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

Project Information

Project Name: Elderly Service Center (PR-CRP-000902)

Responsible Entity: Puerto Rico Department of Housing (PRDOH)

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

State/Local Identifier: Puerto Rico

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Consultant (if applicable): Keyla Pacheco – ACE Environmental INC

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

Project Location: #11 Ferrocarril Street, Lajas, PR 00667
Coordinates 18.04941608, -67.05761236
Cadastre # - 358-032-072-01

Description of the Proposed Project [24 CFR 50.12 & 58.32; 40 CFR 1508.25]**:**
The purpose of this project is to design and construction of a service facility for the elderly residents of the community consisting of a kitchen area, dining room, activity room, workshop room, administrative offices, medical area, social work office, food storage room, miscellaneous storage room, general storage room, bathrooms, shower area, laundry, parking with two street access (Santa Rosa Street and Ferrocarril Street), and recreational area, among others, with approximate dimensions of 1.16 acres, and an emergency generator (or equivalent redundant power source). It will be demolished an abandoned structure (wood & concrete). The project design will comply with regulations and laws for the elderly and/or people with disabilities (ADA Law, etc). Refer to Location Map in Exhibit 1.

Statement of Purpose and Need for the Proposal [40 CFR 1508.9(b)]:
The project was designed to meet the needs of the elderly population in the Municipality of Lajas. The current facilities of the Multiple Service Center for the Elderly can no longer meet the increase in demand for the services it offers. In addition, relocation to the urban area is contemplated to facilitate the access of this population to greater services. This facility will benefit the entire population and communities of Lajas, in particular elderly residents and their relatives responsible for caring their elderly by providing an alternative safe location to stay during daytime meanwhile they accomplish their duties. According to data obtained from the 2020 Census, the population currently is 23,334 people; 63.2% of these are below the poverty level and 17.4% are a population over 65 years of age. When compared to the 2010 Census, the population in this age range increased by 6.5% and the trend is one of continuous increase. Currently, the Municipality of Lajas has a free public transportation service that covers all the neighborhoods of Lajas and provides direct service for this population. This will facilitate access to all citizens, regardless of their location within the Municipality, to receive the services provided by this facility. This project will benefit its inhabitants with the intention of satisfying the need for this type of facilities in the sector in an appropriate and safe manner. The location of the project within the urban area provides elderly citizens with proximity to medical offices, pharmacies, shops, supermarkets, municipal and state agencies as well as parks and recreational areas.

Existing Conditions and Trends [24 CFR 58.40(a)]:
The proposed project site has an approximate area of 1.18 acres and has a concrete and wood abandoned structure. It is a disused and abandoned space that affects the health and safety of the residents of the area. The property is bordered by the Santa Rosa St to the north, a community high school to the east, a church to the south and, a police station and the Ferrocarril St to the west. Therefore, this project renews what is considered a public nuisance.

Funding Information

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

Estimated Total HUD Funded Amount: $5,960,755.90

Estimated Total Project Cost (HUD and non-HUD funds) [24 CFR 58.32(d)]: $5,960,755.90

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

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

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	Compliance Determinations
STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR 50.4 and 58.6		
Airport Hazards 24 CFR Part 51 Subpart D	Yes ☐ No ☒	Requirements of 24 CFR Part 51 Subpart D prohibit incompatible land uses on property within runway protection zones, clear zones, and accident potential zones. Projects require additional review if they are within 2,500 feet of a civil airport or 15,000 feet of a military airport. The project site is not within 15,000 feet of a military airport or 2,500 feet of a civilian airport, nor is it within an airport Runway Protection Zone (RPZ). The closest civil airport to the Project site is Eugenio María de Hostos Airport located 84,300 ft northwest of the project site. The closest military airport is Luis Muñoz Marin Int. Airport is about 387,600 feet northeast from project site. The project is not located within an FAA-designated civilian airport Runway Clear Zone (RCA) or Runway Protection Zone, or within the military Airfield Clear Zone (CZ) or Accident Potential Zone/Approach Protection Zone (APZ). Therefore, the project is in

		compliance with Airport Hazards requirements per 24 CFR Part 51 Subpart D. Refer to Airports Map in Exhibit 2.
Coastal Barrier Resources Coastal Barrier Resources Act, as amended by the Coastal Barrier Improvement Act of 1990 [16 USC 3501]	Yes ☐ No ☒	According to the US Fish and Wildlife Service Coastal Barrier Resources mapping, the project is not located in any coastal barrier resource zone of Puerto Rico. The nearest unit is Unit PR-65P, approximately 26,600 ft south of the project site. Therefore, the project has no potential to impact a CBRS unit and is in compliance with Coastal Barrier Resources Act. Refer to CBRS Map in Exhibit 3.
Flood Insurance Flood Disaster Protection Act of 1973 and National Flood Insurance Reform Act of 1994 [42 USC 4001-4128 and 42 USC 5154a]	Yes ☐ No ☒	The Project site is located in flood zone X unshaded, not in the 100-year Special Flood Hazard Area (SFHA), as indicated on the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) Community Panel Number 72000C1570H, revised on April 19, 2005. All areas within the Commonwealth of Puerto Rico are eligible for NFIP policies. Flood Insurance is required when a project involves repairs, rehabilitation, or construction of an insurable structure in the 100-year floodplain. The proposed project is not within the 100-year floodplain and would not require flood insurance. The project is in compliance with Flood Disaster Protection Act of 1973 and National Flood Insurance Reform Act of 1994 [42 USC 4001-4128 and 42 USC 5154a]. Refer to FIRMette map in Exhibit 4.
STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR 50.4 & 58.5		
Clean Air Clean Air Act, as amended, particularly section 176(c) & (d); 40 CFR Parts 6, 51, 93	Yes ☐ No ☒	The proposed project is located in the municipality of Lajas, which is in attainment status for all criteria pollutants per the EPA list of NAAQS criteria pollutants for all Puerto Rico Municipalities. Municipalities in nonattainment or maintenance areas include Arecibo, Bayamón, Cataño, Guaynabo, Salinas, San Juan, and Toa Baja. This project is in compliance with the Clean Air Act, as amended, particularly section 176(c) & (d); 40 CFR Parts 6, 51, 93. Refer to Exhibit 5 and 5A for Air Quality /Puerto Rico Nonattainment/Maintenance Status.
Coastal Zone Management Coastal Zone Management Act, sections 307(c) & (d)	Yes ☐ No ☒	The project site is located about 3.98 miles (21,014 feet) south from the nearest Coastal Zone Land Boundary. Therefore, the project is in compliance with the Coastal Zone Management Act, sections 307(c) and (d).

		Refer to Coastal Zone map in Exhibit 6.
Contamination and Toxic Substances 24 CFR Part 50.3(i) & 58.5(i)(2)	Yes ☒ No ☐	HUD policy requires the project site and adjacent areas to be free of hazardous materials, contamination, toxic chemicals and gases, and radioactive substances where a hazard could affect health and safety of occupants of the property or conflict with intended use of the property. The project will not involve residents or increase in occupancy of any structure. There would be no increase in risk associated with the proposed project. Because the proposed project would not add sensitive receptors or increase density, the nearby sites of concern are not expected to result in contamination or have adverse impacts. They would not affect the health and safety of the project occupants because there are no occupants resulting from the proposed project. A review of EPA's NEPAssist tool showed there are no records of toxic, hazardous, radioactive substances, or underground storage tanks (USTs) on Project Site. According to the Section 106 document, the current building was constructed circa 1970. A survey for asbestos containing materials (ACMs) and lead-based paints (LBPs) was conducted by Innovate CORP on May 19, 2023. No presence of ACMs was detected in the site. LBP was found at some project accessed components on lead-glazed ceramics some walls. According to PRDRNA Lead regulations, prior to disturbing LBP in a structure, the contaminated surfaces or substrates must be abated or removed. The firm providing the abatement services must be certified by the PRDRNA. The proposed project activities do not include any contaminated materials, nor will there be exposure to contaminated materials or toxins from surrounding sites. Within 3,000 feet of the project site there is one NPDES water discharge facility, four Resource Conservation and Recovery Act (RCRA) Hazardous Waste listings, two gas stations with UST, no Toxics Release Inventory (TRI) listings, no Toxic Substances Control Act (TSCA) listings. USEPA's Superfund, Envirofacts, and Enforcement and Compliance History Online (ECHO) reports were reviewed for more detailed information on statuses of these facilities. PRASA WTP Lajas Filter Plant was identified for a wastewater NPDES permit at 1,240 ft distance southwest of the proposed activity. This site did not report or any EPA formal or informal action for

		the past five years, except a reportable noncompliance from 4th quarter of year 2021 to 2nd quarter of year 2022. The other sites do not have any releases reported or any EPA formal or informal action reported for the last five years in EPA's ECHO Detailed Facility Reports. The proposed project does not involve any residents. With these conditions and the distance, there would not be any impacts to the project site. HUD issued Notice CPD-23-103 on January 11, 2024, regarding Departmental Policy for Addressing Radon in the Environmental Review Process. The Notice intends to clarify that radon must be considered in the Environmental Review analysis for all HUD funded projects. 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 abovementioned reasons, Radon testing is infeasible and impracticable for this property, and no further consideration of Radon is needed for the environmental review. and associated agency correspondence found in Exhibit 7I. Refer to Exhibit 7 for Toxic and Contamination Substance Map, Exhibits 7A to 7I for Toxic and Contamination Substances supporting documents, Exhibit 7J for ACM survey report, Exhibit 7K for LBP survey report, and Exhibit 7L for Memo for Justification for the Infeasibility and Impracticability of Radon Testing.
Endangered Species Endangered Species Act of 1973, particularly section 7; 50 CFR Part 402	Yes ☒ No ☐	Per the Official Species List from the U.S. Fish and Wildlife Service (USFWS) Information for Planning and Consultation (IPaC) website, the Puerto Rican Boa can be found but there are no critical habitats at this location. Project will have no potential to affect species or habitats due to the nature of the activities involved in the project and qualifies under blanket clearance letter approved by USFWS on March 10, 2024.

		If a Puerto Rican Boa is encountered, work will cease until it moves off the site or, failing that, the Puerto Rico Department of Natural and Environmental Resources (PRDNER) Rangers will be notified for safe capture and relocation of the animal, in accordance with the USFW Puerto Rican Boa Conservation Measures guidelines. The project is in compliance with the Endangered Species Act. Refer to Exhibit 8 Critical Habitat Map and 8A for Endangered Species supporting documents.
Explosive and Flammable Hazards 24 CFR Part 51 Subpart C	Yes ☐ No ☒	The proposed Project does not include a hazardous facility that mainly stores, handles, or processes flammable or combustible chemicals such as bulk fuel storage. Planned activities at the project area do not include installation of storage tanks. The scope of the proposed project does not include development, construction, conversion, or rehabilitation activities that would increase residential densities. The project would not introduce new housing. The project will not introduce new residents, employees or clients during the daytime hours who could be exposed to explosive or flammable hazards. A desktop aerial photograph review revealed no large aboveground storage tanks (AST) within 1 mile of the project site. Therefore, the project is following the Explosive and Flammable Hazards requirements. Refer to Exhibit 9 for Explosive and Flammable Hazards Map.
Farmlands Protection Farmland Protection Policy Act of 1981, particularly sections 1504(b) and 1541; 7 CFR Part 658	Yes ☐ No ☒	The project does not include any activities that could convert agricultural land to nonagricultural use. The proposed project is located in an already developed urban parcel. According to the U.S. Department of Agriculture, Natural Resources Conservation Service, Web Soil Survey, the project site is not situated on farmland soils and is not protected under the Farmland Protection Policy Act. Therefore, this topic complies with the regulation. Refer to Exhibit 10 for Farmland Protection Map.
Floodplain Management Executive Order 11988, particularly section 2(a); 24 CFR Part 55	Yes ☐ No ☒	The Project site is not in the 100-year Special Flood Hazard Area (SFHA), as indicated on the Advisory Base Flood Elevation map. The project site is within the Zone X (Unshaded) area of minimal flood hazard. In addition, the proposed project is not located in a Federal Flood Risk Management Standard (FFRMS) floodplain. The presence of the location in a FFRMS floodplain was assessed using the 0.2-Percent-Annual-Chance (500-

		Year) Flood Approach (0.2 PFA) as established by Executive Order 11988, amended by Executive Order 13690. The project site is not within the 0.2 percent chance of flood, nor is there any hydrologic or hydraulic data to indicate the likelihood of flooding at the project site. The project is not considered a critical action under 24 CFR Part 55. The Project is in compliance with Executive Order 11988, as amended by EO 13690, particularly section 2(a); 24 CFR Part 55. No formal compliance steps or mitigation are required. See Base Flood Elevations (ABFE) map included in Exhibit 11.
Historic Preservation National Historic Preservation Act of 1966, particularly sections 106 and 110; 36 CFR Part 800	Yes ☒ No ☐	Consultation with the SHPO regarding the Department of Housing of Puerto Rico (PRDOH) Program was initiated on April 11, 2024, with a letter indicating that PRDOH contracted Horne Federal LLC to provide environmental registry review services, among others, that will support the objectives of the agenda for both CDBG-DR and CDBG -MIT Programs. On March 17, 2025, SHPO concluded that implementation of the undertaking will have no adverse effect on historic properties conditioned to an archaeological monitoring during all ground disturbing activities. On April 10, 2025, SHPO concurred with the Archaeology Monitoring Work Plan. Therefore, the Project is in compliance with the National Historic Preservation Act of 1966, particularly sections 106 and 110; 36 CFR Part 800. Refer to SHPO conditioned determination in Exhibit 12.
Noise Abatement and Control Noise Control Act of 1972, as amended by the Quiet Communities Act of 1978; 24 CFR Part 51 Subpart B	Yes ☐ No ☒	The proposed project does not involve establishment of new residences, an increase in residents, or introduction of other noise sensitive uses. The project does not require further evaluation under HUD's noise regulation. The noise that will be produced during construction is generated by the operation of construction equipment. All equipment and machinery will have noise dampers maintained in accordance with manufacturer's recommendations to control noise generation. Construction activities will be carried out during the day and have minimal impacts on the neighboring community. The noise levels attributable to construction activities will be temporary in nature and is not expected to exceed 65 dBA.

		Therefore, the project complies with Noise Abatement and Control requirements.
Sole Source Aquifers Safe Drinking Water Act of 1974, as amended, particularly section 1424(e); 40 CFR Part 149	Yes ☐ No ☒	The project is not located within a U.S. EPA-designated sole source aquifer watershed area (including stream flow source areas). According to the information published by the United States Environmental Protection Agency (USEPA) in the Interactive Map of Single Source Aquifers (SSA), there are no Single Source Aquifers in Puerto Rico with the closest being in Florida, USA that is about 5,221,000 ft from the proposed activity. Therefore, the project complies with this regulation. See Sole Source Aquifers Map in Exhibit 13.
Wetlands Protection Executive Order 11990, particularly sections 2 and 5	Yes ☐ No ☒	According to the National Wetlands Inventory (NWI) database, the project area is not within or adjacent to wetlands. Therefore, the project is in compliance with Wetlands Protection requirements. See Wetlands Map in Exhibit 14.
Wild and Scenic Rivers Wild and Scenic Rivers Act of 1968, particularly section 7(b) and (c)	Yes ☐ No ☒	Puerto Rico has three Wild and Scenic Rivers, named La Mina, Icacos, and Mameyes, which are located in the east side of Puerto Rico. The proposed project locates approximately 446,200 ft southwest of the scenic rivers. There would be no impact to Wild and Scenic Rivers This project is in compliance with the Wild and Scenic Rivers Act. See Wild and Scenic Rivers Map in Exhibit 15.
ENVIRONMENTAL JUSTICE		
Environmental Justice Executive Order 12898	Yes ☐ No ☒	On January 21, 2025, President Donald Trump issued the Executive Order 14173, titled "Ending Illegal Discrimination and Restoring Merit-Based Opportunity", which revoked Executive Order 12898 and eliminated federal mandates requiring agencies to assess environmental justice impacts. Consequently, there is no longer a federal requirement to address environmental justice concerns in the environmental compliance review process.

Environmental Assessment Factors [24 CFR 58.40; Ref. 40 CFR 1508.8 &1508.27] Recorded below is the qualitative and quantitative significance of the effects of the proposal on the character, features, and resources of the project area. Each factor has been evaluated and documented, as appropriate and in proportion to its

relevance to the proposed action. Verifiable source documentation has been provided and described in support of each determination, as appropriate. Credible, traceable, and supportive source documentation for each authority has been provided. Where applicable, the necessary reviews or consultations have been completed and applicable permits of approvals have been obtained or noted. Citations, dates/names/titles of contacts, and page references are clear. Additional documentation is attached, as appropriate. **All conditions, attenuation or mitigation measures have been clearly identified.**

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

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

Environmental Assessment Factor	Impact Code	Impact Evaluation
LAND DEVELOPMENT		
Conformance with Plans / Compatible Land Use and Zoning / Scale and Urban Design	2	The Project area is designated as Ul "Urban Land." The Project would improve an existing public use area. The Project-related activities would occur within existing developed area and consist of repairs and enhancements of existing uses. All project aesthetics will conform to the surrounding area. No changes in zoning, easements, or land use are anticipated.
Soil Suitability/ Slope/ Erosion/ Drainage/ Storm Water Runoff	2	The proposed project includes excavations. There would be no permanent changes to the site that would affect slope, drainage, or stormwater runoff. There are no indications of ground subsidence, major seismic activity, erosion, or any other unusual conditions at the site that would dictate that there could be soil problems, foundation cracking, or settling. The project design will comply with current codes related to erosion control and stormwater runoff. During construction activities, and in compliance with the USEPA NPDES Construction General Permit and the local stormwater runoff control regulations, the applicant will implement a Stormwater Pollution Prevention Plan that will include structural and non-structural BMPs to keep sediment in place (erosion control) and to capture any sediment that is moved by stormwater before it leaves the site (sediment control).
Hazards and Nuisances including Site Safety and Noise	2	The project site is in an urbanized area. The project would involve demolition, excavation, and construction. The hazards typically associated with construction activities would be present, temporary site safety issues and noise. The proposed project, once constructed, would not create additional hazards or nuisances, or create any new site safety or noise issues.

		Noise impacts would be addressed by conducting demolition and construction activities in accordance with local noise regulations and proper construction equipment maintenance. Standard BMPs, such as construction fencing, would be applied to protect the public from typical construction hazards. BMPs and signage would warn and protect the public during construction activities.

Environmental Assessment Factor	Impact Code	Impact Evaluation
SOCIOECONOMIC		
Employment and Income Patterns	1	It is expected that the impacts of the proposed action on regional employment would be positive. The investment for project construction of a new facility would induce direct and indirect jobs because of the proposed project. Regional enterprises would participate in a significant part of this investment, which combined with other related factors, would promote an employment and income increase and consequently are expected to create positive economic growth for the region. This is of particular importance considering the high unemployment rate of many of the municipalities of the region. Hence, the proposed project will positively impact long-term employment or income patterns.
Demographic Character Changes, Displacement	2	The proposed project would not result in demographic character changes or displacement. Due to the nature of the project area, no relocations or demolition of residential structures or businesses would occur as part of this project.
Environmental Justice		On January 21, 2025, President Donald Trump issued the Executive Order 14173, titled "Ending Illegal Discrimination and Restoring Merit-Based Opportunity", which revoked Executive Order 12898 and eliminated federal mandates requiring agencies to assess environmental justice impacts. Consequently, there is no longer a federal requirement to address environmental justice concerns in the environmental compliance review process.

Environmental Assessment Factor	Impact Code	Impact Evaluation
COMMUNITY FACILITIES AND SERVICES		
Educational and Cultural Facilities	2	The project would not result in any change to regional or local area educational and cultural facilities or increase demand for them.
Commercial Facilities	2	The project would not increase demand for commercial facilities.
Health Care and Social Services	1	The project will provide social services facilities to benefit the elderly residents within the community.

Solid Waste Disposal / Recycling	2	The activities would generate solid waste (i.e., construction debris). Project-wide salvaging/recycling of materials would occur as determined feasible with other program requirements. All other materials would be taken to the appropriate landfills. A solid waste management plan would be developed and implemented to ensure that all potentially hazardous solid waste is handled properly, and that daily capacities of landfills and other solid waste facilities are not exceeded. During the operation of the proposed activity will have available trash bins rand recycling bins at different locations that will be collected by the municipality service.
Waste Water / Sanitary Sewers	2	The project would include relocation of bathroom facilities. No new connections to municipal sanitary sewer system would be needed. The proposed project would not affect community wastewater infrastructure and would not significantly increase the demand for service within the community.
Water Supply	2	The project would include construction of a new building so a new connection to municipal water supply would be needed. The proposed project would not significantly affect water infrastructure and increase demand for service. Existing on-site and nearby water connections would be used for construction activities.
Public Safety - Police, Fire and Emergency Medical	2	The proposed project would not increase the area population and so demand for police, fire, and emergency medical services in the community would not increase. Services at the project site would be provided by the existing community police, fire, and emergency medical services.
Parks, Open Space and Recreation	1	The proposed project would add a new recreational space for elderly residents within the community.
Transportation and Accessibility	2	Construction of the proposed project may result in minor temporary traffic increases and access issues during construction due to material deliveries or use of equipment. Emergency services would be notified of traffic control changes ahead of time, and access by emergency vehicles always would be allowed within the work zone. There would be no long-term impacts. Long-term access to the project would remain the same.

Environmental Assessment Factor	Impact Code	Impact Evaluation
NATURAL FEATURES		
Unique Natural Features, Water Resources	2	No stream or wetland would be affected by the changes to the proposed activity.
Vegetation, Wildlife	2	The proposed project activities would be within an existing urban public use/recreation area. The project would not impact native vegetation.

		Additionally, the proposed project would not impact wildlife or wildlife habitat.
Other Factors	2	No other factors were identified that would be affected by the proposed project.

Environmental Assessment Factor	Impact Code	Impact Evaluation
CLIMATE AND ENERGY		
Climate Change Impacts		On January 20, 2025, President Donald Trump issued the Executive Order 14148, titled "Initial Rescissions of Harmful Executive Orders and Actions", which revoked Executive Order 14008 and eliminated federal mandates requiring agencies to assess climate change impacts. Consequently, there is no longer a federal requirement to address climate change concerns in the environmental compliance review process.
Energy Efficiency	2	The project would not result in major change in the area's energy demand. Regional energy use would not significantly change.

Field Inspection and Studies Performed:

An Asbestos Containing Materials survey and a Lead-Based Paint survey were conducted on June 23, 2022. See Exhibits 7J and 7K. Environmental aspects pursuant to Part 58 of Title 24 of the Code of Federal Regulations regarding the proposed action have been summarized in the regulatory Environmental Assessment statutory form.

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

- Puerto Rico State Historic Preservation Office
- FAA, National Plan for Integrated Airport Systems: www.faa.gov/airports/planning_capacity/npias/reports/NPIAS-Report-2017-2021-Appendix- B-Part6.pdf
- John H. Chafee Coastal Barrier Resources System, Puerto Rico map. www.fws.gov/CBRA/Maps/Locator/PR.pdf
- National Wild and Scenic Rivers System: www.rivers.gov/puerto-rico.php
- Puerto Rico Community Development Block Grant Disaster Recovery Action Plan, July 2018. www.cdbg-dr.pr.gov/en/action-plan/
- Programmatic Agreement among the Federal Emergency Management Agency, the Puerto Rico State Historic Preservation Office and the Central Office for Recovery, Reconstruction and Resilience – amended to include the Puerto Rico Department of Housing.

- US Environmental Protection Agency, National Ambient Air Quality Standards, Nonattainment Areas for Criteria Pollutants (Green Book): www3.epa.gov/airquality/greenbook/anayo_pr.html
- US EPA, Environmental Topics, Air Topics: www.epa.gov/environmental-topics/air-topics
- US Fish and Wildlife Service, Environmental Conservation Online System: https://ecos.fws.gov/ecp/report/species-listings-bystate?stateAbbrev=PR&stateName=Puerto%20Rico&statusCategory=Listed
- Federal Emergency Management Agency, Flood Mapping Service: https://msc.fema.gov/portal/home (compilation of numerous maps)
- US Fish and Wildlife Service, National Wetlands Inventory: www.fws.gov/wetlands/data/mapper.html (compilation of numerous maps)
- Puerto Rico Coastal Zone Management Program Plan, September 2009.
- US EPA, Sole Source Aquifers. Esri HERE, Garmin, NOAA, USGS, EPA.
- US Geological Survey, Data Release of May Showing Concentration of Landslides Caused by Hurricane Maria, www.sciencebase.gov/catalog/item/59de6459e4b05fe04ccd39d8

List of Permits Obtained:

None.

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

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

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

In accordance with 24 CFR 58.32 (Aggregation), there are no cumulative impacts associated with the proposed project. The repair and improvements to the existing public spaces/recreation area would not change the land use of the spaces or the adjoining parcels. A slight increase in use of the spaces would result from their restoration and improvement.

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

Location and alternate reconstruction designs were considered as alternatives to the current action alternative. The location of this activity to an alternate location would not provide the central location desired as a gathering facility for the elderly residents of the community. As the action to demolish and construct a new facility within the existing footprint, it was evaluated to include the renovation of existing the building and was not considered due to severity of damages. Alternatives to the design were evaluated. The design chosen will meet the needs of the elderly residents of the municipality considering best engineering and economic practices.

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

Under the No Action Alternative, the applicant would not receive federal funding for the project, the proposed project will not be implemented, and the site will continue to be unused and not be improved. The Lajas communities would continue to be deprived of an adequate elderly service center that meets needs, safety, and accessibility requirements as proposed in this project. Therefore, the no action alternative does not meet the purpose and need of the Project.

Summary of Findings and Conclusions:

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

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
Endangered Species	Conservation measures for the Puerto Rican Boa need to be implemented if the Boa is encountered during construction.
Solid Waste Disposal / Recycling	Salvaging/recycling of materials shall be as determined feasible with other program requirements. A solid waste management plan shall be developed and implemented.
Contamination and Toxic Substances, 24 CFR Part 50.3(i) & 58.5(i)(2)	ACM and LBP studies were conducted to the project site. LBP abatement will be performed to some elements by a DNRE certified contractor prior to any work at the project site. and will be disposed at an DNRE/EPA approved final disposal facility. According to DRNA lead regulation , prior to the demolishing of a structure containing lead-based paint, the contaminated surfaces or substrates must be abated or removed. The waste generated has to be characterized to determine if the waste generated is hazardous or non-hazardous waste. The firm providing the abatement services must be certified as an

	abatement firm by DRNA. Workers conducting abatement must be trained and certified as abatement must be trained and certified as abatement workers by a training provider accredited by the DRNA.
Ground disturbance / Soil Suitability / Slope/ Erosion / Drainage / Storm Water Runoff	The project design will comply with current federal and state codes related to ground disturbance, erosion control and stormwater runoff. During construction activities, and in compliance with the USEPA NPDES Construction General Permit and the local stormwater runoff control regulations, the applicant will implement a Stormwater Pollution Prevention Plan that will include structural and non-structural BMPs to keep sediment in place (erosion control) and to capture any sediment that is moved by stormwater before it leaves the site (sediment control). There would be no significant permanent changes to the site that would affect drainage, or stormwater runoff.
Historic Preservation	An Archaeological Monitoring Plan prepared and concurred by PRSHPO. The project would include archaeological monitoring of any ground disturbing activities and excavations, following the direction of the PRSHPO-approved monitoring plan. PRSHPO would be notified of the archaeological monitoring start date 48 hours prior to the initiation of work.
Hazards and Nuisances including Site Safety and Noise	Demolition and construction activities shall be conducted in accordance with local noise regulations. Construction equipment shall be maintained to ensure compliance with local noise regulations. Standard BMPs, such as construction fencing and signage, shall be applied would be applied to warn and protect the public during construction activities

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: Sol V Rosa Date: 11APR2025

Name/Title/Organization: Sol V Rosa - Tetra Tech Inc.

Certifying Officer Signature: _____ Date: 4/21/2025

Name/Title: Priscilla M. Toro Rivera/ Environmental 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).

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Exhibit 5A. Air Quality / Puerto Rico Nonattainment/Maintenance Status

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Exhibit 12. Historic Preservation

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Exhibit 15. Wild and Scenic Rivers Map

Exhibit 16. 60%-Design Drawings

Exhibit 1 Location Map

PR-CRP-000902 Elderly Service Center
#11 Ferrocarril Street, Lajas, PR 00667
Coordinates 18.04941608, -67.05761236

Legend:

- Parcels
- Project Site

N

1:2,257

0 100 200 400 ft

0 30 60 120 m

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

Junta de Planificación, FEMA

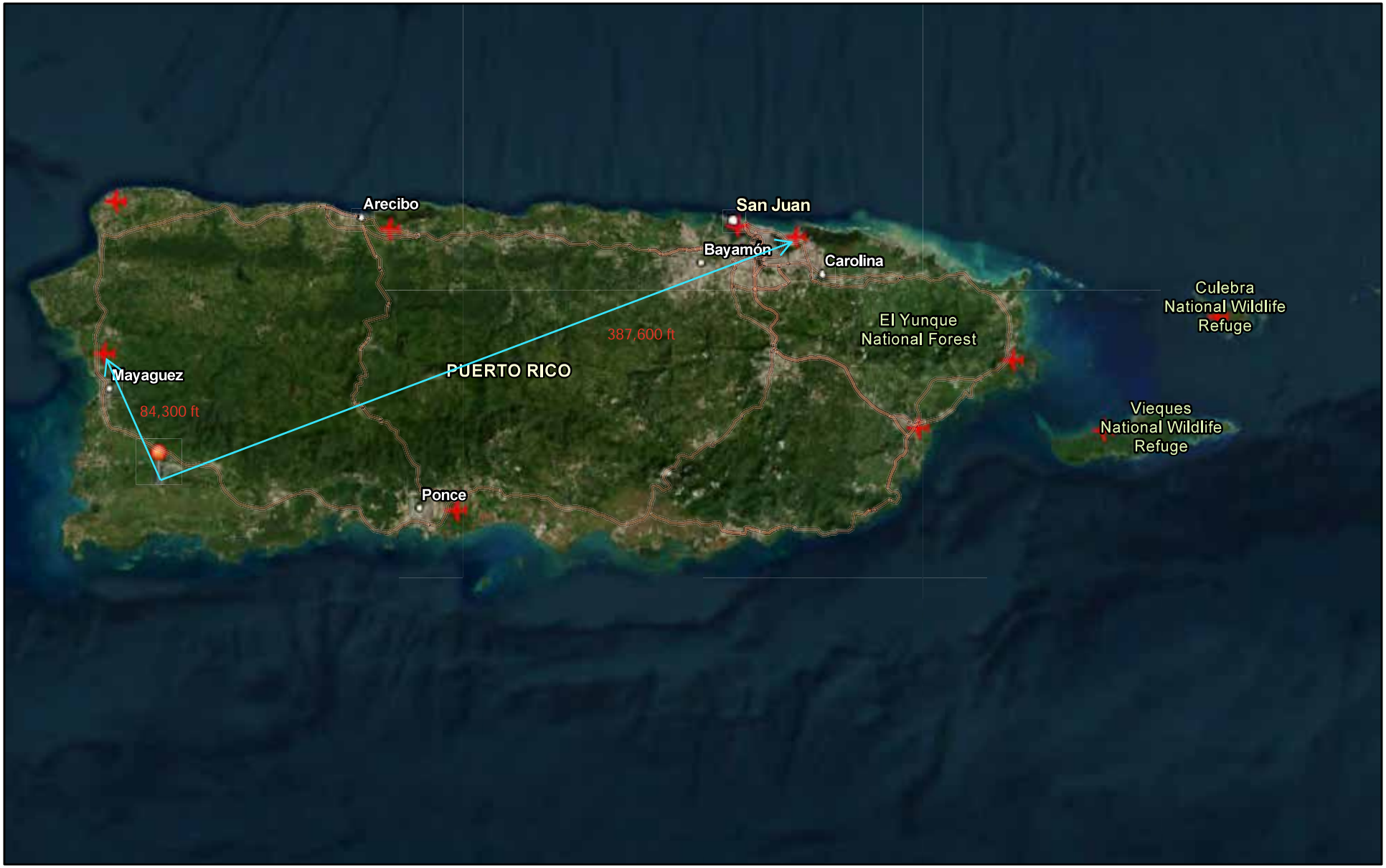
PRPB; FEMA | Junta de Planificación. Programa de Sistema de Información Geográfica |

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

2/26/2025

Exhibit 2 Airports Map

PR-CRP-000902 Elderly Service Center
#11 Ferrocarril Street, Lajas, PR 00667
Coordinates 18.04941608, -67.05761236



Legend:

Project Site

Airport Points

N

1:1,000,000

0 5 10 20 mi

0 12.5 25 50 km

Earthstar Geographics, Esri, TomTom, Garmin, Foursquare, SafeGraph, FAO, METI/NASA, USGS, NPS, USFWS, EPA OEI

February 25, 2025

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

U.S. Fish and Wildlife Service
Coastal Barrier Resources System

Exhibit 3
PR-CRP-000902 Elderly Service Center #11
Ferrocarril Street, Lajas, PR 00667 Coordinates
18.04941608, -67.05761236

Legend:

- CBRS Buffer Zone

CBRS Units

- Otherwise Protected Area
- System Unit
- Project Site

N

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

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

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

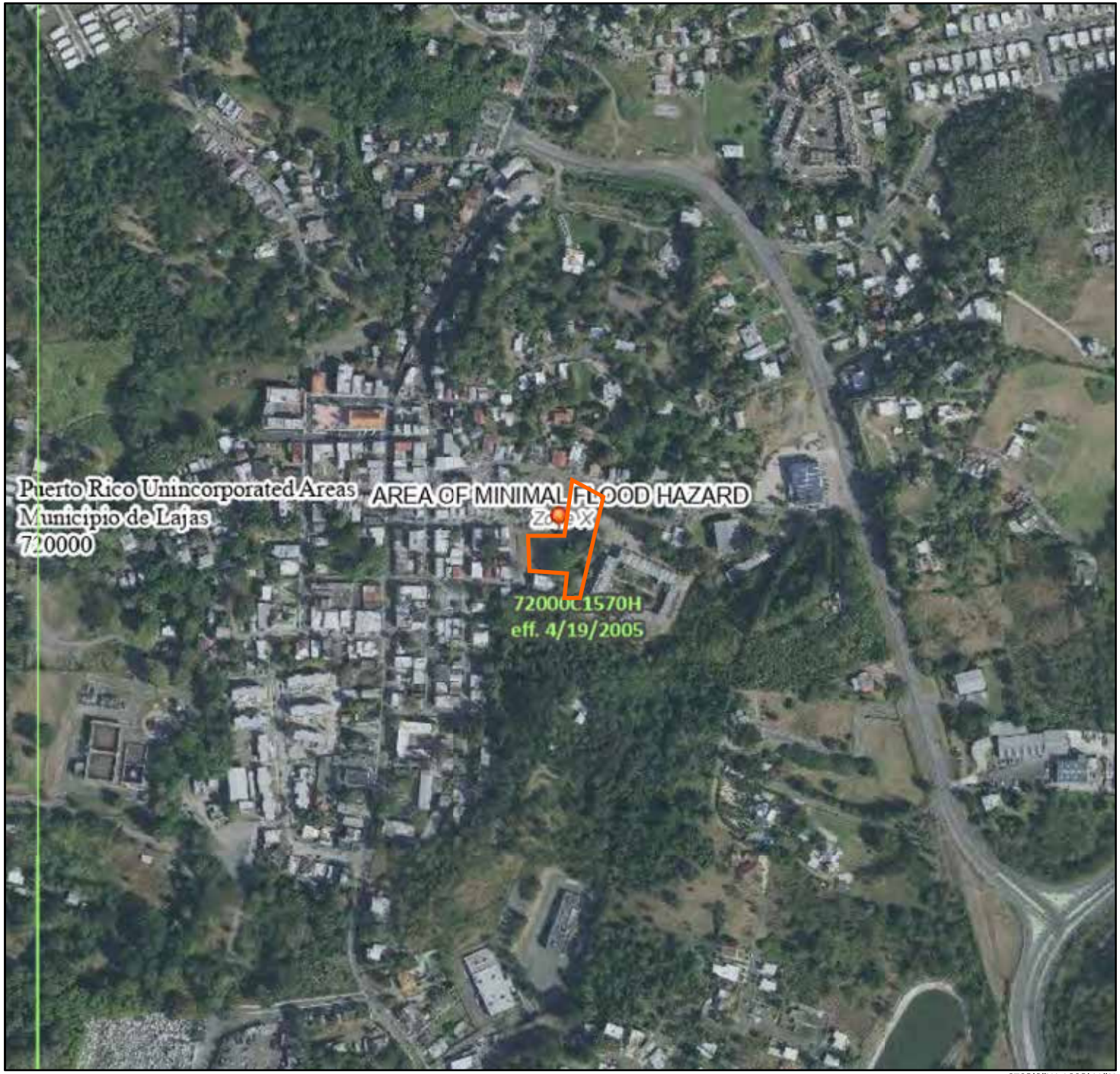
Exhibit 4 Flood Insurance Map

National Flood Hazard Layer FIRMette

FEMA

PR-CRP-000902 Elderly Service Center
#11 Ferrocarril Street, Lajas, PR 00667
Coordinates 18.04941608, -67.05761236

67°3'46"W 18°3'15"N



67°3'9"W 18°2'41"N

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

1:6,000

https://msc.fema.gov/portal/search?AddressQuery=-66.93844%2C%2018.47210

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.

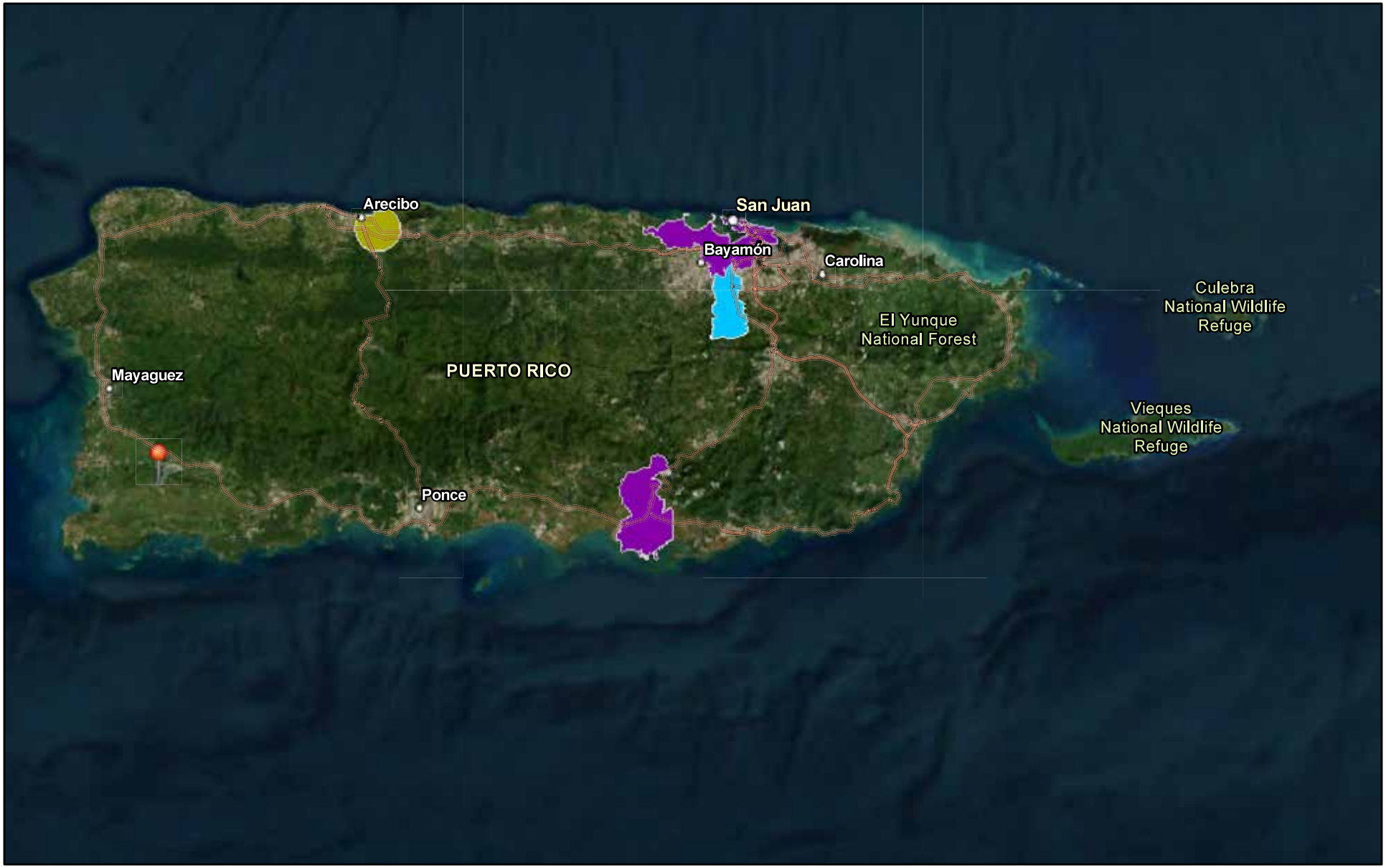
Project Site

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 6/26/2023 at 9:42 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

Exhibit 5 Air Quality / Puerto Rico Nonattainment/Maintenance Status Map
PR-CRP-000902 Elderly Service Center
#11 Ferrocarril Street, Lajas, PR 00667
Coordinates 18.04941608, -67.05761236



Legend:

Project Site

Lead (2008 standard)

Nonattainment

SO2 1-hr (2010 standard)

Nonattainment

PM10 (1987 standard)

Maintenance

N

1:1,000,000

0 5 10 20 mi

0 12.5 25 50 km

Earthstar Geographics, Esri, TomTom, Garmin, Foursquare, SafeGraph, FAO, METI/NASA, USGS, NPS, USFWS, U.S. EPA Office of Air and Radiation

February 26, 2025

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

EPA United States Environmental Protection Agency

Green Book

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

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

Data is current as of January 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 $\mu g/m^3$) is revoked in attainment and maintenance areas for that NAAQS. For additional information see the PM-2.5 NAAQS SIP Requirements Final Rule, effective October 24, 2016. (81 FR 58009)

Change the State:
PUERTO RICO GO

Important Notes

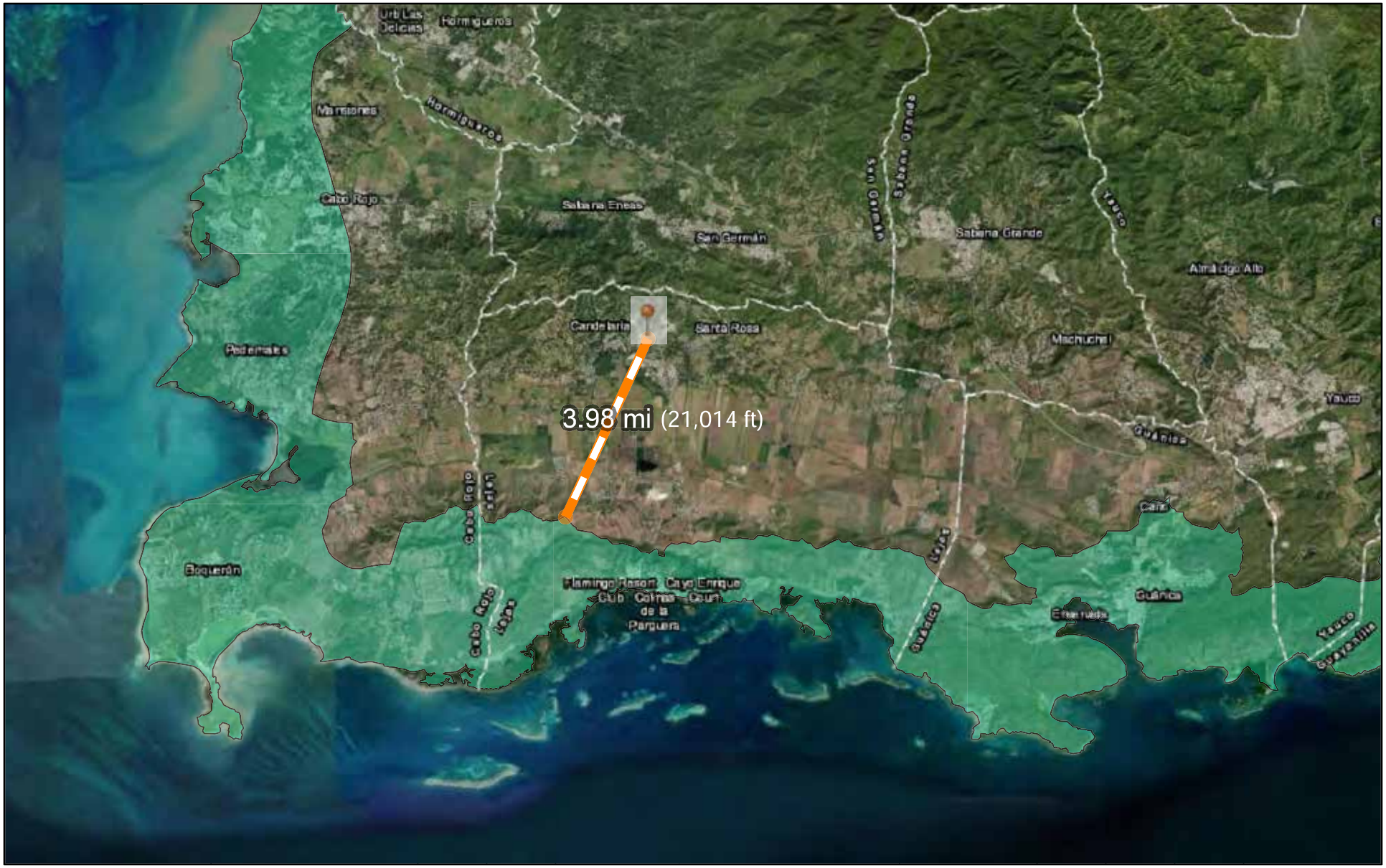
Download National Dataset: dbf | xls

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

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

Exhibit 6 Coastal Zone Management Map

PR-CRP-000902 Elderly Service Center
#11 Ferrocarril Street, Lajas, PR 00667
Coordinates 18.04941608, -67.05761236



Legend:

Coastal Zone Land Boundary

Project Site

1:186,988

0 1.5 3 6 mi

0 2.5 5 10 km

Esri, HERE, Garmin, Earthstar Geographics

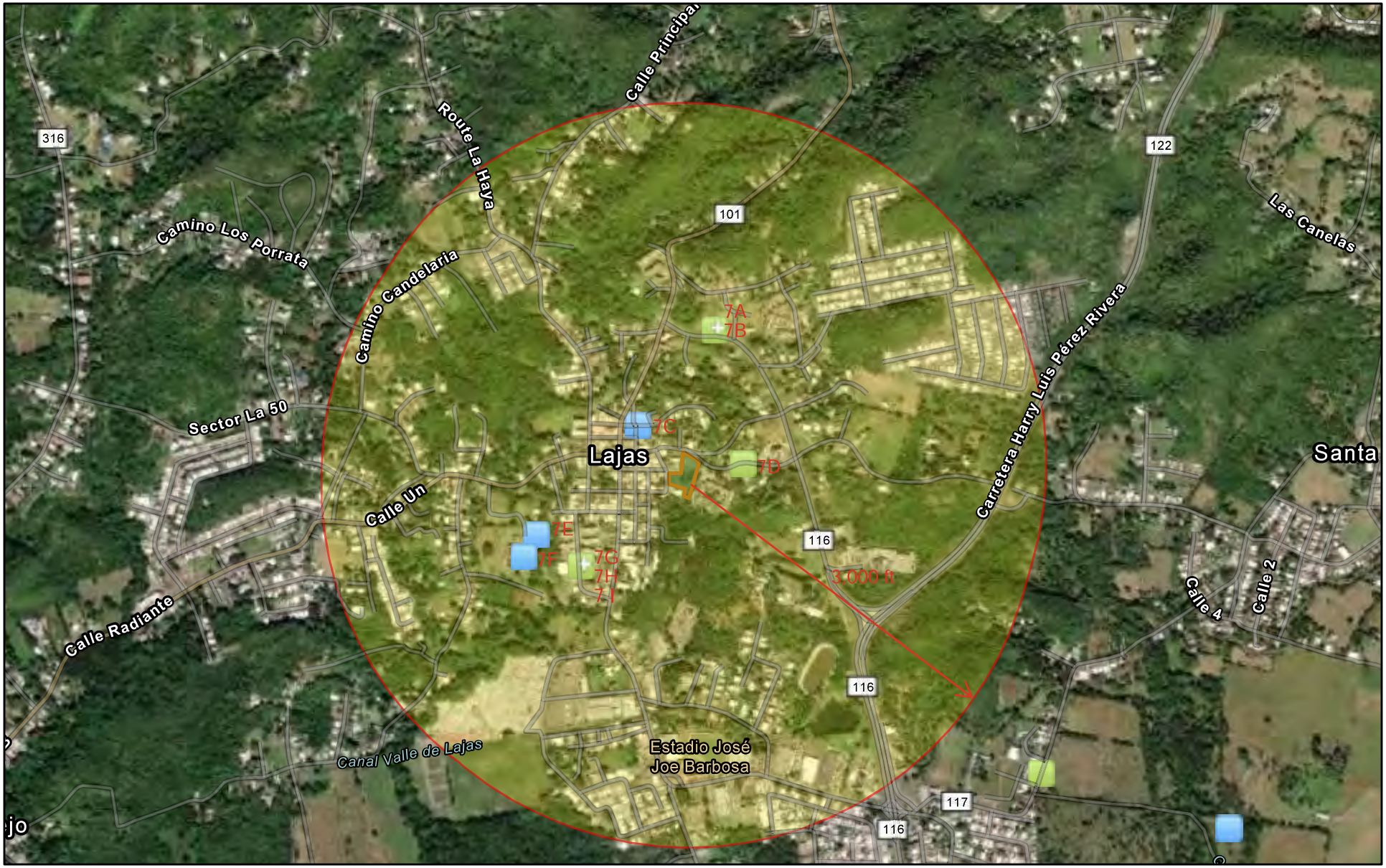
2/27/2025

SVR / Tetratech

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

Exhibit 7 Toxic and Contamination Substances Map

PR-CRP-000902 Elderly Service Center #11
Ferrocarril Street, Lajas, PR 00667
Coordinates 18.04941608, -67.05761236



Legend:

- Water Dischargers (NPDES)
- Hazardous Waste (RCRAInfo)
- Hazardous Waste (RCRAInfo)
- Project Buffer
- Project Site

N

1:15,000

0 0.1 0.2 0.4 mi

0 0.17 0.35 0.7 km

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

February 27, 2025 SVR - Tetratech

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

Exhibit 7A

Detailed Facility Report

Facility Summary

ESSO STANDARD OIL CO - PR DO-406

PR-116 KM 14.0, LAJAS, PR 00667

FRS (Facility Registry Service) ID: 110009437715

EPA Region: 02

Latitude: 18.052853

Longitude: -67.056854

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): Active VSQG, (PRR000008326)

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		110009437715					N	18.052853	-67.056854
RCRAInfo	RCRA	PRR000008326	VSQG	Active (H)			N	18.052853	-67.056854

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110009437715	ESSO STANDARD OIL CO - PR DO-406	PR-116 KM 14.0, LAJAS, PR 00667	Lajas Municipio
RCRAInfo	RCRA	PRR000008326	ESSO STANDARD OIL CO - PR DO-406	CARR 116 KM 14.0, LAJAS, PR 00667	Lajas 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	PRR000008326	No	02/22/2025	0	02/21/2025

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
RCRA (Source ID: PRR000008326)			04/01-06/30/22	07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01-03/31/24	04/01-06/30/24	07/01-09/30/24	10/01-12/31/24
	Facility-Level Status		No Violation Identified	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	5,215
Population Density	1,671/sq.mi.
Housing Units in Area	2,604
Percent People of Color	99%
Households in Area	1,864
Households on Public Assistance	99
Persons With Low Income	3,972
Percent With Low Income	76%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.052853
Center Longitude	-67.056854
Total Area	3.121 sq.mi.
Land Area	100%
Water Area	0%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than $15,000	639 (34.35%)
$15,000 - $25,000	377 (20.27%)
$25,000 - $50,000	525 (28.23%)
$50,000 - $75,000	197 (10.59%)
Greater than $75,000	122 (6.56%)

Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Children 5 years and younger	134 (3%)
Minors 17 years and younger	715 (14%)
Adults 18 years and older	4,497 (86%)
Seniors 65 years and older	1,216 (23%)

Race Breakdown (ACS (American Community Survey)) - Persons (%)	
White	2,389 (46%)
African-American	140 (3%)
Hispanic-Origin	5,115 (98%)
Asian	0 (0%)
Hawaiian/Pacific Islander	0 (0%)
American Indian	0 (0%)
Other/Multiracial	2,111 (40%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	453 (11.43%)
9th through 12th Grade	332 (8.38%)
High School Diploma	957 (24.15%)
Some College/2-year	499 (12.59%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	993 (25.06%)

Exhibit 7B

Detailed Facility Report

Facility Summary

ESSO STANDARD OIL CO - PR DO-410

PR-116 KM 2.9, LAJAS, PR 00667

FRS (Facility Registry Service) ID: 110004893287

EPA Region: 02

Latitude: 18.052853

Longitude: -67.056854

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, (PRR000007054)

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		110004893287					N	18.052853	-67.056854
RCRAInfo	RCRA	PRR000007054	Other	Inactive ( )			N	18.052853	-67.056854

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110004893287	ESSO STANDARD OIL CO - PR DO-410	PR-116 KM 2.9, LAJAS, PR 00667	Lajas Municipio
RCRAInfo	RCRA	PRR000007054	ESSO STANDARD OIL CO - PR DO-410	CARR 116 KM 2.9, LAJAS, PR 00667	Lajas 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	PRR000007054	No	02/22/2025	0	02/21/2025

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
RCRA (Source ID: PRR000007054)			04/01-06/30/22	07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01-03/31/24	04/01-06/30/24	07/01-09/30/24	10/01-12/31/24
	Facility-Level Status		No Violation Identified	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	5,215
Population Density	1,671/sq.mi.
Housing Units in Area	2,604
Percent People of Color	99%
Households in Area	1,864
Households on Public Assistance	99
Persons With Low Income	3,972
Percent With Low Income	76%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.052853
Center Longitude	-67.056854
Total Area	3.121 sq.mi.
Land Area	100%
Water Area	0%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than $15,000	639 (34.35%)
$15,000 - $25,000	377 (20.27%)
$25,000 - $50,000	525 (28.23%)
$50,000 - $75,000	197 (10.59%)
Greater than $75,000	122 (6.56%)

Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Children 5 years and younger	134 (3%)
Minors 17 years and younger	715 (14%)
Adults 18 years and older	4,497 (86%)
Seniors 65 years and older	1,216 (23%)

Race Breakdown (ACS (American Community Survey)) - Persons (%)	
White	2,389 (46%)
African-American	140 (3%)
Hispanic-Origin	5,115 (98%)
Asian	0 (0%)
Hawaiian/Pacific Islander	0 (0%)
American Indian	0 (0%)
Other/Multiracial	2,111 (40%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	453 (11.43%)
9th through 12th Grade	332 (8.38%)
High School Diploma	957 (24.15%)
Some College/2-year	499 (12.59%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	993 (25.06%)

Exhibit 7C

Detailed Facility Report

Facility Summary

LAJAS

NO. 5 VICTORIA STREET, LAJAS, PR 00667

FRS (Facility Registry Service) ID: 110054107765

EPA Region: 02

Latitude: 18.050597

Longitude: -67.05877

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	08/29/2012
Compliance Status	No Violation Identified
Qtrs in Noncompliance (of 12)	0
Qtrs with Significant Violation	0
Informal Enforcement Actions (5 years)	--
Formal Enforcement Actions (5 years)	--
Penalties from Formal Enforcement Actions (5 years)	--
EPA Cases (5 years)	--
Penalties from EPA Cases (5 years)	--

Regulatory Information

Clean Air Act (CAA): No Information

Clean Water Act (CWA): Non-Major, Permit Expired (PRR040065)

Resource Conservation and Recovery Act (RCRA): No Information

Safe Drinking Water Act (SDWA): No Information

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): No Information

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

Go To Enforcement/Compliance Details

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

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110054107765					N	18.050597	-67.05877
ICIS-NPDES	CWA	PRR040065	Non-Major: General Permit Covered Facility	Expired	Urban Stormwater (Small MS4)	06/30/2021	N	18.050597	-67.05877

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110054107765	LAJAS	NO. 5 VICTORIA STREET, LAJAS, PR 00667	

System	Statute	Identifier	Facility Name	Facility Address	Facility County
ICIS-NPDES	CWA	PRR040065	LAJAS	NO. 5 VICTORIA STREET, LAJAS, PR 00667	Lajas 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 Industrial Effluent Guidelines

Identifier	Effluent Guideline (40 CFR Part)	Effluent Guideline Description

No data records returned

Facility Tribe Information

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

No data records returned

Enforcement and Compliance

Compliance Monitoring History

Last 5 Years

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

No data records returned

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

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
CWA	PRR040065	No	09/30/2024	0	02/21/2025

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
CWA (Source ID: PRR040065)		10/01-12/31/21	01/01-03/31/22	04/01-06/30/22	07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01-03/31/24	04/01-06/30/24
	Facility-Level Status	No Violation Identified	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
	Quarterly Noncompliance Report History											

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?
210100040104	Eastern Valle de Lajas	--	No	No	--	Yes

Assessed Waters From Latest State Submission (ATTAINS)

State	Report Cycle	Assessment Unit ID	Assessment Unit Name	Water Condition	Cause Groups Impaired	Drinking Water Use	Ecological Use	Fish Consumption Use	Recreation Use	Other Use
PR	2022	PRSR69A1	RIO LOCO	Impaired - 303(d) Listed - With Restoration Plan	ORGANIC ENRICHMENT/OXYGEN DEPLETION | PATHOGENS | TEMPERATURE | TURBIDITY	Fully 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

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	5,423
Population Density	1,738/sq.mi.
Housing Units in Area	2,722
Percent People of Color	99%
Households in Area	1,957
Households on Public Assistance	106
Persons With Low Income	4,169
Percent With Low Income	77%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.050597
Center Longitude	-67.05877
Total Area	3.121 sq.mi.
Land Area	100%
Water Area	0%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than $15,000	704 (35.96%)
$15,000 - $25,000	390 (19.92%)
$25,000 - $50,000	561 (28.65%)
$50,000 - $75,000	185 (9.45%)
Greater than $75,000	118 (6.03%)

Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Children 5 years and younger	124 (2%)
Minors 17 years and younger	759 (14%)
Adults 18 years and older	4,668 (86%)
Seniors 65 years and older	1,271 (23%)

Race Breakdown (ACS (American Community Survey)) - Persons (%)	
White	2,457 (45%)
African-American	165 (3%)
Hispanic-Origin	5,333 (98%)
Asian	0 (0%)
Hawaiian/Pacific Islander	0 (0%)
American Indian	0 (0%)
Other/Multiracial	2,193 (40%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	466 (11.36%)
9th through 12th Grade	354 (8.63%)
High School Diploma	1,040 (25.35%)
Some College/2-year	527 (12.84%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	1,008 (24.57%)

EXHIBIT 7D

Detailed Facility Report

Facility Summary

DEPT OF ED - LEONIDES MORALES

CALLE SANTA ROSA 20, LAJAS, PR 00667

FRS (Facility Registry Service) ID: 110004887757

EPA Region: 02

Latitude: 18.04969

Longitude: -67.05615

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): Active VSQG, (PR0000011478)

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		110004887757					N	18.04969	-67.05615
RCRAInfo	RCRA	PR0000011478	VSQG	Active (H)			N	18.050058	-67.058154

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110004887757	DEPT OF ED - LEONIDES MORALES	CALLE SANTA ROSA 20, LAJAS, PR 00667	Lajas Municipio
RCRAInfo	RCRA	PR0000011478	DEPT OF ED - LEONIDES MORALES	CALLE SANTA ROSA 20, LAJAS, PR 00667	Lajas 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	PR0000011478	No	02/22/2025	0	02/21/2025

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
RCRA (Source ID: PR0000011478)			04/01-06/30/22	07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01-03/31/24	04/01-06/30/24	07/01-09/30/24	10/01-12/31/24
	Facility-Level Status		No Violation Identified	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	5,610
Population Density	1,798/sq.mi.
Housing Units in Area	2,782
Percent People of Color	99%
Households in Area	2,018
Households on Public Assistance	108
Persons With Low Income	4,254
Percent With Low Income	76%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.04969
Center Longitude	-67.05615
Total Area	3.121 sq.mi.
Land Area	100%
Water Area	0%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than $15,000	715 (35.41%)
$15,000 - $25,000	388 (19.22%)
$25,000 - $50,000	584 (28.93%)
$50,000 - $75,000	206 (10.2%)
Greater than $75,000	126 (6.24%)

Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Children 5 years and younger	144 (3%)
Minors 17 years and younger	743 (13%)
Adults 18 years and older	4,869 (87%)
Seniors 65 years and older	1,389 (25%)

Race Breakdown (ACS (American Community Survey)) - Persons (%)	
White	2,549 (45%)
African-American	161 (3%)
Hispanic-Origin	5,522 (98%)
Asian	0 (0%)
Hawaiian/Pacific Islander	0 (0%)
American Indian	0 (0%)
Other/Multiracial	2,215 (39%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	495 (11.55%)
9th through 12th Grade	357 (8.33%)
High School Diploma	1,068 (24.91%)
Some College/2-year	563 (13.13%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	1,050 (24.49%)

Exhibit 7E

Detailed Facility Report

Facility Summary

PRASA LAJAS

PR-101 KM 2.4, LAJAS, PR 00667

FRS (Facility Registry Service) ID: 110009700225

EPA Region: 02

Latitude: 18.048017

Longitude: -67.06129

Locational Data Source: NPDES

Industries: Utilities

Indian Country: N

Enforcement and Compliance Summary

Statute	CWA
Compliance Monitoring Activities (5 years)	1
Date of Last Compliance Monitoring Activity	08/15/2022
Compliance Status	Violation Identified
Qtrs in Noncompliance (of 12)	4
Qtrs with Significant Violation	0
Informal Enforcement Actions (5 years)	--
Formal Enforcement Actions (5 years)	1
Penalties from Formal Enforcement Actions (5 years)	$0
EPA Cases (5 years)	--
Penalties from EPA Cases (5 years)	--
Statute	**RCRA**
Compliance Monitoring Activities (5 years)	--
Date of Last Compliance Monitoring Activity	--
Compliance Status	No Violation Identified
Qtrs in Noncompliance (of 12)	0
Qtrs with Significant Violation	0
Informal Enforcement Actions (5 years)	--
Formal Enforcement Actions (5 years)	--
Penalties from Formal Enforcement Actions (5 years)	--
EPA Cases (5 years)	--
Penalties from EPA Cases (5 years)	--

Regulatory Information

Clean Air Act (CAA): No Information

Clean Water Act (CWA): Major, Permit Effective (PR0020575)

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Resource Conservation and Recovery Act (RCRA): Inactive Other, (PRD000689661)

Safe Drinking Water Act (SDWA): No Information

Toxic Releases (TRI): No Information

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

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

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110009700225					N	18.048017	-67.06129
ICIS		2655238					N	18.049011	-67.062714
ICIS		40025					N	18.048018	-67.06129
ICIS-NPDES	CWA	PR0020575	Major: NPDES Individual Permit	Effective	POTW	05/31/2025	N	18.05	-67.061667
RCRAInfo	RCRA	PRD000689661	Other	Inactive ( )			N		

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110009700225	PRASA LAJAS	PR-101 KM 2.4, LAJAS, PR 00667	Lajas Municipio
ICIS		2655238	PRASA LAJAS STP	STATE RD 101, KM. 2.4, LAJAS, PR 00667	Lajas Municipio
ICIS		40025	PRASA LAJAS	PR ROAD #101, KM 2.4, LAJAS, PR 00667	Lajas Municipio
ICIS-NPDES	CWA	PR0020575	PRASA LAJAS WWTP	PR ROAD #101, KM 2.4, LAJAS, PR 00667	Lajas Municipio
RCRAInfo	RCRA	PRD000689661	LAJAS STP	STATE RD 101 KM 23.7, LAJAS, PR 00667	Lajas Municipio

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description
ICIS-NPDES	PR0020575	4952	Sewerage Systems

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description
RCRAInfo	PRD000689661	22132	Sewage Treatment Facilities

Facility Industrial Effluent Guidelines

Identifier	Effluent Guideline (40 CFR Part)	Effluent Guideline Description

No data records returned

Facility Tribe Information

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

No data records returned

Enforcement and Compliance

Compliance Monitoring History

Last 5 Years

Statute	Source ID	System	Activity Type	Compliance Monitoring Type	Lead Agency	Date	Finding (if applicable)
CWA	PR0020575	ICIS-NPDES	Inspection/Evaluation	Base Program - Evaluation	EPA	08/15/2022	
CWA	*PR0020575*	*ICIS-NPDES*	*Offsite Record Review*	*Base Program - Desk Audit*	*EPA*	*05/13/2021*	

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	PR0020575	No	09/30/2024	4	02/21/2025
RCRA	PRD000689661	No	02/22/2025	0	02/21/2025

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	
CWA (Source ID: PR0020575)					10/01-12/31/21	01/01-03/31/22	04/01-06/30/22	07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/
	Facility-Level Status				Violation Identified	Violation Identified	Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	N
	Quarterly Noncompliance Report History				Reportable Noncompliance	Reportable Noncompliance	Reportable Noncompliance	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
CWA	BOD, 5-day, 20 deg. C <effluent-charts#pr0020575/00310> [redacted] <https://epa.gov/effluent-charts#pr0020575/00310>	001-A	Effluent Gross	NMth				73%	9%				
CWA	BOD, 5-day, percent removal <effluent-charts#pr0020575/81010> [redacted] <https://epa.gov/effluent-charts#pr0020575/81010>	001-A	Percent Removal	Neither				7%					
CWA	Copper, total [as Cu] <effluent-charts#pr0020575/01042> [redacted] <https://epa.gov/effluent-charts#pr0020575/01042>	001-A	Effluent Gross	NMth				18%			18%	**94%**	**40%**
CWA	Oxygen, dissolved [DO] <effluent-charts#pr0020575/00300> [redacted] <https://epa.gov/effluent-charts#pr0020575/00300>	001-A	Effluent Gross	Neither			22%						
CWA	Selenium, total [as Se] <effluent-charts#pr0020575/01147> [redacted] <https://epa.gov/effluent-charts#pr0020575/01147>	001-A	Effluent Gross	NMth									
CWA	Surfactants [MBAS] <effluent-charts#pr0020575/38260> [redacted] <https://epa.gov/effluent-charts#pr0020575/38260>	001-A	Effluent Gross	NMth			**70%**	**273%**					85%
	Permit Schedule Violations												
CWA	Pretreatment Program Implementation Report										04/23/2023-05/10/2023		
CWA	Pretreatment Program Implementation Report												

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
RCRA (Source ID: PRD000689661)			04/01-06/30/22	07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01-03/31/24	04/01-06/30/24	07/01-09/30/24	10/01-12/31/24
	Facility-Level Status		No Violation Identified	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/PR0020575	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?
210100040104	Eastern Valle de Lajas	MONDONGO GREEK	No	No	BOD, 5-day, 20 deg. C | BOD, 5-day, percent removal | Enterococci | Oxygen, dissolved (DO) | Solids, suspended percent removal | Solids, total suspended | Temperature, water deg. centigrade | Turbidity	Yes

Assessed Waters From Latest State Submission (ATTAINS)

State	Report Cycle	Assessment Unit ID	Assessment Unit Name	Water Condition	Cause Groups Impaired	Drinking Water Use	Ecological Use	Fish Consumption Use	Recreation Use	Other Use
PR	2022	PRSR69A1	RIO LOCO	Impaired - 303(d) Listed - With Restoration Plan	ORGANIC ENRICHMENT/OXYGEN DEPLETION | PATHOGENS | TEMPERATURE | TURBIDITY	Fully 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
PR0020575	DMR Pollutant Loadings (lb/year)	49,922	6,750,330	7,101,273	6,930,081	1,821,356
PR0020575	DMR Pollutant Loadings - Load Over Limit (lb/year)	149	209	12.21	81.31	0
PR0020575	DMR Conventional Loadings (lb/year)	--	--	--	33,176	--
PR0020575	DMR Conventional Loadings - Load Over Limit (lb/year)	--	--	--	0	--
PR0020575	DMR Toxic-Weighted Loadings (lb-eq/year)	353	231	25.82	26.38	1.65
PR0020575	DMR Toxic-Weighted Loadings - Load Over Limit (lb-eq/year)	7.89	99	0.1580	0.1967	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	5,444
Population Density	1,745/sq.mi.
Housing Units in Area	2,736
Percent People of Color	99%
Households in Area	1,976
Households on Public Assistance	111
Persons With Low Income	4,284
Percent With Low Income	79%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.048017
Center Longitude	-67.06129
Total Area	3.121 sq.mi.
Land Area	100%
Water Area	0%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than $15,000	753 (38.07%)
$15,000 - $25,000	408 (20.63%)
$25,000 - $50,000	563 (28.46%)
$50,000 - $75,000	157 (7.94%)
Greater than $75,000	97 (4.9%)

Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Children 5 years and younger	126 (2%)
Minors 17 years and younger	773 (14%)
Adults 18 years and older	4,671 (86%)
Seniors 65 years and older	1,323 (24%)

Race Breakdown (ACS (American Community Survey)) - Persons (%)	
White	2,469 (45%)
African-American	191 (4%)
Hispanic-Origin	5,360 (98%)
Asian	0 (0%)
Hawaiian/Pacific Islander	0 (0%)
American Indian	0 (0%)
Other/Multiracial	2,196 (40%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	484 (11.8%)
9th through 12th Grade	373 (9.09%)
High School Diploma	1,099 (26.79%)
Some College/2-year	532 (12.97%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	975 (23.77%)

Exhibit 7F

Detailed Facility Report

Facility Summary

LAJAS WWTP

ROAD #101, KM. 5.5, INTERIOR, LAJAS, PR 00667

FRS (Facility Registry Service) ID: 110064860770

EPA Region: 02

Latitude: 18.0475

Longitude: -67.0616

Locational Data Source: NPDES

Industries: --

Indian Country: N

Enforcement and Compliance Summary

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

Regulatory Information

Clean Air Act (CAA): No Information

Clean Water Act (CWA): Non-Major, Permit Effective (PRR053044)

Resource Conservation and Recovery Act (RCRA): No Information

Safe Drinking Water Act (SDWA): No Information

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): No Information

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

Go To Enforcement/Compliance Details

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

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110064860770					N	18.0475	-67.0616
ICIS-NPDES	CWA	PRR053044	Non-Major: General Permit Covered Facility	Effective	Industrial Stormwater	02/28/2026	N	18.0475	-67.0616

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110064860770	LAJAS WWTP	ROAD #101, KM. 5.5, INTERIOR, LAJAS, PR 00667	

System	Statute	Identifier	Facility Name	Facility Address	Facility County
ICIS-NPDES	CWA	PRR053044	LAJAS WWTP	ROAD #101, KM. 5.5, INTERIOR, LAJAS, PR 00667	Lajas 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 Industrial Effluent Guidelines

Identifier	Effluent Guideline (40 CFR Part)	Effluent Guideline Description

No data records returned

Facility Tribe Information

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

No data records returned

Enforcement and Compliance

Compliance Monitoring History

Last 5 Years

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

No data records returned

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

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
CWA	PRR053044	No	09/30/2024	0	02/21/2025

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
CWA (Source ID: PRR053044)		10/01-12/31/21	01/01-03/31/22	04/01-06/30/22	07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01-03/31/24	04/01-06/30/24
	Facility-Level Status	No Violation Identified	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
	Quarterly Noncompliance Report History											

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?
210100040104	Eastern Valle de Lajas	MONDONGO CREEK	No	No	Chemical Oxygen Demand (COD) | Solids, total suspended	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	PRSR69A1	RIO LOCO	Impaired - 303(d) Listed - With Restoration Plan	ORGANIC ENRICHMENT/OXYGEN DEPLETION | PATHOGENS | TEMPERATURE | TURBIDITY	Fully 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

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	5,460
Population Density	1,750/sq.mi.
Housing Units in Area	2,740
Percent People of Color	99%
Households in Area	1,983
Households on Public Assistance	113
Persons With Low Income	4,312
Percent With Low Income	79%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.0475
Center Longitude	-67.0616
Total Area	3.121 sq.mi.
Land Area	100%
Water Area	0%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than $15,000	759 (38.28%)
$15,000 - $25,000	415 (20.93%)
$25,000 - $50,000	561 (28.29%)
$50,000 - $75,000	153 (7.72%)
Greater than $75,000	95 (4.79%)

Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Children 5 years and younger	128 (2%)
Minors 17 years and younger	770 (14%)
Adults 18 years and older	4,688 (86%)
Seniors 65 years and older	1,352 (25%)

Race Breakdown (ACS (American Community Survey)) - Persons (%)	
White	2,481 (45%)
African-American	196 (4%)
Hispanic-Origin	5,374 (98%)
Asian	0 (0%)
Hawaiian/Pacific Islander	0 (0%)
American Indian	0 (0%)
Other/Multiracial	2,193 (40%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	491 (11.92%)
9th through 12th Grade	376 (9.13%)
High School Diploma	1,111 (26.97%)
Some College/2-year	531 (12.89%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	976 (23.7%)

Exhibit 7G

Detailed Facility Report

Facility Summary

RESIDENCIAL LAS AMERICAS

12 DR TEJADA CALLE, LAJAS, PR 00667

FRS (Facility Registry Service) ID: 110015322738

EPA Region: 02

Latitude: 18.047276

Longitude: -67.060179

Locational Data Source: RCRAINFO

Industries: Administration of Housing Programs, Urban Planning, and Community Development

Indian Country: N

Enforcement and Compliance Summary

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

Regulatory Information

Clean Air Act (CAA): No Information

Clean Water Act (CWA): No Information

Resource Conservation and Recovery Act (RCRA): Active VSQG, (PRR000016147)

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		110015322738					N	18.047276	-67.060179
RCRAInfo	RCRA	PRR000016147	VSQG	Active (H)			N	18.047276	-67.060179

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110015322738	RESIDENCIAL LAS AMERICAS	12 DR TEJADA CALLE, LAJAS, PR 00667	Lajas Municipio
RCRAInfo	RCRA	PRR000016147	RESIDENCIAL LAS AMERICAS	12 DR TEJADA CALLE, LAJAS, PR 00667	Lajas 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	PRR000016147	92511	Administration of Housing Programs

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	PRR000016147	No	02/22/2025	0	02/21/2025

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
RCRA (Source ID: PRR000016147)		04/01-06/30/22	07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01-03/31/24	04/01-06/30/24	07/01-09/30/24	10/01-12/31/24
	Facility-Level Status	No Violation Identified	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	5,490
Population Density	1,759/sq.mi.
Housing Units in Area	2,739
Percent People of Color	99%
Households in Area	1,995
Households on Public Assistance	112
Persons With Low Income	4,259
Percent With Low Income	78%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.047276
Center Longitude	-67.060179
Total Area	3.121 sq.mi.
Land Area	100%
Water Area	0%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than $15,000	758 (37.99%)
$15,000 - $25,000	385 (19.3%)
$25,000 - $50,000	583 (29.22%)
$50,000 - $75,000	168 (8.42%)
Greater than $75,000	101 (5.06%)

Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Children 5 years and younger	121 (2%)
Minors 17 years and younger	760 (14%)
Adults 18 years and older	4,727 (86%)
Seniors 65 years and older	1,352 (25%)

Race Breakdown (ACS (American Community Survey)) - Persons (%)	
White	2,527 (46%)
African-American	190 (3%)
Hispanic-Origin	5,416 (99%)
Asian	0 (0%)
Hawaiian/Pacific Islander	0 (0%)
American Indian	0 (0%)
Other/Multiracial	2,145 (39%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	482 (11.61%)
9th through 12th Grade	365 (8.79%)
High School Diploma	1,097 (26.42%)
Some College/2-year	554 (13.34%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	997 (24.01%)

Exhibit 7H

Detailed Facility Report

Facility Summary

ESSO STANDARD OIL CO - PR SC-384

70 CALLE 65 DE INFANTERIA S, LAJAS, PR 00667

FRS (Facility Registry Service) ID: 110004892894

EPA Region: 02

Latitude: 18.047069

Longitude: -67.059323

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): Active VSQG, (PRR000004663)

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		110004892894					N	18.047069	-67.059323
RCRAInfo	RCRA	PRR000004663	VSQG	Active (H)			N	18.047848	-67.059294

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110004892894	ESSO STANDARD OIL CO - PR SC-384	70 CALLE 65 DE INFANTERIA S, LAJAS, PR 00667	Lajas Municipio
RCRAInfo	RCRA	PRR000004663	ESSO STANDARD OIL CO - PR SC-384	CALLE 65 DE INFANTERIA 70, LAJAS, PR 00667	Lajas 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	PRR000004663	No	02/22/2025	0	02/21/2025

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
RCRA (Source ID: PRR000004663)			04/01-06/30/22	07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01-03/31/24	04/01-06/30/24	07/01-09/30/24	10/01-12/31/24
	Facility-Level Status		No Violation Identified	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	5,504
Population Density	1,764/sq.mi.
Housing Units in Area	2,736
Percent People of Color	99%
Households in Area	2,000
Households on Public Assistance	111
Persons With Low Income	4,238
Percent With Low Income	77%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.047069
Center Longitude	-67.059323
Total Area	3.121 sq.mi.
Land Area	100%
Water Area	0%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than $15,000	756 (37.84%)
$15,000 - $25,000	374 (18.72%)
$25,000 - $50,000	590 (29.53%)
$50,000 - $75,000	174 (8.71%)
Greater than $75,000	104 (5.21%)

Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Children 5 years and younger	122 (2%)
Minors 17 years and younger	752 (14%)
Adults 18 years and older	4,753 (86%)
Seniors 65 years and older	1,367 (25%)

Race Breakdown (ACS (American Community Survey)) - Persons (%)	
White	2,554 (46%)
African-American	186 (3%)
Hispanic-Origin	5,435 (99%)
Asian	0 (0%)
Hawaiian/Pacific Islander	0 (0%)
American Indian	0 (0%)
Other/Multiracial	2,118 (38%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	483 (11.57%)
9th through 12th Grade	361 (8.65%)
High School Diploma	1,093 (26.19%)
Some College/2-year	559 (13.39%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	1,009 (24.17%)

Exhibit 7 I

Detailed Facility Report

Facility Summary

ILIA IRIZARRY SERVICE STATION

65 DE INFANTERIA 21 SUR, LAJAS, PR 00667

FRS (Facility Registry Service) ID: 110012220319

EPA Region: 02

Latitude: 18.048148

Longitude: -67.059264

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, (PRR000014621)

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		110012220319					N	18.048148	-67.059264
RCRAInfo	RCRA	PRR000014621	Other	Inactive ( )			N	18.048148	-67.059264

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110012220319	ILIA IRIZARRY SERVICE STATION	65 DE INFANTERIA 21 SUR, LAJAS, PR 00667	Lajas Municipio
RCRAInfo	RCRA	PRR000014621	ILIA IRIZARRY SERVICE STATION	65 DE INFANTERIA 21 SUR, LAJAS, PR 00667	Lajas 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	PRR000014621	No	02/22/2025	0	02/21/2025

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
RCRA (Source ID: PRR000014621)			04/01-06/30/22	07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01-03/31/24	04/01-06/30/24	07/01-09/30/24	10/01-12/31/24
	Facility-Level Status		No Violation Identified	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	5,502
Population Density	1,763/sq.mi.
Housing Units in Area	2,747
Percent People of Color	99%
Households in Area	1,998
Households on Public Assistance	109
Persons With Low Income	4,239
Percent With Low Income	77%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.048148
Center Longitude	-67.059264
Total Area	3.121 sq.mi.
Land Area	100%
Water Area	0%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than $15,000	743 (37.15%)
$15,000 - $25,000	384 (19.2%)
$25,000 - $50,000	585 (29.25%)
$50,000 - $75,000	178 (8.9%)
Greater than $75,000	110 (5.5%)

Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Children 5 years and younger	123 (2%)
Minors 17 years and younger	760 (14%)
Adults 18 years and older	4,747 (86%)
Seniors 65 years and older	1,342 (24%)

Race Breakdown (ACS (American Community Survey)) - Persons (%)	
White	2,527 (46%)
African-American	181 (3%)
Hispanic-Origin	5,425 (99%)
Asian	0 (0%)
Hawaiian/Pacific Islander	0 (0%)
American Indian	0 (0%)
Other/Multiracial	2,157 (39%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	478 (11.46%)
9th through 12th Grade	362 (8.68%)
High School Diploma	1,084 (26%)
Some College/2-year	551 (13.21%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	1,010 (24.22%)

ASBESTOS CONTAINING MATERIALS BUILDING INSPECTION REPORT

PROJECT:

ELDERLY SERVICE CENTER 11 Ferrocarril Street, Lajas PR 00667

Claim Number: PR-CRP-000902

PREPARED FOR:

Ingenium Professional Group

PREPARED BY:

Claudio Cabral

INSPECTION DATE:

May 19, 2023

REPORT DATE:

May 23, 2023

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APPENDIX I: CERTIFICATIONS AND ACCREDITATION

APPENDIX II: PHOTO LOG OF SUSPECT ASBESTOS CONTAINING MATERIALS

APPENDIX III: SAMPLE LOCATIONS MAP

APPENDIX IV: NO PRESENCE OF ASBESTOS LETTER __X__ YES ____ NO

SUMMARY

A survey for Asbestos Containing Material (ACM) was conducted by Innovate Corporation by Mr. Claudio Cabral on May 19, 2023 for one (1) structure. The structure is located at 11 Ferrocarril Street, Lajas PR 00667. The structure appears to have been built about 60 years ago, around the 1960's to 1970's. The scope of the survey included visual assessment, sampling and physical assessments of suspect ACM materials from the building. The purpose of the inspection was to identify materials that contain asbestos fibers above allowable levels that could cause harm to construction personnel and workers. This evaluation report can help owners develop a plan for mitigating asbestos hazards that were found and may aid in establishing an ongoing asbestos containing materials maintenance and re-evaluation program, if needed.

- **Suspect asbestos containing materials were not found during this inspection. Refer to the following Table 1.1 for a summary of samples collected.**

TABLE 1. 1 SUMMARY OF SAMPLES SUBMITTED

Location	Description	Measurement	Result
No Suspect Asbestos Containing Materials Observed; No Samples Collected			

- No suspect asbestos containing materials were identified on the roof.

1.0 INTRODUCTION

A survey of suspect Asbestos Containing Material (ACM) was conducted Innovate Corporation at the site located at 11 Ferrocarril Street, Lajas PR 00667. The site is scheduled to undergo renovation. The inspection was conducted by Claudio Cabral, AHERA Certified Asbestos Building Inspector (ASB-0123-0031-SI).

2.0 GENERAL BACKGROUND

Asbestos was used in the construction 1900 to 1989. It is still being used today in various products. The health effects of asbestos have been studied since the 1930's. More health studies have been conducted in asbestos than any other natural substance. The mere presence of asbestos containing materials does not necessarily constitute a health hazard. However, when these materials become disturbed from

building renovation, maintenance, or other everyday activities that allow fibers to be released into the environment, a potential hazard does exist.

The relationship between exposure level and health risk is very complex. Although this relationship is not completely understood, asbestos exposure has been associated with several types of lung diseases including a debilitating lung disease called Asbestosis; a rare cancer of chest called Mesothelioma; and cancers of the esophagus, stomach, colon and other organs. Asbestosis is not always fatal; it is, however, incurable. Mesothelioma tends to be 100% fatal, as there is no cure.

2.1 NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS (NESHAP)

The EPA's rules concerning the application, removal and disposal of ACM, as well as manufacturing, spraying and fabricating of ACM were issued under the asbestos NESHAP regulation (U.S. EPA National Emission Standards for Hazardous Air Pollutants, 40 CFR 61 Subpart M, October 30, 1987). The asbestos NESHAP regulation governs asbestos demolition and renovation projects in all facilities. The NESHAP rule usually requires owners or operators to have all friable ACM removed before the building is demolished and may require its removal before renovation. If friable ACM shall be disturbed, the NESHAP rule may require appropriate work practice, or procedures for emission control. The rules state that any ACM, which may become friable, poses a potential hazard that should be addressed.

A revised NESHAP ruling was released on November 20, 1990, (Effective on February 20, 1991), which includes the responsibility of the owner, or operator, to "prior to the commencement of the demolition or renovation, thoroughly inspect the affected facility or part of the facility where demolition or renovation operation will occur for the presence of asbestos, including Category I and Category II non-friable ACM". (40 CFR, Part 61, National Emission Standards for Hazardous Air Pollutants, Asbestos NESHAP Revision, Final Rule, November 20, 1990).

3.0 ABATEMENT CONDITIONS

The US Environmental Protection Agency (EPA) rules concerning the application, removal, and disposal of Asbestos Containing Building Materials (ACBM) were issued under the asbestos NESHAP (US EPA National Emission Standard of Hazardous Air Pollutants, 40 CFR 61 Sub- part M, October 30, 1987). The asbestos NESHAP regulation governs asbestos demolition and renovation projects in all facilities. The NESHAP rule usually requires owners or operators to have all friable ACM removed before a building is demolished and may require its removal before renovation. For renovation projects where friable ACM will be disturbed, the NESHAP rule may require appropriate work practice or procedure for the controls of emissions. It states that any ACM that may become friable possesses a potential hazard that should be addressed. The Department of Environmental Protection (DEP) USVI, requires inspecting for the

presence of ACM prior to renovation or demolition, DEP requires submitting manifests for the asbestos disposal. Abatement, as defined by EPA, means any set of measures designed to eliminate asbestos hazards, permanently. The people providing the services must be trained in accordance with EPA accreditation/certification requirements. The product manufacturer and/or contractor must warranty abatement methods to last a minimum of 20 years, or these methods must have a design life of at least 20 years. Abatement activities may include, but are not necessarily limited to: the onsite or offsite removal of asbestos containing materials; the replacement of components or fixtures containing asbestos; the permanent enclosure of ACM with construction materials mechanically-fastened to the substrate; the encapsulation of ACM with specially designed products; or the removal or permanent covering (rigid barriers) of soil with asbestos hazards. If the enclosure or encapsulation is conducted as an abatement method, the ACM remains on the property, so ongoing ACM maintenance is required.

3.1 PROJECT IDENTIFICATION/ DESCRIPTION

The project consists of a residence with one (1) bedrooms on the ground floor and open space on the second floor with bathroom and laundry. The residence is scheduled to undergo renovation or demolition in the near future. The residence appears to have been constructed around the 1960's to 1970's.

4.0 METHODS OF BUILDING INSPECTION

The visual inspection was conducted according to the condition of suspect ACM observed and the potential for material disturbance. The assessment scheme followed the recommendations by EPA as a result of the Asbestos Hazard Emergency Response Act and outlined in the Code of Federal Regulations 40 CFR Part 763.88 dated October 30, 1987 and amended by 40 CFR Part 61, National Emission Standards for Hazardous Air Pollutants (Asbestos NESHAP Revision, Final Rule, November 20, 1990).

Each functional space was visually inspected to identify the location of any suspect ACM. An assessment was then made of the friability of suspected ACM by touching the material to determine if it could be pulverized, crumbled or reduced to powder by hand pressure. Upon completion of functional space investigation, bulk sample(s) were collected and grouped into "Homogeneous Sampling Areas" (i.e. areas which are uniform by color, texture, construction/application date and general appearance).

ACM is categorized as follows:

1. Category I, non-friable ACM: This includes asbestos containing packing's, gaskets, resilient floor covering and asphalt roofing products containing more than 1% asbestos.
2. Category II, non-friable ACM: This includes any materials, excluding Category I non-friable ACM containing more than 1% asbestos, that when dry cannot be crumbled, pulverized or reduced to powder by hand pressure.
3. Friable asbestos materials: This includes any material containing more than 1% asbestos that, when dry, can be crumbled, pulverized or reduced to powder by hand pressure.

A physical hazard assessment was performed based on AHERA regulations. This protocol provides separate analysis for three types of materials: Surfacing, Thermal Insulation and Miscellaneous. However, this protocol does not provide a means for relative ranking of individual hazards within the category. Therefore, a separate analysis was performed as to assess hazard ranking which could be used for this type of material. The hazard assessment combines the level of potential disturbance with the current condition of ACM to indicate overall hazard potential. The rankings of potential hazards range from 1-most hazardous to 7-least hazardous. The highest rank is reserved for ACM which is significantly damaged. A review of the definition of "significant damage" reveals that the definitions are designed to identify ACM, which is so extensively damaged or deteriorated, that it requires immediate corrective action. Hazard rank 2- 4 reflects ACM, which is "damaged" as defined by AHERA, with rank 2 indicating a "potential for significant damage" and rank 3 indicating a "potential for

damage". Hazard ranks 5-7 are reserved for ACM currently in good condition, but with a range in the likelihood for future disturbance.

5.0 SAMPLING METHODS

Guidelines used for this inspection were established by the Environmental Protection Agency (EPA) in the Guidance for Controlling Asbestos Containing Materials in Buildings, 40 CFR Part 763 and Asbestos Hazard Emergency Response Act (AHERA). Field information was organized as per the AHERA concept of Homogeneous Area (HA). Bulk samples of suspect ACM were analyzed by Polarized Light Microscopy (PLM) with dispersion staining, as described in 40 CFR Part 763 and the National Emissions Standard for Hazardous Air Pollutants (NESHAPS). All samples were sent to IATL International, an NVLAP accredited laboratory. Sample locations were chosen to be representative of the homogeneous sampling area.

6.0 INSPECTION RESULTS AND CONCLUSIONS

Asbestos Containing Materials were not found during this inspection.

7.0 LIMITATIONS

This asbestos containing materials survey was conducted in a manner consistent with the level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions in the same locale. All results, findings, conclusions and recommendations expressed in this report are based on conditions observed during our survey of the site. The information contained in this report is relevant to the date on which this survey was performed and should not be relied upon to represent conditions at a later date. This report has been prepared on behalf of and exclusively for use by the Client for specific application to their project, as discussed. This report is not intended for use as a bidding document. All contractors or consultants reviewing this report must draw their own conclusions regarding further investigation or remediation deemed necessary. Innovate Corporation does not warrant the work of regulatory agencies, laboratories or other third parties supplying information, which may have been used in the preparation of this report. No warranty, express or implied is made.

Innovate Corporation conducted this survey in a manner as comprehensive as possible; however, hidden or concealed materials not accessible at the time of this inspection may be discovered. If previously unidentified suspect asbestos containing materials are discovered, please contact us for further assessment prior to disturbance.

APPENDIX I: CERTIFICATIONS AND ACCREDITATION

Innovate

ASB-0123-0031-SI

Número de Registro

12-ene-2024

Fecha de vencimiento

TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Claudio Cabral Rivas

Inspector

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

Firma Autorizada - Departamento Recursos Naturales y Ambientales

APPENDIX II PHOTO LOG OF SUSPECT ASBESTOS CONTAINING MATERIALS

Claudio A. Cabral
Innovate Corporation

PR-CRP-000902 ELDERLY SERVICE CENTER SACM PHOTO LOG

11 Ferrocarril Street, Lajas PR 00667

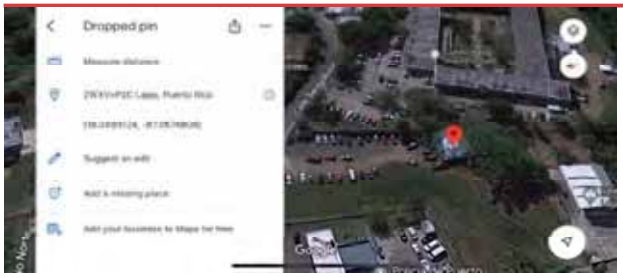
Friday, May 19, 2023

Prepared For Ingenium Professional Group

3 Issues Identified

GENERAL VIEW PHOTO

Assigned To PR-CRP- 000902
Elderly Service Center



LOCATION

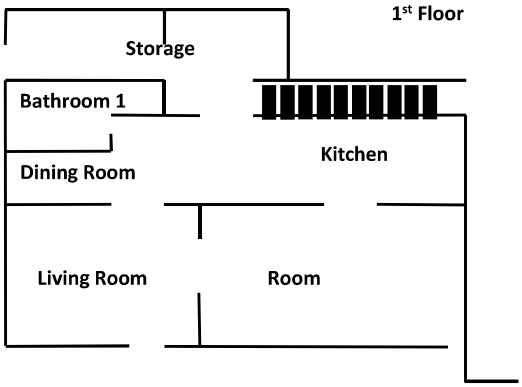
Assigned To PR-CRP- 000902
Elderly Service Center
18.0493124, -67.0574804

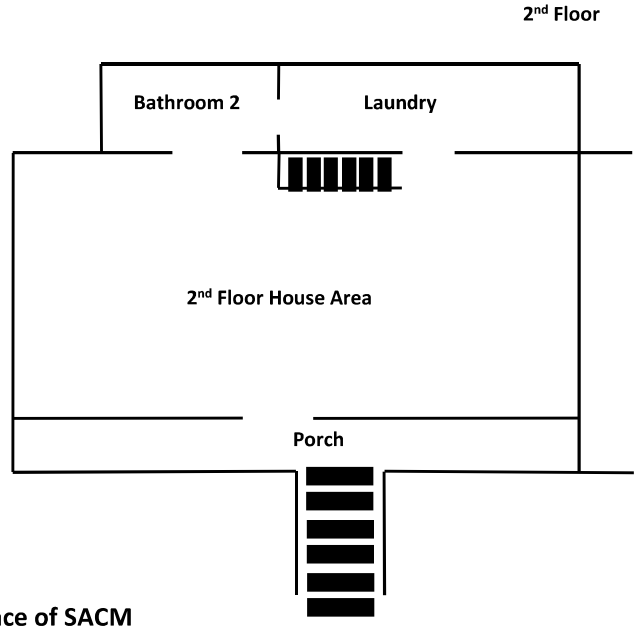
SACM

Assigned To PR-CRP- 000902 Elderly Service Center
No presence of Asbestos on the site

APPENDIX III SAMPLE LOCATIONS MAP

PR-CRP-000902 ELDERLY SERVICE CENTER





No Presence of SACM

APPENDIX IV: NO PRESENCE OF ASBESTOS LETTER

- _____ Not Included – Asbestos Detected
- __x___ Included – No Asbestos Detected (see attached)

GOBIERNO DE PUERTO RICO
OFICINA DEL GOBERNADOR
JUNTA DE CALIDAD AMBIENTAL

Área de Calidad de Agua

Forma PGC-009

CERTIFICACION DE NO PRESENCIA DE ASBESTO EN ESTRUCTURAS A DEMOLERSE

(Deberá completarse en letra de molde o impresa)

House Ederly Center

NUM. PERMISO: _____

Yo, Claudio Cabral Rivas (Nombre), mayor de edad, Casado (Estado Civil), y vecino de Caguas (Municipio)

Dirección Postal Sureña 144 Via de la Ermita Caguas (Pueblo) PR 00727 (Zip Code)

Teléfonos: Residencial (787) 593 - 9599 Oficina (_____)_____-_____Ext._____
Fax (_____)_____- _____

Certifico que:

1. La estructura localizada en 11 Ferrocarril Street, Lajas PR 00667, la cual será objeto de una demolición se encuentra libre de asbesto.
2. La información antes indicada es cierta y correcta.
3. Afirmo y reconozco las consecuencias de incluir y someter información falsa en este documento.
4. Para que así conste, firmo la presente certificación en Caguas de Puerto Rico, hoy día 19 de mayo de 2023

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

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

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

LEAD BASED PAINT INSPECTION REPORT

PROJECT:

ELDERLY SERVICE CENTER 11 Ferrocarril Street, Lajas PR 00667

Claim Number: PR-CRP-000902

PREPARED FOR:

Ingenium Professional Group

PREPARED BY:

Claudio Cabral

INSPECTION DATE:

May 19, 2023

REPORT DATE:

May 23, 2023

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APPENDIX II: SUMMARY OF XRF READINGS

APPENDIX III: PHOTO LOG

APPENDIX IV: FLOOR PLAN MAP

SUMMARY

A survey for Lead Based Paint (LBP) was conducted by Innovate Corporation, by Mr. Claudio Cabral on May 19, 2023 for one (1) structure. The structure is located at 11 Ferrocarril Street, Lajas PR 00667. The structure appears to have been built about 60 years ago, around the 1960's to 1970's. The survey was conducted in order to identify LBP coatings on and within the site, which is scheduled for renovation or demolition. The inspection was performed in conformance with the applicable sections of the Department of Housing and Urban Development Guidelines. The survey included complete testing of all accessible and visible surfaces. Inspections were conducted with an XRF instrument manufactured by Thermo Scientific and/or paint chip collection for chemical analysis by a qualified laboratory.

- **Positive LBP coatings were detected during this inspection (XRF readings). A summary of LBP components, where detected, are shown in Appendix II.**

1.0 INTRODUCTION

A survey for Lead Based Paint (LBP) was conducted by Innovate Corporation, by Mr. Claudio Cabral on May 19, 2023 for one (1) structure. The structure is located at 11 Ferrocarril Street, Lajas PR 00667. The survey was conducted in order to identify LBP coatings on and within the site, which is scheduled for renovation or demolition. The survey was conducted using the single-family testing protocol outlined by HUD in 1997. The inspection was conducted by Claudio Cabral. Mr. Cabral is a Lead Risk Assessor (LBPRA-33222-380).

2.0 LEAD BASED PAINT METHODOLOGY

The lead-based paint testing protocol officially available at the time of this survey was published by HUD initially in 1990, revised in 1991 and finalized in 1995. A revised Chapter 7 was published in 1997. In accordance with the new protocol, all surfaces present at the site must be tested. The above guidelines were used to perform lead based-paint testing for this investigation.

The hazard level of lead in paint has been determined by the Department of Housing & Urban Development (HUD) to be 1.0 mg/cm2, as measured by XRF or Atomic Absorption Spectroscopy (AAS), or 0.5% by weight (or 5000 ppm) as measured by AAS, or Inductive Coupled Plasma (ICP). The same level was adopted by EPA regulations published in 1992, under Title X.

The main steps involved in a single-family inspection are:

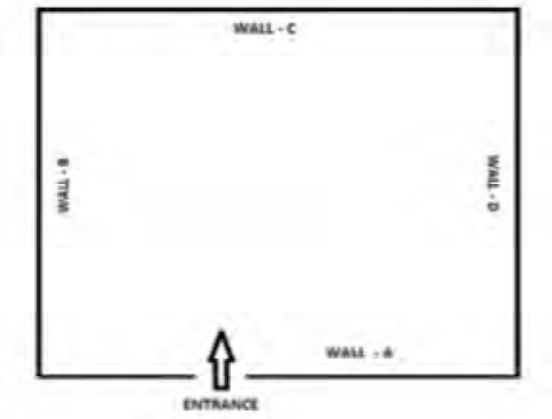
1. Select the painted area to be tested
2. Classify XRF and paint chips results
3. Collect and analyze paint chip samples, for inconclusive results
4. Classify paint chips results
5. Review and evaluate the data
6. Report findings

3.0 TESTING PROCEDURE

For this survey, the painted components testing was performed with a Thermo Scientific, and/or Niton X Ray fluorescence instrument (serial number 113997). The instrument operates in two modes: 1) standard mode and 2) time corrected mode (Lead in Paint K+L variable reading time mode). The standard mode is selected for the NIST reference readings to ensure that instrument is working according to the manufacturer's Performance Characteristic Sheet (PCS). The mode selected for sampling of components was the time corrected mode (Lead in Paint variable reading time mode) which allows reference to the abatement level set 1.0 mg/cm2. The results are reported at 95% confidence levels and the quality of the testing verified according to the manufacturer's recommendations. Results are evaluated based on the following criteria:

- If the results of the surface analyzed by the XRF Spectrum Analyzer is less than 1.0 mg/cm2 it is considered negative.
- If the results of the surface analyzed by the XRF Spectrum Analyzer is equal or greater than 1.0 mg/cm2 it is considered positive.
- In case of inconclusive results, paint chips (sample of the paint) will be analyzed at the laboratory and reported by weight or ppm.

Component sampling was conducted using a clockwise path for all functional spaces including exterior sides of selection as per the following figure:



4.0 RESULTS AND CONCLUSIONS

Sixty-nine (69) XRF readings were taken. Positive LBP components were found at the time of this inspection. The results of the tested components are shown in Appendix II. This report should be kept by the owner and all future owners for the life of the building.

5.0 LIMITATIONS

This survey was conducted in a manner consistent with the level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions in the same locale. All results, findings, conclusions and recommendations expressed in this report are based on conditions observed during our survey of the site. The information contained in this report is relevant to the date on which this survey was performed and should not be relied upon to represent conditions at a later date. This report has been prepared on behalf of and exclusively for use by the Client for specific application to their project, as discussed. This report is not intended for use as a bidding document. All contractors or consultants reviewing this report must draw their own conclusions regarding further investigation or remediation deemed necessary. Innovate Corporation does not warrant the work of regulatory agencies, laboratories or other third parties supplying information, which may have been used in the preparation of this report. No warranty, express or implied is made.

Innovate Corporation conducted this survey in a manner as comprehensive as possible; however, hidden or concealed coatings not accessible at the time of this inspection may be discovered. If previously unidentified coatings are discovered, please contact us for further assessment prior to disturbance.

APPENDIX I: CERTIFICATIONS AND CREDENTIALS

Claudio Cabral Rivas
Lead Risk Assessor
LBPRA-3322-380

GOBIERNO DE PUERTO RICO

Departamento de Recursos Naturales y Ambientales

Este certificado es otorgado a:

Innovate Corporation

Por haber cumplido con los requisitos establecidos en el Capítulo VI, Regla 127 del Reglamento para el Manejo Adecuado de Actividades de Pintura con Base de Plomo. Se le otorga esta certificación como **Firma** para llevar a cabo actividades relacionadas a Mitigación de Pintura con base de plomo en la jurisdicción de Puerto Rico.

Número de Certificado

LBPF-13022-023

Fecha de emisión: Junio 24, 2022

Fecha de Expiración: Junio 23, 2023

DRNA

José Roque Juliá
Jefe
División Desperdicios Tóxicos

Innovate

ThermoFisher
SCIENTIFIC

CERTIFICATE

This Certifies that

Claudio Cabral

Has successfully completed

Safety Training for
~ Sealed Source XRF - Radiation Safety~

Supervisor Signature

6/18/2020
COMPLETION DATE

Jean Geslin
Jean Geslin, RSO
Thermo Fisher Scientific

Performance Characteristic Sheet

EFFECTIVE DATE: **September 24, 2004** **EDITION NO.: 1**

MANUFACTURER AND MODEL:

Make: *Niton LLC*
Tested Model: *XLp 300*
Source: ^{109}Cd
Note: This PCS is also applicable to the equivalent model variations indicated below, for the Lead-in-Paint K+L variable reading time mode, in the XLi and XLp series:

XLi 300A, XLi 301A, XLi 302A and XLi 303A.
XLp 300A, XLp 301A, XLp 302A and XLp 303A.
XLi 700A, XLi 701A, XLi 702A and XLi 703A.
XLp 700A, XLp 701A, XLp 702A, and XLp 703A.

Note: The XLi and XLp versions refer to the shape of the handle part of the instrument. The differences in the model numbers reflect other modes available, in addition to Lead-in-Paint modes. The manufacturer states that specifications for these instruments are identical for the source, detector, and detector electronics relative to the Lead-in-Paint mode.

FIELD OPERATION GUIDANCE

OPERATING PARAMETERS:

Lead-in-Paint K+L variable reading time mode.

XRF CALIBRATION CHECK LIMITS:

0.8 to 1.2 mg/cm^2 (inclusive)

The calibration of the XRF instrument should be checked using the paint film nearest 1.0 mg/cm^2 in the NIST Standard Reference Material (SRM) used (e.g., for NIST SRM 2579, use the 1.02 mg/cm^2 film).

If readings are outside the acceptable calibration check range, follow the manufacturer's instructions to bring the instruments into control before XRF testing proceeds.

SUBSTRATE CORRECTION:

For XRF results using Lead-in-Paint K+L variable reading time mode, substrate correction is <u>not</u> needed for:

Brick, Concrete, Drywall, Metal, Plaster, and Wood

INCONCLUSIVE RANGE OR THRESHOLD:

K+L MODE READING DESCRIPTION	SUBSTRATE	THRESHOLD (mg/cm^2)
Results not corrected for substrate bias on any substrate	Brick	1.0
	Concrete	1.0
	Drywall	1.0
	Metal	1.0
	Plaster	1.0
	Wood	1.0

BACKGROUND INFORMATION

EVALUATION DATA SOURCE AND DATE:

This sheet is supplemental information to be used in conjunction with Chapter 7 of the HUD *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing* ("HUD Guidelines"). Performance parameters shown on this sheet are calculated from the EPA/HUD evaluation using archived building components. Testing was conducted in August 2004 on 133 testing combinations. The instruments that were used to perform the testing had new sources; one instrument's was installed in November 2003 with 40 mCi initial strength, and the other's was installed June 2004 with 40 mCi initial strength.

OPERATING PARAMETERS:

Performance parameters shown in this sheet are applicable only when properly operating the instrument using the manufacturer's instructions and procedures described in Chapter 7 of the HUD Guidelines.

SUBSTRATE CORRECTION VALUE COMPUTATION:

Substrate correction is not needed for brick, concrete, drywall, metal, plaster or wood when using Lead-in-Paint K+L variable reading time mode, the normal operating mode for these instruments. If substrate correction is desired, refer to Chapter 7 of the HUD Guidelines for guidance on correcting XRF results for substrate bias.

EVALUATING THE QUALITY OF XRF TESTING:

Randomly select ten testing combinations for retesting from each house or from two randomly selected units in multifamily housing. Use the K+L variable time mode readings.

Conduct XRF retesting at the ten testing combinations selected for retesting.

Determine if the XRF testing in the units or house passed or failed the test by applying the steps below.

Compute the Retest Tolerance Limit by the following steps:

Determine XRF results for the original and retest XRF readings. Do not correct the original or retest results for substrate bias. In single-family housing a result is defined as the average of three readings. In multifamily housing, a result is a single reading. Therefore, there will be ten original and ten retest XRF results for each house or for the two selected units.

Calculate the average of the original XRF result and retest XRF result for each testing combination.

Square the average for each testing combination.

Add the ten squared averages together. Call this quantity C.

Multiply the number C by 0.0072. Call this quantity D.

Add the number 0.032 to D. Call this quantity E.

Take the square root of E. Call this quantity F.

Multiply F by 1.645. The result is the Retest Tolerance Limit.

Compute the average of all ten original XRF results.

Compute the average of all ten re-test XRF results.

Find the absolute difference of the two averages.

If the difference is less than the Retest Tolerance Limit, the inspection has passed the retest. If the difference of the overall averages equals or exceeds the Retest Tolerance Limit, this procedure should be repeated with ten new testing combinations. If the difference of the overall averages is equal to or greater than the Retest Tolerance Limit a second time, then the inspection should be considered deficient.

Use of this procedure is estimated to produce a spurious result approximately 1% of the time. That is, results of this procedure will call for further examination when no examination is warranted in approximately 1 out of 100 dwelling units tested.

TESTING TIMES:

For the Lead-in-Paint K+L variable reading time mode, the instrument continues to read until it is moved away from the testing surface, terminated by the user, or the instrument software indicates the reading is complete. The following table provides testing time information for this testing mode. The times have been adjusted for source decay, normalized to the initial source strengths as noted above. Source strength and type of substrate will affect actual testing times. At the time of testing, the instruments had source strengths of 26.6 and 36.6 mCi.

Testing Times Using K+L Reading Mode (Seconds)						
	All Data			Median for laboratory-measured lead levels (mg/cm^2)		
Substrate	25th Percentile	Median	75th Percentile	Pb < 0.25	0.25 ≤ Pb<1.0	1.0 ≤ Pb
Wood Drywall	4	11	19	11	15	11
Metal	4	12	18	9	12	14
Brick Concrete Plaster	8	16	22	15	18	16

CLASSIFICATION RESULTS:

XRF results are classified as positive if they are greater than or equal to the threshold, and negative if they are less than the threshold.

DOCUMENTATION:

A document titled *Methodology for XRF Performance Characteristic Sheets* provides an explanation of the statistical methodology used to construct the data in the sheets, and provides empirical results from using the recommended inconclusive ranges or thresholds for specific XRF instruments. For a copy of this document call the National Lead Information Center Clearinghouse at 1-800-424-LEAD.

This XRF Performance Characteristic Sheet was developed by the Midwest Research Institute (MRI) and QuanTech, Inc., under a contract between MRI and the XRF manufacturer. HUD has determined that the information provided here is acceptable when used as guidance in conjunction with Chapter 7, Lead-Based Paint Inspection, of HUD's *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing*.

APPENDIX II: SUMMARY OF XRF READINGS

XRF Form for Lead Base Paint Inspection

Customer Name:	Elderly Service Center	Project Name:	PR-CRP-000902 Elderly Service Center
Contact:	Ingenium Professional Group	Total Samples:	69
Phone /Email:		Bldg/Structure:	Slab on grade
Collected By:	Claudio Cabral	Floor:	1 and 2
Date:	19-May-23	XRF Serial No.	Thermo Niton 300 (113997)
ect Description:	LBP inspection		

Reading #	Structure	Room	Sustrate	Color	Component & Location	XRF Reading mg/cm2	Paint Condition	Measurement
1	Calibration					1.100		
2	Calibration					1.100		
3	Calibration					1.200		
4	Single Family	Exterior	Concrete	White	Wall A	0.000	Good	
5	Single Family	Exterior	Metal	White	Wall A Window	0.000	Good	
6	Single Family	Exterior	Concrete	N/A	Wall A Unpainted	0.000	Good	
7	Single Family	Exterior	Concrete	N/A	Wall B Unpainted	0.000	Good	
8	Single Family	Exterior	Metal	White	Wall B Window	0.000	Good	
9	Single Family	Exterior	Concrete	N/A	Wall C Unpainted	0.000	Good	
10	Single Family	Exterior	Concrete	N/A	Wall D Unpainted	0.000	Good	
11	Single Family	Exterior	Concrete	White	Stairs Wall B	0.000	Good	
12	Single Family	Exterior	Concrete	White	Stairs Wall D	0.000	Good	
13	Single Family	Exterior	Ceramic	Beige	Stairs Floor Tiles	0.000	Good	
14	Single Family	Interior	Concrete	White	Living Room Wall A	0.000	Good	
15	Single Family	Interior	Concrete	White	Living Room Wall B	0.000	Good	
16	Single Family	Interior	Concrete	White	Living Room Wall C	0.000	Good	
17	Single Family	Interior	Concrete	White	Living Room Wall D	0.000	Good	
18	Single Family	Interior	Concrete	Gray	Living Room Wall B Window Sill	0.000	Good	
19	Single Family	Interior	Concrete	White	Living Room Ceiling	0.000	Good	
20	Single Family	Interior	Ceramic	Yellow	1st Floor House Floor Tiles	0.000	Good	
21	Single Family	Interior	Concrete	White	Room 1 Wall A	0.000	Good	
22	Single Family	Interior	Concrete	White	Room 1 Wall B	0.000	Good	
23	Single Family	Interior	Concrete	White	Room 1 Wall C	0.000	Good	
24	Single Family	Interior	Concrete	White	Room 1 Wall D	0.000	Good	
25	Single Family	Interior	Concrete	White	Room 1 Wall D Window Sill	0.000	Good	
26	Single Family	Interior	Concrete	White	Room 1 Ceiling	0.000	Good	
27	Single Family	Interior	Concrete	White	Dining/Kitchen Wall A	0.000	Good	
28	Single Family	Interior	Concrete	White	Dining/Kitchen Wall B	0.000	Good	
29	Single Family	Interior	Concrete	White	Dining/Kitchen Wall C	0.000	Good	
30	Single Family	Interior	Concrete	White	Dining/Kitchen Wall D	0.000	Good	
31	Single Family	Interior	Concrete	White	Dining/Kitchen Wall B Window Sill	0.000	Good	
32	Single Family	Interior	Wood	White	Bathroom 1 Door	0.000	Good	
33	Single Family	Interior	Concrete	White	Bathroom 1 Wall A	0.000	Good	
34	Single Family	Interior	Concrete	White	Bathroom 1 Wall B	0.000	Good	
35	Single Family	Interior	Concrete	White	Bathroom 1 Wall C	0.000	Good	

36	Single Family	Interior	Concrete	White	Bathroom 1 Wall D	0.000	Good	
37	Single Family	Interior	Concrete	White	Bathroom 1 Ceiling	0.000	Good	
38	Single Family	Interior	Concrete	N/A	Bathroom 1 Floor Unpainted	0.000	Good	
39	Single Family	Interior	Ceramic	Blue	Bathroom 1 Sink	0.020	Good	
40	Single Family	Interior	Ceramic	Blue	Bathroom 1 Toilet	0.040	Good	
41	Single Family	Interior	Concrete	N/A	Storage Area Unpainted	0.000	Good	
42	Single Family	Interior	Concrete	N/A	Storage Area Ceiling Unpainted	0.000	Good	
43	Single Family	Interior	Wood	Brown	Storage Area Door Frame	0.010	Good	
44	Single Family	Interior	Concrete	Beige	Interior Stairway Wall B	0.000	Good	
45	Single Family	Interior	Concrete	Beige	Interior Stairway Wall B	0.000	Good	
46	Single Family	Interior	Ceramic	Gray	Interior Stairs Floor	0.060	Good	
47	Single Family	Interior	Concrete	N/A	Porch Wall A Unpainted	0.000	Good	
48	Single Family	Interior	Concrete	Green	2nd Floor Area Wall A	0.050	Good	
49	Single Family	Interior	Concrete	N/A	2nd Floor Area Wall B Unpainted	0.000	Good	
50	Single Family	Interior	Concrete	White	2nd Floor Area Wall C	0.020	Good	
51	Single Family	Interior	Concrete	Green	2nd Floor Area Wall C	0.040	Good	
52	Single Family	Interior	Concrete	Green	2nd Floor Area Wall D	0.000	Good	
53	Single Family	Interior	Concrete	N/A	Laundry Walls Unpainted	0.000	Good	
54	Single Family	Interior	Concrete	White	Bathroom 2 Wall A	0.000	Good	
55	Single Family	Interior	Concrete	White	Bathroom 2 Wall B	0.000	Good	
56	Single Family	Interior	Concrete	White	Bathroom 2 Wall C	0.000	Good	
57	Single Family	Interior	Concrete	White	Bathroom 2 Wall D	0.000	Good	
58	Single Family	Interior	Ceramic	Blue	Bathroom 2 Wall A	0.030	Good	
59	Single Family	Interior	Ceramic	Blue	Bathroom 2 Wall B	0.030	Good	
60	Single Family	Interior	Ceramic	Blue	Bathroom 2 Wall C	0.040	Good	
61	Single Family	Interior	Ceramic	Blue	Bathroom 2 Wall D	0.050	Good	
62	**Single Family**	**Interior**	**Ceramic**	**Blue**	**Bathroom 2 Tub**	**6.900**	**Good**	
63	Single Family	Interior	Ceramic	Blue	Bathroom 2 Sink	0.010	Good	
64	Single Family	Interior	Ceramic	Blue	Bathroom 2 Toilet	0.020	Good	
65	Single Family	Interior	Concrete	White	Bathroom 2 Ceiling	0.000	Good	
66	Single Family	Interior	Ceramic	Blue	Bathroom 2 Floor Tiles	0.010	Good	
67	Calibration					1.200		
68	Calibration					1.100		
69	Calibration					1.200		

APPENDIX III: PHOTO LOG

Innovate

Claudio A. Cabral
Innovate Corporation

PR-CRP-000902 ELDERLY SERVICE CENTER LBP PHOTO LOG

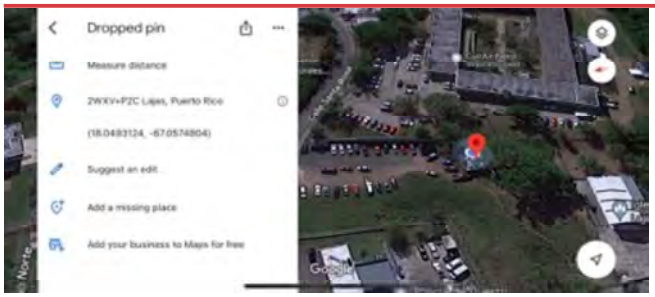
11 Ferrocarril Street, Lajas PR 00667

Friday, May 19, 2023

Prepared For Ingenium Professional Group

3 Issues Identified

GENERAL VIEW PHOTO
Assigned To PR-CRP- 000902
Elderly Service Center

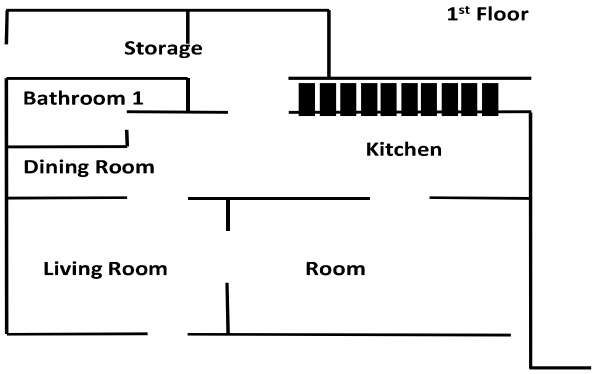


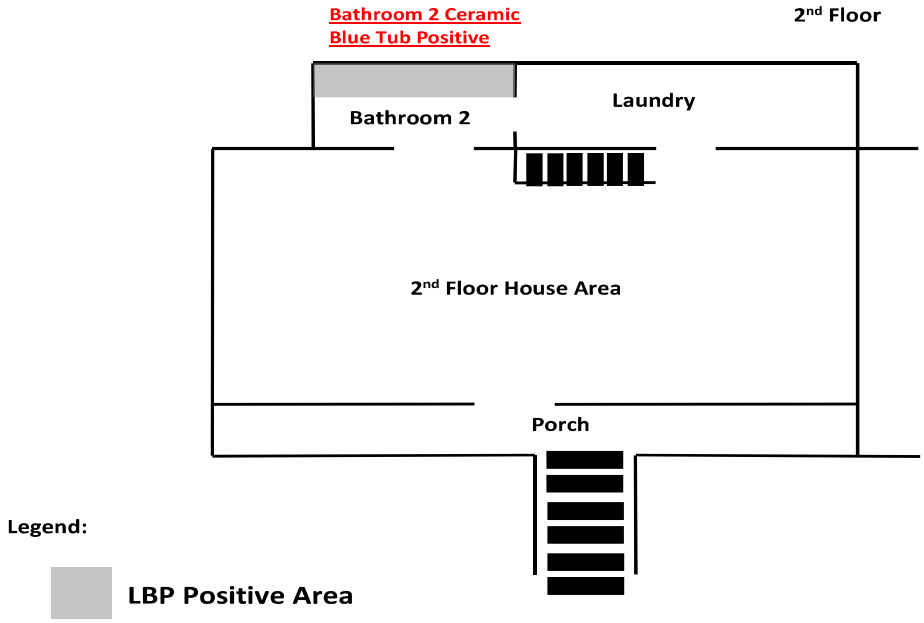
LOCATION
Assigned To PR-CRP- 000902
Elderly Service Center
18.0493124, -67.0574804

LBP
Assigned To PR-CRP- 000902
Elderly Service Center
2nd Floor Bathroom 2 Ceramic Tub
Blue Positive

APPENDIX IV: FLOOR PLAN MAP

PR-CRP-000902 ELDERLY SERVICE CENTER





Memorandum to File

Date: February 27, 2025

From: Sol Vanessa Rosa, PE
Tetra Tech Inc.
CDBG-DR Program
City Revitalization Program
Puerto Rico Department of Housing

Application Number: PR-CRP-000902
Project: Elderly Service Center

Re: Justification for the Infeasibility and Impracticability of Radon Testing

After reviewing Application Number PR-CRP-000902 under the City Revitalization Program, administered by the Puerto Rico Department of Housing (**PRDOH**), to complete the property's contamination analysis in accordance with 24 C.F.R. § 50.3(i) and 24 C.F.R. § 58.5(i), we have determined that testing the property's radon levels is infeasible and impracticable.

Per the U.S. Department of Housing and Urban Development's (**HUD**) CPD Notice 23-103, the recommended best practices and alternative options for radon testing are infeasible and impracticable in this case due to the following reasons:

- As required by the CPD Notice 23-103, the scientific data reviewed in lieu of testing must consist of a minimum of ten documented test results over the previous ten years. If there are less than ten documented results over this period, it is understood that there is a lack of scientific data. The latest report for radon testing in Puerto Rico was prepared in 1995 by the U.S. Department of the Interior in Cooperation with the U.S. Environmental Protection Agency. No other completed studies and reports on radon testing are available in Puerto Rico.

- There is no available science-based or state-generated information for Puerto Rico for the last ten years that can be used to determine whether the project site

is in a high-risk area. The Department of Health and Human Services, Centers for Disease Control and Prevention (**CDC**), National Environmental Public Health Tracking, and Radon Testing map do not include Puerto Rico data.

- There are only two (2) licensed professionals in Puerto Rico who can conduct radon testing using the American National Standards Institute/American Association of Radon Scientists and Technologists (**ANSI/AARST**) testing standards, which makes it difficult, time-consuming, and highly expensive to coordinate and secure a site visit for the contamination evaluation.

- Do-it-yourself (**DIY**) radon test kits are known to be unreliable in assuring and controlling the quality of the test results; they are not readily available in Puerto Rico, and the cost and time required for purchasing and sending them for analysis are unreasonable when weighed against the results' reliability and the need for prompt results.

- Local authorities in Puerto Rico do not have the specialized radon monitoring equipment or trained staff needed to conduct the radon testing analysis and ensure proper quality control and quality assurance practices are adhered to. We also do not have a radiation laboratory certified for radon testing.

As part of the evaluation for this determination, PRDOH sent information requests to six (6) local agencies at the state and federal levels. We received responses from the following agencies:

- United States Geological Survey
- Centers for Disease Control and Prevention
- Puerto Rico Department of Health; and
- United States Environmental Protection Agency.

The agencies mentioned above confirmed the lack of scientific data on Radon testing for Puerto Rico and the technical difficulties that we face to comply with HUD's Radon testing requirement. For the above-mentioned reasons, Radon testing is infeasible and impracticable for this property, and no further consideration of Radon is needed for the environmental review.

Radon
Attachments

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 1.7
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 on any policy, guideline, or protocol your agency follows concerning radon testing, exposure limits, or mitigation.

Historical data – If available, historical data or trends in radon levels within the regions you monitor that may impact HUD-assisted housing.

This information is vital to ensure that our radon management strategies are practical and compliant with federal requirements. If some of this information may be sensitive or confidential, we are prepared to discuss any necessary agreements or protocols for sharing this data securely.

Please let us know if you require additional details or have any questions regarding this request. We would greatly appreciate your response by September 15, 2024, so we can incorporate this data into our ongoing compliance efforts.

Thank you in advance for your cooperation and support. We look forward to working together on this critical initiative.

Sincerely,

William O. Rodríguez Rodríguez, Esq.
Secretary

Cc:
Mr. Oleg Povetko, Povetko.Oleg@epa.gov
Mr. Matthew Laurita, laurita.matthew@epa.gov

GOVERNMENT OF PUERTO RICO
DEPARTMENT OF HOUSING

August 20, 2024

Dr. Silvina Cancelos
Professor
College of Engineering
University of Puerto Rico – Mayagüez Campus
259 Norte Blvd. Alfonso Valdés Cobián
Mayagüez, Puerto Rico

Via email: silvina.cancelos@upr.edu

RE: Request for information regarding available data on radon testing and levels within Puerto Rico

The Puerto Rico Department of Housing (PRDOH) kindly requests your assistance in gathering data, information, or reports related to radon testing in Puerto Rico, as this information is crucial for our compliance with the U.S. Department of Housing and Urban Development (HUD) Community Planning and Development (CPD) Notice CDP-23-103.

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Sincerely,

William O. Rodríguez Rodríguez, Esq.
Secretary

Cc:
Dr. Carlos Nieh, carlos.nieh@upr.edu

GOVERNMENT OF PUERTO RICO
DEPARTMENT OF HOUSING

August 20, 2024

Dr. Jessica Irleary
Director
Office of Island Affairs
U.S. Centers for Disease Control and Prevention
1324 Cll Canada, San Juan, 00920
Guaynabo, PR 00968-8069

Via email: DIA@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

Via 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, secretariajunta@drna.pr.gov
Eng. Amarilis Rosario, dire@drna.pr.gov
Ms. Eld Ortega, eortega@drna.pr.gov

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Sincerely,

William O. Rodríguez Rodríguez, Esq.
Secretary

CC:
Mr. Raúl Hernández Lozada, rhernandez@vivienda.pr.gov

August 20, 2024

Mrs. Holly Weyers
Regional Director, Southeast – Puerto Rico
US Geological Survey
3916 Sunset Ridge Road
Raleigh, NC 27607

Via email: hweyers@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 CPD-23-103.

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Sincerely,

William O. Rodríguez Rodríguez, Esq.
Secretary

CC:
Mr. R. Randall Schumann, rschumann@usgs.gov

August 20, 2024

Dr. Carlos R. Mellado López
Secretary
Puerto Rico Department of Health
PO Box 70184
San Juan, PR 00936-8184

Via email: drcarlos.mellado@salud.pr.gov

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 CPD-23-103.

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Sincerely,

William O. Rodríguez Rodríguez, Esq.
Secretary

CC:
Mr. Raúl Hernández Lozada, rhernandez@vivienda.pr.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 - Mayaguez

EPA REGION 2
CARIBBEAN ENVIRONMENTAL PROTECTION DIVISION

September 23, 2024

VIA EMAIL

William O. Rodriguez Rodriguez, Esq.
Secretary
Puerto Rico Department of Housing
Barbosa Ave. 606 Building Juan C. Cordero
San Juan, PR 00917
Email: W.Rodriguez@vivienda.pr.gov

RE: EPA Response to August 20, 2024 request for information of data on radon testing and levels in Puerto Rico

Dear Honorable Secretary Rodriguez Rodriguez:

This communication is in response to your letter of August 20, 2024 addressed to the Puerto Rico Department of Natural and Environmental Resources (DNER) and referred to the U.S. Environmental Protection Agency (EPA) regarding available data on radon testing and levels within Puerto Rico.

EPA's National Radon Action Plan 2021–2025 sets a goal for the nation to find, fix and prevent high indoor radon levels in 8 million buildings by 2025 and prevent 3,500 lung cancer deaths per year. Under this Plan, leaders from across multiple sectors are working together to plan, guide, and sustain nationwide action to prevent exposure to radon.

Due to the lack of data in Puerto Rico, EPA undertook an investigation in collaboration with the University of Puerto Rico-Mayaguez (UPRM) Campus, Departments of Civil Engineering and Surveying and Mechanical Engineering, to find out if radon presented a problem in Puerto Rico. Up until 2021, the only data we had for Puerto Rico was a 1993-1995 mail-in radon screening study referred to by the U.S. Geological Survey report (USGS, 1995) in which the USGS concluded that several areas of Puerto Rico have the geologic potential to generate indoor radon levels exceeding the EPA Action Level of 4 pCi/L (picocuries per liter), perhaps locally reaching very high levels above 50 pCi/L, if a house construction and ventilation allow for soil-gas radon to enter and concentrate within the structure.[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, Clales, 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/AARST, 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 legislative 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 09:41:19 -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: tdume@vivienda.pr.gov
Luz S Colon Ortiz: l.colon@vivienda.pr.gov
Aldo A. Rivera-Vazquez: aarivera@vivienda.pr.gov
Cesar O. Rodriguez: cesarrodriguez@dnra.pr.gov
Marita Rosa Olivares: maritarosaolivares@dnra.pr.gov

Exhibit 8 Critical Habitat Map

PR-CRP-000902 Elderly Service Center
#11 Ferrocarril Street, Lajas, PR 00667
Coordinates 18.04941608, -67.05761236

Legend:

Critical Habitat - Polygon Features -

Final Project Site

1:72,224

0 0.5 1 2 mi

0 0.75 1.5 3 km

Earthstar Geographics, Kadaster Netherlands, Esri, TomTom, Garmin, Foursquare, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, NPS,

February 27, 2025

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

Transmittal Letter

Exhibit 8A

March 6, 2024

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

Reviewer DAMARIS ROMAN RUIZ Digitally signed by DAMARIS ROMAN RUIZ Date: 2024.03.08 10:44:12 -04'00'

ROBERT TAWES Digitally signed by ROBERT TAWES Date: 2024.03.10 17:21:41 -04'00'

Acting Caribbean ES Field Supervisor

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

RE: USFWS Endangered Species Act Certifications
City Revitalization Program
February 2024

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

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

Project Number	Project Name
PR-CRP-000338	Mejoras a la Plaza de la Identidad
PR-CRP-000341	Remodelación Plaza Angel Mislán
PR-CRP-000521	Demolición y Construcción Plaza del Mercado
PR-CRP-000670	Centro Multiuso Distrito Moca
PR-CRP-000742	Plaza de Recreo
PR-CRP-000744	Centro de Desarrollo Artístico y Cultural de Sabana Grande
PR-CRP-000807 & PR-CRP-001111	Mejoras a Plaza Pública y Plaza del Mercado, Vieques
PR-CRP-000892	Lajas Activity Center
PR-CRP-000902	Elderly Service Center
PR-CRP-001011	Mejoras al Estacionamiento Público del Municipio de Naguabo

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

Sincerely,

Permits and Environmental Compliance Division
Office of Disaster Recovery

Self-Certification

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

Endangered Species Act Certification

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

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

The Puerto Rico Department of Housing (PRDOH) certifies that the following project **Elderly Service Center (PR-CRP-000902)**, consisting of the design and construction of a service facility for the elderly residents of the community consisting of a kitchen area, dining room, activity room, workshop room, administrative offices, medical area, social work office, food storage room, miscellaneous storage room, general storage room, bathrooms, shower area, laundry, parking with two street access (Santa Rosa Street and Ferrocarril Street), and recreational area, among others, with approximate dimensions of 1.16 acres, and an emergency generator (or equivalent redundant power source); located at #11 Ferrocarril Street, Lajas, PR 00667, coordinates -67.05761236, 18.04941608, complies with:

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

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

March 6, 2024

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

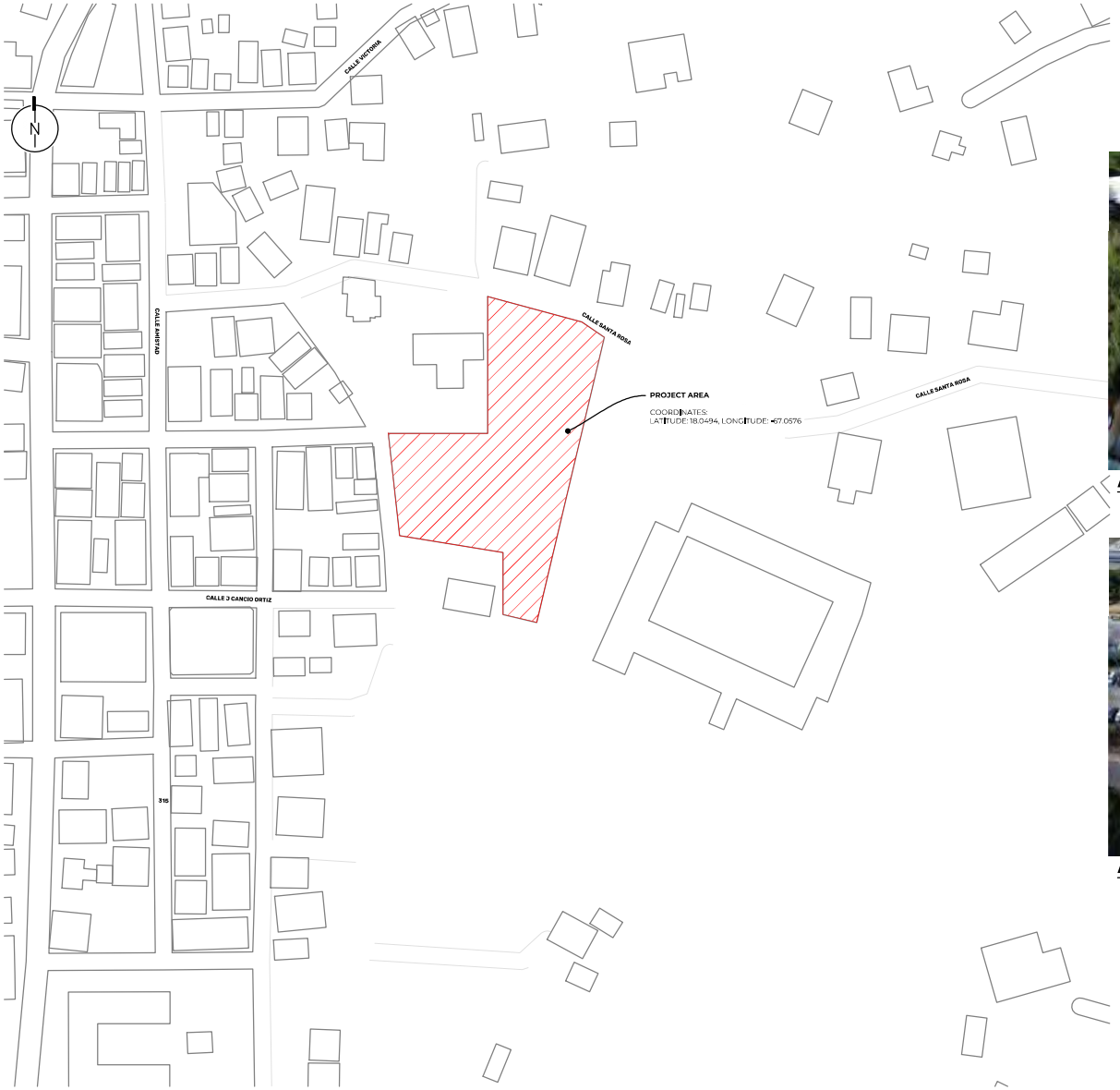
Office of Disaster Recovery
Address: P.O. Box 21365 San Juan, PR 00928
Telephone and Ext: 787-274-2527 ext. 4320
Email: environmentcdbg@vivienda.pr.gov

Date

Attachment 1

Maps

G E N E R A L S I T E P L A N



1 GENERAL SITE PLAN
SCALE: 1/64" = 1' - 0"

AERIAL VIEW

AERIAL VIEW

PROJECT ADDRESS
ELDERLY SERVICE CENTER
CALLE FERROCARRIL #11 BO. PUEBLO,
LAJAS, P.R. 00667

GPS LATITUDE/LONGITUDE:
18.04941608, -67.05761236

OWNER
LAJAS MUNICIPALITY

REGISTER No.
3 5 8 - 0 3 2 - 0 7 2 - 0 1

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
--	--	--	--	--

IMPORTANT NOTES TO THE CONTRACTOR:

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE PROCEEDING WITH WORK. IF ANY DISCREPANCIES, ERRORS OR OMISSIONS SHOULD BE ENCOUNTERED ON PLANS, CONTRACTOR SHALL NOTIFY THE ENGINEER BEFORE ANY PART OF THE WORK IS STARTED SO THAT PROPER CORRECTIONS ARE MADE. IF ENGINEER IS NOT NOTIFIED PRIOR TO COMMENCING OF THE WORK, ALL DESIGNS AND DRAWINGS HEREIN AND PRINTS ISSUED BY THE ENGINEER ARE THE PROPERTY OF THE ENGINEER AND SHALL NOT BE REUSED ON ANY OTHER LOCATION EXCEPT THE ONE FOR WHICH THEY EXPRESSLY DESIGNED. IF THESE DRAWINGS OR ANY PART THEREOF IS REPRODUCED WITHOUT THE CONSENT OF THE ENGINEER, THE PERSON WHO IS DOING WILL BE INDEBTED TO THE ENGINEER FOR HIS FULL COMMISSION. CONTRACTOR SHALL NOT USE FOR CONSTRUCTION PURPOSES ANY DRAWINGS THAT WERE ADVANCE TO HIM PRIOR TO THE BEGINNING OF CONSTRUCTION. ALL PLANS BEING USED BY CONTRACTOR SHOULD HAVE A LABEL SAYING "FOR CONSTRUCTION ONLY" SIGNED AND SEALED BY THE ENGINEER.

CERTIFICATION

I, WILLIAM MELENDEZ RIVAS, LIC. 16585, CERTIFY THAT I AM THE PROFESSIONAL WHO [MADE, DESIGNED OR PREPARED] THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 14-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY" AND WITH THE [LAW NO. 319 OF MAY 15, 1938, AS AMENDED; ACT NO. 96 OF JULY 6, 1978, AS AMENDED; AS APPLICABLE]. I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY IGNORANCE OR NEGLIGENCE, EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE OOPE.

INGENIUM PROFESSIONAL GROUP
654 Ave. Muñoz Rivera - Suite 1638
654 Plaza, San Juan, PR 00738
tel. (787) 998-4890 / 4891
Email info@ingeniumgroup

SIGNATURE

FILE

Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
GENERAL SITE PLAN

DRAWING No.
G-1.1

PAGE: 2/16

Critical Habitat for Threatened & Endangered Species [USFWS]

PR-CRP-000902
Elderly Service Center

Final Polygon Features

Final Linear Features

Proposed Polygon Features

Proposed Linear Features

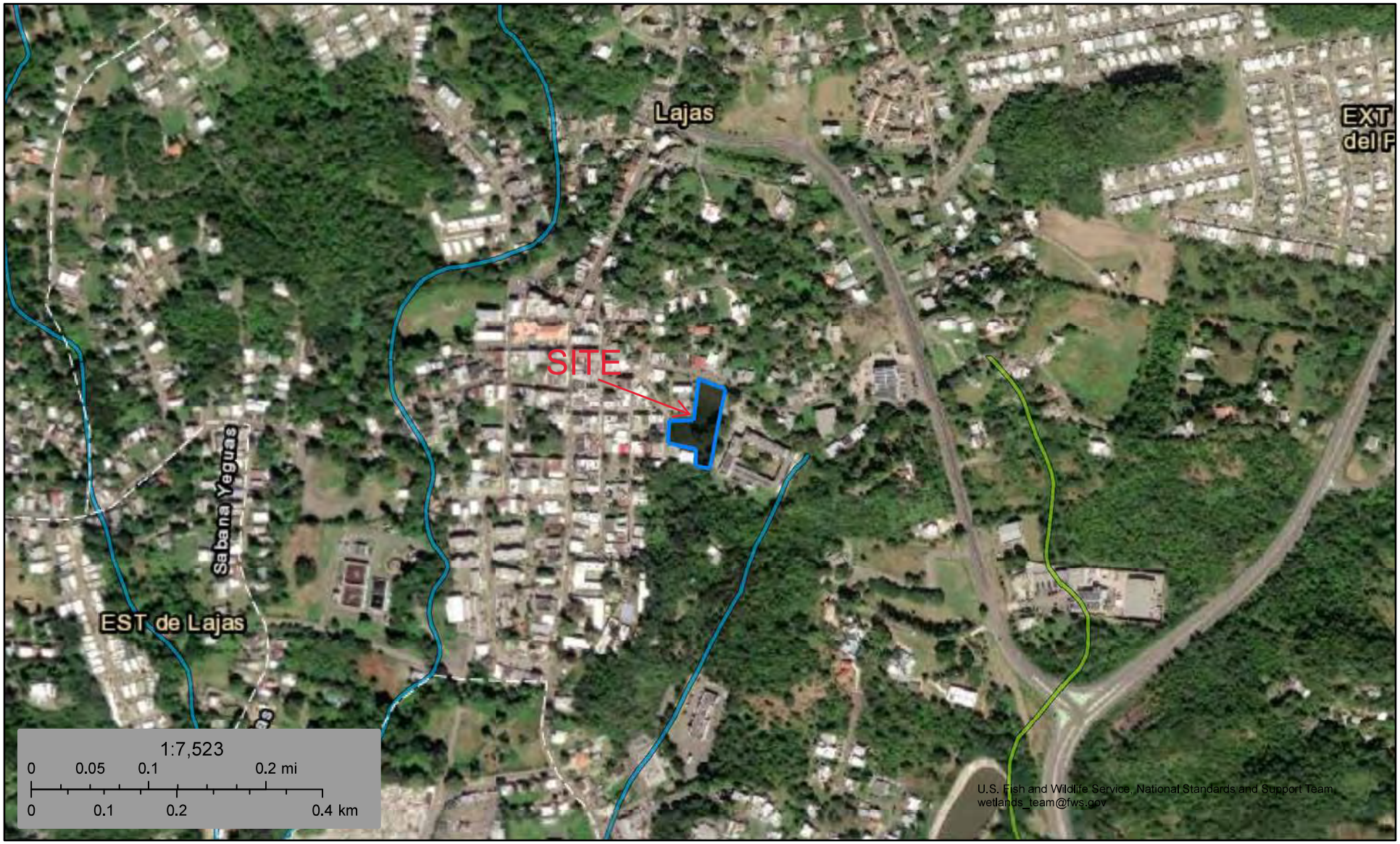
A specific geographic area(s) that contains features essential for the conservation of a threatened or endangered species and that may require special management and protection.

400ft

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

U.S. Fish and Wildlife Service
National Wetlands Inventory

PR-CRP-000902 Elderly Service Center



January 18, 2024

Wetlands

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

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

Attachment 2

IPaC Report

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

Lajas County, Puerto Rico

Local office

Caribbean Ecological Services Field Office

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

MAILING ADDRESS

Post Office Box 491
Boqueron, PR 00622-0491

PHYSICAL ADDRESS

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

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 Wherever found No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/6628	Endangered

Critical habitats

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

There are no critical habitats at this location.

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

Bald & Golden Eagles

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

Additional information can be found using the following links:

- Eagle Managementhttps://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

NOT FOR CONSULTATION

- 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 Managementhttps://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 birdshttps://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 migratorybirds of conservation concern expected to occur in this area.

There may be migratory birds in your project area, but we don���t have any survey data available to provide further direction. For additional information, please refer to the links above for recommendations to minimize impacts to migratory birds or contact your local FWS office.

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

Nationwide Conservation Measures describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary.Additional measures orpermits 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 USFWSBirds 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 theAvian Knowledge Network (AKN). The AKN data is based on a growing collection ofsurvey, 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.

NOT FOR CONSULTATION

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.

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.

NOT FOR CONSULTATION

Data precautions

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

NOT FOR CONSULTATION

Attachment 3

Supporting Documents

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

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

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

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

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

Last Revised: October 2023

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

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

Conservation Measures:

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

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

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

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

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

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

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

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

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

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

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

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

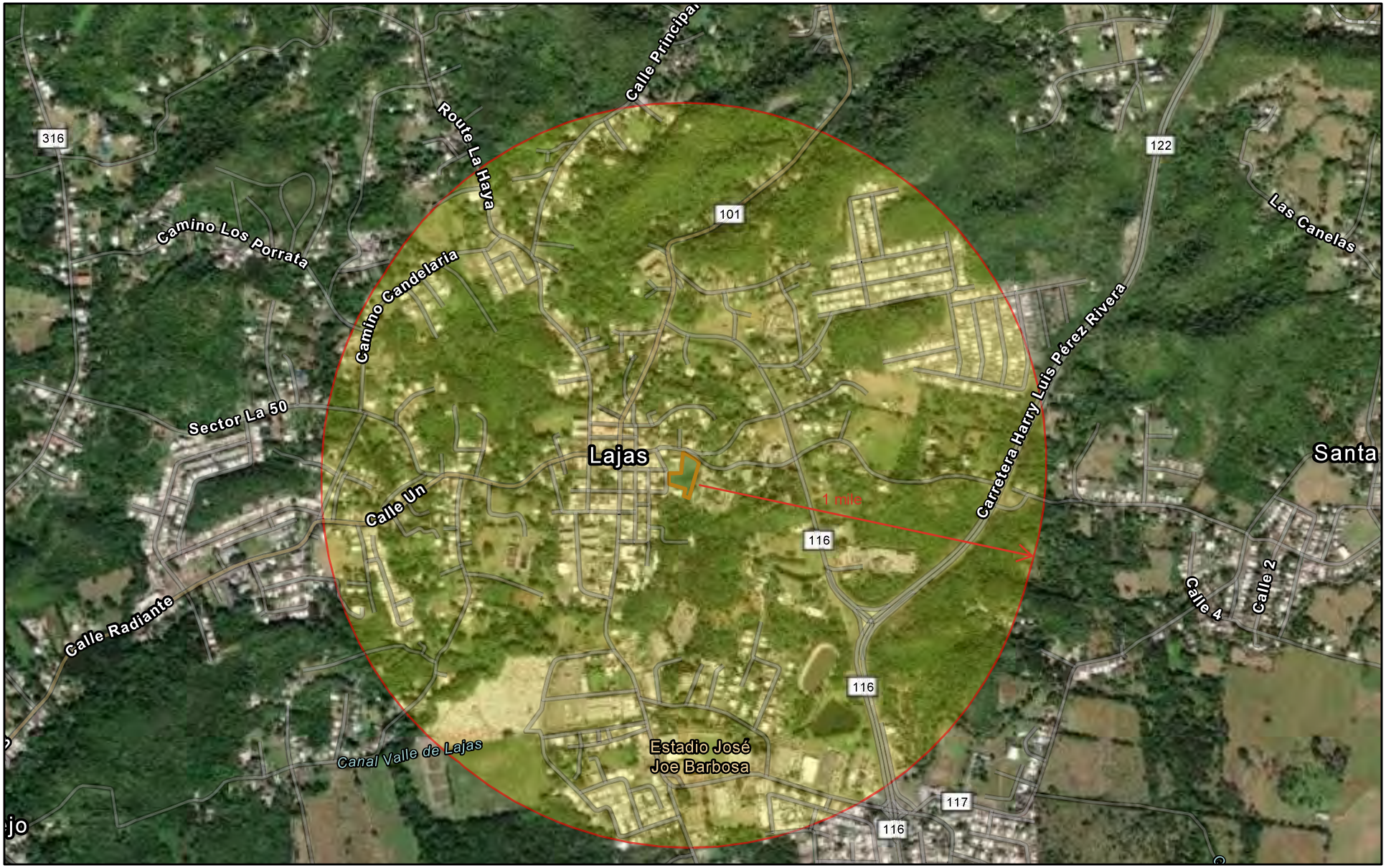
If you have any questions regarding the above conservation measures, please contact the Service:

- José Cruz-Burgos, Endangered Species Coordinator
  - Email: jose_cruz-burgos@fws.gov
  - Office phone (305) 304-1386
- Jan Zegarra, Fish and Wildlife Biologist
  - Email: jan_zegarra@fws.gov
  - Office phone (786) 933-1451

Last Revised: October 2023

Exhibit 9 Explosive and Flammable Hazards Map

PR-CRP-000902 Elderly Service Center #11
Ferrocarril Street, Lajas, PR 00667
Coordinates 18.04941608, -67.05761236



Legend:

- Project Buffer
- Project Site

N

1:15,000

0 0.1 0.2 0.4 mi

0 0.17 0.35 0.7 km

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

February 27, 2025 SVR - Tetratech

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

Soil Map—San German Area, Southwestern Puerto Rico
(Exhibit 10 Farmlands Protection Map)

Map Scale: 1:753 if printed on A portrait (8.5" x 11") sheet.

N

Meters
0 10 20 40 60

Feet
0 35 70 140 210

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

MAP LEGEND

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

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

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

Water Features
- Streams and Canals

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

Background
- Aerial Photography

MAP INFORMATION

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

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

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

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

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

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

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

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

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

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

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

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Ua	Urban land	1.1	100.0%
Totals for Area of Interest		**1.1**	**100.0%**

Exhibit 11 Base Flood Elevations (ABFE) Map

PR-CRP-000902 Elderly Service Center
#11 Ferrocarril Street, Lajas, PR 00667
Coordinates 18.04941608, -67.05761236

Legend:

Flood Hazard Area (zoom in to make visible)
- A
- AO
- AE
- Coastal A Zone
- VE
- 0.2% Annual Chance Flood Zone

- A-Floodway
- AE-Floodway
- Coastal A Zone and Floodway
- Zone/BFE Boundary

Flood Hazard Extent
- 1% Annual Chance Flood
- 0.2% Annual Chance Flood

- Limit of Moderate Wave Action (LiMWA)
- Advisory Base Flood Elevation (zoom in to make visible)
- Streamline (zoom in to make visible)
- FIRM Panels

Project Site

N

1:2,257

1/17/2024

0 0.02 0.04 0.07 mi

0 0.03 0.06 0.11 km

FEMA, Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community, Esri Community Maps Contributors, Kadaster Netherlands, Esri,

ArcGIS Web AppBuilder

FEMA | Esri Community Maps Contributors, Kadaster Netherlands, Esri, TomTom, Garmin, Foursquare, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, NPS, US Census Bureau, USFWS | https://sige.pr.gov/portal/apps/webappviewer/index.html?id=53ed4b9fa37840a88bb44d2a911512fc

OFICINA ESTATAL DE
CONSERVACIÓN
HISTÓRICA
GOBIERNO DE PUERTO RICO

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

Thursday, April 10, 2025

Lauren B Poche

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

SHPO-CF-03-04-25-03 PR-CRP-000902 (Lajas), Elderly Service Center

Dear Ms. Poche,
We acknowledge receipt of the archaeological monitoring work plan submitted on April 7, 2025, for the case mentioned above. The plan is deemed acceptable, and we concur with its implementation. Please notify the PRSHPO the archaeological monitoring start date 48 hours prior to the initiation of work.
If you have any questions concerning our comments, do not hesitate to contact our Office.

Sincerely,

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

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.

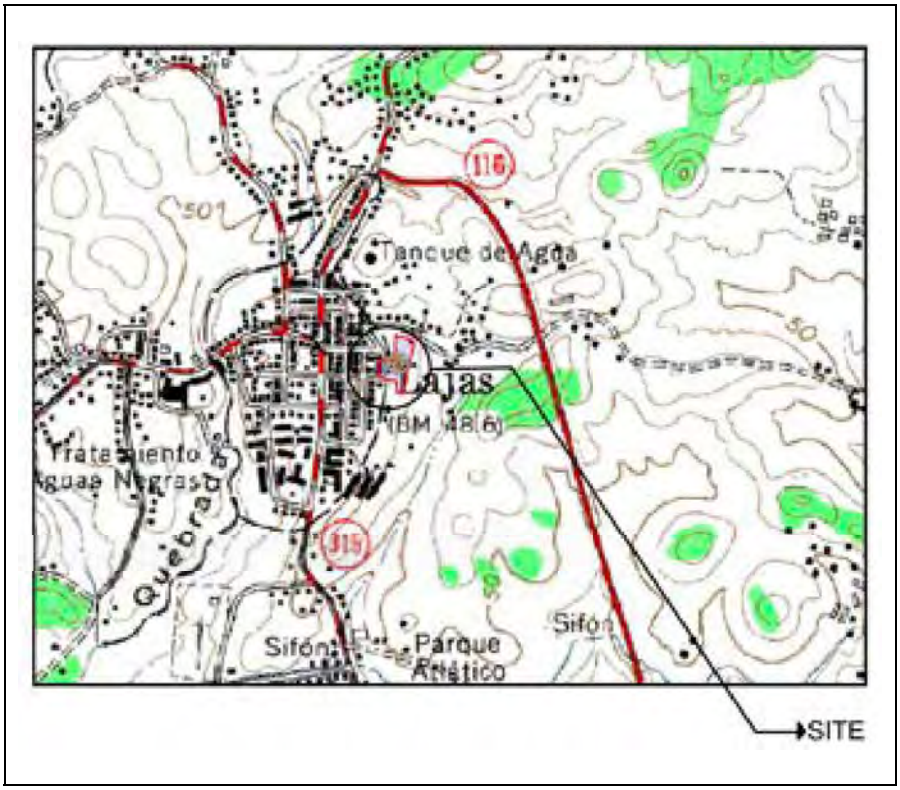
To expedite the processes, Horne Federal LLC, is authorized to submit to the State Historic Preservation Officer, documentation of projects related to both the CDBG-DR and CDBG-MIT on behalf of PRDOH.

Cordially,

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

PUERTO RICO DEPARTMENT OF HOUSING - CDBG-DR PROGRAM CITY REVITALIZATION PROGRAM (CRP) ARCHEOLOGICAL MONITORING PLAN	
SUBRECIPIENT: LAJAS MUNICIPALITY	**PROJECT ID: PR-CRP-000902**
PROJECT NAME: Elderly Service Center	**SHPO ID:** SHPO-CF-03-04-25-03 **OGPe:** 2023-507434-SRA-073963
LOCATION: #11 Ferrocarril Street Pueblo Ward, Lajas, 00667	
COORDINATES: 18.049416, -67.057612	**TPID (CADASTER): 358-032-072-01**

TYPE OF ACTIVITY: ☐ **SUBSTANTIAL REPAIR (RECONSTRUCTION)** ☒ **NEW CONSTRUCTION**	**CONSTRUCTION DATE: CA. 1950** **PROPERTY AREA (SIZE): 1.18**
QUALIFIED ARCHEOLOGIST (NAME): Victor Oppenheimer Rodriguez, SOI	**MONTH/YEAR PREPARED:** March 2025



This document complies with applicable federal and state laws, regulations, and guidelines, and is consistent with the Secretary of the Interior's (SOI) Guidelines for Archeological Documentation, the Advisory Council on Historic Preservation's (ACHP) recommendations on the recovery of significant information from archaeological sites as updated in 2009. The plan was prepared by Archaeologist *Victor Oppenheimer Rodriguez,* who meets the Professional Qualifications Standards set forth in 36 CFR Part 61

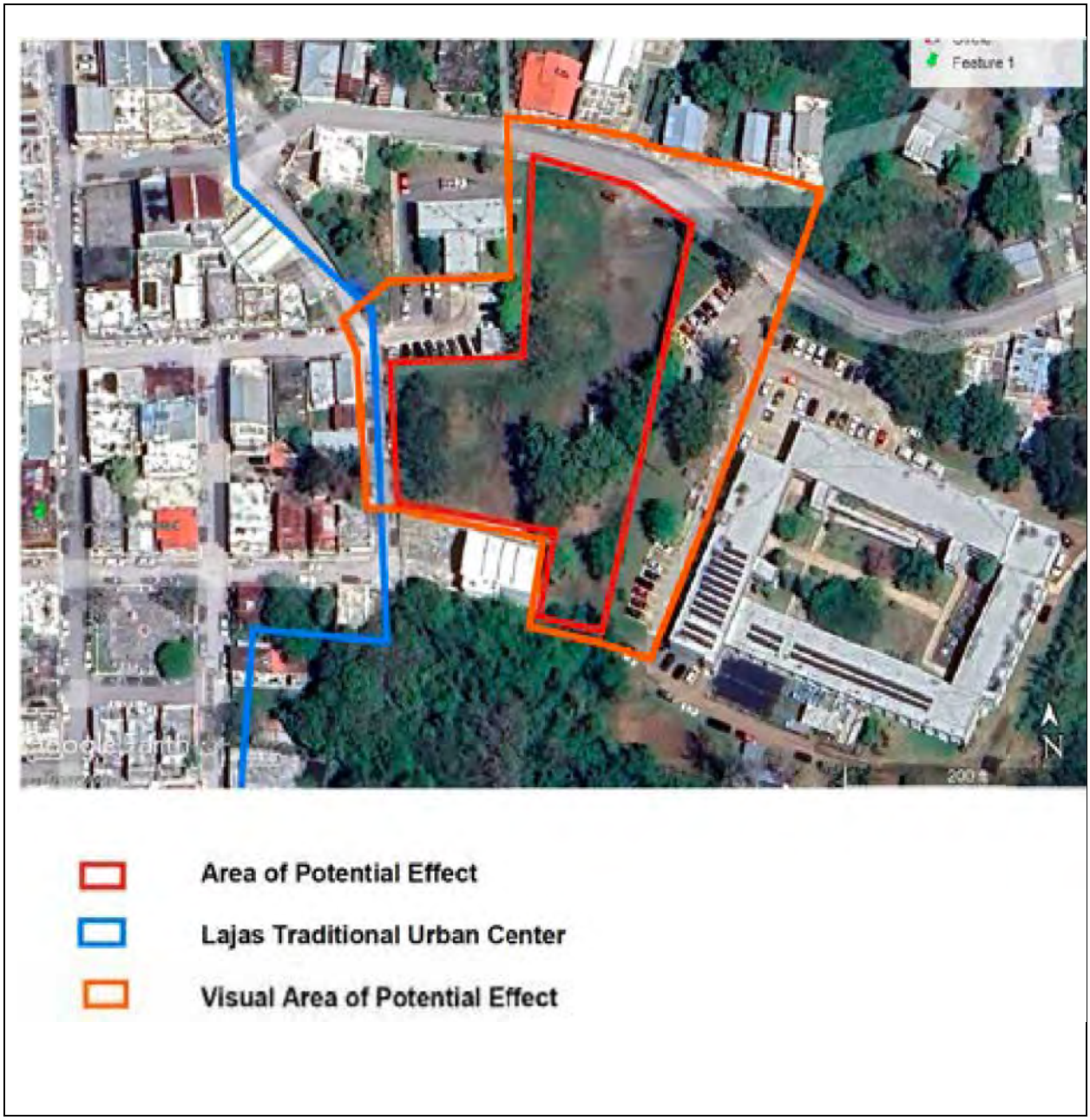
I. OVERVIEW/PREAMBLE

The Municipality of Lajas was approved Community Development Block Grant disaster recovery funds financed by the Federal Department of Housing and Urban Development in the aftermath of damages received by the 2017 Hurricanes Irma and Maria. An Agreement was established with the Puerto Rico Department of Housing (PRDOH) for the City Revitalization Program funds as part of the Community Development Block Grant for Disaster Recovery (CDBG-DR) Program. The Municipality of Lajas was approved to rehabilitate and renovate *(Elderly Service Center Project)* and strategically restore it as a resilience area for the community, while preserving the historic development of the space and of the Municipality of Lajas. The Puerto Rico State Historic Preservation Office (PRSHPO), in a letter dated March 17th, 2025, concurred with a decision of No Adverse Effect for this undertaking, conditioned to the implementation of an archaeological monitoring during all ground disturbing activities.

The undertaking will repair damages caused by hurricanes Irma and Maria and will improve the elderly community of Lajas by demolishing an abandoned concrete structure and implementing the design and construction of a facility with a kitchen area, dining room, activity room, workshop room, administrative offices, nursing office, social work office, food warehouse, disposable warehouse, general warehouse, bathrooms, shower area, laundry, parking, with two street access via Santa Rosa Street (north) and Ferrocarril Street (west), and a recreational area. The project will be limited to an 1.18 acre (4,526.50 square meters) parcel (358-031-072-01-901) and will not have an impact on other surrounding public space.

Objectives: This archaeological monitoring plan aims to: (1) institute measures to prevent indirect adverse effects to known historical resources; (2) implement the protocol to be followed in archaeological monitoring; (3) establish the procedure to be followed if previously unknown resources are identified; (4) set up the procedure to be followed if there are any unexpected or previously unanticipated adverse effects; (5) detect, assess and keep record of archaeological resources during project development; (6) retrieve as much archaeological information as possible during excavation and construction; (7) to preserve and enhance the value of the archaeological resources located and documented; and (8) if the archaeological resource cannot be preserved in situ, to conserve it through documentation (preservation by record).

Figure 1: Project location (Taken from PR-CRP-000902 Section 106 form, 2025.)



This scope of work is divided into six (6) sections and two (2) appendix. The section following this preamble discusses the proposed construction works. The third section includes a brief description of the historic properties located within the APE and of the archaeological potential of the area. The fourth section provides a detailed description of the archaeological monitoring procedure to be carried out before, during and after the construction works. Section V includes the professional qualifications of the team that will implement this monitoring plan and the last section includes the references cited. The plan closes with an appendix with a model of a monitoring daily activity sheet (Appendix A) and the SHPO determination letter (Appendix B):

- Overview/Preamble: An introductory statement that outlines the purpose and guiding principles of this document.
- Project Description: The proposed construction activities and scope of work.

- Historic Properties within the APE: A summary of the historic properties and areas of archaeological potential effects (APEs).
- Archaeological Monitoring Procedure: Details of the archaeological monitoring procedure to be executed before, during and after construction.
- Professional Qualifications: An archeologist monitor in compliance with the qualifications of the Secretary of the Interior Standard (SOI).
- Cited References: A list of cited references, including an Appendix (A) with a *Monitoring Daily Activity Shee*t template and Appendix (B) SHPO Letter.

II. PROJECT DESCRIPTION:

The direct area of potential effects (APE) was determined to be the an 1.18 acre (4,526.50 square meters) parcel (358-031-072-01-901). The site is an irregular shaped lot with access and delineated by Santa rosa Street to the north and to Ferrocarril Street to the west. The new concrete building will occupy the center of the lot and have a main entrance via Santa Rosa Street with seven parking spaces and a front garden area with gazebo and planting. A secondary entrance via Ferrocarril Street will have about 28 parking spaces, driveways, and planting areas with a garden area on the projecting southeast corner of the lot.

The proposed design program includes the demolition of an existing ca. 1950 abandoned and dilapidated concrete structure measuring 34' by 36' and the construction of a new concrete building measuring 145' by 94'. The existing two-story building has concrete walls on the first level, concrete columns and low walls on the second level and no roof. A set of concrete stairs is on the north elevation and another staircase is perpendicular to the building on the south elevation. There are no doors, and the remaining windows are metal jalousie.

This project includes reforestation activities, landscaping and the implementation of green initiatives such as recycling stations, intelligent waste management, among others. The design of the project contemplates compliance with regulations and laws for the elderly and/or people with disabilities (Americans with Disabilities Act, ADA). An emergency generator (or equivalent redundant power source), will be located at #11 Ferrocarril Street, coordinates 18.04941608, -67.05761236.

The ground disturbing activities and their approximate depth are listed below:

- **Demolition** of an existing concrete and wood structure measuring approximately 1,748 square feet.

- Preparation of approximately 13,200 square feet of existing floor to receive a **new concrete slab.**

- Excavation for the **proposed ramp** to a maximum depth of 4 feet below ground surface.

- Ground disturbance up to 4 feet deep for the **installation of a gate.**

- Excavation up to a maximum depth of 1 foot for the installation of a **generator pad**.

- **Landscaping activities** involving ground disturbance to an approximate depth of 1 foot.

- Excavation to a maximum depth of 3 to 4 feet for the **foundation** of the proposed building.
- Ground disturbance ranging from 6 to 8 feet for the installation of **sanitary infrastructure.**
- Excavation to a depth of 2 to 3 feet for the installation of **underground electrical utilities.**

III. HISTORIC PROPERTIES WITHIN THE APE:

The information below is taken from the Section 106 NHPA Effect Determination Form completed by Victor Oppenheimer Rodriguez and Maria Schmid, in 2025 (revised in 2025).

Historical Context Associated with the APE

Lajas has a rich history that continues to shape its character today. Incorporated as a village in 1824, the community began when don Jácome Pagán donated land for an auxiliary parish in the old Lajas neighborhood of San Germán. By around 1844, a cemetery had been established, and the parish became the center for baptisms, burials, and marriages. In 1878, residents formally requested that Lajas segregate from San Germán—a change completed in 1883 despite local opposition. The new municipality was planned with six streets arranged around a central plaza. Key civic structures include the old parish church (dating from 1896), the town hall (built in 1889), and the Perry School (established in 1904). At the change of sovereignty in 1899, Lajas was home to 8,789 inhabitants and boasted six schools, reflecting a community in growth.

As the town developed, daily life was marked by modest amenities and traditional practices. By the late 19th and early 20th centuries, infrastructure improvements began to reshape the community. Pedro Cobreros, the state architect, presented draft plans in 1896 to complete the construction of the parish church, which was originally built of wood. Around 1903, the railway began to pass through Lajas, beginning a new era of connectivity. Between 1910 and 1914, roads and bridges were constructed to link Lajas with neighboring towns, and by the 1920s, modern amenities such as aqueducts and electricity were introduced. The local economy was also influenced by agriculture and industry; in the 19th century, sugar mills such as Amistad, Aurora, and Resolución were in operation, and in 1907 the Palmarejo Pineapple Canning Co. was established. Further infrastructure works between 1919 and 1928 saw the construction of the Lajas-Boquerón and Lajas-Guánica highways, alongside improvements in educational facilities.

Railroad Historical Context

The arrival of the Circumferential Railway was pivotal to the region's development. Originally operated by the Puerto Rico Railroad Company (CFPR) from 1891, the line passed to the American Railroad Company of Porto Rico (ARRCo) in 1900 and later to the Puerto Rico Railroad & Transport Company (PRRT) in 1948. This railway connected major centers along a route measured from kilometer 0 at the Central Station in San Juan, with stations marked by specific kilometer indicators—a system established by ARRCo ca. 1926.

The railway's key segments include the San Germán to Lajas section which was completed in March 1908, and train service between Lajas and Ponce, which began appearing in timetables by October 18, 1903. The 41-kilometer stretch from Lajas to Yauco was inaugurated on December 31, 1906. "Lajas Campo" Station, known locally as "Estación Campo" due to its location 1.6 kilometers from the urban center, began operating in October 1903 on the Hormigueros-Yauco segment. For many years, it served as Lajas' primary rail hub until ARRCo established a signal stop at the northern end of Calle Amistad, which is approximately 0.11 mi northwest from the APE. According to Pumarada (1988: 91), only the station's floor was discovered. It was rectangular in shape, measuring 6 meters wide by 9 meters long, and no floortiles were found. In addition to Lajas Campo, the community also featured stations in Lajas Arriba and La Plata.

The "Lajas Campo" station was a key component of the southwest's rail network. It connected the main San Germán–Lajas line with the Cabo Rojo branch (from 1908 onward) and played a central role in transporting cane-laden wagons to the Guánica Sugar Mill. The facility featured approximately 12 sidings capable of storing up to 225 wagons, the island's fourth largest water tank with a capacity of 51,720 gallons, a weighing station, and a coal depot that operated until the 1930s. A bunker fuel tank for locomotives and a garage with space for six engines—doubling as a maintenance workshop—physically marked its importance. According to Juan Quiñones Borrero, the last rail operation in Ponce occurred on August 21, 1956, marking the end of an era.

Archaeological Potential of the APE

There are no individually eligible historic properties located within the APE. However, the Lajas Traditional Urban Center, an NRHP-eligible historic district, is situated directly adjacent to the APE's western boundary. This area is considered the most archaeologically sensitive portion of the project parcel due to documented references to a railroad corridor in both historical topographic maps and archival accounts (**Figure 2 and Figure 3**). The historic railway, which served as a key mode of transportation and social connectivity for the town, linked rural areas to the urban center of Lajas. As such, there is a high potential for archaeological materials associated with the railroad era to be present within the APE. This is especially likely given the completion of the San Germán–Lajas segment of the railroad around 1908, which would have intensified rail-related activity in the area and contributed to the deposition of material culture reflecting the socioeconomic dynamics of the early 20th century.

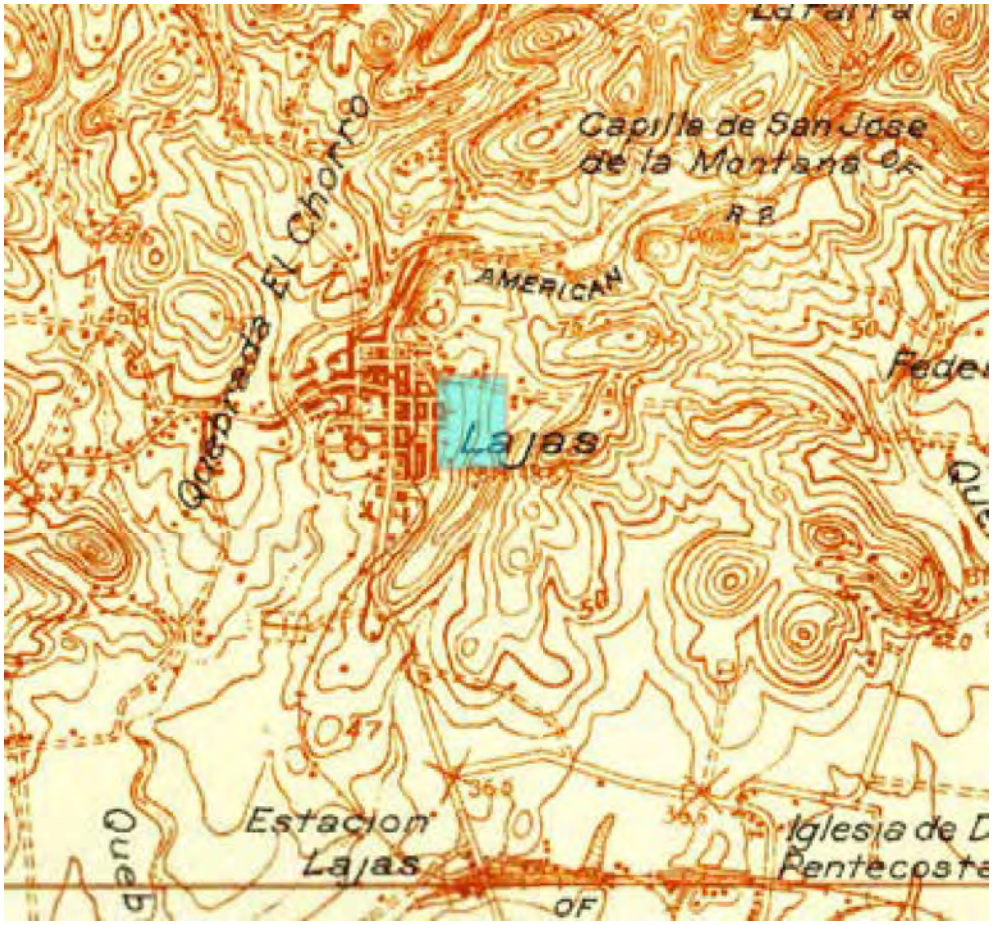


Figure 2. USGS Topographic map, ed.1937 (Scale1:25000). The approximate APE is shaded light blue. Note the railroad passing on the west side of the APE in a south-north axis. The “Ferrocarril Street” currently runs at approximately the same area that the railroad was located.

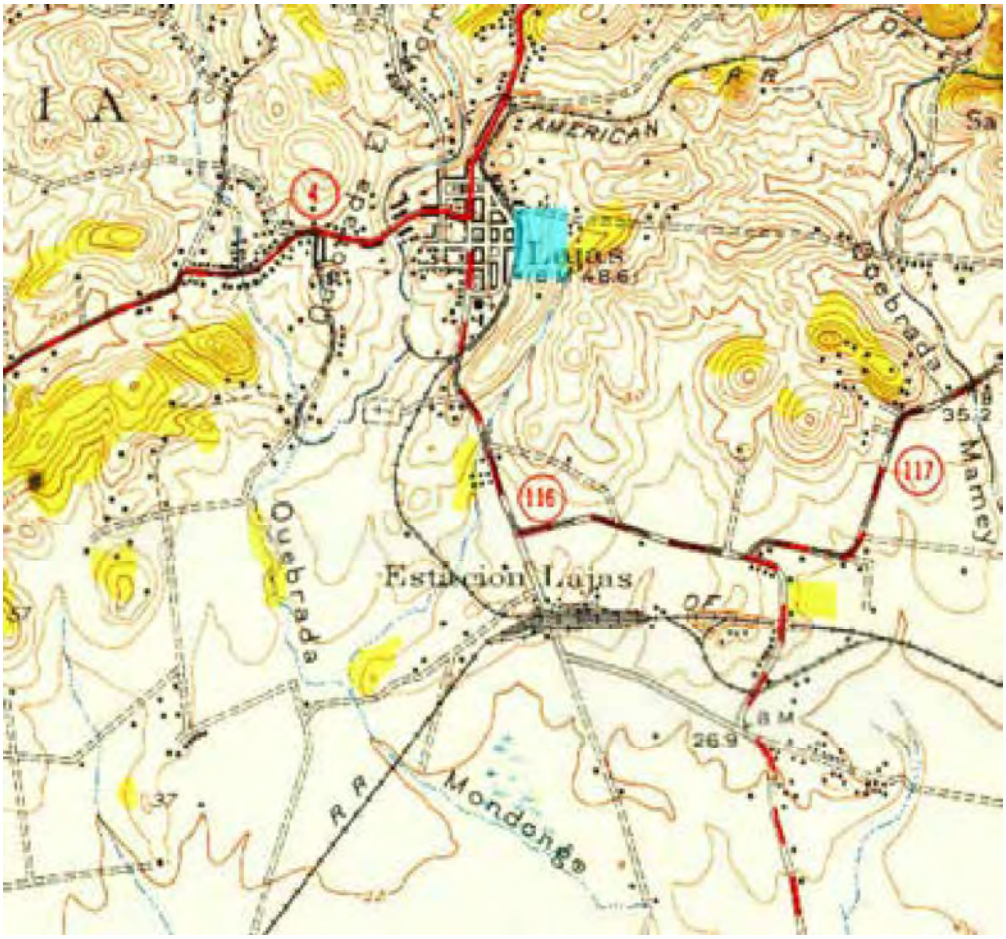


Figure 3. USGS Topographic map, ed.1952 (Scale1:30000). 19341. The approximate APE is shaded light blue. Note the railroad passing on the west side of the APE in a south-north axis. The "Ferrocarril Street" currently runs at approximately the same area that the railroad was located.

Although not documented in SHPO, the nearest known above-ground evidence of the historic railroad in proximity to the APE is a fence constructed with iron rails and crossings (**Figure 4**), located along PR-315 at kilometer 0.7 in Lajas, approximately 1,200 feet (366 meters) southeast of the APE. According to the source Ferrocarriles de Puerto Rico, this feature is part of the "Tramo Lajas a Yauco" of the American Railroad Co. of Puerto Rico. The source notes that "next to the road, where the railroad crossing once was, there is a fence made of rails and iron crossings. Until 1987, the wooden gatekeeper's house stood here, but it burned down."

Figure 3. Fence constructed with iron rails and crossings near APE. Photo from Redescubriendo a Puerto Rico (Ruiz, 2022).

Although this feature is located outside the APE, it provides the closest physical and documentary association with the railroad corridor, offering a valuable comparative model for the interpretation of any archaeological materials encountered during monitoring. Notably, the historic alignment of the railroad appears to have traversed the western edge of the APE along Ferrocarril Street, reinforcing both the high archaeological potential of the area and the types of structural or material remains—such as rail segments, ties, or foundation elements—that may be uncovered during excavation activities.

According to the historical context of the island, artifacts of ceramics, glass, and metal, bones, among others, can be found related to past societies lifestyles. Also, artifacts related to the island military role or the metropolis during the centuries of colonization could also be found. Likewise, attention should be paid to the effects that demolitions may have on historic structures eligible for the NRHP in the vicinity of the project.

IV. ARCHAEOLOGICAL MONITORING PROCEDURE

The monitoring activities can be divided into three groups: activities before the project begins, activities during construction, and post-construction activities. Monitoring is limited to activities that entail demolition and excavations. Those construction activities that do not entail excavations or earth movements do not require an archaeological monitor. However, if there are activities with heavy equipment taking place in the vicinity of historic buildings, there should be a monitor present to prevent accidents and indirect impacts accidents and indirect impacts.

A. Before Construction Begins

1. The Construction Manager (CM) will notify the Project Manager (PM), Grant Manager (GM), and Monitor of the proposed activities' start date. The PM is responsible for coordination between the CM and the SOI-qualified archaeologist who will oversee the monitoring (Monitor). The GM shall

notify the State Historic Preservation Office (SHPO) of the construction start date and the archaeology company charged with implementing this Plan.

2. Before any demolition or construction begins, the PM, CM, GM, and Monitor will have a kickoff meeting to discuss the procedure for archaeological monitoring, including the coordination protocol between the Monitor and the Contractor. The Monitor will provide an orientation on the area's cultural resources and potential resources and their proper treatment. The Monitor will also explain which project activities require archaeological monitoring.
3. The CM, PM, and construction crew will complete and sign a statement outlining the activities that may not be performed without the Monitor's presence, demonstrating their understanding and commitment to following the archaeological monitoring procedures.

B. During Demolition and Construction

1. The Monitor shall be in the field during all project activities involving demolition and ground disturbance; access and clear sightlines to all demolition and excavation activities and debris removal will be provided to the Monitor. In the event of simultaneous excavations in different areas of the project, an archaeologist should be assigned to each area.
2. The Monitor shall provide instructions directly to the construction field personnel concerning how to proceed when there is a potential to impact an archaeological resource. The construction field personnel will abide by these requests: excavate slowly, stop the excavation work to evaluate a finding, etc.
3. The Monitor shall keep a record of monitored activities. The Monitor shall fill out the Daily Record of Activities Form, including photos of the area of interest (see Appendix A). These Forms will be attached to the final report as an appendix. These forms shall be emailed to the GM during the following week in which the monitoring was conducted.
4. The Monitor shall document all archaeological remains identified during construction activities, except for previously unidentified historically significant findings (refer to B-6 below). The documentation shall include a detailed description of the discovery, context, horizontal and vertical provenience, photos, and a plan drawing. This documentation shall be done within a reasonable amount of time, trying as much as possible, not to impact on the project schedule.
    a. The documentation may require extending the contractor excavations to expose and define the finds. Associated stratigraphy will be documented and representative samples of associated artifactual material will be recovered. For structural remains, construction materials and techniques will be documented. The controlled units may vary in size according to the nature and dimensions of the archaeological find. These will be excavated by strata, cultural or natural, with vertical and horizontal control. When warranted, the removed soil will be sifted through ¼ inch mesh. The recovered artifactual material will be bagged and labeled by specific origin. It shall proceed in accordance with the protocol included in item B-7.
5. Any subsurface feature may be demolished and removed after being documented by the Monitor and approved by the GM. The information recorded will be included in the final report.
6. If the identified archaeological remains are considered historically significant– i.e., complex structures, precolonial remains or stratified deposits – the Monitor shall instruct the construction crew to (1) immediately cease work in the vicinity of the discovery, (2) take all reasonable measures to avoid or minimize harm to the property, and (3) notify the PM, CM, and GM. The GM shall immediately notify the SHPO, as per stipulation III.B.1.b. of the PA. The following protocol shall be followed:

a. The Monitor shall make a preliminary assessment of the finding. The assessment shall include a description of the discovery, location, horizontal and vertical extent (if known), context, photographs, and drawings, as deemed necessary. The assessment shall also include a work plan for implementing a National Register of Historic Places' eligibility evaluation of the exceptional remains (in other words, an evaluation of significance and integrity).
b. The assessment and NRHP-eligibility evaluation work plan shall be submitted via email to the PM and GM within 24 hours of the discovery. The GM will comment on the work plan within 24 hours of receiving it.
c. The Monitor shall implement the work plan after receiving the GM's authorization to proceed. After completing the fieldwork, the Monitor shall prepare an End of Field Report, summarizing the results. Said report should include an NRHP-eligibility determination. The End of Field Report shall be submitted via email to the PM and GM within 48 hours after completing the fieldwork.
d. The GM shall notify the SHPO of the NRHP-eligibility determination.
    i. If the finding is **not eligible** to the NRHP, the GM shall notify the SHPO and provide supporting documentation. Construction activities may resume under archaeological monitoring unless the SHPO disagrees with the NRHP determination and makes a timely objection within 48 hours of the notification.
    ii. If the finding is **eligible** to the NRHP, the criteria of adverse effect shall be applied. If the project activities do not adversely affect the finding, the GM shall notify the SHPO and provide supporting documentation. Construction activities may resume under archaeological monitoring unless the SHPO makes a timely objection within 48 hours of the notification.
    iii. If the project activities have an **adverse effect** on the NRHP-eligible finding, a Data Recovery will be implemented as a Treatment Measure per Appendix F of the PA. The Monitor shall develop a data recovery plan with a research design consistent with the Secretary of the Interior's Guidelines for Archeological Documentation (http://www.nps.gov/history/locallaw/arch_stnds_7.htm), the Advisory Council on Historic Preservation's (ACHP) recommendations on the recovery of significant information from archaeological sites as updated in 2009, at https://www.achp.gov/protectinghistoricproperties/Section_106_Archaeology_Guidance and Regulation #8932. The data recovery plan shall be submitted via email to the GM for comments. The GM shall be responsible for submitting the data recovery plan to the SHPO for comments and approval. This treatment measure does not apply to burials or human remains (refer to IV.D of this work plan).

7. Processing of archaeological artifacts, if any, will be conducted concurrently with the field work. A summary of these activities shall be included in the monthly report. Artifacts shall be curated and processed in accordance with the standards set forth in 36 CFR Part 79 Curation of Federally-Owned and Administered Archaeological Collections.
    a. Artifacts shall be washed and sorted. Materials such as ceramics, lithics, shell, bone, glass, metal, and others, should be subject to general analysis considering aspects such as material, manufacture, style, function, type, variety, use, and others. Due to their nature, some of these materials require specialized analysis such as studies of malacology, zooarchaeology, bioarcheology, among others, which should be carried out by specialists. The classification scheme used in the classification will be chosen by the archaeologist

according to the context, type of material recovered and previous experience. The classification scheme shall be referenced with available bibliographic references.

b. The materials laboratory shall include a quantitative, qualitative, and comparative analysis of all archaeological materials recovered during archaeological monitoring. An inventory of artifacts by category, and a catalog of artifacts by material type shall be prepared.
c. Photographic documentation shall be made of representative artifacts in the collection.
d. If necessary, documentary research will be conducted for analysis and interpretation of artifacts and other finds.
e. Samples from strata or from cultural elements must be properly packaged, labeled and preserved. The data resulting from their analysis must be included in the final report.

8. If any additional construction activities are added or design changes are made after the project has begun, the CM and PM, prior to performing the work, shall inform the GM and the Monitor. The Monitor, in conjunction with GM, shall evaluate these activities and apply the adverse effect criteria. If it is determined that the effect is adverse, the archaeologist will provide recommendations on how to avoid, minimize, or mitigate the adverse effect. These recommendations will be consulted with the SHPO prior to implementation. The SHPO will have 15 days to comment on the recommendations. If no communication is received within that time frame it will be assumed that the SHPO has no objection and concurs with the recommendations outlined.
9. If during construction activities a historic property is affected in an unanticipated manner, the CM shall stop work immediately, and inform the PM, GM, and Monitor. The Monitor, in conjunction with GM, shall evaluate the unanticipated effects and apply the adverse effect criteria within no more than 24 hours. If the effect is determined to be adverse, the Monitor and GM will provide recommendations on how to avoid, minimize, or mitigate such adverse effects. The GM shall consult with the SHPO on the recommendations prior to implementation. The SHPO will have 48 hours to comment on the recommendations. If no communication is received within that timeframe, it will be understood that the SHPO has no objection and concurs with the recommendations outlined.

C. After Construction Ends

1. Upon the completion of archaeological monitoring, the PM and GM shall be notified. The estimated date of delivery of the final report shall be indicated in the said notification.
2. A Final Archaeological Monitoring Report shall be prepared and submitted by the date stipulated in the End of Field Report. This report shall include a description of the work performed, the construction activities that were archaeologically monitored, and documentation of unexpected finds, if any. It should also include final documentation of the condition of the properties along with a comparison of the final condition of the structures to the initial condition

D. Human Remains

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

1. Stop work immediately.
2. Notify the local law enforcement office and coroner/medical examiner following applicable Commonwealth statute(s).
3. Protect the remains from any harm.

4. The GM shall be responsible for notifying the SHPO within twenty-four (24) hours of identifying human remains.
5. The services of a physical anthropologist or specialist in bioarcheology will be required.

V. PROFESSIONAL QUALIFICATIONS:

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

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

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

VI. CITED REFERENCES:

Advisory Council on Historic Preservation

2009 ACHP recommendations of recovery of significant information from archaeological sites https://www.achp.gov/protectinghistoricproperties/Section_106_Archaeology_Guidance.

Victor Oppenheimer Rodriguez, SOI / Maria Schmid, SOI

2025 Puerto Rico 2017 Disaster Recovery, CDBG-DR Program.
City Revitalization Program (City-Rev). Section 106 - NHPA Effect Determination Form.

National Park Service

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

Ruiz, Hector. "Estaciones Ferroviarias: Ferrocarril de Circunvalación." Redescubriendo a Puerto Rico. https://sites.google.com/view/redescubriendoapuertorico/ferrocarriles/estaciones-ferroviarias/estaciones-tramo-lajas-ponce#h.fc69yjptua0z

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

IPG INGENIUM Professional Group

2025 60% Design Drawings. Elderly Service Center, Municipality of Lajas, Puerto Rico. PR-CRP-000902.

VII. APPENDIX A:

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM CITY REVITALIZATION PROGRAM (CITY-REV) Section 106 NHPA Effect Determination	
Project Name:	
Case ID:	City:
Project Coordinates:	

SOI Qualified- Archaeologist:
Archaeologist Assistant:
Date of Monitoring:
Work Hours:

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

Puerto Rico 2017 Disaster Recovery, CDBG-DR Program City Revitalization Program (City-Rev) Section 106 NHPA Effect Determination	HOUSING
Project Name:	
Case ID:	City:
Project Coordinates:	

Site Photos	
Direction of Photo: **Description:**	
Direction of Photo: **Description:**	

APPENDIX B: Puerto Rico State Historic Preservation Office (PRSHPO) letter

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

Monday, March 17, 2025

Lauren B Poche

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

SHPO-CF-03-04-25-03 PR-CRP-000902 (Lajas), Elderly Service Center

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 concurs with your determination that the proposed project will have no adverse effect on historic properties for this undertaking conditioned to a archaeological monitoring during all ground disturbing activities for the project. An archaeology monitoring work plan must be summited to PRSHPO for its review and concurrence before any works initiates.
If you have any questions concerning our comments, do not hesitate to contact our Office.

Sincerely,

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

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

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If you have any questions concerning our comments, do not hesitate to contact our Office.

Sincerely,

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

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

From: Kristin Sanders
To: Gloria Ortiz; Evelyn Villalobos; Santiago Gala
Subject: SHPO-CF-03-04-25-03/PR-CRP-000902
Date: Monday, March 10, 2025 2:41:00 PM
Attachments: CRP 000902 Elderly Service Center_Entrega Conceptual 30_Published d.pdf

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Good afternoon. The PM just notified us that the drawings that were submitted for SHPO-CF-03-04-25-03/PR-CRP-000902, Elderly Service Center in Lajas are not the most recent drawings. Attached are the correct drawings, if it is possible for you to replace them in the submission. Please let me know if you need me to do anything additional on my end. I apologize for the inconvenience.

Best,
Kristin

Kristin Sanders
Historic Preservation Manager, Government Services | HORNE
D: 939.200.2005 O: 888.821.0202
HORNE.com LinkedIn Twitter Insights

PR-CRP-00902 ELDERLY SERVICE CENTER
CALLE FERROCARRIL #11 BO. PUEBLO, LAJAS, P.R. 00667

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GENERAL		
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2	G101	GENERAL SITE PLAN
SURVEY - MAPPING DRAWINGS		
3	V100	AS BUILT AND TOPOGRAPHY PLAN
4	V101	BOUNDARY AREA DETERMINATIN SURVEY PLAN
5	AS100	EXISTING SITE PLAN_AS BUILT
6	AS101	EXISTING GROUND FLOOR PLAN_AS BUILT
7	AS102	EXISTING SITE PROFILES
8	AS103	EXISTING SITE PROFILES
9	AS104	EXISTING SITE PROFILES
10	GR100	PHOTO DOCUMENTATION
CIVIL DRAWINGS		
11	C100	PROPOSED DEMOLITION SITE PLAN
12	C101	DEMOLITION TYPICAL DETAILS
ARCHITECTURAL DRAWINGS		
13	A001	ARCHITECTURAL NOTES
14	A002	PROPOSED GROUND SITE PLAN
15	A100	PROPOSED GROUND FLOOR PLAN_BLDG 01.02 & 03
16	A101	PROPOSED REFLECTED CEILING
17	A102	PROPOSED ROOF PLAN
18	A200	PROPOSED SECTIONS
19	A201	PROPOSED SECTIONS
20	A202	PROPOSED SECTIONS
21	A300	PROPOSED ELEVATIONS
22	A400	LOBBY_BLOW UP
23	A401	RESTROOMS [ADMIN AREA]_BLOW UP
24	A402	RESTROOMS [NURSING & KITCHEN]_BLOW UP
25	A403	RESTROOMS_BLOW UP
26	A404	RESTROOMS_BLOW UP
27	A405	KITCHEN_BLOW UP
28	A500	FINISHES SCHEDULE
STRUCTURAL DRAWINGS		
29	S101	STRUCTURAL GENERAL NOTES
30	S102	PARTIAL FOUNDATION PLAN & KEY PLAN
31	S103	GAZEBO STRUCTURAL DETAILS
32	S104	STRUCTURAL NOTES SECTIONS AND DETAILS
33	S105	SECTIONS AND DETAILS
34	S106	TYPICAL CONCRETE DETAILS
35	S107	TYPICAL CONCRETE DETAILS
36	S108	TYPICAL CONCRETE DETAILS
37	S109	TYPICAL CONCRETE DETAILS
38	S110	ROOF DRAINAGE PLAN AND BEAM ELEVATION
RENDERS		
39	R100	3D VISUALIZATIONS

CONCEPTUAL PHASE 30%
NOT FOR CONSTRUCTION

GENERAL NOTES

1. THE PRECISE LOCATION OF ALL POWER, GAS, TELEPHONE, WATER AND DRAIN SHALL BE VERIFY IN FIELD. CONTRACTOR SHALL CONTRACT UTILITIES. LOCATE SHUT OFF VALVES AND PROCEED SAFELY ACCORDING TO THE RECOMMENDATION OF EACH UTILITY. CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED BY INTERRUPTION OF THESE LINES AT NO COST TO THE OWNER.

2. CONTRACTOR SHALL VISIT THE SITE AND VERIFY ALL CONDITIONS AND DIMENSIONS AND REPORT ALL DISCREPANCIES TO THE ARCHITECT, PROJECT MANAGER OR INSPECTOR PRIOR TO THE COMMENCEMENT OF WORK.

3. WHERE DIMENSIONS ARE UNCLEAR, CONSULT THE ARCHITECT, PROJECT MANAGER OR INSPECTOR. CONTRACTOR SHALL BE HELD RESPONSIBLE FOR HIS WORK. ALL DIMENSIONS SHALL BE FIELD VERIFIED WHERE POSSIBLE. ALL DIMENSIONS ARE FINISHES DIMENSIONS UNLESS OTHERWISE INDICATED. ALL NEW WINDOW AND DOOR OPENINGS MUST BE VERIFIED ON SITE FOR DIMENSIONS ACCURACY BEFORE ORDERING MATERIAL.

4. THE CONSTRUCTION DRAWINGS AND THE TECHNICAL SPECIFICATIONS ARE COMPLEMENTARY TO EACH OTHER. THE CONTRACTOR MUST ASSUME INFORGOMATION PRESENT IN EITHER AND IN BOTH DOCUMENTS.

5. THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, TOOLS AND EQUIPMENT NECESSARY TO COMPLETE THE BUILDING AS SHOWN. MATERIALS AND WORKMANSHIP SHALL BE OF THE HIGHEST QUALITY EMPLOYED BY THE RESPECTIVE TRADES. EACH SUB-CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING, REFINISHING ANY AND ALL EXISTING WORK ALTERED BY EITHER OPERATION.

6. CONTRACTOR AND HIS SUB-CONTRACTORS SHALL TURN THE PROJECT OVER TO OWNER FREE FROM ALL CONSTRUCTION DEBRIS AND CLEAN

7. CONTRACTOR SHALL REPLACE AND/OR REPAIR PAVEMENT, STRUCTURES OR EQUIPMENT DETERIORATED OR DAMAGED IN ANY WAY BY THE CONSTRUCTION PROCESS WETHER OR NOT SPECIFICALLY STATED IN THE DRAWINGS.

8. CONTRACTOR SHALL TAKE MAXIMUM PRECAUTIONS IN ORDER TO PREVENT DAMAGE TO EQUIPMENT OR ADJACENT PROPERTY AND AVOID INJURIES TO PERSONNEL AND PEOPLE.

9. IT IS UNDERSTOOD THAT WHILE NOT EVERY DETAIL OF THE WORK IS SHOWN ON THE DRAWINGS OR SPECIFICATIONS, THE WORK INCLUDES ITEM INFERABLE FROM THE CONTRACTOR DOCUMENT. THE OWNER SHALL NOT BE HOLD RESPONSIBLE FOR THE ABSENCE OF ANY DETAIL THE CONTRACTOR MAY REQUIRE FOR ANY CONSTRUCTION WHICH MAY BE FOUND NECESSARY AS THE WORK PROGRESS. IF ANY ITEM OR SYSTEM IS EITHER SHOWN OR SPECIFIED, ALL MATERIAL AND EQUIPMENT NORGOMALLY FURNISHED WITH SUCH ITEMS AND/OR NEED TO MAKE A COMPLETE OPERATION INSTALLATION, SHALL BE PROVIDED WETHER MENTIONED OR NOT, OMITTING ONLY SUCH PARTS AS ARE SPECIFICALLY EXCEPTED.

10. THE DRAWINGS HAVE BEEN PREPARED ON THE BASIS OF OBSERVATION OF EXISTING CONDITIONS. THE ARCHITECT ACCEPTS NO RESPONSIBILITY FOR CONCEALED SITE CONDITIONS.

11. PAINT: ALL SURFACE MUST BE SCRAPES, CLEANED, PRIMED BEFORE PAINTED. PAINT COLOR SCHEME TO BE SELECTED BY DESIGN AND CONSTRUCTION OFFICE COORDINATOR.

12. FURNISH GRAPHICS ON DRAWINGS ARE FOR SPACE DISTRIBUTION AND PLANNING PURPOSE, NOT PART OF PROJECT CONSTRUCTION, UNLESS IT IS MENTIONED TO BE REQUIRED.

LOCATION

OBTAINED FROM: GOOGLE EARTH IMAGE

CATASTRO : 358-032-072-01

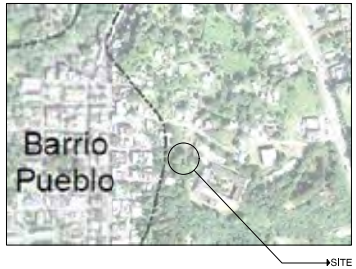
COORDENADAS: LAT: 18.04941608, LON: -67.05761236

TOPOGRAPHY

OBTAINED FROM: JUNTA DE PLANIFICACIÓN DE PUERTO RICO | GEOLOCALIZADOR- MIPR

JUNTA DE PLANIFICACIÓN. PROGRAMA DE SISTEMA DE INFORDMACIÓN GEOGRÁFICA | ESRI, HERE, GARDOMIN, INCREMENT P, NGA, USGS,

Calificación Oficialiazacion del geodato en proceso, favor de referirse al mapa de calificacion vigente.
Clasificación PT Oficialiazacion del geodato en proceso, favor de referirse al mapa de calificacion vigente.
Clasificación PUT SU (SUELO URBANO)



FLOOD MAP

OBTAINED FROM: FEMA FLOOD MAP SERVICE CENTER/MIPR

Zona Inund. Advisory

Zona Inundabilidad (firm) X (94.8%) , A (5.2%)
Panel Inundabilidad (advisory)

Floodway No ubica en floodway

Suelo JaC (54.0%) DeD (46.0%)

SUBMITTAL REVIEW
APPROVED
REVIEW AND/OR APPROVAL NEITHER EXTENDS NOR ALTERS ANY CONTRACTUAL OBLIGATIONS OF THE ARCHITECT OR CONTRACTOR. REFER TO THE GENERAL CONDITIONS OF THE CONTRACT AND/OR DIVISION 1 OF THE SPECIFICATION FOR A DESCRIPTION OF THIS SUBMITTAL RESPONSE AND THE CONTRACTUAL SIGNIFICANCE.

SUBMITTAL REVIEW
APPROVED AS NOTED
REVIEW AND/OR APPROVAL NEITHER EXTENDS NOR ALTERS ANY CONTRACTUAL OBLIGATIONS OF THE ARCHITECT OR CONTRACTOR. REFER TO THE GENERAL CONDITIONS OF THE CONTRACT AND/OR DIVISION 1 OF THE SPECIFICATION FOR A DESCRIPTION OF THIS SUBMITTAL RESPONSE AND THE CONTRACTUAL SIGNIFICANCE.

SUBMITTAL REVIEW
REVISE AND RESUBMIT
REVIEW AND/OR APPROVAL NEITHER EXTENDS NOR ALTERS ANY CONTRACTUAL OBLIGATIONS OF THE ARCHITECT OR CONTRACTOR. REFER TO THE GENERAL CONDITIONS OF THE CONTRACT AND/OR DIVISION 1 OF THE SPECIFICATION FOR A DESCRIPTION OF THIS SUBMITTAL RESPONSE AND THE CONTRACTUAL SIGNIFICANCE.

SUBMITTAL REVIEW
REJECTED
REVIEW AND/OR APPROVAL NEITHER EXTENDS NOR ALTERS ANY CONTRACTUAL OBLIGATIONS OF THE ARCHITECT OR CONTRACTOR. REFER TO THE GENERAL CONDITIONS OF THE CONTRACT AND/OR DIVISION 1 OF THE SPECIFICATION FOR A DESCRIPTION OF THIS SUBMITTAL RESPONSE AND THE CONTRACTUAL SIGNIFICANCE.

PROJECT ADDRESS:
ELDERLY SERVICE CENTER
CALLE FERROCARRIL #11 BO. PUEBLO,
LAJAS, P.R. 00667

GPS LATITUDE/LONGITUDE:
18.04941608, -67.05761236

OWNER
LAJAS MUNICIPALITY

REGISTER No.
358-032-072-01

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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IMPORTANT NOTES TO THE CONTRACTOR:
CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE PROCEEDING WITH WORK. IF ANY DISCREPANCIES, ERRORS OR OMISSIONS SHOULD BE ENCOUNTERED ON PLANS, CONTRACTOR SHALL NOTIFY THE ENGINEER BEFORE ANY PART OF THE WORK IS STARTED SO THAT PROPER CORRECTIONS ARE MADE. IF ENGINEER IS NOT NOTIFIED PRIOR TO COMMENCING OF THE WORK, ALL DESIGNS AND DRAWINGS HEREIN AND PRINTS ISSUED BY THE ENGINEER ARE THE PROPERTY OF THE ENGINEER AND SHALL NOT BE REUSED ON ANY OTHER LOCATION EXCEPT THE ONE FOR WHICH THEY EXPRESSLY DESIGNED. IF THESE DRAWINGS OR ANY PART THEREOF IS REPRODUCED WITHOUT THE CONSENT OF THE ENGINEER, THE PERSON WHO IS DOING WILL BE INDEBTED TO THE ENGINEER FOR HIS FULL COMMISSION. CONTRACTOR SHALL NOT USE FOR CONSTRUCTION PURPOSES ANY DRAWINGS THAT WERE ADVANCE TO HIM PRIOR TO THE BEGINNING OF CONSTRUCTION. ALL PLANS BEING USED BY CONTRACTOR SHOULD HAVE A LABEL SAYING "FOR CONSTRUCTION ONLY" SIGNED AND SEALED BY THE ENGINEER.

CERTIFICATION
I, WILLIAM MELENDEZ RIVAS, LIC. 16,883, CERTIFY THAT I AM THE PROFESSIONAL WHO [MADE, DESIGNED OR PREPARED] THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 14-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY" AND WITH THE [LAW NO. 319 OF MAY 15, 1938, AS AMENDED; ACT NO. 96 OF JULY 6, 1978, AS AMENDED; AS APPLICABLE]. I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY IGNORANCE OR NEGLIGENCE EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE OOPC.

