

**Environmental Review for Activity/Project that is Categorically
Excluded Subject to Section 58.5
Pursuant to 24 CFR 58.35(a)**

Project Information

Project Name: REHABILITACIÓN Y MEJORAS EN LA PLAZA DEL MERCADO PR-CRP-0001010

Responsible Entity: Puerto Rico Department of Housing (PRDOH)

Grant Recipient (if different than Responsible Entity): MUNICIPALITY OF NAGUABO

State/Local Identifier: Puerto Rico

Preparer: SOI Architect Elí M. Martínez

Certifying Officer Name and Title:

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

Direct Comments to: environmentcdbg@vivienda.pr.gov

Project Location:

Bo. Pueblo, Calle Goyco, Naguabo, PR 00718

Parcel ID: 256-013-001-09

Parcel Location:

Lat: 18.21292823, Lon: -65.73647730

See Attachment A

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

The municipality of Naguabo owns the Public Market structure which was built between 1967 and 1972. The structure is located within the urban center of the municipality of Naguabo on the corner of Goyco Street and Garzot Street. The existing structure is two levels built out of reinforced concrete and has a parking lot in the North side and is used as a market providing different services. In the first level there are 30 spaces for commercial use, two bathrooms, janitor's closet, and a courtyard that is partially roofed with a steel structure. In the second level there are an additional seven spaces for commercial use, 3 bathrooms, an open roof top terrace, a multiuse room. The existing structure has 3 staircases.

The scope of work of the proposed project consists of the construction of a new entrance and elevator shaft on the Southeast entrance to provide wheelchair access to the second level along with the renovation of the Southwest entrance as detailed in construction plans in Attachment O/A101 & A102. The new entrances and elevator shall be constructed of steel reinforced concrete with spread footings.

In the exterior, perimeter fences will be replaced in the North and East side. The existing chain link fence in the South and East side will be eliminated. Sidewalks in the Southeast entrances shall be partially demolished to accommodate a low slope entrance to the public market and all sidewalks will be resurfaced. The existing ramp located in the north entrance shall be demolished and reconstructed to comply with ADA standards. Damage to the loading dock area concrete slab will be repaired. In the parking area, a new layer of asphalt shall be installed, and all parking lines will be repainted. The project also entails the construction of a new electrical and water meter bank, ensuring separate utilities for each commercial space. For more information on the new electrical meter bank refer to Attachment O/ES-1.

In the interior, doors will be removed and replaced along with windows and fixed metal panes on the main façade. For more information regarding door and window upgrades refer to Attachment O/A601 & A602. Bathrooms on the first level will undergo reconfiguration to comply with ADA. All bathroom equipment and accessories are to be replaced. The bathroom wall and floor tiles are to be removed and replaced. For more information on upgrades to bathrooms refer to attachment O/A506.

In the interior courtyard, the metal roof shall be replaced, and the existing columns will be covered with fireproof material. Floor tiles in the courtyard are to be removed and replaced. Guardrails are to be installed in the second level corridor in order to comply with building codes and a new handrail shall be installed in stairs to the roof top open terrace. For more information on upgrades in the corridor refer to Attachment O/ A101 & A102.

The existing hung ceilings in the commercial spaces shall be removed and replaced. New acoustic tile ceilings will be installed in all commercial spaces along with new, energy-efficient lighting. In the common areas, a new cement board ceiling will be constructed to conceal the new electrical distribution in the corridors of the first and second level. New lights shall be installed in all corridors and common areas except for the multiuse room on the second level. New emergency exit lights and emergency lighting will be installed. Refer to Attachment O/A103 & A104 for more information on the proposed ceilings. All existing wall mounted air conditioning units shall be removed. New air conditioning units will be installed for all commercial spaces.

Ground disturbances will be concentrated in the area where the new elevator shaft is proposed, and the pedestrian entrance located to the southwest. A soils test was conducted in the area where the elevator is proposed. The study revealed that the soil where the elevator is proposed is poor. The study recommends an over excavation of 8 feet below the footings and the installation of compacted engineered soil or the incorporation of helical piles. Refer to Attachment 000 for more information regarding the soil study.

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	Community Development Block Grant – Disaster Recovery (CDBG-DR)	\$11,938,162.00

Estimated Total HUD Funded Amount: \$1,304,036.46

Estimated Total Project Cost (HUD and non-HUD funds) [24 CFR 58.32(d)]: \$1,723,768.03.