INGENIUM PROFESSIONAL GROUP
654 Ave. Muñoz Rivera - Suite 1539
654 Plaza, San Juan, PR 00918
Tel. (787) 918-5995 / 5991
Email: info@ingenium.group

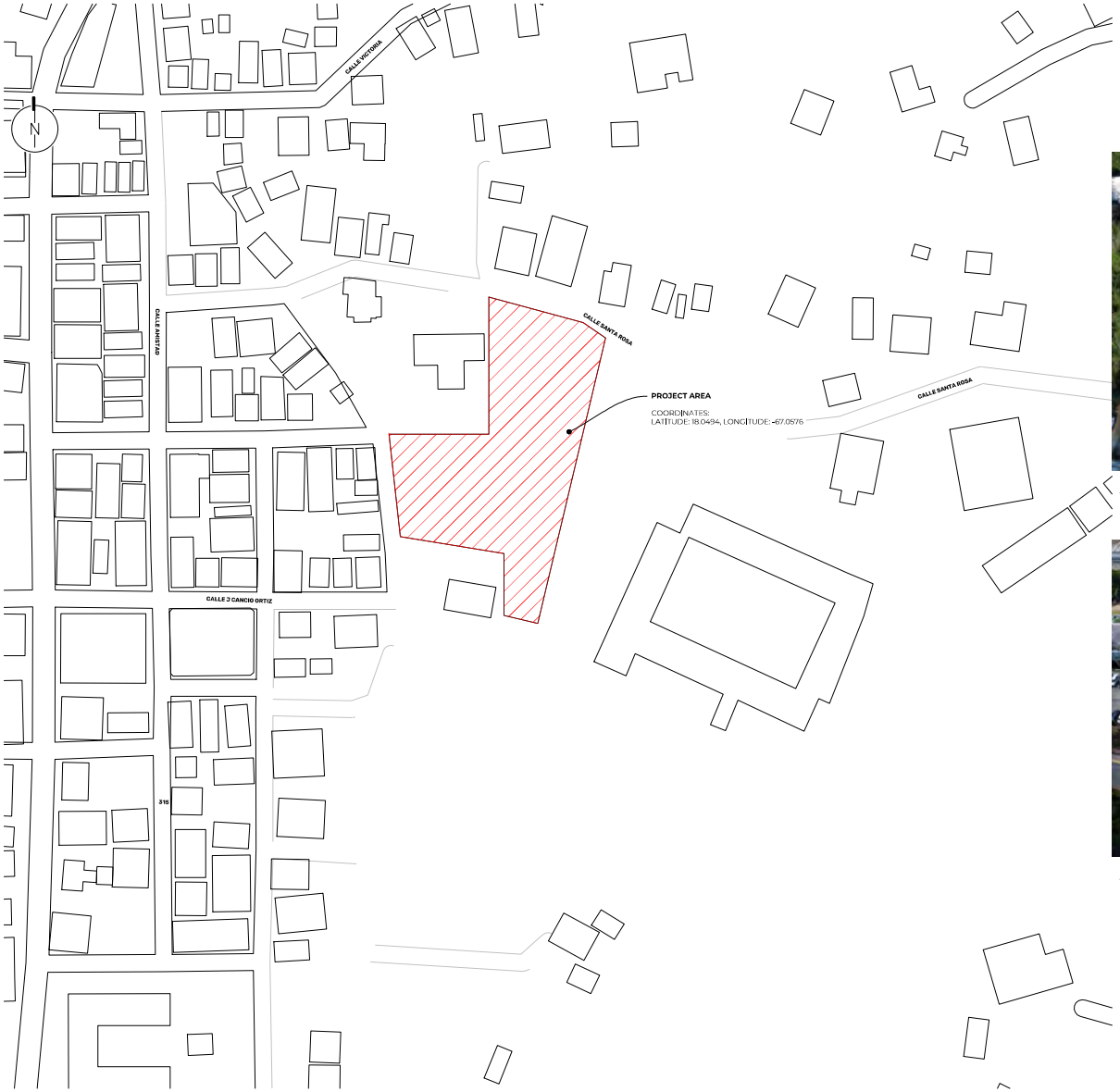
SIGNATURE
William Meléndez Rivas
Puerto Rico

FILE
Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
TITLE SHEET

DRAWING No.
G100

G E N E R A L S I T E P L A N



1 GENERAL SITE PLAN
SCALE: 1/64" = 1' - 0"

AERIAL VIEW

AERIAL VIEW

PROJECT ADDRESS
ELDERLY SERVICE CENTER
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INGENIUM PROFESSIONAL GROUP
654 Ave. Muñoz Rivera - Suite 1608
654 Plaza, San Juan, PR 00918
Tel. (787) 918-5995 / 5991
Email: info@ingenium.group

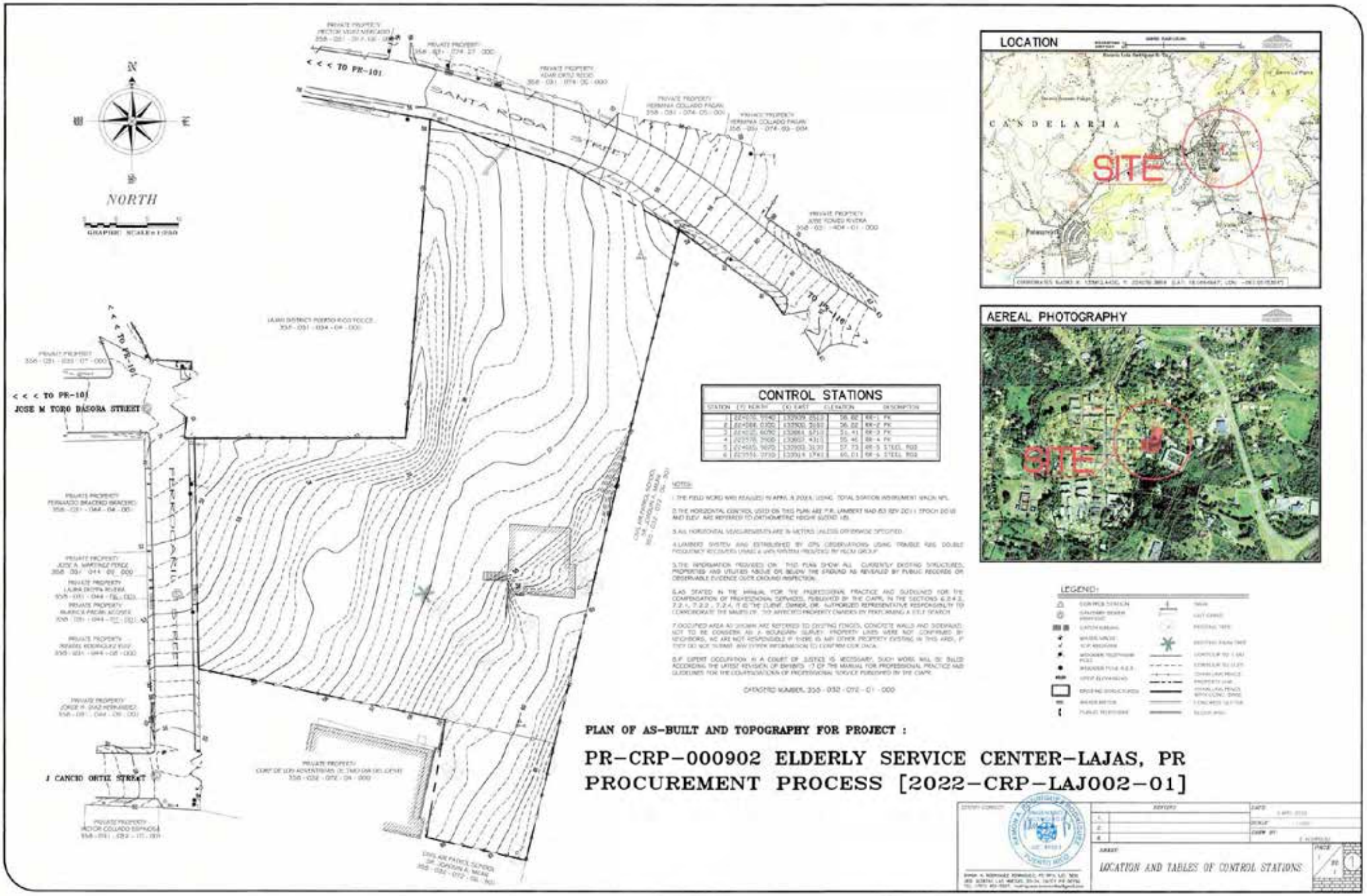
SIGNATURE

William Meléndez Rivas
Ingeniero Licenciado
Lic. 16,882 P.E.
Puerto Rico

FILE
Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
GENERAL SITE PLAN

DRAWING No.
G101



CONTROL STATIONS

STATION	(Y) NORTH	(X) EAST	ELEVATION	DESCRIPTION
1	[illegible]	[illegible]	56.82	RR-1 PK
2	[illegible]	[illegible]	56.82	RR-2 PK
3	[illegible]	[illegible]	51.41	RR-3 PK
4	[illegible]	[illegible]	55.46	RR-4 PK
5	[illegible]	[illegible]	57.73	RR-5 STEEL ROD
6	[illegible]	[illegible]	60.01	RR-6 STEEL ROD

NOTES:

1. THE FIELD WORK WAS REALIZED IN APRIL 8 2024, USING TOTAL STATION INSTRUMENT MAGN NPL.

2. THE HORIZONTAL CONTROL USED ON THIS PLAN ARE P.R. LAMBERT NAD 83 REV 2011 EPOCH 2010 AND ELEV. ARE REFERRED TO ORTHOMETRIC HEIGHT SLEEVE 18.

3. ALL HORIZONTAL MEASUREMENTS ARE IN METERS UNLESS OTHERWISE SPECIFIED.

4. LAMBERT SYSTEM WAS ESTABLISHED BY GPS OBSERVATIONS USING TRIMBLE R2S DOUBLE FREQUENCY RECEIVERS USING A GPS SYSTEM PROVIDED BY FLCM GROUP.

5. THE INFORMATION PROVIDED ON THIS PLAN SHOW ALL CURRENTLY EXISTING STRUCTURES, PROPERTIES AND UTILITIES ABOVE OR BELOW THE GROUND AS REVEALED BY PUBLIC RECORDS OR OBSERVABLE EVIDENCE OVER GROUND INSPECTION.

6. AS STATED IN THE MANUAL FOR THE PROFESSIONAL PRACTICE AND GUIDELINES FOR THE COMPENSATION OF PROFESSIONAL SERVICES, PUBLISHED BY THE CIAPR, IN THE SECTIONS 6.2.4.2, 7.2.1, 7.2.2, 7.2.4, IT IS THE CLIENT, OWNER, OR AUTHORIZED REPRESENTATIVE RESPONSIBILITY TO CORROBORATE THE MAJOR OF THE AFFECTED PROPERTY OWNERS BY PERFORMING A TITLE SEARCH.

7. OCCUPIED AREA AS SHOWN ARE REFERRED TO EXISTING FENCES, CONCRETE WALLS AND SIDEWALKS. NOT TO BE CONSIDER AS A BOUNDARY SURVEY. PROPERTY LINES WERE NOT CONFIRMED BY NEIGHBORS, WE ARE NOT RESPONSIBLE IF THERE IS ANY OTHER PROPERTY EXISTING IN THIS AREA, IF THEY DO NOT SUBMIT ANY OTHER INFORMATION TO CONFIRM OUR DATA.

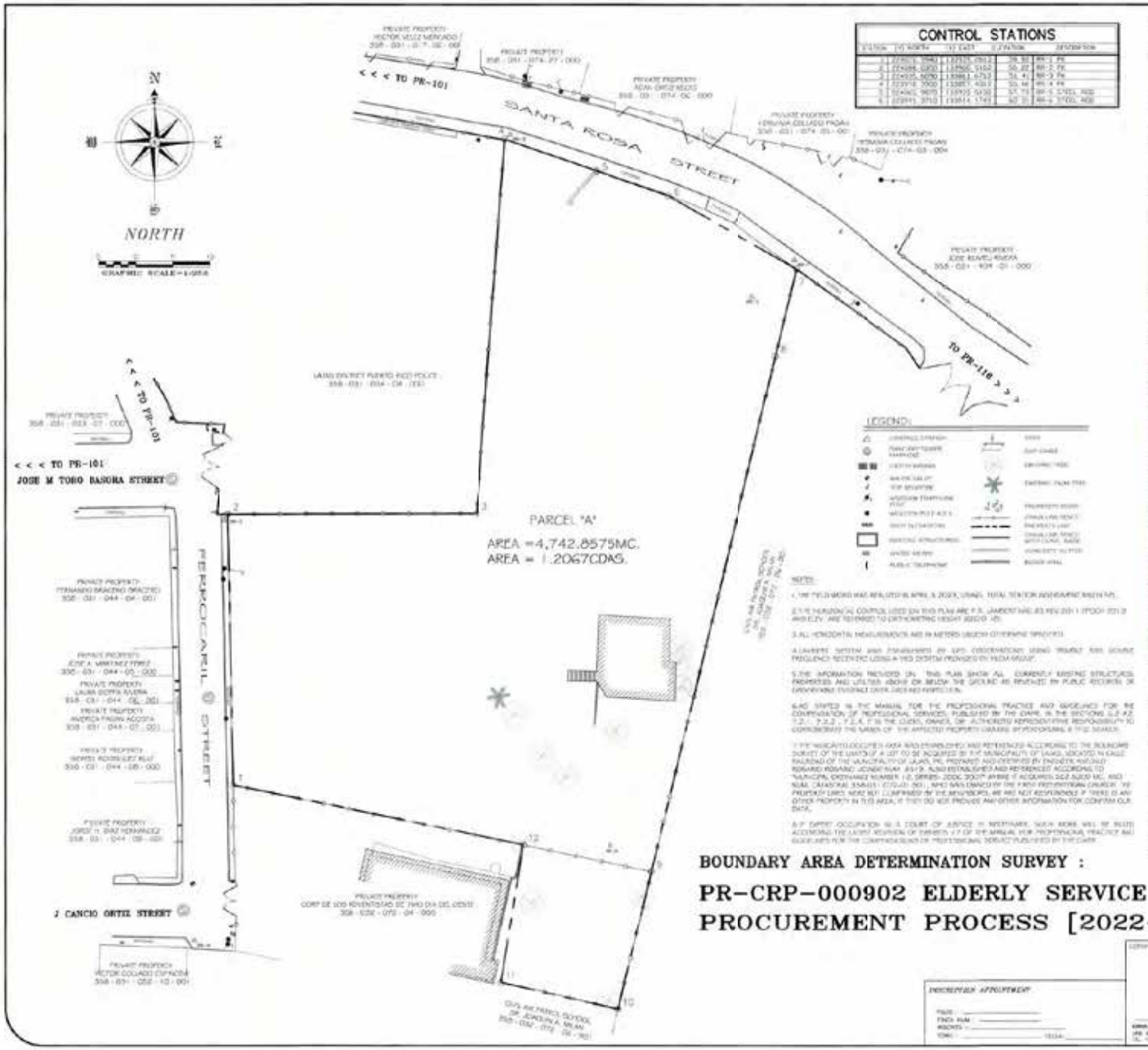
8. IF EXPERT OCCUPATION IN A COURT OF JUSTICE IS NECESSARY, SUCH WORK WILL BE BILLED ACCORDING THE LATEST REVISION OF EXHIBITS 17 OF THE MANUAL FOR PROFESSIONAL PRACTICE AND GUIDELINES FOR THE COMPENSATION OF PROFESSIONAL SERVICE PUBLISHED BY THE CIAPR.

CATASTRO NUMBER 358 - 032 - 072 - 01 - 000

PLAN OF AS-BUILT AND TOPOGRAPHY FOR PROJECT :

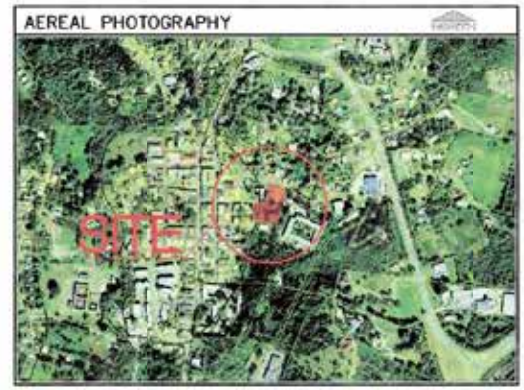
PR-CRP-000902 ELDERLY SERVICE CENTER-LAJAS, PR
PROCUREMENT PROCESS [2022-CRP-LAJ002-01]

LOCATION AND TABLES OF CONTROL STATIONS



CONTROL STATIONS

STATION	(Y) NORTH	(X) EAST	(Z) ELEVATION	DESCRIPTION
1	[illegible]	[illegible]	[illegible]	[illegible]
2	[illegible]	[illegible]	[illegible]	[illegible]
3	[illegible]	[illegible]	[illegible]	[illegible]
4	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]
6	[illegible]	[illegible]	[illegible]	[illegible]



SURVEY DATA

PARCEL "A"

POINT	LINE	(Y) NORTH	(X) EAST	DISTANCE	BEARINGS	DESCRIPTION
1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	TUBE FENCE
2	1-2	[illegible]	[illegible]	[illegible]	[illegible]	TUBE FENCE
3	2-3	[illegible]	[illegible]	[illegible]	[illegible]	TUBE FENCE
4	3-4	[illegible]	[illegible]	[illegible]	[illegible]	TUBE FENCE
5	4-5	[illegible]	[illegible]	[illegible]	[illegible]	TO CETABLISH
6	5-6	[illegible]	[illegible]	[illegible]	[illegible]	TO CETABLISH
7	6-7	[illegible]	[illegible]	[illegible]	[illegible]	TO CETABLISH
8	7-8	[illegible]	[illegible]	[illegible]	[illegible]	TO CETABLISH
9	8-9	[illegible]	[illegible]	[illegible]	[illegible]	TUBE FENCE
10	9-10	[illegible]	[illegible]	[illegible]	[illegible]	TUBE 1 1/2" FENCE
11	10-11	[illegible]	[illegible]	[illegible]	[illegible]	TO CETABLISH
12	11-12	[illegible]	[illegible]	[illegible]	[illegible]	TUBE 2" FENCE
13	12-1	[illegible]	[illegible]	[illegible]	[illegible]	TUBE FENCE

AREA = 4,742.8575 sq mt. =0= 1.2067 cdas.

CATASTRO NUMBER: 358 - 032 - 072 - 01 - 000

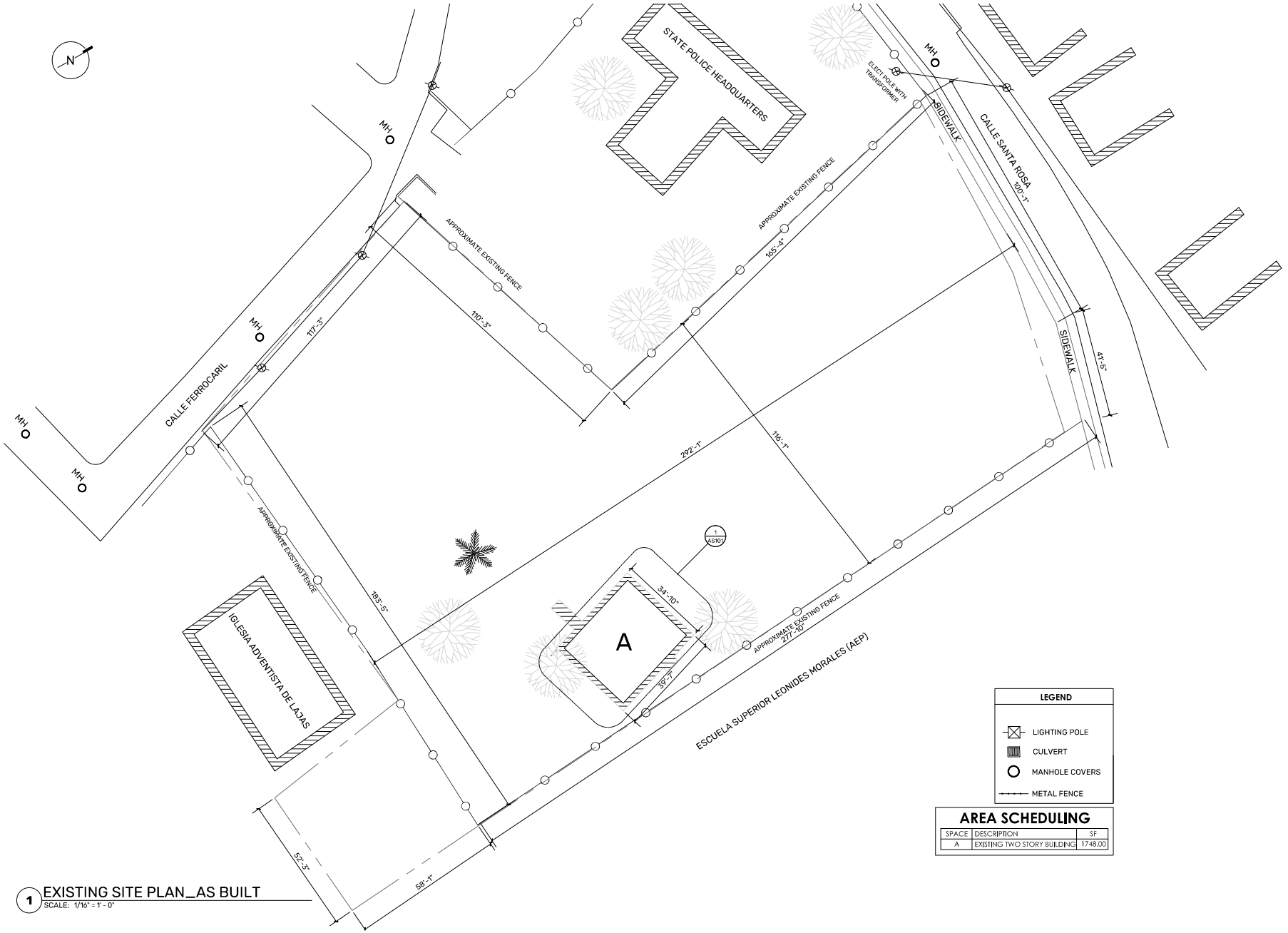
BOUNDARY AREA DETERMINATION SURVEY :

PR-CRP-000902 ELDERLY SERVICE CENTER-LAJAS, PR
PROCUREMENT PROCESS [2022-CRP-LAJ002-01]

INSCRIPTION APPOINTMENT

FILE: _____
FINCH PLAN: _____
WEEKS: _____
TOWN: _____ 19[illegible]

LOCATION, SURVEY DATA AND CONTROL STATIONS



AREA SCHEDULING

SPACE	DESCRIPTION	SF
A	EXISTING TWO STORY BUILDING	1748.00

1 EXISTING SITE PLAN_AS BUILT
SCALE: 1/16" = 1' - 0"

PROJECT ADDRESS
ELDERLY SERVICE CENTER
CALLE FERROCARRIL #11 BO. PUEBLO,
LAJAS, P.R. 00667

GPS LATITUDE/LONGITUDE:
18.04941608, -67.05761236

OWNER
LAJAS MUNICIPALITY

REGISTER No.
358-032-072-01

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
--	--	--	--	--

IMPORTANT NOTES TO THE CONTRACTOR:
CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE PROCEEDING WITH WORK. IF ANY DISCREPANCIES, ERRORS OR OMISSIONS SHOULD BE ENCOUNTERED ON PLANS, CONTRACTOR SHALL NOTIFY THE ENGINEER BEFORE ANY PART OF THE WORK IS STARTED SO THAT PROPER CORRECTIONS ARE MADE. IF ENGINEER IS NOT NOTIFIED PRIOR TO COMMENCING OF THE WORK, ALL DESIGNS AND DRAWINGS HEREIN AND PRINTS ISSUED BY THE ENGINEER ARE THE PROPERTY OF THE ENGINEER AND SHALL NOT BE REUSED ON ANY OTHER LOCATION EXCEPT THE ONE FOR WHICH THEY EXPRESSLY DESIGNED. IF THESE DRAWINGS OR ANY PART THEREOF IS REPRODUCED WITHOUT THE CONSENT OF THE ENGINEER, THE PERSON WHO IS DOING WILL BE INDEBTED TO THE ENGINEER FOR HIS FULL COMMISSION. CONTRACTOR SHALL NOT USE FOR CONSTRUCTION PURPOSES ANY DRAWINGS THAT WERE ADVANCE TO HIM PRIOR TO THE BEGINNING OF CONSTRUCTION. ALL PLANS BEING USED BY CONTRACTOR SHOULD HAVE A LABEL SAYING "FOR CONSTRUCTION ONLY" SIGNED AND SEALED BY THE ENGINEER.

CERTIFICATION
I, WILLIAM MELENDEZ RIVAS, LIC. 16,888, CERTIFY THAT I AM THE PROFESSIONAL WHO (MADE, DESIGNED OR PREPARED) THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 14-2004, AS AMENDED KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY" AND WITH THE (LAW NO. 319 OF MAY 15, 1938, AS AMENDED; ACT NO. 96 OF JULY 6, 1978, AS AMENDED; AS APPLICABLE). I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY IGNORANCE OR NEGLIGENCE EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE OGPE.

INGENIUM PROFESSIONAL GROUP
654 Ave. Muñoz Rivera - Suite 1608
654 Plaza, San Juan, PR 00918
Tel. (787) 918-5995 / 5991
Email: info@ingenium.group

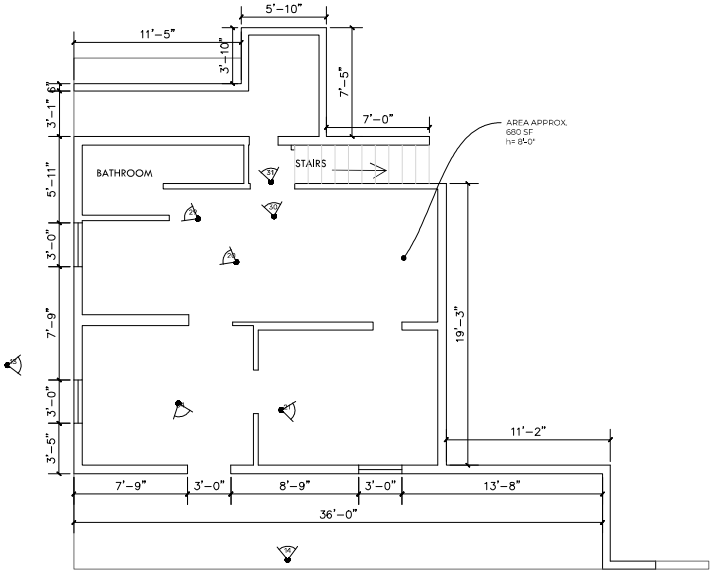
SIGNATURE
William Meléndez Rivas
Ingeniero Licenciado
Lic. 16,888
Puerto Rico

FILE
Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

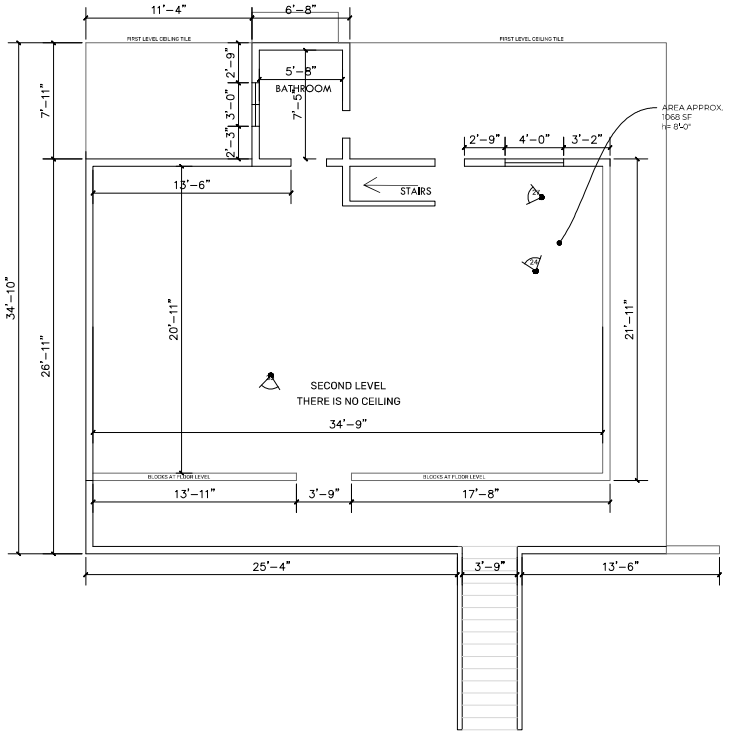
TITLE
EXISTING SITE PLAN_AS BUILT

DRAWING No.
AS100

E X I S T I N G G R O U N D F L O O R P L A N _ A S B U I L T



EXISTING GROUND FLOOR PLAN_BLDG "A"
SCALE: 1/4" = 1' - 0"



EXISTING FIRST FLOOR PLAN_BLDG "A"
SCALE: 1/4" = 1' - 0"

PROJECT ADDRESS
ELDERLY SERVICE CENTER
CALLE FERROCARRIL #11 BO. PUEBLO,
LAJAS, P.R. 00667

GPS LATITUDE/LONGITUDE:
18.04941608, -67.05761236

OWNER
LAJAS MUNICIPALITY

REGISTER No.
3 5 8 - 0 3 2 - 0 7 2 - 0 1

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
--	--	--	--	--

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CERTIFICATION
I, WILLIAM MELENDEZ RIVAS, LIC. 16883, CERTIFY THAT I AM THE PROFESSIONAL WHO MADE, DESIGNED OR PREPARED THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 14-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY" AND WITH THE (LAW NO. 319 OF MAY 15, 1938, AS AMENDED; ACT NO. 96 OF JULY 6, 1978, AS AMENDED) AS APPLICABLE. I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY IGNORANCE OR NEGLIGENCE EITHER BY ME, MY AGENTS OR EMPLOYEES OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE OGPE.

INGENIUM PROFESSIONAL GROUP
664 Ave. Muñoz Rivera - Suite 1838
659 Plaza, San Juan, PR 00733
Tel. (787) 764-5810 / 5811
Email: info@ingenium.pr.group

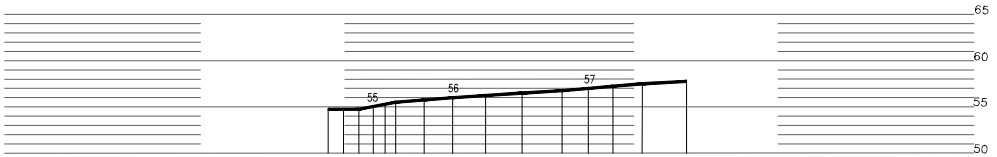
SIGNATURE
William Meléndez Rivas
Puerto Rico

FILE
Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
EXISTING GROUND FLOOR PLAN_AS BUILT

DRAWING No.
AS101

E X I S T I N G S I T E P R O F I L E S



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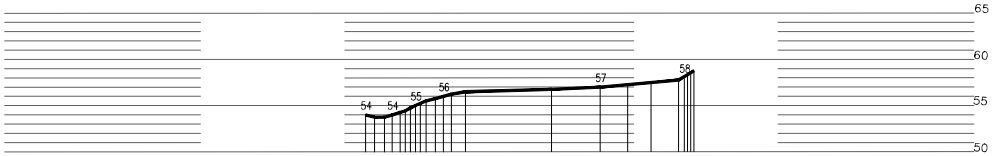
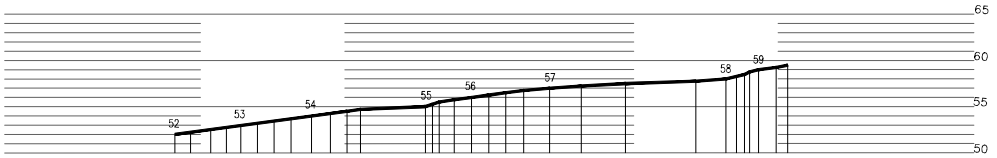
SCALE: 1:250

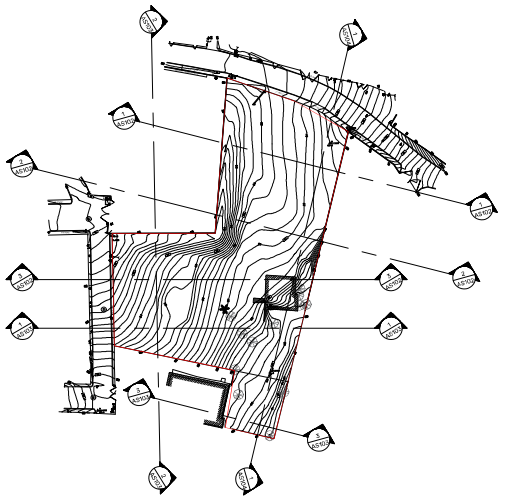


2 EXISTING PROFILE
SCALE: 1:250



3 EXISTING PROFILE
SCALE: 1:250

EXISTING SITE PROFILES
SCALE: 1:250



PROJECT ADDRESS
PR-CRP-001058
NUEVO CENTRO RECREATIVO MULTIFUNCIONAL.
PR-8860, ST. JUST, TRUJILLO ALTO, PUERTO RICO.

GPS LATITUDE/LONGITUDE:
18.358823, -66.001789

OWNER
TRUJILLO ALTO MUNICIPALITY

REGISTER No.
1 1 5 - 0 5 0 - 7 4 9 - 0 2

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
--	--	--	--	--

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CERTIFICATION

I, WILLIAM MELENDEZ RIVAS, LIC. 16383, CERTIFY THAT I AM THE PROFESSIONAL WHO [MADE, DESIGNED OR PREPARED] THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 14-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY" AND WITH THE [LAW NO. 319 OF MAY 15, 1938, AS AMENDED, ACT NO. 96 OF JULY 6, 1978, AS AMENDED, AS APPLICABLE]. I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY IGNORANCE OR NEGLIGENCE, EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE COPE.

INGENIUM PROFESSIONAL GROUP
654 Ave. Munoz Rivera - Suite 1838
604 Plaza San Juan, PR 00738
Tel (787) 918-5892 / 5891
Email info@ingenium.group

SIGNATURE

FILE

Dwg Name: INGENIUM GROUP

Drawn by: INGENIUM GROUP

Revised by: ING. WILLIAM MELENDEZ

Plot Scale: AS SHOWN

Progress Print:

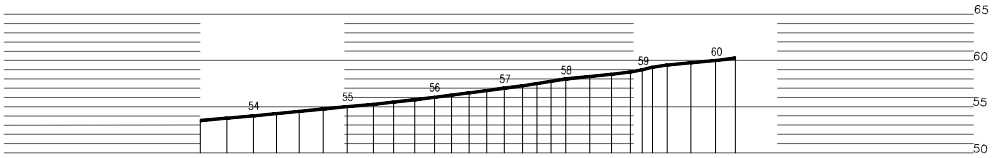
TITLE

EXISTING SITE PROFILES

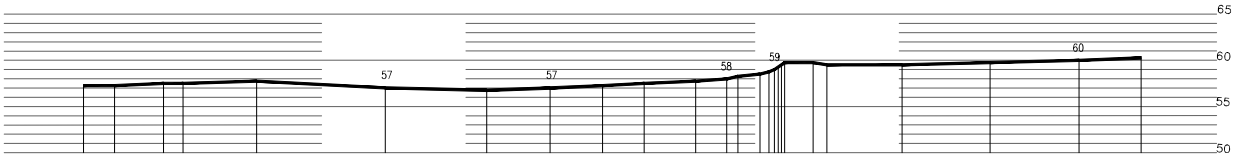
DRAWING No.

AS102

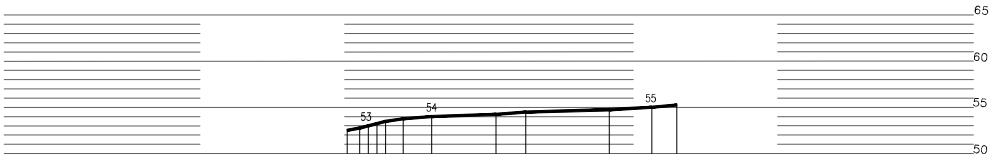
E X I S T I N G S I T E P R O F I L E S



1 EXISTING PROFILE
SCALE: 1:250

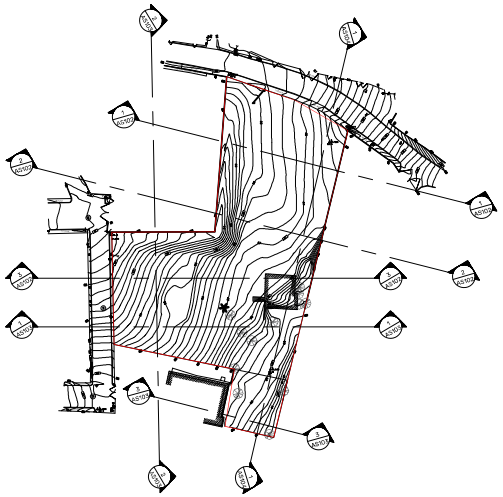


2 EXISTING PROFILE
SCALE: 1:250



3 EXISTING PROFILE
SCALE: 1:250

EXISTING SITE PROFILES
SCALE: 1:250



PROJECT ADDRESS:
PR-GRP-001056
NUEVO CENTRO RECREATIVO MULTIFUNCIONAL,
PR-8860, ST. JUST, TRUJILLO ALTO, PUERTO RICO.

GPS LATITUDE/LONGITUDE:
18.358823, -66.001789

OWNER
TRUJILLO ALTO MUNICIPALITY

REGISTER No.
115-050-749-02

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
--	--	--	--	--

IMPORTANT NOTES TO THE CONTRACTOR:
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CERTIFICATION
I, WILLIAM MELENDEZ RIVAS, LIC. 16383, CERTIFY THAT I AM THE PROFESSIONAL WHO MADE, DESIGNED OR PREPARED THESE PLANS AND THE CORRESPONDENTS SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 14-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY" AND WITH THE [LAW NO. 319 OF MAY 15, 1938, AS AMENDED, ACT NO. 96 OF JULY 6, 1976, AS AMENDED, AS APPLICABLE]. I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY IGNORANCE OR NEGLIGENCE EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE CODE.

INGENIUM PROFESSIONAL GROUP
654 Ave. Munoz Rivera - Suite 1838
654 Plaza, San Juan, PR 00738
Tel. (787) 918-5890 / 5891
Email: info@ingenium.group

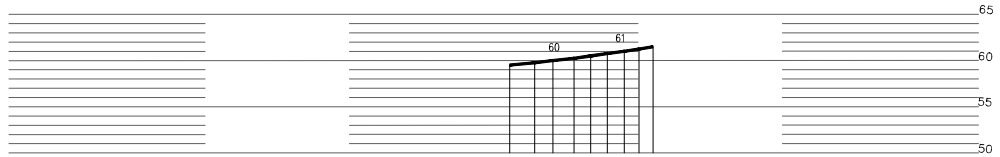
SIGNATURE

FILE
Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

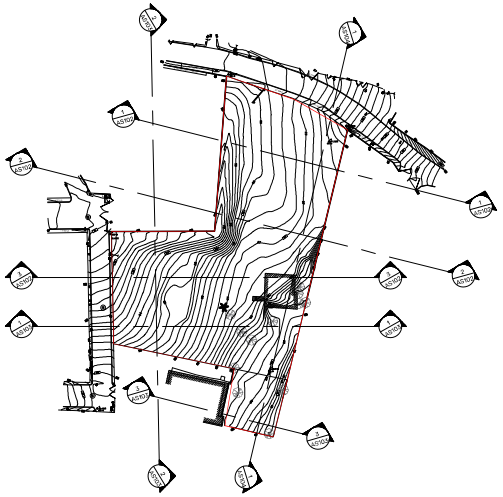
TITLE
EXISTING SITE PROFILES

DRAWING No.
AS103

E X I S T I N G S I T E P R O F I L E S



1 EXISTING PROFILE
SCALE: 1:250



EXISTING SITE PROFILES
SCALE: 1:250

PROJECT ADDRESS
PR-CRP-001058
NUEVO CENTRO RECREATIVO MULTIFUNCIONAL.
PR-8860, ST. JUST, TRUJILLO ALTO, PUERTO RICO.

GPS LATITUDE/LONGITUDE:
18.358823, -66.001789

OWNER
TRUJILLO ALTO MUNICIPALITY

REGISTER No.
1 1 5 - 0 5 0 - 7 4 9 - 0 2

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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IMPORTANT NOTES TO THE CONTRACTOR:

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE PROCEEDING WITH WORK. IF ANY DISCREPANCIES, ERRORS OR OMISSIONS SHOULD BE ENCOUNTERED ON PLANS, CONTRACTOR SHALL NOTIFY THE ENGINEER BEFORE ANY PART OF THE WORK IS STARTED SO THAT PROPER CORRECTIONS ARE MADE. IF ENGINEER IS NOT NOTIFIED PRIOR TO COMMENCING OF THE WORK, ALL DESIGNS AND DRAWINGS HEREIN AND PRINTS ISSUED BY THE ENGINEER ARE THE PROPERTY OF THE ENGINEER AND SHALL NOT BE REUSED ON ANY OTHER LOCATION EXCEPT THE ONE FOR WHICH THEY EXPRESSLY DESIGNED. IF THESE DRAWINGS OR ANY PART THEREOF IS REPRODUCED WITHOUT THE CONSENT OF THE ENGINEER, THE PERSON WHO IS DOING WILL BE INCERTED TO THE ENGINEER FOR HIS FULL COMMISSION. CONTRACTOR SHALL NOT USE FOR CONSTRUCTION PURPOSES ANY DRAWINGS THAT WERE ADVANCE TO HIM PRIOR TO THE BEGINNING OF CONSTRUCTION. ALL PLANS BEING USED BY CONTRACTOR SHOULD HAVE A LABEL SAYING "FOR CONSTRUCTION ONLY" SIGNED AND SEALED BY THE ENGINEER.

CERTIFICATION

I, WILLIAM MELENDEZ RIVAS, LIC. 16383, CERTIFY THAT I AM THE PROFESSIONAL WHO [MADE, DESIGNED OR PREPARED] THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 14-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY" AND WITH THE LAW NO. 319 OF MAY 15, 1938, AS AMENDED, ACT NO. 96 OF JULY 6, 1978, AS AMENDED, AS APPLICABLE. I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY IGNORANCE OR NEGLIGENCE, EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE COPE.

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SIGNATURE

FILE

Dwg Name: INGENIUM GROUP

Drawn by: INGENIUM GROUP

Revised by: ING. WILLIAM MELENDEZ

Plot Scale: AS SHOWN

Progress Print:

TITLE

EXISTING SITE PROFILES

DRAWING No.

AS104

PAGE: 9 / 39

P H O T O D O C U M E N T A T I O N

| FOR MORE LOCATION DETAIL SEE AS2.1

| FOR MORE LOCATION DETAIL SEE AS2.1

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| FOR MORE LOCATION DETAIL SEE AS2.1

PROJECT ADDRESS
ELDERLY SERVICE CENTER
CALLE FERROCARRIL #11 BO. PUEBLO,
LAJAS, P.R. 00667

GPS LATITUDE/LONGITUDE:
18.04941608, -67.05761236

OWNER
LAJAS MUNICIPALITY

REGISTER No.
3 5 8 - 0 3 2 - 0 7 2 - 0 1

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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CERTIFICATION

I, WILLIAM MELENDEZ RIVAS, LIC. 16883, CERTIFY THAT I AM THE PROFESSIONAL WHO MADE, DESIGNED OR PREPARED THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 14-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY" AND WITH THE (LAW NO. 319 OF MAY 15, 1938, AS AMENDED; ACT NO. 96 OF JULY 6, 1978, AS AMENDED; AS APPLICABLE). I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY IGNORANCE OR NEGLIGENCE EITHER BY ME, MY AGENTS OR EMPLOYEES OR BY OTHERS WITH MY KNOWLEDGE MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE OOPE.

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SIGNATURE

William Meléndez Rivas
Ingeniero
Lic. 16883 P.R.
Puerto Rico

FILE

Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
PHOTO DOCUMENTATION

DRAWING No.
GR100

P R O P O S E D D E M O L I T I O N S I T E P L A N

DEMOLITIONS NOTES:

THE INFORMATION CONTAINED WITHIN THE DRAWINGS OF EXISTING CONDITIONS AND DEMOLITION REQUIRED ARE INCLUDED AS A GENERAL GUIDE TO THE SCOPE OF WORK. THIS INFORMATION IS NOT A DETAILED STUDY OF EXISTING CONDITIONS OR THE DEMOLITION. THE GENERAL CONTRACTOR SHALL MAKE USE OF THESE DRAWING AND INFORMATION AS A TOOL FOR WORKING TO ESTABLISH A WORK PLAN.

1. CONTRACTOR SHOULD MAKE A SELECTIVE DEMOLITION WORK AND FOLLOW ALL SUGGESTIONS AND STANDARDS OF THE GOVERNMENT REGULATIONS. CONTRACTOR SHOULD COORDINATE AND BE UP TO DATE WITH ALL COMPLIANCE MENTIONED.
2. PROPOSED EROSION AND SEDIMENTATION CONTROL PLAN SHALL BE IMPLEMENTED BY THE CONTRACTOR PRIOR TO DEMOLITION ACTIVITIES.
3. CONTRACTOR SHALL IMPLEMENT SAFETY MEASURES DURING DEMOLITION ACTIVITIES TO AVOID ANY TYPE OF ACCIDENT AND DAMAGES TO NEARBY PROPERTIES AROUND THE PROJECT SITE AND THE EXISTING UNDERGROUND UTILITIES TO REMAIN.
4. AREAS SHOWN ON PLAN TO BE DEMOLISHED SHALL BE PROMPTLY REMOVED BUT COORDINATION WITH THE ENGINEERS SHOULD BE MADE PRIOR TO DEMOLITION NOT WITH STANDING, AFFECTED OR DAMAGED ASPHALT, CONCRETE, CURB & GUTTERS, PIPES AND OTHERS BY THE CONTRACTOR, WHICH ARE LOCATED OUTSIDE OF PROJECT LIMIT SHALL BE RECONSTRUCTED IMMEDIATELY.
5. SOME OF THE EXISTING UTILITIES WITHIN PROJECT LIMITS, EXCEPT THOSE INDICATED TO REMAIN, SHALL BE DEMOLISHED AND DISPOSED IN COORDINATION WITH THE ENGINEERS TAKING IN CONSIDERATION THE NEEDS DURING THE DIFFERENT STAGES OF THE DEMOLITION AND THE CONSTRUCTION PHASES.
6. INFORMATION AND NOTES SHOWN ON THE DRAWINGS OR OTHER INFORMATION INADVERTENT OMISSION DOES NOT RELIEVE THE CONTRACTOR GENERAL LIABILITY TO VISIT AND INSPECT THE SITE AND REPORTS OF ALL EXISTING SITE CONDITIONS TO INCLUDE ALL COSTS REQUIRED IN THE PROPOSAL TO COVER ALL DEMOLITION TO COMPLETE THE CONSTRUCTION WORK, AS SHOWN ON THE CONSTRUCTION DOCUMENTS.
7. THE CONTRACTOR SHOULD CHECK WITH THE OWNER PRIOR TO ANY DEMOLITION, ANY AREA OUTSIDE THE LIMITS OF AGREEMENT REQUIRING WORK.
8. THE CONTRACTOR SHALL VISIT AND INSPECT THE ENTIRE AREA OF WORK AND FAMILIARIZE WITH THE EXISTING CONDITIONS.
9. ANY MISCELLANEOUS ELEMENT IN THE DEFINED WORK AREA WHICH HAS NOT BEEN DIRECTLY COVERED BY THE DRAWINGS, WILL BE REMOVED TO PROVIDE A CLEAN SURFACE LEVEL.
10. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE REMOVAL AND LEGAL DISPOSITION (REGULATION) OF DEBRIS OF THE PROJECT. THE GARBAGE CONTAINERS AND RAIN WATERS SYSTEM OF THE OWNER WILL NOT BE USED, THE CONTRACTOR IS RESPONSIBLE OF PROVIDING HIS OWN GARBAGE AND COMPLY WITH THE GENERAL CONDITIONS OF CONTRACTING.
11. THE DEMOLITIONS AN REMOVAL SHOULD BE MADE SAFE, NEAT, CLEAN. THE AREAS MUST BE CLEAN.
12. THE DEMOLITION AND REMOVAL MUST FOLLOW ALL APPLICABLE LAWS AND CODES IN ORDER TO AVOID INJURY TO PERSONS AND/OR ANY PROPERTY DAMAGE.
13. ONCE COMPLETED THE DEMOLITION , THE AREA SHOULD BE CLEAN OF DEBRIS BEFORE THE NEW CONSTRUCTION BEGINS.
14. ANY OBJECT THAT CAN BE REUSED AND DETERMINED BY THE OWNER SHOULD BE CAREFULLY REMOVED, CLEANED AND STORED IN AN AREA DESIGNATED BY THE OWNER.

GENERAL DEMOLITIONS NOTES:

A. THE STRUCTURES TO BE DEMOLISHED CAN BE MODIFIED BY THE DESIGNER.

B. PROTECTION: PROVIDE HALLWAY IF NECESSARY TO ENSURE THE SAFE PASSAGE OF PERSONS AROUND THE AREA OF DEMOLITION. CONDUCT OPERATIONS TO PREVENT DAMAGE BY FALLING DEBRIS OR OTHER TO ADJACENT BUILDINGS STRUCTURES AND OTHER FACILITIES AS WELL AS PERSONS.

C. DAMAGES: PROMPTLY REPAIR DAMAGES CAUSED TO ADJACENT FACILITIES BY DEMOLITIONS OPERATIONS, AS DIRECTED BY THE ARCHITECT AND AT NO COST TO THE OWNER.

D. PARTIAL STRUCTURES DEMOLITION: DEMOLISH PARTS AS INDICATED AND REMOVE FROM THE SITE AS REQUIRED TO COMPLETE THE WORK.

E. REMOVE FROM SITE ALL DEBRIS, RUBBLE AND OTHER MATERIAL RESULTING FROM DEMOLITION. STORAGE OR SALE OF REMOVED MATERIALS WILL NOT BE ALLOWED ON SITE.

NOTES TO THE CONTRACTOR:

I-THE CONTRACTOR WILL BE RESPONSIBLE FOR THE PRESENT AND FUTURE DAMAGES CAUSED TO THE PUBLIC AND PRIVATE PROPERTY BY THE CONSTRUCTION OF THIS PROJECT.

II-THE CONTRACTOR MUST VERIFY THE MEASURES BEFORE STARTING THE WORKS AND NOTIFY THE SUPERVISORY ENGINEER ANY DIFFERENCE IN THE SAME WITH RELATION TO THOSE INDICATED IN THE DRAWINGS.

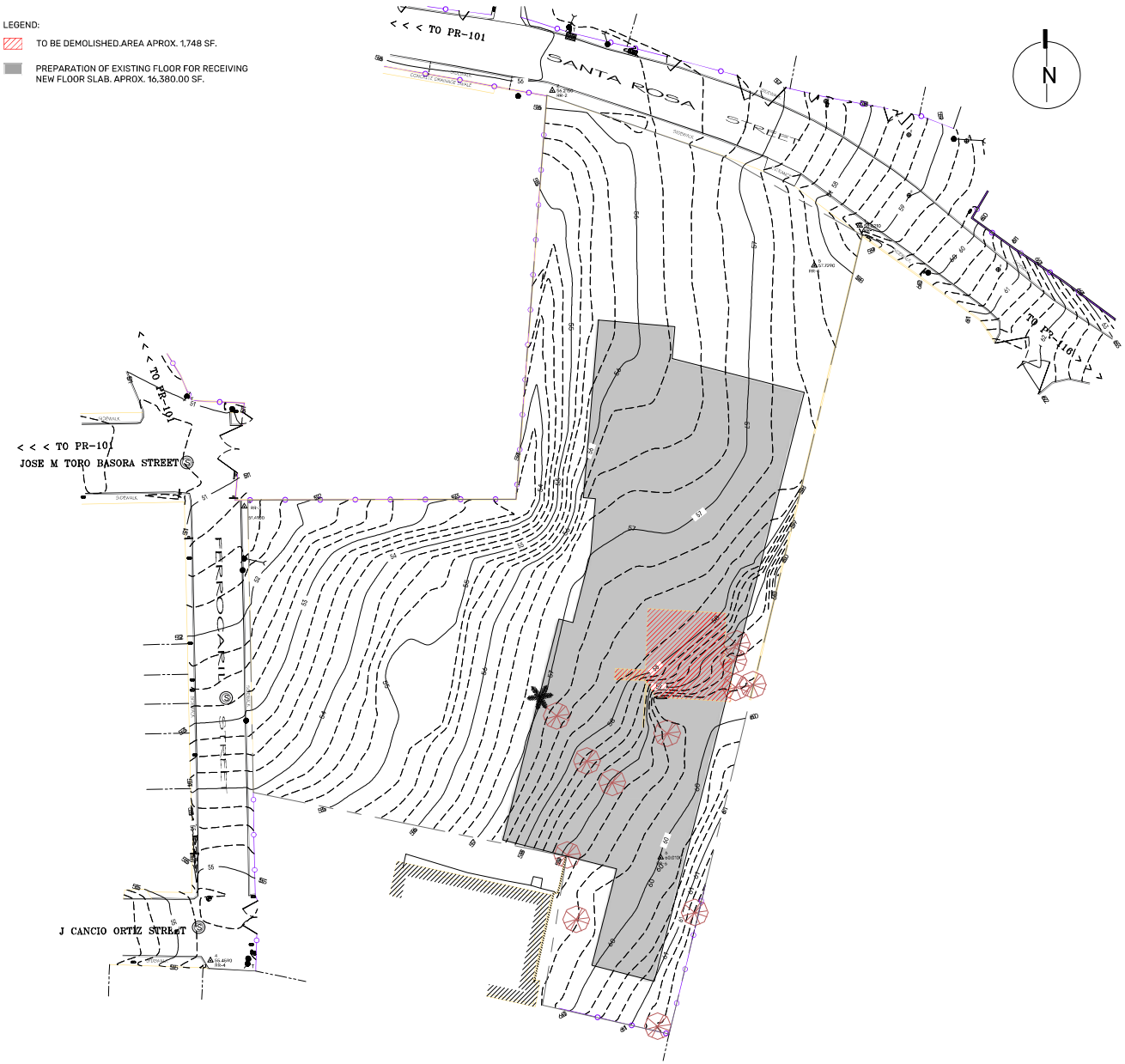
III-THE CONTRACTOR WILL AT ALL TIMES TAKE ALL NECESSARY AND REASONABLE PRECAUTIONS FOR THE SAFETY OF ITS EMPLOYEES AND GENERAL PUBLIC AND COMPLY WITH ALL APPLICABLE LAWS AND REQUIREMENTS FOR THE OCCUPATIONAL SAFETY OF PUERTO RICO ACCORDING TO O.S.H.A. AND THEIR REQUIREMENTS FOR CONSTRUCTION WORKERS

IV-CAUTION SHALL BE TAKEN AS A USE OF FENCE, WOODEN BOARDS AND/OR OTHER MEANS FOR THE SAFETY OF ADJACENT PERSONS AND/OR PROPERTIES.

LEGEND:

TO BE DEMOLISHED.AREA APROX. 1,748 SF.

PREPARATION OF EXISTING FLOOR FOR RECEIVING NEW FLOOR SLAB. APROX. 16,380.00 SF.



1 PROPOSED DEMOLITION PLAN
SCALE: 1:300

PROJECT ADDRESS
ELDERLY SERVICE CENTER
CALLE FERROCARRIL #11 BO. PUEBLO,
LAJAS, P.R. 00667

GPS LATITUDE/LONGITUDE:
18.04941608, -67.05761236

OWNER
LAJAS MUNICIPALITY

REGISTER No.
3 5 8 - 0 3 2 - 0 7 2 - 0 1

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
--	--	--	--	--

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William Melendez Rivas
Lic. 16383
Puerto Rico

FILE

Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE

PROPOSED DEMOLITION SITE PLAN

DRAWING No.

C100

D E M O L I T I O N T Y P I C A L D E T A I L S

GENERAL EROSION & SEDIMENTS CONTROL NOTES

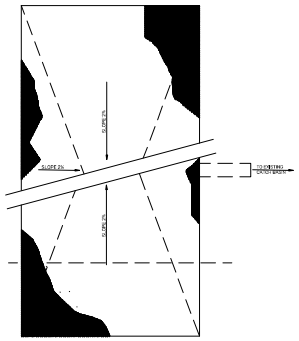
1 ALL CONSTRUCTION OF EROSION AND SEDIMENT CONTROL SHALL COMFORM TO EQB (JCA - JUNTA DE CALIDAD AMBIENTAL) STANDARDS AND AS DESCRIBED HEREIN.
2 AREAS TO BE GRADED SHALL BE CLEARED AND GRUBBED IN ACCORDANCE WITH SPECIFICATIONS. PRESERVE AND PROTECT ALL EXISTING GROUND VEGETATION AND TREES OUTSIDE OF THE CONSTRUCTION LIMITS OR SPECIFICALLY DESIGNATED TO REMAIN.
3 ALL EROSION CONTROL MEASURES SHALL BE PLACED IMMEDIATELY FOLLOWING SITE CLEARING AND GRUBBING AS SHOWN ON THE DRAWING. NO GRADING SHALL BE DONE UNTIL SILT BARRIER INSTALLATION IS COMPLETED.
4 TOPSOIL SHALL BE REMOVED, STOCKPILED, AND SEEDED IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS.
5 THE CONSTRUCTION AREA SHALL BE ROUGH GRAPPED AS SHOWN ON THE DRAWING.
6 DIVERSION DITCHES, SWALES, AND SLOPES SHALL BE CONSTRUCTED AND GRASSED AS SOON AS POSSIBLE TO MINIMIZE EROSION. RIP RAP SHALL BE PLACED AS SHOWN ON THE PLANS AND AS REQUIRED.

GRAVEL CONSTRUCTION ENTRANCE NOTES

1 **STONE SIZE** - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2 **THICKNESS** - NOT LESS THAN 6".
3 **WIDTH** - 10' MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
4 **SURFACE WATER**- ALL SURFACE WATER FLOWING OF DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL A MOUNTABLE BERM WITH 5:1 SLOPE WILL BE PERMITED.
5 **MAINTENANCE** - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OF FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS -OF- WAY REQUIRED PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEAMOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS -OF- WAY MUST BE REMOVED IMMEDIATELY.
6 **WASHING** - WHEEL SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS -OF- WAY.
7 PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

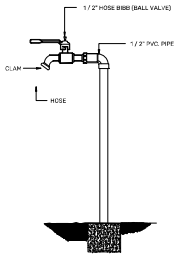
DEMOLITION NOTES

1	**GENERAL**
1.1	CONTRACTOR MUST BE BECOME FAMILIAR WITH THE PROJECT, THE INTENTION OF THE CONSTRUCTION DOCUMENTS AND THE ARCHITECTS DESIGN IN ORDER TO CARRY OUT SELECTIVE DEMOLITION WORK IN A MANNER THAT IS CONDUCTIVE TO PROPER EXECUTION OF THE PROJECT. IT IS RESPONSIBILITY OF THE CONTRACTOR TO VISIT THE PROJECT ARE BEFORE BIDDING, TO BECOME ACQUAINTED WITH THE SCOPE OF DEMOLITION WORK.
1.2	DEMOLITION NOTES AND DRAWINGS ARE A GENERAL GUIDE TO THE PROJECT, THE CONTRACTOR IS RESPONSIBLE FOR THE SATISFACTORY COMPLETION OF THE WORK IN A MANNER THAT INVOLVES NO EXTRA COST TO THE OWNER.
1.3	CONSTRUCTION AREA SHALL BE KEPT CLEAN AND SAFE. DISPOSE OF DEBRIS DAILY AND CLEAN AREAS OF WORK UPON COMPLETION.
1.4	CONTRACTOR SHALL COMPLY WITH ALL ENVIRONMENTAL AND SAFETY REGULATIONS CONCERNING DEMOLITION WORK, INCLUDING O.S.H.A REQUIREMENTS.
1.5	CONTRACTOR SHALL NOTIFY THE ARCHITECT IF ANY EXISTING CONDITIONS DISCOVERED DURING THE DEMOLITION PHASE AFFECTS THE PROPOSED CONSTRUCTION PROJECT.
1.6	THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL OF ALL SALVAGEABLE ITEMS.
1.7	ALL MATERIALS REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE SPECIFICALLY DESIGNATED TO REMAIN THE PROPERTY OF THE OWNER.
2	**SCOPE**
2.1	ALL CONSTRUCTION INDICATED TO BE DEMOLISHED SHALL BE REMOVED IN THEIR ENTIRETY INCLUDING FOUNDATION AND ALL ELECTRICAL AND MECHANICAL FACILITIES.
2.2	REMOVE TREES TO BE ELIMINATED AS INDICATES.
2.3	REMOVE ROOT SYSTEM TO A MINIMUM DEPTH OF 3'-0" FOR TREES 5'-0" OR FARTHER FROM PROJECTED BUILDING OUTLINE. REMOVE ROOT SYSTEM TO A MINIMUM DEPTH OF 5'-0" FOR TREES WITHIN 5'0" OF PROJECTED BUILDING OUTLINE.
2.4	ALL SANITARY PIPING CONNECTING THE EXISTING CONSTRUCTION TO AAA FACILITIES SHALL BE REMOVED WITHIN THE PROPERTY AND CONNECTION TO THE AAA PIPE SHALL BE PROPERLY ELIMINATED IN A MANNER CONDUCIVE TO APPROVAL BY AAA PERSONNEL.
2.5	ALL ELECTRICAL EQUIPMENT AND CONNECTIONS SHALL BE PROPERLY ELIMINATED IN A MANNER THAT IS CONDUCTIVE TO APPROVAL BY AEE PERSONNEL. ALL ELECTRICAL DEMOLITION SHALL BE PERFORMED BY OR UNDER THE SUPERVISION OF A LICENSED ELECTRICIAN. ALL ELECTRICAL WORK SHALL CONFORM TO ALL APPLICABLE REGULATION.
2. 6	CONTRACTOR SHALL PROVIDE BACKFILL TO ALL EXCAVATIONS LEFT AFTER DEMOLITION IN AREAS NEAR STREET AND ADJOINING PROPERTIES IN ORDER TO GUARANTEE THE STRUCTURAL INTEGRITY OF EXISTING CONSTRUCTION. BACKFILL SHALL BE SIMILAR IN TYPE AND DENSITY TO EXISTING SOIL AND DEPOSITED ACCORDING TO ACCEPTABLE ENGINEERING STANDARDS, UNDER THE SUPERVISION OF A LICENSED ENGINEER. THE CONTRACTOR SHALL NOTIFY THE DESIGNER IF ANY PRECAUTIONS OR ADDITIONAL WORK NEEDS TO BE PERFORMED IN ORDER TO COMPLY WITH THIS REQUIREMENT.
3	**PROTECTION AND DAMAGE**
3.1	PROTECT ITEMS NOT BEING REMOVED FROM DAMAGE DURING DEMOLITION.
3. 2	PROTECT ALL ADJACENT PROPERTY FROM DAMAGE DURING DEMOLITION.
3. 3	CONTRACTOR SHALL NOTIFY THE ARCHITECT IF DEMOLITION WORK APPEARS TO AFFECT THE STRUCTURAL INTEGRITY OF ANY EXISTING BUILDING BEFORE PROCEEDING.
3. 4	THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO EXISTING FACILITIES TO REMAIN RESULTING FROM WORK UNDER THIS CONTRACT, AND SHALL RESTORE SUCH DAMAGE TO IT'S ORIGINAL CONDITION.
3. 5	COORDINATE WITH NEIGHBORS IF ANY LABOR REQUIRES DISTURBANCE OF ADJACENT PROPERTY.
4	**DISPOSAL AND DOCUMENTATION**
4.1	DISPOSE OF ALL REFUSE AND CONSTRUCTION DEBRIS IN LEGAL DUMP SITES AND PROVIDE ARCHITECT WITH DOCUMENTATION REGARDING PLACE OF DISPOSAL, MATERIALS DISPOSED, QUANTITY AND DATE. PAYMENT OF ALL DISPOSAL FEES IS THE RESPONSIBILITY OF THE CONTRACTOR AND ALL QUANTITIES ARE PART OF THE CONTRACT.
4. 2	DISPOSAL OF REFUSE AND CONSTRUCTION DEBRIS IN ILLEGAL LOCATIONS WILL BE CONSIDERED A GRAVE OFFENSE AND REASON FOR IMMEDIATE TERMINATION OF CONSTRUCTION CONTRACT.



PLAN

SECTION A

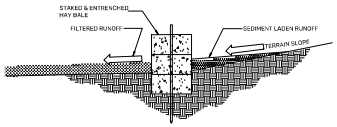


1 VEHICLE TIRE WASHING PAD

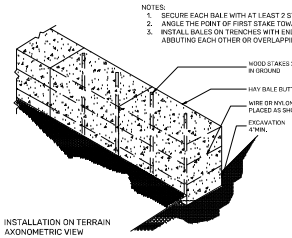
SCALE: NOT TO SCALE

2 TEMPORARY HOSE BIBB INSTALLATION DETAIL

SCALE: NOT TO SCALE



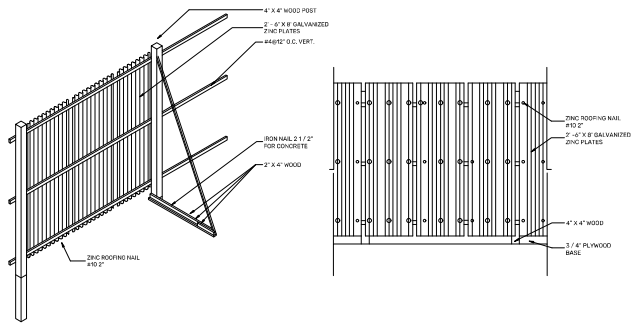
SECTION VIEW



INSTALLATION ON TERRAIN
AXONOMETRIC VIEW

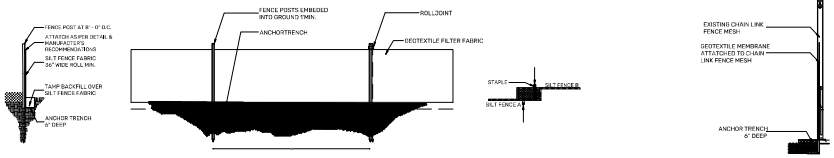
3 HAY BALE ANCHORING DETAILS

SCALE: NOT TO SCALE



AXONOMETRIC VIEW

ELEVATION VIEW



SECTION ELEVATION WOOD POST TOP VIEW

4 SILT FENCE DETAILS

SCALE: NOT TO SCALE

5 ALTERNATIVE SILT FENCE INSTALLATION DETAIL

SCALE: NOT TO SCALE

6 TEMPORARY FENCE DETAILS

SCALE: NOT TO SCALE

PROJECT ADDRESS
ELDERLY SERVICE CENTER
CALLE PERROCARRIL #11 BO. PUEBLO, LAJAS, P.R. 00667

GPS LATITUDE/LONGITUDE:
18.049416.08, -67.05761236

OWNER
LAJAS MUNICIPALITY

REGISTER No.
3 5 8 - 0 3 2 - 0 7 2 - 0 1

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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IMPORTANT NOTES TO THE CONTRACTOR:
CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE PROCEEDING WITH WORK. IF ANY DISCREPANCIES, ERRORS OR OMISSIONS SHOULD BE ENCOUNTERED ON PLANS, CONTRACTOR SHALL NOTIFY THE ENGINEER BEFORE ANY PART OF THE WORK IS STARTED SO THAT PROPER CORRECTIONS ARE MADE. IF ENGINEER IS NOT NOTIFIED PRIOR TO COMMENCING OF THE WORK, ALL DASIGNS AND DRAWINGS HEREIN AND PRINTS ISSUED BY THE ENGINEER ARE THE PROPERTY OF THE ENGINEER AND SHALL NOT BE REUSED ON ANY OTHER LOCATION EXCEPT THE ONT FOR WHICH THEY EXPRESS,Y DESIGNED. IF THESE DRAWINGS OR ANY PART THEREOF IS REPRODUCED WITHOUT THE CONSENT OF THE ENGINEER, THE PERSON WHO IS DOING WILL BE INDEBTED TO THE ENGINEER FOR HIS FULL COMMISSION, CONTRACTOR SHALL NOT USE FOR CONSTRUCTION PURPOSES ANY DRAWINGS THAT WERE NOT ISSUED TO HIM PRIOR TO THE BEGINNING OF CONSTRUCTION. ALL PLANS BEING USED BY CONTRACTOR SHOULD HAVE A LABEL SAYING "FOR CONSTRUCTION ONLY" SIGNED AND SEALED BY THE ENGINEER.

CERTIFICATION
I, WILLIAM MELENDEZ RIVAS, LIC. 16353, CERTIFY THAT I AM THE PROFESSIONAL WHO [MADE, DESIGNED OR PREPARED] THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS WAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 14-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT IN THE PUERTO RICAN INDUSTRY" AND WITH THE [LAW NO. 319 OF MAY 15, 1938, AS AMENDED; ACT NO. 96 OF JULY 6, 1978, AS AMENDED, AS APPLICABLE] I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY IGNORANCE OR NEGLIGENCE EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE COPE.

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FILE
Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
DEMOLITION TYPICAL DETAILS

DRAWING No.
C101

ARCHITECTURAL NOTES

GENERAL NOTES:

1. THESE GENERAL NOTES ARE NOT INTENDED TO REPLACE SPECIFICATIONS. SEE SPECIFICATIONS FOR REQUIREMENTS IN ADDITION TO GENERAL NOTES.

2. REFER TO THE GENERAL CONDITIONS AND DIVISION 1 "GENERAL REQUIREMENTS IN THE SPECIFICATIONS.

3. CONTRACTOR AND ALL TRADES SHALL NOTE REQUIREMENTS OF "GENERAL NOTES" ON ALL SHEETS.

4. WHERE INFORMATION MAY BE AT VARIANCE BETWEEN PLANS AND SPECIFICATIONS, THE PLANS SHALL GOVERN. HOWEVER, IF CERTAIN INFORMATION IS NOTED ONLY ON THE PLANS OR ONLY IN THE SPECIFICATIONS, THE INFORMATION WILL BE CONSIDERED AS VALID AS BEING NOTED ON PLANS AND IN THE SPECIFICATIONS.

5. THE CONTRACTOR SHALL VISIT THE PROJECT SITE TO VERIFY EXISTING CONDITION AND IDENTIFY VISIBLE PROBLEM AREAS OR DIFFICULTIES IN ORDER TO INCLUDE ALL COST IN BASE BID.

6. IF SPACE IS AVAILABLE, THE OWNER MAY PERMIT THE CONTRACTOR TO STORE SOME MATERIALS, EQUIPMENTS AND TOOLS ON THE SITE IN AN AREA APPROVED BY THE OWNER. THE CONTRACTORS ACCEPTS FULL RESPONSIBILITY FOR ANY AND ALL STORED MATERIALS, EQUIPMENTS AND TOOLS.

7. THE GENERAL CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND GRADE CONDITIONS, (BOTH NEW AND EXISTING) REPORTING ANY DISCREPANCIES TO THE ARCHITECT/ ENGINEER PRIOR TO ORDERING MATERIALS OR PROCEEDING WITH ANY PHASE OF THE WORK.

8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL MATERIALS (UNLESS NOTED OTHERWISE) AND WORKMANSHIP IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL BUILDING CODES AND THEIR REQUIREMENTS.

9. GENERAL CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ARCHITECT/ENGINEER APPROVAL FOR ALL ITEMS CALLED FOR OR INDICATED ON PLANS BUT NOT SPECIFICALLY DETAILED, WHERE FURTHER CLARIFICATION FOR CONSTRUCTION IS REQUIRED, THE ARCHITECT/ ENGINEER WILL SUBMIT DETAILS ON REQUEST.

10. ALL WORK SHALL BE DONE IN A THOROUGH AND WORKMANLIKE MANNER IN ACCORDANCE WITH THE APPLICABLE SPECIFICATIONS AND DRAWINGS. THE LATEST EDITION OF THE APPLICABLE CODES (FOR ANY SPECIFIC WORK) SHALL BE FALLOWED EXCEPT WHERE LOCAL REGULATIONS ARE MORE STRINGENT IN WHICH CASE LOCAL REGULATIONS SHALL GOVERN.

11. THE CONTRACTOR SHALL COMPARE STRUCTURAL SECTIONS WITH ARCHITECTURAL SECTIONS AND REPORT ANY DISCREPANCY TO THE ARCHITECT/ENGINEER PRIOR TO FABRICATION OR INSTALLATION OF STRUCTURAL MEMBERS.

12. REFER TO ALL CONSTRUCTION DOCUMENTS FOR REQUIREMENTS WHICH MAY AFFECT THE WORK IN ANOTHER DISCIPLINE AND COORDINATE WORK.

13. DIMENSIONS ARE FACE OF CONCRETE, FACE OF MASONRY, AND CENTER LINE OF ANY PARTITIONS UNLESS INDICATED OTHERWISE.

14. REFER TO DETAILS FOR ADDITIONAL DIMENSIONAL INFORMATION.

15. SEE ARCHITECTURAL DRAWINGS FOR FLOOR ELEVATIONS, FLOOR SLOPES AND THE LOCATION OF DEPRESSED FLOOR AREAS.

16. ELEVATIONS INDICATED ON THE GENERAL, ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, FIRE PROTECTION AND PLUMBING DRAWINGS AMONG OTHERS ARE BASED ON AN ASSIGNED REFERENCE ELEVATION OF THE CURRENT FINISH FLOOR ELEVATION. THE ACTUAL FIRST FLOOR ELEVATIONS ARE BASED ON THE DATUM SHOWN ON THE TOPOGRAPHIC AS-BUILT, EXISTING GRADING PLAN AND/OR THE PROPOSED GRADING PLAN SHEETS.

17. PRINCIPAL OPENINGS IN THE STRUCTURE ARE SHOWN ON THESE DRAWINGS. THE GENERAL CONTRACTOR SHALL EXAMINE THE ARCHITECTURAL MECHANICAL AND PLUMBING DRAWINGS FOR REQUIRED OPENINGS AS THEY SHALL BE PROVIDED FOR WHETHER SHOWN ON THESE DRAWINGS OR NOT. GENERAL CONTRACTOR SHALL VERIFY SIZE AND LOCATION OF ALL OPENINGS WITH ALL SUB-CONTRACTORS PRIOR TO CONSTRUCTION.

18. DO NOT SCALE DIMENSIONS FROM DRAWINGS. THE CONTRACTOR SHALL REQUEST, FROM THE ARCHITECT/ ENGINEER NECESSARY DIMENSIONS NOT SHOWN ON THE DRAWINGS.

19. IF ANY BIDDER IS IN DOUBT AS TO THE INTENT OF THE PLANS OR SPECIFICATIONS, THEY SHALL REQUEST AN INTERPRETATION FROM THE ARCHITECT/ENGINEER IN WRITING AT LEAST TEN (10) DAYS PRIOR TO THE BID DATE.

20. THE WORD "PROVIDE" MEANS "FURNISH AND INSTALL".

21. THE STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE, AND, EXCEPT WHERE SPECIFICALLY SHOWN, DO NOT INDICATE THE METHOD OR MEANS OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, PROCEDURES, TECHNIQUES, AND SEQUENCE. ALL APPLICABLE SAFETY REGULATIONS TO BE FOLLOWED STRICTLY.

22. THE STRUCTURE AS BEEN DESIGNED TO RESIST DESIGN LOADS ONLY AS A COMPLETED STRUCTURE. APPLICATIONS OF CONSTRUCTION LOADS TO THE PARTIALLY COMPLETED STRUCTURE SHALL BE CONSIDERED BY THE CONTRACTOR AND SO INCLUDED IN THE DESIGN OF SHORING, BRACING, FRAMEWORK, AND ANY OTHER SUPPORTING ELEMENTS PROVIDED FOR CONSTRUCTION OF THE STRUCTURE. DURING ERECTION AND UNTIL ALL PERMANENT CONNECTIONS ARE MADE, THE CONTRACTOR MUST PROVIDE TEMPORARY BRACING FOR THE STRUCTURE IN ALL DIRECTIONS.

23. SEE PLANS AND SPECIFICATIONS FOR ALL WORKS REQUIRING INSPECTION, TESTING AND/OR CERTIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE THOSE WORKS.

24. THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN CLEAN AT ALL TIME THE CONSTRUCTION SITE. THE CONTRACTOR ALSO SHALL BE RESPONSIBLE OF REMOVE AND DISPOSE OUT OF PROPERTY ALL THE DEBRIS AND GARBAGE GENERATED BY THE CONSTRUCTION WORKS.

25. THE CONTRACTOR SHALL MADE ALL REASONABLE EFFORTS TO RECYCLE AND RECOVER CONSTRUCTION AND DEMOLITION WASTE FROM THE PROJECT. A MINIMUM OF 50% BY WEIGHT, OF TOTAL PROJECT SOLID WASTE SHALL BE DIVERTED FROM THE LANDFILL IN ACCORDANCE WITH THE EXECUTIVE ORDER 13423 "STRENGTHENING FEDERAL ENVIRONMENTAL, ENERGY AND TRANSPORTATION MANAGEMENT" JANUARY 24, 2007.

26. THE CONTRACTOR SHALL PROVIDE ON-SITE INSTRUCTIONS FOR SEPARATING, HANDLING, RECYCLING SALVAGE, REUSE AND RETURN METHODS TO BE USED BY ALL PARTIES AT THE APPROPRIATE STAGES OF THE PROJECT. RECORDS SHALL BE MAINTAINED TO DOCUMENT THE QUANTITY OF WASTE DISPOSED OF BY LANDFILL OR INCINERATION. THE CONTRACTOR SHALL SUBMIT THIS REPORT AND THE DISPOSAL MANIFESTO OF ALL NON-HAZARDOUS CONSTRUCTION AND DEMOLITION WASTE GENERATION.

27. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING, FOLLOW UP AND OBTAINING ALL APPLICABLE PERMITS FOR THE REALIZATION OF THE PROJECT AS PER JOINT PERMIT REGULATIONS FOR BUILDING PERMITS AND LAND USE ADOPTED BY THE PERMIT MANAGEMENT OFFICE (OGPE IN SPANISH) UNDER LAW 161 AND FOR ANY AUTONOMOUS MUNICIPALITY OF THE COMMONWEALTH OF PUERTO RICO, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

SINGLE OPERATIONAL INCIDENTAL PERMIT (PUI) AND/OR PERMITS FOR INSTALLATION OF SIGNS AMONG OTHERS.

ABBREVIATIONS:

A

ø	—	DIAMETER OR ROUND
#	—	POUND OR NUMBER
A/C	—	AIR CONDITIONER
AHU	—	AIR HANDLING UNIT
ALUM.	—	ALUMINUM
APPX.	—	APPROXIMATE
ARCH.	—	ARCHITECTURAL
ASH	—	AUTOMATIC SPRINKLER HEAD
ASR	—	AUTOMATIC SPRINKLER RISER
ASU	—	AIR SUPPLY UNIT
AUX.	—	AUXILIARY
AV	—	AUDIO VISUAL
AVG.	—	AVERAGE
AVT	—	AIR VENT

B

BD.	—	BOARD
BLDG.	—	BUILDING
BLKG.	—	BLOCKING
BM.	—	BEAM
BPL	—	BASE PLATE
BRG.	—	BEARING
BRCG.	—	BRACING

C

CAB.	—	CABINET
CAV.	—	CAVITY
CEM.	—	CEMENT
CB	—	CATCH BASIN
CBP	—	CEMENT BOARD WITH PLASTER
CJ	—	CONTROL JOINT
CL	—	CENTER LINE
CLG.	—	CEILING
CLO.	—	CLOSET
CMU	—	CONCRETE MASONRY UNIT
CO	—	CLEAN OUT
COL.	—	COLUMN
CONC.	—	CONCRETE
CONF.	—	CONFERENCE
CONSTR—		CONSTRUCTION
CONT.	—	CONTINUOS
CORR.	—	CORRIDOR
CS	—	CONCRETE SEALED
CT	—	CERAMIC TILE
CU FT	—	CUBIC FEET
CU YD	—	CUBIC YARD
CW	—	COLD WATER PIPING

D

D	—	DEEP DEPTH
DBL.	—	DOUBLE
DET.	—	DETAIL
DIA.	—	DIAMETER
DIM.	—	DIMENSION
DN.	—	DOWN
DMPR.	—	DAMPER
DR.	—	DOOR
DS.	—	DOWNSPOUT
DWG.	—	DRAWING

E

EA.	—	EACH
EF	—	EACH FACE
ELEV.	—	ELEVATION
ELEC.	—	ELECTRICAL
EQ	—	EQUAL/-LY
EQUIP.	—	EQUIPMENT
EXIST.	—	EXISTING
EXP.	—	EXPANSION
EXT.	—	EXTERIOR

F

F/	—	FACE OF
FD	—	FLOOR DRAIN
FE	—	FIRE EXTINGUISHERS
FF	—	FINISH FLOOR
FDTN.	—	FOUNDATION
FH	—	FIRE HYDRANT
FIN.	—	FINISH
FLUOR.	—	FLUORESCENT
FR.	—	FRAME
FRTW	—	FIRE RETARDANT TREATED WOOD
FTG.	—	FOOTING

G

GA.	—	GAGE
GALV.	—	GALVANIZED
GEN.	—	GENERAL
GWB	—	GYPSUM WALL BOARD

H

HB	—	HOSE BIBB
HC	—	HOLLOW CORE
HDW	—	HARDWARE
HM	—	HOLLOW METAL
HORIZ.	—	HORIZONTALLY
HP	—	HIGH POINT
HR.	—	HOUR
HVAC	—	HEATING, VENTILATION, A/C
HW	—	HOT WATER PIPING
HWY	—	HIGHWAY

I

ID	—	INTERIOR DESIGN
INCL.	—	INCLUDED
INT.	—	INTERIOR

J

JAN.	—	JANITOR
JT.	—	JOINT

K

KIT.	—	KITCHEN

L

LAM.	—	LAMINATE/ION
LAV.	—	LAVATORY
LBL.	—	LABEL
LH	—	LEFT HAND
LP	—	LOW POINT
LTD.	—	LIMITED
LTWT	—	LIGHTWEIGHT
LVR.	—	LOUVER

M

MAINT.	—	MAINTENANCE
MAS.	—	MASONRY
MATL.	—	MATERIAL
MAX.	—	MAXIMUM
MED.	—	MEDIUM
MECH.	—	MECHANICAL
MFR.	—	MANUFACTURER
MH.	—	MANHOLE
MID.	—	MIDDLE
MIN.	—	MINIMUM
MISC.	—	MISCELLANEOUS
MO	—	MASONRY OPENING
MTD	—	MOUNTED, MOUNTING
MTL.	—	METAL

N

NA	—	NOT APPLICABLE
NIC	—	NOT IN CONTRACT
NO.	—	NUMBER
NTS	—	NOT TO SCALE

O

OC	—	ON CENTER
OFF.	—	OFFICE
OPEN.	—	OPENNING
OPT.	—	OPTIONAL

P

PAR.	—	PARALLEL
PERIM.	—	PERIMETER
PH.	—	PHASE
PLBG.	—	PLUMBING
PNL.	—	PANEL
PROJ.	—	PROJECT
PROP.	—	PROPERTY
PTD.	—	PAINTED
PTE	—	EPOXY PAINT
PVC	—	POLYVINYLCHLORIDE
PWD.	—	PLYWOOD

Q

QTY.	—	QUANTITY
QT	—	QUARRY TILE

R

R.	—	RADIUS
RD	—	ROOF DRAIN
REC.	—	RECESSED
RECT.	—	RECTANGULAR
RD.	—	ROAD
REINF.	—	REINFORCE
REV.	—	REVISION
RFG.	—	ROOFING
RH	—	RIGHT HAND
RI.	—	RISER
RM.	—	ROOM
RO	—	ROUGH OPENING
ROW	—	RIGHT OF WAY
RV	—	ROOF VENT

S

SAN.	—	SANITARY
SC	—	SOLID CORE
SCLG	—	SUSPENDED CEILING
SCHED.	—	SCHEDULE
SCP	—	SMOOTH CEMENT PLASTER
SCWD	—	SOLID CORE WOOD
SD	—	SMOKE DETECTOR
SL	—	SEA LEVEL
SF	—	SQUARE FOOT
SGL.	—	SINGLE
SHT.	—	SHEET
SIM.	—	SIMILAR
SQ. FT.	—	SQUARE FOOT
SQ. IN.	—	SQUARE INCH
SQ. YD.	—	SQUARE YARD
SP	—	STAND PIPE
SPECS.	—	SPECIFICATIONS
SS	—	STORM SEWER
S/S	—	STAINLESS STEEL
ST.	—	STREET
STR.	—	STAIR
STO.	—	STORAGE
STD.	—	STANDARD
STL.	—	STEEL
STRUC.	—	STRUCTURAL
SUSP.	—	SUSPENDED
SW.	—	SWITCH
SWR.	—	SEWER

T

T/	—	TOP OF
TD	—	TRENCH DRAIN
TEL.	—	TELEPHONE
TEMP.	—	TEMPORARY
TERM.	—	TERMINAL
THK	—	THICK/-NESS
THRU.	—	THROUGH
TR.	—	TREAD
TS	—	TUBE STEEL
TV.	—	TELEVISION
TYP.	—	TYPICAL

U

UNO	—	UNLESS NOTED OTHERWISE
UR.	—	URINAL
UTIL.	—	UTILITY

V

VAN.	—	VANITY
VAR.	—	VARIES
VCT	—	VINYL CONPOSITION TILE
VERT.	—	VERTICAL/-LY
VEST	—	VESTIBULE
VIF	—	VERIFY IN FIELD
VOL.	—	VOLUME
VS	—	VENT STACK
VWC	—	VINYL WALL COVERING

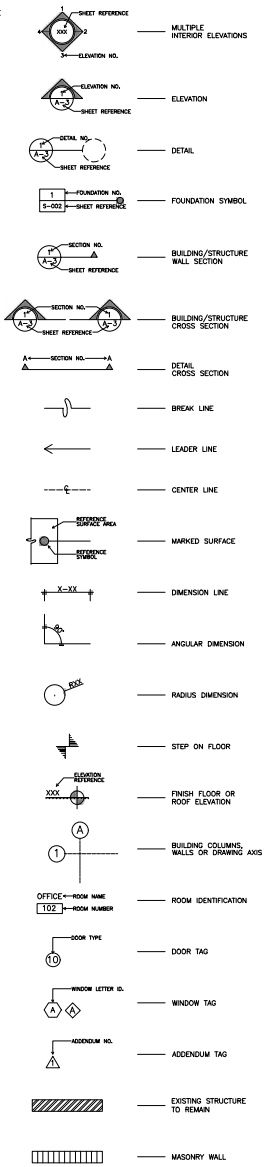
W

W/	—	WITH
W/O	—	WITHOUT
W/W	—	WALL TO WALL
WC	—	WATER CLOSET
WD.	—	WOOD
WH	—	WATER HEATER
WT.	—	WEIGHT
WWF	—	WELDED WIRE FABRIC

Y

YD	—	YARD DRAIN

GENERAL SYMBOLS LEGEND:



MULTIPLE INTERIOR ELEVATIONS
ELEVATION
DETAIL
FOUNDATION SYMBOL
BUILDING/STRUCTURE WALL SECTION
BUILDING/STRUCTURE CROSS SECTION
DETAIL CROSS SECTION
BREAK LINE
LEADER LINE
CENTER LINE
MARKED SURFACE
DIMENSION LINE
ANGULAR DIMENSION
RADIUS DIMENSION
STEP ON FLOOR
FINISH FLOOR OR ROOF ELEVATION
BUILDING COLUMNS, WALLS OR DRAWING AXIS
ROOM IDENTIFICATION
DOOR TAG
WINDOW TAG
ADDENDUM TAG
EXISTING STRUCTURE TO REMAIN
MASONRY WALL

GYPSUM BOARD WALL
GYPSUM BOARD WALL W/ INSULATION OR SOUND ATTENUATION BLANKET
REINFORCED CONCRETE WALL
STEEL MESH PARTITION
REINFORCED CONCRETE COLUMN
EARTH SURFACE
GRASS SURFACE
CONCRETE BLOCK SURFACE
TILE SURFACE
GLASS SURFACE
GRATING AREA
OPENING AREA
ACOUSTICAL CEILING
SINGLE HINGED DOOR
DOUBLE HINGED DOOR
BIFOLD DOOR
POCKET DOOR
SINGLE SLIDING DOOR
DOUBLE SLIDING DOOR
ROLLING DOOR

WINDOW
CHAIN LINK FENCE
BARBED WIRE FENCE
NOTE NUMBER
ARROW INDICATE ELEMENT WERE NOTE APPLIES
NOTE IDENTIFICATION

PROJECT ADDRESS

ELDERLY SERVICE CENTER
CALLE FERROCARRIL #11 BO. PUEBLO, LAJAS, P.R. 00667

GPS LATITUDE/LONGITUDE: 18.049416.08, -67.05761236

OWNER

LAJAS MUNICIPALITY

REGISTER No.

358-032-072-01

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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SIGNATURE

William Melendez Rivas
Puerto Rico

FILE

Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

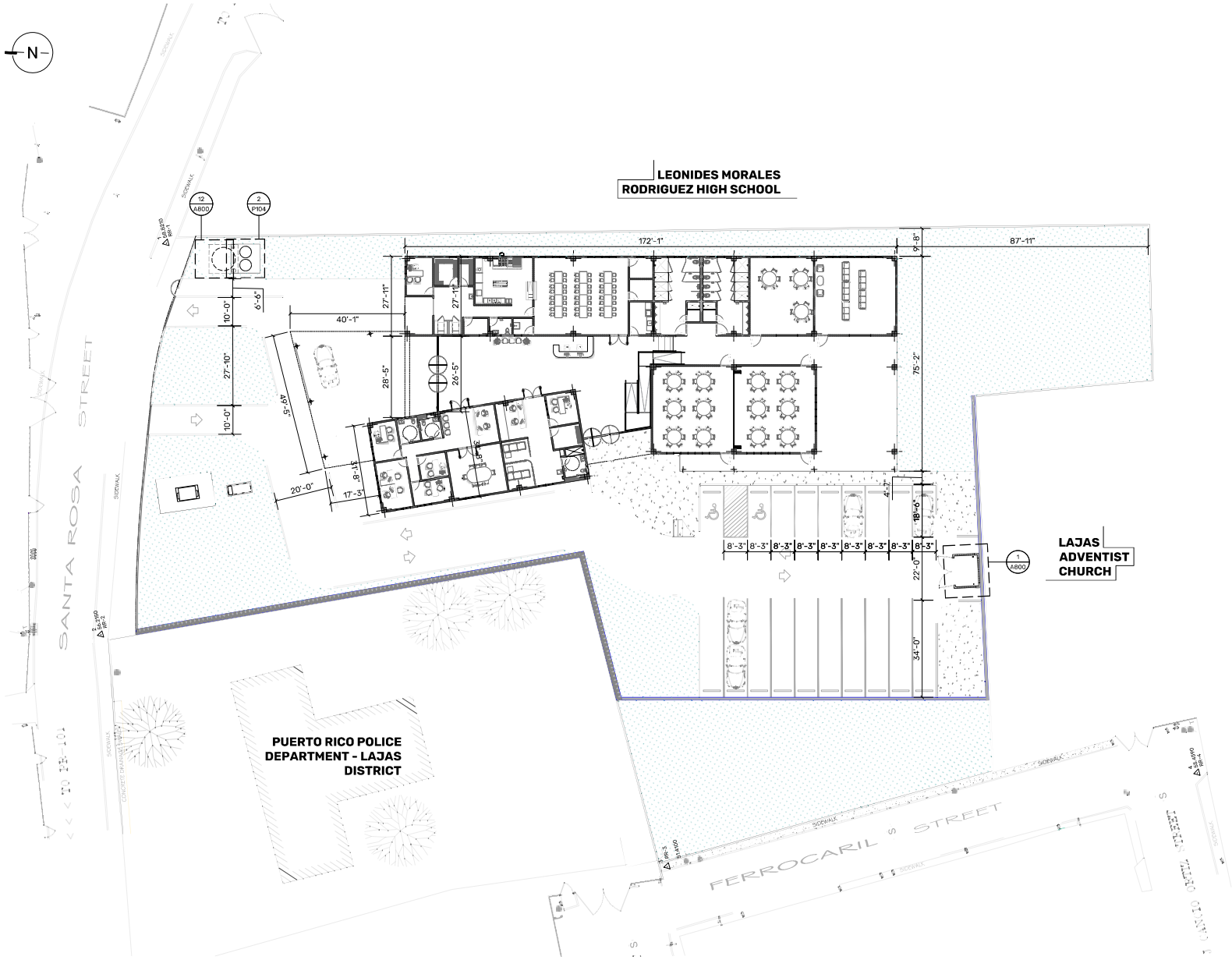
TITLE

ARCHITECTURAL NOTES

DRAWING No.

A001

P R O P O S E D G R O U N D S I T E P L A N



1 PROPOSED GROUND SITE PLAN

SCALE: 1/16" = 1'-0"

PROJECT ADDRESS

ELDERLY SERVICE CENTER
CALLE FERROCARRIL #11 BO. PUEBLO,
LAJAS, P.R. 00667

GPS LATITUDE/LONGITUDE:
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SIGNATURE

William Melendez Rivas
Puerto Rico

FILE

Dwg Name: INGENIUM GROUP

Drawn by: INGENIUM GROUP

Revised by: ING. WILLIAM MELENDEZ

Plot Scale: AS SHOWN

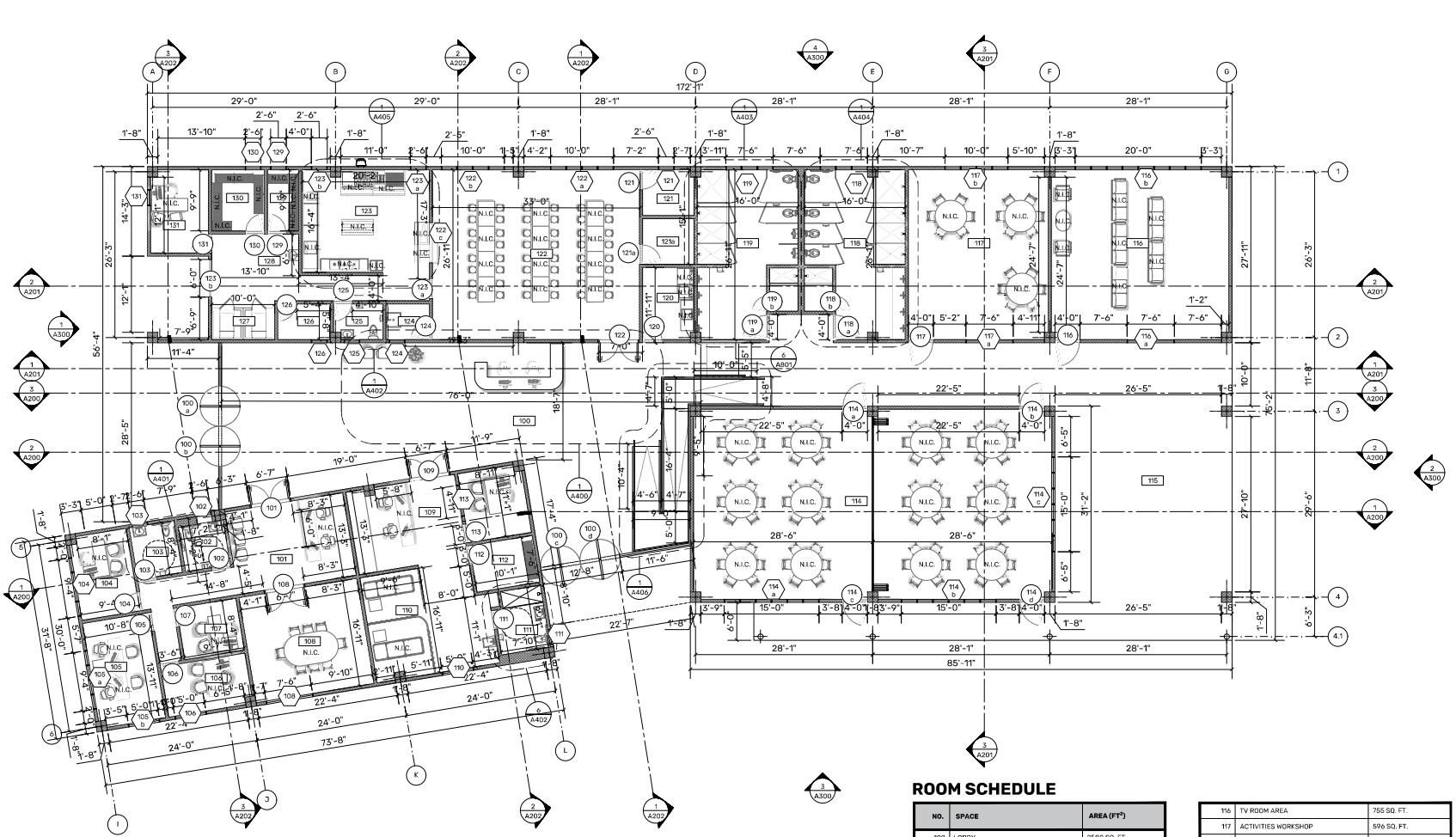
Progress Print:

TITLE

PROPOSED GROUND SITE PLAN

DRAWING No.

A002



1 PROPOSED GROUND FLOOR PLAN_BLDG 01, 02 & 03

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

NOTES

- FURNITURE AND REMOVABLE EQUIPMENT ILLUSTRATED AND MARKED N.I.C. (NOT IN CONTRACT), WILL NOT BE INCLUDED IN THE BASE BID FOR THE CONSTRUCTION CONTRACT. IT IS PROVIDED AS A DESIGN REFERENCE FOR ELECTRICAL AND MECHANICAL EQUIPMENT COORDINATION ONLY.

ROOM SCHEDULE

NO.	SPACE	AREA (FT²)
100	LOBBY	2580 SQ. FT.
101	ADMINISTRATIVE RECEPTION	350 SQ. FT.
102	RESTROOM 1	52 SQ. FT.
103	RESTROOM 2	60 SQ. FT.
104	OFFICE_1	122 SQ. FT.
105	OFFICE_2	178 SQ. FT.
106	OFFICE_3	108 SQ. FT.
107	OFFICE_4	80 SQ. FT.
108	CONFERENCE ROOM	320 SQ. FT.
109	NURSING RECEPTION	234 SQ. FT.
110	NURSING AREA	322 SQ. FT.
111	NURSING BATHROOM	74 SQ. FT.
112	NURSING STORAGE	76 SQ. FT.
113	NURSING OFFICE	110 SQ. FT.
114	ACTIVITY AREA	1705 SQ. FT.
115	TERRACE	1612 SQ. FT.
116	TV ROOM AREA	755 SQ. FT.
117	ACTIVITIES WORKSHOP	596 SQ. FT.
118	WOMEN'S BATHROOM	398 SQ. FT.
119	MEN'S BATHROOM	400 SQ. FT.
120	LAUNDRY	93 SQ. FT.
121	STORAGE	58 SQ. FT.
121a	ELECTRIC ROOM	59 SQ. FT.
122	LUNCH AREA	881 SQ. FT.
123	KITCHEN	361 SQ. FT.
124	UTILITY ROOM	39 SQ. FT.
125	KITCHEN BATHROOM	43 SQ. FT.
126	DISPOSABLE STORAGE	47 SQ. FT.
127	WALK IN FREEZER	50 SQ. FT.
128	LAVATORY	210 SQ. FT.
129	CHEMICAL STORAGE	48 SQ. FT.
130	DRY STORAGE	81 SQ. FT.
131	KITCHEN OFFICE	120 SQ. FT.
TOTAL		12.223 SQ. FT.

PROJECT ADDRESS
ELDERLY SERVICE CENTER
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LAJAS, P.R. 00667

GPS LATITUDE/LONGITUDE:
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OWNER
LAJAS MUNICIPALITY

REGISTER No.
358-032-072-01

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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IMPORTANT NOTES TO THE CONTRACTOR:

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CERTIFICATION

I, WILLIAM MELENDEZ RIVAS, LIC. 16383, CERTIFY THAT I AM THE PROFESSIONAL WHO MADE, DESIGNED OR PREPARED THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 14-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY AND WITH THE LAW NO. 399 OF MAY 15, 1938, AS AMENDED; ACT NO. 96 OF JULY 6, 1978, AS AMENDED, AS APPLICABLE. I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY ENDEAVOR OF NEGLIGENCE EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE DEPR.

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SIGNATURE

William Meléndez Rivas
Puerto Rico

FILE

Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

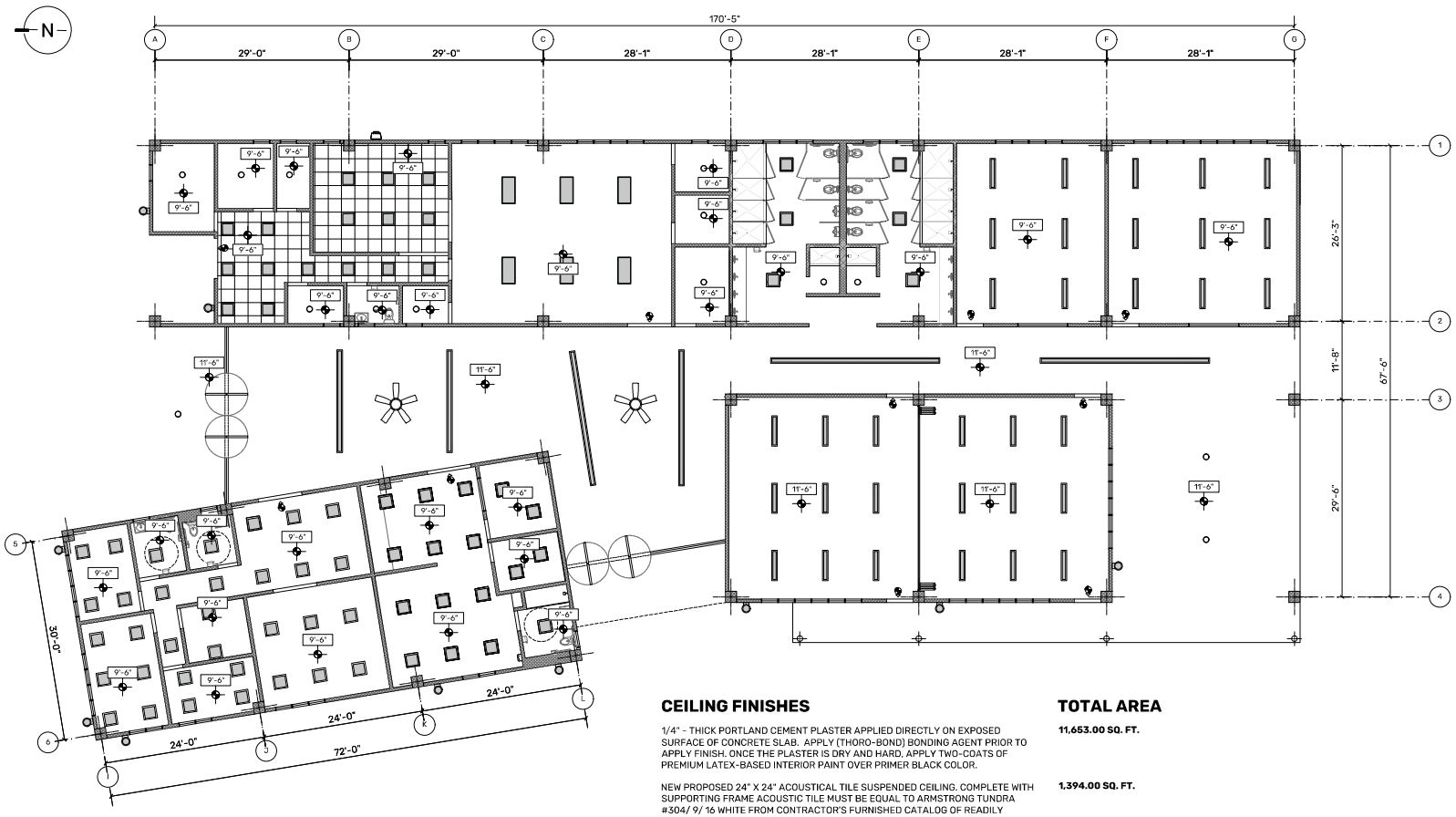
TITLE

PROPOSED GROUND FLOOR PLAN_BLDG 01 02 & 03

DRAWING No.

A100

P R O P O S E D R E F L E C T E D C E I L I N G



1 PROPOSED REFLECTED CEILING
SCALE: 1/8"= 1'-0"

CEILING FINISHES

1/4" - THICK PORTLAND CEMENT PLASTER APPLIED DIRECTLY ON EXPOSED SURFACE OF CONCRETE SLAB. APPLY (THORO-BOND) BONDING AGENT PRIOR TO APPLY FINISH. ONCE THE PLASTER IS DRY AND HARD, APPLY TWO-COATS OF PREMIUM LATEX-BASED INTERIOR PAINT OVER PRIMER BLACK COLOR.

NEW PROPOSED 24" X 24" ACOUSTICAL TILE SUSPENDED CEILING. COMPLETE WITH SUPPORTING FRAME ACOUSTIC TILE MUST BE EQUAL TO ARMSTRONG TUNDRA #304/ 9/ 16 WHITE FROM CONTRACTOR'S FURNISHED CATALOG OF READILY AVAILABLE MODELS. ALL TILES SHALL BE. SAG-RESISTANT AND FIRE-RATED.

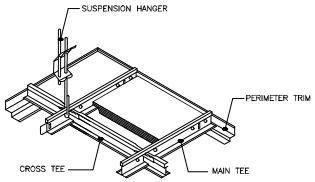
TOTAL AREA

11,653.00 SQ. FT.

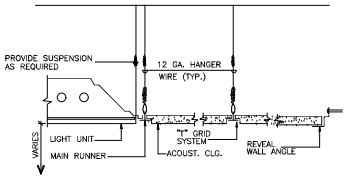
1,394.00 SQ. FT.

NOTES ON CEILING INTERVENTION:

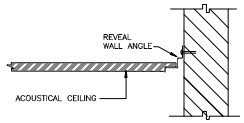
1. CEILING SYSTEM MUST BE INSTALLED ACCORDING TO NFPA STANDARDS. CONTRACTOR MUST SUBMIT FINAL LAYOUT FROM THE EQUIPMENT OF THE NEW SYSTEM. THE INTERIOR CONTRACTOR MUST ENSURE THAT ALL THE PERIMETER (DEMISING) WALLS OF THE LOCAL, REMAINS IN GOOD CONDITIONS TO RECEIVE THE NEW CEILING SYSTEM.
2. QUANTITY AND LOCATION OF SMOKE DETECTION DEVICES SHOWN IN THIS PLAN IS SUGGESTED FURNISHER, COMPLETE WITH THE CORRESPONDENT CODE COMPLIANCE CERTIFICATION. CHANGES TO SUGGESTED LAYOUT ARE ACCEPTABLE IN AS MUCH AS THEY LIE WITHIN FURNISHER'S CERTIFICATION.
3. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THE ARCHITECT AWARE OF ANY QUESTIONS OR DISCREPANCIES REGARDING THE SCOPE OF WORK, EXISTING CONDITIONS, AND/OR INTENT. A WRITTEN CLARIFICATION FROM THE ARCHITECT IS REQUIRED PRIOR TO PROCEEDING WITH THE WORK IN QUESTION.
4. IBC CATEGORY D: INSTALLATION REQUIREMENTS FOR CLASS D-TO ASTM C636 AND ASTM E580
   - 4.1. MINIMUM 2" WALL MOLDING
   - 4.2. SUSPENSION SYSTEM MUST BE ATTACHED TO TWO ADJACENT WALLS-OPPOSITEWALLS MUST HAVE A 3/4" CLEARANCE
   - 4.3. ENDS OF MAIN BEAMS AND CROSS TEES MUST BE TIED TOGETHER TO PREVENT THEIR SPREADING
   - 4.4. HEAVY-DUTY SUSPENSION SYSTEM
   - 4.5. CEILING AREAS OVER 1,000 SF MUST HAVE HORIZONTAL RESTRAINT WIRE OR RIGID BRACING
   - 4.6. CEILING AREAS OVER 2,500 SF MUST HAVE SEISMIC SEPARATION JOINTS OR FULL HEIGHT PARTITIONS
   - 4.7. CEILINGS WITHOUT RIGID BRACING MUST HAVE 2" OVERSIZED TRIM RINGS FOR PENETRATIONS
   - 4.8. CHANGES IN CEILING PLANE MUST HAVE POSITIVE BRACING
   - 4.9. CABLE TRAYS AND ELECTRICAL CONDUITS MUST BE INDEPENDENTLY SUPPORTED AND BRACED
   - 4.10. PERIMETER SUPPORT WIRES WITHIN 8"
5. FOR ELECTRICAL AND MECHANICAL SPECIFICATIONS REFER TO ELECTRICAL AND MECHANICAL PLANS.
6. ALL MEASUREMENTS ARE MINIMUM TO COMPLY WITH CODE. DO NOT SCALE DRAWINGS. CONTRACTOR MUST SUBMIT AN RFI TO THE ARCHITECT OF RECORD FOR CLARIFICATION.



2 TYPICAL SUSPENDED CEILING INSTALLATION
SCALE: NOT TO SCALE



3 TYPICAL SUSPENDED CEILING INSTALLATION
SCALE: NOT TO SCALE



4 SUSPENDED CEILING MEETING WALL
SCALE: NOT TO SCALE

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SIGNATURE

William Meléndez Rivas — Puerto Rico

FILE

Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

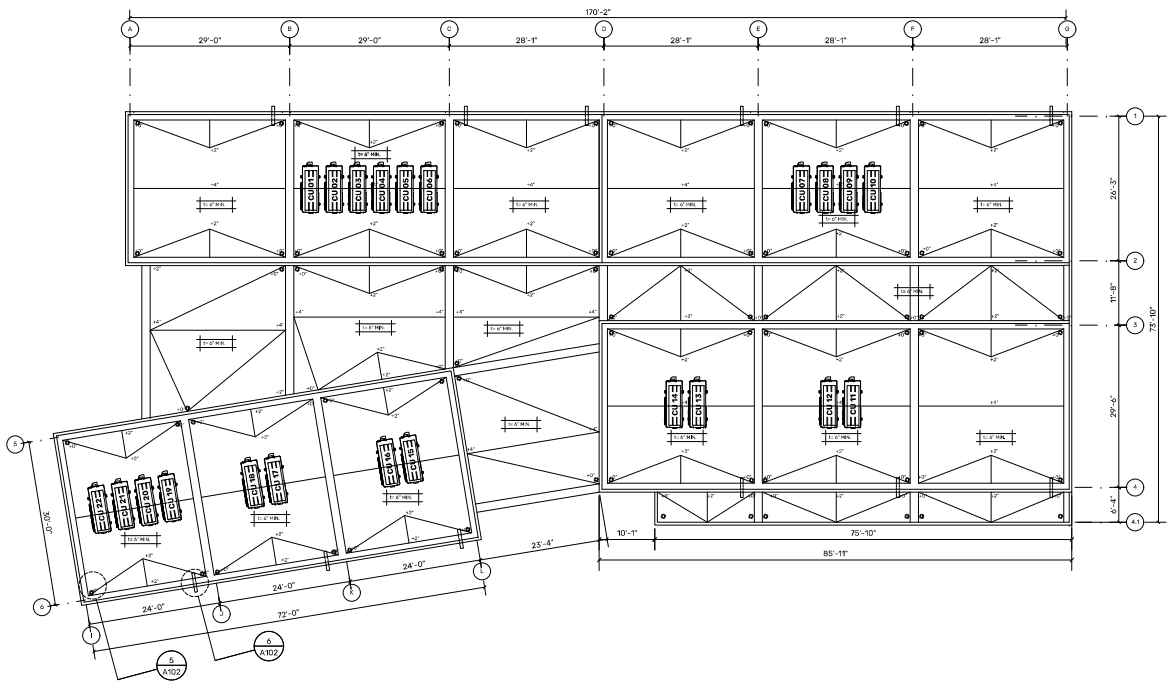
TITLE

PROPOSED REFLECTED CEILING

DRAWING No.

A101

P R O P O S E D R O O F P L A N



PROPOSED ROOF PLAN

SCALE: 3/32"=1'-0"

GENERAL NOTES

1. WARRANTY FOR THE WATERPROOFING TREATMENT SHALL BE A 10 YEARS BONDED WARRANTY IN ADDITION TO REGULAR MANUFACTURER AND INSTALLER WARRANTIES.

   -THE TEN (10) YEARS BONDED WARRANTY ON MATERIALS AND LABOR DEFECTS REQUESTED THE PROJECT SHALL BE: 50% OF THE TOTAL COST FOR THE FIRST FOUR (4) YEAR, 35% FOR THE NEXT FOUR (4) YEARS AND 15% FOR THE LAST TWO (2) YEARS.

2. ALL DEMOLITION AND CONSTRUCTION WORK SHALL BE COORDINATED WITH THE OWNER TO PREVENT POSSIBLE CONFLICTS WITH THE OWNER'S NORMAL WORKING CONDITIONS.

3. THE CONTRACTOR SHALL APPLY A SYSTEM EQUAL OR SUPERIOR TO THE ONE SPECIFIED. PROPOSED PRODUCTS SHALL HAVE EQUAL OR BETTER CHARACTERISTICS THAN THE ONE SPECIFIED. PRODUCTS WITH CHARACTERISTICS LESS THAN THE ONE SPECIFIED WILL NOT BE ACCEPTED FOR THIS PROJECT.

4. CONTRACTOR SHALL PROVIDE, USE, AND/OR INSTALL ANY COMPONENT OR PRODUCT FOR THE REQUIRED SYSTEM, NOT SPECIFIED BUT NECESSARY FOR THE PROPER INSTALLATION OF THE WATERPROOFING SYSTEM.

5. WORK SHALL BE VERIFY AND CERTIFIED BY A QUALIFIED REPRESENTATIVE FROM THE MANUFACTURER OF THE WATERPROOFING SYSTEM.

6. CONTRACTOR SHALL VISIT THE PROJECT SITE TO BECOME FAMILIAR WITH THE REQUIRED WORK AND SHALL VERIFY ACTUAL DIMENSIONS AND CONDITIONS TO CONSIDER ANY DIFFICULTIES AND COST IN BASE BID.

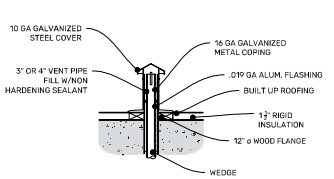
7. WORK SHALL BE PERFORMED BY PERSONNEL SKILLED IN THIS TRADE AND WITH THE BEST PRACTICE OF THE TRADE.

ROOF SCOPE OF WORK:

1. THE WATERPROOFING SYSTEM CONSISTS OF :
   A) PRESSURE WASH CLEAN ALL ROOF AREAS.
   B) APPLY ELASTOMERIC 100% ACRILIC ROOF COATING AS PER MANUFACTURER'S RECOMMENDATION.

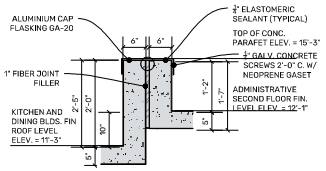
2. INSTALL CAP FLASHINGS AT ALL PARAPETS FOLLOWING MANUFACTURER,S RECOMENDATIONS SEE TYP. DETAIL.

3. INSTALL CHEM CURBS TO ANY TUBING THAT PASSES THROUGH THE WATERPROOFING SYSTEM.



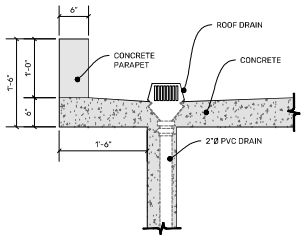
1 TYP. VENT PIPE DET.

SCALE: N.T.S.



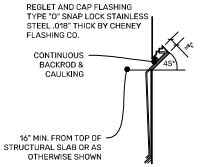
2 TYP. CAP FLASH DET.

SCALE: N.T.S.



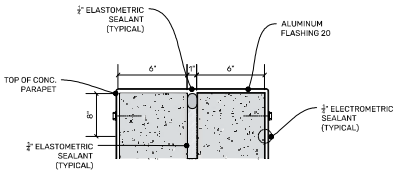
5 TYP. ROOF DRAIN DET.

SCALE: N.T.S.



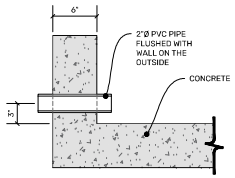
3 TYP. REGLET DET.

SCALE: N.T.S.



4 TYP. CAP FLASH DET.

SCALE: N.T.S.



6 TYP. OVERFLOW DET.

SCALE: N.T.S.

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Email: info@ingenium.group

SIGNATURE

William Melendez Rivas
Puerto Rico

FILE

Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

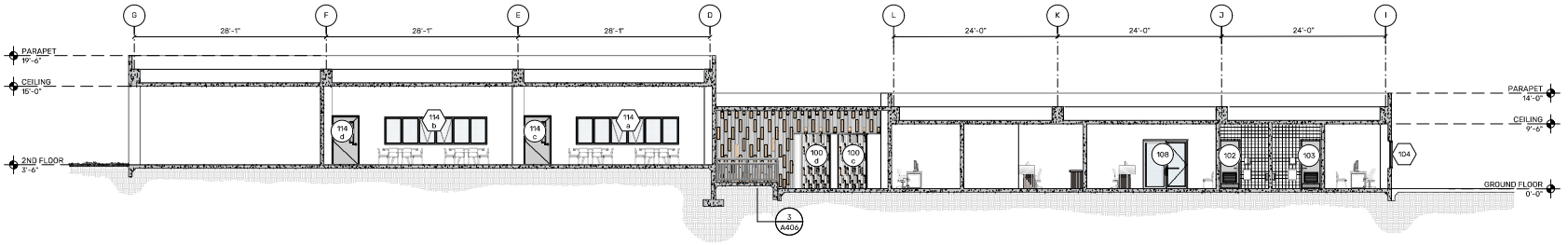
TITLE

PROPOSED ROOF PLAN

DRAWING No.

A102

P R O P O S E D S E C T I O N S



1 PROPOSED SECTION
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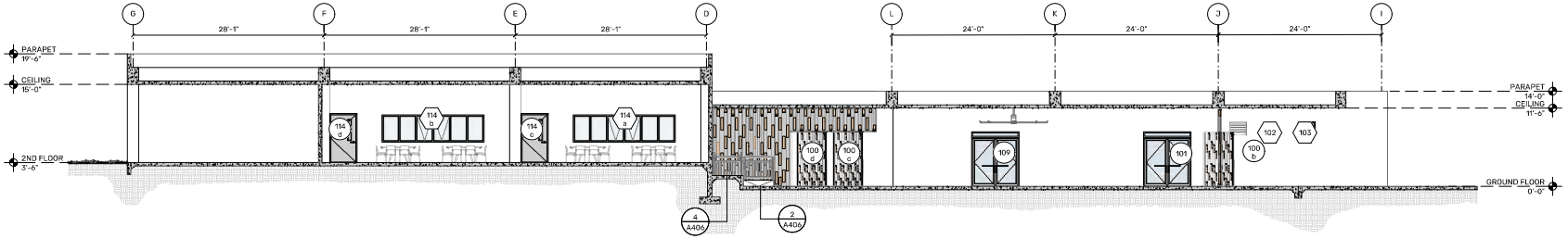

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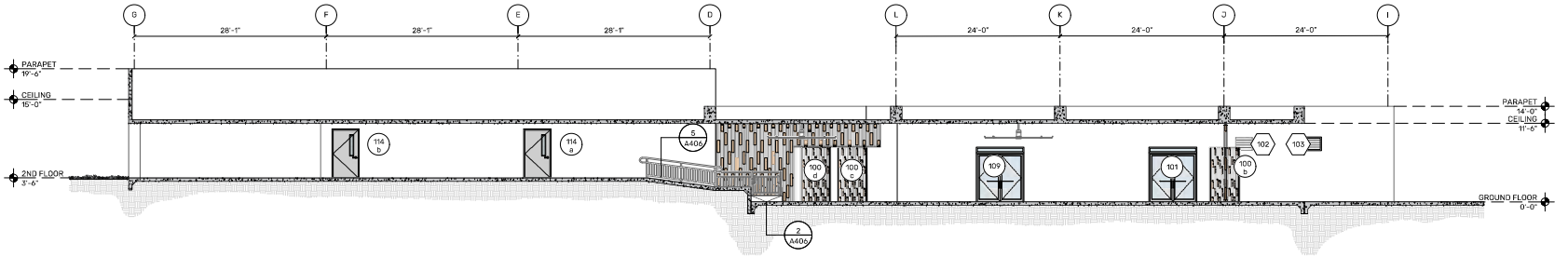

3 PROPOSED SECTION
SCALE: 1/8" = 1'-0"

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I, WILLIAM MELENDEZ RIVAS, LIC. 16385, CERTIFY THAT I AM THE PROFESSIONAL WHO MADE, DESIGNED OR PREPARED THOSE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 14-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY" AND WITH THE JLAW NO. 319 OF MAY 15, 1938, AS AMENDED, ACT NO. 96 OF JULY 6, 1978, AS AMENDED, AS APPLICABLE. I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY IGNORANCE OR NEGLIGENCE EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE OGPE.

INGENIUM PROFESSIONAL GROUP
654 Ave. Muñoz Rivera - Suite 1838
654 Plaza, San Juan, PR 00918
Tel. (787) 765-2610 / 2611
Email: info@ingenium.group

SIGNATURE

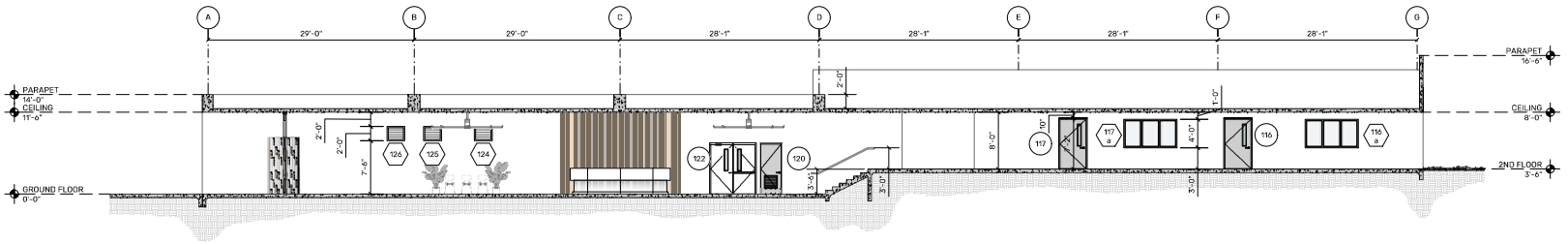
FILE
Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE

DRAWING No.

PAGE:

P R O P O S E D S E C T I O N S



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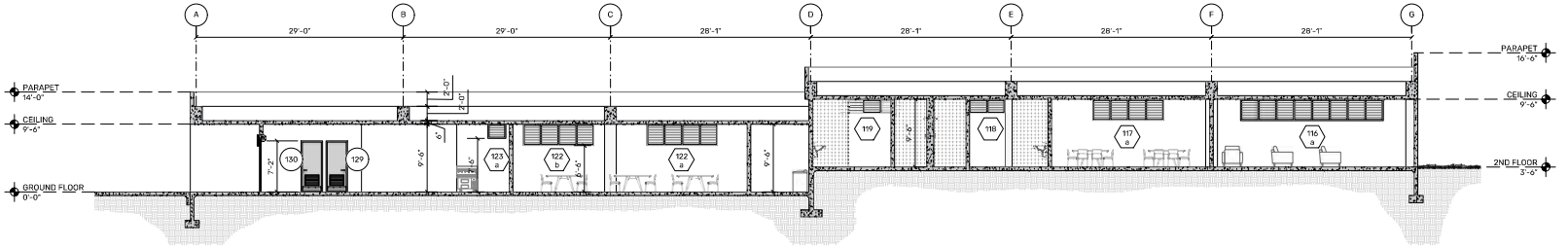

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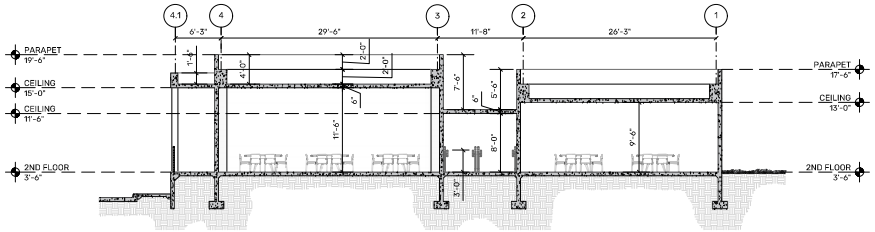

3 PROPOSED SECTION
SCALE: 1/8" = 1'-0"

PROJECT ADDRESS
ELDERLY SERVICE CENTER
CALLE FERROCARRIL #11 BO. PUEBLO,
LAJAS, P.R. 00667

GPS LATITUDE/LONGITUDE:
18.04941608, -67.05761236

OWNER
LAJAS MUNICIPALITY

REGISTER No.
358-032-072-01

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
--	--	--	--	--

IMPORTANT NOTES TO THE CONTRACTOR:

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CERTIFICATION

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www.ii-info@ingenium.group

SIGNATURE

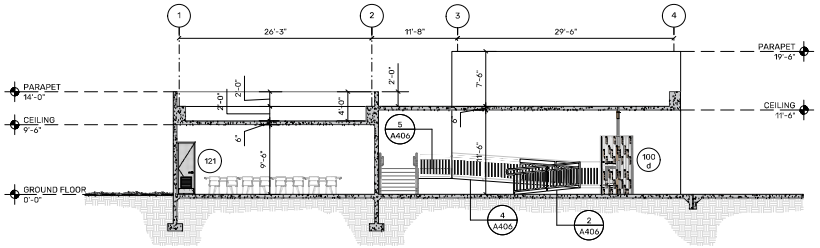
William Meléndez Rivas
Ingeniero
Licenciado
Puerto Rico

FILE

Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
PROPOSED GROUND FLOOR PLAN_OPTION 3

DRAWING No.
A201



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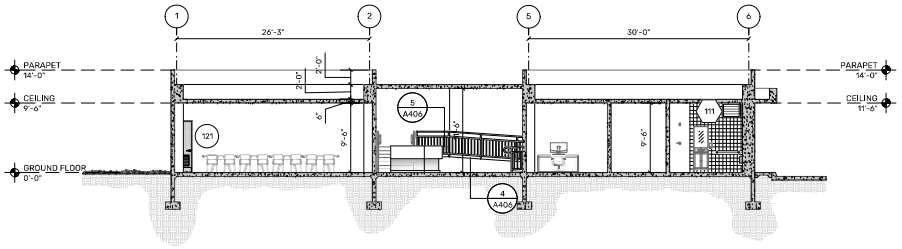

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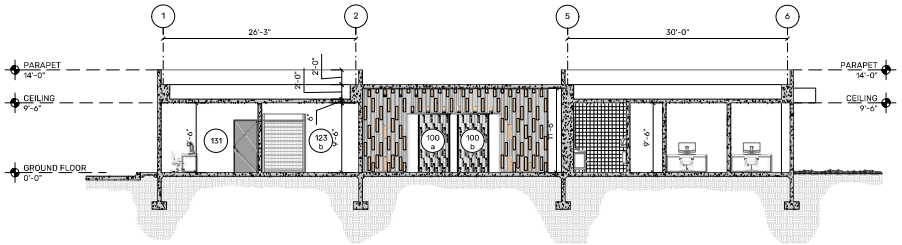

3 PROPOSED SECTION
SCALE: 1/8" = 1'-0"

PROJECT ADDRESS
ELDERLY SERVICE CENTER
CALLE FERROCARRIL #11 BO. PUEBLO,
LAJAS, P.R. 00667

GPS LATITUDE/LONGITUDE:
18.04941608, -67.05761236

OWNER
LAJAS MUNICIPALITY

REGISTER No.
3 5 8 - 0 3 2 - 0 7 2 - 0 1

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
--	--	--	--	--

IMPORTANT NOTES TO THE CONTRACTOR:

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CERTIFICATION

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SIGNATURE

William Meléndez Rivas — Ingeniero Licenciado — Puerto Rico

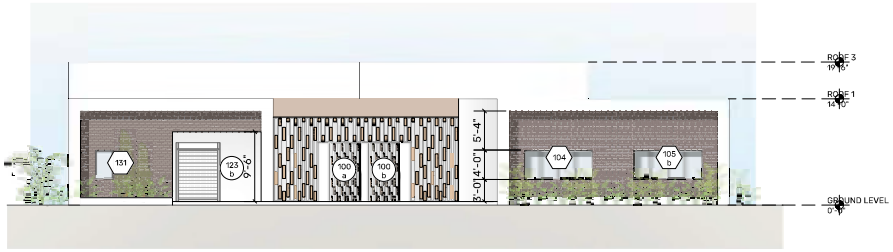
FILE

Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

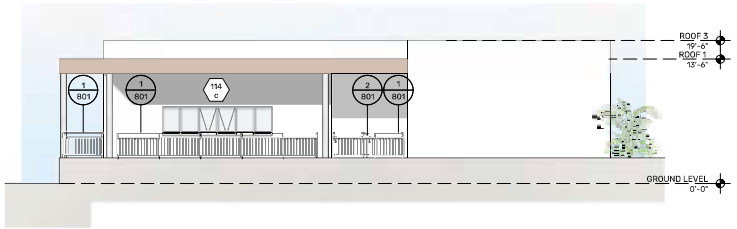
TITLE
PROPOSED GROUND FLOOR PLAN_OPTION 3

DRAWING No.
A202

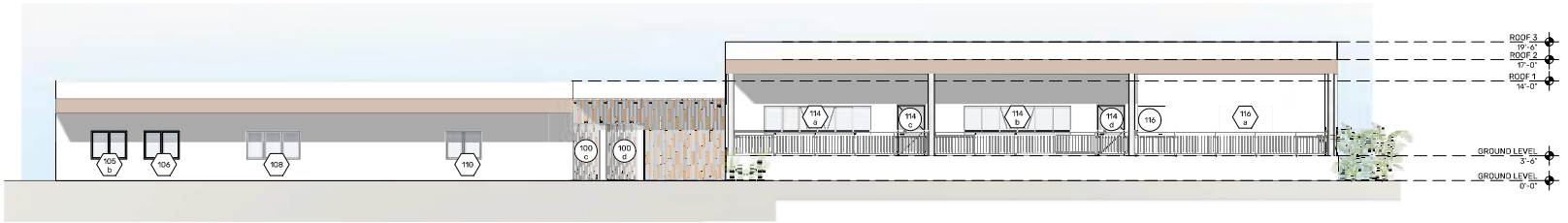
P R O P O S E D E L E V A T I O N S



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



2 PROPOSED ELEVATION
SCALE: 1/8" = 1'-0"



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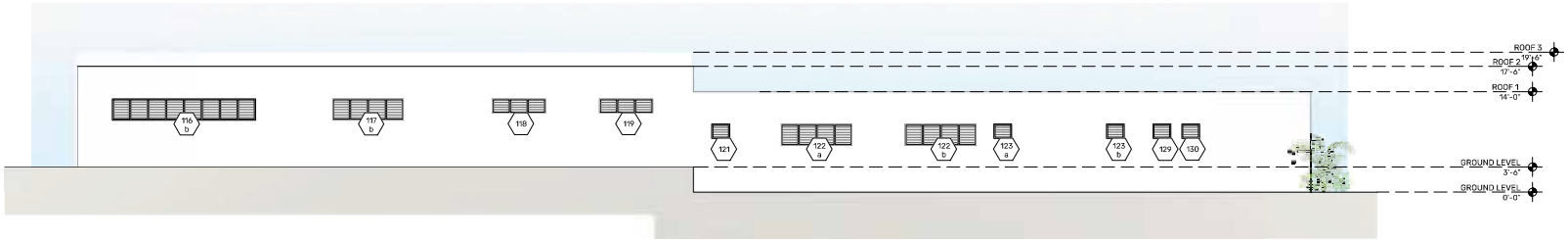
SCALE: 1/8" = 1'-0"



4 PROPOSED ELEVATION
SCALE: 1/8" = 1'-0"

PROJECT ADDRESS
ELDERLY SERVICE CENTER
CALLE FERROCARRIL #11 BO. PUEBLO,
LAJAS, P.R. 00667

GPS LATITUDE/LONGITUDE:
18.04941608, -67.05761236

OWNER
LAJAS MUNICIPALITY

REGISTER No.
3 5 8 - 0 3 2 - 0 7 2 - 0 1

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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www.ingenium.group

SIGNATURE

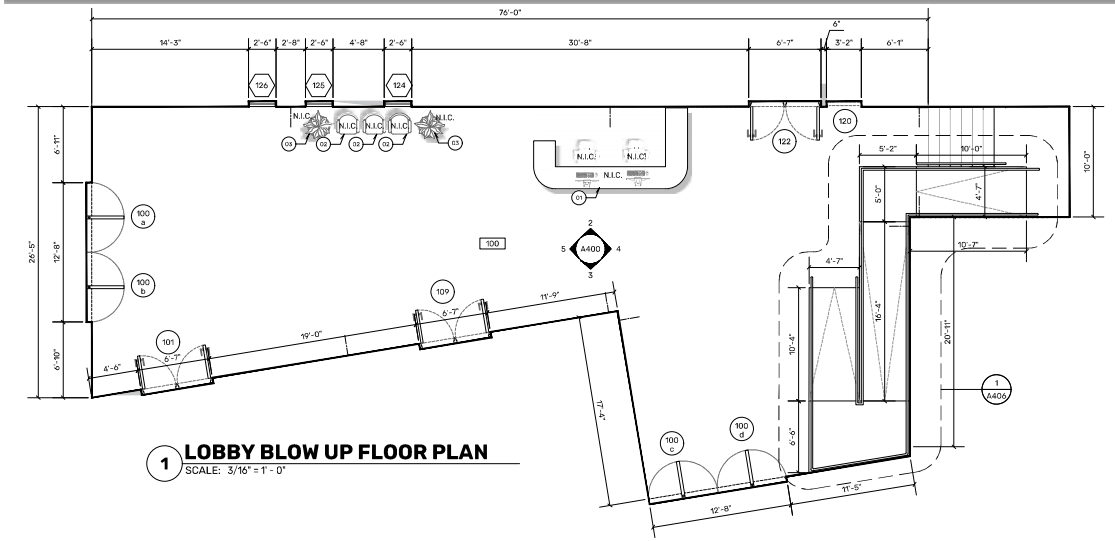
William Meléndez Rivas
Ingeniero
Licenciado
Puerto Rico

FILE

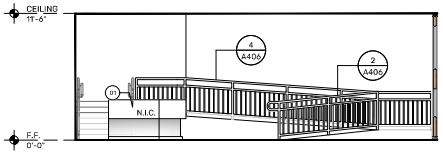
Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
PROPOSED GROUND FLOOR PLAN_OPTION 3

DRAWING No.
A300



1 LOBBY BLOW UP FLOOR PLAN
SCALE: 3/16" = 1' - 0"



4 LOBBY INTERIOR ELEVATION
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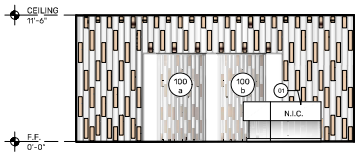
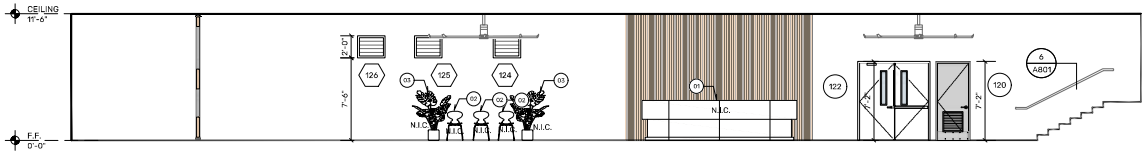


5 LOBBY INTERIOR ELEVATION
SCALE: 3/16" = 1' - 0"

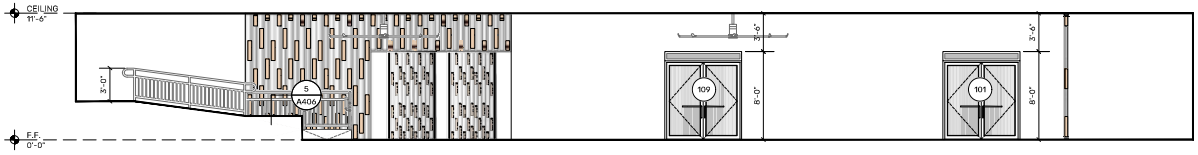


2 LOBBY INTERIOR ELEVATION
SCALE: 3/16" = 1' - 0"

AMENITY SCHEDULE			
NUM.	ITEM	QTY	DESCRIPTION
01	SERVICE COUNTER	1	N.I.C.
02	METAL CHAIRS	3	N.I.C.
03	DECORATION PLANTS	2	N.I.C.
NOTE: N.I.C. = NON IN CONTRACT			

IMPORTANT NOTE:

- ANY SPECIFIED FIXTURES OR FURNITURE MUST BE EQUAL OR SIMILAR AND SHOULDN'T BE BRAND SPECIFIC. FURNITURE AND REMOVABLE EQUIPMENT ILLUSTRATED AND MARKED N.I.C. (NOT IN CONTRACT), WILL NOT BE INCLUDED IN THE BASE BID FOR THE CONSTRUCTION CONTRACT. IT IS PROVIDED AS A DESIGN REFERENCE FOR ELECTRICAL AND MECHANICAL EQUIPMENT COORDINATION ONLY. CONTRACTOR MUST SUBMIT SHOP DRAWINGS OF FIXTURES AND/OR FURNITURE TO BE USED.



3 LOBBY INTERIOR ELEVATION
SCALE: 3/16" = 1' - 0"

PROJECT ADDRESS
ELDERLY SERVICE CENTER
CALLE FERROCARRIL #11 BO. PUEBLO,
LAJAS, P.R. 00667

GPS LATITUDE/LONGITUDE:
18.04941608, -67.05761236

OWNER
LAJAS MUNICIPALITY

REGISTER No.
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REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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CERTIFICATION

I, WILLIAM MELENDEZ RIVAS, LIC. 16,583, CERTIFY THAT I AM THE PROFESSIONAL WHO MADE, DESIGNED OR PREPARED THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 14- 2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY" AND WITH THE [LAW NO. 319 OF MAY 15, 1938, AS AMENDED; ACT NO. 96 OF JULY 6, 1978, AS AMENDED; AS APPLICABLE]. I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY IGNORANCE OR NEGLIGENCE EITHER BY ME, MY AGENTS OR EMPLOYEES OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE OOPC.

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654 Ave. Muñoz Rivera • Suite 1838
654 Plaza, San Juan, PR 00738
tel. (787) 919-4890 / 1891
Email: info@ingeniusgroup

SIGNATURE

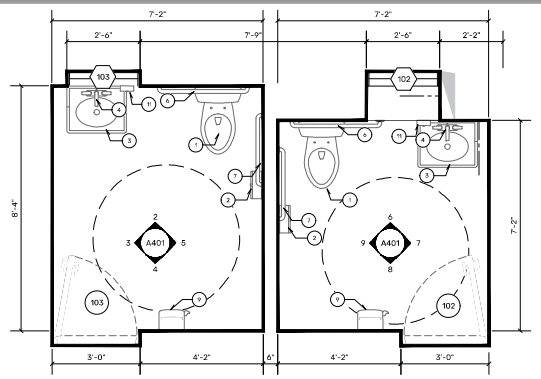
William Meléndez Rivas
Ingeniero
Licenciado
Lic. 16,583 P.E.
Puerto Rico

FILE

Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
LOBBY_BLOW UP

DRAWING No.
A400



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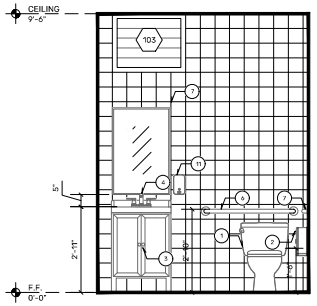
SCALE: 1/2" = 1' - 0"



2 RESTROOM INT. ELEV.
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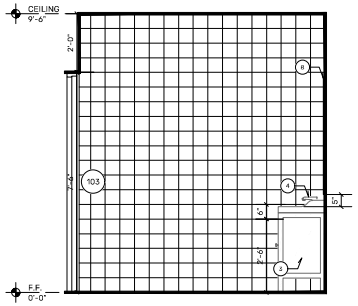
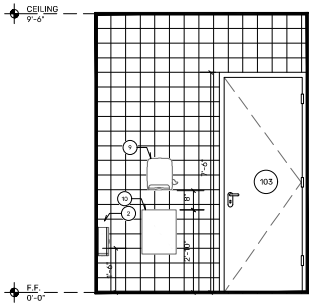
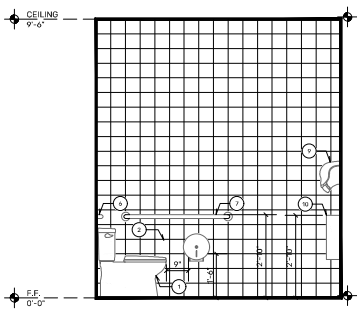


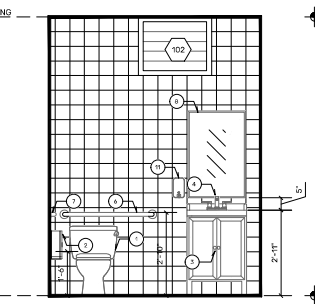
3 RESTROOM INT. ELEV.
SCALE: 1/2" = 1' - 0"



4 RESTROOM INT. ELEV.
SCALE: 1/2" = 1' - 0"



5 RESTROOM INT. ELEV.
SCALE: 1/2" = 1' - 0"



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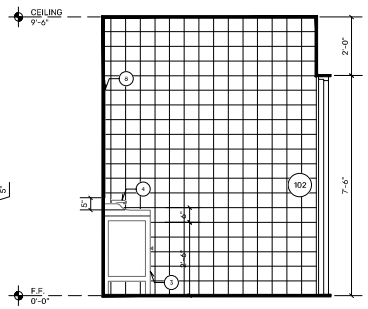
SCALE: 1/2" = 1' - 0"



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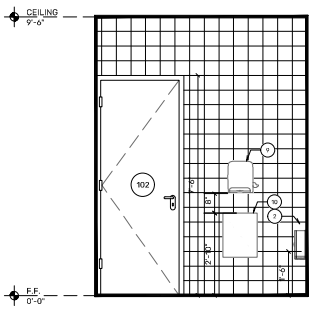
SCALE: 1/2" = 1' - 0"



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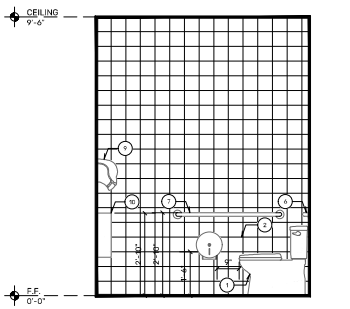
SCALE: 1/2" = 1' - 0"



9 RESTROOM INT. ELEV.
SCALE: 1/2" = 1' - 0"

RESTROOM FIXTURES & ACCESSORIES SCHEDULE

NO.	ITEM	QTY.	MANUFACTURER	MODEL NO.	MATERIAL	COMMENTS
1	FLOOR MOUNTED TOILET	2	KOHLER	K31668-0	CERAMIC/ PORCELAIN	1.28 GPF WHITE
2	TOILET PAPER HOLDER	2	BOBRICK	B-2890	STAINLESS STEEL	SURFACE MOUNTED, JUMBO-ROLL
3	VANITY SINK	2	GLACIER BAY	GB24P2-WH	-	VANITY WITH WASHBASIN-TWO DOORS
4	FAUCET	2	GLACIER BAY	HDQF51A113 0CP	CHROME	IRENA 4IN CENTERSET 2 HANDLE
5	GRAB BAR 18 IN	1	BOBRICK	B5806x18	STAINLESS STEEL	1-1/2" DIAMETER TUBING
6	GRAB BAR 36 IN	1	BOBRICK	B5806x36	STAINLESS STEEL	1-1/2" DIAMETER TUBING
7	GRAB BAR 42 IN	1	BOBRICK	B5806x42	STAINLESS STEEL	1-1/2" DIAMETER TUBING
8	WALL MIRROR	2	RHODES	218070	STAINLESS STEEL	CLASSIC RECTANGLE FRAMED WHITE WALL ACCENT MIRROR
9	PAPER TOWEL DISPENSER	2	SAN JAMAR	SJMT950TBK	BLACK	ELEMENT BLACK LEVER ROLL TOWEL DISPENSER
10	TRASH CAN	2	ALPINE INDUSTRIES	491	STAINLESS STEEL	6 gals. MOUNTED WASTE RECEPTACLE TRASH CAN
11	SOAP DISPENSER	2	BOBRICK	B-2111	STAINLESS STEEL	40-FL OZ. WALL TO PUSH-BUTTON

IMPORTANT NOTE:

- ANY SPECIFIED FIXTURES OR FURNITURE MUST BE EQUAL OR SIMILAR AND SHOULDN'T BE BRAND SPECIFIC. FURNITURE AND REMOVABLE EQUIPMENT ILLUSTRATED AND MARKED N.I.C. (NOT IN CONTRACT), WILL NOT BE INCLUDED IN THE BASE BID FOR THE CONSTRUCTION CONTRACT. IT IS PROVIDED AS A DESIGN REFERENCE FOR ELECTRICAL AND MECHANICAL EQUIPMENT COORDINATION ONLY. CONTRACTOR MUST SUBMIT SHOP DRAWINGS OF FIXTURES AND/OR FURNITURE TO BE USED.

PROJECT ADDRESS
ELDERLY SERVICE CENTER
CALLE FERROCARRIL #11 BO. PUEBLO,
LAJAS, P.R. 00667

GPS LATITUDE/LONGITUDE:
18.04941608, -67.05761236

OWNER
LAJAS MUNICIPALITY

REGISTER No.
358-032-072-01

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
--	--	--	--	--

IMPORTANT NOTES TO THE CONTRACTOR:

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE PROCEEDING WITH WORK. IF ANY DISCREPANCIES, ERRORS OR OMISSIONS SHOULD BE ENCOUNTERED ON PLANS, CONTRACTOR SHALL NOTIFY THE ENGINEER BEFORE ANY PART OF THE WORK IS STARTED SO THAT PROPER CORRECTIONS ARE MADE. IF ENGINEER IS NOT NOTIFIED PRIOR TO COMMENCING OF THE WORK, ALL DESIGNS AND DRAWINGS HEREIN AND PRINTS ISSUED BY THE ENGINEER ARE THE PROPERTY OF THE ENGINEER AND SHALL NOT BE REUSED ON ANY OTHER LOCATION EXCEPT THE ONE FOR WHICH THEY EXPRESSLY DESIGNED. IF THESE DRAWINGS OR ANY PART THEREOF IS REPRODUCED WITHOUT THE CONSENT OF THE ENGINEER, THE PERSON WHO IS DOING WILL BE INSISTED TO THE ENGINEER FOR HIS FULL COMMISSION. CONTRACTOR SHALL NOT USE FOR CONSTRUCTION PURPOSES ANY DRAWINGS THAT WERE ADVANCE TO HIM PRIOR TO THE BEGINNING OF CONSTRUCTION, ALL PLANS BEING USED BY CONTRACTOR SHOULD HAVE A LABEL SAYING "FOR CONSTRUCTION ONLY" SIGNED AND SEALED BY THE ENGINEER.

CERTIFICATION

I, WILLIAM MELENDEZ RIVAS, LIC. 16,668, CERTIFY THAT I AM THE PROFESSIONAL WHO IMADE, DESIGNED OR PREPARED THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 14- 2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY" AND WITH THE [LAW NO. 319 OF MAY 15, 1938, AS AMENDED; ACT NO. 96 OF JULY 5, 1978, AS AMENDED; AS APPLICABLE]. I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY IGNORANCE OR NEGLIGENCE EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION IN THE OOPC.

INGENIUM PROFESSIONAL GROUP
654 Ave. Muñoz Rivera • Suite 1838
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tel. (787) 919-4890 / 1891
Email: info@ingeniusgroup

SIGNATURE

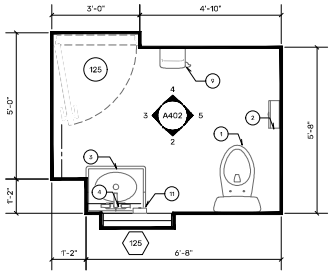
William Meléndez Rivas
Ingeniero Licenciado
Lic. 16,668 P.E.
Puerto Rico

FILE

Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
RESTROOMS [ADMIN AREA]_BLOW UP

DRAWING No.
A401



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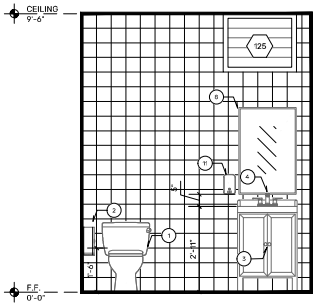
SCALE: 1/2" = 1' - 0"



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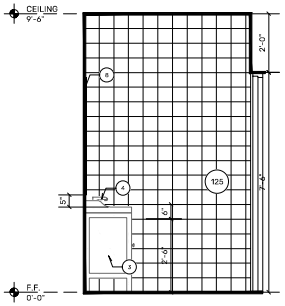
SCALE: 1/2" = 1' - 0"



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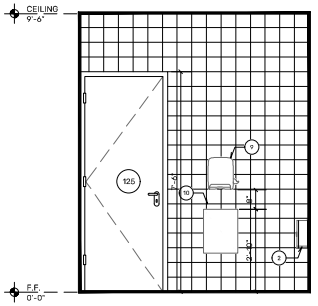
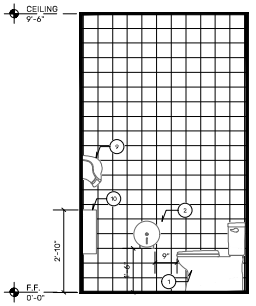
SCALE: 1/2" = 1' - 0"



4 RESTROOM INT. ELEV.
SCALE: 1/2" = 1' - 0"



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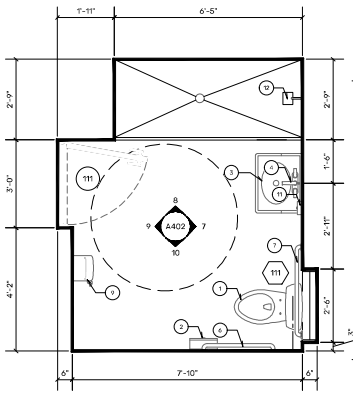
SCALE: 1/2" = 1' - 0"



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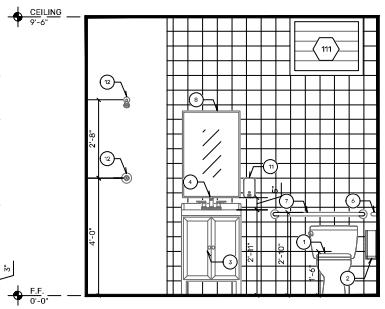
SCALE: 1/2" = 1' - 0"



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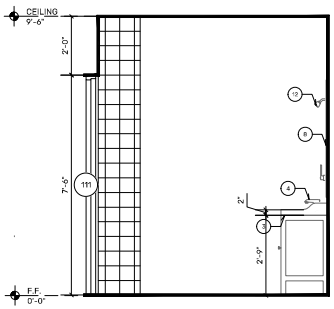
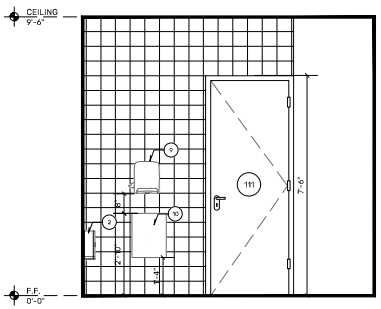
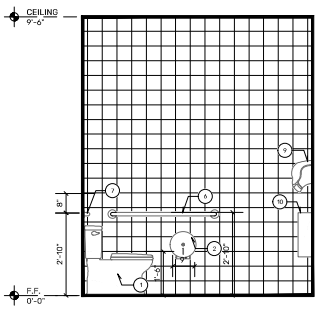


8 RESTROOM INT. ELEV.
SCALE: 1/2" = 1' - 0"



9 RESTROOM INT. ELEV.
SCALE: 1/2" = 1' - 0"



10 RESTROOM INT. ELEV.
SCALE: 1/2" = 1' - 0"

RESTROOM FIXTURES & ACCESSORIES SCHEDULE

NO.	ITEM	QTY.	MANUFACTURER	MODEL NO.	MATERIAL	COMMENTS
1	FLOOR MOUNTED TOILET	2	KOHLER	K31668-0	CERAMIC/ PORCELAIN	1.28 GPF WHITE
2	TOILET PAPER HOLDER	2	BOBRICK	B-2890	STAINLESS STEEL	SURFACE MOUNTED, JUMBO-ROLL
3	VANITY SINK	2	GLACIER BAY	GB24P2-WH	-	VANITY WITH WASHBASIN-TWO DOORS
4	FAUCET	2	GLACIER BAY	HDQF51A1130 CP	CHROME	IRENA 4IN CENTERSET 2 HANDLE
5	GRAB BAR 18 IN	1	BOBRICK	B5806x18	STAINLESS STEEL	1-1/2" DIAMETER TUBING
6	GRAB BAR 36 IN	1	BOBRICK	B5806x36	STAINLESS STEEL	1-1/2" DIAMETER TUBING
7	GRAB BAR 42 IN	1	BOBRICK	B5806x42	STAINLESS STEEL	1-1/2" DIAMETER TUBING
8	WALL MIRROR	2	RHODES	218070	STAINLESS STEEL	CLASSIC RECTANGLE FRAMED WHITE WALL ACCENT MIRROR
9	PAPER TOWEL DISPENSER	2	SAN JAMAR	SJMT950TBK	BLACK	ELEMENT BLACK LEVER ROLL TOWEL DISPENSER
10	TRASH CAN	2	ALPINE INDUSTRIES	491	STAINLESS STEEL	6 gals. MOUNTED WASTE RECEPTACLE TRASH CAN
11	SOAP DISPENSER	2	BOBRICK	B-2111	STAINLESS STEEL	40-FL.OZ. WALL TO PUSH-BUTTON
12	SHOWER FAUCET	1	ARAGON	HD834X-0001	CHROME	VALVE INCLUDED

IMPORTANT NOTE:

- ANY SPECIFIED FIXTURES OR FURNITURE MUST BE EQUAL OR SIMILAR AND SHOULDN'T BE BRAND SPECIFIC. ANY SPECIFIED BRAND IS ONLY FOR CONTRACTOR'S CONVENIENCE AND SHOULDN'T BE INTERPRETED AS THE ONLY CHOICES. CONTRACTOR MUST SUBMIT SHOP DRAWINGS OF FIXTURES AND/OR FURNITURE TO BE USED.

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LAJAS, P.R. 00667

GPS LATITUDE/LONGITUDE:
18.04941608, -67.05761236

OWNER
LAJAS MUNICIPALITY

REGISTER No.
3 5 8 - 0 3 2 - 0 7 2 - 0 1

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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IMPORTANT NOTES TO THE CONTRACTOR:

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CERTIFICATION

I, WILLIAM MELENDEZ RIVAS, LIC. 16,583, CERTIFY THAT I AM THE PROFESSIONAL WHO MADE, DESIGNED OR PREPARED THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 14-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY" AND WITH THE [LAW NO. 319 OF MAY 15, 1938, AS AMENDED; ACT NO. 96 OF JULY 5, 1979, AS AMENDED; AS APPLICABLE. I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY IGNORANCE OR NEGLIGENCE EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE OOPC.

INGENIUM PROFESSIONAL GROUP
654 Ave. Muñoz Rivera • Suite 1838
654 Plaza, San Juan, PR 00738
tel. (787) 919-4890 / 4891
Email: info@ingeniumgroup

SIGNATURE

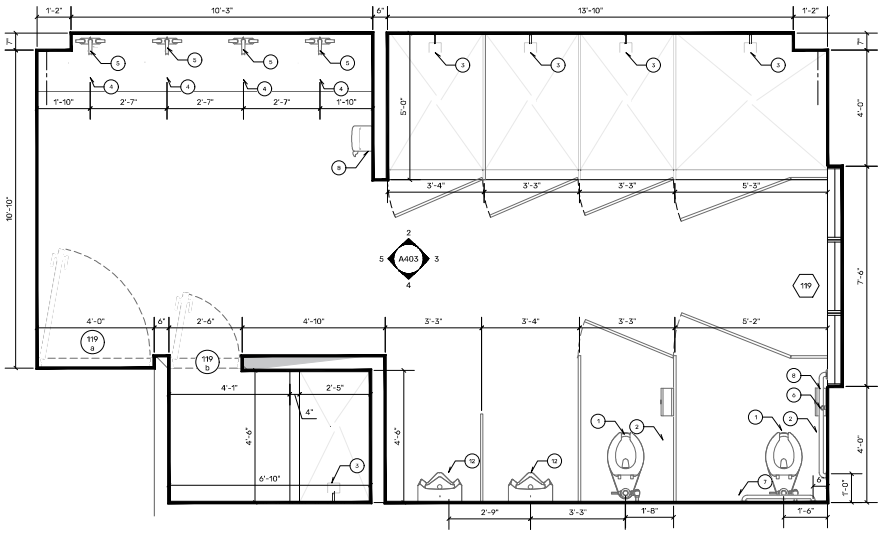
William Meléndez Rivas
Ingeniero Licenciado
Lic. 16,583
Puerto Rico

FILE

Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
RESTROOMS [NURSING & KITCHEN]_BLOW UP

DRAWING No.
A402



1 MEN'S RESTROOM_BLOW UP
SCALE: 1/2" = 1' - 0"

BATHROOM FIXTURES & ACCESSORIES SCHEDULE						
NO.	ITEM	QTY.	MANUFACTURER	MODEL NO.	MATERIAL	COMMENTS
1	FLOOR MOUNTED TOILET [FLUSHOMETER] WITH FLUSH VALVE	2	AMERICAN STANDARD	MADERA	CERAMIC/ PORCELAIN	1.1 GPF, MANUAL FLUSH, WHITE
2	TOILET PAPER HOLDER	2	BOBRICK	B-2890	STAINLESS STEEL	SURFACE MOUNTED, JUMBO-ROLL
3	SHOWER FAUCET	4	ARAGON	HD834X-0001	CHROME	VALVE INCLUDED
4	SINK	4	KOHLER	K-2882-0	CERAMIC/ PORCELAIN	RECTANGLE UNDERMOUNTED SINK - WHITE
5	FAUCET	4	GLACIER BAY	HDQF51A1130CP	CHROME	IRENA 4IN CENTERESET 2 HANDLE
6	GRAB BAR 18 IN	1	BOBRICK	B5806x18	STAINLESS STEEL	1-1/2" DIAMETER TUBING
7	GRAB BAR 36 IN	1	BOBRICK	B5806x36	STAINLESS STEEL	1-1/2" DIAMETER TUBING
8	GRAB BAR 42 IN	1	BOBRICK	B5806x42	STAINLESS STEEL	1-1/2" DIAMETER TUBING
9	TOWEL DISPENSER	1	SAN JAMAR	SJMT950TBK	-	ELEMENT BLACK LEVER ROLL TOWEL DISPENSER
10	TRASH CAN	1	ALPINE INDUSTRIES	491	STAINLESS STEEL	6 gals. MOUNTED WASTE RECEPTACLE
11	SOAP DISPENSER	4	BOBRICK	B-2111	STAINLESS STEEL	40 OZ SURFACE MOUNTED SOAP
12	URINAL	2	AMERICAN STANDARD	6581001.020	CERAMIC/ PORCELAIN	.0125-1.0 GPF, TOP SPUD
13	WALL MIRROR	4	RHODES	218070	-	CLASSIC RECTANGLE FRAMED WHITE WALL-ACCENT MORROR

IMPORTANT NOTE:

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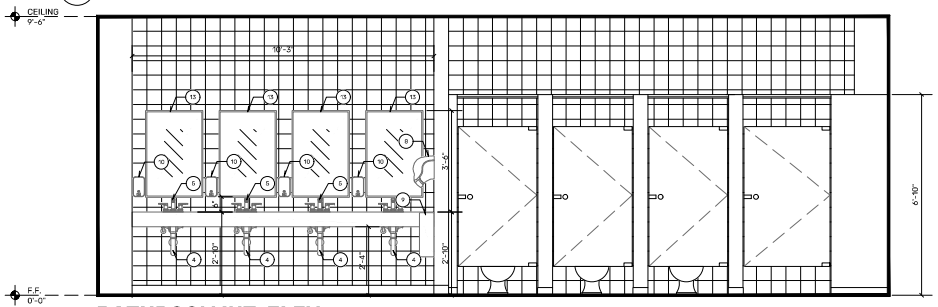
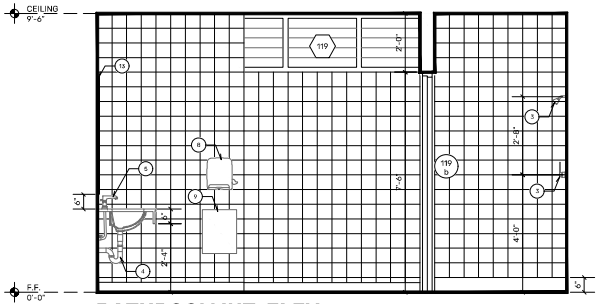
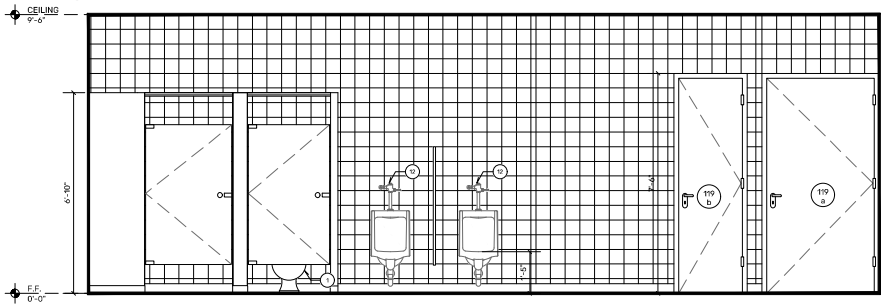


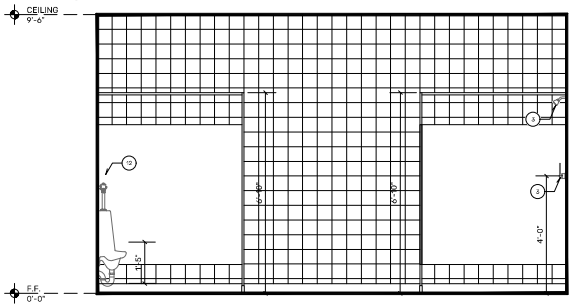
2 BATHROOM INT. ELEV.
SCALE: 1/2" = 1' - 0"



3 BATHROOM INT. ELEV.
SCALE: 1/2" = 1' - 0"



4 BATHROOM INT. ELEV.
SCALE: 1/2" = 1' - 0"



5 BATHROOM INT. ELEV.
SCALE: 1/2" = 1' - 0"

PROJECT ADDRESS
ELDERLY SERVICE CENTER
CALLE FERROCARRIL #11 BO. PUEBLO,
LAJAS, P.R. 00667

GPS LATITUDE/LONGITUDE:
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OWNER
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REGISTER No.
3 5 8 - 0 3 2 - 0 7 2 - 0 1

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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CERTIFICATION

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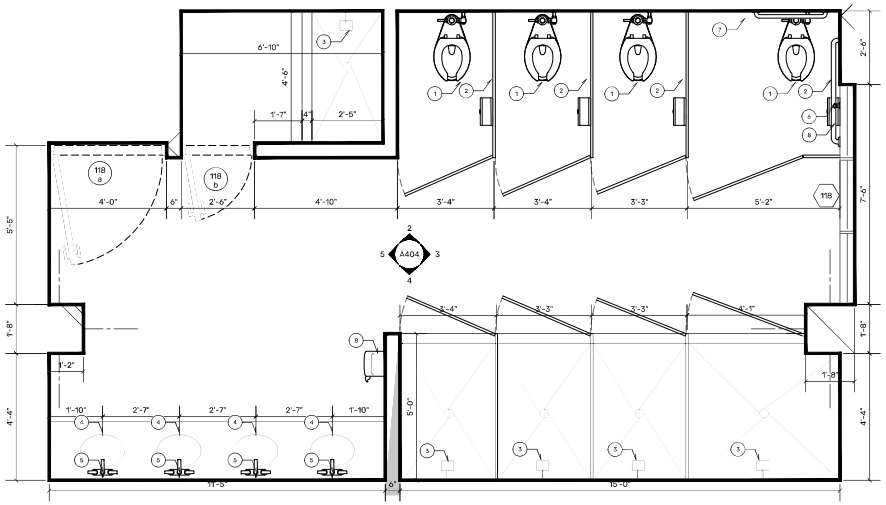
Puerto Rico

FILE

Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
RESTROOMS_BLOW UP

DRAWING No.
A403



1 WOMEN'S RESTROOM INT. ELEV.
SCALE: 1/2" = 1' - 0"

BATHROOM FIXTURES & ACCESSORIES SCHEDULE						
NO.	ITEM	QTY.	MANUFACTURER	MODEL NO.	MATERIAL	COMMENTS
1	FLOOR MOUNTED TOILET [FLUSHOMETER] WITH FLUSH VALVE	4	AMERICAN STANDARD	MADERA	CERAMIC/ PORCELAIN	1.1 GPF, MANUAL FLUSH, WHITE
2	TOILET PAPER HOLDER	4	BOBRICK	B-2890	STAINLESS STEEL	SURFACE MOUNTED, JUMBO-ROLL
3	SHOWER FAUCET	4	ARAGON	HD834X-0001	CHROME	VALVE INCLUDED
4	SINK	4	KOHLER	K-2882-0	CERAMIC/ PORCELAIN	RECTANGLE UNDERMOUNTED SINK - WHITE
5	FAUCET	4	GLACIER BAY	HDQF51A1130 CP	CHROME	IRENA 4IN CENTERESET 2 HANDLE
6	GRAB BAR 18 IN	1	BOBRICK	B5806x18	STAINLESS STEEL	1-1/2" DIAMETER TUBING
7	GRAB BAR 36 IN	1	BOBRICK	B5806x36	STAINLESS STEEL	1-1/2" DIAMETER TUBING
8	GRAB BAR 42 IN	1	BOBRICK	B5806x42	STAINLESS STEEL	1-1/2" DIAMETER TUBING
9	TOWEL DISPENSER	1	SAN JAMAR	SJMT950TBK	-	ELEMENT BLACK LEVER ROLL TOWEL DISPENSER
10	TRASH CAN	1	ALPINE INDUSTRIES	491	STAINLESS STEEL	6 gals. MOUNTED WASTE RECEPTACLE
11	SOAP DISPENSER	4	BOBRICK	B-2111	STAINLESS STEEL	40 OZ SURFACE MOUNTED SOAP
12	WALL MIRROR	4	RHODES	218070	-	CLASSIC RECTANGLE FRAMED WHITE WALL-ACCENT MORROR

IMPORTANT NOTE:

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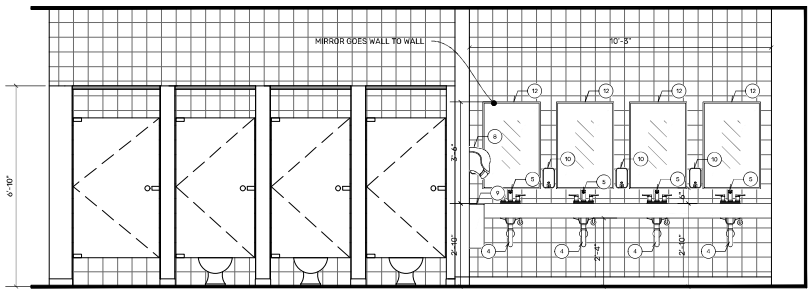
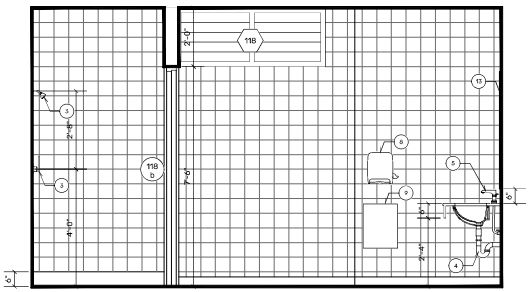
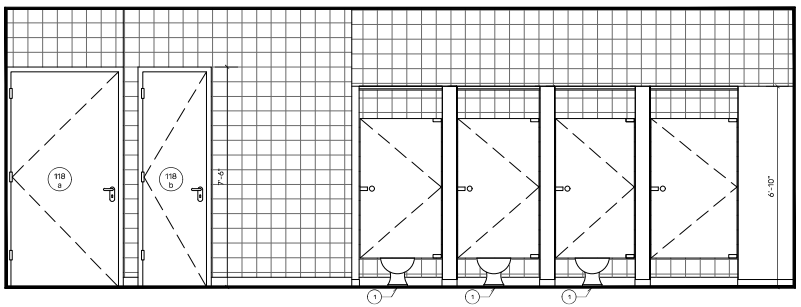


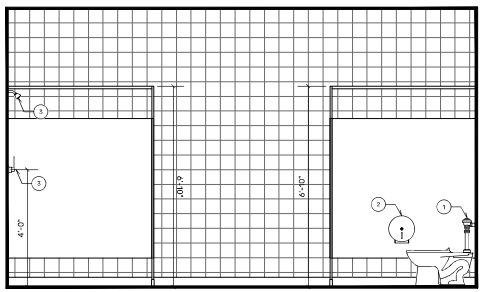
2 BATHROOM INT. ELEV.
SCALE: 1/2" = 1' - 0"



3 BATHROOM INT. ELEV.
SCALE: 1/2" = 1' - 0"



4 BATHROOM INT. ELEV.
SCALE: 1/2" = 1' - 0"



5 BATHROOM INT. ELEV.
SCALE: 1/2" = 1' - 0"

PROJECT ADDRESS
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CALLE FERROCARRIL #11 BO. PUEBLO,
LAJAS, P.R. 00667

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OWNER
LAJAS MUNICIPALITY

REGISTER No.
3 5 8 - 0 3 2 - 0 7 2 - 0 1

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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FILE

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TITLE
RESTROOMS_ BLOW UP

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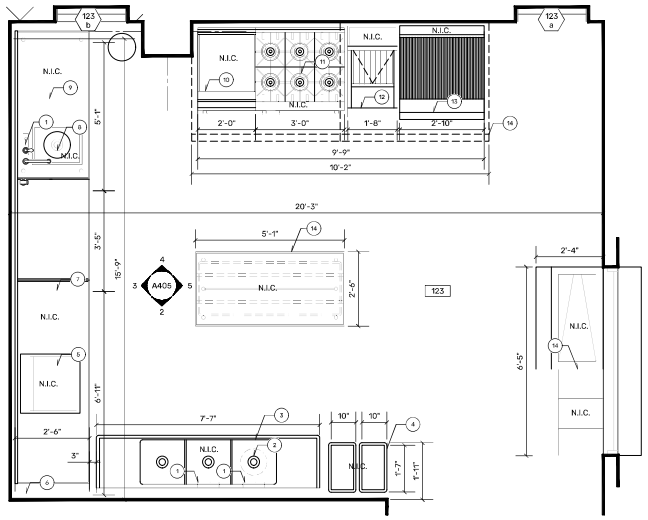
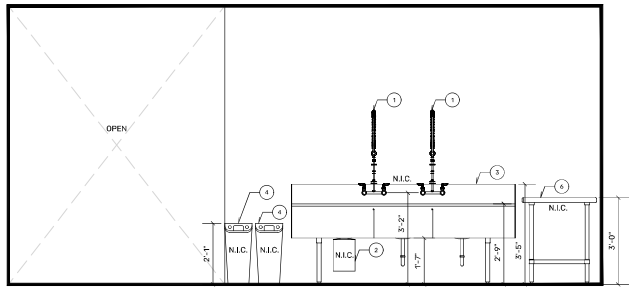
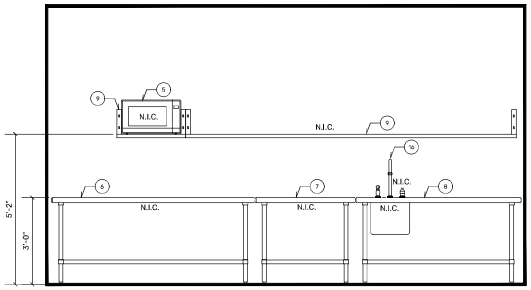
A404



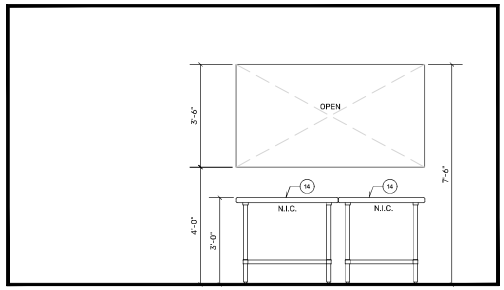
1 KITCHEN INTERIOR BLOW-UP
SCALE: 1/2" = 1' - 0"



2 KITCHEN INTERIOR ELEVATION
SCALE: 1/2" = 1' - 0"



3 KITCHEN INTERIOR ELEVATION
SCALE: 1/2" = 1' - 0"



4 KITCHEN INTERIOR ELEVATION
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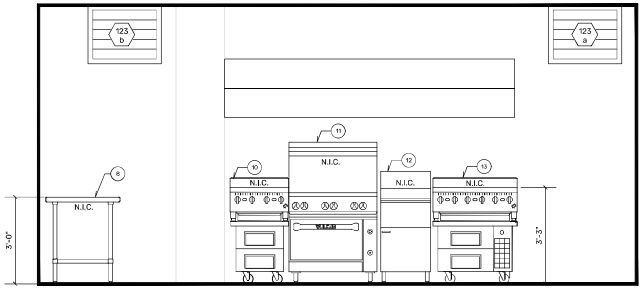
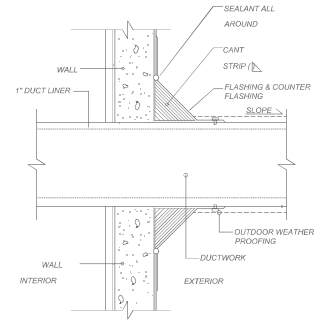


5 KITCHEN INTERIOR ELEVATION
SCALE: 1/2" = 1' - 0"



5 WALL PENETRATION DETAIL
SCALE: NOT TO SCALE

KITCHEN FIXTURES & ACCESSORIES SCHEDULE

NO.	ITEM	QTY.	MANUFACTURER	MODEL NO.	MATERIAL	DESCRIPTION	COMMENTS
1	WALL MOUNTED FAUCET	2	-	600FPRW88LL	CHROME	BRASS CHROME PLATED BODY. CROME PLATED HANLES, 44" LONG FLEXIBLE GOOSENECK HOSE.	
2	FOOD WASTE DISPOSAL	1	-	EVOLUTION EXCEL	STAINLESS STEEL	MULTIGRIND AND SOUNDSEAL TECHNOLOGIES 1.0 HP	
3	THREE COMPARTMENT BUDGET SINKS	1	-	600S31818G	STAINLESS STEEL	STAINLESS STEEL GAUGE 16 WITH GALVANIZED STEEL LEGS	
4	GRAY WALL HUGGER TRASH CAN 23 GALLON	2	-	FG354000 GRAY			PROVIDED BY THE MUNICIPALITY
5	MICROWAVE OVEN	1	AMANA COMMERCIAL	RCS10DSE		MEDIUM VOLUME MICROWAVE 1000 WATTS	PROVIDED BY THE MUNICIPALITY
6	WORK TABLE	1	ADVANCE TABCO	SLAG-305-X	STAINLESS STEEL	16 GAUGE WORK TABLE FLAT TOP WITH UNDERSHELF	PROVIDED BY THE MUNICIPALITY
7	WORK TABLE	1	ADVANCE TABCO	KSLAG-302-X	STAINLESS STEEL	ADVANCE TABCO STAINLESS STEEL 16 GAUGE WORK TABLE WITH 5" BACKSPLASH AND UNDERSHELF	PROVIDED BY THE MUNICIPALITY
8	WORK TABLE WITH SINK	1	ADVANCE TABCO	1097PS61	STAINLESS STEEL	ADVANCE TABCO STAINLESS STEEL 16 GAUGE WORK TABLE WITH SINK AND UNDERSHELF	
9	SMART FABRICATION POT RACK & SHELVES	2	ADVANCE TABCO	TA-228, TA-225, PT-10-60, PT-12-60, SCT-60	STAINLESS STEEL	MID MOUNT SHELVING WITH TUBULAR UPRIGHTS, 10" ADJUSTABLE SHELF, 12" ADJUSTABLE SHELF, 22" POT RACK AND UTENSIL RACK, FOR INSTALLATION ON K21 WORK TABLE, WITH	PROVIDED BY THE MUNICIPALITY
10	GRIDDLE	1			STAINLESS STEEL		PROVIDED BY THE MUNICIPALITY
11	ENDURANCE GAS RESTAURANT RANGE	1	VULCAN	36C-6BN	STAINLESS STEEL	6 OPEN BURNERS / 36" WIDE GAS RANGE, 1 CONVECTION OVEN NATURAL GAS,	PROVIDED BY THE MUNICIPALITY
12	GAS FRIER	1	MANITOWOC	HD60	STAINLESS STEEL	FRYMASTER HD SERIES GAS CRYER 80-LB	PROVIDED BY THE MUNICIPALITY
13	CHAR BOILER	1	MANITOWOC	M36BT	STAINLESS STEEL	GARLAND MASTER SERIES HEAVY DUTY RANGE-MATCH CHAR-BROILER	PROVIDED BY THE MUNICIPALITY
14	DRAWER ASSEMBLY	2	ADVANCE TABCO	ADT-2-2020	STAINLESS STEEL	2 TIER 20"X20"X5" DRAWER ASSEMBLY WITH SIDE PANELS	PROVIDED BY THE MUNICIPALITY
15	SERVER TABLE	2			STAINLESS STEEL		PROVIDED BY THE MUNICIPALITY
16	SINK FAUCET	1			STAINLESS STEEL		

IMPORTANT NOTE:

- FURNITURE AND REMOVABLE EQUIPMENT ILLUSTRATED AND MARKED N.I.C. (NOT IN CONTRACT), WILL NOT BE INCLUDED IN THE BASE BID FOR THE CONSTRUCTION CONTRACT. IT IS PROVIDED AS A DESIGN REFERENCE FOR ELECTRICAL AND MECHANICAL EQUIPMENT COORDINATION ONLY.

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SIGNATURE

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FILE

Dwg Name: INGENIUM GROUP
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Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
KITCHEN_BLOW UP

DRAWING No.
A405

FINISHES SCHEDULE - CRITERIA

FINISHES SCHEDULE

ROOM	DESCRIPTION	FLOOR	WALLS	W/BASE	CEILING
100	LOBBY	FF-0	WF-0	WB-0	CF-0
101	ADMINISTRATIVE RECEPTION	FF-0	WF-0	WB-0	CF-0
102	RESTROOM 1	FF-1	WF-1	WB-0	CF-0
103	RESTROOM 2	FF-1	WF-1	WB-0	CF-0
104	OFFICE_1	FF-0	WF-0	WB-0	CF-0
105	OFFICE_2	FF-0	WF-0	WB-0	CF-0
106	OFFICE_3	FF-0	WF-0	WB-0	CF-0
107	OFFICE_4	FF-0	WF-0	WB-0	CF-0
108	CONFERENCE ROOM	FF-0	WF-0	WB-0	CF-0
109	NURSING RECEPTION	FF-0	WF-0	WB-0	CF-0
110	NURSING AREA	FF-0	WF-0	WB-0	CF-0
111	NURSING BATHROOM	FF-1	WF-1	WB-0	CF-0
112	NURSING STORAGE	FF-0	WF-0	WB-0	CF-0
113	NURSING OFFICE	FF-0	WF-0	WB-0	CF-0
114	ACTIVITY AREA	FF-0	WF-0	WB-0	CF-0
115	TERRACE	FF-0	WF-0	WB-0	CF-0
116	TV ROOM AREA	FF-0	WF-0	WB-0	CF-0
117	ACTIVITIES WORKSHOP	FF-0	WF-0	WB-0	CF-0
118	WOMEN'S BATHROOM	FF-1	WF-1	WB-0	CF-0
119	MEN'S BATHROOM	FF-1	WF-1	WB-0	CF-0
120	LAUNDRY	FF-0	WF-0	WB-0	CF-0
121	STORAGE	FF-0	WF-0	WB-0	CF-0
121a	ELECTRIC ROOM	FF-0	WF-0	WB-0	CF-0
122	LUNCH AREA	FF-0	WF-0	WB-0	CF-0
123	KITCHEN	FF-0	WF-0	WB-0	CF-1
124	UTILITY ROOM	FF-1	WF-0	WB-0	CF-0
125	KITCHEN BATHROOM	FF-1	WF-1	WB-0	CF-0
126	DISPOSABLE STORAGE	FF-0	WF-0	WB-0	CF-0
127	WALK IN FREEZER	FF-0	WF-0	WB-0	CF-0
128	LAVATORY	FF-0	WF-0	WB-0	CF-1
129	CHEMICAL STORAGE	FF-0	WF-0	WB-0	CF-0
130	DRY STORAGE	FF-0	WF-0	WB-0	CF-0
131	KITCHEN OFFICE	FF-0	WF-0	WB-0	CF-0

EXTERIOR FINISHES SCHEDULE

ROOM	DESCRIPTION	FLOOR	WALLS
1	FRONT ELEVATION	FF-0	WF-0/WF-2
2	REAR ELEVATION	FF-0	WF-0
3	RIGHT ELEVATION	FF-0	WF-0
4	LEFT ELEVATION	FF-0	WF-0
5	GAZEBO AREA	FF-2	-

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WALL COMPOSITION SCHEDULE

WALL TYPE	DESCRIPTION
TYPE I	REINFORCED CONCRETE [STRUCTURAL PURPOSE] WALL/COLUMN. FINISH MAY BE EXPOSED OR ELSE. CEMENT PLASTERED INDICATED ON FINISH SCHEDULE ON THIS SHEET. REFER TO SECTIONS AND ELEVATIONS FOR MORE INFORMATION.
TYPE II	PROPOSED 6" REINFORCED CONCRETE MASONRY WALL WITH DUR-O WALL IN EACH COURSE AND VERTICAL REINFORCEMENT BARS #3 @ 16" WITHOUT SPLICE FOR THE FIRST TWO COURSES. CONSIDER CONCRETE REINFORCEMENT COLUMNS AT ALL CONNECTING CORNERS, ENDS, AND AROUND ALL OPENINGS. FOR MORE DETAILS SEE STRUCTURAL SHEETS. FINISHED IN CEMENT PLASTER AND PAINT AS INDICATED IN THE DRAWINGS.
TYPE III	PROPOSED 4" NON-BEARING DRYWALL PARTITION [FOR INTERIOR PURPUSE]. EXTENDS THROUGH CEILING PLANE UP TO BUILDING STRUCTURE. SINGLE SHEETS OF 5/8" THICK TYPE X GYP.BD PANELS FIXED TO 3-1/2" WIDE LIGHTWEIGHT GALV. SHEETMETAL STUDS @ 16" C.C. FIXED TO FLOOR TRACK AND TOP TRACK ONTO STRUCTURAL SLAB.
TYPE IV	PROPOSED 8" REINFORCED CONCRETE MASONRY WALL WITH DUR-O WALL IN EACH COURSE AND VERTICAL REINFORCEMENT BARS #3 @ 16" WITHOUT SPLICE FOR THE FIRST TWO COURSES. CONSIDER CONCRETE REINFORCEMENT COLUMNS AT ALL CONNECTING CORNERS, ENDS, AND AROUND ALL OPENINGS. FOR MORE DETAILS SEE STRUCTURAL SHEETS. FINISHED IN CEMENT PLASTER AND PAINT AS INDICATED IN THE DRAWINGS.

FINISHES CRITERIA

FLOOR FINISHES

FF-0: PROPOSED POLISHED CONCRETE HARDENER. COLOR GRAY.

FF-1: PROPOSED 15"X30" ROCK SPRINGS PEARL PORCELAIN TILE (WITH ANTISLIP SURFACE) IN BATHROOMS. INSTALL WITH MINIMUM JOINT TO COVER WITH GRAY EPOXY GROUT. TILES WILL BE PROVIDED AND INSTALLED BY CONTRACTOR.

FF-2: PROPOSED 12 IN. X 24 IN. CORSO ITALIA, ALPE GRAPHITE. GRAY MATTE PORCELAIN STONE LOOK FOR EXTERIOR FLOOR.

WALL FINISHES

WF-0: PROPOSED INTERIOR CONCRETE CEMENT WALLS. FINISH WITH 1/4" THICK PORTLAND CEMENT PLASTER OVER PROCESED CONCRETE. [PRIME WALL WITH (THORO-BOND) BONDING AGENT. ONCE THE PLASTER IS DRY AND HARD, APPLY TWO-COATS OF PREMIUM LATEX-BASED INTERIOR PAINT OVER PRIMER [PRIMER AND PAINT WILL BE SELECTED BY OWNER AND APPLIED BY GENERAL CONTRACTOR].

WF-1: PROPOSED 15"X30" ROCK SPRINGS PEARL PORCELAIN TILE IN BATHROOMS. INSTALL WITH MINIMUM JOINT TO COVER WITH GRAY EPOXY GROUT. TILES WILL BE PROVIDED AND INSTALLED BY CONTRACTOR.

WF-2: PROPOSED TEXTURE ON WALL. 42 IN. X 12 IN. STACKED STONE DESERT SUNRISE. COMPOSITE FAUX STONE SIDING PANEL. INSTALL WITH MINIMUM JOINT TO COVER WITH GRAY EPOXY GROUT.

WALL BASE

WB-0: PROPOSED WALL BASE'S WILL BE ATTAINED BY CUTTING THE SAME (FF-0, FF-1, FF-3) FLOOR MATERIAL TO PRODUCE 4 IN HEIGHT - WALL BASE STRIPS.

CEILING FINISHES

CF-0: 1/4" - THICK PORTLAND CEMENT PLASTER APPLIED DIRECTLY ON EXPOSED SURFACE OF CONCRETE SLAB. APPLY (THORO-BOND) BONDING AGENT PRIOR TO APPLY FINISH. ONCE THE PLASTER IS DRY AND HARD, APPLY TWO-COATS OF PREMIUM LATEX-BASED INTERIOR PAINT OVER PRIMER BLACK COLOR.

CF-1: NEW PROPOSED 24" X 24" ACOUSTICAL TILE SUSPENDED CEILING. COMPLETE WITH SUPPORTING FRAME ACOUSTIC TILE MUST BE EQUAL TO ARMSTRONG TUNDRA #304/ 9/ 16 WHITE FROM CONTRACTOR'S FURNISHED CATALOG OF READILY AVAILABLE MODELS. ALL TILES SHALL BE. SAG-RESISTANT AND FIRE-RATED.

FINISHES NOTES

1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON SITE
2. THE AREA MARKED WITH A DIAGONAL LINE INDICATES THAT IT DOES NOT REQUIRE SUBSTANTIAL INTERVENTION. IT ONLY REQUIRES RESURFACING AND PAINTING WITH PRIMER AND 2 COATS OF PAINT ON WALLS AND CEILING. THE EXISTING FLOOR SHOULD BE POWER WASHED AND POLISHED.
3. ANY INSTALLATION, PRODUCT AND MATERIAL SPECIFIED UNDER THIS PROJECT AND IDENTIFIED BY A TRADENAME OR TRADEMARK IS INTENDED ONLY IN ORDER TO ESTABLISH THE TYPE AND QUALITY OF THE INSTALLATION. PRODUCT AND MATERIAL CONTRACTOR MAY SUBMIT SUBSTITUTION FOR APPROVAL WHENEVER SUCH INSTALLATION, PRODUCT AND MATERIALS COMPLY WITH TECHNICAL SPECIFICATIONS.
4. ALL ARCHITECTURAL FINISHES AND COLORS SHALL BE APPROVED BY THE ARCHITECT. WHEN REQUIRED IN THE CONTRACT DOCUMENTS, AND WITH PRIOR NOTICE TO THE CONTRACTOR, ANY OF THE ARCHITECTS APPROVAL MAY BE REFEREED TO THE OWNER FOR ADDITIONAL APPROVAL. TIE USED FOR ALL THESE APPROVALS SHALL BE TAKEN ACCOUNTS FOR THE TOTAL CONSTRUCTION OF THE PROJECT.
5. ALL CONCRETE BLOCK SURFACE SHALL BE FINISHED WITH CEMENT PLASTER $\frac{3}{8}$' MINIMUM
6. ALL CONCRETE BLOCK OR GYPSUM BOARD WALL SHALL BE BUILT UP TO 4" ABOVE CEILING MINIMUM, UNLESS OTHERWISE INDICATED.
7. ALL GALVANIZED STEEL GUARDS FALS AND HANCRAWS SHALL BE PRIMED AND PAINTED; COLOR IN SELECTED BY ARCHITECT.
8. THE CONTRACTOR MUST PROVIDE EXPANSION JOINTS FOR THE FLOOR. SUBMIT MODEL TO ARCHITECT FOR APPROVAL.

NOTES FOR PAINTING

1. THE CONTRACTOR SHALL PAINT ALL INTERIOR AND EXTERIOR WALLS WITH THREE COATS OF PAINT OR ACCEPTED SUBSTITUTE SUCH AS TWO COATS OF PAINT WITH PRIMER, COLOR SHALL BE WHITE UNLESS OTHERWISE SPECIFIED OR SELECTED BY THE ARCHITECT.
2. CONTRACTOR SHALL PROVIDE A 5 YEAR WARRANT ON ALL PAINT .
3. THE THREE COATS SYSTEM CONSISTS OF A SEALER PRIMER COAT AND TWO FINISH COATS.
   - 3.1. PRIMER EQUAL OR BETTER THAN INTERIOR LATEX PRIMER PREPRITE 400 B28W400 BY SHERWIN WILLIAMS.
   - 3.2. ACRYLIC LATEX MATTE FINISH EQUAL OR BETTER THAN A-100 SERIES BY SHERWIN WILLIAMS FOR THE EXTERIOR.
   - 3.3. ACRYLIC LATEX EGG SHELL FINISH EQUAL OR BETTER THAN PROMAR-400 SERIES BY SHERWIN WILLIAMS FOR THE INTERIOR.
   - 3.4. WATERBASED EPOXY COATING BY SHERWIN WILLIAMS FOR THE BATHROOMS.
4. PAINT SHALL BE EQUAL OR SIMILAR APPROVED TO PRODUCT SPECIFIED BY ARCHITECT AND IN COMPLIANCE WITH PAINT TECHNICAL SPECIFICATION SECTION
5. ALL EXTERIOR WALL SURFACE SHALL BE PAINT AND RETOUCHED AS NECESSARY, AFTER COMPLETION OF CONSTRUCTION WORK
6. CONTRACTOR SHALL REPAIR DAMAGED CONCRETE BEFORE PAINTING.
7. DOOR PAINT SYSTEM CONSISTS OF ONE COAT OF PRIMER AND TWO FINISH COATS.
   - 7.1. PRIMER EQUAL OR BETTER THAN ALL SURFACE ENAMEL OIL PRIMER A11 SERIES BY SHERWIN WILLIAMS.
   - 7.2. ALL SURFACE ENAMEL OIL PAINT A11 SERIES BY SHERWIN WILLIAMS.
8. CONTRACTOR SHALL PROVIDE AND INSTALL IDENTIFICATION SIGNS FOR ALL SPACES.

WATER PROOFING

1. WARRANTY FOR THE WATERPROOFING TREATMENT SHALL BE A 5 YEARS IN ADDITION TO REGULAR MANUFACTURER AND INSTALLER WARRANTIES.
2. ALL DEMOLITION AND CONSTRUCTION WORK SHALL BE COORDINATED WITH THE OWNER TO PREVENT POSSIBLE CONFLICTS WITH THE OWNER'S NORMAL WORKING CONDITIONS.
3. THE CONTRACTOR SHALL APPLY A SYSTEM EQUAL OR SUPERIOR TO THE ONE SPECIFIED. PROPOSED PRODUCTS SHALL HAVE EQUAL OR BETTER CHARACTERISTICS THAN THE ONE SPECIFIED. PRODUCTS WITH CHARACTERISTICS LESS THAN THE ONE SPECIFIED WILL NOT BE ACCEPTED FOR THIS PROJECT.
4. CONTRACTOR SHALL PROVIDE, USE, AND/OR INSTALL ANY COMPONENT OR PRODUCT FOR THE REQUIRED SYSTEM, NOT SPECIFIED BUT NECESSARY FOR THE PROPER INSTALLATION OF THE WATERPROOFING SYSTEM.
5. WORK SHALL BE VERIFY AND CERTIFIED BY A QUALIFIED REPRESENTATIVE FROM THE MANUFACTURER OF THE WATERPROOFING SYSTEM.
6. CONTRACTOR SHALL VISIT THE PROJECT SITE TO BECOME FAMILIAR WITH THE REQUIRED WORK AND SHALL VERIFY ACTUAL DIMENSIONS AND CONDITIONS TO CONSIDER ANY DIFFICULTIES AND COST IN BASE BID.
7. WORK SHALL BE PERFORMED BY PERSONNEL SKILLED IN THIS TRADE AND WITH THE BEST PRACTICE OF THE TRADE.

ROOF SCOPE OF WORK

1. THE WATERPROOFING SYSTEM CONSISTS OF:
   A) PRESSURE WASH CLEAN ALL ROOF AREAS.
   B)INSTALL ONE PLY WHITE ALUMINUM SBS MODIFIED BITUMEN TOP MEMBRANE SIMILAR TO GLASDAN AL80 PEARL WHITE.
2. INSTALL CAP FLASHINGS AT ALL PARAPETS FOLLOWING MANUFACTURER,S RECOMENDATIONS SEE TYP. DETAIL ON SHEET A103
3. INSTALL CHEM CURBS TO ANY TUBING THAT PASSES THROUGH THE WATERPROOFING SYSTEM.

PROJECT ADDRESS
ELDERLY SERVICE CENTER
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18.04941608, -67.0576236

OWNER
LAJAS MUNICIPALITY

REGISTER No.
358-032-072-01

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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IMPORTANT NOTES TO THE CONTRACTOR:
CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE PROCEEDING WITH WORK. IF ANY DISCREPANCIES, ERRORS OR OMISSIONS SHOULD BE ENCOUNTERED ON PLANS, CONTRACTOR SHALL NOTIFY THE ENGINEER BEFORE ANY PART OF THE WORK IS STARTED SO THAT PROPER CORRECTIONS CAN BE MADE. DO NOT SCALE NOTHING FROM DRAWINGS. DO NOT RELY ON NOTES, DIMENSIONS, DETAILS AND PRINTS ISSUED BY THE ENGINEER ARE THE PROPERTY OF THE ENGINEER AND SHALL NOT BE REUSED ON ANY OTHER LOCATION EXCEPT THE ONE FOR WHICH THEY EXPRESSLY DESIGNED. IF THESE DRAWINGS OR ANY PART THEREOF IS REPRODUCED WITHOUT THE CONSENT OF THE ENGINEER, THE PERSON WHO IS DOING WILL BE RECIFFED TO THE ENGINEER FOR HIS FULL COMMISSION. CONTRACTOR SHALL NOT USE FOR CONSTRUCTION PURPOSES ANY DRAWINGS THAT WERE ADVANCE TO HIM PRIOR TO THE ISSUANCE OF CONSTRUCTION PLANS. ALL PLANS SHALL BEAR BY CONTRACTOR, SHOULD WHAT A CARD SAYING "FOR CONSTRUCTION ONLY" DATED AND SEALED BY THE ENGINEER.

CERTIFICATION
I, WILLIAM MELENDEZ RIVAS, LIC. 16383, CERTIFY THAT I AM THE PROFESSIONAL WHO TRACK, DESIGNED OR PREPARED THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 9-1934, AS AMENDED, KNOWN AS THE LAW REGULATING THE PRACTICE OF ENGINEERY AND WITH THE LAW NO. 179 OF MAY 16, 1938, AS AMENDED; ACT NO. 76 OF JULY 6, 1978, AS AMENDED, AS APPLICABLE.) I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY IGNORANCE OF NEGLIGENCE EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE DGPE.

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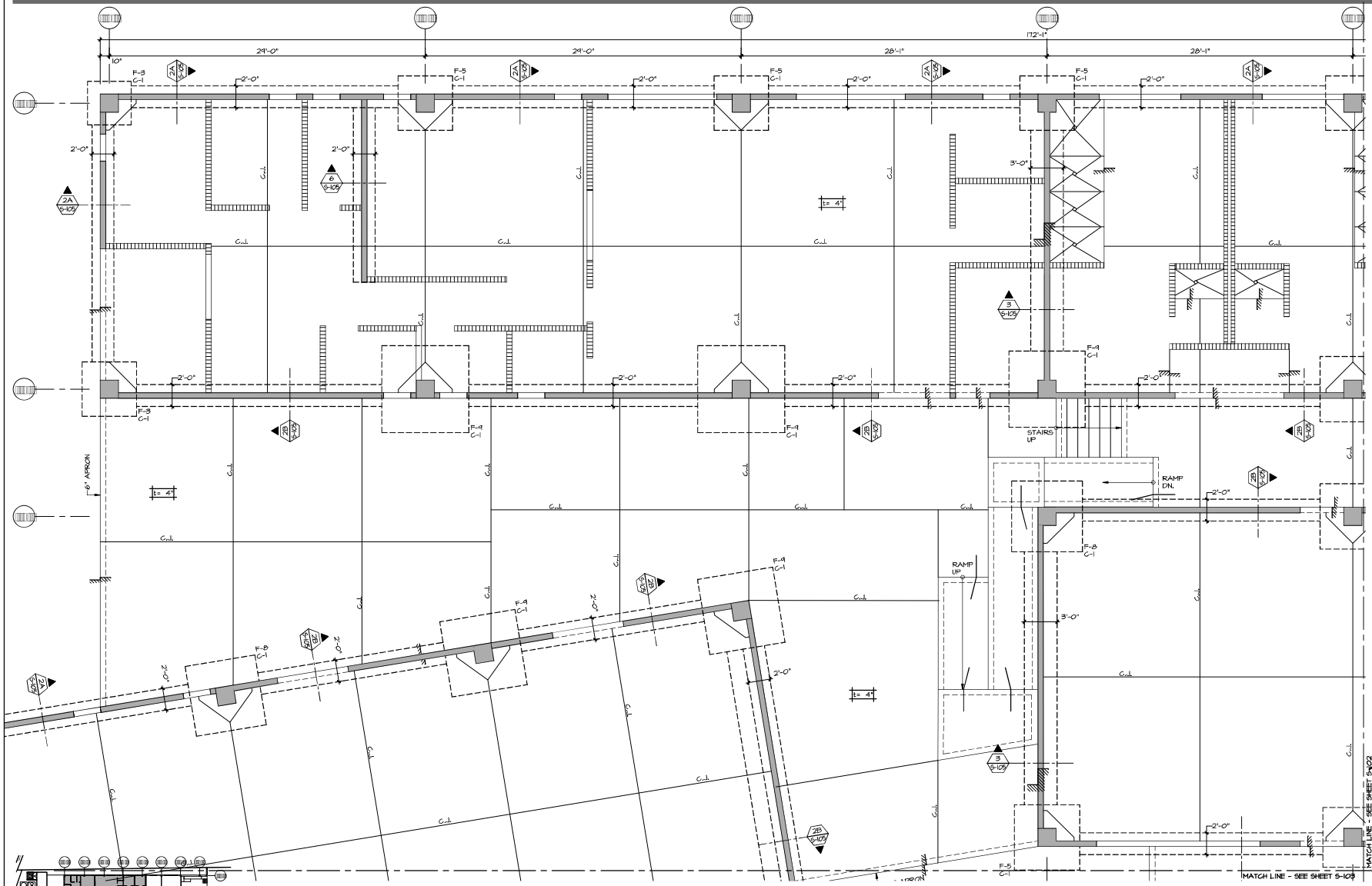
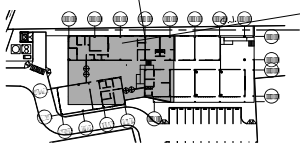
Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
FINISHES SCHEDULE

DRAWING No.
A500

PAGE: 28/39





KEY PLAN

PARTIAL FOUNDATION PLAN

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

PROJECT ADDRESS

ELDERLY SERVICE CENTER
CALLE FERROCARRIL #11 BO.
PUEBLO, LAJAS, P.R. 00667

GPS LATITUDE/LONGITUDE:
18.04941608, -67.05761236

OWNER

LAJAS MUNICIPALITY

REGISTER No.

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REVISIONS

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FILE

Dwg Name: INGENIUM GROUP

Drawn by: K.Y.P.

Revised by: A.S.D.

Plot Scale: AS SHOWN

Progress Print:

TITLE

PARTIAL FOUNDATION PLAN & KEY PLAN

DRAWING No.

S-101

PAGE: 001 52

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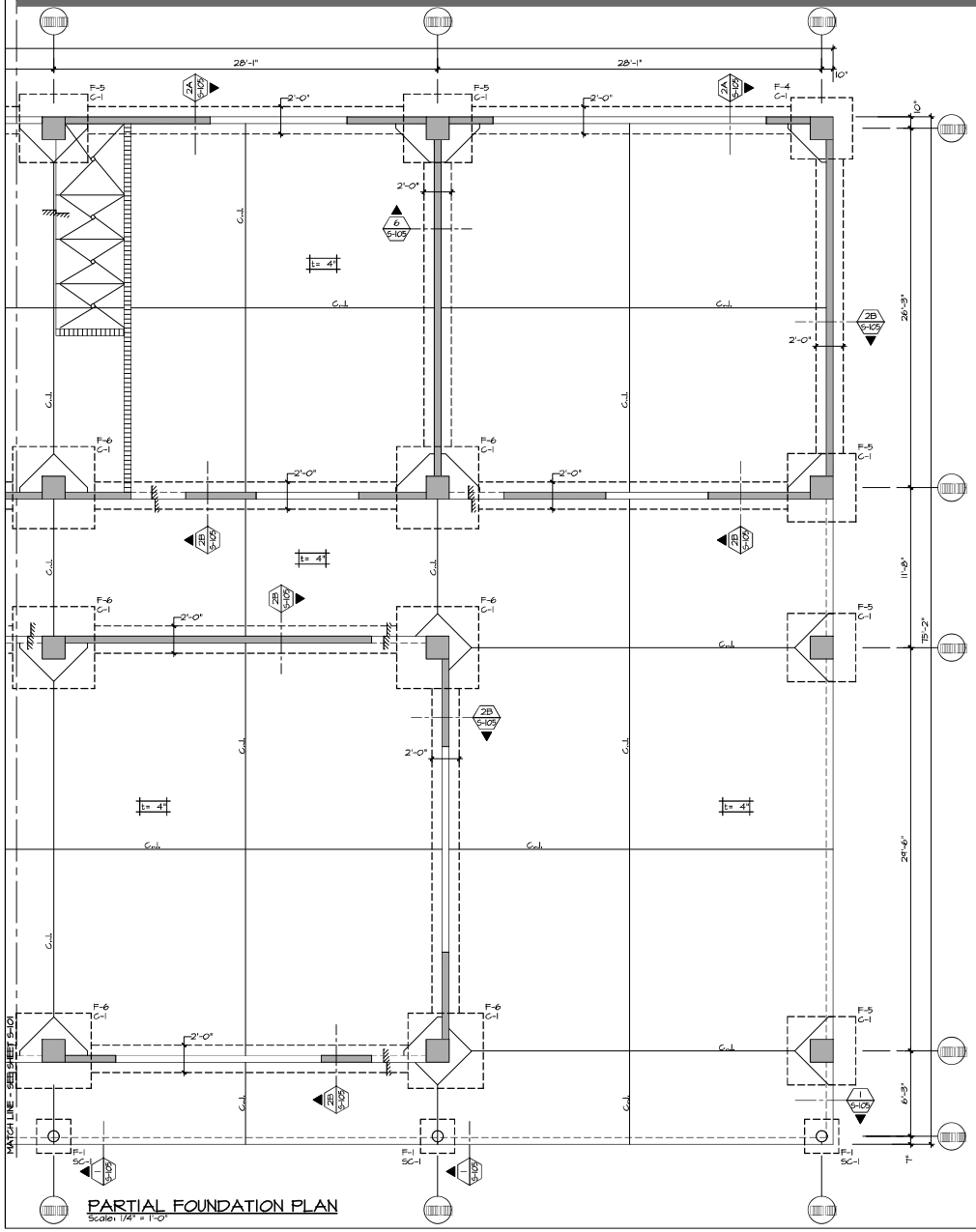
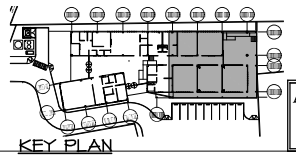
PROJECTS: 23-07
DATE: 11-13-2024



PARTIAL FOUNDATION PLAN
Scale: 1/4" = 1'-0"

LEGEND:

- CONC. WALL OR COL. ABOVE & BELOW
- CONC. WALL OR COL. BELOW ONLY
- CONC. WALL OR COL. ABOVE ONLY
- MASONRY WALL
- MASONRY WALL BELOW



KEY PLAN

PROJECT ADDRESS
ELDERLY SERVICE CENTER
CALLE FERROCARRIL #11 BO.
PUEBLO, LAJAS, P.R. 00667

GPS LATITUDE/LONGITUDE:
18.04941608, -67.05761236

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FILE
Dwg Name: INGENIUM GROUP
Drawn by: K.Y.P.
Revised by: A.S.D.
Plot Scale: AS SHOWN
Progress Print:

TITLE
PARTIAL FOUNDATION PLAN
LEGEND & KEY PLAN

ASD
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PROJECTS: 23-07

DATE: 11-13-2024

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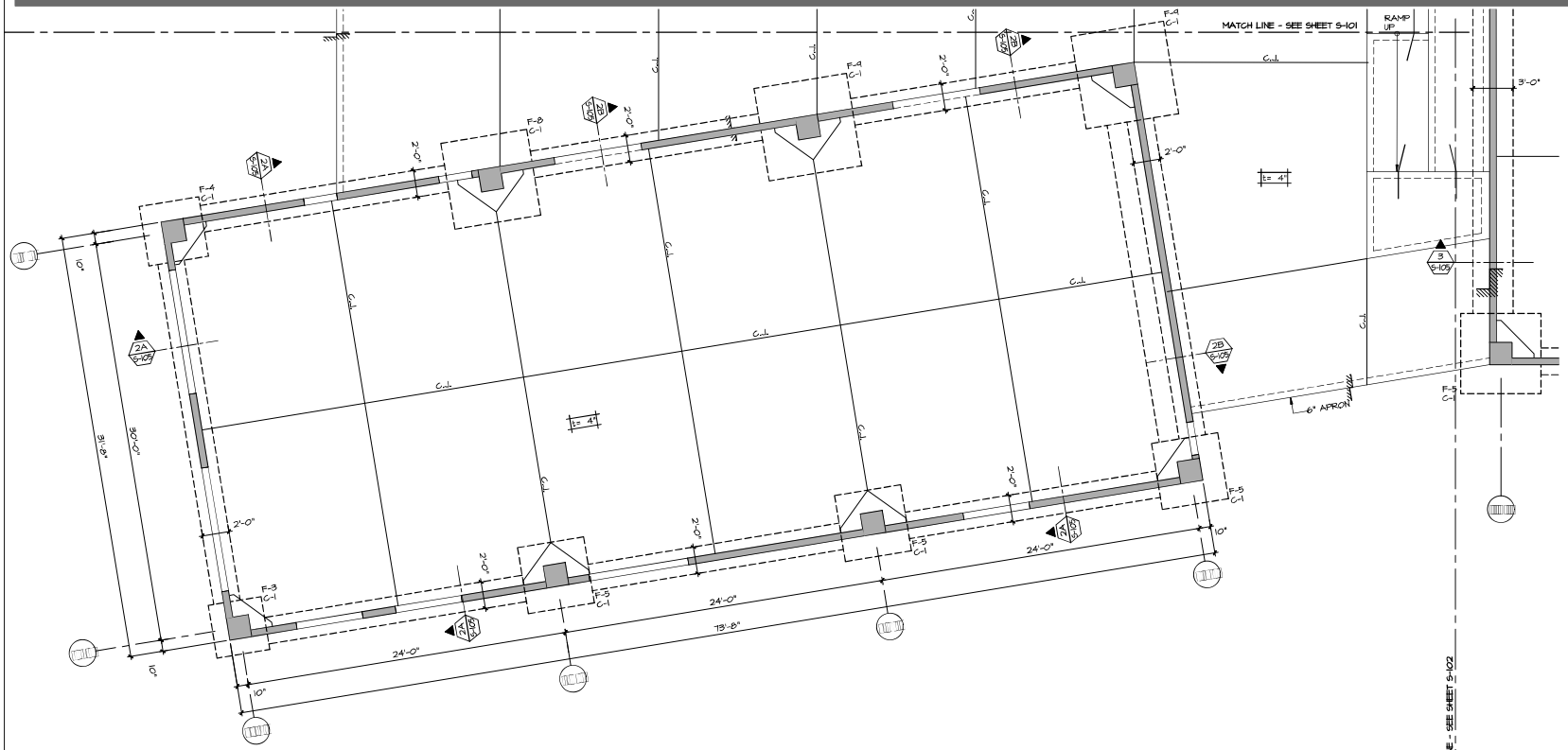
S-102

PAGE: 001 52



PARTIAL FOUNDATION PLAN

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

PROJECT ADDRESS

ELDERLY SERVICE CENTER
CALLE FERROCARRIL #11 BO. PUEBLO, LAJAS, P.R. 00667

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SPECIFICATIONS

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FILE

Dwg Name: INGENIUM GROUP

Drawn by: K.Y.P.

Revised by: A.S.D.

Plot Scale: AS SHOWN

Progress Print:

TITLE

PARTIAL FOUNDATION PLAN & KEY PLAN

DRAWING No.

S-103

PAGE: 001 52

ASD
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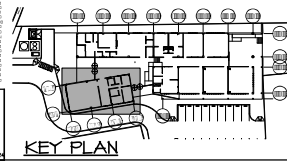
PROJECTS: 23-07
DATE: 11-13-2024

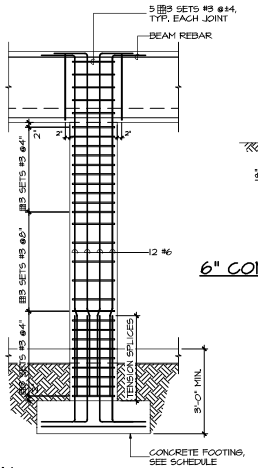


SQUARE FOOTING REINFORCEMENT SCHEDULE

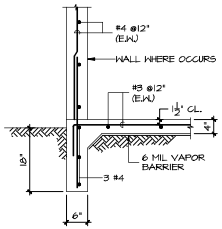
FOOTING MK'D	A x A	T	REINF. # T (B, E.W.)
F-1	2'-6" x 2'-6"	12"	4 #4
F-2	3'-0" x 3'-0"	12"	4 #4
F-3	4'-0" x 4'-0"	12"	5 #4
F-4	4'-6" x 4'-6"	13"	6 #4
F-5	5'-0" x 5'-0"	13"	7 #4
F-6	5'-6"x 5'-6"	14"	6 #5
F-7	6'-0" x 6'-0"	15"	7 #5
F-8	6'-6" x 6'-6"	16"	8 #5
F-9	7'-0" x 7'-0"	18"	9 #5

TENSION SPLICES

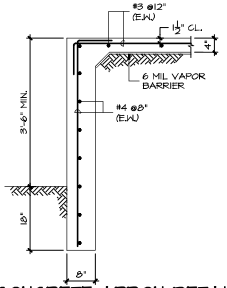
BAR	f'c = 3,0 ksi	f'c = 4,0 ksi	f'c = 5,0 ksi
	LENGHT	LENGHT	LENGHT
#3	24"	22"	20"
#4	34"	28"	26"
#5	42"	36"	32"
#6	50"	42"	38"
#7	58"	50"	44"
#8	66"	58"	52"
#9	74"	66"	58"
#10	82"	74"	64"
#11	90"	80"	70"



TYPICAL CONCRETE COLUMN ELEVATION



6" CONCRETE APRON DETAIL



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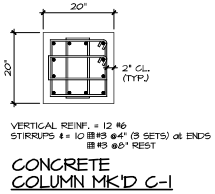

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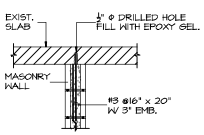
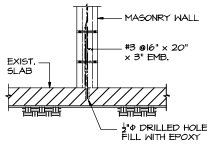


TYP. MASONRY WALL CONN. TO EXISTING SLAB



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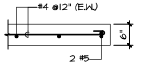

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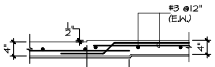

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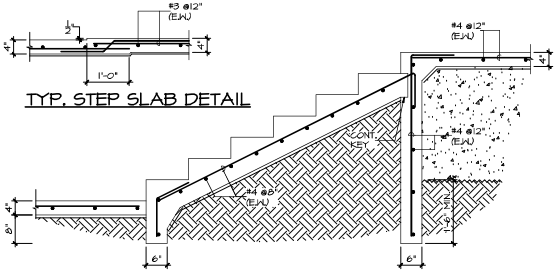

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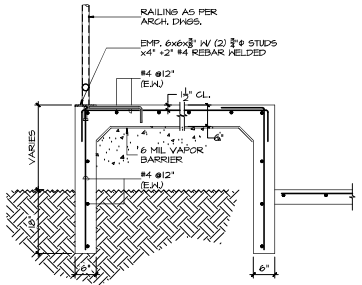

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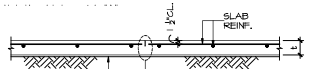
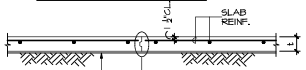
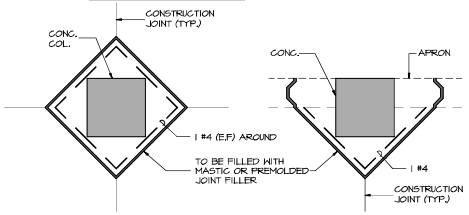


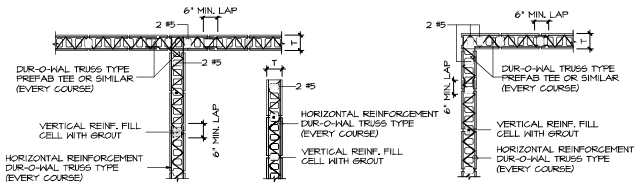
SAW-CUT CONTROL JOINT DETAIL (S.C.J.)



SLAB CONSTRUCTION JOINT DETAIL (C.J.)



TYPICAL ISOLATION JOINT DETAIL



TYPICAL CONC. BLOCK WALL REINFORCEMENT DETAILS

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. 3,000 psf @ 3'-0" below Existing Grade as per soil report prepared for this project by Almonte & Asociados, LLC Drilling Contractor, dated May 4, 2023. 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. ⅕ the narrowest dimensions between sides of forms nor,
   b. ⅓ 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 (f_y=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. Four 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 splices; 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.)
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.
4"	#3 @16" or #4 @32"	Dur-O-Wal STD E.O. Course
6"	#3 @16" or #4 @32"	Dur-O-Wal STD 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) Storage 125 psf
2. Wind Loads
   a) As per ANSI/ASCE 7-2016
3. Seismic Loads
   a) As per IBC-2018

F. Applicable Codes

1. ACI 318-2016
2. IBC-2018
3. ANSI/ASCE 7-2016

PROJECT ADDRESS
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CALLE FERROCARRIL #11 BO.
PUEBLO, LAJAS, P.R. 00667

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18.04941608, -67.05761236

OWNER
LAJAS MUNICIPALITY

REGISTER No.
358-032-072-01

REVISIONS

REV.	DATE	DESCRIPTION	BY CHK'D
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IMPORTANT NOTES TO THE CONTRACTORS

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE PROCEEDING WITH WORK. IF ANY DISCREPANCIES, ERRORS OR OMISSIONS SHOULD BE ENCOUNTERED ON PLANS, CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY BEFORE ANY WORK IS STARTED SO THAT PROPER CORRECTIONS ARE MADE. IF ENGINEER IS NOT NOTIFIED PRIOR TO COMMENCING OF THE WORK, ALL DESIGNS AND DRAWINGS HEREIN AND PRINTS ISSUED BY THE ENGINEER ARE THE PROPERTY OF THE ENGINEER AND SHALL NOT BE REUSED ON ANY OTHER LOCATION EXCEPT THE ONE FOR WHICH THEY EXPRESSLY DESIGNED. IF THESE DRAWINGS OR ANY PART THEREOF IS REPRODUCED WITHOUT THE CONSENT OF THE ENGINEER, THE PERSON WHO IS DOING WILL BE INDEBTED TO THE ENGINEER FOR HIS FULL COMMISSION. CONTRACTOR SHALL NOT USE FOR CONSTRUCTION PURPOSES ANY DRAWINGS THAT WERE ADVANCE TO HIM PRIOR TO THE BEGINNING OF CONSTRUCTION. ALL PLANS WITH SEAL BY CONTRACTOR SHOULD HAVE A LABEL SAYING "FOR CONSTRUCTION ONLY SIGNED AND SEALED BY THE ENGINEER.

I, WILLIAM MELENDEZ RIVAS, LIC. 16383, CERTIFY THAT I AM THE PROFESSIONAL WHO [MADE, DESIGNED OR PREPARED] THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE CONSTRUCTION WHICH I SUPERVISE AND INSPECTIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 14-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY" AND WITH THE [LAW NO. 319 OF MAY 15, 1938, AS AMENDED; ACT NO. 68 OF JULY 6, 1978, AS AMENDED; AS APPLICABLE] I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY ANYONE OR NEGLIGENCE EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE OSPE.

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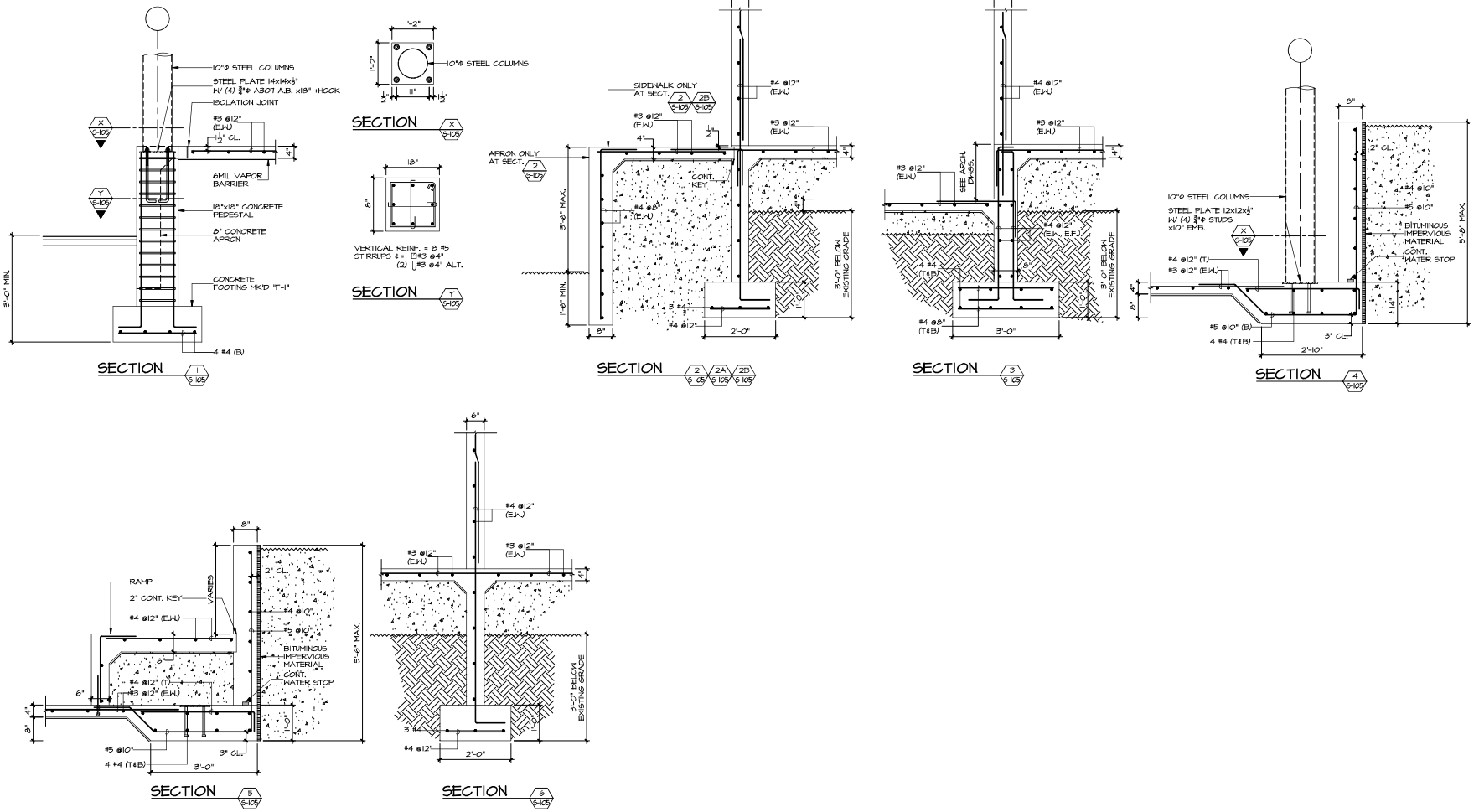
FILE
Dwg Name: INGENIUM GROUP
Drawn by: K.Y.P.
Revised by: A.S.D.
Plot Scale: AS SHOWN
Progress Print:

TITLE
STRUCTURAL NOTES, SECTIONS & DETAILS

DRAWING No.
S-104
PAGE: 001 52

ASD
ANIBAL SALGADO DIAZ, MSCE, P.E.
STRUCTURAL ENGINEER
DATE: 11-13-2024



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ENGINEER

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SIGNATURE

FILE

Dwg Name: INGENIUM GROUP

Drawn by: K.Y.P.

Revised by: A.S.D.

Plot Scale: AS SHOWN

Progress Print:

TITLE

SECTIONS

DRAWING No.

S-105

PAGE: 001 52

ASD
ANIBAL SALGADO DIAZ, MSCE, P.E.
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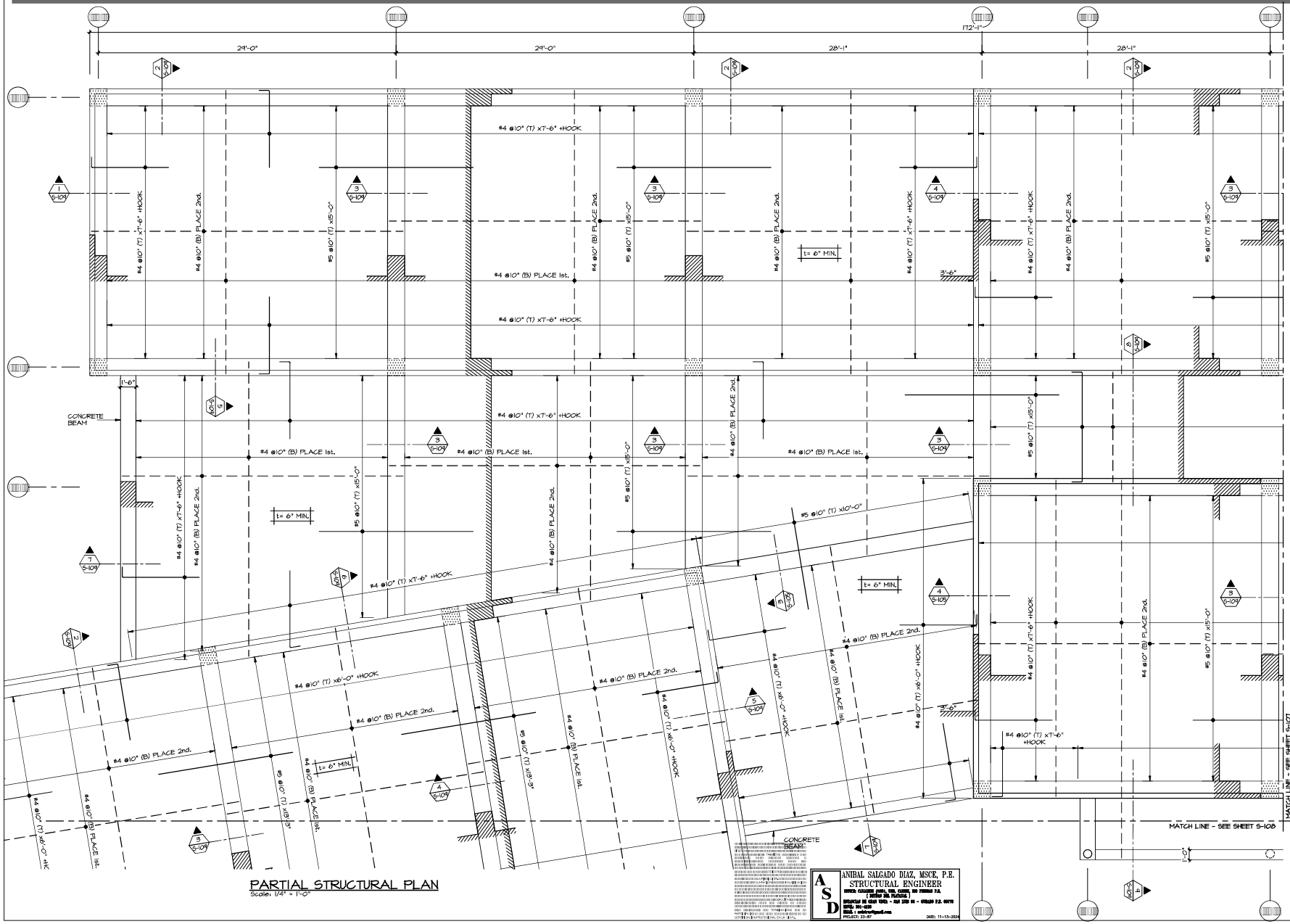
PROJECTS: 22-07

DATE: 11-13-2024



PARTIAL STRUCTURAL PLAN

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

ANIBAL SALGADO DIAZ, MSCE, P.E.
STRUCTURAL ENGINEER

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FILE
Dwg Name: INGENIUM GROUP
Drawn by: K.Y.P.
Revised by: A.S.D.
Plot Scale: AS SHOWN
Progress Print:

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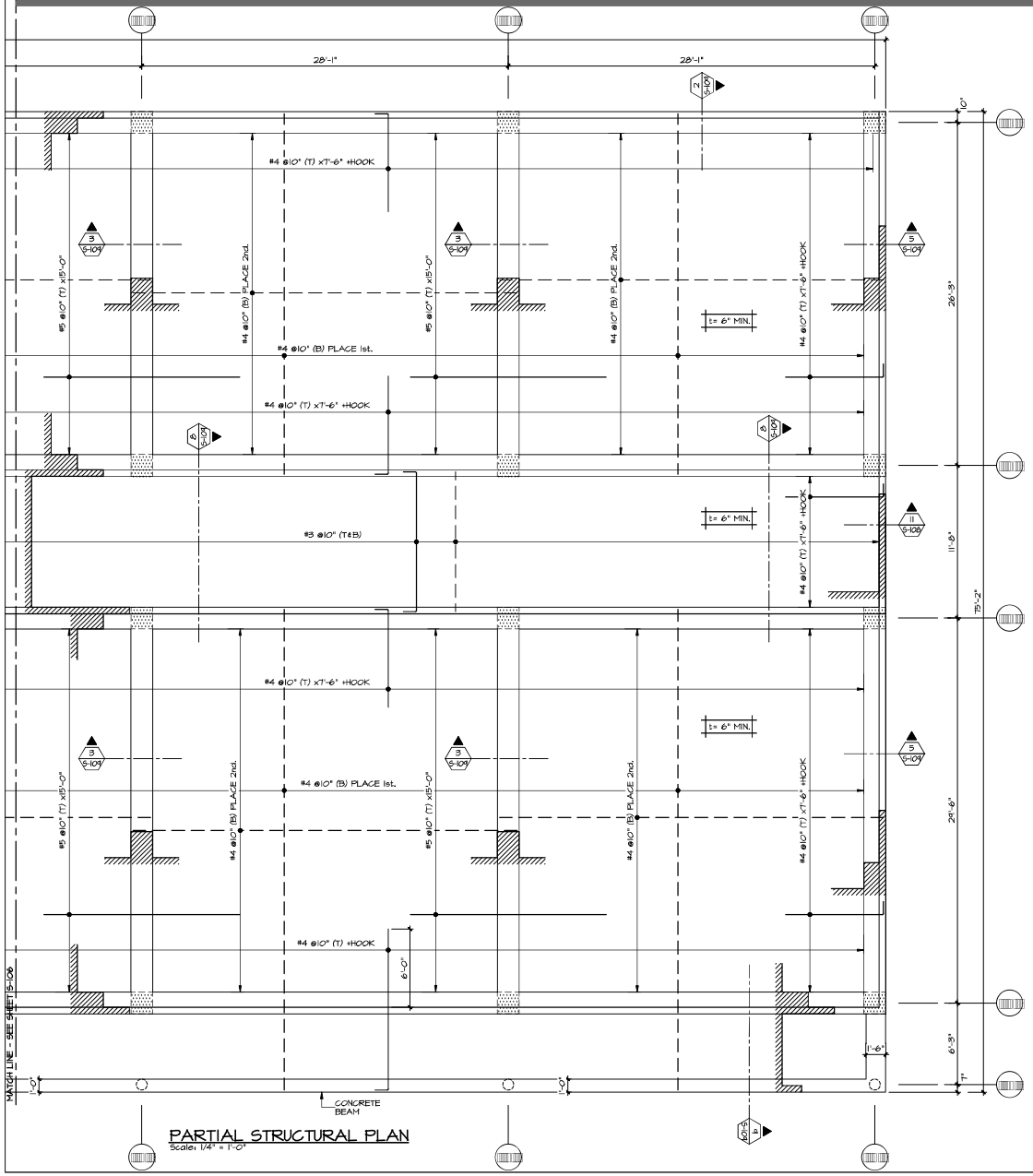
DRAWING No.
S-106

PAGE: 001 52



PARTIAL STRUCTURAL PLAN

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FILE

Dwg Name: INGENIUM GROUP

Drawn by: K.Y.P.

Revised by: A.S.D.

Plot Scale: AS SHOWN

Progress Print:

TITLE

PARTIAL STRUCTURAL PLAN

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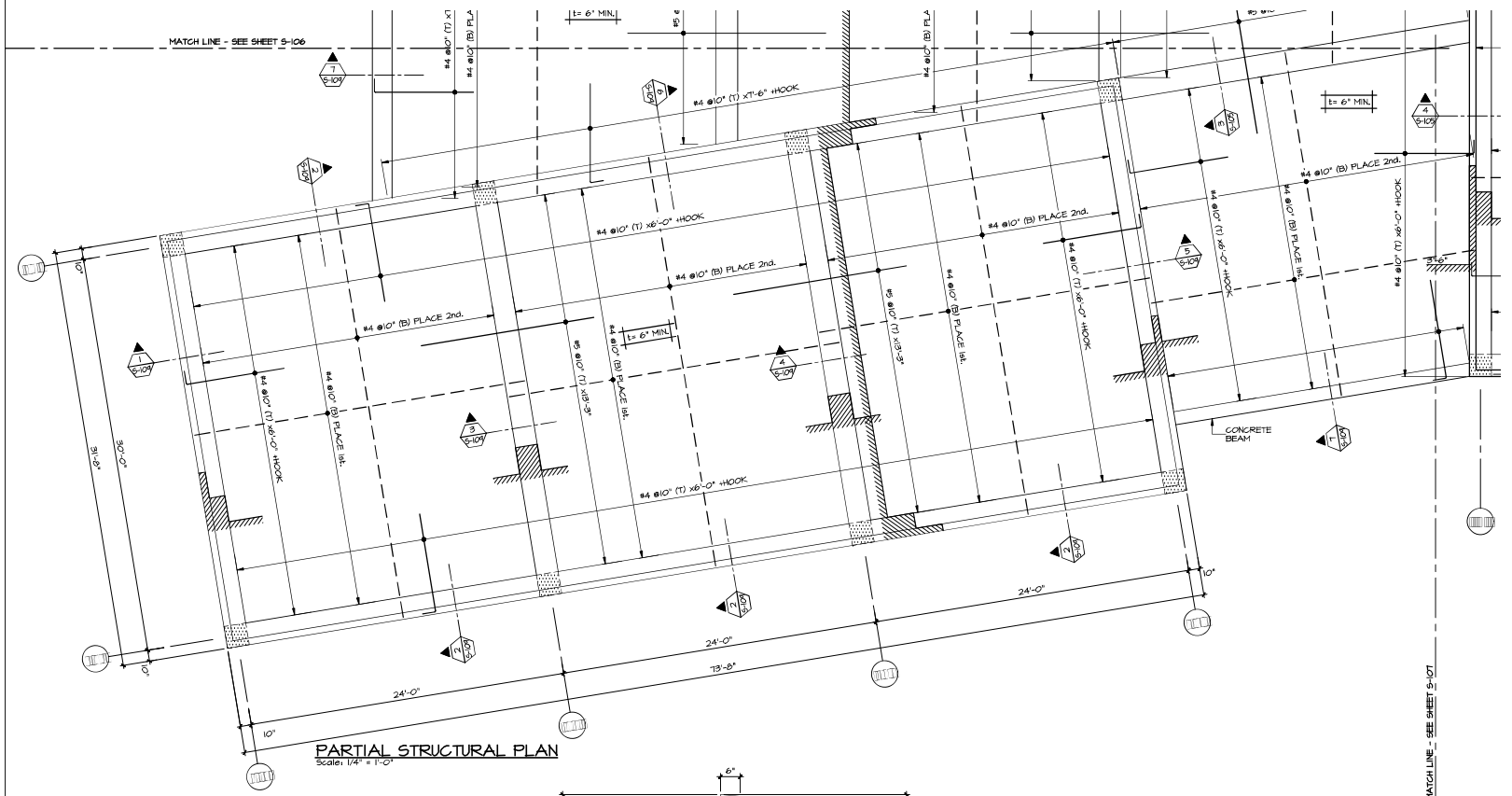
PROJECTS: 23-87

DATE: 11-13-2024

DRAWING No.

S-107

PAGE: 001 52



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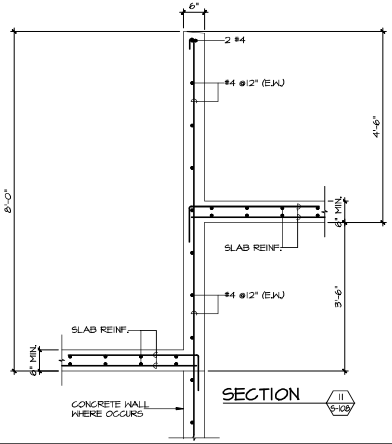
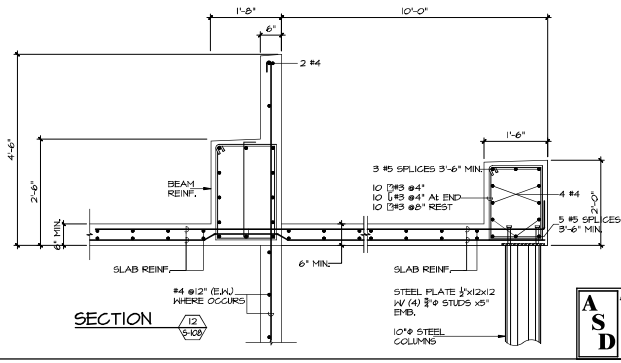


SECTION 11 S-108



SECTION 12 S-108

ANIBAL SALGADO DIAZ, MSCE, P.E.
STRUCTURAL ENGINEER
OFICINA CONSULTORA ASD, SRL CIVILES, PSC PUERTO RICO
(PROFESIONAL PRACTICANDO)
DIRECCIÓN DE CALLE TOPEL - SAN JUAN PR - CÓDIGO P.O. 00915
OFICINA: 787-1-1000
EMAIL: asdiaz@gmail.com
PROJECTS 23-07
DATE: 11-13-2024

PROJECT ADDRESS
ELDERLY SERVICE CENTER
CALLE FERROCARRIL #11 BO.
PUEBLO, LAJAS, P.R. 00667

GPS LATITUDE/LONGITUDE:
18.04941608, -67.05761236

OWNER
LAJAS MUNICIPALITY

REGISTER No.
358-032-072-01

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D

IMPORTANT NOTES TO THE CONTRACTORS

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE PROCEEDING WITH WORK. IF ANY DISCREPANCIES, ERRORS OR OMISSIONS SHOULD BE ENCOUNTERED ON PLANS, CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY AND SHALL NOT PROCEED TO BE STARTED FOR THAT PROPER CORRECTIONS ARE MADE. IF ENGINEER IS NOT NOTIFIED PRIOR TO COMMENCING OF THE WORK. ALL DESIGNS AND DRAWINGS HEREIN AND PRINTS ISSUED BY THE ENGINEER ARE THE PROPERTY OF THE ENGINEER AND SHALL NOT BE REUSED ON ANY OTHER LOCATION EXCEPT THE ONE FOR WHICH THEY EXPRESSLY DESIGNED. IF THESE DRAWINGS OR ANY PART THEREOF IS REPRODUCED WITHOUT THE CONSENT OF THE ENGINEER, THE PERSON WHO IS DOING WILL BE INDEBTED TO THE ENGINEER FOR HIS FULL COMMISSION. CONTRACTOR SHALL NOT USE FOR CONSTRUCTION PURPOSES ANY DRAWINGS THAT WERE ADVANCE TO HIM PRIOR TO THE BEGINNING OF CONSTRUCTION. ALL PLANS BEING USED BY CONTRACTOR SHOULD HAVE A LABEL SAYING "FOR CONSTRUCTION ONLY" STAMPED AND SIGNED BY THE ENGINEER.

I, WILLIAM MELENDEZ RIVAS, LIC. 16383, CERTIFY THAT I AM THE PROFESSIONAL WHO [MADE, DESIGNED OR PREPARED] THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PROJECT THAT I HAVE DESIGNED AND SPECIFIED HAS BEEN FULLY COMPLIED WITH THE PROVISIONS OF LAW 14-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY" AND WITH THE [LAW NO. 319 OF MAY 15, 1938, AS AMENDED; ACT NO. 88 OF JULY 9, 1978, AS AMENDED; AS APPLICABLE]. I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY IGNORANCE OR NEGLIGENCE EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE OGPE.

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804 Plaza, San Juan, PR 00918
Tel. (787) 216-2262 / ext.
Email: bim@ingenium.group

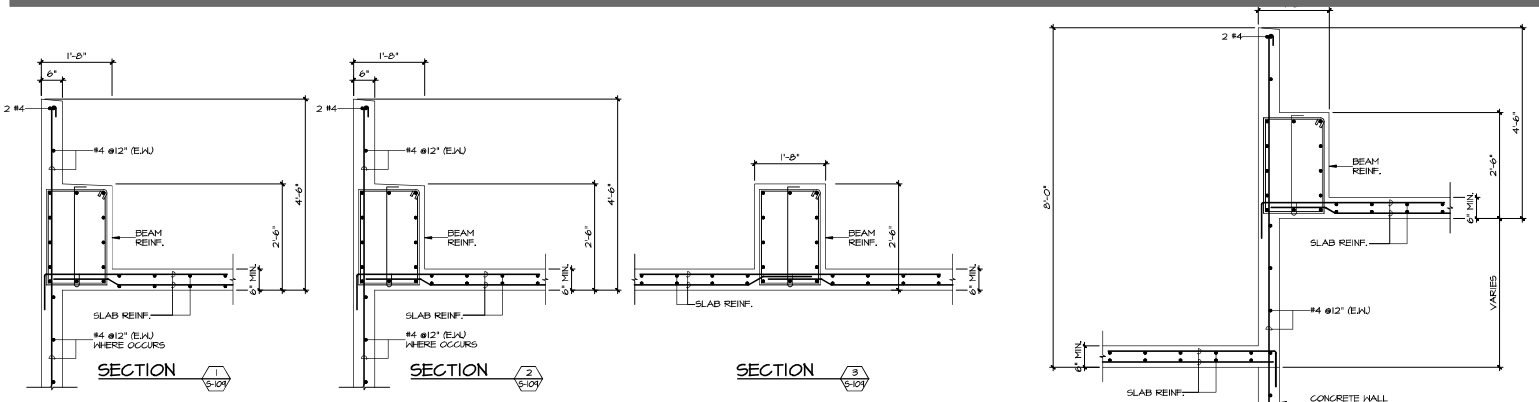
SIGNATURE

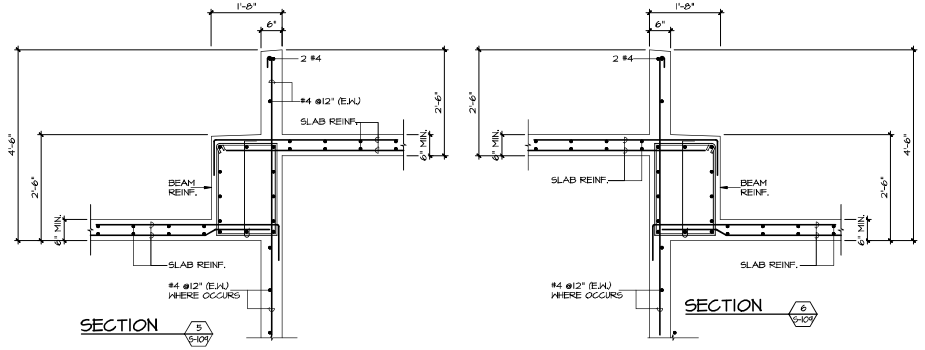
FILE
Dwg Name: INGENIUM GROUP
Drawn by: K.Y.P.
Revised by: A.S.D.
Plot Scale: AS SHOWN
Progress Print:

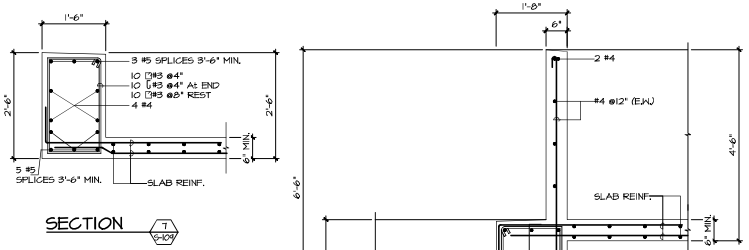
TITLE
PARTIAL STRUCTURAL PLAN & SECTIONS

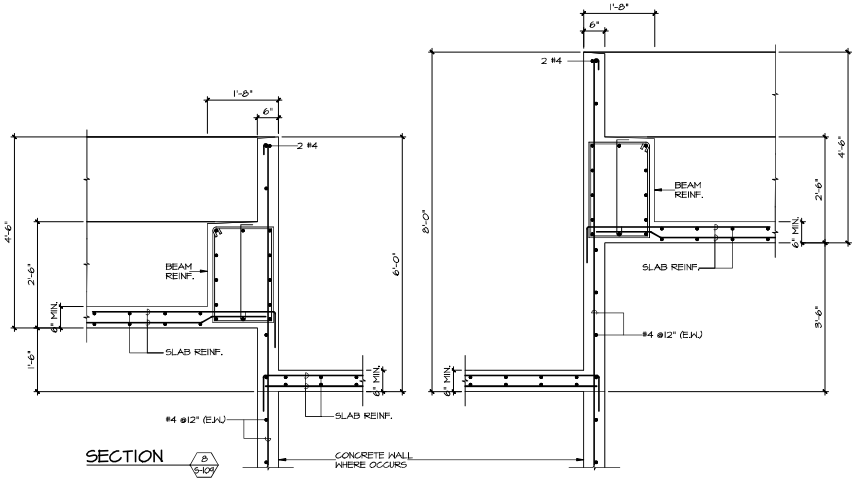
DRAWING No.
S-108

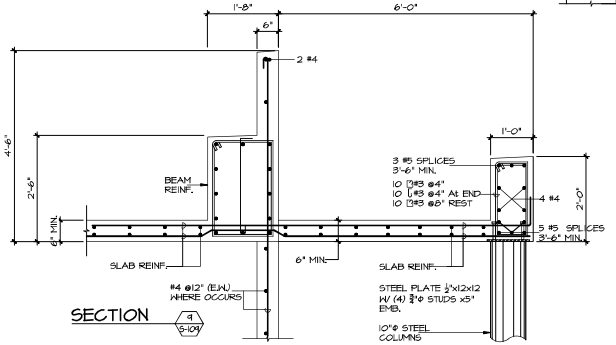
PAGE: 001 52











PROJECT ADDRESS
ELDERLY SERVICE CENTER
CALLE FERROCARRIL #11 BO.
PUEBLO, LAJAS, P.R. 00667

GPS LATITUDE/LONGITUDE:
18.04941608, -67.05761236

OWNER
LAJAS MUNICIPALITY

REGISTER No.
358-032-072-01

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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IMPORTANT NOTES TO THE CONTRACTORS
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STAMP
I, WILLIAM MELENDEZ RIVAS, LIC. 16383, CERTIFY THAT I AM THE PROFESSIONAL WHO [MADE, DESIGNED OR PREPARED] THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PLANS CONTAINED IN THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 14-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY" AND WITH THE [LAW NO. 319 OF MAY 15, 1938, AS AMENDED; ACT NO. 68 OF JULY 6, 1978, AS AMENDED; AS APPLICABLE] I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY IGNORANCE OR NEGLIGENCE EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE OGPE.

654 Ave. Muñoz Rivera – Suite 1808
404 Phoenix, San Juan, PR 00918
Tel. (787) 919-5050 / 5044
Email: info@ingenium.group

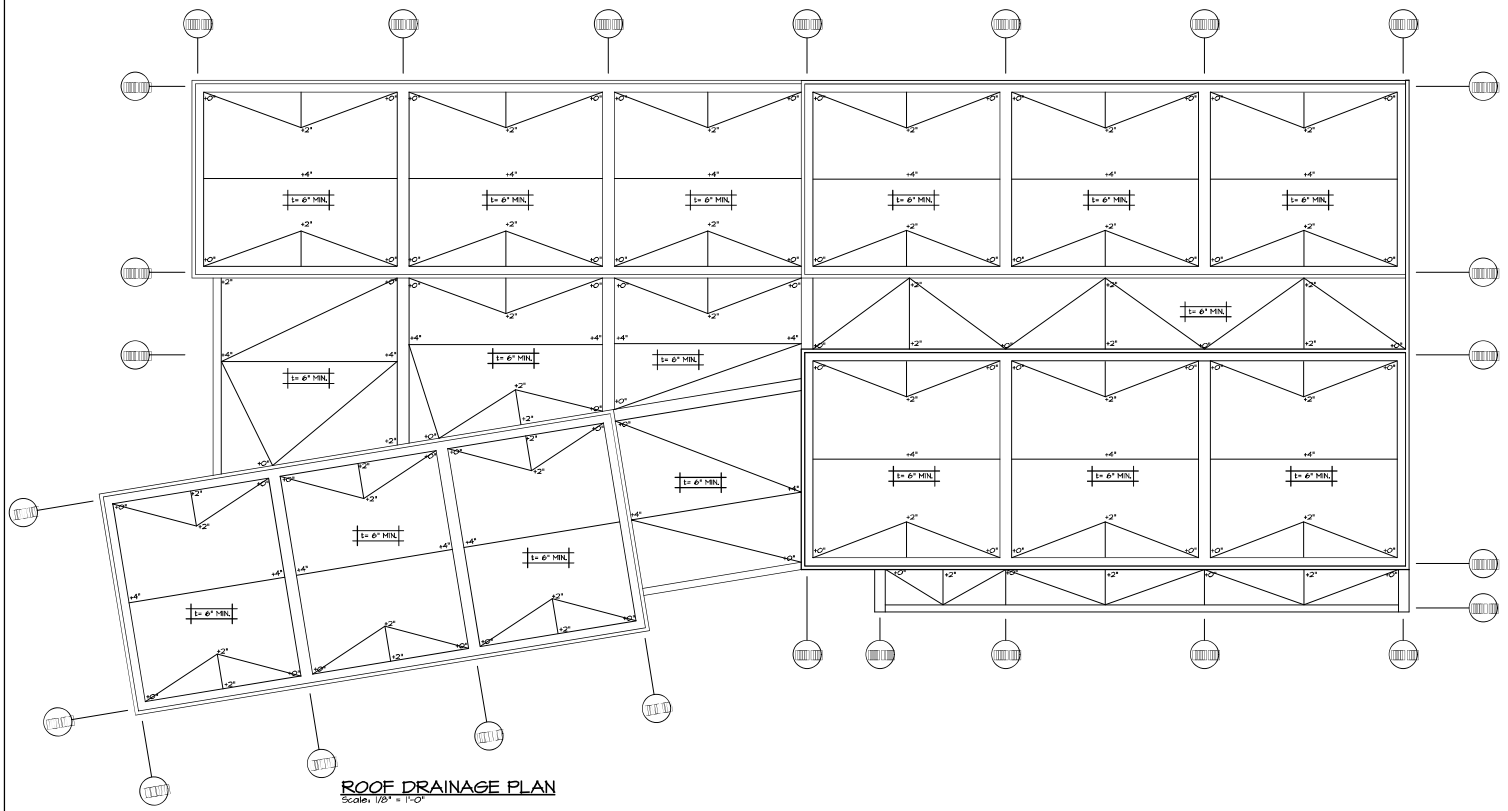
SIGNATURE

FILE
Dwg Name: INGENIUM GROUP
Drawn by: K.Y.P.
Revised by: A.S.D.
Plot Scale: AS SHOWN
Progress Print:

TITLE
SECTIONS

DRAWING No.
S-109
PAGE: 001 52

ASD
ANIBAL SALGADO DIAZ, MSCE, P.E.
STRUCTURAL ENGINEER
CIVIL ENGINEERING CONSULTANTS
PROJECT: 23-07
DATE: 11-13-2024



ROOF DRAINAGE PLAN
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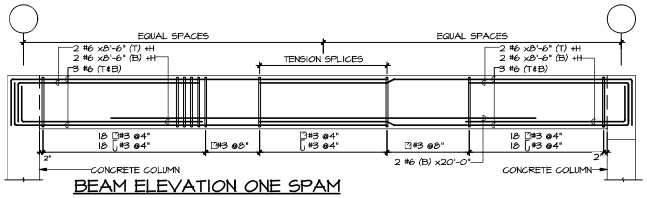

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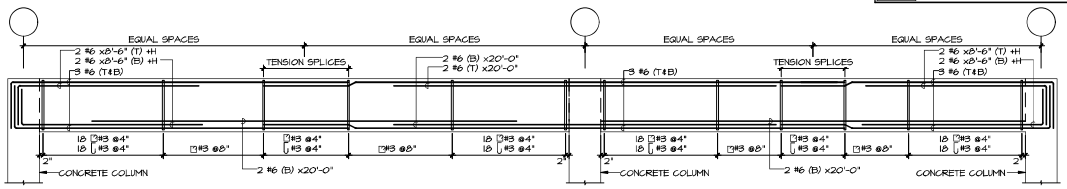

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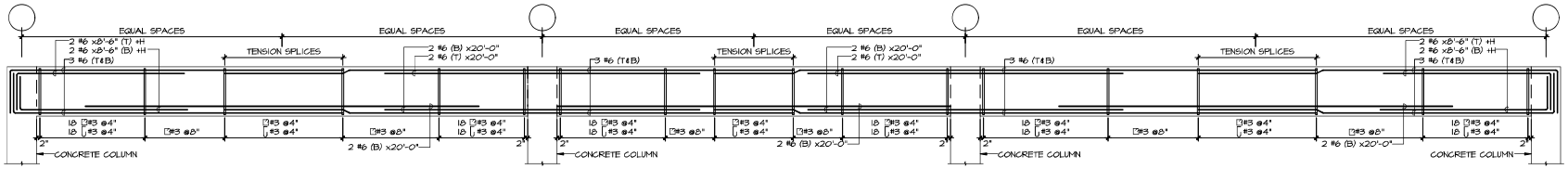

BEAM ELEVATION THREE OR MORE SPAM

PROJECT ADDRESS
ELDERLY SERVICE CENTER
CALLE FERROCARRIL #11 BO.
PUEBLO, LAJAS, P.R. 00667

GPS LATITUDE/LONGITUDE:
18.04941608, -67.05761236

OWNER
LAJAS MUNICIPALITY

REGISTER No.
358-032-072-01

REVISIONS

REV.	DATE	DESCRIPTION	BY CHK'D
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IMPORTANT NOTES TO THE CONTRACTORS
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ENGINEER SEAL
I, WILLIAM MELENDEZ RIVAS, LIC. 16383, CERTIFY THAT I AM THE PROFESSIONAL WHO [MADE, DESIGNED OR PREPARED] THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE INFORMATION CONTAINED IN THE SPECIFICATIONS HAS BEEN FULLY COMPLIED WITH THE PROVISIONS OF LAW 14-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY" AND WITH THE [LAW NO. 319 OF MAY 15, 1938, AS AMENDED; ACT NO. 88 OF JULY 9, 1978, AS AMENDED; AS APPLICABLE]. I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY IGNORANCE OR NEGLIGENCE EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE OGPE.

ASD
ANIBAL SALGADO DIAZ, MSCE, P.E.
STRUCTURAL ENGINEER
OFFICE: CALLEJON JOBOS, 1ER. CARRIL, BO PEDERNAL P.R.
(MAYAGUEZ MUNICIPAL PLANNING)
OFICINA DE CAMA VISTA - SAN LUIS #5 - GUAYANILLA P.R. 00775
HOME: 787-4228
EMAIL: asdstructural@gmail.com
PROJECT: 23-87
DATE: 11-13-2024

654 Ave. Muñoz Rivera - Suite 1808
654 Plaza, San Juan, PR 00918
Tel. (787) 918-1060 / Ext.
Email: info@ingenium.group

SIGNATURE

FILE
Dwg Name: INGENIUM GROUP
Drawn by: K.Y.P.
Revised by: A.S.D.
Plot Scale: AS SHOWN
Progress Print:

TITLE
ROOF DRAINAGE PLAN & BEAM ELEVATION

DRAWING No.
S-110

3 D V I S U A L I Z A T I O N S

1 **3D VISUALIZATION**
SCALE: N/A

PROJECT ADDRESS
CII PALMER, CANÓVANAS, 00729,
PUERTO RICO.
GPS LATITUDE/LONGITUDE:
18.37956841, -65.90125588

OWNER
CANÓVANAS MUNICIPALITY

REGISTER No.
266-075-038-21-001

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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CERTIFICATION

I, WILLIAM MELENDEZ RIVAS, LIC. 16383, CERTIFY THAT I AM THE PROFESSIONAL WHO (MADE, DESIGNED OR PREPARED) THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 16-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY" AND WITH THE [LAW NO. 319 OF MAY 15, 1938, AS AMENDED; ACT NO. 96 OF JULY 6, 1978, AS AMENDED, AS APPLICABLE]. I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY IGNORANCE OR NEGLIGENCE EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE DGPE.

INGENIUM PROFESSIONAL GROUP
604 Ave. Melisa Rivera - Suite 1838
654 Plaza San Juan, PR 00918
Tel: (787) 918-6890 / 6891
Email: info@ingenium.group

SIGNATURE

FILE

Dwg Name: INGENIUM GROUP

Drawn by: INGENIUM GROUP

Revised by: ING. WILLIAM MELENDEZ

Plot Scale: AS SHOWN

Progress Print:

TITLE
3D VISUALIZATIONS

DRAWING No.
R100

3/4/2025

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-000902, Elderly Service Center, Lajas, 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 Elderly Service Center, adjacent to the National Register of Historic Places eligible Lajas Traditional Urban Center. The Municipality of Lajas proposes the demolition of an existing c1950 abandoned and dilapidated concrete structure and the construction of a new concrete building as a multiple service facility for the elderly residents of the community. The project also includes parking, driveways, a gazebo, reforestation activities, landscaping, and the implementation of green initiatives such as recycling station and intelligent waste management. 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**" is appropriate for this undertaking, conditioned to archaeological monitoring during all ground-disturbing activities. If this condition is deemed appropriate, an archaeological monitoring plan will be prepared and submitted to the PRSHPO for review and concurrence of the appropriateness of its implementation for this undertaking. for review and concurrence of the appropriateness of its implementation for this undertaking.

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

Kindest regards,

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

Attachments

PR-CRP-000902

Elderly Service Center Project

Lajas, Puerto Rico

Section 106 Effect Determination Form

CDBG-DR PROGRAM **CITY REVITALIZATION PROGRAM (CITY-REV)** **Section 106 NHPA Effect Determination**	
Subrecipient: Lajas Municipality	
Project Name: Elderly Service Center	**Project ID:** PR-CRP-000902

Project Location: #11 Ferrocarril Street Pueblo Ward, Lajas, 00667	
Project Coordinates: 18.049416, -67.057612	
TPID (Número de Catastro)**:** 358-031-072-01-901	
Type of Undertaking: ☐ Substantial Repair ☒ New Construction	
Construction Date (AH est.): circa 1950	**Property Size** (acres)**:** 1.18

SOI-Qualified Architect/Architectural Historian: Maria F. Lopez Schmid, MAHP
Date Reviewed: 2/21/2025
SOI-Qualified Archaeologist: Victor Oppenheimer Rodriguez, M.A.
Date Reviewed: 25FEB2025

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

Project Description (Undertaking)

The Municipality of Lajas proposes the design and construction of multiple service facility for the elderly residents of the community. The proposed project includes the following works and/or activities: design and construction of a facility with a kitchen area, dining room, activity room, workshop room, administrative offices, nursing office, social work office, food warehouse, disposable warehouse, general warehouse, bathrooms, shower area, laundry, parking, with two street access via Santa Rosa Street (north) and Ferrocarril Street (west), and a recreational area.

The project includes the demolition of an existing c1950 abandoned and dilapidated concrete structure measuring 34' by 36' and the construction of a new concrete building measuring 145' by 94'. The existing two-story building has concrete walls on the first level, concrete columns and low walls on the second level and no roof. A set of concrete stairs is on the north elevation and another staircase is perpendicular to the building on the south elevation. There are no doors, and the remaining windows are metal jalousie.

The type of construction proposed will be concrete, cement blocks and asphalt, steel will also be used, and others if necessary. The approximate area or dimensions of the project area are 1.18 acre (4,526.50 square meters). The site is an irregular shaped lot with access to

Santa Rosa Street to the north and to Ferrocarril Street on the west. The new concrete building will occupy the center of the lot and have a main entrance via Santa Rosa Street with seven parking spaces and a front garden area with gazebo and planting. A secondary entrance via Ferrocarril Street will have about 28 parking spaces, driveways, and planting areas with a garden area on the projecting southeast corner of the lot.

This project includes reforestation activities, landscaping and the implementation of green initiatives such as recycling stations, intelligent waste management and among others. The design of the project contemplates compliance with regulations and laws for the elderly and/or people with disabilities (Americans with Disabilities Act, ADA). An emergency generator (or equivalent redundant power source), will be located at #11 Ferrocarril Street, coordinates 18.04941608, -67.05761236.

This project is important to the town of Lajas because among the elderly residents of the community, 63.2% are below the poverty level and 17.4% are over the age of 65 and the trend is one of continuous increase. The municipality offers a free public transportation service directly to this population in all neighborhoods of Lajas. This will make it easier to receive services. The location of the project within the urban area provides elderly citizens with proximity to medical offices, pharmacies, shops, supermarkets, municipal and state agencies as well as parks and recreational areas, among others. The facilities will be managed by the Municipality of Lajas for the benefit of the public interest in collaboration with non-profit groups and entities. Hurricanes Maria and Irma caused considerable damage in our area, with Hurricane Maria having the greatest impact. During this event, basic services were interrupted for long periods of time, causing the elderly population to be among the most impacted.

Area of Potential Effects

As defined in 36 CFR §800.16(d), the area of potential effects (APE) is the geographic area or areas within which an undertaking may directly or indirectly cause changes in the character or use of historic properties if any such properties exist. Based on this definition and the nature and scope of the Undertaking, the Program has determined that the direct APE for this project is 1.18 acre (4,526.50 square meters) and the visual APE is the viewshed of the proposed project. According to the deed the site is limited on the north by the police headquarters and Santa Rosa Street, to the south by lands of the Adventist church and lands of Joaquín Milan, to the west by Ferrocarril Street, the former railroad line limited the lot on its

west side. To the east by lands of the Commonwealth where the Leonides Morales Rodriguez High School is located.

The Visual APE is limited to the north by the facades of the building across Santa Rosa Street and the Puerto Rico police headquarters Lajas Station building. To the west the view is limited by the facades of the building across Ferrocarril Street that are part of the Lajas Traditional urban Center. To the south, the Seventh-Day Adventist church building and tall vegetation limits the view, and to the east the Leonides Morales Rodriguez High School building.

Identification of Historic Properties - Archaeology

Existing information on previously identified historic properties has been reviewed to determine if any such properties are located within the APE of this undertaking. The review of this existing information, by a Program contracted Historic Preservation Specialist meeting the Secretary of the Interior's Professional Qualification Standards (36 CFR Part 61), shows that the project area exhibits high potential for uncovering well-preserved archaeological deposits within the APE. Historical records and topographic maps indicate that a railroad, as suggested by the "Ferrocaril Street" address, traversed the southwest and western sections of the parcel. This evidence supports the likelihood that further archaeological investigation will reveal significant deposits related to the historical transportation network.

Historical Context of the APE

Lajas has a rich history that continues to shape its character today. Incorporated as a village in 1824, the community began when don Jácome Pagán donated land for an auxiliary parish in the old Lajas neighborhood of San Germán. By around 1844, a cemetery had been established, and the parish became the center for baptisms, burials, and marriages. In 1878, residents formally requested that Lajas segregate from San Germán—a change completed in 1883 despite local opposition. The new municipality was planned with six streets arranged around a central plaza. Key civic structures include the old parish church (dating from 1896), the town hall (built in 1889), and the Perry School (established in 1904). At the change of sovereignty in 1899, Lajas was home to 8,789 inhabitants and boasted six schools, reflecting a community in growth.

As the town developed, daily life was marked by modest amenities and traditional practices. By the late 19th and early 20th centuries, infrastructure improvements began to reshape the community. Pedro Cobreros, the state architect, presented draft plans in 1896 to complete the construction of the parish church, which was originally built of wood. Around 1903, the

railway began to pass through Lajas, beginning a new era of connectivity. Between 1910 and 1914, roads and bridges were constructed to link Lajas with neighboring towns, and by the 1920s, modern amenities such as aqueducts and electricity were introduced. The local economy was also influenced by agriculture and industry; in the 19th century, sugar mills such as Amistad, Aurora, and Resolución were in operation, and in 1907 the Palmarejo Pineapple Canning Co. was established. Further infrastructure works between 1919 and 1928 saw the construction of the Lajas-Boquerón and Lajas-Guánica highways, alongside improvements in educational facilities.

Railroad Historical Context

The arrival of the Circumferential Railway was pivotal to the region's development. Originally operated by the Puerto Rico Railroad Company (CFPR) from 1891, the line passed to the American Railroad Company of Porto Rico (ARRCo) in 1900 and later to the Puerto Rico Railroad & Transport Company (PRRT) in 1948. This railway connected major centers along a route measured from kilometer 0 at the Central Station in San Juan, with stations marked by specific kilometer indicators—a system established by ARR circa 1926.

The railway's key segments include the San Germán to Lajas section which was completed in March 1908, and train service between Lajas and Ponce, which began appearing in timetables by October 18, 1903. The 41-kilometer stretch from Lajas to Yauco was inaugurated on December 31, 1906. "Lajas Campo" Station, known locally as "Estación Campo" due to its location 1.6 kilometers from the urban center, began operating in October 1903 on the Hormigueros-Yauco segment. For many years, it served as Lajas' primary rail hub until ARRCo established a signal stop at the northern end of Calle Amistad, which is approximately 0.11 mi northwest of the APE. According to Pumarada (1988: 91), only the station's floor was discovered. It was rectangular in shape, measuring 6 meters wide by 9 meters long, and no losetas were found. In addition to Lajas Campo, the community also featured stations in Lajas Arriba and La Plata.

The "Lajas Campo" station was a key component of the southwest's rail network. It connected the main San Germán–Lajas line with the Cabo Rojo branch (from 1908 onward) and played a central role in transporting cane-laden wagons to the Guánica Sugar Mill. The facility featured approximately 12 sidings capable of storing up to 225 wagons, the island's fourth largest water tank with a capacity of 51,720 gallons, a weighing station, and a coal depot that operated until the 1930s. A bunker fuel tank for locomotives and a garage with space for six engines—doubling as a maintenance workshop—physically marked its importance. According to Juan Quiñones Borrero, the last rail operation in Ponce occurred on August 21, 1956, marking the end of an era.

Together, these historical narratives weave a comprehensive picture of a community that evolved from a modest village into a dynamic municipality intertwined with regional transportation and industrial networks. The layers of history—from civic development and infrastructural improvements to the vital role of the railway—highlight the archaeological potential of the APE, promising insights into both cultural and economic transformations over time.

Archaeological Surveys within quarter-mile research area

The historical topographic maps and aerial imagery of the APE provide critical insights into past land use that significantly inform its archaeological potential. The 1937 topographic map reveals that a north–south railroad—identified as the "American RR of Porto Rico"—traversed the area along its western boundary. This feature, confirmed by the 1941 map, suggests that the region was once connected to broader transportation and economic networks, potentially facilitating transient settlements and related activity.

Sporadic structures noted along the northern and southern borders of the APE, particularly adjacent to roadways, indicate that although development was minimal, human activity was present. From 1937 to 1966, the maps consistently show limited development with only a single centrally located house. This relative lack of intensive alteration is a promising sign from an archaeological perspective, as it suggests that subsurface deposits might have remained undisturbed over time.

Aerial imagery adds another layer to this narrative. The 1975 images document a house in the center-eastern part of the parcel, and by 1998, the sole structure identified appears to have a metal roof—indicating minor modern modifications rather than extensive redevelopment. Although the 2007 imagery shows some vegetation clearing on the northern part of the parcel, likely for use as parking for nearby establishments, subsequent images from 2010 and 2017 confirm that most of the site remains covered by dense vegetation. This sustained natural cover further enhances the site's archaeological potential by limiting disturbances that could disrupt or destroy historical contexts.

Despite Lajas' extensive history with sugar cane agriculture, the APE appears to have been largely bypassed by intensive agricultural exploitation and was more likely used for subsistence farming. This pattern of limited use, combined with the strategic placement near historical transportation routes, underscores the likelihood that the area retains undisturbed

archaeological materials that could offer insights into both local settlement patterns and broader socio-economic interactions in the past.

Finally, the land acquisition details—specifically, the sale of parcel 358-031-072-01-901 (#Finca: 4533; #Escritura: 31) by Jose Ramos Pagan to the "Municipio de Lajas" in September 2007—provide a documented endpoint of its known modern use, framing a clear timeline that contrasts sharply with its earlier, less intrusive usage. This historical continuity, or rather the lack of major disturbances, further highlights the case for its archaeological potential.

Archaeological Surveys (quarter-mile research area) & Archaeological Potential of the APE

A review of previous archaeological surveys conducted within a quarter-mile radius of the APE provides insights into the area's historical and cultural context. The surveys, primarily Phase IA studies, have yielded both positive and negative results, and are discussed below.

The Phase IA survey conducted by Jaime G. Vélez Vélez in 2004 for the *Nuevo Hogar Seguro* project (SHPO-03-04-03-04 / CAT-LJ-04-05-06) resulted in negative findings, indicating no significant archaeological materials were identified within the survey area, located approximately 0.04 miles northwest of the APE.

Similarly, the Phase IA survey by Juan González Colón in 2001 for a *Commercial Building Project* (CAT-LJ-01-04-05) also yielded negative results. This survey, situated 0.20 miles south of the APE, suggests that archaeological resources were not present within that portion of the study area.

Conversely, several surveys within the quarter-mile research area produced positive findings, warranting further investigation. The Phase IA study conducted by Harry Alemán Crespo in 2016 for the "*Remodelación y Rehabilitación de la Plaza de Recreo Juan E. Ramírez Ortiz*" (ICP/CAT-LJ-15-09-08) identified a high archaeological potential due to the long history of land use, dating back to at least 1814. Historical research indicated that the first cemetery was located on the western side of the church, reinforcing the possibility of subsurface cultural deposits. Consequently, archaeological monitoring was recommended specifically during demolition work, including the excavation of test pits and stratigraphic studies. This site is located 0.16 miles northwest of the APE.

The Phase IA survey conducted by Eduardo Questell Rodríguez in 2004 for the *Urbanización Carmen Luisa Trunk*project (ICP/CAT-LJ-05-05-07) also yielded positive results, leading to a recommendation for a Phase IB survey. However, archival research did not locate the

documentation of this subsequent Phase IB investigation, leaving its outcomes unknown. However, this site is situated 0.23 miles northwest of the APE and the area will not be affected by the proposed project activities.

Additionally, the Phase IA study by Jaqueline López Meléndez in 2001 for the *Extension of PR-122* (ICP/CAT-SG-01-04-06) identified archaeological potential, with Phase IB testing recommended outside of the research area. This survey area is 0.18 miles northeast of the APE.

In short, while some surveys in the vicinity of the APE yielded negative results, others identified archaeological sensitivity, particularly in areas with long-standing historical occupation. Importantly, no archaeological studies directly studied the APE of case PR-CRP-000902 and the identification of the railroad that traverse the APE, as seen in the topographical maps and suggested by the street name "Ferrocarril st", and supported by historical accounts, show that there is a high likelihood of finding archaeological deposits within the APE. The minimal disturbance within the APE further increases the likelihood of finding new, well-preserved, and *in-situ* archaeological evidence. Hence, an archaeological monitoring is recommended for the proposed project activities.

Table 1. Archaeological sites, historic properties and historic districts located within the project area or within a quarter-mile radius

Name	SHPO id #	IPRC id #	Distance/Direction	Description	NRHP (listed, eligible, non-eligible, no data)
Iglesia Presbiteriana	LJ0200003	No data	0.04 mi northwest	Historic. Church.	No data
Escuela Oliver Hazard Perry	LJ0200004	No data	0.13 mi northwest	Historic. Classical Revival School between 1904-1907.	NRHP 13-12-2016

Name	SHPO id #	IPRC id #	Distance/Direction	Description	NRHP (listed, eligible, non-eligible, no data)
Antiguo Teatro RAIRI	LJ0200012	No data	0.15 mi northwest	Historic.	No Data
Colegio Luis Muñoz Rivera	LJ0200001	No data	0.12 mi southwest	Historic.	NRHP 12-19-2012
Cantera	No data	LJ-28D	0.25 mi northeast	Historic.	No data

Table 2. Cultural resources surveys conducted within the project area or within a quarter-mile radius.

Author	Phase/Title	Year	SHPO / IPRC code	Results	Distance/ Direction
Jaime G. Velez Velez	Phase IA / Nuevo Hogar Seguro	2004	SHPO-03-04-03-04 / CAT-LJ-04-05-06	Negative	0.04 mi northwest
Harry Aleman Crespo	Phase IA / Remodelacion y Rehabilitacion Plaza de Recreo Juan e. Ramirez Ortiz. Comunidades	2016	ICP/CAT-LJ-15- 09-08	Positive. Archaeological monitoring was recommended, only during	0.16 mi northwest

Author	Phase/Title	Year	SHPO / IPRC code	Results	Distance/ Direction
	Victoria, San Blas y Concordia			the demolition work.	
Eduardo Questell Rodriguez	Phase IA / Urbanizacion Carmen Luisa Trunk	2004	ICP/CAT-LJ-05-05-07	Positive. Phase IB was recommended.	0.23 mi northwest
Jaqueline Lopez Melendez	Phase IA / Extension De La Carretera PR-122 Desde la Carretera PR-166 Hasta La Carretera PR-116 Entre San German y Lajas	2001	ICP/CAT-SG-01-04-06	Positive. Phase IB was recommended outside of research area.	0.18 mi northeast
Juan Gonzalez Colon	Phase IA / Edificio Comercial	2001	CAT-LJ-01-04-05	Negative	0.20 mi south

Identification of Historic Properties - Architecture

Existing information on previously identified historic properties has been reviewed to determine if any such properties are located within the APE of this undertaking. The review of this existing information, by a Program contracted Historic Preservation Specialist meeting the Secretary of the Interior's Professional Qualification Standards (36 CFR Part 61), shows that the project area is adjacent to the National Register-eligible Traditional Urban Center of Lajas.

The following two National Register-listed properties are within a quarter mile radius from the subject property (APE). The Escuela Luis Muñoz Marin (12001076) was designated on

December 19, 2012, and the Escuela Oliver Hazard Perry was designated on December 13, 2012.

The **Escuela Luis Muñoz Marín** (18.047609, -67.058945) is located 0.15 miles southwest from the APE. Built in 1926, the Luis Muñoz Rivera School, in Lajas, is a one-level reinforced concrete building, whose style combines elements of Beaux Art with the Spanish Renaissance. Designed by Fidel Sevillano Espinosa in 1923, the building originally had eight classrooms. The construction of the resource was done under the supervision of local contractor Bernardo Balbuquet. The Luis Muñoz Rivera School represents one of the best examples in terms of construction methods and techniques applied to school buildings in the first decades of the twentieth century.

The **Escuela Oliver Hazard Perry** (18.050184, -67.059829) is located 0.15 miles west from the APE. The Oliver Hazard Perry School is located on an urban lot in front of the public square, on the corner of San Blas Street and Concordia Street. The neoclassical L-shaped brick and concrete building had five rooms when it was erected in 1904. Designed by architect Charles G. Post of the Puerto Rico Department of Public Education the building was completed by contractor Adriano González. The Oliver Hazard Perry School is the oldest existing educational campus in the Municipality of Lajas and served as the main educational center of the town until 1926 when the Luis Muñoz Rivera School was built.

Additionally, there are eleven (11) National Register-eligible properties within the quarter mile buffer zone from the APE. These properties are:

1. **Casa Alcaldía** or City Hall (18.050779, -67.059602) was the Casa Consistorial, ca. 1889. It has neo-Mannerist language. Located 0.16 miles northwest of the APE.

2. **Colegio San Luis** (18.050677, -67.060117) the school was founded in 1938, the building dates to 1946. It has elements of classical language and curved eaves. Located 0.19 miles northwest of the APE.

3. **Parroquia La Candelaria** (18.050459, -67.059408) Much of the structure is contemporary (like the towers), but has portions from 1896 and elements of classical language. Located 0.14 miles northwest of the APE.

4. **Plaza Juan Ramírez** (18.050476, -67.059748) Located 0.15 miles northwest of the APE.

5. **Estación de Bomberos** (18.049619, -67.060819) built ca. 1942-1955, has elements of Art Deco and is similar to other stations on the island. Located 0.22 miles west of the APE.

6. **House** on Juan C. Ortiz Street (18.049242, -67.059478) is a masonry house with a continuous balcony with a wooden roof. It seems to retain original doors, windows and balcony elements. Located 0.11 miles west of the APE.

7. **House** on Juan C. Ortiz Street and the corner of Amistad Street (18.049149, -67.058892) is a Creole house of wood and concrete, built ca. 1950. Located 0.08 miles west of the APE.

8. **Residence Dr. Cornelio Jorge Tejeda** (18.048442, -67.059986) It is a Creole house in wood with a concrete balcony and hydraulic slab, with a hipped roof ca. 1950. Located 0.16 miles southwest of the APE.

9. **House** in PR-315 street (18.048165, -67.059390) is a Creole house of wood and concrete, ca. 1950. Located 0.13 miles southwest of the APE.

10. The **Old Hospital** (18.048689, -67.060088) Today it is a library or Cybernetic Center of the Inter-American University. Located 0.17 miles southwest of the APE.

11. **Resdencial Las Américas** (18.047703, -67.060224) originally consisted of 8 buildings and was occupied in 1962. Located 0.18 miles southwest of the APE.

Proposed Project

The proposed construction project of a multi-service elderly center is adjacent to the eligible Lajas Traditional Urban Center. The irregular-shaped lot appears to be vacant in the 1940 USGS aerial imagery, earliest available for the area. A house is present in the lot in 1975 USGS aerial imagery. The estimated time of construction for the house is 1950.

The house was a two-story, single-family, concrete house with a concrete foundation. At the time of the site visit, the upper lever is incomplete and missing the roof, with a concrete, railing-height wall guarding the front side of the building. Five concrete columns are present along the concrete railing on the second level. A few concrete walls are visible in the rear side of this level. No other exterior wall or roof is present in this level. A concrete stair with concrete railings in front of the building allows access to this upper level. The lower-level unit has an opening in the front concrete wall for access but is missing all the doors. Miami style metal windows are present on the front wall. An interior, concrete stair is in the rear side of this level's unit, allowing access to the upper level.

Of the seven aspects of integrity, as defined by the NRHP, the existing building fulfills only two. This building remains in its original location and the setting around the property has not had sufficient changes over the years. The existing building lacks integrity of design, since the second level and roof are lost, integrity of materials and workmanship are lacking. The building has not been maintained and has a lot of damage. Therefore, the building does not

comply with criteria of feeling and association and is not individually eligible nor contributing to the historic district.

This building fulfills none of the four NRHP criteria for evaluation:

A-Event: This building is not associated with the development of the Lajas Traditional Urban Center.

B-Person: The building is not associated to an individual, group or activities that were important within local, state, or national history.

C-Design & Construction: This building does not share the same characteristics of others in the district.

D-Information Potential: The building does not seem to yield important information to local or national history.

This property is not a contributing resource to the Lajas Traditional Urban Center since it does not contribute to the visual feeling of the town. The building is built set back in a hill, away from the street. This building lacks significance under all criterion defined by NRHP. However, the lot is adjacent to the Lajas traditional urban Center, for this reason the program has determined a finding of **No Adverse Effect** for the scope of work.

Determination

The following historic properties have been identified within the APE:

- Direct Effect:

  Archaeology: Overall, the confluence of historic mapping, aerial imagery, and minimal modern development suggests that the APE has a high archaeological potential, specifically related to the railroad that passed through the west side of the APE. Based on the results of our historic property identification efforts, the Program has determined that project actions will have an adverse effect to the historic properties that compose the Area of Potential Effect.

  Architecture: Demolition of the existing dilapidated building on site will not result in an adverse effect because this building is not individually eligible to the National register nor is it contributing to the Lajas Traditional Urban Center. Based on the results of our

historic property identification efforts, the Program has determined that project actions will not have an adverse effect to the historic properties that compose the Area of Potential Effect.

- Indirect Effect:

  Architecture: The construction of the project will have an indirect visual effect on the portion of Ferrocarril Street that fronts the APE on the west side of the site that are part of the Lajas Traditional Urban Center. The project will change the visuals from these building facades with the construction of a parking area and a larger building than what was previously existing. However, the police headquarters and the church buildings cover large portions of the site visuals to the rest of the historic district.

Based on the results of our historic property identification efforts, the Program has determined that project actions will affect the historic properties that compose the Area of Potential Effect. Based on the analysis of historic maps and aerial imagery, along with historical narratives and the limited development of the area, it is determined that the APE possesses high archaeological potential. This potential is particularly relevant to the railroad and its associated socio-economic processes, which serve as markers of both economic development and social interactions. These markers are capable of being preserved within the archaeological record. Consequently, it is assessed that the proposed project activities will have No Adverse Effect on the historic properties within the APE, provided that archaeological monitoring, as recommended, is implemented.

CDBG-DR PROGRAM CITY REVITALIZATION PROGRAM (CITY-REV) Section 106 NHPA Effect Determination	
Subrecipient: Lajas Municipality	
Project Name: Elderly Service Center	**Project ID:** PR-CRP-000902

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): Archaeological monitoring during all ground disturbing activities.
☐ Adverse Effect
Proposed Resolution (if appliable)

This Section is to be Completed by SHPO Staff Only

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

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM CITY REVITALIZATION PROGRAM (CRP) Section 106 NHPA Effect Determination	
Subrecipient: Lajas Municipality	
Project Name: Elderly Service Center	
Project Number: PR-CRP-000902	

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

Area of Potential Effect

Lajas Traditional Urban Center

Visual Area of Potential Effect

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM CITY REVITALIZATION PROGRAM (CRP) Section 106 NHPA Effect Determination	
Subrecipient: Lajas Municipality	
Project Name: Elderly Service Center	
Project Number: PR-CRP-000902	

Project (Parcel) Location Map

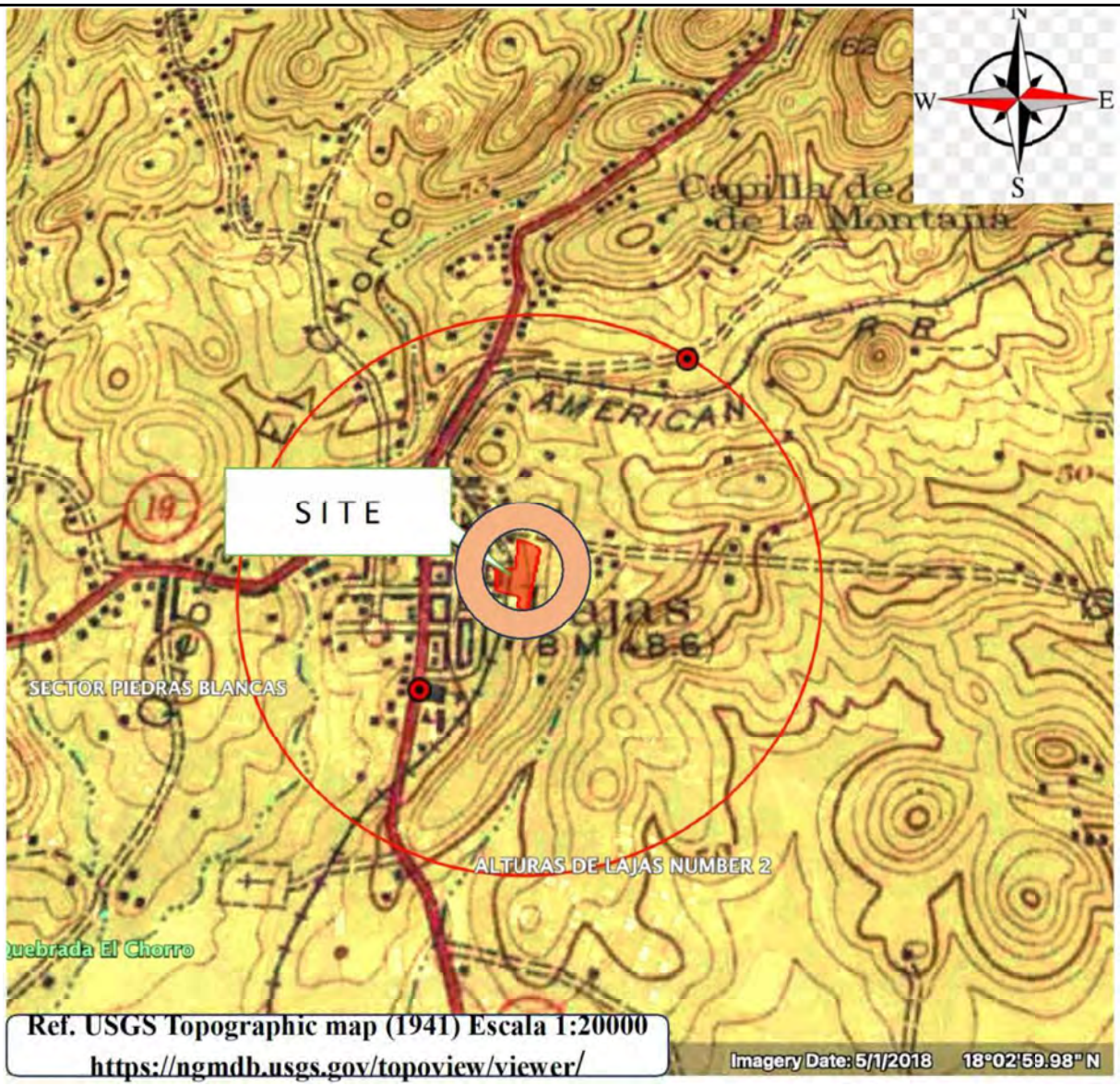
Area of Potential Effect

Subrecipient: Lajas Municipality

Project Name: Elderly Service Center

Project Number: PR-CRP-000902

Project (Parcel) Location - USGS Topographic Map

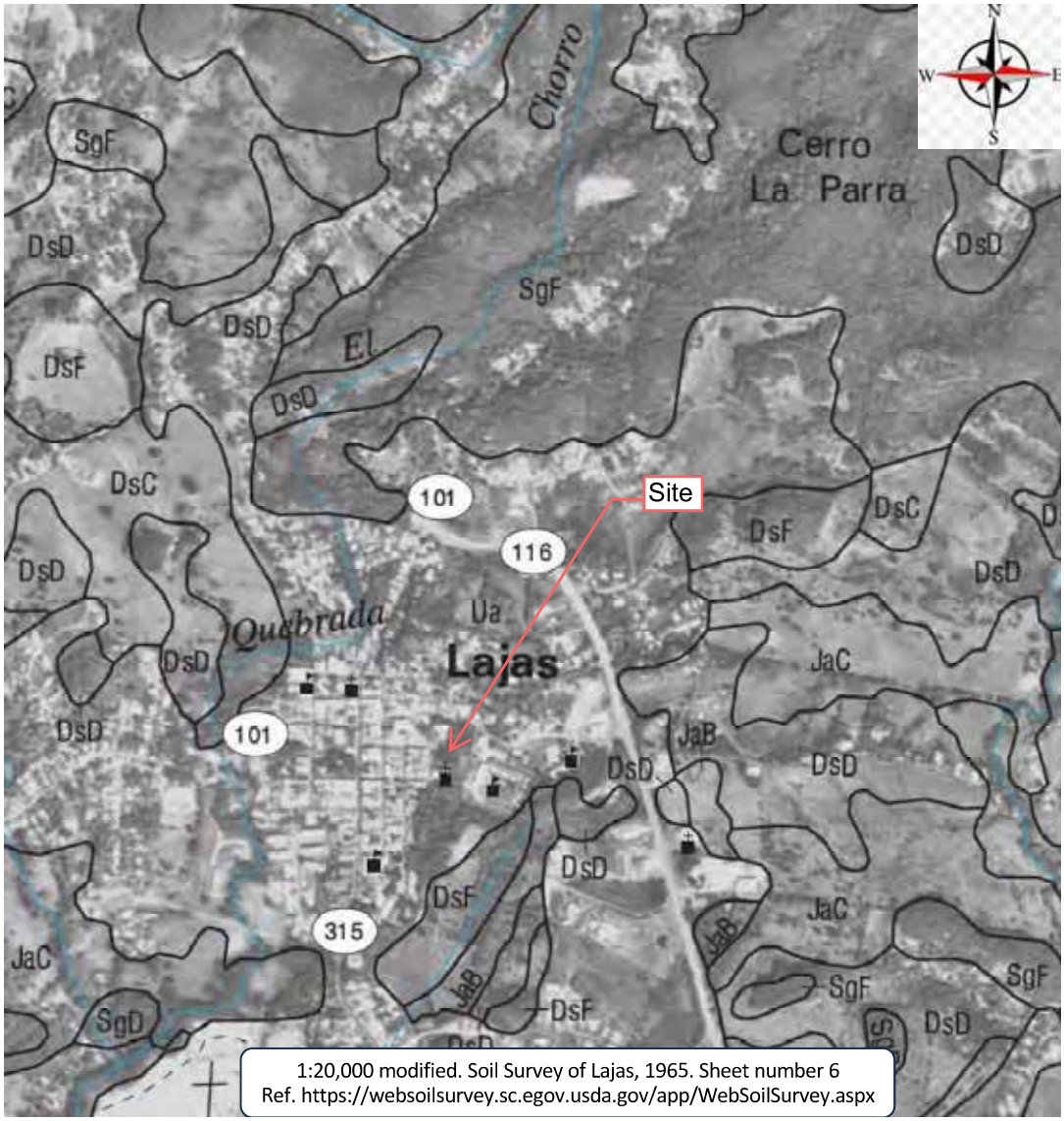


Subrecipient: Lajas Municipality

Project Name: Elderly Service Center

Project Number: PR-CRP-000902

Project (Parcel) Location – Soils Map



1:20,000 modified. Soil Survey of Lajas, 1965. Sheet number 6
Ref. https://websoilsurvey.sc.egov.usda.gov/app/WebSoilSurvey.aspx

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM CITY REVITALIZATION PROGRAM (CRP) Section 106 NHPA Effect Determination	
Subrecipient: Lajas Municipality	
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Ground disturbing Analysis

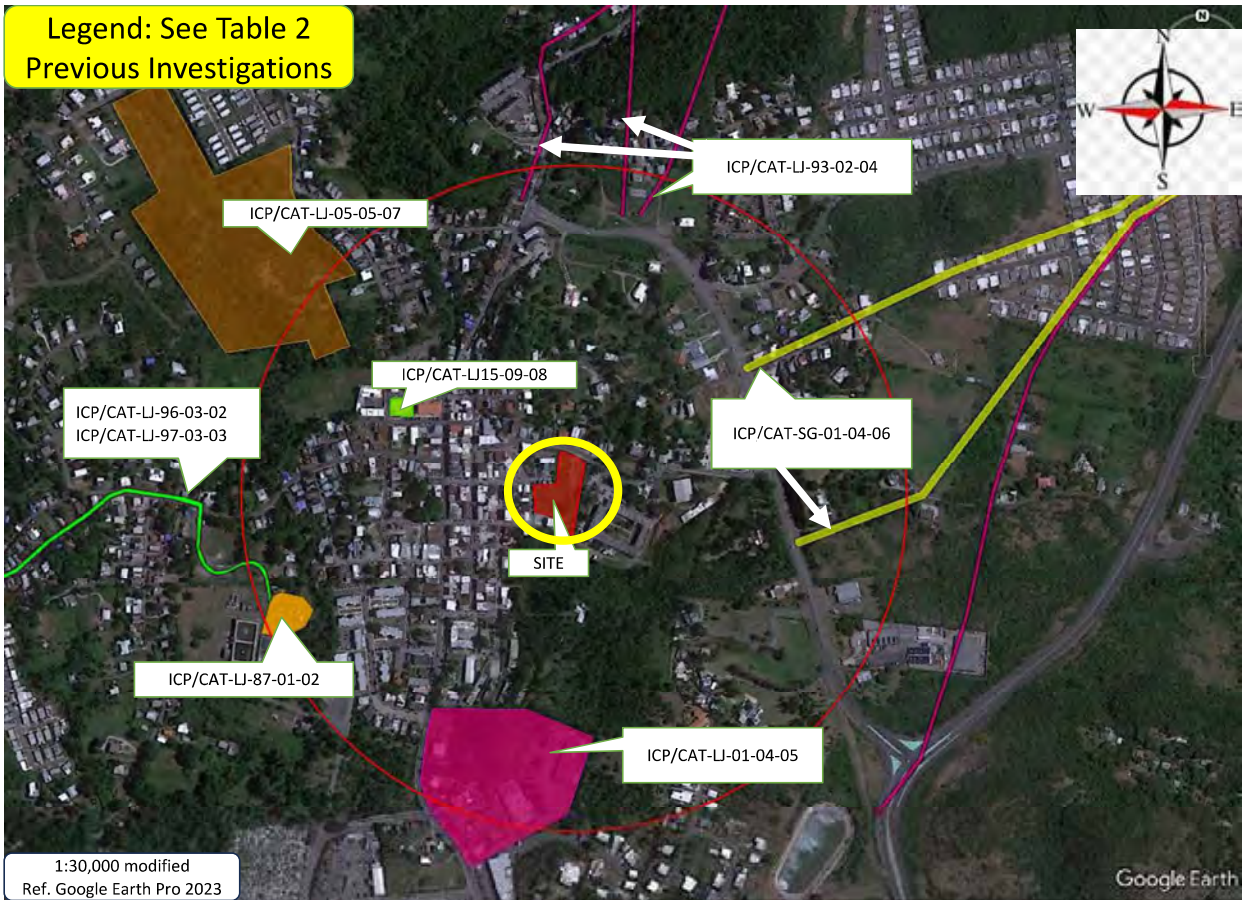
No to scale - Images fron Google Earth

Subrecipient: Lajas Municipality

Project Name: Elderly Service Center

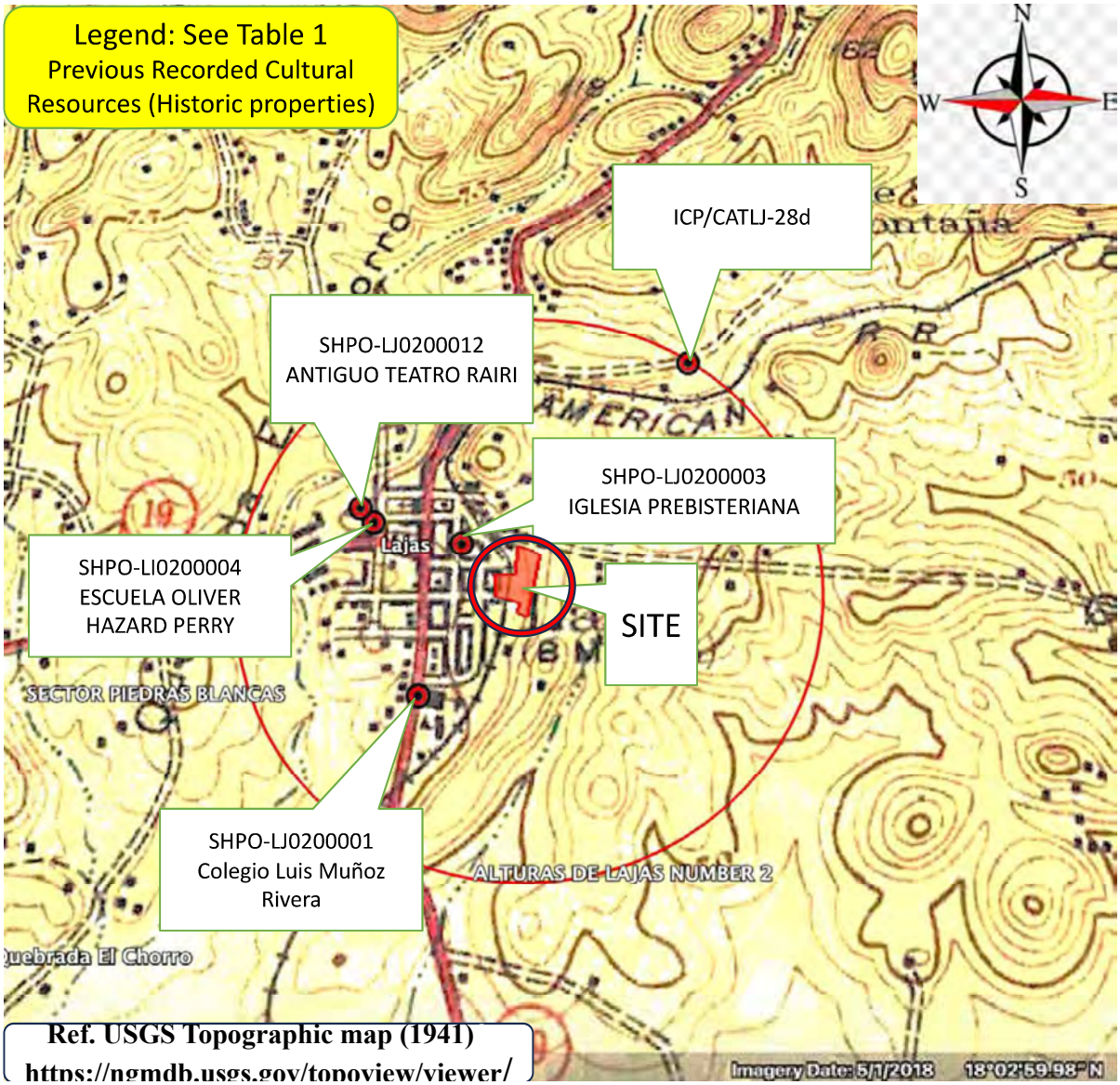
Project Number: PR-CRP-000902

Project (Parcel) Location with Previous Investigations - Aerial Map



PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM CITY REVITALIZATION PROGRAM (CRP) Section 106 NHPA Effect Determination	
Subrecipient: Lajas Municipality	
Project Name: Elderly Service Center	
Project Number: PR-CRP-000902	

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



Ref. USGS Topographic map (1941)
https://ngmdb.usgs.gov/topoview/viewer/

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM CITY REVITALIZATION PROGRAM (CRP) Section 106 NHPA Effect Determination	
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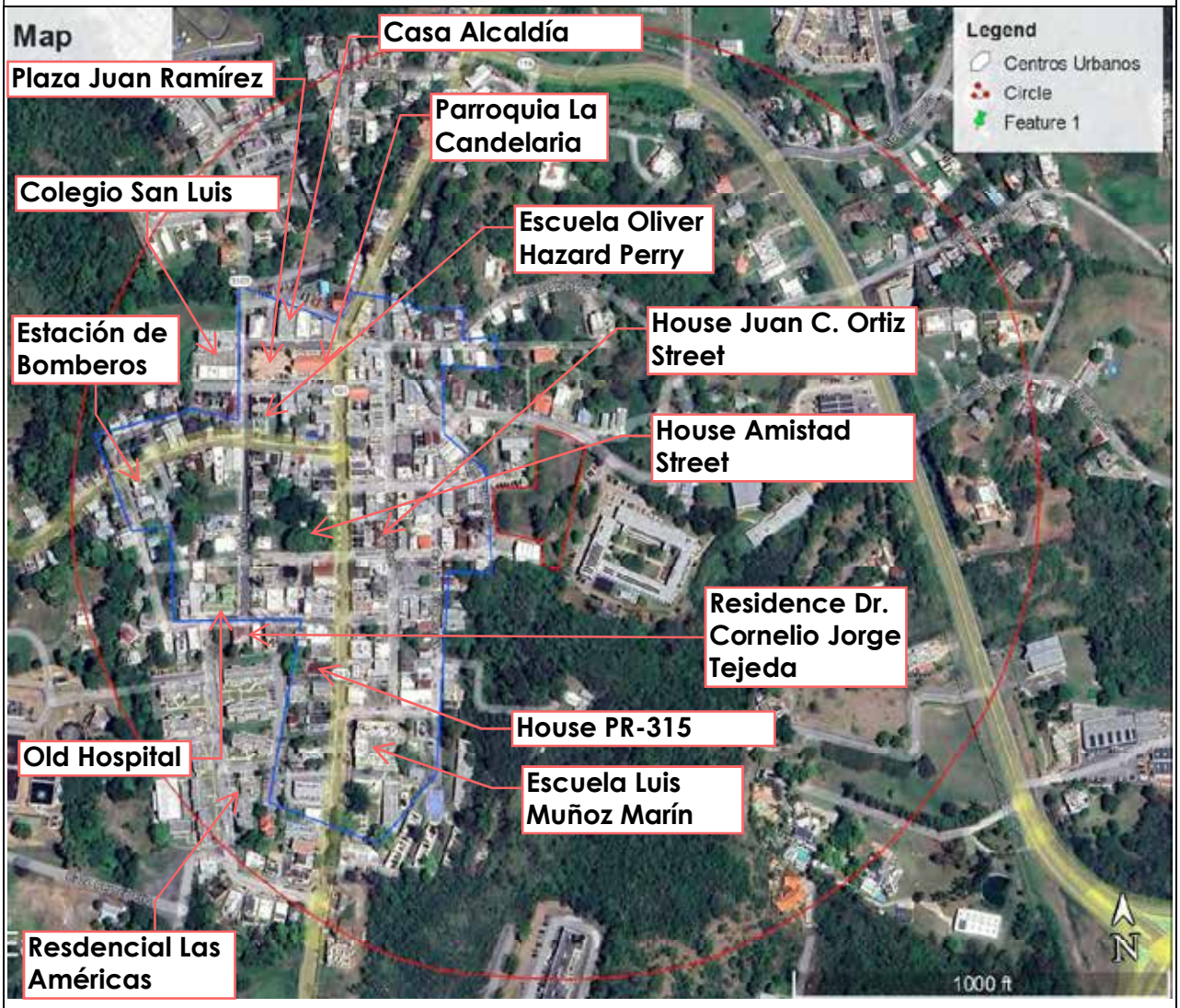
NRHP Listed and Eligible Properties - Aerial Map

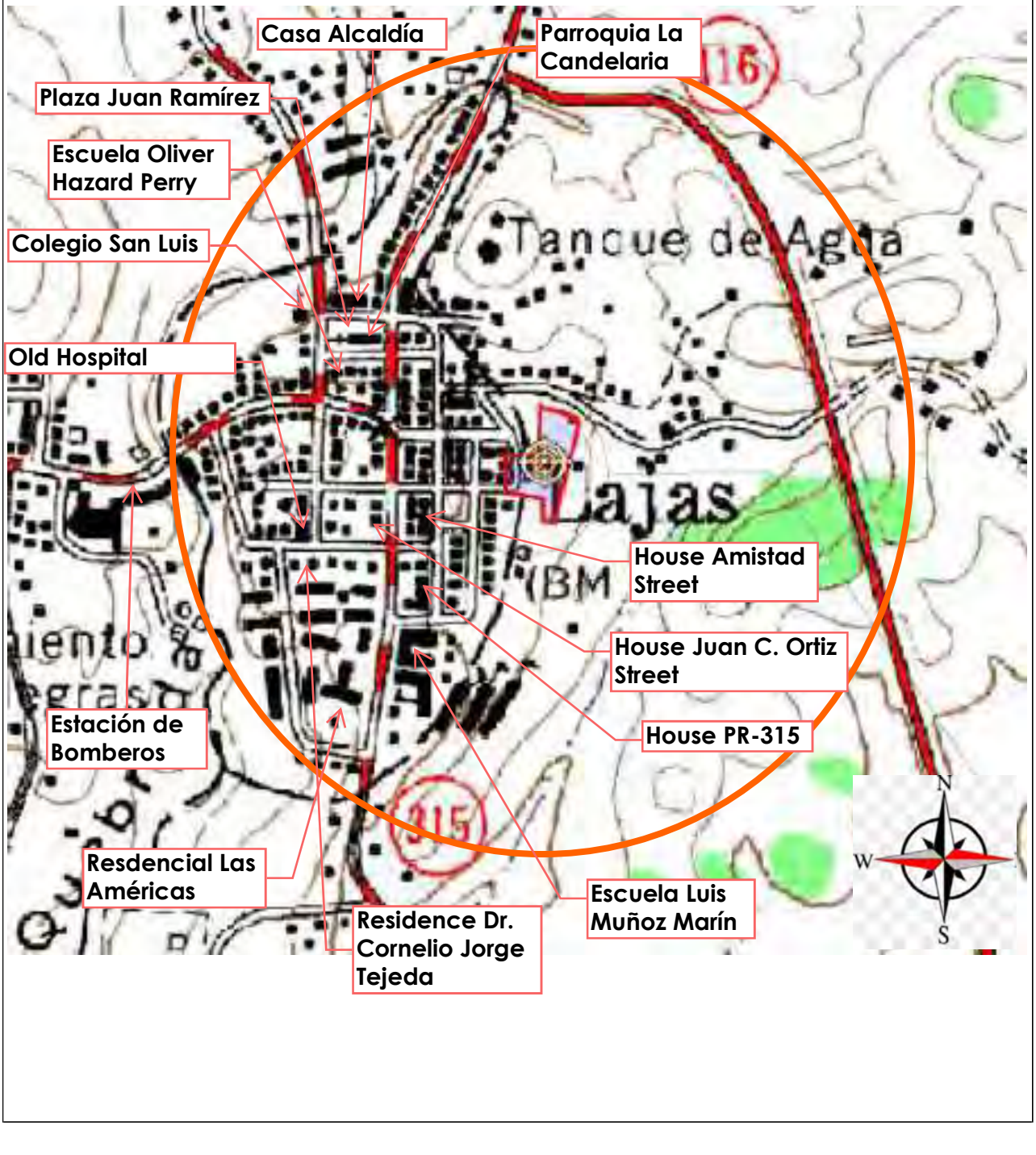


Project location

Traditional Urban Center

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM CITY REVITALIZATION PROGRAM (CRP) Section 106 NHPA Effect Determination	
Subrecipient: Lajas Municipality	
Project Name: Elderly Service Center	
Project Number: PR-CRP-000902	

NRHP Listed and Eligible Properties – Topographic Map



Subrecipient: Lajas Municipality

Project Name: Elderly Service Center

Project Number: PR-CRP-000902

Photo #: 1	**Description (include direction):**
Date: 3/18/2023	Main elevation facing west.

Photo #: 2	**Description (include direction):**
Date: 3/18/2023	Left elevation facing north.

Subrecipient: Lajas Municipality

Project Name: Elderly Service Center

Project Number: PR-CRP-000902

Photo #: 3	**Description (include direction):**
Date: 3/18/2023	Rear elevation, from the interior, facing east.

Photo #: 4	**Description (include direction):**
Date: 3/18/2023	Right elevation facing south

Subrecipient: Lajas Municipality

Project Name: Elderly Service Center

Project Number: PR-CRP-000902

Photo #: 5 **Date:** 3/18/2023	**Description (include direction):** View of upper-level front porch from the uncovered, tiled, concrete slab, camera facing west.

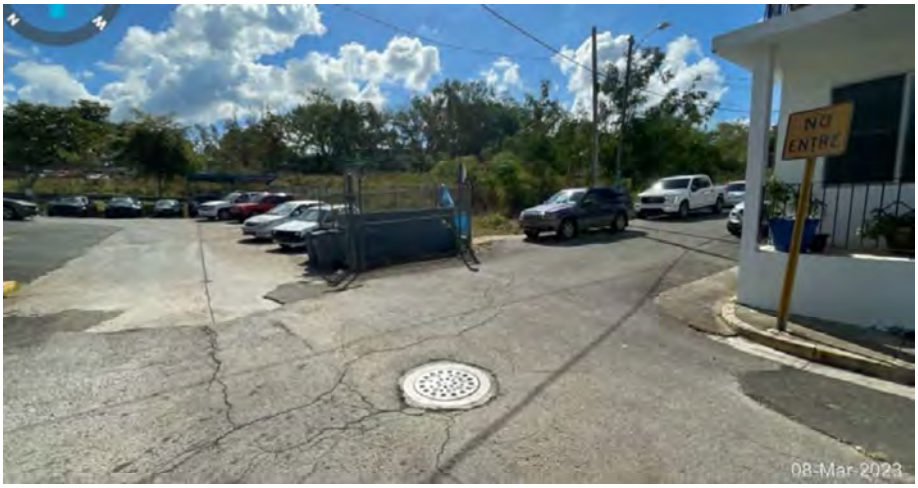


Photo #: 6 **Date:** 3/18/2023	**Description (include direction):** Street view facing the subject property and Police Station's parking lot, camera facing east.

PR-CRP-000902

Elderly Service Center Project

Lajas, Puerto Rico

90% Design Drawings

PR-CRP-00902 ELDERLY SERVICE CENTER
CALLE FERROCARRIL #11 BO. PUEBLO, LAJAS, P.R. 00667

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44	S201	STRUCTURAL DETAILS
45	S202	STRUCTURAL DETAILS
46	S300	TYPICAL CONCRETE DETAILS
47	S301	TYPICAL CONCRETE MASONRY UNITS DETAILS
ELECTRICAL DRAWINGS		
48	E100	ELECTRICAL NOTES & SIMBOLS
49	E101	ELECTRICAL SITE PLAN
50	E102	ELECTRICAL POWER DISTRIBUTION PLAN
51	E103	ELECTRICAL LIGHTING DISTRIBUTION PLAN
PLUMBING DRAWINGS		
52	P100	GENERAL PLUMBING NOTES
53	P101	PROPOSED PLUMBING SITE PLAN
54	P102	PROPOSED SANITARY PLAN
55	P103	PROPOSED WATER DISTRIBUTION PLAN
56	P104	GENERAL PLUMBING DETAILS
FIRE SYSTEM		
57	FP100	FIRE PROTECTION PLAN
58	FP101	FIRE PROTECTION_DETAILS
MECHANICAL DRAWINGS		
59	VAC 100	MECHANICAL SYSTEM PLAN
60	VAC101	MECHANICAL SYSTEM_DETAILS

PRELIMINARY PHASE 90%
NOT FOR CONSTRUCTION

GENERAL NOTES

1. THE PRECISE LOCATION OF ALL POWER, GAS, TELEPHONE, WATER AND DRAIN SHALL BE VERIFY IN FIELD. CONTRACTOR SHALL CONTRACT UTILITIES. LOCATE SHUT OFF VALVES AND PROCEED SAFELY ACCORDING TO THE RECOMMENDATION OF EACH UTILITY. CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED BY INTERRUPTION OF THESE LINES AT NO COST TO THE OWNER.

2. CONTRACTOR SHALL VISIT THE SITE AND VERIFY ALL CONDITIONS AND DIMENSIONS AND REPORT ALL DISCREPANCIES TO THE ARCHITECT, PROJECT MANAGER OR INSPECTOR PRIOR TO THE COMMENCEMENT OF WORK.

3. WHERE DIMENSIONS ARE UNCLEAR, CONSULT THE ARCHITECT, PROJECT MANAGER OR INSPECTOR. CONTRACTOR SHALL BE HELD RESPONSIBLE FOR HIS WORK. ALL DIMENSIONS SHALL BE FIELD VERIFIED WHERE POSSIBLE. ALL DIMENSIONS ARE FINISHES DIMENSIONS UNLESS OTHERWISE INDICATED. ALL NEW WINDOW AND DOOR OPENINGS MUST BE VERIFIED ON SITE FOR DIMENSIONS ACCURACY BEFORE ORDERING MATERIAL.

4. THE CONSTRUCTION DRAWINGS AND THE TECHNICAL SPECIFICATIONS ARE COMPLEMENTARY TO EACH OTHER. THE CONTRACTOR MUST ASSUME INFORCOMATION PRESENT IN EITHER AND IN BOTH DOCUMENTS.

5. THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, TOOLS AND EQUIPMENT NECESSARY TO COMPLETE THE BUILDING AS SHOWN. MATERIALS AND WORKMANSHIP SHALL BE OF THE HIGHEST QUALITY EMPLOYED BY THE RESPECTIVE TRADES. EACH SUB-CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING, REFINISHING ANY AND ALL EXISTING WORK ALTERED BY EITHER OPERATION.

6. CONTRACTOR AND HIS SUB-CONTRACTORS SHALL TURN THE PROJECT OVER TO OWNER FREE FROM ALL CONSTRUCTION DEBRIS AND CLEAN

7. CONTRACTOR SHALL REPLACE AND/OR REPAIR PAVEMENT, STRUCTURES OR EQUIPMENT DETERIORATED OR DAMAGED IN ANY WAY BY THE CONSTRUCTION PROCESS WETHER OR NOT SPECIFICALLY STATED IN THE DRAWINGS.

8. CONTRACTOR SHALL TAKE MAXIMUM PRECAUTIONS IN ORDER TO PREVENT DAMAGE TO EQUIPMENT OR ADJACENT PROPERTY AND AVOID INJURIES TO PERSONNEL AND PEOPLE.

9. IT IS UNDERSTOOD THAT WHILE NOT EVERY DETAIL OF THE WORK IS SHOWN ON THE DRAWINGS OR SPECIFICATIONS, THE WORK INCLUDES ITEM INFERABLE FROM THE CONTRACTOR DOCUMENT. THE OWNER SHALL NOT BE HOLD RESPONSIBLE FOR THE ABSENCE OF ANY DETAIL THE CONTRACTOR MAY REQUIRE FOR ANY CONSTRUCTION WHICH MAY BE FOUND NECESSARY AS THE WORK PROGRESS. IF ANY ITEM OR SYSTEM IS EITHER SHOWN OR SPECIFIED, ALL MATERIAL AND EQUIPMENT NORDGMALLY FURNISHED WITH SUCH ITEMS AND/OR NEED TO MAKE A COMPLETE OPERATION INSTALLATION, SHALL BE PROVIDED WETHER MENTIONED OR NOT, OMITTING ONLY SUCH PARTS AS ARE SPECIFICALLY EXCEPTED.

10. THE DRAWINGS HAVE BEEN PREPARED ON THE BASIS OF OBSERVATION OF EXISTING CONDITIONS. THE ARCHITECT ACCEPTS NO RESPONSIBILITY FOR CONCEALED SITE CONDITIONS.

11. PAINT: ALL SURFACE MUST BE SCRAPES, CLEANED, PRIMED BEFORE PAINTED. PAINT COLOR SCHEME TO BE SELECTED BY DESIGN AND CONSTRUCTION OFFICE COORDINATOR.

12. FURNISH GRAPHICS ON DRAWINGS ARE FOR SPACE DISTRIBUTION AND PLANNING PURPOSE, NOT PART OF PROJECT CONSTRUCTION, UNLESS IT IS MENTIONED TO BE REQUIRED.

LOCATION

OBTAINED FROM: GOOGLE EARTH IMAGE

CATASTRO : 358-032-072-01

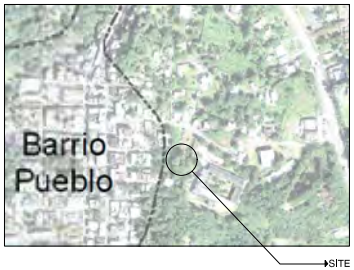
COORDENADAS: LAT: 18.04941608, LON: -67.05761236

TOPOGRAPHY

OBTAINED FROM: JUNTA DE PLANIFICACIÓN DE PUERTO RICO | GEOLOCALIZADOR- MIPR

JUNTA DE PLANIFICACIÓN. PROGRAMA DE SISTEMA DE INFORDMACIÓN GEOGRÁFICA | ESRI, HERE, GARDOMIN, INCREMENT P, NGA, USGS.

Calificación Oficializacion del geodato en proceso, favor de referirse al mapa de calificacion vigente.
Clasificación PT Oficializacion del geodato en proceso, favor de referirse al mapa de calificacion vigente.
Clasificación PUT SU (SUELO URBANO)



FLOOD MAP

OBTAINED FROM: FEMA FLOOD MAP SERVICE CENTER/MIPR

Zona Inund. Advisory

Zona Inundabilidad (firm) X (94.8%) , A (5.2%)
Panel Inundabilidad (advisory)

Floodway No ubica en floodway

Suelo JaC (54.0%) DeD (46.0%)

SUBMITTAL REVIEW

APPROVED

REVIEW AND/OR APPROVAL NEITHER EXTENDS NOR ALTERS ANY CONTRACTUAL OBLIGATIONS OF THE ARCHITECT OR CONTRACTOR. REFER TO THE GENERAL CONDITIONS OF THE CONTRACT AND/OR DIVISION 1 OF THE SPECIFICATION FOR A DESCRIPTION OF THIS SUBMITTAL RESPONSE AND THE CONTRACTUAL SIGNIFICANCE.

SUBMITTAL REVIEW

APPROVED AS NOTED

REVIEW AND/OR APPROVAL NEITHER EXTENDS NOR ALTERS ANY CONTRACTUAL OBLIGATIONS OF THE ARCHITECT OR CONTRACTOR. REFER TO THE GENERAL CONDITIONS OF THE CONTRACT AND/OR DIVISION 1 OF THE SPECIFICATION FOR A DESCRIPTION OF THIS SUBMITTAL RESPONSE AND THE CONTRACTUAL SIGNIFICANCE.

SUBMITTAL REVIEW

REVISE AND RESUBMIT

REVIEW AND/OR APPROVAL NEITHER EXTENDS NOR ALTERS ANY CONTRACTUAL OBLIGATIONS OF THE ARCHITECT OR CONTRACTOR. REFER TO THE GENERAL CONDITIONS OF THE CONTRACT AND/OR DIVISION 1 OF THE SPECIFICATION FOR A DESCRIPTION OF THIS SUBMITTAL RESPONSE AND THE CONTRACTUAL SIGNIFICANCE.

SUBMITTAL REVIEW

REJECTED

REVIEW AND/OR APPROVAL NEITHER EXTENDS NOR ALTERS ANY CONTRACTUAL OBLIGATIONS OF THE ARCHITECT OR CONTRACTOR. REFER TO THE GENERAL CONDITIONS OF THE CONTRACT AND/OR DIVISION 1 OF THE SPECIFICATION FOR A DESCRIPTION OF THIS SUBMITTAL RESPONSE AND THE CONTRACTUAL SIGNIFICANCE.

PROJECT ADDRESS:
ELDERLY SERVICE CENTER
CALLE FERROCARRIL #11 BO. PUEBLO,
LAJAS, P.R. 00667

GPS LATITUDE/LONGITUDE:
18.04941608, -67.05761236

OWNER
LAJAS MUNICIPALITY

REGISTER No.
358-032-072-01

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
--	--	--	--	--

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CERTIFICATION

I, WILLIAM MELENDEZ RIVAS, LIC. 16,883, CERTIFY THAT I AM THE PROFESSIONAL WHO [MADE, DESIGNED OR PREPARED] THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 14-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY" AND WITH THE [LAW NO. 319 OF MAY 15, 1938, AS AMENDED; ACT NO. 96 OF JULY 6, 1978, AS AMENDED; AS APPLICABLE]. I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY IGNORANCE OR NEGLIGENCE EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE OOPC.

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PROFESSIONAL GROUP
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Tel. (787) 918-5995 / 5991
Email: info@ingenium.group

SIGNATURE

William Melendez Rivas
Ingeniero
Lic. 16,883
Puerto Rico

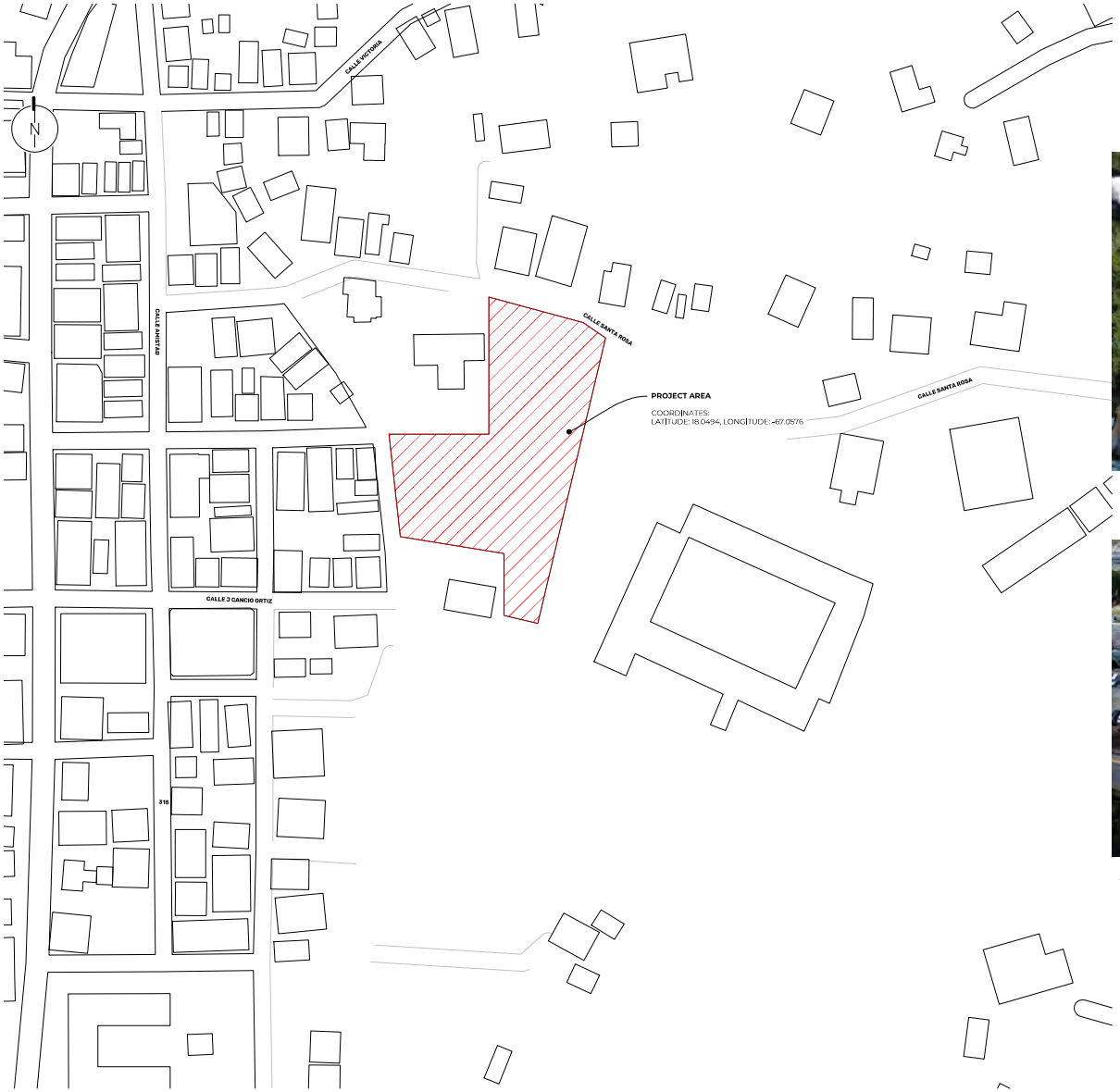
FILE

Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
TITLE SHEET

DRAWING No.
G100

GENERAL SITE PLAN



1 GENERAL SITE PLAN
SCALE: 1/64" = 1' - 0"

AERIAL VIEW

AERIAL VIEW

PROJECT ADDRESS
ELDERLY SERVICE CENTER
CALLE FERROCARRIL #11 BO. PUEBLO,
LAJAS, P.R. 00667

GPS LATITUDE/LONGITUDE:
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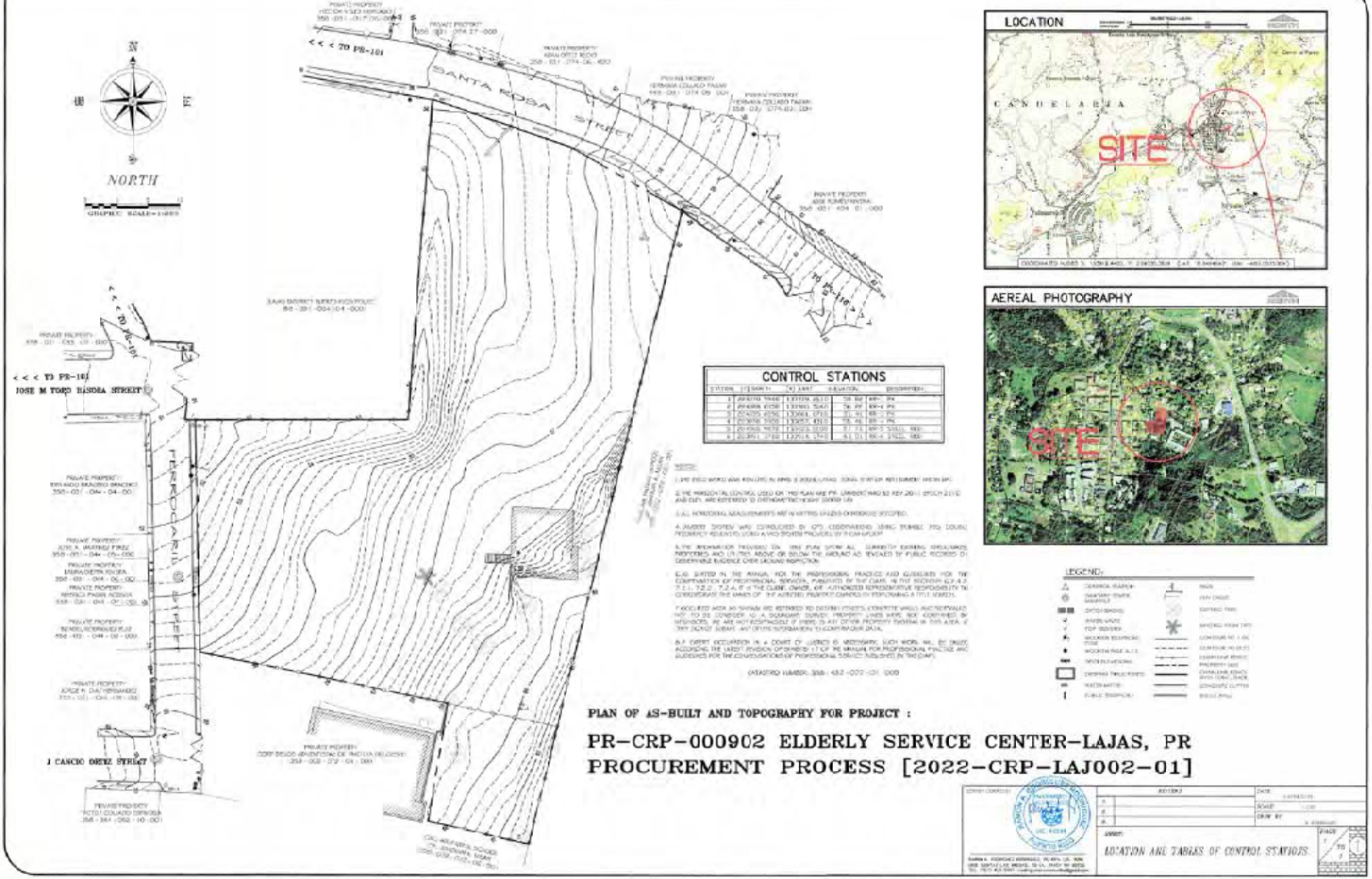
Email: info@ingenium.group

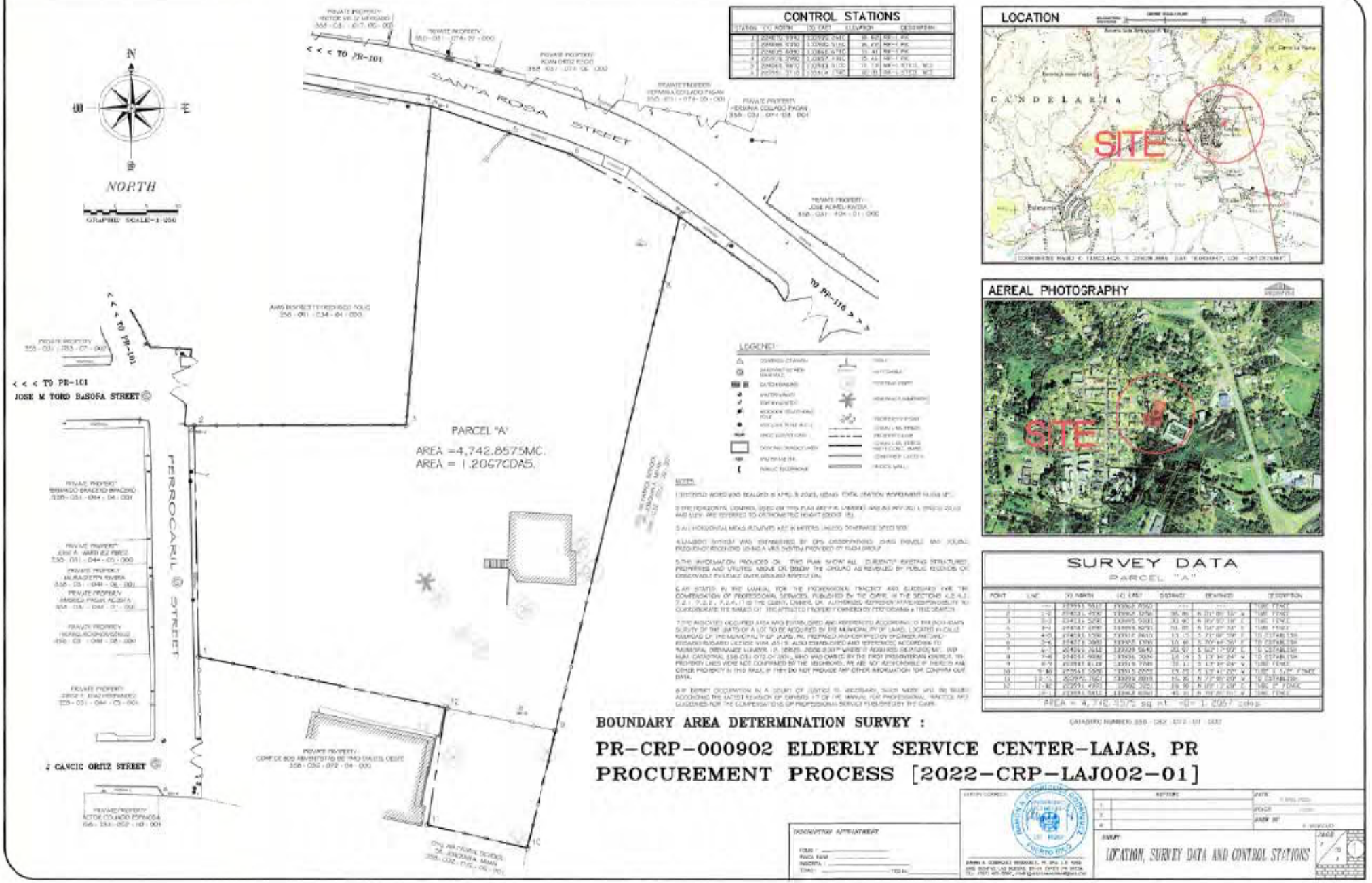
SIGNATURE
William Melendez Rivas
Ingeniero
Licenciado
Lic. 16,883
Puerto Rico

FILE
Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
GENERAL SITE PLAN

DRAWING No.
G101


NORTH
GRAPHIC SCALE=1:1000
SANTA ROSA STREET
<<< TO PR-101
<<< TO PR-101
JOSE M TORO ESCOBA STREET
FERROCARRIL STREET
J CANCIO DIEZ STREET
PRIVATE PROPERTY
PRIVATE PROPERTY
PRIVATE PROPERTY



CONTROL STATIONS				
STATION	(Y) NORTH	(X) EAST	ELEVATION	DESCRIPTION
1	224815.9990	330729.2510	35.62	NAIL PK
2	224886.5230	330983.5110	36.47	NAIL PK
3	224825.5090	331064.6710	35.41	NAIL PK
4	225015.2980	331057.1310	35.45	NAIL PK
5	224963.3970	330983.5100	33.78	NAIL SCRIBE "BC"
6	225051.3110	330814.1420	40.35	NAIL SCRIBE "BC"

LOCATION

AEREAL PHOTOGRAPHY

SURVEY DATA
PARCEL "A"

POINT	LINE	(Y) NORTH	(X) EAST	DISTANCE	BEARINGS	DESCRIPTION
1		224815.9990	330729.2510			POINT OF BEGINNING
2	1-2	224833.4747	330960.1256	231.86	N 01° 05' 10" W	LINE TO POINT 2
3	2-3	224826.5090	330995.5081	35.46	S 11° 32' 18" E	LINE TO POINT 3
4	3-4	224847.6980	330995.8078	21.85	S 01° 07' 32" E	LINE TO POINT 4
5	4-5	224851.5390	330917.2610	78.57	S 01° 08' 59" W	LINE TO POINT 5
6	5-6	224873.3980	330905.1390	25.18	S 25° 44' 50" W	LINE TO POINT 6
7	6-7	224906.2610	330929.5840	40.50	S 54° 11' 59" W	LINE TO POINT 7
8	7-8	224951.4980	330936.3080	45.39	S 11° 36' 24" W	LINE TO POINT 8
9	8-9	225187.6120	330919.7780	236.11	S 11° 36' 24" W	LINE TO POINT 9
10	9-10	225257.2090	330911.2090	70.28	S 11° 36' 24" W	LINE TO POINT 10
11	10-11	225290.7001	330919.0915	34.35	S 77° 51' 09" W	LINE TO POINT 11
12	11-12	225291.4901	330882.2952	36.90	N 01° 12' 58" E	LINE TO POINT 12
1	12-1	225091.5810	330882.8260	199.91	N 01° 05' 10" E	LINE TO POINT 1

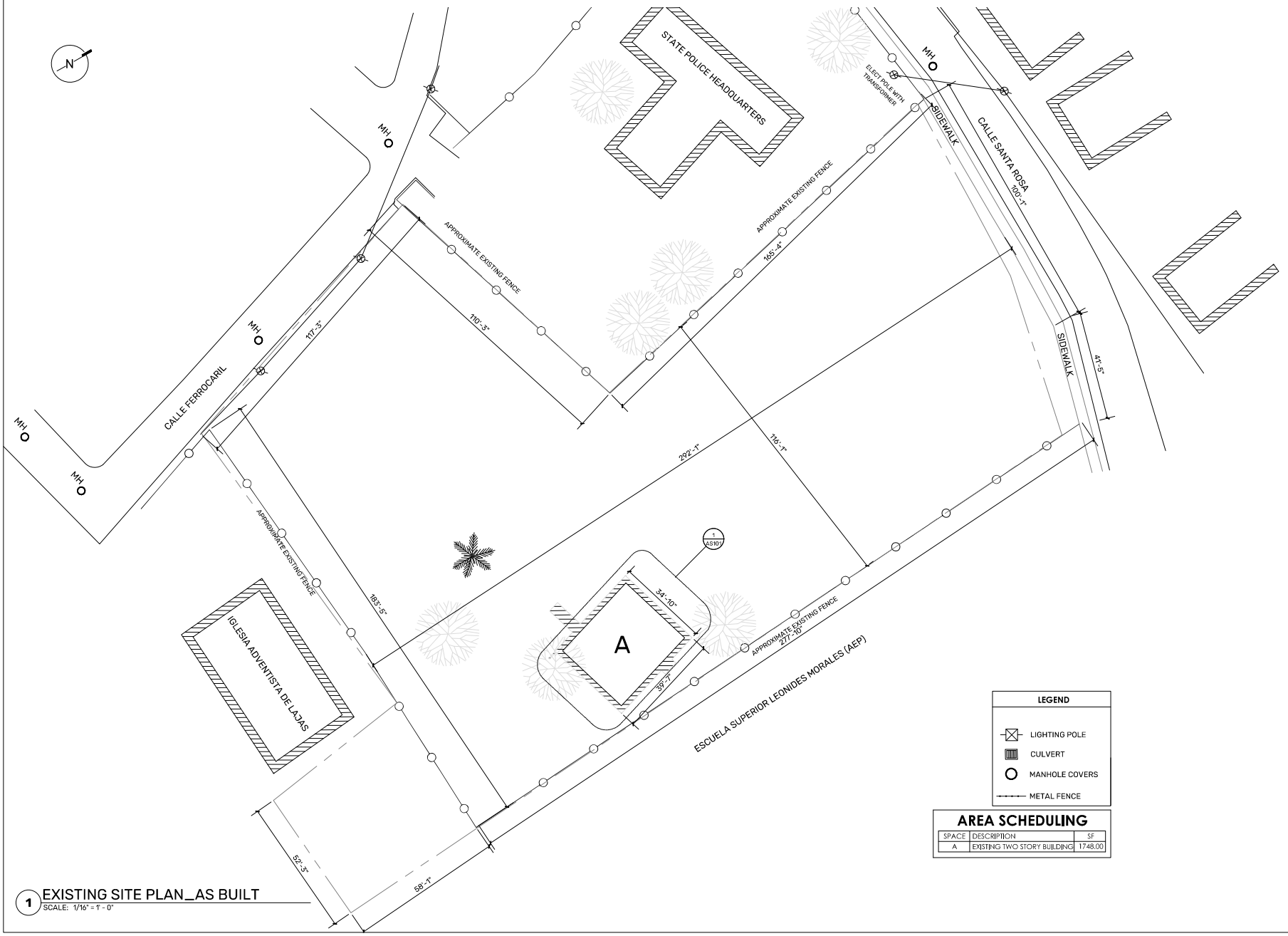
AREA = 4,742.8575 sq mt +/- 1.2067 cdas.

CATASTRO NUMBERS 358 - 062 - 011 - 01 - 000

REVISIONS		DATE
1		
2		
3		
4		

SHEET: LOCATION, SURVEY DATA AND CONTROL STATIONS

SHEET 1 OF 1



AREA SCHEDULING

SPACE	DESCRIPTION	SF
A	EXISTING TWO STORY BUILDING	1748.00

1 EXISTING SITE PLAN_AS BUILT
SCALE: 1/16" = 1' - 0"

PROJECT ADDRESS
ELDERLY SERVICE CENTER
CALLE FERROCARRIL #11 BO. PUEBLO,
LAJAS, P.R. 00667

GPS LATITUDE/LONGITUDE:
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OWNER
LAJAS MUNICIPALITY

REGISTER No.
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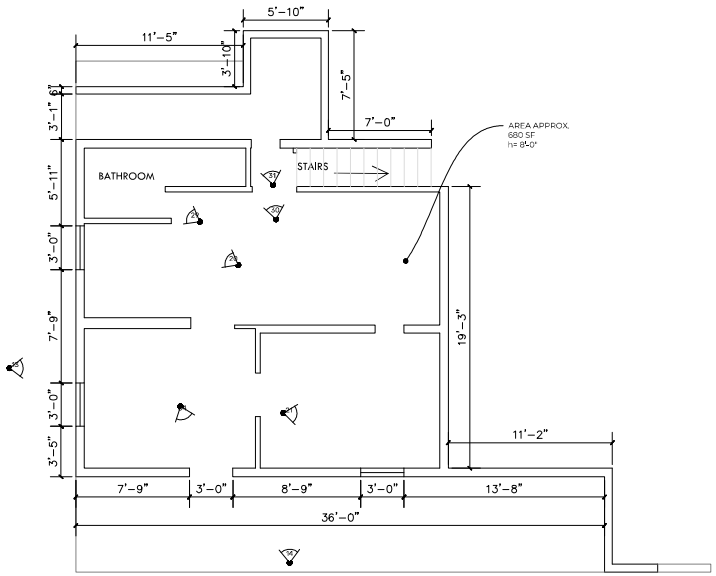
SIGNATURE
William Melendez Rivas, Ingeniero, Licenciado, Lic. 16,883, Puerto Rico

FILE
Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

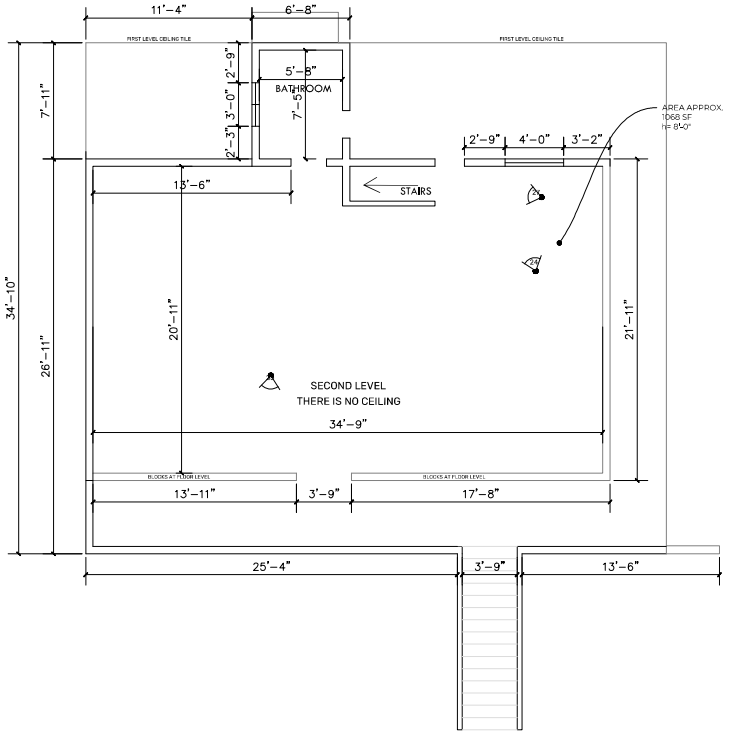
TITLE
EXISTING SITE PLAN_AS BUILT

DRAWING No.
AS100

E X I S T I N G G R O U N D F L O O R P L A N _ A S B U I L T



EXISTING GROUND FLOOR PLAN_BLDG "A"
SCALE: 1/4" = 1' - 0"



EXISTING FIRST FLOOR PLAN_BLDG "A"
SCALE: 1/4" = 1' - 0"

PROJECT ADDRESS
ELDERLY SERVICE CENTER
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LAJAS, P.R. 00667

GPS LATITUDE/LONGITUDE:
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OWNER
LAJAS MUNICIPALITY

REGISTER No.
3 5 8 - 0 3 2 - 0 7 2 - 0 1

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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SIGNATURE
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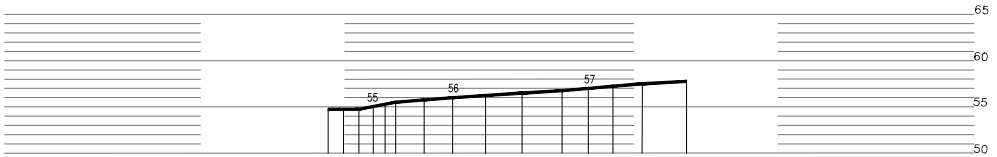
FILE
Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
EXISTING GROUND FLOOR PLAN_AS BUILT

DRAWING No.
AS101

E X I S T I N G S I T E P R O F I L E S



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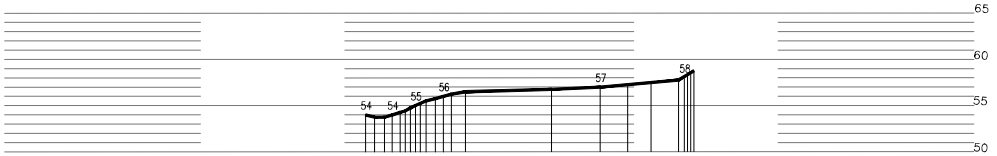

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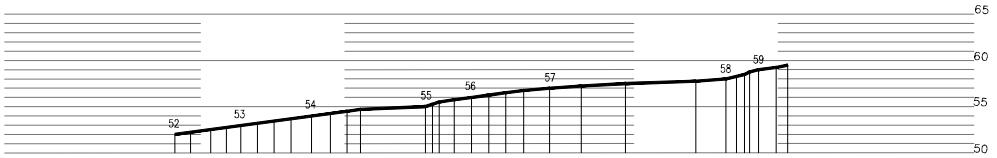

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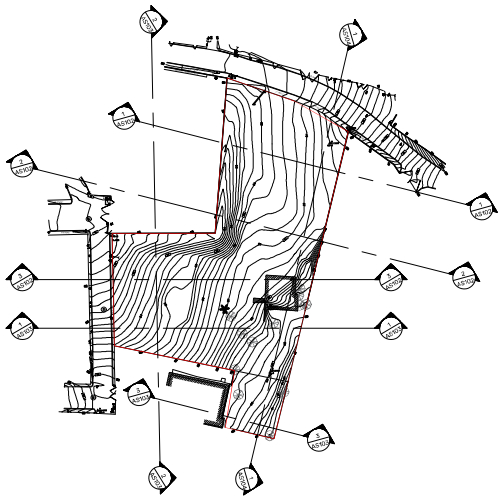

PROJECT ADDRESS
PR-CRP-001058
NUEVO CENTRO RECREATIVO MULTIFUNCIONAL.
PR-8860, ST. JUST, TRUJILLO ALTO, PUERTO RICO.

GPS LATITUDE/LONGITUDE:
18.358823, -66.001789

OWNER
TRUJILLO ALTO MUNICIPALITY

REGISTER No.
1 1 5 - 0 5 0 - 7 4 9 - 0 2

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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IMPORTANT NOTES TO THE CONTRACTOR:

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE PROCEEDING WITH WORK. IF ANY DISCREPANCIES, ERRORS OR OMISSIONS SHOULD BE ENCOUNTERED ON PLANS, CONTRACTOR SHALL NOTIFY THE ENGINEER BEFORE ANY PART OF THE WORK IS STARTED SO THAT PROPER CORRECTIONS ARE MADE. IF ENGINEER IS NOT NOTIFIED PRIOR TO COMMENCING OF THE WORK, ALL DESIGNS AND DRAWINGS HEREIN AND PRINTS ISSUED BY THE ENGINEER ARE THE PROPERTY OF THE ENGINEER AND SHALL NOT BE REUSED ON ANY OTHER LOCATION EXCEPT THE ONE FOR WHICH THEY EXPRESSLY DESIGNED. IF THESE DRAWINGS OR ANY PART THEREOF IS REPRODUCED WITHOUT THE CONSENT OF THE ENGINEER, THE PERSON WHO IS DOING WILL BE INCERTED TO THE ENGINEER FOR HIS FULL COMMISSION. CONTRACTOR SHALL NOT USE FOR CONSTRUCTION PURPOSES ANY DRAWINGS THAT WERE ADVANCE TO HIM PRIOR TO THE BEGINNING OF CONSTRUCTION. ALL PLANS BEING USED BY CONTRACTOR SHOULD HAVE A LABEL SAYING "FOR CONSTRUCTION ONLY" SIGNED AND SEALED BY THE ENGINEER.

CERTIFICATION

I, WILLIAM MELENDEZ RIVAS, LIC. 16383, CERTIFY THAT I AM THE PROFESSIONAL WHO [MADE, DESIGNED OR PREPARED] THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 14-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY" AND WITH THE [LAW NO. 319 OF MAY 15, 1938, AS AMENDED, ACT NO. 96 OF JULY 6, 1978, AS AMENDED, AS APPLICABLE]. I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY IGNORANCE OR NEGLIGENCE, EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE COPE.

INGENIUM PROFESSIONAL GROUP
664 Ave. Munoz Rivera - Suite 1838
604 Plaza San Juan, PR 00738
Tel (787) 918-5892 / 5891
email info@ingenium.group

SIGNATURE

FILE

Dwg Name: INGENIUM GROUP

Drawn by: INGENIUM GROUP

Revised by: ING. WILLIAM MELENDEZ

Plot Scale: AS SHOWN

Progress Print:

TITLE

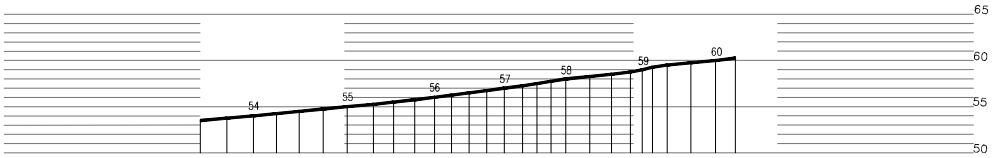
EXISTING SITE PROFILES

DRAWING No.

AS102

PAGE: 7/89

E X I S T I N G S I T E P R O F I L E S



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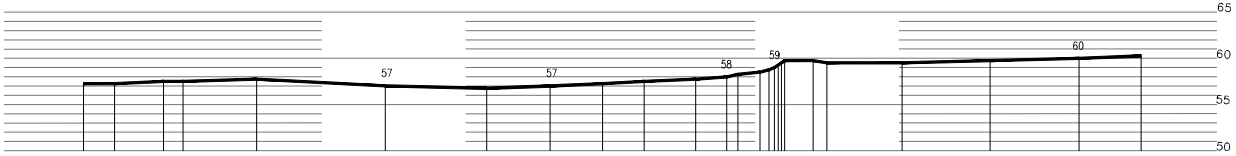

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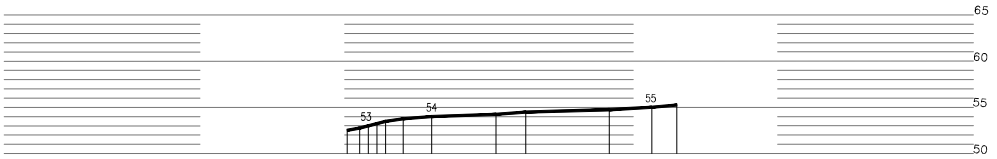

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EXISTING SITE PROFILES
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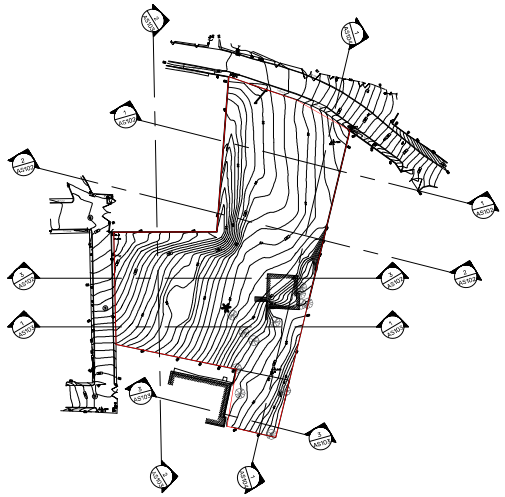

PROJECT ADDRESS
PR-CRP-001058
NUEVO CENTRO RECREATIVO MULTIFUNCIONAL.
PR-8860, ST. JUST, TRUJILLO ALTO, PUERTO RICO.

GPS LATITUDE/LONGITUDE:
18.358823, -66.001789

OWNER
TRUJILLO ALTO MUNICIPALITY

REGISTER No.
1 1 5 - 0 5 0 - 7 4 9 - 0 2

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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CERTIFICATION

I, WILLIAM MELENDEZ RIVAS, L.C. 16383, CERTIFY THAT I AM THE PROFESSIONAL WHO [MADE, DESIGNED OR PREPARED] THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 14-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY" AND WITH THE LAW NO. 319 OF MAY 15, 1938, AS AMENDED, ACT NO. 96 OF JULY 6, 1978, AS AMENDED, AS APPLICABLE. I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY IGNORANCE OR NEGLIGENCE EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE COPE.

INGENIUM PROFESSIONAL GROUP
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654 Plaza San Juan, PR 00738
Tel (787) 918-5892 / 5891
Email info@ingenium.group

SIGNATURE

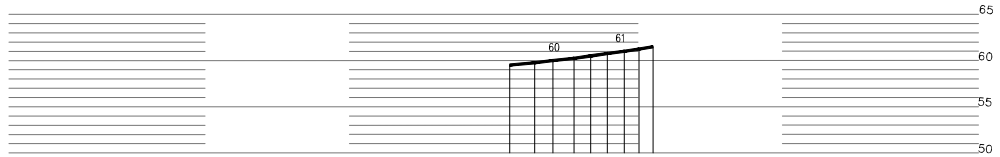
FILE

Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
EXISTING SITE PROFILES

DRAWING No.
AS103

E X I S T I N G S I T E P R O F I L E S



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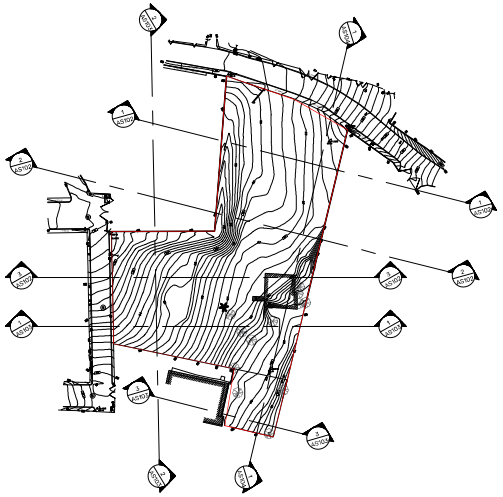

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PROJECT ADDRESS:
PR-CRP-001056
NUEVO CENTRO RECREATIVO MULTIFUNCIONAL,
PR-8860, ST. JUST, TRUJILLO ALTO, PUERTO RICO.

GPS LATITUDE/LONGITUDE:
18.358823, -66.001789

OWNER
TRUJILLO ALTO MUNICIPALITY

REGISTER No.
115-050-749-02

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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INGENIUM PROFESSIONAL GROUP
654 Ave. Munoz Rivera - Suite 1938
654 Plaza, San Juan, PR 00738
Tel.(787) 918-5892 / 5891
Email: info@ingenium.group

SIGNATURE

FILE
Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
EXISTING SITE PROFILES

DRAWING No.
AS104

P H O T O D O C U M E N T A T I O N

| FOR MORE LOCATION DETAIL SEE AS2.1

| FOR MORE LOCATION DETAIL SEE AS2.1

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| FOR MORE LOCATION DETAIL SEE AS2.1

PROJECT ADDRESS
ELDERLY SERVICE CENTER
CALLE FERROCARRIL #11 BO. PUEBLO,
LAJAS, P.R. 00667

GPS LATITUDE/LONGITUDE:
18.04941608, -67.05761236

OWNER
LAJAS MUNICIPALITY

REGISTER No.
358-032-072-01

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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I, WILLIAM MELENDEZ RIVAS, LIC. 16883, CERTIFY THAT I AM THE PROFESSIONAL WHO MADE, DESIGNED OR PREPARED THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 14-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY" AND WITH THE (LAW NO. 319 OF MAY 15, 1938, AS AMENDED; ACT NO. 96 OF JULY 6, 1978, AS AMENDED; AS APPLICABLE). I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY IGNORANCE OR NEGLIGENCE EITHER BY ME, MY AGENTS OR EMPLOYEES OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE OGPE.

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664 Ave. Muñoz Rivera - Suite 1838
654 Plaza, San Juan, PR 00918
Tel. (787) 756-5810 ext 3001
Email: info@ingenium.group

SIGNATURE

William Melendez Rivas, Ingeniero, Licencia, Lic. 16883, Puerto Rico

FILE

Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE

PHOTO DOCUMENTATION

DRAWING No.

GR100

P R O P O S E D D E M O L I T I O N S I T E P L A N

DEMOLITIONS NOTES:

THE INFORMATION CONTAINED WITHIN THE DRAWINGS OF EXISTING CONDITIONS AND DEMOLITION REQUIRED ARE INCLUDED AS A GENERAL GUIDE TO THE SCOPE OF WORK. THIS INFORMATION IS NOT A DETAILED STUDY OF EXISTING CONDITIONS OR THE DEMOLITION. THE GENERAL CONTRACTOR SHALL MAKE USE OF THESE DRAWING AND INFORMATION AS A TOOL FOR WORKING TO ESTABLISH A WORK PLAN.

1. CONTRACTOR SHOULD MAKE A SELECTIVE DEMOLITION WORK AND FOLLOW ALL SUGGESTIONS AND STANDARDS OF THE GOVERNMENT REGULATIONS. CONTRACTOR SHOULD COORDINATE AND BE UP TO DATE WITH ALL COMPLIANCE MENTIONED.
2. PROPOSED EROSION AND SEDIMENTATION CONTROL PLAN SHALL BE IMPLEMENTED BY THE CONTRACTOR PRIOR TO DEMOLITION ACTIVITIES.
3. CONTRACTOR SHALL IMPLEMENT SAFETY MEASURES DURING DEMOLITION ACTIVITIES TO AVOID ANY TYPE OF ACCIDENT AND DAMAGES TO NEARBY PROPERTIES AROUND THE PROJECT SITE AND THE EXISTING UNDERGROUND UTILITIES TO REMAIN.
4. AREAS SHOWN ON PLAN TO BE DEMOLISHED SHALL BE PROMPTLY REMOVED BUT COORDINATION WITH THE ENGINEERS SHOULD BE MADE PRIOR TO DEMOLITION NOT WITH STANDING, AFFECTED OR DAMAGED ASPHALT, CONCRETE, CURB & GUTTERS, PIPES AND OTHERS BY THE CONTRACTOR, WHICH ARE LOCATED OUTSIDE OF PROJECT LIMIT SHALL BE RECONSTRUCTED IMMEDIATELY.
5. SOME OF THE EXISTING UTILITIES WITHIN PROJECT LIMITS, EXCEPT THOSE INDICATED TO REMAIN, SHALL BE DEMOLISHED AND DISPOSED IN COORDINATION WITH THE ENGINEERS TAKING IN CONSIDERATION THE NEEDS DURING THE DIFFERENT STAGES OF THE DEMOLITION AND THE CONSTRUCTION PHASES.
6. INFORMATION AND NOTES SHOWN ON THE DRAWINGS OR OTHER INFORMATION INADVERTENT OMISSION DOES NOT RELIEVE THE CONTRACTOR GENERAL LIABILITY TO VISIT AND INSPECT THE SITE AND REPORTS OF ALL EXISTING SITE CONDITIONS TO INCLUDE ALL COSTS REQUIRED IN THE PROPOSAL TO COVER ALL DEMOLITION TO COMPLETE THE CONSTRUCTION WORK, AS SHOWN ON THE CONSTRUCTION DOCUMENTS.
7. THE CONTRACTOR SHOULD CHECK WITH THE OWNER PRIOR TO ANY DEMOLITION, ANY AREA OUTSIDE THE LIMITS OF AGREEMENT REQUIRING WORK.
8. THE CONTRACTOR SHALL VISIT AND INSPECT THE ENTIRE AREA OF WORK AND FAMILIARIZE WITH THE EXISTING CONDITIONS.
9. ANY MISCELLANEOUS ELEMENT IN THE DEFINED WORK AREA WHICH HAS NOT BEEN DIRECTLY COVERED BY THE DRAWINGS, WILL BE REMOVED TO PROVIDE A CLEAN SURFACE LEVEL.
10. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE REMOVAL AND LEGAL DISPOSITION (REGULATION) OF DEBRIS OF THE PROJECT. THE GARBAGE CONTAINERS AND RAIN WATERS SYSTEM OF THE OWNER WILL NOT BE USED, THE CONTRACTOR IS RESPONSIBLE OF PROVIDING HIS OWN GARBAGE AND COMPLY WITH THE GENERAL CONDITIONS OF CONTRACTING.
11. THE DEMOLITIONS AN REMOVAL SHOULD BE MADE SAFE, NEAT, CLEAN. THE AREAS MUST BE CLEAN.
12. THE DEMOLITION AND REMOVAL MUST FOLLOW ALL APPLICABLE LAWS AND CODES IN ORDER TO AVOID INJURY TO PERSONS AND/OR ANY PROPERTY DAMAGE.
13. ONCE COMPLETED THE DEMOLITION , THE AREA SHOULD BE CLEAN OF DEBRIS BEFORE THE NEW CONSTRUCTION BEGINS.
14. ANY OBJECT THAT CAN BE REUSED AND DETERMINED BY THE OWNER SHOULD BE CAREFULLY REMOVED, CLEANED AND STORED IN AN AREA DESIGNATED BY THE OWNER.

GENERAL DEMOLITIONS NOTES:

A. THE STRUCTURES TO BE DEMOLISHED CAN BE MODIFIED BY THE DESIGNER.

B. PROTECTION: PROVIDE HALLWAY IF NECESSARY TO ENSURE THE SAFE PASSAGE OF PERSONS AROUND THE AREA OF DEMOLITION. CONDUCT OPERATIONS TO PREVENT DAMAGE BY FALLING DEBRIS OR OTHER TO ADJACENT BUILDINGS STRUCTURES AND OTHER FACILITIES AS WELL AS PERSONS.

C. DAMAGES: PROMPTLY REPAIR DAMAGES CAUSED TO ADJACENT FACILITIES BY DEMOLITIONS OPERATIONS, AS DIRECTED BY THE ARCHITECT AND AT NO COST TO THE OWNER.

D. PARTIAL STRUCTURES DEMOLITION: DEMOLISH PARTS AS INDICATED AND REMOVE FROM THE SITE AS REQUIRED TO COMPLETE THE WORK.

E. REMOVE FROM SITE ALL DEBRIS, RUBBLE AND OTHER MATERIAL RESULTING FROM DEMOLITION. STORAGE OR SALE OF REMOVED MATERIALS WILL NOT BE ALLOWED ON SITE.

NOTES TO THE CONTRACTOR:

I-THE CONTRACTOR WILL BE RESPONSIBLE FOR THE PRESENT AND FUTURE DAMAGES CAUSED TO THE PUBLIC AND PRIVATE PROPERTY BY THE CONSTRUCTION OF THIS PROJECT.

II-THE CONTRACTOR MUST VERIFY THE MEASURES BEFORE STARTING THE WORKS AND NOTIFY THE SUPERVISORY ENGINEER ANY DIFFERENCE IN THE SAME WITH RELATION TO THOSE INDICATED IN THE DRAWINGS.

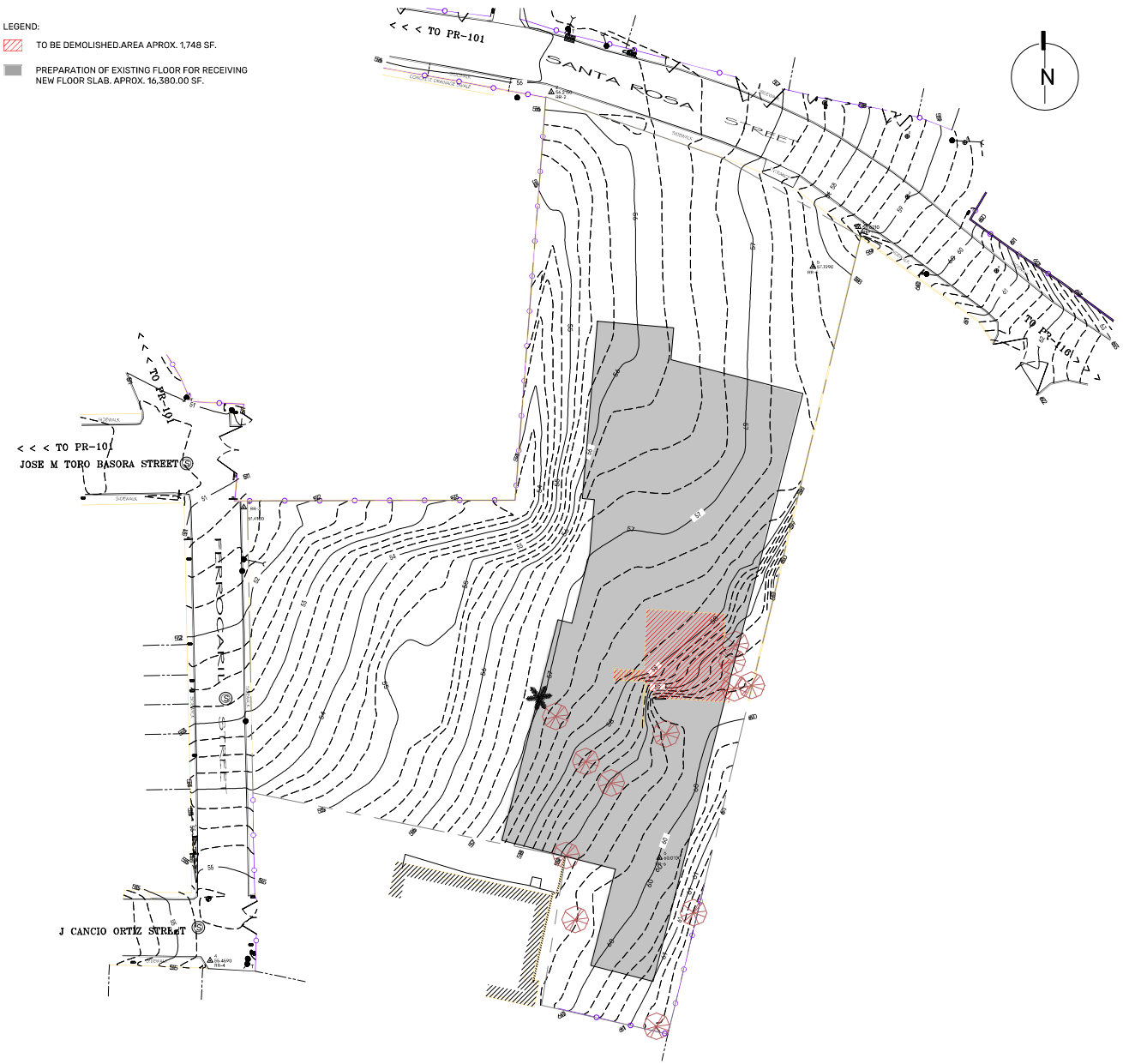
III-THE CONTRACTOR WILL AT ALL TIMES TAKE ALL NECESSARY AND REASONABLE PRECAUTIONS FOR THE SAFETY OF ITS EMPLOYEES AND GENERAL PUBLIC AND COMPLY WITH ALL APPLICABLE LAWS AND REQUIREMENTS FOR THE OCCUPATIONAL SAFETY OF PUERTO RICO ACCORDING TO O.S.H.A. AND THEIR REQUIREMENTS FOR CONSTRUCTION WORKERS

IV-CAUTION SHALL BE TAKEN AS A USE OF FENCE, WOODEN BOARDS AND/OR OTHER MEANS FOR THE SAFETY OF ADJACENT PERSONS AND/OR PROPERTIES.

LEGEND:

TO BE DEMOLISHED.AREA APROX. 1,748 SF.

PREPARATION OF EXISTING FLOOR FOR RECEIVING NEW FLOOR SLAB. APROX. 16,380.00 SF.



1 PROPOSED DEMOLITION PLAN

SCALE: 1:300

PROJECT ADDRESS
ELDERLY SERVICE CENTER
CALLE FERROCARRIL #11 BO. PUEBLO.
LAJAS, P.R. 00667

GPS LATITUDE/LONGITUDE:
18.04941608, -67.05761236

OWNER
LAJAS MUNICIPALITY

REGISTER No.
3 5 8 - 0 3 2 - 0 7 2 - 0 1

REVISIONS

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CERTIFICATION

I, WILLIAM MELENDEZ RIVAS, LIC. 16383, CERTIFY THAT I AM THE PROFESSIONAL WHO MADE, DESIGNED OR PREPARED THESE PLANS AND THE CORRESPONDENTS SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 14-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY" AND WITH THE [LAW NO. 319 OF MAY 15, 1938, AS AMENDED, ACT NO. 96 OF JULY 5, 1978, AS AMENDED, AS APPLICABLE]. I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY IGNORANCE OR NEGLIGENCE, EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE COPE.

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William Melendez Rivas, Lic. 16383, Puerto Rico

FILE

Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE

PROPOSED DEMOLITION SITE PLAN

DRAWING No.

C100

PAGE: 11/89

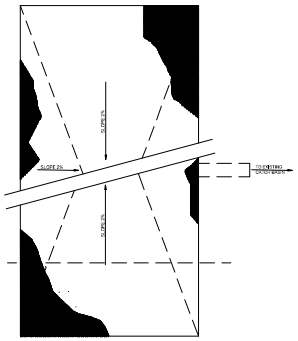
D E M O L I T I O N T Y P I C A L D E T A I L S

GENERAL EROSION & SEDIMENTS CONTROL NOTES

1 ALL CONSTRUCTION OF EROSION AND SEDIMENT CONTROL SHALL COMFORM TO EQB (JCA - JUNTA DE CALIDAD AMBIENTAL) STANDARDS AND AS DESCRIBED HEREIN.
2 AREAS TO BE GRADED SHALL BE CLEARED AND GRUBBED IN ACCORDANCE WITH SPECIFICATIONS. PRESERVE AND PROTECT ALL EXISTING GROUND VEGETATION AND TREES OUTSIDE OF THE CONSTRUCTION LIMITS OR SPECIFICALLY DESIGNATED TO REMAIN.
3 ALL EROSION CONTROL MEASURES SHALL BE PLACED IMMEDIATELY FOLLOWING SITE CLEARING AND GRUBBING AS SHOWN ON THE DRAWING. NO GRADING SHALL BE DONE UNTIL SILT BARRIER INSTALLATION IS COMPLETED.
4 TOPSOIL SHALL BE REMOVED, STOCKPILED, AND SEEDED IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS.
5 THE CONSTRUCTION AREA SHALL BE ROUGH GRAPPED AS SHOWN ON THE DRAWING.
6 DIVERSION DITCHES, SWALES, AND SLOPES SHALL BE CONSTRUCTED AND GRASSED AS SOON AS POSSIBLE TO MINIMIZE EROSION. RIP RAP SHALL BE PLACED AS SHOWN ON THE PLANS AND AS REQUIRED.

GRAVEL CONSTRUCTION ENTRANCE NOTES

1 **STONE SIZE** - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2 **THICKNESS** - NOT LESS THAN 6".
3 **WIDTH** - 10' MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
4 **SURFACE WATER**- ALL SURFACE WATER FLOWING OF DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL A MOUNTABLE BERM WITH 5:1 SLOPE WILL BE PERMITED.
5 **MAINTENANCE** - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OF FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS -OF- WAY REQUIRED PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEAMOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS -OF- WAY MUST BE REMOVED IMMEDIATELY.
6 **WASHING** - WHEEL SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS -OF- WAY.
7 PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

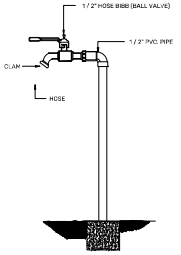


PLAN

SECTION A

1 VEHICLE TIRE WASHING PAD

SCALE: NOT TO SCALE

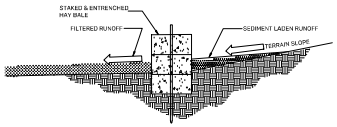


2 TEMPORARY HOSE BIBB INSTALLATION DETAIL

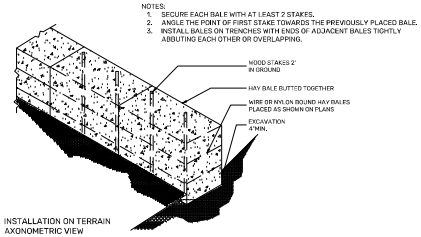
SCALE: NOT TO SCALE

DEMOLITION NOTES

1		**GENERAL**
	1.1	CONTRACTOR MUST BE BECOME FAMILIAR WITH THE PROJECT, THE INTENTION OF THE CONSTRUCTION DOCUMENTS AND THE ARCHITECTS DESIGN IN ORDER TO CARRY OUT SELECTIVE DEMOLITION WORK IN A MANNER THAT IS CONDUCTIVE TO PROPER EXECUTION OF THE PROJECT. IT IS RESPONSIBILITY OF THE CONTRACTOR TO VISIT THE PROJECT ARE BEFORE BIDDING, TO BECOME ACQUAINTED WITH THE SCOPE OF DEMOLITION WORK.
	1.2	DEMOLITION NOTES AND DRAWINGS ARE A GENERAL GUIDE TO THE PROJECT, THE CONTRACTOR IS RESPONSIBLE FOR THE SATISFACTORY COMPLETION OF THE WORK IN A MANNER THAT INVOLVES NO EXTRA COST TO THE OWNER.
	1.3	CONSTRUCTION AREA SHALL BE KEPT CLEAN AND SAFE. DISPOSE OF DEBRIS DAILY AND CLEAN AREAS OF WORK UPON COMPLETION.
	1.4	CONTRACTOR SHALL COMPLY WITH ALL ENVIRONMENTAL AND SAFETY REGULATIONS CONCERNING DEMOLITION WORK, INCLUDING O.S.H.A REQUIREMENTS.
	1.5	CONTRACTOR SHALL NOTIFY THE ARCHITECT IF ANY EXISTING CONDITIONS DISCOVERED DURING THE DEMOLITION PHASE AFFECTS THE PROPOSED CONSTRUCTION PROJECT.
	1.6	THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL OF ALL SALVAGEABLE ITEMS.
	1.7	ALL MATERIALS REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE SPECIFICALLY DESIGNATED TO REMAIN THE PROPERTY OF THE OWNER.
2		**SCOPE**
	2.1	ALL CONSTRUCTION INDICATED TO BE DEMOLISHED SHALL BE REMOVED IN THEIR ENTIRETY INCLUDING FOUNDATION AND ALL ELECTRICAL AND MECHANICAL FACILITIES.
	2.2	REMOVE TREES TO BE ELIMINATED AS INDICATES.
	2.3	REMOVE ROOT SYSTEM TO A MINIMUM DEPTH OF 3'-0" FOR TREES 5'-0" OR FARTHER FROM PROJECTED BUILDING OUTLINE. REMOVE ROOT SYSTEM TO A MINIMUM DEPTH OF 5'-0" FOR TREES WITHIN 5'0" OF PROJECTED BUILDING OUTLINE.
	2.4	ALL SANITARY PIPING CONNECTING THE EXISTING CONSTRUCTION TO AAA FACILITIES SHALL BE REMOVED PIPING WITHIN THE PROPERTY AND CONNECTION TO THE AAA PIPE SHALL BE PROPERLY ELIMINATED IN A MANNER CONDUCIVE TO APPROVAL BY AAA PERSONNEL.
	2.5	ALL ELECTRICAL EQUIPMENT AND CONNECTIONS SHALL BE PROPERLY ELIMINATED IN A MANNER THAT IS CONDUCTIVE TO APPROVAL BY AEE PERSONNEL. ALL ELECTRICAL DEMOLITION SHALL BE PERFORMED BY OR UNDER THE SUPERVISION OF A LICENSED ELECTRICIAN. ALL ELECTRICAL WORK SHALL CONFORM TO ALL APPLICABLE REGULATION.
	2. 6	CONTRACTOR SHALL PROVIDE BACKFILL TO ALL EXCAVATIONS LEFT AFTER DEMOLITION IN AREAS NEAR STREET AND ADJOINING PROPERTIES IN ORDER TO GUARANTEE THE STRUCTURAL INTEGRITY OF EXISTING CONSTRUCTION. BACKFILL SHALL BE SIMILAR IN TYPE AND DENSITY TO EXISTING SOIL AND DEPOSITED ACCORDING TO ACCEPTABLE ENGINEERING STANDARDS, UNDER THE SUPERVISION OF A LICENSED ENGINEER. THE CONTRACTOR SHALL NOTIFY THE DESIGNER IF ANY PRECAUTIONS OR ADDITIONAL WORK NEEDS TO BE PERFORMED IN ORDER TO COMPLY WITH THIS REQUIREMENT.
3		**PROTECTION AND DAMAGE**
	3.1	PROTECT ITEMS NOT BEING REMOVED FROM DAMAGE DURING DEMOLITION.
	3. 2	PROTECT ALL ADJACENT PROPERTY FROM DAMAGE DURING DEMOLITION.
	3. 3	CONTRACTOR SHALL NOTIFY THE ARCHITECT IF DEMOLITION WORK APPEARS TO AFFECT THE STRUCTURAL INTEGRITY OF ANY EXISTING BUILDING BEFORE PROCEEDING.
	3. 4	THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO EXISTING FACILITIES TO REMAIN RESULTING FROM WORK UNDER THIS CONTRACT, AND SHALL RESTORE SUCH DAMAGE TO IT'S ORIGINAL CONDITION.
	3. 5	COORDINATE WITH NEIGHBORS IF ANY LABOR REQUIRES DISTURBANCE OF ADJACENT PROPERTY.
4		**DISPOSAL AND DOCUMENTATION**
	4.1	DISPOSE OF ALL REFUSE AND CONSTRUCTION DEBRIS IN LEGAL DUMP SITES AND PROVIDE ARCHITECT WITH DOCUMENTATION REGARDING PLACE OF DISPOSAL, MATERIALS DISPOSED, QUANTITY AND DATE. PAYMENT OF ALL DISPOSAL FEES IS THE RESPONSIBILITY OF THE CONTRACTOR AND ALL QUANTITIES ARE PART OF THE CONTRACT.
	4. 2	DISPOSAL OF REFUSE AND CONSTRUCTION DEBRIS IN ILLEGAL LOCATIONS WILL BE CONSIDERED A GRAVE OFFENSE AND REASON FOR IMMEDIATE TERMINATION OF CONSTRUCTION CONTRACT.



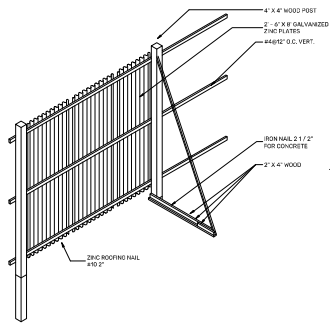
SECTION VIEW



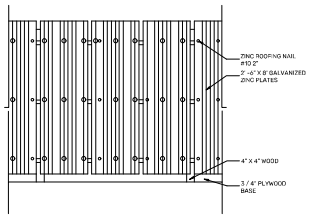
INSTALLATION ON TERRAIN
AXONOMETRIC VIEW

3 HAY BALE ANCHORING DETAILS

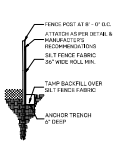
SCALE: NOT TO SCALE



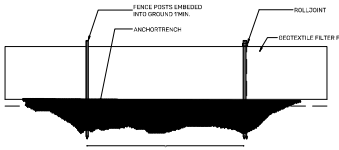
AXONOMETRIC VIEW



ELEVATION VIEW

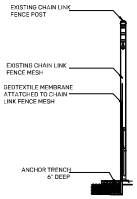


SECTION



ELEVATION

WOOD POST TOP VIEW



4 SILT FENCE DETAILS

SCALE: NOT TO SCALE

5 ALTERNATIVE SILT FENCE INSTALLATION DETAIL

SCALE: NOT TO SCALE

6 TEMPORARY FENCE DETAILS

SCALE: NOT TO SCALE

PROJECT ADDRESS
ELDERLY SERVICE CENTER
CALLE PERROCARRIL #11 BO. PUEBLO, LAJAS, P.R. 00667

GPS LATITUDE/LONGITUDE:
18.04941608, -67.05761236

OWNER
LAJAS MUNICIPALITY

REGISTER No.
3 5 8 - 0 3 2 - 0 7 2 - 0 1

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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IMPORTANT NOTES TO THE CONTRACTOR:
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CERTIFICATION
I, WILLIAM MELENDEZ RIVAS, LIC. 16353, CERTIFY THAT I AM THE PROFESSIONAL WHO [MADE, DESIGNED OR PREPARED] THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS WAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 14-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT IN THE PUERTO RICAN INDUSTRY" AND WITH THE [LAW NO. 319 OF MAY 15, 1938, AS AMENDED/ ACT NO. 96 OF JULY 6, 1978, AS AMENDED, AS APPLICABLE] I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY IGNORANCE OR NEGLIGENCE EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE CGPE.

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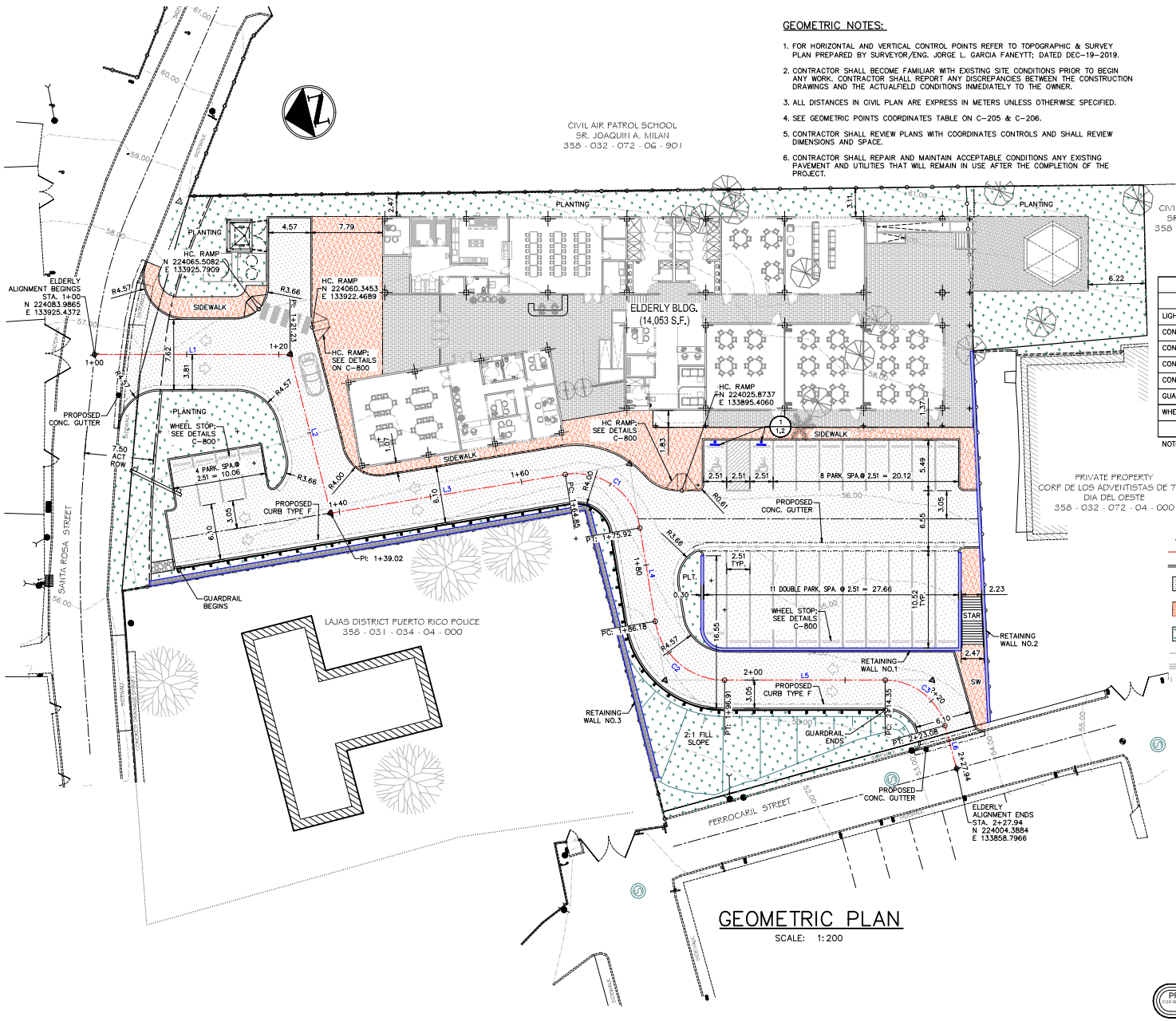
William Melendez Rivas, Ingeniero, Licenciado, Lic. 16353, Puerto Rico

FILE
Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
DEMOLITION TYPICAL DETAILS

DRAWING No.
C101



GEOMETRIC NOTES:

1. FOR HORIZONTAL AND VERTICAL CONTROL POINTS REFER TO TOPOGRAPHIC & SURVEY PLAN PREPARED BY SURVEYOR/ENG. JORGE L. GARCIA FANEYTT; DATED DEC-19-2019.
2. CONTRACTOR SHALL BECOME FAMILIAR WITH EXISTING SITE CONDITIONS PRIOR TO BEGIN ANY WORK. CONTRACTOR SHALL REPORT ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DRAWINGS AND THE ACTUALFIELD CONDITIONS INMEDIATELY TO THE OWNER.
3. ALL DISTANCES IN CIVIL PLAN ARE EXPRESS IN METERS UNLESS OTHERWISE SPECIFIED.
4. SEE GEOMETRIC POINTS COORDINATES TABLE ON C-205 & C-206.
5. CONTRACTOR SHALL REVIEW PLANS WITH COORDINATES CONTROLS AND SHALL REVIEW DIMENSIONS AND SPACE.
6. CONTRACTOR SHALL REPAIR AND MAINTAIN ACCEPTABLE CONDITIONS ANY EXISTING PAVEMENT AND UTILITIES THAT WILL REMAIN IN USE AFTER THE COMPLETION OF THE PROJECT.

SITE IMPROVEMENTS - QUANTITY TABLE

DESCRIPTION	UNIT	QUANTITY
LIGHT DUTY ASPHALT PAVEMENT	SQ.MTS.	1,277
CONCRETE CURB TYPE D	LN.MTS.	210
CONCRETE CURB TYPE F	LN.MTS.	141
CONCRETE GUTTER	LN.MTS.	56
CONCRETE SIDEWALK	SQ.MTS.	356
GUARDRAILS (METAL BARRIER)	LN.MTS.	92
WHEELSTOPS	EACH	25

NOTE: REFER TO SHEET C-800 FOR CIVIL DETAILS

GEOMETRIC PLAN LEGEND

- CENTER OR ALIGNMENT LINE
- PROPOSED CONCRETE CURB
- PROPOSED HEAVY DUTY ASPHALT PAVEMENT FULL DEPTH; SEE DETAIL ON C-800
- PROPOSED CONCRETE SIDEWALK; SEE DETAIL ON C-800
- PROPOSED GREEN AREAS (PLANTING)
- TRAVELEDWAY CENTERLINE
- CONCRETE GUTTER
- 00 GEOMETRIC POINTS, SEE TABLES
- F.F.E. FINISHED FLOOR ELEVATION
- L LENGTH
- R RADIUS
- PARK. PARKING
- PL PLANTING
- PVMT. PAVEMENT
- RW RETAINING WALL
- SPA. SPACES
- SW SIDEWALK
- STA STATION
- SIGNS SYMBOL
- 1/3 SIGN IDENTIFICATION NUMBER
- LOCATION NUMBER

GEOMETRIC PLAN

SCALE: 1:200

PRELIMINARY PRINT
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PROGRESS PRINT ONLY

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San Juan, PR 00918-4460
logisticengineering.sp@gmail.com

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OWNER

LAJAS MUNICIPALITY

REGISTER No.

358-032-072-01

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D

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CERTIFICATION

Yo, Wilfredo Rodriguez, licencia numero 13719, CERTIFICO que soy el profesional que diseño estos planos y las especificaciones complementarias. También Certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables de los reglamentos y Codigos de las Agencias, Juntas Reglamentadoras o Corporaciones Publicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido con conocimiento o por negligencia es sea por mi, mis agentes o empleados, o por otras personas con mi conocimiento me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe y otras autoridades competentes a la terminación de la participación en los procedimientos de certificación profesional en la OGPe

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SIGNATURE

FILE

Dwg Name: C-200 TO 201 GEOMETRIC PLAN_LAJAS ELDERLY.DWG
Drawn by: A.M.G.
Revised by: W.R.U.
Plot Scale: AS SHOWN
Progress Print:

TITLE

GEOMETRIC PLAN

DRAWING No.

PAGE: C 200

LINE ELDERLY VERTEX TABLE										
LABEL	STATION	DISTANCE	BEARING	Δ	R	T	E	L	COORDINATES N	COORDINATES E
L1	STA. 1+00 STA. 1+21.05	21.05	S14° 12' 49"W						224083.8143 224063.4048	133925.3936 133920.2241
L2	STA. 1+21.05 STA. 1+38.84	17.79	N90° 00' 00"W						224063.4048 224063.4048	133920.2241 133902.4340
L3	STA. 1+38.84 STA. 1+64.67	25.82	S4° 55' 52"W						224063.4048 224037.6756	133902.4340 133900.2142
C1	PC STA. 1+64.67 PI VERTEX PT STA. 1+75.74	11.07		90° 00' 00"	7.05	7.05	2.06	11.07	224037.6756 224030.6536 224031.2595	133900.2142 133899.6084 133892.5865
L4	STA. 1+75.74 STA. 1+86.01	10.27	N85° 04' 08"W						224031.2595 224032.1420	133892.5865 133882.3577
C2	PC STA. 1+86.01 PI VERTEX PT STA. 1+96.73	10.73		80° 39' 30"	7.62	6.47	1.81	10.73	224032.1420 224032.6980 224026.4288	133882.3577 133875.9128 133874.3180
L5	STA. 1+96.73 STA. 2+14.17	17.44	S14° 16' 22"W						224026.4288 224009.5304	133874.3180 133870.0192
C3	PC STA. 2+14.17 PI VERTEX PT STA. 2+22.87	8.70		74° 19' 18"	6.71	5.08	1.36	8.70	224009.5304 224004.6047 224004.4800	133870.0192 133868.7661 133863.6850
L6	STA. 2+22.87 STA. 2+27.86	4.99	S88° 35' 40"W						224004.4800 224004.3576	133863.6850 133858.6955

SIGNING TABLE						
CODE NUMBER	LOCATION NUMBER	L E G E N D	REFERENCE MANUAL	SIZE OF SIGN PANELS	SIGN CODE	TOTAL ITEM
1	1, 2,	ESTACIONAMIENTO RESERVADO	SEE DETAIL ON C-500	12" x 18"	R7-8	8
1	1	PARE	SEE D.T.P.W. MANUAL	30" x 30"	R1-1	1

GEOMETRIC TABLE

SCALE: 1:200

PROJECT ADDRESS

ELDERLY SERVICE CENTER
CALLE FERROCARRIL #11 BO. PUEBLO,
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REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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IMPORTANT NOTES TO THE CONTRACTOR

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CERTIFICATION

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FILE

Dwg Name: C-200 TO 201 GEOMETRIC PLAN_LAJAS ELDERLY.DWG
Drawn by: A.M.G.
Revised by: W.R.U.
Plot Scale: AS SHOWN
Progress Print:

TITLE

GEOMETRIC TABLE

DRAWING No.

PAGE: C 201

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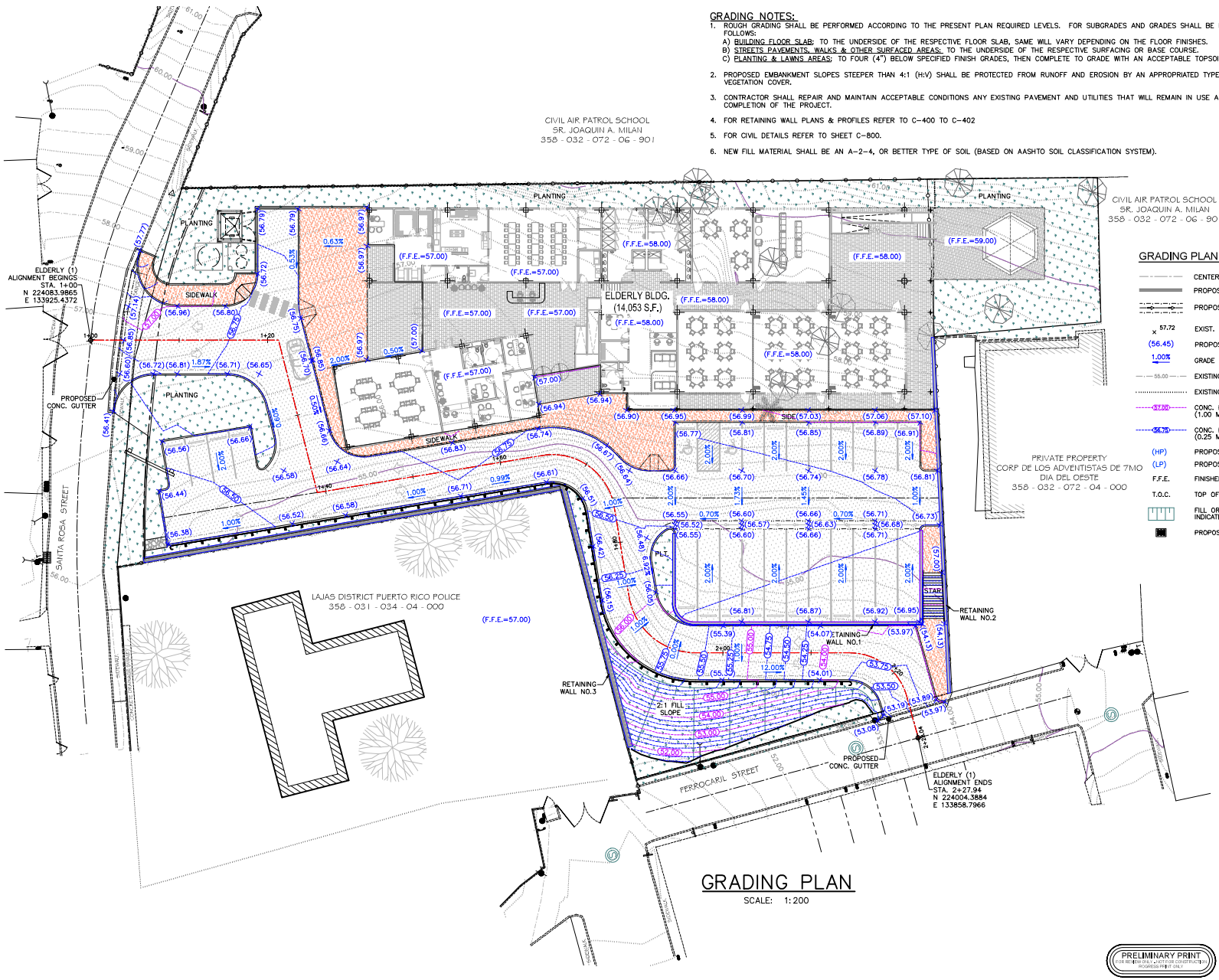
San Juan, PR 00920-6668



GRADING NOTES:

1. ROUGH GRADING SHALL BE PERFORMED ACCORDING TO THE PRESENT PLAN REQUIRED LEVELS. FOR SUBGRADES AND GRADES SHALL BE PERFORMED AS FOLLOWS:
   A) BUILDING FLOOR SLAB; TO THE UNDERSIDE OF THE RESPECTIVE FLOOR SLAB, SAME WILL VARY DEPENDING ON THE FLOOR FINISHES.
   B) STREETS PAVEMENTS, WALKS & OTHER SURFACED AREAS; TO THE UNDERSIDE OF THE RESPECTIVE SURFACING OR BASE COURSE.
   C) PLANTING & LAWNS AREAS; TO FOUR (4") BELOW SPECIFIED FINISH GRADES, THEN COMPLETE TO GRADE WITH AN ACCEPTABLE TOPSOIL.
2. PROPOSED EMBANKMENT SLOPES STEEPER THAN 4:1 (H:V) SHALL BE PROTECTED FROM RUNOFF AND EROSION BY AN APPROPRIATED TYPE OF BLANKET AND VEGETATION COVER.
3. CONTRACTOR SHALL REPAIR AND MAINTAIN ACCEPTABLE CONDITIONS ANY EXISTING PAVEMENT AND UTILITIES THAT WILL REMAIN IN USE AFTER THE COMPLETION OF THE PROJECT.
4. FOR RETAINING WALL PLANS & PROFILES REFER TO C-400 TO C-402
5. FOR CIVIL DETAILS REFER TO SHEET C-800.
6. NEW FILL MATERIAL SHALL BE AN A-2-4, OR BETTER TYPE OF SOIL (BASED ON AASHTO SOIL CLASSIFICATION SYSTEM).

GRADING PLAN LEGEND

- CENTER OR ALIGNMENT LINE
- PROPOSED CONCRETE CURB
- PROPOSED CONCRETE GUTTER OR CHUTE
- 57.72 — EXIST. GROUND SPOT ELEVATION
- (56.45) — PROPOSED GRADE SPOT ELEVATION
- 1.00% — GRADE SLOPE DIRECTION FOR POSITIVE DRAINAGE
- 55.00 — EXISTING CONTOUR (1.00 MTS. PRECISION)
- EXISTING CONTOUR (0.25 MTS. PRECISION)
- 57.00 — CONC. REPAIR PROJECT PROPOSED CONTOUR (1.00 MTS. PRECISION)
- 56.75 — CONC. REPAIR PROJECT PROPOSED CONTOUR (0.25 MTS. PRECISION)
- (HP) — PROPOSED GRADE HIGH POINT
- (LP) — PROPOSED GRADE LOW POINT
- F.F.E. — FINISHED FLOOR ELEVATION
- T.O.C. — TOP OF CUT SLOPE
- FILL OR CUT EARTH SLOPE, SLOPE AS INDICATED ON PLANS
- PROPOSED STORM INLET STRUCTURE

GRADING PLAN

SCALE: 1:200

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LAJAS, P.R. 00667

GPS LATITUDE/LONGITUDE:
18.04941608, -67.05761236

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LAJAS MUNICIPALITY

REGISTER No.

358-032-072-01

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D

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SIGNATURE

FILE

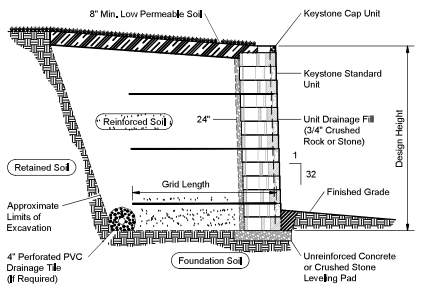
Dwg Name: C-300 GRADING PLAN LAJAS ELDERLY.DWG
Drawn by: A.M.G.
Revised by: W.R.U.
Plot Scale: AS SHOWN
Progress Print:

TITLE

GRADING PLAN

DRAWING No.

PAGE: C 300



Typical Reinforced Wall Section

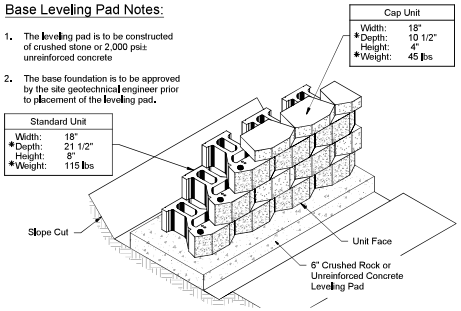
Standard Unit - Near Vertical Setback

Base Leveling Pad Notes:

1. The leveling pad is to be constructed of crushed stone or 2,000 psi± unreinforced concrete
2. The base foundation is to be approved by the site geotechnical engineer prior to placement of the leveling pad.

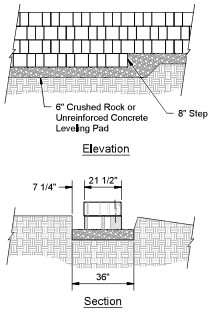
Standard Unit	
Width:	18"
*Depth:	21 1/2"
Height:	8"
*Weight:	115 lbs

Cap Unit	
Width:	18"
*Depth:	10 1/2"
Height:	4"
*Weight:	45 lbs

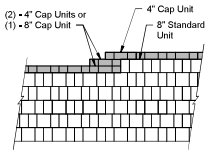


Standard Unit/Base Pad Isometric View

*Dimensions & Weight May Vary by Region



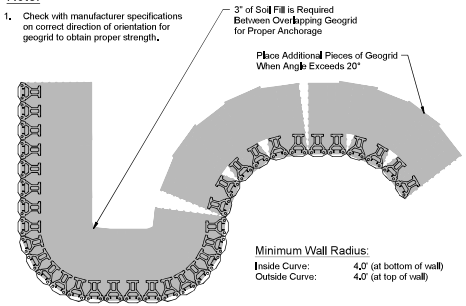
Leveling Pad Detail



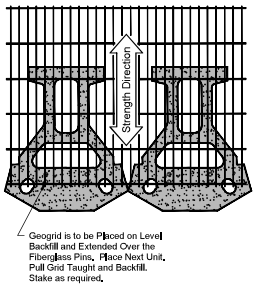
Top of Wall Steps

Note:

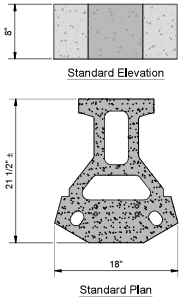
1. Check with manufacturer specifications on correct direction of orientation for geogrid to obtain proper strength.



Geogrid Installation on Curves



Grid & Pin Connection



Standard Unit

*Dimensions May Vary by Region

RETAINING WALL NOTES:

1. CONTRACTOR SHALL PRESENT BLOCK MECHANICAL STABILIZED EARTH WALL DESIGN & PLANS FROM THE SELECTED RETAINING WALL MANUFACTURER. DESIGN SHALL COMPLY WITH GEOTECHNICAL SOIL REPORT RECOMMENDATIONS PREPARED BY----------
2. SEE RETAINING WALL GEOMETRY DATA TABLE & TYPICAL DETAILS ON ----

RETAINING WALL DETAILS

SCALE: NTS

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GPS LATITUDE/LONGITUDE:
18.04941608, -67.05761236

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REV.	DATE	DESCRIPTION	BY	CHK'D
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FILE

Dwg Name: C-402 RETAINING WALL DETAILS_LAJAS ELDERLY.DWG
Drawn by: A.M.G.
Revised by: W.R.U.
Plot Scale: AS SHOWN
Progress Print:

TITLE

RETAINING WALL DETAILS

DRAWING No.

PAGE: C 301

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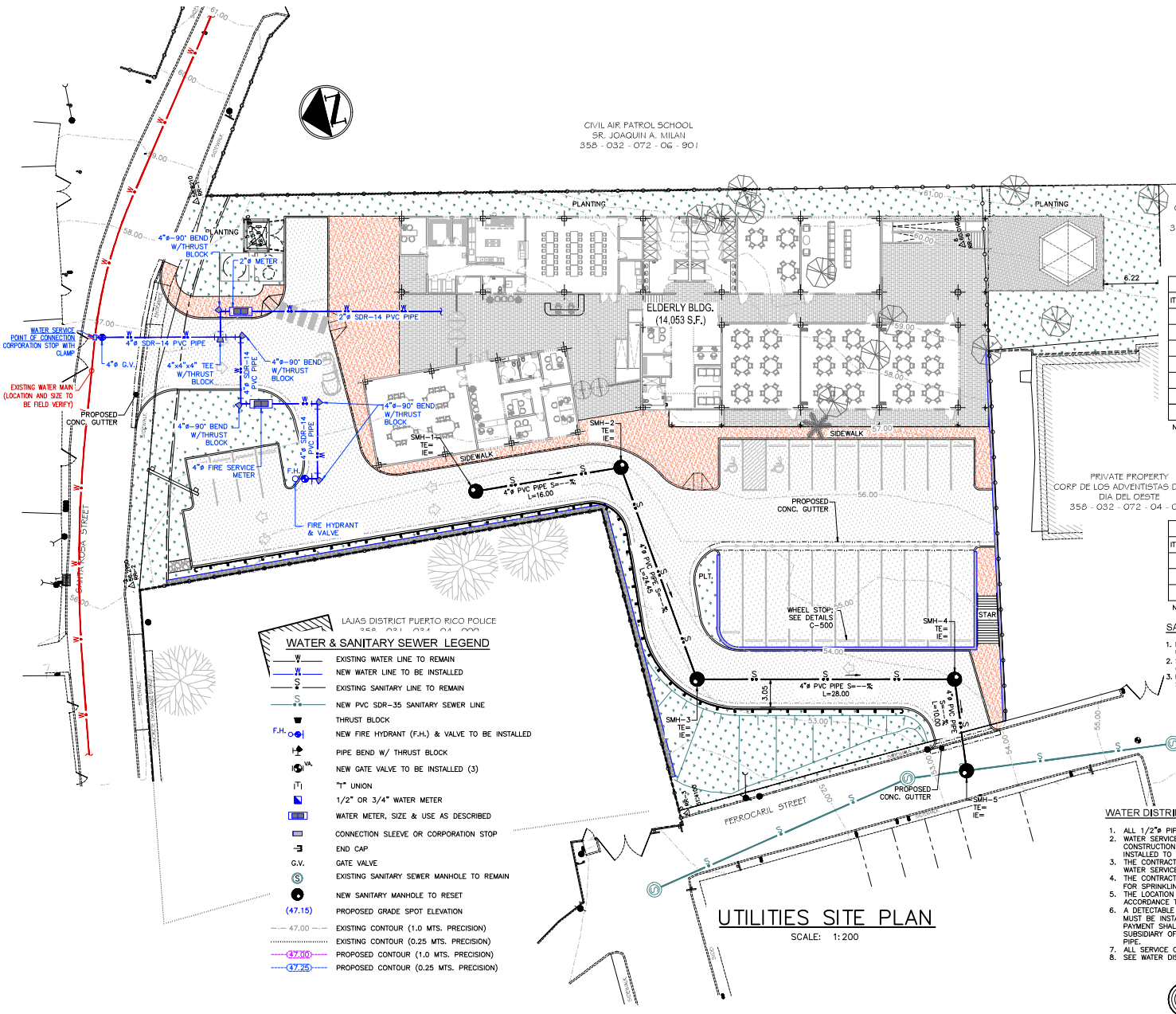

WATER & SANITARY SEWER LEGEND

- W — EXISTING WATER LINE TO REMAIN
- W — NEW WATER LINE TO BE INSTALLED
- S — EXISTING SANITARY LINE TO REMAIN
- S — NEW PVC SDR-35 SANITARY SEWER LINE
- THRUST BLOCK
- F.H. — NEW FIRE HYDRANT (F.H.) & VALVE TO BE INSTALLED
- PIPE BEND W/ THRUST BLOCK
- V.A. — NEW GATE VALVE TO BE INSTALLED (3)
- "T" UNION
- 1/2" OR 3/4" WATER METER
- WATER METER, SIZE & USE AS DESCRIBED
- CONNECTION SLEEVE OR CORPORATION STOP
- END CAP
- G.V. — GATE VALVE
- EXISTING SANITARY SEWER MANHOLE TO REMAIN
- NEW SANITARY MANHOLE TO RESET
- (47.15) — PROPOSED GRADE SPOT ELEVATION
- 47.00 — EXISTING CONTOUR (1.0 MTS. PRECISION)
- EXISTING CONTOUR (0.25 MTS. PRECISION)
- (47.00) — PROPOSED CONTOUR (1.0 MTS. PRECISION)
- (47.25) — PROPOSED CONTOUR (0.25 MTS. PRECISION)

UTILITIES SITE PLAN

SCALE: 1:200

UTILITIES QUANTITY SUMMARY

ITEM NO.	CLASS OF WORK	UNIT	QUANTITY
1	4"ø SDR-14 PVC PIPE	LN.MTS.	57
2	4"ø WATER SERVICE METER	EACH	1
3	FIRE HYDRANT & VALVE	EACH	1
4	CORPORATION STOP WITH CLAMP	EACH	1
5	4"ø VALVE	EACH	1

NOTE: REFER TO SHEET C-601 & 602 FOR UTILITIES DETAILS

P.R.A.S.A. SANITARY UTILITIES QUANTITY SUMMARY

ITEM NO.	CLASS OF WORK	UNIT	QUANTITY
1	NEW SANITARY MANHOLE TO RESET	EACH	5
2	PVC SDR-35 SANITARY SEWER LINE	LN.MTS.	79

NOTE: REFER TO SHEET C-603 FOR UTILITIES DETAILS

SANITARY SEWER NOTES:

1. METRIC SYSTEM HAS BEEN USED THROUGHOUT THE PROJECT UNLESS OTHERWISE SPECIFIED.
2. SANITARY SEWER PIPES SHALL BE 4" DIAMETER POLYVINYL CHLORIDE PIPE, S.D.R-35 WITH RUBBER GASKET JOINT.
3. FOR SANITARY SEWER & LEACHING BED DETAILS REFER TO SHEETS C-602.

WATER DISTRIBUTION SYSTEM NOTES:

1. ALL 1/2"ø PIPES LINE SHALL BE COPPER TYPE "K".
2. WATER SERVICE SHALL NOT BE INTERRUPTED AT ANY TIME DURING CONSTRUCTION. IF NECESSARY, A PROVISIONAL TEMPORARY BY-PASS MAY BE INSTALLED TO MAINTAIN SERVICE.
3. THE CONTRACTOR SHALL TAKE EXTREME CARE SO AS NOT TO DISRUPT THE WATER SERVICE DURING THE EARTHWORK.
4. THE CONTRACTOR SHALL NOT TAKE WATER FROM THE PRASA'S WATER SYSTEM FOR SPRINKLING OR CONTROLLING DUST DURING CONSTRUCTION.
5. THE LOCATION OF EXISTING WATER LINES ON THESE PLANS ARE APPROXIMATE IN ACCORDANCE TO SAN GERARDO MALL PLANS; AS PROVIDED.
6. A DETECTABLE TAPE (SIMILAR OR EQUAL TO TERRA-TAPE) 12" BELOW GROUND MUST BE INSTALLED BY CONTRACTOR WITH ALL PVC PIPES. NOT DIRECT PAYMENT SHALL BE DONE FOR THIS ITEM BUT SHALL BE CONSIDERED AS A SUBSIDIARY OF THE CONTRACTOR COVERED UNDER THE PAY ITEM FOR PVC PIPE.
7. ALL SERVICE CONNECTIONS SHALL BE IN COPPER FLEXIBLE TYPE K.
8. SEE WATER DISTRIBUTION SYSTEM DETAILS ON C-601.

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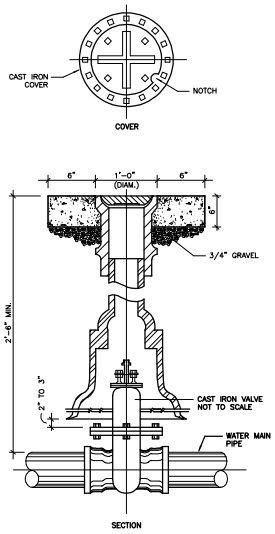
SIGNATURE

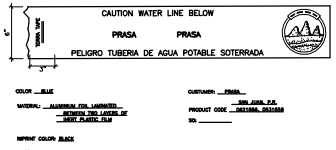
FILE
Dwg Name: C-600 UTILITIES SITE PLAN.LAJAS ELDERLY.DWG
Drawn by: A.M.G.
Revised by: W.R.U.
Plot Scale: AS SHOWN
Progress Print:

TITLE
UTILITIES SITE PLAN

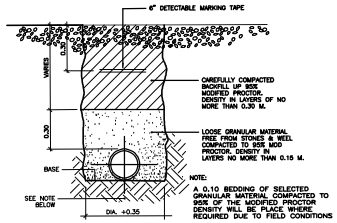
DRAWING No.
PAGE: C 400



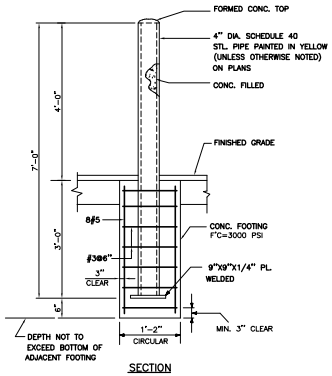
GATE VALVE BOX DETAIL
N.T.S.



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

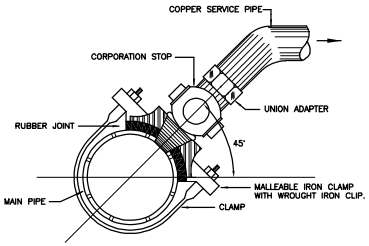


TRENCH DET. FOR WATER LINE
N.T.S.

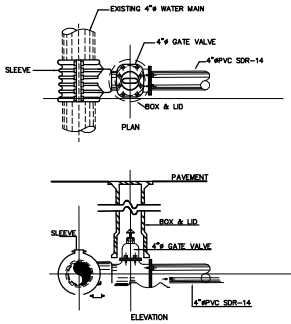


SECTION

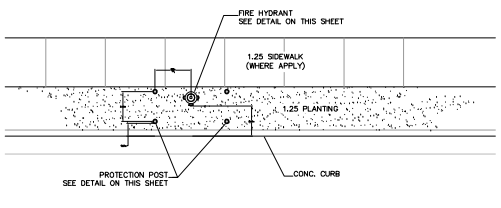
PROTECTION POST DETAIL
(PROVIDE FOUR PROTECTION POST AROUND FIRE HYDRANT)
NOT TO SCALE



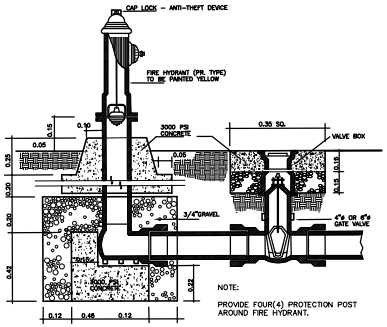
TYPICAL DETAIL OF WATER SERVICE CONNECTION WITH CLAMP
N.T.S.



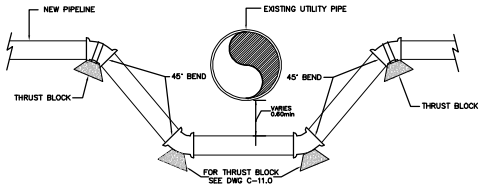
4"X4" TAPPING SLEEVE & GATE VALVE DET.
N.T.S.



FIRE HYDRANT PROTECTION POST LOCATION PLAN VIEW DETAIL
SCALE: 1:50



TYPICAL FIRE HYDRANT WITH VALVE DETAIL
N.T.S.



PIPELINE INSTALLATION AT UTILITIES CROSSINGS
N.T.S.

SPECIAL NOTES:

1. CONTRACTOR SHALL INCLUDE AS PART OF HIS BID PRICE A UNIT COST FOR A TYPICAL UTILITY CROSSING. THIS UNIT COST WILL BE APPLIED TO ANY ADDITIONAL UTILITY CROSSING THAT MAY APPEAR ON THE FIELD AND IS NOT ANTICIPATED FROM THE INFORMATION PROVIDED ON THESE DRAWINGS. THE CONTRACTOR SHALL BE FAMILIARIZED WITH THE INFORMATION PROVIDED IN THESE DRAWINGS AND WITH THE FIELD CONDITIONS PRIOR TO BID.
2. CONTRACTOR SHALL COORDINATE ALL HOOK-UPS AND METERS FOR EACH LOT WITH PLOT PLANS, WALK-WAYS AND DRIVEWAYS TO AVOID INSTALLING CLEAN-OUTS OR METERS BOXES IN CONSPICUOUS AREAS.

PROJECT ADDRESS

ELDERLY SERVICE CENTER
CALLE FERROCARRIL #11 BO. PUEBLO,
LAJAS, P.R. 00667

GPS LATITUDE/LONGITUDE:
18.04941608, -67.05761236

OWNER
LAJAS MUNICIPALITY

REGISTER No.
358-032-072-01

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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CERTIFICATION

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SIGNATURE

FILE
Dwg Name: C-600 UTILITIES SITE PLAN_LAJAS ELDERLY.DWG
Drawn by: A.M.G.
Revised by: W.R.U.
Plot Scale: AS SHOWN
Progress Print:

TITLE
WATER DISTRIBUTION DETAILS PART-1

DRAWING No.
PAGE: C 401

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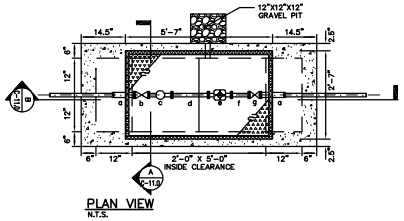
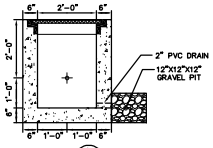
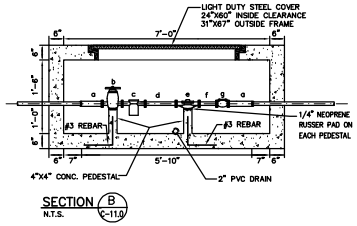


PLAN VIEW
N.T.S.

2"ø WATER METER, SCHEDULE OF ITEMS		
	ITEM	LENGTH
a	MALE ADAPTER, FLARE& FL	6 1/2"
b	GATE VALVE, NRS W/HANDLET FL & FL	7"
c	BASKET STRAINER, FL & FL	8 1/8"
d	BRASS NIPPLE, FL & FL	20"
e	2"ø WATER METER, FL & FL	11 4/5"
f	BRASS NIPPLE, FL & FL	6"
g	CHECK VALVE, FL & FL	4"

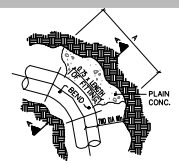


SECTION A
N.T.S.
C-11.0

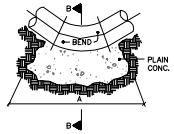


SECTION B
N.T.S.
C-11.0

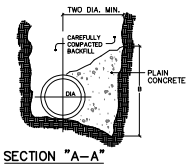
STANDARD 2"Ø WATER METER WITH
NIPPLE AND SINGLE LEAF STEEL COVER
NOT TO SCALE



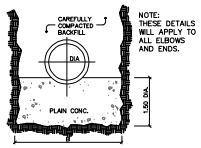
PLAN
NOT TO SCALE



ELEVATION
NOT TO SCALE

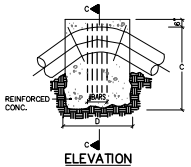


SECTION "A-A"
THRUST BLOCK FOR HORIZONTAL BENDS
NOT TO SCALE

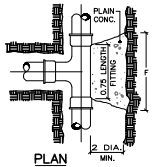


NOTE:
THESE DETAILS
WILL APPLY TO
ALL ELBOWS
AND ENDS.

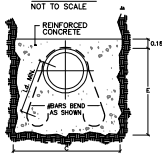
SECTION "B-B"
DOWNWARD THRUST BLOCK
NOT TO SCALE



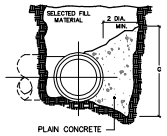
ELEVATION
NOT TO SCALE



PLAN
NOT TO SCALE



SECTION "C-C"
UPWARD THRUST BLOCK
NOT TO SCALE



SECTION
NOT TO SCALE

T E E S

THRUST BLOCK FOR HORIZONTAL AND VERTICAL DOWNWARD BENDS

90° BEND

DIA.	A	B
4	2'-0"	2'-0"
6	3'-0"	3'-0"
8	4'-0"	4'-0"
10	4'-0"	4'-0"

45° BEND

DIA.	A	B
4	2'-0"	2'-0"
6	2'-0"	2'-0"
8	3'-0"	3'-0"
10	3'-0"	3'-0"

22-1/2° BEND

DIA.	A	B
4	1'-0"	1'-0"
6	2'-0"	2'-0"
8	2'-0"	2'-0"
10	2'-0"	2'-0"

THRUST BLOCK FOR VERTICAL UPWARD BENDS

45° BEND

DIA.	C	D	E		
4	2'-0"	2'-0"	4'-0"	1 #3	2'-0"
6	2'-6"	2'-6"	5'-0"	2 #3	2'-0"
8	3'-0"	3'-0"	6'-6"	2 #3	2'-0"
10	3'-6"	3'-6"	7'-0"	2 #4	2'-0"

22-1/2° BEND

DIA.	C	D	E		
4	2'-0"	2'-0"	2'-0"	1 #3	1'-6"
6	2'-0"	2'-0"	4'-6"	1 #3	2'-0"
8	2'-6"	2'-6"	5'-0"	2 #3	2'-0"
10	2'-6"	2'-6"	7'-6"	2 #3	2'-0"

11-1/4° BEND

DIA.	C	D	E		
4	1'-0"	1'-0"	4'-6"	1 #2	2'-0"
6	2'-0"	2'-0"	2'-6"	1 #2	2'-0"
8	2'-0"	2'-0"	4'-0"	2 #2	2'-0"
10	2'-6"	2'-0"	4'-0"	2 #2	2'-0"

THRUST BLOCK FOR TEES AND DEAD ENDS

TEES AND DEAD ENDS

DIA.	F	G
4	2'-0"	2'-0"
6	2'-0"	2'-0"
8	3'-0"	3'-0"
10	3'-6"	3'-6"

THRUST BLOCK FOR WYES

WYES

DIA.	A	B
4	2'-0"	2'-0"
6	2'-0"	2'-0"
8	3'-0"	3'-0"
10	3'-0"	3'-0"

NOTES:

1- WATER PIPES SHALL BE INSTALLED IN ACCORDANCE WITH AWWA C 150, TYPE 2

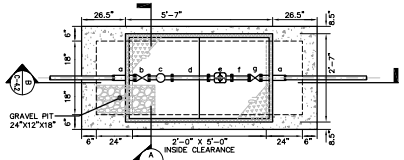
2- THE CONTRACTOR SHALL VERIFY LATERAL SUPPORTING CAPACITY OF TRENCH WALL PRIOR TO CONSTRUCTION OF THRUST BLOCK.

DESIGN DATA

1- REINFORCING STEEL Fy=60,000 P.S.I.
CONCRETE FC=3,000 P.S.I.

2- PRESSURE 150 + WATER IMPACT 75 = 225 P.S.I.

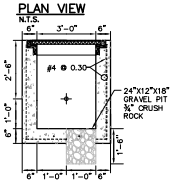
3- SOIL PRESSURE 2,000 P.S.F.



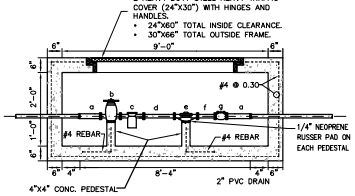
PLAN VIEW
N.T.S.

4"ø WATER METER, SCHEDULE OF ITEMS		
	ITEM	LENGTH
a	UNI-FLANGE	2 4/9"
b	GATE VALVE, NRS W/HANDLET FL & FL	9"
c	BASKET STRAINER, FL & FL	11 4/5"
d	D.I. NIPPLE, FL & FL	40"
e	4"ø FIRE-SERVICE METER, FL&FL(SEE NOTE#3)	14"
f	D.I. NIPPLE, FL & FL	12"
g	CHECK VALVE, FL & FL	6 2/3"
h	FLANGE COUPLING ADAPTER	3 4/7"

NOTES:
1. ALL VALVE SHALL BE CLASS 150#
2. REINFORCED CONCRETE STRUCTURE:
   2.A. CONCRETE STREGTH F'c = 4,000 PSI
   2.B. STEEL REINFORCEMENT Fy = 60 KSI
   2.C. REBARS: #4 @ 12" E.W. (As = 0.20 SQ.IN./FT)
3. FIRE SERVICE WATER METER SHALL BE EQUAL OR SIMILAR TO:
   - ELSTER EVO04 ELECTROMAGNETIC 4"ø METER; IN COMPLIANCE WITH AWWA C703.



SECTION A
N.T.S.
C-4.2



SECTION B
N.T.S.
C-4.2

FIRE SERVICE 4"Ø METER WITH
NIPPLE AND SINGLE LEAF HEAVY TRAFFIC COVER
NOT TO SCALE

WATER DISTRIBUTION SYSTEM NOTES:

1. ALL CONNECTIONS SHALL BE PERFORMED BY A CERTIFIED PLUMBER OR UNDER THE DIRECT SUPERVISION OF ONE.
2. ALL 1/2" & 3/4" DIAMETER CONNECTIONS SHALL BE INSTALLED WITH 180 DEGREES SLEEVES AND SERVICE CLAMPS.
3. ALL INSTALLATIONS SHALL BE PERFORMED ACCORDING TO P.R.A.S.A. REGULATIONS.
4. A 6" DETECTABLE BLUE TAPE, LIKE THE ONE MANUFACTURED BY "REEF INDUSTRIES, INC." OR SIMILAR SHALL BE INSTALLED. THE TAPE SHALL BE LOCATED ON TOP AND PARALLEL TO THE PIPE AT A DEPTH OF 0.30 METERS (12") UNDER THE SURFACE.
5. THRUST BLOCKS SHALL BE PROVIDED TO ALL FITTINGS, ELBOWS, TEES, "Y" BRANCHES & ANY HORIZONTAL AND/OR VERTICAL DIRECTION CHANGE.
6. THE CONTRACTOR OR PROJECT OWNER SHALL SUBMIT EVIDENCE OF PAYMENT FOR CONNECTION TO THE SYSTEM PRIOR TO RECEIVING FINAL ENDORSEMENT OF THE PROJECT.
7. ALL CONNECTION FITTINGS SUCH AS TEES, VALVES, PLUGS, ETC. SHALL BE MADE OF CAST IRON.
8. THE PIPE SHALL BE INSTALLED AT A DEPTH OF 0.75 METERS FROM THE SURFACE TO THE TOP OF THE PIPE AND AT A DISTANCE OF 1.50 METERS FROM THE CURB.
9. THE MINIMUM PRESSURE REQUIRED IN THE DISTRIBUTION SYSTEM WILL BE (30 LBS/ SQ. INCH) AT THE LEVEL OF THE SIDEWALK CURB AT THE HIGHEST POINT OF THE SYSTEM.
10. THE OWNER OR REPRESENTATIVE SHALL NOTIFY P.R.A.S.A. OFFICE IN WRITING WHEN HYDRAULIC WORKS BEGIN.
11. P.R.A.S.A. RESERVES THE RIGHT TO REQUIRE ANY CHANGES NOT INCLUDED IN THE PROJECT DUE TO OMISSION OR INVOLUNTARY ERRORS IF, BASED ON ITS BEST JUDGMENT, THE CHANGES ARE NECESSARY FOR THE PROPER FUNCTIONING OF THE WATER DISTRIBUTION SYSTEM.
12. THE CONTRACTOR SHALL PAY AND SUPPLY WATER METERS BASED ON EQUIVALENT HOUSING UNITS ACCORDING TO P.R.A.S.A. REGULATIONS. P.R.A.S.A. WILL BE RESPONSIBLE FOR THE INSTALLATION OF WATER METERS.
13. THE WATER METER BOXES MUST BE INSTALLED OUT OF THE ROADWAY, PARKING OR MOTOR VEHICLES ACCESS RAMPS.
14. THE WATER METER BOXES MUST BE INSTALLED OUT OF PROPERTY LIMITS.
15. THE WATER METER MUST BE CALIBRATED IN CUBIC METERS.
16. THE WATER METER BOX MUST BE INSTALLED AT A SAFE AND ADEQUATE DISTANCE FROM ELECTRIC EQUIPMENT.
17. THE WATER METERS MUST BE INSTALLED USING COPPER TYPE 'K' OR BRONZE PIPE OF EQUAL COMPLIANCE.
18. THE DISTANCE BETWEEN THE WATER SERVICE CONNECTION AND THE SANITARY SEWER CONNECTION MUST BE MORE OR EQUAL THAN 5 FEET. THE INSTALLATION OF BOTH SERVICES IN THE SAME TRENCH IS NOT PERMITTED.
19. THE FIRE HYDRANTS MUST BE INSTALLED AT SAFE AND ADEQUATE DISTANCE FROM ELECTRIC EQUIPMENT.
20. WATER SERVICE SHALL NOT BE INTERRUPTED AT ANY TIME DURING CONSTRUCTION. IF NECESSARY, A PROVISIONAL TEMPORARY BY-PASS MAY BE INSTALLED TO MAINTAIN SERVICE.
21. THE CONTRACTOR SHALL TAKE EXTREME CARE SO AS NOT TO DISRUPT THE WATER SERVICE DURING THE EARTHWORK.
22. THE LOCATION OF ALL EXISTING WATER LINES SHOWN ON PLANS ARE APPROXIMATE IN ACCORDANCE TO AS-BUILT INFORMATION PROVIDED. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION BEFORE RELOCATION OR EARTHWORK BEGINS.
23. ALL SERVICE CONNECTIONS SHALL BE IN COPPER FLEXIBLE TYPE K.
24. THESE PLANS HAVE BEEN PREPARED AS PER P.R.A.S.A. SPECIFICATIONS, IN THE EVENT OF AN OVERSIGHT OR OMISSION, CONTRACTOR SHALL FOLLOW THE DIRECTIVE ISSUED BY P.R.A.S.A. INSPECTOR AND/OR RESIDENT ENGINEER.

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LOGISTIC ENGINEERING CONSULTANTS, CSP
RUY RIVERA
San Juan, PR 00902-0668
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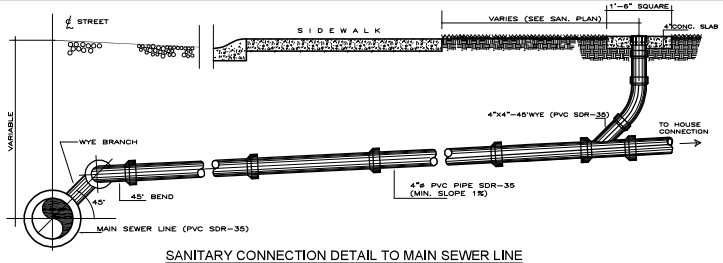
Tel. (787) 918-0060 / 5681
Email: info@ingenium.group

SIGNATURE

FILE
Dwg Name: C-600 UTILITIES SITE PLAN_LAJAS ELDERLY.DWG
Drawn by: A.M.G.
Revised by: W.R.U.
Plot Scale: AS SHOWN
Progress Print:

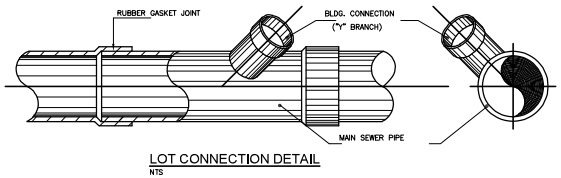
TITLE
WATER DISTRIBUTION PLAN PART-2

DRAWING No.
PAGE: C 402



SANITARY CONNECTION DETAIL TO MAIN SEWER LINE LESS THAN 2.00m

NTS



LOT CONNECTION DETAIL

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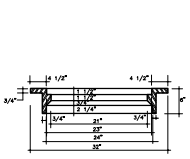

FRAME SECTION

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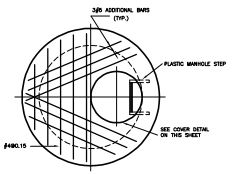
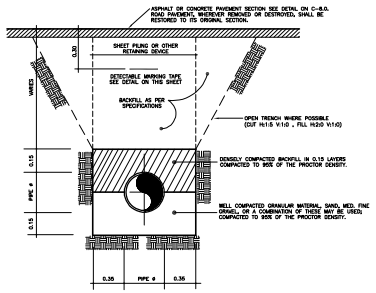


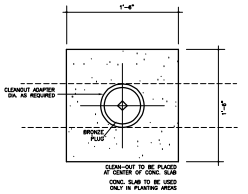
TOP SLAB REINFORCEMENT

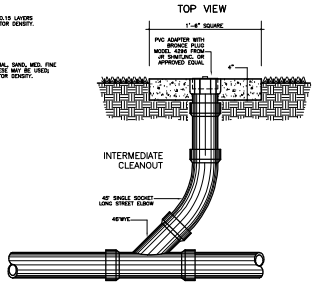
NTS



SANITARY PIPE TRENCH DETAIL

NTS





CLEAN OUT DETAIL

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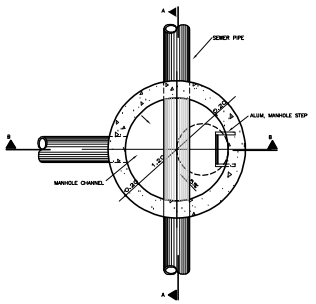
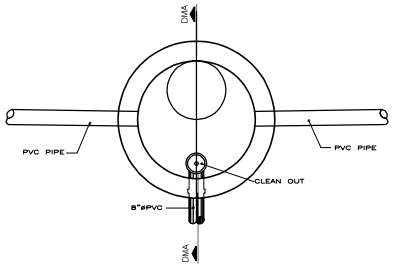


ALTERNATE SECTIONAL PLAN

NTS

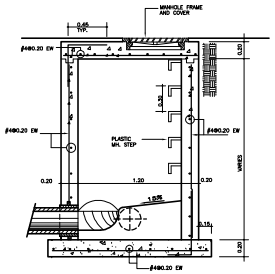
MANHOLES CONSTRUCTION NOTES:

1. MINIMUM CONCRETE COMPRESSIVE STRENGTH IN ALL SECTIONS SHALL BE 4,000 PSI.
2. LIFTING HOLES PROVIDED IN ALL UNITS TO FACILITATE INSTALLATION.
3. MANHOLES BASE TO BE INSTALLED ON A FIRM STABILIZED FOUNDATION.
4. ON ASPHALTS ROADS THE MANHOLE TOP SHALL BE FLUSH WITH THE ROADWAY SURFACE,
5. CAUTION SHALL BE TAKEN TO KEEP THE CAST IRON FRAME AND COVER AT THE SURFACE LEVEL.
6. THE BOTTOM CHANNEL OF THE MANHOLE MUST HAVE THE SAME GRADIENT OF THE SEWER PIPE.
7. THE CONTRACTOR SHALL CONSIDER THE USE OF PRECAST MANHOLE AS AN ALTERNATIVE. IF THIS IS THE OPTION, SHOP DRAWING SHALL BE SUBMITTED TO THE DESIGNER FOR ITS APPROVAL.



SECTIONAL PLAN

NTS



SECTION B-B

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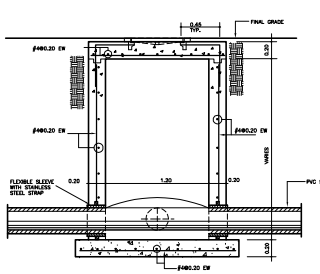

SECTION A-A

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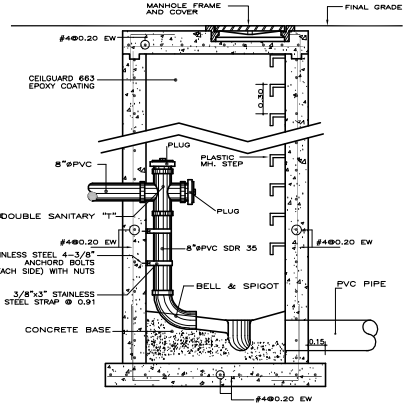
TYPICAL CAST IN PLACE MANHOLE DETAIL



TYP. DROP MANHOLE DETAIL FOR DEPTH 0.61 AND DEEPER

NTS

NOTES:

1.) OPEN TRENCH: SLOPE TO BE DETERMINED BY THE RESIDENT ENGINEER.

2.) TRENCH PROTECTION: TO BE DETERMINED BY CONTRACTOR TO ENSURE PROTECTION OF ADJACENT STRUCTURES, TRENCH WALLS AND WORKING CREWS INSIDE AND OUT OF TRENCH.

3.) GROUND OR PAVED SURFACES TO BE REPLACED OR RESTORED IN ACCORDANCE TO DETAILS AND SPECIFICATIONS.

4.) DETECTABLE MARKING TAPE SEE THE SPECIFICATIONS FOR INSCRIPTIONS.

5.) CONTRACTOR SHALL BE AWARE FOR THE PRESENCE OF ROCK FRAGMENTS DURING TRENCH EXCAVATIONS.

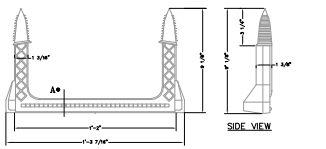
6.) THESE PLANS HAVE BEEN PREPARED AS PER P.R.A.S.A. SPECIFICATIONS, IN THE EVENT OF AN OVERSIGHT OR OMISSION, CONTRACTOR SHALL FOLLOW THE DIRECTIVE ISSUED BY P.R.A.S.A. INSPECTOR AND/OR RESIDENT ENGINEER

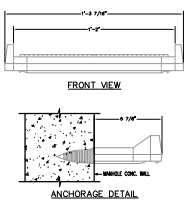
7.) WHEN UTILITY PIPING AND FORCE MAIN CROSS EACH OTHER OR WHEN LAID AT HORIZONTAL DISTANCE OF LESS THAN 1.52m (5ft.) FROM EACH OTHER, FORCE MAIN SHOULD BE INSTALLED AT A HIGHER LEVEL THAN THE UTILITY PIPING AND NO LESS THAN 0.38m (1ft.) BETWEEN THE OUTSIDE OF THE FORCE MAIN AND THE SEWER.

8.) UTILITY CROSSINGS TO BE APPROVED BY RESIDENT ENGINEER AND THE CORRESPONDING AGENCY OR OWNER OF THE UTILITY TO BE CROSSED.

9.) COMPRESSIVE STRENGTH OF CONCRETE TO BE 4,000 PSI @ 28 DAYS.

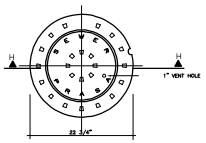
10.) CONTRACTOR SHALL PROTECT FRESH CONCRETE FROM VEHICLES UNTIL SET AND ABLE TO RECEIVE TRAFFIC LOAD. IN CASE OF DAMAGES, THE CONTRACTOR IF FULLY RESPONSIBLE TO IMPLEMENT THE REQUIRED CORRECTIVE MEASURES. CORRECTIVE MEASURES TO BE APPROVED BY THE RESIDENT ENGINEER.





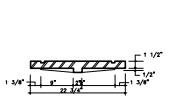
POLYPROPYLENE PLASTIC MANHOLE STEP DET.

NTS



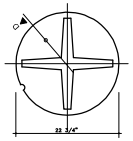
TOP VIEW OF COVER

NTS



SECTION H-H

NTS



BOTTOM VIEW OF COVER

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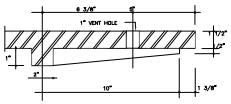

SECTION D-D

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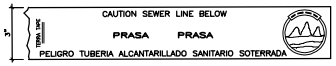

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PRODUCT CODE 0621556, 0531556

IMPRINT COLOR: BLACK

SO: _____

DETECTABLE MARKING TAPE DETAIL FOR SANITARY SEWER PIPE

NTS

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PROGRESS PRINT ONLY

LOGISTIC ENGINEERING CONSULTANTS, CSP
RUC# 64030466
San Juan, PR 00920-4466
ingenieriaenterprises@gmail.com

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ELDERLY SERVICE CENTER
CALLE FERROCARRIL #11 BO. PUEBLO, LAJAS, P.R. 00667

GPS LATITUDE/LONGITUDE: 18.04941608, -67.05761236

OWNER

LAJAS MUNICIPALITY

REGISTER No.

358-032-072-01

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D

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SIGNATURE

FILE

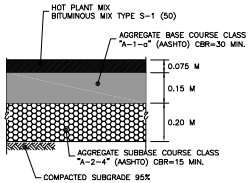
Dwg Name: C-600 UTILITIES SITE PLAN_LAJAS ELDERLY.DWG
Drawn by: A.M.G.
Revised by: W.R.U.
Plot Scale: AS SHOWN
Progress Print:

TITLE

SANITARY SEWER DETAILS

DRAWING No.

PAGE: C 403



LIGHT DUTY PAVEMENT DETAIL
(FOR LOCATION REFER TO GEOMETRIC PLAN)
NOT TO SCALE

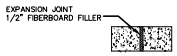
NOTES:

1. SPECIFICATIONS FOR ASPHALT PAVING AS PER 1989 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION OF DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS/ HIGHWAY AUTHORITY AS FOLLOWS:
   - A- SPECIFICATION 401 HOT PLANT-MIX BITUMINOUS PAVEMENT
   - B- SPECIFICATION 703 AGGREGATES
2. SECTION OF UNIT PRICE PAYMENTS UNDER SPECIFICATIONS STATED 1 ABOVE DOES NOT APPLY.

Ⓐ 5" MIN. THICK REINFORCED CONCRETE WITH A MIN. COMPRESSIVE STRENGTH OF AT LEAST 4000 P.S.I., AT 28 DAYS. 12'X12' MAX. CONTROL JOINT SPACING. MIN. SAWCUT DEPTH OF 1-1/2 INCHES.

Ⓑ 6" OF EITHER CLEAN WELL GRADED CONCRETE SAND FILL OR CRUSHED AGGREGRATE, DENSIFIED TO AT LEAST 98% OF THE MODIFIED PROCTOR TEST MAX. DRY DENSITY (ASTM D 1557).

Ⓒ 8" SUBGRADE SOILS MUST CONSIST OF "A-2-4" (AASHTO) CBR=15 MIN. AND MUST BE DENSIFIED TO AT LEAST 98% OF THE MODIFIED PROCTOR TEST MAX. DRY DENSITY (ASTM D 1557).

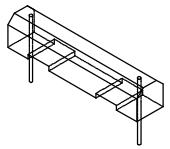


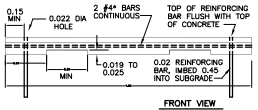
NOTE: CONTRACTOR SHALL COMPLY WITH SITE SPECIFICATIONS, AND DESIGN DATA AND RECOMMENDATION OF THE FCPA "DESIGN AND CONSTRUCTION OF CONCRETE PAVEMENT MANUAL" FOR CONCRETE PAVEMENT JOINT SPACING. THIS IS TO INCLUDE CONTROL/CONSTRUCTION, CONTRACTION AND ISOLATION JOINTS.

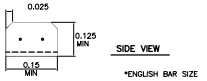
NOTES:

1. WHERE CONCRETE PAVEMENT IS CONSTRUCTED ALL CURBING ADJACENT TO IT SHALL BE INTEGRAL CURB.
2. CONCRETE PAVEMENT SHOULD BE CONSTRUCTED ONLY OVER STABLE AND SMOOTH COMPACTED SUBGRADES. ANY SURFACE DISTURBANCES OR WHEEL RUTTING SHOULD BE PREPARED PRIOR TO PLACEMENT OF CONCRETE.
3. THE SUBGRADE SHOULD BE THOROUGHLY WETTED IMMEDIATELY PRIOR TO THE PLACEMENT OF CONCRETE TO MINIMIZE ABSORPTION OF MOISTURE FROM THE CONCRETE DURING CURING.
4. CONCRETE PAVEMENT THICKNESS SHOULD BE UNIFORM THROUGHOUT, WITH THE EXCEPTION OF CURBING OR THICKENED EDGES.
5. RIGID PAVEMENT REINFORCEMENT SHALL BE #4 @12" O.C. EACH WAY AT MID-DEPTH, GRADE 60, ASTM A-615. ALL PAVEMENT EDGES AND OPENINGS AROUND STRUCTURES SHALL BE REINFORCED CONTINUOUS WITH NO. 5 BARS AND CLEAR COVER OF 3 INCHES. ALL REINFORCEMENT SHALL BE DISCONTINUED AT CONTROL JOINT LOCATIONS.

HEAVY DUTY CONCRETE PAVEMENT DETAIL
NOT-TO-SCALE







WHEEL STOP DETAIL
(PRECAST CONCRETE)
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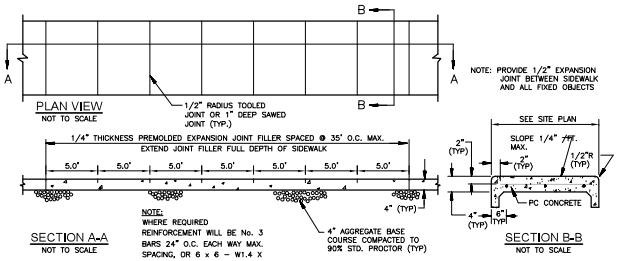
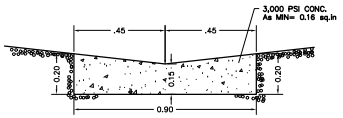


CONCRETE SIDEWALK
NOT TO SCALE



CONCRETE GUTTER
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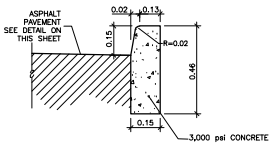

CONCRETE CURB DETAIL "TYPE D"
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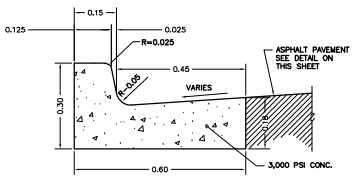

CONCRETE CURB GUTTER TYPE F
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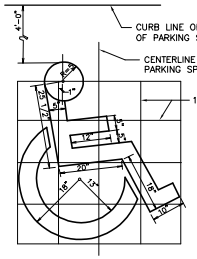

HANDYCAP RAMP SYMBOL
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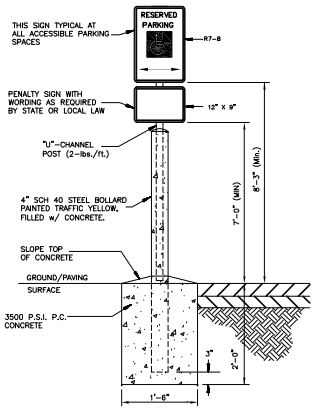
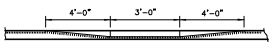
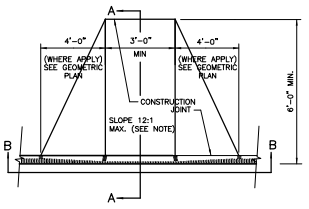


ACCESSIBLE PARKING SIGN





HANDYCAP RAMP DETAIL
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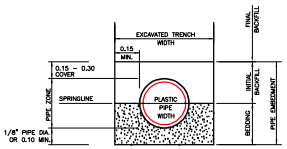
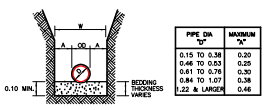


NOTE: PROVIDE BEDDING IN ACCORDANCE WITH THE SPECIFICATIONS.

TRENCH FOR PLASTIC PIPE
NOT TO SCALE



PIPE DIA "D"	MAXIMUM "A"
0.15 TO 0.38	0.20
0.46 TO 0.53	0.25
0.61 TO 0.76	0.30
0.84 TO 1.07	0.38
1.22 & LARGER	0.46

MAXIMUM TRENCH WIDTH "W" TAKEN AT TOP OF PIPE

NOTE: PROVIDE BEDDING IN ACCORDANCE WITH THE SPECIFICATIONS.

TRENCH FOR NON- PLASTIC PIPE
NOT TO SCALE

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LAJAS, P.R. 00667

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OWNER

LAJAS MUNICIPALITY

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Tel. (787) 918-0880 / 1881
Email: info@ingenium.group

SIGNATURE

FILE

Dwg Name: C-500 CIVIL PLAN_LAJAS ELDERLY.DWG
Drawn by: A.M.G.
Revised by: W.R.U.
Plot Scale: AS SHOWN
Progress Print:

TITLE

CIVIL DETAILS

DRAWING No.

PAGE: C 500

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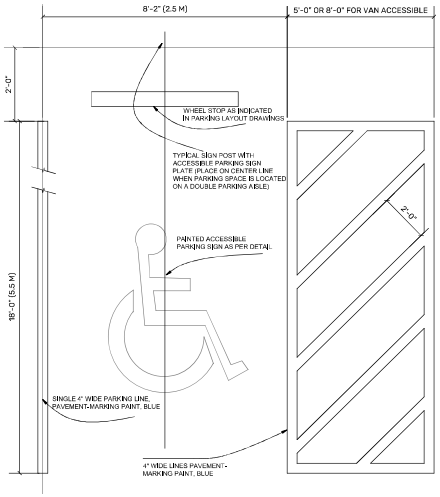
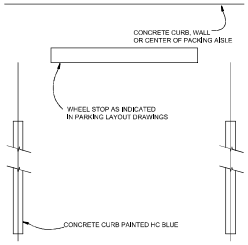
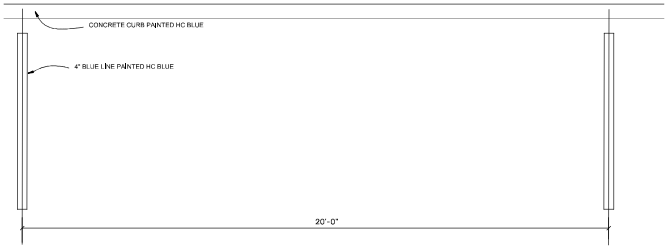
LOGISTIC ENGINEERING CONSULTANTS, CSP
lojasconsultantsgroup@gmail.com



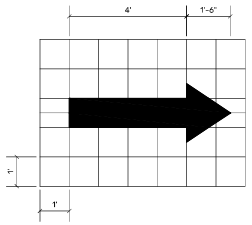
1 TYPICAL ADA PARKING SPACE
SCALE: SCALE 1/2 " = 1'-0"



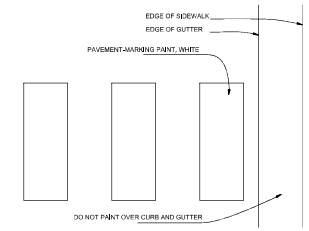
2 TYPICAL PARKING SPACE (SINGLE LINE)
SCALE: 1/2" = 1' - 0"



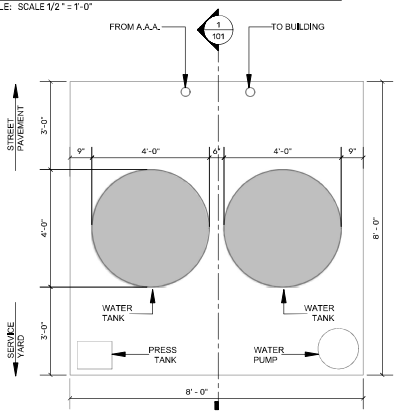
3 ACCESIBLE PARKING SIGN
SCALE: 1/2" = 1' - 0"



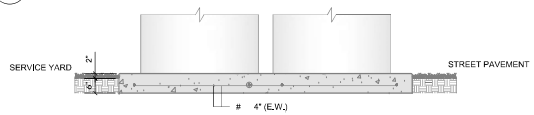
4 TRAFFIC DIRECTION ARROW DETAIL
SCALE: 1/2" = 1' - 0"



5 PEDESTRIAN CROSSING LINES DETAIL
SCALE: 1/2" = 1' - 0"



6 WATER TANK PAD BLOW UP
SCALE: 1/2" = 1'-0"



7 WATER TANK PAD SECTION
SCALE: 1/2" = 1'-0"

PROJECT ADDRESS
ELDERLY SERVICE CENTER
CALLE FERROCARRIL #11 BO. PUEBLO,
LAJAS, P.R. 00667

GPS LATITUDE/LONGITUDE:
18.04941608, -67.05761236

OWNER
LAJAS MUNICIPALITY

REGISTER No.
358-032-072-01

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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IMPORTANT NOTES TO THE CONTRACTOR:

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE PROCEEDING WITH WORK. IF ANY DISCREPANCIES, ERRORS OR OMISSIONS SHOULD BE ENCOUNTERED ON PLANS, CONTRACTOR SHALL NOTIFY THE ENGINEER BEFORE ANY PART OF THE WORK IS STARTED SO THAT PROPER CORRECTIONS ARE MADE. IF ENGINEER IS NOT NOTIFIED PRIOR TO COMMENCING OF THE WORK, ALL DESIGNS AND DRAWINGS HEREIN AND PRINTS ISSUED BY THE ENGINEER ARE THE PROPERTY OF THE ENGINEER AND SHALL NOT BE REUSED ON ANY OTHER LOCATION EXCEPT THE ONE FOR WHICH THEY EXPRESSLY DESIGNED. IF THESE DRAWINGS OR ANY PART THEREOF IS REPRODUCED WITHOUT THE CONSENT OF THE ENGINEER, THE PERSON WHO IS DOING WILL BE INSERTED TO THE ENGINEER FOR HIS FULL COMMISSION. CONTRACTOR SHALL NOT USE FOR CONSTRUCTION PURPOSES ANY DRAWINGS THAT WERE ADVANCE TO HIM PRIOR TO THE BEGINNING OF CONSTRUCTION, ALL PLANS BEING USED BY CONTRACTOR SHOULD HAVE A LABEL SAYING "FOR CONSTRUCTION ONLY" SIGNED AND SEALED BY THE ENGINEER.

CERTIFICATION

I, WILLIAM MELENDEZ RIVAS, LIC. 16,883, CERTIFY THAT I AM THE PROFESSIONAL WHO MADE, DESIGNED OR PREPARED THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 14- 2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY" AND WITH THE (LAW NO. 319 OF MAY 15, 1938, AS AMENDED; ACT NO. 96 OF JULY 6, 1979, AS AMENDED; AS APPLICABLE). I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY IGNORANCE OR NEGLIGENCE EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE OOPC.

INGENIUM PROFESSIONAL GROUP
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tel. (787) 919-4890 / 4891
Email: info@ingeniumgroup

SIGNATURE

William Melendez Rivas, Ingeniero, Licencia, Lic. 16883, Puerto Rico

FILE

Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
CIVIL DETAILS

DRAWING No.
C501

ARCHITECTURAL NOTES

GENERAL NOTES:

1. THESE GENERAL NOTES ARE NOT INTENDED TO REPLACE SPECIFICATIONS. SEE SPECIFICATIONS FOR REQUIREMENTS IN ADDITION TO GENERAL NOTES.

2. REFER TO THE GENERAL CONDITIONS AND DIVISION 1 "GENERAL REQUIREMENTS IN THE SPECIFICATIONS.

3. CONTRACTOR AND ALL TRADES SHALL NOTE REQUIREMENTS OF "GENERAL NOTES" ON ALL SHEETS.

4. WHERE INFORMATION MAY BE AT VARIANCE BETWEEN PLANS AND SPECIFICATIONS, THE PLANS SHALL GOVERN. HOWEVER, IF CERTAIN INFORMATION IS NOTED ONLY ON THE PLANS OR ONLY IN THE SPECIFICATIONS, THE INFORMATION WILL BE CONSIDERED AS VALID AS BEING NOTED ON PLANS AND IN THE SPECIFICATIONS.

5. THE CONTRACTOR SHALL VISIT THE PROJECT SITE TO VERIFY EXISTING CONDITION AND IDENTIFY VISIBLE PROBLEM AREAS OR DIFFICULTIES IN ORDER TO INCLUDE ALL COST IN BASE BID.

6. IF SPACE IS AVAILABLE, THE OWNER MAY PERMIT THE CONTRACTOR TO STORE SOME MATERIALS, EQUIPMENTS AND TOOLS ON THE SITE IN AN AREA APPROVED BY THE OWNER. THE CONTRACTORS ACCEPTS FULL RESPONSIBILITY FOR ANY AND ALL STORED MATERIALS, EQUIPMENTS AND TOOLS.

7. THE GENERAL CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND GRADE CONDITIONS, (BOTH NEW AND EXISTING) REPORTING ANY DISCREPANCIES TO THE ARCHITECT/ ENGINEER PRIOR TO ORDERING MATERIALS OR PROCEEDING WITH ANY PHASE OF THE WORK.

8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL MATERIALS (UNLESS NOTED OTHERWISE) AND WORKMANSHIP IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL BUILDING CODES AND THEIR REQUIREMENTS.

9. GENERAL CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ARCHITECT/ENGINEER APPROVAL FOR ALL ITEMS CALLED FOR OR INDICATED ON PLANS BUT NOT SPECIFICALLY DETAILED, WHERE FURTHER CLARIFICATION FOR CONSTRUCTION IS REQUIRED, THE ARCHITECT/ ENGINEER WILL SUBMIT DETAILS ON REQUEST.

10. ALL WORK SHALL BE DONE IN A THOROUGH AND WORKMANLIKE MANNER IN ACCORDANCE WITH THE APPLICABLE SPECIFICATIONS AND DRAWINGS. THE LATEST EDITION OF THE APPLICABLE CODES (FOR ANY SPECIFIC WORK) SHALL BE FALLOWED EXCEPT WHERE LOCAL REGULATIONS ARE MORE STRINGENT IN WHICH CASE LOCAL REGULATIONS SHALL GOVERN.

11. THE CONTRACTOR SHALL COMPARE STRUCTURAL SECTIONS WITH ARCHITECTURAL SECTIONS AND REPORT ANY DISCREPANCY TO THE ARCHITECT/ENGINEER PRIOR TO FABRICATION OR INSTALLATION OF STRUCTURAL MEMBERS.

12. REFER TO ALL CONSTRUCTION DOCUMENTS FOR REQUIREMENTS WHICH MAY AFFECT THE WORK IN ANOTHER DISCIPLINE AND COORDINATE WORK.

13. DIMENSIONS ARE FACE OF CONCRETE, FACE OF MASONRY, AND CENTER LINE OF ANY PARTITIONS UNLESS INDICATED OTHERWISE.

14. REFER TO DETAILS FOR ADDITIONAL DIMENSIONAL INFORMATION.

15. SEE ARCHITECTURAL DRAWINGS FOR FLOOR ELEVATIONS, FLOOR SLOPES AND THE LOCATION OF DEPRESSED FLOOR AREAS.

16. ELEVATIONS INDICATED ON THE GENERAL, ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, FIRE PROTECTION AND PLUMBING DRAWINGS AMONG OTHERS ARE BASED ON AN ASSIGNED REFERENCE ELEVATION OF THE CURRENT FINISH FLOOR ELEVATION. THE ACTUAL FIRST FLOOR ELEVATIONS ARE BASED ON THE DATUM SHOWN ON THE TOPOGRAPHIC AS-BUILT, EXISTING GRADING PLAN AND/OR THE PROPOSED GRADING PLAN SHEETS.

17. PRINCIPAL OPENINGS IN THE STRUCTURE ARE SHOWN ON THESE DRAWINGS. THE GENERAL CONTRACTOR SHALL EXAMINE THE ARCHITECTURAL MECHANICAL AND PLUMBING DRAWINGS FOR REQUIRED OPENINGS AS THEY SHALL BE PROVIDED FOR WHETHER SHOWN ON THESE DRAWINGS OR NOT. GENERAL CONTRACTOR SHALL VERIFY SIZE AND LOCATION OF ALL OPENINGS WITH ALL SUB-CONTRACTORS PRIOR TO CONSTRUCTION.

18. DO NOT SCALE DIMENSIONS FROM DRAWINGS. THE CONTRACTOR SHALL REQUEST, FROM THE ARCHITECT/ ENGINEER NECESSARY DIMENSIONS NOT SHOWN ON THE DRAWINGS.

19. IF ANY BIDDER IS IN DOUBT AS TO THE INTENT OF THE PLANS OR SPECIFICATIONS, THEY SHALL REQUEST AN INTERPRETATION FROM THE ARCHITECT/ENGINEER IN WRITING AT LEAST TEN (10) DAYS PRIOR TO THE BID DATE.

20. THE WORD "PROVIDE" MEANS "FURNISH AND INSTALL".

21. THE STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE, AND, EXCEPT WHERE SPECIFICALLY SHOWN, DO NOT INDICATE THE METHOD OR MEANS OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, PROCEDURES, TECHNIQUES, AND SEQUENCE. ALL APPLICABLE SAFETY REGULATIONS TO BE FOLLOWED STRICTLY.

22. THE STRUCTURE AS BEEN DESIGNED TO RESIST DESIGN LOADS ONLY AS A COMPLETED STRUCTURE. APPLICATIONS OF CONSTRUCTION LOADS TO THE PARTIALLY COMPLETED STRUCTURE SHALL BE CONSIDERED BY THE CONTRACTOR AND SO INCLUDED IN THE DESIGN OF SHORING, BRACING, FRAMEWORK, AND ANY OTHER SUPPORTING ELEMENTS PROVIDED FOR CONSTRUCTION OF THE STRUCTURE. DURING ERECTION AND UNTIL ALL PERMANENT CONNECTIONS ARE MADE, THE CONTRACTOR MUST PROVIDE TEMPORARY BRACING FOR THE STRUCTURE IN ALL DIRECTIONS.

23. SEE PLANS AND SPECIFICATIONS FOR ALL WORKS REQUIRING INSPECTION, TESTING AND/OR CERTIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE THOSE WORKS.

24. THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN CLEAN AT ALL TIME THE CONSTRUCTION SITE. THE CONTRACTOR ALSO SHALL BE RESPONSIBLE OF REMOVE AND DISPOSE OUT OF PROPERTY ALL THE DEBRIS AND GARBAGE GENERATED BY THE CONSTRUCTION WORKS.

25. THE CONTRACTOR SHALL MADE ALL REASONABLE EFFORTS TO RECYCLE AND RECOVER CONSTRUCTION AND DEMOLITION WASTE FROM THE PROJECT. A MINIMUM OF 50% BY WEIGHT, OF TOTAL PROJECT SOLID WASTE SHALL BE DIVERTED FROM THE LANDFILL IN ACCORDANCE WITH THE EXECUTIVE ORDER 13423 "STRENGTHENING FEDERAL ENVIRONMENTAL, ENERGY AND TRANSPORTATION MANAGEMENT" JANUARY 24, 2007.

26. THE CONTRACTOR SHALL PROVIDE ON-SITE INSTRUCTIONS FOR SEPARATING, HANDLING, RECYCLING SALVAGE, REUSE AND RETURN METHODS TO BE USED BY ALL PARTIES AT THE APPROPRIATE STAGES OF THE PROJECT. RECORDS SHALL BE MAINTAINED TO DOCUMENT THE QUANTITY OF WASTE DISPOSED OF BY LANDFILL OR INCINERATION. THE CONTRACTOR SHALL SUBMIT THIS REPORT AND THE DISPOSAL MANIFESTO OF ALL NON-HAZARDOUS CONSTRUCTION AND DEMOLITION WASTE GENERATION.

27. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING, FOLLOW UP AND OBTAINING ALL APPLICABLE PERMITS FOR THE REALIZATION OF THE PROJECT AS PER JOINT PERMIT REGULATIONS FOR BUILDING PERMITS AND LAND USE ADOPTED BY THE PERMIT MANAGEMENT OFFICE (OGPE IN SPANISH) UNDER LAW 161 AND FOR ANY AUTONOMOUS MUNICIPALITY OF THE COMMONWEALTH OF PUERTO RICO, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

SINGLE OPERATIONAL INCIDENTAL PERMIT (PUI) AND/OR PERMITS FOR INSTALLATION OF SIGNS AMONG OTHERS.

ABBREVIATIONS:

A

ø	—	DIAMETER OR ROUND
#	—	POUND OR NUMBER
A/C	—	AIR CONDITIONER
AHU	—	AIR HANDLING UNIT
ALUM.	—	ALUMINUM
APPX.	—	APPROXIMATE
ARCH.	—	ARCHITECTURAL
ASH	—	AUTOMATIC SPRINKLER HEAD
ASR	—	AUTOMATIC SPRINKLER RISER
ASU	—	AIR SUPPLY UNIT
AUX.	—	AUXILIARY
AV	—	AUDIO VISUAL
AVG.	—	AVERAGE
AVT	—	AIR VENT

B

BD.	—	BOARD
BLDG.	—	BUILDING
BLKG.	—	BLOCKING
BM.	—	BEAM
BPL	—	BASE PLATE
BRG.	—	BEARING
BRCG.	—	BRACING

C

CAB.	—	CABINET
CAV.	—	CAVITY
CEM.	—	CEMENT
CB	—	CATCH BASIN
CBP	—	CEMENT BOARD WITH PLASTER
CJ	—	CONTROL JOINT
CL	—	CENTER LINE
CLG.	—	CEILING
CLO.	—	CLOSET
CMU	—	CONCRETE MASONRY UNIT
CO	—	CLEAN OUT
COL.	—	COLUMN
CONC.	—	CONCRETE
CONF.	—	CONFERENCE
CONSTR—		CONSTRUCTION
CONT.	—	CONTINUOS
CORR.	—	CORRIDOR
CS	—	CONCRETE SEALED
CT	—	CERAMIC TILE
CU FT	—	CUBIC FEET
CU YD	—	CUBIC YARD
CW	—	COLD WATER PIPING

D

D	—	DEEP DEPTH
DBL.	—	DOUBLE
DET.	—	DETAIL
DIA.	—	DIAMETER
DIM.	—	DIMENSION
DN.	—	DOWN
DMPR.	—	DAMPER
DR.	—	DOOR
DS.	—	DOWNSPOUT
DWG.	—	DRAWING

E

EA.	—	EACH
EF	—	EACH FACE
ELEV.	—	ELEVATION
ELEC.	—	ELECTRICAL
EQ	—	EQUAL/-LY
EQUIP.	—	EQUIPMENT
EXIST.	—	EXISTING
EXP.	—	EXPANSION
EXT.	—	EXTERIOR

F

F/	—	FACE OF
FD	—	FLOOR DRAIN
FE	—	FIRE EXTINGUISHERS
FF	—	FINISH FLOOR
FDTN.	—	FOUNDATION
FH	—	FIRE HYDRANT
FIN.	—	FINISH
FLUOR.	—	FLUORESCENT
FR.	—	FRAME
FRTW	—	FIRE RETARDANT TREATED WOOD
FTG.	—	FOOTING

G

GA.	—	GAGE
GALV.	—	GALVANIZED
GEN.	—	GENERAL
GWB	—	GYPSUM WALL BOARD

H

HB	—	HOSE BIBB
HC	—	HOLLOW CORE
HDW	—	HARDWARE
HM	—	HOLLOW METAL
HORIZ.	—	HORIZONTALLY
HP	—	HIGH POINT
HR.	—	HOUR
HVAC	—	HEATING, VENTILATION, A/C
HW	—	HOT WATER PIPING
HWY	—	HIGHWAY

I

ID	—	INTERIOR DESIGN
INCL.	—	INCLUDED
INT.	—	INTERIOR

J

JAN.	—	JANITOR
JT.	—	JOINT

K

KIT.	—	KITCHEN

L

LAM.	—	LAMINATE/ION
LAV.	—	LAVATORY
LBL.	—	LABEL
LH	—	LEFT HAND
LP	—	LOW POINT
LTD.	—	LIMITED
LTWT	—	LIGHTWEIGHT
LVR.	—	LOUVER

M

MAINT.	—	MAINTENANCE
MAS.	—	MASONRY
MATL.	—	MATERIAL
MAX.	—	MAXIMUM
MED.	—	MEDIUM
MECH.	—	MECHANICAL
MFR.	—	MANUFACTURER
MH.	—	MANHOLE
MID.	—	MIDDLE
MIN.	—	MINIMUM
MISC.	—	MISCELLANEOUS
MO	—	MASONRY OPENING
MTD	—	MOUNTED, MOUNTING
MTL.	—	METAL

N

NA	—	NOT APPLICABLE
NIC	—	NOT IN CONTRACT
NO.	—	NUMBER
NTS	—	NOT TO SCALE

O

OC	—	ON CENTER
OFF.	—	OFFICE
OPEN.	—	OPENNING
OPT.	—	OPTIONAL

P

PAR.	—	PARALLEL
PERIM.	—	PERIMETER
PH.	—	PHASE
PLBG.	—	PLUMBING
PNL.	—	PANEL
PROJ.	—	PROJECT
PROP.	—	PROPERTY
PTD.	—	PAINTED
PTE	—	EPOXY PAINT
PVC	—	POLYVINYLCHLORIDE
PWD.	—	PLYWOOD

Q

QTY.	—	QUANTITY
QT	—	QUARRY TILE

R

R.	—	RADIUS
RD	—	ROOF DRAIN
REC.	—	RECESSED
RECT.	—	RECTANGULAR
RD.	—	ROAD
REINF.	—	REINFORCE
REV.	—	REVISION
RFG.	—	ROOFING
RH	—	RIGHT HAND
Ri	—	RISER
RM.	—	ROOM
RO	—	ROUGH OPENING
ROW	—	RIGHT OF WAY
RV	—	ROOF VENT

S

SAN.	—	SANITARY
SC	—	SOLID CORE
SCLG	—	SUSPENDED CEILING
SCHED.	—	SCHEDULE
SCP	—	SMOOTH CEMENT PLASTER
SCWD	—	SOLID CORE WOOD
SD	—	SMOKE DETECTOR
SL	—	SEA LEVEL
SF	—	SQUARE FOOT
SGL.	—	SINGLE
SHT.	—	SHEET
SIM.	—	SIMILAR
SQ. FT.—		SQUARE FOOT
SQ. IN.—		SQUARE INCH
SQ. YD.—		SQUARE YARD
SP	—	STAND PIPE
SPECS.	—	SPECIFICATIONS
SS	—	STORM SEWER
S/S	—	STAINLESS STEEL
ST.	—	STREET
STR.	—	STAIR
STO.	—	STORAGE
STD.	—	STANDARD
STL.	—	STEEL
STRUC.	—	STRUCTURAL
SUSP.	—	SUSPENDED
SW.	—	SWITCH
SWR.	—	SEWER

T

T/	—	TOP OF
TD	—	TRENCH DRAIN
TEL.	—	TELEPHONE
TEMP.	—	TEMPORARY
TERM.	—	TERMINAL
THK	—	THICK/-NESS
THRU.	—	THROUGH
TR.	—	TREAD
TS	—	TUBE STEEL
TV.	—	TELEVISION
TYP.	—	TYPICAL

U

UNO	—	UNLESS NOTED OTHERWISE
UR.	—	URINAL
UTIL.	—	UTILITY

V

VAN.	—	VANITY
VAR.	—	VARIES
VCT	—	VINYL CONPOSITION TILE
VERT.	—	VERTICAL/-LY
VEST	—	VESTIBULE
VIF	—	VERIFY IN FIELD
VOL.	—	VOLUME
VS	—	VENT STACK
VWC	—	VINYL WALL COVERING

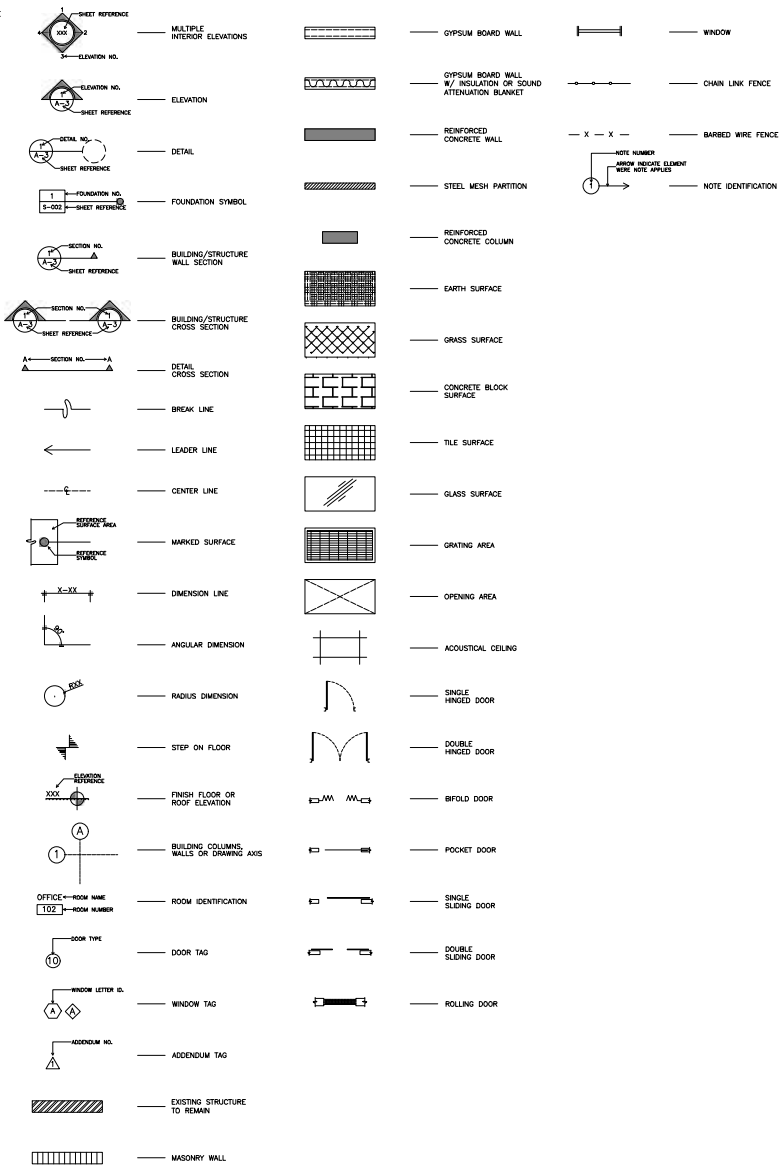
W

W/	—	WITH
W/O	—	WITHOUT
W/W	—	WALL TO WALL
WC	—	WATER CLOSET
WD.	—	WOOD
WH	—	WATER HEATER
WT.	—	WEIGHT
WWF	—	WELDED WIRE FABRIC

Y

YD	—	YARD DRAIN

GENERAL SYMBOLS LEGEND:



PROJECT ADDRESS

ELDERLY SERVICE CENTER
CALLE FERROCARRIL #11 BO. PUEBLO, LAJAS, P.R. 00667

GPS LATITUDE/LONGITUDE: 18.049416.08, -67.05761236

OWNER

LAJAS MUNICIPALITY

REGISTER No.

358-032-072-01

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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CERTIFICATION

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Tel. (787) 918-5990 / 5991
Email: info@ingeniumpr.com

SIGNATURE

William Melendez Rivas — Engineer — Licensed — Lic. 16353 — Puerto Rico

FILE

Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE

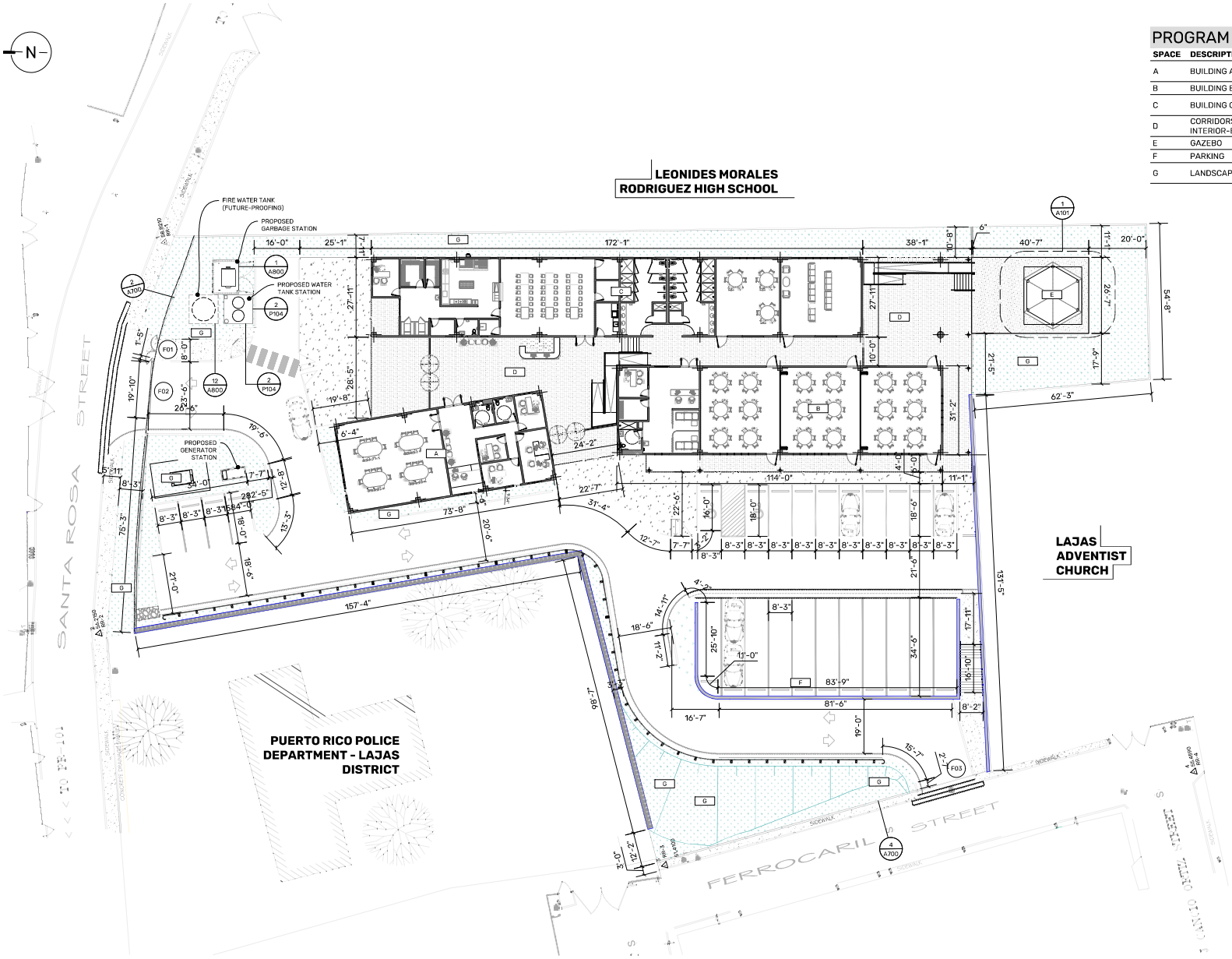
ARCHITECTURAL NOTES

DRAWING No.

A001

PAGE: 23 /89

P R O P O S E D G R O U N D S I T E P L A N



PROGRAM AREA

SPACE	DESCRIPTION	SQ.FT.
A	BUILDING A	2,335 SQ. FT.
B	BUILDING B	3,555 SQ. FT.
C	BUILDING C	4,764 SQ. FT.
D	CORRIDORS INTERIOR-EXTERIOR	5,726 SQ. FT.
E	GAZEBO	350 SQ. FT.
F	PARKING	16,100 SQ. FT.
G	LANDSCAPE	8,800 SQ. FT.

1 PROPOSED GROUND SITE PLAN
SCALE: 1/16" = 1'-0"

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ELDERLY SERVICE CENTER
CALLE FERROCARRIL #11 BO. PUEBLO.
LAJAS, P.R. 00667

GPS LATITUDE/LONGITUDE:
18.04941608, -67.05761236

OWNER
LAJAS MUNICIPALITY

REGISTER No.
3 5 8 - 0 3 2 - 0 7 2 - 0 1

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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IMPORTANT NOTES TO THE CONTRACTOR:
CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE PROCEEDING WITH WORK. IF ANY DISCREPANCIES, ERRORS OR OMISSIONS SHOULD BE ENCOUNTERED ON PLANS, CONTRACTOR SHALL NOTIFY THE ENGINEER BEFORE ANY PART OF THE WORK IS STARTED SO THAT PROPER CORRECTIONS ARE MADE. IF ENGINEER IS NOT NOTIFIED PRIOR TO COMMENCING OF THE WORK, ALL DESIGNS AND DRAWINGS HEREIN AND PRINTS ISSUED BY THE ENGINEER ARE THE PROPERTY OF THE ENGINEER AND SHALL NOT BE REUSED ON ANY OTHER LOCATION EXCEPT THE ONE FOR WHICH THEY EXPRESSLY DESIGNED. IF THESE DRAWINGS OR ANY PART THEREOF IS REPRODUCED WITHOUT THE CONSENT OF THE ENGINEER, THE PERSON WHO IS DOING WILL BE PROHIBITED TO THE ENGINEER FOR HIS FULL COMMISSION. CONTRACTOR SHALL NOT USE FOR CONSTRUCTION PURPOSES ANY DRAWINGS THAT WERE ADVANCE TO HIM PRIOR TO THE BEGINNING OF CONSTRUCTION. ALL PLANS BEING USED BY CONTRACTOR SHOULD HAVE A LABEL SAYING "FOR CONSTRUCTION ONLY" SIGNED AND SEALED BY THE ENGINEER.

CERTIFICATION
I, WILLIAM MELENDEZ RIVAS, LIC. 16363, CERTIFY THAT I AM THE PROFESSIONAL WHO MADE, DESIGNED OR PREPARED THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 14-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY" AND WITH THE LAW NO. 319 OF MAY 15, 1938, AS AMENDED, ACT NO. 96 OF JULY 6, 1976, AS AMENDED; AS APPLICABLE. I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY KNOWANCE OR NEGLIGENCE EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE OGPE.

INGENIUM
PROFESSIONAL GROUP
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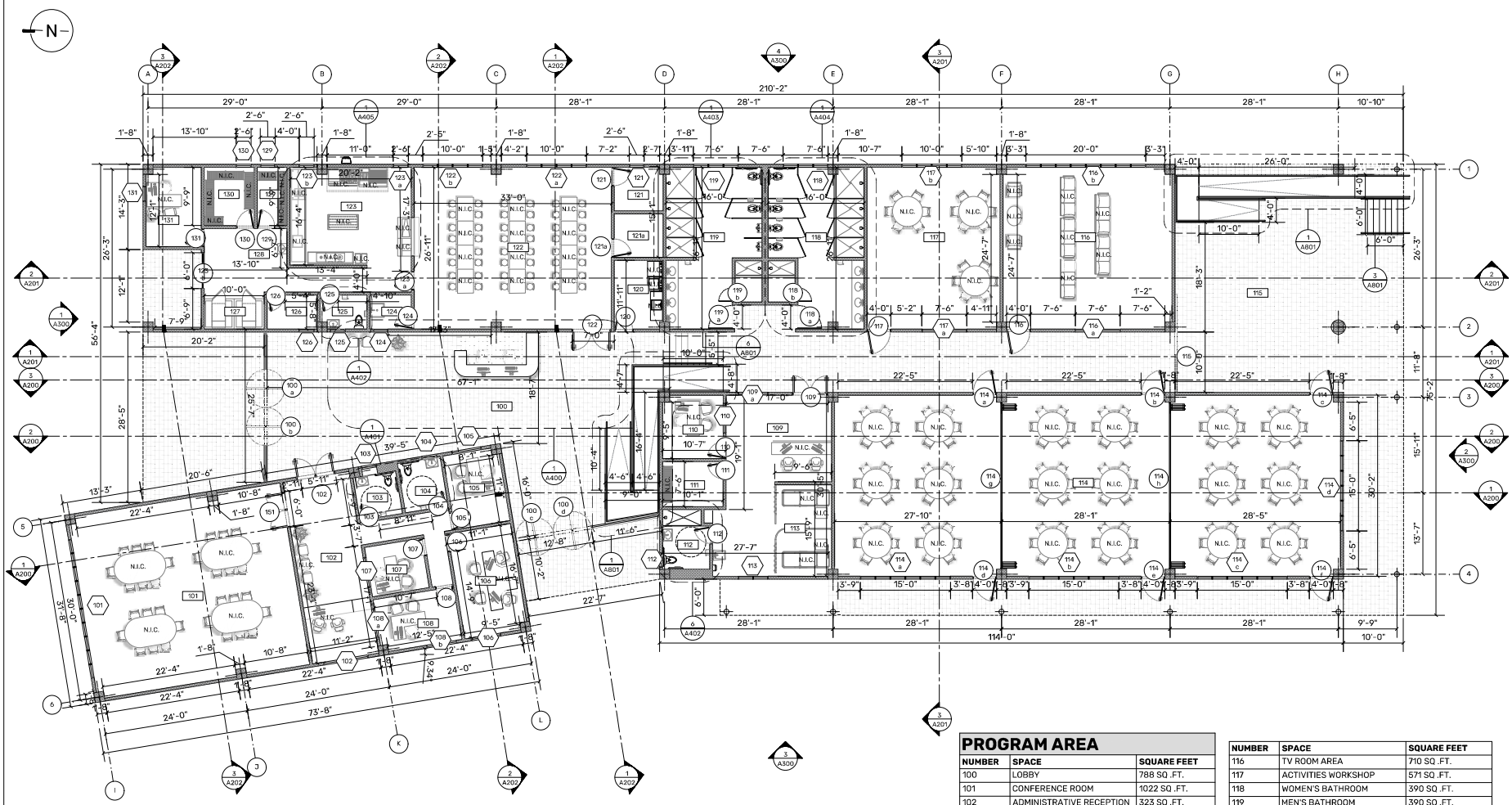
Tel.(787) 936-5892 / 5891
Email info@ingenium.group

SIGNATURE
William Melendez Rivas
Ingeniero Licenciado
Lic. 16363 - 19
Puerto Rico

FILE
Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
PROPOSED GROUND SITE PLAN

DRAWING No.
A002



1 PROPOSED GROUND FLOOR PLAN_BLDG 01, 02 & 03

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

NOTES

- FURNITURE AND REMOVABLE EQUIPMENT ILLUSTRATED AND MARKED N.I.C. (NOT IN CONTRACT), WILL NOT BE INCLUDED IN THE BASE BID FOR THE CONSTRUCTION CONTRACT. IT IS PROVIDED AS A DESIGN REFERENCE FOR ELECTRICAL AND MECHANICAL EQUIPMENT COORDINATION ONLY.

PROGRAM AREA

NUMBER	SPACE	SQUARE FEET
100	LOBBY	788 SQ .FT.
101	CONFERENCE ROOM	1022 SQ .FT.
102	ADMINISTRATIVE RECEPTION	323 SQ .FT.
103	RESTROOM 1	52 SQ .FT.
104	RESTROOM 2	52 SQ .FT.
105	OFFICE_1	98 SQ .FT.
106	OFFICE_2	171 SQ .FT.
107	OFFICE_3	112 SQ .FT.
108	OFFICE_4	79 SQ .FT.
109	NURSING RECEPTION	242 SQ .FT.
110	NURSING OFFICE	94 SQ .FT.
111	NURSING STORAGE	71 SQ .FT.
112	NURSING BATHROOM	73 SQ .FT.
113	NURSING AREA	266 SQ .FT.
114	ACTIVITY AREA	2434 SQ .FT.
115	TERRACE	627 SQ .FT.

NUMBER	SPACE	SQUARE FEET
116	TV ROOM AREA	710 SQ .FT.
117	ACTIVITIES WORKSHOP	571 SQ .FT.
118	WOMEN'S BATHROOM	390 SQ .FT.
119	MEN'S BATHROOM	390 SQ .FT.
120	LAUNDRY	92 SQ .FT.
121	STORAGE	59 SQ .FT.
121a	ELECTRIC ROOM	59 SQ .FT.
122	LUNCH AREA	850 SQ .FT.
123	KITCHEN	317 SQ .FT.
124	UTILITY ROOM	34 SQ .FT.
125	KITCHEN BATHROOM	39 SQ .FT.
126	DISPOSABLE STORAGE	42 SQ .FT.
127	WALK IN FREEZER	55 SQ .FT.
128	LAVATORY	35 SQ .FT.
129	CHEMICAL STORAGE	45 SQ .FT.
130	DRY STORAGE	75 SQ .FT.
131	KITCHEN OFFICE	115 SQ .FT.
TOTAL		**10382 SQ .FT.**

PROJECT ADDRESS
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REGISTER No.
358-032-072-01

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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SIGNATURE

William Melendez Rivas
Lic. 16383
Puerto Rico

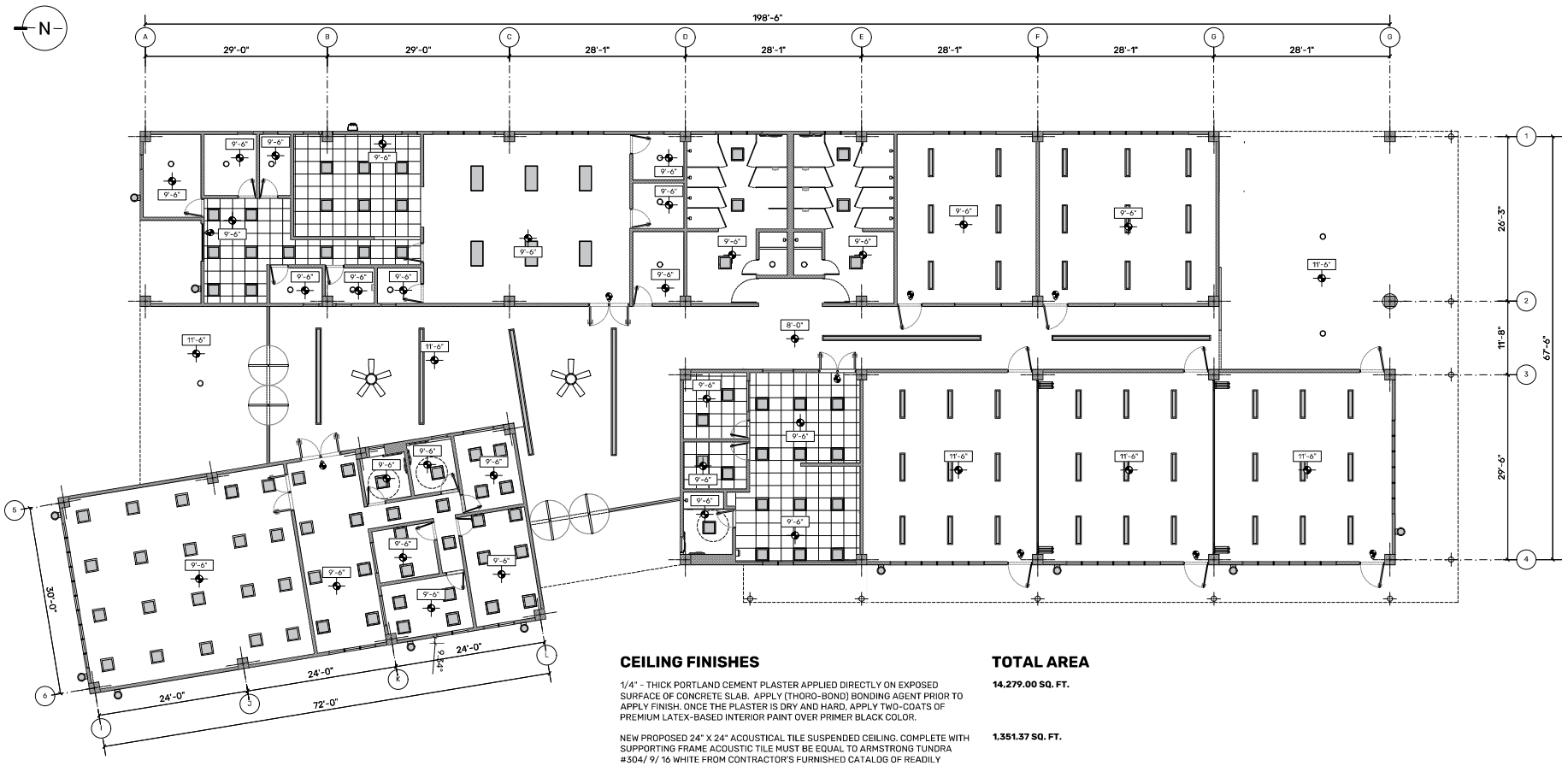
FILE

Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
PROPOSED GROUND FLOOR PLAN_BLDG 01 02 & 03

DRAWING No.
A100

P R O P O S E D R E F L E C T E D C E I L I N G



CEILING FINISHES

1/4" - THICK PORTLAND CEMENT PLASTER APPLIED DIRECTLY ON EXPOSED SURFACE OF CONCRETE SLAB. APPLY (THORO-BOND) BONDING AGENT PRIOR TO APPLY FINISH. ONCE THE PLASTER IS DRY AND HARD, APPLY TWO-COATS OF PREMIUM LATEX-BASED INTERIOR PAINT OVER PRIMER BLACK COLOR.

NEW PROPOSED 24" X 24" ACOUSTICAL TILE SUSPENDED CEILING. COMPLETE WITH SUPPORTING FRAME ACOUSTIC TILE MUST BE EQUAL TO ARMSTRONG TUNDRA #304/ 9/ 16 WHITE FROM CONTRACTOR'S FURNISHED CATALOG OF READILY AVAILABLE MODELS. ALL TILES SHALL BE. SAG-RESISTANT AND FIRE-RATED.

TOTAL AREA

14,279.00 SQ. FT.

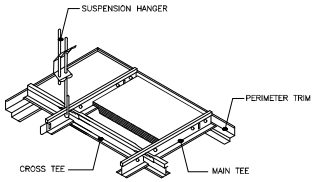
1,351.37 SQ. FT.

1 PROPOSED REFLECTED CEILING

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

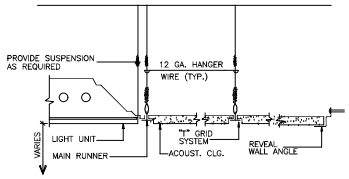
NOTES ON CEILING INTERVENTION:

1. CEILING SYSTEM MUST BE INSTALLED ACCORDING TO NFPA STANDARDS. CONTRACTOR MUST SUBMIT FINAL LAYOUT FROM THE EQUIPMENT OF THE NEW SYSTEM. THE INTERIOR CONTRACTOR MUST ENSURE THAT ALL THE PERIMETER (DEMISING) WALLS OF THE LOCAL, REMAINS IN GOOD CONDITIONS TO RECEIVE THE NEW CEILING SYSTEM.
2. QUANTITY AND LOCATION OF SMOKE DETECTION DEVICES SHOWN IN THIS PLAN IS SUGGESTED FURNISHER, COMPLETE WITH THE CORRESPONDENT CODE COMPLIANCE CERTIFICATION. CHANGES TO SUGGESTED LAYOUT ARE ACCEPTABLE IN AS MUCH AS THEY LIE WITHIN FURNISHER'S CERTIFICATION.
3. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THE ARCHITECT AWARE OF ANY QUESTIONS OR DISCREPANCIES REGARDING THE SCOPE OF WORK, EXISTING CONDITIONS, AND/OR INTENT. A WRITTEN CLARIFICATION FROM THE ARCHITECT IS REQUIRED PRIOR TO PROCEEDING WITH THE WORK IN QUESTION.
4. IBC CATEGORY D: INSTALLATION REQUIREMENTS FOR CLASS D-TO ASTM C636 AND ASTM E580
   - 4.1. MINIMUM 2" WALL MOLDING
   - 4.2. SUSPENSION SYSTEM MUST BE ATTACHED TO TWO ADJACENT WALLS-OPPOSITEWALLS MUST HAVE A 3/4" CLEARANCE
   - 4.3. ENDS OF MAIN BEAMS AND CROSS TEES MUST BE TIED TOGETHER TO PREVENT THEIR SPREADING
   - 4.4. HEAVY-DUTY SUSPENSION SYSTEM
   - 4.5. CEILING AREAS OVER 1,000 SF MUST HAVE HORIZONTAL RESTRAINT WIRE OR RIGID BRACING
   - 4.6. CEILING AREAS OVER 2,500 SF MUST HAVE SEISMIC SEPARATION JOINTS OR FULL HEIGHT PARTITIONS
   - 4.7. CEILINGS WITHOUT RIGID BRACING MUST HAVE 2" OVERSIZED TRIM RINGS FOR PENETRATIONS
   - 4.8. CHANGES IN CEILING PLANE MUST HAVE POSITIVE BRACING
   - 4.9. CABLE TRAYS AND ELECTRICAL CONDUITS MUST BE INDEPENDENTLY SUPPORTED AND BRACED
   - 4.10. PERIMETER SUPPORT WIRES WITHIN 8"
5. FOR ELECTRICAL AND MECHANICAL SPECIFICATIONS REFER TO ELECTRICAL AND MECHANICAL PLANS.
6. ALL MEASUREMENTS ARE MINIMUM TO COMPLY WITH CODE. DO NOT SCALE DRAWINGS. CONTRACTOR MUST SUBMIT AN RFI TO THE ARCHITECT OF RECORD FOR CLARIFICATION.



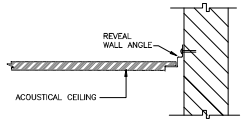
2 TYPICAL SUSPENDED CEILING INSTALLATION

SCALE: NOT TO SCALE



3 TYPICAL SUSPENDED CEILING INSTALLATION

SCALE: NOT TO SCALE



4 SUSPENDED CEILING MEETING WALL

SCALE: NOT TO SCALE

PROJECT ADDRESS
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SIGNATURE

William Melendez Rivas
Ingeniero
Licenciado
Lic. 16383
Puerto Rico

FILE

Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

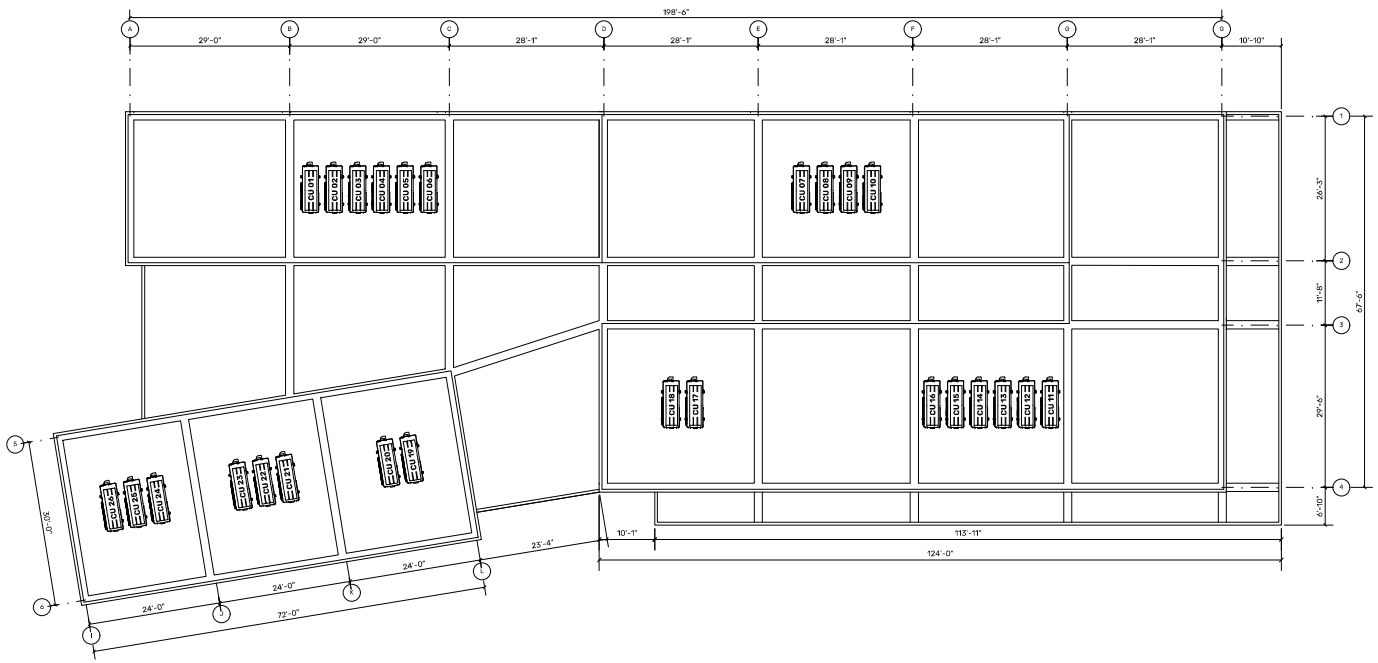
TITLE

PROPOSED REFLECTED CEILING

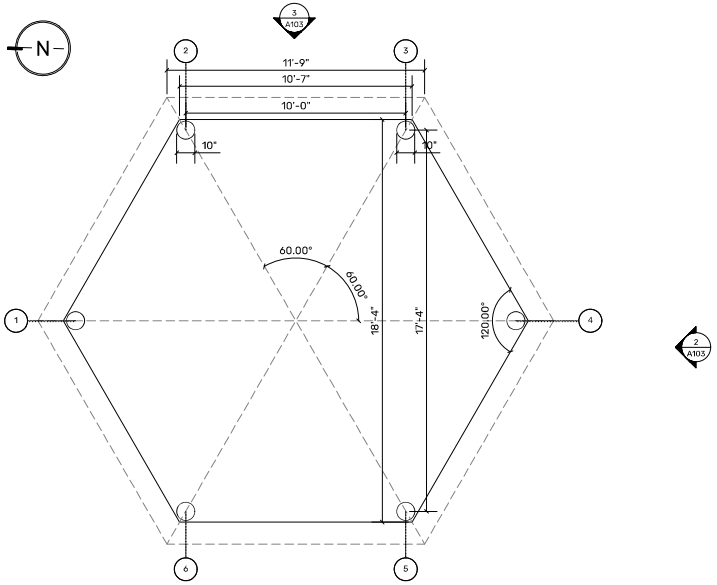
DRAWING No.

A101

P R O P O S E D R O O F P L A N

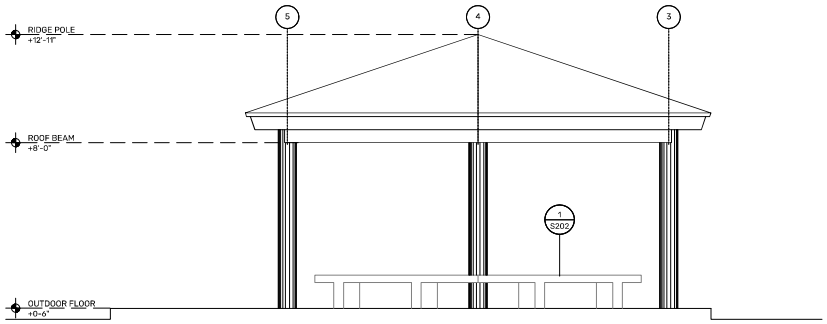


P R O P O S E D G A Z E B O _ B L O W U P



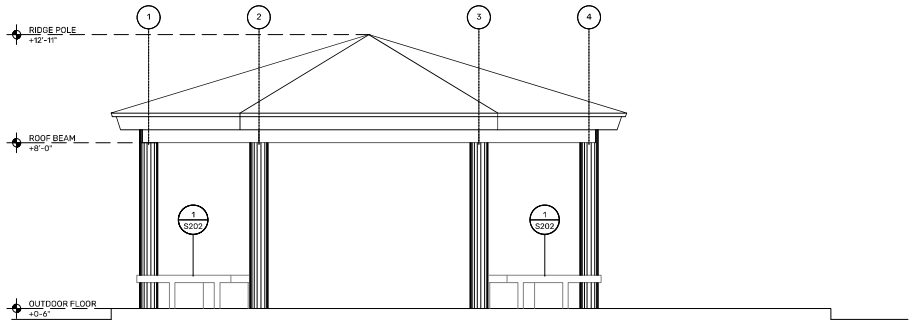
1 PROPOSED GAZEBO FLOOR PLAN

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



2 PROPOSED GAZEBO ELEVATION

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



3 PROPOSED GAZEBO ELEVATION

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

PROJECT ADDRESS

ELDERLY SERVICE CENTER
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OWNER

LAJAS MUNICIPALITY

REGISTER No.

3 5 8 - 0 3 2 - 0 7 2 - 0 1

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Tel: (787) 996-6890 / 6891
Email: info@ingenium.group

SIGNATURE

FILE

Dwg Name: INGENIUM GROUP

Drawn by: INGENIUM GROUP

Revised by: ING. WILLIAM MELENDEZ

Plot Scale: AS SHOWN

Progress Print:

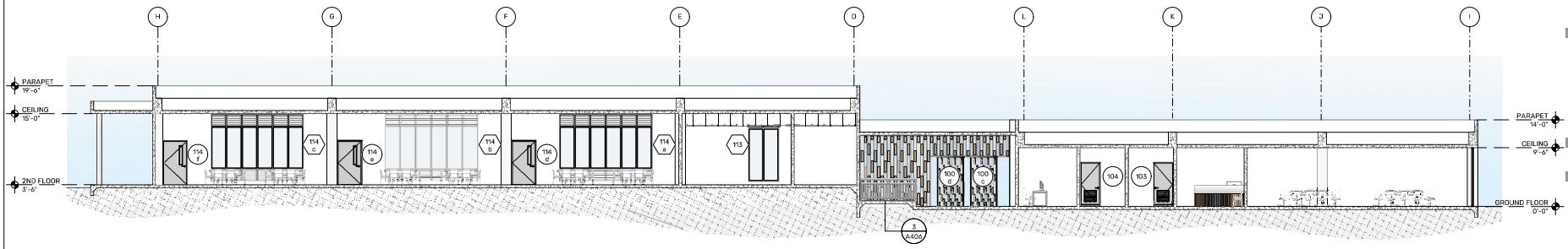
TITLE

PROPOSED GAZEBO_BLOW UP

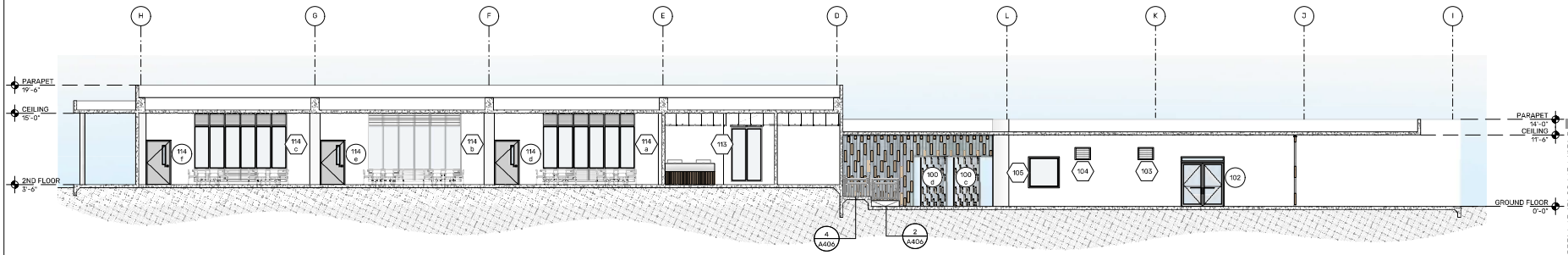
DRAWING No.

A103

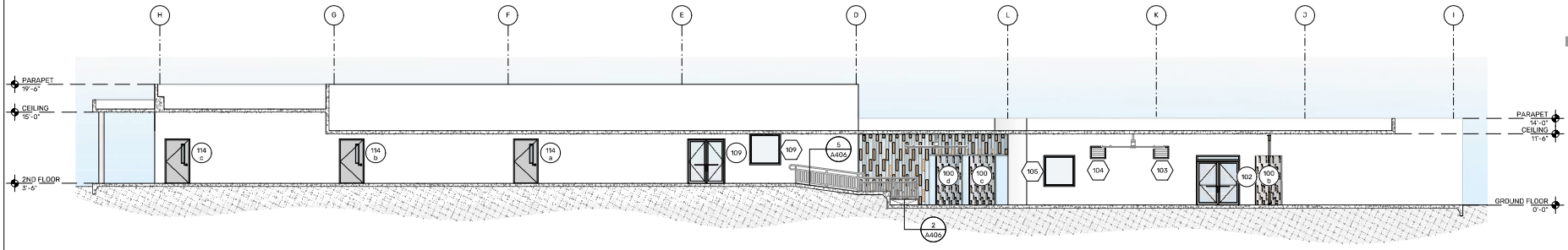
P R O P O S E D S E C T I O N S



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



2 PROPOSED SECTION
SCALE: 1/8" = 1'-0"



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

PROJECT ADDRESS
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CERTIFICATION

I, WILLIAM MELENDEZ RIVAS, LIC. 16383, CERTIFY THAT I AM THE PROFESSIONAL WHO IMADE, DESIGNED OR PREPARED THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE IN THE ASTACITS, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 14-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY AND WITH THE LEAW NO. 319 OF MAY 15, 1938, AS AMENDED; ACT NO. 96 OF JULY 6, 1978, AS AMENDED; AS APPLICABLE. I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY ENGRANDE OF NEGLIGENCE EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THIS DEPE.

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Tel. (787) 765-0890 / 0891
www.ii.info@ingenium.group

SIGNATURE

William Melendez Rivas
Ingeniero
Licenciado
Lic. 16383
Puerto Rico

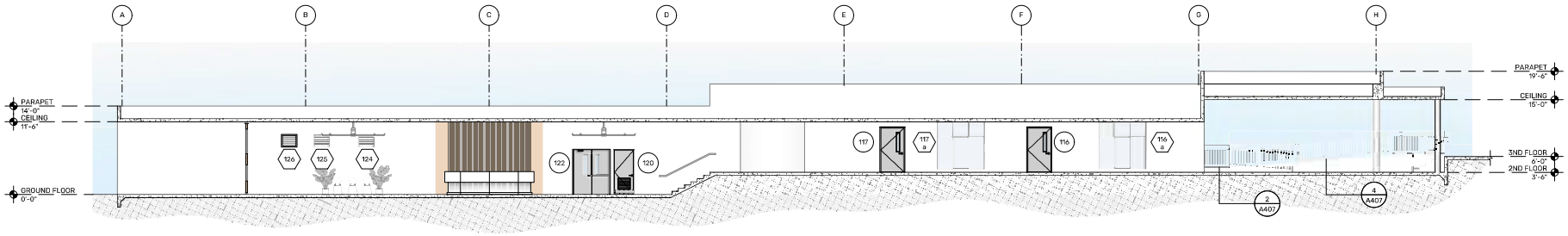
FILE

Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

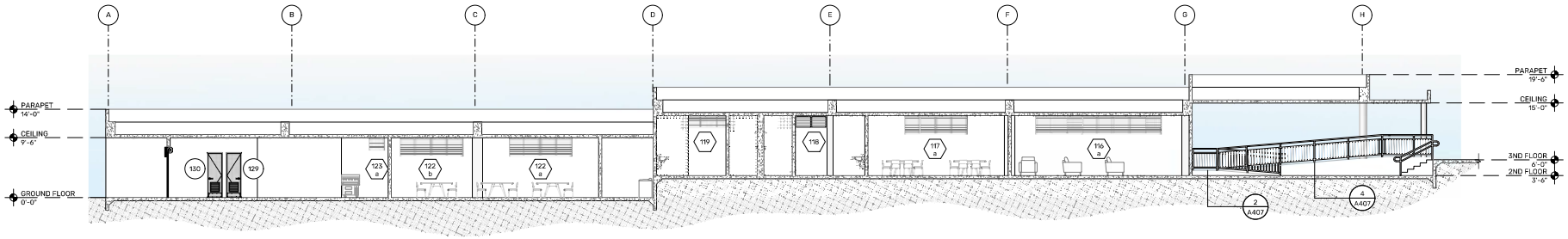
TITLE
PROPOSED GROUND FLOOR PLAN_OPTION 3

DRAWING No.
A200

P R O P O S E D S E C T I O N S



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



2 PROPOSED SECTION
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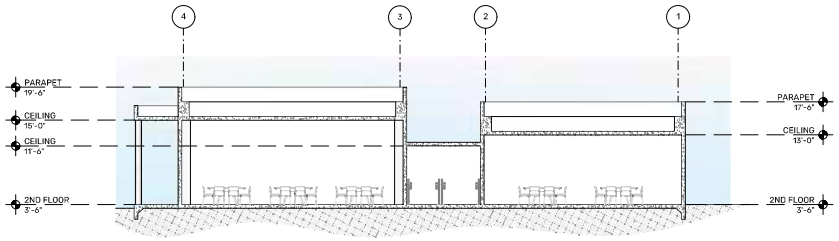

3 PROPOSED SECTION
SCALE: 1/8" = 1'-0"

PROJECT ADDRESS
ELDERLY SERVICE CENTER
CALLE FERROCARRIL #11 BO. PUEBLO,
LAJAS, P.R. 00667

GPS LATITUDE/LONGITUDE:
18.04941608, -67.05761236

OWNER
LAJAS MUNICIPALITY

REGISTER No.
3 5 8 - 0 3 2 - 0 7 2 - 0 1

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
--	--	--	--	--

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SIGNATURE

William Melendez Rivas
Lic. 16383
Puerto Rico

FILE

Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

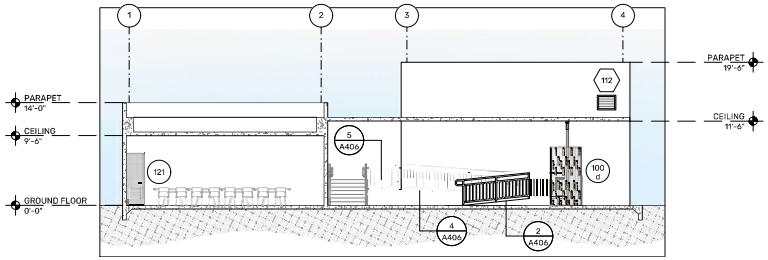
TITLE

PROPOSED GROUND FLOOR PLAN_OPTION 3

DRAWING No.

A201

P R O P O S E D S E C T I O N S



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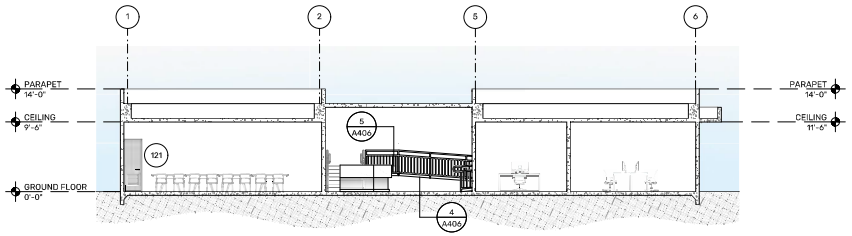
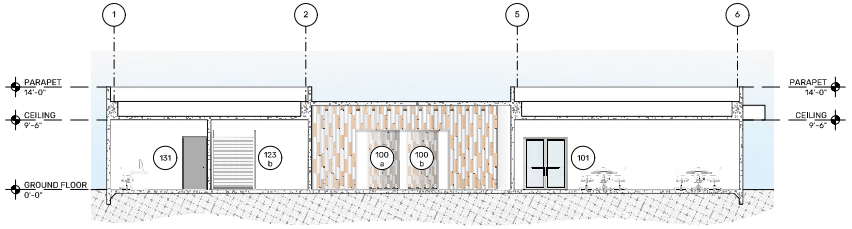
SCALE: 1/8" = 1'-0"



2 PROPOSED SECTION
SCALE: 1/8" = 1'-0"



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

PROJECT ADDRESS

ELDERLY SERVICE CENTER
CALLE FERROCARRIL #11 BO. PUEBLO,
LAJAS, P.R. 00667

GPS LATITUDE/LONGITUDE:
18.04941608, -67.05761236

OWNER

LAJAS MUNICIPALITY

REGISTER No.

3 5 8 - 0 3 2 - 0 7 2 - 0 1

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
--	--	--	--	--

IMPORTANT NOTES TO THE CONTRACTOR:

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CERTIFICATION

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Tel. (787) 918-6800 / 6801
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SIGNATURE

William Melendez Rivas
Ingeniero Licenciado
Lic. 16383
Puerto Rico

FILE

Dwg Name: INGENIUM GROUP

Drawn by: INGENIUM GROUP

Revised by: ING. WILLIAM MELENDEZ

Plot Scale: AS SHOWN

Progress Print:

TITLE

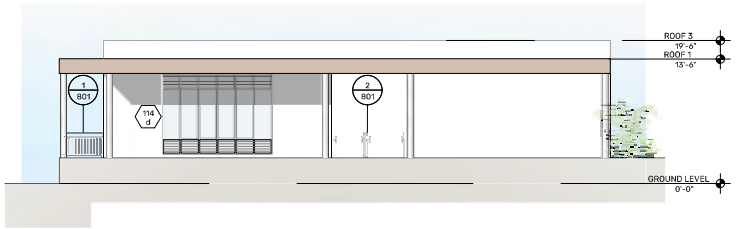
PROPOSED GROUND FLOOR PLAN_OPTION 3

DRAWING No.

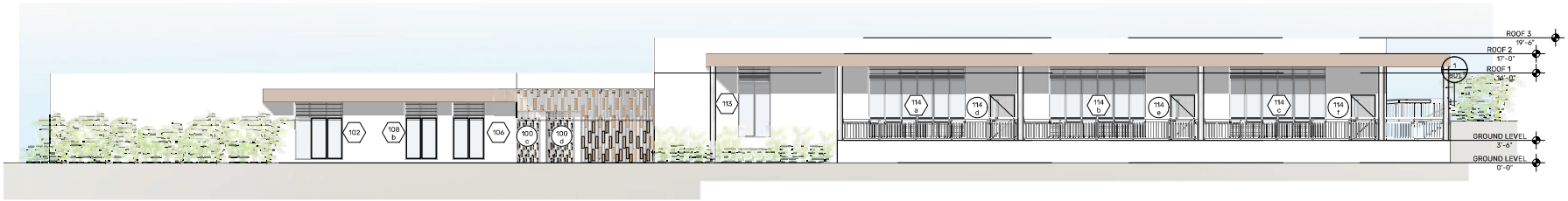
A202

P R O P O S E D E L E V A T I O N S

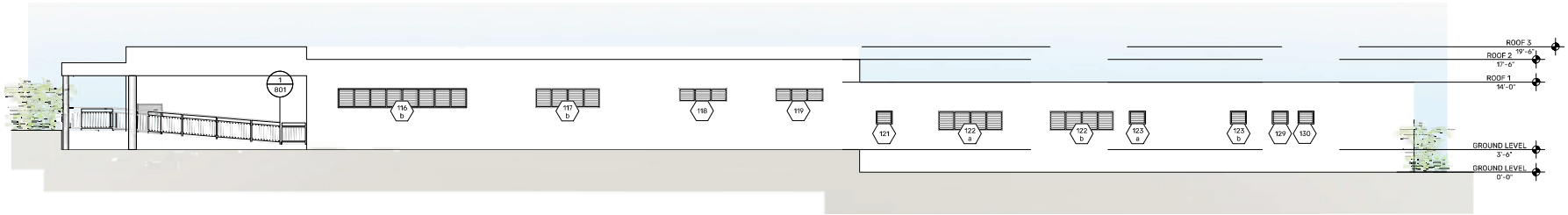
1 PROPOSED ELEVATION
SCALE: 1/8" = 1'-0"



2 PROPOSED ELEVATION
SCALE: 1/8" = 1'-0"



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



4 PROPOSED ELEVATION
SCALE: 1/8" = 1'-0"

PROJECT ADDRESS
ELDERLY SERVICE CENTER
CALLE FERROCARRIL #11 BO. PUEBLO,
LAJAS, P.R. 00667

GPS LATITUDE/LONGITUDE:
18.04941608, -67.05761236

OWNER
LAJAS MUNICIPALITY

REGISTER No.
3 5 8 - 0 3 2 - 0 7 2 - 0 1

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
--	--	--	--	--

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SIGNATURE

William Melendez Rivas
Ingeniero
Lic. 16383
Puerto Rico

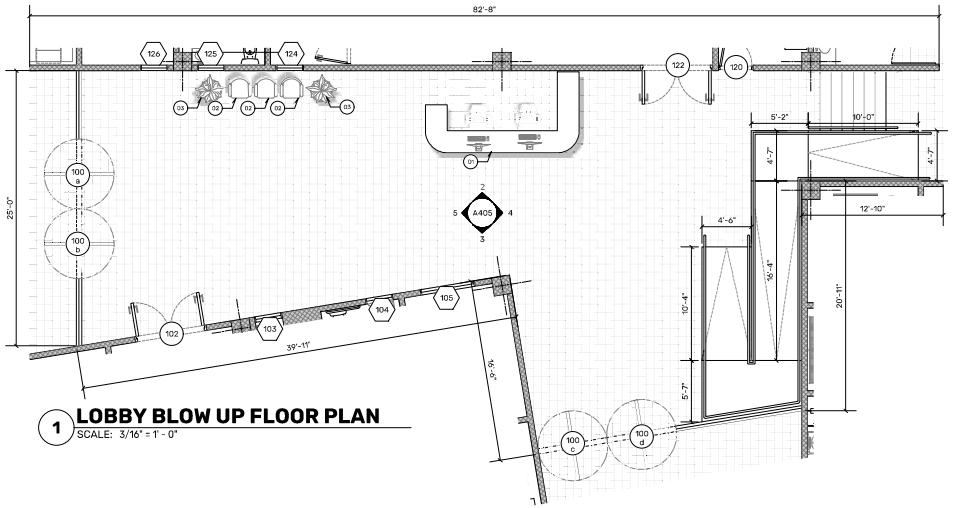
FILE

Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

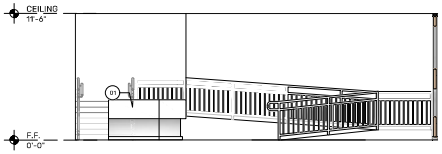
TITLE
PROPOSED GROUND FLOOR PLAN_OPTION 3

DRAWING No.
A300

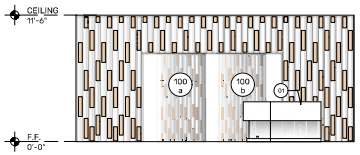
L O B B Y _ B L O W U P



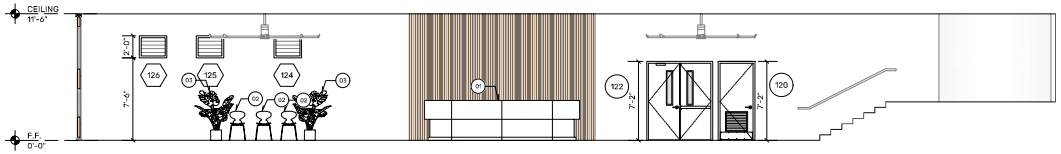
1 LOBBY BLOW UP FLOOR PLAN
SCALE: 3/16" = 1' - 0"



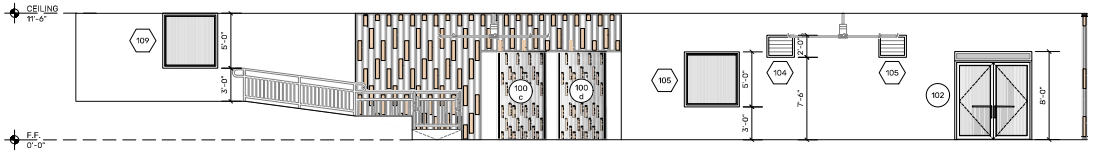
4 LOBBY INTERIOR ELEVATION
SCALE: 3/16" = 1' - 0"



5 LOBBY INTERIOR ELEVATION
SCALE: 3/16" = 1' - 0"



2 LOBBY INTERIOR ELEVATION
SCALE: 3/16" = 1' - 0"



3 LOBBY INTERIOR ELEVATION
SCALE: 3/16" = 1' - 0"

AMENITY SCHEDULE

NUM	ITEM	QTY	DESCRIPTION
01	SERVICE COUNTER	1	N.I.C.
02	METAL CHAIRS	3	N.I.C.
03	DECORATION PLANTS	2	N.I.C.
NOTE: N.I.C. = NON IN CONTRACT			

PROJECT ADDRESS
ELDERLY SERVICE CENTER
CALLE FERROCARRIL #11 BO. PUEBLO,
LAJAS, P.R. 00667

GPS LATITUDE/LONGITUDE:
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OWNER
LAJAS MUNICIPALITY

REGISTER No.
3 5 8 - 0 3 2 - 0 7 2 - 0 1

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
--	--	--	--	--

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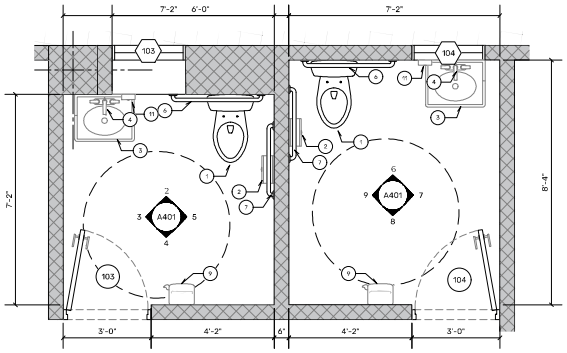
654 Plaza, San Juan, PR 00738
tel. (787) 919-5890 / 5891
Email: info@ingeniusgroup

SIGNATURE
William Melendez Rivas
Ingeniero
Licenciado
Lic. 16683
Puerto Rico

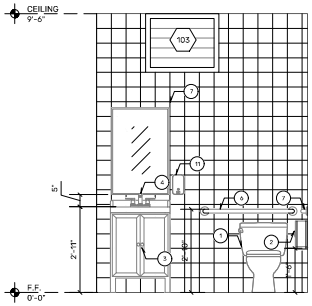
FILE
Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
LOBBY_BLOW UP

DRAWING No.
A400



1 RESTROOM INT. ELEV.
SCALE: 1/2" = 1' - 0"



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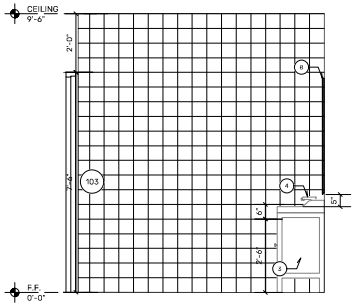
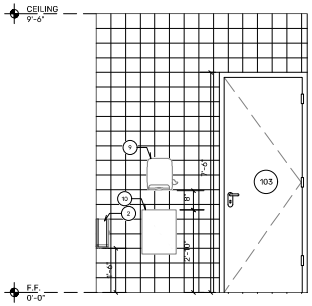
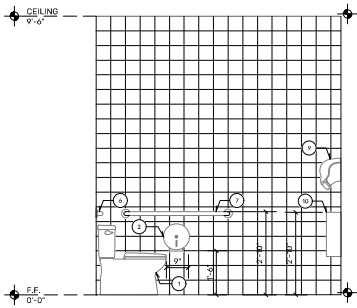
SCALE: 1/2" = 1' - 0"



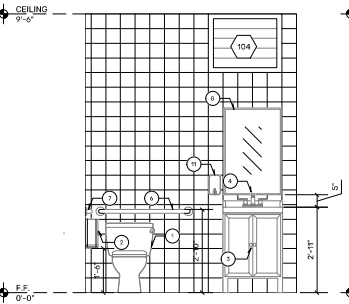
3 RESTROOM INT. ELEV.
SCALE: 1/2" = 1' - 0"



4 RESTROOM INT. ELEV.
SCALE: 1/2" = 1' - 0"



5 RESTROOM INT. ELEV.
SCALE: 1/2" = 1' - 0"



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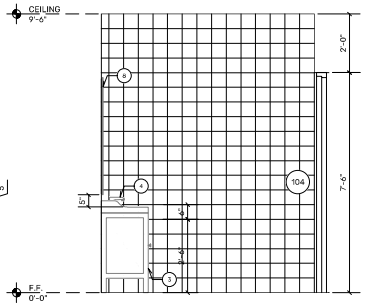
SCALE: 1/2" = 1' - 0"



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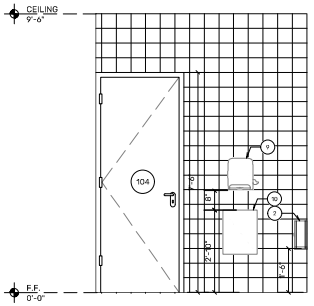

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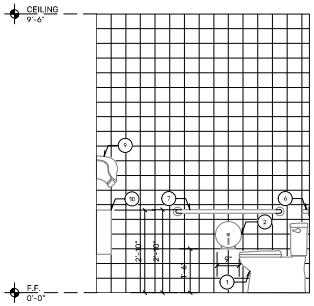
SCALE: 1/2" = 1' - 0"



9 RESTROOM INT. ELEV.
SCALE: 1/2" = 1' - 0"

RESTROOM FIXTURES & ACCESSORIES SCHEDULE

NO.	ITEM	QTY.	MANUFACTURER	MODEL NO.	MATERIAL	COMMENTS
1	FLOOR MOUNTED TOILET	2	KOHLER	K31668-0	CERAMIC/ PORCELAIN	1.28 GPF WHITE
2	TOILET PAPER HOLDER	2	BOBRICK	B-2890	STAINLESS STEEL	SURFACE MOUNTED, JUMBO-ROLL
3	VANITY SINK	2	GLACIER BAY	GB24P2-WH	-	VANITY WITH WASHBASIN-TWO DOORS
4	FAUCET	2	GLACIER BAY	HDQF51A113 0CP	CHROME	IRENA 4IN CENTERSET 2 HANDLE
5	GRAB BAR 18 IN	1	BOBRICK	B5806x18	STAINLESS STEEL	1-1/2" DIAMETER TUBING
6	GRAB BAR 36 IN	1	BOBRICK	B5806x36	STAINLESS STEEL	1-1/2" DIAMETER TUBING
7	GRAB BAR 42 IN	1	BOBRICK	B5806x42	STAINLESS STEEL	1-1/2" DIAMETER TUBING
8	WALL MIRROR	2	RHODES	218070	STAINLESS STEEL	CLASSIC RECTANGLE FRAMED WHITE WALL ACCENT MIRROR
9	PAPER TOWEL DISPENSER	2	SAN JAMAR	SJMT950TBK	BLACK	ELEMENT BLACK LEVER ROLL TOWEL DISPENSER
10	TRASH CAN	2	ALPINE INDUSTRIES	491	STAINLESS STEEL	6 gals. MOUNTED WASTE RECEPTACLE TRASH CAN
11	SOAP DISPENSER	2	BOBRICK	B-2111	STAINLESS STEEL	40-FL OZ. WALL TO PUSH-BUTTON

IMPORTANT NOTE:

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LAJAS, P.R. 00667

GPS LATITUDE/LONGITUDE:
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OWNER
LAJAS MUNICIPALITY

REGISTER No.
358-032-072-01

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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CERTIFICATION

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tel. (787) 919-4890 / 4891
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SIGNATURE

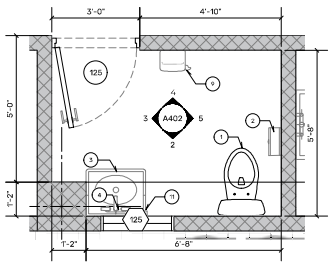
William Melendez Rivas
Ingeniero
Licenciado
Lic. 16583
Puerto Rico

FILE

Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
RESTROOMS [ADMIN AREA]_BLOW UP

DRAWING No.
A401



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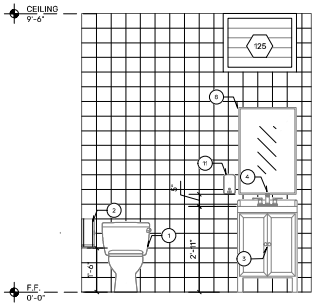
SCALE: 1/2" = 1' - 0"



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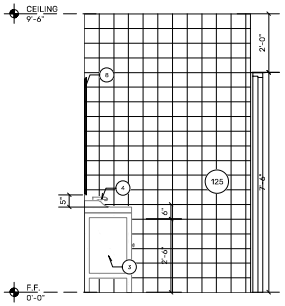

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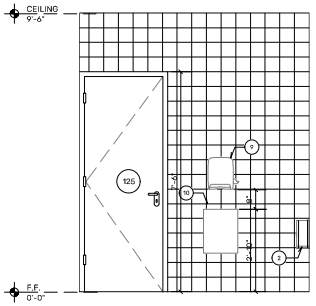

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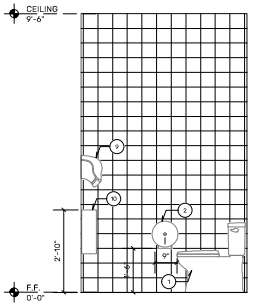

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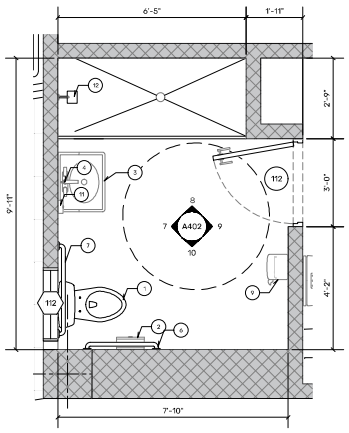

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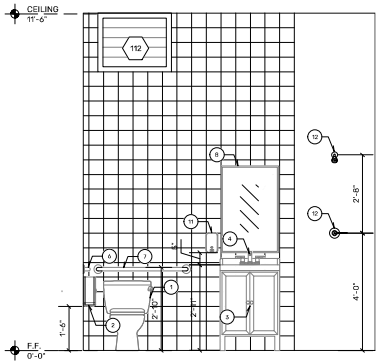
SCALE: 1/2" = 1' - 0"



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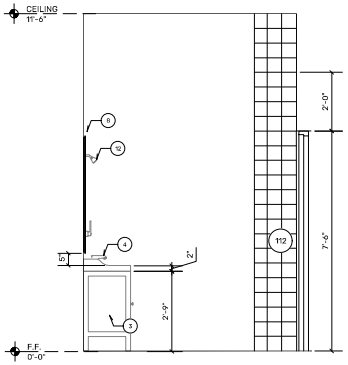

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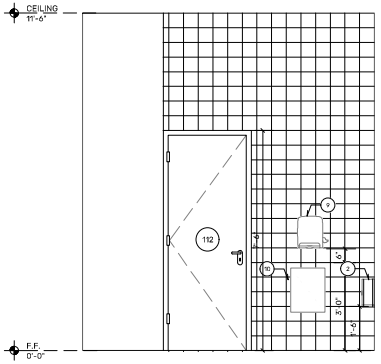

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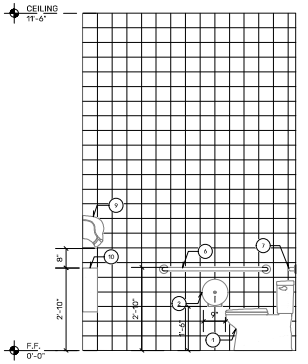
SCALE: 1/2" = 1' - 0"



10 RESTROOM INT. ELEV.
SCALE: 1/2" = 1' - 0"

RESTROOM FIXTURES & ACCESSORIES SCHEDULE

NO.	ITEM	QTY.	MANUFACTURER	MODEL NO.	MATERIAL	COMMENTS
1	FLOOR MOUNTED TOILET	2	KOHLER	K31668-0	CERAMIC/ PORCELAIN	1.28 GPF WHITE
2	TOILET PAPER HOLDER	2	BOBRICK	B-2890	STAINLESS STEEL	SURFACE MOUNTED, JUMBO-ROLL
3	VANITY SINK	2	GLACIER BAY	GB24P2-WH	-	VANITY WITH WASHBASIN-TWO DOORS
4	FAUCET	2	GLACIER BAY	HDQF51A1130 CP	CHROME	IRENA 4IN CENTERSET 2 HANDLE
5	GRAB BAR 18 IN	1	BOBRICK	B5806x18	STAINLESS STEEL	1-1/2" DIAMETER TUBING
6	GRAB BAR 36 IN	1	BOBRICK	B5806x36	STAINLESS STEEL	1-1/2" DIAMETER TUBING
7	GRAB BAR 42 IN	1	BOBRICK	B5806x42	STAINLESS STEEL	1-1/2" DIAMETER TUBING
8	WALL MIRROR	2	RHODES	218070	STAINLESS STEEL	CLASSIC RECTANGLE FRAMED WHITE WALL ACCENT MIRROR
9	PAPER TOWEL DISPENSER	2	SAN JAMAR	SJMT950TBK	BLACK	ELEMENT BLACK LEVER ROLL TOWEL DISPENSER
10	TRASH CAN	2	ALPINE INDUSTRIES	491	STAINLESS STEEL	6 gals. MOUNTED WASTE RECEPTACLE TRASH CAN
11	SOAP DISPENSER	2	BOBRICK	B-2111	STAINLESS STEEL	40-FL OZ. WALL TO PUSH-BUTTON
12	SHOWER FAUCET	1	ARAGON	HD834X-0001	CHROME	VALVE INCLUDED

IMPORTANT NOTE:

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OWNER
LAJAS MUNICIPALITY

REGISTER No.
358-032-072-01

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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CERTIFICATION

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SIGNATURE

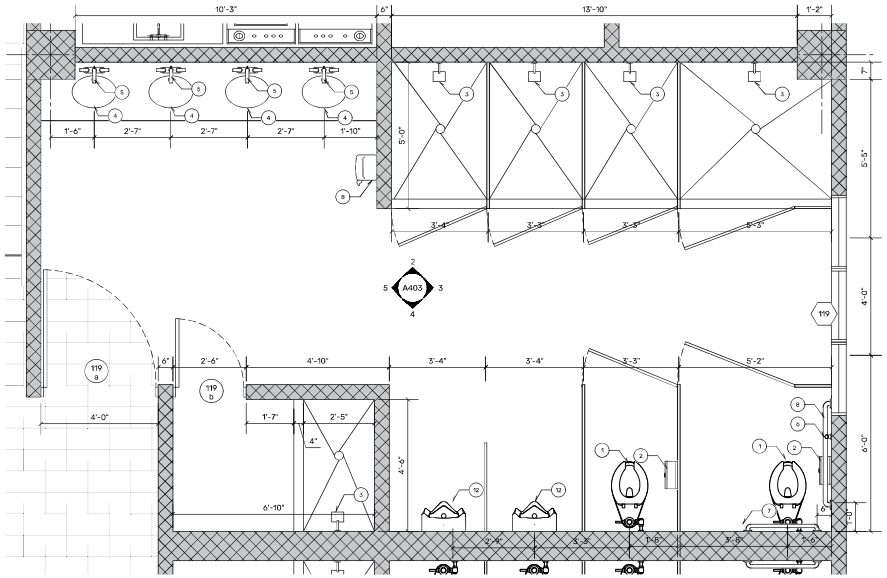
William Melendez Rivas
Ingeniero
Licenciado
Lic. 16868
Puerto Rico

FILE

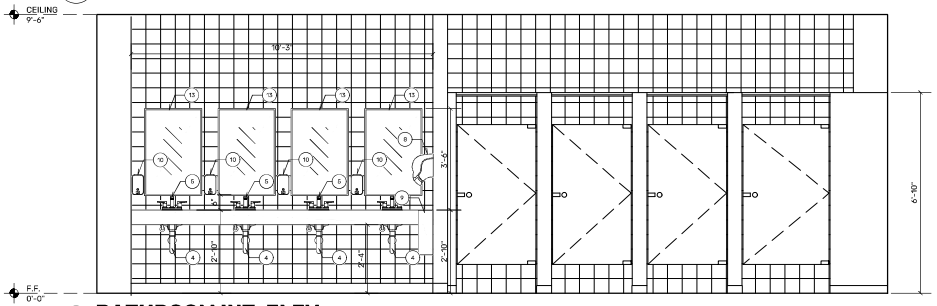
Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
RESTROOMS [NURSING & KITCHEN]_BLOW UP

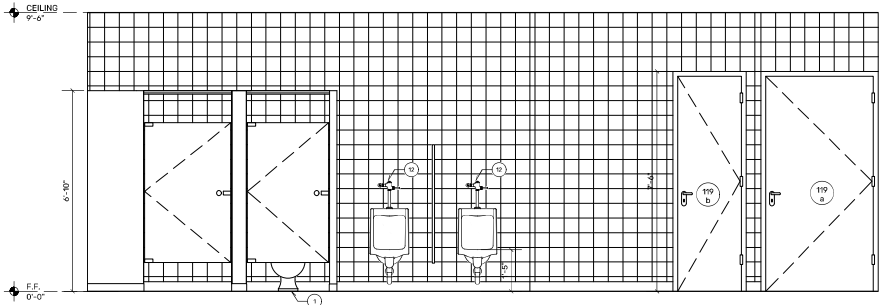
DRAWING No.
A402



1 MEN'S RESTROOM_BLOW UP
SCALE: 1/2" = 1' - 0"



2 BATHROOM INT. ELEV.
SCALE: 1/2" = 1' - 0"



4 BATHROOM INT. ELEV.
SCALE: 1/2" = 1' - 0"

BATHROOM FIXTURES & ACCESSORIES SCHEDULE

NO.	ITEM	QTY.	MANUFACTURER	MODEL NO.	MATERIAL	COMMENTS
1	FLOOR MOUNTED TOILET [FLUSHOMETER] WITH FLUSH VALVE	2	AMERICAN STANDARD	MADERA	CERAMIC/ PORCELAIN	1.1 GPF, MANUAL FLUSH, WHITE
2	TOILET PAPER HOLDER	2	BOBRICK	B-2890	STAINLESS STEEL	SURFACE MOUNTED, JUMBO-ROLL
3	SHOWER FAUCET	4	ARAGON	HD834X-0001	CHROME	VALVE INCLUDED
4	SINK	4	KOHLER	K-2882-0	CERAMIC/ PORCELAIN	RECTANGLE UNDERMOUNTED SINK - WHITE
5	FAUCET	4	GLACIER BAY	HDQFS1A1130CP	CHROME	IRENA 4IN CENTERESET 2 HANDLE
6	GRAB BAR 18 IN	1	BOBRICK	B5806x18	STAINLESS STEEL	1-1/2" DIAMETER TUBING
7	GRAB BAR 36 IN	1	BOBRICK	B5806x36	STAINLESS STEEL	1-1/2" DIAMETER TUBING
8	GRAB BAR 42 IN	1	BOBRICK	B5806x42	STAINLESS STEEL	1-1/2" DIAMETER TUBING
9	TOWEL DISPENSER	1	SAN JAMAR	SJMT950TBK	-	ELEMENT BLACK LEVER ROLL TOWEL DISPENSER
10	TRASH CAN	1	ALPINE INDUSTRIES	491	STAINLESS STEEL	6 gals. MOUNTED WASTE RECEPTACLE
11	SOAP DISPENSER	4	BOBRICK	B-2111	STAINLESS STEEL	40 OZ SURFACE MOUNTED SOAP
12	URINAL	2	AMERICAN STANDARD	6581001.020	CERAMIC/ PORCELAIN	.0125-1.0 GPF, TOP SPUD
13	WALL MIRROR	4	RHODES	218070	-	CLASSIC RECTANGLE FRAMED WHITE WALL-ACCENT MORROR

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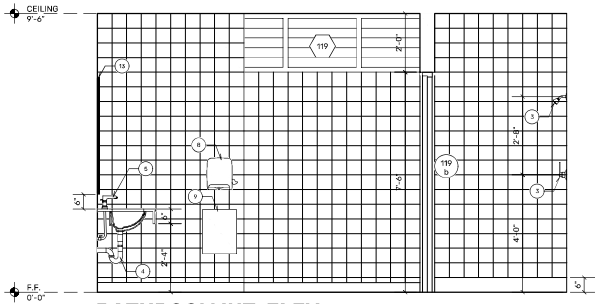
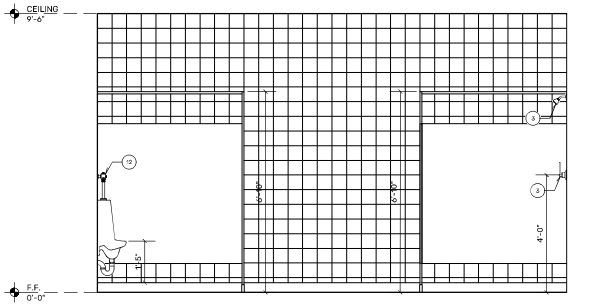


3 BATHROOM INT. ELEV.
SCALE: 1/2" = 1' - 0"



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

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REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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SIGNATURE

William Melendez Rivas
Ingeniero
Licenciado
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FILE

Dwg Name: INGENIUM GROUP
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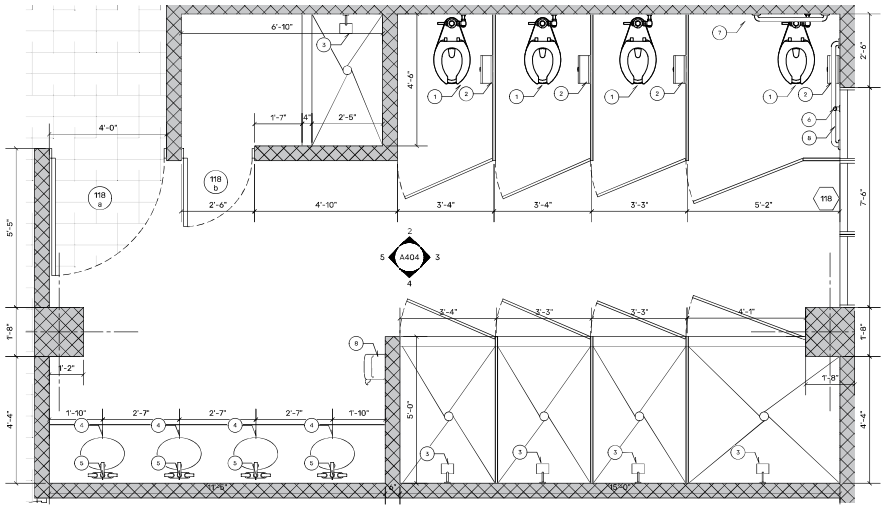
Progress Print:

TITLE
RESTROOMS_BLOW UP

DRAWING No.
A403



1 WOMEN'S RESTROOM INT. ELEV.

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

BATHROOM FIXTURES & ACCESSORIES SCHEDULE

NO.	ITEM	QTY.	MANUFACTURER	MODEL NO.	MATERIAL	COMMENTS
1	FLOOR MOUNTED TOILET (FLUSHOMETER) WITH FLUSH VALVE	4	AMERICAN STANDARD	MADERA	CERAMIC/ PORCELAIN	1.1 GPF, MANUAL FLUSH, WHITE
2	TOILET PAPER HOLDER	4	BOBRICK	B-2890	STAINLESS STEEL	SURFACE MOUNTED, JUMBO-ROLL
3	SHOWER FAUCET	4	ARAGON	HD834X-0001	CHROME	VALVE INCLUDED
4	SINK	4	KOHLER	K-2882-0	CERAMIC/ PORCELAIN	RECTANGLE UNDERMOUNTED SINK - WHITE
5	FAUCET	4	GLACIER BAY	HDQF51A1130 CP	CHROME	IRENA 4IN CENTERESET 2 HANDLE
6	GRAB BAR 18 IN	1	BOBRICK	B5806x18	STAINLESS STEEL	1-1/2" DIAMETER TUBING
7	GRAB BAR 36 IN	1	BOBRICK	B5806x36	STAINLESS STEEL	1-1/2" DIAMETER TUBING
8	GRAB BAR 42 IN	1	BOBRICK	B5806x42	STAINLESS STEEL	1-1/2" DIAMETER TUBING
9	TOWEL DISPENSER	1	SAN JAMAR	SJMT950TBK	-	ELEMENT BLACK LEVER ROLL TOWEL DISPENSER
10	TRASH CAN	1	ALPINE INDUSTRIES	491	STAINLESS STEEL	6 gals. MOUNTED WASTE RECEPTACLE
11	SOAP DISPENSER	4	BOBRICK	B-2111	STAINLESS STEEL	40 OZ SURFACE MOUNTED SOAP
12	WALL MIRROR	4	RHODES	218070	-	CLASSIC RECTANGLE FRAMED WHITE WALL-ACCENT MORROR

IMPORTANT NOTE:

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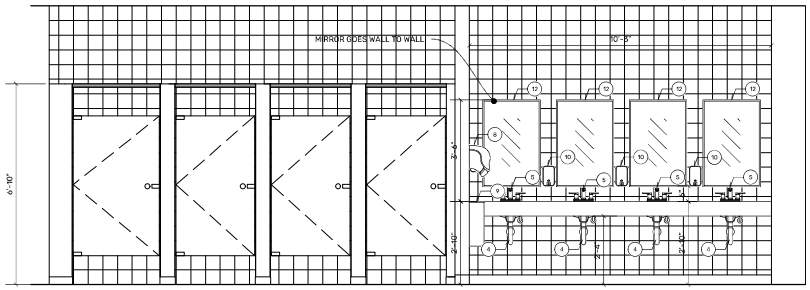

2 BATHROOM INT. ELEV.

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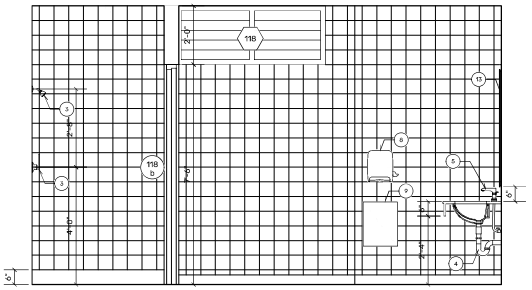
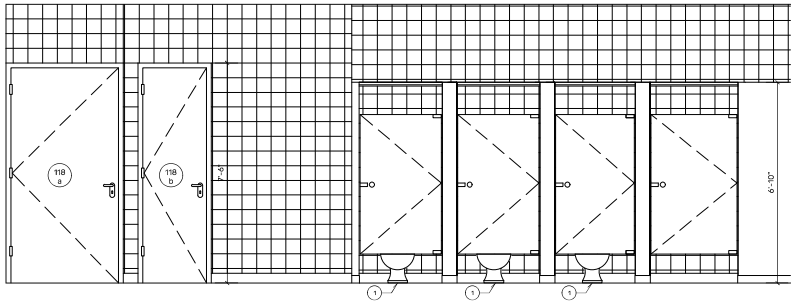


3 BATHROOM INT. ELEV.

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



4 BATHROOM INT. ELEV.

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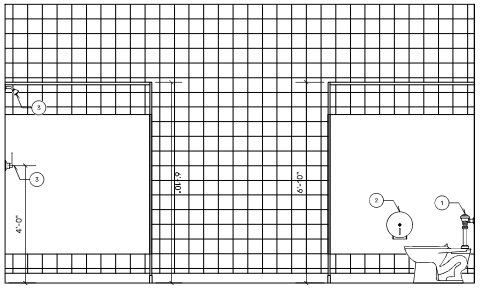

5 BATHROOM INT. ELEV.

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

PROJECT ADDRESS
ELDERLY SERVICE CENTER
CALLE FERROCARRIL #11 BO. PUEBLO,
LAJAS, P.R. 00667

GPS LATITUDE/LONGITUDE:
18.04941608, -67.05761236

OWNER
LAJAS MUNICIPALITY

REGISTER No.
358-032-072-01

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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IMPORTANT NOTES TO THE CONTRACTOR:

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CERTIFICATION

I, WILLIAM MELENDEZ RIVAS, LIC. 16,583, CERTIFY THAT I AM THE PROFESSIONAL WHO MADE, DESIGNED OR PREPARED THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 14-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY" AND WITH THE [LAW NO. 319 OF MAY 15, 1938, AS AMENDED; ACT NO. 96 OF JULY 5, 1978, AS AMENDED; AS APPLICABLE]. I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY IGNORANCE OR NEGLIGENCE EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION IN THE OGPE.

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tel. (787) 919-4890 / 4891
Email: info@ingeniumgroup

SIGNATURE

William Melendez Rivas
Ingeniero
Licenciado
Lic. 16,583
Puerto Rico

FILE

Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
RESTROOMS_BLOW UP

DRAWING No.
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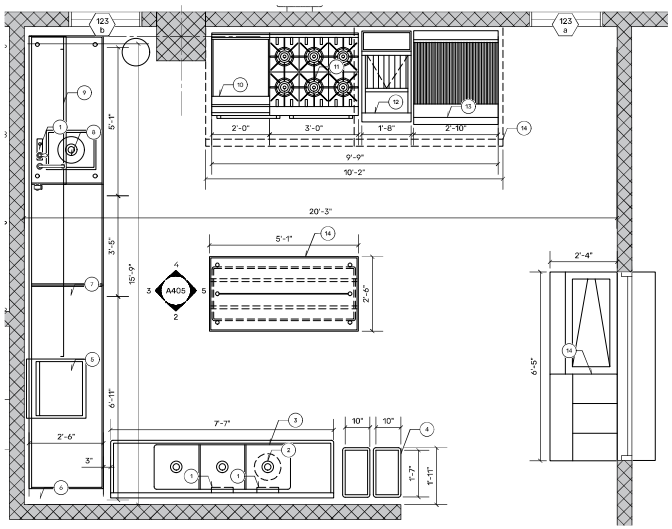
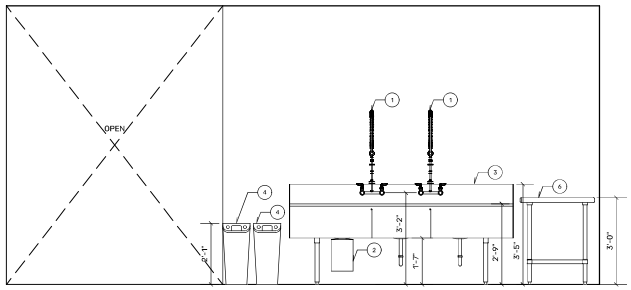
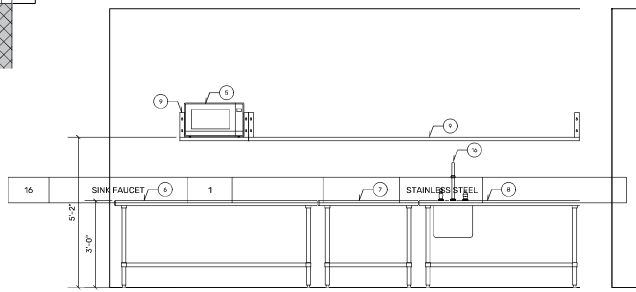


1 KITCHEN INTERIOR BLOW-UP
SCALE: 1/2" = 1' - 0"



2 KITCHEN INTERIOR ELEVATION
SCALE: 1/2" = 1' - 0"



3 KITCHEN INTERIOR ELEVATION
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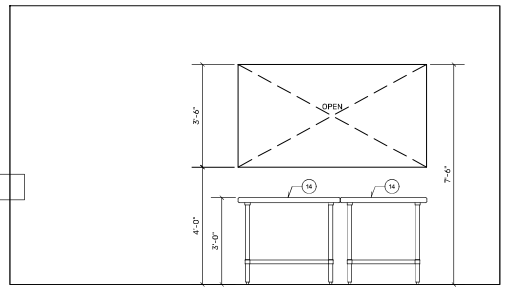

4 KITCHEN INTERIOR ELEVATION
SCALE: 1/2" = 1' - 0"

KITCHEN FIXTURES & ACCESSORIES SCHEDULE						
NO.	ITEM	QTY.	MANUFACTURER	MODEL NO.	MATERIAL	COMMENTS
1	WALL MOUNTED FAUCET	2	-	600FPRW88LL	CHROME	BRASS CHROME PLATED BODY. CROME PLATED HANLES. 44" LONG FLEXIBLE GOOSENECK HOSE.
2	FOOD WASTE DISPOSAL	1	-	EVOLUTION EXCEL	STAINLESS STEEL	MULTIGRIND AND SOUNDSEAL TECHNOLOGIES 1.0 HP
3	THREE COMPARTMENT BUDGET SINKS	1	-	600S3181BG	STAINLESS STEEL	STAINLESS STEEL GAUGE 16 WITH GALVANIZED STEEL LEGS
4	GRAY WALL HUGGER TRASH CAN 23 GALLON	2	-	FG354000 GRAY		
5	MICROWAVE OVEN	1	AMANA COMMERCIAL	RCS10DSE		MEDIUM VOLUME MICROWAVE 1000 WATTS
6	WORK TABLE	1	ADVANCE TABCO	SLAG-305-X	STAINLESS STEEL	16 GAUGE WORK TABLE FLAT TOP WITH UNDERSHELF
7	WORK TABLE	1	ADVANCE TABCO	KSLAG-302-X	STAINLESS STEEL	ADVANCE TABCO STAINLESS STEEL 16 GAUGE WORK TABLE WITH 5" BACKSPLASH AND UNDERSHELF
8	WORK TABLE WITH SINK	1	ADVANCE TABCO	1097PS61	STAINLESS STEEL	ADVANCE TABCO STAINLESS STEEL 16 GAUGE WORK TABLE WITH SINK AND UNDERSHELF
9	SMART FABRICATION POT RACK & SHELVES	2	ADVANCE TABCO	TA-228, TA-225, PT-10-60, PT-12-60, SCT-60	STAINLESS STEEL	MID MOUNT SHELVING WITH TUBULAR UPRIGHTS, 10" ADJUSTABLE SHELF, 12" ADJUSTABLE SHELF, 22" POT RACK AND UTENSIL RACK, FOR INSTALLATION ON K21 WORK TABLE, WITH
10	GRIDDLE	1			STAINLESS STEEL	
11	ENDURANCE GAS RESTAURANT RANGE	1	VULCAN	36C-6BN	STAINLESS STEEL	6 OPEN BURNERS / 36" WIDE GAS RANGE, 1 CONVECTION OVEN NATURAL GAS,
12	GAS FRIER	1	MANITOWOC	HD60	STAINLESS STEEL	FRYMASTER HD SERIES GAS CRYER 80-LB
13	CHAR BOILER	1	MANITOWOC	M34BT	STAINLESS STEEL	GARLAND MASTER SERIES HEAVY DUTY RANGE-MATCH CHAR-BROILER
14	DRAWER ASSEMBLY	2	ADVANCE TABCO	ADT-2-2020	STAINLESS STEEL	2 TIER 20"X20"X5" DRAWER ASSEMBLY WITH SIDE PANELS
15	SERVER TABLE	2			STAINLESS STEEL	

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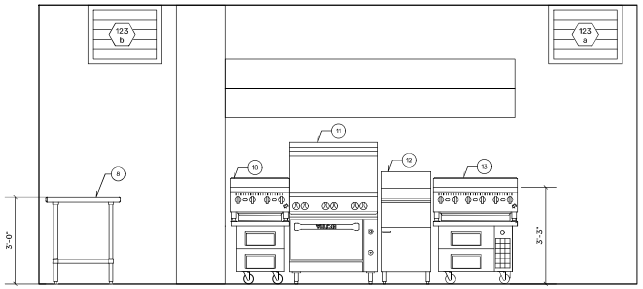
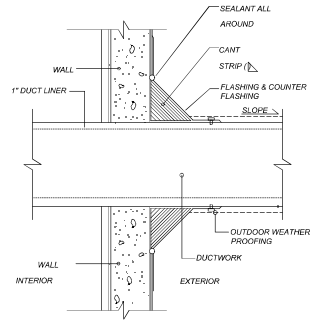


5 KITCHEN INTERIOR ELEVATION
SCALE: 1/2" = 1' - 0"



5 WALL PENETRATION DETAIL
SCALE: NOT TO SCALE

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SIGNATURE

William Melendez Rivas, Engineer, Colegiado Lic. 16,583, Puerto Rico

FILE

Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
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TITLE
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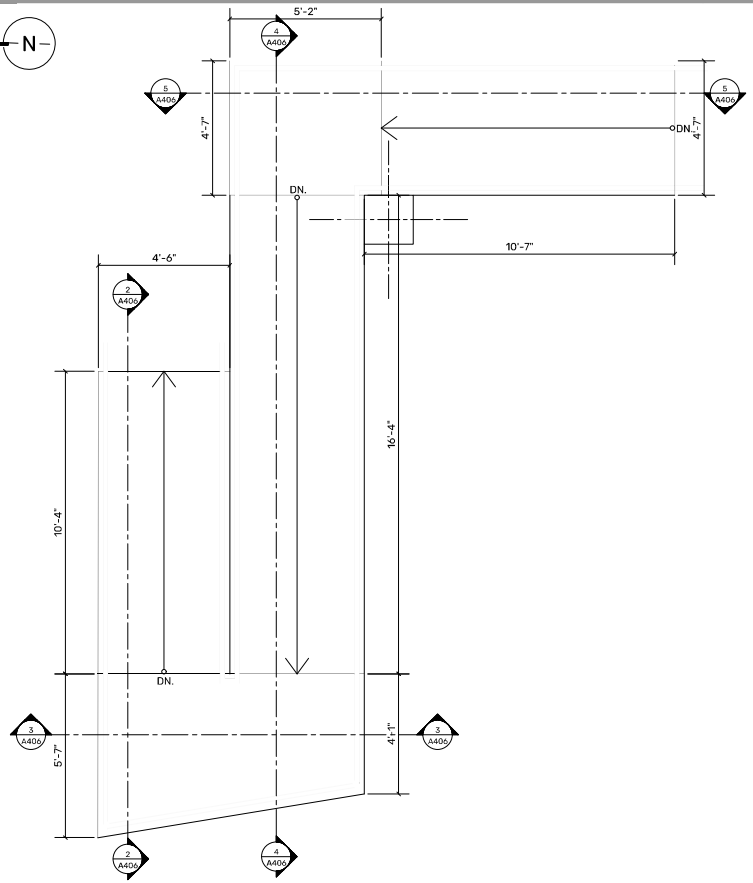

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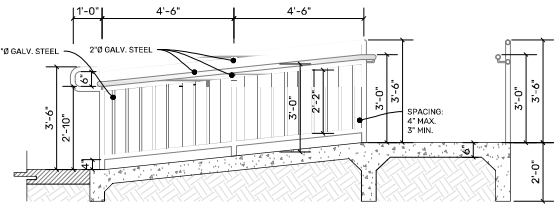
SCALE: 1/2" = 1' - 0"



2 PROPOSED INTERIOR RAMP_SECTION
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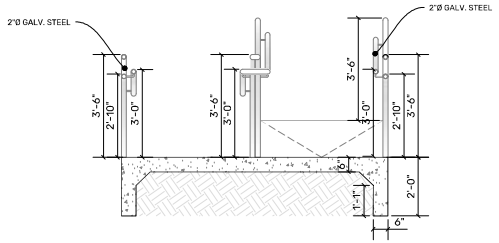

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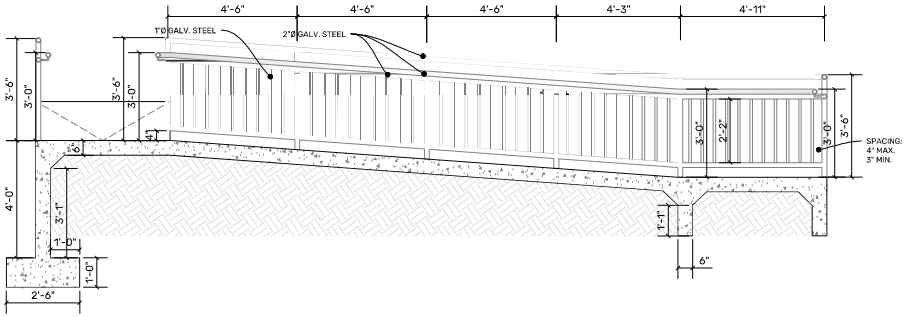

4 PROPOSED INTERIOR RAMP_SECTION
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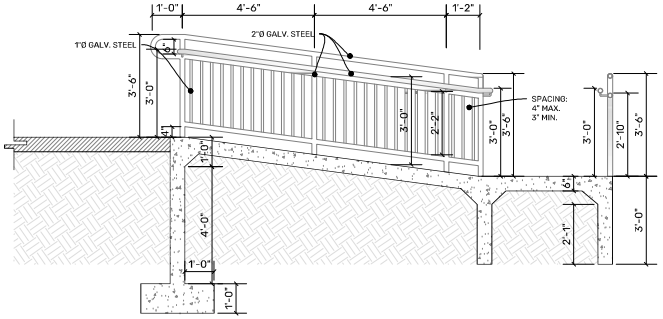

5 PROPOSED INTERIOR RAMP_SECTION
SCALE: 1/2" = 1' - 0"

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CALLE FERROCARRIL #11 BO. PUEBLO,
LAJAS, P.R. 00667

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REVISIONS

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SIGNATURE

William Melendez Rivas
Ingeniero
Licenciado
Lic. 16383
Puerto Rico

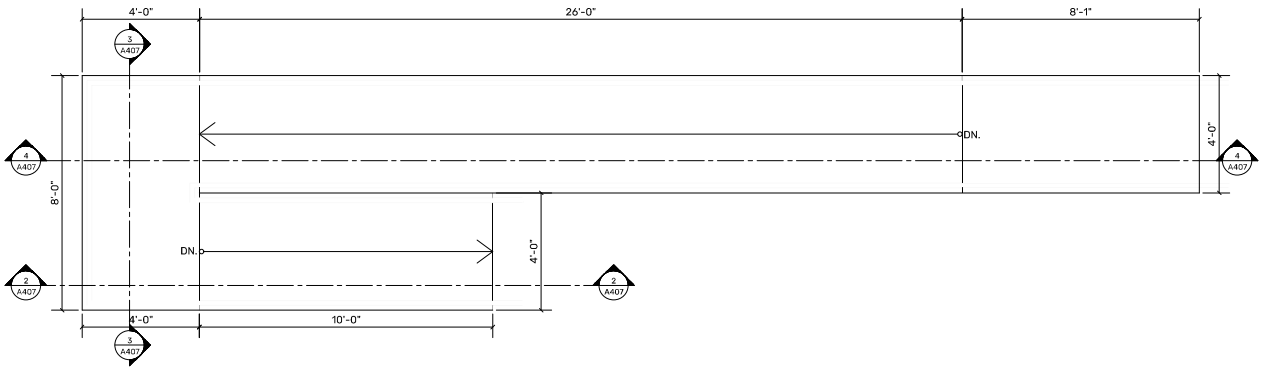
FILE

Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
RAMP_BLOW UP

DRAWING No.
A406

R A M P _ B L O W U P



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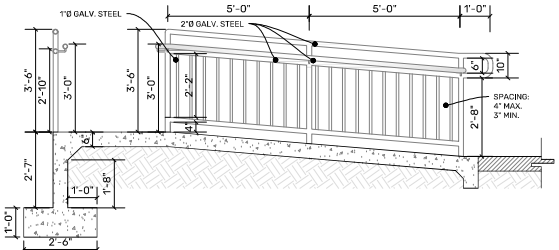

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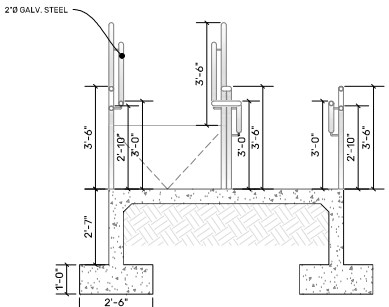

3 PROPOSED EXTERIOR RAMP_SECTION
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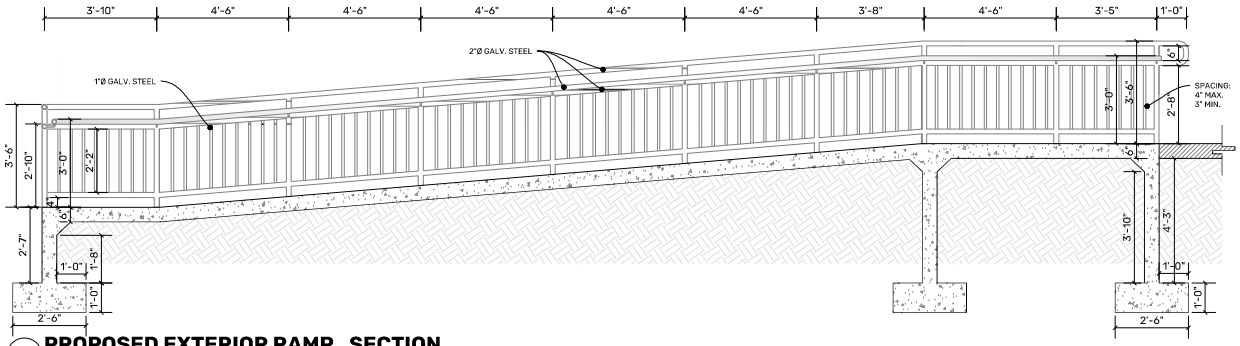

4 PROPOSED EXTERIOR RAMP_SECTION
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REVISIONS

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IMPORTANT NOTES TO THE CONTRACTOR:

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CERTIFICATION

I, WILLIAM MELENDEZ RIVAS, LIC. 16383, CERTIFY THAT I AM THE PROFESSIONAL WHO MADE, DESIGNED OR PREPARED THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE BY THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 14-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY AND WITH THE LLAW NO. 399 OF MAY 15, 1938, AS AMENDED; ACT NO. 96 OF JULY 6, 1978, AS AMENDED; AS APPLICABLE. I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY ENDEANOR OF NEGLIGENCE EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THIS DEPE.

INGENIUM PROFESSIONAL GROUP
654 Ave. Muñoz Rivera - Suite 1030
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SIGNATURE

William Melendez Rivas
Ingeniero
Licenciado
Lic. 16383
Puerto Rico

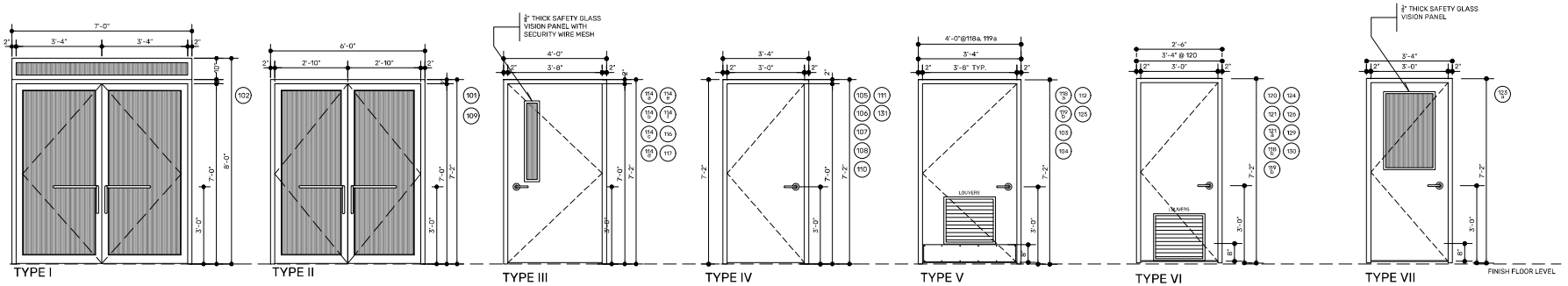
FILE

Dwg Name:	INGENIUM GROUP
Drawn by:	INGENIUM GROUP
Revised by:	ING. WILLIAM MELENDEZ
Plot Scale:	AS SHOWN
Progress Print:	

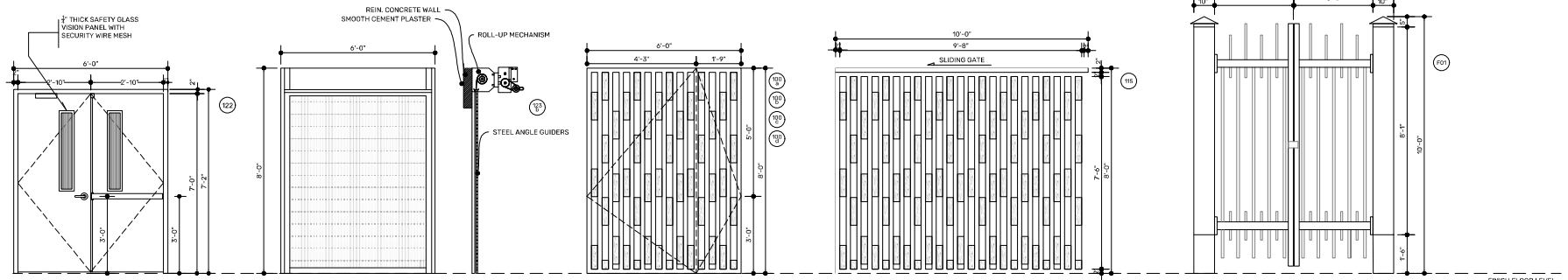
TITLE
RAMP_BLOW UP

DRAWING No.
A407

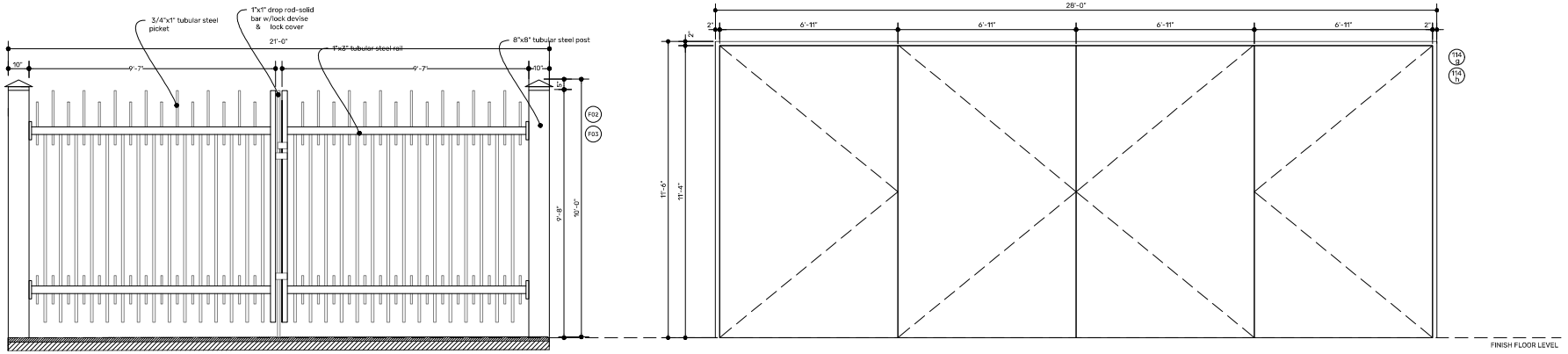
D O O R S S C H E D U L E



TYPE I TYPE II TYPE III TYPE IV TYPE V TYPE VI TYPE VII



TYPE VIII TYPE IX TYPE X TYPE XI TYPE XII



TYPE XIII TYPE XIV

DOORS SCHEDULE

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

PROJECT ADDRESS
ELDERLY SERVICE CENTER
CALLE FERROCARRIL #11 BO. PUEBLO, LAJAS, P.R. 00667

GPS LATITUDE/LONGITUDE:
18.04941608, -67.05761236

OWNER
LAJAS MUNICIPALITY

REGISTER No.
3 5 8 - 0 3 2 - 0 7 2 - 0 1

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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CERTIFICATION

I, WILLIAM MELENDEZ RIVAS, LIC. 16383, CERTIFY THAT I AM THE PROFESSIONAL M-I-D [MADE, DESIGNED OR PREPARED] THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 14-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY" AND WITH THE [LAW NO. 319 OF MAY 15, 1938, AS AMENDED; ACT NO. 96 OF JULY 5, 1978, AS AMENDED; AS APPLICABLE]. I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY IGNORANCE OR NEGLIGENCE, EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE OOPE.

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SIGNATURE

William Meléndez Rivas — Ingeniero Licenciado — Lic. 16383 P.E. — Puerto Rico

FILE

Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
DOORS SCHEDULE

DRAWING No.
A500

DOOR SCHEDULE

TYPE	NUMBER	WIDTH X HEIGHT ACTUAL DOOR	FINISH OPENING DIMENSIONS	FINISH	COMMENTS
I	102	80" X 86"	84" X 96"	GLASS DOOR WITH METAL FRAME	DOUBLE DOOR WITH FIXED WINDOW
II	101, 109	68" X 84"	72" X 86"	GLASS DOOR WITH METAL FRAME	DOUBLE DOOR
III	114a, 114b, 114c, 114d, 114e, 114f, 116, 117	44" X 84"	48" X 86"	HOLLOW METAL DOOR	SINGLE DOOR WITH RECTANGULAR CLEAR VISION PANEL [2 COATS OIL BASED ENAMEL]
IV	105, 106, 107, 108, 110, 111, 131	36" X 84"	40" X 86"	HOLLOW METAL DOOR	SINGLE DOOR
V	118a, 119a	44" X 84"	48" X 86"	HOLLOW METAL WITH LOUVER & KICK PLATE	SINGLE DOOR [2 COATS OIL BASED ENAMEL]
	103, 104, 112, 125	36" X 84"	40" X 86"		
VI	120	36" X 84"	40" X 86"	HOLLOW METAL WITH KICK PLATE	SINGLE DOOR [2 COATS OIL BASED ENAMEL]
	118b, 119b, 121, 121a 124, 126, 129, 130	26" X 84"	30" X 86"		
VII	123a	36" X 84"	40" X 86"	HOLLOW METAL DOOR	SINGLE DOOR WITH RECTANGULAR CLEAR VISION PANEL [2 COATS OIL BASED ENAMEL]
VIII	122	68" X 84"	72" X 86"	HOLLOW METAL DOOR	DOUBLE DOOR WITH RECTANGULAR CLEAR VISION PANEL [2 COATS OIL BASED ENAMEL]
IX	123b	-	72" X 96"	-	STEEL ROLLING DOOR
X	100a, 100b, 100c, 100d	-	72" X 96"	METAL GATE	SINGLE PIVOT GATE
XI	115	-	120" X 96"	METAL GATE	SLIDING GATE
XII	F01	74"X120"	93" X 120"	METAL GATE	PEDESTRIAN DOUBLE GATE
XIII	F02, F03	232"X120"	252" X 120"	METAL GATE	VEHICULAR DOUBLE GATE
XIV	114g, 114h	328" X 134"	144" X 134"	HOLLOW METAL DOOR	FOLDING METAL DOOR WITH WOOD FINISH

DOOR GLAZING NOTE:

1. ALL EXTERIOR GLAZING SHALL BE ASSEMBLED AS HURRICANE-RESISTANT LAMINATED GLASS UNITS WITH A MINIMUM THICKNESS OF $\frac{7}{16}$", AND 0.090 PVB INTERLAYER.
2. ALL EXTERIOR DOORS AND WINDOWS ASSEMBLIES WILL INCLUDE STRUCTURAL SILICONE GLAZING SEALANT, SHALL HAVE THE CAPACITY TO WITHSTAND LARGE MISSILE IMPACTS.

IMPORTANT NOTE:

DOORS 061A,061B,063,077A,077B,038A AND 038B MUST HAVE A MAGNET OR TAG SYSTEM TO ENTRY .

FOLDING DOOR SPECIFICATIONS:

1. ACOUSTIC PERFORMANCE.
2. ADJUSTABLE MORTISED BOTTOM SEAL ALLOWS THE DOOR TO ADAPT TO SITE FLOOR CONDITIONS.
3. DOUBLE MAGNETIC SEALS AT HEAD AND JAMBS.
4. EASE OF OPERATION CONFORMS TO ADA.
5. METAL SOUND CONTROL DOORS ARE AVAILABLE WITH WOOD VENEER APPLIED TO THE FACE OF THE DOOR.
6. WOOD VENEERED DOORS MUST BE STORED IN A TEMPERATURE AND HUMIDITY CONTROLLED CLEAN, DRY

GENERAL NOTES:

VERIFY WITH OWNER KEYING SYSTEM.
ALL LOCKS MASTER KEY & CONSTRUCTION KEY
3 KEYS PER LOCK 2 MASTER KEYS 10 CONSTRUCTION KEYS ALL KEYS STAMPED " DO NOT DUPLICATE"
FINAL KEY LAYOUT AS PER ARCHITECT'S AND/ OR OWNER'S REPRESENTATIVE INSTRUCTIONS ALL KEYS MUST BE SARGENT TYPE 2A

REGULATORY REQUIREMENTS:

A. CONFORM TO ALL APPLICABLE CODES FOR FIRE RATED DOORS AND FRAMES.

B. CONFORM TO THE APPLICABLE SECTIONS OF CHAPTER 5 OF NFPA

C. CONFORM TO ANSIA117.1 FOR HARDWARE LOCATIONS AND REQUIREMENTS TO MEET ALL HANDICAPPED CODES MEET TITLE III PROVISIONS OF THE AMERICANS WITH DISABILITIES ACT.

D. QUANTITIES SHOWN ON THE SCHEDULE ARE FOR REFERENCE ONLY, FINAL COUNT IS BIDDER'S (CONTRACTOR'S) RESPONSIBILITY. BIDDERS SHOULD VERIFY FLOOR PLANS AND DOOR SCHEDULE TO DETERMINE FINAL QUANTITIES.

REFERENCES:
MCK - MCKINNEY MFG. COMP. (BUTT HINGES)
SAR - SARGENT & COMP. (LOCKSETS, EXITS, CLOSERS) TRI - TRIANGLE BRASS MANF. (PUSH, PULL, KICK, BOLTS, STOPS) PEM - PEMKO (WEATHERSTRIPPING)
KCS - KEY CONTROLS SYSTEMS, INC. (KEY CABINETS)

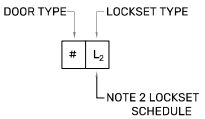
DOOR NOTES

1. ALL DOORS SHALL BE SANDED, PRIMED AND PAINTED. (SEE PAINT NOTES AT SHEET A-1)
2. ALL DOORS SHALL BE PROVIDED WITH FOUR STAINLESS STEEL HINGES (PERMANENTLY LUBRICATED NON DETACHABLE BALL BEARINGS) & WALL MOUNTED DOME STYLE DOOR STOPPERS.
3. ALL HOLLOW METAL DOORS & FRAMES SHALL BE GALVANIZED STEEL GAGE 14.
4. ALL EXTERIOR DOORS SHALL BE PROVIDED WITH ASTRAGAL & AND ALUMINUM AND RUBBER DOOR SWEEP.
5. INSTALL AN ALUMINUM THRESHOLD AT ALL EXTERIOR DOORS. (SEE ALUMINUM THRESHOLD DETAIL)
6. INSTALL AN MARBLE THRESHOLD AT ALL BATHROOM DOORS. (SEE MARBLE THRESHOLD DETAIL)

NOTES:

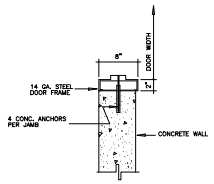
1. ALL LOCKSET SHALL BE HEAVY DUTY TYPE EQUAL OR SIMILAR TO 10 LINE L LEVER LOCKSET BY SARGENT.
2. DOOR CLOSER EQUAL OS SIMILAR TO MODEL 1431 SERIES WITH BRASS FINISH BY SARGENT.

DOOR LEGEND



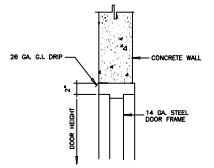
DOOR HARDWARE SCHEDULE

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



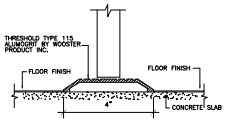
INT. DOOR IN CONC. JAMB

SCALE: 1" = 1' - 0"



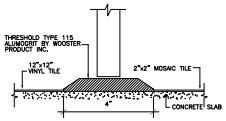
INT. DOOR IN CONC. HEAD

SCALE: 1" = 1' - 0"



ALUMINUM TRESHOLD DETAIL

SCALE: N.T.S



MARBLE TRESHOLD DETAIL

SCALE: N.T.S

PROJECT ADDRESS
ELDERLY SERVICE CENTER
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GPS LATITUDE/LONGITUDE:
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OWNER
LAJAS MUNICIPALITY

REGISTER No.
358-032-072-01

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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CERTIFICATION

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Email: info@ingeniumpr.com

SIGNATURE

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FILE

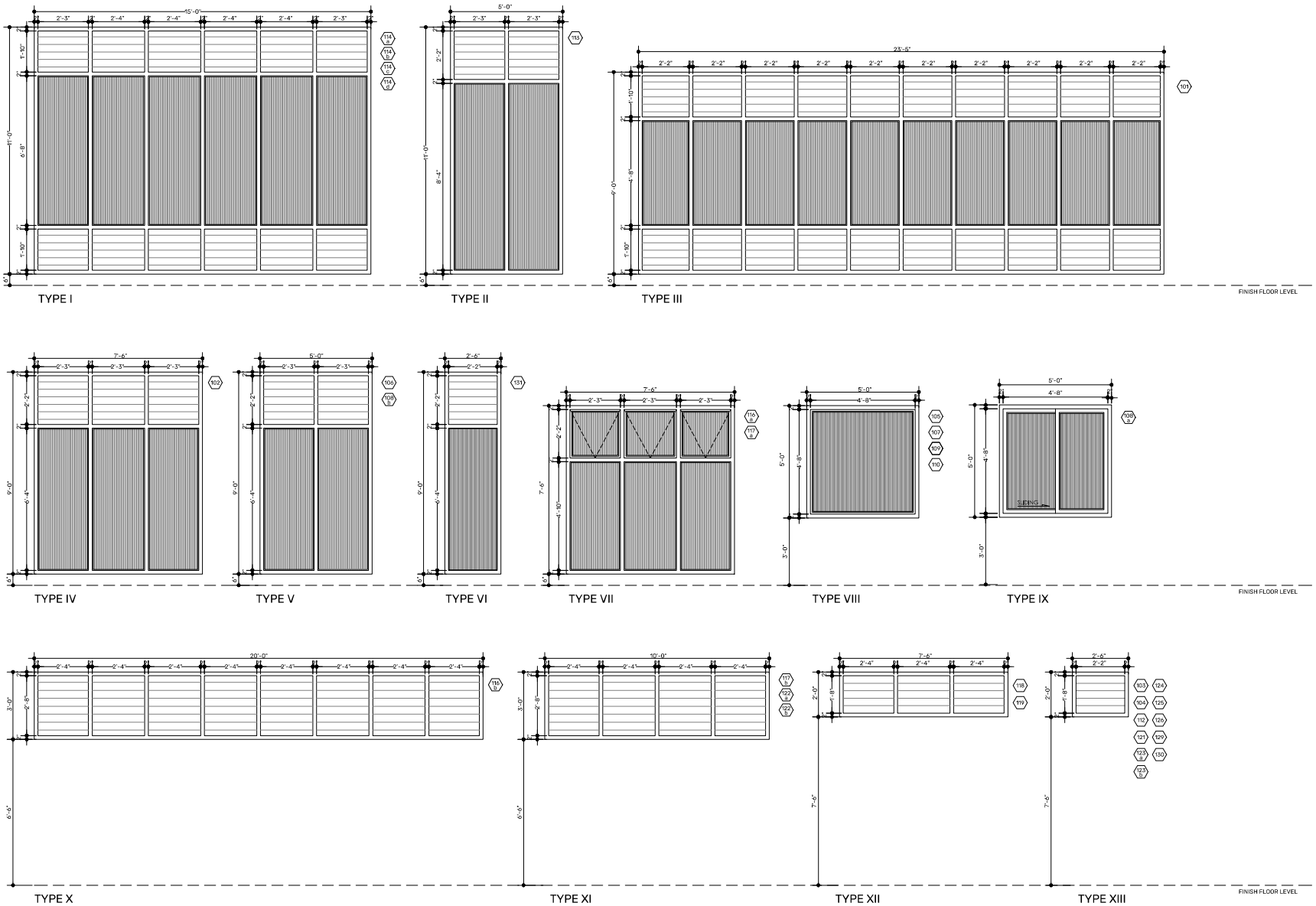
Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE

DOORS SCHEDULE

DRAWING No.

A500



WINDOW SCHEDULE

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

PROJECT ADDRESS

ELDERLY SERVICE CENTER
CALLE FERROCARRIL #11 BO. PUEBLO,
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OWNER

LAJAS MUNICIPALITY

REGISTER No.

3 5 8 - 0 3 2 - 0 7 2 - 0 1

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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SIGNATURE

William Melendez Rivas
Ingeniero Licenciado
Lic. 16583 F.P.
Puerto Rico

FILE

Dwg Name: INGENIUM GROUP

Drawn by: INGENIUM GROUP

Revised by: ING. WILLIAM MELENDEZ

Plot Scale: AS SHOWN

Progress Print:

TITLE

WINDOWS SCHEDULE

DRAWING No.

A600

WINDOWS SCHEDULE

TYPE	NUM.	OPENING DIMENSIONS WxH	FRAME		PANEL	HEIGHT F.F.L.	GLASS			LOCATION	DESCRIPTION
			MATERIAL	COLOR			TYPE	THICKNESS	COLOR		
I	114a, 114b, 114c, 114d	180" X 132"	ALUM	GREY	6	6"	LAMINATED	7/16"	CLEAR	ACTIVITY AREA	DOUBLE OPERABLE METAL LOUVER AND FIXED PANEL
II	113	60" X 132"	ALUM	GREY	2	6"	LAMINATED	7/16"	CLEAR	NURSING AREA	SINGLE OPERABLE METAL LOUVER AND FIXED PANEL
III	101	281" X 108"	ALUM	GREY	10	6"	LAMINATED	7/16"	CLEAR	CONFERENCE ROOM	DOUBLE OPERABLE METAL LOUVER AND FIXED PANEL
IV	102	90" X 108"	ALUM	GREY	3	6"	LAMINATED	7/16"	CLEAR	ADMINISTRATIVE	SINGLE OPERABLE METAL LOUVER AND FIXED PANEL
V	106, 108b	60" X 108"	ALUM	GREY	2	6"	LAMINATED	7/16"	CLEAR	ADMINISTRATIVE	SINGLE OPERABLE METAL LOUVER AND FIXED PANEL
VI	131	30" X 108"	ALUM	GREY	1	6"	LAMINATED	7/16"	CLEAR	KITCHEN OFFICE	SINGLE OPERABLE METAL LOUVER AND FIXED PANEL
VII	116a, 117a	90" X 90"	ALUM	GREY	3	6"	LAMINATED	7/16"	CLEAR	TV ROOM, WORKSHOP	SINGLE OPERABLE GLASS PROJECTED AND FIXED PANEL
VIII	105, 107, 109, 110	60" X 60"	ALUM	GREY	1	36"	LAMINATED	7/16"	CLEAR	ADMINISTRATIVE	FIXED GLASS WINDOW
IX	108a	60" X 60"			2	36"	LAMINATED	7/16"	CLEAR	ADMINISTRATIVE	SLIDING GLASS WINDOW
X	116b	240" X 36"	ALUM	GREY	8	78"	-	-	-	TV ROOM, WORKSHOP	OPERABLE METAL LOUVERED WINDOW
XI	117b, 122a, 122b	120" X 36"	ALUM	GREY	4	78"	-	-	-	LUNCH AREA	OPERABLE METAL LOUVERED WINDOW
XII	118, 119	90" X 24"	ALUM	GREY	3	90"	-	-	-	RESTROOMS	OPERABLE METAL LOUVERED WINDOW
XIII	103, 104, 112, 121, 123a, 123b, 124, 125, 126, 129, 130	30" X 24"	ALUM	GREY	1	90"	-	-	-	SERVICE AREAS	OPERABLE METAL LOUVERED WINDOW

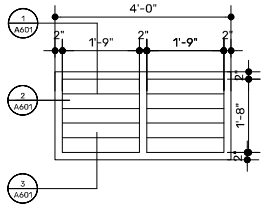
EXTERIOR GLAZING NOTES:

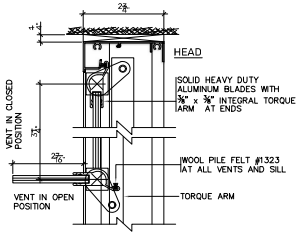
1.ALL EXTERIOR GLAZING SHALL BE ASSEMBLED AS HURRICANE-RESISTANT LAMINATED GLASS UNITS WITH A MINIMUM THICKNESS OF $\frac{7}{16}$", AND 0.090 PVB INTERLAYER.
2.ALL EXTERIOR DOORS AND WINDOWS ASSEMBLIES WILL INCLUDE STRUCTURAL SILICONE GLAZING SEALANT, SHALL HAVE THE CAPACITY TO WITHSTAND LARGE MISSILE IMPACTS.

ALUMINUM DOOR & WINDOW NOTES:

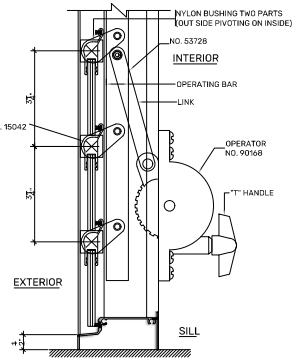
1.ALL DIMENSIONS TO BE VERIFIED IN FIELD BY CONTRACTOR PRIOR TO FABRICATION.
2.ALL HARDWARE STAINLESS STEEL, SATIN FINISH EXCEPT CLOSERS, FOR WHICH COLOR SHALL BE CHOSEN BY ARCHITECT FROM MANUFACTURER'S STANDARD COLORS.
3.NOMINAL SIZE FOR SWING TYPE DOORS REFERS TO SIZE OF DOORS LEAFS, NOMINAL SIZE FOR OVERHEAD COIL DOORS REFERES TO SIZE OF WALL OPENING.

ALUMINUM WINDOW

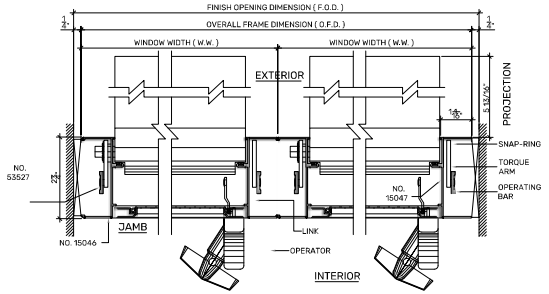




1 HEAD DETAIL
SCALE: 6" = 1' - 0"



2 SILL DETAIL
SCALE: 6" = 1' - 0"



3 HORIZONTAL DETAIL
SCALE: 6" = 1' - 0"

GENERAL WINDOWS NOTES

1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES. OMISSIONS OR ERRORS PRIOR TO BIDDING DAY, SO THAT PROPER CORRECTIONS AND/OR CLARIFICATIONS ARE MADE.
2. APPLY SEALANT ALL AROUND THE WINDOWS (EXTERIOR & INTERIOR).
3. INSTALL WINDOW OPERATOR CRANK HANDLE, FOR ALL WINDOWS.
4. WINDOWS ON ROOMS PROVIDED WITH A/C SYSTEMS SHALL BE PROVIDED WITH CLEAR, PLASTIC SCREENS.
5. WINDOWS ON ROOMS WITHOUT A/C SYSTEMS, SHALL BE PROVIDED WITH GRAY COLORED - FIBERGLASS MESH SCREENS.
6. ALL WINDOWS SHALL BE SECURITY WINDOWS.
7. ALL WINDOWS SHOULD WITHSTAND WINDS OF AT LEAST 180 MPH (IBC 2015 1606.3)

ABOUT WINDOWS

- ALL EXTERIOR WINDOWS MUST HAVE 7/16" IMPACT RESISTANT LAMINATED SAFETY GLASS.
- GLASS COLOR: SOLEX.
- FRAME: ALUMINUM - GRAY COLOR.
- ASSEMBLY WITH STAINLESS STEEL SCREWS.
- HAS DOUBLE SEALED BOTH THE FRAMEWORK AND THE BLADE FOR INCREASED RESISTANCE AGAINST WATER AND WIND PRESSURE.
- OPERATOR AVAILABLE OR LOCK.
- EQUAL OR SIMILAR AIR MASTER WINDOWS AND DOORS. WINDOWS MUST BE SUBMITTED TO CUSTOMER FOR FINAL APPROVAL.

WINDOW SCHEDULE
SCALE: NOT TO SCALE

PROJECT ADDRESS
ELDERLY SERVICE CENTER
CALLE FERROCARRIL #11 BO. PUEBLO,
LAJAS, P.R. 00667

GPS LATITUDE/LONGITUDE:
18.04941608, -67.05761236

OWNER
LAJAS MUNICIPALITY

REGISTER No.
3 5 8 - 0 3 2 - 0 7 2 - 0 1

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
--	--	--	--	--

IMPORTANT NOTES TO THE CONTRACTOR:

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE PROCEEDING WITH WORK. IF ANY DISCREPANCIES, ERRORS OR OMISSIONS SHOULD BE ENCOUNTERED ON PLANS, CONTRACTOR SHALL NOTIFY THE ENGINEER BEFORE ANY PART OF THE WORK IS STARTED SO THAT PROPER CORRECTIONS ARE MADE. IF ENGINEER IS NOT NOTIFIED PRIOR TO COMMENCING OF THE WORK, ALL DESIGNS AND DRAWINGS HEREIN AND PRINTS ISSUED BY THE ENGINEER ARE THE PROPERTY OF THE ENGINEER AND SHALL NOT BE REUSED ON ANY OTHER LOCATION EXCEPT THE ONE FOR WHICH THEY EXPRESSLY DESIGNED. IF THESE DRAWINGS OR ANY PART THEREOF IS REPRODUCED WITHOUT THE CONSENT OF THE ENGINEER, THE PERSON WHO IS DOING WILL BE INSERTED TO THE ENGINEER FOR HIS FULL COMMISSION. CONTRACTOR SHALL NOT USE FOR CONSTRUCTION PURPOSES ANY DRAWINGS THAT WERE ADVANCE TO HIM PRIOR TO THE BEGINNING OF CONSTRUCTION, ALL PLANS BEING USED BY CONTRACTOR SHOULD HAVE A LABEL SAYING "FOR CONSTRUCTION ONLY" SIGNED AND SEALED BY THE ENGINEER.

CERTIFICATION

I, WILLIAM MELENDEZ RIVAS, LIC. 16,868, CERTIFY THAT I AM THE PROFESSIONAL WHO MADE, DESIGNED OR PREPARED THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 14- 2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY" AND WITH THE (LAW NO. 319 OF MAY 15, 1938, AS AMENDED; ACT NO. 96 OF JULY 6, 1978, AS AMENDED; AS APPLICABLE). I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY IGNORANCE OR NEGLIGENCE EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE OOPC.

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654 Plaza, San Juan, PR 00918
tel. (787) 919-4898 / 5891
Email: info@ingeniumgroup

SIGNATURE

William Melendez Rivas, Ingeniero, Lic. 16868, Puerto Rico

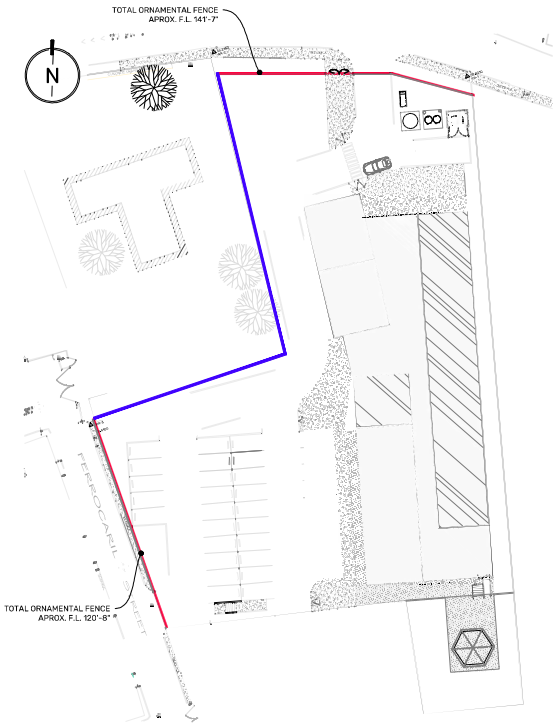
FILE

Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
WINDOWS SCHEDULE

DRAWING No.
A601

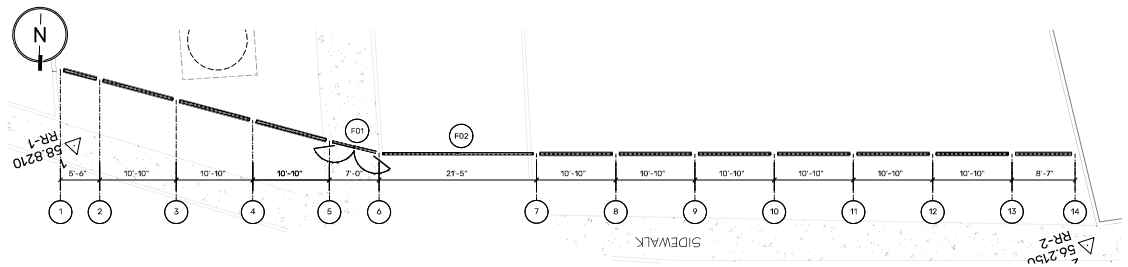
P R O P O S E D P E R I M E T E R F E N C E



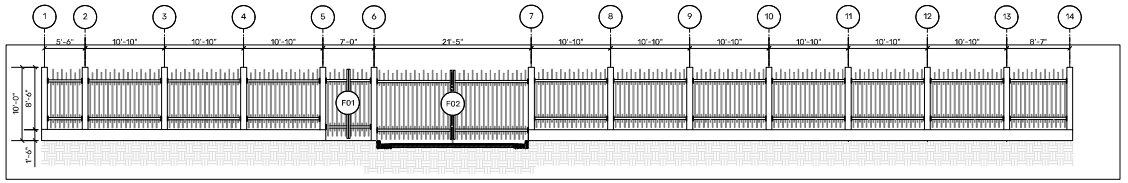
1 KEYMAP
SCALE: 1/32" = 1' - 0"

LEGEND

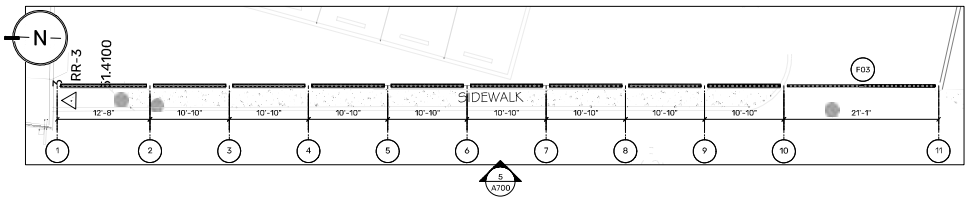
265 FL CYCLONE FENCE PROPOSED. THE HEIGHT WILL BE DEFINED AFTER HAVING THE HEIGHT OF THE RETAINING WALLS. IT IS FORESEEN TO DEFINE THIS DATA FOR THE 90% PHASE.



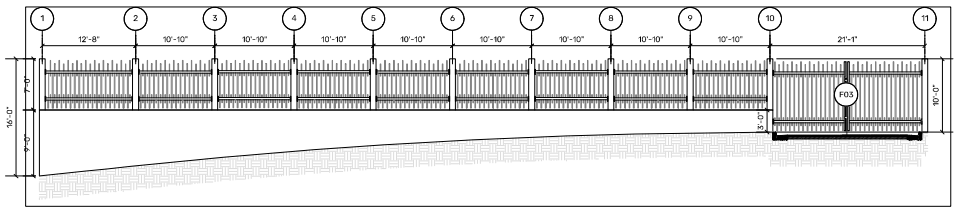
2 PROPOSED ORNAMENTAL FENCE PLAN VIEW
SCALE: 1/8" = 1' - 0"



3 PROPOSED ORNAMENTAL FENCE ELEVATION VIEW
SCALE: 1/8" = 1' - 0"



4 PROPOSED ORNAMENTAL FENCE PLAN VIEW
SCALE: 1/8" = 1' - 0"



5 PROPOSED ORNAMENTAL FENCE ELEVATION VIEW
SCALE: 1/8" = 1' - 0"

PROJECT ADDRESS
ELDERLY SERVICE CENTER
CALLE FERROCARRIL #11 BO. PUEBLO,
LAJAS, P.R. 00667

GPS LATITUDE/LONGITUDE:
18.04941608, -67.05761236

OWNER
LAJAS MUNICIPALITY

REGISTER No.
3 5 8 - 0 3 2 - 0 7 2 - 0 1

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
--	--	--	--	--

IMPORTANT NOTES TO THE CONTRACTOR:
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CERTIFICATION
I, WILLIAM MELENDEZ RIVAS, LIC. 16385, CERTIFY THAT I AM THE PROFESSIONAL WHO (MADE, DESIGNED OR PREPARED) THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 14-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY" AND WITH THE (LAW NO. 379 OF MAY 15, 1968, AS AMENDED; ACT NO. 96 OF JULY 6, 1976, AS AMENDED) AS APPLICABLE). I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY IGNORANCE OR NEGLIGENCE EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE OGPE.

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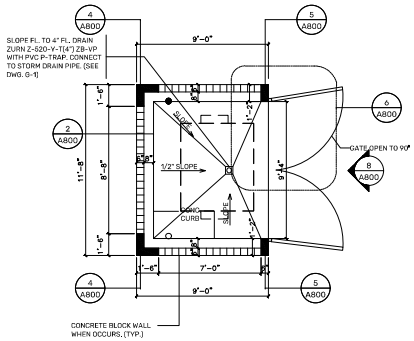
SIGNATURE
William Melendez Rivas
Engineer
Licensed
Lic. 16385
Puerto Rico

FILE
Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

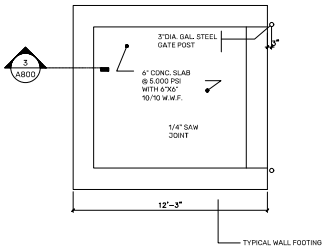
TITLE
PROPOSED PERIMETER FENCE

DRAWING No.
A700

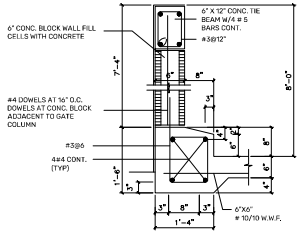
M I S C E L L A N E O U S



1 GARBAGE STATION DETAIL
SCALE: 1/4" = 1' - 0"

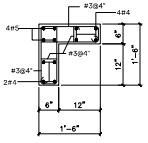


2 FOUNDATION DETAIL
SCALE: NOT TO SCALE



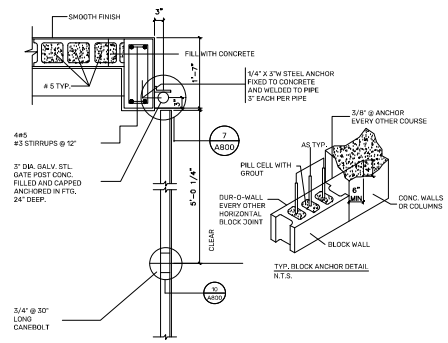
3 SECTION
SCALE: NOT TO SCALE

NOTES:
1. FOR SLAB FINISHED GRADES, SEE GRADING PLAN.
2. ALL STEEL FINISHES ARE TO BE PAINTED
3. THIS CONFIGURATION IS FOR GENERAL INFORMATION ONLY. FOR ACTUAL PROJECT CONFIGURATION SEE SITE PLAN.



4 COLUMN A
SCALE: NOT TO SCALE

5 COLUMN B
SCALE: NOT TO SCALE



6 PART. GATE PLAN
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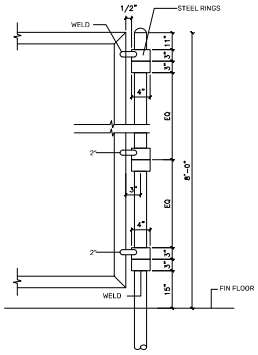
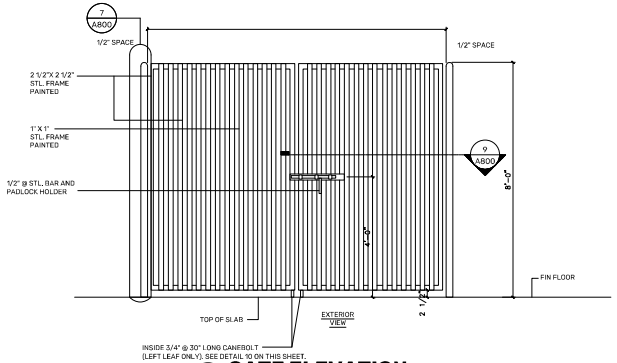
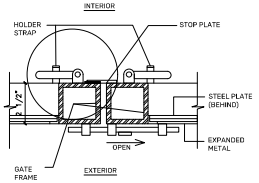


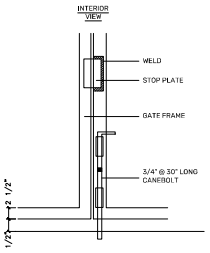
7 DETAIL
SCALE: NOT TO SCALE



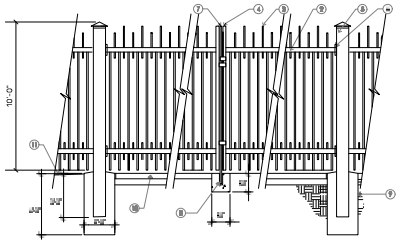
8 GATE ELEVATION
SCALE: NOT TO SCALE



9 DETAIL
SCALE: NOT TO SCALE

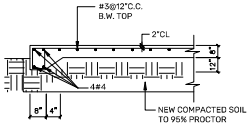


10 CANEBOLT & STOP PLATE DET.
SCALE: NOT TO SCALE



LEGEND
1. 1"x1" TUBULAR STEEL PICKET
2. 1"x3" TUBULAR STEEL RAIL
3. 3/4 "x1" TUBULAR STEEL PICKET
4. 3"x3" TUBULAR STEEL POST
5. 9"x9" TUBULAR STEEL POST,6"x6" TUBULAR STEEL POST
6. HINGE PILLOW OR HINGE BLOCK, SELF ALIGNING, LUBRICATABLE BEARING
7. 1" DROP ROD-SOLID BAR W/LOCK DEVISE & LOCK COVER
8. CONCRETE SECURITY DOWEL SLEEVE
9. CONC. FOOTING
10. ASPHALT PAVING
11. FIN. GRADE

11 ORNAMENTAL FENCE_DETAILS
SCALE: 1/4" = 1' - 0"



12 STRUCTURAL PAD [GENERATOR]
SCALE: NOT TO SCALE

PROJECT ADDRESS
ELDERLY SERVICE CENTER
CALLE FERROCARRIL #11 BO. PUEBLO, LAJAS, P.R. 00667

GPS LATITUDE/LONGITUDE: 18.04941608, -67.05761236

OWNER
LAJAS MUNICIPALITY

REGISTER No.
3 5 8 - 0 3 2 - 0 7 2 - 0 1

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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CERTIFICATION
I, WILLIAM MELENDEZ RIVAS, LIC. 16585, CERTIFY THAT I AM THE PROFESSIONAL WHO MADE, DESIGNED OR PREPARED THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 14-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY" AND WITH THE [LAW NO. 319 OF MAY 15, 1938, AS AMENDED; ACT NO. 96 OF JULY 5, 1978, AS AMENDED; AS APPLICABLE]. I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY IGNORANCE OR NEGLIGENCE EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE OGPE.

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tel. (787) 919-4992 / 4991
Email: info@ingeniumpr.com

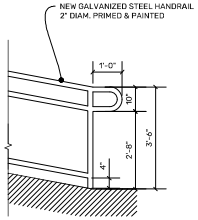
SIGNATURE
William Melendez Rivas, Ingeniero, Licenciado, Lic. 16585, Puerto Rico

FILE
Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

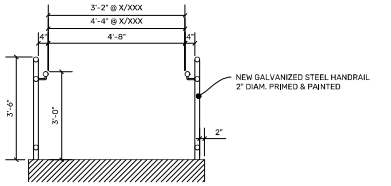
TITLE
MISCELLANEOUS

DRAWING No.
A800

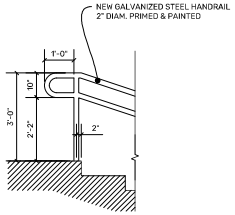
M I S C E L L A N E O U S



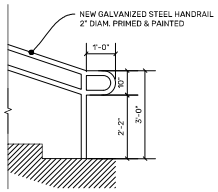
1 TYP. (42IN) RAMP HANDRAIL
SCALE: 1/2" = 1' - 0"



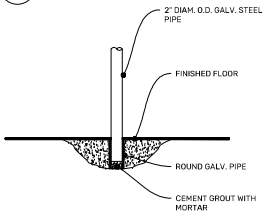
2 TYP. (42IN) RAMP HANDRAIL
SCALE: 1/2" = 1' - 0"



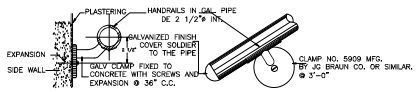
3 TYP. STAIR HANDRAIL
SCALE: 1/2" = 1' - 0"



4 TYP. STAIR HANDRAIL
SCALE: 1/2" = 1' - 0"



5 HANDRAIL POST DETAIL
SCALE: 3/8" = 1' - 0"



6 HANDRAIL DETAIL ON LATERAL WALLS
SCALE: N.T.S

PROJECT ADDRESS
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CALLE FERROCARRIL #11 BO. PUEBLO,
LAJAS, P.R. 00667

GPS LATITUDE/LONGITUDE:
18.04941608, -67.05761236

OWNER
LAJAS MUNICIPALITY

REGISTER No.
3 5 8 - 0 3 2 - 0 7 2 - 0 1

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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IMPORTANT NOTES TO THE CONTRACTOR:
CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE PROCEEDING WITH WORK. IF ANY DISCREPANCIES, ERRORS OR OMISSIONS SHOULD BE ENCOUNTERED ON PLANS, CONTRACTOR SHALL NOTIFY THE ENGINEER BEFORE ANY PART OF THE WORK IS STARTED SO THAT PROPER CORRECTIONS ARE MADE. IF ENGINEER IS NOT NOTIFIED PRIOR TO COMMENCING OF THE WORK, ALL DESIGNS AND DRAWINGS HEREIN AND PRINTS ISSUED BY THE ENGINEER ARE THE PROPERTY OF THE ENGINEER AND SHALL NOT BE REUSED ON ANY OTHER LOCATION EXCEPT THE ONE FOR WHICH THEY EXPRESSLY DESIGNED, IF THESE DRAWINGS OR ANY PART THEREOF IS REPRODUCED WITHOUT THE CONSENT OF THE ENGINEER, THE PERSON WHO IS DOING WILL BE INDEBTED TO THE ENGINEER FOR HIS FULL COMMISSION. CONTRACTOR SHALL NOT USE FOR CONSTRUCTION PURPOSES ANY DRAWINGS THAT WERE ADVANCE TO HIM PRIOR TO THE BEGINNING OF CONSTRUCTION, ALL PLANS BEING USED BY CONTRACTOR SHOULD HAVE A LABEL SAYING "FOR CONSTRUCTION ONLY" SIGNED AND SEALED BY THE ENGINEER.

CERTIFICATION
I, WILLIAM MELENDEZ RIVAS, LIC. 16,585, CERTIFY THAT I AM THE PROFESSIONAL WHO MADE, DESIGNED OR PREPARED THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 14-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY" AND WITH THE [LAW NO. 319 OF MAY 15, 1938, AS AMENDED; ACT NO. 96 OF JULY 5, 1978, AS AMENDED; AS APPLICABLE]. I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY IGNORANCE OR NEGLIGENCE EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE OGPE.

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SIGNATURE
William Melendez Rivas
Ingeniero
Licenciado
Lic. 16,585
Puerto Rico

FILE
Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
MISCELLANEOUS

DRAWING No.
A801

FINISHES SCHEDULE - CRITERIA

FINISHES SCHEDULE

ROOM	DESCRIPTION	FLOOR	WALLS	W/BASE	CEILING
100	LOBBY	FF-0	WF-0	WB-0	CF-0
101	CONFERENCE ROOM	FF-0	WF-0	WB-0	CF-0
102	ADMINISTRATIVE RECEPTION	FF-0	WF-0	WB-0	CF-0
103	RESTROOM 1	FF-1	WF-1	WB-0	CF-0
104	RESTROOM 2	FF-1	WF-1	WB-0	CF-0
105	OFFICE_1	FF-0	WF-0	WB-0	CF-0
106	OFFICE_2	FF-0	WF-0	WB-0	CF-0
107	OFFICE_3	FF-0	WF-0	WB-0	CF-0
108	OFFICE_4	FF-0	WF-0	WB-0	CF-0
109	NURSING RECEPTION	FF-0	WF-0	WB-0	CF-1
110	NURSING OFFICE	FF-0	WF-0	WB-0	CF-1
111	NURSING STORAGE	FF-0	WF-0	WB-0	CF-1
112	NURSING BATHROOM	FF-1	WF-1	WB-0	CF-0
113	NURSING AREA	FF-0	WF-0	WB-0	CF-1
114	ACTIVITY AREA	FF-0	WF-0	WB-0	CF-0
115	TERRACE	FF-0	WF-0	WB-0	CF-0
116	TV ROOM AREA	FF-0	WF-0	WB-0	CF-0
117	ACTIVITIES WORKSHOP	FF-0	WF-0	WB-0	CF-0
118	WOMEN'S BATHROOM	FF-1	WF-1	WB-0	CF-0
119	MEN'S BATHROOM	FF-1	WF-1	WB-0	CF-0
120	LAUNDRY	FF-0	WF-0	WB-0	CF-0
121	STORAGE	FF-0	WF-0	WB-0	CF-0
121a	ELECTRIC ROOM	FF-0	WF-0	WB-0	CF-0
122	LUNCH AREA	FF-0	WF-0	WB-0	CF-0
123	KITCHEN	FF-0	WF-0	WB-0	CF-0
124	UTILITY ROOM	FF-0	WF-0	WB-0	CF-0
125	KITCHEN BATHROOM	FF-1	WF-1	WB-0	CF-0
126	DISPOSABLE STORAGE	FF-0	WF-0	WB-0	CF-0
127	WALK IN FREEZER	FF-0	WF-0	WB-0	CF-0
128	LAVATORY	FF-0	WF-0	WB-0	CF-0
129	CHEMICAL STORAGE	FF-0	WF-0	WB-0	CF-0
130	DRY STORAGE	FF-0	WF-0	WB-0	CF-0
131	KITCHEN OFFICE	FF-0	WF-0	WB-0	CF-0

EXTERIOR FINISHES SCHEDULE

ROOM	DESCRIPTION	FLOOR	WALLS
1	FRONT ELEVATION	FF-0	WF-0/WF-2
2	REAR ELEVATION	FF-0	WF-0
3	RIGHT ELEVATION	FF-0	WF-0
4	LEFT ELEVATION	FF-0	WF-0
5	GAZEBO AREA	FF-2	-

IMPORTANT NOTE:

- ANY SPECIFIED FIXTURES OR FURNITURE MUST BE EQUAL OR SIMILAR AND SHOULDN'T BE BRAND SPECIFIC. ANY SPECIFIED BRAND IS ONLY FOR CONTRACTOR'S CONVENIENCE AND SHOULDN'T BE INTERPRETED AS THE ONLY CHOICES. CONTRACTOR MUST SUBMIT SHOP DRAWINGS OF FIXTURES AND/OR FURNITURE TO BE USED.

WALL COMPOSITION SCHEDULE

WALL TYPE	DESCRIPTION
TYPE I	REINFORCED CONCRETE [STRUCTURAL PURPOSE] WALL/COLUMN. FINISH MAY BE EXPOSED OR ELSE. CEMENT PLASTERED INDICATED ON FINISH SCHEDULE ON THIS SHEET. REFER TO SECTIONS AND ELEVATIONS FOR MORE INFORMATION.
TYPE II	PROPOSED 6" REINFORCED CONCRETE MASONRY WALL WITH DUR-O WALL IN EACH COURSE AND VERTICAL REINFORCEMENT BARS #3 @ 16" WITHOUT SPLICE FOR THE FIRST TWO COURSES. CONSIDER CONCRETE REINFORCEMENT COLUMNS AT ALL CONNECTING CORNERS, ENDS, AND AROUND ALL OPENINGS. FOR MORE DETAILS SEE STRUCTURAL SHEETS. FINISHED IN CEMENT PLASTER AND PAINT AS INDICATED IN THE DRAWINGS.
TYPE III	PROPOSED 4" NON-BEARING DRYWALL PARTITION [FOR INTERIOR PURPUSE]. EXTENDS THROUGH CEILING PLANE UP TO BUILDING STRUCTURE. SINGLE SHEETS OF 5/8" THICK TYPE X GYP.BD PANELS FIXED TO 3-1/2" WIDE LIGHTWEIGHT GALV. SHEETMETAL STUDS @ 16" C.C. FIXED TO FLOOR TRACK AND TOP TRACK ONTO STRUCTURAL SLAB.
TYPE IV	PROPOSED 8" REINFORCED CONCRETE MASONRY WALL WITH DUR-O WALL IN EACH COURSE AND VERTICAL REINFORCEMENT BARS #3 @ 16" WITHOUT SPLICE FOR THE FIRST TWO COURSES. CONSIDER CONCRETE REINFORCEMENT COLUMNS AT ALL CONNECTING CORNERS, ENDS, AND AROUND ALL OPENINGS. FOR MORE DETAILS SEE STRUCTURAL SHEETS. FINISHED IN CEMENT PLASTER AND PAINT AS INDICATED IN THE DRAWINGS.

FINISHES CRITERIA

FLOOR FINISHES

FF-0: PROPOSED POLISHED CONCRETE HARDENER. COLOR GRAY.

FF-1: PROPOSED 15"X30" ROCK SPRINGS PEARL PORCELAIN TILE (WITH ANTISLIP SURFACE) IN BATHROOMS. INSTALL WITH MINIMUM JOINT TO COVER WITH GRAY EPOXY GROUT. TILES WILL BE PROVIDED AND INSTALLED BY CONTRACTOR.

FF-2: PROPOSED 12 IN. X 24 IN. CORSO ITALIA, ALPE GRAPHITE. GRAY MATTE PORCELAIN STONE LOOK FOR EXTERIOR FLOOR.

WALL FINISHES

WF-0: PROPOSED INTERIOR CONCRETE CEMENT WALLS. FINISH WITH 1/4" THICK PORTLAND CEMENT PLASTER OVER PROCESED CONCRETE. [PRIME WALL WITH (THORO-BOND) BONDING AGENT. ONCE THE PLASTER IS DRY AND HARD, APPLY TWO-COATS OF PREMIUM LATEX-BASED INTERIOR PAINT OVER PRIMER [PRIMER AND PAINT WILL BE SELECTED BY OWNER AND APPLIED BY GENERAL CONTRACTOR].

WF-1: PROPOSED 15"X30" ROCK SPRINGS PEARL PORCELAIN TILE IN BATHROOMS. INSTALL WITH MINIMUM JOINT TO COVER WITH GRAY EPOXY GROUT. TILES WILL BE PROVIDED AND INSTALLED BY CONTRACTOR.

WF-2: PROPOSED TEXTURE ON WALL. 42 IN. X 12 IN. STACKED STONE DESERT SUNRISE. COMPOSITE FAUX STONE SIDING PANEL. INSTALL WITH MINIMUM JOINT TO COVER WITH GRAY EPOXY GROUT.

WALL BASE

WB-0: PROPOSED WALL BASE'S WILL BE ATTAINED BY CUTTING THE SAME (FF-0, FF-1, FF-3) FLOOR MATERIAL TO PRODUCE 4 IN HEIGHT - WALL BASE STRIPS.

CEILING FINISHES

CF-0: 1/4" - THICK PORTLAND CEMENT PLASTER APPLIED DIRECTLY ON EXPOSED SURFACE OF CONCRETE SLAB. APPLY (THORO-BOND) BONDING AGENT PRIOR TO APPLY FINISH. ONCE THE PLASTER IS DRY AND HARD, APPLY TWO-COATS OF PREMIUM LATEX-BASED INTERIOR PAINT OVER PRIMER BLACK COLOR.

CF-1: NEW PROPOSED 24" X 24" ACOUSTICAL TILE SUSPENDED CEILING. COMPLETE WITH SUPPORTING FRAME ACOUSTIC TILE MUST BE EQUAL TO ARMSTRONG TUNDRA #304/ 9/ 16 WHITE FROM CONTRACTOR'S FURNISHED CATALOG OF READILY AVAILABLE MODELS. ALL TILES SHALL BE. SAG-RESISTANT AND FIRE-RATED.

FINISHES NOTES

1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON SITE
2. THE AREA MARKED WITH A DIAGONAL LINE INDICATES THAT IT DOES NOT REQUIRE SUBSTANTIAL INTERVENTION. IT ONLY REQUIRES RESURFACING AND PAINTING WITH PRIMER AND 2 COATS OF PAINT ON WALLS AND CEILING. THE EXISTING FLOOR SHOULD BE POWER WASHED AND POLISHED.
3. ANY INSTALLATION, PRODUCT AND MATERIAL SPECIFIED UNDER THIS PROJECT AND IDENTIFIED BY A TRADENAME OR TRADEMARK IS INTENDED ONLY IN ORDER TO ESTABLISH THE TYPE AND QUALITY OF THE INSTALLATION. PRODUCT AND MATERIAL CONTRACTOR MAY SUBMIT SUBSTITUTION FOR APPROVAL WHENEVER SUCH INSTALLATION, PRODUCT AND MATERIALS COMPLY WITH TECHNICAL SPECIFICATIONS.
4. ALL ARCHITECTURAL FINISHES AND COLORS SHALL BE APPROVED BY THE ARCHITECT. WHEN REQUIRED IN THE CONTRACT DOCUMENTS, AND WITH PRIOR NOTICE TO THE CONTRACTOR, ANY OF THE ARCHITECTS APPROVAL MAY BE REFEREED TO THE OWNER FOR ADDITIONAL APPROVAL. TIE USED FOR ALL THESE APPROVALS SHALL BE TAKEN ACCOUNTS FOR THE TOTAL CONSTRUCTION OF THE PROJECT.
5. ALL CONCRETE BLOCK SURFACE SHALL BE FINISHED WITH CEMENT PLASTER $\frac{3}{8}$' MINIMUM
6. ALL CONCRETE BLOCK OR GYPSUM BOARD WALL SHALL BE BUILT UP TO 4" ABOVE CEILING MINIMUM, UNLESS OTHERWISE INDICATED.
7. ALL GALVANIZED STEEL GUARDS FALS AND HANCRAWS SHALL BE PRIMED AND PAINTED; COLOR IN SELECTED BY ARCHITECT.
8. THE CONTRACTOR MUST PROVIDE EXPANSION JOINTS FOR THE FLOOR. SUBMIT MODEL TO ARCHITECT FOR APPROVAL.

NOTES FOR PAINTING

1. THE CONTRACTOR SHALL PAINT ALL INTERIOR AND EXTERIOR WALLS WITH THREE COATS OF PAINT OR ACCEPTED SUBSTITUTE SUCH AS TWO COATS OF PAINT WITH PRIMER, COLOR SHALL BE WHITE UNLESS OTHERWISE SPECIFIED OR SELECTED BY THE ARCHITECT.
2. CONTRACTOR SHALL PROVIDE A 5 YEAR WARRANT ON ALL PAINT .
3. THE THREE COATS SYSTEM CONSISTS OF A SEALER PRIMER COAT AND TWO FINISH COATS.
   - 3.1. PRIMER EQUAL OR BETTER THAN INTERIOR LATEX PRIMER PREPRITE 400 B28W400 BY SHERWIN WILLIAMS.
   - 3.2. ACRYLIC LATEX MATTE FINISH EQUAL OR BETTER THAN A-100 SERIES BY SHERWIN WILLIAMS FOR THE EXTERIOR.
   - 3.3. ACRYLIC LATEX EGG SHELL FINISH EQUAL OR BETTER THAN PROMAR-400 SERIES BY SHERWIN WILLIAMS FOR THE INTERIOR.
   - 3.4. WATERBASED EPOXY COATING BY SHERWIN WILLIAMS FOR THE BATHROOMS.
4. PAINT SHALL BE EQUAL OR SIMILAR APPROVED TO PRODUCT SPECIFIED BY ARCHITECT AND IN COMPLIANCE WITH PAINT TECHNICAL SPECIFICATION SECTION
5. ALL EXTERIOR WALL SURFACE SHALL BE PAINT AND RETOUCHED AS NECESSARY, AFTER COMPLETION OF CONSTRUCTION WORK
6. CONTRACTOR SHALL REPAIR DAMAGED CONCRETE BEFORE PAINTING.
7. DOOR PAINT SYSTEM CONSISTS OF ONE COAT OF PRIMER AND TWO FINISH COATS.
   - 7.1. PRIMER EQUAL OR BETTER THAN ALL SURFACE ENAMEL OIL PRIMER A11 SERIES BY SHERWIN WILLIAMS.
   - 7.2. ALL SURFACE ENAMEL OIL PAINT A11 SERIES BY SHERWIN WILLIAMS.
8. CONTRACTOR SHALL PROVIDE AND INSTALL IDENTIFICATION SIGNS FOR ALL SPACES.

WATER PROOFING

1. WARRANTY FOR THE WATERPROOFING TREATMENT SHALL BE A 5 YEARS IN ADDITION TO REGULAR MANUFACTURER AND INSTALLER WARRANTIES.
2. ALL DEMOLITION AND CONSTRUCTION WORK SHALL BE COORDINATED WITH THE OWNER TO PREVENT POSSIBLE CONFLICTS WITH THE OWNER'S NORMAL WORKING CONDITIONS.
3. THE CONTRACTOR SHALL APPLY A SYSTEM EQUAL OR SUPERIOR TO THE ONE SPECIFIED. PROPOSED PRODUCTS SHALL HAVE EQUAL OR BETTER CHARACTERISTICS THAN THE ONE SPECIFIED. PRODUCTS WITH CHARACTERISTICS LESS THAN THE ONE SPECIFIED WILL NOT BE ACCEPTED FOR THIS PROJECT.
4. CONTRACTOR SHALL PROVIDE, USE, AND/OR INSTALL ANY COMPONENT OR PRODUCT FOR THE REQUIRED SYSTEM, NOT SPECIFIED BUT NECESSARY FOR THE PROPER INSTALLATION OF THE WATERPROOFING SYSTEM.
5. WORK SHALL BE VERIFY AND CERTIFIED BY A QUALIFIED REPRESENTATIVE FROM THE MANUFACTURER OF THE WATERPROOFING SYSTEM.
6. CONTRACTOR SHALL VISIT THE PROJECT SITE TO BECOME FAMILIAR WITH THE REQUIRED WORK AND SHALL VERIFY ACTUAL DIMENSIONS AND CONDITIONS TO CONSIDER ANY DIFFICULTIES AND COST IN BASE BID.
7. WORK SHALL BE PERFORMED BY PERSONNEL SKILLED IN THIS TRADE AND WITH THE BEST PRACTICE OF THE TRADE.

ROOF SCOPE OF WORK

1. THE WATERPROOFING SYSTEM CONSISTS OF:
   A) PRESSURE WASH CLEAN ALL ROOF AREAS.
   B)INSTALL ONE PLY WHITE ALUMINUM SBS MODIFIED BITUMEN TOP MEMBRANE SIMILAR TO GLASDAN AL80 PEARL WHITE.
2. INSTALL CAP FLASHINGS AT ALL PARAPETS FOLLOWING MANUFACTURER,S RECOMENDATIONS SEE TYP. DETAIL ON SHEET A103
3. INSTALL CHEM CURBS TO ANY TUBING THAT PASSES THROUGH THE WATERPROOFING SYSTEM.

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CERTIFICATION
I, WILLIAM MELENDEZ RIVAS, LIC. 16383, CERTIFY THAT I AM THE PROFESSIONAL WHO TRACK, DESIGNED OR PREPARED THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY SOURCE OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS WAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 9-2004, AS AMENDED, KNOWN AS THE LAW OF THE PROFESSIONAL ENGINEER AND LAND SURVEYOR AND WITH THE LAW NO. 179 OF MAY 16, 1938, AS AMENDED; ACT NO. 76 OF JULY 5, 1978, AS AMENDED, AS APPLICABLE.) I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT WAS BEEN PRODUCED BY IGNORANCE OF NEGLIGENCE EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE DGPE.

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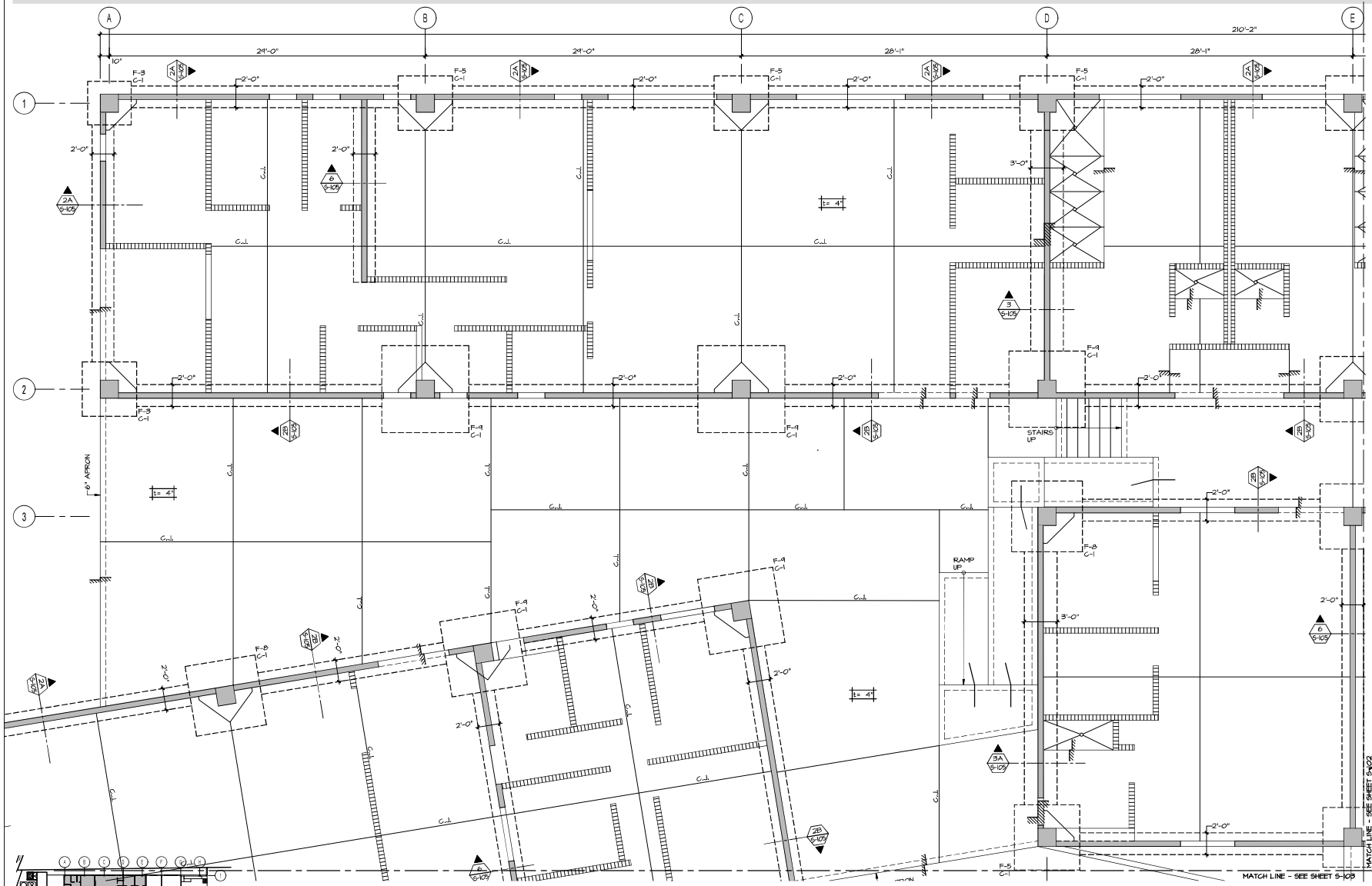
SIGNATURE

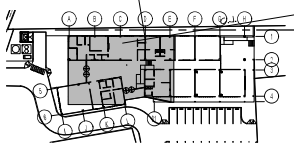
FILE
Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
FINISHES SCHEDULE

DRAWING No.
A900

PAGE: 48/89





KEY PLAN

PARTIAL FOUNDATION PLAN

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

PROJECT ADDRESS
ELDERLY SERVICE CENTER
CALLE FERROCARRIL #11 BO.
PUEBLO, LAJAS, P.R. 00667

GPS LATITUDE/LONGITUDE:
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LAJAS MUNICIPALITY

REGISTER No.
358-032-072-01

REVISIONS

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SIGNATURE

ANIBAL SALGADO DIAZ
INGENIERO LICENSED
E-19435
PUERTO RICO

FILE
Dwg Name: INGENIUM GROUP
Drawn by: K.Y.P.
Revised by: A.S.D.
Plot Scale: AS SHOWN
Progress Print:

TITLE
PARTIAL FOUNDATION PLAN & KEY PLAN

DRAWING No.
S-101

PAGE: 001 52

ASD
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STRUCTURAL ENGINEER
URB. LA CUMBRE #606, STE. CLARA, SN PEDRO P.R.
(PUERTO RICO, PUERTO RICO)
TELEF.: 787-615-2139
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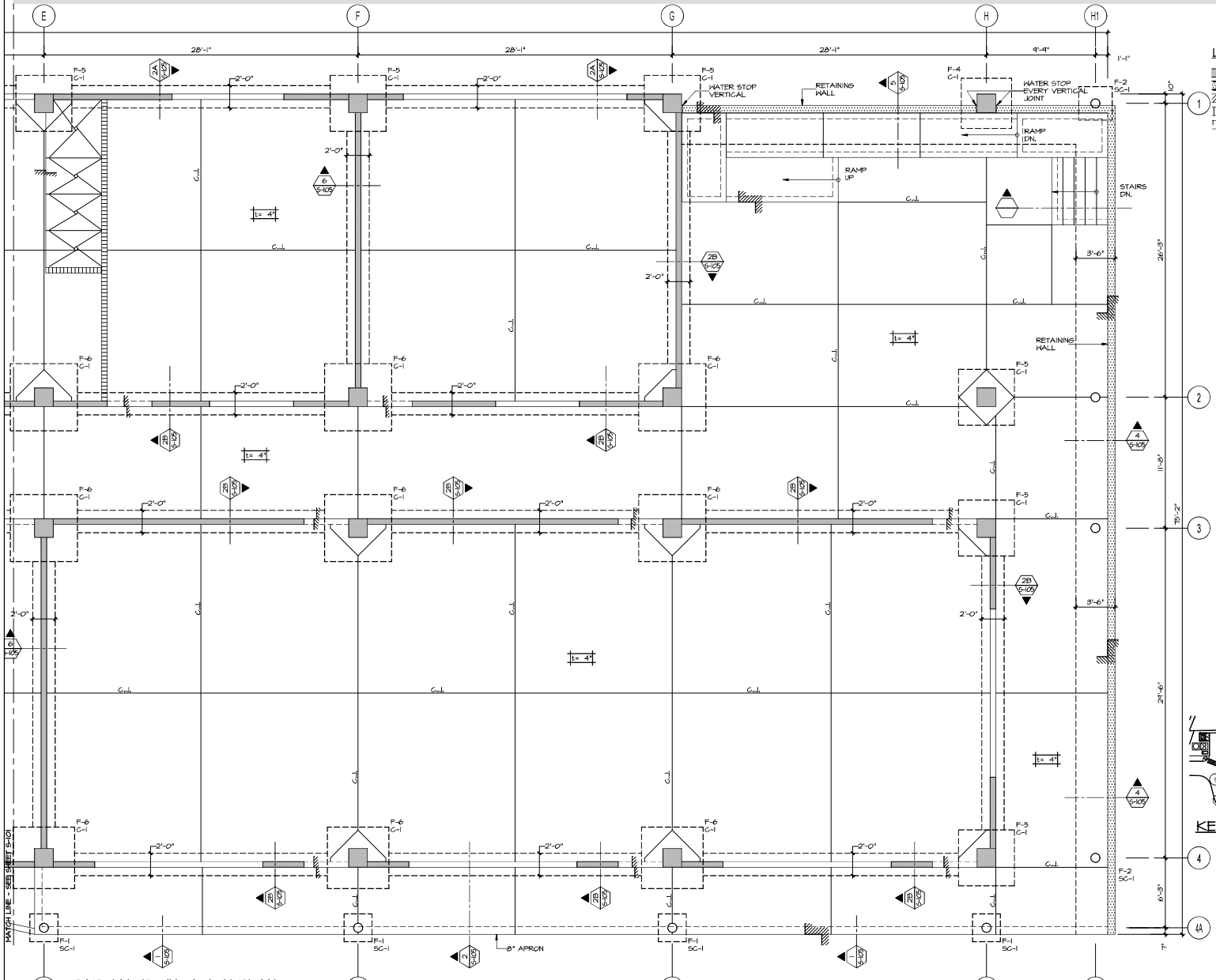
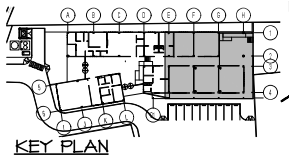
PROJECT: 23-07
DATE: 10-23-2023



PARTIAL FOUNDATION PLAN
Scale: 1/4" = 1'-0"

LEGEND:

- CONC. WALL OR COL. ABOVE & BELOW
- CONC. WALL OR COL. BELOW ONLY
- CONC. WALL OR COL. ABOVE ONLY
- MASONRY WALL
- MASONRY WALL BELOW



KEY PLAN

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CERTIFICATION

I, WILLIAM MELENDEZ RIVAS, LIC. 16383, CERTIFY THAT I AM THE PROFESSIONAL WHO [MADE, DESIGNED OR PREPARED] THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 14-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY" AND WITH THE [LAW NO. 319 OF MAY 15, 1938, AS AMENDED; ACT NO. 96 OF JULY 6, 1978, AS AMENDED; AS APPLICABLE]. I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY IGNORANCE OR NEGLIGENCE EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE OGPE.

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SIGNATURE

FILE

Dwg Name: INGENIUM GROUP

Drawn by: K.Y.P.

Revised by: A.S.D.

Plot Scale: AS SHOWN

Progress Print:

TITLE

PARTIAL FOUNDATION PLAN & KEY PLAN

ANIBAL SALGADO DIAZ, MSCE, P.E.
STRUCTURAL ENGINEER
OFFICE: CATALINA ALAMA, ESQ. CARRIL, RIO PIEDRAS P.R.
(MEDIAS DEL PLATANAL)
DIRECCION DE CALLE TOTA - RUTA 1210 - CERRADO P.R. 00776
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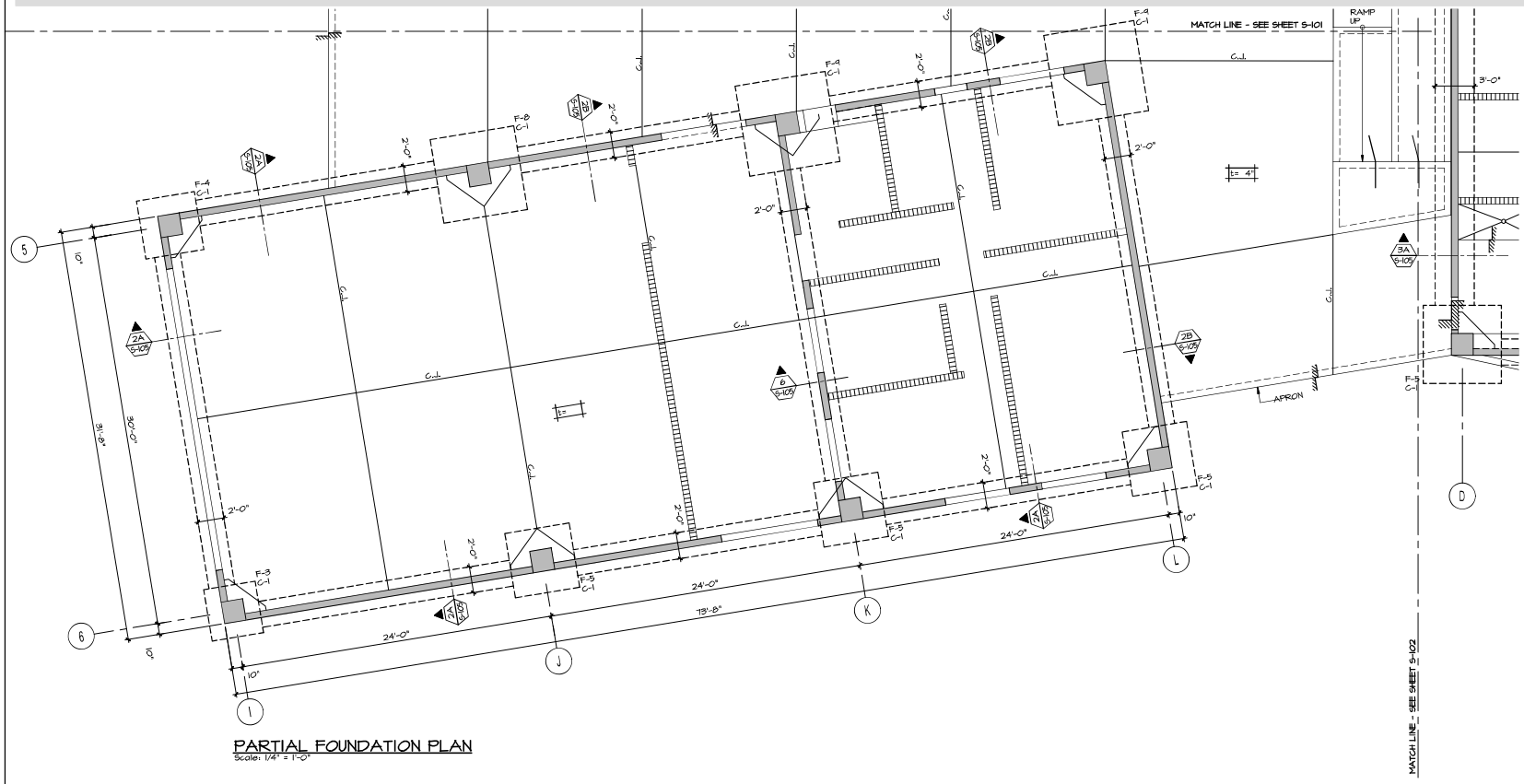
PROJECT: 23-87
DATE: 10-23-2023

DRAWING No.
S-102

PAGE: 001 52



PARTIAL FOUNDATION PLAN

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

PROJECT ADDRESS

ELDERLY SERVICE CENTER
CALLE FERROCARRIL #11 BO.
PUEBLO, LAJAS, P.R. 00667

GPS LATITUDE/LONGITUDE:
18.04941608, -67.05761236

OWNER

LAJAS MUNICIPALITY

REGISTER No.

358-032-072-01

REVISIONS

REV.	DATE	DESCRIPTION	BY CHK'D
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FILE

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Drawn by: K.Y.P.

Revised by: A.S.D.

Plot Scale: AS SHOWN

Progress Print:

TITLE

PARTIAL FOUNDATION PLAN & KEY PLAN

DRAWING No.

S-103

PAGE: 001 52

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PHONE: 787-720-0250
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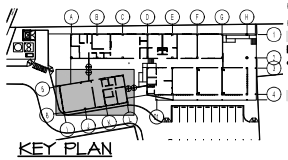
PROJECTS: 23-07

DATE: 10-23-2023

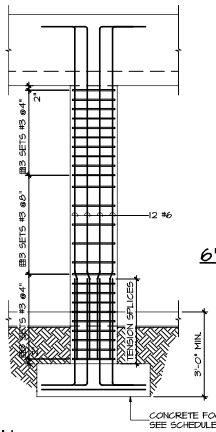


SQUARE FOOTING REINFORCEMENT SCHEDULE

FOOTING MK'D	A x A	T	REINF. # T (B, E.W.)
F-1	2'-6" x 2'-6"	12"	4 #4
F-2	3'-0" x 3'-0"	12"	4 #4
F-3	4'-0" x 4'-0"	12"	5 #4
F-4	4'-6" x 4'-6"	13"	6 #4
F-5	5'-0" x 5'-0"	13"	7 #4
F-6	5'-6"x 5'-6"	14"	6 #5
F-7	6'-0" x 6'-0"	15"	7 #5
F-8	6'-6" x 6'-6"	16"	8 #5
F-9	7'-0" x 7'-0"	18"	9 #5

TENSION SPLICES

BAR	f'c = 3,0 ksi	f'c = 4,0 ksi	f'c = 5,0 ksi
	LENGHT	LENGHT	LENGHT
#3	24"	22"	20"
#4	34"	28"	26"
#5	42"	36"	32"
#6	50"	42"	38"
#7	58"	50"	44"
#8	66"	58"	52"
#9	74"	66"	58"
#10	82"	74"	64"
#11	90"	80"	70"



TYPICAL
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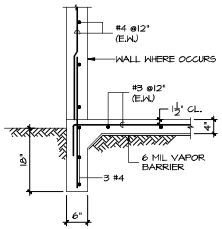
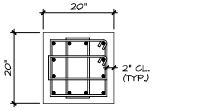
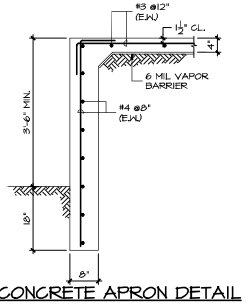


6" CONCRETE APRON DETAIL



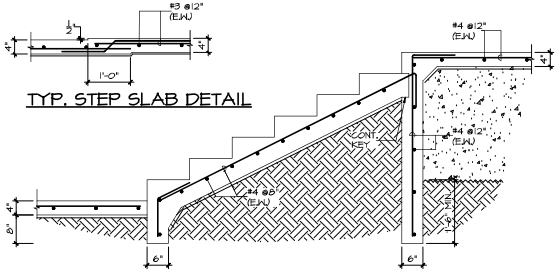
VERTICAL REINF. = 12 #6
STIRRUPS # = 10 @#3 @4" (3 SETS) at ENDS
@#3 @6" REST

CONCRETE
COLUMN MK'D C-1

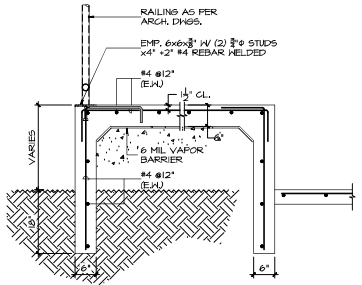


8" CONCRETE APRON DETAIL

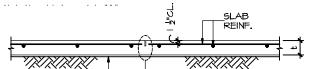
TYP. STEP SLAB DETAIL



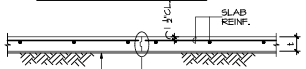
STAIR ON GRADE DETAIL



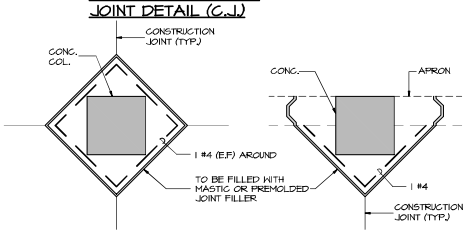
TYPICAL RAMP DETAIL



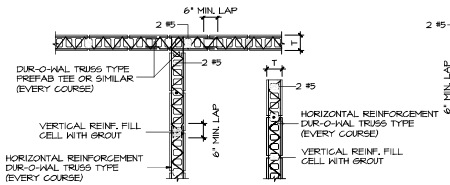
SAW-CUT CONTROL
JOINT DETAIL (S.C.J.)



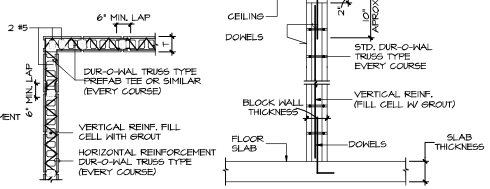
SLAB CONSTRUCTION
JOINT DETAIL (C.J.)



TYPICAL ISOLATION JOINT DETAIL



AT INTERSECTION AT END WALL AT CORNER
TYPICAL CONC. BLOCK WALL REINFORCEMENT DETAILS



BLOCK WALL TO SLAB
ANCHORAGE DETAIL

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. 3,000 psf @ 3'-0" below Existing Grade as per soil report prepared for this project by Almonte & Asociados, LLC Drilling Contractor, dated May 4, 2023. 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. ¼ the narrowest dimensions between sides of forms nor,
   b. ⅓ 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. Four 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.)
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 C476-88 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.
4"	#3 @16" or #4 @32"	Dur-O-Wal STD E.O. Course
6"	#3 @16" or #4 @32"	Dur-O-Wal STD 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) Storage 125 psf
2. Wind Loads
   a) As per ANSI/ASCE 7-2016
3. Seismic Loads
   a) As per IBC-2018

F. Applicable Codes

1. ACI 318-2016
2. IBC-2018
3. ANSI/ASCE 7-2016

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358-032-072-01

REVISIONS

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Dwg Name: INGENIUM GROUP
Drawn by: K.Y.P.
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Plot Scale: AS SHOWN
Progress Print:

TITLE
STRUCTURAL NOTES, SECTIONS & DETAILS

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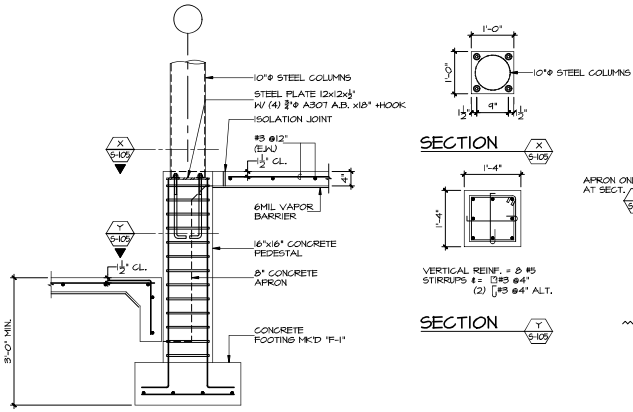
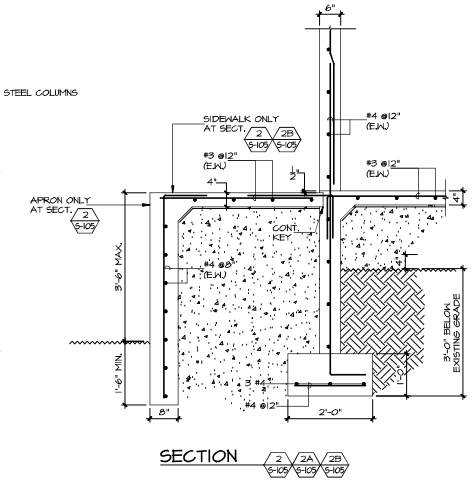
PROJECT: 23-07

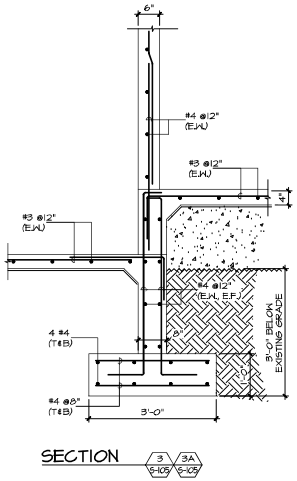
DATE: 10-23-2023

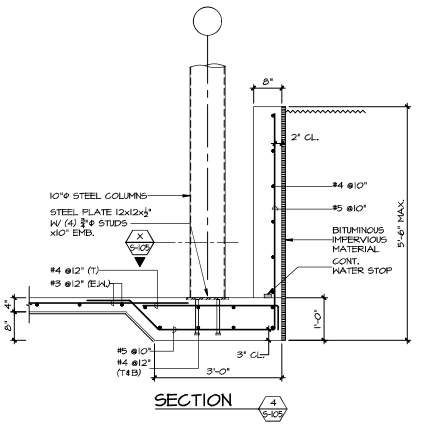
DRAWING No.
S-105

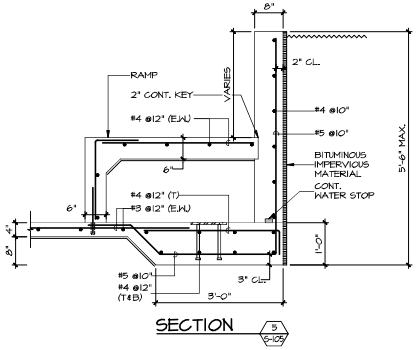
PAGE: 001 52

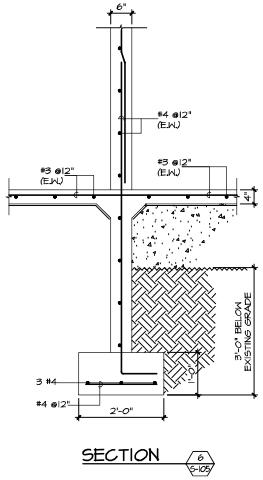












PROJECT ADDRESS
ELDERLY SERVICE CENTER
CALLE FERROCARRIL #11 BO. PUEBLO, LAJAS, P.R. 00667

GPS LATITUDE/LONGITUDE:
18.04941608, -67.05761236

OWNER
LAJAS MUNICIPALITY

REGISTER No.
358-032-072-01

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHKD
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IMPORTANT NOTES TO THE CONTRACTOR:
CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE PROCEEDING WITH WORK. IF ANY DISCREPANCIES, ERRORS OR OMISSIONS SHOULD BE ENCOUNTERED ON PLANS, CONTRACTOR SHALL NOTIFY THE ENGINEER FOR CLARIFICATION BEFORE WORK IS STARTED SO THAT PROPER CORRECTIONS ARE MADE. IF ENGINEER IS NOT NOTIFIED PRIOR TO COMMENCING OF THE WORK, ALL DESIGNS AND DRAWINGS HEREIN AND PRINTS ISSUED BY THE ENGINEER ARE THE PROPERTY OF THE ENGINEER AND SHALL NOT BE REUSED ON ANY OTHER LOCATION EXCEPT THE ONE FOR WHICH THEY EXPRESSLY DESIGNED. IF THESE DRAWINGS OR ANY PART THEREOF IS REPRODUCED WITHOUT THE CONSENT OF THE ENGINEER, THE PERSON WHO IS DOING WILL BE INDEBTED TO THE ENGINEER FOR HIS FULL COMMISSION. CONTRACTOR SHALL NOT USE FOR CONSTRUCTION PURPOSES ANY DRAWINGS THAT WERE ADVANCE TO HIM PRIOR TO THE BEGINNING OF CONSTRUCTION. ALL PLANS WITH SEAL BY CONTRACTOR SHOULD HAVE A "RELEASED FOR CONSTRUCTION ONLY" STAMPED AND SIGNED BY THE ENGINEER.

CERTIFICATION
I, WILLIAM MELENDEZ RIVAS, LIC. 16383, CERTIFY THAT I AM THE PROFESSIONAL WHO [MADE, DESIGNED OR PREPARED] THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PROJECT DESIGN HEREIN CONTAINED AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 14-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY" AND WITH THE [LAW NO. 319 OF MAY 15, 1938, AS AMENDED; ACT NO. 68 OF JULY 6, 1978, AS AMENDED; AS APPLICABLE] I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY IGNORANCE OR NEGLIGENCE EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE OGPE.

654 Ave. Walker Rivera – Suite 1828
Mda Playa, San Juan, PR 00727
Tel. (787) 216-5282 / 5284
Email: info@ingenium.group

SIGNATURE

ANIBAL SALGADO DIAZ
INGENIERO
LICENSED
E-28435
PUERTO RICO

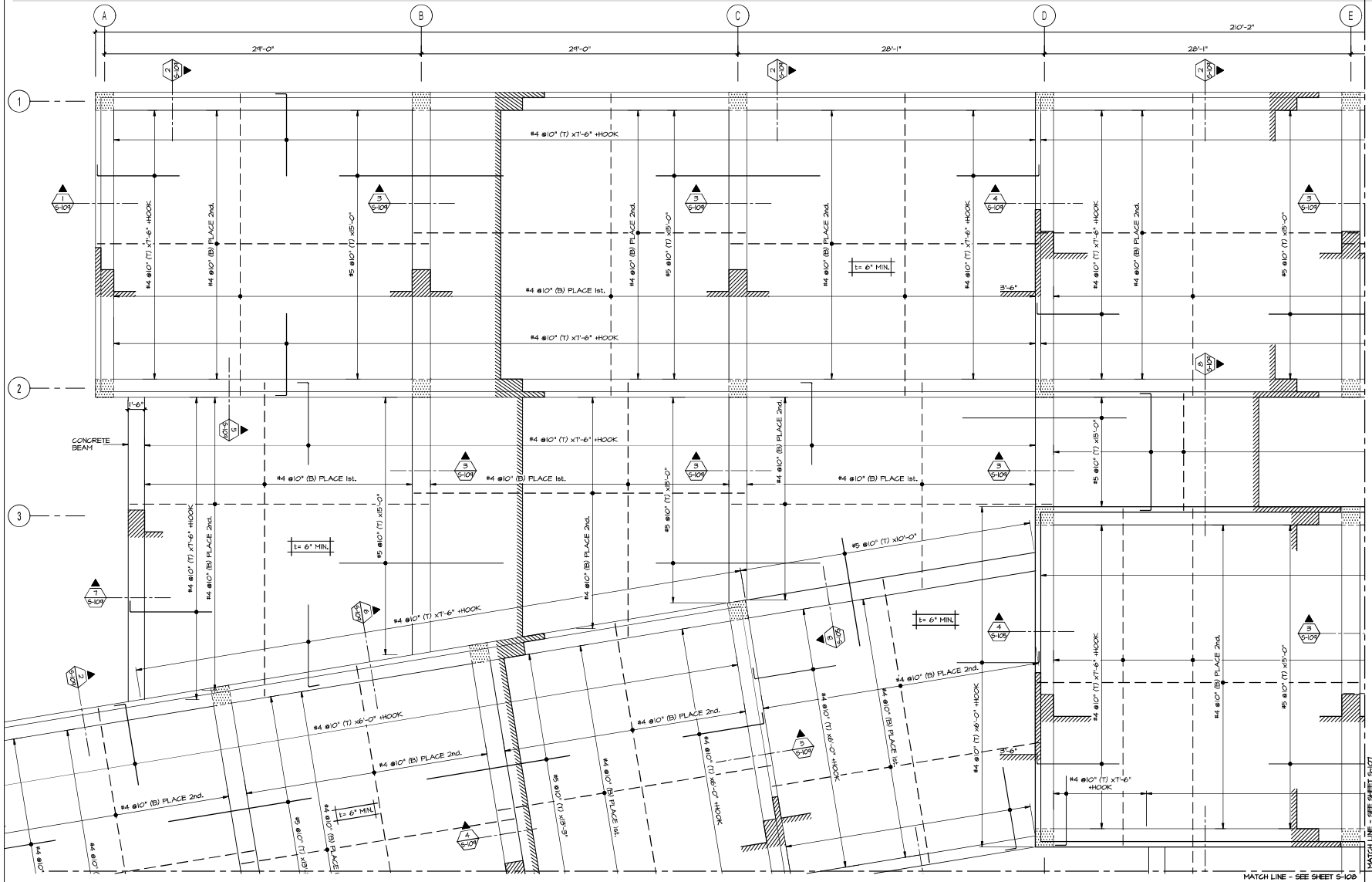
FILE
Dwg Name: INGENIUM GROUP
Drawn by: K.Y.P.
Revised by: A.S.D.
Plot Scale: AS SHOWN
Progress Print:

TITLE
SECTIONS & DETAILS

ANIBAL SALGADO DIAZ, MSCE, P.E.
STRUCTURAL ENGINEER
[illegible]
DATE: 10-23-2023

DRAWING No.
S-105

PAGE: 001 52



PARTIAL STRUCTURAL PLAN

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

PROJECT ADDRESS
ELDERLY SERVICE CENTER
CALLE FERROCARRIL #11 BO.
PUEBLO, LAJAS, P.R. 00667

GPS LATITUDE/LONGITUDE:
18.04941608, -67.05761236

OWNER
LAJAS MUNICIPALITY

REGISTER No.
358-032-072-01

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D

IMPORTANT NOTES TO THE CONTRACTOR:

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE PROCEEDING WITH WORK. IF ANY DISCREPANCIES, ERRORS OR OMISSIONS SHOULD BE ENCOUNTERED ON PLANS, CONTRACTOR SHALL NOTIFY THE ENGINEER FOR WRITTEN INSTRUCTIONS BEFORE STARTING THAT PROPER CORRECTIONS ARE MADE. IF ENGINEER IS NOT NOTIFIED PRIOR TO COMMENCING OF THE WORK, ALL DESIGNS AND DRAWINGS HEREIN AND PRINTS ISSUED BY THE ENGINEER ARE THE PROPERTY OF THE ENGINEER AND SHALL NOT BE REUSED ON ANY OTHER LOCATION EXCEPT THE ONE FOR WHICH THEY EXPRESSLY DESIGNED. IF THESE DRAWINGS OR ANY PART THEREOF IS REPRODUCED WITHOUT THE CONSENT OF THE ENGINEER, THE PERSON WHO IS DOING WILL BE INDEBTED TO THE ENGINEER FOR HIS FULL COMMISSION. CONTRACTOR SHALL NOT USE FOR CONSTRUCTION PURPOSES ANY DRAWINGS THAT WERE ADVANCE TO HIM PRIOR TO THE BEGINNING OF CONSTRUCTION. ALL PLANS BEING ISSUED BY CONTRACTOR SHOULD HAVE A "MARKED FOR" TO OR CONSTRUCTION ONLY" STAMPED AND SIGNED BY THE ENGINEER.

CERTIFICATION

I, WILLIAM MELENDEZ RIVAS, LIC. 16383, CERTIFY THAT I AM THE PROFESSIONAL WHO [MADE, DESIGNED OR PREPARED] THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PROJECTS DESIGN HAS BEEN DONE AND THE CONSTRUCTION WILL BE COMPLIED WITH THE PROVISIONS OF LAW 14-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT AT THE PUERTO RICAN INDUSTRY" AND WITH THE [LAW NO. 319 OF MAY 15, 1938, AS AMENDED; ACT NO. 68 OF JULY 6, 1978, AS AMENDED; AS APPLICABLE] I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY IGNORANCE OR NEGLIGENCE EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE OGPE.

604 Ave. Muñoz Rivera - Suite 1808
Edificio Popular Center, PR 00918
Tel. (787) 919-5262 / 5264
Email: info@ingenium.group

SIGNATURE

ANIBAL SALGADO DIAZ
INGENIERO
LICENCIA
E-29435
PUERTO RICO

FILE

Dwg Name: INGENIUM GROUP
Drawn by: K.Y.P.
Revised by: A.S.D.
Plot Scale: AS SHOWN
Progress Print:

TITLE

PARTIAL STRUCTURAL PLAN & KEY PLAN

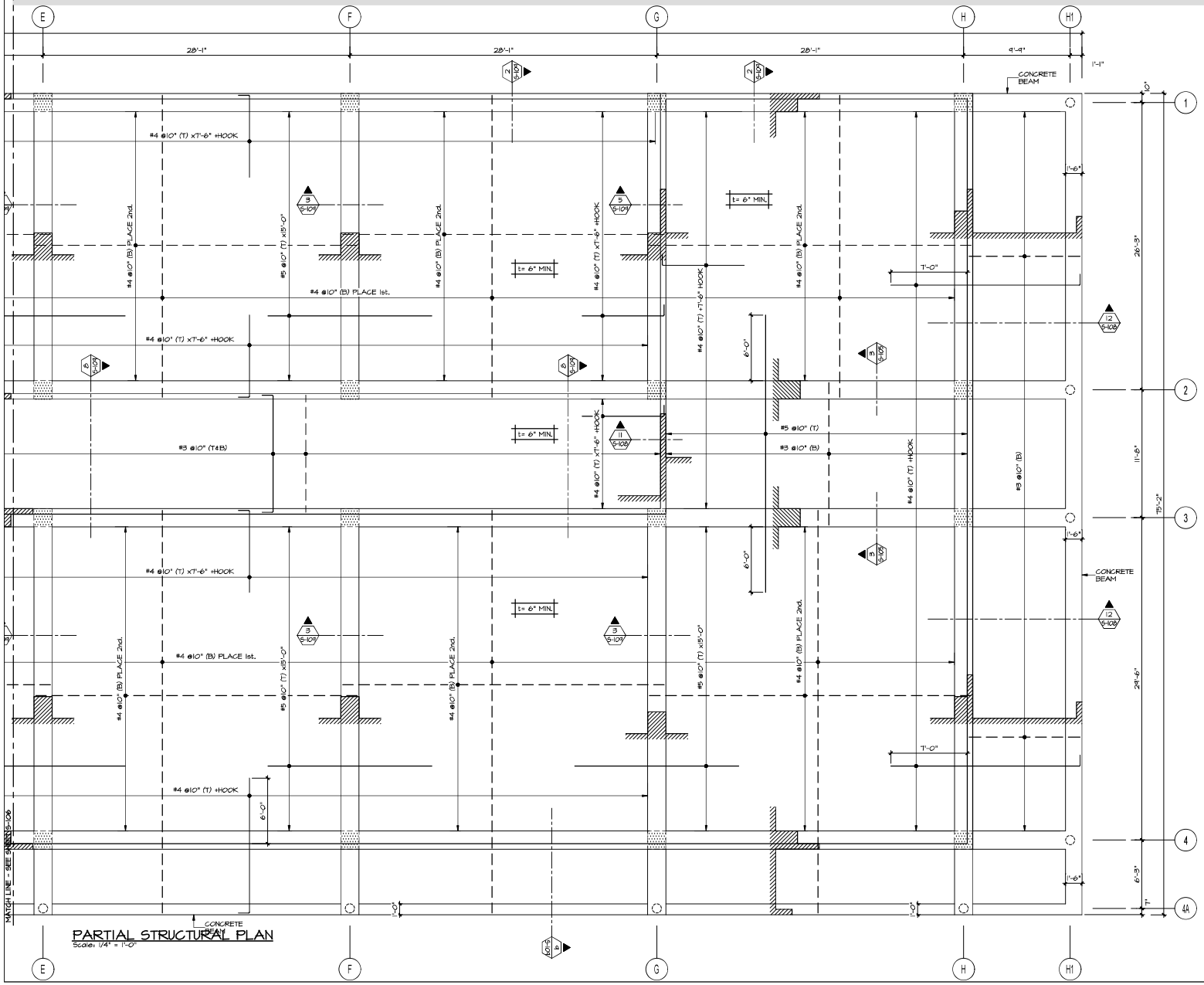
ANIBAL SALGADO DIAZ, MSCE, P.E.
STRUCTURAL ENGINEER
(PATRONO DEL PLANTEL)
DIRECCIÓN DE CASA VIEJA - RUE 205 KM - GUAYAMA P.R. 00784
(787) 396-5199
EMAIL: asdiaz@gmail.com

PROJECT: 23-07
DATE: 10-23-2023

DRAWING No.

S-106

PAGE: 001 52



PARTIAL STRUCTURAL PLAN

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

PROJECT ADDRESS
ELDERLY SERVICE CENTER
CALLE FERROCARRIL #11 BO.
PUEBLO, LAJAS, P.R. 00667

GPS LATITUDE/LONGITUDE:
18.04941608, -67.05761236

OWNER
LAJAS MUNICIPALITY

REGISTER No.
358-032-072-01

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D

IMPORTANT NOTES TO THE CONTRACTOR:
CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE PROCEEDING WITH WORK. IF ANY DISCREPANCIES, ERRORS OR OMISSIONS SHOULD BE ENCOUNTERED ON PLANS, CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO ANY PART OF THE WORK IS STARTED SO THAT PROPER CORRECTIONS ARE MADE. IF ENGINEER IS NOT NOTIFIED PRIOR TO COMMENCING OF THE WORK, ALL DESIGNS AND DRAWINGS HEREIN AND PRINTS ISSUED BY THE ENGINEER ARE THE PROPERTY OF THE ENGINEER AND SHALL NOT BE REUSED ON ANY OTHER LOCATION EXCEPT THE ONE FOR WHICH THEY EXPRESSLY DESIGNED. IF THESE DRAWINGS OR ANY PART THEREOF IS REPRODUCED WITHOUT THE CONSENT OF THE ENGINEER, THE PERSON WHO IS DOING WILL BE INDEBTED TO THE ENGINEER FOR HIS FULL COMMISSION. CONTRACTOR SHALL NOT USE FOR CONSTRUCTION PURPOSES ANY DRAWINGS THAT WERE ADVANCE TO HIM PRIOR TO THE BEGINNING OF CONSTRUCTION. ALL PLANS WITH SEAL BY CONTRACTOR SHOULD HAVE A "RELEASED FOR CONSTRUCTION ONLY" STAMPED AND SIGNED BY THE ENGINEER.

CERTIFICATION
I, WILLIAM MELENDEZ RIVAS, LIC. 16383, CERTIFY THAT I AM THE PROFESSIONAL WHO [MADE, DESIGNED OR PREPARED] THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PROJECT DESIGNED HEREIN AND IN THE CORRESPONDING PLANS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 14-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY" AND WITH THE [LAW NO. 319 OF MAY 15, 1938, AS AMENDED; ACT NO. 68 OF JULY 6, 1978, AS AMENDED; AS APPLICABLE]. I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY IGNORANCE OR NEGLIGENCE EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE OGPE.

654 Ave. Muñoz Rivera – Suite 1808
804 Plaza, San Juan, PR 00918
Tel. (787) 919-5262 / 5264
Email: bim@ingenium.group

SIGNATURE

ANIBAL SALGADO DIAZ
INGENIERO LICENSED
E-29435
PUERTO RICO

FILE
Dwg Name: INGENIUM GROUP
Drawn by: K.Y.P.
Revised by: A.S.D.
Plot Scale: AS SHOWN
Progress Print:

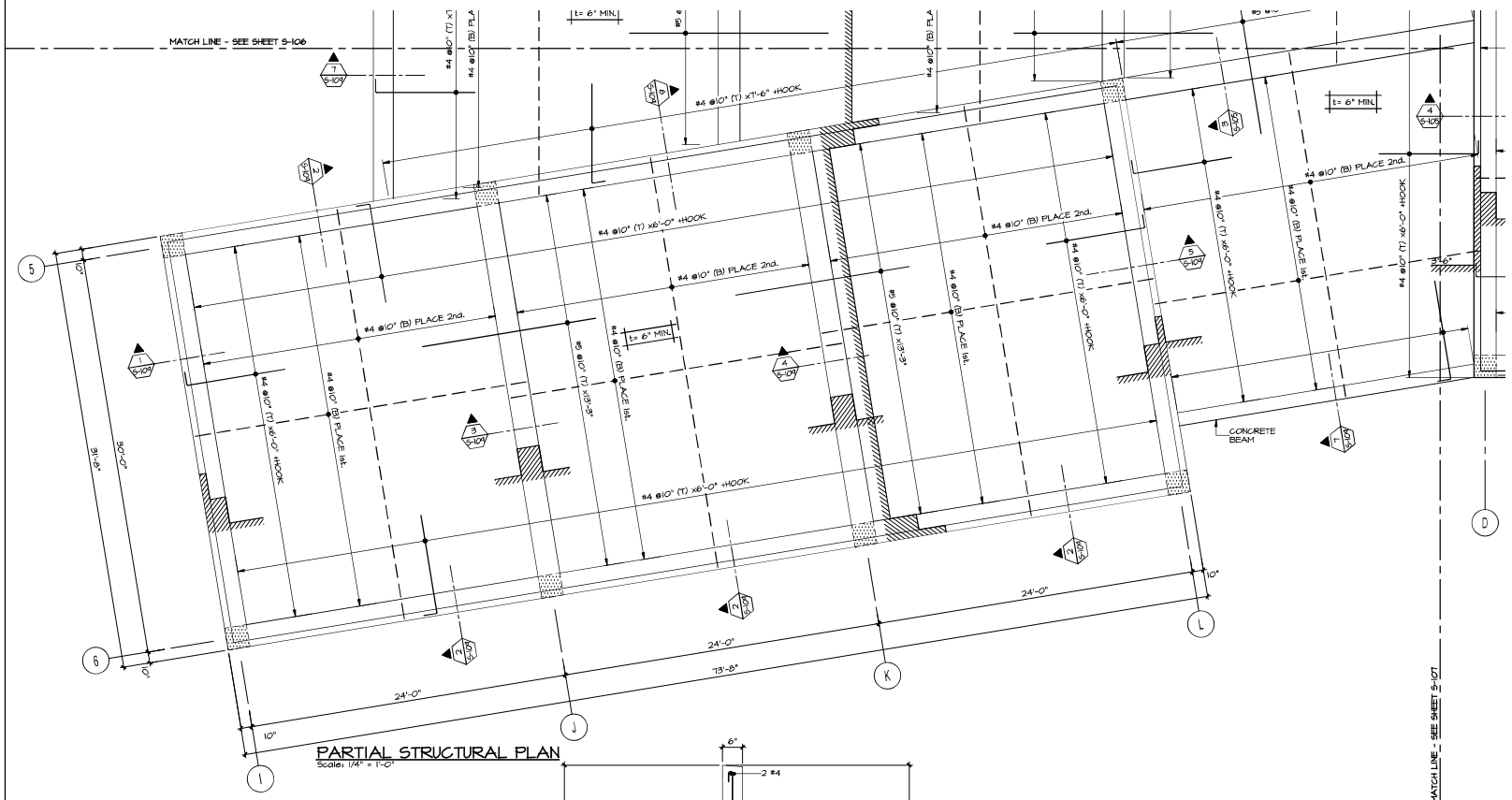
TITLE
PARTIAL STRUCTURAL PLAN & KEY PLAN

ANIBAL SALGADO DIAZ, MSCE, P.E.
STRUCTURAL ENGINEER
OFICINA: CALLE JUAN, ESQ. CARIBE, RÍO PIEDRAS P.R.
(BARRIO OBRERO, PUEBLO)
TELEFONO DE CASA: 787-... - MOVIL: 787-...
EMAIL: ...@gmail.com
PROYECTO: 23-07

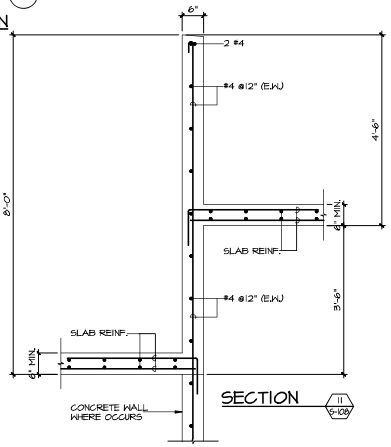
DATE: 10-23-2023

DRAWING No.
S-108

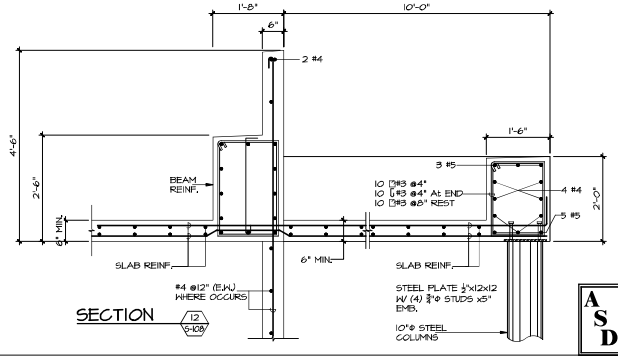
PAGE: 001 52



PARTIAL STRUCTURAL PLAN
Scale: 1/4" = 1'-0"



SECTION 11 S-108



SECTION 12 S-108

PROJECT ADDRESS
ELDERLY SERVICE CENTER
CALLE FERROCARRIL #11 BO.
PUEBLO, LAJAS, P.R. 00667

GPS LATITUDE/LONGITUDE:
18.04941608, -67.05761236

OWNER
LAJAS MUNICIPALITY

REGISTER No.
358-032-072-01

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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IMPORTANT NOTES TO THE CONTRACTOR:

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE PROCEEDING WITH WORK. IF ANY DISCREPANCIES, ERRORS OR OMISSIONS SHOULD BE ENCOUNTERED ON PLANS, CONTRACTOR SHALL NOTIFY THE ENGINEER BEFORE ANY PART OF THE WORK IS STARTED SO THAT PROPER CORRECTIONS ARE MADE. IF ENGINEER IS NOT NOTIFIED PRIOR TO COMMENCING OF THE WORK, ALL DESIGNS AND DRAWINGS HEREIN AND PRINTS ISSUED BY THE ENGINEER ARE THE PROPERTY OF THE ENGINEER AND SHALL NOT BE REUSED ON ANY OTHER LOCATION EXCEPT THE ONE FOR WHICH THEY EXPRESSLY DESIGNED. IF THESE DRAWINGS OR ANY PART THEREOF IS REPRODUCED WITHOUT THE CONSENT OF THE ENGINEER, THE PERSON WHO IS DOING WILL BE INDEBTED TO THE ENGINEER FOR HIS FULL COMMISSION. CONTRACTOR SHALL NOT USE FOR CONSTRUCTION PURPOSES ANY DRAWINGS THAT WERE ADVANCE TO HIM PRIOR TO THE BEGINNING OF CONSTRUCTION. ALL PLANS BEING USED BY CONTRACTOR SHOULD HAVE A LABEL SAYING "FOR CONSTRUCTION ONLY" SIGNED AND SEALED BY THE ENGINEER.

CERTIFICATION

I, WILLIAM MELENDEZ RIVAS, LIC. 16383, CERTIFY THAT I AM THE PROFESSIONAL WHO [MADE, DESIGNED OR PREPARED] THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 14-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY" AND WITH THE [LAW NO. 319 OF MAY 15, 1938, AS AMENDED; ACT NO. 96 OF JULY 6, 1978, AS AMENDED; AS APPLICABLE]. I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY IGNORANCE OR NEGLIGENCE EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE OGPE.

654 Ave. Muñoz Rivera - Suite 1838
654 Plaza, San Juan, PR 00728
Tel. (787) 918-5880 / 5881
Email: info@ingenium.group

SIGNATURE

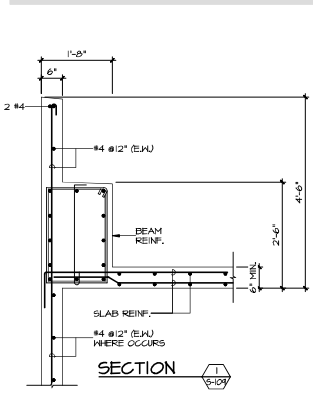
ANIBAL SALGADO DIAZ
INGENIERO LICENCIADO
LIC.#8435
PUERTO RICO

FILE
Dwg Name: INGENIUM GROUP
Drawn by: K.Y.P.
Revised by: A.S.D.
Plot Scale: AS SHOWN
Progress Print:

TITLE
PROPOSED GROUND FLOOR PLAN_BLDG 01 02 & 03

ANIBAL SALGADO DIAZ, MSCE, P.E.
STRUCTURAL ENGINEER
GOVERN CATALUÑA #1001, URB. CAMINO, RIO PIEDRAS P.R.
(SUCURSAL DEL PARTIDO)
ESTACION DE GRAN VISTA - SAN LUIS 60 - CAYUGA P.R. 00975
NOTE: 301-4200
EMAIL : anibalsalgado@gmail.com
PROJECT: 23-87
DATE: 10-23-2023

DRAWING No.
S-108
PAGE: 001 52



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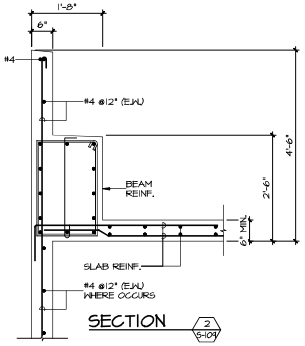

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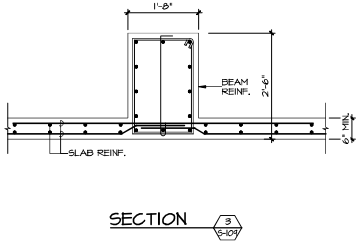

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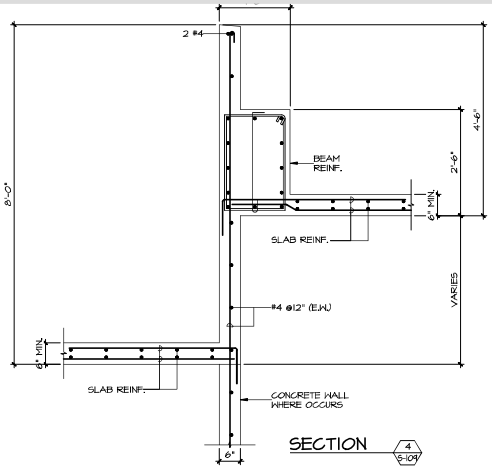

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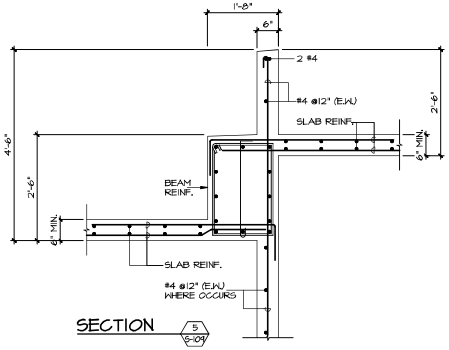
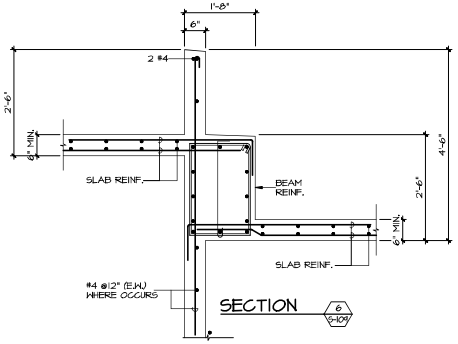
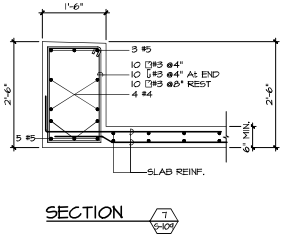


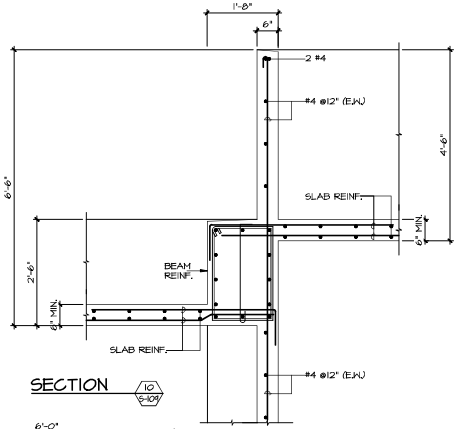
SECTION 5 S-109



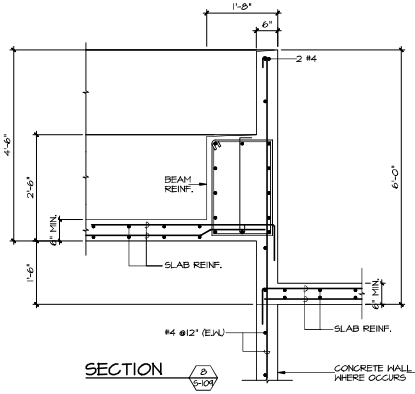
SECTION 6 S-109



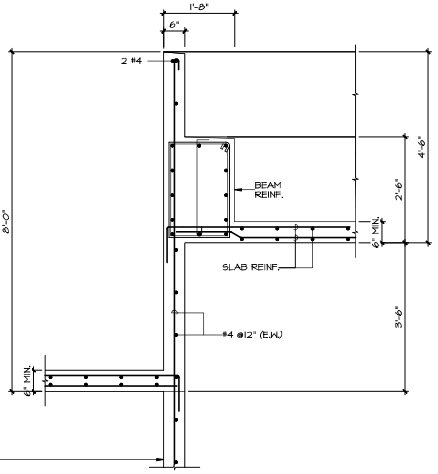
SECTION 7 S-109

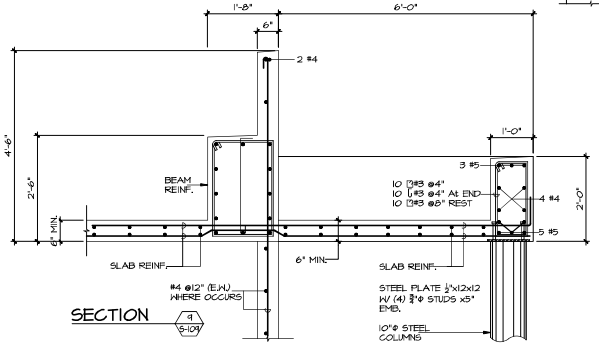


SECTION 10 S-109



SECTION 8 S-109





SECTION 9 S-109

ANIBAL SALGADO DIAZ, MSCE, P.E.
STRUCTURAL ENGINEER
URB. CAGUAS REAL, CALLE CLAVEL #29 CAGUAS P.R. 00725
(MOVIL 24 HRS. PUERTO RICO)
OFICINA EN CABO ROJO - SAN JOSE #8 - CATEDRAL P.R. 00795
TEL: 396-2539
EMAIL: asdiaz@gmail.com
PROJECT: 22-87
DATE: 10-23-2022

PROJECT ADDRESS
ELDERLY SERVICE CENTER
CALLE FERROCARRIL #11 BO. PUEBLO, LAJAS, P.R. 00667

GPS LATITUDE/LONGITUDE: 18.04941608, -67.05761236

OWNER
LAJAS MUNICIPALITY

REGISTER No.
358-032-072-01

REVISIONS

REV.	DATE	DESCRIPTION	BY CHK'D
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IMPORTANT NOTES TO THE CONTRACTOR:
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CERTIFICATION
I, WILLIAM MELENDEZ RIVAS, LIC. 16383, CERTIFY THAT I AM THE PROFESSIONAL WHO [MADE, DESIGNED OR PREPARED] THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PROJECT DESIGN THEREIN AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 14-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY" AND WITH THE [LAW NO. 319 OF MAY 15, 1938, AS AMENDED; ACT NO. 66 OF JULY 6, 1978, AS AMENDED; AS APPLICABLE]. I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY IGNORANCE OR NEGLIGENCE EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE OGPE.

604 Ave. Muñoz Rivera – Suite 1808
604 Plaza, San Juan, PR 00918
Tel. (787) 216-5262 / 5264
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SIGNATURE

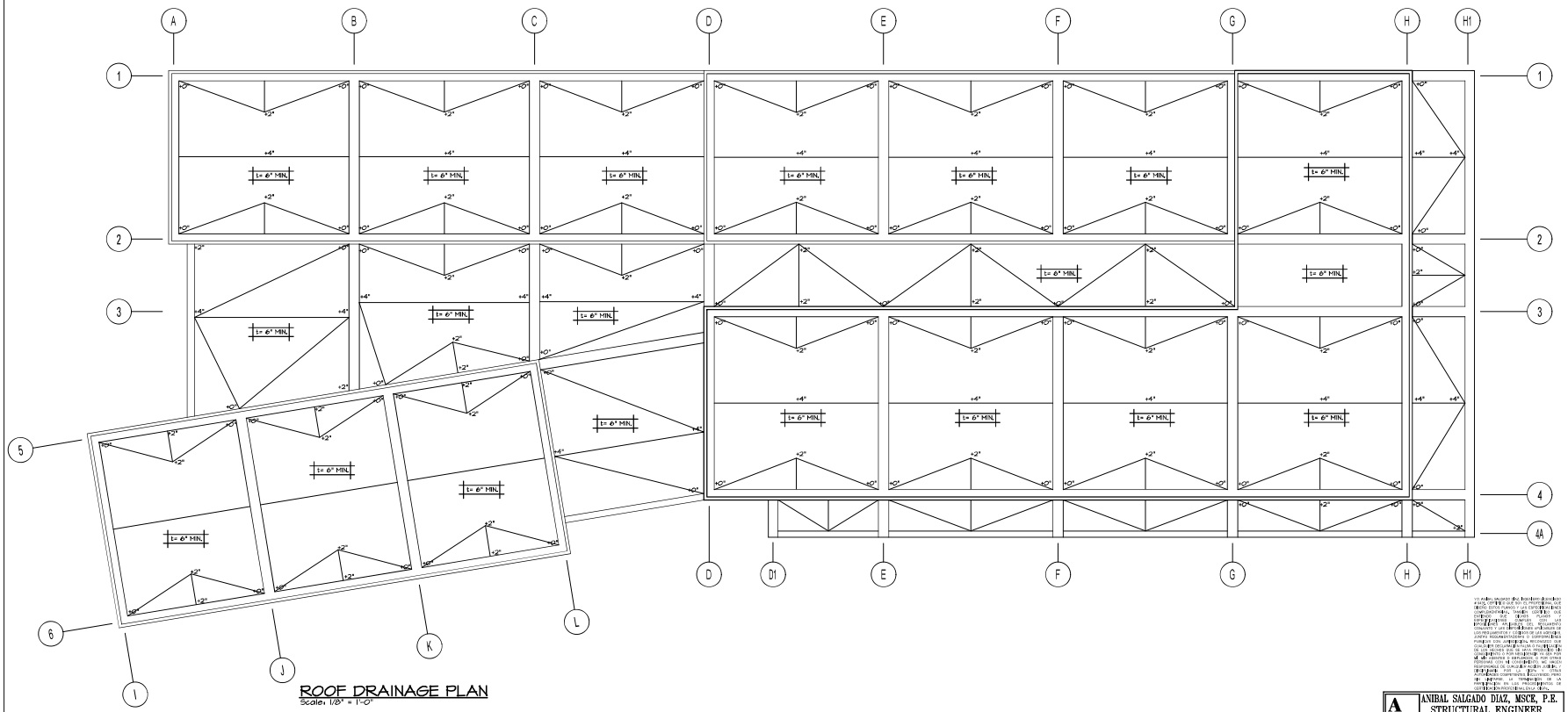
ANIBAL SALGADO DIAZ INGENIERO LICENSED PUERTO RICO E-29435

FILE
Dwg Name: INGENIUM GROUP
Drawn by: K.Y.P.
Revised by: A.S.D.
Plot Scale: AS SHOWN
Progress Print:

TITLE
SECTIONS

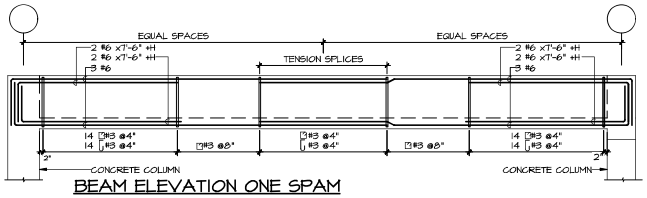
DRAWING No.
S-109

PAGE: 001 52



ROOF DRAINAGE PLAN

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



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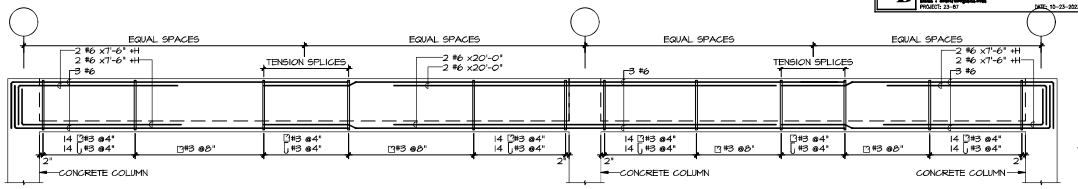

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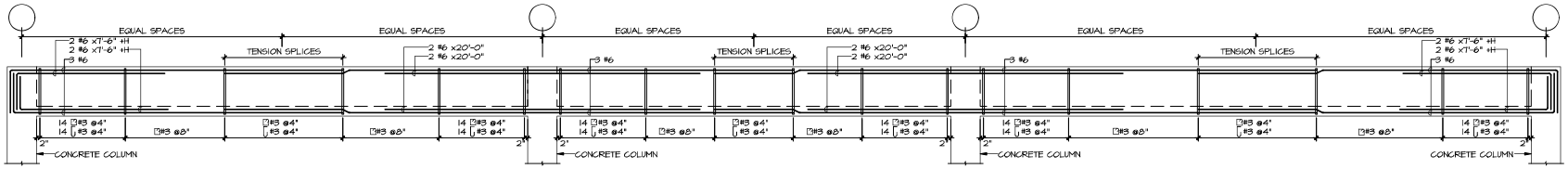

BEAM ELEVATION THREE OR MORE SPAM

PROJECT ADDRESS
ELDERLY SERVICE CENTER
CALLE FERROCARRIL #1 BO.
PUEBLO, LAJAS, P.R. 00667

GPS LATITUDE/LONGITUDE:
18.04941608, -67.05761236

OWNER
LAJAS MUNICIPALITY

REGISTER No.
358-032-072-01

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D

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DECLARATION

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ASD
ANIBAL SALGADO DIAZ, MSCE, P.E.
STRUCTURAL ENGINEER
DATE: 10-23-2025

654 Ave. Walter Marra - Suite 1828
Mira Plaza, San Juan, PR 00727
Tel. (787) 316-5262 / 5264
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SIGNATURE

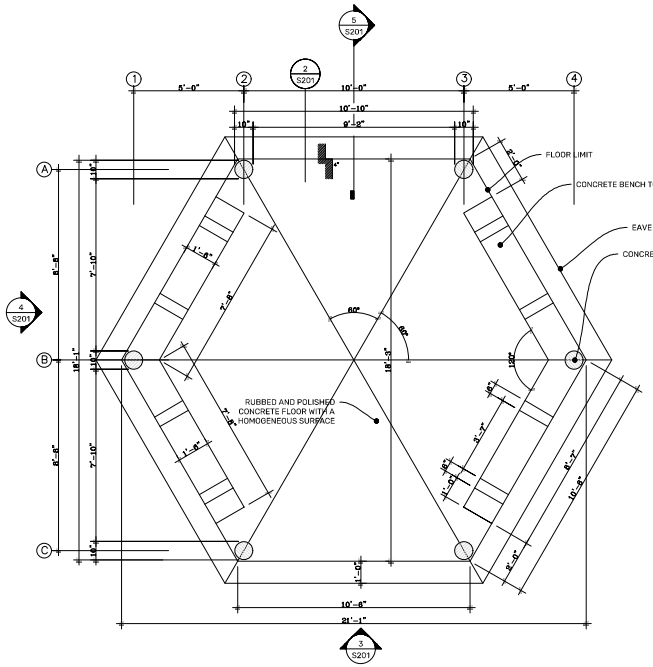
ANIBAL SALGADO DIAZ
INGENIERO
LICENSE
E-29435
PUERTO RICO

FILE
Dwg Name: INGENIUM GROUP
Drawn by: K.Y.P.
Revised by: A.S.D.
Plot Scale: AS SHOWN
Progress Print:

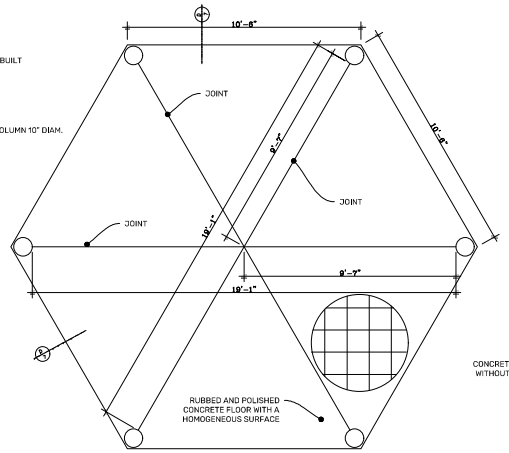
TITLE
ROOF DRAINAGE PLAN & BEAM ELEVATION

DRAWING No.
S-110

PAGE: 001 52



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



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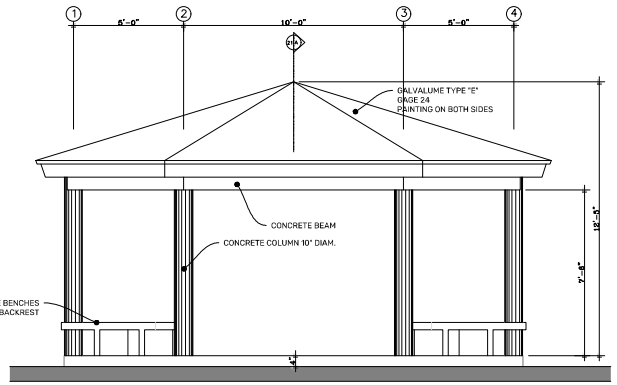

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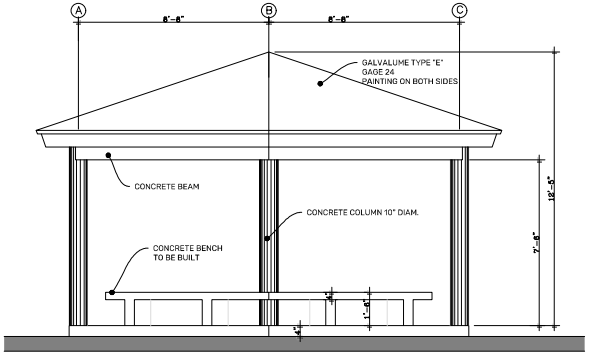

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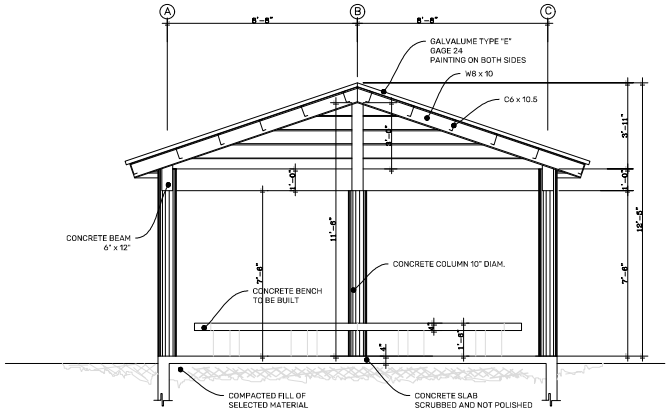

5 SECTION 1
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PROJECT ADDRESS
ELDERLY SERVICE CENTER
CALLE FERROCARRIL #11 BO. PUEBLO,
LAJAS, P.R. 00667

GPS LATITUDE/LONGITUDE:
18.04941608, -67.05761236

OWNER
LAJAS MUNICIPALITY

REGISTER No.
3 5 8 - 0 3 2 - 0 7 2 - 0 1

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
--	--	--	--	--

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CERTIFICATION

I, WILLIAM MELENDEZ RIVAS, LIC. 16365, CERTIFY THAT I AM THE PROFESSIONAL WHO [MADE, DESIGNED OR PREPARED] THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES REGULATORY BOARDS OF PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 14-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY" AND WITH THE [LAW NO. 319 OF MAY 15, 1938, AS AMENDED; ACT NO. 96 OF JULY 6, 1976, AS AMENDED AS APPLICABLE]. I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PROVIDED BY IGNORANCE OR NEGLIGENCE EITHER BY ME, MY AGENTS, OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE OGPE.

INGENIUM PROFESSIONAL GROUP
654 Ave. Muñoz Rivera - Suite 1608
654 Plaza, San Juan, PR 00918
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Email: info@ingenium.group

SIGNATURE

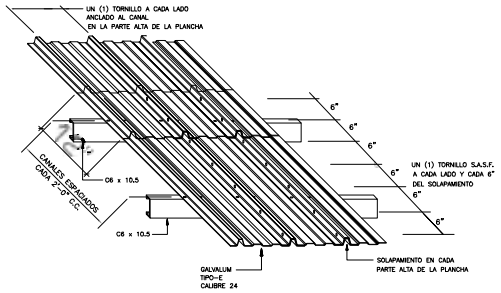
William Melendez Rivas, Ingeniero, Licenciado, Lic. 16365, Puerto Rico

FILE

Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
STRUCTURAL GAZEBO

DRAWING No.
S201



CEILING PANEL ARRANGEMENT
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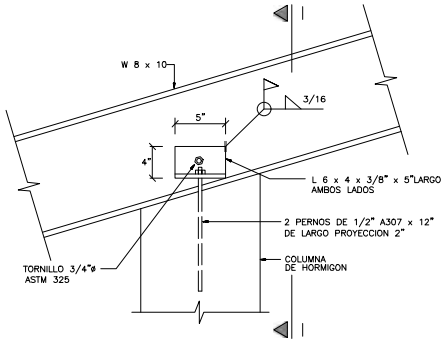

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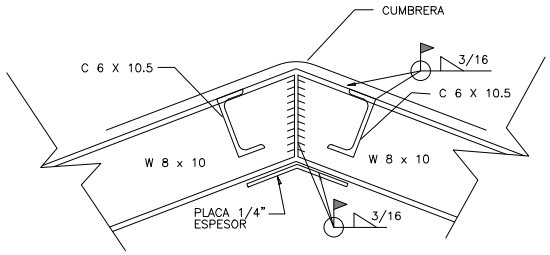

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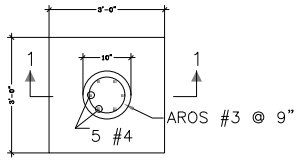

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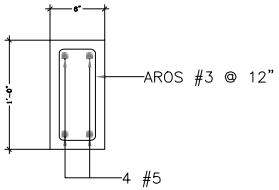

DETAIL "A" [BEAM]
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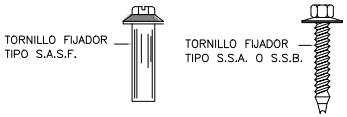

DETAIL SCREWS
ROOF FASTENERS
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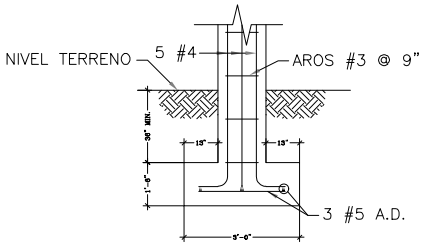

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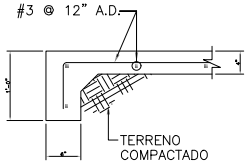

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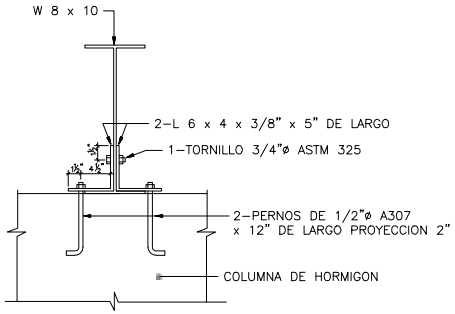

SECTION I-I
SCALE: NOT TO SCALE

NOTAS GENERALES

NOTAS PARA HORMIGON:

1- TODA MEZCLA DE HORMIGON SERA DISEÑADA PARA RESISTIR UNA FUERZA MINIMA EN COMPRESION DE 3,000 LBS POR PULGADA CUADRADA AL TERMINO DE 28 DIAS.
2- EL REFUERZO SERAN VARILLAS DE ACERO DEFORMADAS A TONO CON LA EDICION MAS RECIENTE DEL A.S.T.M. (ASOCIACION AMERICANA DE PRUEBA DE MATERIALES), DESIGNACION A-615, GRADO 60.
3- LAS VARILLAS DE REFUERZO SERAN EMPALMADAS POR MEDIO DE SOLDADURAS O AMARRES SOLAPADOS. LOS EMPALMES SOLAPADOS QUE NO REQUIERAN SOLDADURA, SERAN DE UNA LONGITUD MINIMA EQUIVALENTE A 30 VECES EL DIAMETRO DE LA VARILLA, EXCEPTO CUANDO SE ESPECIFIQUE OTRA COSA.
4- TODA VARILLA DE REFUERZO EMPALMADA CON AMARRES SOLAPADOS SERA COLOCADA A TRESBOLILLOS. AMARRES SOLAPADOS QUE NO SE ESPECIFIQUEN EN LOS PLANOS DE DISEÑO SERAN DE CLASE B, A TRESBOLILLOS, CON EMPALMES DE TENSION, COMO SE ESTIPULA EN EL CODIGO DEL ACI MAS RECIENTE.
5- LA CUBIERTA DE PROTECCION NETA MINIMA DE HORMIGON CON RESPECTO AL REFUERZO DE ACERO, SERA COMO SIGUE:
   A) HORMIGON VACIADO DIRECTAMENTE AL TERRENO _____ 3 pulg. (7.62 cm.)
   B) HORMIGON EXPUESTO A CONDICIONES CLIMATOLOGICAS _____ 2 pulg. (5.08 cm.)
   C) HORMIGON EXPUESTO AL TERRENO, DESPUES DE REMOVER LAS FORMALETAS _____ 2 pulg. (5.08 cm.)
   D) LOSAS Y PAREDES EXPUESTAS A CONDICIONES CLIMATOLOGICAS _____ 1-1/2 pulg. (3.81 cm.)
   E) LOSAS Y PAREDES NO EXPUESTAS AL TERRENO O CONDICIONES CLIMATOLOGICAS _____ 3/4 pulg. (1.905 cm.)
6- DETALLES Y CONSTRUCCION (INCLUYENDO CURADO Y REMOCION DE MOLDES), CUMPLIRAN CON LOS REQUISITOS MAS RECIENTES DE LAS SIGUIENTES PUBLICACIONES:
   A) MANUAL DE LA PRACTICA TIPICA PARA DETALLES DE ESTRUCTURAS DE HORMIGON (ACI-315).
   B) REQUISITOS PARA HORMIGON REFORZADO DE ACUERDO AL CODIGO DE EDIFICACION (ACI-318).
   C) ESPECIFICACIONES PARA HORMIGON ESTRUCTURAL EN EDIFICACIONES (ACI-301)
7- TODA ESQUINA, ARISTA O BORDE EXPUESTO, DE HORMIGON TENDRA UNA TERMINACION DESCANTILLADA DE 3/4 pulg. (1.905 cm.).

NOTAS PARA PREPARACION DEL TERRENO

1- ES MANDATARIO Y NECESARIO TENER ESTRICTO CUIDADO Y PRECAUCION DURANTE LOS TRABAJOS DE EXCAVACION, DEBIDO A LA POSIBILIDAD DE QUE EXISTAN CONDUCTOS ELECTRICOS, TUBERIAS, CABLES DE TIERRA AL DESCUBIERTO, ETC., EXPUESTOS O SOTERRADOS, AUNQUE NO ESTEN ADVERTIDOS EN LOS PLANOS.
2- LAS ELEVACIONES INDICADAS EN LOS PLANOS SERAN VERIFICADAS EN SITIO POR EL CONTRATISTA, PREVIO AL COMIENZO DE LA CONSTRUCCION. LAS DIMENSIONES Y ELEVACIONES ORIGINALES PUEDEN SER ALTERADAS PARA AJUSTARSE A LAS CONDICIONES PREVALECIENTES EN EL SITIO CON EL CONSENTIMIENTO DEL INGENIERO A CARGO DEL PROYECTO.
3- TODO MOVIMIENTO DE TIERRA QUE SE EFECTUE EN EL ACONDICIONAMIENTO DEL TERRENO Y SU COMPACTACION SE REALIZARA CONFORME A LAS RECOMENDACIONES DEL ESTUDIO DE SUELO.
4- EL MATERIAL QUE SE UTILICE PARA RELLENO, SERA DE TIPO GRANULAR, ADECUADO, SELECTO Y CONTINUAMENTE COMPACTADO EN CAMADAS QUE NO EXCEDAN 6 pulg. (15.24 cm.) DE ESPESOR Y NO MENOR QUE EL 95% DE DENSIDAD MAXIMA (METODO PROCTOR MODIFICADO) (A.S.T.M. D-1557).
5- EL CONTRATISTA RETENDRA LOS SERVICIOS DE UN INGENIERO GEOTECNICO Y SEGUIRA SUS RECOMENDACIONES PARA LA CONSTRUCCION DE LOS CIMIENTOS Y LAS Llosas DE PISO.

NOTA:

ESTE DISEÑO ESTA BASADO UTILIZANDO LAS SIGUIENTES CARGAS
CARGA VIVA DE PISO = 40 LBS/P.C.
CARGA VIVA DE TECHO = 20 LBS/P.C.
RESISTENCIA ULTIMA DEL TERRENO = 2,500 LBS./P.C.

PROJECT ADDRESS
ELDERLY SERVICE CENTER
CALLE FERROCARRIL #11 BO. PUEBLO,
LAJAS, P.R. 00667

GPS LATITUDE/LONGITUDE:
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OWNER
LAJAS MUNICIPALITY

REGISTER No.
358-032-072-01

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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654 Ave. Muñoz Rivera • Suite 1000
664 Plaza, San Juan, PR 00918
Tel. (787) 918-5890 / 5891
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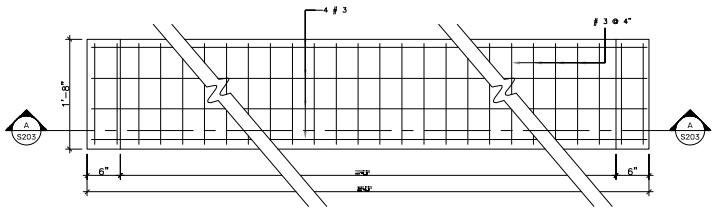
SIGNATURE
William Melendez Rivas
Ingeniero
Lic. 16383
Puerto Rico

FILE
Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

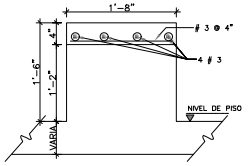
TITLE
STRUCTURAL
GAZEBO_DETAILS

DRAWING No.
S202

C O N C R E T E _ B E N C H _ G A Z E B O



1 STRUCTURAL BENCH_PLAN VIEW
SCALE: NOT TO SCALE



SECTION 1
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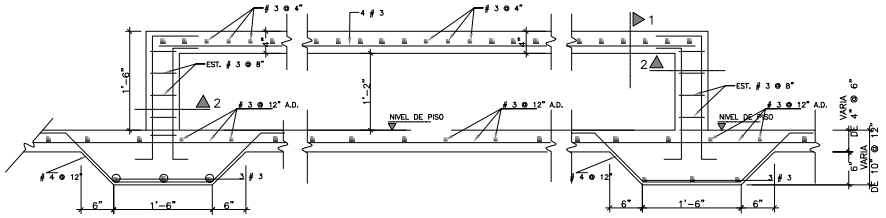
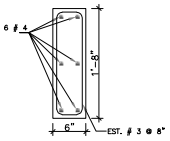


A SECTION DETAIL
SCALE: NOT TO SCALE



SECTION 2
SCALE: NOT TO SCALE

GAZEBO BENCH DETAIL
SCALE: NOT TO SCALE

PROJECT ADDRESS
ELDERLY SERVICE CENTER
CALLE FERROCARRIL #11 BO. PUEBLO,
LAJAS, P.R. 00667

GPS LATITUDE/LONGITUDE:
18.04941608, -67.05761236

OWNER
LAJAS MUNICIPALITY

REGISTER No.
358-032-072-01

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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IMPORTANT NOTES TO THE CONTRACTOR:
CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE PROCEEDING WITH WORK. IF ANY DISCREPANCIES, ERRORS OR OMISSIONS SHOULD BE ENCOUNTERED ON PLANS, CONTRACTOR SHALL NOTIFY THE ENGINEER BEFORE ANY PART OF THE WORK IS STARTED SO THAT PROPER CORRECTIONS ARE MADE. IF ENGINEER IS NOT NOTIFIED PRIOR TO COMMENCING OF THE WORK, ALL DESIGNS AND DRAWINGS HEREIN AND PRINTS ISSUED BY THE ENGINEER ARE THE PROPERTY OF THE ENGINEER AND SHALL NOT BE REUSED ON ANY OTHER LOCATION EXCEPT THE ONE FOR WHICH THEY EXPRESSLY DESIGNED. IF THESE DRAWINGS OR ANY PART THEREOF IS REPRODUCED WITHOUT THE CONSENT OF THE ENGINEER, THE PERSON WHO IS DOING WILL BE SUBJECTED TO THE ENGINEER FOR HIS FULL COMMISSION. CONTRACTOR SHALL NOT USE FOR CONSTRUCTION PURPOSES ANY DRAWINGS THAT WERE ADVANCE TO HIM PRIOR TO THE BEGINNING OF CONSTRUCTION. ALL PLANS BEING USED BY CONTRACTOR SHOULD HAVE A LABEL SAYING "FOR CONSTRUCTION ONLY" SIGNED AND SEALED BY THE ENGINEER.

CERTIFICATION
I, WILLIAM MELENDEZ RIVAS, LIC. 16383, CERTIFY THAT I AM THE PROFESSIONAL WHO [MADE, DESIGNED OR PREPARED] THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE 2014T REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 14-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY" AND WITH THE [LAW NO. 319 OF MAY 15, 1938, AS AMENDED/ ACT NO. 96 OF JULY 6, 1978, AS AMENDED; AS APPLICABLE]. I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OR FACTS THAT HAS BEEN PRODUCED BY IGNORANCE OR NEGLIGENCE EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE OBPE.

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SIGNATURE

William Melendez Rivas
Ingeniero
Licenciado
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Puerto Rico

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Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
CONCRETE BENCH_GAZEBO

DRAWING No.
S203

PLUMBING GENERAL NOTES:

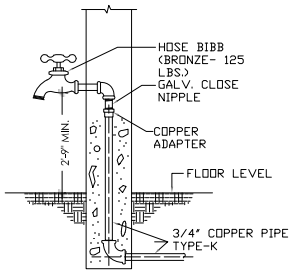
1. ALL PLUMBING WORK SHALL BE IN STRICT ACCORDANCE WITH THE DEPARTMENT OF HEALTH OF P.R., THE LOCAL BUILDING CODE, THE NATIONAL PLUMBING CODE (A.S.A. A 40 8-1955) AND THE SPECIFICATIONS ISSUED FOR THIS PROJECT.
2. CLEANOUTS SHALL BE OF THE SAME NOMINAL SIZE AS THE PIPE DIAMETER UP TO 4".
3. THE CONTRACTOR SHALL FURNISH AND SET IN PLACE BEFORE CONCRETE POURING ALL NECESSARY SLEEVES FOR WASTE OR SOIL, COLD WATER LINES. THESE SLEEVES SHALL BE AS PER THE SPECIFICATIONS.
4. THE PLUMBING CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF THE PIPING TO AVOID ANY INTERFERENCE WITH PIPING AND/OR EQUIPMENT BEING INSTALLED BY OTHER CONTRACTORS.
5. FOR FIXTURES AND/OR EQUIPMENT NOT LISTED IN THE SCHEDULE, SEE THE SPECIFICATIONS.
6. CLEANOUTS SHALL BE PLACED AS SHOWN ON DRAWINGS.
7. THE CONTRACTOR SHALL VERIFY IN FIELD ALL INVERT ELEVATIONS AND SHALL MAKE ANY NECESSARY ADJUSTMENT AS REQUIRED BY FIELD CONDITIONS AND AS REQUIRED, TO OBTAIN THE PROPER SLOPES.
8. IT IS THE INTENTION OF THE DRAWINGS TO CALL FOR FINISHED WORK, COMPLETE, TESTED AND READY FOR OPERATION. MINOR DETAILS NOT SHOWN OF SPECIFIED, BUT NECESSARY FOR THE PROPER INSTALLATION AND FOR FUNCTIONING AND OPERATION OF THE SYSTEM SHALL FROM PART OF THE WORK TO BE DONE BY THE CONTRACTOR.
9. BIDDERS SHALL VISIT THE SITE AND ACQUAINT THEMSELVES WITH THE CONDITIONS AS THEY ACTUALLY EXITS AND VERIFY DIMENSIONS, LOCATIONS AND DETAILS REQUIRED TO COMPLETE THE WORK. WHICH WILL BE THE ONLY OPPORTUNITY FOR POTENTIAL CONTRACTORS TO SEE THE SITE. FAILURE TO VISIT THE PROJECT AREA WILL IN NO WAY RELIEVE THE SUCCESSFUL BIDDER OF FURNISHING ALL MATERIAL AND PERFORMING ALL WORK REQUIRED FOR THE COMPLETION OF THE CONTRACT. VISITS TO THE PROJECT AREA SHALL BE ARRANGED THROUGH THE OWNER.
10. PROVIDE ACCESS FOR OPERATION AND MAINTENANCE TO EVERY PLUMBING VALVE. ACCESS SHALL BE AS REQUIRED BY ARCHITECT.
11. THE CONTRACTOR SHALL, WITHOUT EXTRA CHARGE, MAKE REASONABLE MODIFICATIONS IN THE LAYOUT, AS NEEDED, TO PREVENT CONFLICT WITH WORK OF OTHER TRADES OF FOR PROPER EXECUTION OF THE WORK.
12. CONTRACTOR SHALL LOCATE IN FULLY ACCESSIBLE POSITIONS ALL EQUIPMENT WHICH MUST BE SERVICED, OPERATED, OR MAINTAINED.
13. ALL UNDERGROUND COPPER PIPING SHALL BE TYPE "K", DIAMETER AS INDICATED.
14. ALL COPPER PIPING ABOVE FINISH FLOOR ELEVATION SHALL BE TYPE "L", DIAMETER AS INDICATED.
15. ALL WASTE, SANITARY AND STORM DRAINAGE LINES SHALL BE PVC SCH-40.
16. ALL PIPING SHALL BE CONCEALED IN FLOOR TOPPINGS, WALL OR CHASES UNLESS OTHERWISE NOTED.
17. LONG SWEEP BENDS OR LONG SWEEP FITTINGS SHALL BE PROVIDED AT THE BASE OF ALL STACKS.
18. CLEANOUTS SHALL NOT BE MORE THAN 100 FEET APART.
19. THE PLUMBING CONTRACTOR SHALL COORDINATE HIS/HER PORTION OF THE WORK WITH THE GENERAL CONTRACTOR AND SHALL PROVIDE SLEEVES AT SLABS OR BEAMS FOR PIPING LAYOUT AND FIXTURES INSTALLATION.
20. ALL FIXTURES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER SPECIFICATIONS.
21. SIZES SHOWN IN FIXTURES SCHEDULE ARE MINIMUM AND SHALL BE INCREASED AS NECESSARY TO COMPLY WITH CODE REQUIREMENTS OR AS SHOWN ON DRAWINGS.
22. SINGLE AND DOUBLE TEES AND QUARTER BENDS SHALL BE USED IN LINES ONLY WHERE THE DIRECTION OF FLOW IS FROM THE HORIZONTAL TO THE VERTICAL.
23. ALL HORIZONTAL PORTIONS OF SOIL STACKS AND BRANCHES SHALL HAVE MINIMUM SLOPE OF 1/4" PER FOOT FOR PIPES 3" DIAMETER OR LESS. 1/8" PER FOOT FOR PIPES 4" OR LARGER IN DIAMETER.
24. THE PLUMBING CONTRACTOR SHALL COORDINATE HIS/HER WORK IN ORDER TO AVOID ANY INTERFERENCE WITH THE WORK OF OTHER CONTRACTORS AND THE INSTALLATION OF FIXTURES AND OR EQUIPMENT BY OTHERS.
25. GATE VALVES LOCATED UNDERGROUND OR BELOW FLOOR SLABS SHALL BE INSTALLED WITHIN A CAST IRON OR CONCRETE BOX WITH 9 X 9 J.R. SMITH ACCESS COVER FIG. 4915-U.
26. PLUMBING CONTRACTOR SHALL PROVIDE ALL NECESSARY SERVICES AND/OR CONNECTIONS REQUIRED FOR THE PLUMBING FIXTURES AND/OR EQUIPMENT SHOWN ON THE FIXTURES PLANS.
27. PLUMBING CONTRACTOR SHALL PROVIDE ALL NECESSARY ROUGHING-IN AND SHALL INSTALL THE PLUMBING FIXTURES INDICATED ON THESE DRAWINGS.
28. WHENEVER REQUIRED OR NEEDED, THE PLUMBING CONTRACTOR SHALL PREPARE AND SUBMIT THE NECESSARY SHOP DRAWINGS FOR THE APPROVAL OF THE ARCHITECT.
29. 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 FOR REVISION AND/OR CLARIFICATION.
30. FIXTURES, FITTINGS, ACCESSORIES, MATERIAL AND ALL PLUMBING PRODUCTS SHALL BE AS PER SPECIFICATIONS ON THESE DRAWINGS AND CONTRACT SPECIFICATIONS. EQUAL OR SIMILAR SHALL BE ONLY ACCEPTED IF PREVIOUSLY APPROVED BY THE ARCHITECT.

GENERAL PLUMBING NOTES & SYMBOLS

SCALE: NOT TO SCALE

PIPES SPECIFICATIONS:

LOCATION	PIPES	SPECIFICATION
LOW EARTH WATER TUBING	FLEXIBLE COPPER TIP. "K" COLD STRETCHED	ASTM B-88
WATER TUBING ON EARTH OR EXPOSED	FLEXIBLE COOPER TIPO "L" COLD STRETCHED	ASTM B-88
SANITARY PIPE OUTSIDE THE BUILDING	P.V.C. SCHEDULE 40	ASTM D- 2665
SANITARY PIPE INSIDE THE BUILDING	P.V.C. SCHEDULE 40	ASTM D- 2665
VENTILATION PIPING	P.V.C. SCHEDULE 40	ASTM D- 2665



PLUMBING NOTES:

1. FOR FIXTURE SPECS. CONTRACTOR SHALL COORDINATE WITH THE OWNER.
2. COLD WATER PIPING SHALL BE 3/4" COPPER TYPE "L".
3. COLD WATER PIPING WITHIN STRUCTURE ABOVE GROUND, SHALL BE COPPER TYPE "L" RIGID.
4. ALL VENT LINES WITHIN THE STRUCTURE, SHALL BE P.V.C. SCHEDULE 40. EXCEPT OTHERWISE INDICATED.
5. ALL PIPING SHALL BE CONCEALED IN FLOOR TOPING, SLABS, WALLS OR CHASES UNLESS OTHERWISE INDICATED.
6. LONG SWEEP BENDS OR LONG SWEEP FITTINGS SHALL BE PROVIDED AT THE BASE OF ALL STACKS.
7. CLEAN OUTS NOT MORE THAN 50'-0" APART SHALL BE PROVIDED ON ALL SANITARY LINES.
8. THE PLUMBING CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR FOR LEAVING SLEEVES AT SLABS OR BEAMS FOR PIPING LAYOUT AND FIXTURE INSTALLATIONS.
9. ALL FIXTURES SHALL BE INSTALLED IN ACCORDANCE TO THE MANUFACTURER'S SPECIFICATIONS.
10. THE PLUMBING WORK SHALL BE IN ACCORDANCE WITH THE LATEST LOCAL BUILDING CODE. THE NATIONAL PLUMBING CODE, THE P.R. HEALTH DEPARTMENT AND THE SPECIFICATIONS ISSUED FOR THIS PROJECT.
11. SIZES SHOWN IN FIXTURE SCHEDULE ARE MINIMUM AND SHALL BE INCREASED AS NECESSARY TO COMPLY WITH CODES REQUIREMENTS OR AS SHOWN IN DRAWINGS.
12. ALL VALVES NOT EXPOSED SHALL BE PROVIDED WITH ACCESS IN THE WALL OR FLOOR FOR OPERATION AND MAINTENANCE ACCESS DOOR, SHALL BE AS SPECIFIED OR REQUIRED BY THE ENGINEER.
13. SINGLE AND DOUBLE TEES AND QUARTER BENDS SHALL BE USED IN DRAINAGE LINES ONLY WHERE THE DIRECTION OF FLOW IS FROM THE HORIZONTAL TO THE VERTICAL.
14. THE PLUMBING CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF THE PIPING TO AVOID INTERFERENCE WITH PIPING AND/OR EQUIPMENT BEING INSTALLED BY THE GENERAL CONTRACTOR.

IMPORTANT NOTE:

- ANY SPECIFIED FIXTURES OR FURNITURE MUST BE EQUAL OR SIMILAR AND SHOULDN'T BE BRAND SPECIFIC. ANY SPECIFIED BRAND IS ONLY FOR CONTRACTOR'S CONVENIENCE AND SHOULDN'T BE INTERPRETED AS THE ONLY CHOICES. CONTRACTOR MUST SUBMIT SHOP DRAWINGS OF FIXTURES AND/OR FURNITURE TO BE USED.

PROJECT ADDRESS
ELDERLY SERVICE CENTER
CALLE FERROCARRIL #11 BO. PUEBLO,
LAJAS, P.R. 00667

GPS LATITUDE/LONGITUDE:
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OWNER
LAJAS MUNICIPALITY

REGISTER No.
358-032-072-01

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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CERTIFICATION

I, WILLIAM MELENDEZ RIVAS, LIC. 16,868, CERTIFY THAT I AM THE PROFESSIONAL WHO [MADE, DESIGNED OR PREPARED] THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 14-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY" AND WITH THE [LAW NO. 319 OF MAY 15, 1938, AS AMENDED; ACT NO. 96 OF JULY 6, 1979, AS AMENDED; AS APPLICABLE]. I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY IGNORANCE OR NEGLIGENCE EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION IN THE OOPC.

INGENIUM PROFESSIONAL GROUP
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654 Plaza, San Juan, PR 00738
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SIGNATURE

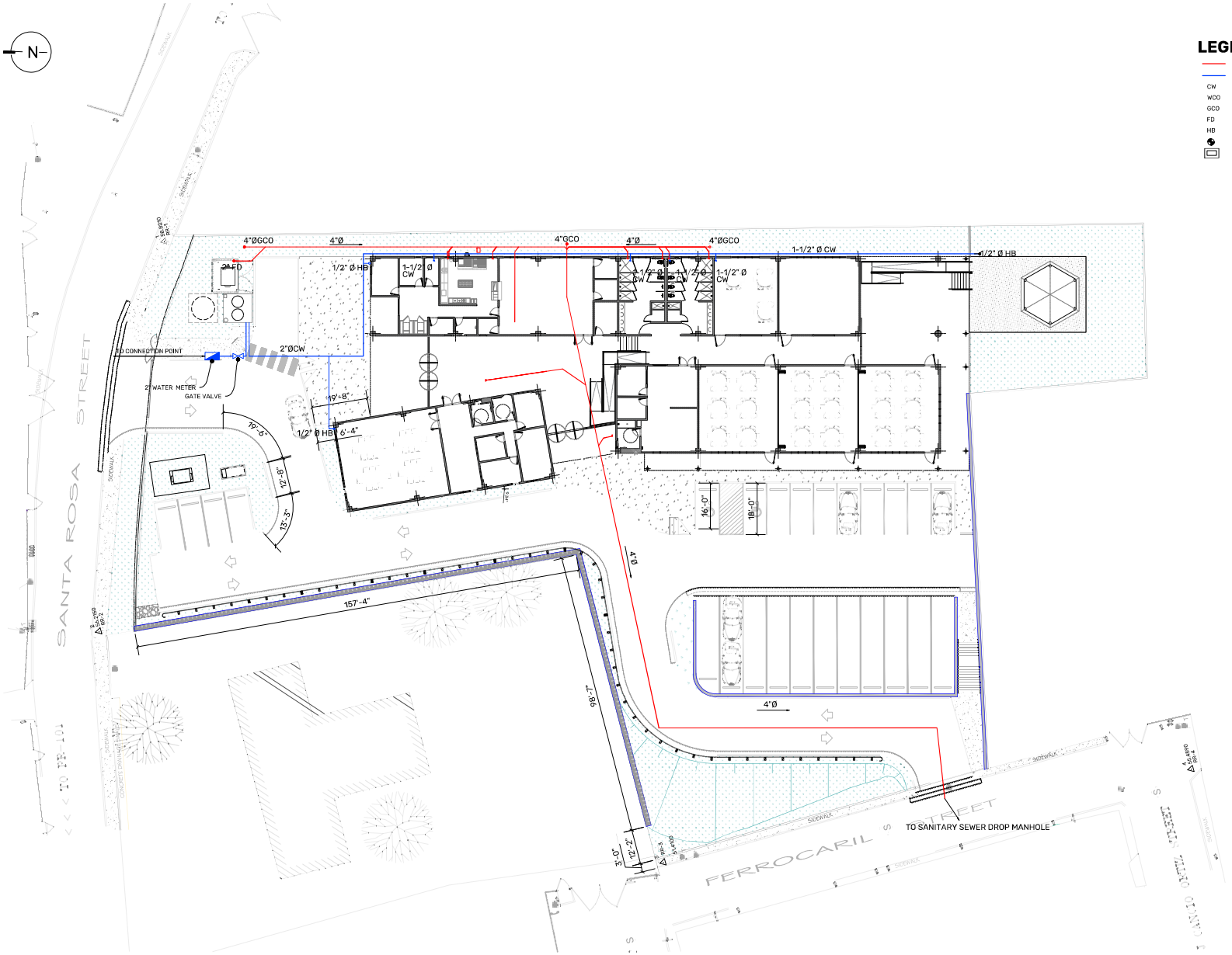
FILE

Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
GENERAL PLUMBING NOTES

DRAWING No.
P100

P R O P O S E D P L U M B I N G S I T E P L A N



LEGEND:

	SANITARY LINE
	COLD WATER LINE
CW	COLD WATER
WCO	WALL CLEAN OUT
GCO	GROUND CLEAN OUT
FD	FLOOR DRAIN
HB	HOSE BIBB
	GATE VALVE
	WATER METER

PLUMBING SITE PLAN

SCALE: 1/16" = 1'-0"

PROJECT ADDRESS

ELDERLY SERVICE CENTER
CALLE FERROCARRIL #11 BO. PUEBLO.
LAJAS, P.R. 00667

GPS LATITUDE/LONGITUDE:
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OWNER

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CERTIFICATION

I, WILLIAM MELENDEZ RIVAS, LIC. 16363, CERTIFY THAT I AM THE PROFESSIONAL WHO [MADE, DESIGNED OR PREPARED] THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 14-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY" AND WITH THE LAW NO. 319 OF MAY 15, 1938, AS AMENDED; ACT NO. 96 OF JULY 6, 1976, AS AMENDED; AS APPLICABLE. I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY KNOWANCE OR NEGLIGENCE EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE OGPE.

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SIGNATURE

William Melendez Rivas
Ingeniero Licenciado
Lic. 16363 P.R.
Puerto Rico

FILE

Dwg Name: INGENIUM GROUP

Drawn by: INGENIUM GROUP

Revised by: ING. WILLIAM MELENDEZ

Plot Scale: AS SHOWN

Progress Print:

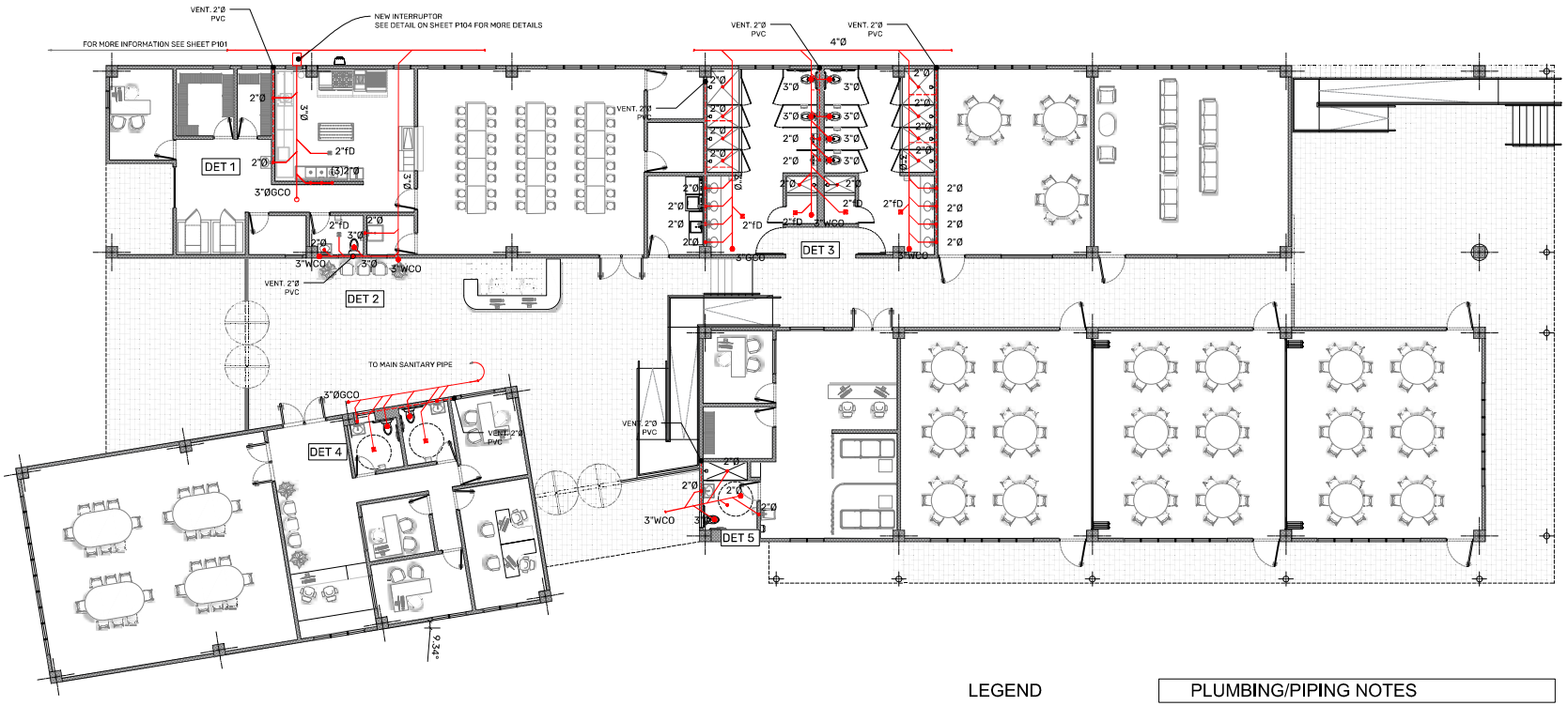
TITLE

PROPOSED PLUMBING SITE PLAN

DRAWING No.

P101

PROPOSED SANITARY PLAN



LEGEND

———	SANITARY LINE
CW	COLD WATER
WCO	WALL CLEAN OUT
GCO	GROUND CLEAN OUT
FD	FLOOR DRAIN
HB	HOSE BIBB
	GATE VALVE
	WATER METER

PLUMBING/PIPING NOTES

1. ALL PLUMBING ACTIVITIES WILL BE DONE FOLLOWING THE HEALTH DEPARTMENT REGULATIONS, LOCAL UPDATED CODE, THE NATIONAL PLUMBING CODE AND SPECIFICATIONS.

2. THE SITE SPECIFIED ON THE TABLE FOR ALL SANITARY DEVICES ARE THE MINIMUM, IF NECESSARY THEY WILL BE ENLARGED TO COMPLY WITH CODE OR LOW IT SHOULD BE SPECIFIED IN CONTRACT.

3. ALL SANITARY HORIZONTAL LINES WILL HAVE A MINIMUM SLOPE OF 1/8" PER FOOT.

4. THE CONTRACTOR WILL SUPPLY ALL MATERIALS, PIPES AND PARTS REQUIRED FOR A COMPLETE AND APPROVED INSTALLATION. ALL PLUMBING SYSTEMS WILL BE IN PERFECT WORKING CONDITIONS BY THE END OF THE JOB. THE CONTRACTOR IS RESPONSIBLE FOR ALL PERMITTING NECESSARY AND REQUIRED BY "LA AUTORIDAD DE ACUEDUCTOS OF P.R." AND OTHER AGENCIES CONCERNED INCLUDING THE CITY, BEFORE AND AFTER THE WORK IN DONE SO THAT ALL INSPECTIONS ARE DONE FOR THE AGENCIES INVOLVED.

5. THE CONTRACTOR WILL DETERMINE THE EXACT LOCATION OF ALL PIPES TO AVOID INTERFERENCE WITH OTHER PIPES OR ACTIVITIES DONE BY OTHER SUB- CONTRACTORS.

6. LONG CURVES WILL BE INSTALLED IN THE BASES OF WALL VERTICAL ASSEMBLIES (MUÑECOS).

7. THE CONTRACTOR WILL OBTAIN THE EXISTING HYDROSTATIC PRESSURES READINGS FOR THE SITE AND WILL NOTIFY THE OWNER AND ARCHITECT

8. ALL WATER DISTRIBUTION SYSTEMS WILL HAVE INDEPENDENT GATE VALVES WITH BOX AND LID.

9. ALL WATER LINES WILL MAINTAIN A MINIMUM DISTANCE OF 1'-0" FROM OTHER SANITARY LINES.

10. ALL GATE VALVES, WALLS AND FLOORS WILL LAVE ACCESS FOR MAINTENANCE AND WILL HAVE BOXES WILL ACCESS DOORS, WHAT EVEN SITE APPLIES.

11. ALL PIPES WILL BE HUNG WITH THE ADEQUATE SUPPORTS ALL SUPPORTS. WILL BE INSTALLED AT A MAXIMUM OF 8'-0" FOR LIVES UP TO 4" IN DIAMETER.

12. CLEAN OUTS WILL BE PROVIDED AT A MINIMUM DISTANCE OF 50' OR OTHERWISE SPECIFIED IN THE BLUEPRINTS.

13. ALL THE MATERIAL USED AND INSTALLED WILL BE NEW.

1 PROPOSED SANITARY PLAN
SCALE: 1/8"= 1'-0"

PROJECT ADDRESS
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LAJAS, P.R. 00667

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OWNER
LAJAS MUNICIPALITY

REGISTER No.
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REVISIONS

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CERTIFICATION
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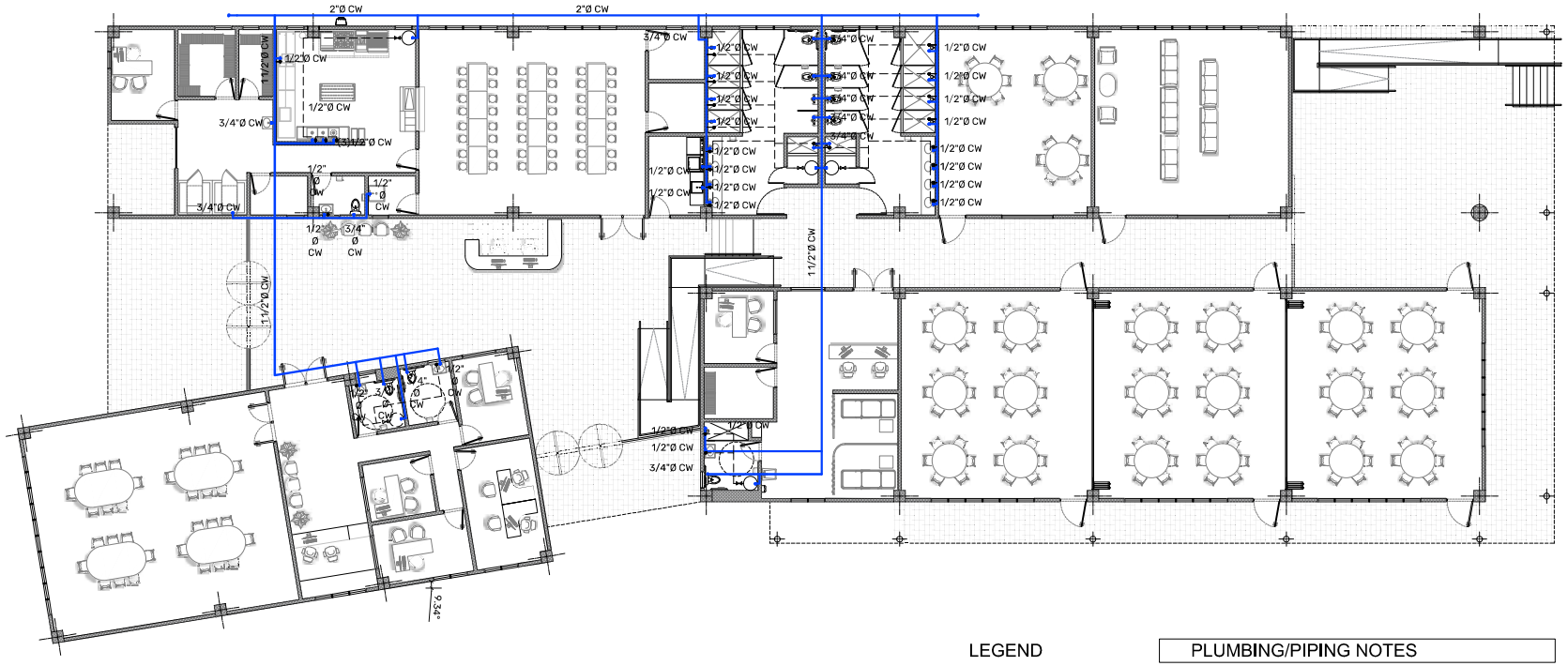
SIGNATURE
William Melendez Rivas
Lic. 16383
Puerto Rico

FILE
Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
PROPOSED SANITARY PLAN

DRAWING No.
P102

PROPOSED WATER DISTRIBUTION PLAN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2"Ø CW
2"Ø CW
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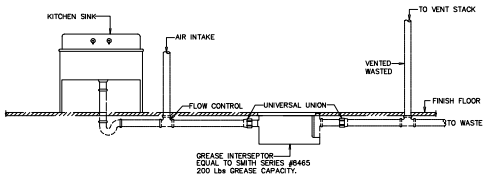
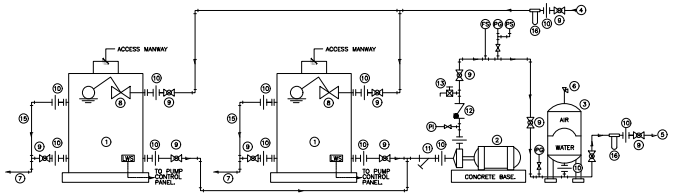
1/2"Ø CW
1/2

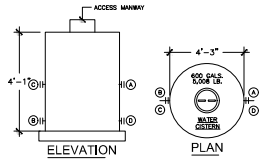
G E N E R A L P L U M B I N G D E T A I L S



1 GREASE INTERCEPTION INSTALLATION DETAIL

SCALE: NOT TO SCALE





TAG	SIZE	DESCRIPTION	CONNECTION TYPE
A	1"ø	WATER INLET	FLANGE
B	2"ø	DRAIN	FLANGE
C	2"ø	OVERFLOW	FLANGE
D	1"ø	SUPPLY	FLANGE
E	24"ø	ACCESS MAN-WAY	N/A

TANK DETAIL

SCALE N.T.S.

2 TANK DETAIL

SCALE: NOT TO SCALE

CISTERN LEGEND:

1. 1,000 GALS. POTABLE WATER CISTERN.
2. (1) 5.0 HP CENTRIFUGAL PUMP
3. HYDROPNEUMATIC TANK.
4. 2" COLD WATER CISTERN FEED LINE (COPPER). (FOR CONT. SEE PLUMBING DWG'S).
5. 2" SUPPLY LINE TO SYSTEM (COPPER). (FOR CONT. SEE PLUMBING DWG'S).
6. RELIEF VALVE
7. 2" DRAIN PIPE (PVC). (FOR CONT. SEE PLUMBING DWG'S).
8. FLOAT VALVE
9. BALL VALVE (BRONZE BODY).
10. UNIVERSAL UNION
11. STRAINER
12. SWING CHECK VALVE
13. PURGE VALVE
14. PRESSURE REGULATING NON-SLAM
15. 2" OVER FLOW (PVC)
16. IN-LINE FILTER (5 Mc)
- FS. FLOW SENSOR
- PG. PRESSURE GAUGE
- PS. PRESURE SWITCH
- PI. PRESSURE INDICATOR
- LWS. LOW WATER SWITCH

SYSTEM DESCRIPTION:

1. CONTRACTOR SHALL FURNISH AND INSTALL A WATER RESERVOIR/BOOSTER SYSTEM WITH TWO 600 GAL. STORAGE CAPACITY SIZE POLIETILENE TANK, 3 HP BOOSTER PUMP, 44 GAL. HYDROPNEUMATIC TANK, PRESSURE SWITCH, IN-LINE FILTER, 24"ø ACCESS MAN WAY. SYSTEM SHALL BE SIMILAR TO UNIVERSAL SOLAR MODEL TYPE.

WATER FLOW DIAGRAM

SCALE N.T.S.

PROJECT ADDRESS

ELDERLY SERVICE CENTER
CALLE FERROCARRIL #11 BO. PUEBLO,
LAJAS, P.R. 00667

GPS LATITUDE/LONGITUDE:
18.04941608, -67.05761236

OWNER

LAJAS MUNICIPALITY

REGISTER No.

358-032-072-01

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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IMPORTANT NOTES TO THE CONTRACTOR:

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE PROCEEDING WITH WORK. IF ANY DISCREPANCIES, ERRORS OR OMISSIONS SHOULD BE ENCOUNTERED ON PLANS, CONTRACTOR SHALL NOTIFY THE ENGINEER BEFORE ANY PART OF THE WORK IS STARTED SO THAT PROPER CORRECTIONS ARE MADE. IF ENGINEER IS NOT NOTIFIED PRIOR TO COMMENCING OF THE WORK, ALL DESIGNS AND DRAWINGS HEREIN AND PRINTS ISSUED BY THE ENGINEER ARE THE PROPERTY OF THE ENGINEER AND SHALL NOT BE REUSED ON ANY OTHER LOCATION EXCEPT THE ONE FOR WHICH THEY EXPRESSLY DESIGNED. IF THESE DRAWINGS OR ANY PART THEREOF IS REPRODUCED WITHOUT THE CONSENT OF THE ENGINEER, THE PERSON WHO IS DOING WILL BE INSERTED TO THE ENGINEER FOR HIS FULL COMMISSION. CONTRACTOR SHALL NOT USE FOR CONSTRUCTION PURPOSES ANY DRAWINGS THAT WERE ADVANCE TO HIM PRIOR TO THE BEGINNING OF CONSTRUCTION, ALL PLANS BEING USED BY CONTRACTOR SHOULD HAVE A LABEL SAYING "FOR CONSTRUCTION ONLY" SIGNED AND SEALED BY THE ENGINEER.

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SIGNATURE

William Melendez Rivas
Ingeniero
Licenciado
Lic. 16583
Puerto Rico

FILE

Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

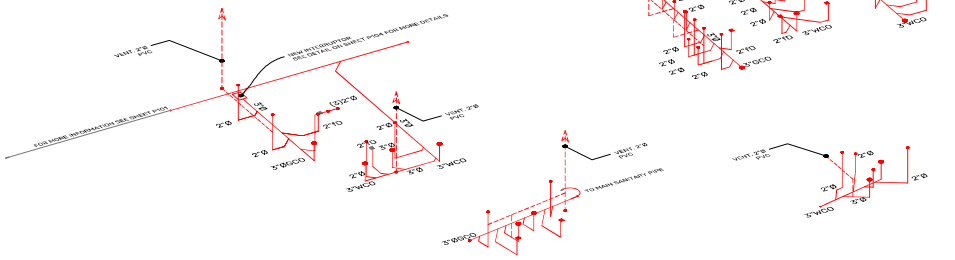
TITLE

GENERAL PLUMBING DETAILS

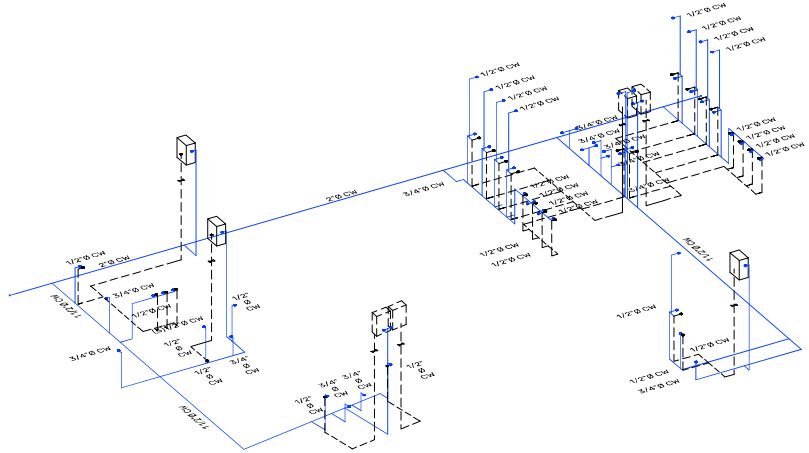
DRAWING No.

P104

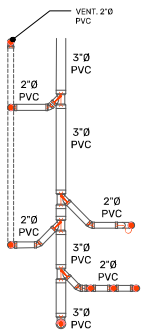
ISOMETRICS VIEWS



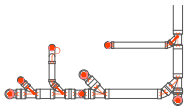
2 PROPOSED SANITARY ISOMETRIC
SCALE: 1/8"= 1'-0"



1 PROPOSED WATER DISTRIBUTION ISOMETRIC
SCALE: 1/8"= 1'-0"



SANITARY DETAIL 01
SCALE: 3/4" = 1' - 0"



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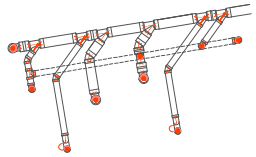
SCALE: 3/4" = 1' - 0"



SANITARY DETAIL 04
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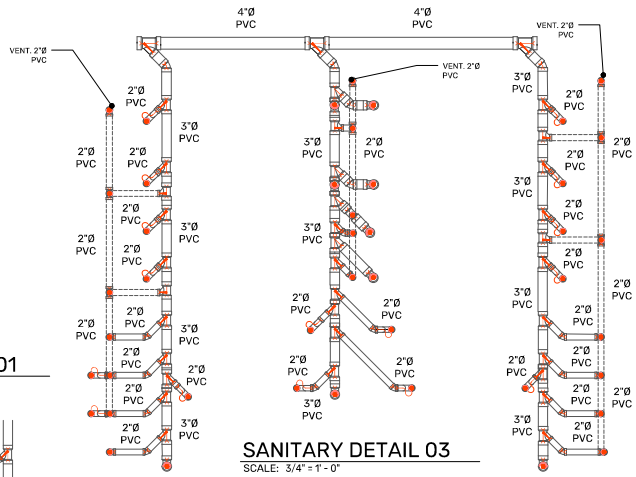

SANITARY DETAIL 03
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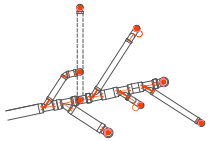

SANITARY DETAIL 05
SCALE: 3/4" = 1' - 0"

LEGEND

	SANITARY LINE
CW	COLD WATER
WCO	WALL CLEAN OUT
GCO	GROUND CLEAN OUT
FD	FLOOR DRAIN
HB	HOSE BIBB
	GATE VALVE
	WATER METER

PLUMBING/PIPING NOTES

1. ALL PLUMBING ACTIVITIES WILL BE DONE FOLLOWING THE HEALTH DEPARTMENT REGULATIONS, LOCAL UPDATED CODE, THE NATIONAL PLUMBING CODE AND SPECIFICATIONS.

2. THE SITE SPECIFIED ON THE TABLE FOR ALL SANITARY DEVICES ARE THE MINIMUM, IF NECESSARY THEY WILL BE ENLARGED TO COMPLY WITH CODE OR LOW IT SHOULD BE SPECIFIED IN CONTRACT.

3. ALL SANITARY HORIZONTAL LINES WILL HAVE A MINIMUM SLOPE OF 1/8" PER FOOT.

4. THE CONTRACTOR WILL SUPPLY ALL MATERIALS, PIPES AND PARTS REQUIRED FOR A COMPLETE AND APPROVED INSTALLATION. ALL PLUMBING SYSTEMS WILL BE IN PERFECT WORKING CONDITIONS BY THE END OF THE JOB. THE CONTRACTOR IS RESPONSIBLE FOR ALL PERMITTING NECESSARY AND REQUIRED BY "LA AUTORIDAD DE ACUEDUCTOS OF P.R." AND OTHER AGENCIES CONCERNED INCLUDING THE CITY, BEFORE AND AFTER THE WORK IN DONE SO THAT ALL INSPECTIONS ARE DONE FOR THE AGENCIES INVOLVED.

5. THE CONTRACTOR WILL DETERMINE THE EXACT LOCATION OF ALL PIPES TO AVOID INTERFERENCE WITH OTHER PIPES OR ACTIVITIES DONE BY OTHER SUB- CONTRACTORS.

6. LONG CURVES WILL BE INSTALLED IN THE BASES OF WALL VERTICAL ASSEMBLIES (MUÑECOS).

7. THE CONTRACTOR WILL OBTAIN THE EXISTING HYDROSTATIC PRESSURES READINGS FOR THE SITE AND WILL NOTIFY THE OWNER AND ARCHITECT

8. ALL WATER DISTRIBUTION SYSTEMS WILL HAVE INDEPENDENT GATE VALVES WITH BOX AND LID.

9. ALL WATER LINES WILL MAINTAIN A MINIMUM DISTANCE OF 1'-0" FROM OTHER SANITARY LINES.

10. ALL GATE VALVES, WALLS AND FLOORS WILL LAVE ACCESS FOR MAINTENANCE AND WILL HAVE BOXES WILL ACCESS DOORS, WHAT EVEN SITE APPLIES.

11. ALL PIPES WILL BE HUNG WITH THE ADEQUATE SUPPORTS ALL SUPPORTS. WILL BE INSTALLED AT A MAXIMUM OF 8'-0" FOR LIVES UP TO 4" IN DIAMETER.

12. CLEAN OUTS WILL BE PROVIDED AT A MINIMUM DISTANCE OF 50' OR OTHERWISE SPECIFIED IN THE BLUEPRINTS.

13. ALL THE MATERIAL USED AND INSTALLED WILL BE NEW.

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3 5 8 - 0 3 2 - 0 7 2 - 0 1

REVISIONS

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Lic. 16383
Puerto Rico

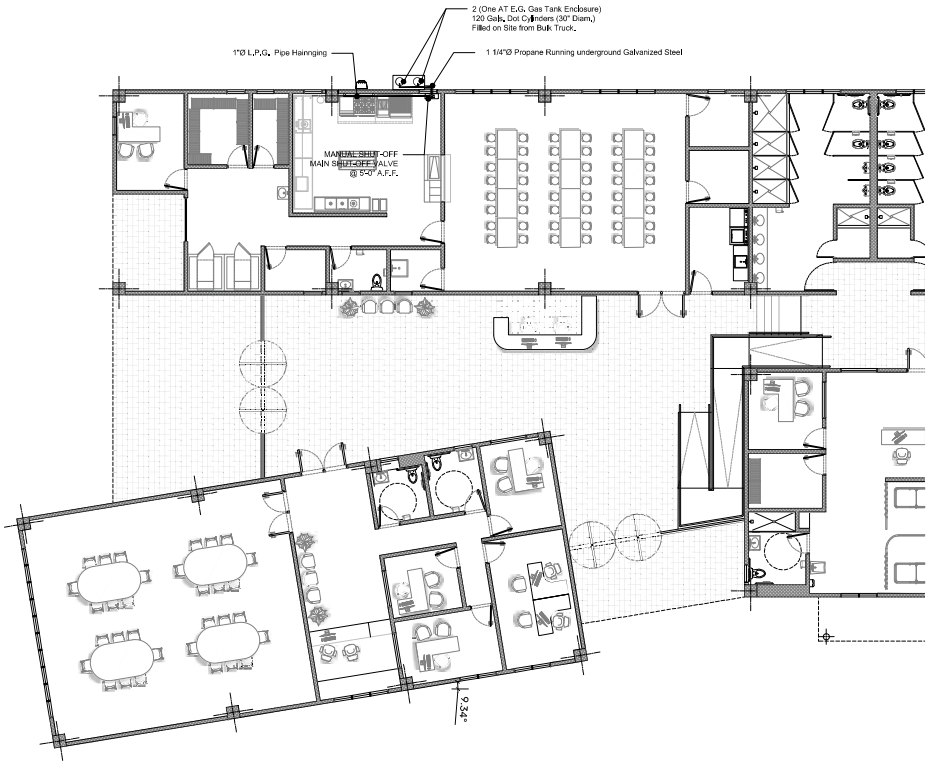
FILE

Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
ISOMETRICS VIEWS

DRAWING No.
P105

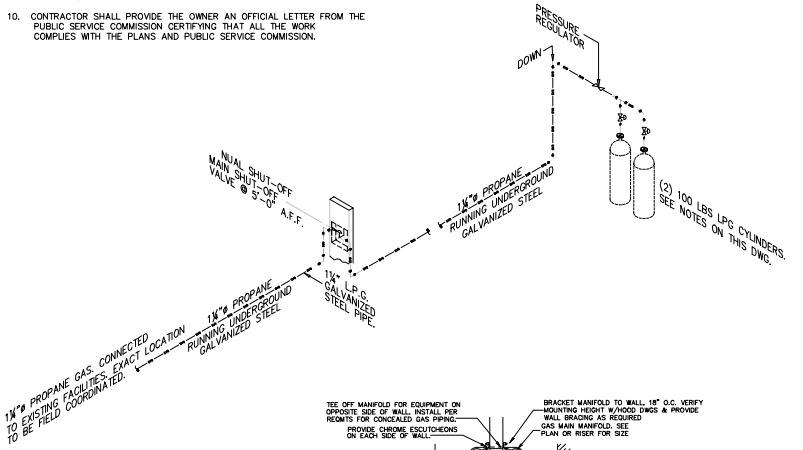
G A S L I N E I N S T A L L A T I O N S Y S T E M

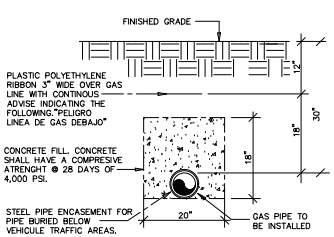


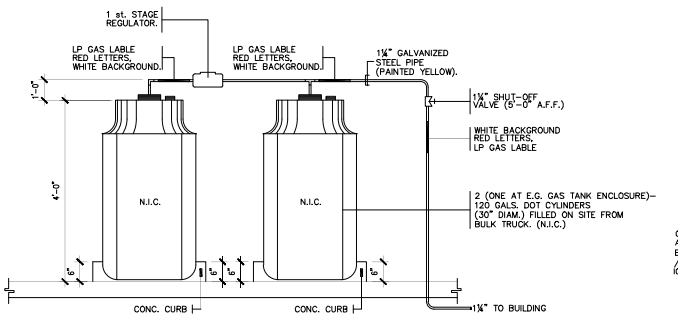
1. CONTRACTOR MUST NOTIFY THE PUERTO RICO PUBLIC SERVICE COMMISSION BEFORE STARTING ANY WORK ON THIS PROJECT PHASE AND SHALL COORDINATE WITH IT FOR INTERMEDIATE AND FINAL INSPECTION OF ALL GAS LINES INSTALLATION.
2. UNDERGROUND PIPING SHALL NOT BE INSTALLED AT LESS THAT 30 INCHES FROM FINISHED GROUND COMPLETELY COVERED WITH PIPE WRAP PROTECTION AND PROPERLY IDENTIFIED WITH AN INDICATING TAPE.
3. ALL PIPING SHALL BE PRESSURE TESTED BEFORE INSTALLATION.
4. PIPING SYSTEMS, MATERIALS, INSTALLATION AND TESTING SHALL BE IN ACCORDANCE WITH NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 54 AND 58.
5. PIPING SHALL BE ONE OF THE FOLLOWING:

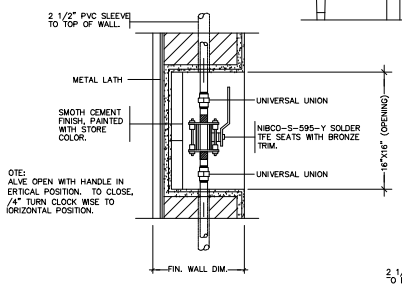
   B. ALL PIPING SHALL BE GALVANIZED STEEL WITH SCREWED FITTINGS AS PER NFPA 54, 2.6.

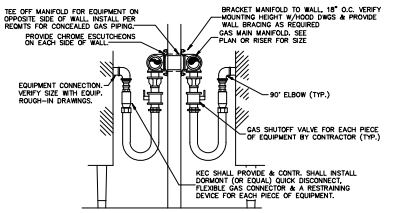
6. PROVIDE A PVC SCH 40 PIPE SLIEVE IN ALL WALL PENETRATIONS.
7. ALL GAS PIPES LINES ENDS, SHALL BE CAPPED WHILE NOT IN USE (DURING AND AFTER CONSTRUCTION).
8. ALL GAS LINES SHALL BE SUBJECT TO PRESSURE TEST AS REQUIRED BY THE PUBLIC SERVICE COMMISSION.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE APPROVAL OF THE INSTALLATION FROM THE PUBLIC SERVICE COMMISSION WHEN THE WORK IS COMPLETED.
10. CONTRACTOR SHALL PROVIDE THE OWNER AN OFFICIAL LETTER FROM THE PUBLIC SERVICE COMMISSION CERTIFYING THAT ALL THE WORK COMPLIES WITH THE PLANS AND PUBLIC SERVICE COMMISSION.
11. ALL PIPING SYSTEMS SHALL BE PRESSURE TESTED TO 1-1/2 TIMES WORKING PRESSURE FOR 24 HOURS TO INSURE NO LEAKS ARE PRESENT USING AN APPROVED GAS. A TEST PRESSURE OF 100 P.S.I.G. SHALL BE USED.
12. ALL PIPING CONNECTIONS AND JOINTS SHALL BE CHECKED FOR LEAKS USING SOAPY WATER APPLIED WITH SUITABLE BRISTLE BRUSH. CONTRACTOR SHALL PROVIDE ALL GAS, PIPING, REGULATORS, GAUGES, SOAP, BRUSHES, WRENCHES, AND NECESSARY MATERIALS AND FACILITIES REQUIRED TO PERFORM THE ABOVE TESTS.
13. A HIGH PRESSURE REGULATOR SHALL BE CAPABLE OF REDUCING FROM THE TANK PRESSURE TO 15 P.S.I.G. LOW PRESSURE REGULATORS AT THE BUILDING SHALL FURTHER REDUCE PRESSURE TO VALVE SPECIFIED.
14. ALL UNDERGROUND PIPING BELOW TRAFFIC AREAS SHALL BE PROTECTED BY MEANS OF A STEEL PIPE ENCLOSURE.
15. ALL EXPOSED GAS PIPING SHALL BE PROTECTED BY MEANS OF A PVC PIPE ENCLOSURE.
16. CONTRACTOR SHALL COMPLY WITH ALL P.B.A. STANDARDS. ANY DISCREPANCIES SHALL BE NOTIFY TO THE ARCHITECT PRIOR TO CONSTRUCTION.
17. CONTRACTOR SHALL PROVIDE PROPER PROTECTION FOR GAS CILINDERS. LOCATE LPG CILINDERS AT LEAST 10'-0" APART FROM BUILDING OPENINGS OR ELECTRICAL FIXTURE. FOLLOW ALL APLICABLE CODES AND STANDARS.

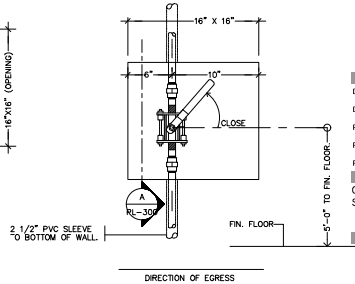












GAS LINE INSTALLATION SYSTEM

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

PROJECT ADDRESS
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I, WILLIAM MELENDEZ RIVAS, LIC. 16383, CERTIFY THAT I AM THE PROFESSIONAL WHO IMADE, DESIGNED OR PREPARED THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 14-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY AND WITH THE LAW NO. 399 OF MAY 15, 1938, AS AMENDED; ACT NO. 96 OF JULY 6, 1978, AS AMENDED, AS APPLICABLE. I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY ENDANGER OF NEGLIGENCE EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THIS DEPE.

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William Melendez Rivas, Lic. 16383, Puerto Rico

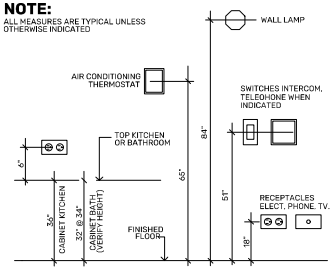
FILE
Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
GAS LINE INSTALLATION SYSTEM

DRAWING No.
P106

E L E C T R I C A L N O T E S & S I M B O L S

NOTE:
ALL MEASURES ARE TYPICAL UNLESS OTHERWISE INDICATED



ELECTRICAL LEGEND:

- SINGLE SWITCH GROUNDING TYPE 14 AMPS, 120/277 VOLTS, 4 INCH BOX WITH RAISER COVER CAT. NO. 770 RACO OR SIMILAR, 48" A.F.F. LETTER INDICATES OUTLET TO BE CONTROLLED, 48" A.F.F
- a,b — SAME AS ABOVE EXCEPT DUPLEX LETTER INDICATES OUTLET TO BE CONTROLLED.
- DUPLEX GROUNDING CONV. RECEPTACLE 15 AMPS, 125 VOLTS, 4 INCH SQ. BOX WITH RAISER COVER CAT. NO. 770 RACO OR SIMILAR 18" A.F.F
- DUPLEX GROUNDING CONV. RECEPTACLE 20 AMPS, 125 VOLTS, 4 INCH SQ. BOX WITH RAISER COVER CAT. NO. 770 RACO OR SIMILAR 48" A.F.F
- DUPLEX GROUNDING CONV. RECEPTACLE 15 AMPS, 125 VOLTS, 4 INCH SQ. BOX WITH RAISER COVER CAT. NO. 770 RACO OR SIMILAR 42" A.F.F
- SINGLE GROUNDING CONV. RECEPTACLE FOR REFRIGERATOR [20A-125V]
- KITCHEN HOOD POINT OF CONNECTION [20A-125V @ CEILING]
- SINGLE GROUNDING CONV. RECEPTACLE FOR MICROWAVE OVEN [20A-125V]
- DOUBLE GROUND FAULT INTERRUPTED OUTLET WITH WATER PROOF COVER AND ANTI-ELECTROCUTION [20A-125V @ 18"]
- RECEPTACLE 30 AMPS, 2 POLES 120/240 VOLT. FOR WASHER AND DRYER WITH BT. [@18" A.F.F.]
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- STAINLESS STEEL CEILING FAN 72". OUTLET PUDDLE FAN LISTED JUNCTION BOX.
- PB-# — NEW PANEL BOARD TO BE INSTALLED
- EMERGENCY LIGHT 4 INCH OCTAGONAL BOX
- EX2 OUTLOOK SERIE, EX2-1-R-3-SC-C-SD2T-A

FIRE ALARM GENERAL NOTES:

1. THE FIRE ALARM SYSTEM INSTALLATION SHALL COMPLY WITH NATIONAL FIRE ALARM AND SIGNALING CODE (NFPA 72 LASTED EDITION) AND PUERTO RICO'S FIRE DEPARTMENT REGULATIONS.
2. MAIN FIRE ALARM PANEL WILL BE INSTALLED IN THE ELECTRICAL ROOM.
3. ALL FIRE ALARM DEVICES SHALL BE ADDRESSABLE AND PROVIDED WITH VANDAL PROTECTION COVERS.
4. CONTRACTOR SHALL VERIFY AND TEST ENTIRE FIRE ALARM SYSTEM.
5. CONTRACTOR SHALL PROVIDE NEW FIRE ALARM EQUIPMENT, UL LISTING.
6. DETECTORS SHALL NOT BE INSTALLED UNTIL THE FINAL CLEANING IS COMPLETED.
7. FIRE ALARM PANEL - SLC OPERATES UP TO 10,000 FT. WITH TWISTED, SHIELED WIRE OR 3,000 FT. WITH UN TWISTED, UNSHIELDED WIRE.

FIRE ALARM SYMBOLS LEGEND

SYM.	DECRIPTION	MOUNTING HEIGHT
FACP	FIRE ALARM CONTROL PANEL EQUAL OR SIMILAR TO FIRE LITE ALARMS, MODEL MS-9600, BY HONEYWELL	CENTER AT 48" A.F.F.
SD	SMOKE DETECTOR - LOW PROFILE PLUG IN PHOTOELECTRIC SMOKE DETECTOR. CEILING MOUNTED EQUAL OR SIMILAR TO FIRE LITE ALARMS, MODEL SD636E3, BY HONEYWELL	CEILING
HD	HEAT DETECTOR - MECHANICAL HEAT DETECTOR, CEILING MOUNTED EQUAL OR SIMILAR TO FIRE LITE ALARMS, MODEL 5809 SERIES, BY HONEYWELL	CEILING
	STROBE HORN - INDOOR SPEAKER/STOBRE, WALL MOUNTED EQUAL OR SIMILAR TO FIRE LITE ALARM, MODEL SPSW(R)(W)(A), BY HONEYWELL	6" BELOW ACUSTIC
	PULL STATION / STROBE HORN - MANUAL FIRE ALARM PULL STATION, WALL MOUNTED EQUAL OR SIMILAR TO FIRE LITE ALARM, MODEL BG-12LX, BY HONEYWELL AND STROBE HORN AS PREVIOUSLY DESCRIBE.	48" A.F.F.
	EXIT SIGN ROYAL PACIFIC LTG. RXL 17 RW	

ELECTRICAL NOTES & SYMBOLS

SCALE: NOT TO SCALE

LIGHTING FIXTURES SCHEDULE

ID		DESCRIPTION	MOUNT TYPE	MANUFACTURER	MODEL	REMARK
L1		2FT ROUND LED PENDANT	PENDANT	ALCON LIGHTING	12201-QS-DD 35	
L2		EDGE LIT ARCHITECTURAL LED FLAT PANEL HIGH EFFICIENCY DIRECT TROFFER	SURFACE	ALCON LIGHTING	14028	
L3		EDGE LIT ARCHITECTURAL LED FLAT PANEL HIGH EFFICIENCY DIRECT TROFFER	PANEL RECESSED	ALCON LIGHTING	14028	
L4		50" AEON ARCHITECTURAL LINEAR FLOURESCENT LIGHT FIXTURE WITH LAMP	SURFACE	ALCON LIGHTING	6024	
L5		ROUND DRUM CLOUD LED LIGHT FIXTURE	SURFACE	ALCON LIGHTING	12208	
L6		ARCHITECTURAL 4 INCH CYLINDER LED LIGHT AND DOWN LIGHT	WALL MOUNTED	ALCON LIGHTING	11240-2	
L7		735 LUMENS 4000K CONTINIUM 20 SERIES PENDANT (25'-0") WITH FINISH MATTE	PENDANT	ALCON LIGHTING	12100 20-P	
L8		735 LUMENS 4000K CONTINIUM 20 SERIES PENDANT (20'-0") WITH FINISH MATTE	SURFACE	ALCON LIGHTING	12100 20-P	
L9		735 LUMENS 4000K CONTINIUM 20 SERIES PENDANT (15'-0") WITH FINISH MATTE	SURFACE	ALCON LIGHTING	12100 20-P	
L10		ARCHITECTURAL EDGE LIT LED FLAT PANEL LIGHT	SURFACE	ALCON LIGHTING	14052	

IMPORTANT NOTE:

- ANY SPECIFIED FIXTURES OR FURNITURE MUST BE EQUAL OR SIMILAR AND SHOULDN'T BE BRAND SPECIFIC. ANY SPECIFIED BRAND IS ONLY FOR CONTRACTOR'S CONVENIENCE AND SHOULDN'T BE INTERPRETED AS THE ONLY CHOICES. CONTRACTOR MUST SUBMIT SHOP DRAWINGS OF FIXTURES AND/OR FURNITURE TO BE USED.

ELECTRICAL GENERAL NOTES

1. UNLESS OTHERWISE INDICATED ALL WIRES AND CABLES SHALL BE #12 AWG.
2. UP TO #10 AWG USE WIRE, ALL LARGER SIZES BE CABLE.
3. ALL WIRE SHALL BE 600 VOLTS INSULATION THWN - STRANDED WIRES.
4. UNLESS OTHERWISE INDICATED, ALL WIRES AND CABLES SHALL BE COPPER.
5. PROVIDE GROUND WIRE IN ALL THE CONDUITS THAT ARE INDICATED TO BE PVC. SCHEDULE 40.
6. PROVIDE #12 AWG GREEN JUMPER BETWEEN RECEPTACLE GROUNDING SCREW AND OUTLET BOX GROUNDING SCREW.
7. UNLESS OTHERWISE INDICATED (IN THE PANELBOARD) ALL CONDUITS SHALL BE EMT PER CEILING, FOR UNDERGROUND, CONCRETE SLAB, AND WALL CONDUIT USE PVC SCHEDULE 40.
8. UNLESS OTHERWISE INDICATED ALL CONDUITS SHALL BE 3/4" DIAMETER MINIMUM.
9. ALL UNDERGROUND CONDUIT COUPLINGS SHALL BE WATERTIGHT.
10. PROVIDE EXPANSION JOINT COUPLINGS OF THE REQUIRED TYPE AND SIZE WHENEVER A CONDUIT CROSSES AN EXPANSION JOINT.
11. PROVIDE CONDUIT PLASTIC DIVIDERS IN ALL UNDERGROUND CONDUIT RUNS.MAXIMUM DISTANCE BETWEEN DIVIDERS TO BE 4'-0".
12. CONTRACTOR MUST MAKE SURE THAT THE ENTIRE ELECTRICAL SYSTEM HAS GROUND CONTINUITY.
13. ALL THE ELECTRICAL INSTALLATION SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER, ACCORDING TO THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, THE PUERTO RICO ELECTRICAL POWER AUTHORITY LATEST STANDARDS AND PUERTO RICO TELEPHONE COMPANY OR COMMUNICATIONS AUTHORITY LATEST PRACTICES.
14. ALL OUTLETS SHALL HAVE ITS OWN INDEPENDENT OUTLET BOX MINIMUM SIZE OF OUTLET BOX TO BE 4" SQUARE BY 1 1/2" DEEP EXACT SIZE OF OUTLET BOX TO BE DETERMINED ACCORDING TO THE MAXIMUM NUMBER OF CONDUCTORS IN THE BOX PER N.E.C. ARTICLE 370-SECTION 16.
15. THE CONTRACTOR SHALL VISIT THE JOB SITE AND BECOME ACQUAINTED WITH THE EXISTING FIELD CONDITIONS. IF SHALL BE THE DIRECT RESPONSIBILITY OF THE CONTRACTOR TO BRING PROMPTLY TO THE ATTENTION OF THE ENGINEER ANY DISCREPANCIES BETWEEN THE EXISTING FIELD CONDITIONS AND THOSE THAT WERE USED FOR DESIGN PURPOSE. THIS SHALL BE DONE BEFORE THE CONTRACTOR SUBMITS HIS BID, SO THAT THE ENGINEER CAN RENDER A DECISION ON THE MATTER BEFORE THE BIDS ARE RECEIVED. THE SUBMITTAL OF THE BID BY THE CONTRACTOR WILL BE HELD AS PROOF THAT THE CONTRACTOR UNDERSTANDS THOROUGHLY AND COMPLETELY AS THE SCOPE THE WORK INVOLVED, HAS FAMILIARIZED HIMSELF WITH THE EXISTING FIELD CONDITIONS AND HAS INCLUDED ON HIS ALL THE NECESSARY ITEMS TO CARRY OUR THE ELECTRICAL WORK. NO ALLOWANCE WILL BE PERMITTED ON THIS MATTER AFTER THE BIDS ARE RECEIVED.
16. ALL SWITCHES AND RECEPTACLE SHALL BE IVORY COLORED WITH IVORY BAKELITE PLATES.
17. THE DIMENSIONS OF THE ELECTRICAL CABINET WILL BE SUBJECT TO THE RULES AND REGULATIONS OF PREPA.
18. PROVIDE ELECTRICAL 6" WIDE YELLOW IDENTITY TAPE FOR UNDERGROUND CABLES.THE TAPE SHALL BE PERMANENTLY PRINTED WITH CONTINUOS BLACK LETTERS 1 1/4"X5/8" WITH THE WORDS "PELIGRO-PELIGRO-PELIGRO" ON THE EDITION.
19. PROVIDE #10 WIRE ON ALL 20 AMP CIRCUIT 75 FEET OR LONGER, UNLESS OTHERWISE INDICATED.
20. ALL PANELS SWITCHES, STARTERS, CONTROL DEVICES AND MIOS ELECTRICAL APPARATUS SHALL BE CLEARLY MARKED WITH ENGRAVED PLASTIC NAMEPLATES FOR EASY IDENTIFICATION AND SAFETY. ALL PANELBOARD CIRCUITS SHALL BE PROPERLY IDENTIFIED WITH TYPE WRITTEN PLASTIC PROTECTED DIRECTORIES ON SUITABLE CARDS WHICH SHALL BE MOUNTED INTO CORRESPONDING PANELBOARD DOORS.
21. FURNISHED AND INSTALL ALL TELEPHONE CONDUITS AS SHOWN ON DRAWINGS. PROVIDE PULL STING IN ALL CONDUITS (FISH WIRE).
22. CONTRACTOR SHALL BALANCE ALL LOADS.
23. ALL EXPOSED CONDUIT SHALL BE RIGID GALVANIZED STEEL.
24. ALL PANELS, METERS, SAFETY SWITCHES, ETC., SHALL BE LA BELED SO AS TO IDENTIFY THEIR USE AND VOLTAGE, IN AN ACCEPTED AND APPROVED MANNER.
25. USE "LIQUID TIGHT" FLEXIBLE MATALIC CONDUIT FOR ALL MOTOR AND/ OR GENERATOR CONNECTION.
26. EXPANSION FITTINGS SHALL BE USED FOR EVERY CONDUIT CROSSING BUILDING EXPANSION JOINTS.

IMPORTANT NOTES

1. ALL ELECTRICAL SMOKE DETECTOR SHALL BE TANDEN CIRCUIT CONNECTION (PLUG TAP) AT EACH SPACE. (WIRING PER MANUF. SPECS.)
2. EMERGENCY (EM) LUMINARIES SHALL BE CIRCUITED WITH AN "UNSWITCHED HOT" TO PROVIDE CONTINUOUS POWER TO BATTERY PACK EVEN WHEN LUMINARIES IS OFF.
3. EXIT LIGHTS AND EMERGENCY LIGHTS AT DOORS SHALL BE CEILING MOUNTED AND CENTERED ABOVE DOOR.
4. LIGHTING CIRCUITS UP TO 100' IN LENGTH SHALL UTILIZE #12 CONDUCTORS MINIMUM. LIGHTING CIRCUITS FROM 101' TO 150' UTILIZE #10 CONDUCTORS MINIMUM. LIGHTING CIRCUITS FROM 151' TO 250' UTILIZE #8 CONDUCTORS MINIMUM. LIGHTING CIRCUITS ABOVE 251' LENGTH SHALL UTILIZE #6CONDUCTORS MINIMUM.

PROJECT ADDRESS
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CALLE FERROCARRIL #11 BO. PUEBLO,
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OWNER
LAJAS MUNICIPALITY

REGISTER No.
358-032-072-01

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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SIGNATURE

William Melendez Rivas, Engineer, Licensed, Lic. 16383, Puerto Rico

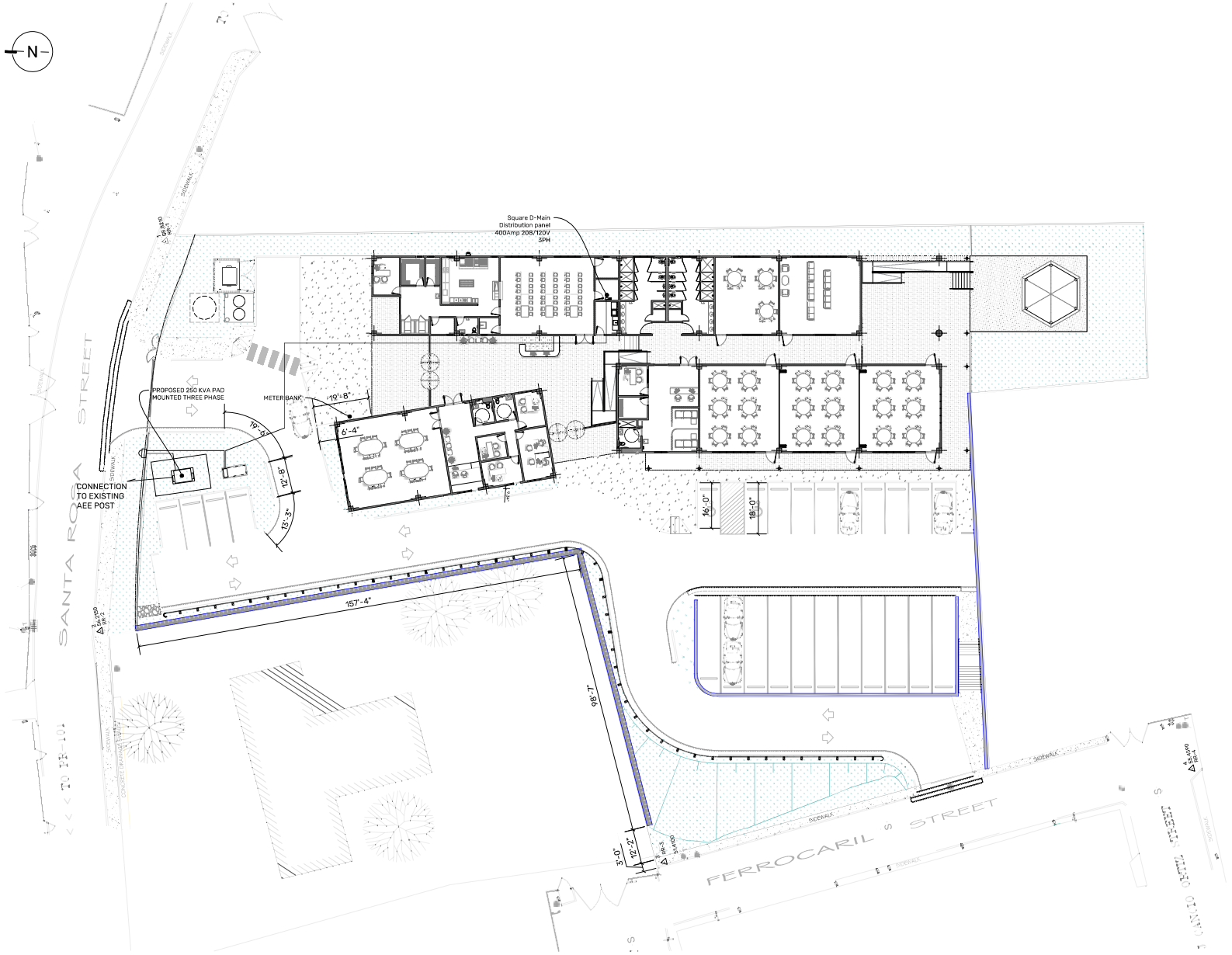
FILE

Dwg Name:	INGENIUM GROUP
Drawn by:	INGENIUM GROUP
Revised by:	ING. WILLIAM MELENDEZ
Plot Scale:	AS SHOWN
Progress Print:	

TITLE
ELECTRICAL NOTES & SIMBOLS

DRAWING No.
E100

E L E C T R I C A L S I T E P L A N



1 ELECTRICAL SITE PLAN

SCALE: 1/16" = 1'-0"

PROJECT ADDRESS

ELDERLY SERVICE CENTER
CALLE FERROCARRIL #11 BO. PUEBLO,
LAJAS, P.R. 00667

GPS LATITUDE/LONGITUDE:
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OWNER

LAJAS MUNICIPALITY

REGISTER No.

3 5 8 - 0 3 2 - 0 7 2 - 0 1

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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SIGNATURE

William Melendez Rivas
Lic. 16383 PR
Puerto Rico

FILE

Dwg Name: INGENIUM GROUP

Drawn by: INGENIUM GROUP

Revised by: ING. WILLIAM MELENDEZ

Plot Scale: AS SHOWN

Progress Print:

TITLE

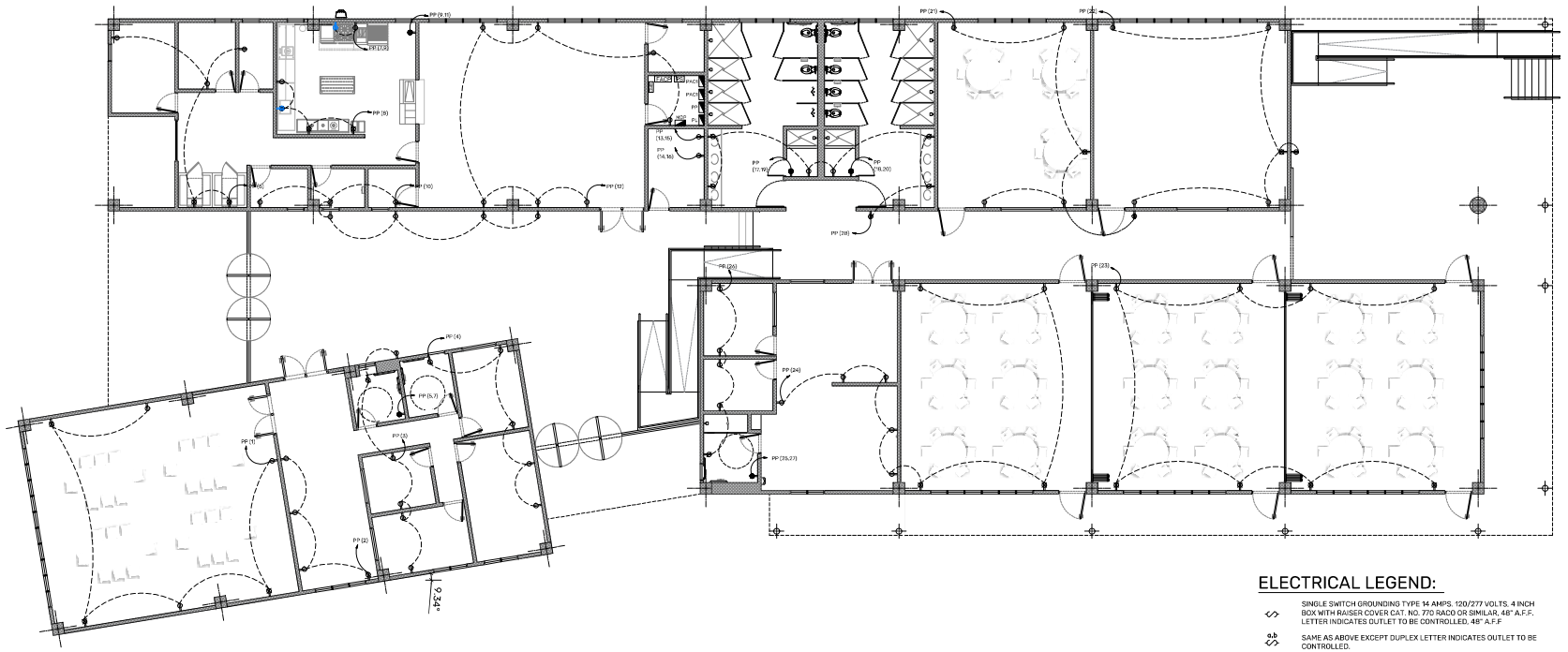
ELECTRICAL SITE PLAN

DRAWING No.

E101

E L E C T R I C A L P O W E R D I S T R I B U T I O N P L A N

N



ELECTRICAL LEGEND:

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- PB-# NEW PANEL BOARD TO BE INSTALLED
- EMERGENCY LIGHT 4 INCH OCTAGONAL BOX

EX2 OUTLOOK SERIE. EX2-1-R-3-SC-C-SD2T-A

ELECTRICAL POWER DISTRIBUTION PLAN

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

PROJECT ADDRESS

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SIGNATURE

William Melendez Rivas, Ingeniero, Licenciado, Lic. 16383, Puerto Rico

FILE

Dwg Name:	INGENIUM GROUP
Drawn by:	INGENIUM GROUP
Revised by:	ING. WILLIAM MELENDEZ
Plot Scale:	AS SHOWN
Progress Print:	

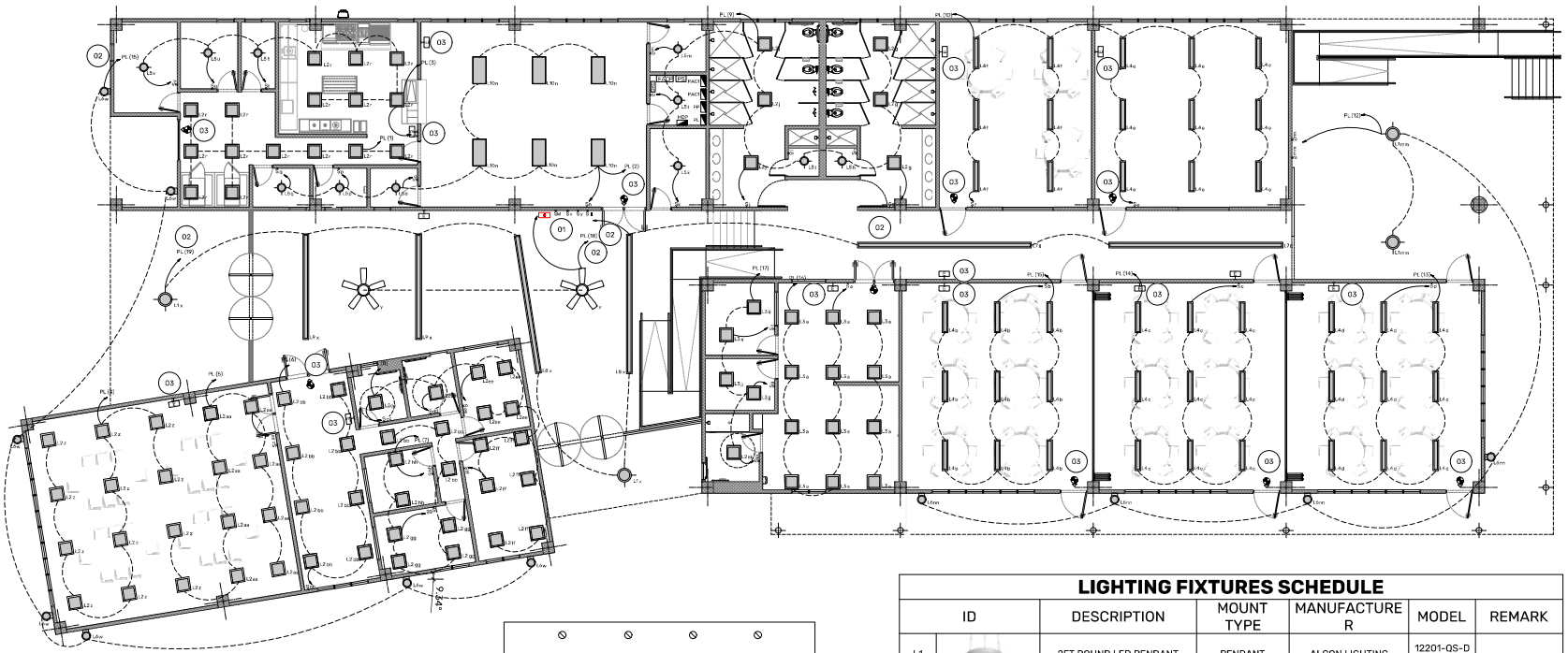
TITLE

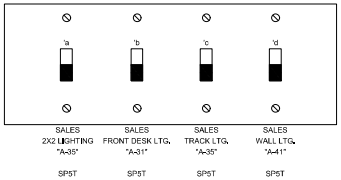
ELECTRICAL POWER DISTRIBUTION PLAN

DRAWING No.

E102

ELECTRICAL LIGHTING DISTRIBUTION PLAN





1 MASTER LIGHTING SWITCH BANK

SCALE: N.T.S.

KEY NOTES

MARK	DESCRIPTION
1	NEW LIGHTING SWITCH BANK, SEE DETAIL ON THIS SHEET. IF LOCATION IS UNDESIRABLE, FIELD VERIFY LOCATION WITH THE ARCHITECT AND PROJECT OWNER PRIOR TO ROUGH-IN.
2	CIRCUIT VIA MASTER LIGHTING SWITCH BANK. SEE DETAIL 1 OF THIS SHEET.
3	EMERGENCY FIXTURE TO BE SERVED UNSWITCHED LEG OF LOCAL CICUIT TO PROVIDE CONTINUOUS ILLUMINATION PER NEC 700-12(A) AND LIFE SAFETY

LIGHTING FIXTURES SCHEDULE

ID		DESCRIPTION	MOUNT TYPE	MANUFACTURER	MODEL	REMARK
L1		2FT ROUND LED PENDANT	PENDANT	ALCON LIGHTING	12201-0S-DD35	
L2		EDGE LIT ARCHITECTURAL LED FLAT PANEL HIGH EFFICIENCY DIRECT TROFFER	SURFACE	ALCON LIGHTING	14028	
L3		EDGE LIT ARCHITECTURAL LED FLAT PANEL HIGH EFFICIENCY DIRECT TROFFER	PANEL RECESSED	ALCON LIGHTING	14028	
L4		50" AEON ARCHITECTURAL LINEAR FLOURESCENT LIGHT FIXTURE WITH LAMP	SURFACE	ALCON LIGHTING	6024	
L5		ROUND DRUM CLOUD LED LIGHT FIXTURE	SURFACE	ALCON LIGHTING	12208	
L6		ARCHITECTURAL 4 INCH CYLINDER LED LIGHT AND DOWN LIGHT	WALL MOUNTED	ALCON LIGHTING	11240-2	
L7		735 LUMENS 4000K CONTINIUM 20 SERIES PENDANT (25'-0") WITH FINISH MATTE	PENDANT	ALCON LIGHTING	12100 20-P	
L8		735 LUMENS 4000K CONTINIUM 20 SERIES PENDANT (20'-0") WITH FINISH MATTE	SURFACE	ALCON LIGHTING	12100 20-P	
L9		735 LUMENS 4000K CONTINIUM 20 SERIES PENDANT (15'-0") WITH FINISH MATTE	SURFACE	ALCON LIGHTING	12100 20-P	
L10		ARCHITECTURAL EDGE LIT LED FLAT PANEL LIGHT	SURFACE	ALCON LIGHTING	14052	

IMPORTANT NOTE:

- ANY SPECIFIED FIXTURES OR FURNITURE MUST BE EQUAL OR SIMILAR AND SHOULDN'T BE BRAND SPECIFIC. ANY SPECIFIED BRAND IS ONLY FOR CONTRACTOR'S CONVENIENCE AND SHOULDN'T BE INTERPRETED AS THE ONLY CHOICES. CONTRACTOR MUST SUBMIT SHOP DRAWINGS OF FIXTURES AND/OR FURNITURE TO BE USED.

PROJECT ADDRESS
ELDERLY SERVICE CENTER
CALLE FERROCARRIL #11 BO. PUEBLO,
LAJAS, P.R. 00667

GPS LATITUDE/LONGITUDE:
18.04941608, -67.05761236

OWNER
LAJAS MUNICIPALITY

REGISTER No.
358-032-072-01

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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CERTIFICATION

I, WILLIAM MELENDEZ RIVAS, LIC. 16383, CERTIFY THAT I AM THE PROFESSIONAL WHO MADE, DESIGNED OR PREPARED THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 14-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY" AND WITH THE LAW NO. 339 OF MAY 15, 1938, AS AMENDED; ACT NO. 96 OF JULY 6, 1978, AS AMENDED, AS APPLICABLE). I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY IGNORANCE OR NEGLIGENCE EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE OGPE.

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SIGNATURE

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FILE

Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE

ELECTRICAL LIGHTING DISTRIBUTION PLAN

DRAWING No.

E103

P A N E L D I S T R I B U T I O N S C H E D U L E

PANEL NAME	PANEL LOCATION	PANEL SCHEDULE		CIRCUIT BREAKER REMARKS
1B3P MAIN DISTRIBUTION PANEL	ELECTRICAL ROOM GROUND FLOOR VOLTS: 120/208Y 3-WIRE GEN AMPS: 400A MLO MAIN BREAKER	BUS RATING 225AMPS	VOLTAGES L-L 208 L-N 120	

CKT. NO.	BREAKER	COND.	LOAD DESCRIPTION	WIRE	LOAD VA	PHASE AC			LOAD VA	WIRE	LOAD DESCRIPTION	COND.	BREAKER	CKT. NO.
						A	B	C						
1					1,260				630					2
3	225/3	2"	PANEL	4#2 & 1#6G	1,260				1,260	4#2 & 1#6G	PANEL	2"	225/3	4
5					1,260				1,260					6
7					1,710				1,530					8
9	60/3	2"	PL LIGHTING PANELBOARD 1ST. LEVEL	4#2 & 1#6G	1,530				1,080	4#2 & 1#6G	3P POWER PANELBOARD 1ST. LEVEL	2"	125/3	10
11					1,530				1,296					12
13					1,000				1,000	2#12 1#12 G	EXTERIOR LIGHTING	3/4"	20/1	14
15	15/3	1/2"	WATER PUMPS	2#12 1#12 G	2000						SPARE			16
17					2000						SPARE			18
19			SPARE								SPARE			20
21			SPARE								SPARE			22
23			SPARE								SPARE			24
									32,154	TOTAL CONNECTED LOAD IN VA - PHASE A				
									32,297	TOTAL CONNECTED LOAD IN VA - PHASE B				
									16,536	TOTAL CONNECTED LOAD IN VA - PHASE C				
									80,987	TOTAL CONNECTED LOAD IN VA - ALL PHASES				
			RECOMMENDED LOAD IN AMPS (125%)		389.55				337.52	TOTAL CONNECTED LOAD IN AMPS ALL PHASES				

PANEL NAME	PANEL LOCATION	PANEL SCHEDULE		CIRCUIT BREAKER REMARKS
PL' GRAB AND PANEL SUBBASEMENT FLOOR	VOLTS: 120/240V-3W-1Ø AMPS: 100A - 3P MAIN BREAKER	BUS RATING 225AMPS	VOLTAGES L-L 240 L-N 120	

CKT. NO.	BREAKER	COND.	LOAD DESCRIPTION	WIRE	LOAD VA	PHASE AC			LOAD VA	WIRE	LOAD DESCRIPTION	COND.	BREAKER	CKT. NO.
						A	B	C						
1	20/1	3/4"	ELECTRIC LIGHTING	2#12 1#12 G	216				864	2#12 1#12 G	BODY TOP LIGHTING	3/4"	20/1	2
3	20/1	3/4"	ELECTRIC LIGHTING	2#12 1#12 G	396				540	2#12 1#12 G	ELECTRIC LIGHTING	3/4"	20/1	4
5	20/1	3/4"	ELECTRIC LIGHTING	2#12 1#12 G	495				525	2#12 1#12 G	ELECTRIC LIGHTING	3/4"	20/1	6
7	20/1	3/4"	ELECTRIC LIGHTING	2#12 1#12 G	495				585	2#12 1#12 G	ELECTRIC LIGHTING	3/4"	20/1	8
9	20/1	3/4"	ELECTRIC LIGHTING	2#12 1#12 G	450				360	2#12 1#12 G	ELECTRIC LIGHTING	3/4"	20/1	10
11	20/1	3/4"	ELECTRIC LIGHTING	2#12 1#12 G	468				216	2#12 1#12 G	ELECTRIC LIGHTING	3/4"	20/1	12
13	20/1	3/4"	ELECTRIC LIGHTING	2#12 1#12 G	180				108	2#12 1#12 G	ELECTRIC LIGHTING	3/4"	20/1	14
15	20/1	3/4"	ELECTRIC LIGHTING	2#12 1#12 G	180				108	2#12 1#12 G	ELECTRIC LIGHTING	3/4"	20/1	16
17	20/1	3/4"	ELECTRIC LIGHTING	2#12 1#12 G	216				65	2#12 1#12 G	EXIT	3/4"	20/1	18
19	20/1	3/4"	ELECTRIC LIGHTING	2#12 1#12 G	360				65	2#12 1#12 G	WIRE GUARD PANEL	3/4"	20/1	20
21			SPARE								SPARE			22
23			SPARE								SPARE			24
									4,715	TOTAL CONNECTED LOAD IN VA - PHASE A				
									3,630	TOTAL CONNECTED LOAD IN VA - PHASE B				
									3,600	TOTAL CONNECTED LOAD IN VA - PHASE C				
									12,041	TOTAL CONNECTED LOAD IN VA - ALL PHASES				
			RECOMMENDED LOAD IN AMPS (125%)		33.11				36.41	TOTAL CONNECTED LOAD IN AMPS ALL PHASES				

PANEL NAME	PANEL LOCATION	PANEL SCHEDULE		CIRCUIT BREAKER REMARKS
	VOLTS: 120/208V-3W-1Ø AMPS: 100A - 3P MAIN BREAKER	BUS RATING 100AMPS	VOLTAGES L-L 240 L-N 120	

CKT. NO.	BREAKER	COND.	LOAD DESCRIPTION	WIRE	LOAD VA	PHASE AC			LOAD VA	WIRE	LOAD DESCRIPTION	COND.	BREAKER	CKT. NO.
						A	B	C						
1	20/1	3/4"			180				180					2
3	20/1	3/4"			180				180					4
5	20/1	3/4"			180				180					6
7	20/1	3/4"			180				180					8
9	20/1	3/4"			180				180					10
11	20/1	3/4"			180				180					12
13	20/1	3/4"			180				180					14
15	20/1	3/4"			180				180					16
17	20/1	3/4"			180				180					18
19	20/1	3/4"			180				180					20
21			SPARE								SPARE			22
23			SPARE								SPARE			24
									1,800	TOTAL CONNECTED LOAD IN VA - PHASE A				
									1,800	TOTAL CONNECTED LOAD IN VA - PHASE B				
									1,800	TOTAL CONNECTED LOAD IN VA - PHASE C				
									5,400	TOTAL CONNECTED LOAD IN VA - ALL PHASES				
			RECOMMENDED LOAD IN AMPS (125%)		15.00				15.00	TOTAL CONNECTED LOAD IN AMPS ALL PHASES				

PANEL NAME	PANEL LOCATION	PANEL SCHEDULE		CIRCUIT BREAKER REMARKS
	VOLTS: 120/208V-3W-1Ø AMPS: 100A - 3P MAIN BREAKER	BUS RATING 100AMPS	VOLTAGES L-L 240 L-N 120	

CKT. NO.	BREAKER	COND.	LOAD DESCRIPTION	WIRE	LOAD VA	PHASE AC			LOAD VA	WIRE	LOAD DESCRIPTION	COND.	BREAKER	CKT. NO.
						A	B	C						
1	20/1	3/4"			180				180					2
3	20/1	3/4"			180				180					4
5	20/1	3/4"			180				180					6
7	20/1	3/4"			180				180					8
9	20/1	3/4"			180				180					10
11	20/1	3/4"			180				180					12
13	20/1	3/4"			180				180					14
15	20/1	3/4"			180				180					16
17	20/1	3/4"			180				180					18
19	20/1	3/4"			180				180					20
21			SPARE								SPARE			22
23			SPARE								SPARE			24
									1,800	TOTAL CONNECTED LOAD IN VA - PHASE A				
									1,800	TOTAL CONNECTED LOAD IN VA - PHASE B				
									1,800	TOTAL CONNECTED LOAD IN VA - PHASE C				
									5,400	TOTAL CONNECTED LOAD IN VA - ALL PHASES				
			RECOMMENDED LOAD IN AMPS (125%)		15.00				15.00	TOTAL CONNECTED LOAD IN AMPS ALL PHASES				

PROJECT ADDRESS
ELDERLY SERVICE CENTER
CALLE FERROCARRIL #11 BO. PUEBLO,
LAJAS, P.R. 00667

GPS LATITUDE/LONGITUDE:
18.04941608, -67.05761236

OWNER
LAJAS MUNICIPALITY

REGISTER No.
3 5 8 - 0 3 2 - 0 7 2 - 0 1

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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SIGNATURE

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FILE
Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
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Plot Scale: AS SHOWN
Progress Print:

TITLE
PANEL DISTRIBUTION SCHEDULE

DRAWING No.
E104

P A N E L D I S T R I B U T I O N S C H E D U L E

PANEL NAME	PANEL LOCATION	PANEL CONFIGURATION		DIRECT OR OTHER REMARKS
"TABLE" POWER PANEL GROUND FLOOR	VOLTS: [illegible] AMPS: 125A (3P MAIN BREAKER)	BUS MATERIAL COPPER	VOLTAGES L-L 240 L-N 120	

CKT NO.	BREAKER	COND.	LOAD DESCRIPTION	WIRE	AMPS	PHASE A	PHASE B	PHASE C	LOAD VA	WIRE	LOAD DESCRIPTION	COND.	BREAKER	CKT NO.
1	20/2	3/4	AC unit 17	3#12 & #12 G	8.51				655	2#12 & 1#12 G	AC unit 15	3/4"	15/2	2
3					8.51				655					4
5	20/2	3/4	AC unit 19	3#12 & #12 G	8.51				655	2#12 & 1#12 G	AC unit 18	3/4"	15/2	6
7					8.51				655					8
9	20/2	3/4	AC unit 21	3#12 & #12 G	8.51				655	2#12 & 1#12 G	AC unit 20	3/4"	15/2	10
11					8.51				655					12
13	20/2	3/4	AC unit 23	3#12 & #12 G	8.51				655	2#12 & 1#12 G	AC unit 22	3/4"	15/2	14
15					8.51				655					16
17	20/2	3/4	AC unit 25	3#12 & #12 G	8.51				655	2#12 & 1#12 G	AC unit 24	3/4"	15/2	18
19					8.51				655					20
21	20/2	3/4	AC unit 27	3#12 & #12 G	8.51				655	2#12 & 1#12 G	AC unit 26	3/4"	15/2	22
23					8.51				655					24
25			SPARE								SPARE			26
27			SPARE								SPARE			28
29			SPARE								SPARE			30
									6,000	TOTAL CONNECTED LOAD IN V.A. - PHASE A				
									5,957	TOTAL CONNECTED LOAD IN V.A. - PHASE B				
									6,457	TOTAL CONNECTED LOAD IN V.A. - PHASE C				
									18,705	TOTAL CONNECTED LOAD IN V.A. - ALL PHASES				
			NEC DEMAND LOAD IN AMPS (100%)		64.95				51.94	TOTAL CONNECTED LOAD IN AMPS ALL PHASES				

PROJECT ADDRESS

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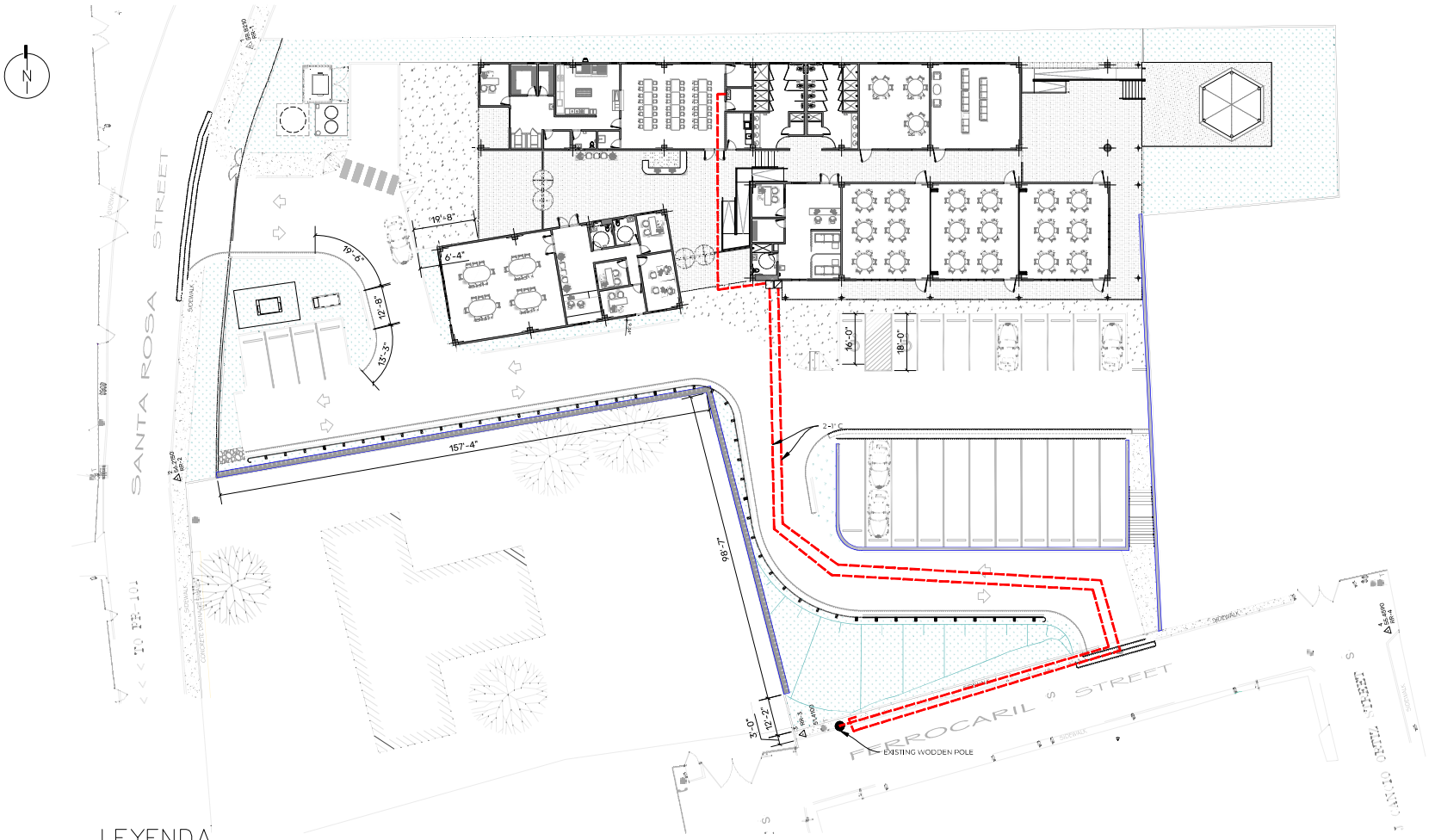
TITLE

PANEL DISTRIBUTION SCHEDULE

DRAWING No.

E105



LEYENDA

	2–1" 0 (MIN) SCH 40
●	POSTE DE MADERA EXISTENTE
□	JUNCTION BOX – CATV
⧄	JUNCTION BOX – TEL

PROPOSED TELECOMMUNICATIONS SITE PLAN

SCALE: 3/32" = 1'-0"

LOCATION

OBTAINED FROM: GOOGLE EARTH IMAGE

ELDERLY SERVICE CENTER
CALLE FERROCARRIL #11 BO. PUEBLO, LAJAS, P.R. 00667

COORDENADAS: GPS LATITUDE/LONGITUDE:
18.04941608, -67.05761236

CATASTRO : 358-032-072-01

SITE

PROJECT ADDRESS

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IMPORTANT NOTES TO THE CONTRACTOR:

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE PROCEEDING WITH WORK. IF ANY DISCREPANCIES, ERRORS OR OMISSIONS SHOULD BE ENCOUNTERED ON PLANS, CONTRACTOR SHALL NOTIFY THE ENGINEER BEFORE ANY PART OF THE WORK IS STARTED SO THAT PROPER CORRECTIONS ARE MADE. IF ENGINEER IS NOT NOTIFIED PRIOR TO COMMENCING OF THE WORK, ALL DESIGNS AND DRAWINGS HEREIN AND PRINTS ISSUED BY THE ENGINEER ARE THE PROPERTY OF THE ENGINEER AND SHALL NOT BE REUSED ON ANY OTHER LOCATION EXCEPT THE ONE FOR WHICH THEY EXPRESSLY DESIGNED. IF THESE DRAWINGS OR ANY PART THEREOF IS REPRODUCED WITHOUT THE CONSENT OF THE ENGINEER, THE PERSON WHO IS DOING WILL BE INDEBTED TO THE ENGINEER FOR HIS FULL COMMISSION. CONTRACTOR SHALL NOT USE FOR CONSTRUCTION PURPOSES ANY DRAWINGS THAT WERE ADVANCE TO HIM PRIOR TO THE BEGINNING OF CONSTRUCTION. ALL PLANS BEING USED BY CONTRACTOR SHOULD HAVE A LABEL SAYING "FOR CONSTRUCTION ONLY" SIGNED AND SEALED BY THE ENGINEER.

CERTIFICATION

I, WILLIAM MELENDEZ RIVAS, LIC. 16383, CERTIFY THAT I AM THE PROFESSIONAL WHO (MADE, DESIGNED OR PREPARED) THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 16-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY" AND WITH THE [LAW NO. 319 OF MAY 15, 1938, AS AMENDED; ACT NO. 96 OF JULY 6, 1978, AS AMENDED, AS APPLICABLE]. I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY IGNORANCE OR NEGLIGENCE EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS, WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE OGPR.

INGENIUM PROFESSIONAL GROUP

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FILE

Dwg Name: INGENIUM GROUP

Drawn by: INGENIUM GROUP

Revised by: ING. WILLIAM MELENDEZ

Plot Scale: AS SHOWN

Progress Print:

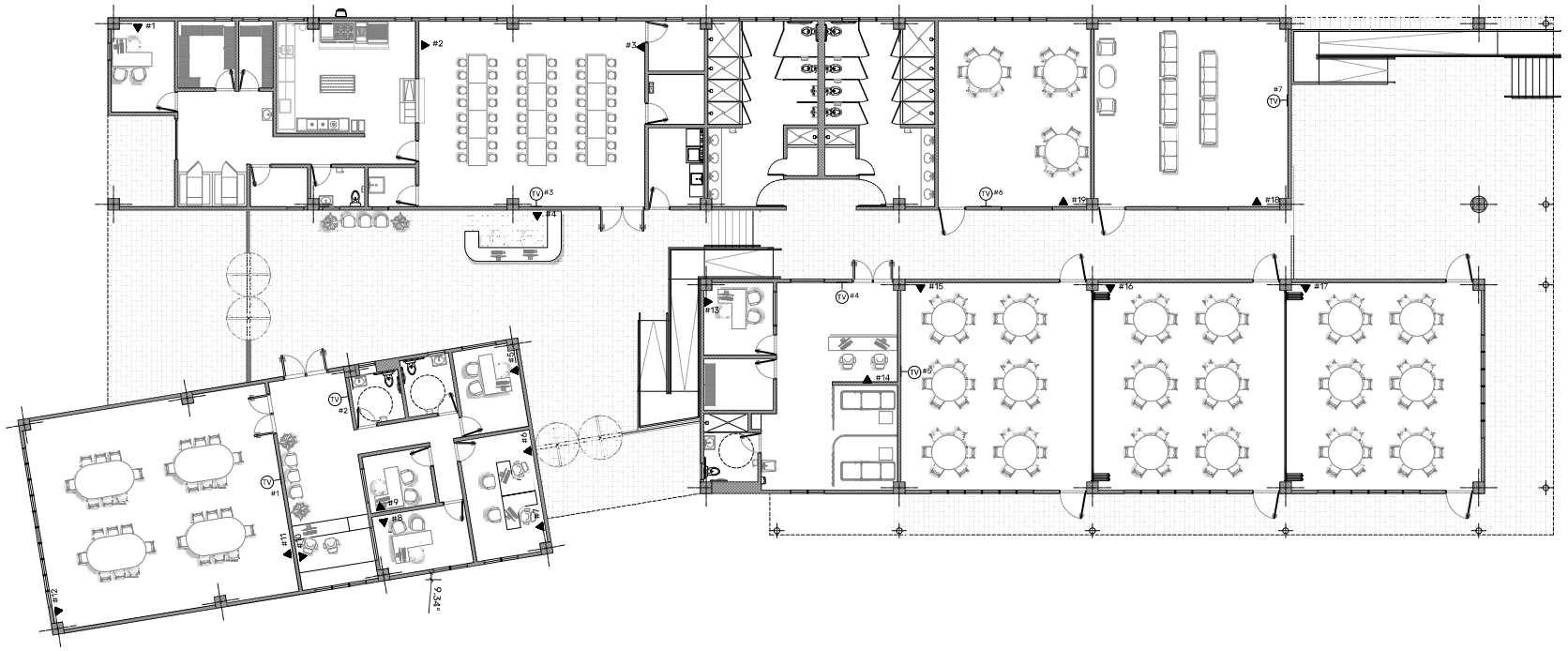
TITLE

TELECOMMUNICATIONS SITE PLAN

DRAWING No.

NET 100

PAGE: 76/89



LEGEND:

▽	TELEPHONE OUTLET FLUSH MOUNTED 1'–6" ABOVE FINISH FLOOR WITH IVORY COLOR TELEPHONE PLASTIC PLATE. SEE TELEPHONE RISER DIAGRAM.
	4" X 4" JUCTION BOX FOR INCOMING TELEPHONE SERVICE. SEE RISER DIAGRAM.
	POWER RECEPTACLE 20 AMP, 2P, 3W, 125/250V., IVORY COLOR WITH IVORY COLOR PLASTIC PLATE, FLUSH MOUNTED 7'–0" ABOVE FINISH FLOOR, GROUNDED TYPE (A/C UNIT.)
	POWER RECEPTACLE 30 AMP, 2P, 3W, 250V.,V., IVORY COLOR WITH IVORY COLOR PLASTIC PLATE, FLUSH MOUNTED 2'–0" ABOVE FINISH FLOOR, GROUNDED TYPE (WATER HEATER)
	2 1/2" X 4" JUCTION BOX INTELED FLUSH MOUNTED AT 4'–6" ABOVE FINISH FLOOR FOR INTERCOM SEE RISER DIAGRAM
	2 1/2" X 4" JUCTION BOX INSTALLED FLUSH MOUNTED AT 1'–6" ABOVE FINISH FLOOR FOR TELEVISION SEE RISER DIAGRAM.
	COMBINATION METER & MAIN BREAKER SEE ELECTRICAL RISER DIAGRAM.
	PANEL BOARD SEE SCHEDULE FOR DESCRIPTION.

TELECOMMUNICATIONS LAYOUT

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

PROJECT ADDRESS

ELDERLY SERVICE CENTER
CALLE FERROCARRIL #11 BO. PUEBLO,
LAJAS, P.R. 00667

GPS LATITUDE/LONGITUDE:
18.04941608, -67.05761236

OWNER

LAJAS MUNICIPALITY

REGISTER No.

358-032-072-01

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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CERTIFICATION

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FILE

Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE

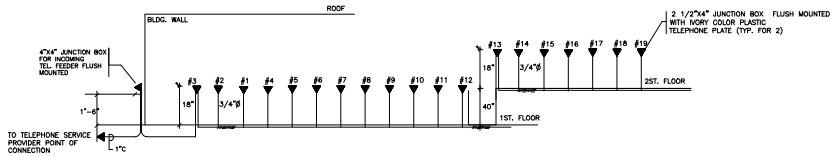
TELECOMMUNICATIONS LAYOUT AND DETAILS

DRAWING No.

NET 101

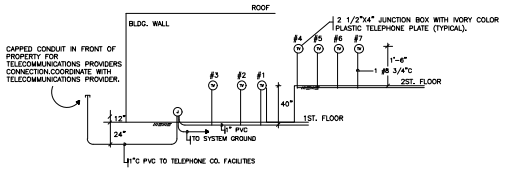
GENERAL NOTES

1. The developer or its representatives shall supply and install all materials required for telecommunications infrastructure, including but not limited to 1", 2" diameterconduits shown on the prints.
2. The 1"Ø conduits shall be PVC SCH 40 rodded with 1/3"Ø nylon rope with a minimumpulling strength of 300 lb.
3. The 2"Ø PVC conduit (For CATV distribution facilities) and the 4"Ø (for telephones distribution facilities) shall be installed in the telecommunications easement. The 2" Ø conduits shall be installed on the sidewalk side of the trench and the 4" Ø on thefarthermost side of the trench from the sidewalk (see easement conduit installation detail).
4. The 2"Ø and 4"Ø conduits shall be SCH 40 (minimum) rodded with 1/4"Ø nylon rope with a minimum breaking strength of 500 lbs. and shall be tested with 1-5/8" and 3-5/8" mandrels respectively.
5. All conduit ends shall be capped with PVC en caps.
6. The minimum depth of the conduits placed along the easement and service conduits to each residence shall be: 1"Ø Conduits 14" below ground level 2"Ø Conduits 24" below ground level 4"Ø Conduits 24" below ground level.
7. Then conduits are installed on concrete encase plastic spacers shall be installed every six feet or as specified by the manufacturer in order o maintain the proper conduit runformation and separation.
8. When exposed to vehicular traffic (highway, street, carpart crossing and parking areas) conduits shall be installed at a depth between 30" and 36" measured from the surface of the pavement and shall be encased in concrete with minimum resistance of 3000 lbs per square inch (3000 psi).
9. Trench backfilling shall be performed with selected materials free of large stones and other contaminants such as scraps of wood, asphalt, concrete pavement, etc. Backfill shall be compacted to 95% in 6 inch layers by means of a tamper, with the first 12 inches tampedusing lightweight equipment.
10. A six inch wide orange warning ribbon (equal or similar to Terra Tape ®42-0007) shall be installed at depth of 12" below ground level above the conduits and along the wholeconduit run.
11. The Developer or its representatives shall clearly identify all conduit ends (including but notlimited to distribution points, service conduits) when splicing or distribution boxes has not be specified or recommended. See "Wood Stake Detail".
12. The 2"Ø and 4"Ø conduit bends shall not be less than 90° and shall have a minimum radius of 36". All conduits shall be limited to two 90° sweeping bends in a conduit section.
13. Generally distribution boxes will be 3' x 3' x 3', 4' x 4' x 4' as well 6' x 4' x 4' and /or 7' x 4'-6" x 4' splice boxes will be installed for telecommunications services as indicated on prints. These boxes will not be located in areas not exposed to vehicular traffic and should be designed to resist incidental traffic. If boxes will be exposed to vehicular traffic a manhole or special box designed for that application should be installed with the capacity to avoid any deformation or collapse of itsentrance cover, similar or equal to Power Poles MH 6' x 6' x 7'
14. The distribution points or boxes should be placed in easement located two feet from the property line between lots without interfering with any entrance (carport or sidewalk).
15. Distribution boxes and splice boxes shall be
    a. Prefabricated with steel reinforced concrete (equal or similar to Power Poles Inc.)
    b. Cast in place with steel reinforced concrete.
    c. Prefabricated Polymer Concrete Box equal or similar to Quazite®) 17" x 30" x 18" (maximum size allowed) only will be accepted for Cable TV application in areas with space problem. Note any change in the type of boxes to be used will require the approval of JRTPR before their installation.
16. All conduits, whether or not in use, shall be sealed in Distribution Boxes, Splice Boxes, and Buildings Telecommunication Cabinet using a duct sealer (equal or similar to 3M®4414 Duct Sealing Kit).
17. 2"Ø conduits for cable televisoin (CATV) distribution facilities in residential projects, of single family unit homes, row houses, patio houses, etc., shall not be terminated at telecommunications distribution boxes. These conduits, as the 1"Ø conduits for CATV service drops, shall be end capped and left at CATV distribution points located in the planting strip (generally next to light posts) as indicated on prints.
18. The exterior metallic boxes 4" x 4" x 2 1/8" (minimum), for telecommunications service drops (Telephone and CATV), shall be installed on one of the living units walls carveniently located so as to provide easy unobstructed access.
19. The conduit, through which the ground wire for the exterior service drop metallic boxes shall be installed, shall come out from the living unit wall at a depth of six inches below ground level.
20. The telecommunications service drops electrical grounding will be achieved with the necessary 8' x 5/8" copper welded ground rods installed by the telecommunications service provider and must comply with the current National Electric Code.
21. All telecommunication systems (telephone and CATV) shall be bonded and grounded at all points and must comply with the current National Electric Code.
22. No more than two 90° bends shall be allowed in the conduits connecting the exterior metallic boxes for service drop and the interior service boxes.
23. The interior residential telecommunications service distribution conduits shall have a minimum 3/4" inside diameter and each living unit shall be provided with telecommunications services (telephone and CATV) outlets in the kitchen, living room and each of the bedrooms.
24. At Walk-Ups and multi-story residential buildings the minimum size for telecommunications cabinets shall be 36" x 24" x 6" for (Telephone) and 36" x 36" x 8" for (CATV) and shall serve no more than 16 units. The cabinets shall be equipped with a 3/4" thick treated plywood backboard, a hinged door with latch and key, and shall have complete frontal access. The cabinets shall also provide for the proper bonding and grounding of the telecommunications facilities and must comply with the current National Electric Code.



TELEPHONE RISER DIAGRAM

SCALE: N.T.S.



TV RISER DIAGRAM

SCALE: N.T.S.

PROJECT ADDRESS
ELDERLY SERVICE CENTER
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OWNER
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REGISTER No.
358-032-072-01

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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SIGNATURE

William Melendez Rivas
Puerto Rico

FILE
Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
TELECOMMUNICATIONS NOTES AND DIAGRAMS

DRAWING No.
NET 102

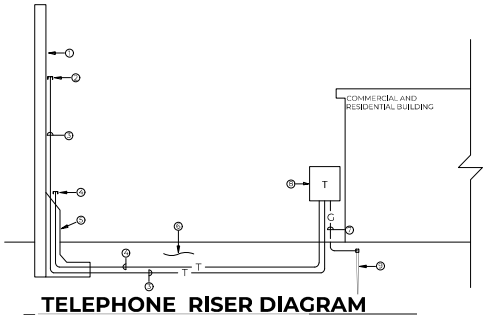
TELECOMMUNICATIONS GENERAL NOTES:

1. THE DEVELOPER OR HIS REPRESENTATIVES SHALL SUPPLY AND INSTALL ALL MATERIALS REQUIRED FOR THE TELECOMMUNICATIONS INFRASTRUCTURE INCLUDING BUT NOT LIMITED TO THE 1", 2" AND 4" DIAMETER CONDUITS SHOWN ON THE PRINTS.
2. THE 1" Ø CONDUITS SHALL BE PVC SCH 40 RODDED WITH 1/8" Ø NYLON ROPE WITH A MINIMUM TENSION RESISTANCE OF 300 LB.
3. THE 2" Ø PVC CONDUIT (FOR CATV DISTRIBUTION FACILITIES) AND THE 4" Ø (FOR TELEPHONE DISTRIBUTION FACILITIES) SHALL BE INSTALLED IN THE TELECOMMUNICATIONS EASEMENT. THE 2" Ø CONDUITS SHALL BE INSTALLED ON THE SIDEWALK SIDE OF THE TRENCH AND THE 4" Ø ON THE FARTHERMOST SIDE OF THE TRENCH FROM THE SIDEWALK (SEEN EASEMENT CONDUIT INSTALLATION DETAIL).
4. THE 2" Ø AND 4" Ø CONDUITS SHALL BE SCH 40 (MINIMUM) RODDED WITH 1/4" Ø NYLON ROPE WITH A MINIMUM BREAKING STRENGTH OF 500 LBS. AND SHALL BE TESTED WITH 1-5/8" AND 3-5/8" MANDRELS RESPECTIVELY.
5. ALL EXPOSED CONDUIT ENDS SHALL BE CAPPED WITH PVC END CAPS.
6. THE MINIMUM DEPTH OF THE CONDUITS PLACED ALONG THE EASEMENT AND SERVICE CONDUITS TO EACH RESIDENCE SHALL BE:
   a. 1" Ø CONDUITS 14" BELOW GROUND LEVEL
   b. 2" Ø CONDUITS 24" BELOW GROUND LEVEL
   c. 4" Ø CONDUITS 24" BELOW GROUND LEVEL
7. IN ORDER TO MAINTAIN THE PROPER FORMATION AND SEPARATION OF THE CONDUIT RUN, PLASTIC CONDUIT SPACERS SHALL BE INSTALLED EVERY SIX FEET OR AS SPECIFIED BY THE MANUFACTURER.
8. WHEN EXPOSED TO VEHICULAR TRAFFIC (HIGHWAY, STREET, CARPORT CROSSINGS AND PARKING AREAS) CONDUITS SHALL BE INSTALLED AT A DEPTH BETWEEN 30" AND 36" MEASURED FROM THE SURFACE OF THE PAVEMENT AND SHALL BE ENCASED IN CONCRETE WITH A MINIMUM RESISTANCE OF 3000 LBS. PER SQUARE INCH (3000 PSI).
9. TRENCH BACKFILLING SHALL BE PERFORMED WITH SELECTED MATERIALS FREE OF LARGE STONES AND OTHER CONTAMINANTS SUCH AS SCRAPS OF WOOD, ASPHALT, CONCRETE PAVEMENT ETC. BACKFILL SHALL BE COMPACTED TO 95% IN 6 INCH LAYERS BY MEANS OF A TAMPER WITH THE FIRST 12 INCHES TAMPED USING LIGHTWEIGHT EQUIPMENT.
10. A SIX INCH WIDE ORANGE WARNING RIBBON ("TERRA TAPE" #42-0007) SHALL BE INSTALLED AT A DEPTH OF 12" BELOW GROUND LEVEL ABOVE THE CONDUITS AND ALONG THE WHOLE CONDUIT ROUTE.
11. THE DEVELOPER OF HIS REPRESENTATIVES SHALL CLEARLY IDENTIFY ALL CONDUIT ENDS (INCLUDING BUT NOT LIMITED TO SPARE OR RESERVE CONDUITS) WHEN THE USE OF DISTRIBUTION OR SPLICE BOXES HAS NOT BEEN RECOMMENDED. SEE DETAIL OF "WOOD STAKE".
12. THE 2" Ø CONDUITS BENDS SHALL NOT BE LESS THAN 90° AND SHALL HAVE A MINIMUM RADIUS OF 36". THE CONDUITS SHALL LIMITS TO TWO CURVES OF 90° PER SECTION OF CONDUITS.
13. GENERALLY 3'-X 3'-X 3'-0" (4' X 4' X 4' DISTRIBUTION BOXES AS WELL AS 7'-X 4'-6" X 4' SPLICED BOXES SHALL BE PLACED FOR TELECOMMUNICATIONS SERVICES (TELEPHONE FACILITIES) AS INDICATED ON PRINTS. IF NECESSARY THE INSTALLATION OF BOXES ON EXPOSED TRAFFIC AREAS OF VEHICLES SHALL BE PLACED A MANHOLE DESIGNED FOR AREAS FOR PREVENT THAT THE ACCESS TOP AND THE STRUCTURE WILL DEFORM, EQUAL OR SIMILAR TO "POWER POLES MH 6'X 6' X 7'.
14. DISTRIBUTION BOXES SHALL BE PLACED IN EASEMENT COINCIDING WITH THE DISTRIBUTION POINTS OF THE TELECOMMUNICATIONS FACILITIES. THESE BOXES AS WELL AS DISTRIBUTION POINTS SHALL BE LOCATED TWO FEET FROM THE PROPERTY LINE BETWEEN LOTS SO AS NOT TO INTERFERE WITH ANY ENTRANCE (CARPORT OR SIDEWALK).
15. DISTRIBUTION BOXES AND SPLICES BOXES SHALL BE:
   a. PREFABRICATED WITH STEEL REINFORCED CONCRETE (EQUAL OF SIMILAR TO POWER POLES INC.)
   b. CAST IN PLACE WITH STEEL REINFORCED CONCRETE.
   c. PREFABRICATED WITH POLYMER CONCRETE (EQUAL OR SIMILAR TO QUAZITE ®)- ONLY FOR USE IN CASES OF DISTRIBUTION OR CONNECTIONS POINTS FOR THE CABLE-V SERVICES WHERE EXISTS SPACES LIMITATIONS, WHERE ITS SIZE DON'T WILL EXCEED (18" X 24" X 18") AND WILL BE LOCATED ON NOT EXPOSED AREAS TO VEHICLES TRAFFIC
16. 16. ALL CONDUITS WHETHER OR NOT IN USE SHALL BE SEALED IN DISTRIBUTION BOXES AND SPLICE BOXES EQUAL OR SIMILAR TO "DUCT SEALING KIN 4416 MANUFACTURED BY 3M ®".
17. 2" Ø CONDUITS FOR CABLE TELEVISION (CATV) DISTRIBUTION FACILITIES IN RESIDENTIAL PROJECTS, WITH ONE FAMILY HOMES (SINGLE HOMES, ROW HOUSES, PATIO HOUSES TYPE), SHALL NOT BE TERMINATED AT TELECOMMUNICATIONS DISTRIBUTION BOXES. THESE CONDUITS, AS WELL AS THE 1" Ø CONDUITS FOR CATV SERVICE DROPS, SHALL BE END CAPPED AND LEFT AT CATV DISTRIBUTION POINT LOCATED IN THE PLANTING STRIP (PREFERABLY NEXT TO LIGHT POSTS) AS INDICATED ON PRINTS.
18. THE EXTERIOR METALLIC BOXES (4' X 4' X 2-1/8" MINIMUM), FOR TELECOMMUNICATIONS SERVICE DROPS (TELEPHONE AND CATV), SHALL BE INSTALLED ADJACENTLY ON ONE OF THE LOWING UNITS WALLS CONVENIENTLY LOCATED SO AS TO PROVIDE EASY UNHINDERED ACCESS.
19. THE CONDUIT, THROUGH WHICH THE GROUND WIRE FOR THE EXTERIOR SERVICE DROP METALLIC BOXES (4' X 4' X 2-1/8"), SHALL BE INSTALLED, SHALL COME OUT FROM THE LIVING UNIT WALL AT A DEPTH OF SIX INCHES BELOW GROUND LEVEL.
20. THE ELECTRICAL GROUNDING OF THE TELECOMMUNICATIONS SERVICE DROPS WILL BE ACHIEVED WITH 1 # 6 AWG AND A 8' X 5/8" COPPERWELD GROUND ROD AND WILL BE ACCORDING THE "NEC" IN USE.
21. ALL TELECOMMUNICATIONS SYSTEMS (TELEPHONE AND CATV) SHALL BE BONDED AND GROUNDED AT ALL POINTS ACCORDING TO THE "NEC" IN USE.
22. NO MORE THAN TWO 90° BENDS SHALL BE ALLOWED IN THE CONDUITS CONNECTING THE EXTERIOR SERVICE DROP METALLIC BOXES AND THE INTERIOR SERVICES BOXES.
23. THE INTERIOR RESIDENTIAL TELECOMMUNICATIONS SERVICE DISTRIBUTION CONDUITS SHALL HAVE A MINIMUM 3/4" INSIDE DIAMETER AND EACH LIVING UNIT SHALL BE PROVIDED WITH TELECOMMUNICATIONS SERVICES (TELEPHONE AND CATV) OUTLETS IN THE KITCHEN, LIVING ROOM AND EACH OF THE ROOMS.
24. WHEN REQUIRED, GENERALLY AT WALK-UPS, THE MINIMUM SIZE FOR TELECOMMUNICATIONS CABINETS (TELEPHONE AND CATV) SHALL BE 36" X 24" X 6" (TELEPHONE) AND 16" X 36" X 4" (CATV) AND SHALL SERVE NO MORE THAN 16 UNITS. THE CABINETS SHALL BE EQUIPPED WITH A 3/4" THICK PLYWOOD BACKBOARD, A HINGED DOOR WITH LATCH AND KEY, AND SHALL HAVE COMPLETE FRONTAL ACCESS. THE CABINETS SHALL ALSO PROVIDED FOR THE PROPER BONDING AND GROUNDING OF THE TELECOMMUNICATIONS FACILITIES.
25. WALK-UP PROJECTS SHALL HAVE INDEPENDENT TELECOMMUNICATIONS CABINETS FOR TELEPHONE AND CATV SERVICES. THESE CABINET SHALL BE CONNECTED TO THE NEAREST SPLICE BOX BY MEANS OF 2-2" Ø PVC CONDUITS. THE MINIMUM SIZE OF THE SPLICE BOX SHALL BE 7' X 4'-6" X 4' AND MAY BE JOINTLY USED FOR TELEPHONE AND CATV SERVICES.
26. RESIDENTIAL BUILDINGS (MULTI-STORY APARTMENT BUILDINGS OTHER THAN WALK UPS HIGH-RISE CONDOMINIUMS, ETC.) SHALL HAVE INDEPENDENT MAIN DISTRIBUTION CABINETS FOR TELEPHONE AND CATV SERVICES. THE MAIN DISTRIBUTION CABINETS, GENERALLY CONSISTING OF AN 8' X 4' X 3/4" TREATED PLYWOOD PANEL PAINTED WITH TWO COAST OF FIRE RETARDANT PAINT, WILL BE PLACED IN A TELECOMMUNICATIONS CLOSET OR ROOM. THE MAIN DISTRIBUTION PANELS FOR TELEPHONE AND CATV SERVICE SHALL BE CONNECTED VERTICALLY TO SATELLITE CABINETS (EACH SERVING A MAXIMUM OF 16 UNITS) BY MEAN OF 2-4" Ø AND 2-2" Ø PVC CONDUITS RESPECTIVELY.
27. ALL APARTMENTS SHALL BE CONNECTED TO EACH OF THEIR CORRESPONDING DISTRIBUTION CABINETS (TELEPHONE AND CATV) BY MEAN 1-1" Ø CONDUIT.
28. ENTRANCE FACILITIES FOR RESIDENTIAL BUILDINGS SHALL CONSIST OF A MINIMUM OF 2-4" Ø FOR TELEPHONE SERVICE AND 2-2" Ø PVC CONDUITS FOR CATV SERVICE. THE CONDUITS SHALL CONNECT THE MAIN DISTRIBUTION TERMINALS AND THE DESIGNATED BUILDING TELECOMMUNICATION POINT OF CONNECTION. WHEN A BUILDING'S TELECOMMUNICATIONS POINT OF CONNECTION IS A SPLICE BOX IT SHALL HAVE A MINIMUM SIZE OF 7' X 4'-6" X 4' AND MAY BE JOINTLY USED FOR TELEPHONE AND CATV SERVICES.
29. ON RESIDENTIAL AND COMMERCIALS BUILDINGS, EACH CABINET OR PANEL SHALL HAVE A COMPONENT FOR CONNECT TO GROUND THE TELECOMMUNICATIONS FACILITIES WITH 1 # 6 AWG AND 8' X 5/8" GROUND ROD ACCORDING TO THE "NEC" IN USE. THE SYSTEM INSTALLATION SHALL BE RESPONSIBILITY OF THE DEVELOPER.

SPECIAL NOTES:

30. THE DEVELOPER IN COMPLIANCE WITH SECTION 19.04 OF THE PUERTO RICO PLANNING BOARD'S "REGLAMENTO DE LOTIFICACIÓN Y URBANIZACIÓN (REGLAMENTO DE PLANIFICACIÓN 3) REVISADO" SHALL TRANSFER TO THE P.R. TELECOMMUNICATIONS REGULARITY BOARD (RTPR), IN A COORDINATED MANNER AND BY MEANS OF A PUBLIC DEED, THE RIGHT OF WAY DEPICTED ON THESE DRAWINGS, REQUIRED TO PROVIDED TELECOMMUNICATIONS SERVICES (TELEPHONE AND CATV) TO THIS PROJECT.
31. THE PUERTO RICO TELECOMMUNICATIONS REGULATORY BOARD (JRTPR) MAY ISSUE PARTIAL ENDORSEMENTS FOR SINGLE FAMILY RESIDENTIAL PROJECTS (SINGLE FAMILY HOMES, TOWNHOUSES, PATIO HOUSES, ETC.) SO THAT THE DEVELOPER CAN DELIVER PORTIONS OF THE PROJECT AS THEY ARE COMPLETE. ONCE THE PROJECT IS COMPLETE THE DEVELOPER SHALL COMPLY WITH THE PROCEDURE SPECIFIED IN SECTION 5.02.6 OF THE JRTPR'S "REGLAMENTO PARA ENDOSO DE SERVIDUMBRES E INFRAESTRUCTURA" RELATED TO FINAL ENDORSEMENTS.
32. THE DEVELOPER SHALL ALLOW TELECOMMUNICATIONS SERVICE PROVIDERS (TELEPHONE AND CATV), DULY AUTHORIZED BY THE JRTPR TO PROVIDE SAID SERVICES, TO INSTALL THEIR DISTRIBUTION FACILITIES IN A COORDINATED AND ORDERLY MANNER IN THOSE PORTIONS OF THE PROJECT FOR WHICH A PARTIAL ENDORSEMENT HAS BEEN ISSUED.
33. THE DEVELOPER SHALL COORDINATE WITH TELECOMMUNICATIONS SERVICE PROVIDERS (TELEPHONE AND CATV) AND THE PUERTO RICO ELECTRICAL POWER AUTHORITY (PREPA) THE INSTALLATION OF RISERS, THE CONNECTION OF CONDUITS OR THE ACCESS TO THEIR FACILITIES.
34. THE DEVELOPER SHALL COORDINATE WITH THE TELECOMMUNICATIONS SERVICE PROVIDERS (TELEPHONE AND CATV) AND WITH ANY OTHER PUBLIC OR PRIVATE ORGANIZATION WHOSE FACILITIES AFFECT THE CONSTRUCTION OF THE PROJECT.
35. THE DEVELOPER SHALL ASSIGN A ENGINEER OR ARCHITECT AS PROJECT INSPECTOR, THAT CERTIFICATES THE CONSTRUCTION WORKS, USING THE JRTPR P-102 FORMULARY; AND SHALL OBTAIN THE ACCEPTATION OF THE JRTPR BEFORE SUBMIT THE PERMISSION OF USE TO THE AGENCY OF ADMINISTRATION REGULATIONS AND PERMISSIONS (ARPE).
36. ON COMMERCIAL BUILDINGS IS REQUIRED TWO MAIN DISTRIBUTION CABINETS FOR TELECOMMUNICATIONS ONE FOR TELEPHONE SERVICES AND OTHER TO CATV SERVICES. THESE CABINETS WILL BE LOCATED IN A ROOM OR DESIGNATED AREA FOR TELECOMMUNICATIONS. SHALL BE ACCORDING TO THE NEXT SPECIFICATIONS:

   a. MAIN DISTRIBUTION CABINETS CONSISTING OF AN 8' X 4' X 3/4" TREATED PLYWOOD PANEL PAINTED WITH TWO COAST OF FIRE RETARDANT PAINT.
   b. METAL CABINETS WITH A MINIMUM SIZE OF 36" X 24" X 6" (TELEPHONE) AND 36" X 36" X 6" (CATV). THE CABINETS WILL BE INCLUDED WITH A TREATED PLYWOOD OF 3/4" OF THICKNESS, HANDLE WITH SECURITY LOCK AND FRONT ACCESS.

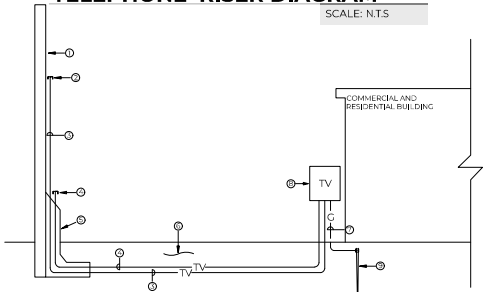


TELEPHONE RISER DIAGRAM

SCALE: N.T.S

TELEPHONE RISER DIAGRAM
LEGEND:

1. EXISTING POLE TO BE USED AS THE TELECOMMUNICATIONS POINT OF CONNECTION AS PER SITE DRAWINGS.
2. END BELL BUSHING WITH DUCT SEAL, 4".
3. TELEPHONE MAIN CONDUIT CONSISTING OF 1 - 4" PVC SCHEDULE 40 CONDUIT.
4. SPARE CONDUIT, PVC SCHEDULE 40, 4" PVC.
5. TELECOMMUNICATIONS RISER CONCRETE BASE AS PER DETAILS.
6. TELECOMMUNICATIONS WARNING RIBBON INSTALLED AS PER TELECOMMUNICATIONS TRENCH DETAIL.
7. MAIN TELEPHONE TERMINAL CABINET GROUND CONNECTION TO GROUND ROD CONSISTING OF 1 # 6 AWG THW IN 3/4" RGS CONDUIT..
8. MAIN TELEPHONE TERMINAL CABINET CONSISTING OF 24" X 36" X 4" NEMA 3R CABINET WITH HINGED COVER AND WOOD BACKBOARD INSTALLED AT 9'-0" AT CENTER A.F.F.
9. COPPER CLAD CLAD ROD, 5/8" X 8'-0".

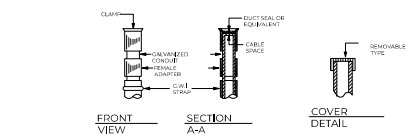


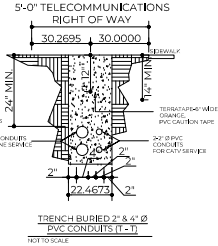
TV RISER DIAGRAM

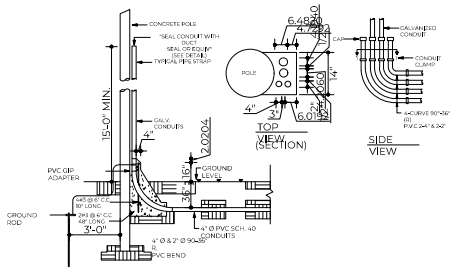
SCALE: N.T.S

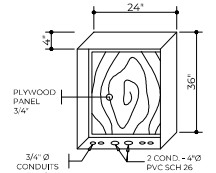
T.V. RISER DIAGRAM
LEGEND:

1. EXISTING POLE TO BE USED AS THE TELECOMMUNICATIONS POINT OF CONNECTION AS PER SITE DRAWINGS.
2. END BELL BUSHING WITH DUCT SEAL, 2"
3. CABLE T.V. MAIN CONDUIT CONSISTING OF 1 - 2" PVC SCHEDULE 40 CONDUIT.
4. SPARE CONDUIT, PVC SCHEDULE 40, 2" PVC.
5. TELECOMMUNICATION RISER CONCRETE BASE AS PER DETAILS.
6. TELECOMMUNICATION WARNING RIBBON INSTALLED AS PER TELECOMMUNICATIONS TRENCH DETAIL.
7. MAIN T.V. TERMINAL CABINET GROUND CONNECTION TO GROUND MAT CONSISTING OF 1 # 6 AWG THW IN 3/4" RGS CONDUIT.
8. MAIN T.V. TERMINAL CABINET CONSISTING OF 24" X 36" 4" NEMA 3R CABINET WITH HINGED COVER AND WOOD BACKBOARD INSTALLED AT 5'-0" AT CENTER A.F.G.
9. COPPER CLAD GROUND ROD, 5/8" X 8'-0".

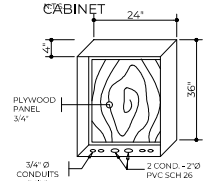






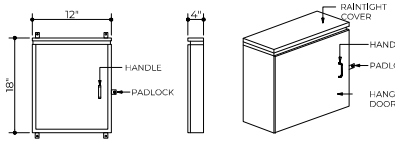


MAIN TELEPHONE CABINET



MAIN CATV CABINET

CABINETS WILL BE EQUIPPED WITH 3/4" PLYWOOD BACKBOARD, A HINGE DOOR WITH LATCH AND KEY AND SHALL HAVE COMPLETE FRONTAL ACCESS. THE CABINETS SHALL ALSO PROVIDE FOR THE PROPER BONDING AND GROUNDING OF THE TELECOMMUNICATIONS FACILITIES.



FRONT VIEW | SIDE VIEW | SOMETRIC VIEW

SPECIFICATIONS:

1. CABINET MUST COMPLY WITH NEMA SPECIFICATIONS.
2. MATERIAL CLEANED AND DEGREASED PRIOR TO PAINT.
3. FINISH: ANSI #61 DRY, 1.5SE115-U GRAY POLYESTER POWER COATING.
4. FLUSH WITH PLYWOOD BACKBOARD 3/4" THICK.
5. MATERIAL TO #12 GALVANIZED STEEL 304.
6. MINIMUM STANDAROS TO NEMA TYPE 2 DESIGNATION SPECIFICATIONS.

TELEPHONE RISER DETAIL

SCALE: N.T.S

TELECOMMUNICATIONS DETAILS

SCALE: N.T.S.

PROJECT ADDRESS
ELDERLY SERVICE CENTER
CALLE FERROCARRIL #11 BO. PUEBLO,
LAJAS, P.R. 00667

GPS LATITUDE/LONGITUDE:
18.04941608, -67.05761236

OWNER
LAJAS MUNICIPALITY

REGISTER No.
358-032-072-01

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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IMPORTANT NOTES TO THE CONTRACTOR:
CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE PROCEEDING WITH WORK. IF ANY DISCREPANCIES, ERRORS OR OMISSIONS SHOULD BE ENCOUNTERED ON PLANS, CONTRACTOR SHALL NOTIFY THE ENGINEER BEFORE ANY PART OF THE WORK IS STARTED SO THAT PROPER CORRECTIONS ARE MADE. IF ENGINEER IS NOT NOTIFIED PRIOR TO COMMENCING OF THE WORK, ALL DESIGNS AND DRAWINGS HEREIN AND PRINTS ISSUED BY THIS ENGINEER ARE THE PROPERTY OF THE ENGINEER AND SHALL NOT BE REUSED ON ANY OTHER LOCATION EXCEPT THE ONE FOR WHICH THEY EXPRESSLY DESIGNED. IF THESE DRAWINGS OR ANY PART THEREOF IS REPRODUCED WITHOUT THE CONSENT OF THE ENGINEER, THE PERSON WHO IS DOING WILL BE INDEBTED TO THE ENGINEER FOR HIS FULL COMMISION. CONTRACTOR SHALL NOT USE FOR CONSTRUCTION PURPOSES ANY DRAWINGS THAT WERE ADVANCE TO MM PRIOR TO THE BEGINNING OF CONSTRUCTION. ALL PLANS BEING USED BY CONTRACTOR SHOULD HAVE A LABEL SAYING "FOR CONSTRUCTION ONLY" SIGNED AND SEALED BY THE ENGINEER.

CERTIFICATION
I, WILLIAM MELENDEZ RIVAS, LIC. 16383, CERTIFY THAT I AM THE PROFESSIONAL WHO MADE, DESIGNED OR PREPARED THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY SOURCES OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS WAS FULLY DEMOLED WITH THE PROVISIONS OF LAW 96-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY" AND WITH THE "LAW NO. 89 OF MAY 15, 1958, AS AMENDED; ACT NO. 96 OF JULY 6, 1978, AS AMENDED, AS APPLICABLE). I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY IGNORANCE OR NEGLIGENCE EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE DGPS.

INGENIUM PROFESSIONAL GROUP
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SIGNATURE

William Melendez Rivas, Lic. 16383, Puerto Rico

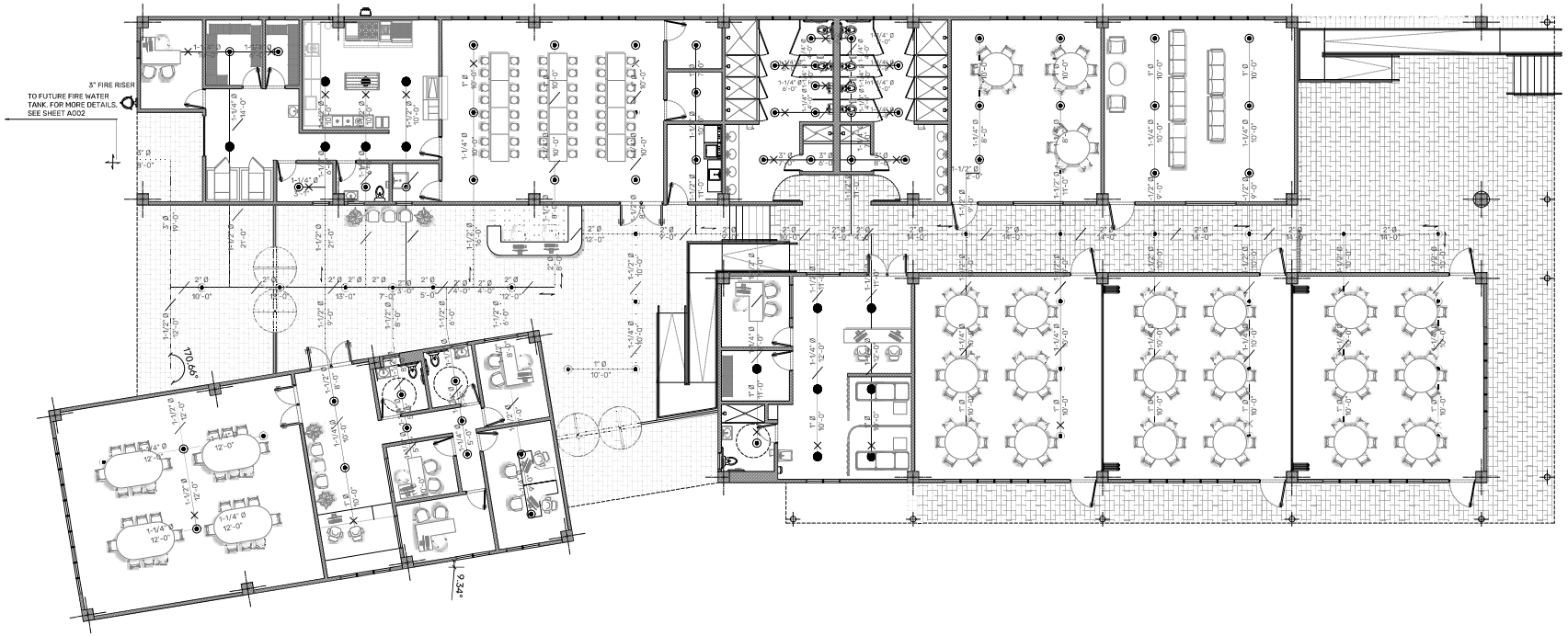
FILE
Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
TELECOMMUNICATIONS DETAILS

DRAWING No.
NET103

PAGE: 79/89

F I R E P R O T E C T I O N P L A N



FIRE PROTECTION GENERAL NOTES:

1. ALL FIRE MAINS, SEISMIC BRACING AND HANGER SUPPORTS FINAL LOCATION WILL BE FIELD COORDINATED.
2. ALL SPRINKLER WORK TO BE IN ACCORDANCE WITH NFPA NO. 13 (LATEST EDITION).
3. FLUSHING CONNECTION TO BE PROVIDED AT THE END OF EACH CROSS MAIN.
4. SHOP DRAWINGS OF THE COMPLETE INSTALLATION WILL BE SUBMITTED TO PROJECT DESIGN TEAM.
5. SYSTEM TO BE TESTED FOR 2 HOURS AT 200 PSI WITHOUT LEAKS.
6. ALL PIPING 1"-2" WILL BE ASTM A53/A-135 SCH. 40, WITH 175 PSI WORKING PRESSURE SCREWED FITTINGS.
7. ALL PIPING 2-1/2" DIAMETER AND LARGER WILL BE ASTM A53/A-135 SCH. 40 WITH 175 PSI WORKING PRESSURE WELDED AND OR GROOVED FITTINGS.
8. ALL HANGER AND SUPPORTS TO BE UL/FM APPROVED.
9. ALL THREADED RODS TO BE 3/8" DIAMETER FOR PIPE HANGING IN SIZE FROM 1" TO 4" ROD FOR 6" PIPE TO BE 1/2" DIAMETER.
10. ALL MAIN(S) BRANCH LINES OUTLETS TO BE SHOP WELDED IN ACCORDANCE/ NFPA 13 (LATEST EDITION)

LEGEND:

- Upright Sprinkler Head
- Pendant Sprinkler
- Cross Main
- Branch Lines
- Fire Hose Cabinet
- Four Way Bracing
- Longitudinal Bracing
- Lateral Bracing
- Hanger

FIRE PROTECTION PLAN

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

PROJECT ADDRESS

ELDERLY SERVICE CENTER
CALLE FERROCARRIL #11 BO. PUEBLO,
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CERTIFICATION

I, WILLIAM MELENDEZ RIVAS, LIC. 16,883, CERTIFY THAT I AM THE PROFESSIONAL WHO MADE, DESIGNED OR PREPARED THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 14-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY" AND WITH THE [LAW NO. 319 OF MAY 15, 1938, AS AMENDED; ACT NO. 96 OF JULY 6, 1976, AS AMENDED; AS APPLICABLE]. I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY IGNORANCE OR NEGLIGENCE EITHER BY ME, MY AGENTS OR EMPLOYEES OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE OGPE.

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SIGNATURE

William Melendez Rivas
Ingeniero
Licenciado
Lic. 16,883
Puerto Rico

FILE

Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE

FIRE PROTECTION PLAN

DRAWING No.

FP100

GENERAL NOTES & DESIGN CRITERIA

1. THIS DRAWINGS SHOW THE CONCEPT AND INTENT OF THE DESIGN AND GENERAL ARRANGEMENT TO FULFILL THE REQUIREMENTS OF THE UNDERWRITER AND CODE. IT IS NOT THE INTENTION TO SUBSTITUTE AND/OR WAIVE THE REQUIREMENTS OF SHOP/FABRICATION AND INSTALLATION DRAWINGS TO BE SUBMITTED BY THE FIRE PROTECTION CONTRACTOR FOR FINAL APPROVAL BY UNDERWRITER. THEREFORE, THESE DRAWINGS DOES NOTE SHOW ALL DETAILS OF CONSTRUCTION WHICH ARE THE RESPONSIBILITY OF THE FIRE PROTECTION CONTRACTOR TO FULLY COMPLY WITH CODES AND UNDERWRITER REQUIREMENTS.

2. DESIGN (SHOP DRAWING AND HYDRAULIC CALCULATIONS), FABRICATION, INSTALLATION AND TESTING SHALL CONFORM WITH NFPA #13, #14, #20, #24 LATEST EDITION LOCAL BUILDING CODE, FIRE DEPARTMENT OF PUERTO RICO PREVENTION CODE AND INSURANCE COMPANY REQUIREMENTS.

3. SHOP DRAWINGS AND HYDRAULIC CALCULATIONS SHALL BE STAMPED AND SIGNED BY PROFESSIONAL ENGINEER REGISTERED IN PUERTO RICO.

4. IT IS REQUIRED THAT HYDRAULIC CALCULATIONS TO BE SUBMITTED BY SPRINKLER CONTRACTOR SHALL DEMONSTRATE A PERFORMANCE (TOTAL SYSTEM FLOW AND PRESSURE) AT BASE OF RISER EQUAL OR BETTER THAN THE EXPECTED FOR THE SPRINKLER SYSTEM SHOWN IN THESE DRAWINGS.

5. CONTRACTOR MUST PERFORM A HYDRANT FLOW TEST OF THE CITY'S WATER FLOW TO SEE IF THE CITY IS CAPABLE OF ENERGIZING THE PROPOSED SPRINKLER SYSTEM, OR A WATER TANK AND FIRE PUMP WOULD HAVE TO BE INSTALLED .

6. ALL PIPE CAN BE A-53 TYPE B, WITH SEAM.

7. ALL PIPING 1" @ 2" DIAMETER SHALL BE BLACK CARBON STEEL ASTM A- 53, SCH. 40, WITH 175 PSI WORKING PRESSURE SCREWED CAST OR MALLEABLE FITTINGS.

8. PIPING 2-1/2" AND LARGER SHALL BE BLACK CARBON STEEL ASTM A- 53, SCH. 10, WITH WELDED OUTLET AND GROOVE END FITTINGS.

9. FIRE PUMP INSTALLATION SHALL CONFORM NFPA 520 LATEST EDITION.

10. UNDERGROUND PIPING INSTALLATION SHALL CONFORM NFPA #24 LATEST EDITION.

11. ALL MATERIAL AND DEVICES SHALL BE U.L. LISTED AND F.M. APPROVED.

12. ALL EXPOSED PIPE TO BE PAINTED WITH ONE COAT OF PRIMER AND TWO FINISH COAT OF RED ENAMEL.

13. DESIGN CRITERIA:
13.1.AREAS: LIVING UNITS AND OTHER (LIGHT HAZARD) AREAS
-DENSITY: 0.10 GPM/SQ.FT
-DESIGN AREA: 1500 SQ.FT
TOTAL = 0.10 GPM/1500 SQ.FT = 150gpm.

-HOSE ALLOWANCE: 100gpm.
-SAFETY FACTOR: 30gpm.
TOTAL = 280gpm.

-Tiempo de 30 minutos.
-Total, de Agua en caso de necesitar Tanque: 9,000galones.
-Tipo de Cabecilla: Standard Upright or Pendant. ½ NPT 5.6K 165 Dgs. F. 175 psi Rating.
-Tuberia Carbon Steel A-53 tipo B con costura.
-Hangers FM approved, UL Listed.
-Earthquake Bracing According to NFPA 13 Latest Ed.

14. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND HYDRAULIC CALCULATIONS OF THE COMPLETE SPRINKLER SYSTEM TO THE APPROVING AUTHORITY BEFORE INSTALLATION. NO INSTALLATION SHALL PROCEED WITHOUT THE ENGINEERS WRITTEN APPROVAL.

15. NO CHANGES TO THE QUANTITY OF SPRINKLERS, DIAMETERS OF PIPING OR CONCEPT OF THE PROJECT WILL BE ALLOW UNTIL WRITTEN APPROVAL.

16. CONTRACTOR SHALL COORDINATE THE FINAL LOCATION OF SPRINKLER HEADS IN ORDER TO AVOID OBSTRUCTIONS WITH DUCT WORK, A.C. UNITS, PIPES, LIGHTING FIXTURES AND SO ON, IN ACCORDANCE WITH NFPA #13, LATEST EDITION.

17. IT WILL BE SPRINKLER CONTRACTOR RESPONSIBILITY TO LAYOUT THE LOCATION FOR EARTHQUAKE BRACING, PERFORM DESIGN LOADS CALCULATIONS,PREPARE INSTALLATION DETAILS AND SIZE THE BRACING COMPONENTS FOR THE DESIGN LOADS. THIS CONTRACTOR SHALL SUBMIT EVIDENCE THAT SUCH COMPONENTS ARE ADEQUATE FOR THE EXPECTED LOADS.THIS CONTRACTOR SHALL FOLLOW THE RECOMMENDATIONS OUTLINED IN THE FACTORY MUTUAL DATA SHEET 2-8 "EARTHQUAKE PROTECTION FOR WATER -BASED FIRE PROTECTION SYSTEMS".

18. ALL CONTROL VALVES SHALL BE SUPERVISED.

19. ALL SUPERVISORY AND FLOW SWITCHES SHALL BE CONNECTED TO THE FIRE ALARM PANEL.

20. AUDIBLE AND VISIBLE ALARMS POWERED BY A SOURCE OTHER THE ENGINE STARTING BATTERIES AND NOT EXCEEDING 125 VOLTS SHALL BE PROVIDED AT THE FIRE ALARM PANEL ON GUARD HOUSE FOR ALL FIRE PUMP EQUIPMENT ALARMS AND SIGNALS.

21. FLOOR: MIN 4 1/4 IN.(114 MM) THICK LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE, MIN 3-HOUR FIRE RESISTANCE RATING.NOMINAL 6 1/4 IN.(159 MM) DIA. OPENING.

22. NON-METALLIC PIPE.NOMINAL 4 IN.(102 MM) DIA.SCHEDULE 40 PVC PIPE.

23. FIRE STOP COMPONENTS:

23.1.FOIL TAPE SINGLE LAYER OF NOMINAL 4 MIL (0.1 MM) THICK PRESSURE- SENSITIVE ALUMINUM FOIL TAPE APPLIED TO PVC PIPE TO PREVENT CONTACT WITH CAULK FILL MATERIAL (ITEM 3C).

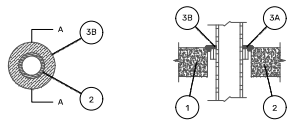
23.1.1.THE 3M CO 3M CENTER SAINT PAUL MN 55144 3M BRAND T-49 ALUMINUM FOIL TAPE.

23.2. FILL MATERIAL, INTUMESCENT ELASTOMERIC MATERIAL FACED ON ONE SIDE WITH ALUMINUM FOIL,SUPPLIED IN STRIPS NOMINAL 1/4 IN.(6 MM) THICK BY MIN.2 IN.(51 MM) WIDE STRIPS ARE WRAPPED TIGHTLY AROUND NON-METALLIC PIPE, FOIL SIDE OUT,TO FILL ANNULAR SPACE AROUND PIPE.TWO LAYERS OF WRAPS REQUIRED TO FILL THROUGH OPENING TO 4 IN.(102 MM) DEPTH. EACH LAYER INSTALLED WITH BUTTED SEAMS STAGGERED IN SUCCESSIVE LAYERS. EACH LAYER SECURELY BOUND USING 18 AWG STEEL TIE WIRE OR ALUMINUM FOIL TAPE AND SLID INTO OPENING UNTIL TOP EDGE OF WRAP IS FLUSH WITH TOP SURFACE OF FLOORCUT NAILS ARE THEN DRIVEN VERTICALLY BETWEEN FIRST AND SECOND WRAPS IN BOTTOM LAYER AT 90 INTERVALS AROUND THE SEAL (2 NAILS PER LOCATION).

23.2.1. THE 3M CO 3M CENTER SAINT PAUL MN 55144 FIRE BARRIER WRAP/STRIP FS-195.

23.3. FILL MATERIAL MIN 1/4 IN.(6.4 MM) THICKNESS CAULKING MATERIAL APPLIED TO EXPOSED EDGES OF TOP LAYER OF WRAP STRIP (ITEM 3B) AND TO FILL ALL GAPS AT INTERFACE OF WRAP STRIP AND CONCRETE.

23.3.1. THE 3M CO 3M CENTER SAINT PAUL MN 55144 FIRE BARRIER CAULK CP 255/L OR PUTTY 303.



01 FIRE STOP DESIGN 34
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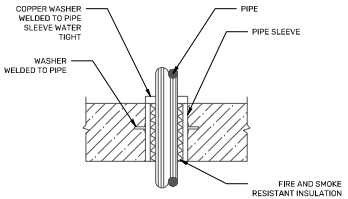

04 PIPE SLEEVE DETAIL
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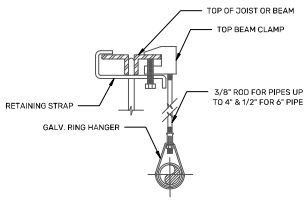
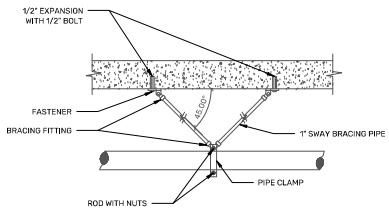
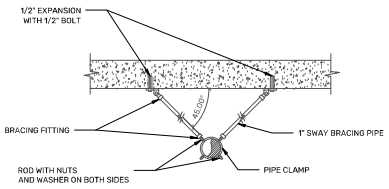


07 CLAM & HANGER
SCALE: N.T.S.



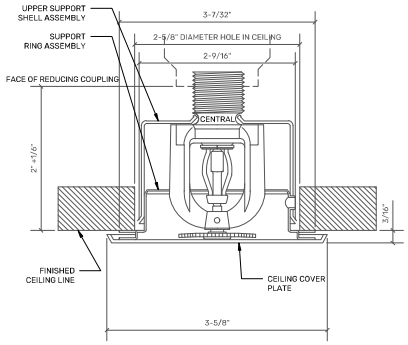
CONTRACTOR HAVE TO PERFORM DESIGN LOAD CALCULATIONS.

02 LONGITUDINAL EARTHQUAKE BRACING FOR CONCRETE SLAB
SCALE: N.T.S.

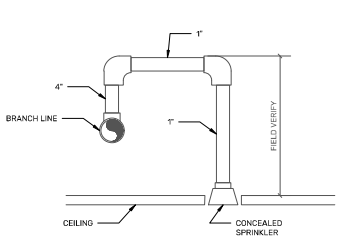


CONTRACTOR HAVE TO PERFORM DESIGN LOAD CALCULATIONS.

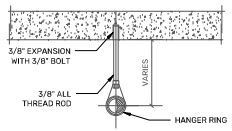
05 LATERAL EARTHQUAKE BRACING FOR CONCRETE SLAB
SCALE: N.T.S.



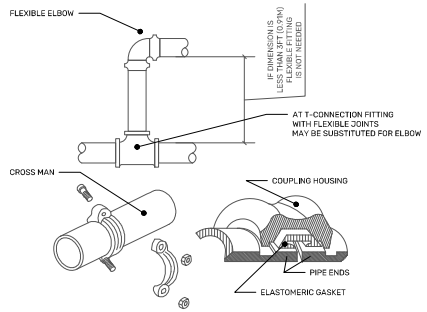
08 CONCEALED SPRINKLER HEAD
SCALE: N.T.S.



03 BELOW CEILING SPRINKLER DETAIL
SCALE: N.T.S.



06 HANGER FOR CONCRETE SLAB
SCALE: N.T.S.



09 SHORT RISER & FLEXIBLE PIPE COUPLING
SCALE: N.T.S.

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REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D

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CERTIFICATION

I, WILLIAM MELENDEZ RIVAS, LIC. 16,882, CERTIFY THAT I AM THE PROFESSIONAL WHO MADE, DESIGNED OR PREPARED THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 14-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY" AND WITH THE LAW NO. 319 OF MAY 15, 1938, AS AMENDED; ACT NO. 96 OF JULY 6, 1978, AS AMENDED; AS APPLICABLE. I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY IGNORANCE OR NEGLIGENCE EITHER BY ME, MY AGENTS OR EMPLOYEES OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE OGPE.

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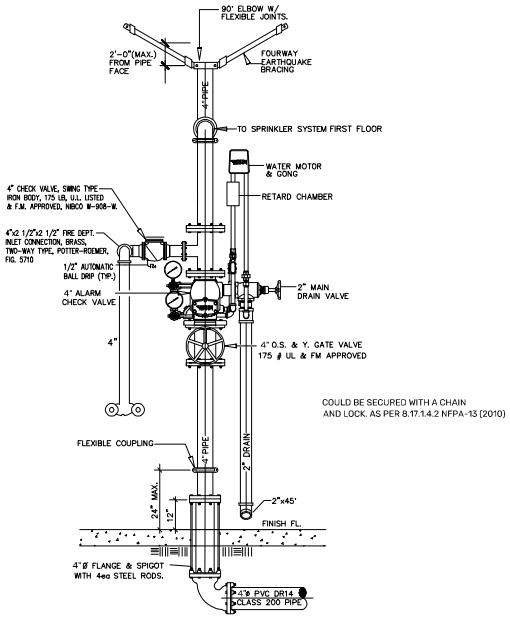
FILE

Dwg Name:	INGENIUM GROUP
Drawn by:	INGENIUM GROUP
Revised by:	ING. WILLIAM MELENDEZ
Plot Scale:	AS SHOWN
Progress Print:	

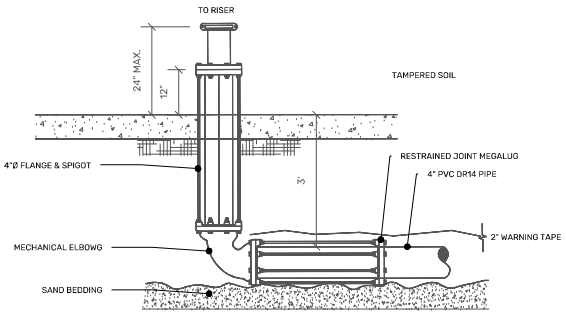
TITLE
FIRE PROTECTION_DETAILS

DRAWING No.
FP101



01 FIRE STOP DESIGN 34

SCALE: N.T.S.



UNDERGROUND PIPE DETAIL

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

SPECIFICATIONS

1. PIPE HANGERS
   INDOORS: MILD STEEL HANGER WITH MILD STEEL ROD; NOT UL LISTED.
   OUTDOOR: STEEL HANGER - FINISH: HOT DIP GALVANIZED; UL LISTED..

2. PIPE SUPPORT (WALL BRACKET)
   MANUFACTURER: ANVIL; MODEL: FIGURE 199; MATERIAL: CARBON STEEL; FINISH: HOT DIP GALVANIZED; SERVICE RECOMMENDED FOR THE SUPPORT OF LOADS FROM ABOVE OR BELOW BRACKET: APPROVALS: COMPLIES WITH FEDERAL SPECIFICATION A-A-1192A (TYPE 33), WW-H-171-E (TYPE 34), ANSI/MSS SP-69 AND MSS SP-58 (TYPE 33).

3. PIPE SUPPORT WITH U-BOLT
   MANUFACTURER: COOPER B-LINE
   MODEL: FIGURE B3090
   SIZE RANGE: -3/4" (20MM) THRU 36" (900MM) PIPE
   MATERIAL: -STEEL
   FUNCTION: -DESIGNED TO SUPPORT HORIZONTAL PIPE FROM FLOOR STANCHION:
   U-BOLTS AND HEX NUTS ARE PROVIDED TO HOLD PIPE SECURELY TO SADDLE TO COMPLETE FLOOR STANCHION, USE WITH B3088 PIPE STAND.
   APPROVALS: -CONFORMS TO FEDERAL SPECIFICATION WW-H-171E & A-A-1192A, TYPE 38 AND MANUFACTURERS STANDARDIZATION SOCIETY ANSI/MSS SP-69 & SP-58, TYPE 37.
   MAXIMUM TEMPERATURE: -750° F(399°)
   FINISH: -ELECTRO-GALVANIZED.

4. PIPE SUPPORT BASE STAND
   MANUFACTURE COOPER B-LINE
   MODEL: FIGURE B3088
   SIZE RANGE: 3/4" (20MM) THRU 6"(150MM) PIPE
   MATERIAL: STEEL
   FUNCTION: DESIGNED AS AN UNTHREADED BASE STAND FOR PIPE SUPPORTS B3090
   FINISH: ELECTRO-GALVANIZED.
   SERVICE FOR ALTERNATIVE FINISHES AND MATERIALS.
   ORDER BY: PART NUMBER, HEIGHT AND FINISH.

5. SPRINKLER SYSTEM PIPE
   BLACK STEEL - SCH 40- PER ASTM/ANSI A53 AND ASTM A795
   JOINING METHOD: THREADED, WELDED. FLANGED AND GROOVED.

6. FIRESTOP SEALANT (USED WHEN SPRINKLER PIPES PENETRATE WALLS SEPARATING ROMMS)
   MANUFACTURER: HILTI; MODEL: CFS-S SIL GG.
   A SILICONE BASED FIRESTOP SEALANT THAT PROVIDES MAXIMUM MOVEMENT IN FIRE-RATED JOINTS, AND SEALS THROUGH-PENETRATION APPLICATIONS.
   CHEMICAL BASIS: NEUTRAL ELASTIC SILICONE, DENSITY, APPROX. 1.4 G/CM^3; COLOR: AVAILABLE IN RED, WHIRE, AND GRAY (WHITE TO BE USED IN THIS PROJECT); APPLICATION TEMPERATURE: 40°F TO 104°F; SKIN -FORMING TIME: APPROX. 15 MINS; CURINT TIME: APPROX. 2 MM/ 3 DAYS; VOLUME
   SHRINKAGE: APPROX. 0-5%; MOVEMENT CAPAVILITY (UL 2076): APPROX. 33); TEMPERATURE RESISTANCE: -40°F TO 300°F; SURFACE BURNING CHARACTERISTICS (ASTM E84-12): FLAME SPREAD, 0-SMOKE DEVELOPMENT. 25; SOUND TRANSMISSION
   CLASSIFICATION (ASTM E 90-09): 59 (RELATES TO SPECIFIC CONSTRUCTION); TESTED IN ACCORDANCE WITH: UL2079, ASTM E 814, ASTM E 1966, ASTM C 920, UL 1479, ASTM E 84, ASTM G21

7. SEALANT (USED WHEN SPRINKLER PIPES PENETRATE EXTERIOR WALLS)
   MANUFACTURER: DOW; MODEL: DOWSIL 757 NEUTRAL CURE
   SEALANT CLEAR
   COMPOSITION: ONE-PART SILICONE RUBBER SUPPLIED AS NONSLUMPING PASTE.

8. BALL VALVE
   SINGLE PIECE, BRASS, THEADED, MINIMUM WORKING PRESSURE: 350 PSI, WITH OR WITHOUT LOCKING PAD.

9. SHIELD EXPANSION ANCHOR
MANUFACTURER DEWALT; MODEL: DOUBLE

ROD/ANCHOR DIAMETER: 3/8"
APPLICATION: CLEVIS HANGER UPPER ATTACHMENT
ANSI DRILL BIT SIZE (IN.):3/4"
MAX. TIGHTENIN TORQUE (FT-LBS): 60
SLEEVE SIZE (UNC): 3/8-16
THREAD LENGTH IN CONE (IN):⅝
OVERALL ANCHOR LENGTH (IN): 2

ROD/ANCHOR DIAMETER: 5/8"
APPLICATION: WALL BRACKET ATTACHMENT
ANSI DRILL BIT SIZE (IN.):1-1/4
MAX. TIGHTENIN TORQUE (FT-LBS): 10
SLEEVE LENGHT (IN.): 3-1/4
THREAD SIZE (UNC): 3/4-10
THREAD LENGTH IN CONE (IN):⅞ 1-1/8
OVERALL ANCHOR LENGTH (IN): 3-15/16

10. INSPECTOR S TEST VALVE
MANUFACTURER: AGF MANUFACTURING INC. MODEL 3011BW; STANDARD: UL'S "PRODUCT IQ" LISTING OR "APPROVAL GUIDE," PUBLISHED BY FM GLOBAL, LISTING, NFPA 13, 13R, 13D AS APPLICABLE; PRESSURE RATING: 300 PSIG; BODY MATERIAL: BRONZE BODY, BRASS STEM, STEEL HANDLE, CHROME-PLATED BRONZE BALL, VIRGIN TEFLON VALVE SEAT; COMPONENTS: A TAMPER RESISTANT TEST ORIFICE AND A TAPPED ORIFICE SIZE: NOMINAL 2.8K (⅜ INCH), AS REQUIRED BY NFPA 13, LATEST EDITION; INLET AND OUTLET: THREADED.

11. SPRINKLERS
    SIDEWALL (HORIZONTAL):
    TEMPERATURE: ORDINARY
    TYPE: QUICK RESPONSE
    K FACTOR: 5.6
    MINIMUM OPERATING PRESSURE: 7 PSI

    UPRIGHT:
    TEMPERATURE: ORDINARY
    TYPE: QUICK RESPONSE
    K FACTOR: 5.6
    MINIMUM OPERATING PRESSURE: 7 PSI

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SIGNATURE

FILE
Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
FIRE PROTECTION_DETAILS

DRAWING No.
FP102

F I R E A L A R M S Y S T E M

1 FIRE ALARM SYSTEM PLAN
SCALE: 1/8"= 1'-0"

FIRE ALARM SYSTEM NOTES

1. COORDINATE ALL REQUIREMENTS OF CONDUIT, WIRING & DEVICES WITH MANUFACTURER PRIOR TO INSTALLATION. CONDUIT SHALL BE ENT OR IMC. 3/4" MINIMUM UNLESS OTHERWISE INDICATED, USE PVC EMBEDDED IN NEW CONCRETE SLABS AND FOR UNDERGROUND INSTALLATION ONLY.
2. ALL JUNCTION BOX FOR FIRE ALARM SYSTEM SHALL BE IDENTIFIED.
3. THE WIRING OF THE FIRE ALARM SYSTEM SHALL BE CLASS "B".
4. THE FIRE ALARM SYSTEM SHALL BE FULLY ADDRESSABLE, (INTELLIGENT).
5. THE FIRE ALARM SYSTEM SHALL INCLUDE A "TELEPHONE INTERFACE CARD" TO CALL AUTOMATICALLY LOCAL FIRE DEPARTMENT IN A FIRE CASE. COORDINATE WITH MANUFACTURER PRIOR TO BID.
6. SMOKE DETECTORS SHALL NOT BE INSTALLED MORE THAN FOUR INCHES, (4") FROM THE HIGHEST POINT OF CEILING SLAB. COORDINATE EXACT REQUIREMENTS MANUFACTURER.
7. THE FIRE ALARM SYSTEM INSTALLATION SHALL COMPLY WITH NATIONAL FIRE ALARM ANS SIGNALINGCODE (NFPA 72 LASTED EDITION) AND PUERTO RICO'S FIRE DEPARTAMENT REGULATIONS.
8. MAIN FIRE ALARM PANEL WILL BE INSTALLED IN THE ELECTRICAL ROOM.
9. ALL FIRE ALARM DEVICES SHALL BE, ADDRESSABLE AND PROVIDED WITH VANDAL PROTECTION COVERS.
10. CONTRACTOR SHALL VERIFY AND TEST ENTIRE FIRE ALARM SYSTEM.
11. CONTRACTOR SHALL PROVIDE NEW FIRE ALARM EQUIPMENT, UL LISTING.
12. DETECTORS SHALL NOT BE INSTALLED UNTIL THE FINAL CLEANING IS COMPLETED.
13. FIRE ALARM PANEL SLC OPERATES UP 10,000 FT. WITH TWELED WIRE OR 3,000 FT. WITH UNTEWISTED, UNSHIELDED WIRE.

LEGEND - FIRE ALARM SYSTEM:

FACP	ADDRESSABLE FIRE ALARM, EQUAL OR SIMILAR TO CONTROL PANEL (MS-9050UDE FIRE LITE ALARMS BY HONEYWELL)
PS	POWER SUPPLY (FCPS-24FS8 FIRELITE BY HONEYWELL) INSTALL ABOVE ACOUSTICAL CEILING LEVEL.
P	ADDRESSABLE PHOTOELECTRIC DETECTOR 900 FT (HFS-P/A) Fire Lite Alarms By Honeywell)
F	OUTDOOR ADDRESSABLE MANUAL PULL (LX Fire Lite Alarms by Honeywell).
	OUTDOOR WALL STROBE LIGHT (SpectrAlert Advance Fire Lite Alarms by Honeywell.)
	STROBE HORN - INDOOR SPEAKER /STROBE, WALL MOUNTED EQUAL OR SIMILAR TO FIRE LITE ALARM, MODEL SP (W) (R) V (A), BY HONEYWELL.
	FIRE EXTINGUISHER CABINET (TYPE ABC 10 LBS by Badger).
EM	EMERGENCY LIGHT 4 INCH OCTAGONAL BOX. LED EMERGENCY LIGHT EL-W-LED-W BY ASTRALITE @ 84" A.F.F.
	EXIT SIGN ROYAL PACIFIC LTG. RXL 17 RW
SP	SPRONKERS HEAD, FOR MORE DETAILS SEE SHEETS FP100, FP101 Y FP102

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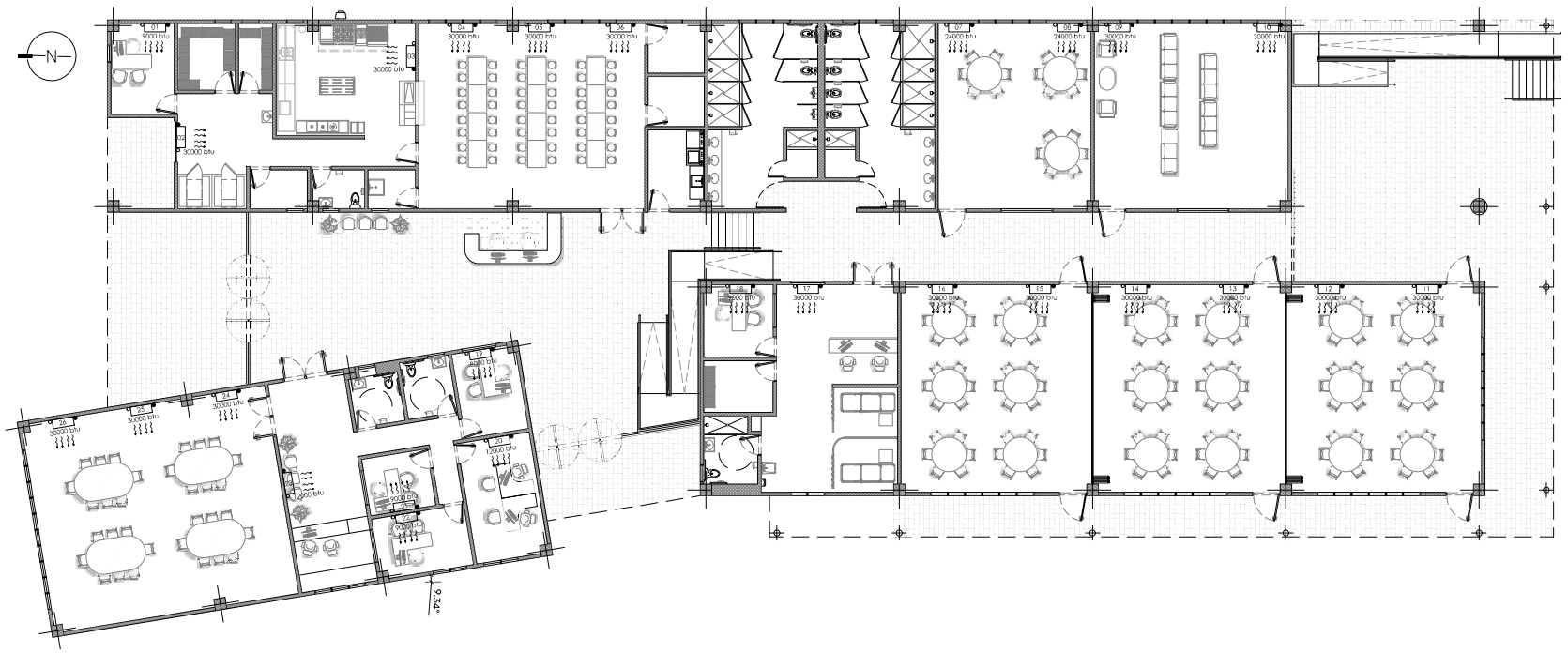
Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
FIRE ALARM SYSTEM

DRAWING No.
FP103

PAGE: 83 /89

M E C H A N I C A L S Y S T E M P L A N



NOTE:
A/C DRAIN MUST BE CONNECTED TO EXISTING SANITARY LINE.

LEGEND

- EVAPORATOR UNIT
- CONDENSING UNIT
- 3" Ø PVC DUCT-DARK DOT REPRESENTS PASS-THROUGH CONDUIT TO ROOF FOR INSULATED PIPES AND WIRING (CONTROL AND POWER) BETWEEN CONDENSING UNIT AT ROOF AND FAN COIL.
- CONNECTION INLET TO DRAINAGE PIPING TO BE HIDDEN WITHIN WALLS OR FURRINGS HEADING CONDENSATION FROM THE EQUIPMENT TO AN ACCEPTABLE POINT OF DISCHARGE.

1 MECHANICAL SYSTEM PLAN
SCALE: 1/8"=1'-0"

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Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
MECHANICAL SYSTEM PLAN

DRAWING No.
VAC 100

GENERAL A/C NOTES

INTENTION
IT IS THE INTENTION OF THE DRAWINGS TO CALL FOR FINISHED WORK, COMPLETE, TESTED AND READY FOR OPERATION. DETAILS NOT SHOWN OR SPECIFIED, BUT NECESSARY FOR THE PROPER INSTALLATION, FUNCTION AND OPERATION OF THE SYSTEM SHALL FORM PART OF THE WORK TO BE PERFORMED BY THE CONTRACTOR

1. THE MECHANICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL ELECTRICAL CONTROLS, SAFETY SWITCHES AND ACCESSORIES NOT INDICATED IN THE ELECTRICAL DRAWINGS AND NECESSARY FOR THE MECHANICAL EQUIPMENT MANUFACTURES RECOMMENDATIONS AND THE NATIONAL ELECTRIC CODE.

2. THE MECHANICAL CONTRACTOR SHALL PERFORM ALL WIRING AND CONNECTION (POWER) NOT INDICATED IN THE ELECTRICAL DRAWINGS AND NECESSARY FOR THE PROPER OPERATION OF THE MECHANICAL EQUIPMENT IN STRICT ACCORDANCE WITH THE RULES OF THE NATIONAL ELECTRIC CODE.

3. AIR CONDITIONING EQUIPMENT MANUFACTURER SHALL SUPPLY THERMOSTATIC EXPANSION VALVES, FILTER DRYER SIGHT GLASS PACK LESS GLOVE VALVE AND LIQUID LINE SOLENOID VALVES, FOR FIELD INSTALLATION, WHEN APPLICABLE.

4. THE ENTIRE AIR CONDITIONING INSTALLATION SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE STANDARDS AND RECOMMENDATIONS OF THE PUERTO RICO ENERGY CONSERVATION CODE. AMERICAN SOCIETY OF HEATING REFRIGERATING AND AIR CONDITIONING ENGINEERS AIR CONDITION AND REFRIGERATION INSTITUTE AND MFPA 90A/90B 1984 EDITION CODE.

5. CODES AND REGULATION REFEREED TO ARE THE MINIMUM STANDARDS.
WHERE THE REQUIREMENTS OF THE SPECIFICATIONS OR DRAWINGS EXCEED THOSE OF THE CODES AND REGULATIONS, THE DRAWINGS AND SPECIFICATIONS SHALL GOVERN.

6. ALL EQUIPMENT SHALL BE INSTALLED AND CONNECTED AS SPECIFIED AND INDICATED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTION AND RECOMMENDATION FURNISH AND INSTALL AUXILIARY PIPING, WATER SEALS, VALVES, ELECTRICAL CONNECTIONS, AND SIMILAR ITEMS, NOT INDICATED OR SPECIFIED BUT REQUIRED AND/OR RECOMMENDED BY THE MANUFACTURER FOR PROPER OPERATION.

7. AFTER COMPLETION OF THE INSTALLATION THE CONTRACTOR SHALL MAKE ALL NECESSARY TESTS, ADJUSTMENTS, AND BALANCE THE SYSTEM TO PROVIDE UNIFORM COOLING THROUGHOUT. APPARATUS SHALL PERFORM SATISFACTORILY AND TEST NECESSARY TO SHOW IT IS CAPABLE OF MEETING SPECIFIED CONDITIONS FURNISH ALL LABOR AND INSTRUMENTS FOR TESTS AND ADJUSTMENTS. AS PART OF THIS CONTRACT THE CONTRACTOR SHALL MAKE ANY CHANGES IN THE PULLEYS BELTS AND DAMPERS OR THE ADDITION OF DAMPERS CORRECT BALANCE AS RECOMMENDED BY BALANCING CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

8. THE DRAWINGS ARE NOT INTENDED TO SHOW COMPLETE OR ACCURATE DETAILS OF THE BUILDING OR INSTALLATION IN EVERY RESPECT. THEY SHOW THE GENERAL LAYOUT AND DO NOT SHOW ALL THE DETAILS OF MANUFACTURERS EQUIPMENT OR THE EXACT SIZE AND LOCATION OF THE PIPING, DUCTWORK AND MACHINERY.

9. THE CONTRACTOR SHALL VERIFY AVAILABLE ELECTRICAL POWER (V, PH) BEFORE PURCHASING EQUIPMENT.

10. BEFORE SUBMITTING BIDS, CONTRACTOR SHALL VISIT THE SITE AND CAREFULLY EXAMINE THOSE PORTIONS OF THE SITE AFFECTED BY THIS WORK SO AS TO FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT THE EXECUTION OF THE WORK.

11. SUBMISSION OF A BID WILL BE CONSTRUED AS EVIDENCE THAT SUCH EXAMINATION HAS BEEN MADE AND LATER CLAIMS FOR LABOR, EQUIPMENT OR MATERIAL REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED, WHICH COULD HAVE BEEN FORESEEN HAD SUCH EXAMINATION BEEN MADE, WILL NOT BE RECOGNIZED.

GENERAL NOTES ON INSTALLATION

1.- THE INTERCONNECTION LINE BETWEEN THE EVAPORATOR UNIT AND THE CONDENSER UNIT INCLUDES WIRING, SUCTION AND LIQUID PIPING.
2.- THE LOCATION OF THE EQUIPMENT, WIRING AND PIPING TRAJECTORY ARE SCHEMATIC SO THEY MUST BE ADJUSTED IN THE FIELD.
3.- THE DISTANCE BETWEEN THE WALL AND CEILING TYPE EVAPORATOR UNIT TO THE CEILING, MUST BE 4" MINIMUM, UNLESS OTHERWISE INDICATED.
4.- THE BASES OF THE CONDENSING UNITS OF THE MINI SPLIT UNITS SHALL BE PLACED ON THE CEILING ON CONCRETE BASES.
5.- ALL CONDENSATE DRAINAGE PIPING SHALL BE CHANNELED TO THE NEAREST STORM DRAINS, TOILETS AND/OR LANDSCAPED AREAS.
6.- ALL CONDENSATE DRAINAGE PIPING SHALL BE ROUTED AWAY FROM THE BLOCK WALLS.
7.- LIQUID AND SUCTION LINE INTERCONNECTIONS (AT EVAPORATOR AND CONDENSER) SHALL BE OF THE THREADED TYPE.
8.- THE LIQUID AND VAPOR PIPES SHALL BE OF FLEXIBLE COPPER TYPE "L".
9.- THE CHANGES OF DIRECTION WILL BE MADE BY MEANS OF A TUBE BENDER.
10.- 1 TON OF REFRIGERATION (T.R.) EQUALS 12,000 BTU/HR.
11.- THE COVER WILL BE MADE OF THE SAME PIPE, HEATING THE UPPER EDGE AND CUTTING IT IN FOUR PARTS, AND THEN BENDING THEM TOWARDS THE CENTER OF THE PIPE FORMING A COVER WITH THE WALLS OF THE SAME.
12.- FOR THE PLUVIAL DOWNSPOUTS 3 "Ø PIPE WILL BE USED INSIDE THE BLOCK WALLS, THE PIPE WILL BE CHANNELED TO THE NEAREST SANITARY DRAINS AND/OR GREEN AREAS.

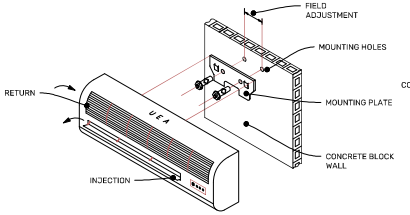
LEGEND

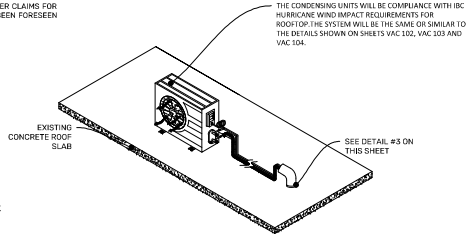
EVAPORATOR UNIT

CONDENSING UNIT

3" Ø PVC DUCT-DARK DOT REPRESENTS PASS-THROUGH CONDUIT TO ROOF FOR INSULATED PIPES AND WIRING (CONTROL AND POWER) BETWEEN CONDENSING UNIT AT ROOF AND FAN COIL.

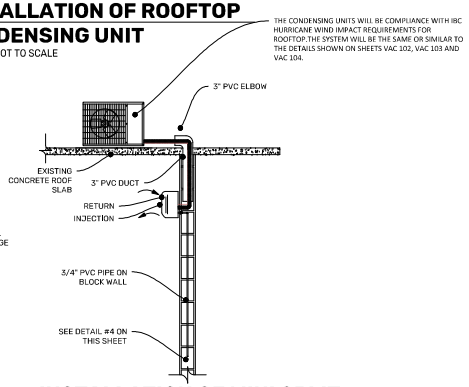
CONNECTION INLET TO DRAINAGE PIPING TO BE HIDDEN WITHIN WALLS OF FURRINGS LEADING CONDENSATION FROM THE EQUIPMENT TO AN ACCEPTABLE POINT OF DISCHARGE.

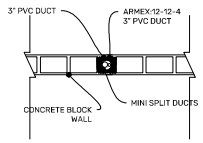




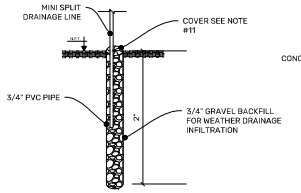
1 DETAIL OF EVAPORATOR UNIT MOUNTING BRACKET
SCALE: NOT TO SCALE

2 INSTALLATION OF ROOFTOP CONDENSING UNIT
SCALE: NOT TO SCALE





3 MINI SPLIT DUCT DETAIL
SCALE: NOT TO SCALE



4 DRAIN PIPE DETAIL
SCALE: NOT TO SCALE

5 INSTALLATION OF MINI SPLIT UNIT ON WALL
SCALE: NOT TO SCALE

MECHANICAL SYSTEM_DETAILS
SCALE: NOT TO SCALE

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OWNER
LAJAS MUNICIPALITY

REGISTER No.
358-032-072-01

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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CERTIFICATION
I, WILLIAM MELENDEZ RIVAS, LIC. 16383, CERTIFY THAT I AM THE PROFESSIONAL WHO MADE, DESIGNED OR PREPARED THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 14-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY" AND WITH THE LAW NO. 319 OF MAY 15, 1938, AS AMENDED; ACT NO. 96 OF JULY 6, 1978, AS AMONDED; AS APPLICABLE. I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY IGNORANCE OR NEGLIGENCE EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE OGPE.

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FILE
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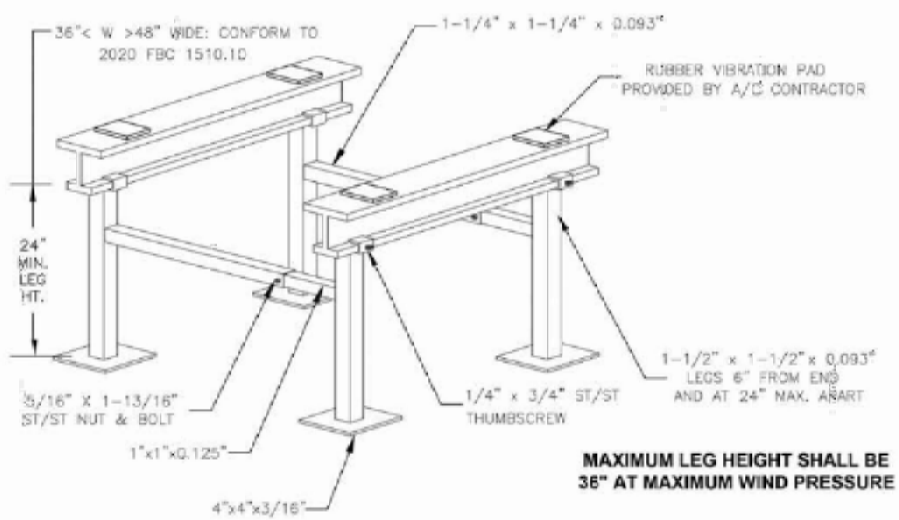
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
MECHANICAL SYSTEM_DETAILS

DRAWING No.
VAC101

1 Unit System



MAXIMUM LEG HEIGHT SHALL BE 36" AT MAXIMUM WIND PRESSURE

PROVIDE ONE OF THE FOLLOWING ATTACHMENT METHODS

INSTALLATION INSTRUCTIONS:

USE 3/8" x 1-1/4" STAINLESS OR COATED BOLT, NUT & 1" WASHER AT 4 LOCATIONS THROUGH UNITS BOTTOM PAN AND TOP RAIL OF UNIT STAND.

USE 4 "METAL SHOP" ANCHOR CLIPS #771, 773, 883 AT 4 CORNERS OF UNIT AND TOP RAIL OF UNIT STAND.

WRAP UNIT AND TOP RAIL WITH 22 GA. HURRICANE COIL STRAP, GALVANIZED AT 2 LOCATIONS AND BOLT STRAP TO TOP RAIL OF STAND USING 1/4" GALVANIZED OR STAINLESS STEEL BOLTS, NUTS, & WASHERS

TABLE 1510.10
CLEARANCE BELOW RAISED ROOF MOUNTED MECHANICAL UNITS

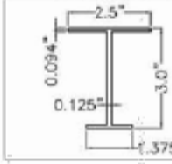
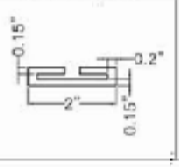
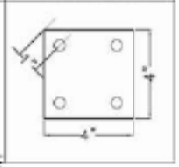
WIDTH OF MECHANICAL UNIT	MINIMUM CLEARANCE ABOVE SURFACES
W < 24"	14"
24" < W < 36"	18"
36" ≤ W < 48"	24"
48" ≤ W < 60"	30"
W > 60"	48"

A/C STAND REACTIONS TABLE

ROOF MATERIAL	ALLOWABLE BUILDING HEIGHT AT 160 MPH	MAXIMUM ALLOWABLE WEIGHT PER UNIT	UP LIFT	LATERAL	COMP.	BENDING MOMENT
CONC. DECK/ STEEL JOIST	120'	350 LBS	294#	331#	605#	262 FT-LB
WOOD DECK	75'	350 LBS	294#	331#	605#	295 FT-LB

DESIGN WIND PRESSURE CALCULATED PER CHAPTER 30: COMPONENTS & CLADDING OF ASCE 7-16 FOR 145 MPH, CAT. II, EXP. D, AT AN ELEVATION OF 60 FT.

MAXIMUM DESIGN WIND PRESSURE	
A/C STAND ATTACHED TO : CONCRETE OR, STEEL HOST STRUCTURE	MAX WIND PRESSURE 82.3 PSF
WOOD HOST STRUCTURE	MAX WIND PRESSURE 79.0 PSF

RAIL SECTION	CLAMP SECTION	BASE PLATE
		

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LAJAS MUNICIPALITY

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DATE DESCRIPTION BY CHK'D

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FICATION

MELENDEZ RIVAS, LIC. 16383, CERTIFY THAT I ROFESSIONAL MHO MADE, DESIGNED OR THESE PLANS AND THE COMPLEMENTARY TIONS. I ALSO CERTIFY THAT I UNDERSTAND PLANS AND SPECIFICATIONS COMPLY WITH LICABLE PROVISIONS OF THE JOINT NS AND THE APPLICABLE PROVISIONS OF ATIONS AND BUILDING CODES IN FORCE OF CIES, REGULATORY BOARDS OR PUBLIC IONS WITH JURISDICTION. I FURTHER HAT THE PREPARATION OF THESE PLANS FICATIONS HAS FULLY COMPLIED WITH THE S OF LAW 14-2004, AS AMENDED, KNOWN AS FOR INVESTMENT BY THE PUERTO RICAN AND WITH THE LAW NO. 259 OF MAY 15, MENDED; ACT NO. 96 OF JULY 6, 1976, AS AS APPLICABLE. I ACKNOWLEDGE THAT STATEMENT OR MISREPRESENTATION OF T HAS BEEN PRODUCED BY IGNORANCE OR E EITHER BY ME, MY AGENTS OR S, OF BY OTHERS WITH MY KNOWLEDGE. RESPONSIBLE FOR ANY JUDICIAL AND RY ACTION BY THE DOPE.

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Ingeniero
Licenciado
Lic. 16383
Puerto Rico

me: INGENIUM GROUP

y: INGENIUM GROUP

l by: ING. WILLIAM MELENDEZ

le: AS SHOWN

s Print:

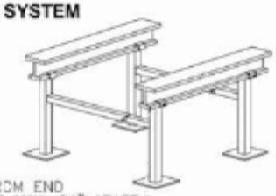
INUM STANDS FOR
HANICAL UNITS

G No.

VAC 102

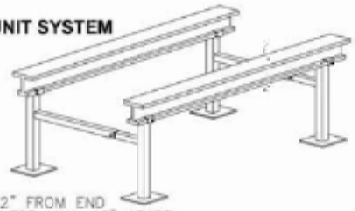
PAGE: 86/89

1-UNIT SYSTEM



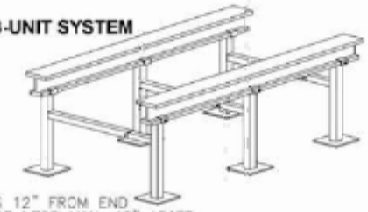
LEGS 6" FROM END
INSIDE LEGS MAX. 24" APART

2-UNIT SYSTEM



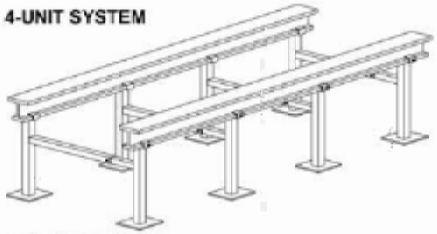
LEGS 12" FROM END
INSIDE LEGS MAX. 48" APART

3-UNIT SYSTEM



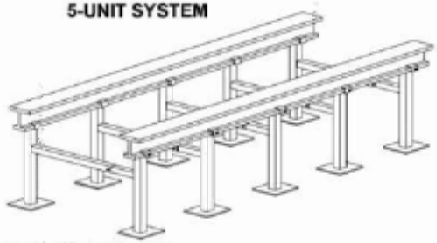
LEGS 12" FROM END
INSIDE LEGS MAX. 42" APART

4-UNIT SYSTEM



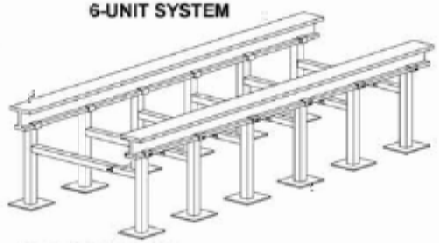
LEGS 12" FROM END
INSIDE LEGS MAX. 40" APART

5-UNIT SYSTEM



LEGS 12" FROM END
INSIDE LEGS MAX. 38" APART

6-UNIT SYSTEM



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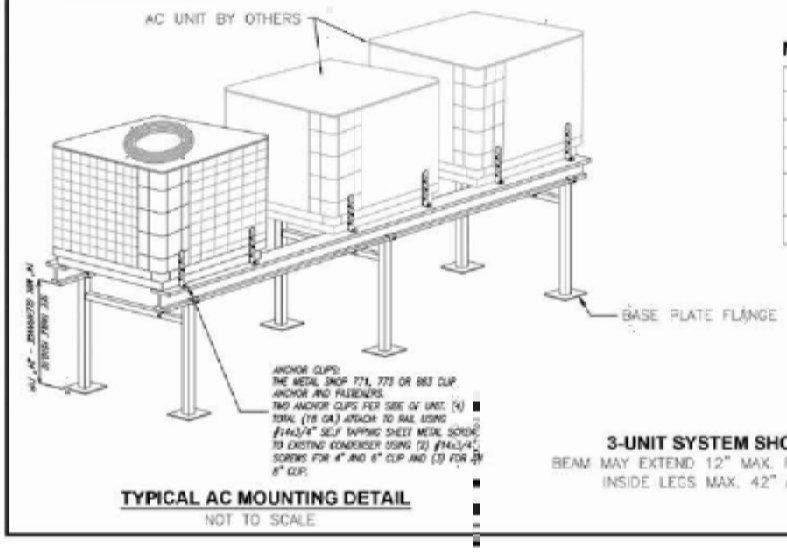

TYPICAL AC MOUNTING DETAIL
NOT TO SCALE

NOTE:
MAINTAIN EQUAL LEG SPACING PER UNIT SYSTEM CONFIGURATION

UNIT/SIZE TABLE						
AC STAND LENGTH	3 FT	6 FT	9 FT	12 FT	15 FT	18 FT
ROOF TYPE	ALL	ALL	ALL	ALL	ALL	ALL
MAX # UNITS	1	2	3	4	5	6
MAX SURFACE AREA PER UNIT	9 SF	9 SF	9 SF	9 SF	9 SF	9 SF
TOTAL SURFACE AREA	9 SF	18 SF	27 SF	36 SF	45 SF	54 SF

3-UNIT SYSTEM SHOWN
BEAM MAY EXTEND 12" MAX. FROM END LEG
INSIDE LEGS MAX. 42" APART

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REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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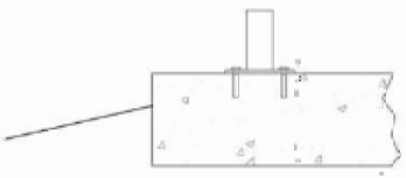
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
ALUMINUM STANDS FOR MECHANICAL UNITS

DRAWING No.
VAC 103

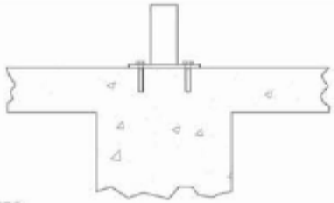
TYPICAL BASE PLATE CONNECTIONS

TO SLAB ON GRADE



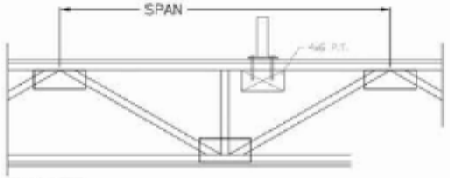
FASTENERS:
(4) 1/4" DIA. HEX-HEAD
TAP-CONS WITH 1-1/2" EMBED

TO STD. WEIGHT CONCRETE



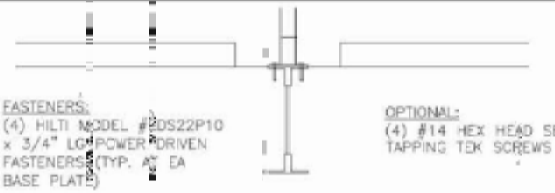
FASTENERS:
(4) 1/4" HILTI "KWIK BOLT II" W/ 2" EMBED OR (4) 1/4" DIA. RAWL MUSHROOM HEAD SPIKES W/ 1-1/4" EMBED.
MIN. ANCHOR SPACING SHALL BE 2.5"
MIN. EDGE DISTANCE SHALL BE 3.0"

TO WOOD BEAM/TRUSS



FASTENERS:
(4) 3/8" LAG SCREWS W/ 2-1/2" MIN. EMBED INTO TRUSS/BEAM (TYP. EACH BASE PLATE)
MIN. ANCHOR SPACING: 2.5"
MIN. EDGE DISTANCE: 1.0"
PRE-DRILL FOR LAG SCREWS

TYPICAL CONNECTION TO STEEL JOIST



FASTENERS:
(4) HILTI MODEL #HDS22P10 x 3/4" LG. POWER DRIVEN FASTENERS (TYP. AT EA BASE PLATE)

OPTIONAL:
(4) #14 HEX HEAD SELF TAPPING TEK SCREWS

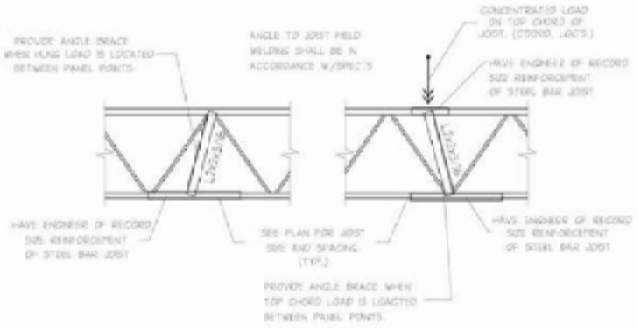
ROOF TOP UNIT FRAMING

COORDINATE WITH STRUCTURAL ENGINEER PRIOR TO STARTING CONSTRUCTION FOR LARGER ROOF TOP UNITS. STRUCTURAL ENGINEER TO VERIFY THAT EXISTING ROOF STRUCTURE IS CAPABLE OF SUPPORTING THE EXCESSIVE POINT LOAD.

STEEL CHANNEL OR STEEL TUBE MAY BE SUBSTITUTED FOR STEEL ANGLE SIZES SHOWN ABOVE.

VERIFY ALL DIM'S AND DETAILS W/MECH CONTRACTOR BEFORE FABRICATION

ROOF TOP UNIT FRAME SCHEDULE	
UNIT WEIGHT	ANGLE SIZE:
0 - 675 LBS.	L3x3x 3/16
676 - 1500 LBS.	L4x4x1/4
1501 - 3000 LBS.	L6x4x3/8 (L.L.H.)
3001 - 6000 LBS.	L6x6x7/16



STEEL JOIST REINFORCING DETAIL

NOT TO SCALE

This plan has been digitally signed and sealed by Joseph G. Hiller, P.E., using a Digital signature. Printed copies of this document are not considered signed and sealed and the digital signature must be verified on any electronic copies.

THE DRAWINGS AND ITS REPRODUCTIONS ARE THE PROPERTY OF ALL OF DRAWINGS AND MAY NOT BE REPRODUCED IN WHOLE OR PART WITHOUT THE WRITTEN PERMISSION OF THE ENGINEER.

PROJECT ADDRESS
ELDERLY SERVICE CENTER
CALLE FERROCARRIL #11 BO. PUEBLO,
LAJAS, P.R. 00667

GPS LATITUDE/LONGITUDE:
18.04941608, -67.05761236

OWNER
LAJAS MUNICIPALITY

REGISTER No.
3 5 8 - 0 3 2 - 0 7 2 - 0 1

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
--	--	--	--	--

IMPORTANT NOTES TO THE CONTRACTOR:

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE PROCEEDING WITH WORK. IF ANY DISCREPANCIES, ERRORS OR OMISSIONS SHOULD BE ENCOUNTERED ON PLANS, CONTRACTOR SHALL NOTIFY THE ENGINEER BEFORE ANY PART OF THE WORK IS STARTED SO THAT PROPER CORRECTIONS ARE MADE. IF ENGINEER IS NOT NOTIFIED PRIOR TO COMMENCING OF THE WORK, ALL DESIGNS AND DRAWINGS HEREIN AND PRINTS ISSUED BY THE ENGINEER ARE THE PROPERTY OF THE ENGINEER AND SHALL NOT BE REUSED ON ANY OTHER LOCATION EXCEPT THE ONE FOR WHICH THEY EXPRESSLY DESIGNED. IF THESE DRAWINGS OR ANY PART THEREOF IS REPRODUCED WITHOUT THE CONSENT OF THE ENGINEER, THE PERSON WHO IS DOING WILL BE INDEBTED TO THE ENGINEER FOR HIS FULL COMMISSION. CONTRACTOR SHALL NOT USE FOR CONSTRUCTION PURPOSES ANY DRAWINGS THAT WERE ADVANCE TO HIM PRIOR TO THE BEGINNING OF CONSTRUCTION. ALL PLANS BEING USED BY CONTRACTOR SHOULD HAVE A LABEL SAYING "FOR CONSTRUCTION ONLY" SIGNED AND SEALED BY THE ENGINEER.

CERTIFICATION

I, WILLIAM MELENDEZ RIVAS, LIC. 16,883, CERTIFY THAT I AM THE PROFESSIONAL WHO MADE, DESIGNED OR PREPARED THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 14-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY" AND WITH THIS (LAW NO. 219 OF MAY 15, 1938, AS AMENDED; ACT NO. 96 OF JULY 6, 1978, AS AMENDED; AS APPLICABLE. I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY IGNORANCE OR NEGLIGENCE EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE OGPE.

INGENIUM
PROFESSIONAL GROUP
654 Ave. Muñoz Rivera - Suite 1639
654 Plaza, San Juan, PR 00918
Tel. (787) 919-0999 / 5691
Email: info@ingenium.group

SIGNATURE

William Melendez Rivas
Ingeniero
Licenciado
Lic. 16,883
Puerto Rico

FILE

Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
ALUMINUM STANDS FOR MECHANICAL UNITS

DRAWING No.
VAC 104

1 **PERSPECTIVE**
SCALE: N.T.S.

2 **PERSPECTIVE**
SCALE: N.T.S.

3 **PERSPECTIVE**
SCALE: N.T.S.

4 **PERSPECTIVE**
SCALE: N.T.S.

5 **PERSPECTIVE**
SCALE: N.T.S.

6 **PERSPECTIVE**
SCALE: N.T.S.

PROJECT ADDRESS
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3 5 8 - 0 3 2 - 0 7 2 - 0 1

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INGENIUM PROFESSIONAL GROUP
604 Ave. Melitas Rivera - Suite 1838
654 Plaza San Juan, PR 00700
Tel: (787) 918-6890 / 6891
Email: info@ingenium.group

SIGNATURE

William Melendez Rivas
Ingeniero Licenciado
Lic. 16383 PR
Puerto Rico

FILE

Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
RENDERS

DRAWING No.
R100

PAGE: 89/89

Exhibit 13 Sole Source Aquifers Map

PR-CRP-000902 Elderly Service Center
#11 Ferrocarril Street, Lajas, PR 00667
Coordinates 18.04941608, -67.05761236

Legend:

- Sole Source Aquifers
- Project Site

1:10,000,000

0 401,960 803,920 1,607,840 ft

0 123,480 246,960 493,920 m

Esri, HERE, Garmin, NGA, USGS

2/27/2025

SVR - Tetratech

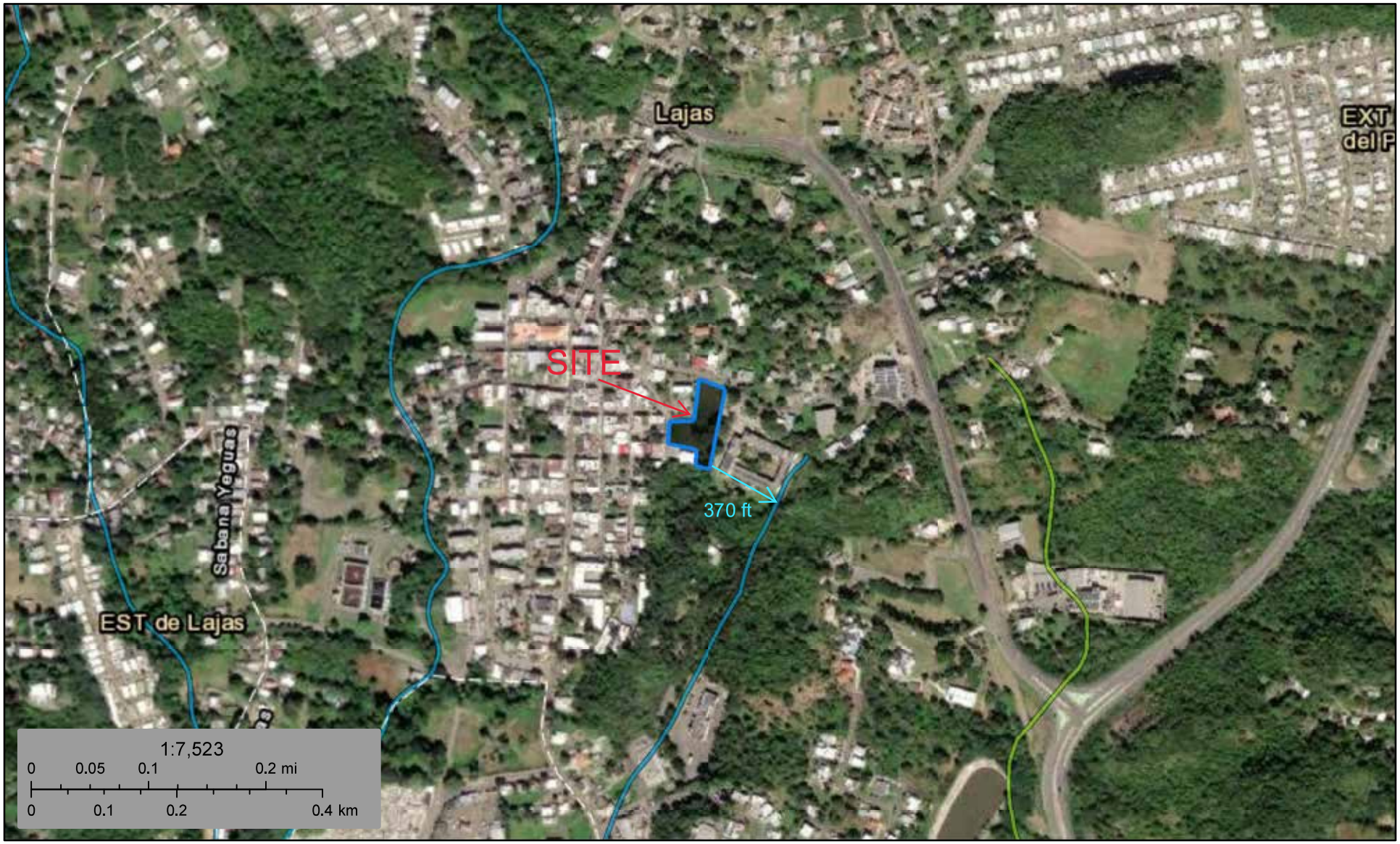
U.S. Environmental Protection Agency

https://epa.maps.arcgis.com/apps/webappviewer/index.html?id=9ebb047ba3ec41ada1877155fe31356b

U.S. Fish and Wildlife Service

National Wetlands Inventory

Exhibit 14
PR-CRP-000902 Elderly Service Center
#11 Ferrocarril Street, Lajas, PR 00667
Coordinates 18.04941608, -67.05761236



February 26, 2025

Wetlands

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

N

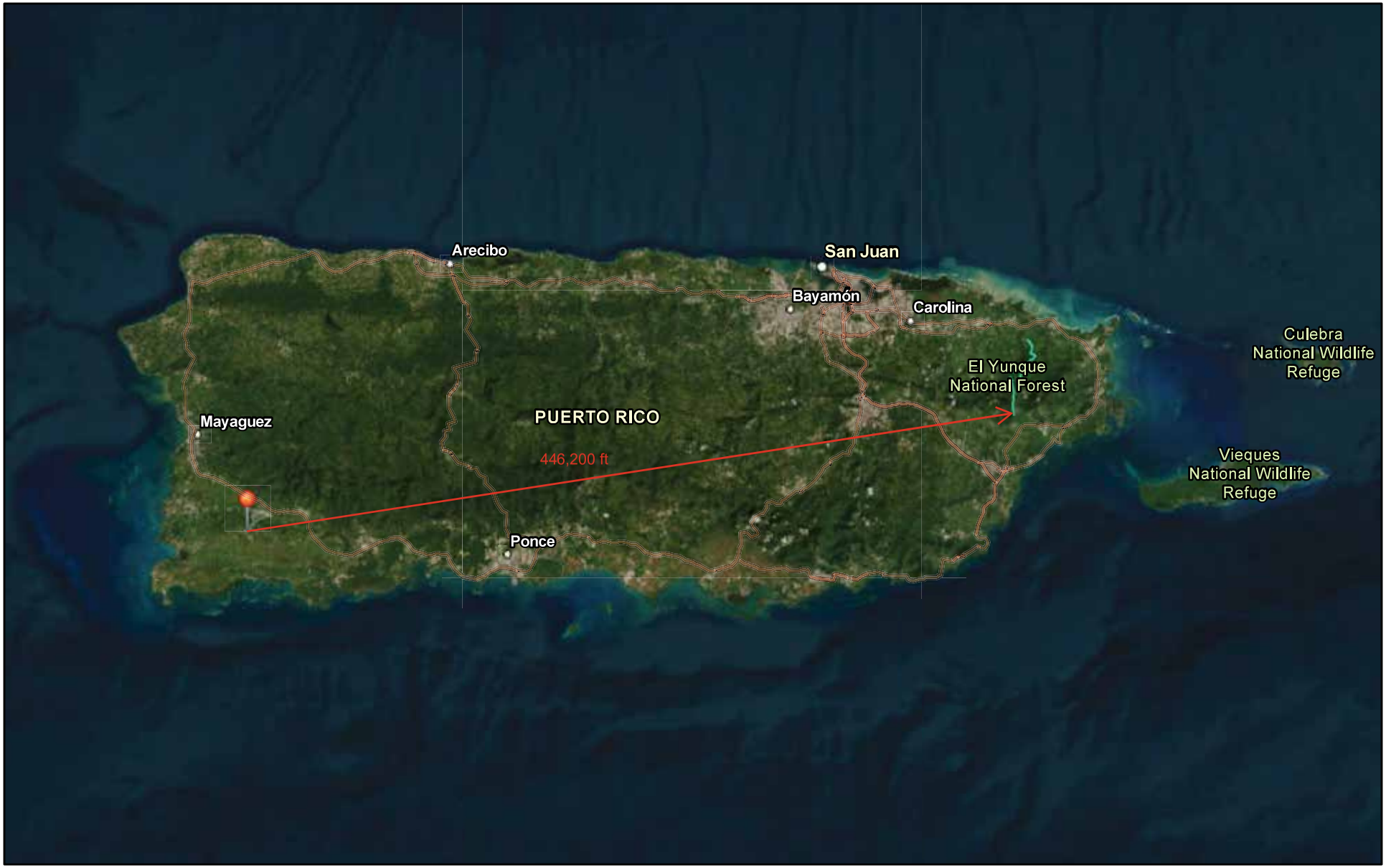
This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

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

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

Exhibit 15 Wild and Scenic Rivers Map

PR-CRP-000902 Elderly Service Center #11
Ferrocarril Street, Lajas, PR 00667
Coordinates 18.04941608, -67.05761236



Legend:

Project Site

Wild and Scenic Rivers

N

1:1,000,000

0 5 10 20 mi

0 12.5 25 50 km

Earthstar Geographics, Esri, TomTom, Garmin, Foursquare, SafeGraph, FAO, METI/NASA, USGS, NPS, USFWS

SVR - Tetratech

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

February 27, 2025

PR-CRP-00902 ELDERLY SERVICE CENTER
CALLE FERROCARRIL #11 BO. PUEBLO, LAJAS, P.R. 00667

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2	G101	GENERAL SITE PLAN
SURVEY - MAPPING DRAWINGS		
3	V100	AS BUILT AND TOPOGRAPHY PLAN
4	V101	BOUNDARY AREA DETERMINATIN SURVEY PLAN
5	AS100	EXISTING SITE PLAN_AS BUILT
6	AS101	EXISTING GROUND FLOOR PLAN_AS BUILT
7	AS102	EXISTING SITE PROFILES
8	AS103	EXISTING SITE PROFILES
9	AS104	EXISTING SITE PROFILES
10	GR100	PHOTO DOCUMENTATION
CIVIL DRAWINGS		
11	C100	PROPOSED DEMOLITION SITE PLAN
12	C101	DEMOLITION TYPICAL DETAILS
ARCHITECTURAL DRAWINGS		
13	A001	ARCHITECTURAL NOTES
14	A002	PROPOSED GROUND SITE PLAN
15	A100	PROPOSED GROUND FLOOR PLAN
16	A101	PROPOSED GROUND FLOOR PLAN - AREA 'A'
17	A102	PROPOSED GROUND FLOOR PLAN - AREA 'B'
18	A103	PROPOSED GROUND FLOOR PLAN - AREA 'C'
19	A104	PROPOSED FURNITURE PLAN
20	A105	PROPOSED FURNITURE PLAN - AREA 'A'
21	A106	PROPOSED FURNITURE PLAN - AREA 'B'
22	A107	PROPOSED FURNITURE PLAN - AREA 'C'
23	A108	PROPOSED REFLECTED CEILING
24	A109	PROPOSED ROOF PLAN
25	A200	PROPOSED SECTIONS
26	A201	PROPOSED SECTIONS
27	A202	PROPOSED SECTIONS
28	A300	PROPOSED ELEVATIONS
29	A400	LOBBY_BLOW UP
30	A401	RESTROOMS [ADMIN AREA]_BLOW UP
31	A402	RESTROOMS [NURSING & KITCHEN]_BLOW UP
32	A403	RESTROOMS_BLOW UP
33	A404	RESTROOMS_BLOW UP
34	A405	KITCHEN_BLOW UP
35	A406	KITCHEN FIXTURES & ACCESSORIES SCHEDULE
36	A407	PROPOSED RAMP BLOW UPS
37	A500	DOOR SCHEDULE
38	A501	DOOR SCHEDULE TABLES
39	A502	DOOR SCHEDULE DETAILS
40	A600	WINDOW SCHEDULE
41	A601	WINDOW SCHEDULE
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47	S102	PARTIAL FOUNDATION PLAN & KEY PLAN
48	S103	PARTIAL FOUNDATION PLAN & KEY PLAN
49	S104	STRUCTURAL NOTES. SECTION & DETAILS
50	S105	SECTIONS & DETAILS
51	S106	PARTIAL STRUCTURAL PLAN & KEY PLAN
52	S107	PARTIAL STRUCTURAL PLAN & KEY PLAN
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55	S110	ROOF DRAINAGE PLAN & BEAM ELEVATION
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59	E100	ELECTRICAL NOTES & SYMBOLS
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67	P100	3D VISUALIZATIONS
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AIR CONDITIONING SYSTEM		
70	VAC 100	MECHANICAL SYSTEM PLAN
71	VAC101	MECHANICAL SYSTEM PLAN

PRELIMINARY PHASE 60%
NOT FOR CONSTRUCTION

GENERAL NOTES

1. THE PRECISE LOCATION OF ALL POWER, GAS, TELEPHONE, WATER AND DRAIN SHALL BE VERIFY IN FIELD, CONTRACTOR SHALL CONTRACT UTILITIES, LOCATE SHUT OFF VALVES AND PROCEED SAFELY ACCORDING TO THE RECOMMENDATION OF EACH UTILITY. CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED BY INTERRUPTION OF THESE LINES AT NO COST TO THE OWNER.

2. CONTRACTOR SHALL VISIT THE SITE AND VERIFY ALL CONDITIONS AND DIMENSIONS AND REPORT ALL DISCREPANCIES TO THE ARCHITECT, PROJECT MANAGER OR INSPECTOR PRIOR TO THE COMMENCEMENT OF WORK.

3. WHERE DIMENSIONS ARE UNCLEAR, CONSULT THE ARCHITECT, PROJECT MANAGER OR INSPECTOR. CONTRACTOR SHALL BE HELD RESPONSIBLE FOR HIS WORK. ALL DIMENSIONS SHALL BE FIELD VERIFIED WHERE POSSIBLE. ALL DIMENSIONS ARE FINISHES DIMENSIONS UNLESS OTHERWISE INDICATED. ALL NEW WINDOW AND DOOR OPENINGS MUST BE VERIFIED ON SITE FOR DIMENSIONS ACCURACY BEFORE ORDERING MATERIAL.

4. THE CONSTRUCTION DRAWINGS AND THE TECHNICAL SPECIFICATIONS ARE COMPLEMENTARY TO EACH OTHER. THE CONTRACTOR MUST ASSUME INFORCOMATION PRESENT IN EITHER AND IN BOTH DOCUMENTS.

5. THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, TOOLS AND EQUIPMENT NECESSARY TO COMPLETE THE BUILDING AS SHOWN. MATERIALS AND WORKMANSHIP SHALL BE OF THE HIGHEST QUALITY EMPLOYED BY THE RESPECTIVE TRADES. EACH SUB-CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING, REFINISHING ANY AND ALL EXISTING WORK ALTERED BY EITHER OPERATION.

6. CONTRACTOR AND HIS SUB-CONTRACTORS SHALL TURN THE PROJECT OVER TO OWNER FREE FROM ALL CONSTRUCTION DEBRIS AND CLEAN

7. CONTRACTOR SHALL REPLACE AND/OR REPAIR PAVEMENT, STRUCTURES OR EQUIPMENT DETERIORATED OR DAMAGED IN ANY WAY BY THE CONSTRUCTION PROCESS WETHER OR NOT SPECIFICALLY STATED IN THE DRAWINGS.

8. CONTRACTOR SHALL TAKE MAXIMUM PRECAUTIONS IN ORDER TO PREVENT DAMAGE TO EQUIPMENT OR ADJACENT PROPERTY AND AVOID INJURIES TO PERSONNEL AND PEOPLE.

9. IT IS UNDERSTOOD THAT WHILE NOT EVERY DETAIL OF THE WORK IS SHOWN ON THE DRAWINGS OR SPECIFICATIONS, THE WORK INCLUDES ITEM INFERABLE FROM THE CONTRACTOR DOCUMENT. THE OWNER SHALL NOT BE HOLD RESPONSIBLE FOR THE ABSENCE OF ANY DETAIL THE CONTRACTOR MAY REQUIRE FOR ANY CONSTRUCTION WHICH MAY BE FOUND NECESSARY AS THE WORK PROGRESS. IF ANY ITEM OR SYSTEM IS EITHER SHOWN OR SPECIFIED, ALL MATERIAL AND EQUIPMENT NORDOMALLY FURNISHED WITH SUCH ITEMS AND/OR NEED TO MAKE A COMPLETE OPERATION INSTALLATION, SHALL BE PROVIDED WETHER MENTIONED OR NOT, OMITTING ONLY SUCH PARTS AS ARE SPECIFICALLY EXCEPTED.

10. THE DRAWINGS HAVE BEEN PREPARED ON THE BASIS OF OBSERVATION OF EXISTING CONDITIONS. THE ARCHITECT ACCEPTS NO RESPONSIBILITY FOR CONCEALED SITE CONDITIONS.

11. PAINT: ALL SURFACE MUST BE SCRAPES, CLEANED, PRIMED BEFORE PAINTED. PAINT COLOR SCHEME TO BE SELECTED BY DESIGN AND CONSTRUCTION OFFICE COORDINATOR.

12. FURNISH GRAPHICS ON DRAWINGS ARE FOR SPACE DISTRIBUTION AND PLANNING PURPOSE, NOT PART OF PROJECT CONSTRUCTION, UNLESS IT IS MENTIONED TO BE REQUIRED.

LOCATION

OBTAINED FROM: GOOGLE EARTH IMAGE

CATASTRO : 358-032-072-01

COORDENADAS: LAT: 18.04941608, LON: -67.05761236

TOPOGRAPHY

OBTAINED FROM: JUNTA DE PLANIFICACIÓN DE PUERTO RICO | GEOLOCALIZADOR- MIPR

JUNTA DE PLANIFICACIÓN. PROGRAMA DE SISTEMA DE INFORDMACIÓN GEOGRÁFICA | ESRI, HERE, GARDOMIN, INCREMENT P, NGA, USGS,

Calificación Oficialización del geodato en proceso, favor de referirse al mapa de calificacion vigente.
Clasificación PT Oficialización del geodato en proceso, favor de referirse al mapa de calificacion vigente.
Clasificación PUT SU (SUELO URBANO)

FLOOD MAP

OBTAINED FROM: FEMA FLOOD MAP SERVICE CENTER/MIPR

Zona Inund. Advisory

Zona Inundabilidad (firm) X (94.8%) , A (5.2%)
Panel Inundabilidad (advisory)

Floodway No ubica en floodway

Suelo JaC (54.0%) DeD (46.0%)

SUBMITTAL REVIEW

APPROVED

REVIEW AND/OR APPROVAL NEITHER EXTENDS NOR ALTERS ANY CONTRACTUAL OBLIGATIONS OF THE ARCHITECT OR CONTRACTOR. REFER TO THE GENERAL CONDITIONS OF THE CONTRACT AND/OR DIVISION 1 OF THE SPECIFICATION FOR A DESCRIPTION OF THIS SUBMITTAL RESPONSE AND THE CONTRACTUAL SIGNIFICANCE.

SUBMITTAL REVIEW

APPROVED AS NOTED

REVIEW AND/OR APPROVAL NEITHER EXTENDS NOR ALTERS ANY CONTRACTUAL OBLIGATIONS OF THE ARCHITECT OR CONTRACTOR. REFER TO THE GENERAL CONDITIONS OF THE CONTRACT AND/OR DIVISION 1 OF THE SPECIFICATION FOR A DESCRIPTION OF THIS SUBMITTAL RESPONSE AND THE CONTRACTUAL SIGNIFICANCE.

SUBMITTAL REVIEW

REVISE AND RESUBMIT

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SUBMITTAL REVIEW

REJECTED

REVIEW AND/OR APPROVAL NEITHER EXTENDS NOR ALTERS ANY CONTRACTUAL OBLIGATIONS OF THE ARCHITECT OR CONTRACTOR. REFER TO THE GENERAL CONDITIONS OF THE CONTRACT AND/OR DIVISION 1 OF THE SPECIFICATION FOR A DESCRIPTION OF THIS SUBMITTAL RESPONSE AND THE CONTRACTUAL SIGNIFICANCE.

PROJECT ADDRESS

PR-CRP-00902 ELDERLY SERVICE CENTER, CALLE FERROCARRIL #11 BO. PUEBLO, LAJAS, P.R. 00667.

GPS LATITUDE/LONGITUDE: 18.04941608, -67.05761236

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I, WILLIAM MELENDEZ RIVAS, LIC. 16,882, CERTIFY THAT I AM THE PROFESSIONAL WHO [MADE, DESIGNED OR PREPARED] THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 14-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY" AND WITH THE [LAW NO. 319 OF MAY 15, 1938, AS AMENDED; ACT NO. 96 OF JULY 6, 1978, AS AMENDED; AS APPLICABLE]. I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY IGNORANCE OR NEGLIGENCE EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE OOPC.

INGENIUM PROFESSIONAL GROUP
654 Ave. Muñoz Rivera - Suite 1508
654 Plaza, San Juan, PR 00918
Tel. (787) 918-5995 / 5991
Email: info@ingenium.group

SIGNATURE

William Melendez Rivas
Puerto Rico

FILE

Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

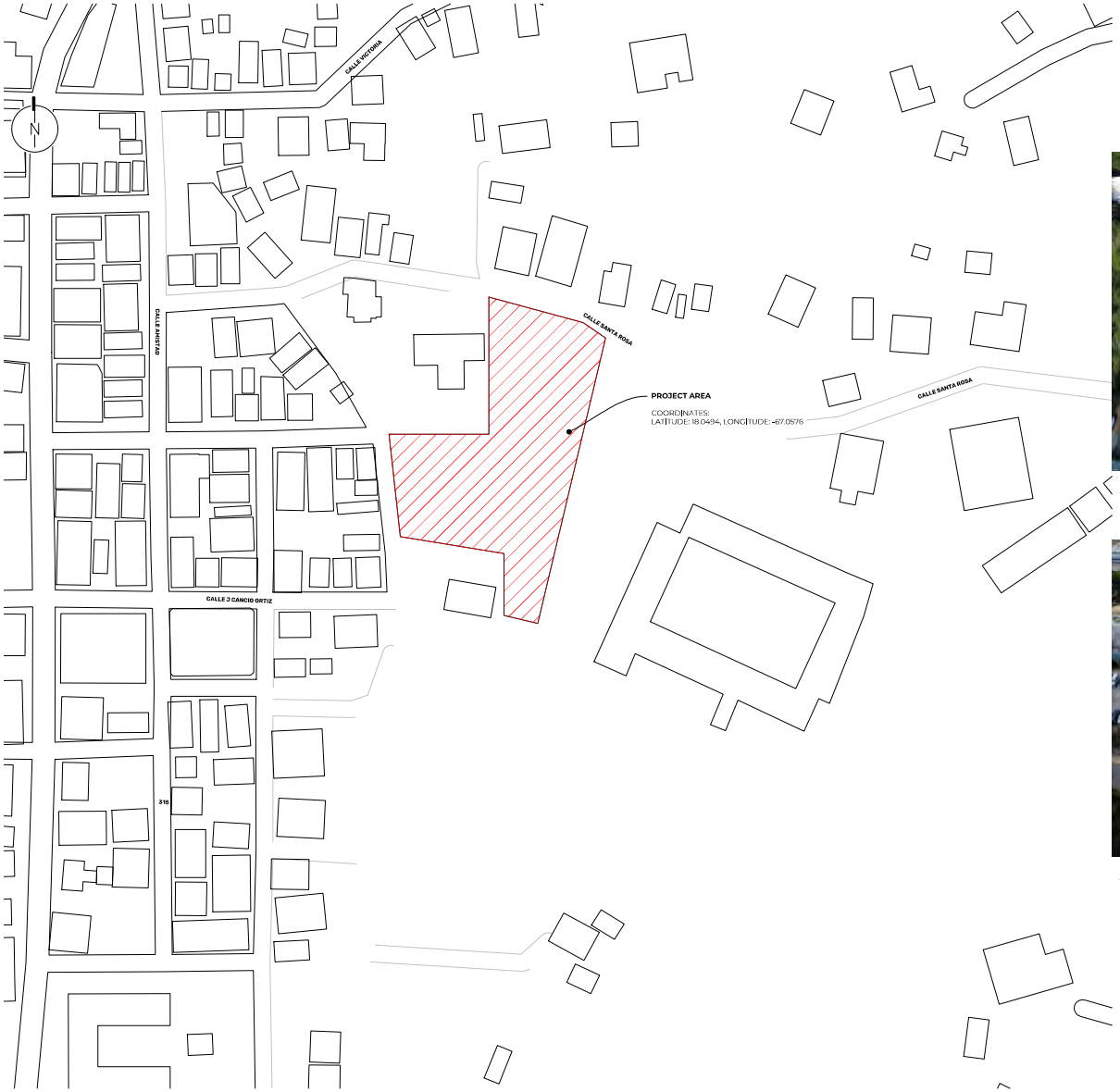
TITLE

TITLE SHEET

DRAWING No.

G100

G E N E R A L S I T E P L A N



1 GENERAL SITE PLAN
SCALE: 1/64" = 1' - 0"

AERIAL VIEW

AERIAL VIEW

PROJECT ADDRESS
PR-CRP-0092 ELDERLY SERVICE CENTER, CALLE FERROCARRIL #11 BO. PUEBLO, LAJAS, P.R. 00667.

GPS LATITUDE/LONGITUDE: 18.04941608, -67.05761236

OWNER
LAJAS MUNICIPALITY

REGISTER No.
3 5 8 - 0 3 2 - 0 7 2 - 0 1

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
--	--	--	--	--

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654 Plaza, San Juan, PR 00918
Tel. (787) 918-5995 / 5991
Email: info@ingenium.group

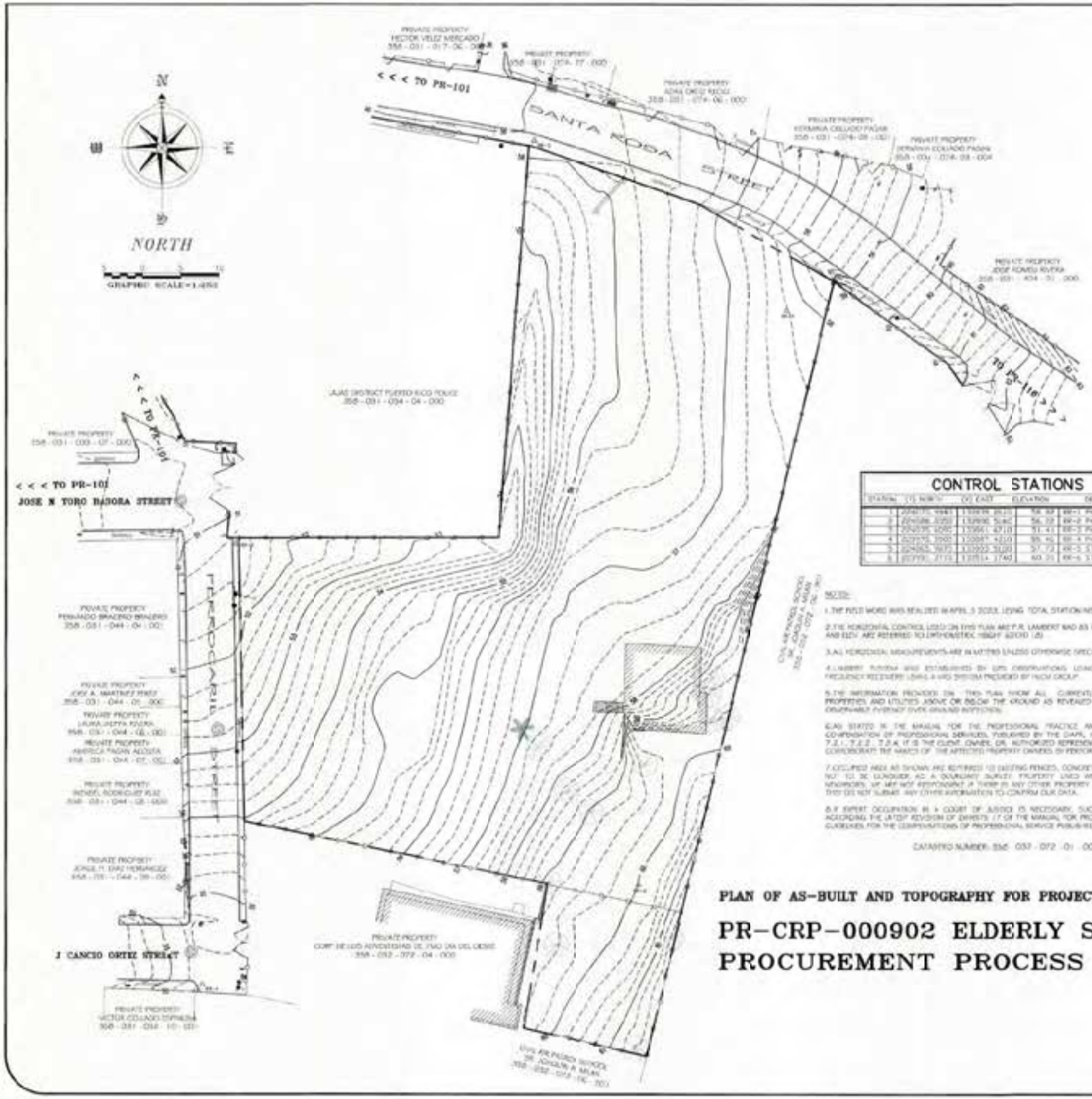
SIGNATURE

William Melendez Rivas — Puerto Rico

FILE
Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
GENERAL SITE PLAN

DRAWING No.
G101



CONTROL STATIONS

STATION	(Y) NORTH	(X) EAST	ELEVATION	DESCRIPTION
1	224035.9981	133939.8533	58.82	#8-1 PK
2	224004.3053	133896.5362	56.12	#8-2 PK
3	223939.1090	133961.4710	51.41	#8-3 PK
4	223974.3900	133987.4200	55.45	#8-4 PK
5	224065.7875	133923.5128	57.72	#8-5 STEEL ROD
6	223991.7119	133914.1740	60.21	#8-6 STEEL ROD

NOTES:

1. THE FIELD WORK WAS REALIZED IN APRIL 3 2023, USING TOTAL STATION INSTRUMENT MAKIN NPL.

2. THE HORIZONTAL CONTROL USED ON THIS PLAN ARE P.R. LAMBERT NAD 83 REV 2011 EPOCH 2010 AND ELEV. ARE REFERRED TO ORTHOMETRIC DATUM (GEOID 18).

3. ALL HORIZONTAL MEASUREMENTS ARE IN METERS UNLESS OTHERWISE SPECIFIED.

4. LAMBERT DATUM WAS ESTABLISHED BY GPS OBSERVATIONS USING TRIMBLE R80 DOUBLE FREQUENCY RECEIVERS USING A VRS SYSTEM PROVIDED BY PAGN GROUP.

5. THE INFORMATION PROVIDED ON THIS PLAN SHOW ALL CURRENTLY EXISTING STRUCTURES, PROPERTIES AND UTILITIES ABOVE OR BELOW THE GROUND AS REVEALED BY PUBLIC RECORDS OR OBSERVABLE EVIDENCE OVER GROUND INSPECTION.

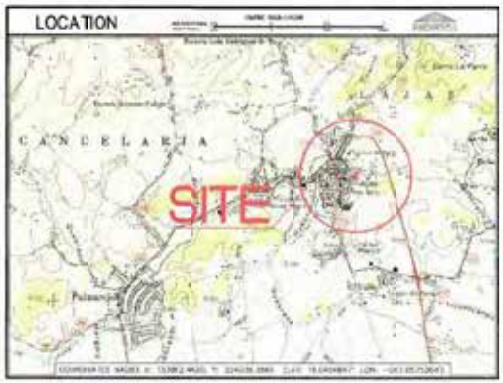
6. AS STATED IN THE MANUAL FOR THE PROFESSIONAL PRACTICE AND GUIDELINES FOR THE COMPENSATION OF PROFESSIONAL SERVICES, PUBLISHED BY THE CIAPR, IN THE SECTIONS 6.2.4.2., 7.2.1., 7.2.2., 7.2.4. IT IS THE CLIENT, OWNER, OR, AUTHORIZED REPRESENTATIVE RESPONSABILITY TO CORROBORATE THE MARCS OF THE AFFECTED PROPERTY OWNERS, BY PERFORMING A TITLE SEARCH.

7. OCCUPIED AREA AS SHOWN ARE REFERRED TO EXISTING FENCES, CONCRETE WALLS AND SIDEWALKS, NOT TO BE CONSIDER AS A BOUNDARY SURVEY. PROPERTY LINES WERE NOT CONFIRMED BY MONUMENTS, WE ARE NOT RESPONSIBLE IF THERE IS ANY OTHER PROPERTY EXISTING IN THIS AREA, IF THIS DID NOT SUBMIT ANY OTHER INFORMATION TO CONFIRM OUR DATA.

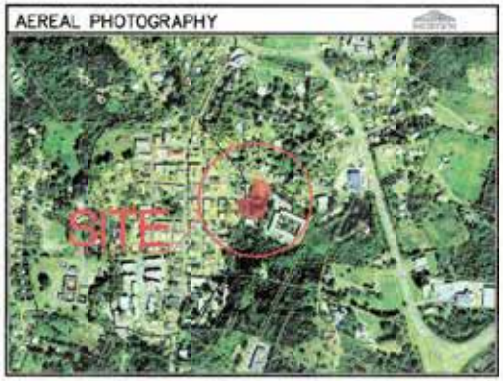
8. IF EXPERT OPPOSITION IN A COURT OF JUSTICE IS NECESSARY, SUCH WORK WILL BE BILLED ACCORDING THE LATEST REVISION OF GRANTS 17 OF THE MANUAL FOR PROFESSIONAL PRACTICE AND GUIDELINES FOR THE COMPENSATIONS OF PROFESSIONAL SERVICE PUBLISHED BY THE CIAPR.

CATASTRO NUMBER: 358 - 032 - 072 - 01 - 000

LOCATION



AEREAL PHOTOGRAPHY



LEGEND:

PLAN OF AS-BUILT AND TOPOGRAPHY FOR PROJECT :

PR-CRP-000902 ELDERLY SERVICE CENTER-LAJAS, PR
PROCUREMENT PROCESS [2022-CRP-LAJ002-01]

OWNER (OWNER):

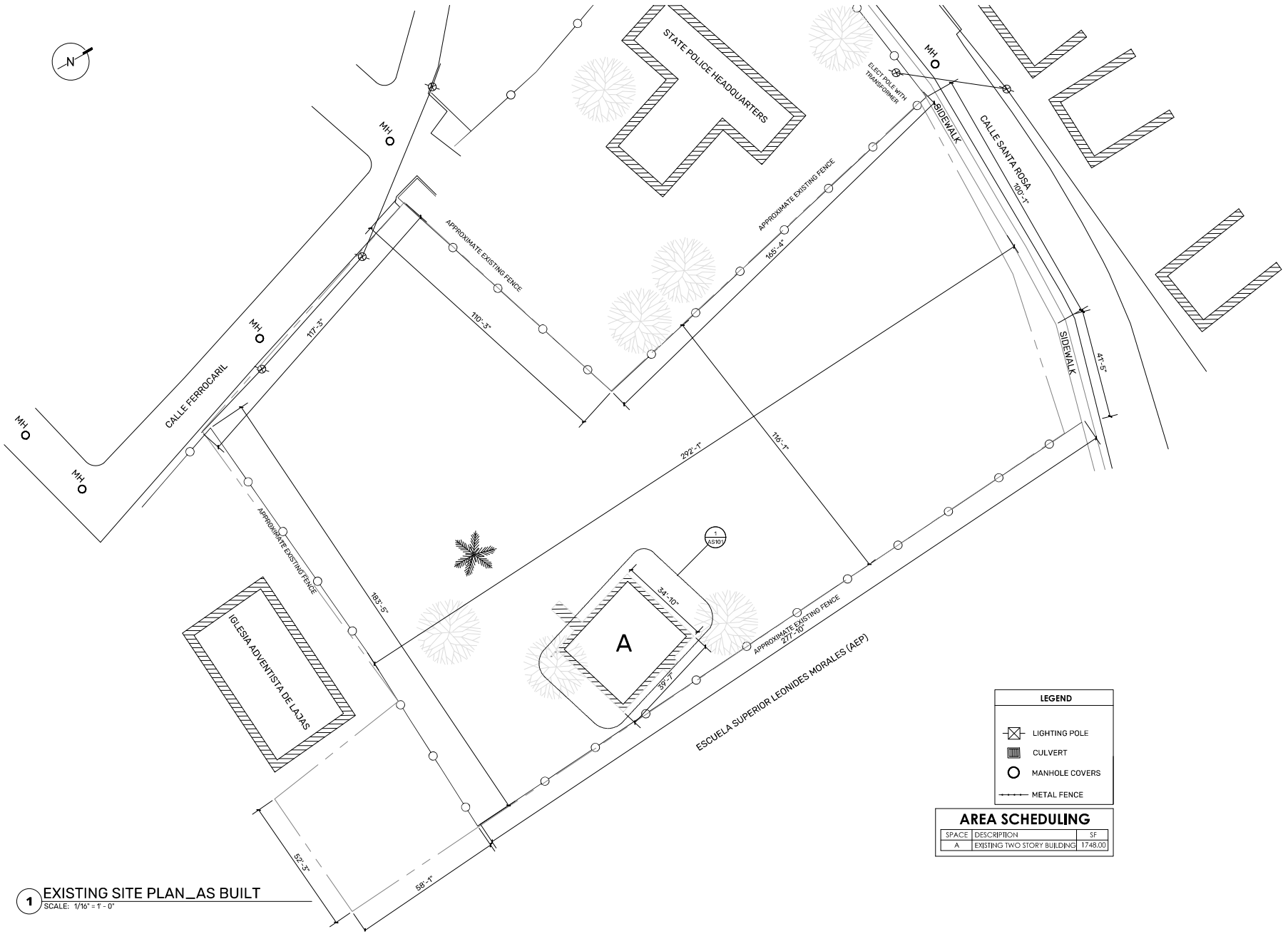
NO.	REVISIONS	DATE
1		
2		
3		

SHEET: LOCATION AND TABLES OF CONTROL STATIONS

SHEET NO. 1 OF 1

NORTH
SANTA ROSA STREET
< < < TO PR-101
TO PR-116 > > >
JOSE M TORO BASORA STREET
J CANCIO ORTIZ STREET
FERROCARIL STREET
PARCEL "A"
AREA =4,742.8575MC.
AREA = 1.2067CDAS.
LEGEND:
NOTES:
CONTROL STATIONS
LOCATION
SITE
AEREAL PHOTOGRAPHY
SITE
SURVEY DATA
PARCEL "A"
AREA = 4,742.8575 sq mt. =0= 1.2067 cdas.
BOUNDARY AREA DETERMINATION SURVEY :
PR-CRP-000902 ELDERLY SERVICE CENTER-LAJAS, PR
PROCUREMENT PROCESS [2022-CRP-LAJ002-01]
LOCATION, SURVEY DATA AND CONTROL STATIONS

E X I S T I N G S I T E P L A N _ A S B U I L T



AREA SCHEDULING

SPACE	DESCRIPTION	SF
A	EXISTING TWO STORY BUILDING	1748.00

1 EXISTING SITE PLAN_AS BUILT
SCALE: 1/16" = 1' - 0"

PROJECT ADDRESS
PR-CRP-0092 ELDERLY SERVICE CENTER, CALLE FERROCARRIL #11 BO. PUEBLO, LAJAS, P.R. 00667.

GPS LATITUDE/LONGITUDE: 18.04941608, -67.05761236

OWNER
LAJAS MUNICIPALITY

REGISTER No.
358-032-072-01

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
--	--	--	--	--

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Tel. (787) 918-5995 / 5991
Email: info@ingenium.group

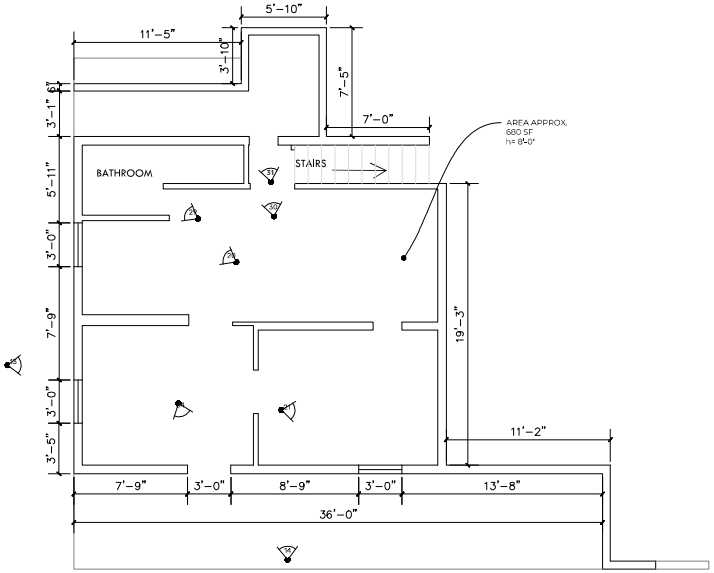
SIGNATURE
William Melendez Rivas, Puerto Rico

FILE
Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

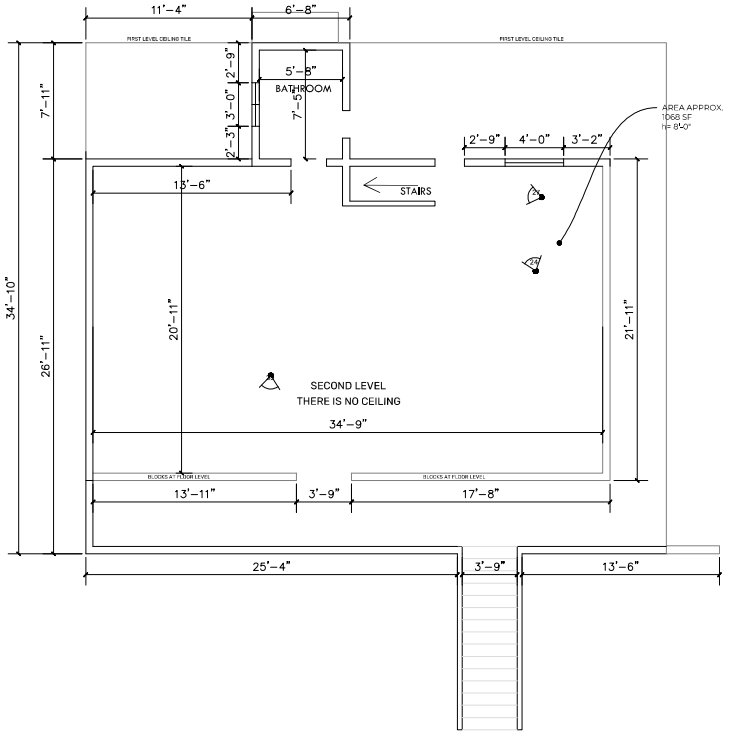
TITLE
EXISTING SITE PLAN_AS BUILT

DRAWING No.
AS100

E X I S T I N G G R O U N D F L O O R P L A N _ A S B U I L T



EXISTING GROUND FLOOR PLAN_BLDG "A"
SCALE: 1/4" = 1' - 0"



EXISTING FIRST FLOOR PLAN_BLDG "A"
SCALE: 1/4" = 1' - 0"

PROJECT ADDRESS
PR-CRP-0092 ELDERLY SERVICE CENTER. CALLE FERROCARRIL #11 BO. PUEBLO, LAJAS, P.R. 00667.

GPS LATITUDE/LONGITUDE: 18.04941608, -67.05761236

OWNER
LAJAS MUNICIPALITY

REGISTER No.
3 5 8 - 0 3 2 - 0 7 2 - 0 1

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
--	--	--	--	--

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664 Ave. Muñoz Rivera - Suite 1838
659 Plaza, San Juan, PR 00733
Tel. (787) 484-5840 / 5841
Email: info@ingenium.pr.group

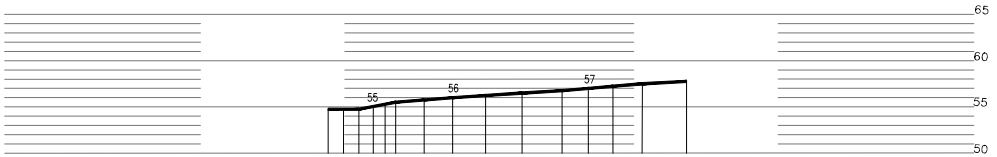
SIGNATURE
William Meléndez Rivas
Puerto Rico

FILE
Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
EXISTING GROUND FLOOR PLAN_AS BUILT

DRAWING No.
AS101

E X I S T I N G S I T E P R O F I L E S



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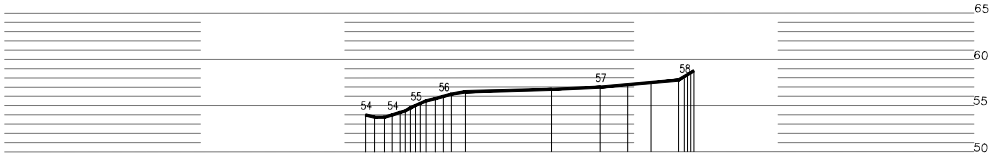

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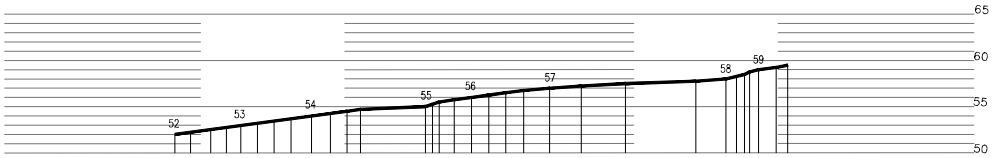

3 EXISTING PROFILE
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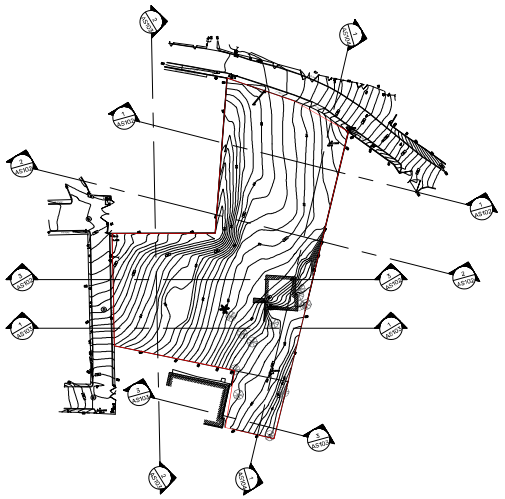
EXISTING SITE PROFILES
SCALE: 1:250



PROJECT ADDRESS
PR-CRP-001058
NUEVO CENTRO RECREATIVO MULTIFUNCIONAL.
PR-8860, ST. JUST, TRUJILLO ALTO, PUERTO RICO.

GPS LATITUDE/LONGITUDE:
18.358823, -66.001789

OWNER
TRUJILLO ALTO MUNICIPALITY

REGISTER No.
1 1 5 - 0 5 0 - 7 4 9 - 0 2

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
--	--	--	--	--

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IPG INGENIUM PROFESSIONAL GROUP
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604 Plaza San Juan, PR 00738
Tel (787) 918-5892 / 5891
email info@ingenium.group

SIGNATURE

FILE

Dwg Name: INGENIUM GROUP

Drawn by: INGENIUM GROUP

Revised by: ING. WILLIAM MELENDEZ

Plot Scale: AS SHOWN

Progress Print:

TITLE

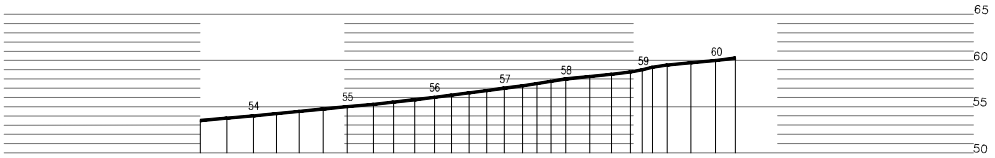
EXISTING SITE PROFILES

DRAWING No.

AS102

PAGE: 7 / 71

E X I S T I N G S I T E P R O F I L E S



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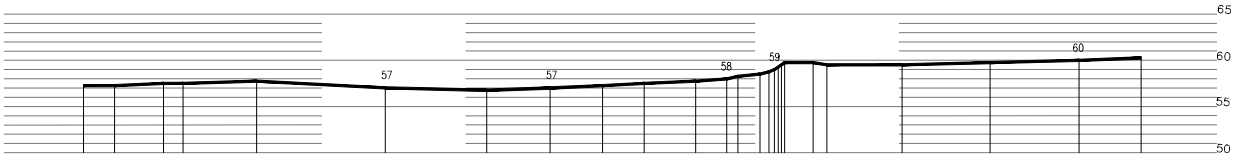

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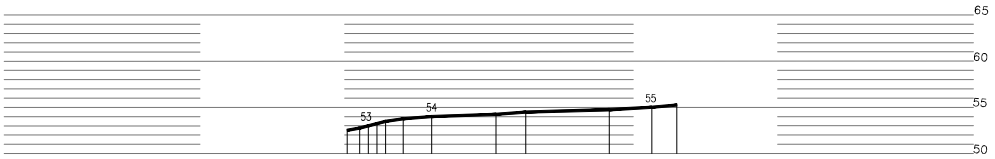

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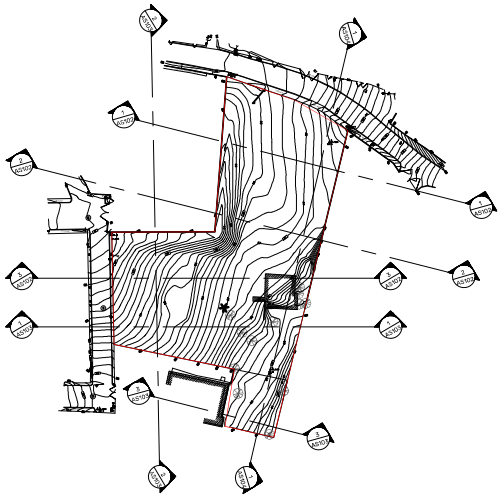
EXISTING SITE PROFILES
SCALE: 1:250



PROJECT ADDRESS
PR-CRP-001058
NUEVO CENTRO RECREATIVO MULTIFUNCIONAL.
PR-8860, ST. JUST, TRUJILLO ALTO, PUERTO RICO.

GPS LATITUDE/LONGITUDE:
18.358823, -66.001789

OWNER
TRUJILLO ALTO MUNICIPALITY

REGISTER No.
1 1 5 - 0 5 0 - 7 4 9 - 0 2

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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IMPORTANT NOTES TO THE CONTRACTOR:

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CERTIFICATION

I, WILLIAM MELENDEZ RIVAS, L.C. 16383, CERTIFY THAT I AM THE PROFESSIONAL WHO [MADE, DESIGNED OR PREPARED] THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 14-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY" AND WITH THE LAW NO. 319 OF MAY 15, 1938, AS AMENDED, ACT NO. 96 OF JULY 6, 1978, AS AMENDED, AS APPLICABLE. I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY IGNORANCE OR NEGLIGENCE EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE COPE.

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FILE

Dwg Name: INGENIUM GROUP

Drawn by: INGENIUM GROUP

Revised by: ING. WILLIAM MELENDEZ

Plot Scale: AS SHOWN

Progress Print:

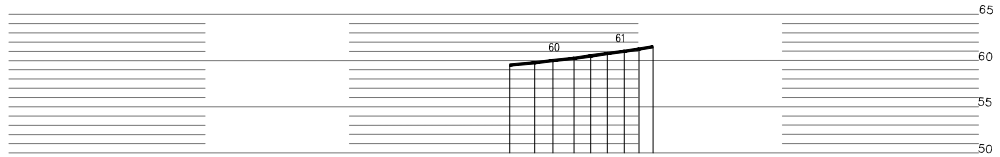
TITLE

EXISTING SITE PROFILES

DRAWING No.

AS103

E X I S T I N G S I T E P R O F I L E S



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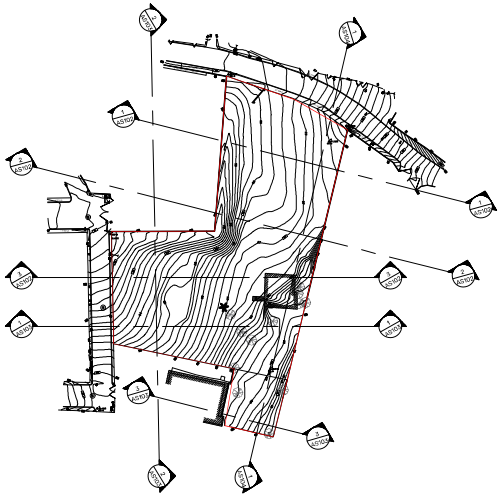
SCALE: 1:250



EXISTING SITE PROFILES
SCALE: 1:250

PROJECT ADDRESS
PR-CRP-001058
NUEVO CENTRO RECREATIVO MULTIFUNCIONAL.
PR-8860, ST. JUST, TRUJILLO ALTO, PUERTO RICO.

GPS LATITUDE/LONGITUDE:
18.358823, -66.001789

OWNER
TRUJILLO ALTO MUNICIPALITY

REGISTER No.
1 1 5 - 0 5 0 - 7 4 9 - 0 2

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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FILE

Dwg Name: INGENIUM GROUP

Drawn by: INGENIUM GROUP

Revised by: ING. WILLIAM MELENDEZ

Plot Scale: AS SHOWN

Progress Print:

TITLE

EXISTING SITE PROFILES

DRAWING No.

AS104

PAGE: 9 / 71

P H O T O D O C U M E N T A T I O N

| FOR MORE LOCATION DETAIL SEE AS2.1

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| FOR MORE LOCATION DETAIL SEE AS2.1

PROJECT ADDRESS
PR-CRP-0092 ELDERLY SERVICE CENTER. CALLE FERROCARRIL #11 BO. PUEBLO, LAJAS, P.R. 00667.

GPS LATITUDE/LONGITUDE: 18.04941608, -67.05761236

OWNER
LAJAS MUNICIPALITY

REGISTER No.
3 5 8 - 0 3 2 - 0 7 2 - 0 1

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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SIGNATURE

William Meléndez Rivas
Puerto Rico

FILE
Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
PHOTO DOCUMENTATION

DRAWING No.
GR100

P R O P O S E D D E M O L I T I O N S I T E P L A N

DEMOLITIONS NOTES:

THE INFORMATION CONTAINED WITHIN THE DRAWINGS OF EXISTING CONDITIONS AND DEMOLITION REQUIRED ARE INCLUDED AS A GENERAL GUIDE TO THE SCOPE OF WORK. THIS INFORMATION IS NOT A DETAILED STUDY OF EXISTING CONDITIONS OR THE DEMOLITION. THE GENERAL CONTRACTOR SHALL MAKE USE OF THESE DRAWING AND INFORMATION AS A TOOL FOR WORKING TO ESTABLISH A WORK PLAN.

1. CONTRACTOR SHOULD MAKE A SELECTIVE DEMOLITION WORK AND FOLLOW ALL SUGGESTIONS AND STANDARDS OF THE GOVERNMENT REGULATIONS. CONTRACTOR SHOULD COORDINATE AND BE UP TO DATE WITH ALL COMPLIANCE MENTIONED.
2. PROPOSED EROSION AND SEDIMENTATION CONTROL PLAN SHALL BE IMPLEMENTED BY THE CONTRACTOR PRIOR TO DEMOLITION ACTIVITIES.
3. CONTRACTOR SHALL IMPLEMENT SAFETY MEASURES DURING DEMOLITION ACTIVITIES TO AVOID ANY TYPE OF ACCIDENT AND DAMAGES TO NEARBY PROPERTIES AROUND THE PROJECT SITE AND THE EXISTING UNDERGROUND UTILITIES TO REMAIN.
4. AREAS SHOWN ON PLAN TO BE DEMOLISHED SHALL BE PROMPTLY REMOVED BUT COORDINATION WITH THE ENGINEERS SHOULD BE MADE PRIOR TO DEMOLITION NOT WITH STANDING, AFFECTED OR DAMAGED ASPHALT, CONCRETE, CURB & GUTTERS, PIPES AND OTHERS BY THE CONTRACTOR, WHICH ARE LOCATED OUTSIDE OF PROJECT LIMIT SHALL BE RECONSTRUCTED IMMEDIATELY.
5. SOME OF THE EXISTING UTILITIES WITHIN PROJECT LIMITS, EXCEPT THOSE INDICATED TO REMAIN, SHALL BE DEMOLISHED AND DISPOSED IN COORDINATION WITH THE ENGINEERS TAKING IN CONSIDERATION THE NEEDS DURING THE DIFFERENT STAGES OF THE DEMOLITION AND THE CONSTRUCTION PHASES.
6. INFORMATION AND NOTES SHOWN ON THE DRAWINGS OR OTHER INFORMATION INADVERTENT OMISSION DOES NOT RELIEVE THE CONTRACTOR GENERAL LIABILITY TO VISIT AND INSPECT THE SITE AND REPORTS OF ALL EXISTING SITE CONDITIONS TO INCLUDE ALL COSTS REQUIRED IN THE PROPOSAL TO COVER ALL DEMOLITION TO COMPLETE THE CONSTRUCTION WORK, AS SHOWN ON THE CONSTRUCTION DOCUMENTS.
7. THE CONTRACTOR SHOULD CHECK WITH THE OWNER PRIOR TO ANY DEMOLITION, ANY AREA OUTSIDE THE LIMITS OF AGREEMENT REQUIRING WORK.
8. THE CONTRACTOR SHALL VISIT AND INSPECT THE ENTIRE AREA OF WORK AND FAMILIARIZE WITH THE EXISTING CONDITIONS.
9. ANY MISCELLANEOUS ELEMENT IN THE DEFINED WORK AREA WHICH HAS NOT BEEN DIRECTLY COVERED BY THE DRAWINGS, WILL BE REMOVED TO PROVIDE A CLEAN SURFACE LEVEL.
10. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE REMOVAL AND LEGAL DISPOSITION (REGULATION) OF DEBRIS OF THE PROJECT. THE GARBAGE CONTAINERS AND RAIN WATERS SYSTEM OF THE OWNER WILL NOT BE USED, THE CONTRACTOR IS RESPONSIBLE OF PROVIDING HIS OWN GARBAGE AND COMPLY WITH THE GENERAL CONDITIONS OF CONTRACTING.
11. THE DEMOLITIONS AN REMOVAL SHOULD BE MADE SAFE, NEAT, CLEAN. THE AREAS MUST BE CLEAN.
12. THE DEMOLITION AND REMOVAL MUST FOLLOW ALL APPLICABLE LAWS AND CODES IN ORDER TO AVOID INJURY TO PERSONS AND/OR ANY PROPERTY DAMAGE.
13. ONCE COMPLETED THE DEMOLITION , THE AREA SHOULD BE CLEAN OF DEBRIS BEFORE THE NEW CONSTRUCTION BEGINS.
14. ANY OBJECT THAT CAN BE REUSED AND DETERMINED BY THE OWNER SHOULD BE CAREFULLY REMOVED, CLEANED AND STORED IN AN AREA DESIGNATED BY THE OWNER.

GENERAL DEMOLITIONS NOTES:

A. THE STRUCTURES TO BE DEMOLISHED CAN BE MODIFIED BY THE DESIGNER.

B. PROTECTION: PROVIDE HALLWAY IF NECESSARY TO ENSURE THE SAFE PASSAGE OF PERSONS AROUND THE AREA OF DEMOLITION. CONDUCT OPERATIONS TO PREVENT DAMAGE BY FALLING DEBRIS OR OTHER TO ADJACENT BUILDINGS STRUCTURES AND OTHER FACILITIES AS WELL AS PERSONS.

C. DAMAGES: PROMPTLY REPAIR DAMAGES CAUSED TO ADJACENT FACILITIES BY DEMOLITIONS OPERATIONS, AS DIRECTED BY THE ARCHITECT AND AT NO COST TO THE OWNER.

D. PARTIAL STRUCTURES DEMOLITION: DEMOLISH PARTS AS INDICATED AND REMOVE FROM THE SITE AS REQUIRED TO COMPLETE THE WORK.

E. REMOVE FROM SITE ALL DEBRIS, RUBBLE AND OTHER MATERIAL RESULTING FROM DEMOLITION. STORAGE OR SALE OF REMOVED MATERIALS WILL NOT BE ALLOWED ON SITE.

NOTES TO THE CONTRACTOR:

I-THE CONTRACTOR WILL BE RESPONSIBLE FOR THE PRESENT AND FUTURE DAMAGES CAUSED TO THE PUBLIC AND PRIVATE PROPERTY BY THE CONSTRUCTION OF THIS PROJECT.

II-THE CONTRACTOR MUST VERIFY THE MEASURES BEFORE STARTING THE WORKS AND NOTIFY THE SUPERVISORY ENGINEER ANY DIFFERENCE IN THE SAME WITH RELATION TO THOSE INDICATED IN THE DRAWINGS.

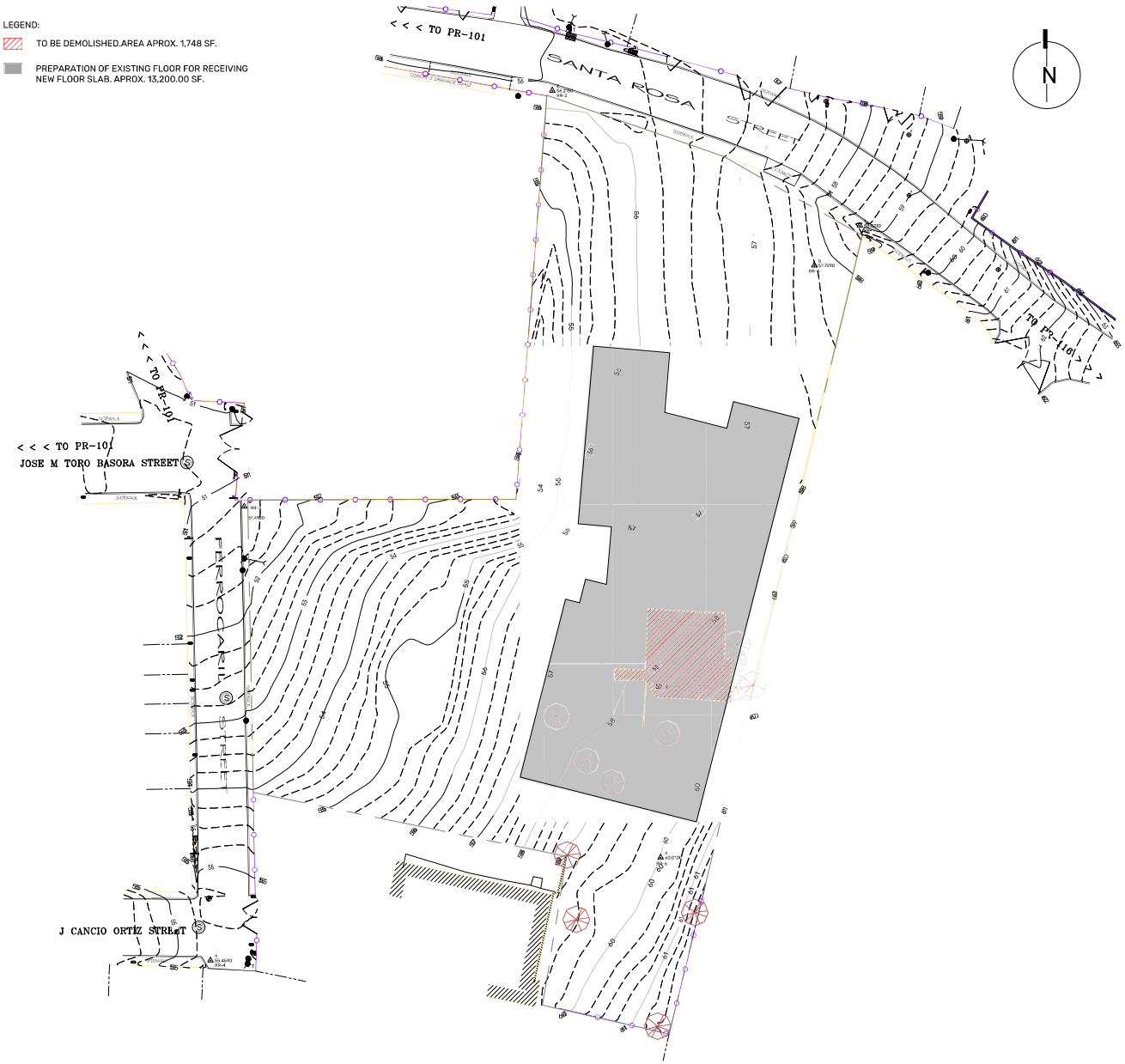
III-THE CONTRACTOR WILL AT ALL TIMES TAKE ALL NECESSARY AND REASONABLE PRECAUTIONS FOR THE SAFETY OF ITS EMPLOYEES AND GENERAL PUBLIC AND COMPLY WITH ALL APPLICABLE LAWS AND REQUIREMENTS FOR THE OCCUPATIONAL SAFETY OF PUERTO RICO ACCORDING TO O.S.H.A. AND THEIR REQUIREMENTS FOR CONSTRUCTION WORKERS

IV-CAUTION SHALL BE TAKEN AS A USE OF FENCE, WOODEN BOARDS AND/OR OTHER MEANS FOR THE SAFETY OF ADJACENT PERSONS AND/OR PROPERTIES.

LEGEND:

TO BE DEMOLISHED.AREA APROX. 1,748 SF.

PREPARATION OF EXISTING FLOOR FOR RECEIVING NEW FLOOR SLAB. APROX. 13,200.00 SF.



1 PROPOSED DEMOLITION PLAN
SCALE: 1:300

PROJECT ADDRESS:
PR-CRP-0092 ELDERLY SERVICE CENTER, CALLE FERROCARRIL #11 BO. PUEBLO, LAJAS, P.R. 00667.

GPS LATITUDE/LONGITUDE: 18.04941608, -67.05761236

OWNER
LAJAS MUNICIPALITY

REGISTER No.
3 5 8 - 0 3 2 - 0 7 2 - 0 1

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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SIGNATURE
William Melendez Rivas, Puerto Rico

FILE
Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
PROPOSED DEMOLITION SITE PLAN

DRAWING No.
C100

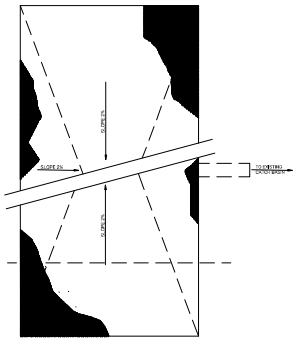
D E M O L I T I O N T Y P I C A L D E T A I L S

GENERAL EROSION & SEDIMENTS CONTROL NOTES

1 ALL CONSTRUCTION OF EROSION AND SEDIMENT CONTROL SHALL COMFORM TO EQB (JCA – JUNTA DE CALIDAD AMBIENTAL) STANDARDS AND AS DESCRIBED HEREIN.
2 AREAS TO BE GRADED SHALL BE CLEARED AND GRUBBED IN ACCORDANCE WITH SPECIFICATIONS. PRESERVE AND PROTECT ALL EXISTING GROUND VEGETATION AND TREES OUTSIDE OF THE CONSTRUCTION LIMITS OR SPECIFICALLY DESIGNATED TO REMAIN.
3 ALL EROSION CONTROL MEASURES SHALL BE PLACED IMMEDIATELY FOLLOWING SITE CLEARING AND GRUBBING AS SHOWN ON THE DRAWING. NO GRADING SHALL BE DONE UNTIL SILT BARRIER INSTALLATION IS COMPLETED.
4 TOPSOIL SHALL BE REMOVED, STOCKPILED, AND SEEDED IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS.
5 THE CONSTRUCTION AREA SHALL BE ROUGH GRAPPED AS SHOWN ON THE DRAWING.
6 DIVERSION DITCHES, SWALES, AND SLOPES SHALL BE CONSTRUCTED AND GRASSED AS SOON AS POSSIBLE TO MINIMIZE EROSION. RIP RAP SHALL BE PLACED AS SHOWN ON THE PLANS AND AS REQUIRED.

GRAVEL CONSTRUCTION ENTRANCE NOTES

1 **STONE SIZE** - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2 **THICKNESS** - NOT LESS THAN 6".
3 **WIDTH** - 10' MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
4 **SURFACE WATER**- ALL SURFACE WATER FLOWING OF DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL A MOUNTABLE BERM WITH 5:1 SLOPE WILL BE PERMITED.
5 **MAINTENANCE** - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OF FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS -OF- WAY REQUIRED PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEAMOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS -OF- WAY MUST BE REMOVED IMMEDIATELY.
6 **WASHING** - WHEEL SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS -OF- WAY.
7 PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

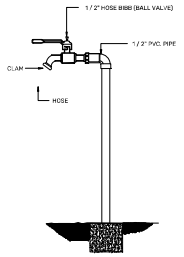


PLAN

SECTION A

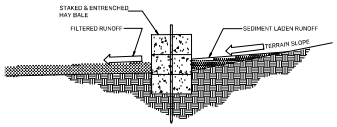
DEMOLITION NOTES

1		**GENERAL**
	1.1	CONTRACTOR MUST BE BECOME FAMILIAR WITH THE PROJECT, THE INTENTION OF THE CONSTRUCTION DOCUMENTS AND THE ARCHITECTS DESIGN IN ORDER TO CARRY OUT SELECTIVE DEMOLITION WORK IN A MANNER THAT IS CONDUCTIVE TO PROPER EXECUTION OF THE PROJECT. IT IS RESPONSIBILITY OF THE CONTRACTOR TO VISIT THE PROJECT ARE BEFORE BIDDING, TO BECOME ACQUAINTED WITH THE SCOPE OF DEMOLITION WORK.
	1.2	DEMOLITION NOTES AND DRAWINGS ARE A GENERAL GUIDE TO THE PROJECT, THE CONTRACTOR IS RESPONSIBLE FOR THE SATISFACTORY COMPLETION OF THE WORK IN A MANNER THAT INVOLVES NO EXTRA COST TO THE OWNER.
	1.3	CONSTRUCTION AREA SHALL BE KEPT CLEAN AND SAFE. DISPOSE OF DEBRIS DAILY AND CLEAN AREAS OF WORK UPON COMPLETION.
	1.4	CONTRACTOR SHALL COMPLY WITH ALL ENVIRONMENTAL AND SAFETY REGULATIONS CONCERNING DEMOLITION WORK, INCLUDING O.S.H.A REQUIREMENTS.
	1.5	CONTRACTOR SHALL NOTIFY THE ARCHITECT IF ANY EXISTING CONDITIONS DISCOVERED DURING THE DEMOLITION PHASE AFFECTS THE PROPOSED CONSTRUCTION PROJECT.
	1.6	THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL OF ALL SALVAGEABLE ITEMS.
	1.7	ALL MATERIALS REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE SPECIFICALLY DESIGNATED TO REMAIN THE PROPERTY OF THE OWNER.
2		**SCOPE**
	2.1	ALL CONSTRUCTION INDICATED TO BE DEMOLISHED SHALL BE REMOVED IN THEIR ENTIRETY INCLUDING FOUNDATION AND ALL ELECTRICAL AND MECHANICAL FACILITIES.
	2.2	REMOVE TREES TO BE ELIMINATED AS INDICATES.
	2.3	REMOVE ROOT SYSTEM TO A MINIMUM DEPTH OF 3'-0" FOR TREES 5'-0" OR FARTHER FROM PROJECTED BUILDING OUTLINE. REMOVE ROOT SYSTEM TO A MINIMUM DEPTH OF 5'-0" FOR TREES WITHIN 5'0" OF PROJECTED BUILDING OUTLINE.
	2.4	ALL SANITARY PIPING CONNECTING THE EXISTING CONSTRUCTION TO AAA FACILITIES SHALL BE REMOVED WITHIN THE PROPERTY AND CONNECTION TO THE AAA PIPE SHALL BE PROPERLY ELIMINATED IN A MANNER CONDUCIVE TO APPROVAL BY AAA PERSONNEL.
	2.5	ALL ELECTRICAL EQUIPMENT AND CONNECTIONS SHALL BE PROPERLY ELIMINATED IN A MANNER THAT IS CONDUCTIVE TO APPROVAL BY AEE PERSONNEL. ALL ELECTRICAL DEMOLITION SHALL BE PERFORMED BY OR UNDER THE SUPERVISION OF A LICENSED ELECTRICIAN. ALL ELECTRICAL WORK SHALL CONFORM TO ALL APPLICABLE REGULATION.
	2. 6	CONTRACTOR SHALL PROVIDE BACKFILL TO ALL EXCAVATIONS LEFT AFTER DEMOLITION IN AREAS NEAR STREET AND ADJOINING PROPERTIES IN ORDER TO GUARANTEE THE STRUCTURAL INTEGRITY OF EXISTING CONSTRUCTION. BACKFILL SHALL BE SIMILAR IN TYPE AND DENSITY TO EXISTING SOIL AND DEPOSITED ACCORDING TO ACCEPTABLE ENGINEERING STANDARDS, UNDER THE SUPERVISION OF A LICENSED ENGINEER. THE CONTRACTOR SHALL NOTIFY THE DESIGNER IF ANY PRECAUTIONS OR ADDITIONAL WORK NEEDS TO BE PERFORMED IN ORDER TO COMPLY WITH THIS REQUIREMENT.
3		**PROTECTION AND DAMAGE**
	3.1	PROTECT ITEMS NOT BEING REMOVED FROM DAMAGE DURING DEMOLITION.
	3. 2	PROTECT ALL ADJACENT PROPERTY FROM DAMAGE DURING DEMOLITION.
	3. 3	CONTRACTOR SHALL NOTIFY THE ARCHITECT IF DEMOLITION WORK APPEARS TO AFFECT THE STRUCTURAL INTEGRITY OF ANY EXISTING BUILDING BEFORE PROCEEDING.
	3. 4	THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO EXISTING FACILITIES TO REMAIN RESULTING FROM WORK UNDER THIS CONTRACT, AND SHALL RESTORE SUCH DAMAGE TO IT'S ORIGINAL CONDITION.
	3. 5	COORDINATE WITH NEIGHBORS IF ANY LABOR REQUIRES DISTURBANCE OF ADJACENT PROPERTY.
4		**DISPOSAL AND DOCUMENTATION**
	4.1	DISPOSE OF ALL REFUSE AND CONSTRUCTION DEBRIS IN LEGAL DUMP SITES AND PROVIDE ARCHITECT WITH DOCUMENTATION REGARDING PLACE OF DISPOSAL, MATERIALS DISPOSED, QUANTITY AND DATE. PAYMENT OF ALL DISPOSAL FEES IS THE RESPONSIBILITY OF THE CONTRACTOR AND ALL QUANTITIES ARE PART OF THE CONTRACT.
	4. 2	DISPOSAL OF REFUSE AND CONSTRUCTION DEBRIS IN ILLEGAL LOCATIONS WILL BE CONSIDERED A GRAVE OFFENSE AND REASON FOR IMMEDIATE TERMINATION OF CONSTRUCTION CONTRACT.

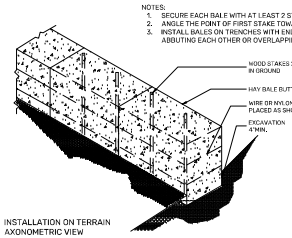


1 VEHICLE TIRE WASHING PAD
SCALE: NOT TO SCALE

2 TEMPORARY HOSE BIBB INSTALLATION DETAIL
SCALE: NOT TO SCALE

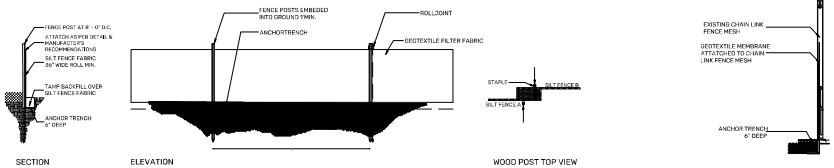


SECTION VIEW



INSTALLATION ON TERRAIN
AXONOMETRIC VIEW

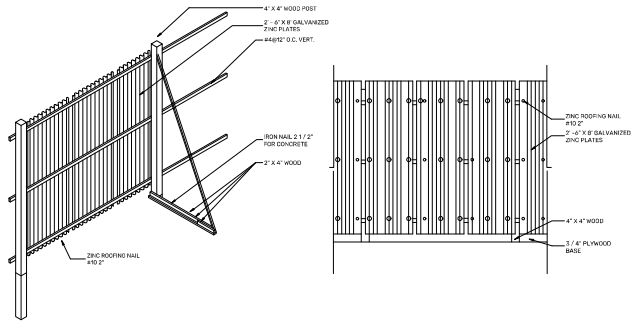
3 HAY BALE ANCHORING DETAILS
SCALE: NOT TO SCALE



SECTION ELEVATION WOOD POST TOP VIEW

4 SILT FENCE DETAILS
SCALE: NOT TO SCALE

5 ALTERNATIVE SILT FENCE INSTALLATION DETAIL
SCALE: NOT TO SCALE



AXONOMETRIC VIEW ELEVATION VIEW

6 TEMPORARY FENCE DETAILS
SCALE: NOT TO SCALE

PROJECT ADDRESS
PR-CRP-0092 ELDERLY SERVICE CENTER, CALLE FERROCARRIL #11 BO. PUEBLO, LAJAS, P.R. 00667.

GPS LATITUDE/LONGITUDE:
18.04941608, -67.05761236

OWNER
LAJAS MUNICIPALITY

REGISTER No.
3 5 8 - 0 3 2 - 0 7 2 - 0 1

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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IMPORTANT NOTES TO THE CONTRACTOR:
CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE PROCEEDING WITH WORK. IF ANY DISCREPANCIES, ERRORS OR OMISSIONS SHOULD BE ENCOUNTERED ON PLANS, CONTRACTOR SHALL NOTIFY THE ENGINEER BEFORE ANY PART OF THE WORK IS STARTED SO THAT PROPER CORRECTIONS ARE MADE. IF ENGINEER IS NOT NOTIFIED PRIOR TO COMMENCING OF THE WORK, ALL DASIGNS AND DRAWINGS HEREIN AND PRINTS ISSUED BY THE ENGINEER ARE THE PROPERTY OF THE ENGINEER AND SHALL NOT BE REUSED ON ANY OTHER LOCATION EXCEPT THE ONT FOR WHICH THEY EXPRESS,Y DESIGNED. IF THESE DRAWINGS OR ANY PART THEREOF IS REPRODUCED WITHOUT THE CONSENT OF THE ENGINEER, THE PERSON WHO IS DOING WILL BE INDEBTED TO THE ENGINEER FOR HIS FULL COMMISION. CONTRACTOR SHALL NOT USE FOR CONSTRUCTION PURPOSES ANY DRAWINGS THAT WERE NOT ISSUED TO HIM PRIOR TO THE BEGINNING OF CONSTRUCTION. ALL PLANS BEING USED BY CONTRACTOR SHOULD HAVE A LABEL SAYING "FOR CONSTRUCTION ONLY" SIGNED AND SEALED BY THE ENGINEER.

CERTIFICATION
I, WILLIAM MELENDEZ RIVAS, LIC. 16353, CERTIFY THAT I AM THE PROFESSIONAL WHO [MADE, DESIGNED OR PREPARED] THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS WAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 14-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT IN THE PUERTO RICAN INDUSTRY" AND WITH THE [LAW NO. 319 OF MAY 15, 1938, AS AMENDED; ACT NO. 96 OF JULY 6, 1978, AS AMENDED, AS APPLICABLE] I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY IGNORANCE OR NEGLIGENCE EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE OGPE.

INGENIUM PROFESSIONAL GROUP
654 Ave. Muñoz Rivera • Suite 1500
664 Plaza, San Juan, PR 00918
Tel. (787) 919-5993 / 5991
Email: info@ingeniumgroup

SIGNATURE

FILE
Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
DEMOLITION TYPICAL DETAILS

DRAWING No.
C101

ARCHITECTURAL NOTES

GENERAL NOTES:

1. THESE GENERAL NOTES ARE NOT INTENDED TO REPLACE SPECIFICATIONS. SEE SPECIFICATIONS FOR REQUIREMENTS IN ADDITION TO GENERAL NOTES.

2. REFER TO THE GENERAL CONDITIONS AND DIVISION 1 "GENERAL REQUIREMENTS IN THE SPECIFICATIONS.

3. CONTRACTOR AND ALL TRADES SHALL NOTE REQUIREMENTS OF "GENERAL NOTES" ON ALL SHEETS.

4. WHERE INFORMATION MAY BE AT VARIANCE BETWEEN PLANS AND SPECIFICATIONS, THE PLANS SHALL GOVERN. HOWEVER, IF CERTAIN INFORMATION IS NOTED ONLY ON THE PLANS OR ONLY IN THE SPECIFICATIONS, THE INFORMATION WILL BE CONSIDERED AS VALID AS BEING NOTED ON PLANS AND IN THE SPECIFICATIONS.

5. THE CONTRACTOR SHALL VISIT THE PROJECT SITE TO VERIFY EXISTING CONDITION AND IDENTIFY VISIBLE PROBLEM AREAS OR DIFFICULTIES IN ORDER TO INCLUDE ALL COST IN BASE BID.

6. IF SPACE IS AVAILABLE, THE OWNER MAY PERMIT THE CONTRACTOR TO STORE SOME MATERIALS, EQUIPMENTS AND TOOLS ON THE SITE IN AN AREA APPROVED BY THE OWNER. THE CONTRACTORS ACCEPTS FULL RESPONSIBILITY FOR ANY AND ALL STORED MATERIALS, EQUIPMENTS AND TOOLS.

7. THE GENERAL CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND GRADE CONDITIONS, (BOTH NEW AND EXISTING) REPORTING ANY DISCREPANCIES TO THE ARCHITECT/ ENGINEER PRIOR TO ORDERING MATERIALS OR PROCEEDING WITH ANY PHASE OF THE WORK.

8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL MATERIALS (UNLESS NOTED OTHERWISE) AND WORKMANSHIP IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL BUILDING CODES AND THEIR REQUIREMENTS.

9. GENERAL CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ARCHITECT/ENGINEER APPROVAL FOR ALL ITEMS CALLED FOR OR INDICATED ON PLANS BUT NOT SPECIFICALLY DETAILED, WHERE FURTHER CLARIFICATION FOR CONSTRUCTION IS REQUIRED, THE ARCHITECT/ ENGINEER WILL SUBMIT DETAILS ON REQUEST.

10. ALL WORK SHALL BE DONE IN A THOROUGH AND WORKMANLIKE MANNER IN ACCORDANCE WITH THE APPLICABLE SPECIFICATIONS AND DRAWINGS. THE LATEST EDITION OF THE APPLICABLE CODES (FOR ANY SPECIFIC WORK) SHALL BE FALLOWED EXCEPT WHERE LOCAL REGULATIONS ARE MORE STRINGENT IN WHICH CASE LOCAL REGULATIONS SHALL GOVERN.

11. THE CONTRACTOR SHALL COMPARE STRUCTURAL SECTIONS WITH ARCHITECTURAL SECTIONS AND REPORT ANY DISCREPANCY TO THE ARCHITECT/ENGINEER PRIOR TO FABRICATION OR INSTALLATION OF STRUCTURAL MEMBERS.

12. REFER TO ALL CONSTRUCTION DOCUMENTS FOR REQUIREMENTS WHICH MAY AFFECT THE WORK IN ANOTHER DISCIPLINE AND COORDINATE WORK.

13. DIMENSIONS ARE FACE OF CONCRETE, FACE OF MASONRY, AND CENTER LINE OF ANY PARTITIONS UNLESS INDICATED OTHERWISE.

14. REFER TO DETAILS FOR ADDITIONAL DIMENSIONAL INFORMATION.

15. SEE ARCHITECTURAL DRAWINGS FOR FLOOR ELEVATIONS, FLOOR SLOPES AND THE LOCATION OF DEPRESSED FLOOR AREAS.

16. ELEVATIONS INDICATED ON THE GENERAL, ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, FIRE PROTECTION AND PLUMBING DRAWINGS AMONG OTHERS ARE BASED ON AN ASSIGNED REFERENCE ELEVATION OF THE CURRENT FINISH FLOOR ELEVATION. THE ACTUAL FIRST FLOOR ELEVATIONS ARE BASED ON THE DATUM SHOWN ON THE TOPOGRAPHIC AS-BUILT, EXISTING GRADING PLAN AND/OR THE PROPOSED GRADING PLAN SHEETS.

17. PRINCIPAL OPENINGS IN THE STRUCTURE ARE SHOWN ON THESE DRAWINGS. THE GENERAL CONTRACTOR SHALL EXAMINE THE ARCHITECTURAL MECHANICAL AND PLUMBING DRAWINGS FOR REQUIRED OPENINGS AS THEY SHALL BE PROVIDED FOR WHETHER SHOWN ON THESE DRAWINGS OR NOT. GENERAL CONTRACTOR SHALL VERIFY SIZE AND LOCATION OF ALL OPENINGS WITH ALL SUB-CONTRACTORS PRIOR TO CONSTRUCTION.

18. DO NOT SCALE DIMENSIONS FROM DRAWINGS. THE CONTRACTOR SHALL REQUEST, FROM THE ARCHITECT/ ENGINEER NECESSARY DIMENSIONS NOT SHOWN ON THE DRAWINGS.

19. IF ANY BIDDER IS IN DOUBT AS TO THE INTENT OF THE PLANS OR SPECIFICATIONS, THEY SHALL REQUEST AN INTERPRETATION FROM THE ARCHITECT/ENGINEER IN WRITING AT LEAST TEN (10) DAYS PRIOR TO THE BID DATE.

20. THE WORD "PROVIDE" MEANS "FURNISH AND INSTALL".

21. THE STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE, AND, EXCEPT WHERE SPECIFICALLY SHOWN, DO NOT INDICATE THE METHOD OR MEANS OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, PROCEDURES, TECHNIQUES, AND SEQUENCE. ALL APPLICABLE SAFETY REGULATIONS TO BE FOLLOWED STRICTLY.

22. THE STRUCTURE AS BEEN DESIGNED TO RESIST DESIGN LOADS ONLY AS A COMPLETED STRUCTURE. APPLICATIONS OF CONSTRUCTION LOADS TO THE PARTIALLY COMPLETED STRUCTURE SHALL BE CONSIDERED BY THE CONTRACTOR AND SO INCLUDED IN THE DESIGN OF SHORING, BRACING, FRAMEWORK, AND ANY OTHER SUPPORTING ELEMENTS PROVIDED FOR CONSTRUCTION OF THE STRUCTURE. DURING ERECTION AND UNTIL ALL PERMANENT CONNECTIONS ARE MADE, THE CONTRACTOR MUST PROVIDE TEMPORARY BRACING FOR THE STRUCTURE IN ALL DIRECTIONS.

23. SEE PLANS AND SPECIFICATIONS FOR ALL WORKS REQUIRING INSPECTION, TESTING AND/OR CERTIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE THOSE WORKS.

24. THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN CLEAN AT ALL TIME THE CONSTRUCTION SITE. THE CONTRACTOR ALSO SHALL BE RESPONSIBLE OF REMOVE AND DISPOSE OUT OF PROPERTY ALL THE DEBRIS AND GARBAGE GENERATED BY THE CONSTRUCTION WORKS.

25. THE CONTRACTOR SHALL MADE ALL REASONABLE EFFORTS TO RECYCLE AND RECOVER CONSTRUCTION AND DEMOLITION WASTE FROM THE PROJECT. A MINIMUM OF 50% BY WEIGHT, OF TOTAL PROJECT SOLID WASTE SHALL BE DIVERTED FROM THE LANDFILL IN ACCORDANCE WITH THE EXECUTIVE ORDER 13423 "STRENGTHENING FEDERAL ENVIRONMENTAL, ENERGY AND TRANSPORTATION MANAGEMENT" JANUARY 24, 2007.

26. THE CONTRACTOR SHALL PROVIDE ON-SITE INSTRUCTIONS FOR SEPARATING, HANDLING, RECYCLING SALVAGE, REUSE AND RETURN METHODS TO BE USED BY ALL PARTIES AT THE APPROPRIATE STAGES OF THE PROJECT. RECORDS SHALL BE MAINTAINED TO DOCUMENT THE QUANTITY OF WASTE DISPOSED OF BY LANDFILL OR INCINERATION. THE CONTRACTOR SHALL SUBMIT THIS REPORT AND THE DISPOSAL MANIFESTO OF ALL NON-HAZARDOUS CONSTRUCTION AND DEMOLITION WASTE GENERATION.

27. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING, FOLLOW UP AND OBTAINING ALL APPLICABLE PERMITS FOR THE REALIZATION OF THE PROJECT AS PER JOINT PERMIT REGULATIONS FOR BUILDING PERMITS AND LAND USE ADOPTED BY THE PERMIT MANAGEMENT OFFICE (OGPE IN SPANISH) UNDER LAW 161 AND FOR ANY AUTONOMOUS MUNICIPALITY OF THE COMMONWEALTH OF PUERTO RICO, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

SINGLE OPERATIONAL INCIDENTAL PERMIT (PUI) AND/OR PERMITS FOR INSTALLATION OF SIGNS AMONG OTHERS.

ABBREVIATIONS:

A

ø	—	DIAMETER OR ROUND
#	—	POUND OR NUMBER
A/C	—	AIR CONDITIONER
AHU	—	AIR HANDLING UNIT
ALUM.	—	ALUMINUM
APPX.	—	APPROXIMATE
ARCH.	—	ARCHITECTURAL
ASH	—	AUTOMATIC SPRINKLER HEAD
ASR	—	AUTOMATIC SPRINKLER RISER
ASU	—	AIR SUPPLY UNIT
AUX.	—	AUXILIARY
AV	—	AUDIO VISUAL
AVG.	—	AVERAGE
AVT	—	AIR VENT

B

BD.	—	BOARD
BLDG.	—	BUILDING
BLKG.	—	BLOCKING
BM.	—	BEAM
BPL	—	BASE PLATE
BRG.	—	BEARING
BRCG.	—	BRACING

C

CAB.	—	CABINET
CAV.	—	CAVITY
CEM.	—	CEMENT
CB	—	CATCH BASIN
CBP	—	CEMENT BOARD WITH PLASTER
CJ	—	CONTROL JOINT
CL	—	CENTER LINE
CLG.	—	CEILING
CLO.	—	CLOSET
CMU	—	CONCRETE MASONRY UNIT
CO	—	CLEAN OUT
COL.	—	COLUMN
CONC.	—	CONCRETE
CONF.	—	CONFERENCE
CONSTR—		CONSTRUCTION
CONT.	—	CONTINUOS
CORR.	—	CORRIDOR
CS	—	CONCRETE SEALED
CT	—	CERAMIC TILE
CU FT	—	CUBIC FEET
CU YD	—	CUBIC YARD
CW	—	COLD WATER PIPING

D

D	—	DEEP DEPTH
DBL.	—	DOUBLE
DET.	—	DETAIL
DIA.	—	DIAMETER
DIM.	—	DIMENSION
DN.	—	DOWN
DMPR.	—	DAMPER
DR.	—	DOOR
DS.	—	DOWNSPOUT
DWG.	—	DRAWING

E

EA.	—	EACH
EF	—	EACH FACE
ELEV.	—	ELEVATION
ELEC.	—	ELECTRICAL
EQ	—	EQUAL/-LY
EQUIP.	—	EQUIPMENT
EXIST.	—	EXISTING
EXP.	—	EXPANSION
EXT.	—	EXTERIOR

F

F/	—	FACE OF
FD	—	FLOOR DRAIN
FE	—	FIRE EXTINGUISHERS
FF	—	FINISH FLOOR
FDTN.	—	FOUNDATION
FH	—	FIRE HYDRANT
FIN.	—	FINISH
FLUOR.	—	FLUORESCENT
FR.	—	FRAME
FRTW	—	FIRE RETARDANT TREATED WOOD
FTG.	—	FOOTING

G

GA.	—	GAGE
GALV.	—	GALVANIZED
GEN.	—	GENERAL
GWB	—	GYPSUM WALL BOARD

H

HB	—	HOSE BIBB
HC	—	HOLLOW CORE
HDW	—	HARDWARE
HM	—	HOLLOW METAL
HORIZ.	—	HORIZONTALLY
HP	—	HIGH POINT
HR.	—	HOUR
HVAC	—	HEATING, VENTILATION, A/C
HW	—	HOT WATER PIPING
HWY	—	HIGHWAY

I

ID	—	INTERIOR DESIGN
INCL.	—	INCLUDED
INT.	—	INTERIOR

J

JAN.	—	JANITOR
JT.	—	JOINT

K

KIT.	—	KITCHEN

L

LAM.	—	LAMINATE/ION
LAV.	—	LAVATORY
LBL.	—	LABEL
LH	—	LEFT HAND
LP	—	LOW POINT
LTD.	—	LIMITED
LTWT	—	LIGHTWEIGHT
LVR.	—	LOUVER

M

MAINT.	—	MAINTENANCE
MAS.	—	MASONRY
MATL.	—	MATERIAL
MAX.	—	MAXIMUM
MED.	—	MEDIUM
MECH.	—	MECHANICAL
MFR.	—	MANUFACTURER
MH.	—	MANHOLE
MID.	—	MIDDLE
MIN.	—	MINIMUM
MISC.	—	MISCELLANEOUS
MO	—	MASONRY OPENING
MTD	—	MOUNTED, MOUNTING
MTL.	—	METAL

N

NA	—	NOT APPLICABLE
NIC	—	NOT IN CONTRACT
NO.	—	NUMBER
NTS	—	NOT TO SCALE

O

OC	—	ON CENTER
OFF.	—	OFFICE
OPEN.	—	OPENNING
OPT.	—	OPTIONAL

P

PAR.	—	PARALLEL
PERIM.	—	PERIMETER
PH.	—	PHASE
PLBG.	—	PLUMBING
PNL.	—	PANEL
PROJ.	—	PROJECT
PROP.	—	PROPERTY
PTD.	—	PAINTED
PTE	—	EPOXY PAINT
PVC	—	POLYVINYLCHLORIDE
PWD.	—	PLYWOOD

Q

QTY.	—	QUANTITY
QT	—	QUARRY TILE

R

R.	—	RADIUS
RD	—	ROOF DRAIN
REC.	—	RECESSED
RECT.	—	RECTANGULAR
RD.	—	ROAD
REINF.	—	REINFORCE
REV.	—	REVISION
RFG.	—	ROOFING
RH	—	RIGHT HAND
RI.	—	RISER
RM.	—	ROOM
RO	—	ROUGH OPENING
ROW	—	RIGHT OF WAY
RV	—	ROOF VENT

S

SAN.	—	SANITARY
SC	—	SOLID CORE
SCLG	—	SUSPENDED CEILING
SCHED.	—	SCHEDULE
SCP	—	SMOOTH CEMENT PLASTER
SCWD	—	SOLID CORE WOOD
SD	—	SMOKE DETECTOR
SL	—	SEA LEVEL
SF	—	SQUARE FOOT
SGL.	—	SINGLE
SHT.	—	SHEET
SIM.	—	SIMILAR
SQ. FT.	—	SQUARE FOOT
SQ. IN.	—	SQUARE INCH
SQ. YD.	—	SQUARE YARD
SP	—	STAND PIPE
SPECS.	—	SPECIFICATIONS
SS	—	STORM SEWER
S/S	—	STAINLESS STEEL
ST.	—	STREET
STR.	—	STAIR
STO.	—	STORAGE
STD.	—	STANDARD
STL.	—	STEEL
STRUC.	—	STRUCTURAL
SUSP.	—	SUSPENDED
SW.	—	SWITCH
SWR.	—	SEWER

T

T/	—	TOP OF
TD	—	TRENCH DRAIN
TEL.	—	TELEPHONE
TEMP.	—	TEMPORARY
TERM.	—	TERMINAL
THK	—	THICK/-NESS
THRU.	—	THROUGH
TR.	—	TREAD
TS	—	TUBE STEEL
TV.	—	TELEVISION
TYP.	—	TYPICAL

U

UNO	—	UNLESS NOTED OTHERWISE
UR.	—	URINAL
UTIL.	—	UTILITY

V

VAN.	—	VANITY
VAR.	—	VARIES
VCT	—	VINYL CONPOSITION TILE
VERT.	—	VERTICAL/-LY
VEST	—	VESTIBULE
VIF	—	VERIFY IN FIELD
VOL.	—	VOLUME
VS	—	VENT STACK
VWC	—	VINYL WALL COVERING

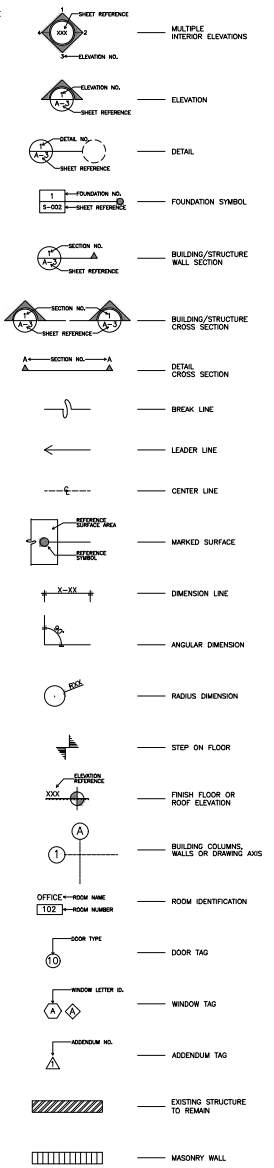
W

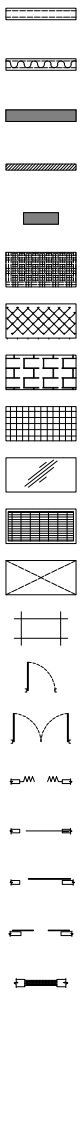
W/	—	WITH
W/O	—	WITHOUT
W/W	—	WALL TO WALL
WC	—	WATER CLOSET
WD.	—	WOOD
WH	—	WATER HEATER
WT.	—	WEIGHT
WWF	—	WELDED WIRE FABRIC

Y

YD	—	YARD DRAIN

GENERAL SYMBOLS LEGEND:





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OWNER

LAJAS MUNICIPALITY

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CERTIFICATION

I, WILLIAM MELENDEZ RIVAS, LIC. 16353, CERTIFY THAT I AM THE PROFESSIONAL WHO [MADE, DESIGNED OR PREPARED] THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS WAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 14-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT IN THE PUERTO RICAN INDUSTRY" AND WITH THE [LAW NO. 319 OF MAY 15, 1938, AS AMENDED] ACT NO. 96 OF JULY 4, 1978, AS AMENDED, AS APPLICABLE]. I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY IGNORANCE OR NEGLIGENCE EITHER BY ME OR MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE OGPE.

INGENIUM PROFESSIONAL GROUP
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Email: info@ingeniumpr.com

SIGNATURE

William Melendez Rivas
LIC. 16353
P.E.
Puerto Rico

FILE

Dwg Name: INGENIUM GROUP

Drawn by: INGENIUM GROUP

Revised by: ING. WILLIAM MELENDEZ

Plot Scale: AS SHOWN

Progress Print:

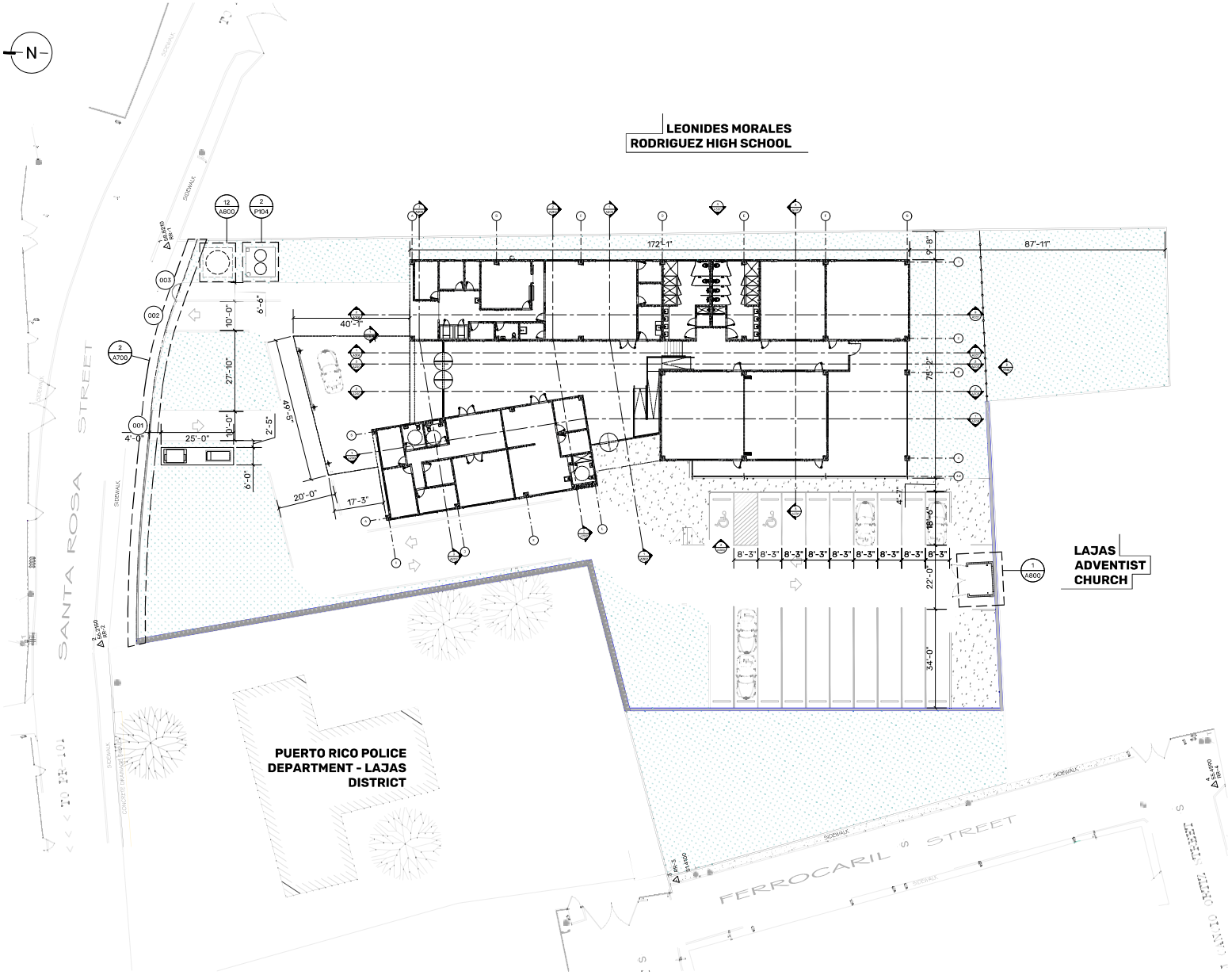
TITLE

ARCHITECTURAL NOTES

DRAWING No.

A001

P R O P O S E D G R O U N D S I T E P L A N



1 PROPOSED GROUND SITE PLAN

SCALE: 1/16" = 1'-0"

PROJECT ADDRESS

PR-CRP-0092 ELDERLY SERVICE CENTER. CALLE FERROCARRIL #11 BO. PUEBLO, LAJAS, P.R. 00667.

GPS LATITUDE/LONGITUDE: 18.04941608, -67.05761236

OWNER

LAJAS MUNICIPALITY

REGISTER No.

3 5 8 - 0 3 2 - 0 7 2 - 0 1

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
--	--	--	--	--

IMPORTANT NOTES TO THE CONTRACTOR:

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CERTIFICATION

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SIGNATURE

William Meléndez Rivas
Ingeniero Licenciado
Lic. 16383 P.R.
Puerto Rico

FILE

Dwg Name: INGENIUM GROUP

Drawn by: INGENIUM GROUP

Revised by: ING. WILLIAM MELENDEZ

Plot Scale: AS SHOWN

Progress Print:

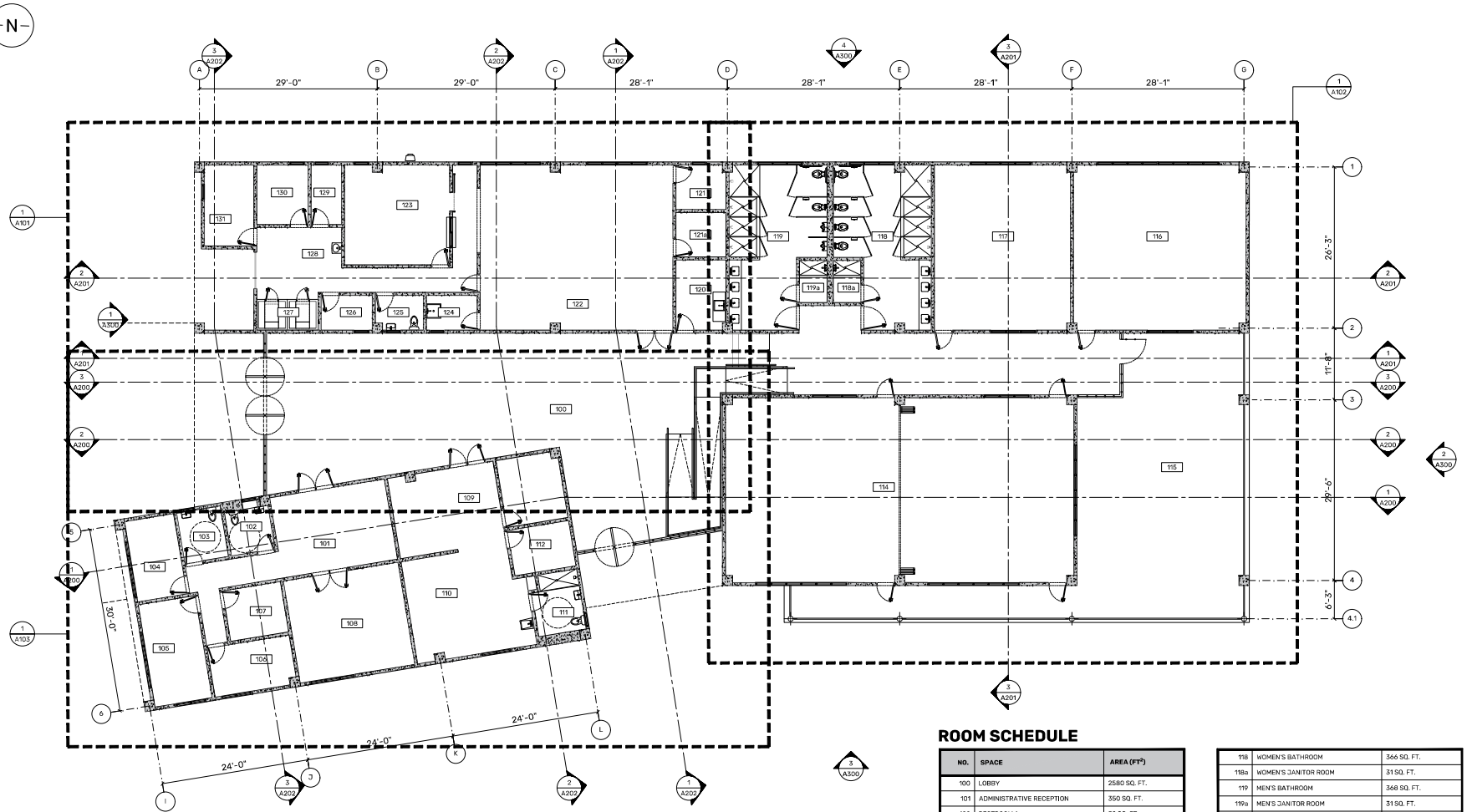
TITLE

PROPOSED GROUND SITE PLAN

DRAWING No.

A002

PROPOSED GROUND FLOOR PLAN



1 PROPOSED ARCHITECTURAL FLOOR PLAN

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

NOTES

- FURNITURE AND REMOVABLE EQUIPMENT ILLUSTRATED AND MARKED N.I.C. (NOT IN CONTRACT), WILL NOT BE INCLUDED IN THE BASE BID FOR THE CONSTRUCTION CONTRACT. IT IS PROVIDED AS A DESIGN REFERENCE FOR ELECTRICAL AND MECHANICAL EQUIPMENT COORDINATION ONLY.

ROOM SCHEDULE

NO.	SPACE	AREA (FT²)
100	LOBBY	2580 SQ. FT.
101	ADMINISTRATIVE RECEPTION	350 SQ. FT.
102	RESTROOM 1	52 SQ. FT.
103	RESTROOM 2	60 SQ. FT.
104	OFFICE_1	108 SQ. FT.
105	OFFICE_2	159 SQ. FT.
106	OFFICE_3	108 SQ. FT.
107	OFFICE_4	80 SQ. FT.
108	CONFERENCE ROOM	320 SQ. FT.
109	NURSING RECEPTION	234 SQ. FT.
110	NURSING AREA	322 SQ. FT.
111	NURSING BATHROOM	74 SQ. FT.
112	NURSING STORAGE	76 SQ. FT.
113	NURSING OFFICE	110 SQ. FT.
114	ACTIVITY AREA	1705 SQ. FT.
115	TERRACE	1612 SQ. FT.
116	TV ROOM AREA	755 SQ. FT.
117	ACTIVITIES WORKSHOP	596 SQ. FT.
118	WOMEN'S BATHROOM	366 SQ. FT.
118a	WOMEN'S JANITOR ROOM	31 SQ. FT.
119	MEN'S BATHROOM	368 SQ. FT.
119a	MEN'S JANITOR ROOM	31 SQ. FT.
120	LAUNDRY	93 SQ. FT.
121	STORAGE	58 SQ. FT.
121a	ELECTRIC ROOM	59 SQ. FT.
122	LUNCH AREA	881 SQ. FT.
123	KITCHEN	325 SQ. FT.
124	UTILITY ROOM	39 SQ. FT.
125	KITCHEN BATHROOM	43 SQ. FT.
126	DISPOSABLE STORAGE	47 SQ. FT.
127	WALK IN FREEZER	50 SQ. FT.
128	LAVATORY	239 SQ. FT.
129	CHEMICAL STORAGE	48 SQ. FT.
130	DRY STORAGE	81 SQ. FT.
131	KITCHEN OFFICE	106 SQ. FT.
TOTAL		12,167 SQ. FT.

PROJECT ADDRESS

PR-CRP-0092 ELDERLY SERVICE CENTER. CALLE FERROCARRIL #11 BO. PUEBLO, LAJAS, P.R. 00667.

GPS LATITUDE/LONGITUDE: 18.04941608, -67.05761236

OWNER

LAJAS MUNICIPALITY

REGISTER No.

358-032-072-01

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
--	--	--	--	--

IMPORTANT NOTES TO THE CONTRACTOR:

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CERTIFICATION

I, WILLIAM MELENDEZ RIVAS, LIC. 16383, CERTIFY THAT I AM THE PROFESSIONAL WHO IMADE, DESIGNED OR PREPARED THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 114-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY AND WITH THE LEAW NO. 399 OF MAY 15, 1938, AS AMENDED; ACT NO. 96 OF JULY 6, 1978, AS AMENDED, AS APPLICABLE. I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY ENGINANCE OF NEGLIGENCE EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE DOPE.

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www.ii-info@ingenium.group

SIGNATURE

William Meléndez Rivas, Licensed Engineer, Lic. 16383 PE, Puerto Rico

FILE

Dwg Name: INGENIUM GROUP

Drawn by: INGENIUM GROUP

Revised by: ING. WILLIAM MELENDEZ

Plot Scale: AS SHOWN

Progress Print:

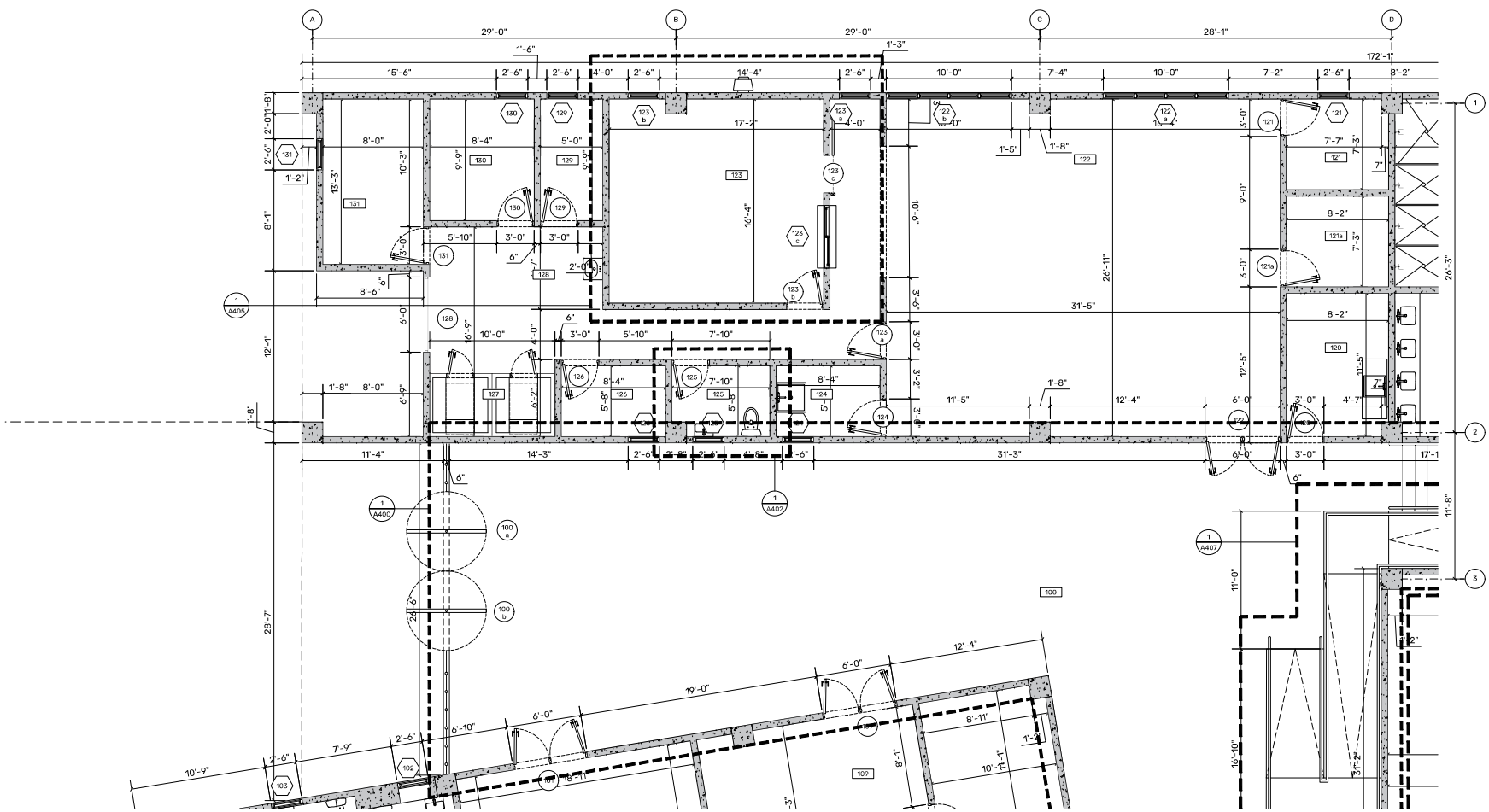
TITLE

PROPOSED GROUND FLOOR PLAN

DRAWING No.

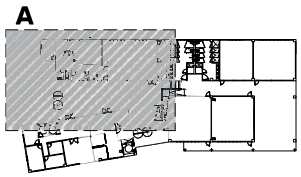
A100

PROPOSED GROUND FLOOR PLAN - AREA 'A'



1 PROPOSED ARCHITECTURAL FLOOR PLAN - AREA 'A'

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



2 KEYMAP

SCALE: N.T.S.

ROOM SCHEDULE

NO.	SPACE	AREA (FT²)
100	LOBBY	2580 SQ. FT.
101	ADMINISTRATIVE RECEPTION	350 SQ. FT.
102	RESTROOM 1	52 SQ. FT.
103	RESTROOM 2	60 SQ. FT.
104	OFFICE_1	108 SQ. FT.
105	OFFICE_2	159 SQ. FT.
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127	WALK IN FREEZER	50 SQ. FT.
128	LAVATORY	239 SQ. FT.
129	CHEMICAL STORAGE	48 SQ. FT.
130	DRY STORAGE	81 SQ. FT.
131	KITCHEN OFFICE	106 SQ. FT.
TOTAL		12,167 SQ. FT.

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PROJECT ADDRESS

PR-CRP-0092 ELDERLY SERVICE CENTER, CALLE FERROCARRIL #11 BO. PUEBLO, LAJAS, P.R. 00667.

GPS LATITUDE/LONGITUDE: 18.04941608, -67.05761236

OWNER

LAJAS MUNICIPALITY

REGISTER No.

358-032-072-01

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
--	--	--	--	--

IMPORTANT NOTES TO THE CONTRACTOR:

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www.ingenium.group

SIGNATURE

William Meléndez Rivas, Licensed, Lic. 16383, Puerto Rico

FILE

Dwg Name: INGENIUM GROUP

Drawn by: INGENIUM GROUP

Revised by: ING. WILLIAM MELENDEZ

Plot Scale: AS SHOWN

Progress Print:

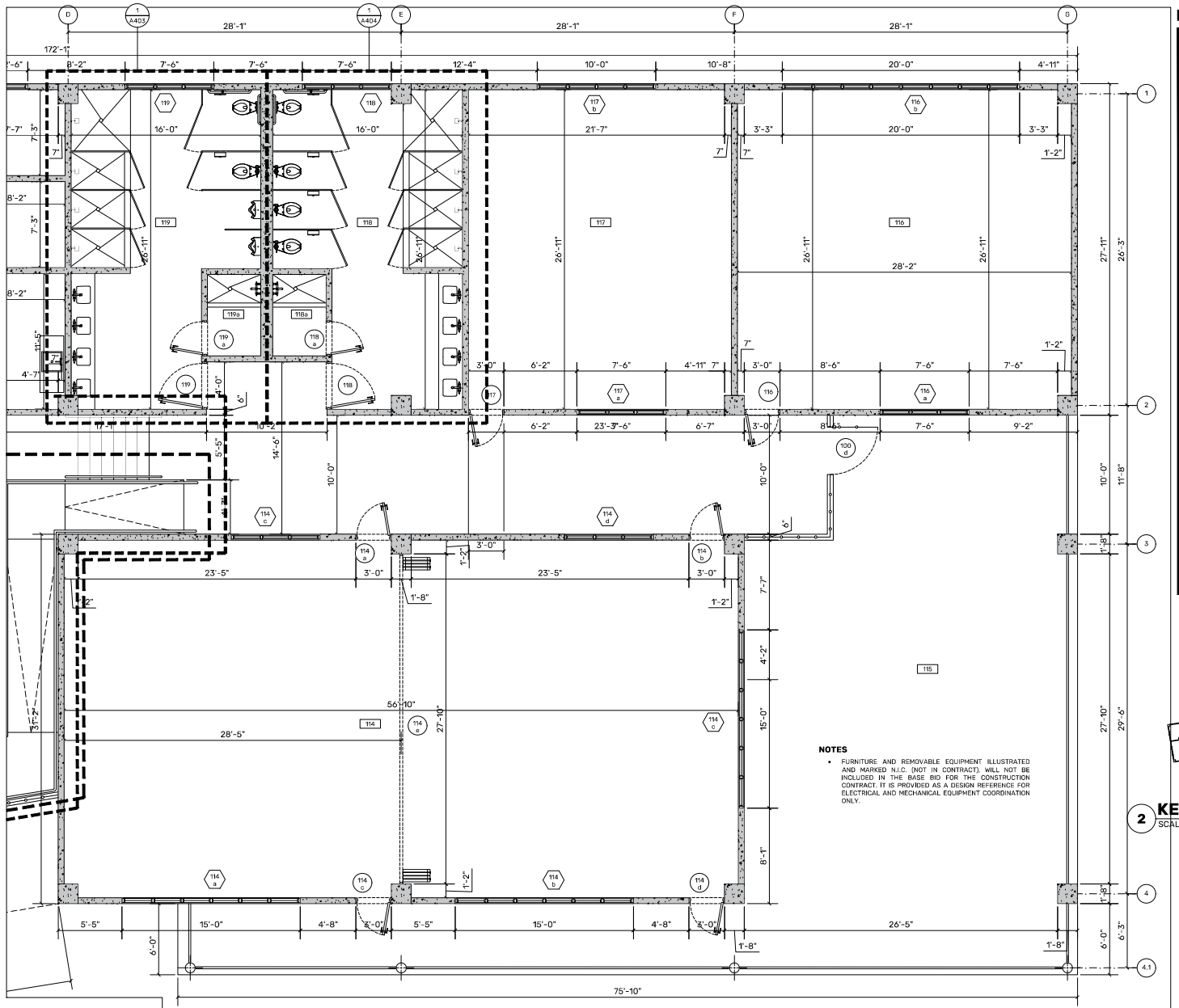
TITLE

PROPOSED GROUND FLOOR PLAN - AREA 'A'

DRAWING No.

A101

PROPOSED GROUND FLOOR PLAN - AREA 'B'



1 PROPOSED ARCHITECTURAL FLOOR PLAN - AREA 'B'
SCALE: 1/4"= 1'-0"

ROOM SCHEDULE

NO.	SPACE	AREA (FT²)
100	LOBBY	2580 SQ. FT.
101	ADMINISTRATIVE RECEPTION	350 SQ. FT.
102	RESTROOM 1	52 SQ. FT.
103	RESTROOM 2	60 SQ. FT.
104	OFFICE_1	108 SQ. FT.
105	OFFICE_2	159 SQ. FT.
106	OFFICE_3	108 SQ. FT.
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113	NURSING OFFICE	110 SQ. FT.
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115	TERRACE	1612 SQ. FT.
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130	DRY STORAGE	81 SQ. FT.
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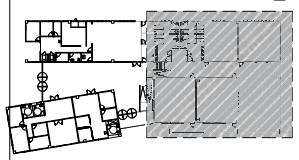
TOTAL		12,167 SQ. FT.



2 KEYMAP
SCALE: N.T.S.

PROJECT ADDRESS
PR-CRP-0092 ELDERLY SERVICE CENTER. CALLE FERROCARRIL #11 BO. PUEBLO, LAJAS, P.R. 00667.

GPS LATITUDE/LONGITUDE: 18.04941608, -67.05761236

OWNER
LAJAS MUNICIPALITY

REGISTER No.
358-032-072-01

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
--	--	--	--	--

IMPORTANT NOTES TO THE CONTRACTOR:
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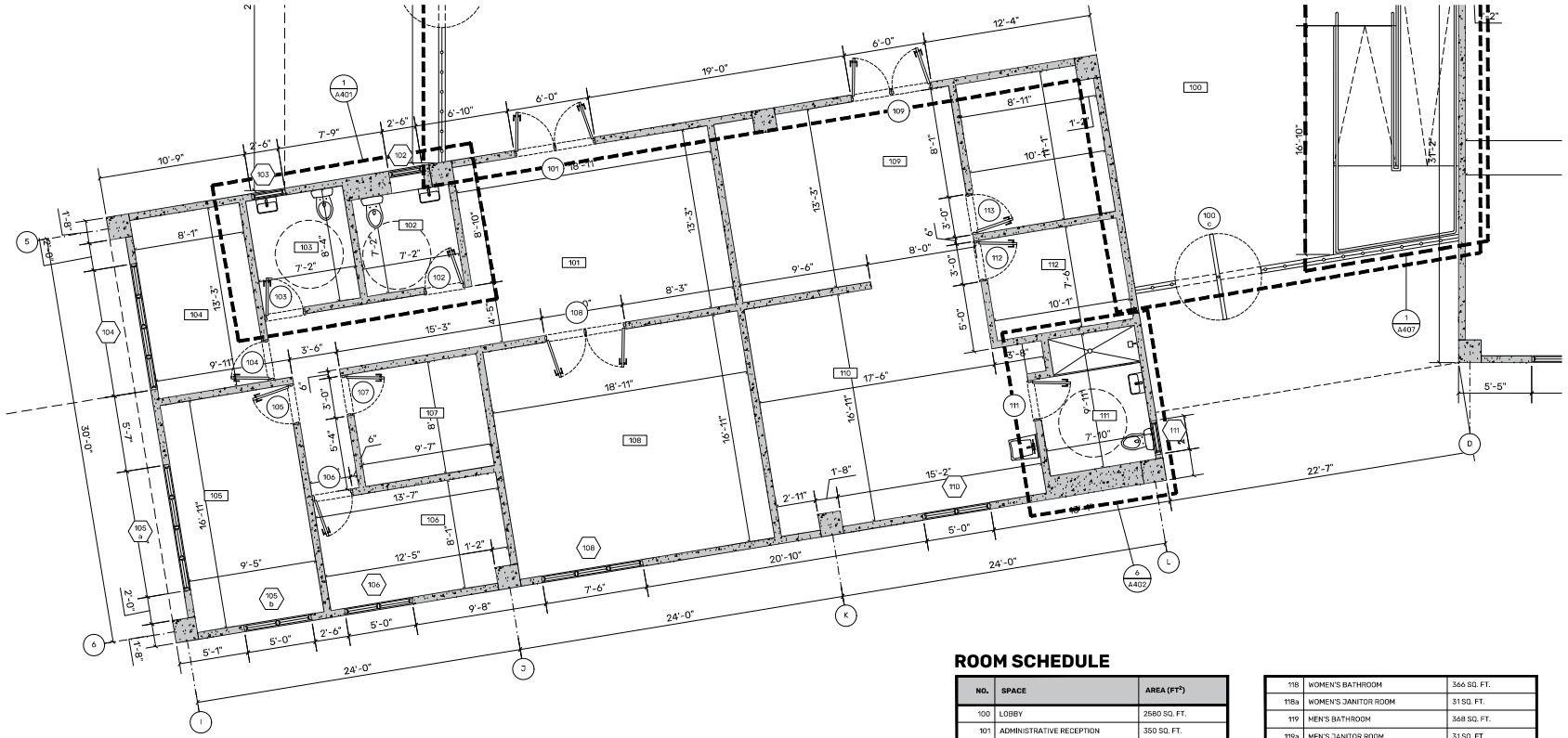
SIGNATURE
William Meléndez Rivas, Licensed, Lic. 16383, Puerto Rico

FILE
Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
PROPOSED GROUND FLOOR PLAN - AREA 'B'

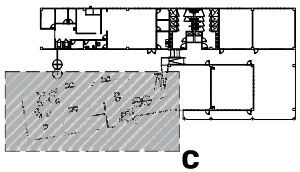
DRAWING No.
A102

PROPOSED GROUND FLOOR PLAN - AREA 'C'



1 PROPOSED ARCHITECTURAL FLOOR PLAN - AREA 'C'

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



C

2 KEYMAP

SCALE: N.T.S.

ROOM SCHEDULE

NO.	SPACE	AREA (FT²)
100	LOBBY	2580 SQ. FT.
101	ADMINISTRATIVE RECEPTION	350 SQ. FT.
102	RESTROOM 1	52 SQ. FT.
103	RESTROOM 2	60 SQ. FT.
104	OFFICE_1	108 SQ. FT.
105	OFFICE_2	159 SQ. FT.
106	OFFICE_3	108 SQ. FT.
107	OFFICE_4	80 SQ. FT.
108	CONFERENCE ROOM	320 SQ. FT.
109	NURSING RECEPTION	234 SQ. FT.
110	NURSING AREA	322 SQ. FT.
111	NURSING BATHROOM	74 SQ. FT.
112	NURSING STORAGE	76 SQ. FT.
113	NURSING OFFICE	110 SQ. FT.
114	ACTIVITY AREA	1705 SQ. FT.
115	TERRACE	1612 SQ. FT.
116	TV ROOM AREA	755 SQ. FT.
117	ACTIVITIES WORKSHOP	596 SQ. FT.
118	WOMEN'S BATHROOM	366 SQ. FT.
118a	WOMEN'S JANITOR ROOM	31 SQ. FT.
119	MEN'S BATHROOM	368 SQ. FT.
119a	MEN'S JANITOR ROOM	31 SQ. FT.
120	LAUNDRY	93 SQ. FT.
121	STORAGE	58 SQ. FT.
121a	ELECTRIC ROOM	59 SQ. FT.
122	LUNCH AREA	881 SQ. FT.
123	KITCHEN	325 SQ. FT.
124	UTILITY ROOM	39 SQ. FT.
125	KITCHEN BATHROOM	43 SQ. FT.
126	DISPOSABLE STORAGE	47 SQ. FT.
127	WALK IN FREEZER	50 SQ. FT.
128	LAVATORY	239 SQ. FT.
129	CHEMICAL STORAGE	48 SQ. FT.
130	DRY STORAGE	81 SQ. FT.
131	KITCHEN OFFICE	106 SQ. FT.
TOTAL		12,167 SQ. FT.

NOTES

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PROJECT ADDRESS

PR-CRP-0092 ELDERLY SERVICE CENTER, CALLE FERROCARRIL #11 BO. PUEBLO, LAJAS, P.R. 00667.

GPS LATITUDE/LONGITUDE: 18.0494168, -67.05761236

OWNER

LAJAS MUNICIPALITY

REGISTER No.

358-032-072-01

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
--	--	--	--	--

IMPORTANT NOTES TO THE CONTRACTOR:

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE PROCEEDING WITH WORK. IF ANY DISCREPANCIES, ERRORS OR OMISSIONS SHOULD BE ENCOUNTERED ON PLANS, CONTRACTOR SHALL NOTIFY THE ENGINEER BEFORE ANY PART OF THE WORK IS STARTED SO THAT PROPER CORRECTIONS ARE MADE. IF ENGINEER IS NOT NOTIFIED PRIOR TO COMMENCING OF THE WORK, ALL DESIGNS AND DRAWINGS HEREIN AND PRINTS ISSUED BY THE ENGINEER ARE THE PROPERTY OF THE ENGINEER AND SHALL NOT BE REUSED ON ANY OTHER LOCATION EXCEPT THE ONE FOR WHICH THEY EXPRESSLY DESIGNED. IF THESE DRAWINGS OR ANY PART THEREOF IS REPRODUCED WITHOUT THE CONSENT OF THE ENGINEER, THE PERSON WHO IS DOING WILL BE INDEBTED TO THE ENGINEER FOR HIS FULL COMMISSION. CONTRACTOR SHALL NOT USE FOR CONSTRUCTION PURPOSES ANY DRAWINGS THAT WERE ADVANCE TO HIM PRIOR TO THE BEGINNING OF CONSTRUCTION. ALL PLANS BEING USED BY CONTRACTOR SHOULD HAVE A LABEL SAYING "FOR CONSTRUCTION ONLY" SIGNED AND SEALED BY THE ENGINEER.

CERTIFICATION

I, WILLIAM MELENDEZ RIVAS, LIC. 16383, CERTIFY THAT I AM THE PROFESSIONAL WHO IMADE, DESIGNED OR PREPARED THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE BY THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 14-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY AND WITH THE LAW NO. 319 OF MAY 15, 1938, AS AMENDED; ACT NO. 96 OF JULY 6, 1978, AS AMENDED; AS APPLICABLE. I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY ENDRANCE OF NEGLIGENCE EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE DOPE.

INGENIUM PROFESSIONAL GROUP

454 Ave. Muñoz Rivera - Suite 1030
604 Plaza, San Juan, PR 00918
Tel. (787) 765-GRUV / 0891
ilme@ingenium.group

SIGNATURE

William Meléndez Rivas, Ingeniero Licenciado, Lic. 16383 PE, Puerto Rico

FILE

Dwg Name: INGENIUM GROUP

Drawn by: INGENIUM GROUP

Revised by: ING. WILLIAM MELENDEZ

Plot Scale: AS SHOWN

Progress Print:

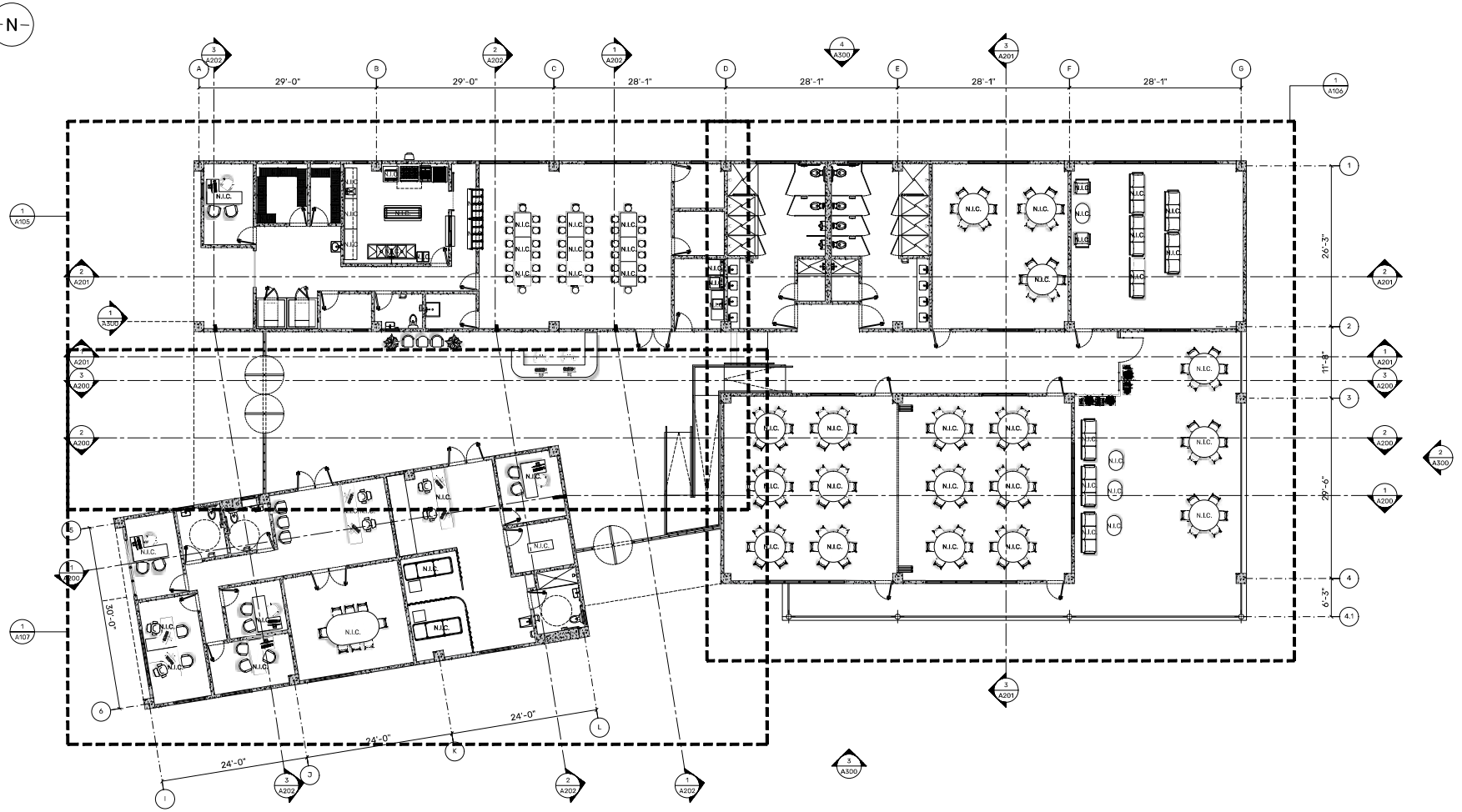
TITLE

PROPOSED GROUND FLOOR PLAN - AREA 'C'

DRAWING No.

A103

P R O P O S E D F U R N I T U R E P L A N



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1 PROPOSED FURNITURE FLOOR PLAN

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

PROJECT ADDRESS

PR-CRP-0092 ELDERLY SERVICE CENTER, CALLE FERROCARRIL #11 BO. PUEBLO, LAJAS, P.R. 00667.

GPS LATITUDE/LONGITUDE: 18.04941608, -67.05761236

OWNER

LAJAS MUNICIPALITY

REGISTER No.

3 5 8 - 0 3 2 - 0 7 2 - 0 1

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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INGENIUM PROFESSIONAL GROUP

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654 Plaza, San Juan, PR 00138
Tel: (787) 918-6800 / 6801
Email: info@ingenium.group

SIGNATURE

William Meléndez Rivas
Ingeniero Licenciado
Lic. 16383
Puerto Rico

FILE

Dwg Name: INGENIUM GROUP

Drawn by: INGENIUM GROUP

Revised by: ING. WILLIAM MELENDEZ

Plot Scale: AS SHOWN

Progress Print:

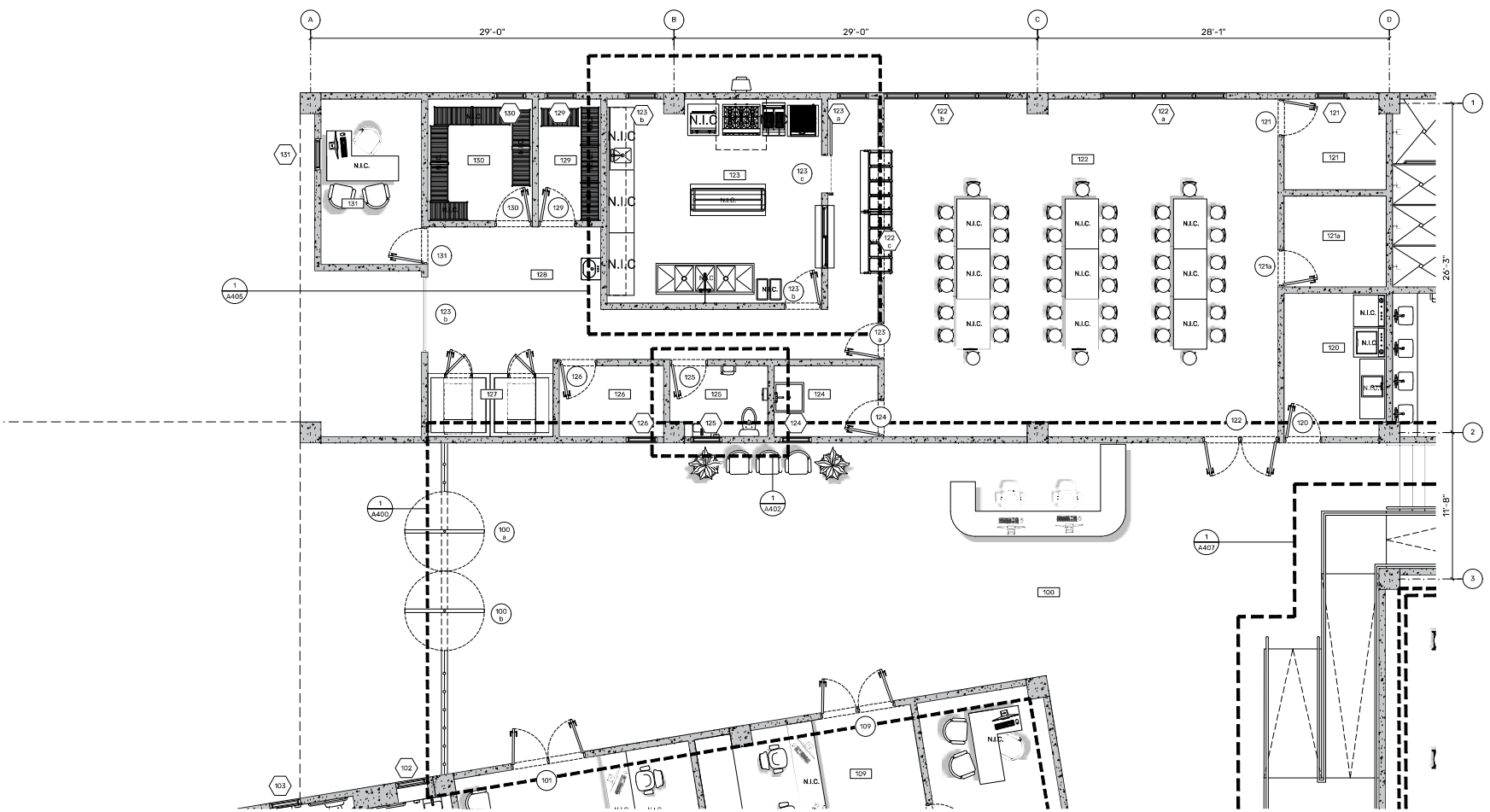
TITLE

PROPOSED FURNITURE PLAN

DRAWING No.

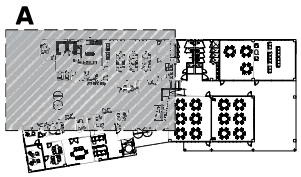
A104

PROPOSED FURNITURE PLAN - AREA 'A'



1 PROPOSED FURNITURE FLOOR PLAN - AREA 'A'

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



2 KEYMAP

SCALE: N.T.S.

ROOM SCHEDULE

NO.	SPACE
100	LOBBY
101	ADMINISTRATIVE RECEPTION
102	RESTROOM 1
103	RESTROOM 2
104	OFFICE_1
105	OFFICE_2
106	OFFICE_3
107	OFFICE_4
108	CONFERENCE ROOM
109	NURSING RECEPTION
110	NURSING AREA
111	NURSING BATHROOM
112	NURSING STORAGE
113	NURSING OFFICE
114	ACTIVITY AREA
115	TERRACE
116	TV ROOM AREA
117	ACTIVITIES WORKSHOP
118	WOMEN'S BATHROOM
118a	WOMEN'S PRIVATE BATHROOM
119	MEN'S BATHROOM
119a	MEN'S PRIVATE BATHROOM
120	LAUNDRY
121	STORAGE
121a	ELECTRIC ROOM
122	LUNCH AREA
123	KITCHEN
124	UTILITY ROOM
125	KITCHEN BATHROOM
126	DISPOSABLE STORAGE
127	WALK IN FREEZER
128	LAVATORY
129	CHEMICAL STORAGE
130	DRY STORAGE
131	KITCHEN OFFICE

NOTES

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PROJECT ADDRESS
PR-CRP-0092 ELDERLY SERVICE CENTER, CALLE FERROCARRIL #11 BO. PUEBLO, LAJAS, P.R. 00667.

GPS LATITUDE/LONGITUDE:
18.0494160, -67.05761236

OWNER
LAJAS MUNICIPALITY

REGISTER No.
358-032-072-01

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
--	--	--	--	--

IMPORTANT NOTES TO THE CONTRACTOR:
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www.ingenium.group

SIGNATURE

William Meléndez Rivas, Lic. 16383, Puerto Rico

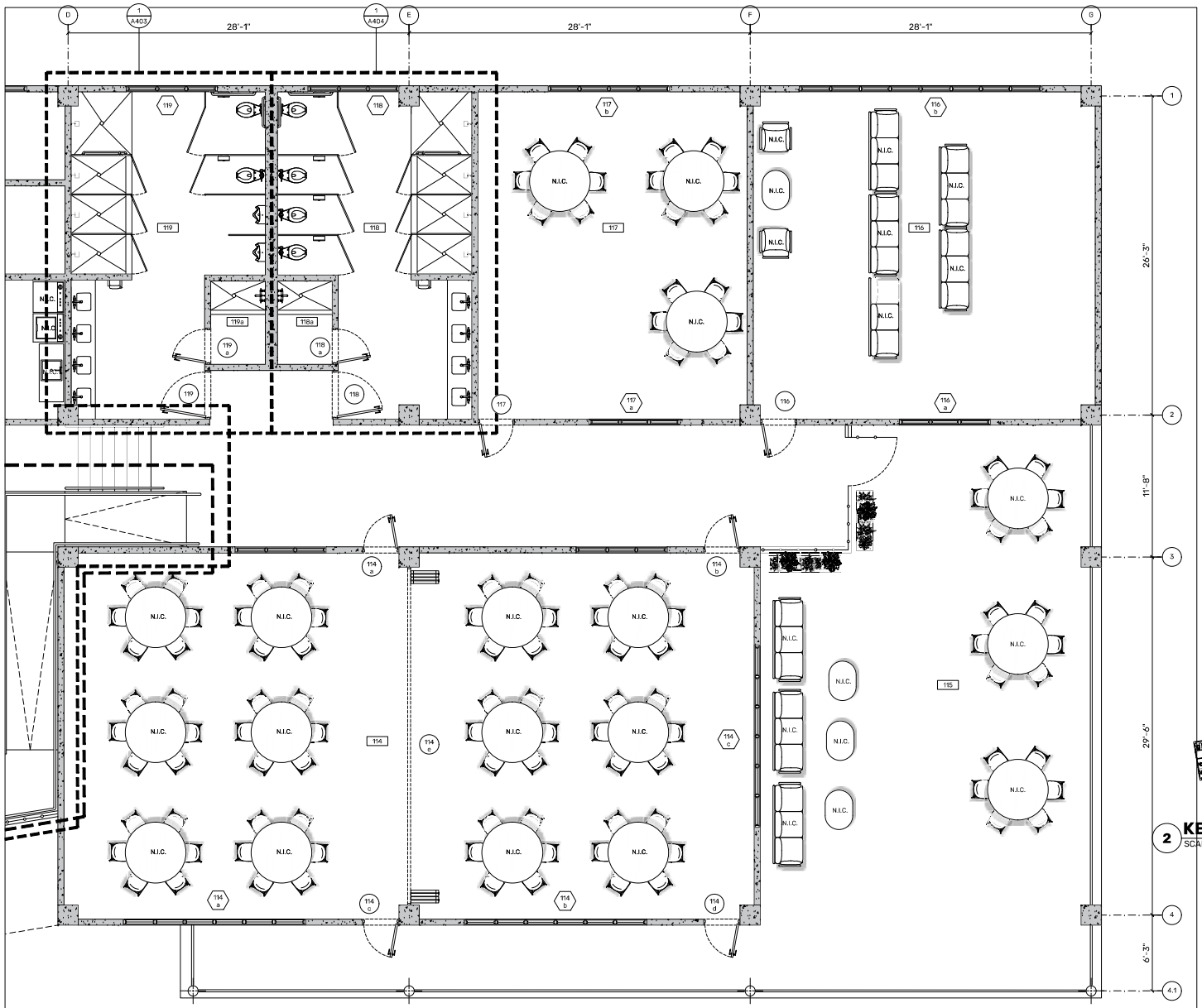
FILE

Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
PROPOSED FURNITURE PLAN - AREA 'A'

DRAWING No.
A105

PROPOSED FURNITURE PLAN - AREA 'B'



1 PROPOSED FURNITURE FLOOR PLAN - AREA 'B'

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

ROOM SCHEDULE

NO.	SPACE
100	LOBBY
101	ADMINISTRATIVE RECEPTION
102	RESTROOM 1
103	RESTROOM 2
104	OFFICE_1
105	OFFICE_2
106	OFFICE_3
107	OFFICE_4
108	CONFERENCE ROOM
109	NURSING RECEPTION
110	NURSING AREA
111	NURSING BATHROOM
112	NURSING STORAGE
113	NURSING OFFICE
114	ACTIVITY AREA
115	TERRACE
116	TV ROOM AREA
117	ACTIVITIES WORKSHOP
118	WOMEN'S BATHROOM
118a	WOMEN'S PRIVATE BATHROOM
119	MEN'S BATHROOM
119a	MEN'S PRIVATE BATHROOM
120	LAUNDRY
121	STORAGE
121a	ELECTRIC ROOM
122	LUNCH AREA
123	KITCHEN
124	UTILITY ROOM
125	KITCHEN BATHROOM
126	DISPOSABLE STORAGE
127	WALK IN FREEZER
128	LAVATORY
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130	DRY STORAGE
131	KITCHEN OFFICE

NOTES

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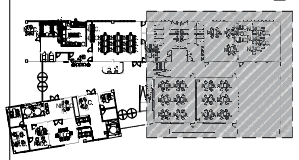

2 KEYMAP

SCALE: N.T.S.

PROJECT ADDRESS

PR-CRP-0092 ELDERLY SERVICE CENTER. CALLE FERROCARRIL #11 BO. PUEBLO, LAJAS, P.R. 00667.

GPS LATITUDE/LONGITUDE: 18.0494168, -67.05761236

OWNER

LAJAS MUNICIPALITY

REGISTER No.

358-032-072-01

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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www.ingenium.group

SIGNATURE

William Meléndez Rivas, Licensed Professional Engineer, Lic. No. 16383, Puerto Rico

FILE

Dwg Name: INGENIUM GROUP

Drawn by: INGENIUM GROUP

Revised by: ING. WILLIAM MELENDEZ

Plot Scale: AS SHOWN

Progress Print:

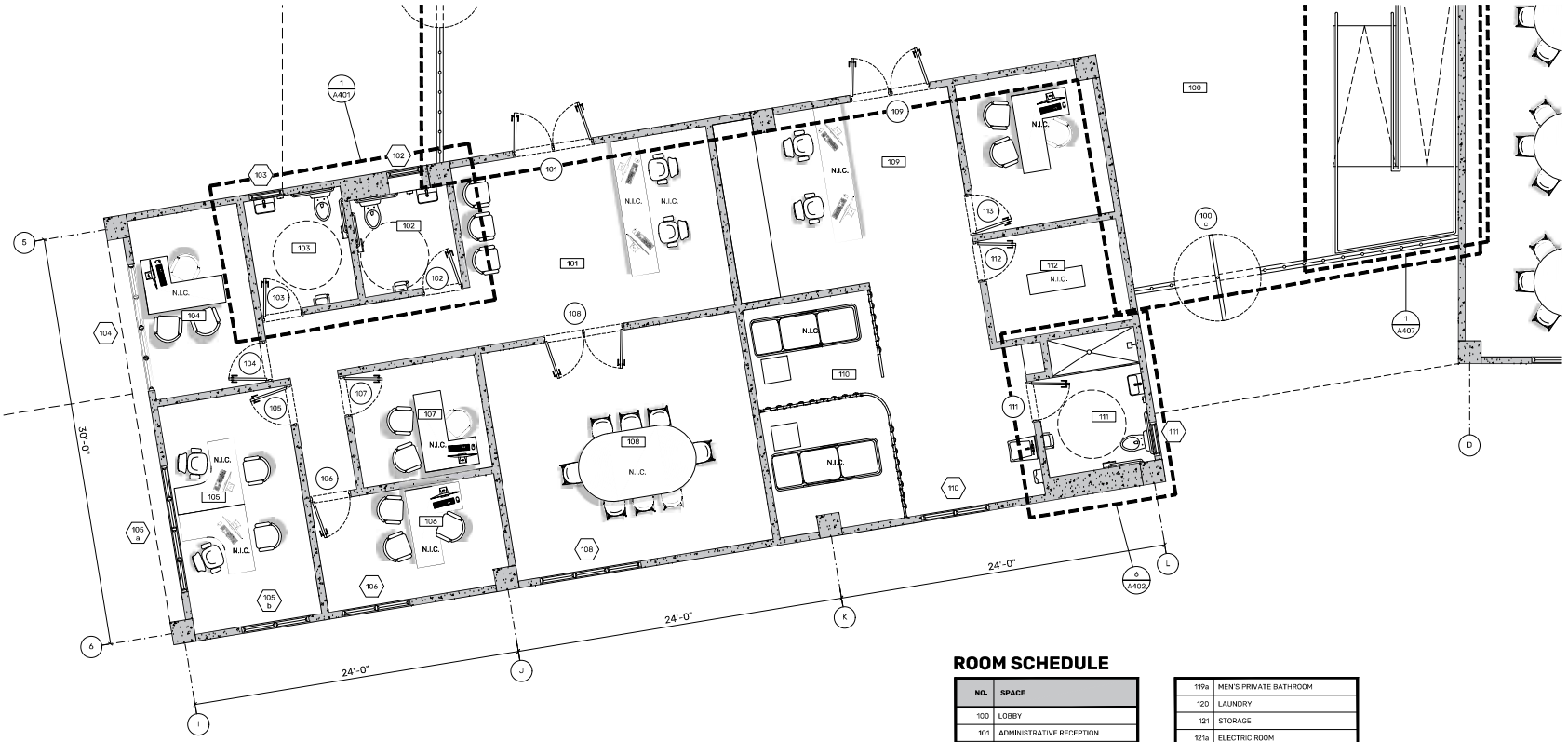
TITLE

PROPOSED FURNITURE PLAN - AREA 'B'

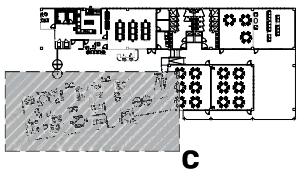
DRAWING No.

A106

PROPOSED FURNITURE PLAN - AREA 'C'



1 PROPOSED FURNITURE FLOOR PLAN - AREA 'C'
SCALE: 1/4"= 1'-0"



C

2 KEYMAP
SCALE: N.T.S.

ROOM SCHEDULE

NO.	SPACE
100	LOBBY
101	ADMINISTRATIVE RECEPTION
102	RESTROOM 1
103	RESTROOM 2
104	OFFICE_1
105	OFFICE_2
106	OFFICE_3
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PROJECT ADDRESS
PR-CRP-0092 ELDERLY SERVICE CENTER, CALLE FERROCARRIL #11 BO. PUEBLO, LAJAS, P.R. 00667.

GPS LATITUDE/LONGITUDE:
18.0494160B, -67.05761236

OWNER
LAJAS MUNICIPALITY

REGISTER No.
358-032-072-01

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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Tel. (787) 758-GROU / 0891
www.ii-ingenium.group

SIGNATURE

William Meléndez Rivas, Licensed, Lic. 16383 PE, Puerto Rico

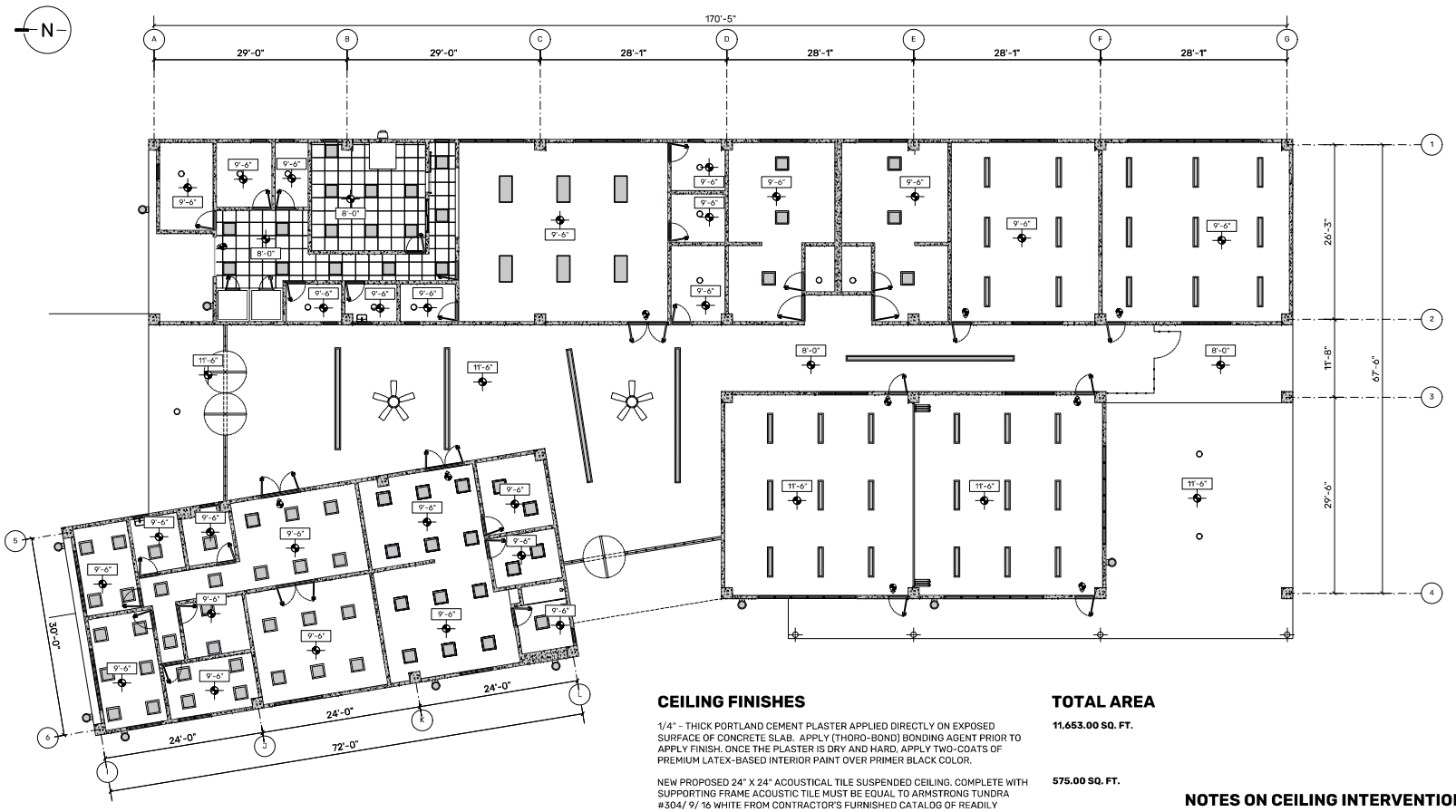
FILE

Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
PROPOSED FURNITURE PLAN - AREA 'C'

DRAWING No.
A107

P R O P O S E D R E F L E C T E D C E I L I N G



1 PROPOSED REFLECTED CEILING
SCALE: 1/8"= 1'-0"

CEILING FINISHES

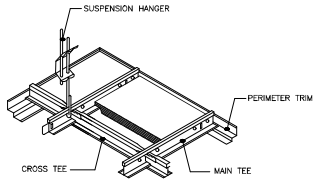
1/4" - THICK PORTLAND CEMENT PLASTER APPLIED DIRECTLY ON EXPOSED SURFACE OF CONCRETE SLAB. APPLY (THORO-BOND) BONDING AGENT PRIOR TO APPLY FINISH. ONCE THE PLASTER IS DRY AND HARD, APPLY TWO-COATS OF PREMIUM LATEX-BASED INTERIOR PAINT OVER PRIMER BLACK COLOR.

NEW PROPOSED 24" X 24" ACOUSTICAL TILE SUSPENDED CEILING. COMPLETE WITH SUPPORTING FRAME ACOUSTIC TILE MUST BE EQUAL TO ARMSTRONG TUNDRA #304/ 9/ 16 WHITE FROM CONTRACTOR'S FURNISHED CATALOG OF READILY AVAILABLE MODELS. ALL TILES SHALL BE. SAG-RESISTANT AND FIRE-RATED.

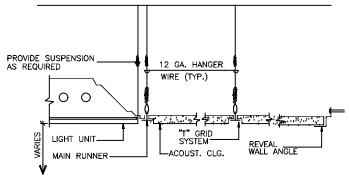
TOTAL AREA

11,653.00 SQ. FT.

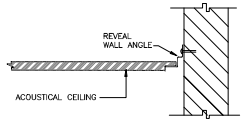
575.00 SQ. FT.



2 TYPICAL SUSPENDED CEILING INSTALLATION
SCALE: NOT TO SCALE



3 TYPICAL SUSPENDED CEILING INSTALLATION
SCALE: NOT TO SCALE



4 SUSPENDED CEILING MEETING WALL
SCALE: NOT TO SCALE

NOTES ON CEILING INTERVENTION:

1. CEILING SYSTEM MUST BE INSTALLED ACCORDING TO NFPA STANDARDS. CONTRACTOR MUST SUBMIT FINAL LAYOUT FROM THE EQUIPMENT OF THE NEW SYSTEM. THE INTERIOR CONTRACTOR MUST ENSURE THAT ALL THE PERIMETER (DEMISING) WALLS OF THE LOCAL, REMAINS IN GOOD CONDITIONS TO RECEIVE THE NEW CEILING SYSTEM.
2. QUANTITY AND LOCATION OF SMOKE DETECTION DEVICES SHOWN IN THIS PLAN IS SUGGESTED FURNISHER, COMPLETE WITH THE CORRESPONDENT CODE COMPLIANCE CERTIFICATION. CHANGES TO SUGGESTED LAYOUT ARE ACCEPTABLE IN AS MUCH AS THEY LIE WITHIN FURNISHER'S CERTIFICATION.
3. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THE ARCHITECT AWARE OF ANY QUESTIONS OR DISCREPANCIES REGARDING THE SCOPE OF WORK, EXISTING CONDITIONS, AND/OR INTENT. A WRITTEN CLARIFICATION FROM THE ARCHITECT IS REQUIRED PRIOR TO PROCEEDING WITH THE WORK IN QUESTION.
4. IBC CATEGORY D: INSTALLATION REQUIREMENTS FOR CLASS D-TO ASTM C636 AND ASTM E580
   - 4.1. MINIMUM 2" WALL MOLDING
   - 4.2. SUSPENSION SYSTEM MUST BE ATTACHED TO TWO ADJACENT WALLS-OPPOSITEWALLS MUST HAVE A 3/4" CLEARANCE
   - 4.3. ENDS OF MAIN BEAMS AND CROSS TEES MUST BE TIED TOGETHER TO PREVENT THEIR SPREADING
   - 4.4. HEAVY-DUTY SUSPENSION SYSTEM
   - 4.5. CEILING AREAS OVER 1,000 SF MUST HAVE HORIZONTAL RESTRAINT WIRE OR RIGID BRACING
   - 4.6. CEILING AREAS OVER 2,500 SF MUST HAVE SEISMIC SEPARATION JOINTS OR FULL HEIGHT PARTITIONS
   - 4.7. CEILINGS WITHOUT RIGID BRACING MUST HAVE 2" OVERSIZED TRIM RINGS FOR PENETRATIONS
   - 4.8. CHANGES IN CEILING PLANE MUST HAVE POSITIVE BRACING
   - 4.9. CABLE TRAYS AND ELECTRICAL CONDUITS MUST BE INDEPENDENTLY SUPPORTED AND BRACED
   - 4.10. PERIMETER SUPPORT WIRES WITHIN 8"
5. FOR ELECTRICAL AND MECHANICAL SPECIFICATIONS REFER TO ELECTRICAL AND MECHANICAL PLANS.
6. ALL MEASUREMENTS ARE MINIMUM TO COMPLY WITH CODE. DO NOT SCALE DRAWINGS. CONTRACTOR MUST SUBMIT AN RFI TO THE ARCHITECT OF RECORD FOR CLARIFICATION.

PROJECT ADDRESS
PR-CRP-0092 ELDERLY SERVICE CENTER. CALLE FERROCARRIL #11 BO. PUEBLO, LAJAS, P.R. 00667.

GPS LATITUDE/LONGITUDE: 18.0494168, -67.05761236

OWNER
LAJAS MUNICIPALITY

REGISTER No.
3 5 8 - 0 3 2 - 0 7 2 - 0 1

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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IMPORTANT NOTES TO THE CONTRACTOR:
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CERTIFICATION
I, WILLIAM MELENDEZ RIVAS, LIC. 16383, CERTIFY THAT I AM THE PROFESSIONAL WHO MADE, DESIGNED OR PREPARED THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 14-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY AND WITH THE LAW NO. 319 OF MAY 15, 1938, AS AMENDED; ACT NO. 96 OF JULY 6, 1978, AS AMENDED; AS APPLICABLE. I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY ENDEAVOR OF NEGLIGENCE EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THIS DEPE.

INGENIUM PROFESSIONAL GROUP
454 Ave. Muñoz Rivera - Suite 1030
604 Plaza, San Juan, PR 00918
Tel. (787) 918-GRUV / 0891
www.ii.info@ingenium.group

SIGNATURE

William Meléndez Rivas — Puerto Rico

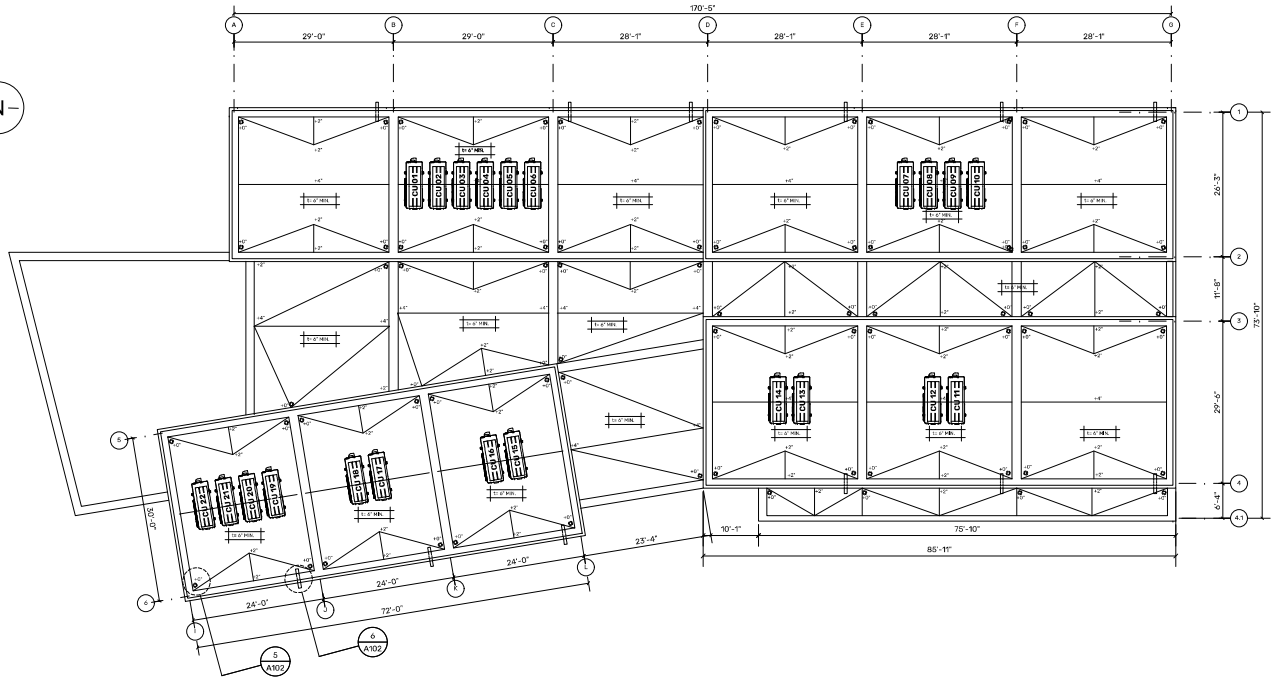
FILE

Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
PROPOSED REFLECTED CEILING

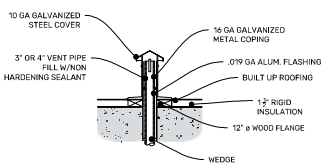
DRAWING No.
A108

P R O P O S E D R O O F P L A N



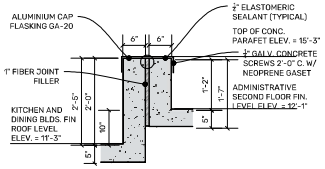
PROPOSED ROOF PLAN

SCALE: 3/32"=1'-0"



1 TYP. VENT PIPE DET.

SCALE: N.T.S.



2 TYP. CAP FLASH DET.

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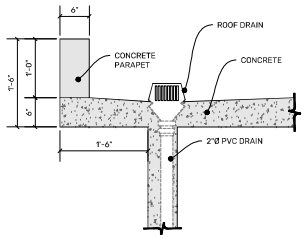

5 TYP. ROOF DRAIN DET.

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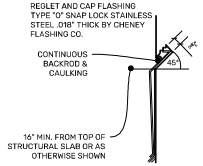

3 TYP. REGLET DET.

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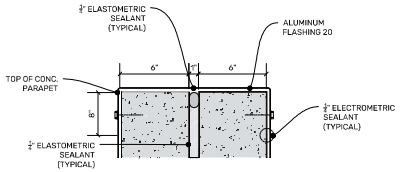

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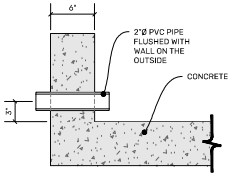
SCALE: N.T.S.



6 TYP. OVERFLOW DET.

SCALE: N.T.S.

GENERAL NOTES

1. WARRANTY FOR THE WATERPROOFING TREATMENT SHALL BE A 10 YEARS BONDED WARRANTY IN ADDITION TO REGULAR MANUFACTURER AND INSTALLER WARRANTIES.

   -THE TEN (10) YEARS BONDED WARRANTY ON MATERIALS AND LABOR DEFECTS REQUESTED THE PROJECT SHALL BE: 50% OF THE TOTAL COST FOR THE FIRST FOUR (4) YEAR, 35% FOR THE NEXT FOUR (4) YEARS AND 15% FOR THE LAST TWO (2) YEARS.

2. ALL DEMOLITION AND CONSTRUCTION WORK SHALL BE COORDINATED WITH THE OWNER TO PREVENT POSSIBLE CONFLICTS WITH THE OWNER'S NORMAL WORKING CONDITIONS.

3. THE CONTRACTOR SHALL APPLY A SYSTEM EQUAL OR SUPERIOR TO THE ONE SPECIFIED. PROPOSED PRODUCTS SHALL HAVE EQUAL OR BETTER CHARACTERISTICS THAN THE ONE SPECIFIED. PRODUCTS WITH CHARACTERISTICS LESS THAN THE ONE SPECIFIED WILL NOT BE ACCEPTED FOR THIS PROJECT.

4. CONTRACTOR SHALL PROVIDE, USE, AND/OR INSTALL ANY COMPONENT OR PRODUCT FOR THE REQUIRED SYSTEM, NOT SPECIFIED BUT NECESSARY FOR THE PROPER INSTALLATION OF THE WATERPROOFING SYSTEM.

5. WORK SHALL BE VERIFY AND CERTIFIED BY A QUALIFIED REPRESENTATIVE FROM THE MANUFACTURER OF THE WATERPROOFING SYSTEM.

6. CONTRACTOR SHALL VISIT THE PROJECT SITE TO BECOME FAMILIAR WITH THE REQUIRED WORK AND SHALL VERIFY ACTUAL DIMENSIONS AND CONDITIONS TO CONSIDER ANY DIFFICULTIES AND COST IN BASE BID.

7. WORK SHALL BE PERFORMED BY PERSONNEL SKILLED IN THIS TRADE AND WITH THE BEST PRACTICE OF THE TRADE.

ROOF SCOPE OF WORK:

1. THE WATERPROOFING SYSTEM CONSISTS OF :
   A) PRESSURE WASH CLEAN ALL ROOF AREAS.
   B) APPLY ELASTOMERIC 100% ACRILIC ROOF COATING AS PER MANUFACTURER'S RECOMMENDATION.

2. INSTALL CAP FLASHINGS AT ALL PARAPETS FOLLOWING MANUFACTURER,S RECOMENDATIONS SEE TYP. DETAIL.

3. INSTALL CHEM CURBS TO ANY TUBING THAT PASSES THROUGH THE WATERPROOFING SYSTEM.

PROJECT ADDRESS

FR-CRF-0092 ELDERLY SERVICE CENTER. CALLE FERROCARRIL #11 BO. PUEBLO, LAJAS, P.R. 00667.

GPS LATITUDE/LONGITUDE: 18.04941608, -67.05761236

OWNER

LAJAS MUNICIPALITY

REGISTER No.

358-032-072-01

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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IMPORTANT NOTES TO THE CONTRACTOR:

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454 Hatos, San Juan, PR 00918
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Email: info@ingenium.group

SIGNATURE

William Melendez Rivas, Puerto Rico

FILE

Dwg Name: INGENIUM GROUP

Drawn by: INGENIUM GROUP

Revised by: ING. WILLIAM MELENDEZ

Plot Scale: AS SHOWN

Progress Print:

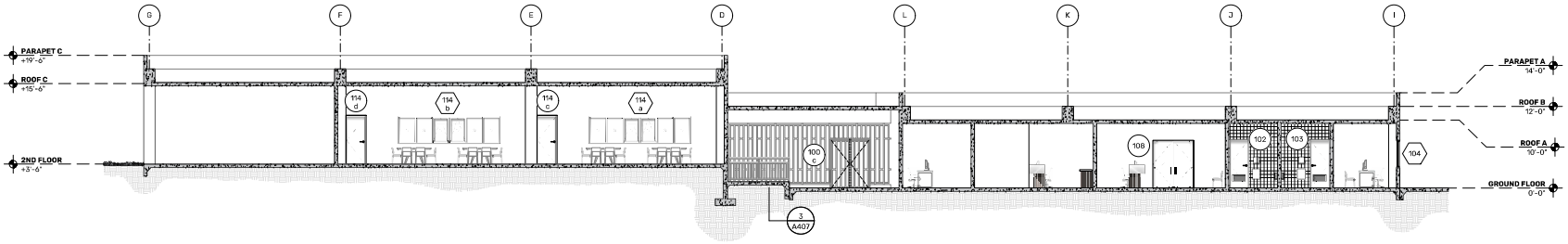
TITLE

PROPOSED ROOF PLAN

DRAWING No.

A109

P R O P O S E D S E C T I O N S



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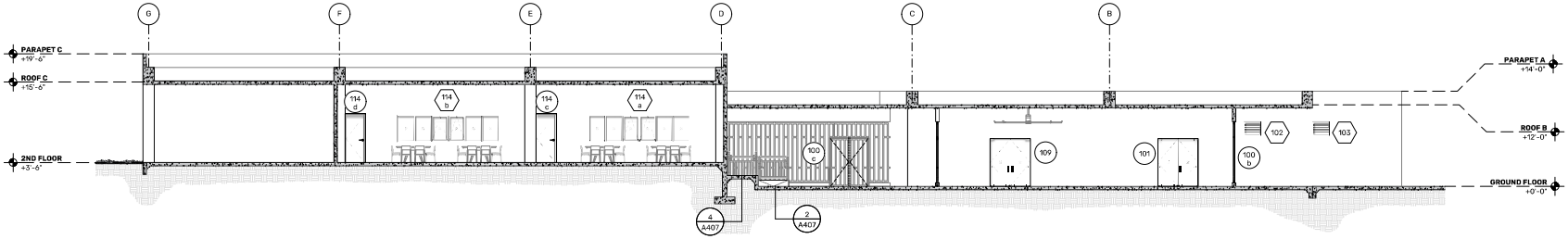

2 PROPOSED SECTION
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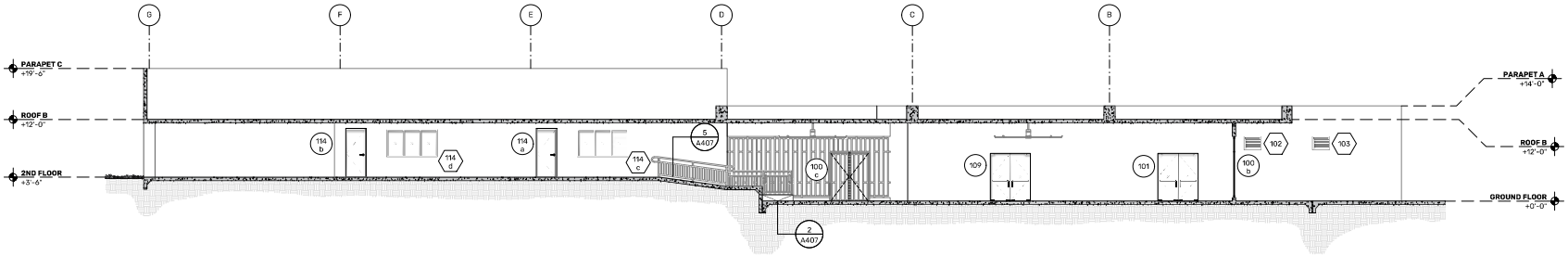

3 PROPOSED SECTION
SCALE: 1/8" = 1'-0"

PROJECT ADDRESS
PR-CRP-0092 ELDERLY SERVICE CENTER. CALLE FERROCARRIL #11 BO. PUEBLO, LAJAS, P.R. 00667.

GPS LATITUDE/LONGITUDE:
18.04941608, -67.05761236

OWNER
LAJAS MUNICIPALITY

REGISTER No.
358-032-072-01

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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CERTIFICATION
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INGENIUM PROFESSIONAL GROUP
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654 Plaza, San Juan, PR 00918
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SIGNATURE

William Meléndez Rivas
Lic. 16385
Puerto Rico

FILE

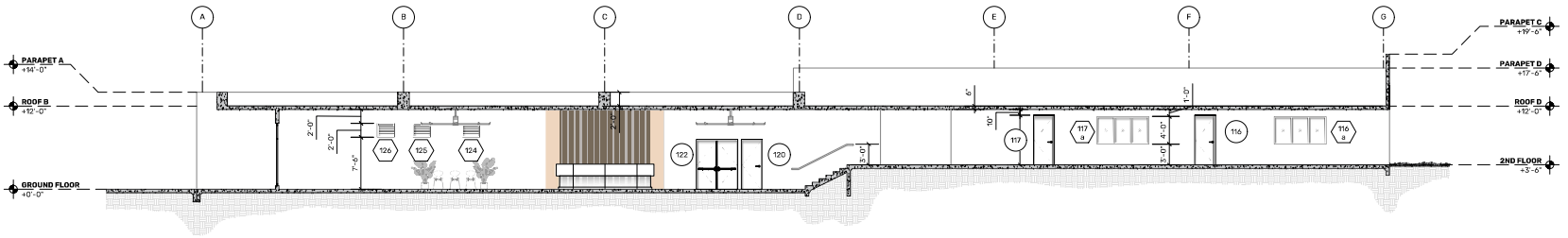
Dwg Name:	INGENIUM GROUP
Drawn by:	INGENIUM GROUP
Revised by:	ING. WILLIAM MELENDEZ
Plot Scale:	AS SHOWN
Progress Print:	

TITLE

DRAWING No.

PAGE:

P R O P O S E D S E C T I O N S



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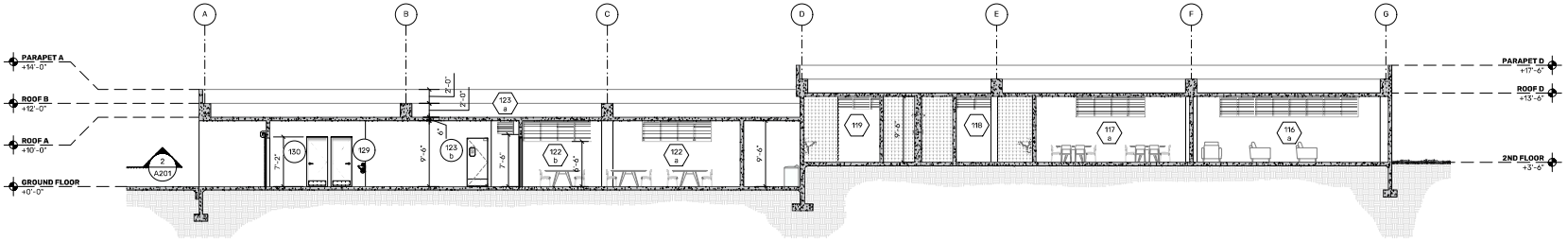

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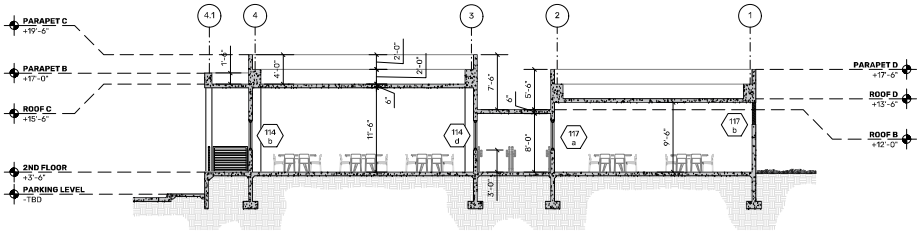

3 PROPOSED SECTION
SCALE: 1/8" = 1'-0"

PROJECT ADDRESS
PR-CRP-0092 ELDERLY SERVICE CENTER, CALLE FERROCARRIL #11 BO. PUEBLO, LAJAS, P.R. 00667.

GPS LATITUDE/LONGITUDE:
18.0494168, -67.05761236

OWNER
LAJAS MUNICIPALITY

REGISTER No.
3 5 8 - 0 3 2 - 0 7 2 - 0 1

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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INGENIUM PROFESSIONAL GROUP
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Tel. (787) 918-GRUV / 0891
www.ii-info@ingenium.group

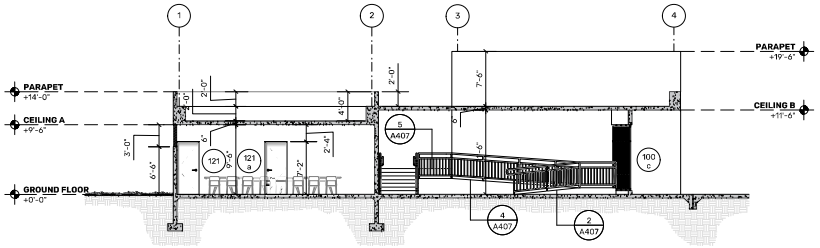
SIGNATURE
William Meléndez Rivas
Lic. 16383
Puerto Rico

FILE
Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
PROPOSED GROUND FLOOR PLAN_OPTION 3

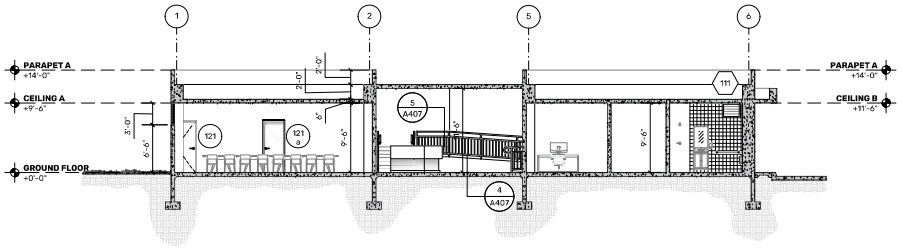
DRAWING No.
A201

P R O P O S E D S E C T I O N S



1 PROPOSED SECTION

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



2 PROPOSED SECTION

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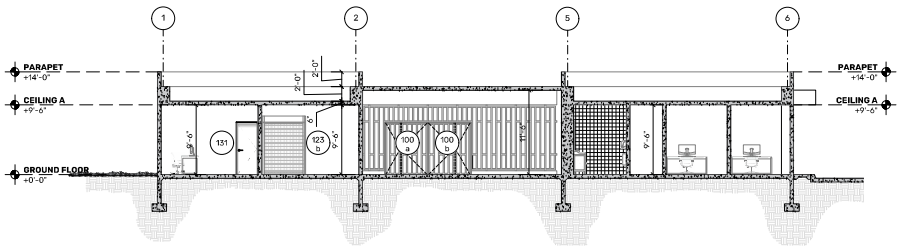

3 PROPOSED SECTION

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

PROJECT ADDRESS

PR-CRP-0092 ELDERLY SERVICE CENTER, CALLE FERROCARRIL #11 BO. PUEBLO, LAJAS, P.R. 00667.

GPS LATITUDE/LONGITUDE: 18.04941608, -67.05761236

OWNER

LAJAS MUNICIPALITY

REGISTER No.

3 5 8 - 0 3 2 - 0 7 2 - 0 1

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
--	--	--	--	--

IMPORTANT NOTES TO THE CONTRACTOR:

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE PROCEEDING WITH WORK, IF ANY DISCREPANCIES, ERRORS OR OMISSIONS SHOULD BE ENCOUNTERED ON PLANS, CONTRACTOR SHALL NOTIFY THE ENGINEER BEFORE ANY PART OF THE WORK IS STARTED SO THAT PROPER CORRECTIONS ARE MADE. IF ENGINEER IS NOT NOTIFIED PRIOR TO COMMENCING OF THE WORK, ALL DESIGNS AND DRAWINGS HEREIN AND PRINTS ISSUED BY THE ENGINEER ARE THE PROPERTY OF THE ENGINEER AND SHALL NOT BE REUSED ON ANY OTHER LOCATION EXCEPT THE ONE FOR WHICH THEY EXPRESSLY DESIGNED. IF THESE DRAWINGS OR ANY PART THEREOF IS REPRODUCED WITHOUT THE CONSENT OF THE ENGINEER, THE PERSON WHO IS DOING WILL BE INDEBTED TO THE ENGINEER FOR HIS FULL COMMISSION. CONTRACTOR SHALL NOT USE FOR CONSTRUCTION PURPOSES ANY DRAWINGS THAT WERE ADVANCE TO HIM PRIOR TO THE BEGINNING OF CONSTRUCTION. ALL PLANS BEING USED BY CONTRACTOR SHOULD HAVE A LABEL SAYING "FOR CONSTRUCTION ONLY" SIGNED AND SEALED BY THE ENGINEER.

CERTIFICATION

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INGENIUM PROFESSIONAL GROUP

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654 Plaza, San Juan, PR 00138
Tel. (787) 918-6800 / 6801
Email: info@ingenium.group

SIGNATURE

FILE

Dwg Name: INGENIUM GROUP

Drawn by: INGENIUM GROUP

Revised by: ING. WILLIAM MELENDEZ

Plot Scale: AS SHOWN

Progress Print:

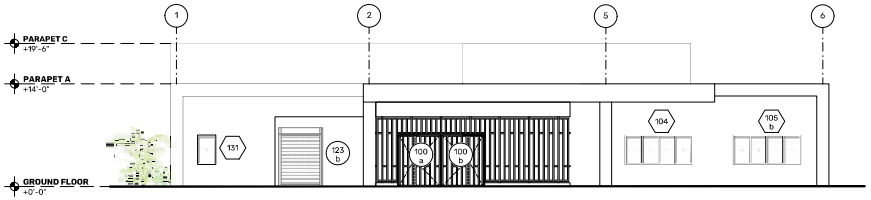
TITLE

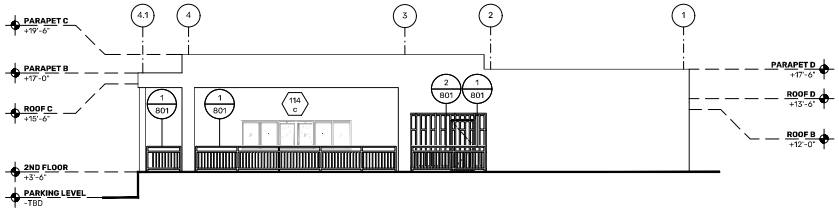
PROPOSED GROUND FLOOR PLAN_OPTION 3

DRAWING No.

A202

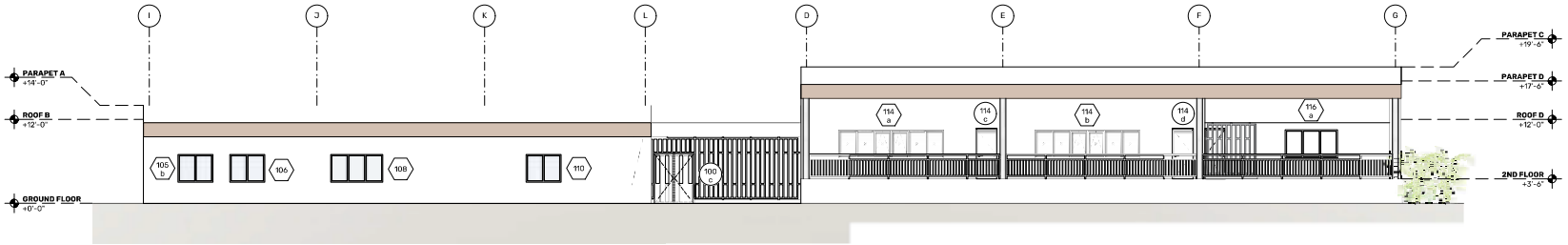
P R O P O S E D E L E V A T I O N S



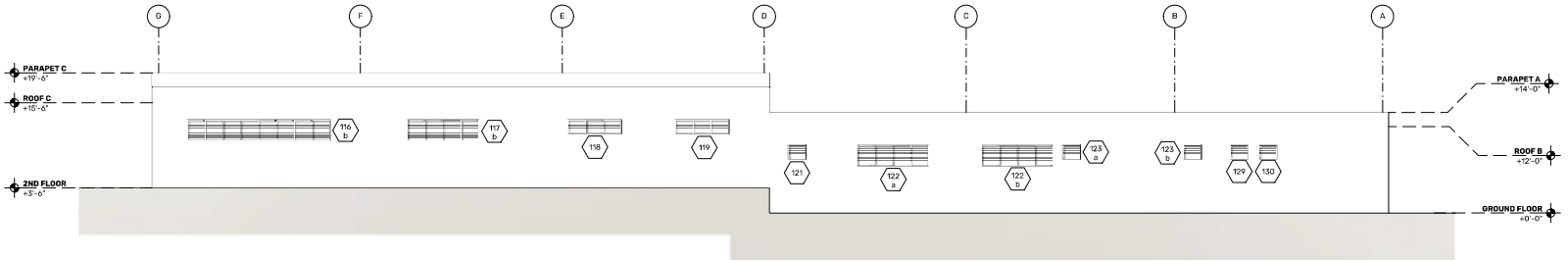


1 PROPOSED ELEVATION
SCALE: 1/8" = 1'-0"

2 PROPOSED ELEVATION
SCALE: 1/8" = 1'-0"



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



4 PROPOSED ELEVATION
SCALE: 1/8" = 1'-0"

PROJECT ADDRESS
PR-CRP-0092 ELDERLY SERVICE CENTER, CALLE FERROCARRIL #11 BO. PUEBLO, LAJAS, P.R. 00667.

GPS LATITUDE/LONGITUDE: 18.0494168, -67.05761236

OWNER
LAJAS MUNICIPALITY

REGISTER No.
3 5 8 - 0 3 2 - 0 7 2 - 0 1

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
--	--	--	--	--

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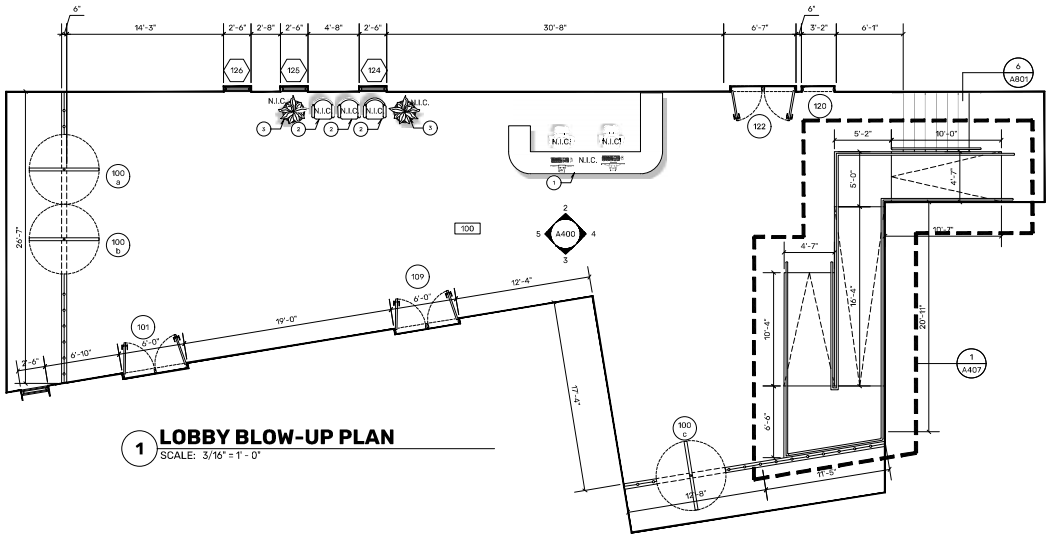
SIGNATURE
William Meléndez Rivas, Licensed Engineer, Lic. 16383 PE, Puerto Rico

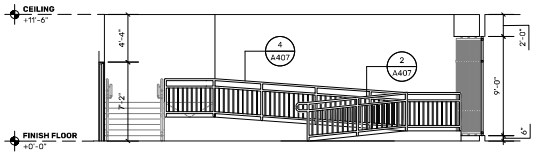
FILE
Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
PROPOSED GROUND FLOOR PLAN_OPTION 3

DRAWING No.
A300



1 LOBBY BLOW-UP PLAN
SCALE: 3/16" = 1' - 0"



4 LOBBY INT. ELEV.
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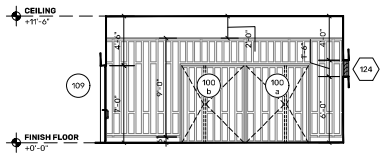
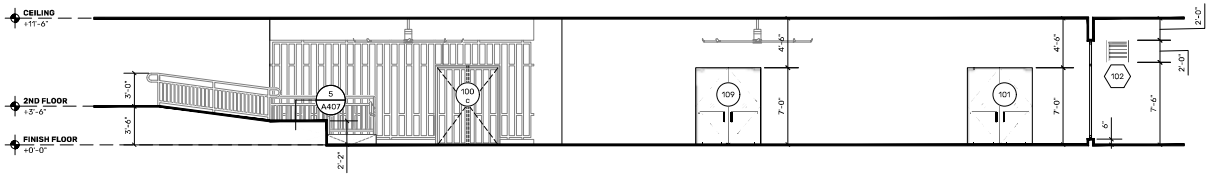


5 LOBBY INT. ELEV.
SCALE: 3/16" = 1' - 0"

2 LOBBY INT. ELEV.
SCALE: 3/16" = 1' - 0"



3 LOBBY INT. ELEV.
SCALE: 3/16" = 1' - 0"

FIXTURES & ACCESSORIES SCHEDULE

NO.	ITEM	QTY.	MANUFACTURER	MODEL NO.	MATERIAL	COMMENTS
1	SERVICE COUNTER	1	-	-	-	-
2	CHAIRS	3	-	-	-	-
3	PLANTS	2	-	-	-	-

NOTES:

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PROJECT ADDRESS
PR-CRP-0092 ELDERLY SERVICE CENTER, CALLE FERROCARRIL #11 BO. PUEBLO, LAJAS, P.R. 00667.

GPS LATITUDE/LONGITUDE: 18.04941608, -67.05761236

OWNER
LAJAS MUNICIPALITY

REGISTER No.
358-032-072-01

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
--	--	--	--	--

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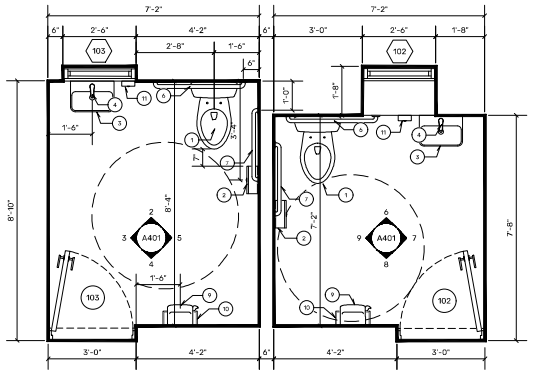
tel. (787) 919-4890 / 4891
Email: info@ingeniumpg.com

SIGNATURE
William Meléndez Rivas
Puerto Rico

FILE
Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
LOBBY_BLOW UP

DRAWING No.
A400



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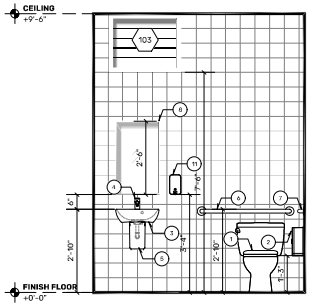

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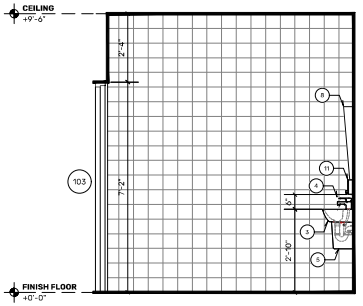

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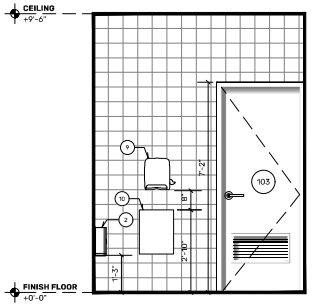

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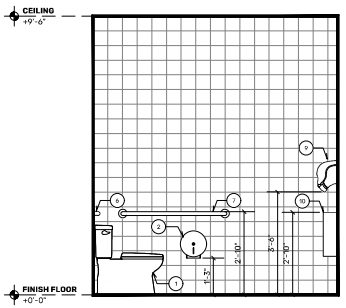

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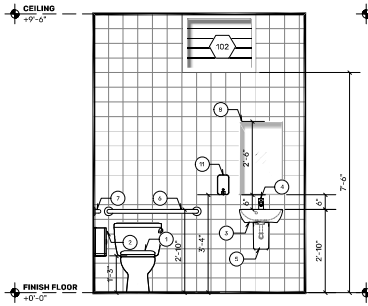

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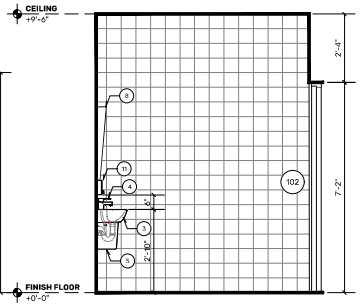

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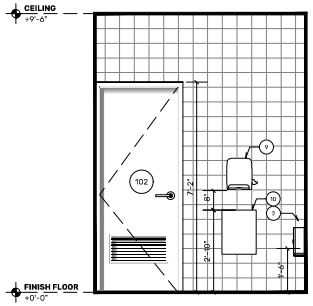

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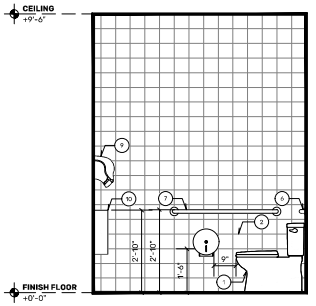

9 RESTROOM INT. ELEV.
SCALE: 1/2" = 1' - 0"

FIXTURES & ACCESSORIES SCHEDULE

NO.	ITEM	QTY.	MANUFACTURER	MODEL NO.	MATERIAL	COMMENTS
1	FLOOR MOUNTED TOILET	2	KOHLER	K31668-0	CERAMIC/ PORCELAIN	1.28 GPF WHITE
2	TOILET PAPER HOLDER	2	BOBRICK	B-2890	STAINLESS STEEL	SURFACE MOUNTED, JUMBO-ROLL
3	WASHBASIN	2	DURAVIT	0719450000	VITREOUS CHINA	WALL-MOUNTED, SINGLE HOLE DRILLING, P-TRAP; **K-8998-CP**
4	FAUCET	2	KOHLER	K-97282-4-CP	CHROME	0.5 GPM, SINGLE HOLE
5	WASHBASIN COVER	2	DURAVIT	0858410000	VITREOUS CHINA	NEEDS DURAVIT MOUNTING BRACKET **#005503**
6	GRAB BAR 36 IN	1	BOBRICK	B5806x36	STAINLESS STEEL	1-1/2" DIAMETER TUBING
7	GRAB BAR 42 IN	1	BOBRICK	B5806x42	STAINLESS STEEL	1-1/2" DIAMETER TUBING
8	WALL MIRROR	2	BOBRICK	B-2931830	STAINLESS STEEL	TILTED MIRROR, SURFACE MOUNTED
9	PAPER TOWEL DISPENSER	2	SAN JAMAR	SJMT950TBK	BLACK	LEVER OPERATED, 8 IN. ROLL
10	TRASH CAN	2	ALPINE INDUSTRIES	491	STAINLESS STEEL	6 gals. MOUNTED WASTE RECEPTACLE TRASH CAN
11	SOAP DISPENSER	2	BOBRICK	B-2111	STAINLESS STEEL	40-FL OZ, WALL TO PUSH-BUTTON

NOTES:

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OWNER
LAJAS MUNICIPALITY

REGISTER No.
358-032-072-01

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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IMPORTANT NOTES TO THE CONTRACTOR:

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE PROCEEDING WITH WORK. IF ANY DISCREPANCIES, ERRORS OR OMISSIONS SHOULD BE ENCOUNTERED ON PLANS, CONTRACTOR SHALL NOTIFY THE ENGINEER BEFORE ANY PART OF THE WORK IS STARTED SO THAT PROPER CORRECTIONS ARE MADE. IF ENGINEER IS NOT NOTIFIED PRIOR TO COMMENCING OF THE WORK, ALL DESIGNS AND DRAWINGS HEREIN AND PRINTS ISSUED BY THE ENGINEER ARE THE PROPERTY OF THE ENGINEER AND SHALL NOT BE REUSED ON ANY OTHER LOCATION EXCEPT THE ONE FOR WHICH THEY EXPRESSLY DESIGNED. IF THESE DRAWINGS OR ANY PART THEREOF IS REPRODUCED WITHOUT THE CONSENT OF THE ENGINEER, THE PERSON WHO IS DOING WILL BE INSERTED TO THE ENGINEER FOR HIS FULL COMMISSION. CONTRACTOR SHALL NOT USE FOR CONSTRUCTION PURPOSES ANY DRAWINGS THAT WERE ADVANCE TO HIM PRIOR TO THE BEGINNING OF CONSTRUCTION. ALL PLANS BEING USED BY CONTRACTOR SHOULD HAVE A LABEL SAYING "FOR CONSTRUCTION ONLY" SIGNED AND SEALED BY THE ENGINEER.

CERTIFICATION

I, WILLIAM MELENDEZ RIVAS, LIC. 16,583, CERTIFY THAT I AM THE PROFESSIONAL WHO MADE, DESIGNED OR PREPARED THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 14-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY" AND WITH THE [LAW NO. 319 OF MAY 15, 1938, AS AMENDED; ACT NO. 96 OF JULY 5, 1978, AS AMENDED; AS APPLICABLE]. I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY IGNORANCE OR NEGLIGENCE EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION IN THE OGPE.

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654 Plaza, San Juan, PR 00738
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Email: info@ingeniumgroup

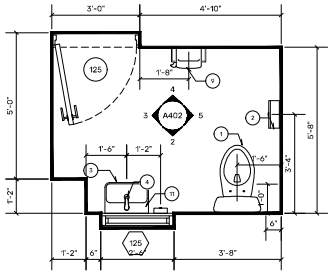
SIGNATURE

FILE

Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
RESTROOMS [ADMIN AREA]_BLOW UP

DRAWING No.
A401



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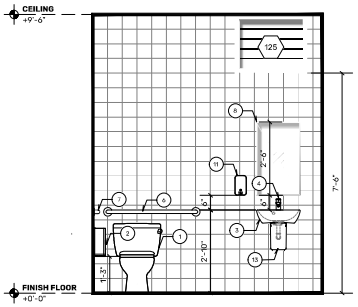
SCALE: 1/2" = 1' - 0"



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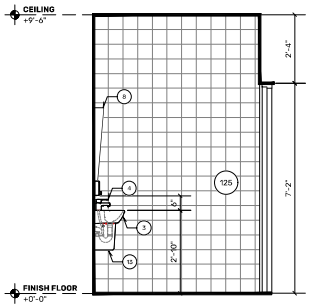

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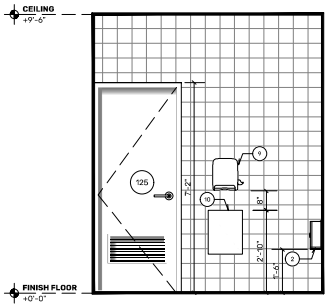

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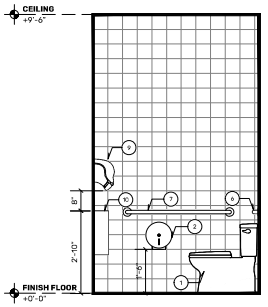

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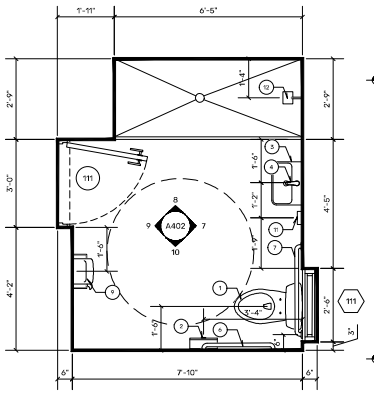

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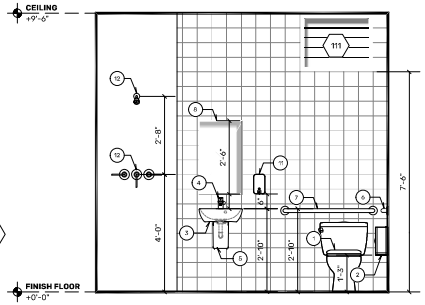
SCALE: 1/2" = 1' - 0"



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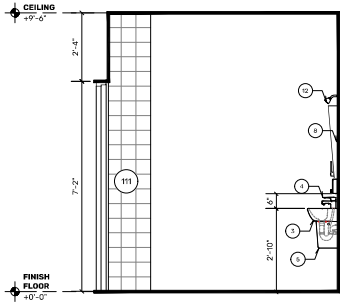

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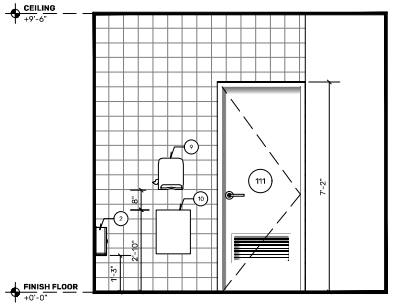

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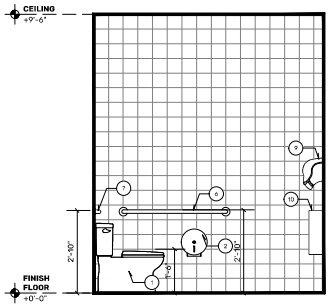
SCALE: 1/2" = 1' - 0"



10 RESTROOM INT. ELEV.
SCALE: 1/2" = 1' - 0"

FIXTURES & ACCESSORIES SCHEDULE

NO.	ITEM	QTY.	MANUFACTURER	MODEL NO.	MATERIAL	COMMENTS
1	FLOOR MOUNTED TOILET	2	KOHLER	K31668-0	CERAMIC/ PORCELAIN	1.28 GPF WHITE
2	TOILET PAPER HOLDER	2	BOBRICK	B-2890	STAINLESS STEEL	SURFACE MOUNTED, JUMBO-ROLL
3	WASHBASIN	2	DURAVIT	0719450000	VITREOUS CHINA	WALL-MOUNTED, SINGLE HOLE DRILLING, P-TRAP: **K-8998-CP**
4	FAUCET	2	KOHLER	K-97282-4-CP	CHROME	0.5 GPM, SINGLE HOLE
5	WASHBASIN COVER	2	DURAVIT	0858410000	VITREOUS CHINA	NEEDS DURAVIT MOUNTING BRACKET **#005503**
6	GRAB BAR 36 IN	2	BOBRICK	B5806x36	STAINLESS STEEL	1-1/2" DIAMETER TUBING
7	GRAB BAR 42 IN	2	BOBRICK	B5806x42	STAINLESS STEEL	1-1/2" DIAMETER TUBING
8	WALL MIRROR	2	BOBRICK	B-2931830	STAINLESS STEEL	TILTED MIRROR, SURFACE MOUNTED
9	PAPER TOWEL DISPENSER	2	SAN JAMAR	SJMT950TBK	BLACK	LEVER OPERATED, 8 IN. ROLL
10	TRASH CAN	2	ALPINE INDUSTRIES	491	STAINLESS STEEL	6 gals. MOUNTED WASTE RECEPTACLE TRASH CAN
11	SOAP DISPENSER	2	BOBRICK	B-2111	STAINLESS STEEL	40-FL OZ, WALL TO PUSH-BUTTON
12	SHOWER FAUCET	1	ARAGON	HD834X-0001	CHROME	VALVE INCLUDED

NOTES:

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PROJECT ADDRESS
PR-CRP-0092 ELDERLY SERVICE CENTER, CALLE FERROCARRIL #11 BO. PUEBLO, LAJAS, P.R. 00667.

GPS LATITUDE/LONGITUDE: 18.04941608, -67.05761236

OWNER
LAJAS MUNICIPALITY

REGISTER No.
358-032-072-01

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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Email: info@ingeniumpg.com

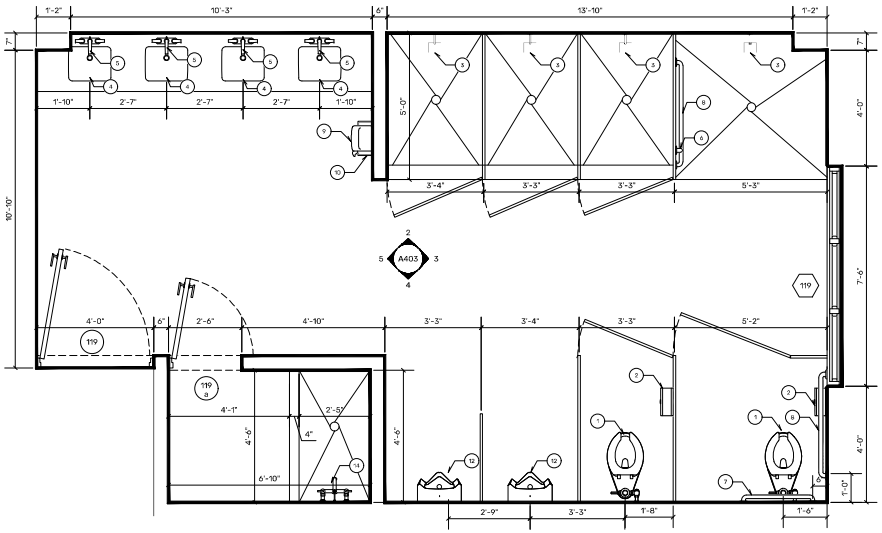
SIGNATURE

William Meléndez Rivas, Puerto Rico

FILE
Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

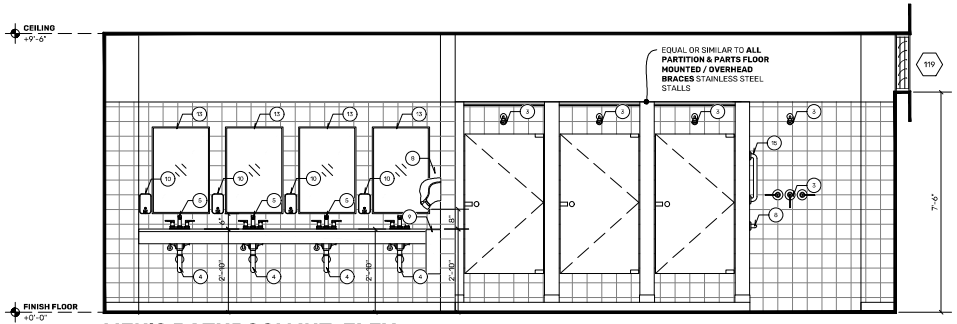
TITLE
RESTROOMS [NURSING & KITCHEN]_BLOW UP

DRAWING No.
A402



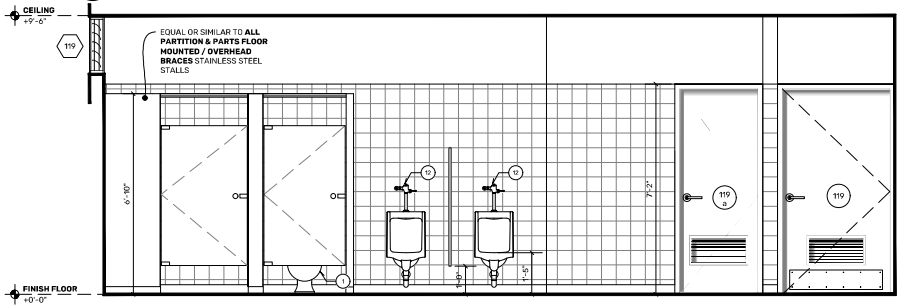
1 MEN'S BATHROOM BLOW-UP PLAN

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



2 MEN'S BATHROOM INT. ELEV.

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



4 MEN'S BATHROOM INT. ELEV.

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

FIXTURES & ACCESSORIES SCHEDULE

NO.	ITEM	QTY.	MANUFACTURER	MODEL NO.	MATERIAL	COMMENTS
1	FLOOR MOUNTED TOILET [FLUSHOMETER] WITH FLUSH VALVE	2	AMERICAN STANDARD	MADERA	CERAMIC/ PORCELAIN	1.1 GPF, MANUAL FLUSH, WHITE
2	TOILET PAPER HOLDER	2	BOBRICK	B-2890	STAINLESS STEEL	SURFACE MOUNTED, JUMBO-ROLL
3	SHOWER FAUCET COMBO	4	ARAGON	HD834X-0001	CHROME	VALVE INCLUDED
4	SINK	4	KOHLER	K-2882-0	CERAMIC/ PORCELAIN	RECTANGLE UNDERMOUNTED SINK - WHITE
5	FAUCET	4	GLACIER BAY	HDQF51A1130CP	CHROME	IRENA 4IN CENTERESET 2 HANDLE
6	GRAB BAR 18 IN	1	BOBRICK	B6806x18	STAINLESS STEEL	1-1/2" DIAMETER TUBING
7	GRAB BAR 36 IN	2	BOBRICK	B6806x36	STAINLESS STEEL	1-1/2" DIAMETER TUBING
8	GRAB BAR 42 IN	2	BOBRICK	B6806x42	STAINLESS STEEL	1-1/2" DIAMETER TUBING
9	TOWEL DISPENSER	1	SAN JAMAR	SJMT950TBK	BLACK PLASTIC	LEVER OPERATED, 8 IN. ROLL TOWEL
10	TRASH CAN	1	ALPINE INDUSTRIES	491	STAINLESS STEEL	6 GAL, SURFACE MOUNTED WASTE RECEPTACLE
11	SOAP DISPENSER	4	BOBRICK	B-2111	STAINLESS STEEL	40 OZ SURFACE MOUNTED SOAP
12	URINAL	2	AMERICAN STANDARD	6581001.020	CERAMIC/ PORCELAIN	.0125-1.0 GPF, TOP SPUD
13	WALL MIRROR	4	BOBRICK	B-2931830	STAINLESS STEEL	TILTED MIRROR, SURFACE MOUNTED
14	FAUCET	1	AMERICAN STANDARD	8345115.002	CHROME	12" SPOUT, WALL-MOUNTED

NOTES:

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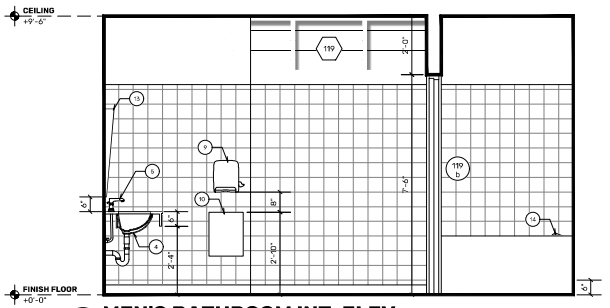
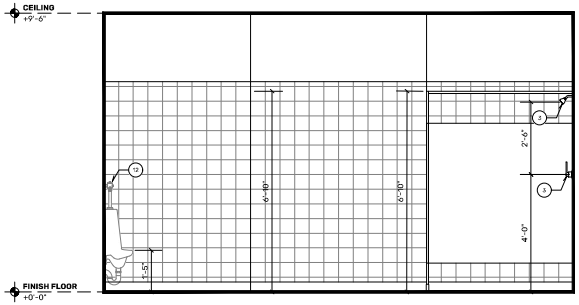


3 MEN'S BATHROOM INT. ELEV.

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



5 MEN'S BATHROOM INT. ELEV.

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

PROJECT ADDRESS

PR-CRP-0092 ELDERLY SERVICE CENTER, CALLE FERROCARRIL #11 BO. PUEBLO, LAJAS, P.R. 00667.

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REVISIONS

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Email: info@ingeniumgroup

SIGNATURE

William Meléndez Rivas, Puerto Rico

FILE

Dwg Name: INGENIUM GROUP

Drawn by: INGENIUM GROUP

Revised by: ING. WILLIAM MELENDEZ

Plot Scale: AS SHOWN

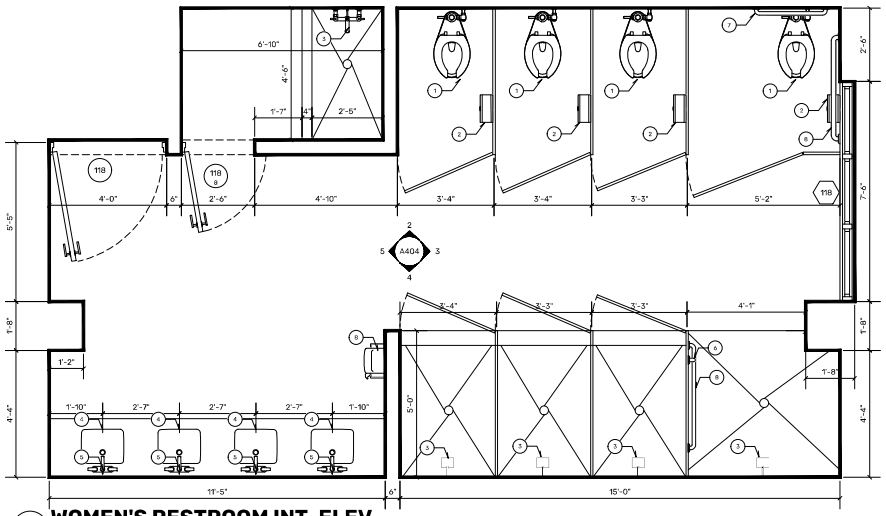
Progress Print:

TITLE

RESTROOMS_BLOW UP

DRAWING No.

A403



1 WOMEN'S RESTROOM INT. ELEV.

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

FIXTURES & ACCESSORIES SCHEDULE

NO.	ITEM	QTY.	MANUFACTURER	MODEL NO.	MATERIAL	COMMENTS
1	FLOOR MOUNTED TOILET (FLUSHOMETER) WITH FLUSH VALVE	4	AMERICAN STANDARD	MADERA	CERAMIC/ PORCELAIN	1.1 GPF, MANUAL FLUSH, WHITE
2	TOILET PAPER HOLDER	4	BOBRICK	B-2890	STAINLESS STEEL	SURFACE MOUNTED, JUMBO-ROLL
3	SHOWER FAUCET	4	ARAGON	HD834X-0001	CHROME	VALVE INCLUDED
4	SINK	4	KOHLER	K-2882-0	CERAMIC/ PORCELAIN	RECTANGLE UNDERMOUNTED SINK - WHITE
5	FAUCET	4	GLACIER BAY	HDQFS1A1130CP	CHROME	IRENA 4IN CENTERESET 2 HANDLE
6	GRAB BAR 18 IN	1	BOBRICK	B5806x18	STAINLESS STEEL	1-1/2" DIAMETER TUBING
7	GRAB BAR 36 IN	1	BOBRICK	B5806x36	STAINLESS STEEL	1-1/2" DIAMETER TUBING
8	GRAB BAR 42 IN	2	BOBRICK	B5806x42	STAINLESS STEEL	1-1/2" DIAMETER TUBING
9	TOWEL DISPENSER	1	SAN JAMAR	SJMT950TBK	BLACK PLASTIC	ELEMENT BLACK LEVER ROLL TOWEL DISPENSER
10	TRASH CAN	1	ALPINE INDUSTRIES	491	STAINLESS STEEL	6 gals. MOUNTED WASTE RECEPTACLE
11	SOAP DISPENSER	4	BOBRICK	B-2111	STAINLESS STEEL	40 OZ SURFACE MOUNTED SOAP
12	WALL MIRROR	4	RHODES	218070	-	CLASSIC RECTANGLE FRAMED WHITE WALL-ACCENT MORROR
13	FAUCET	1	AMERICAN STANDARD	8345115.002	CHROME	12" SPOUT, WALL-MOUNTED

NOTES:

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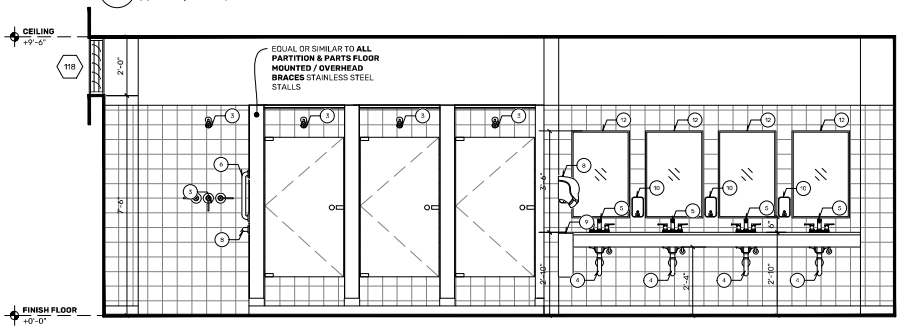
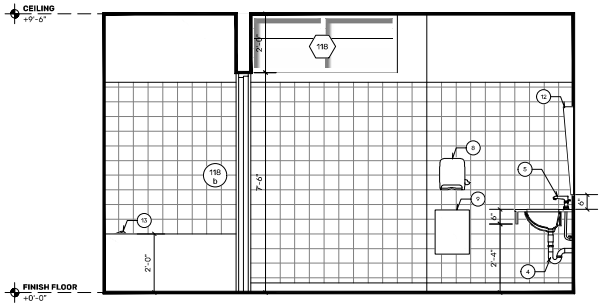


2 BATHROOM INT. ELEV.

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



3 BATHROOM INT. ELEV.

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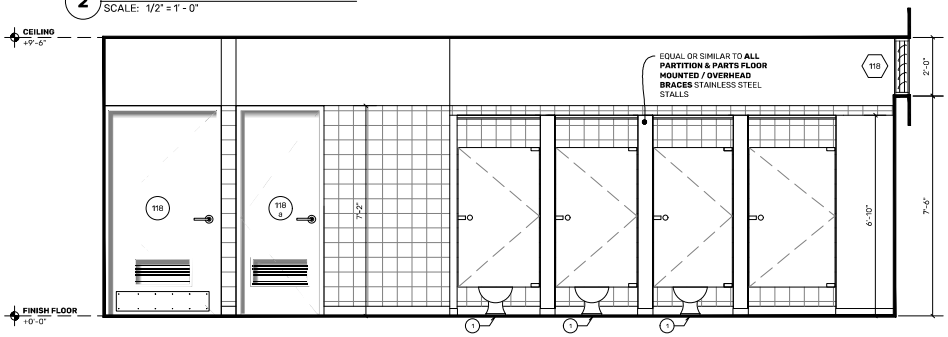

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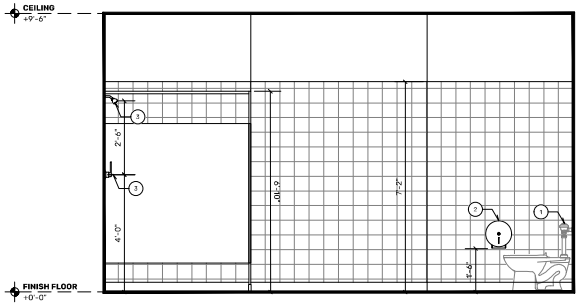
SCALE: 1/2" = 1' - 0"



5 BATHROOM INT. ELEV.

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

PROJECT ADDRESS

PR-CRP-0092 ELDERLY SERVICE CENTER, CALLE FERROCARRIL #11 BO. PUEBLO, LAJAS, P.R. 00667.

GPS LATITUDE/LONGITUDE: 18.04941608, -67.05761236

OWNER

LAJAS MUNICIPALITY

REGISTER No.

3 5 8 - 0 3 2 - 0 7 2 - 0 1

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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CERTIFICATION

I, WILLIAM MELENDEZ RIVAS, LIC. 16,868, CERTIFY THAT I AM THE PROFESSIONAL WHO MADE, DESIGNED OR PREPARED THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 14- 2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY" AND WITH THE [LAW NO. 319 OF MAY 15, 1938, AS AMENDED; ACT NO. 96 OF JULY 5, 1978, AS AMENDED; AS APPLICABLE. I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY IGNORANCE OR NEGLIGENCE EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION IN THE OOPC.

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tel. (787) 919-4898 / 4899
Email: info@ingeniumgroup

SIGNATURE

William Meléndez Rivas, Puerto Rico

FILE

Dwg Name: INGENIUM GROUP

Drawn by: INGENIUM GROUP

Revised by: ING. WILLIAM MELENDEZ

Plot Scale: AS SHOWN

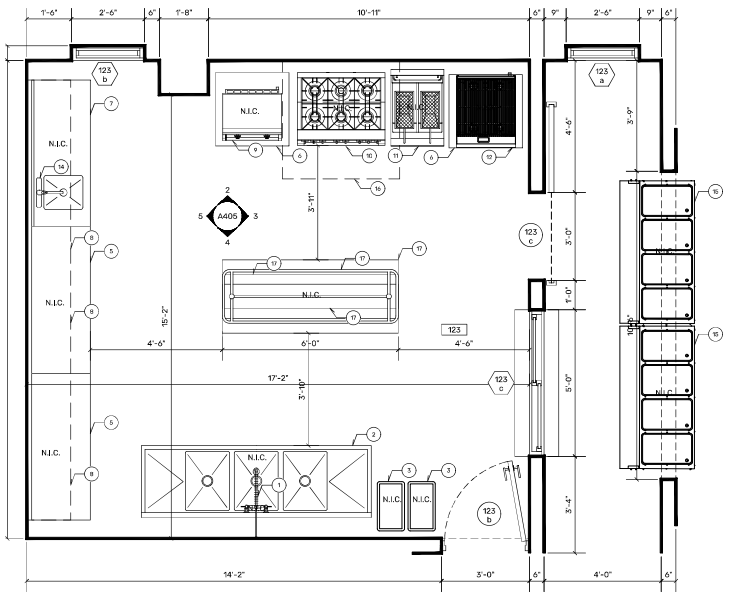
Progress Print:

TITLE

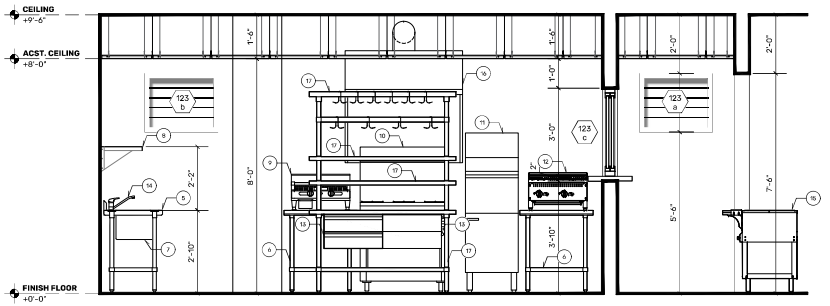
RESTROOMS_BLOW UP

DRAWING No.

A404



1 KITCHEN INTERIOR BLOW-UP
SCALE: 1/2" = 1' - 0"



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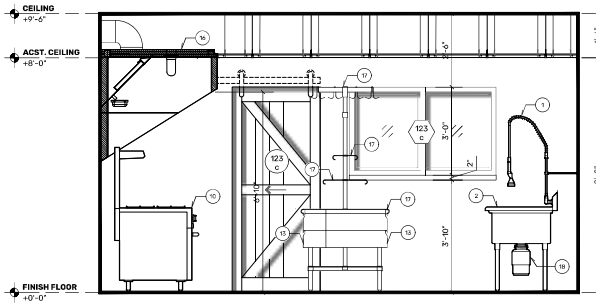
SCALE: 1/2" = 1' - 0"



3 KITCHEN INTERIOR ELEVATION
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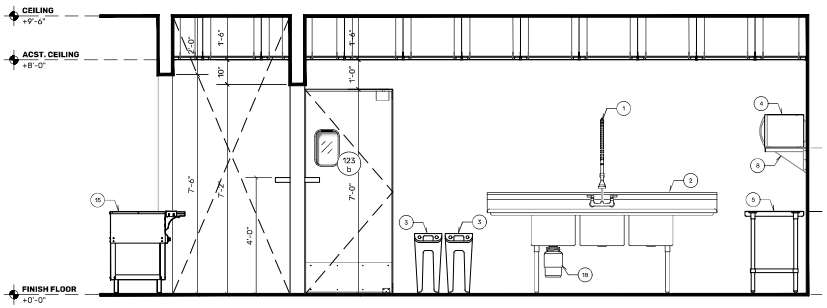
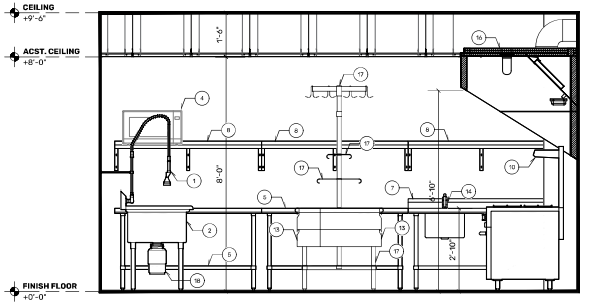


4 KITCHEN INTERIOR ELEVATION
SCALE: 1/2" = 1' - 0"



5 KITCHEN INTERIOR ELEVATION
SCALE: 1/2" = 1' - 0"

PROJECT ADDRESS
PR-CRP-0092 ELDERLY SERVICE CENTER, CALLE FERROCARRIL #11 BO. PUEBLO, LAJAS, P.R. 00667.

GPS LATITUDE/LONGITUDE: 18.04941608, -67.05761236

OWNER
LAJAS MUNICIPALITY

REGISTER No.
3 5 8 - 0 3 2 - 0 7 2 - 0 1

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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SIGNATURE
William Meléndez Rivas, Lic. 16583, Puerto Rico

FILE
Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
KITCHEN_BLOW UP

DRAWING No.
A405

FIXTURES & ACCESSORIES SCHEDULE

NO.	ITEM	QTY.	MANUFACTURER	MODEL NO.	MATERIAL	COMMENTS
1	KITCHEN FAUCET	1	WATERLOO	750PRW8X	CHROME	PULL DOWN FAUCET, WALL MOUNTED, 8" CENTERLINE, 1.15 GPM
2	3-COMPARTMENT SINK	1	REGENCY	600S318242X	STAINLESS STEEL	16 GAUGE, TYPE 304 STAINLESS STEEL, 3 COMPARTMENTS WITH 2 DRAINBOARDS
3	TRASH RECEPTACLE	2	RUBBERMAID	2001581	PLASTIC	23 GAL. WASTEBASKETS
4	MICROWAVE OVEN	1	SOLWAVE	18OMW1000SS	STAINLESS STEEL	20"x 19"x 12" (WxDxH), 1 PHASE 120V, 0.9 CU.FT, 1000W
5	PREP TABLE	2	REGENCY	600T2460G	STAINLESS STEEL	60"x 24"x 34" (WxDxH), 16-GAUGE/304 STAINLESS STEEL, INCLUDES 18-GAUGE TYPE 430 STAINLESS STEEL UNDERSHELF, NO BACKSPLASH
6	PREP TABLE	2	REGENCY	600T3030G	STAINLESS STEEL	30"x 30"x 34" (WxDxH), 16-GAUGE/304 STAINLESS STEEL, INCLUDES 18-GAUGE TYPE 430 STAINLESS STEEL UNDERSHELF, NO BACKSPLASH
7	PREP TABLE W/ SINK	1	REGENCY	60ST2460L	STAINLESS STEEL	60"x 24"x 34" (WxDxH), 16-GAUGE/304 STAINLESS STEEL, INCLUDES 18-GAUGE TYPE 430 STAINLESS STEEL UNDERSHELF, W/ BACKSPLASH.
8	STORAGE SHELF	3	REGENCY	600WS1860HD	STAINLESS STEEL	16 GAUGE, TYPE 304 STAINLESS STEEL, WALL MOUNTED
9	GRIDDLE	1	AVANTCO	177EG24N	STAINLESS STEEL	24" COUNTERTOP GRIDDLE, 2 BURNERS, ELECTRICAL, 15 1/2" X 24" GRIDDLE PLATE, A 208V / 240V
10	RANGE	1	VULCAN	EV36S-6FP24 0	STAINLESS STEEL	36"x 34"x 58" (WxDxH), 6 BURNER, 240 VOLTS, INCLUDES OVEN BASE, ELECTRIC POWER SOURCE
11	DEEP FRYER	1	AVANTCO	177EF40D	STAINLESS STEEL	14"x 28"x 44" (WxDxH), 304 STAINLESS STEEL, 1 PHASE/240V, 40LB, FRY POT, 14kW, TWIN BASKET
12	CHARBROILER	1	AVANTCO	177CAG24RC	STAINLESS STEEL	TWO 30K BTU BURNERS, 24" GAS COUNTERTOP
13	PREP TABLE DRAWERS	2	REGENCY	600DR2020ST 2	STAINLESS STEEL	20 GAUGE, TYPE 430 STAINLESS STEEL, 2 DRAWERS
14	KITCHEN FAUCET	1	GLACIER BAY	HD67896W-00 01	CHROME	1.8 GPM, 1-3 HOLE SINKS
15	STEAM SERVING TABLE	2	VEVOR	CJRT4G2000W 000001V1	STAINLESS STEEL	4-WELL PANS WITH LIDS, EACH PAN HOLDS 5.3 GAL.
16	KITCHEN HOOD	1	CAPTIVEAIRE	SND-2	STAINLESS STEEL	TYPE I, SLOPED WALL CANOPY HOOD, 48"X48"
17	WORK TABLE W/ SHELVES & POT RACK	1	ADVANCE TABCO	TGLG-366, PT-18-72, PT-10-72, SCT-72	STAINLESS STEEL	14 GAUGE TYPE 304 STAINLESS STEEL
18	WASTE DISPOSAL GRINDER	1	INSINKERATOR	EXCEL	STAINLESS STEEL	1 HP, NON-CORDED (HARDWIRED)

NOTES:

- ANY SPECIFIED FIXTURES OR FURNITURE MUST BE **EQUAL OR SIMILAR AND DOESN'T HAVE TO BE BRAND SPECIFIC.** FURNITURE AND REMOVABLE EQUIPMENT ILLUSTRATED AND MARKED N.I.C. (NOT IN CONTRACT), WILL NOT BE INCLUDED IN THE BASE BID FOR THE CONSTRUCTION CONTRACT. IT IS PROVIDED AS **DESIGN REFERENCE FOR ILLUSTRATIVE, ELECTRICAL AND MECHANICAL EQUIPMENT COORDINATION ONLY.** CONTRACTOR MUST **SUBMIT SHOP DRAWINGS** OF FIXTURES AND/OR FURNITURE TO BE USED.

PROJECT ADDRESS
PR-CRP-0092 ELDERLY SERVICE CENTER, CALLE FERROCARRIL #11 BO. PUEBLO, LAJAS, P.R. 00667.

GPS LATITUDE/LONGITUDE: 18.04941608, -67.05761236

OWNER
LAJAS MUNICIPALITY

REGISTER No.
3 5 8 - 0 3 2 - 0 7 2 - 0 1

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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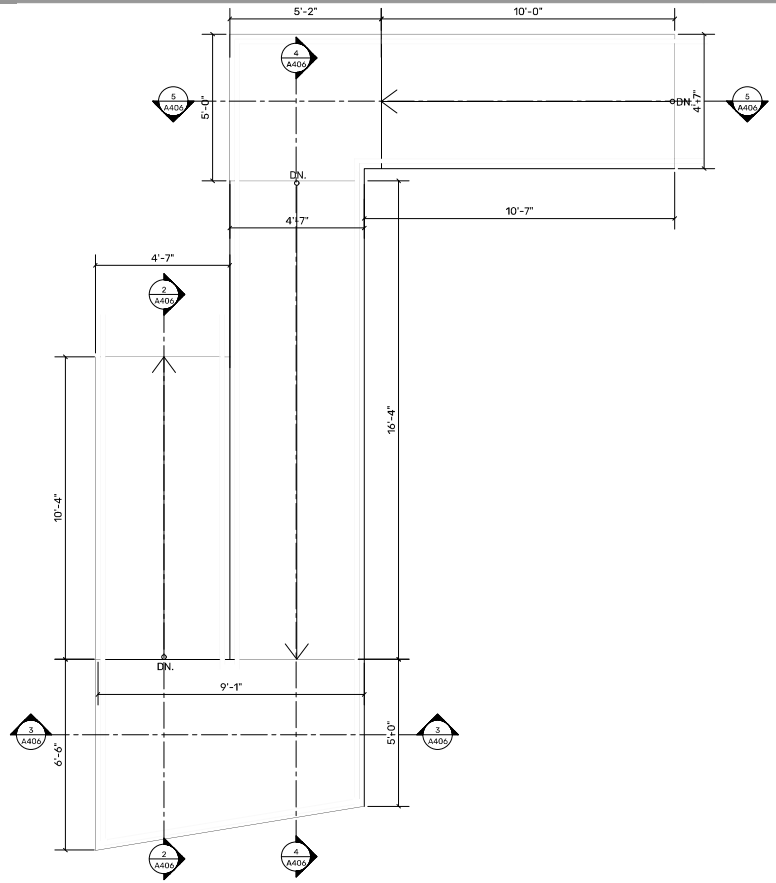
SIGNATURE
William Meléndez Rivas, Puerto Rico

FILE
Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
KITCHEN FIXTURES & ACCESSORIES SCHEDULE

DRAWING No.
A406

P R O P O S E D R A M P B L O W U P S



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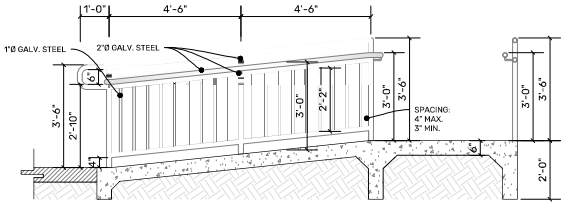

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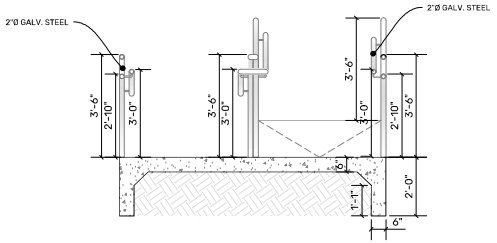

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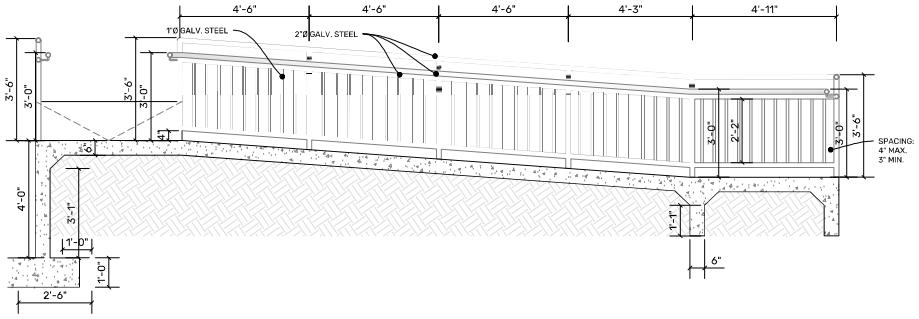

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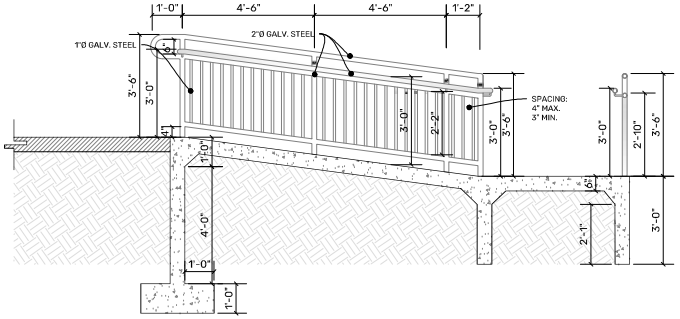

5 PROPOSED INTERIOR RAMP_SECTION
SCALE: 1/2" = 1' - 0"

PROJECT ADDRESS
PR-CRP-0092 ELDERLY SERVICE CENTER, CALLE FERROCARRIL #11 BO. PUEBLO, LAJAS, P.R. 00667.

GPS LATITUDE/LONGITUDE:
18.0494160B, -67.05761236

OWNER
LAJAS MUNICIPALITY

REGISTER No.
358-032-072-01

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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www.ii.info@ingenium.group

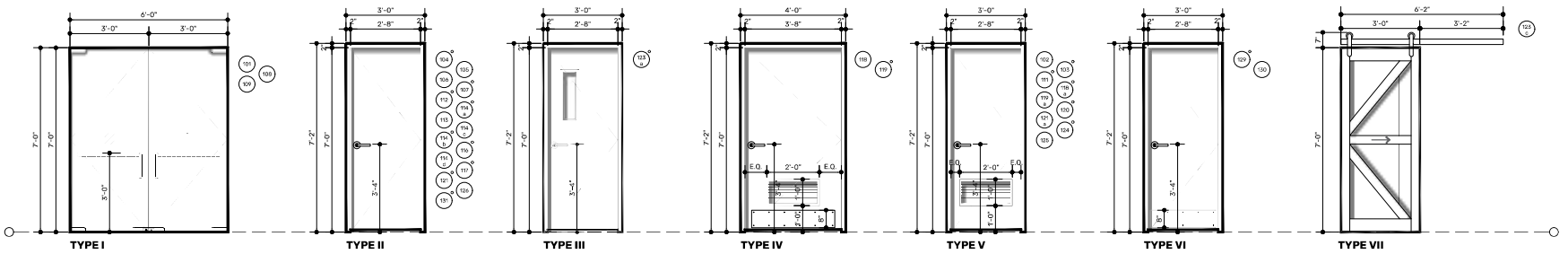
SIGNATURE
William Meléndez Rivas, Licensed, Lic. 16383 PE, Puerto Rico

FILE
Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

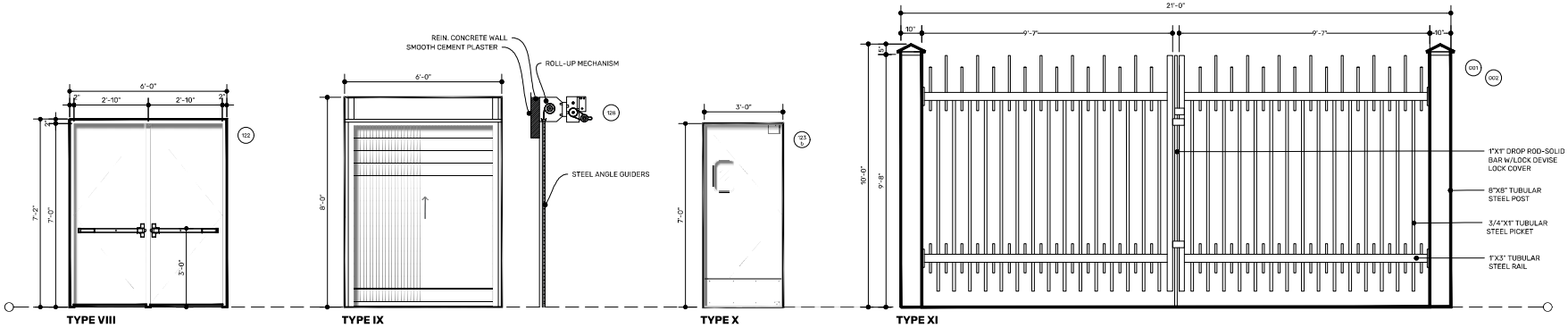
TITLE
PROPOSED RAMP BLOW UPS

DRAWING No.
A407

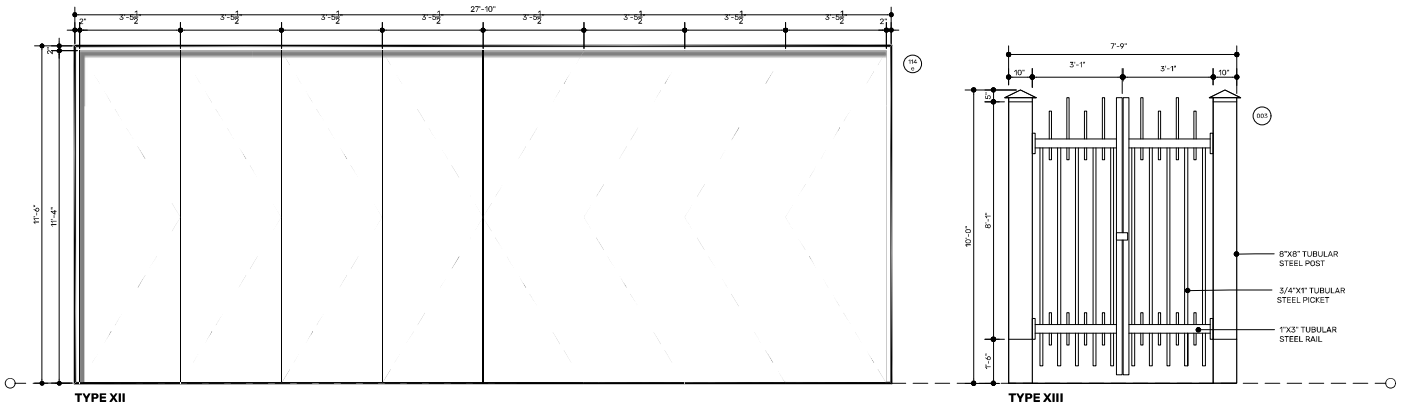
D O O R S C H E D U L E



TYPE I TYPE II TYPE III TYPE IV TYPE V TYPE VI TYPE VII

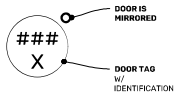


TYPE VIII TYPE IX TYPE X TYPE XI



TYPE XII TYPE XIII

LEGEND



PROJECT ADDRESS

PR-CRP-0092 ELDERLY SERVICE CENTER. CALLE FERROCARRIL #11 BO. PUEBLO, LAJAS, P.R. 00667.

GPS LATITUDE/LONGITUDE: 18.04941608, -67.05761236

OWNER

LAJAS MUNICIPALITY

REGISTER No.

3 5 8 - 0 3 2 - 0 7 2 - 0 1

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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IMPORTANT NOTES TO THE CONTRACTOR:

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CERTIFICATION

I, WILLIAM MELENDEZ RIVAS, LIC. 16383, CERTIFY THAT I AM THE PROFESSIONAL WHO [MADE, DESIGNED OR PREPARED] THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 14-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY" AND WITH THE [LAW NO. 319 OF MAY 15, 1938, AS AMENDED; ACT NO. 96 OF JULY 6, 1978, AS AMENDED; AS APPLICABLE]. I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY IGNORANCE OR NEGLIGENCE, EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE OOPE.

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SIGNATURE

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Lic. 16383
Puerto Rico

FILE

Dwg Name: INGENIUM GROUP

Drawn by: INGENIUM GROUP

Revised by: ING. WILLIAM MELENDEZ

Plot Scale: AS SHOWN

Progress Print:

TITLE

DOOR SCHEDULE

DRAWING No.

A500

D O O R S C H E D U L E T A B L E S

DOOR SCHEDULE

TYPE	ID NUMBER	OPENING		DOOR								FRAME		HARDWARE		OPERATION	NOTES
				PANEL		MATERIAL		GLAZING		LOUVER							
		WIDTH	HEIGHT	WIDTH	HEIGHT	FINISH	COLOR	TINT	THICKNESS	WIDTH	HEIGHT	FINISH	COLOR	SET NO.	KEYSIDE ROOM NO.		
I	101, 109	6'-0" (72")	7'-2" (86")	2 x 3'-0" (36")	7'-0" (84")	GLASS	-	-	-	-	-	-	-	1	100	LHR/RHR	FRAMELESS DOUBLE DOOR
	108	6'-0" (72")	7'-2" (86")	2 x 3'-0" (36")	7'-0" (84")	GLASS	-	-	-	-	-	-	-	1	101	LH/RH	FRAMELESS DOUBLE DOOR
II	104, 107	3'-0" (36")	7'-2" (86")	2'-8" (32")	7'-0" (84")	ALUM.	DARK GREY	-	-	-	-	ALUM.	DARK GREY	2	101	LH	SINGLE HOLLOW METAL DOOR
	105, 106	3'-0" (36")	7'-2" (86")	2'-8" (32")	7'-0" (84")	ALUM.	DARK GREY	-	-	-	-	ALUM.	DARK GREY	2	101	RH	SINGLE HOLLOW METAL DOOR
	112	3'-0" (36")	7'-2" (86")	2'-8" (32")	7'-0" (84")	ALUM.	DARK GREY	-	-	-	-	ALUM.	DARK GREY	2	109	LH	SINGLE HOLLOW METAL DOOR
	113	3'-0" (36")	7'-2" (86")	2'-8" (32")	7'-0" (84")	ALUM.	DARK GREY	-	-	-	-	ALUM.	DARK GREY	2	109	RH	SINGLE HOLLOW METAL DOOR
	114a, 114b, 116, 117	3'-0" (36")	7'-2" (86")	2'-8" (32")	7'-0" (84")	ALUM.	DARK GREY	-	-	-	-	ALUM.	DARK GREY	2	100	LHR	SINGLE HOLLOW METAL DOOR
	114c, 114d	3'-0" (36")	7'-2" (86")	2'-8" (32")	7'-0" (84")	ALUM.	DARK GREY	-	-	-	-	ALUM.	DARK GREY	2	100	RHR	SINGLE HOLLOW METAL DOOR
	121	3'-0" (36")	7'-2" (86")	2'-8" (32")	7'-0" (84")	ALUM.	DARK GREY	-	-	-	-	ALUM.	DARK GREY	2	122	LH	SINGLE HOLLOW METAL DOOR
	126	3'-0" (36")	7'-2" (86")	2'-8" (32")	7'-0" (84")	ALUM.	DARK GREY	-	-	-	-	ALUM.	DARK GREY	2	128	RH	SINGLE HOLLOW METAL DOOR
	131	3'-0" (36")	7'-2" (86")	2'-8" (32")	7'-0" (84")	ALUM.	DARK GREY	-	-	-	-	ALUM.	DARK GREY	2	128	LH	SINGLE HOLLOW METAL DOOR
III	123a	3'-4" (40")	7'-2" (86")	3'-0" (36")	7'-0" (84")	ALUM.	DARK GREY	CLEAR	¼"	-	-	ALUM.	DARK GREY	2	122	LH	SINGLE HOLLOW METAL DOOR WITH WINDOW (SECURITY WIRE MESH)
IV	118	4'-0" (48")	7'-2" (86")	3'-8" (44")	7'-0" (84")	ALUM.	DARK GREY	-	-	2'-0" (24")	1'-0" (12")	ALUM.	DARK GREY	2	100	RH	SINGLE HOLLOW METAL DOOR W/ KICKPLATE & LOUVERS
	119	4'-0" (48")	7'-2" (86")	3'-8" (44")	7'-0" (84")	ALUM.	DARK GREY	-	-	2'-0" (24")	1'-0" (12")	ALUM.	DARK GREY	2	100	LH	SINGLE HOLLOW METAL DOOR W/ KICKPLATE & LOUVERS
V	102	3'-0" (36")	7'-2" (86")	2'-8" (32")	7'-0" (84")	ALUM.	DARK GREY	-	-	2'-0" (24")	1'-0" (12")	ALUM.	DARK GREY	3	101	RH	SINGLE HOLLOW METAL DOOR W/ LOUVERS
	103	3'-0" (36")	7'-2" (86")	2'-8" (32")	7'-0" (84")	ALUM.	DARK GREY	-	-	2'-0" (24")	1'-0" (12")	ALUM.	DARK GREY	3	101	LH	SINGLE HOLLOW METAL DOOR W/ LOUVERS
	111	3'-0" (36")	7'-2" (86")	2'-8" (32")	7'-0" (84")	ALUM.	DARK GREY	-	-	2'-0" (24")	1'-0" (12")	ALUM.	DARK GREY	3	110	LH	SINGLE HOLLOW METAL DOOR W/ LOUVERS
	118a	3'-0" (36")	7'-2" (86")	2'-8" (32")	7'-0" (84")	ALUM.	DARK GREY	-	-	2'-0" (24")	1'-0" (12")	ALUM.	DARK GREY	3	118	LHR	SINGLE HOLLOW METAL DOOR W/ LOUVERS
	119a	3'-0" (36")	7'-2" (86")	2'-8" (32")	7'-0" (84")	ALUM.	DARK GREY	-	-	2'-0" (24")	1'-0" (12")	ALUM.	DARK GREY	3	118	RHR	SINGLE HOLLOW METAL DOOR W/ LOUVERS
	120	3'-0" (36")	7'-2" (86")	2'-8" (32")	7'-0" (84")	ALUM.	DARK GREY	-	-	2'-0" (24")	1'-0" (12")	ALUM.	DARK GREY	3	100	LH	SINGLE HOLLOW METAL DOOR W/ LOUVERS
	121a	3'-0" (36")	7'-2" (86")	2'-8" (32")	7'-0" (84")	ALUM.	DARK GREY	-	-	2'-0" (24")	1'-0" (12")	ALUM.	DARK GREY	3	122	RH	SINGLE HOLLOW METAL DOOR W/ LOUVERS
	124	3'-0" (36")	7'-2" (86")	2'-8" (32")	7'-0" (84")	ALUM.	DARK GREY	-	-	2'-0" (24")	1'-0" (12")	ALUM.	DARK GREY	3	122	LH	SINGLE HOLLOW METAL DOOR W/ LOUVERS
	125	3'-0" (36")	7'-2" (86")	2'-8" (32")	7'-0" (84")	ALUM.	DARK GREY	-	-	2'-0" (24")	1'-0" (12")	ALUM.	DARK GREY	3	128	RH	SINGLE HOLLOW METAL DOOR W/ LOUVERS
VI	129	3'-0" (36")	7'-2" (86")	2'-8" (32")	7'-0" (84")	ALUM.	DARK GREY	-	-	-	-	ALUM.	DARK GREY	4	128	LH	SINGLE HOLLOW METAL DOOR W/ KICKPLATE
	130	3'-0" (36")	7'-2" (86")	2'-8" (32")	7'-0" (84")	ALUM.	DARK GREY	-	-	-	-	ALUM.	DARK GREY	4	128	RH	SINGLE HOLLOW METAL DOOR W/ KICKPLATE
VII	123c	3'-0" (36")	7'-0" (84")	3'-0" (36")	7'-0" (84")	ALUM.	DARK GREY	-	-	-	-	WOOD	DARK BROWN	6	123	SLIDING	BARN DOOR
VIII	122	6'-0" (72")	7'-2" (86")	2 x 2'-10" (34")	7'-0" (84")	ALUM.	DARK GREY	-	-	-	-	ALUM.	DARK GREY	5	100	LHR/RHR	DOUBLE HOLLOW METAL DOOR W/ PUSHBAR
IX	128	6'-0" (72")	7'-2" (86")	3'-0" (36")	7'-0" (84")	ALUM.	DARK GREY	-	-	-	-	ALUM.	DARK GREY	-	OUTSIDE	ROLLING	ROLLING SHUTTER DOOR
X	123b	3'-0" (36")	7'-0" (84")	3'-0" (36")	7'-0" (84")	ALUM.	DARK GREY	-	-	-	-	ALUM.	DARK GREY	-	128	RH	SWINGING METAL DOOR W/ KICKPLATE
XI	001	21'-0" (252")	-	2 x 9'-7" (115")	10'-0" (120")	ALUM.	DARK GREY	-	-	-	-	ALUM.	DARK GREY	-	OUTSIDE	RHR / LHR	METAL VEHICULAR GATE
	002	21'-0" (252")	-	2 x 9'-7" (115")	10'-0" (120")	ALUM.	DARK GREY	-	-	-	-	ALUM.	DARK GREY	-	OUTSIDE	RH / LH	METAL VEHICULAR GATE
XII	114e	3'-0" (36")	7'-2" (86")	2'-8" (32")	7'-0" (84")	ALUM.	DARK GREY	-	-	-	-	ALUM.	DARK GREY	-	114	SLIDING	OPERATABLE PARTITION PANELS
XIII	003	7'-9" (93")	-	2 x 3'-1" (37")	10'-0" (120")	ALUM.	DARK GREY	-	-	-	-	ALUM.	DARK GREY	-	OUTSIDE	RHR / LHR	METAL GATE

DOOR HARDWARE SCHEDULE

SET NO.	DOOR TYPE	ITEM	QTY.	BRAND	MODEL NO.
1	I	PIVOT	2	DORMAKABA	UNIVERSAL PT 10
		PIVOT	2	DORMAKABA	UNIVERSAL PT 20
		LOCKSET	2	DORMAKABA	UNIVERSAL US 10
		HANDLE	2	CRL	BM8X24
2	II, III, IV	HINGES	3	MCKINNEY	T 2714 4.5x4.5 26D
		LOCKSET	1	SARGENT & COMPANY	10XG26
		CLOSER	1	SARGENT & COMPANY	1431 ODA EN
		FLOOR STOP	1	TRIMCO HARDWARE	1210 RP 26D
3	V	HINGES	3	MCKINNEY	T 2714 4.5x4.5 26D
		LOCKSET	1	SARGENT & COMPANY	10U65 LL 26D
		CLOSER	1	SARGENT & COMPANY	1431 ODA EN
		FLOOR STOP	1	TRIMCO HARDWARE	1210 RP 26D
4	VI	HINGES	3	MCKINNEY	T 2714 4.5x4.5 26D
		LOCKSET	1	SARGENT & COMPANY	10U65 LL 26D
		CLOSER	1	SARGENT & COMPANY	1431 ODA EN
		FLOOR STOP	1	TRIMCO HARDWARE	1210 RP 26D
		KICKPLATE	1	IVES	8400S12
5	VII	HINGES	3	MCKINNEY	T 2714 4.5x4.5 26D
		LOCKSET	1	SARGENT & COMPANY	8800 SERIES W/ L LEVER
		CLOSER	1	SARGENT & COMPANY	1431 ODA EN
		FLOOR STOP	1	TRIMCO HARDWARE	1210 RP 26D
6	X	DOOR TRACK AND HARDWARE KIT	1	EVERBILT	14445
		DOOR HANDLE	2	WINSOON	GCM6005

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3 5 8 - 0 3 2 - 0 7 2 - 0 1

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SIGNATURE
William Melendez Rivas, Puerto Rico

FILE
Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

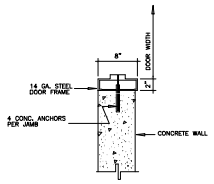
TITLE
DOOR SCHEDULE TABLES

DRAWING No.
A501

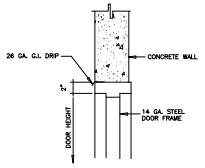
D O O R S C H E D U L E D E T A I L S

DOOR NOTES

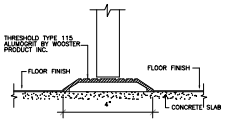
- **ALL DIMENSIONS LISTED IN THE SCHEDULE ARE NOMINAL**, SERVING AS A REFERENCE. THESE DIMENSIONS ARE INTENDED TO GUIDE THE SELECTION AND FABRICATION PROCESS, ENSURING CONSISTENCY WITH DESIGN INTENT AND COMPATIBILITY WITH EXISTING SITE CONDITIONS.
- **UNLESS OTHERWISE SPECIFIED**, DOORS SHALL CONFORM TO **THE MODEL AND MANUFACTURER** DETAILED IN THE SCHEDULE. THE **DIMENSIONS AND SPECIFICATIONS** PROVIDED BY THE **MANUFACTURER**, INCLUDING **HARDWARE**, SHALL TAKE PRECEDENCE OVER ANY PROVIDED DETAILS. THIS INCLUDES ALL **DIMENSIONS RELATED TO THE DOOR AND FRAME**, AS WELL AS ANY **HARDWARE SUPPLIED WITH THE DOOR**.
- ALL HARDWARE DETAILS PROVIDED IN THESE NOTES MUST BE ADHERED TO **UNLESS OTHERWISE SPECIFIED IN THE SCHEDULE.**
- DOOR SWING DIRECTION IS DETERMINED FROM THE **SIDE WHERE THE KEYSET IS LOCATED**.
- **ALL HARDWARE** SHALL BE **STAINLESS STEEL** WITH **A SATIN FINISH**, EXCEPT FOR **CLOSERS**, WHICH SHALL BE SELECTED BY THE ARCHITECT FROM THE MANUFACTURER'S STANDARD COLORS.
- NOMINAL SIZE FOR SWING-TYPE DOORS REFERS TO THE SIZE OF THE DOOR LEAFS, AND FOR OVERHEAD COIL DOORS, IT REFERS TO THE SIZE OF THE WALL OPENING.
- **EXTERIOR DOOR** WILL INCLUDE **STRUCTURAL SILICONE GLAZING SEALANT** TO WITHSTAND LARGE MISSILE IMPACTS, SECURED WITH STAINLESS STEEL SCREWS.
- **EXTERIOR GLAZING** SHALL CONSIST OF **HURRICANE-RESISTANT LAMINATED GLASS UNITS**, MINIMUM **7/16" THICK** WITH A 0.090 PVB INTERLAYER.
- **THE CONTRACTOR** IS RESPONSIBLE FOR **VERIFYING ALL DIMENSIONS** AND PROMPTLY NOTIFYING THE ARCHITECT OF **ANY DISCREPANCIES, OMISSIONS, OR ERRORS BEFORE THE BIDDING DAY**. THIS ENSURES NECESSARY CORRECTIONS AND CLARIFICATIONS ARE ADDRESSED. **ALL DIMENSIONS MUST BE VERIFIED ON-SITE** BY THE CONTRACTOR PRIOR TO FABRICATION.
- **THE CONTRACTOR** MUST ENSURE THAT ALL DOORS HAVE THEIR **NECESSARY COMPONENTS TO FUNCTION** AS INTENDED.
- DOORS MUST BE **SUBMITTED TO THE CUSTOMER** FOR FINAL APPROVAL.
- VERIFY WITH OWNER THE KEYING SYSTEM; **ALL LOCKS REQUIRE A MASTER KEY AND CONSTRUCTION KEY**, WITH 3 KEYS PER LOCK—2 MASTER KEYS AND 10 CONSTRUCTION KEYS—ALL STAMPED "DO NOT DUPLICATE". FINAL KEY LAYOUT TO FOLLOW ARCHITECT'S OR OWNER'S REPRESENTATIVE INSTRUCTIONS. **ALL KEYS MUST MEET SARGENT TYPE 2A REGULATORY REQUIREMENTS**. REQUIREMENTS INCLUDE CONFORMITY TO APPLICABLE FIRE-RATED DOOR AND FRAME CODES, NFPA CHAPTER 5, ANSI A117.1 FOR HARDWARE LOCATIONS AND ADA COMPLIANCE (TITLE III).
- QUANTITIES LISTED IN THE SCHEDULE ARE **FOR REFERENCE ONLY; THE CONTRACTOR IS RESPONSIBLE FOR FINAL COUNTS.** BIDDERS SHOULD VERIFY FLOOR PLANS AND DOOR SCHEDULES FOR ACCURATE QUANTITIES.
- ANY WOODEN COMPONENTS WILL **UNDERGO SANDING, PRIMING, AND PAINTING.**
- EACH DOOR WILL BE EQUIPPED WITH **THREE STAINLESS STEEL HINGES** FEATURING PERMANENTLY LUBRICATED, NON-DETACHABLE BALL BEARINGS, ALONG WITH DOME-STYLE DOOR STOPPERS MOUNTED ON THE WALLS.
- HOLLOW METAL DOORS AND FRAMES WILL BE FABRICATED FROM **GALVANIZED STEEL, GAUGE 14.**
- EXTERIOR DOORS WILL INCLUDE AN **ASTRAGAL AND AN ALUMINUM AND RUBBER DOOR SWEEP.**
- ALUMINUM THRESHOLDS WILL BE **INSTALLED AT ALL EXTERIOR DOORS**, FOLLOWING THE ALUMINUM THRESHOLD DETAIL.
- MARBLE THRESHOLDS WILL BE **INSTALLED AT ALL BATHROOM DOORS**, AS PER THE MARBLE THRESHOLD DETAIL.



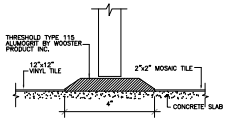
1 INT. DOOR IN CONC. JAMB
SCALE: 1" = 1' - 0"



2 INT. DOOR IN CONC. HEAD
SCALE: 1" = 1' - 0"



3 ALUMINUM TRESHOLD DETAIL
SCALE: 1" = 1' - 0"



4 MARBLE TRESHOLD DETAIL
SCALE: 1" = 1' - 0"

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CERTIFICATION
I, WILLIAM MELENDEZ RIVAS, LIC. 16353, CERTIFY THAT I AM THE PROFESSIONAL WHO [MADE, DESIGNED OR PREPARED] THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS WAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 14-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT IN THE PUERTO RICAN INDUSTRY" AND WITH THE [LAW NO. 319 OF MAY 15, 1938, AS AMENDED; ACT NO. 96 OF JULY 6, 1978, AS AMENDED, AS APPLICABLE] I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY IGNORANCE OR NEGLIGENCE, EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE DCPE.

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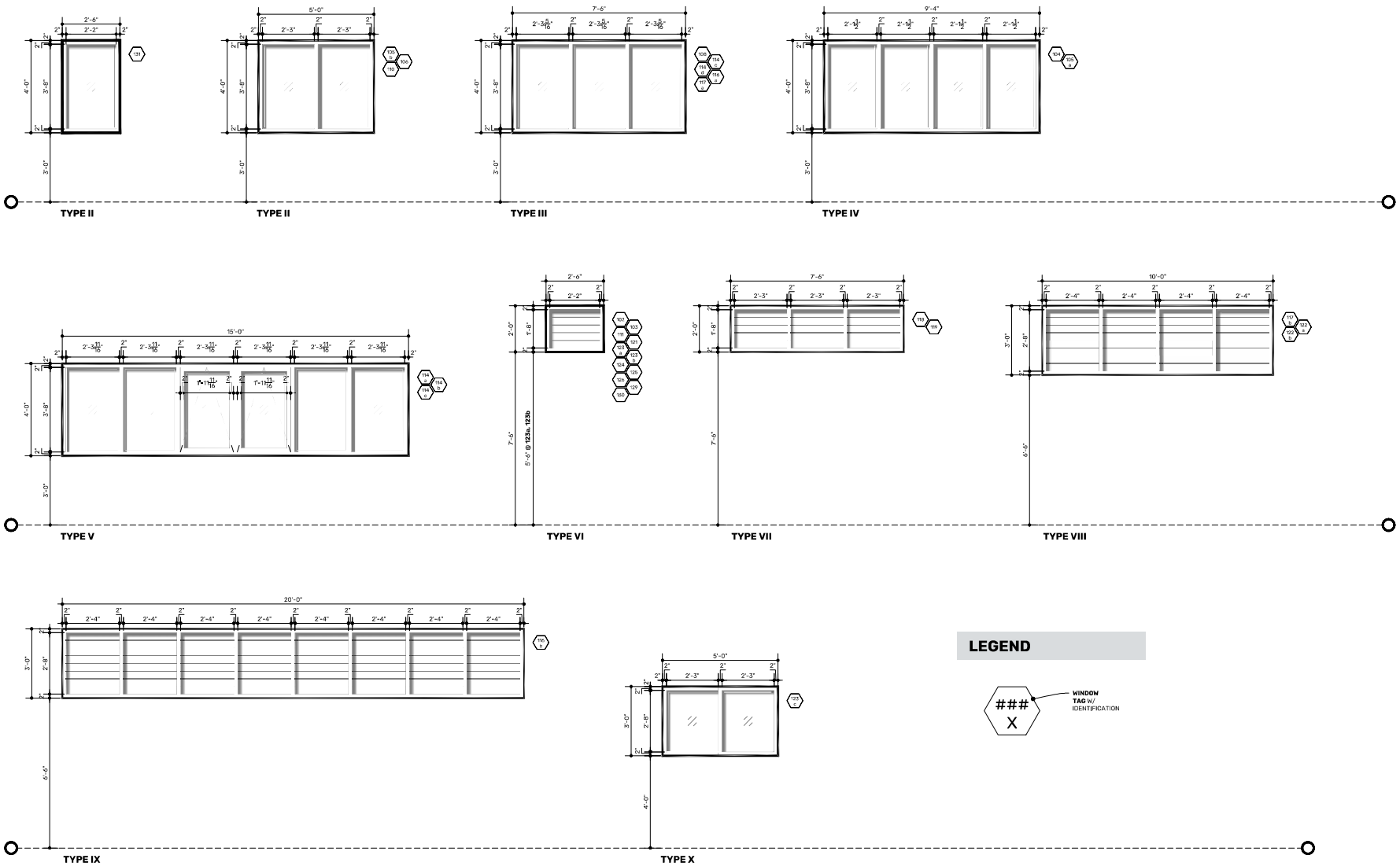
SIGNATURE
William Melendez Rivas
Lic. 16353 P.E.
Puerto Rico

FILE
Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
DOOR SCHEDULE DETAILS

DRAWING No.
A502

W I N D O W S C H E D U L E



LEGEND

PROJECT ADDRESS

PR-CRP-0092 ELDERLY SERVICE CENTER. CALLE FERROCARRIL #11 BO. PUEBLO, LAJAS, P.R. 00667.

GPS LATITUDE/LONGITUDE: 18.04941608, -67.05761236

OWNER

LAJAS MUNICIPALITY

REGISTER No.

3 5 8 - 0 3 2 - 0 7 2 - 0 1

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
--	--	--	--	--

IMPORTANT NOTES TO THE CONTRACTOR:

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE PROCEEDING WITH WORK. IF ANY DISCREPANCIES, ERRORS OR OMISSIONS SHOULD BE ENCOUNTERED ON PLANS, CONTRACTOR SHALL NOTIFY THE ENGINEER BEFORE ANY PART OF THE WORK IS STARTED SO THAT PROPER CORRECTIONS ARE MADE. IF ENGINEER IS NOT NOTIFIED PRIOR TO COMMENCING OF THE WORK, ALL DESIGNS AND DRAWINGS HEREIN AND PRINTS ISSUED BY THE ENGINEER ARE THE PROPERTY OF THE ENGINEER AND SHALL NOT BE REUSED ON ANY OTHER LOCATION EXCEPT THE ONE FOR WHICH THEY EXPRESSLY DESIGNED. IF THESE DRAWINGS OR ANY PART THEREOF IS REPRODUCED WITHOUT THE CONSENT OF THE ENGINEER, THE PERSON WHO IS DOING WILL BE INDEBTED TO THE ENGINEER FOR HIS FULL COMMISSION. CONTRACTOR SHALL NOT USE FOR CONSTRUCTION PURPOSES ANY DRAWINGS THAT WERE ADVANCE TO HIM PRIOR TO THE BEGINNING OF CONSTRUCTION. ALL PLANS BEING USED BY CONTRACTOR SHOULD HAVE A LABEL SAYING "FOR CONSTRUCTION ONLY" SIGNED AND SEALED BY THE ENGINEER.

CERTIFICATION

I, WILLIAM MELENDEZ RIVAS, LIC. 16585, CERTIFY THAT I AM THE PROFESSIONAL WHO [MADE, DESIGNED OR PREPARED] THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 14-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY" AND WITH THE [LAW NO. 319 OF MAY 15, 1938, AS AMENDED; ACT NO. 96 OF JULY 6, 1978, AS AMENDED; AS APPLICABLE]. I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY IGNORANCE OR NEGLIGENCE, EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE OOPE.

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SIGNATURE

William Meléndez Rivas
Puerto Rico

FILE

Dwg Name: INGENIUM GROUP

Drawn by: INGENIUM GROUP

Revised by: ING. WILLIAM MELENDEZ

Plot Scale: AS SHOWN

Progress Print:

TITLE

WINDOW SCHEDULE

DRAWING No.

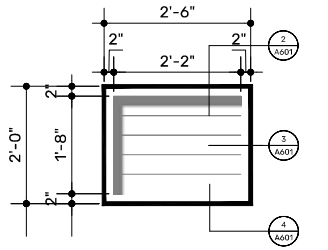
A600

WINDOW SCHEDULE

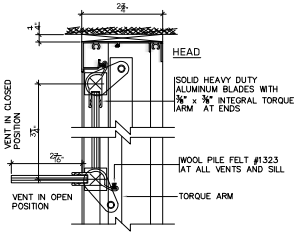
TYPE	ID NUMBER	SIZE			PANEL QTY.	FRAME		GLASS			OPERATION	NOTES
		WIDTH	HEIGHT	HEIGHT A.F.F.		MATERIAL	COLOR	TYPE	THICKNESS	TINT		
I	131	2'-6" (30")	4'-0" (48")	3'-0" (36")	1	ALUM.	DARK GREY	LAMINATED	7/16"	BRONZE	FIXED	JALOUSIE OPERATED WINDOWS
II	105b, 106, 110	5'-0" (60")	4'-0" (48")	3'-0" (36")	2	ALUM.	DARK GREY	LAMINATED	7/16"	BRONZE	FIXED	TINT EQUAL OR SIMILAR TO AIR MASTER BRONZE GLASS TINT
III	108, 114c, 114d 116a, 117a	7'-6" (90")	4'-0" (48")	3'-0" (36")	3	ALUM.	DARK GREY	LAMINATED	7/16"	BRONZE	FIXED	TINT EQUAL OR SIMILAR TO AIR MASTER BRONZE GLASS TINT
IV	104, 105a	9'-4" (112")	4'-0" (48")	3'-0" (36")	4	ALUM.	DARK GREY	LAMINATED	7/16"	BRONZE	FIXED	TINT EQUAL OR SIMILAR TO AIR MASTER BRONZE GLASS TINT
V	114a, 114b, 114c	15'-0" (180")	4'-0" (48")	3'-0" (36")	6	ALUM.	DARK GREY	LAMINATED	7/16"	BRONZE	FIXED /AWNING	TINT EQUAL OR SIMILAR TO AIR MASTER BRONZE GLASS TINT
VI	102, 103, 111, 121, 124, 125, 126, 129, 130	2'-6" (30")	2'-0" (24")	7'-6" (90")	1	ALUM.	DARK GREY	-	-	-	JALOUSIE	JALOUSIE OPERATED WINDOWS
	123a, 123b	2'-6" (30")	2'-0" (24")	5'-6" (66")	1	ALUM.	DARK GREY	-	-	-	JALOUSIE	JALOUSIE OPERATED WINDOWS
VII	118, 119	7'-6" (90")	2'-0" (24")	7'-6" (90")	3	ALUM.	DARK GREY	-	-	-	JALOUSIE	JALOUSIE OPERATED WINDOWS
VIII	117b, 122a, 122b	10'-0" (120")	3'-0" (36")	6'-6" (78")	4	ALUM.	DARK GREY	-	-	-	JALOUSIE	JALOUSIE OPERATED WINDOWS
IX	116b	20'-0" (240")	3'-0" (36")	6'-6" (78")	8	ALUM.	DARK GREY	-	-	-	JALOUSIE	JALOUSIE OPERATED WINDOWS
X	123c	5'-0" (60")	3'-0" (36")	4'-0" (48")	2	ALUM.	DARK GREY	LAMINATED	7/16"	BRONZE	SLIDING	TINT EQUAL OR SIMILAR TO AIR MASTER BRONZE GLASS TINT

WINDOW NOTES

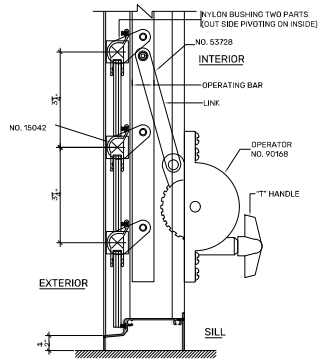
- **WINDOW ASSEMBLIES** WILL INCLUDE **STRUCTURAL SILICONE GLAZING SEALANT** TO WITHSTAND LARGE MISSILE IMPACTS, SECURED WITH STAINLESS STEEL SCREWS.
- **ALL WINDOWS** SHALL BE **SECURITY WINDOWS**, DESIGNED TO WITHSTAND WINDS OF **AT LEAST 180 MPH (IBC 2015 1606.3).**
- **EXTERIOR GLAZING** SHALL CONSIST OF **HURRICANE-RESISTANT LAMINATED GLASS UNITS**, MINIMUM **7/16" THICK** WITH A 0.090 PVB INTERLAYER.
- **THE CONTRACTOR** IS RESPONSIBLE FOR **VERIFYING ALL DIMENSIONS** AND PROMPTLY NOTIFYING THE ARCHITECT OF **ANY DISCREPANCIES, OMISSIONS, OR ERRORS BEFORE THE BIDDING DAY**. THIS ENSURES NECESSARY CORRECTIONS AND CLARIFICATIONS ARE ADDRESSED. **ALL DIMENSIONS MUST BE VERIFIED ON-SITE** BY THE CONTRACTOR PRIOR TO FABRICATION.
- **WINDOWS MUST BE DOUBLE-SEALED**, BOTH IN THE FRAMEWORK AND THE BLADE, TO ENHANCE RESISTANCE AGAINST WATER AND WIND PRESSURE. **ROOMS WITH A/C SYSTEMS** SHALL HAVE **CLEAR PLASTIC SCREENS**; **ROOMS WITHOUT A/C SYSTEMS** SHALL HAVE **GRAY FIBERGLASS MESH SCREENS.**
- **THE CONTRACTOR** MUST ENSURE THAT ALL WINDOWS HAVE THEIR **NECESSARY COMPONENTS TO FUNCTION** AS INTENDED.
- WINDOWS MUST BE **SUBMITTED TO THE CUSTOMER** FOR FINAL APPROVAL.
- QUANTITIES LISTED IN THE SCHEDULE ARE **FOR REFERENCE ONLY; THE CONTRACTOR IS RESPONSIBLE FOR FINAL COUNTS**. BIDDERS SHOULD VERIFY FLOOR PLANS AND DOOR SCHEDULES FOR ACCURATE QUANTITIES.
- ANY **WOODEN** COMPONENTS WILL **UNDERGO SANDING, PRIMING, AND PAINTING.**
- **HOLLOW METAL FRAMES** WILL BE FABRICATED FROM **GALVANIZED STEEL, GAUGE 14.**



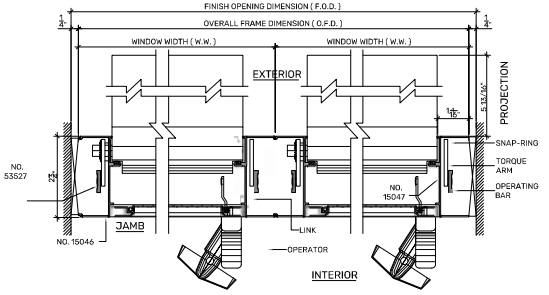
1 JALOUSIE WINDOW ELEV.
SCALE: 1" = 1' - 0"



2 HEAD DETAIL
SCALE: 6" = 1' - 0"



3 SILL DETAIL
SCALE: 6" = 1' - 0"



4 HORIZONTAL DETAIL
SCALE: 6" = 1' - 0"

PROJECT ADDRESS
PR-CRP-0092 ELDERLY SERVICE CENTER, CALLE FERROCARRIL #11 BO. PUEBLO, LAJAS, P.R. 00667.

GPS LATITUDE/LONGITUDE: 18.04941608, -67.05761236

OWNER
LAJAS MUNICIPALITY

REGISTER No.
3 5 8 - 0 3 2 - 0 7 2 - 0 1

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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CERTIFICATION
I, WILLIAM MELENDEZ RIVAS, LIC. 16,583, CERTIFY THAT I AM THE PROFESSIONAL WHO [MADE, DESIGNED OR PREPARED] THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 14-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY" AND WITH THE [LAW NO. 319 OF MAY 15, 1938, AS AMENDED; ACT NO. 96 OF JULY 5, 1978, AS AMENDED; AS APPLICABLE]. I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY IGNORANCE OR NEGLIGENCE, EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE OOPC.

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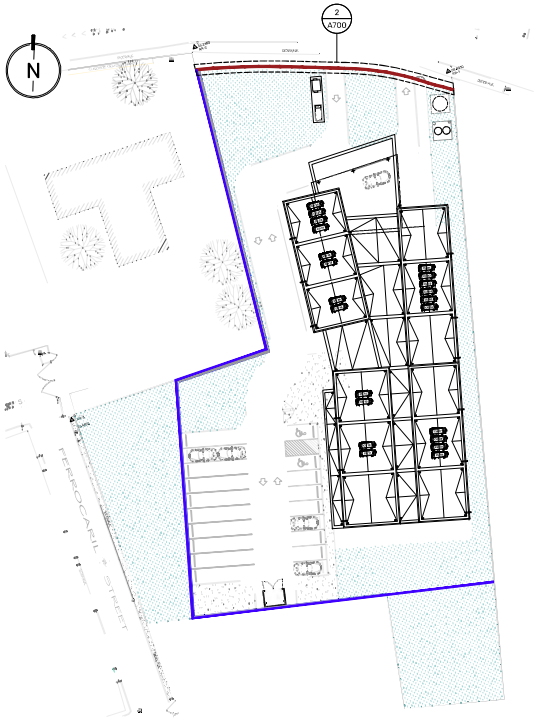
SIGNATURE

FILE
Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
WINDOW SCHEDULE

DRAWING No.
A601

P R O P O S E D P E R I M E T E R F E N C E



1 KEYMAP
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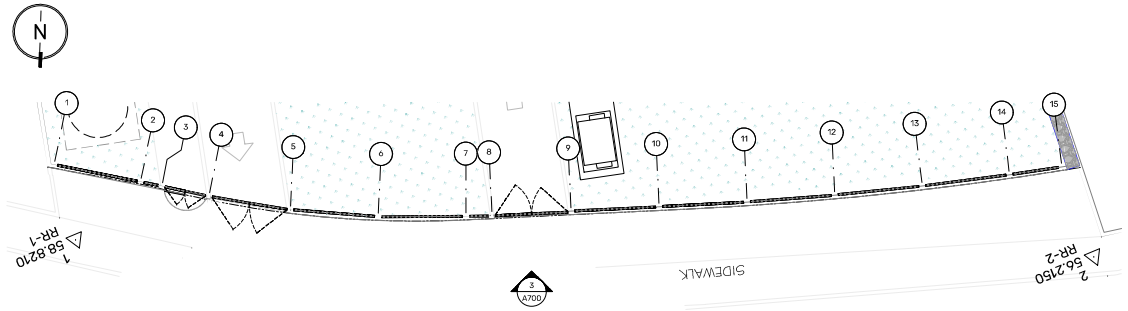
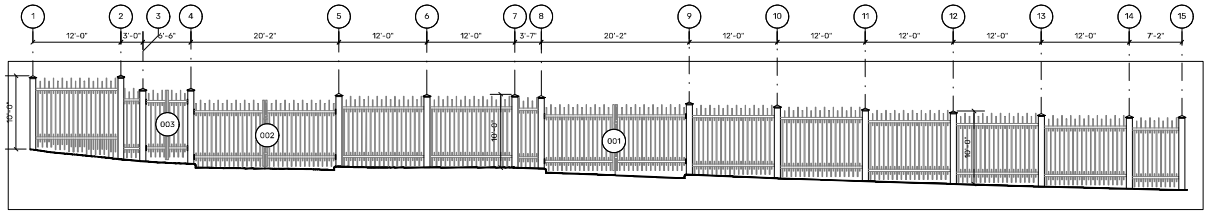


2 PROPOSED ORNAMENTAL FENCE PLAN VIEW
SCALE: 1/8" = 1' - 0"



3 PROPOSED ORNAMENTAL FENCE ELEVATION VIEW
SCALE: 1/8" = 1' - 0"

LEGEND

- **142' LF** PROPOSED FENCE AND GATE.
- **510' LF** CYCLONE FENCE PROPOSED WITH A HEIGHT OF 6'-0".

PROJECT ADDRESS
PR-CRP-0092 ELDERLY SERVICE CENTER, CALLE FERROCARRIL #11 BO. PUEBLO, LAJAS, P.R. 00667.

GPS LATITUDE/LONGITUDE:
18.04941608, -67.05761236

OWNER
LAJAS MUNICIPALITY

REGISTER No.
358-032-072-01

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
--	--	--	--	--

IMPORTANT NOTES TO THE CONTRACTOR:
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CERTIFICATION
I, WILLIAM MELENDEZ RIVAS, LIC. 16383, CERTIFY THAT I AM THE PROFESIONAL WHO (MADE, DESIGNED OR PREPARED) THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS WAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 14-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY" AND WITH THE JLAW NO. 379 OF MAY 15, 1968, AS AMENDED, ACT NO. 96 OF JULY 4, 1976, AS AMENDED, AS APPLICABLE). I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY IGNORANCE OR NEGLIGENCE, EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE OGPE.

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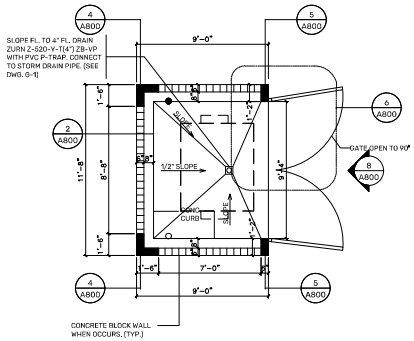
SIGNATURE
William Meléndez Rivas, Ingeniero Civil, Licencia 16383, Puerto Rico

FILE
Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
PROPOSED PERIMETER FENCE

DRAWING No.
A700

M I S C E L L A N E O U S



1 GARBAGE STATION DETAIL
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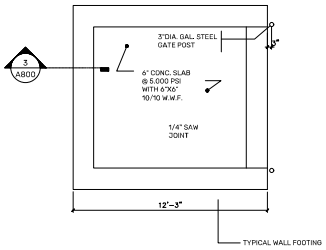

2 FOUNDATION DETAIL
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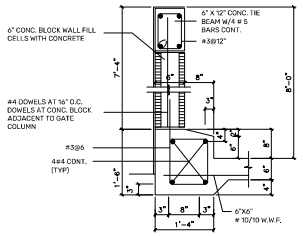
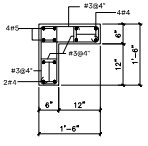


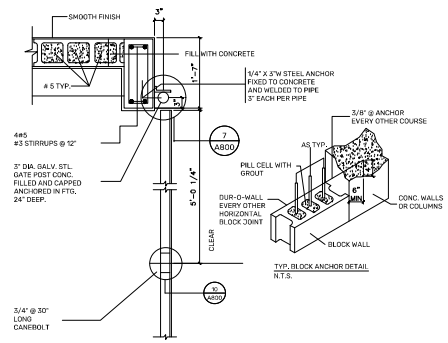
3 SECTION
SCALE: NOT TO SCALE

NOTES:
1. FOR SLAB FINISHED GRADES, SEE GRADING PLAN.
2. ALL STEEL FINISHES ARE TO BE PAINTED
3. THIS CONFIGURATION IS FOR GENERAL INFORMATION ONLY. FOR ACTUAL PROJECT CONFIGURATION SEE SITE PLAN.

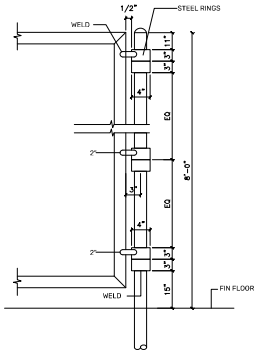


4 COLUMN A
SCALE: NOT TO SCALE

5 COLUMN B
SCALE: NOT TO SCALE



6 PART. GATE PLAN
SCALE: NOT TO SCALE



7 DETAIL
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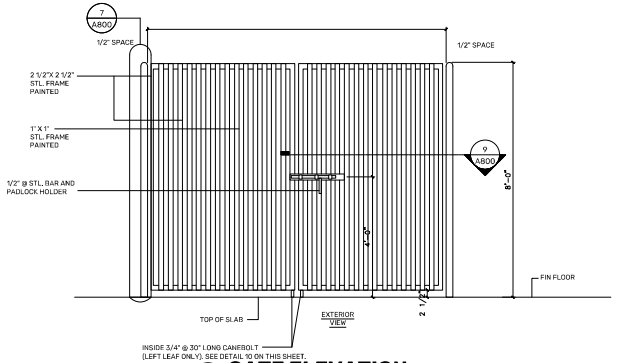
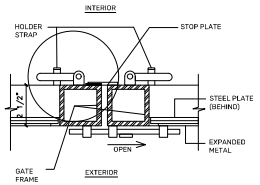
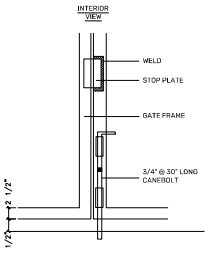


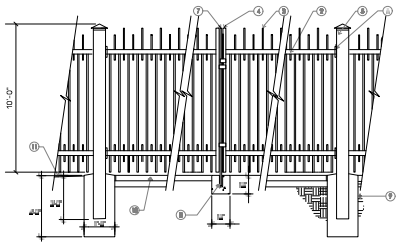
8 GATE ELEVATION
SCALE: NOT TO SCALE



9 DETAIL
SCALE: NOT TO SCALE

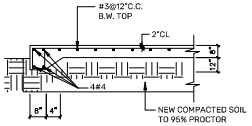


10 CANEBOLT & STOP PLATE DET.
SCALE: NOT TO SCALE



LEGEND
1. 1"x1" TUBULAR STEEL PICKET
2. 1"x3" TUBULAR STEEL RAIL
3. 3/4 "x1" TUBULAR STEEL PICKET
4. 3"x3" TUBULAR STEEL POST
5. 8"x8" TUBULAR STEEL POST,6"x6" TUBULAR STEEL POST
6. HINGE PILLOW OR HINGE BLOCK, SELF ALIGNING, LUBRICATABLE BEARING
7. 1" DROP ROD-SOLID BAR W/LOCK DEVISE & LOCK COVER
8. CONCRETE SECURITY DOWEL SLEEVE
9. CONC. FOOTING
10. ASPHALT PAVING
11. FIN. GRADE

11 ORNAMENTAL FENCE_DETAILS
SCALE: 1/4" = 1' - 0"



12 STRUCTURAL PAD [GENERATOR]
SCALE: NOT TO SCALE

PROJECT ADDRESS
PR-CRP- 0092 ELDERLY SERVICE CENTER, CALLE FERROCARRIL #11 BO. PUEBLO, LAJAS, P.R. 00667.

GPS LATITUDE/LONGITUDE: 18.04941608, -67.05761236

OWNER
LAJAS MUNICIPALITY

REGISTER No.
3 5 8 - 0 3 2 - 0 7 2 - 0 1

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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IMPORTANT NOTES TO THE CONTRACTOR:
CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE PROCEEDING WITH WORK. IF ANY DISCREPANCIES, ERRORS OR OMISSIONS SHOULD BE ENCOUNTERED ON PLANS, CONTRACTOR SHALL NOTIFY THE ENGINEER BEFORE ANY PART OF THE WORK IS STARTED SO THAT PROPER CORRECTIONS ARE MADE. IF ENGINEER IS NOT NOTIFIED PRIOR TO COMMENCING OF THE WORK, ALL DESIGNS AND DRAWINGS REVISIN AND PRINTS ISSUED BY THE ENGINEER ARE THE PROPERTY OF THE ENGINEER AND SHALL NOT BE REUSED ON ANY OTHER LOCATION EXCEPT FOR THE ONE FOR WHICH THEY EXPRESSLY DESIGNED, IF THESE DRAWINGS OR ANY PART THEREOF IS REPRODUCED WITHOUT THE CONSENT OF THE ENGINEER, THE PERSON WHO IS DOING WILL BE INDEBTED TO THE ENGINEER FOR HIS FULL COMMISSION. CONTRACTOR SHALL NOT USE FOR CONSTRUCTION PURPOSES ANY DRAWINGS THAT WERE ADVANCE TO HIM PRIOR TO THE BEGINNING OF CONSTRUCTION. ALL PLANS BEING USED BY CONTRACTOR SHOULD HAVE A LABEL SAYING "FOR CONSTRUCTION ONLY" SIGNED AND SEALED BY THE ENGINEER.

CERTIFICATION
I, WILLIAM MELENDEZ RIVAS, LIC. 16585, CERTIFY THAT I AM THE PROFESSIONAL WHO MADE, DESIGNED OR PREPARED THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 14-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY" AND WITH THE [LAW NO. 319 OF MAY 15, 1938, AS AMENDED; ACT NO. 96 OF JULY 5, 1978, AS AMENDED; AS APPLICABLE]. I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY IGNORANCE OR NEGLIGENCE EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE OGPE.

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SIGNATURE
William Melendez Rivas
Puerto Rico

FILE
Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
MISCELLANEOUS

DRAWING No.
A800

FINISHES SCHEDULE - CRITERIA

FINISHES SCHEDULE

ROOM	DESCRIPTION	FLOOR	WALLS	W/BASE	CEILING
100	LOBBY	FF-0	WF-0	WB-0	CF-0
101	ADMINISTRATIVE RECEPTION	FF-0	WF-0	WB-0	CF-0
102	RESTROOM 1	FF-1	WF-1	WB-0	CF-0
103	RESTROOM 2	FF-1	WF-1	WB-0	CF-0
104	OFFICE_1	FF-0	WF-0	WB-0	CF-0
105	OFFICE_2	FF-0	WF-0	WB-0	CF-0
106	OFFICE_3	FF-0	WF-0	WB-0	CF-0
107	OFFICE_4	FF-0	WF-0	WB-0	CF-0
108	CONFERENCE ROOM	FF-0	WF-0	WB-0	CF-0
109	NURSING RECEPTION	FF-0	WF-0	WB-0	CF-0
110	NURSING AREA	FF-0	WF-0	WB-0	CF-0
111	NURSING BATHROOM	FF-1	WF-1	WB-0	CF-0
112	NURSING STORAGE	FF-0	WF-0	WB-0	CF-0
113	NURSING OFFICE	FF-0	WF-0	WB-0	CF-0
114	ACTIVITY AREA	FF-0	WF-0	WB-0	CF-0
115	TERRACE	FF-0	WF-0	WB-0	CF-0
116	TV ROOM AREA	FF-0	WF-0	WB-0	CF-0
117	ACTIVITIES WORKSHOP	FF-0	WF-0	WB-0	CF-0
118	WOMEN'S BATHROOM	FF-1	WF-1	WB-0	CF-0
119	MEN'S BATHROOM	FF-1	WF-1	WB-0	CF-0
120	LAUNDRY	FF-0	WF-0	WB-0	CF-0
121	STORAGE	FF-0	WF-0	WB-0	CF-0
121a	ELECTRIC ROOM	FF-0	WF-0	WB-0	CF-0
122	LUNCH AREA	FF-0	WF-0	WB-0	CF-0
123	KITCHEN	FF-0	WF-0	WB-0	CF-1
124	UTILITY ROOM	FF-1	WF-0	WB-0	CF-0
125	KITCHEN BATHROOM	FF-1	WF-1	WB-0	CF-0
126	DISPOSABLE STORAGE	FF-0	WF-0	WB-0	CF-0
127	WALK IN FREEZER	FF-0	WF-0	WB-0	CF-0
128	LAVATORY	FF-0	WF-0	WB-0	CF-1
129	CHEMICAL STORAGE	FF-0	WF-0	WB-0	CF-0
130	DRY STORAGE	FF-0	WF-0	WB-0	CF-0
131	KITCHEN OFFICE	FF-0	WF-0	WB-0	CF-0

EXTERIOR FINISHES SCHEDULE

ROOM	DESCRIPTION	FLOOR	WALLS
1	FRONT ELEVATION	FF-0	WF-0/WF-2
2	REAR ELEVATION	FF-0	WF-0
3	RIGHT ELEVATION	FF-0	WF-0
4	LEFT ELEVATION	FF-0	WF-0
5	GAZEBO AREA	FF-2	-

IMPORTANT NOTE:

- ANY SPECIFIED FIXTURES OR FURNITURE MUST BE EQUAL OR SIMILAR AND SHOULDN'T BE BRAND SPECIFIC. ANY SPECIFIED BRAND IS ONLY FOR CONTRACTOR'S CONVENIENCE AND SHOULDN'T BE INTERPRETED AS THE ONLY CHOICES. CONTRACTOR MUST SUBMIT SHOP DRAWINGS OF FIXTURES AND/OR FURNITURE TO BE USED.

WALL COMPOSITION SCHEDULE

WALL TYPE	DESCRIPTION
TYPE I	REINFORCED CONCRETE [STRUCTURAL PURPOSE] WALL/COLUMN. FINISH MAY BE EXPOSED OR ELSE. CEMENT PLASTERED INDICATED ON FINISH SCHEDULE ON THIS SHEET. REFER TO SECTIONS AND ELEVATIONS FOR MORE INFORMATION.
TYPE II	PROPOSED 6" REINFORCED CONCRETE MASONRY WALL WITH DUR-O WALL IN EACH COURSE AND VERTICAL REINFORCEMENT BARS #3 @ 16" WITHOUT SPLICE FOR THE FIRST TWO COURSES. CONSIDER CONCRETE REINFORCEMENT COLUMNS AT ALL CONNECTING CORNERS, ENDS, AND AROUND ALL OPENINGS. FOR MORE DETAILS SEE STRUCTURAL SHEETS. FINISHED IN CEMENT PLASTER AND PAINT AS INDICATED IN THE DRAWINGS.
TYPE III	PROPOSED 4" NON-BEARING DRYWALL PARTITION [FOR INTERIOR PURPUSE]. EXTENDS THROUGH CEILING PLANE UP TO BUILDING STRUCTURE. SINGLE SHEETS OF 5/8" THICK TYPE X GYP.BD PANELS FIXED TO 3-1/2" WIDE LIGHTWEIGHT GALV. SHEETMETAL STUDS @ 16" C.C. FIXED TO FLOOR TRACK AND TOP TRACK ONTO STRUCTURAL SLAB.
TYPE IV	PROPOSED 8" REINFORCED CONCRETE MASONRY WALL WITH DUR-O WALL IN EACH COURSE AND VERTICAL REINFORCEMENT BARS #3 @ 16" WITHOUT SPLICE FOR THE FIRST TWO COURSES. CONSIDER CONCRETE REINFORCEMENT COLUMNS AT ALL CONNECTING CORNERS, ENDS, AND AROUND ALL OPENINGS. FOR MORE DETAILS SEE STRUCTURAL SHEETS. FINISHED IN CEMENT PLASTER AND PAINT AS INDICATED IN THE DRAWINGS.

FINISHES CRITERIA

FLOOR FINISHES

FF-0: PROPOSED POLISHED CONCRETE HARDENER. COLOR GRAY.

FF-1: PROPOSED 15"X30" ROCK SPRINGS PEARL PORCELAIN TILE (WITH ANTISLIP SURFACE) IN BATHROOMS. INSTALL WITH MINIMUM JOINT TO COVER WITH GRAY EPOXY GROUT. TILES WILL BE PROVIDED AND INSTALLED BY CONTRACTOR.

FF-2: PROPOSED 12 IN. X 24 IN. CORSO ITALIA, ALPE GRAPHITE. GRAY MATTE PORCELAIN STONE LOOK FOR EXTERIOR FLOOR.

WALL FINISHES

WF-0: PROPOSED INTERIOR CONCRETE CEMENT WALLS. FINISH WITH 1/4" THICK PORTLAND CEMENT PLASTER OVER PROCESED CONCRETE. [PRIME WALL WITH (THORO-BOND) BONDING AGENT. ONCE THE PLASTER IS DRY AND HARD, APPLY TWO-COATS OF PREMIUM LATEX-BASED INTERIOR PAINT OVER PRIMER [PRIMER AND PAINT WILL BE SELECTED BY OWNER AND APPLIED BY GENERAL CONTRACTOR].

WF-1: PROPOSED 15"X30" ROCK SPRINGS PEARL PORCELAIN TILE IN BATHROOMS. INSTALL WITH MINIMUM JOINT TO COVER WITH GRAY EPOXY GROUT. TILES WILL BE PROVIDED AND INSTALLED BY CONTRACTOR.

WF-2: PROPOSED TEXTURE ON WALL. 42 IN. X 12 IN. STACKED STONE DESERT SUNRISE. COMPOSITE FAUX STONE SIDING PANEL. INSTALL WITH MINIMUM JOINT TO COVER WITH GRAY EPOXY GROUT.

WALL BASE

WB-0: PROPOSED WALL BASE'S WILL BE ATTAINED BY CUTTING THE SAME (FF-0, FF-1, FF-3) FLOOR MATERIAL TO PRODUCE 4 IN HEIGHT - WALL BASE STRIPS.

CEILING FINISHES

CF-0: 1/4" - THICK PORTLAND CEMENT PLASTER APPLIED DIRECTLY ON EXPOSED SURFACE OF CONCRETE SLAB. APPLY (THORO-BOND) BONDING AGENT PRIOR TO APPLY FINISH. ONCE THE PLASTER IS DRY AND HARD, APPLY TWO-COATS OF PREMIUM LATEX-BASED INTERIOR PAINT OVER PRIMER BLACK COLOR.

CF-1: NEW PROPOSED 24" X 24" ACOUSTICAL TILE SUSPENDED CEILING. COMPLETE WITH SUPPORTING FRAME ACOUSTIC TILE MUST BE EQUAL TO ARMSTRONG TUNDRA #304/ 9/ 16 WHITE FROM CONTRACTOR'S FURNISHED CATALOG OF READILY AVAILABLE MODELS. ALL TILES SHALL BE. SAG-RESISTANT AND FIRE-RATED.

FINISHES NOTES

1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON SITE
2. THE AREA MARKED WITH A DIAGONAL LINE INDICATES THAT IT DOES NOT REQUIRE SUBSTANTIAL INTERVENTION. IT ONLY REQUIRES RESURFACING AND PAINTING WITH PRIMER AND 2 COATS OF PAINT ON WALLS AND CEILING. THE EXISTING FLOOR SHOULD BE POWER WASHED AND POLISHED.
3. ANY INSTALLATION, PRODUCT AND MATERIAL SPECIFIED UNDER THIS PROJECT AND IDENTIFIED BY A TRADENAME OR TRADEMARK IS INTENDED ONLY IN ORDER TO ESTABLISH THE TYPE AND QUALITY OF THE INSTALLATION. PRODUCT AND MATERIAL CONTRACTOR MAY SUBMIT SUBSTITUTION FOR APPROVAL WHENEVER SUCH INSTALLATION, PRODUCT AND MATERIALS COMPLY WITH TECHNICAL SPECIFICATIONS.
4. ALL ARCHITECTURAL FINISHES AND COLORS SHALL BE APPROVED BY THE ARCHITECT. WHEN REQUIRED IN THE CONTRACT DOCUMENTS, AND WITH PRIOR NOTICE TO THE CONTRACTOR, ANY OF THE ARCHITECTS APPROVAL MAY BE REFEREED TO THE OWNER FOR ADDITIONAL APPROVAL. TIE USED FOR ALL THESE APPROVALS SHALL BE TAKEN ACCOUNTS FOR THE TOTAL CONSTRUCTION OF THE PROJECT.
5. ALL CONCRETE BLOCK SURFACE SHALL BE FINISHED WITH CEMENT PLASTER $\frac{3}{4}$' MINIMUM
6. ALL CONCRETE BLOCK OR GYPSUM BOARD WALL SHALL BE BUILT UP TO 4" ABOVE CEILING MINIMUM, UNLESS OTHERWISE INDICATED.
7. ALL GALVANIZED STEEL GUARDS FALS AND HANCRAWS SHALL BE PRIMED AND PAINTED; COLOR IN SELECTED BY ARCHITECT.
8. THE CONTRACTOR MUST PROVIDE EXPANSION JOINTS FOR THE FLOOR. SUBMIT MODEL TO ARCHITECT FOR APPROVAL.

NOTES FOR PAINTING

1. THE CONTRACTOR SHALL PAINT ALL INTERIOR AND EXTERIOR WALLS WITH THREE COATS OF PAINT OR ACCEPTED SUBSTITUTE SUCH AS TWO COATS OF PAINT WITH PRIMER, COLOR SHALL BE WHITE UNLESS OTHERWISE SPECIFIED OR SELECTED BY THE ARCHITECT.
2. CONTRACTOR SHALL PROVIDE A 5 YEAR WARRANT ON ALL PAINT .
3. THE THREE COATS SYSTEM CONSISTS OF A SEALER PRIMER COAT AND TWO FINISH COATS.
   - 3.1. PRIMER EQUAL OR BETTER THAN INTERIOR LATEX PRIMER PREPRITE 400 B28W400 BY SHERWIN WILLIAMS.
   - 3.2. ACRYLIC LATEX MATTE FINISH EQUAL OR BETTER THAN A-100 SERIES BY SHERWIN WILLIAMS FOR THE EXTERIOR.
   - 3.3. ACRYLIC LATEX EGG SHELL FINISH EQUAL OR BETTER THAN PROMAR-400 SERIES BY SHERWIN WILLIAMS FOR THE INTERIOR.
   - 3.4. WATERBASED EPOXY COATING BY SHERWIN WILLIAMS FOR THE BATHROOMS.
4. PAINT SHALL BE EQUAL OR SIMILAR APPROVED TO PRODUCT SPECIFIED BY ARCHITECT AND IN COMPLIANCE WITH PAINT TECHNICAL SPECIFICATION SECTION
5. ALL EXTERIOR WALL SURFACE SHALL BE PAINT AND RETOUCHED AS NECESSARY, AFTER COMPLETION OF CONSTRUCTION WORK
6. CONTRACTOR SHALL REPAIR DAMAGED CONCRETE BEFORE PAINTING.
7. DOOR PAINT SYSTEM CONSISTS OF ONE COAT OF PRIMER AND TWO FINISH COATS.
   - 7.1. PRIMER EQUAL OR BETTER THAN ALL SURFACE ENAMEL OIL PRIMER A11 SERIES BY SHERWIN WILLIAMS.
   - 7.2. ALL SURFACE ENAMEL OIL PAINT A11 SERIES BY SHERWIN WILLIAMS.
8. CONTRACTOR SHALL PROVIDE AND INSTALL IDENTIFICATION SIGNS FOR ALL SPACES.

WATER PROOFING

1. WARRANTY FOR THE WATERPROOFING TREATMENT SHALL BE A 5 YEARS IN ADDITION TO REGULAR MANUFACTURER AND INSTALLER WARRANTIES.
2. ALL DEMOLITION AND CONSTRUCTION WORK SHALL BE COORDINATED WITH THE OWNER TO PREVENT POSSIBLE CONFLICTS WITH THE OWNER'S NORMAL WORKING CONDITIONS.
3. THE CONTRACTOR SHALL APPLY A SYSTEM EQUAL OR SUPERIOR TO THE ONE SPECIFIED. PROPOSED PRODUCTS SHALL HAVE EQUAL OR BETTER CHARACTERISTICS THAN THE ONE SPECIFIED. PRODUCTS WITH CHARACTERISTICS LESS THAN THE ONE SPECIFIED WILL NOT BE ACCEPTED FOR THIS PROJECT.
4. CONTRACTOR SHALL PROVIDE, USE, AND/OR INSTALL ANY COMPONENT OR PRODUCT FOR THE REQUIRED SYSTEM, NOT SPECIFIED BUT NECESSARY FOR THE PROPER INSTALLATION OF THE WATERPROOFING SYSTEM.
5. WORK SHALL BE VERIFY AND CERTIFIED BY A QUALIFIED REPRESENTATIVE FROM THE MANUFACTURER OF THE WATERPROOFING SYSTEM.
6. CONTRACTOR SHALL VISIT THE PROJECT SITE TO BECOME FAMILIAR WITH THE REQUIRED WORK AND SHALL VERIFY ACTUAL DIMENSIONS AND CONDITIONS TO CONSIDER ANY DIFFICULTIES AND COST IN BASE BID.
7. WORK SHALL BE PERFORMED BY PERSONNEL SKILLED IN THIS TRADE AND WITH THE BEST PRACTICE OF THE TRADE.

ROOF SCOPE OF WORK

1. THE WATERPROOFING SYSTEM CONSISTS OF:
   A) PRESSURE WASH CLEAN ALL ROOF AREAS.
   B)INSTALL ONE PLY WHITE ALUMINUM SBS MODIFIED BITUMEN TOP MEMBRANE SIMILAR TO GLASDAN AL80 PEARL WHITE.
2. INSTALL CAP FLASHINGS AT ALL PARAPETS FOLLOWING MANUFACTURER,S RECOMENDATIONS SEE TYP. DETAIL ON SHEET A103
3. INSTALL CHEM CURBS TO ANY TUBING THAT PASSES THROUGH THE WATERPROOFING SYSTEM.

PROJECT ADDRESS
PR-CRP-0092 ELDERLY SERVICE CENTER. CALLE FERROCARRIL #11 BO. PUEBLO, LAJAS, P.R. 00667.

GPS LATITUDE/LONGITUDE:
18.04941608, -67.05761236

OWNER
LAJAS MUNICIPALITY

REGISTER No.
358-032-072-01

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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IMPORTANT NOTES TO THE CONTRACTOR:
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CERTIFICATION
I, WILLIAM MELENDEZ RIVAS, LIC. 16383, CERTIFY THAT I AM THE PROFESSIONAL WHO TRACK, DESIGNED OR PREPARED THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 9-1936, AS AMENDED, KNOWN AS THE LAW REGULATING THE PRACTICE OF ENGINEERY AND WITH THE LAW NO. 179 OF MAY 16, 1938, AS AMENDED; ACT NO. 76 OF JULY 6, 1978, AS AMENDED, AS APPLICABLE.) I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY IGNORANCE OF NEGLIGENCE EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE DGPE.

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SIGNATURE
William Meléndez Rivas
Ingeniero
Licencia Núm. 16383
Puerto Rico

FILE
Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
FINISHES SCHEDULE

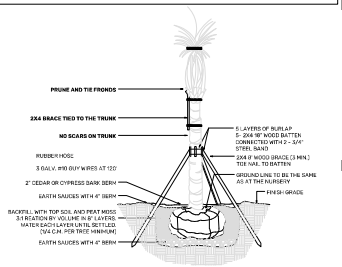
DRAWING No.
A900

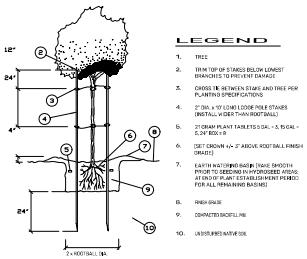
PAGE: 44/71

P R O P O S E D L A N D S C A P E P L A N

GENERAL SITE NOTES FOR LANDSCAPE CONSTRUCTION

1. ALL BASE INFORMATION PROVIDED BY OWNERS AND VERIFY ALL ARCHITECTS. CONTRACTOR SHALL FIELD BASE DESTINATION FIELDS BEFORE BEGINNING WORK.
2. CONTRACTOR SHALL NOTIFY ALL PERTINENT UTILITY COMPANIES 48 HOURS PRIOR TO DIGGING FOR VERIFICATION OF ALL UNDERGROUND UTILITIES. PLANS ARE PREPARED ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARING THESE DOCUMENTS.
3. THE CONTRACTOR SHALL BECOME COMPLETELY FAMILIAR WITH EXISTING SITE CONDITIONS PRIOR TO BEGINNING INSTALLATION. ALL EXISTING IMPROVEMENTS AND ELEMENTS SHALL BE PROTECTED FROM DAMAGE UNLESS OTHERWISE NOTED. ALL DAMAGED ITEMS SHALL BE REPLACED OR REPAIRED AT NO ADDITIONAL COST TO THE OWNER.
4. UNLESS OTHERWISE NOTED, THE LIMITS OF CONSTRUCTION ARE THE EXISTING LIMITS NOTED ON THE PLANS.
5. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DRAWINGS AND ACTUAL FIELD CONDITIONS TO THE OWNERS REPRESENTATIVE.
6. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH RELATED CONTRACTORS AND WITH THE GENERAL CONTRACTOR OF THE PROJECT. REPORT NOTE DISCREPANCIES WITH THE WORK BY PERFORMANCE OF OTHERS BEFORE THE CONTRACTOR'S OWN WORK.
7. CONTRACTOR SHALL LAYOUT ALL CONSTRUCTION LINES AND VERIFY THE LAYOUT AND ALL PLANT AND MATERIAL QUANTITIES WITH THE OWNER'S REPRESENTATIVE AND/OR LANDSCAPE ARCHITECT PRIOR TO THE BEGINNING OF CONSTRUCTION.
8. REPORT ALL EXISTING DAMAGE OF EXISTING SITE FEATURES AND ELEMENTS TO THE OWNERS PRIOR TO BEGINNING CONSTRUCTION.
9. CONTRACTOR SHALL PROVIDE ALL NECESSARY SAFETY MEASURES FOR EMPLOYEES AND PUBLIC AT ALL TIMES DURING THE CONSTRUCTION PROCESS AS PER APPLICABLE LOCAL CODES AND ACCEPTED LOCAL PRACTICES.
10. CONTRACTOR SHALL COORDINATE ACCESS AND STAGING AREA WITH THE OWNER.
11. ALL EXISTING PLANT MATERIAL TO REMAIN SHALL BE PROTECTED FROM DAMAGE THROUGHOUT THE NEW CONSTRUCTION SCHEDULE. ALL EXISTING PLANT MATERIAL THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER WITH THE SAME SIZE, QUALITY, AND TYPE OF PLANT MATERIAL THAT WAS DAMAGED.
12. REFER TO PLANTING DETAILS FOR PLANTING SPECIFICATIONS, DETAILS AND NOTES.
13. REFER TO PLANTING SCHEDULES OF THE DRAWINGS' AREAS FOR PLANTING WITH SIZES, QUANTITIES, AND VARIETIES REQUIRED FOR THE CONSTRUCTION OF THE LANDSCAPE. SCHEDULE SHOWN ON DRAWINGS. ANY CHANGES OR SUBSTITUTIONS NEEDED SHALL BE CLEARED WITH LANDSCAPE ARCHITECT AND OWNER'S REPRESENTATIVE.
14. CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY CLEAN UP OF THE WORKING AREAS AND DAILY REMOVAL OF DEBRIS TO AND OFF SITE LOCATION.





TREE _PLANTING DETAIL

LEGEND

1. TREE
2. TRIM TOP OF STAKES BELOW LOWEST BRANCHES TO PREVENT DAMAGE
3. CROSS TIE BETWEEN STAKE AND TREE PER PLANTING SPECIFICATIONS
4. 2" DIA. x 10' LONG LODGE POLE STAKES (INSTALL WIDER THAN ROOTBALL)
5. 21 GRAM PLANT TABLETS 5 GAL. = 3, 15 GAL. = 5, 24" BOX = 8
6. SET CROWN +/- 3" ABOVE ROOTBALL FINISH GRADE)
7. EARTH WATERING BASIN (TAKE SMOOTH PRIOR TO SEEDING IN HYDROSEED AREAS, AT ON SITE PLANT ESTABLISHMENT PERIOD FOR ALL REMAINING BASINS)
8. FINISH GRADE
9. DEHYDRATED BACKFILL MIX
10. UNDISTURBED NATIVE SOIL

VEGETATION CODE 0.0

AMOUNT OF VEGETATION 0

PROJECT ADDRESS

PR-CRP-0092 ELDERLY SERVICE CENTER, CALLE FERROCARRIL #11 BO. PUEBLO, LAJAS, P.R. 00667.

GPS LATITUDE/LONGITUDE: 18.04941608, -67.05761236

OWNER

LAJAS MUNICIPALITY

REGISTER No.

3 5 8 - 0 3 2 - 0 7 2 - 0 1

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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IMPORTANT NOTES TO THE CONTRACTOR:

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE PROCEEDING WITH WORK. IF ANY DISCREPANCIES, ERRORS OR OMISSIONS SHOULD BE ENCOUNTERED ON PLANS, CONTRACTOR SHALL NOTIFY THE ENGINEER BEFORE ANY PART OF THE WORK IS STARTED SO THAT PROPER CORRECTIONS ARE MADE. IF ENGINEER IS NOT NOTIFIED PRIOR TO COMMENCING OF THE WORK, ALL DESIGNS AND DRAWINGS HEREIN AND PRINTS ISSUED BY THE ENGINEER ARE THE PROPERTY OF THE ENGINEER AND SHALL NOT BE REUSED ON ANY OTHER LOCATION EXCEPT THE ONE FOR WHICH THEY EXPRESSLY DESIGNED. IF THESE DRAWINGS OR ANY PART THEREOF IS REPRODUCED WITHOUT THE CONSENT OF THE ENGINEER, THE PERSON WHO IS DOING WILL BE SUBJECTED TO THE ENGINEER FOR HIS FULL COMMISSION. CONTRACTOR SHALL NOT USE FOR CONSTRUCTION PURPOSES ANY DRAWINGS THAT WERE ADVANCE TO HIM PRIOR TO THE BEGINNING OF CONSTRUCTION. ALL PLANS BEING USED BY CONTRACTOR SHOULD HAVE A LABEL SAYING "FOR CONSTRUCTION ONLY" SIGNED AND SEALED BY THE ENGINEER.

CERTIFICATION

I, WILLIAM MELENDEZ RIVAS, LIC. 16383, CERTIFY THAT I AM THE PROFESSIONAL WHO IMADE, DESIGNED OR PREPARED THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 14-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY" AND WITH THE [LAW NO. 319 OF MAY 15, 1938, AS AMENDED; ACT NO. 96 OF JULY 5, 1978, AS AMENDED, AS APPLICABLE]. I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY IGNORANCE OR NEGLIGENCE EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE COPE.

INGENIUM PROFESSIONAL GROUP
654 Ave. Munoz Rivera • Suite 1505
San Juan, PR 00918
Tel. (787) 999-5892 / 5891
email: info@ingeniumpr.com

SIGNATURE

William Melendez Rivas, Puerto Rico

FILE

Dwg Name: INGENIUM GROUP

Drawn by: INGENIUM GROUP

Revised by: ING. WILLIAM MELENDEZ

Plot Scale: AS SHOWN

Progress Print:

TITLE

PROPOSED LANDSCAPE PLAN

DRAWING No.

LA100

PAGE: 45 /71

1 PROPOSED LANDSCAPE PLAN

SCALE: 1/16" = 1'-0"

1.0 — COMMON NAME: GREEN BUTTONWOOD; SCIENTIFIC NAME: CONOCARPUS ERECTUS; FORM: PALM; SIZE: 10'-40' FEET IN HEIGHT; LIGHT: GROWS IN FULL SUN; QUANTITY: (3)

2.0 — COMMON NAME: FOX TAIL AGAVE; SCIENTIFIC NAME: AGAVE ATTENUATA; FORM: AGAVE; SIZE: 4'-5' FEET IN HEIGHT; LIGHT: FULL SUN; QUANTITY: (9)

3.0 — COMMON NAME: PALMA DE SOMBRERO; SCIENTIFIC NAME: SABAL CAUSIARUM; FORM: PALM; SIZE: 15'-20' FEET IN HEIGHT; LIGHT: FULL SUN; QUANTITY: (2)

4.0 — COMMON NAME: ROBELLINI; SCIENTIFIC NAME: PHOENIX ROBELLINI; FORM: PALM; SIZE: 6'-10' FEET IN HEIGHT; LIGHT: FULL SUN AND PARTIAL SUN; QUANTITY: (9)

5.0 — COMMON NAME: SAGO PALM; SCIENTIFIC NAME: CYCAS REVOLUTAS; FORM: PALM; SIZE: 4' FEET IN HEIGHT; LIGHT: FULL SUN, PART SUN; QUANTITY: (7)

6.0 — COMMON NAME: PALMA ARECA; SCIENTIFIC NAME: CHYSALIDO CAYPUS; FORM: PALM; SIZE: 15'-20' FEET IN HEIGHT; LIGHT: FULL SUN TO SEMI SHADE; QUANTITY: (5)

7.0 — COMMON NAME: PALMA DE CARTON; SCIENTIFIC NAME: ZAMIA FURFURACEA; FORM: CYCAD; SIZE: 3'-4' FEET IN HEIGHT; LIGHT: FULL SUN TO SEMI-SHADE; QUANTITY: (19)

8.0 — COMMON NAME: CLUSIA ROSEA; SCIENTIFIC NAME: CLUSIA ROSEA 'NANA'; FORM: BUSH; SIZE: 5'-12' FEET IN HEIGHT; LIGHT: FULL SUN; QUANTITY: (95)

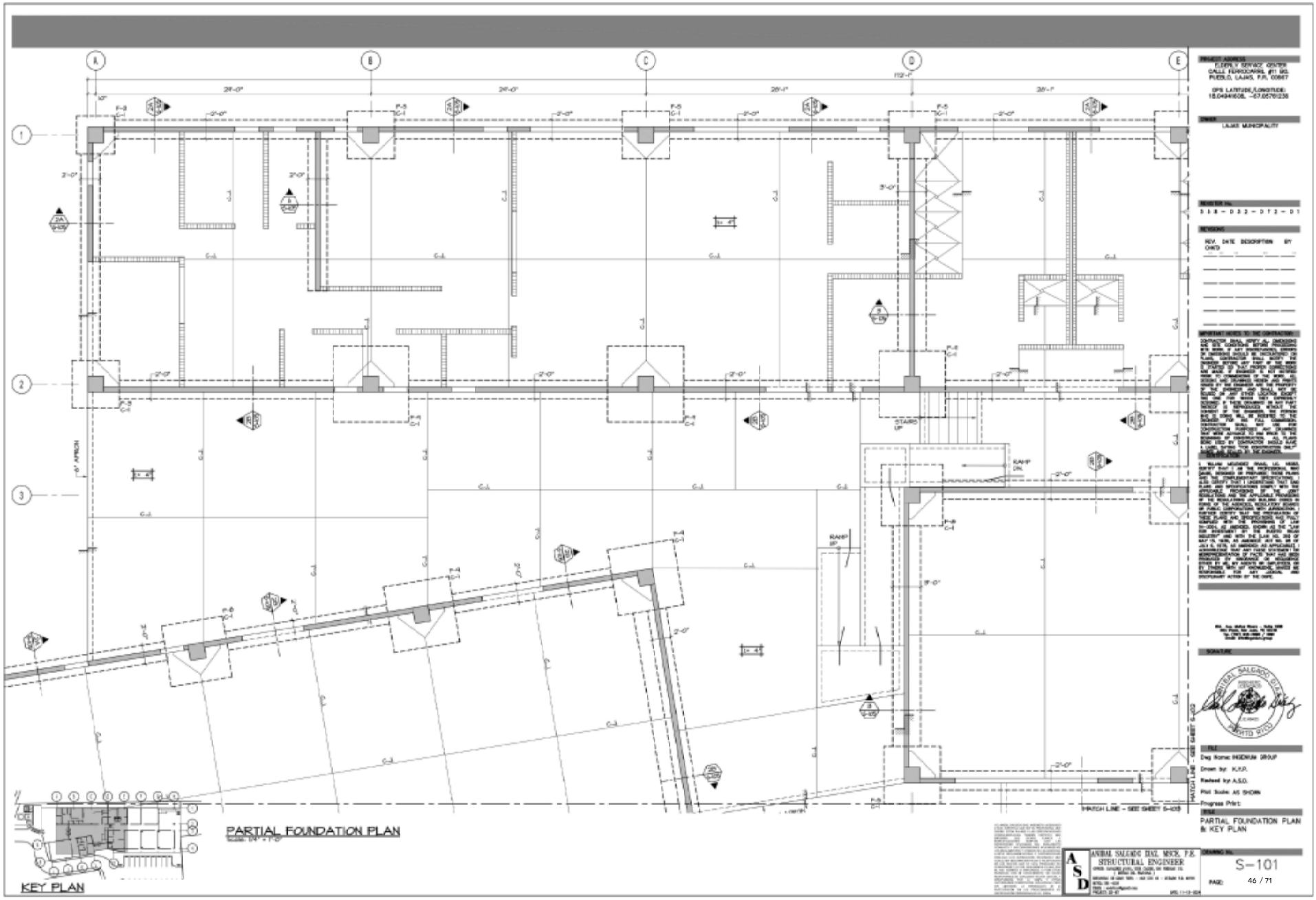
9.0 — COMMON NAME: VARIEGATED NEW ZEALAND FLAX; SCIENTIFIC NAME: PHORMIUM TENAX VARIEGATA; FORM: BUSH; SIZE: 1-12' FEET IN HEIGHT; LIGHT: FULL SUN (SPACE AND LIGHT); QUANTITY: (28)

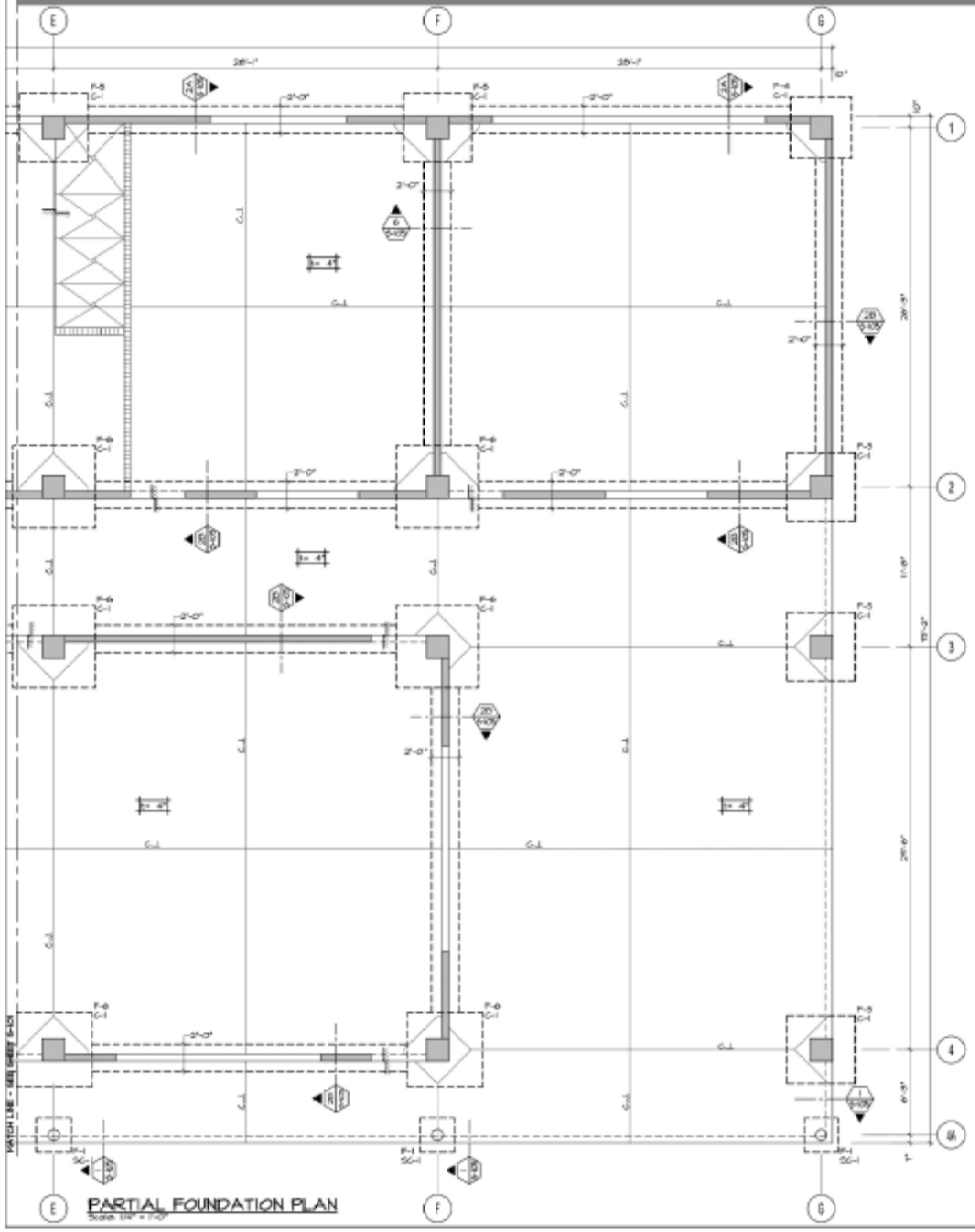
10.0 — COMMON NAME: XANADU; SCIENTIFIC NAME: PHILODENDRON XANADU; FORM: PLANT; SIZE: 2'-3' FEET IN HEIGHT; LIGHT: SEMI SHADE; QUANTITY: (40)

11.0 — COMMON NAME: GIANT LILYTURF; SCIENTIFIC NAME: SPI RITOPOGON DABURAN 'VITTATUS'; FORM: PLANT; SIZE: 1'-2' FEET IN HEIGHT; LIGHT: PART SHADE TO FULL SHADE; QUANTITY: (99)

12.0 — COMMON NAME: GOOD LUCK PLANT; SCIENTIFIC NAME: CORDYLINE FRUTICOSA; FORM: PLANT; SIZE: 9'-12' FEET IN HEIGHT; LIGHT: PART SHADE TO FULL SHADE; QUANTITY: (9)

13.0 — COMMON NAME: HELECHO MACHO; SCIENTIFIC NAME: NEPHROLEPSIS BISERRATA; FORM: HERBACEOUS PLANT; SIZE: 1'-3' FEET IN HEIGHT; LIGHT: SEMI SHADE; QUANTITY: (60)


PARTIAL FOUNDATION PLAN
KEY PLAN
MATCH LINE - SEE SHEET S-102
MATCH LINE - SEE SHEET S-103
STAIRS UP
RAMP DN
RAMP UP
PROJECT ADDRESS
ELDERLY SERVICE CENTER
CALLE FERROCARRIL #11 SEC.
PUERTO, LAJAS, P.R. 00667
GPS LATITUDE/LONGITUDE:
18.04941608, -67.0576238
OWNER
LAJAS MUNICIPALITY
REVISIONS
REV. DATE DESCRIPTION BY CHKD
IMPORTANT NOTES TO THE CONTRACTOR:
ANIBAL SALGADO DIAZ, MSCE, P.E.
STRUCTURAL ENGINEER
ASD
FILE
Dwg Name: MEDIUM GROUP
Drawn by: K.Y.P.
Revised by: A.S.D.
Plot Scale: AS SHOWN
Progress Print:
TITLE
PARTIAL FOUNDATION PLAN & KEY PLAN
DRAWING No.
S-101
PAGE: 46 / 71

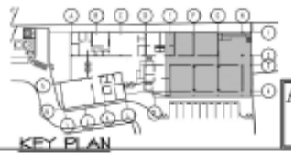


PARTIAL FOUNDATION PLAN

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

LEGEND:

- CONC. WALL OR COL. ABOVE & BELOW
- CONC. WALL OR COL. BELOW ONLY
- CONC. WALL OR COL. ABOVE ONLY
- MASONRY WALL
- MASONRY WALL BELOW



KEY PLAN

PROJECT ADDRESS
ELDERLY SERVICE CENTER
CALLE FERROCARRIL #11 (X),
PUEBLO, LAJAS, P.R. 00667

GPS LATITUDE/LONGITUDE:
18.0404605, -67.0570235

OWNER
LAJAS MUNICIPALITY

PERMIT No.
358-032-072-01

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D

IMPORTANT NOTES TO THE CONTRACTOR:

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE PROCEEDING WITH WORK. IF ANY DISCREPANCIES, CONFLICTS OR OMISSIONS SHOULD BE ENCOUNTERED ON PLANS, CONTRACTOR SHALL NOTIFY THE ENGINEER BEFORE ANY PART OF THE WORK IS STARTED OR ANY PURCHASE CONSTRUCTION HAS BEEN MADE. IF ENGINEER IS NOT NOTIFIED PRIOR TO COMMENCEMENT OF THE WORK, ANY DEVIATIONS FROM THE CONTRACT DOCUMENTS OR ANY PARTS OF THE WORK WHICH ARE NOT SATISFACTORY TO THE ENGINEER SHALL BE SUBJECT TO REJECTION OR ANY OTHER CORRECTIVE ACTION THAT THE CAN MAKE EVEN EXPENSIVE. REMOVED, IF WORK SHOWN OR ANY PART THEREOF IS REMOVED WITHOUT THE CONSENT OF THE ENGINEER, THE THINGS SHALL BE RESTORED TO THE SATISFACTION OF THE ENGINEER FOR NO EXTRA COMPENSATION. CONTRACTOR SHALL USE FOR CONSTRUCTION PURPOSES ONLY THE LATEST REVISED SET OF DRAWINGS WHICH BEAR THE SEAL OF THE ENGINEER. ANY WORK DONE BY CONTRACTOR WHICH IS NOT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS SHALL BE CORRECTED AT NO EXTRA COST TO THE OWNER.

I, WILLIAM MELENDEZ PAGAN, LLC, HEREBY CERTIFY THAT I AM THE PROFESSIONAL WHO DRAWS, DESIGNS OR PREPARES THOSE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I SUPERVISED THAT THE PLANS AND SPECIFICATIONS COMPLY WITH THE CONSTRUCTION REGULATIONS AND THE APPLICABLE INSTALLATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE AT THE AGENCIES, REGULATORY BODIES OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW [illegible] AS AMENDED, KNOWN AS THE LAW FOR ASSISTANCE OF THE PUERTO RICAN ARCHITECT" AND WITH THE LAW NO. 173 OF JULY 12, 1978, AS AMENDED, ACT NO. 49 OF JULY 6, 1979, AS AMENDED, AS APPLICABLE. I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION MADE THAT HAS BEEN RELIED UPON BY ANY PERSON OR GOVERNMENTAL ENTITY, BY AGENCY OR EMPLOYEE OF THE GOVERNMENT OF PUERTO RICO, MAY RESULT IN [illegible] ACTIONS, CIVIL AND CRIMINAL, AND DISCIPLINARY ACTION BY THE CIPA.

[illegible]
[illegible]
[illegible]

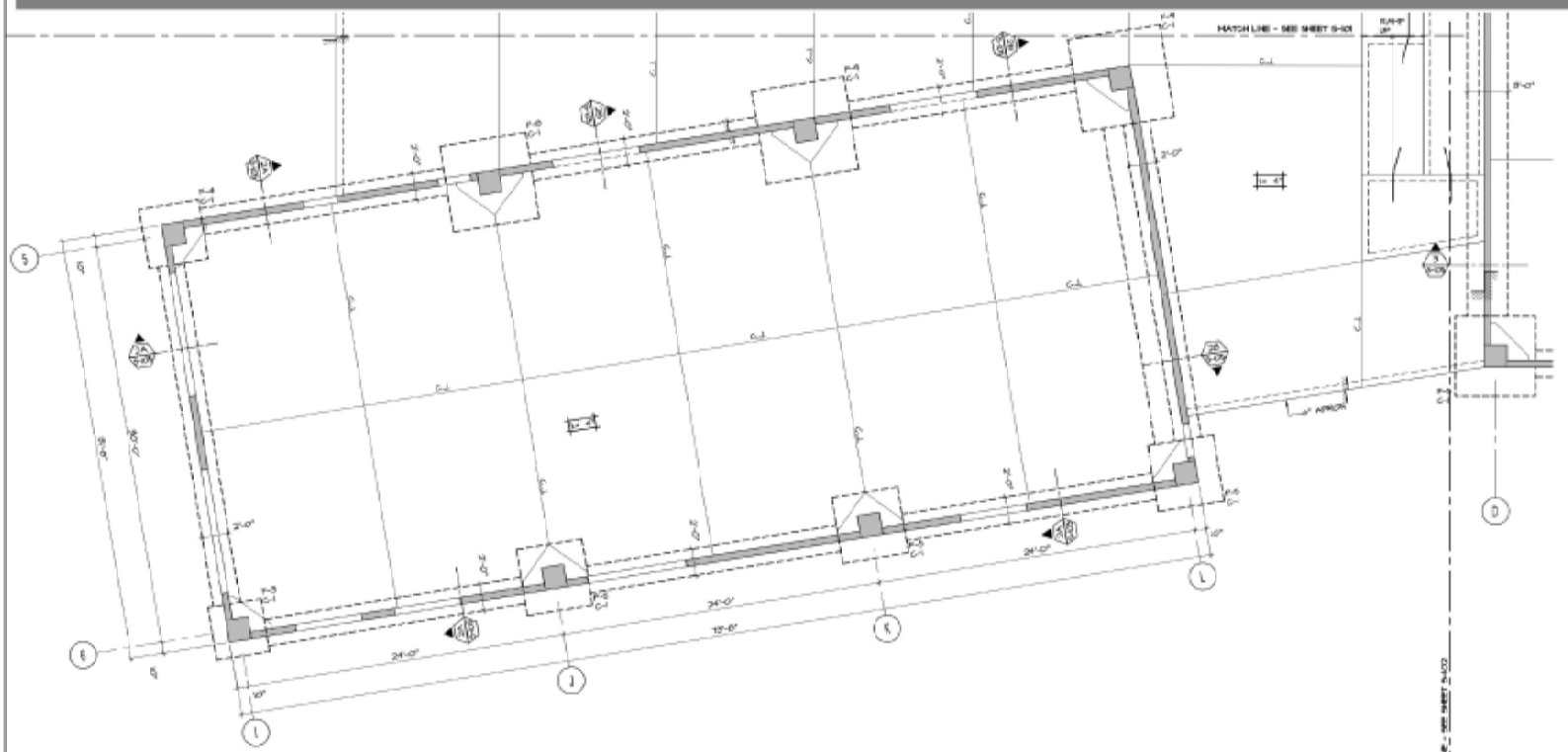
SIGNATURE

FILE
Dwg Name: INGENIUM GROUP
Drawn by: K.P.R.
Revised by: A.S.D.
Plot Scale: AS SHOWN
Progress Print:

TITLE
PARTIAL FOUNDATION PLAN
LEGEND & KEY PLAN

DRAWING No.
S-102

ANIBAL SALGADO DIAZ, MSCE, P.E.
STRUCTURAL ENGINEER
[illegible]



PARTIAL FOUNDATION PLAN

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

PROJECT ADDRESS:
ELDERLY SERVICE CENTER
CALLE FERROCARRIL #61 BO.
PUEBLO, LAJAS, P.R. 00667

GPS LATITUDE/LONGITUDE:
18.04041500, -67.05781234

OWNER:
LAJAS MINICIPALITY

REGISTER No.
358-032-072-01

REVISIONS

REV.	DATE	DESCRIPTION	BY CHK'D

IMPORTANT NOTES TO THE CONTRACTOR:

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE PROCEEDING WITH WORK. IF ANY DISCREPANCIES, ERRORS OR OMISSIONS SHOULD BE ENCOUNTERED ON PLANS, CONTACT THE ENGINEER OF RECORD BEFORE PROCEEDING. ANY WORK DONE AFTER SUCH DISCOVERY SHALL BE DONE AT CONTRACTOR'S RISK. CONTRACTOR IS TO VERIFY ALL PLANS, FIGURES AND BEARINGS SHOWN AND THERE SHALL BE NO CHANGES FROM THE PLANS AS DRAWN BY THE ENGINEER AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS ON ANY SHOP DRAWINGS THAT ARE NOT SPECIFICALLY NOTICED BY THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONSTRUCTION OF FORMWORK, SHORING AND SCAFFOLDING. FURTHERMORE, ANY DRAWINGS THAT WERE ADVANCE TO BID FROM TO THE BEGINNING OF CONSTRUCTION ALL PLANS BEING USED BY CONTRACTOR SHOULD HAVE A LATEST DATE FROM CONSTRUCTION ONLY.

ENGINEER'S SEAL:

I, WILLIAM MELENDEZ RIVAS, LIC. #18822, CERTIFY THAT I AM THE PROFESSIONAL WHO SIGNS, SEALED OR PREPARED THESE PLANS AND THE SUPPLEMENTARY SPECIFICATIONS, AND ALSO CERTIFY THAT PROFESSIONAL THAT HAS PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF JOINT REGULATIONS AND THE APPLICABLE STANDARDS OF THE BUILDING AND BUILDING TOOLS AS CONTAINED IN THE NATIONAL BUILDING CODE OF PUERTO RICO, NEDA-ARMED BOARD OF ENGINEERS AND SURVEYORS, INC. (CAPITULO DE PUERTO RICO) AND THE PROVISIONS OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 9—2004, AS AMENDED, KNOWN AS THE LAW "ON SUBJECT BY THE PUERTO RICAN BOARD" AND WITH ALSO LAW NO. 173 OF JULY 12, 1988, AS AMENDED ACT NO. 95 OF JULY 4, 1979, AS AMENDED, AS APPLICABLE, ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PROVIDED BY PROFESSIONAL OR ASSOCIATE ENGINEER OR ANY OTHER EMPLOYEE OF THE OFFICE OR ANY OTHER PERSON EMPLOYED OR AUTHORIZED BY THE SAID JURISDICTION AND COMPLIANT WITHIN BY THE LAWS.

ING. AMBAL SALGADO DIAZ — LIC. 18822
Apt. Postal 1111, Lajas, PR 00667-1111
Tel. (787) 899-2888 / 1888
Email: info@ingenium.group

SIGNATURE

FILE

Dwg. Name: INGENIUM GROUP

Drawn by: K.Y.P.

Revised by: A.S.D.

Plot Scale: AS SHOWN

Progress Print:

TITLE

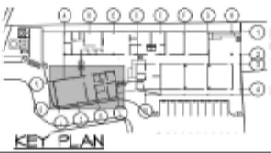
PARTIAL FOUNDATION PLAN & KEY PLAN

DRAWING No.

S-103

PAGE 48 / 71

ASD
AMBAL SALGADO DIAZ, MSCE, P.E.
STRUCTURAL ENGINEER



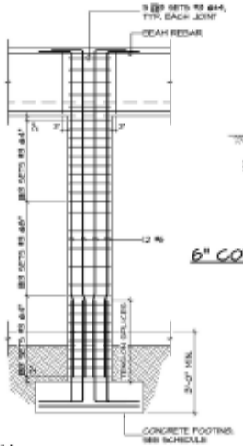
KEY PLAN

SQUARE FOOTING REINFORCEMENT SCHEDULE

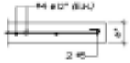
FOOTING MK'D	A x A	T	REINF. # (B, E/W)
F-1	2'-6" x 2'-6"	12"	4 #4
F-2	3'-0" x 3'-0"	12"	4 #4
F-3	4'-0" x 4'-0"	12"	5 #4
F-4	4'-6" x 4'-6"	13"	6 #4
F-5	5'-0" x 5'-0"	13"	7 #4
F-6	5'-6"x 5'-6"	14"	6 #5
F-7	6'-0" x 6'-0"	15"	7 #5
F-8	6'-6" x 6'-6"	16"	8 #5
F-9	7'-0" x 7'-0"	18"	9 #5

TENSION SPLICES

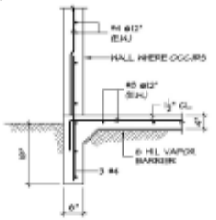
BAR	f'_c = 3.0 ksi	f'_c = 4.0 ksi	f'_c = 5.0 ksi
	LENGHT	LENGHT	LENGHT
#3	24"	22"	20"
#4	34"	28"	26"
#5	42"	36"	32"
#6	50"	42"	38"
#7	58"	50"	44"
#8	66"	58"	52"
#9	74"	66"	58"
#10	82"	74"	64"
#11	90"	80"	70"



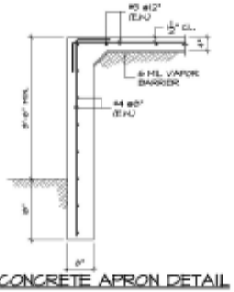
TYPICAL
CONCRETE COLUMN ELEVATION



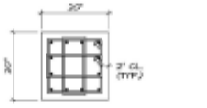
CONCRETE
WALL END DETAIL



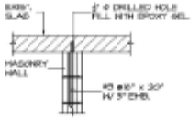
6" CONCRETE APRON DETAIL



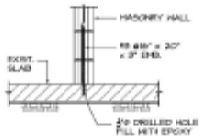
8" CONCRETE APRON DETAIL



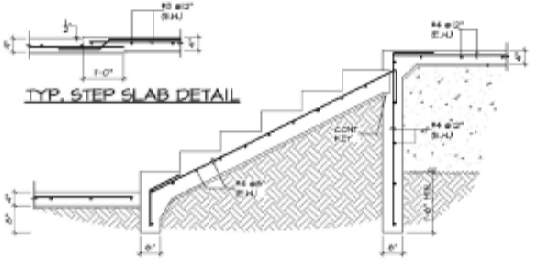
CONCRETE
COLUMN MK'D C-1



TYP. MASONRY WALL
CONN. TO EXISTING SLAB

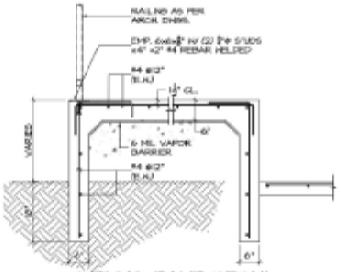


TYP. MASONRY WALL CONN.
TO EXISTING FLOOR SLAB

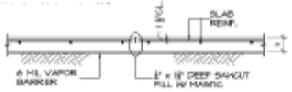


TYP. STEP SLAB DETAIL

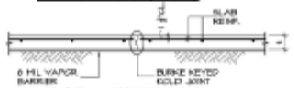
STAIR ON GRADE DETAIL



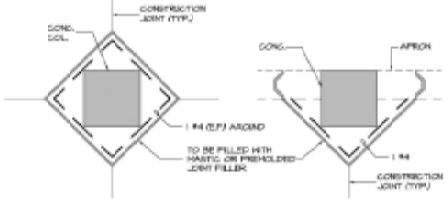
TYPICAL RAMP DETAIL



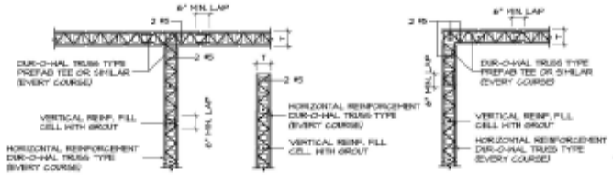
SAW-CUT CONTROL
JOINT DETAIL (S.C.J.)



SLAB CONSTRUCTION
JOINT DETAIL (C.J.)



TYPICAL ISOLATION JOINT DETAIL



AT INTERSECTION AT END WALL AT CORNER
TYPICAL CONC. BLOCK WALL REINFORCEMENT DETAILS

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. 5,000 psf @ 3'-0" below Existing Grade as per soil report prepared for this project by Atlantic 1 Associates, LLC. Drilling contractor, dated May 4, 2018. 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 .46.
3. Normal weight aggregate of coarse aggregate shall be not larger than:
   a. ¼ the narrowest dimensions between sides of forms nor,
   b. ¾ 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. Slab and Bottom 3"
      ii. Top 2"
   b) Walls
      i. Pour against earth 3"
      ii. Exposed to earth or weather ½" for #5 and smaller; 2" for #6 and larger
      iii. Not exposed to earth or weather ½" up to #11 and smaller; ¾" for #14 and larger
   c) Slabs and Joists ¾" for #11 and smaller; 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 and 50 diameters in beams use tension splices at 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!
   8" walls #4 @12" (e.w.)
9. Provide 2 #5 vertical reinforcement, at each wall end (Unless Noted)
10. At 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 slabs on grade shall be 4" thick reinforced with #3 @12" (E.W.).
12. All one way slabs shall have temp. relief, as follows: Cliffs of sections area (excluding integral topping), 1-6" use #3 @12", 1-6" use #3 @12" and 1-1" use #3 @6".

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 C-90-75.
2. Mortar shall be Type M and shall meet the requirements of ASTM C-270-67a.
3. Grout shall be meet the requirements of ASTM C-476-68 with a slump of 7" and 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.
4"	#3 @16" or #4 @32"	Dur-O-Wal STD S.G. Coarse
6"	#3 @16" or #4 @32"	Dur-O-Wal STD Every course

7. All wall corners shall be masonry bonded.

E. Design Loads

1. Live Loads
   a) Roof 20 psf
   b) Floors 100 psf
   c) Storage 125 psf
2. Wind Loads
   a) As per ANSI/ASCE 7-2016
3. Seismic Loads
   a) As per IBC-2018

F. Applicable Codes

1. ACI 318-2014
2. IBC-2018
3. ANSI/ASCE 7-2016

PROJECT ADDRESS
ELDERLY SERVICE CENTER
CALLE FERROCARRIL #61 BO.
PUEBLO, LAJAS, P.R. 00667

GPS LATITUDE/LONGITUDE)
18.040441500, -67.057611236

OWNER
LAJAS MUNICIPALITY

REVISION No.
358-032-072-01

REVISIONS

REV.	DATE	DESCRIPTION	BY CHK'D

IMPORTANT NOTES TO THE CONTRACTOR:

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE PROCEEDING WITH WORK. IF ANY DISCREPANCIES, ERRORS OR OMISSIONS SHOULD BE ENCOUNTERED ON CLASS, CONDITIONS OR SHALL NOT BE CONSIDERED AS A BASIS FOR ANY EXTRA COMPENSATION UNLESS THE CONTRACTOR HAS FIRST SUBMITTED WRITTEN NOTICE AND OBTAINED WRITTEN INSTRUCTIONS TO PROCEED FROM THE ARCHITECT AND/OR ENGINEER. ALL DRAWINGS AND DRAWINGS, NOTES AND PARTS THEREOF, ARE THE PROPERTY OF THE ENGINEER AND SHALL NOT BE USED BY ANY ONE EXCEPT THE OWNER AND ENGINEER. THEY SHALL NOT BE LOANED, COPIED OR REPRODUCED, WITHOUT THE WRITTEN CONSENT OF THE ENGINEER. ALL DRAWINGS AND DRAWINGS, NOTES AND PARTS THEREOF, ARE TO BE RETURNED TO THE ENGINEER ON REQUEST AT THE COMPLETION OF THE WORK. THE CONTRACTOR SHALL VERIFY AND COORDINATE ALL DIMENSIONS, CONDITIONS, EQUIPMENT AND DRAWINGS THAT WERE ADVANCED TO HIM PRIOR TO THE BEGINNING OF CONSTRUCTION. ALL PLANS, BOND AND/OR CONTRACTOR SHOULD HAVE A LATEST DATING "FOR CONSTRUCTION ONLY" BEFORE BEGINNING ANY CONSTRUCTION.

PROFESSIONAL ENGINEER

I, WILLIAM MELENDEZ RIVAS, LIC. #18383, CERTIFY THAT I AM THE PROFESSIONAL WHO LEAD, OVERSEE OR PREPARED THESE PLANS AND THE SUPPLEMENTARY SPECIFICATIONS, I ALSO CERTIFY THAT DEPENDING THAT THESE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE CONSTRUCTION REGULATIONS AND REGULATIONS AND THE APPLICABLE STRUCTURAL CODES, AND FURTHER THAT THEY COMPLY WITH THE NATIONAL SEISMIC-RESISTANT DESIGN REGULATIONS FOR BUILDINGS AND OTHER STRUCTURES (NEHRP) AND RECOMMENDATIONS OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 76-2004, AS AMENDED, KNOWN AS THE "LAW FOR ENERGY EFFICIENCY IN CONSTRUCTION", AND WITH R.E. LAW NO. 95 OF JULY 16, 1978, AS AMENDED, AS APPLICABLE, ACKNOWLEDGE THAT I HAVE EVALUATED THE IMPLEMENTATION OF FACTS THAT HAVE BEEN PROVIDED TO ME REGARDING THE SOIL STUDIES, AND FURTHER STATE, BY VIRTUE OF MY SIGNATURE AND SEAL, THAT I ACCEPT THE RESPONSIBILITY OF THESE DOCUMENTS AND THAT I AM THE PROFESSIONAL OF RECORD FOR THE PROJECT AND THAT I AM COMPLIANT WITH THE LAWS.

PROF. ENG. WILLIAM MELENDEZ RIVAS, LIC. #18383
MAT. PUEBLO, LAJAS, P.R. 00667
TEL. (787) 855-0000 / (787)
EMAIL: WILLIAM@GMAIL.COM

SIGNATURE

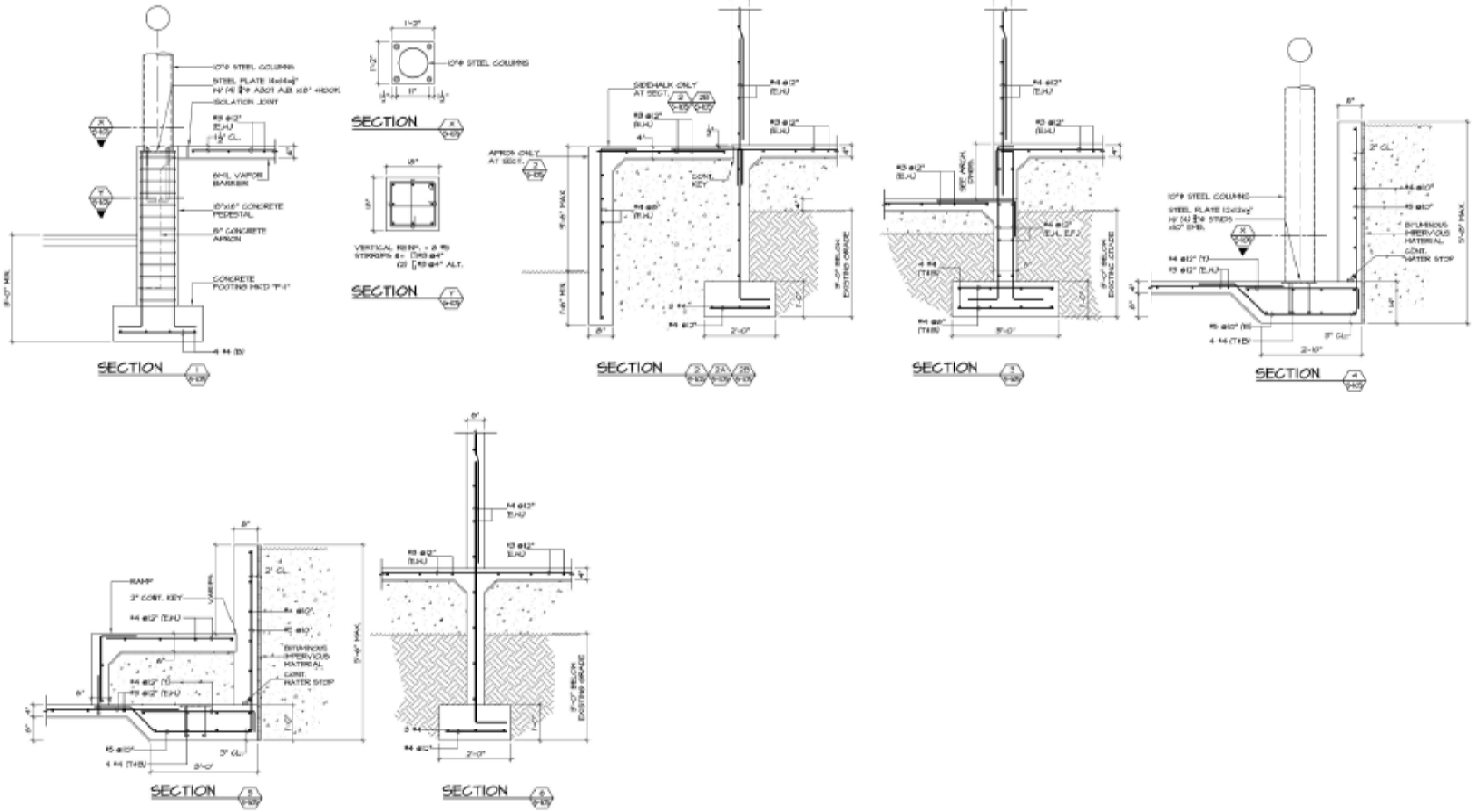
FILE
Dwg. Name: INGENIUM GROUP
Drawn by: K.Y.P.
Revised by: A.S.D.
Plot Scale: AS SHOWN
Progress Print:

TITLE
STRUCTURAL NOTES, SECTIONS & DETAILS

DRAWING No.
S-104

PAGE 49 / 71

ANIBAL SALGADO DIAZ, MSCE, P.E.
STRUCTURAL ENGINEER



PROJECT ADDRESS:
ELDERLY SERVICE CENTER
CALLE FERROCARRIL #61 BO.
PUEBLO, LAJAS, P.R. 00667

GPS LATITUDE/LONGITUDE:
18.04041500, -67.05761234

OWNER:
LAJAS MUNICIPALITY

REGISTER No.
358-032-072-01

REVISIONS:

REV.	DATE	DESCRIPTION	BY
CHG'S	-	-	-

IMPORTANT NOTES TO THE CONTRACTOR:

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE PROCEEDING WITH WORK. IF ANY DISCREPANCIES, ERRORS OR OMISSIONS SHOULD BE ENCOUNTERED ON PLANS, CONTACT THE ENGINEER OF RECORD BEFORE PROCEEDING WITH THAT PART OF THE WORK. NO EXTRA WILL BE PAID FOR WORK DONE WHICH IS PLANNED TO SHOW PROPER CONNECTIONS AND DETAILS WHICH ARE OMITTED FROM ANY REVIEW OR APPROVAL OF SHOP DRAWINGS. ALL DRAWINGS AND DRAWINGS, NOTES AND PARTS THEREOF BY THE ENGINEER ARE THE PROPERTY OF THE ENGINEER AND SHALL NOT BE USED IN ANY WAY OR LOCATION EXCEPT THE ONE FOR WHICH THEY EXPRESSLY INTENDED. IF THESE DRAWINGS ARE NOT THAT HAVE BEEN SIGNED AND SEALED BY THE ENGINEER OF RECORD, THEY SHALL NOT BE USED FOR CONSTRUCTION PURPOSES. ANY DRAWINGS THAT WERE ADVANCE TO BID PRIOR TO THE BEGINNING OF CONSTRUCTION. ALL PLANS BEING USED BY CONTRACTOR SHOULD HAVE A LATEST DATING FOR CONSTRUCTION ONLY.

I HEREBY CERTIFY:

I, WILLIAM MELENDEZ RIVAS, LIC. #13851, CERTIFY THAT I AM THE PROFESSIONAL WHO LAJAS, OBTAINED OR PREPARED THESE PLANS AND THE SUPPLEMENTARY SPECIFICATIONS, I ALSO CERTIFY THAT I PERFORMED THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF LAW, REGULATIONS AND THE APPLICABLE STANDARDS OF THE BUILDING AND BUILDING CODES IN FORCE IN THE MUNICIPALITY OF LAJAS, EXCEPT FOR VARIANCES THAT MAY HAVE BEEN GRANTED BY THE MUNICIPALITY OF LAJAS. THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISION OF LAW 9—2004, AS AMENDED KNOWN AS THE LAW ON ETHICS GOVERNMENT BY PUBLIC SERVANTS, KNOWN AS "LEY DE ETICA GUBERNAMENTAL" AND WITH R.E. LAW NO. 84 OF MAY 18, 1976, AS AMENDED, ACT NO. 96 OF JULY 6, 1978, AS AMENDED, AS APPLICABLE. I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PROVIDED BY ME/WE IN CONNECTION WITH THESE PLANS AND SPECIFICATIONS MAY RESULTS IN THE REVOCATION OF MY/OUR LICENSE(S) OR CERTIFICATE(S) AND MAY SUBJECT ME/US TO CRIMINAL AND CIVIL PENALTIES. I AM DULY LICENSED AND COMPLIANT WITH MY CIPA.

ING. JOSE MARIO TORO — NUM. 5858
MAT. PUBLI. NUM. 5858 — FE 2019
Lic. CIVIL MECANICO / 5858
Email: info@gestoro.com

SIGNATURE:

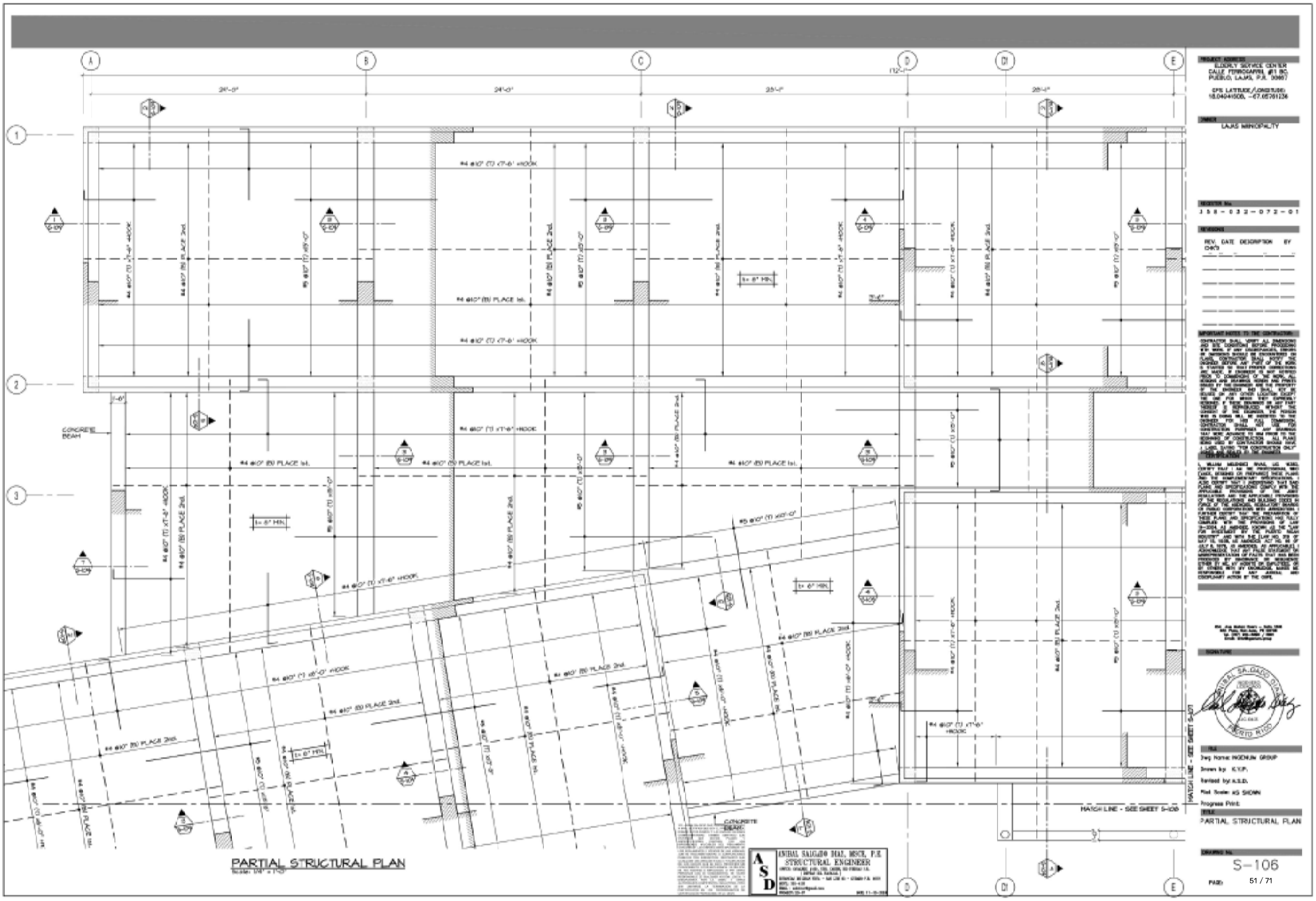
FILE:
Dwg. Name: INGENIUM GROUP
Drawn by: K.Y.P.
Revised by: A.S.D.
Plot Scale: AS SHOWN
Progress Print:

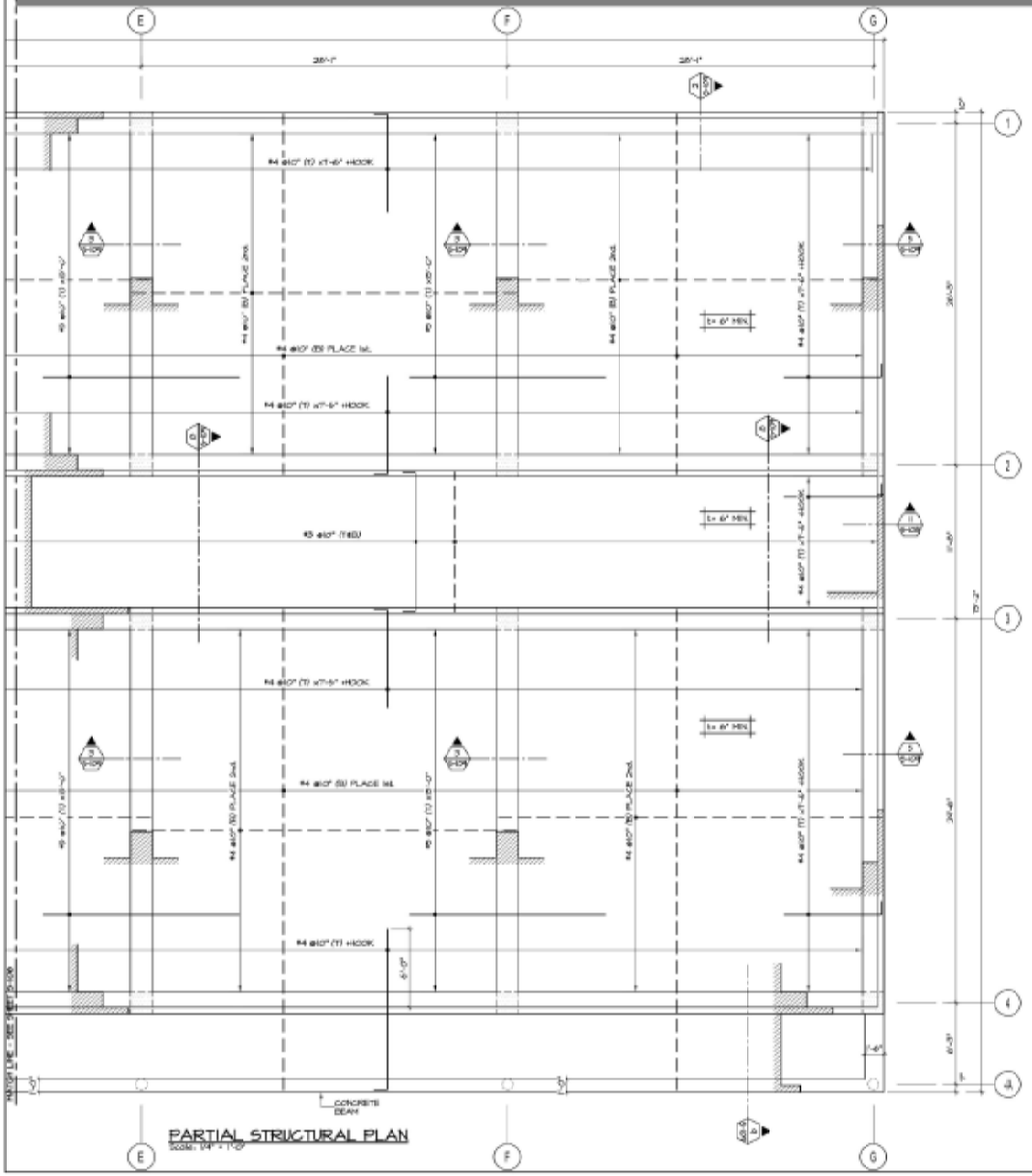
TITLE:
SECTIONS

DRAWING No.
S-105

PAGE 50 / 71

ANIBAL SALGADO DIAZ, MSCE, P.E.
STRUCTURAL ENGINEER
OFICINA: CALLE JOSE DEL CARMEN, 30 PUEBLO P.R. 00795
RESIDENCIAL: CALLE CEIBA — RES. LOS M — LAJAS P.R. 00795
(939) 314-4123
EMAIL: asalgado@gmail.com
REGISTRO: 13-37


PARTIAL STRUCTURAL PLAN
Escalas: 3/16" = 1'-0"
CONCRETE BEAM
MATCH LINE - SEE SHEET S-107
MATCH LINE - SEE SHEET S-105
ANIBAL SALGADO DIAZ, MSCE, P.E.
STRUCTURAL ENGINEER
PROJECT ADDRESS:
ELDERLY SERVICE CENTER
CALLE FERROCARRIL #61 BO.
PUEBLO, LAJAS, P.R. 00667
GPS LATITUDE/LONGITUDE:
18.04041500, -67.05781230
OWNER
LAJAS MINICIPALITY
REVISIONS
REV. DATE DESCRIPTION BY CHK'D
SIGNATURE
ANIBAL SALGADO DIAZ
LICENSE
PUERTO RICO
Dwg. Name: INGENIUM GROUP
Drawn by: K.Y.P.
Revised by: A.S.D.
Plot Scale: AS SHOWN
Progress Print:
TITLE
PARTIAL STRUCTURAL PLAN
DRAWING No.
S-106
PAGE
51 / 71



PROJECT ADDRESS:
ELDERLY SERVICE CENTER
CALLE FERROCARRIL #61 BO.
PUEBLO, LAJAS, P.R. 00667

GPS LATITUDE/LONGITUDE:
18.04044500, -67.05781234

OWNER:
LAJAS MINICIPALITY

RECEIVED No.
J58-032-072-01

REVISIONS

REV.	DATE	DESCRIPTION	BY CHK'D

IMPORTANT NOTES TO THE CONTRACTOR:

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE PROCEEDING WITH WORK. IF ANY DISCREPANCIES, ERRORS OR OMISSIONS SHOULD BE ENCOUNTERED OR CLAIMED, CONTACT OF SHALL NOT BE CONSIDERED BEFORE ANY PART OF THE WORK IS STARTED OR SHALL PROVIDE CORRECTIONS AT NO EXTRA COST. ALL DRAWINGS, SPECIFICATIONS AND REVISIONS, ISSUED BY THE ENGINEER AND THEIR CONSULTANTS, AS INSTRUMENTS OF SERVICE, SHALL REMAIN THE PROPERTY OF THE ENGINEER AND SHALL NOT BE REUSED OR USED BY OTHERS WITHOUT THE EXPRESS WRITTEN CONSENT OF THE ENGINEER. ALL DRAWINGS AND BUSINESS, NOTES AND PLANS ISSUED BY THE ENGINEER ARE THE PROPERTY OF THE ENGINEER AND SHALL NOT BE REUSED OR USED BY OTHERS WITHOUT THE EXPRESS WRITTEN CONSENT OF THE ENGINEER. ANY CHANGES OR DEVIATIONS FROM THE CONTRACT DOCUMENTS SHALL BE REPORTED TO THE ENGINEER IN WRITING PRIOR TO THE EXECUTION OF THE WORK. NO CHANGES OR DEVIATIONS SHALL BE MADE WITHOUT THE ENGINEER'S WRITTEN APPROVAL. ANY DISCREPANCIES, OMISSIONS, OR CONFLICTS SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY. FAILURE TO DO SO SHALL CONSTITUTE ACCEPTANCE OF ANY AND ALL RESPONSIBILITY RESULTING THEREFROM. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE PRIOR TO THE BEGINNING OF CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY. THE CONTRACTOR SHALL NOT SCALE THE DRAWINGS. ALL DIMENSIONS SHALL BE VERIFIED IN THE FIELD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECTION OF ANY ERRORS OR OMISSIONS CAUSED BY THE FAILURE TO COMPLY WITH THIS REQUIREMENT. THE CONTRACTOR SHALL NOT USE THE DRAWINGS FOR CONSTRUCTION PURPOSES UNLESS THEY ARE ISSUED FOR CONSTRUCTION. ALL DRAWINGS MARKED "PRELIMINARY" OR "NOT FOR CONSTRUCTION" ARE FOR PERMIT, BIDDING OR REVIEW PURPOSES ONLY. THE CONTRACTOR SHALL NOT USE THESE DRAWINGS FOR CONSTRUCTION PURPOSES. ANY DRAWINGS THAT WERE ADVANCE TO BID PRIOR TO THE BEGINNING OF CONSTRUCTION. ALL PLANS BEING USED BY CONTRACTOR SHOULD HAVE A LATEST DATING FOR CONSTRUCTION ONLY. THIS PLANS ARE TO BE SIGNED BY THE OWNER.

I, WILLIAM MELENDEZ RIVAS, LIC. N°3551, CERTIFY THAT I AM THE PROFESSIONAL WHO LAID, DESIGNED OR PREPARED THESE PLANS AND THE SUPPLEMENTARY SPECIFICATIONS, I ALSO CERTIFY THAT I DESIGNED THAT THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF ALL CONSTRUCTION REGULATIONS AND THE APPLICABLE STANDARDS OF THE BUILDING AND BUILDING CODES AS CURRENTLY IN FORCE. I ALSO CERTIFY THAT THESE PLANS AND SPECIFICATIONS HAS BEEN PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND CONTROL SO THAT THE PROVISIONS OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 9-2004, AS AMENDED KNOWN AS THE "LAW FOR EVALUATION BY THE PUERTO RICAN ENGINEER" AND WITH RUE 2 LAW NO. 93 OF MAY 10, 1976, AS AMENDED ACT NO. 84 OF JULY 8, 1978, AS AMENDED, AS APPLICABLE. I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRESENTED BY PROPOSER IN REGARDS TO THIS BID WILL BE SUFFICIENT REASON TO DISQUALIFY THE PROPOSER FROM THE BIDDING PROCESS AND NOT AWARDED, AND CONSIDERED AS NOT RESPONSIBLE AND COMPLIANT ACTION BY THE OWPE.

SIGNATURE

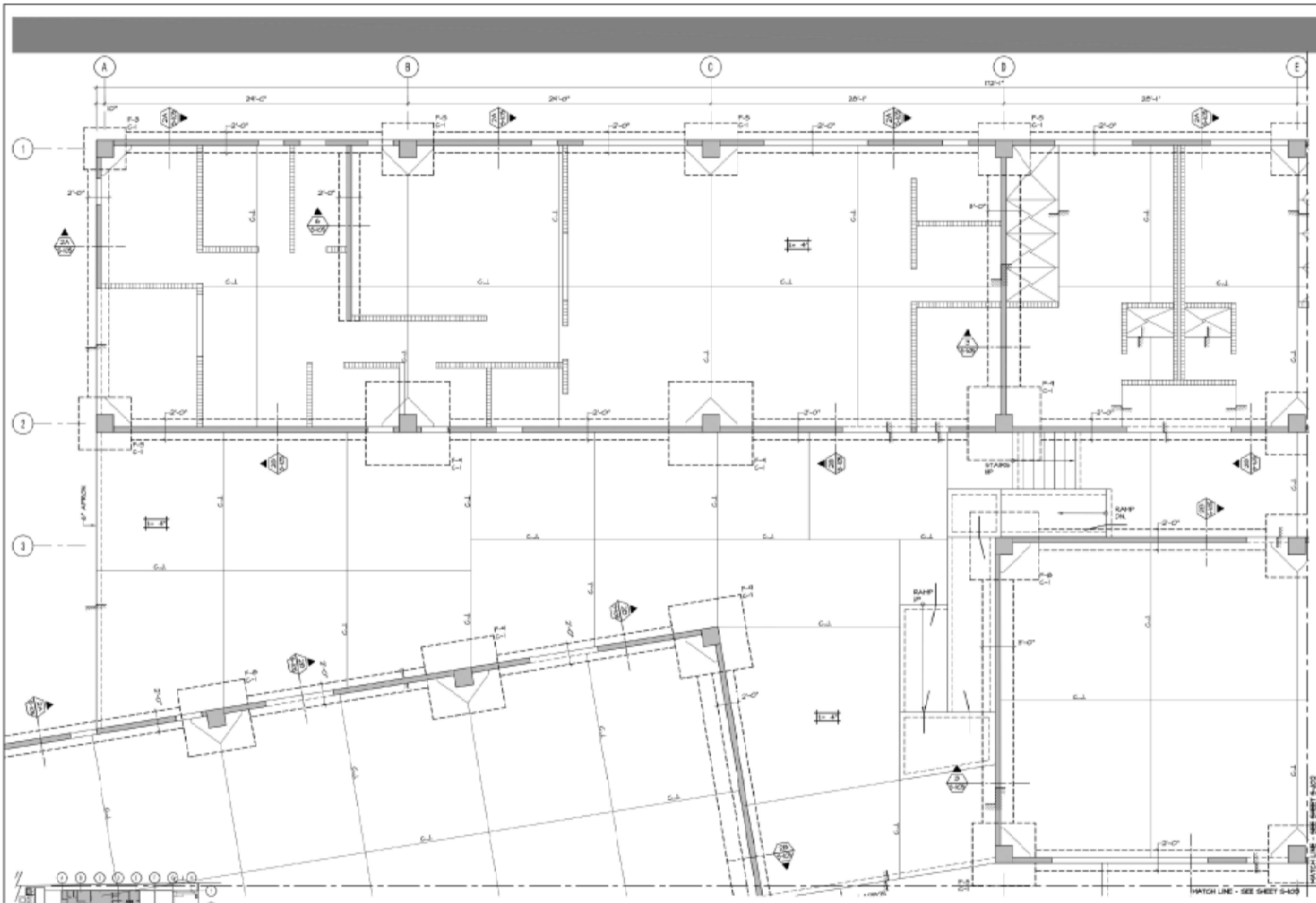
ANIBAL SAGADE DIAZ
LIC. 3551
PUERTO RICO

FILE
Dwg. Name: INGENIUM GROUP
Drawn by: K.Y.P.
Revised by: A.S.D.
Plot Scale: AS SHOWN
Progress Print:

TITLE
PARTIAL STRUCTURAL PLAN

ASD
ANIBAL SAGADE DIAZ, MSCE, P.E.
STRUCTURAL ENGINEER

DRAWING No.
S-107
PAGE 52 / 71



PARTIAL FOUNDATION PLAN

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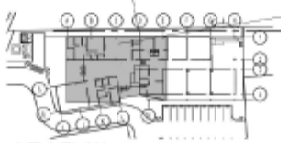


KEY PLAN

PROJECT ADDRESS:
ELDERLY SERVICE CENTER
CALLE FERROCARRIL #61 BO.
PUEBLO, LAJAS, P.R. 00667

GPS LATITUDE/LONGITUDE:
18.04041500, -67.05781230

OWNER:
LAJAS MINICIPALITY

RECEIVED No.
J58-032-072-01

REVISIONS

REV.	DATE	DESCRIPTION	BY CHK'D

IMPORTANT NOTES TO THE CONTRACTOR:

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE PROCEEDING WITH WORK. IF ANY DISCREPANCIES, ERRORS OR OMISSIONS SHOULD BE ENCOUNTERED ON PLANS, CONTACT THE ENGINEER OF RECORD BEFORE ANY PART OF THE WORK IS STARTED OR SHALL PROVIDE CONNECTIONS WHICH ARE NOT SHOWN IN DETAIL ON THE PLANS. ALL DIMENSIONS SHALL BE VERIFIED IN THE FIELD. ALL DRAWINGS AND WORKING MODELS ARE THE PROPERTY OF THE ENGINEER AND SHALL NOT BE USED IN WHOLE OR IN PART FOR ANY OTHER PROJECT OR ADDITIONS TO THIS PROJECT EXCEPT BY THE AGREEMENT IN WRITING FROM THE ENGINEER. ANY DISCREPANCY BETWEEN PLANS AND SPECIFICATIONS SHALL BE REFERRED TO THE ENGINEER BEFORE THE WORK INVOLVED IS EXECUTED. WITHOUT THIS AUTHORIZATION, ANY WORK DONE SHALL BE DONE AT THE CONTRACTOR'S RISK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECTION OF ANY WORK NOT CONFORMING TO THE DRAWINGS. FURTHER, ANY DRAWINGS THAT WERE ADVANCED TO BID PRIOR TO THE BEGINNING OF CONSTRUCTION ALL PLANS SHALL BE SUBMITTED FOR CONSTRUCTION PURPOSES ONLY. ANY DRAWINGS SUBMITTED FOR CONSTRUCTION SHALL BEAR THE SEAL AND SIGNATURE OF THE ENGINEER.

I, WILLIAM MELENDEZ RIVAS, LIC. #13551, CERTIFY THAT I AM THE PROFESSIONAL WHO PREPARED OR SUPERVISED THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS, AND THAT, TO THE BEST OF MY KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE REGULATIONS OF THE BUILDING CODE AND THE APPLICABLE ORDINANCES OF THE MUNICIPALITY OF LAJAS, PUERTO RICO, EXCEPT FOR THE NECESSARY VARIANCES WHICH HAVE BEEN REQUESTED. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 9—2004, AS AMENDED, KNOWN AS THE "LAW OF PROFESSIONAL ENGINEERS AND LAND SURVEYORS OF PUERTO RICO" AND WITH RULE NO. XIII OF ARTICLE 6, SUB-SECTION (a) OF LAW NO. 170 OF JULY 8, 1974, AS AMENDED, AS APPLICABLE. I ACKNOWLEDGE THAT FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PROVIDED BY PROFESSIONAL ENGINEERS OR LAND SURVEYORS IN THE PREPARATION OF PLANS AND SPECIFICATIONS SUBMITTED TO THE OFFICE OF PERMITS MANAGEMENT (OPM) MAY BE SUFFICIENT CAUSE FOR THE REVOCATION OF THE PROFESSIONAL LICENSE OF THE ENGINEER OR LAND SURVEYOR, AND COMPLAINT BEFORE THE COMPETENT AUTHORITIES.

SIGNATURE

WILLIAM A. MELENDEZ RIVAS
LIC. NO. 13551
PUERTO RICO

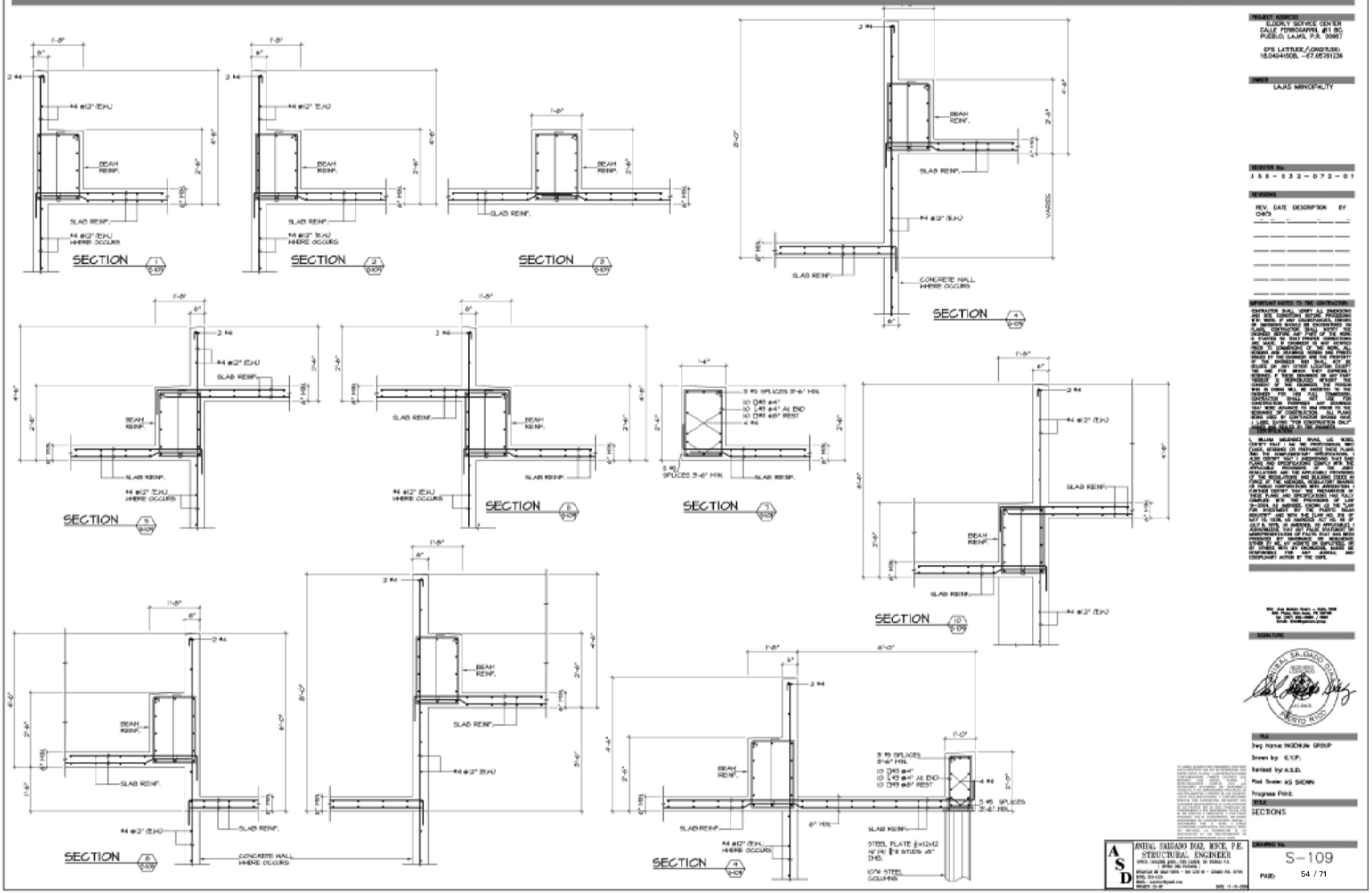
FILE
Dwg. Name: INGENIUM GROUP
Drawn by: K.Y.P.
Revised by: A.S.D.
Plot Scale: AS SHOWN
Progress Print:

TITLE
PARTIAL FOUNDATION PLAN
& KEY PLAN

DRAWING No.
S-101

PAGE 53 / 71

ASD
ANIBAL SALGADO DIAZ, MSCE, P.E.
STRUCTURAL ENGINEER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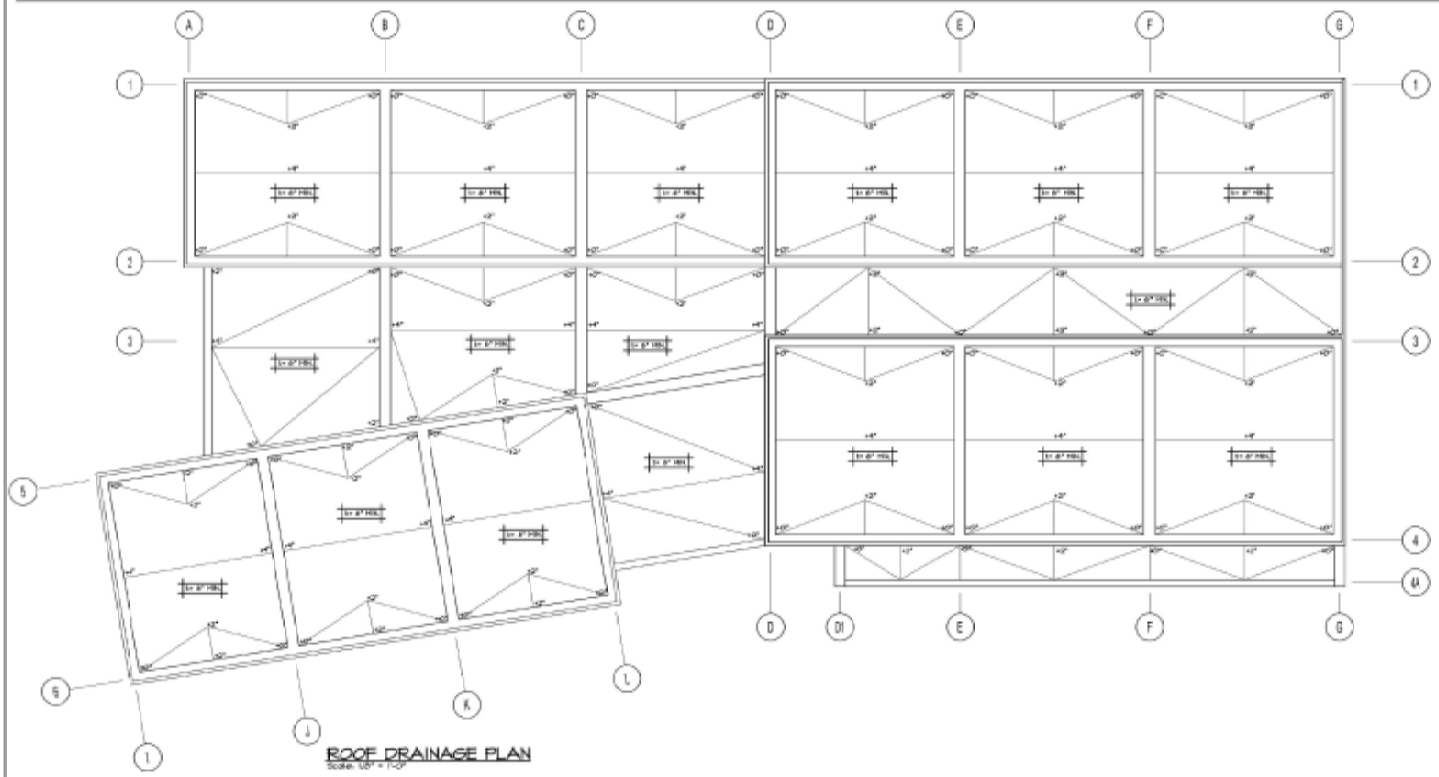

ROOF DRAINAGE PLAN

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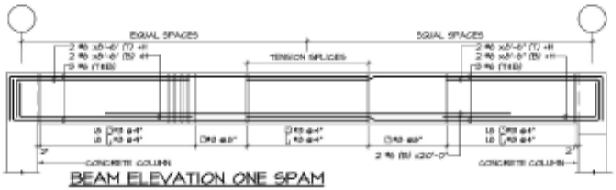
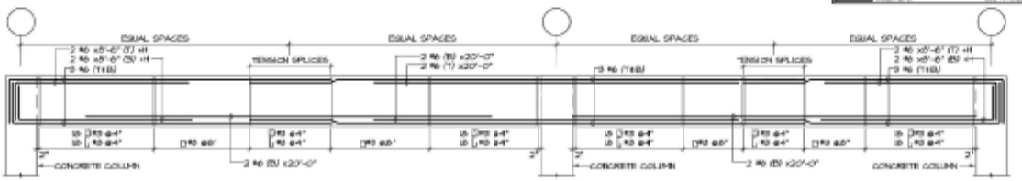


BEAM ELEVATION ONE SPAM



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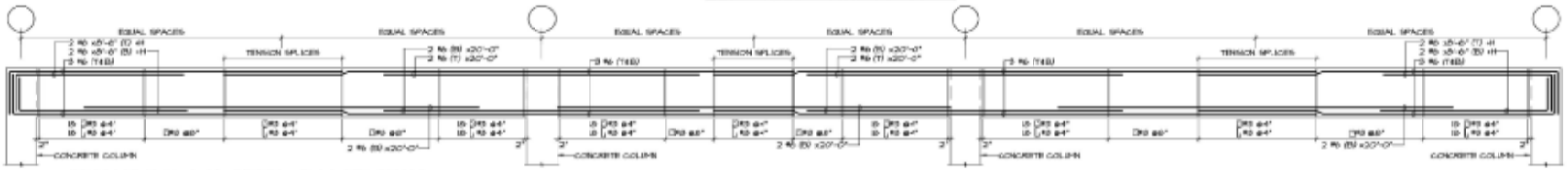


BEAM ELEVATION THREE OR MORE SPAM

PROJECT ADDRESS

ELDERLY SERVICE CENTER
CALLE FERROCARRIL #61 BO.
PUEBLO, LAJAS, P.R. 00667

GPS LATITUDE/LONGITUDE:
18.04041500, -67.05781230

OWNER

LAJAS MINICIPALITY

REVISION No.

J 5 8 - 0 3 2 - 0 7 2 - 0 1

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D

IMPORTANT NOTES TO THE CONTRACTOR:

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE PROCEEDING WITH WORK. IF ANY DISCREPANCIES, ERRORS OR OMISSIONS SHOULD BE ENCOUNTERS ON PLANS, CONTACT THE ENGINEER OF RECORD BEFORE PROCEEDING. ANY PART OF THE WORK IS STARTED THE SAME PROVES CONDITIONS AND WORKMANSHIP ACCEPTABLE. ALL DRAWINGS, SPECIFICATIONS AND COPIES THEREOF FURNISHED BY THE ENGINEER ARE AND SHALL REMAIN THE PROPERTY OF THE ENGINEER AND SHALL NOT BE USED ON ANY OTHER WORK AND ARE TO BE RETURNED TO THE ENGINEER ON REQUEST. ALL REPRODUCTIONS OF DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY THE ENGINEER AND SHALL BEAR THE COPYRIGHT NOTICE OF THE ENGINEER. THE CONTRACTOR SHALL NOT REMOVE THE COPYRIGHT NOTICE FROM ANY DRAWINGS OR SPECIFICATIONS. THE DRAWINGS AND SPECIFICATIONS ARE TO BE USED ONLY FOR THIS PROJECT AND SHALL NOT BE USED ON OTHER WORK EXCEPT BY AGREEMENT IN WRITING WITH THE ENGINEER. THESE RESTRICTIONS SHALL BE BINDING ON ALL SUBCONTRACTORS. THE CONTRACTOR SHALL NOT CHANGE OR ALTER THE DRAWINGS OR SPECIFICATIONS WITHOUT THE WRITTEN CONSENT OF THE ENGINEER. THE CONTRACTOR SHALL NOT USE THE DRAWINGS OR SPECIFICATIONS FOR ANY PURPOSE OTHER THAN THE CONSTRUCTION OF THE PROJECT WITHOUT THE PRIOR WRITTEN CONSENT OF THE ENGINEER. THE CONTRACTOR SHALL NOT ASSIGN, SUBLET OR TRANSFER HIS INTEREST IN THE DRAWINGS OR SPECIFICATIONS WITHOUT THE WRITTEN CONSENT OF THE ENGINEER. THE CONTRACTOR SHALL NOT CHANGE OR ALTER THE DRAWINGS OR SPECIFICATIONS WITHOUT THE WRITTEN CONSENT OF THE ENGINEER. THE CONTRACTOR SHALL NOT USE THE DRAWINGS OR SPECIFICATIONS FOR ANY PURPOSE OTHER THAN THE CONSTRUCTION OF THE PROJECT WITHOUT THE PRIOR WRITTEN CONSENT OF THE ENGINEER. THE CONTRACTOR SHALL NOT ASSIGN, SUBLET OR TRANSFER HIS INTEREST IN THE DRAWINGS OR SPECIFICATIONS WITHOUT THE WRITTEN CONSENT OF THE ENGINEER.

I, WILLIAM MELENDEZ RIVAL, LIC. NUM. [illegible], CERTIFY THAT I AM THE PROFESSIONAL WHO [illegible], DESIGNED OR PREPARED THESE PLANS AND THE SUPPLEMENTARY SPECIFICATIONS, AND DO HEREBY CERTIFY THAT THESE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE [illegible] OF THE [illegible] REGULATIONS AND THE APPLICABLE STANDARDS OF THE ROAD HOME AND BUILDING CODES AS [illegible] TO NECESSARY, WHERE ANY DEVIATIONS EXIST, THE PROFESSIONAL HAS NOTIFIED THE OWNER IN WRITING OF THE DEVIATIONS AND THE REASONS FOR THE DEVIATIONS. THESE PLANS AND SPECIFICATIONS HAVE BEEN PREPARED IN COMPLIANCE WITH THE PROVISIONS OF LAW 9—2004, AS AMENDED, KNOWN AS THE "LAW FOR STANDARDS BY PUBLIC WORKS AND PUBLIC WORKS", AND WITH RULE NO. XIII OF ACT 76, 1976, AS AMENDED, ACT NO. 33 OF JULY 8, 1978, AS AMENDED, AS APPLICABLE. I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRESENTED BY PROFESSIONAL OR ASSOCIATED ENTITIES AS WELL AS ANY ACTIVITY OR OMISSION OF THE PROFESSIONAL OR ASSOCIATED ENTITIES IN THE PERFORMANCE OF THE PROFESSIONAL'S DUTIES MAY BE GROUNDS FOR DISCIPLINARY ACTION BY THE OMPE.

ANIBAL SALGADO DIAZ, MSCE, P.E.
STRUCTURAL ENGINEER

SIGNATURE

ANIBAL SALGADO DIAZ
LICENSED
STRUCTURAL ENGINEER
PUERTO RICO

FILE

Dwg. Name: INGENIUM GROUP

Drawn by: K.V.P.

Revised by: A.S.D.

Plot Scale: AS SHOWN

Progress Print:

TITLE

ROOF DRAINAGE PLAN & BEAM ELEVATION

DRAWING No.

S-110

PAGE 55 / 71

PLUMBING GENERAL NOTES:

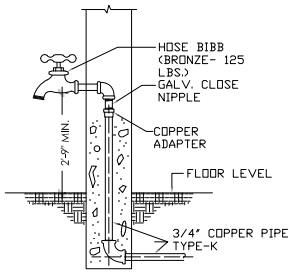
1. ALL PLUMBING WORK SHALL BE IN STRICT ACCORDANCE WITH THE DEPARTMENT OF HEALTH OF P.R., THE LOCAL BUILDING CODE, THE NATIONAL PLUMBING CODE (A.S.A. A 40 8-1955) AND THE SPECIFICATIONS ISSUED FOR THIS PROJECT.
2. CLEANOUTS SHALL BE OF THE SAME NOMINAL SIZE AS THE PIPE DIAMETER UP TO 4".
3. THE CONTRACTOR SHALL FURNISH AND SET IN PLACE BEFORE CONCRETE POURING ALL NECESSARY SLEEVES FOR WASTE OR SOIL, COLD WATER LINES. THESE SLEEVES SHALL BE AS PER THE SPECIFICATIONS.
4. THE PLUMBING CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF THE PIPING TO AVOID ANY INTERFERENCE WITH PIPING AND/OR EQUIPMENT BEING INSTALLED BY OTHER CONTRACTORS.
5. FOR FIXTURES AND/OR EQUIPMENT NOT LISTED IN THE SCHEDULE, SEE THE SPECIFICATIONS.
6. CLEANOUTS SHALL BE PLACED AS SHOWN ON DRAWINGS.
7. THE CONTRACTOR SHALL VERIFY IN FIELD ALL INVERT ELEVATIONS AND SHALL MAKE ANY NECESSARY ADJUSTMENT AS REQUIRED BY FIELD CONDITIONS AND AS REQUIRED, TO OBTAIN THE PROPER SLOPES.
8. IT IS THE INTENTION OF THE DRAWINGS TO CALL FOR FINISHED WORK, COMPLETE, TESTED AND READY FOR OPERATION. MINOR DETAILS NOT SHOWN OF SPECIFIED, BUT NECESSARY FOR THE PROPER INSTALLATION AND FOR FUNCTIONING AND OPERATION OF THE SYSTEM SHALL FROM PART OF THE WORK TO BE DONE BY THE CONTRACTOR.
9. BIDDERS SHALL VISIT THE SITE AND ACQUAINT THEMSELVES WITH THE CONDITIONS AS THEY ACTUALLY EXITS AND VERIFY DIMENSIONS, LOCATIONS AND DETAILS REQUIRED TO COMPLETE THE WORK. WHICH WILL BE THE ONLY OPPORTUNITY FOR POTENTIAL CONTRACTORS TO SEE THE SITE. FAILURE TO VISIT THE PROJECT AREA WILL IN NO WAY RELIEVE THE SUCCESSFUL BIDDER OF FURNISHING ALL MATERIAL AND PERFORMING ALL WORK REQUIRED FOR THE COMPLETION OF THE CONTRACT. VISITS TO THE PROJECT AREA SHALL BE ARRANGED THROUGH THE OWNER.
10. PROVIDE ACCESS FOR OPERATION AND MAINTENANCE TO EVERY PLUMBING VALVE. ACCESS SHALL BE AS REQUIRED BY ARCHITECT.
11. THE CONTRACTOR SHALL, WITHOUT EXTRA CHARGE, MAKE REASONABLE MODIFICATIONS IN THE LAYOUT, AS NEEDED, TO PREVENT CONFLICT WITH WORK OF OTHER TRADES OF FOR PROPER EXECUTION OF THE WORK.
12. CONTRACTOR SHALL LOCATE IN FULLY ACCESSIBLE POSITIONS ALL EQUIPMENT WHICH MUST BE SERVICED, OPERATED, OR MAINTAINED.
13. ALL UNDERGROUND COPPER PIPING SHALL BE TYPE "K", DIAMETER AS INDICATED.
14. ALL COPPER PIPING ABOVE FINISH FLOOR ELEVATION SHALL BE TYPE "L", DIAMETER AS INDICATED.
15. ALL WASTE, SANITARY AND STORM DRAINAGE LINES SHALL BE PVC SCH-40.
16. ALL PIPING SHALL BE CONCEALED IN FLOOR TOPPINGS, WALL OR CHASES UNLESS OTHERWISE NOTED.
17. LONG SWEEP BENDS OR LONG SWEEP FITTINGS SHALL BE PROVIDED AT THE BASE OF ALL STACKS.
18. CLEANOUTS SHALL NOT BE MORE THAN 100 FEET APART.
19. THE PLUMBING CONTRACTOR SHALL COORDINATE HIS/HER PORTION OF THE WORK WITH THE GENERAL CONTRACTOR AND SHALL PROVIDE SLEEVES AT SLABS OR BEAMS FOR PIPING LAYOUT AND FIXTURES INSTALLATION.
20. ALL FIXTURES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER SPECIFICATIONS.
21. SIZES SHOWN IN FIXTURES SCHEDULE ARE MINIMUM AND SHALL BE INCREASED AS NECESSARY TO COMPLY WITH CODE REQUIREMENTS OR AS SHOWN ON DRAWINGS.
22. SINGLE AND DOUBLE TEES AND QUARTER BENDS SHALL BE USED IN LINES ONLY WHERE THE DIRECTION OF FLOW IS FROM THE HORIZONTAL TO THE VERTICAL.
23. ALL HORIZONTAL PORTIONS OF SOIL STACKS AND BRANCHES SHALL HAVE MINIMUM SLOPE OF 1/4" PER FOOT FOR PIPES 3" DIAMETER OR LESS. 1/8" PER FOOT FOR PIPES 4" OR LARGER IN DIAMETER.
24. THE PLUMBING CONTRACTOR SHALL COORDINATE HIS/HER WORK IN ORDER TO AVOID ANY INTERFERENCE WITH THE WORK OF OTHER CONTRACTORS AND THE INSTALLATION OF FIXTURES AND OR EQUIPMENT BY OTHERS.
25. GATE VALVES LOCATED UNDERGROUND OR BELOW FLOOR SLABS SHALL BE INSTALLED WITHIN A CAST IRON OR CONCRETE BOX WITH 9 X 9 J.R. SMITH ACCESS COVER FIG. 4915-U.
26. PLUMBING CONTRACTOR SHALL PROVIDE ALL NECESSARY SERVICES AND/OR CONNECTIONS REQUIRED FOR THE PLUMBING FIXTURES AND/OR EQUIPMENT SHOWN ON THE FIXTURES PLANS.
27. PLUMBING CONTRACTOR SHALL PROVIDE ALL NECESSARY ROUGHING-IN AND SHALL INSTALL THE PLUMBING FIXTURES INDICATED ON THESE DRAWINGS.
28. WHENEVER REQUIRED OR NEEDED, THE PLUMBING CONTRACTOR SHALL PREPARE AND SUBMIT THE NECESSARY SHOP DRAWINGS FOR THE APPROVAL OF THE ARCHITECT.
29. 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 FOR REVISION AND/OR CLARIFICATION.
30. FIXTURES, FITTINGS, ACCESSORIES, MATERIAL AND ALL PLUMBING PRODUCTS SHALL BE AS PER SPECIFICATIONS ON THESE DRAWINGS AND CONTRACT SPECIFICATIONS. EQUAL OR SIMILAR SHALL BE ONLY ACCEPTED IF PREVIOUSLY APPROVED BY THE ARCHITECT.

GENERAL PLUMBING NOTES & SYMBOLS

SCALE: NOT TO SCALE

PIPES SPECIFICATIONS:

LOCATION	PIPES	SPECIFICATION
LOW EARTH WATER TUBING	FLEXIBLE COPPER TIP. "K" COLD STRETCHED	ASTM B-88
WATER TUBING ON EARTH OR EXPOSED	FLEXIBLE COOPER TIPO "L" COLD STRETCHED	ASTM B-88
SANITARY PIPE OUTSIDE THE BUILDING	P.V.C. SCHEDULE 40	ASTM D- 2665
SANITARY PIPE INSIDE THE BUILDING	P.V.C. SCHEDULE 40	ASTM D- 2665
VENTILATION PIPING	P.V.C. SCHEDULE 40	ASTM D- 2665



PLUMBING NOTES:

1. FOR FIXTURE SPECS. CONTRACTOR SHALL COORDINATE WITH THE OWNER.
2. COLD WATER PIPING SHALL BE 3/4" COPPER TYPE "L".
3. COLD WATER PIPING WITHIN STRUCTURE ABOVE GROUND, SHALL BE COPPER TYPE "L" RIGID.
4. ALL VENT LINES WITHIN THE STRUCTURE, SHALL BE P.V.C. SCHEDULE 40. EXCEPT OTHERWISE INDICATED.
5. ALL PIPING SHALL BE CONCEALED IN FLOOR TOPING, SLABS, WALLS OR CHASES UNLESS OTHERWISE INDICATED.
6. LONG SWEEP BENDS OR LONG SWEEP FITTINGS SHALL BE PROVIDED AT THE BASE OF ALL STACKS.
7. CLEAN OUTS NOT MORE THAN 50'-0" APART SHALL BE PROVIDED ON ALL SANITARY LINES.
8. THE PLUMBING CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR FOR LEAVING SLEEVES AT SLABS OR BEAMS FOR PIPING LAYOUT AND FIXTURE INSTALLATIONS.
9. ALL FIXTURES SHALL BE INSTALLED IN ACCORDANCE TO THE MANUFACTURER'S SPECIFICATIONS.
10. THE PLUMBING WORK SHALL BE IN ACCORDANCE WITH THE LATEST LOCAL BUILDING CODE. THE NATIONAL PLUMBING CODE, THE P.R. HEALTH DEPARTMENT AND THE SPECIFICATIONS ISSUED FOR THIS PROJECT.
11. SIZES SHOWN IN FIXTURE SCHEDULE ARE MINIMUM AND SHALL BE INCREASED AS NECESSARY TO COMPLY WITH CODES REQUIREMENTS OR AS SHOWN IN DRAWINGS.
12. ALL VALVES NOT EXPOSED SHALL BE PROVIDED WITH ACCESS IN THE WALL OR FLOOR FOR OPERATION AND MAINTENANCE ACCESS DOOR, SHALL BE AS SPECIFIED OR REQUIRED BY THE ENGINEER.
13. SINGLE AND DOUBLE TEES AND QUARTER BENDS SHALL BE USED IN DRAINAGE LINES ONLY WHERE THE DIRECTION OF FLOW IS FROM THE HORIZONTAL TO THE VERTICAL.
14. THE PLUMBING CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF THE PIPING TO AVOID INTERFERENCE WITH PIPING AND/OR EQUIPMENT BEING INSTALLED BY THE GENERAL CONTRACTOR.

IMPORTANT NOTE:

ANY SPECIFIED FIXTURES OR FURNITURE MUST BE EQUAL OR SIMILAR AND SHOULDN'T BE BRAND SPECIFIC. ANY SPECIFIED BRAND IS ONLY FOR CONTRACTOR'S CONVENIENCE AND SHOULDN'T BE INTERPRETED AS THE ONLY CHOICES. CONTRACTOR MUST SENT SUBMITTALS FOR FINAL APPROVAL.

PROJECT ADDRESS

PR-CRP-0092 ELDERLY SERVICE CENTER, CALLE FERROCARRIL #11 BO. PUEBLO, LAJAS, P.R. 00667.

GPS LATITUDE/LONGITUDE: 18.04941608, -67.05761236

OWNER

LAJAS MUNICIPALITY

REGISTER No.

358-032-072-01

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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IMPORTANT NOTES TO THE CONTRACTOR:

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE PROCEEDING WITH WORK. IF ANY DISCREPANCIES, ERRORS OR OMISSIONS SHOULD BE ENCOUNTERED ON PLANS, CONTRACTOR SHALL NOTIFY THE ENGINEER BEFORE ANY PART OF THE WORK IS STARTED SO THAT PROPER CORRECTIONS ARE MADE. IF ENGINEER IS NOT NOTIFIED PRIOR TO COMMENCING OF THE WORK, ALL DESIGNS AND DRAWINGS HEREIN AND PRINTS ISSUED BY THE ENGINEER ARE THE PROPERTY OF THE ENGINEER AND SHALL NOT BE REUSED ON ANY OTHER LOCATION EXCEPT THE ONE FOR WHICH THEY EXPRESSLY DESIGNED. IF THESE DRAWINGS OR ANY PART THEREOF IS REPRODUCED WITHOUT THE CONSENT OF THE ENGINEER, THE PERSON WHO IS DOING WILL BE INDEBTED TO THE ENGINEER FOR HIS FULL COMMISSION. CONTRACTOR SHALL NOT USE FOR CONSTRUCTION PURPOSES ANY DRAWINGS THAT WERE ADVANCE TO HIM PRIOR TO THE BEGINNING OF CONSTRUCTION. ALL PLANS BEING USED BY CONTRACTOR SHOULD HAVE A LABEL SAYING "FOR CONSTRUCTION ONLY" SIGNED AND SEALED BY THE ENGINEER.

CERTIFICATION

I, WILLIAM MELENDEZ RIVAS, LIC. 16,868, CERTIFY THAT I AM THE PROFESSIONAL WHO MADE, DESIGNED OR PREPARED THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 14-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY" AND WITH THE (LAW NO. 319 OF MAY 15, 1938, AS AMENDED; ACT NO. 96 OF JULY 6, 1978, AS AMENDED; AS APPLICABLE). I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY IGNORANCE OR NEGLIGENCE EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE OOPC.

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SIGNATURE

FILE

Dwg Name: INGENIUM GROUP

Drawn by: INGENIUM GROUP

Revised by: ING. WILLIAM MELENDEZ

Plot Scale: AS SHOWN

Progress Print:

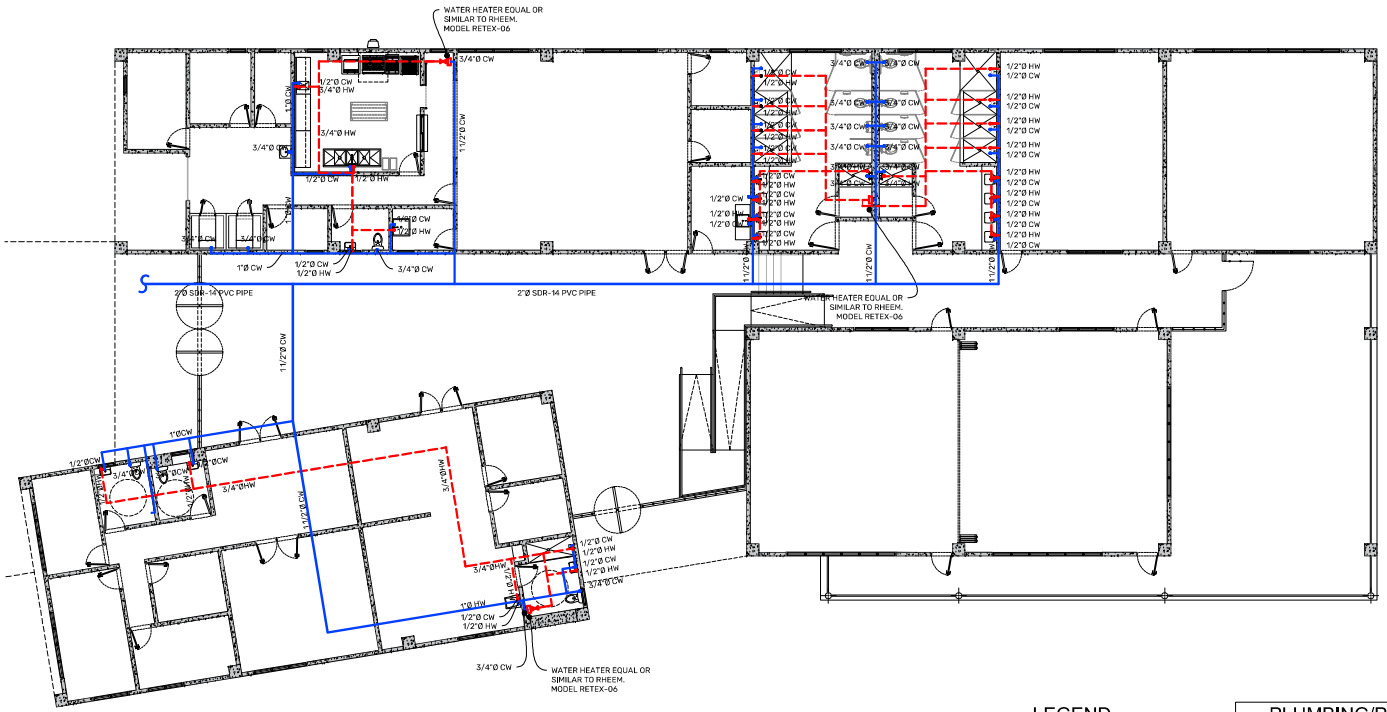
TITLE

GENERAL PLUMBING NOTES

DRAWING No.

P100

P R O P O S E D W A T E R D I S T R I B U T I O N P L A N



PROPOSED WATER DISTRIBUTION PLAN

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

LEGEND

	COLD WATER LINE
	COLD WATER LINE
HW	HOT WATER
CW	COLD WATER
WCO	WALL CLEAN OUT
GCO	GROUND CLEAN OUT
FD	FLOOR DRAIN
	HOSE BIBB
	GATE VALVE
	WATER METER

PLUMBING/PIPING NOTES

1. ALL PLUMBING ACTIVITIES WILL BE DONE FOLLOWING THE HEALTH DEPARTMENT REGULATIONS, LOCAL UPDATED CODE, THE NATIONAL PLUMBING CODE AND SPECIFICATIONS.

2. THE SITE SPECIFIED ON THE TABLE FOR ALL SANITARY DEVICES ARE THE MINIMUM, IF NECESSARY THEY WILL BE ENLARGED TO COMPLY WITH CODE OR LOW IT SHOULD BE SPECIFIED IN CONTRACT.

3. ALL SANITARY HORIZONTAL LINES WILL HAVE A MINIMUM SLOPE OF 1/8" PER FOOT.

4. THE CONTRACTOR WILL SUPPLY ALL MATERIALS, PIPES AND PARTS REQUIRED FOR A COMPLETE AND APPROVED INSTALLATION. ALL PLUMBING SYSTEMS WILL BE IN PERFECT WORKING CONDITIONS BY THE END OF THE JOB. THE CONTRACTOR IS RESPONSIBLE FOR ALL PERMITTING NECESSARY AND REQUIRED BY "LA AUTORIDAD DE ACUEDUCTOS OF P.R." AND OTHER AGENCIES CONCERNED INCLUDING THE CITY, BEFORE AND AFTER THE WORK IN DONE SO THAT ALL INSPECTIONS ARE DONE FOR THE AGENCIES INVOLVED.

5. THE CONTRACTOR WILL DETERMINE THE EXACT LOCATION OF ALL PIPES TO AVOID INTERFERENCE WITH OTHER PIPES OR ACTIVITIES DONE BY OTHER SUB- CONTRACTORS.

6. LONG CURVES WILL BE INSTALLED IN THE BASES OF WALL VERTICAL ASSEMBLIES (MUÑECOS).

7. THE CONTRACTOR WILL OBTAIN THE EXISTING HYDROSTATIC PRESSURES READINGS FOR THE SITE AND WILL NOTIFY THE OWNER AND ARCHITECT

8. ALL WATER DISTRIBUTION SYSTEMS WILL HAVE INDEPENDENT GATE VALVES WITH BOX AND LID.

9. ALL WATER LINES WILL MAINTAIN A MINIMUM DISTANCE OF 1'-0" FROM OTHER SANITARY LINES.

10. ALL GATE VALVES, WALLS AND FLOORS WILL LAVE ACCESS FOR MAINTENANCE AND WILL HAVE BOXES WILL ACCESS DOORS, WHAT EVEN SITE APPLIES.

11. ALL PIPES WILL BE HUNG WITH THE ADEQUATE SUPPORTS ALL SUPPORTS. WILL BE INSTALLED AT A MAXIMUM OF 8'-0" FOR LIVES UP TO 4" IN DIAMETER.

12. CLEAN OUTS WILL BE PROVIDED AT A MINIMUM DISTANCE OF 50' OR OTHERWISE SPECIFIED IN THE BLUEPRINTS.

13. ALL THE MATERIAL USED AND INSTALLED WILL BE NEW.

PROJECT ADDRESS

PR-CRP-0092 ELDERLY SERVICE CENTER. CALLE FERROCARRIL #11 BO. PUEBLO, LAJAS, P.R. 00667.

GPS LATITUDE/LONGITUDE: 18.04941608, -67.05761236

OWNER

LAJAS MUNICIPALITY

REGISTER No.

358-032-072-01

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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SIGNATURE

William Meléndez Rivas, Licensed Engineer, Puerto Rico

FILE

Dwg Name: INGENIUM GROUP

Drawn by: INGENIUM GROUP

Revised by: ING. WILLIAM MELENDEZ

Plot Scale: AS SHOWN

Progress Print:

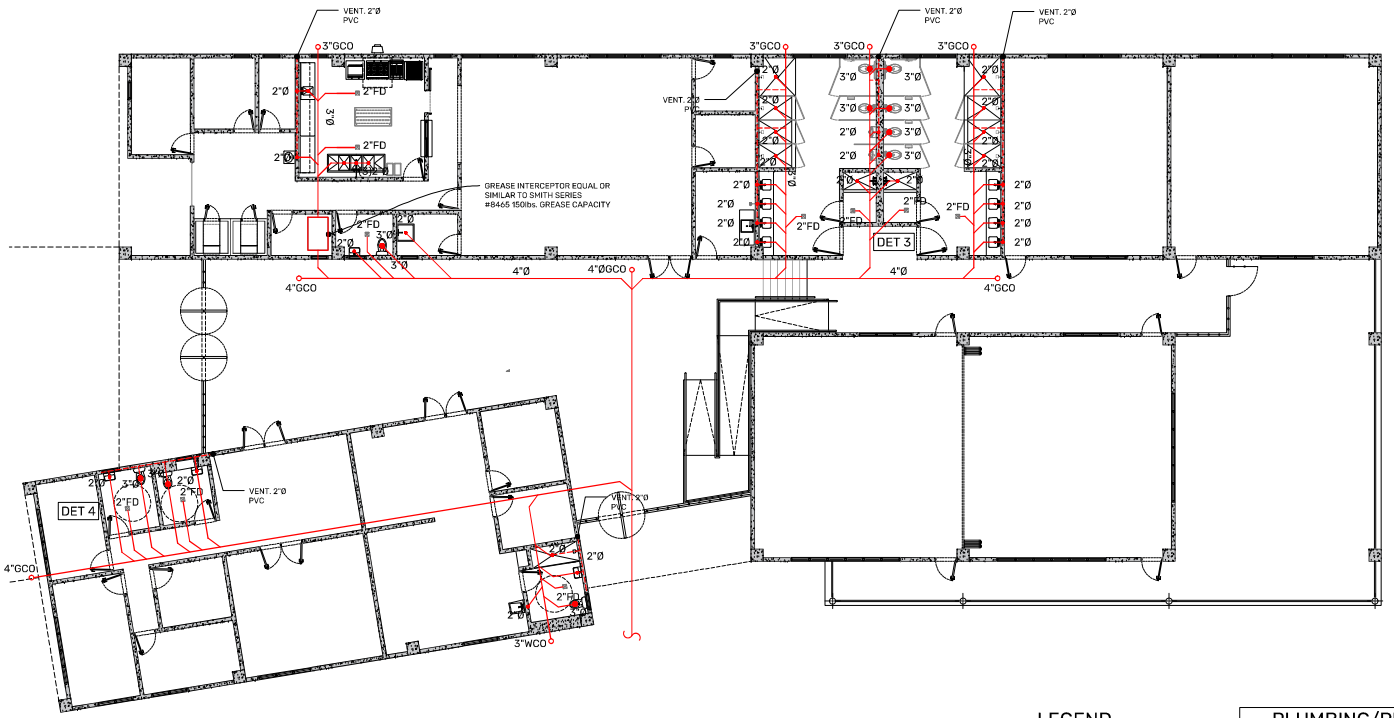
TITLE

PROPOSED WATER DISTRIBUTION PLAN

DRAWING No.

P101

P R O P O S E D S A N I T A R Y P L A N



LEGEND

	SANITARY LINE
CW	COLD WATER
WCO	WALL CLEAN OUT
GCO	GROUND CLEAN OUT
FD	FLOOR DRAIN
HB	HOSE BIBB
	GATE VALVE
	WATER METER

PLUMBING/PIPING NOTES

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7. THE CONTRACTOR WILL OBTAIN THE EXISTING HYDROSTATIC PRESSURES READINGS FOR THE SITE AND WILL NOTIFY THE OWNER AND ARCHITECT

8. ALL WATER DISTRIBUTION SYSTEMS WILL HAVE INDEPENDENT GATE VALVES WITH BOX AND LID.

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1 PROPOSED SANITARY PLAN
SCALE: 1/8"= 1'-0"

PROJECT ADDRESS
PR-CRP-0092 ELDERLY SERVICE CENTER, CALLE FERROCARRIL #11 BO. PUEBLO, LAJAS, P.R. 00667.

GPS LATITUDE/LONGITUDE: 18.04941608, -67.05761236

OWNER
LAJAS MUNICIPALITY

REGISTER No.
358-032-072-01

REVISIONS

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SIGNATURE
William Melendez Rivas, Lic. 16383, Puerto Rico

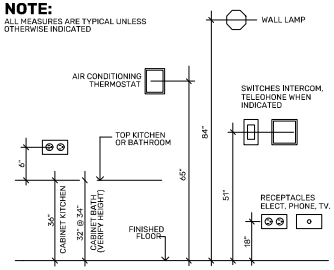
FILE
Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
PROPOSED SANITARY PLAN

DRAWING No.
P102

E L E C T R I C A L N O T E S & S Y M B O L S

NOTE:
ALL MEASURES ARE TYPICAL UNLESS OTHERWISE INDICATED



ELECTRICAL LEGEND:

- SINGLE SWITCH GROUNDING TYPE 14 AMPS. 120/277 VOLTS. 4 INCH BOX WITH RAISER COVER CAT. NO. 770 RACO OR SIMILAR, 48" A.F.F. LETTER INDICATES OUTLET TO BE CONTROLLED, 48" A.F.F
- SAME AS ABOVE EXCEPT DUPLEX LETTER INDICATES OUTLET TO BE CONTROLLED.
- DUPLEX GROUNDING CONV. RECEPTACLE 15 AMPS, 125 VOLTS, 4 INCH SQ. BOX WITH RAISER COVER CAT. NO. 770 RACO OR SIMILAR 18" A.F.F
- DUPLEX GROUNDING CONV. RECEPTACLE 20 AMPS, 125 VOLTS, 4 INCH SQ. BOX WITH RAISER COVER CAT. NO. 770 RACO OR SIMILAR 48" A.F.F
- DUPLEX GROUNDING CONV. RECEPTACLE 15 AMPS, 125 VOLTS, 4 INCH SQ. BOX WITH RAISER COVER CAT. NO. 770 RACO OR SIMILAR 42" A.F.F
- SINGLE GROUNDING CONV. RECEPTACLE FOR REFRIGERATOR [20A-125V]
- KITCHEN HOOD POINT OF CONNECTION [20A-125V @ CEILING]
- SINGLE GROUNDING CONV. RECEPTACLE FOR MICROWAVE OVEN [20A-125V]
- DOUBLE GROUND FAULT INTERRUPTED OUTLET WITH WATER PROOF COVER AND ANTI-ELECTROCUTION [20A-125V @ 18"]
- RECEPTACLE 30 AMPS, 2 POLES 120/240 VOLT. FOR WASHER AND DRYER WITH BT. [@18" A.F.F.]
- RECEPTACLE 30 AMPS, 2 POLES 120/240 VOLT. FOR HEATER WITH BT. [@18" A.F.F.]
- STAINLESS STEEL CEILING FAN 72". OUTLET PUDDLE FAN LISTED JUNCTION BOX.
- PB-# NEW PANEL BOARD TO BE INSTALLED
- EMERGENCY LIGHT 4 INCH OCTAGONAL BOX
- EX2 OUTLOOK SERIE, EX2-1-R-3-SC-C-SD2T-A

FIRE ALARM GENERAL NOTES:

1. THE FIRE ALARM SYSTEM INSTALLATION SHALL COMPLY WITH NATIONAL FIRE ALARM AND SIGNALING CODE (NFPA 72 LASTED EDITION) AND PUERTO RICO'S FIRE DEPARTMENT REGULATIONS.
2. MAIN FIRE ALARM PANEL WILL BE INSTALLED IN THE ELECTRICAL ROOM.
3. ALL FIRE ALARM DEVICES SHALL BE ADDRESSABLE AND PROVIDED WITH VANDAL PROTECTION COVERS.
4. CONTRACTOR SHALL VERIFY AND TEST ENTIRE FIRE ALARM SYSTEM.
5. CONTRACTOR SHALL PROVIDE NEW FIRE ALARM EQUIPMENT. UL LISTING.
6. DETECTORS SHALL NOT BE INSTALLED UNTIL THE FINAL CLEANING IS COMPLETED.
7. FIRE ALARM PANEL - SLC OPERATES UP TO 10,000 FT. WITH TWISTED, SHIELED WIRE OR 3,000 FT. WITH UN TEWISTED, UNSHIELDED WIRE.

FIRE ALARM SYMBOLS LEGEND

SYM.	DECRIPTION	MOUNTING HEIGHT
FPA	FIRE ALARM CONTROL PANEL EQUAL OR SIMILAR TO FIRE LITE ALARMS, MODEL MS-9600, BY HONEYWELL	CENTER AT 48" A.F.F.
SD	SMOKE DETECTOR - LOW PROFILE PLUG IN PHOTOELECTRIC SMOKE DETECTOR, CEILING MOUNTED EQUAL OR SIMILAR TO FIRE LITE ALARMS, MODEL 5806WB, BY HONEYWELL.	CEILING
HD	HEAT DETECTOR - MECHANICAL HEAT DETECTOR, CEILING MOUNTED EQUAL OR SIMILAR TO FIRE LITE ALARMS, MODEL 5809 SERIES, BY HONEYWELL	CEILING
	STROBE HORN - INDOOR SPEAKER/STORBE, WALL MOUNTED EQUAL OR SIMILAR TO FIRE LITE ALARM, MODEL SPSW(R)(W)(A), BY HONEYWELL	6" BELOW ACUSTIC
	PULL STATION / STROBE HORN - MANUAL FIRE ALARM PULL STATION, WALL MOUNTED EQUAL OR SIMILAR TO FIRE LITE ALARM, MODEL BG-12LX, BY HONEYWELL AND STROBE HORN AS PREVIOUSLY DESCRIBE.	48" A.F.F.
	EXIT SIGN ROYAL PACIFIC LTG, RXL-17 PW	

ELECTRICAL NOTES & SYMBOLS

SCALE: NOT TO SCALE

LIGHTING FIXTURES SCHEDULE

ID		DESCRIPTION	MOUNT TYPE	MANUFACTURER	MODEL	REMARK
L1		2FT ROUND LED PENDANT	PENDANT	ALCON LIGHTING	12201-QS-DD 35	
L2		EDGE LIT ARCHITECTURAL LED FLAT PANEL HIGH EFFICIENCY DIRECT TROFFER	SURFACE	ALCON LIGHTING	14028	
L3		EDGE LIT ARCHITECTURAL LED FLAT PANEL HIGH EFFICIENCY DIRECT TROFFER	PANEL RECESSED	ALCON LIGHTING	14028	
L4		50" AEON ARCHITECTURAL LINEAR FLOURESCENT LIGHT FIXTURE WITH LAMP	SURFACE	ALCON LIGHTING	6024	
L5		ROUND DRUM CLOUD LED LIGHT FIXTURE	SURFACE	ALCON LIGHTING	12208	
L6		ARCHITECTURAL 4 INCH CYLINDER LED LIGHT AND DOWN LIGHT	WALL MOUNTED	ALCON LIGHTING	11240-2	
L7		735 LUMENS 4000K CONTINIUM 20 SERIES PENDANT (25'-0") WITH FINISH MATTE	PENDANT	ALCON LIGHTING	12100 20-P	
L8		735 LUMENS 4000K CONTINIUM 20 SERIES PENDANT (20'-0") WITH FINISH MATTE	SURFACE	ALCON LIGHTING	12100 20-P	
L9		735 LUMENS 4000K CONTINIUM 20 SERIES PENDANT (15'-0") WITH FINISH MATTE	SURFACE	ALCON LIGHTING	12100 20-P	
L10		ARCHITECTURAL EDGE LIT LED FLAT PANEL LIGHT	SURFACE	ALCON LIGHTING	14052	

IMPORTANT NOTE:

- ANY SPECIFIED FIXTURES OR FURNITURE MUST BE EQUAL OR SIMILAR AND SHOULDN'T BE BRAND SPECIFIC. ANY SPECIFIED BRAND IS ONLY FOR CONTRACTOR'S CONVENIENCE AND SHOULDN'T BE INTERPRETED AS THE ONLY CHOICES. CONTRACTOR MUST SUBMIT SHOP DRAWINGS OF FIXTURES AND/OR FURNITURE TO BE USED.

ELECTRICAL GENERAL NOTES

1. UNLESS OTHERWISE INDICATED ALL WIRES AND CABLES SHALL BE #12 AWG.
2. UP TO #10 AWG USE WIRE, ALL LARGER SIZES BE CABLE.
3. ALL WIRE SHALL BE 600 VOLTS INSULATION THWN - STRANDED WIRES.
4. UNLESS OTHERWISE INDICATED, ALL WIRES AND CABLES SHALL BE COPPER.
5. PROVIDE GROUND WIRE IN ALL THE CONDUITS THAT ARE INDICATED TO BE PVC. SCHEDULE 40.
6. PROVIDE #12 AWG GREEN JUMPER BETWEEN RECEPTACLE GROUNDING SCREW AND OUTLET BOX GROUNDING SCREW.
7. UNLESS OTHERWISE INDICATED (IN THE PANELBOARD) ALL CONDUITS SHALL BE EMT PER CEILING, FOR UNDERGROUND, CONCRETE SLAB, AND WALL CONDUIT USE PVC SCHEDULE 40.
8. UNLESS OTHERWISE INDICATED ALL CONDUITS SHALL BE 3/4" DIAMETER MINIMUM.
9. ALL UNDERGROUND CONDUIT COUPLINGS SHALL BE WATERTIGHT.
10. PROVIDE EXPANSION JOINT COUPLINGS OF THE REQUIRED TYPE AND SIZE WHENEVER A CONDUIT CROSSES AN EXPANSION JOINT.
11. PROVIDE CONDUIT PLASTIC DIVIDERS IN ALL UNDERGROUND CONDUIT RUNS.MAXIMUM DISTANCE BETWEEN DIVIDERS TO BE 4'-0".
12. CONTRACTOR MUST MAKE SURE THAT THE ENTIRE ELECTRICAL SYSTEM HAS GROUND CONTINUITY.
13. ALL THE ELECTRICAL INSTALLATION SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER, ACCORDING TO THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, THE PUERTO RICO ELECTRICAL POWER AUTHORITY LATEST STANDARDS AND PUERTO RICO TELEPHONE COMPANY OR COMMUNICATIONS AUTHORITY LATEST PRACTICES.
14. ALL OUTLETS SHALL HAVE ITS OWN INDEPENDENT OUTLET BOX MINIMUM SIZE OF OUTLET BOX TO BE 4" SQUARE BY 1 1/2" DEEP EXACT SIZE OF OUTLET BOX TO BE DETERMINED ACCORDING TO THE MAXIMUM NUMBER OF CONDUCTORS IN THE BOX PER N.E.C. ARTICLE 370-SECTION 16.
15. THE CONTRACTOR SHALL VISIT THE JOB SITE AND BECOME ACQUAINTED WITH THE EXISTING FIELD CONDITIONS. IF SHALL BE THE DIRECT RESPONSIBILITY OF THE CONTRACTOR TO BRING PROMPTLY TO THE ATTENTION OF THE ENGINEER ANY DISCREPANCIES BETWEEN THE EXISTING FIELD CONDITIONS AND THOSE THAT WERE USED FOR DESIGN PURPOSE. THIS SHALL BE DONE BEFORE THE CONTRACTOR SUBMITS HIS BID, SO THAT THE ENGINEER CAN RENDER A DECISION ON THE MATTER BEFORE THE BIDS ARE RECEIVED. THE SUBMITTAL OF THE BID BY THE CONTRACTOR WILL BE HELD AS PROOF THAT THE CONTRACTOR UNDERSTANDS THOROUGHLY AND COMPLETELY AS THE SCOPE THE WORK INVOLVED, HAS FAMILIARIZED HIMSELF WITH THE EXISTING FIELD CONDITIONS AND HAS INCLUDED ON HIS ALL THE NECESSARY ITEMS TO CARRY OUR THE ELECTRICAL WORK. NO ALLOWANCE WILL BE PERMITTED ON THIS MATTER AFTER THE BIDS ARE RECEIVED.
16. ALL SWITCHES AND RECEPTACLE SHALL BE IVORY COLORED WITH IVORY BAKELITE PLATES.
17. THE DIMENSIONS OF THE ELECTRICAL CABINET WILL BE SUBJECT TO THE RULES AND REGULATIONS OF PREPA.
18. PROVIDE ELECTRICAL 6" WIDE YELLOW IDENTITY TAPE FOR UNDERGROUND CABLES THE TAPE SHALL BE PERMANENTLY PRINTED WITH CONTINUOS BLACK LETTERS 1"1/4"X5/8" WITH THE WORDS "PELIGRO-PELIGRO-PELIGRO" ON THE EDITION.
19. PROVIDE #10 WIRE ON ALL 20 AMP CIRCUIT 75 FEET OR LONGER, UNLESS OTHERWISE INDICATED.
20. ALL PANELS SWITCHES, STARTERS, CONTROL DEVICES AND MIOS ELECTRICAL APPARATUS SHALL BE CLEARLY MARKED WITH ENGRAVED PLASTIC NAMEPLATES FOR EASY IDENTIFICATION AND SAFETY. ALL PANELBOARD CIRCUITS SHALL BE PROPERLY IDENTIFIED WITH TYPE WRITTEN PLASTIC PROTECTED DIRECTORIES ON SUITABLE CARDS WHICH SHALL BE MOUNTED INTO CORRESPONDING PANELBOARD DOORS.
21. FURNISHED AND INSTALL ALL TELEPHONE CONDUITS AS SHOWN ON DRAWINGS. PROVIDE PULL STING IN ALL CONDUITS (FISH WIRE).
22. CONTRACTOR SHALL BALANCE ALL LOADS.
23. ALL EXPOSED CONDUIT SHALL BE RIGID GALVANIZED STEEL.
24. ALL PANELS, METERS, SAFETY SWITCHES, ETC., SHALL BE LA BELED SO AS TO IDENTIFY THEIR USE AND VOLTAGE, IN AN ACCEPTED AND APPROVED MANNER.
25. USE "LIQUID TIGHT" FLEXIBLE MATALIC CONDUIT FOR ALL MOTOR AND/ OR GENERATOR CONNECTION.
26. EXPANSION FITTINGS SHALL BE USED FOR EVERY CONDUIT CROSSING BUILDING EXPANSION JOINTS.

IMPORTANT NOTES

1. ALL ELECTRICAL SMOKE DETECTOR SHALL BE TANDEN CIRCUIT CONNECTION (PLUG TAP) AT EACH SPACE. (WIRING PER MANUF. SPECS.)
2. EMERGENCY (EM) LUMINARIES SHALL BE CIRCUITED WITH AN "UNSWITCHED HOT" TO PROVIDE CONTINUOUS POWER TO BATTERY PACK EVEN WHEN LUMINARIES IS OFF.
3. EXIT LIGHTS AND EMERGENCY LIGHTS AT DOORS SHALL BE CEILING MOUNTED AND CENTERED ABOVE DOOR.
4. LIGHTING CIRCUITS UP TO 100' IN LENGTH SHALL UTILIZE #12 CONDUCTORS MINIMUM. LIGHTING CIRCUITS FROM 101' TO 150' UTILIZE #10 CONDUCTORS MINIMUM. LIGHTING CIRCUITS FROM 151' TO 250' UTILIZE #8 CONDUCTORS MINIMUM. LIGHTING CIRCUITS ABOVE 251' LENGTH SHALL UTILIZE #6CONDUCTORS MINIMUM.

PROJECT ADDRESS
PR-CRP-0092 ELDERLY SERVICE CENTER, CALLE FERROCARRIL #11 BO. PUEBLO, LAJAS, P.R. 00667.

GPS LATITUDE/LONGITUDE: 18.04941608, -67.05751236

OWNER
LAJAS MUNICIPALITY

REGISTER No.
358-032-072-01

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D

IMPORTANT NOTES TO THE CONTRACTOR:
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CERTIFICATION
I, WILLIAM MELENDEZ RIVAS, LIC. 16388, CERTIFY THAT I AM THE PROFESSIONAL WHO MADE, DESIGNED OR PREPARED THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 14-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY" AND WITH THE LAW NO. 319 OF MAY 15, 1938, AS AMENDED; ACT NO. 96 OF JULY 6, 1976, AS AMENDED; AS APPLICABLE). I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY IGNORANCE OR NEGLIGENCE EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE OOPE.

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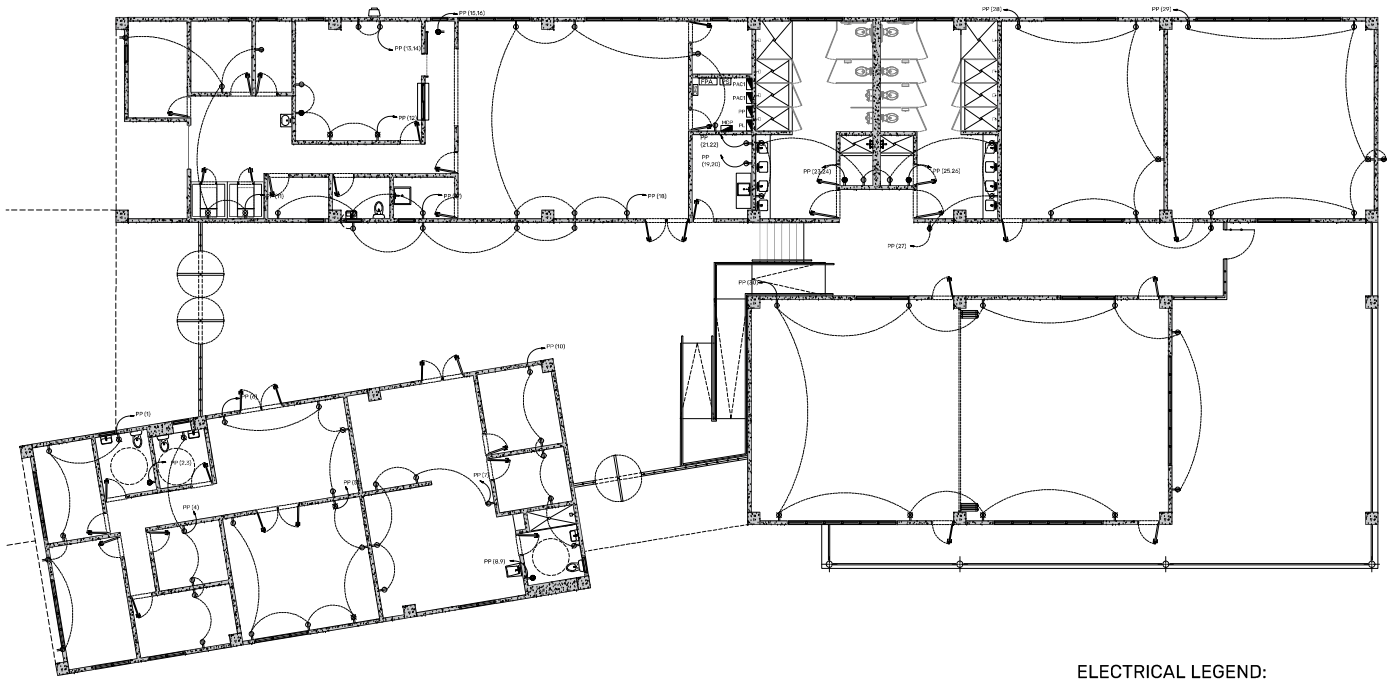
SIGNATURE
William Melendez Rivas, Lic. 16388, Puerto Rico

FILE
Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
ELECTRICAL NOTES & SYMBOLS

DRAWING No.
E100

E L E C T R I C A L P O W E R D I S T R I B U T I O N P L A N



ELECTRICAL LEGEND:

- SINGLE SWITCH GROUNDING TYPE 14 AMPS. 120/277 VOLTS, 4 INCH BOX WITH RAISER COVER CAT. NO. 770 RACO OR SIMILAR, 48" A.F.F. LETTER INDICATES OUTLET TO BE CONTROLLED, 48" A.F.F
- SAME AS ABOVE EXCEPT DUPLEX LETTER INDICATES OUTLET TO BE CONTROLLED.
- DUPLEX GROUNDING CONV. RECEPTACLE 15 AMPS, 125 VOLTS, 4 INCH SQ. BOX WITH RAISER COVER CAT. NO. 770 RACO OR SIMILAR 18" A.F.F
- DUPLEX GROUNDING CONV. RECEPTACLE 20 AMPS, 125 VOLTS, 4 INCH SQ. BOX WITH RAISER COVER CAT. NO. 770 RACO OR SIMILAR 48" A.F.F
- DUPLEX GROUNDING CONV. RECEPTACLE 15 AMPS, 125 VOLTS, 4 INCH SQ. BOX WITH RAISER COVER CAT. NO. 770 RACO OR SIMILAR 42" A.F.F
- SINGLE GROUNDING CONV. RECEPTACLE FOR REFRIGERATOR [20A-125V]
- KITCHEN HOOD POINT OF CONNECTION [20A-125V @ CEILING]
- SINGLE GROUNDING CONV. RECEPTACLE FOR MICROWAVE OVEN [20A-125V]
- DOUBLE GROUND FAULT INTERRUPTED OUTLET WITH WATER PROOF COVER AND ANTI-ELECTROCUTION [20A-125V @ 18"]
- RECEPTACLE 30 AMPS, 2 POLES 120/240 VOLT. FOR WASHER AND DRYER WITH BT. [@18" A.F.F.]
- RECEPTACLE 30 AMPS, 2 POLES 120/240 VOLT. FOR HEATER WITH BT. [@18" A.F.F.]
- STAINLESS STEEL CEILING FAN 72". OUTLET PUDDLE FAN LISTED JUNCTION BOX.
- PB-# NEW PANEL BOARD TO BE INSTALLED
- EMERGENCY LIGHT 4 INCH OCTAGONAL BOX

EX2 OUTLOOK SERIE, EX2-1-R-3-SC-C-SD2T-A

ELECTRICAL POWER DISTRIBUTION PLAN

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

PROJECT ADDRESS

PR-CRP-0092 ELDERLY SERVICE CENTER, CALLE FERROCARRIL #11 BO. PUEBLO, LAJAS, P.R. 00667.

GPS LATITUDE/LONGITUDE: 18.04941608, -67.05751236

OWNER

LAJAS MUNICIPALITY

REGISTER No.

358-032-072-01

REVISIONS

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CERTIFICATION

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SIGNATURE

William Melendez Rivas, Puerto Rico

FILE

Dwg Name: INGENIUM GROUP

Drawn by: INGENIUM GROUP

Revised by: ING. WILLIAM MELENDEZ

Plot Scale: AS SHOWN

Progress Print:

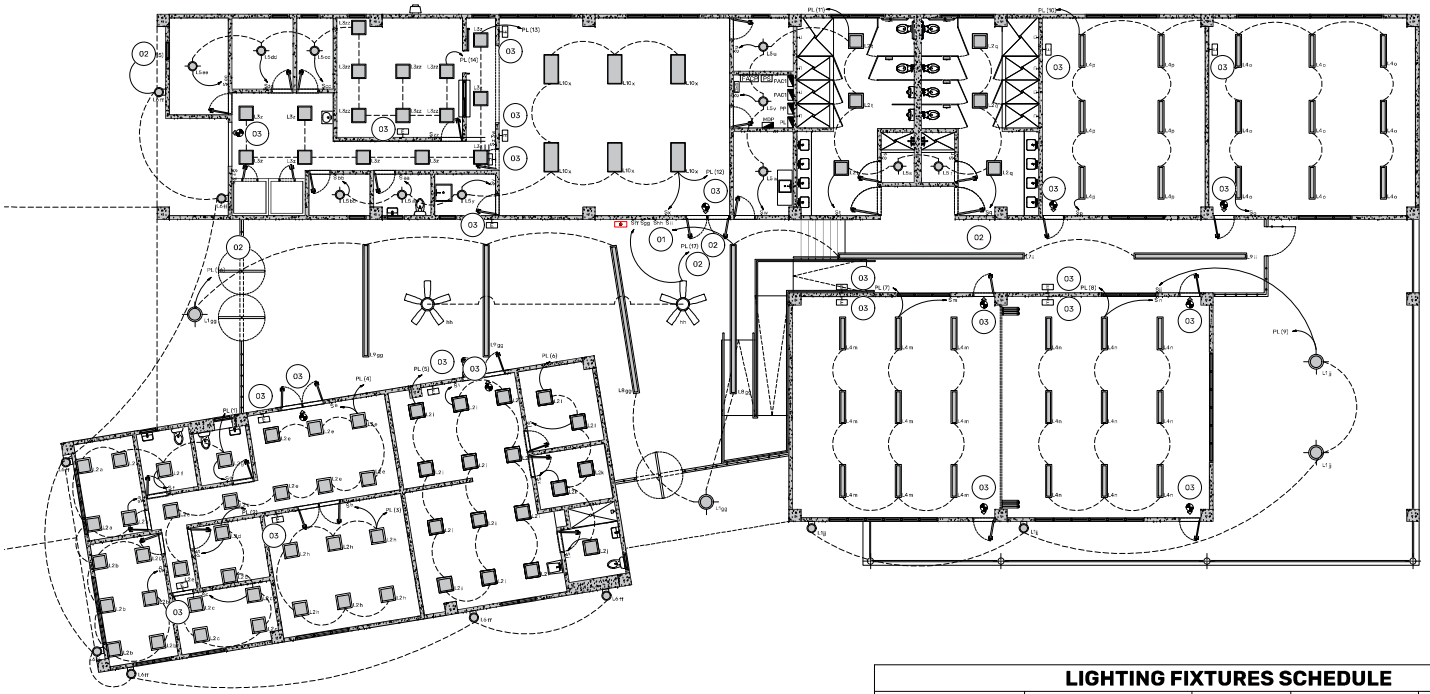
TITLE

ELECTRICAL POWER DISTRIBUTION PLAN

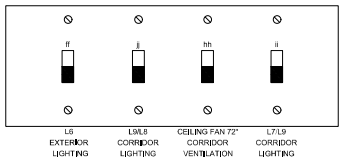
DRAWING No.

E101

ELECTRICAL LIGHTING DISTRIBUTION PLAN



ELECTRICAL LIGHTING DISTRIBUTION PLAN
SCALE: 1/8"= 1'-0"



1 MASTER LIGHTING SWITCH BANK
SCALE: N.T.S.

KEY NOTES	
MARK	DESCRIPTION
1	NEW LIGHTING SWITCH BANK. SEE DETAIL ON THIS SHEET. IF LOCATION IS UNDESIRABLE, FIELD VERIFY LOCATION WITH THE ARCHITECT AND PROJECT OWNER PRIOR TO ROUGH-IN.
2	CIRCUIT VIA MASTER LIGHTING SWITCH BANK, SEE DETAIL 1 OF THIS SHEET.
3	EMERGENCY FIXTURE TO BE SERVED UNSWITCHED LEG OF LOCAL CICUIT TO PROVIDE CONTINUOUS ILLUMINATION PER NEC 700-12(A) AND LIFE SAFETY

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LIGHTING FIXTURES SCHEDULE

ID		DESCRIPTION	MOUNT TYPE	MANUFACTURER	MODEL	REMARK
L1		2FT ROUND LED PENDANT	PENDANT	ALCON LIGHTING	12201-QS-DD35	
L2		EDGE LIT ARCHITECTURAL LED FLAT PANEL HIGH EFFICIENCY DIRECT TROFFER	SURFACE	ALCON LIGHTING	14028	
L3		EDGE LIT ARCHITECTURAL LED FLAT PANEL HIGH EFFICIENCY DIRECT TROFFER	PANEL RECESSED	ALCON LIGHTING	14028	
L4		50" AEON ARCHITECTURAL LINEAR FLOURESCENT LIGHT FIXTURE WITH LAMP	SURFACE	ALCON LIGHTING	6024	
L5		ROUND DRUM CLOUD LED LIGHT FIXTURE	SURFACE	ALCON LIGHTING	12208	
L6		ARCHITECTURAL 4 INCH CYLINDER LED LIGHT AND DOWN LIGHT	WALL MOUNTED	ALCON LIGHTING	11240-2	
L7		735 LUMENS 4000K CONTINIUM 20 SERIES PENDANT (25'-0") WITH FINISH MATTE	PENDANT	ALCON LIGHTING	12100 20-P	
L8		735 LUMENS 4000K CONTINIUM 20 SERIES PENDANT (20'-0") WITH FINISH MATTE	SURFACE	ALCON LIGHTING	12100 20-P	
L9		735 LUMENS 4000K CONTINIUM 20 SERIES PENDANT (15'-0") WITH FINISH MATTE	SURFACE	ALCON LIGHTING	12100 20-P	
L10		ARCHITECTURAL EDGE LIT LED FLAT PANEL LIGHT	SURFACE	ALCON LIGHTING	14052	

PROJECT ADDRESS
PR-CRP-0092 ELDERLY SERVICE CENTER, CALLE FERROCARRIL #11 BO. PUEBLO, LAJAS, P.R. 00667.

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OWNER
LAJAS MUNICIPALITY

REGISTER No.
358-032-072-01

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CERTIFICATION

I, WILLIAM MELENDEZ RIVAS, LIC. 16,888, CERTIFY THAT I AM THE PROFESSIONAL WHO MADE, DESIGNED OR PREPARED THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 14-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY" AND WITH THE [LAW NO. 319 OF MAY 15, 1938, AS AMENDED; ACT NO. 96 OF JULY 6, 1976, AS AMENDED; AS APPLICABLE]. I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY IGNORANCE OR NEGLIGENCE EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE OGPE.

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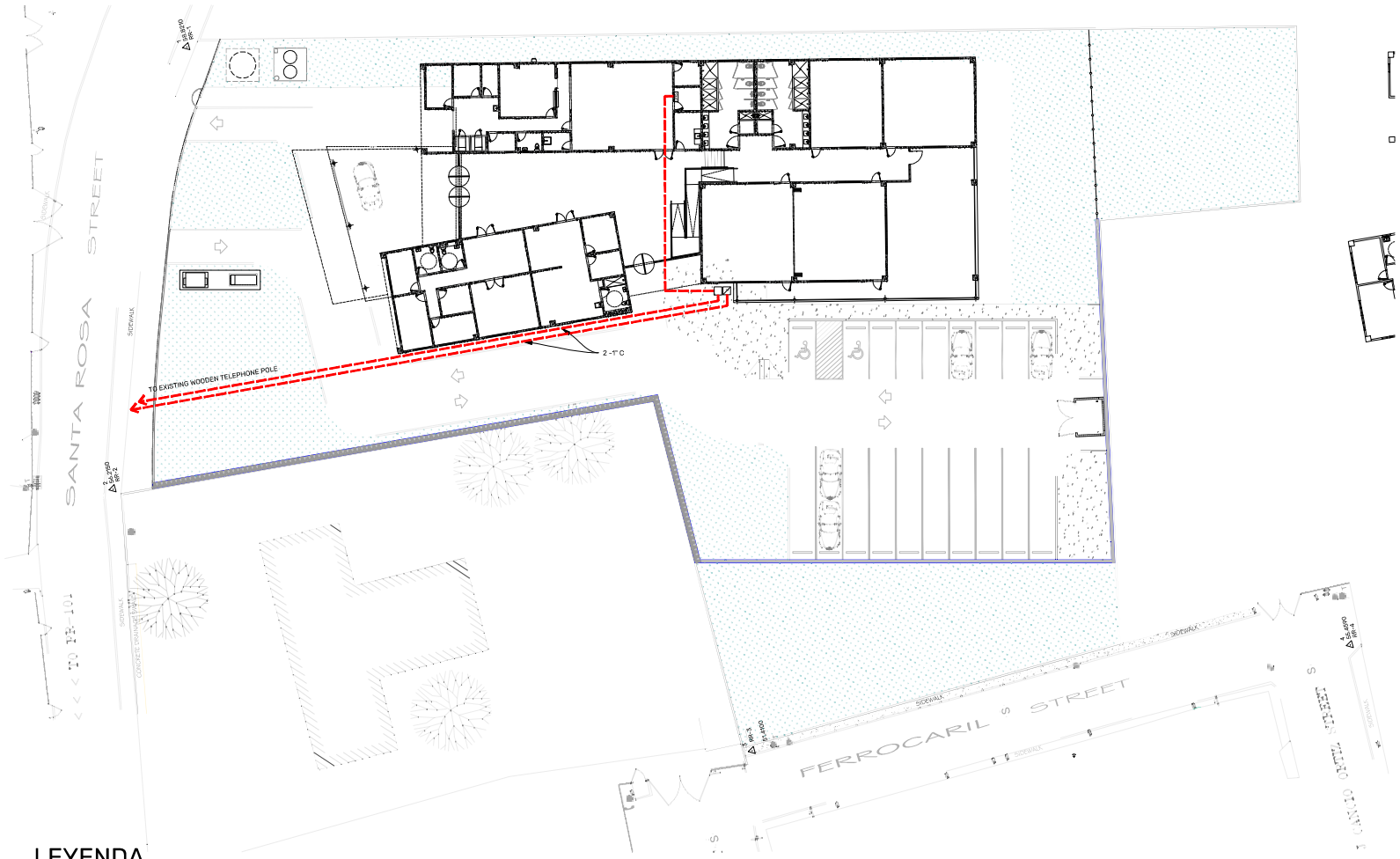
SIGNATURE

FILE

Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
ELECTRICAL LIGHTING DISTRIBUTION PLAN

DRAWING No.
E102



LEYENDA

	2-1" 0 (MIN) SCH 40
T	POSTE DE MADERA EXISTENTE (TELEPHONE)
	JUNCTION BOX - CATV
	JUNCTION BOX - TEL

PROPOSED TELECOMMUNICATIONS SITE PLAN

SCALE: 3/32" = 1'-0"

LOCATION

OBTAINED FROM: GOOGLE EARTH IMAGE

ELDERLY SERVICE CENTER
CALLE FERROCARRIL #11 BO. PUEBLO, LAJAS, P.R. 00667

COORDENADAS: GPS LATITUDE/LONGITUDE:
18.04941608, -67.05761236

CATASTRO : 358-032-072-01

SITE

PROJECT ADDRESS

PR-CRP-0092 ELDERLY SERVICE CENTER. CALLE FERROCARRIL #11 BO. PUEBLO, LAJAS, P.R. 00667.

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CERTIFICATION

I, WILLIAM MELENDEZ RIVAS, LIC. 16383, CERTIFY THAT I AM THE PROFESSIONAL WHO (MADE, DESIGNED OR PREPARED) THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 16-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY" AND WITH THE [LAW NO. 319 OF MAY 15, 1938, AS AMENDED; ACT NO. 96 OF JULY 6, 1978, AS AMENDED, AS APPLICABLE]. I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY IGNORANCE OR NEGLIGENCE EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS, WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE OGPE.

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SIGNATURE

William Meléndez Rivas
Puerto Rico

FILE

Dwg Name: INGENIUM GROUP

Drawn by: INGENIUM GROUP

Revised by: ING. WILLIAM MELENDEZ

Plot Scale: AS SHOWN

Progress Print:

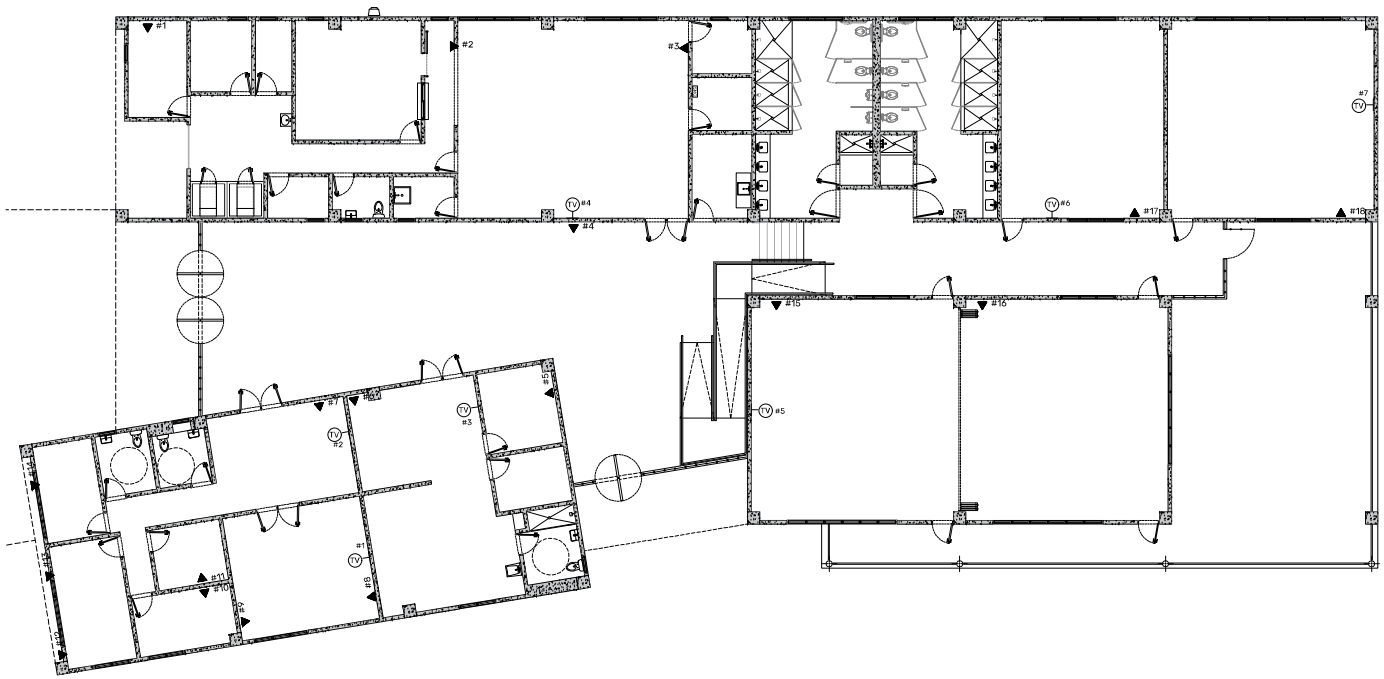
TITLE

TELECOMMUNICATIONS DRAWINGS

DRAWING No.

NET 100

PAGE: 001/89



LEGEND:

- TELEPHONE OUTLET FLUSH MOUNTED 1'-6" ABOVE FINISH FLOOR WITH IVORY COLOR TELEPHONE PLASTIC PLATE. SEE TELEPHONE RISER DIAGRAM.
- 4" X 4" JUCTION BOX FOR INCOMING TELEPHONE SERVICE. SEE RISER DIAGRAM.
- POWER RECEPTACLE 20 AMP, 2P, 3W, 125/250V., IVORY COLOR WITH IVORY COLOR PLASTIC PLATE, FLUSH MOUNTED 7'-0" ABOVE FINISH FLOOR, GROUNDED TYPE (A/C UNIT.)
- POWER RECEPTACLE 30 AMP, 2P, 3W, 250V.,V., IVORY COLOR WITH IVORY COLOR PLASTIC PLATE, FLUSH MOUNTED 2'-0" ABOVE FINISH FLOOR, GROUNDED TYPE (WATER HEATER)
- 2 1/2" X 4" JUCTION BOX INTELED FLUSH MOUNTED AT 4'-6" ABOVE FINISH FLOOR FOR INTERCOM SEE RISER DIAGRAM
- 2 1/2" X 4" JUCTION BOX INSTALLED FLUSH MOUNTED AT 1'-6" ABOVE FINISH FLOOR FOR TELEVISION SEE RISER DIAGRAM.
- COMBINATION METER & MAIN BREAKER SEE ELECTRICAL RISER DIAGRAM.
- PANEL BOARD SEE SCHEDULE FOR DESCRIPTION.

TELECOMMUNICATIONS LAYOUT

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

PROJECT ADDRESS

PR-CRP-0092 ELDERLY SERVICE CENTER, CALLE FERROCARRIL #11 BO. PUEBLO, LAJAS, P.R. 00667.

GPS LATITUDE/LONGITUDE: 18.04941608, -67.05761236

OWNER

LAJAS MUNICIPALITY

REGISTER No.

358-032-072-01

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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Revised by: ING. WILLIAM MELENDEZ

Plot Scale: AS SHOWN

Progress Print:

TITLE

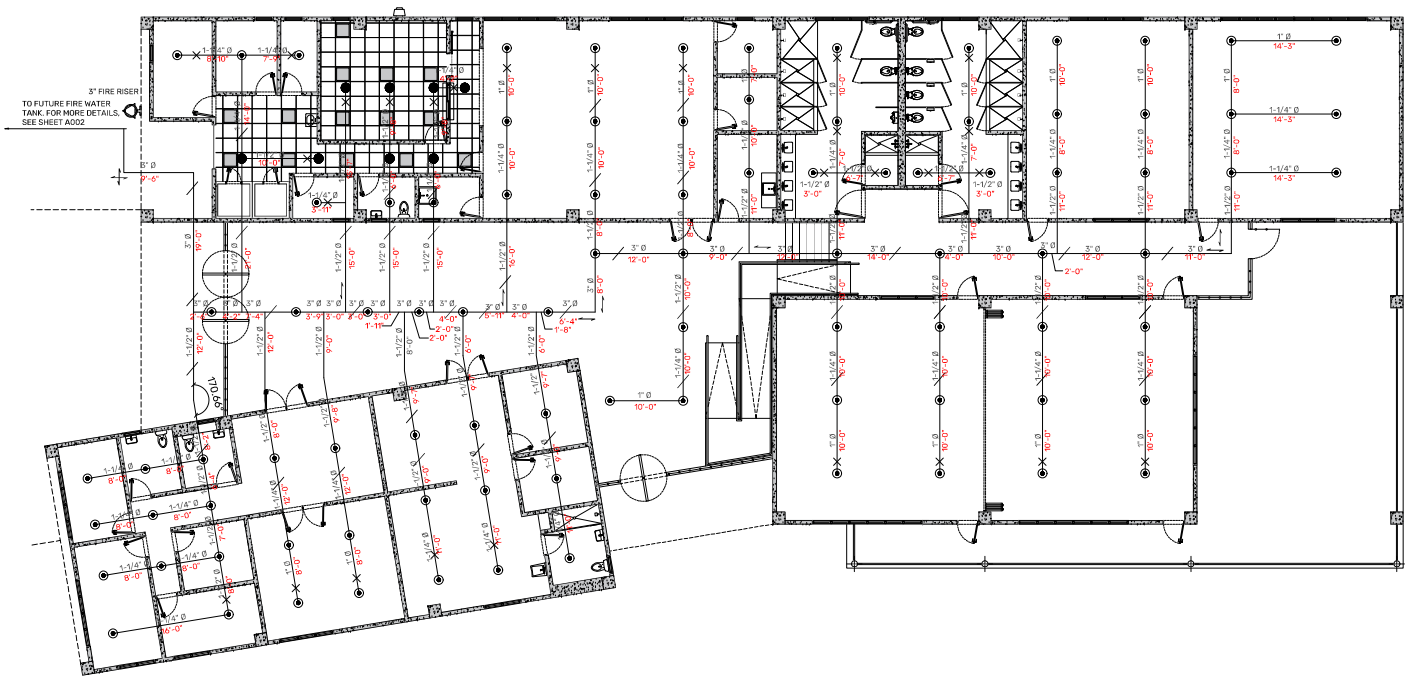
TELECOMMUNICATIONS LAYOUT

DRAWING No.

NET 101

PAGE: 001/89

F I R E P R O T E C T I O N P L A N



FIRE PROTECTION PLAN

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

FIRE PROTECTION GENERAL NOTES:

1. ALL FIRE MAINS, SEISMIC BRACING AND HANGER SUPPORTS FINAL LOCATION WILL BE FIELD COORDINATED.
2. ALL SPRINKLER WORK TO BE IN ACCORDANCE WITH NFPA NO. 13 (LATEST EDITION).
3. FLUSHING CONNECTION TO BE PROVIDED AT THE END OF EACH CROSS MAIN.
4. SHOP DRAWINGS OF THE COMPLETE INSTALLATION WILL BE SUBMITTED TO PROJECT DESIGN TEAM.
5. SYSTEM TO BE TESTED FOR 2 HOURS AT 200 PSI WITHOUT LEAKS.
6. ALL PIPING 1"-2" WILL BE ASTM A53/A-135 SCH. 40, WITH 175 PSI WORKING PRESSURE SCREWED FITTINGS.
7. ALL PIPING 2-1/2" DIAMETER AND LARGER WILL BE ASTM A53/A-135 SCH. 40 WITH 175 PSI WORKING PRESSURE WELDED AND OR GROOVED FITTINGS.
8. ALL HANGER AND SUPPORTS TO BE UL/FM APPROVED.
9. ALL THREADED RODS TO BE 3/8" DIAMETER FOR PIPE HANGING IN SIZE FROM 1" TO 4" ROD FOR 6" PIPE TO BE 1/2" DIAMETER.
10. ALL MAIN(S) BRANCH LINES OUTLETS TO BE SHOP WELDED IN ACCORDANCE/ NFPA 13 (LATEST EDITION)

LEGEND:

- Upright Sprinkler Head
- Pendant Sprinkler
- Cross Main
- Branch Lines
- Fire Hose Cabinet
- Four Way Bracing
- Longitudinal Bracing
- Lateral Bracing
- Hanger

IMPORTANT NOTE:

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PROJECT ADDRESS

PR-CRP-0092 ELDERLY SERVICE CENTER, CALLE FERROCARRIL #11 BO. PUEBLO, LAJAS, P.R. 00667.

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SIGNATURE

William Meléndez Rivas, Puerto Rico

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Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE

FIRE PROTECTION PLAN

DRAWING No.

FP100

GENERAL NOTES & DESIGN CRITERIA

1. THIS DRAWINGS SHOW THE CONCEPT AND INTENT OF THE DESIGN AND GENERAL ARRANGEMENT TO FULFILL THE REQUIREMENTS OF THE UNDERWRITER AND CODE. IT IS NOT THE INTENTION TO SUBSTITUTE AND/OR WAIVE THE REQUIREMENTS OF SHOP/FABRICATION AND INSTALLATION DRAWINGS TO BE SUBMITTED BY THE FIRE PROTECTION CONTRACTOR FOR FINAL APPROVAL BY UNDERWRITER. THEREFORE, THESE DRAWINGS DOES NOTE SHOW ALL DETAILS OF CONSTRUCTION WHICH ARE THE RESPONSIBILITY OF THE FIRE PROTECTION CONTRACTOR TO FULLY COMPLY WITH CODES AND UNDERWRITER REQUIREMENTS.

2. DESIGN (SHOP DRAWING AND HYDRAULIC CALCULATIONS), FABRICATION, INSTALLATION AND TESTING SHALL CONFORM WITH NFPA #13, #14, #20, #24 LATEST EDITION LOCAL BUILDING CODE, FIRE DEPARTMENT OF PUERTO RICO PREVENTION CODE AND INSURANCE COMPANY REQUIREMENTS.

3. SHOP DRAWINGS AND HYDRAULIC CALCULATIONS SHALL BE STAMPED AND SIGNED BY PROFESSIONAL ENGINEER REGISTERED IN PUERTO RICO.

4. IT IS REQUIRED THAT HYDRAULIC CALCULATIONS TO BE SUBMITTED BY SPRINKLER CONTRACTOR SHALL DEMONSTRATE A PERFORMANCE (TOTAL SYSTEM FLOW AND PRESSURE) AT BASE OF RISER EQUAL OR BETTER THAN THE EXPECTED FOR THE SPRINKLER SYSTEM SHOWN IN THESE DRAWINGS.

5. CONTRACTOR MUST PERFORM A HYDRANT FLOW TEST OF THE CITY'S WATER FLOW TO SEE IF THE CITY IS CAPABLE OF ENERGIZING THE PROPOSED SPRINKLER SYSTEM, OR A WATER TANK AND FIRE PUMP WOULD HAVE TO BE INSTALLED .

6. ALL PIPE CAN BE A-53 TYPE B, WITH SEAM.

7. ALL PIPING 1" @ 2" DIAMETER SHALL BE BLACK CARBON STEEL ASTM A- 53, SCH. 40, WITH 175 PSI WORKING PRESSURE SCREWED CAST OR MALLEABLE FITTINGS.

8. PIPING 2-1/2" AND LARGER SHALL BE BLACK CARBON STEEL ASTM A- 53, SCH. 10, WITH WELDED OUTLET AND GROOVE END FITTINGS.

9. FIRE PUMP INSTALLATION SHALL CONFORM NFPA 520 LATEST EDITION.

10. UNDERGROUND PIPING INSTALLATION SHALL CONFORM NFPA #24 LATEST EDITION.

11. ALL MATERIAL AND DEVICES SHALL BE U.L. LISTED AND F.M. APPROVED.

12. ALL EXPOSED PIPE TO BE PAINTED WITH ONE COAT OF PRIMER AND TWO FINISH COAT OF RED ENAMEL.

13. DESIGN CRITERIA:
13.1.AREAS: LIVING UNITS AND OTHER (LIGHT HAZARD) AREAS
-DENSITY: 0.10 GPM/SQ.FT
-DESIGN AREA: 1500 SQ.FT
TOTAL = 0.10 GPM/1500 SQ.FT = 150gpm.

-HOSE ALLOWANCE: 100gpm.
-SAFETY FACTOR: 30gpm.
TOTAL = 280gpm.

-Tiempo de 30 minutos.
-Total, de Agua en caso de necesitar Tanque: 9,000galones.
-Tipo de Cabecilla: Standard Upright or Pendant. ½ NPT 5.6K 165 Dgs. F. 175 psi Rating.
-Tuberia Carbon Steel A-53 tipo B con costura.
-Hangers FM approved, UL Listed.
-Earthquake Bracing According to NFPA 13 Latest Ed.

14. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND HYDRAULIC CALCULATIONS OF THE COMPLETE SPRINKLER SYSTEM TO THE APPROVING AUTHORITY BEFORE INSTALLATION. NO INSTALLATION SHALL PROCEED WITHOUT THE ENGINEERS WRITTEN APPROVAL.

15. NO CHANGES TO THE QUANTITY OF SPRINKLERS, DIAMETERS OF PIPING OR CONCEPT OF THE PROJECT WILL BE ALLOW UNTIL WRITTEN APPROVAL.

16. CONTRACTOR SHALL COORDINATE THE FINAL LOCATION OF SPRINKLER HEADS IN ORDER TO AVOID OBSTRUCTIONS WITH DUCT WORK, A.C. UNITS, PIPES, LIGHTING FIXTURES AND SO ON, IN ACCORDANCE WITH NFPA #13, LATEST EDITION.

17. IT WILL BE SPRINKLER CONTRACTOR RESPONSIBILITY TO LAYOUT THE LOCATION FOR EARTHQUAKE BRACING, PERFORM DESIGN LOADS CALCULATIONS,PREPARE INSTALLATION DETAILS AND SIZE THE BRACING COMPONENTS FOR THE DESIGN LOADS. THIS CONTRACTOR SHALL SUBMIT EVIDENCE THAT SUCH COMPONENTS ARE ADEQUATE FOR THE EXPECTED LOADS.THIS CONTRACTOR SHALL FOLLOW THE RECOMMENDATIONS OUTLINED IN THE FACTORY MUTUAL DATA SHEET 2-8 "EARTHQUAKE PROTECTION FOR WATER -BASED FIRE PROTECTION SYSTEMS".

18. ALL CONTROL VALVES SHALL BE SUPERVISED.

19. ALL SUPERVISORY AND FLOW SWITCHES SHALL BE CONNECTED TO THE FIRE ALARM PANEL.

20. AUDIBLE AND VISIBLE ALARMS POWERED BY A SOURCE OTHER THE ENGINE STARTING BATTERIES AND NOT EXCEEDING 125 VOLTS SHALL BE PROVIDED AT THE FIRE ALARM PANEL ON GUARD HOUSE FOR ALL FIRE PUMP EQUIPMENT ALARMS AND SIGNALS.

21. FLOOR: MIN 4 1/4 IN.(114 MM) THICK LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE, MIN 3-HOUR FIRE RESISTANCE RATING.NOMINAL 6 1/4 IN.(159 MM) DIA. OPENING.

22. NON-METALLIC PIPE.NOMINAL 4 IN.(102 MM) DIA.SCHEDULE 40 PVC PIPE.

23. FIRE STOP COMPONENTS:

23.1.FOIL TAPE SINGLE LAYER OF NOMINAL 4 MIL (0.1 MM) THICK PRESSURE- SENSITIVE ALUMINUM FOIL TAPE APPLIED TO PVC PIPE TO PREVENT CONTACT WITH CAULK FILL MATERIAL (ITEM 3C).

23.1.1.THE 3M CO 3M CENTER SAINT PAUL MN 55144 3M BRAND T-49 ALUMINUM FOIL TAPE.

23.2. FILL MATERIAL, INTUMESCENT ELASTOMERIC MATERIAL FACED ON ONE SIDE WITH ALUMINUM FOIL,SUPPLIED IN STRIPS NOMINAL 1/4 IN.(6 MM) THICK BY MIN.2 IN.(51 MM) WIDE STRIPS ARE WRAPPED TIGHTLY AROUND NON-METALLIC PIPE, FOIL SIDE OUT,TO FILL ANNULAR SPACE AROUND PIPE.TWO LAYERS OF WRAPS REQUIRED TO FILL THROUGH OPENING TO 4 IN.(102 MM) DEPTH. EACH LAYER INSTALLED WITH BUTTED SEAMS STAGGERED IN SUCCESSIVE LAYERS. EACH LAYER SECURELY BOUND USING 18 AWG STEEL TIE WIRE OR ALUMINUM FOIL TAPE AND SLID INTO OPENING UNTIL TOP EDGE OF WRAP IS FLUSH WITH TOP SURFACE OF FLOORCUT NAILS ARE THEN DRIVEN VERTICALLY BETWEEN FIRST AND SECOND WRAPS IN BOTTOM LAYER AT 90 INTERVALS AROUND THE SEAL (2 NAILS PER LOCATION).

23.2.1. THE 3M CO 3M CENTER SAINT PAUL MN 55144 FIRE BARRIER WRAP/STRIP FS-195.

23.3. FILL MATERIAL MIN 1/4 IN.(6.4 MM) THICKNESS CAULKING MATERIAL APPLIED TO EXPOSED EDGES OF TOP LAYER OF WRAP STRIP (ITEM 3B) AND TO FILL ALL GAPS AT INTERFACE OF WRAP STRIP AND CONCRETE.

23.3.1. THE 3M CO 3M CENTER SAINT PAUL MN 55144 FIRE BARRIER CAULK CP 255/L OR PUTTY 303.

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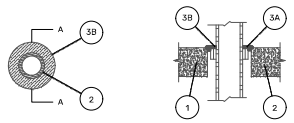

01 FIRE STOP DESIGN 34
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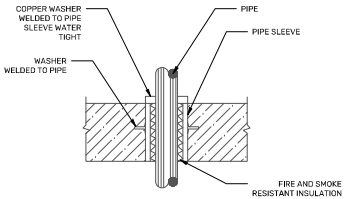

04 PIPE SLEEVE DETAIL
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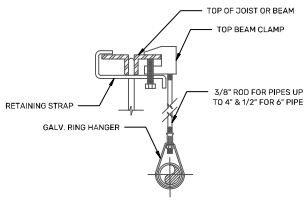

07 CLAM & HANGER
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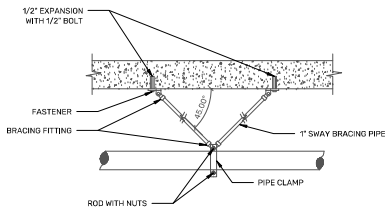

CONTRACTOR HAVE TO PERFORM DESIGN LOAD CALCULATIONS.

02 LONGITUDINAL EARTHQUAKE BRACING FOR CONCRETE SLAB
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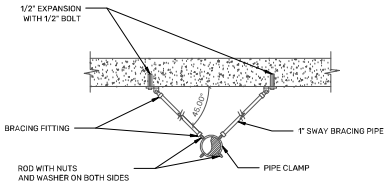

CONTRACTOR HAVE TO PERFORM DESIGN LOAD CALCULATIONS.

05 LATERAL EARTHQUAKE BRACING FOR CONCRETE SLAB
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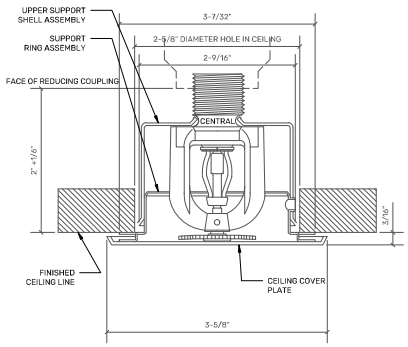

08 CONCEALED SPRINKLER HEAD
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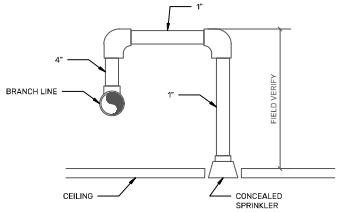

03 BELOW CEILING SPRINKLER DETAIL
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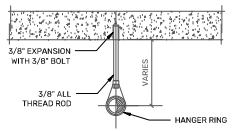

06 HANGER FOR CONCRETE SLAB
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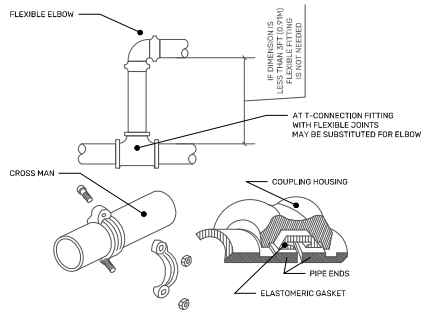

09 SHORT RISER & FLEXIBLE PIPE COUPLING
SCALE: N.T.S.

PROJECT ADDRESS
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I, WILLIAM MELENDEZ RIVAS, LIC. 16,882, CERTIFY THAT I AM THE PROFESSIONAL WHO MADE, DESIGNED OR PREPARED THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 14-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY" AND WITH THE LAW NO. 319 OF MAY 15, 1938, AS AMENDED; ACT NO. 96 OF JULY 6, 1976, AS AMENDED; AS APPLICABLE. I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY IGNORANCE OR NEGLIGENCE EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE OGPE.

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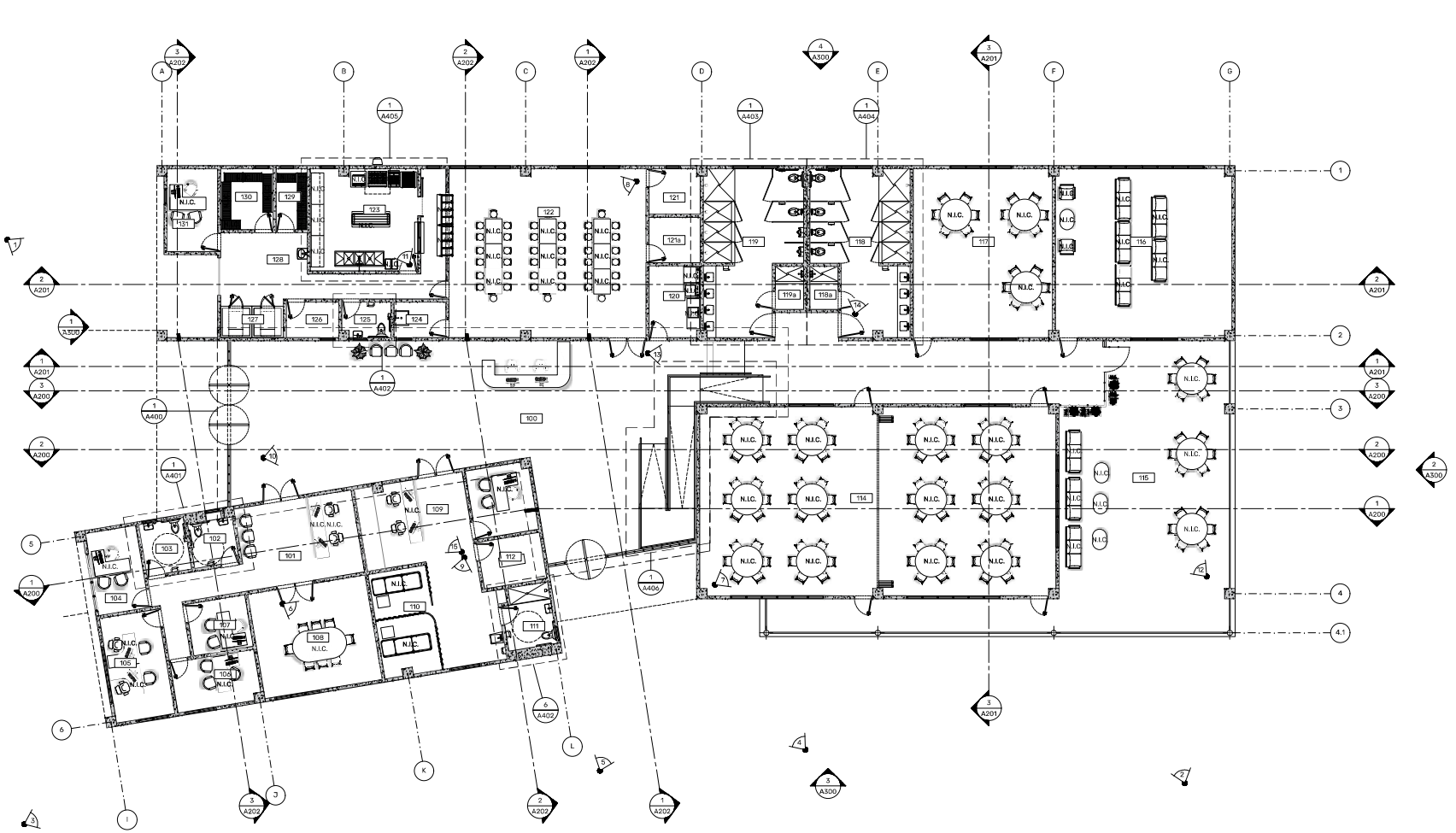
SIGNATURE

FILE
Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
FIRE PROTECTION_DETAILS

DRAWING No.
FP101

P R O P O S E D R E N D E R V I E W L O C A T I O N



1 PROPOSED FURNITURE PLAN PLAN

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

PROJECT ADDRESS

PR-CRP-0092 ELDERLY SERVICE CENTER, CALLE FERROCARRIL #11 BO. PUEBLO, LAJAS, P.R. 00667.

GPS LATITUDE/LONGITUDE: 18.04941608, -67.05761236

OWNER

LAJAS MUNICIPALITY

REGISTER No.

3 5 8 - 0 3 2 - 0 7 2 - 0 1

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
--	--	--	--	--

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SIGNATURE

William Meléndez Rivas, Ingeniero Licenciado, Lic. 16383, Puerto Rico

FILE

Dwg Name: INGENIUM GROUP

Drawn by: INGENIUM GROUP

Revised by: ING. WILLIAM MELENDEZ

Plot Scale: AS SHOWN

Progress Print:

TITLE

PROPOSED RENDER VIEW LOCATION

DRAWING No.

R001

3 D V I S U A L I Z A T I O N S

1 **3D VISUALIZATION**
SCALE: N/A

PROJECT ADDRESS
CII PALMER, CANÓVANAS, 00729,
PUERTO RICO.
GPS LATITUDE/LONGITUDE:
18.37956841, -65.90125588

OWNER
CANÓVANAS MUNICIPALITY

REGISTER No.
266-075-038-21-001

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
--	--	--	--	--

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Puerto Rico

FILE

Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
3D VISUALIZATIONS

DRAWING No.
R100

3 D V I S U A L I Z A T I O N S

1 **3D VISUALIZATION**
SCALE: N/A

PROJECT ADDRESS
CII PALMER, CANÓVANAS, 00729,
PUERTO RICO.
GPS LATITUDE/LONGITUDE:
18.37956841, -65.90125588

OWNER
CANÓVANAS MUNICIPALITY

REGISTER No.
266-075-038-21-001

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
--	--	--	--	--

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SIGNATURE

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Puerto Rico

FILE

Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
3D VISUALIZATIONS

DRAWING No.
R101

3 D V I S U A L I Z A T I O N S

1 **3D VISUALIZATION**
SCALE: N/A

PROJECT ADDRESS
CII PALMER, CANÓVANAS, 00729,
PUERTO RICO.
GPS LATITUDE/LONGITUDE:
18.37956841, -65.90125588

OWNER
CANÓVANAS MUNICIPALITY

REGISTER No.
266-075-038-21-001

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
--	--	--	--	--

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SIGNATURE

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Puerto Rico

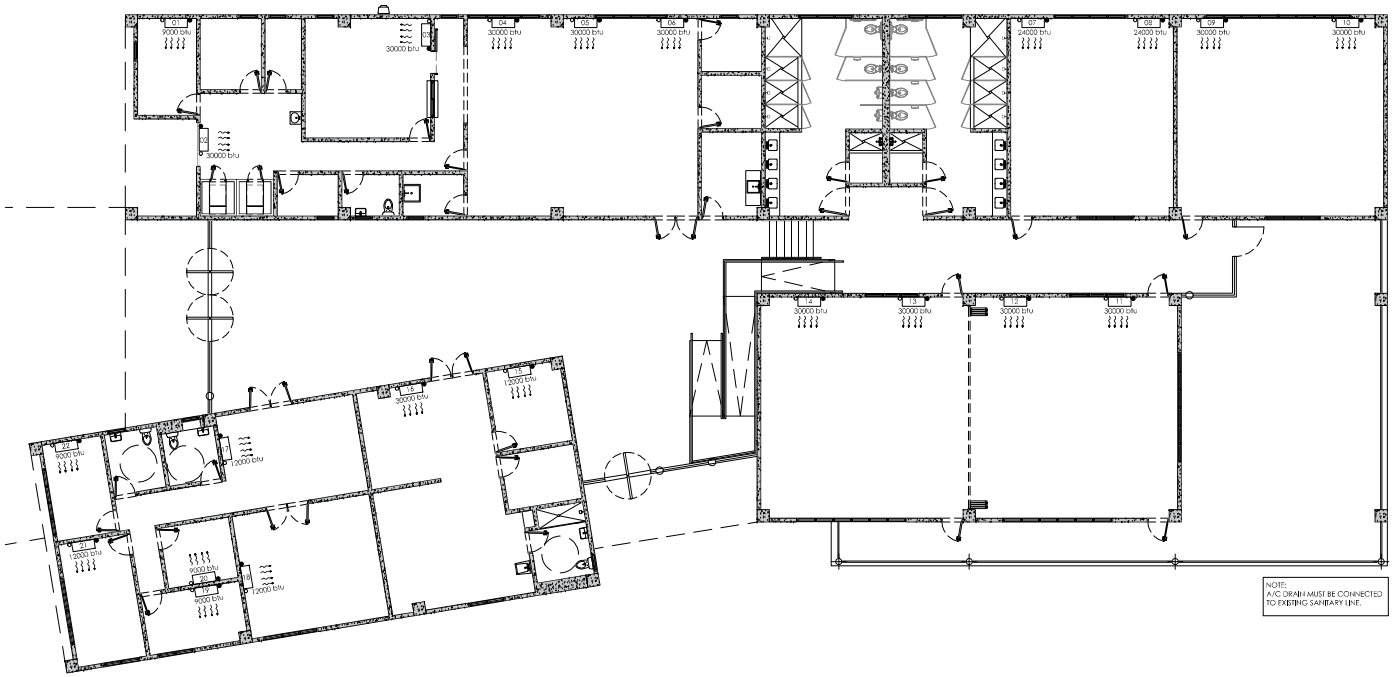
FILE

Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
3D VISUALIZATIONS

DRAWING No.
R102

M E C H A N I C A L S Y S T E M P L A N



LEGEND

- EVAPORATOR UNIT
- CONDENSING UNIT
- 3" Ø PVC DUCT-DARK DOT REPRESENTS PASS-THROUGH CONDUIT TO ROOF FOR INSULATED PIPES AND WIRING (CONTROL AND POWER) BETWEEN CONDENSING UNIT AT ROOF AND FAN COIL.
- CONNECTION INLET TO DRAINAGE PIPING TO BE HIDDEN WITHIN WALLS OR FURRINGS LEADING CONDENSATION FROM THE EQUIPMENT TO AN ACCEPTABLE POINT OF DISCHARGE.

1 MECHANICAL SYSTEM PLAN
SCALE: 1/8"=1'-0"

PROJECT ADDRESS
PR-CRP-0092 ELDERLY SERVICE CENTER, CALLE FERROCARRIL #11 BO. PUEBLO, LAJAS, P.R. 00667.

GPS LATITUDE/LONGITUDE: 18.04941608, -67.05761236

OWNER
LAJAS MUNICIPALITY

REGISTER No.
3 5 8 - 0 3 2 - 0 7 2 - 0 1

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
--	--	--	--	--

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SIGNATURE
William Meléndez Rivas, Puerto Rico

FILE
Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
MECHANICAL SYSTEM PLAN

DRAWING No.
VAC 100

MECHANICAL SYSTEM PLAN

GENERAL A/C NOTES

INTENTION
IT IS THE INTENTION OF THE DRAWINGS TO CALL FOR FINISHED WORK, COMPLETE, TESTED AND READY FOR OPERATION. DETAILS NOT SHOWN OR SPECIFIED, BUT NECESSARY FOR THE PROPER INSTALLATION, FUNCTION AND OPERATION OF THE SYSTEM SHALL FORM PART OF THE WORK TO BE PERFORMED BY THE CONTRACTOR

1. THE MECHANICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL ELECTRICAL CONTROLS, SAFETY SWITCHES AND ACCESSORIES NOT INDICATED IN THE ELECTRICAL DRAWINGS AND NECESSARY FOR THE MECHANICAL EQUIPMENT MANUFACTURES RECOMMENDATIONS AND THE NATIONAL ELECTRIC CODE.

2. THE MECHANICAL CONTRACTOR SHALL PERFORM ALL WIRING AND CONNECTION (POWER) NOT INDICATED IN THE ELECTRICAL DRAWINGS AND NECESSARY FOR THE PROPER OPERATION OF THE MECHANICAL EQUIPMENT IN STRICT ACCORDANCE WITH THE RULES OF THE NATIONAL ELECTRIC CODE.

3. AIR CONDITIONING EQUIPMENT MANUFACTURER SHALL SUPPLY THERMOSTATIC EXPANSION VALVES, FILTER DRYER SIGHT GLASS PACK LESS GLOVE VALVE AND LIQUID LINE SOLENOID VALVES, FOR FIELD INSTALLATION, WHEN APPLICABLE.

4. THE ENTIRE AIR CONDITIONING INSTALLATION SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE STANDARDS AND RECOMMENDATIONS OF THE PUERTO RICO ENERGY CONSERVATION CODE. AMERICAN SOCIETY OF HEATING REFRIGERATING AND AIR CONDITIONING ENGINEERS AIR CONDITION AND REFRIGERATION INSTITUTE AND MFPA 90A/90B 1984 EDITION CODE.

5. CODES AND REGULATION REFEREED TO ARE THE MINIMUM STANDARDS.
WHERE THE REQUIREMENTS OF THE SPECIFICATIONS OR DRAWINGS EXCEED THOSE OF THE CODES AND REGULATIONS, THE DRAWINGS AND SPECIFICATIONS SHALL GOVERN.

6. ALL EQUIPMENT SHALL BE INSTALLED AND CONNECTED AS SPECIFIED AND INDICATED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTION AND RECOMMENDATION FURNISH AND INSTALL AUXILIARY PIPING, WATER SEALS, VALVES, ELECTRICAL CONNECTIONS, AND SIMILAR ITEMS, NOT INDICATED OR SPECIFIED BUT REQUIRED AND/OR RECOMMENDED BY THE MANUFACTURER FOR PROPER OPERATION.

7. AFTER COMPLETION OF THE INSTALLATION THE CONTRACTOR SHALL MAKE ALL NECESSARY TESTS, ADJUSTMENTS, AND BALANCE THE SYSTEM TO PROVIDE UNIFORM COOLING THROUGHOUT. APPARATUS SHALL PERFORM SATISFACTORILY AND TEST NECESSARY TO SHOW IT IS CAPABLE OF MEETING SPECIFIED CONDITIONS FURNISH ALL LABOR AND INSTRUMENTS FOR TESTS AND ADJUSTMENTS. AS PART OF THIS CONTRACT THE CONTRACTOR SHALL MAKE ANY CHANGES IN THE PULLEYS BELTS AND DAMPERS OR THE ADDITION OF DAMPERS CORRECT BALANCE AS RECOMMENDED BY BALANCING CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

8. THE DRAWINGS ARE NOT INTENDED TO SHOW COMPLETE OR ACCURATE DETAILS OF THE BUILDING OR INSTALLATION IN EVERY RESPECT. THEY SHOW THE GENERAL LAYOUT AND DO NOT SHOW ALL THE DETAILS OF MANUFACTURERS EQUIPMENT OR THE EXACT SIZE AND LOCATION OF THE PIPING, DUCTWORK AND MACHINERY.

9. THE CONTRACTOR SHALL VERIFY AVAILABLE ELECTRICAL POWER (V, PH) BEFORE PURCHASING EQUIPMENT.

10. BEFORE SUBMITTING BIDS, CONTRACTOR SHALL VISIT THE SITE AND CAREFULLY EXAMINE THOSE PORTIONS OF THE SITE AFFECTED BY THIS WORK SO AS TO FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT THE EXECUTION OF THE WORK.

11. SUBMISSION OF A BID WILL BE CONSTRUED AS EVIDENCE THAT SUCH EXAMINATION HAS BEEN MADE AND LATER CLAIMS FOR LABOR, EQUIPMENT OR MATERIAL REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED, WHICH COULD HAVE BEEN FORESEEN HAD SUCH EXAMINATION BEEN MADE, WILL NOT BE RECOGNIZED.

GENERAL NOTES ON INSTALLATION

1.- THE INTERCONNECTION LINE BETWEEN THE EVAPORATOR UNIT AND THE CONDENSER UNIT INCLUDES WIRING, SUCTION AND LIQUID PIPING.
2.- THE LOCATION OF THE EQUIPMENT, WIRING AND PIPING TRAJECTORY ARE SCHEMATIC SO THEY MUST BE ADJUSTED IN THE FIELD.
3.- THE DISTANCE BETWEEN THE WALL AND CEILING TYPE EVAPORATOR UNIT TO THE CEILING, MUST BE 4" MINIMUM, UNLESS OTHERWISE INDICATED.
4.- THE BASES OF THE CONDENSING UNITS OF THE MINI SPLIT UNITS SHALL BE PLACED ON THE CEILING ON CONCRETE BASES.
5.- ALL CONDENSATE DRAINAGE PIPING SHALL BE CHANNELED TO THE NEAREST STORM DRAINS, TOILETS AND/OR LANDSCAPED AREAS.
6.- ALL CONDENSATE DRAINAGE PIPING SHALL BE ROUTED AWAY FROM THE BLOCK WALLS.
7.- LIQUID AND SUCTION LINE INTERCONNECTIONS (AT EVAPORATOR AND CONDENSER) SHALL BE OF THE THREADED TYPE.
8.- THE LIQUID AND VAPOR PIPES SHALL BE OF FLEXIBLE COPPER TYPE "L".
9.- THE CHANGES OF DIRECTION WILL BE MADE BY MEANS OF A TUBE BENDER.
10.- 1 TON OF REFRIGERATION (T.R.) EQUALS 12,000 BTU/HR.
11.- THE COVER WILL BE MADE OF THE SAME PIPE, HEATING THE UPPER EDGE AND CUTTING IT IN FOUR PARTS, AND THEN BENDING THEM TOWARDS THE CENTER OF THE PIPE FORMING A COVER WITH THE WALLS OF THE SAME.
12.- FOR THE PLUVIAL DOWNSPOUTS 3 "Ø PIPE WILL BE USED INSIDE THE BLOCK WALLS, THE PIPE WILL BE CHANNELED TO THE NEAREST SANITARY DRAINS AND/OR GREEN AREAS.

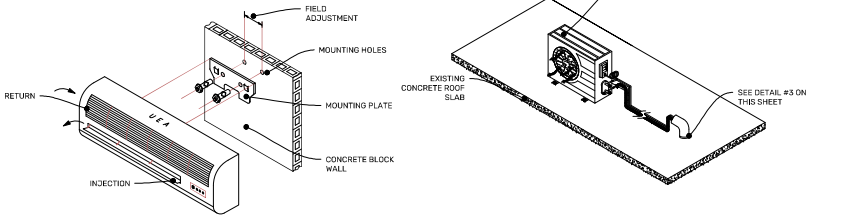
LEGEND

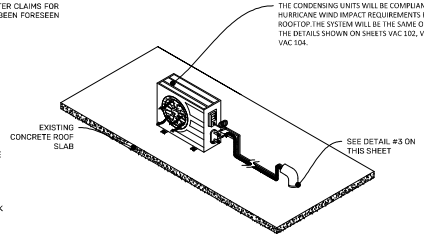
EVAPORATOR UNIT

CONDENSING UNIT

3" Ø PVC DUCT-DARK DOT REPRESENTS PASS-THROUGH CONDUIT TO ROOF FOR INSULATED PIPES AND WIRING (CONTROL AND POWER) BETWEEN CONDENSING UNIT AT ROOF AND FAN COIL.

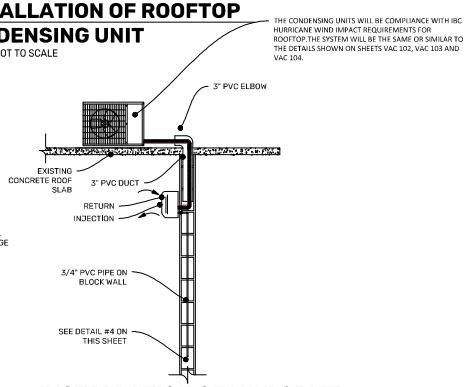
CONNECTION INLET TO DRAINAGE PIPING TO BE HIDDEN WITHIN WALLS OF FURRINGS LEADING CONDENSATION FROM THE EQUIPMENT TO AN ACCEPTABLE POINT OF DISCHARGE.

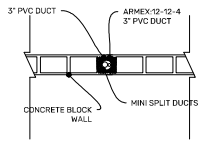




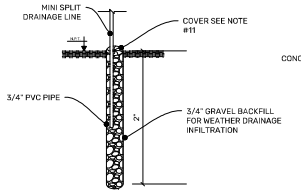
1 DETAIL OF EVAPORATOR UNIT MOUNTING BRACKET
SCALE: NOT TO SCALE

2 INSTALLATION OF ROOFTOP CONDENSING UNIT
SCALE: NOT TO SCALE





3 MINI SPLIT DUCT DETAIL
SCALE: NOT TO SCALE



4 DRAIN PIPE DETAIL
SCALE: NOT TO SCALE

5 INSTALLATION OF MINI SPLIT UNIT ON WALL
SCALE: NOT TO SCALE

MECHANICAL SYSTEM_DETAILS
SCALE: NOT TO SCALE

PROJECT ADDRESS
PR-CRP-0092 ELDERLY SERVICE CENTER, CALLE FERROCARRIL #11 BO. PUEBLO, LAJAS, P.R. 00667.

GPS LATITUDE/LONGITUDE: 18.04941608, -67.05761236

OWNER
LAJAS MUNICIPALITY

REGISTER No.
358-032-072-01

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D

IMPORTANT NOTES TO THE CONTRACTOR:
CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE PROCEDING WITH WORK. IF ANY DISCREPANCIES, ERRORS OR OMISSIONS SHOULD BE ENCOUNTERED ON PLANS, CONTRACTOR SHALL NOTIFY THE ENGINEER BEFORE ANY PART OF THE WORK IS STARTED SO THAT PROPER CORRECTIONS ARE MADE. IF ENGINEER IS NOT NOTIFIED PRIOR TO COMMENCING OF THE WORK, ALL DESIGNS AND DRAWINGS HEREIN AND PRINTS ISSUED BY THE ENGINEER ARE THE PROPERTY OF THE ENGINEER AND SHALL NOT BE REUSED ON ANY OTHER LOCATION EXCEPT THE ONE FOR WHICH THEY EXPRESSLY DESIGNED. IF THESE DRAWINGS OR ANY PART THEREOF IS REPRODUCED WITHOUT THE CONSENT OF THE ENGINEER, THE PERSON WHO IS DOING WILL BE INDEBTED TO THE ENGINEER FOR HIS FULL COMMISSION. CONTRACTOR SHALL NOT USE FOR CONSTRUCTION PURPOSES ANY DRAWINGS THAT WERE ADVANCE TO HIM PRIOR TO THE BEGINNING OF CONSTRUCTION. ALL PLANS BEING USED BY CONTRACTOR SHOULD HAVE A LABEL SAYING "FOR CONSTRUCTION ONLY" SIGNED AND SEALED BY THE ENGINEER.

CERTIFICATION
I, WILLIAM MELENDEZ RIVAS, LIC. 16383, CERTIFY THAT I AM THE PROFESSIONAL WHO MADE, DESIGNED OR PREPARED THESE PLANS AND THE COMPLIMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 14-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY" AND WITH THE LAW NO. 319 OF MAY 15, 1938, AS AMENDED; ACT NO. 96 OF JULY 6, 1978, AS AMONDED AS APPLICABLE. I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY IGNORANCE OR NEGLIGENCE EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE OGPE.

INGENIUM PROFESSIONAL GROUP
454 Ave. Muñoz Rivera - Suite 1609
454 Plaza, San Juan, PR 00918
Tel. (787) 919-5890 / 5891
Email: info@ingenium.group

SIGNATURE

William Melendez Rivas, Licensed Professional Engineer, Puerto Rico

FILE
Dwg Name: INGENIUM GROUP
Drawn by: INGENIUM GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
MECHANICAL SYSTEM PLAN

DRAWING No.
VAC101

PAGE: 71/71