CRP	\$1,304,036.46
FEMA	\$299,946.57
INSURANCE	\$119,785.00
TOTAL	\$1,723,768.03

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 <input type="checkbox"/> <input checked="" type="checkbox"/>	The nearest civilian and military airport is Luis Muñoz Marin and is located 124,450 feet away approx. The project is not located within 15,000 feet of a military airport or 2,500 feet of a civilian airport. Additionally, the sale, acquisition, or disposition of property is not proposed under this scope of work; thus, notification with respect to airport runway protection zones would not apply. Refer to Attachment B.
Coastal Barrier Resources Coastal Barrier Resources Act, as amended by the Coastal Barrier Improvement Act of 1990 [16 USC 3501]	Yes No <input type="checkbox"/> <input checked="" type="checkbox"/>	According to information obtained from the U.S. Fish and Wildlife (USFWS) Coastal Barrier Resources System Mapper, the site is located outside of the Coastal Barrier Resource System. The closest resources are over 2.9 miles away from the project site. This project has no potential to impact a CBRS Unit and is complying with the Coastal Barrier Resources Act. Refer to Attachments C.

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 <input type="checkbox"/> <input checked="" type="checkbox"/>	Project is in Zone X as per FEMA Map 72000C1280J with an effective date of November 18, 2009. The project does not require flood insurance as it is located in a Zone X Area of minimal Flood Hazard. Refer to maps on Attachment D.
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 <input type="checkbox"/> <input checked="" type="checkbox"/>	The project is located within an attainment area. The project is not located in nonattainment Status for any criteria pollutants and the Municipality is not listed in the EPA Green Book "Puerto Rico Nonattainment / Maintenance Status for Each County by Year for all Criteria Pollutants". The project will have no impact and is in compliance with the Clean Air Act without further evaluation. Refer to Attachment E.
Coastal Zone Management Coastal Zone Management Act, sections 307(c) & (d)	Yes No <input type="checkbox"/> <input checked="" type="checkbox"/>	The proposed project is not located within the Puerto Rico coastal management zone. The site location is approximately 3.44 miles from the nearest coastline. The project is in compliance with the Coastal Zone Management Act. Refer to Attachment F.
Contamination and Toxic Substances 24 CFR Part 50.3(i) & 58.5(i)(2)	Yes No <input checked="" type="checkbox"/> <input type="checkbox"/>	Based on NEPAassist, Envirofacts, and EPA Echo information, there are four (4) listed sites (COMBE Products, Dual Lite Cayman, Ransburg, and Naguabo STP) within 3000 ft of the project site. The sites were listed with no violations and are in compliance. In addition, the following facility types were not located in proximity to the subject site and are therefore not mapped in Attachment G: Air Pollution

		<p>(ICIS-AIR), Toxic Releases (TRI), Superfund (NPL), Brownfields (ACRES), and Toxic Substances Control Act (TSCA) facilities. Refer to Attachment G for a list documented sites and the Detailed Facility Reports.</p> <p>No recognized environmental conditions were identified at or near the property.</p> <p>The project's original use of commercial or mercantile type occupancy has not changed. For more detailed information about the area's history, please refer to Attachment L.</p> <p>An asbestos & lead based paint containing material study was performed. Yellow paint in the loading dock reported and ceramic wall tiles containing lead tested positive for lead. The asbestos containing material test yielded positive results in the window caulking. Contaminants shall be removed by a certified professional in accordance with local and federal guidelines. Refer to Attachment 00.</p>
<p>Endangered Species</p> <p>Endangered Species Act of 1973, particularly section 7; 50 CFR Part 402</p>	<p>Yes No</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>The project is in compliance with the blanket clearance. The proposed project involves the rehabilitation of a previously developed area within the current footprint and will not involve the development of previously undisturbed property or natural habitat and there are no critical habitats at this location. See Attachment H.</p> <p>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 USFWS Puerto Rican Boa Conservation Measures guidelines.</p>
<p>Explosive and Flammable Hazards</p>	<p>Yes No</p>	<p>The project does not include any of the following</p>

24 CFR Part 51 Subpart C	<input type="checkbox"/> <input checked="" type="checkbox"/>	<p>activities: development, construction, rehabilitation that will increase residential densities, or conversion, therefore, the project is in compliance with 24 CFR Part 51 Subpart C.</p> <p>The project is not located near or in areas of handling of flammable, toxic or explosive chemical products. Refer to Field Visit Report included in Attachment I.</p>
Farmlands Protection Farmland Protection Policy Act of 1981, particularly sections 1504(b) and 1541; 7 CFR Part 658	Yes No <input type="checkbox"/> <input checked="" type="checkbox"/>	<p>The project is in compliance with the Farmland Protection Policy Act. The project is not located on prime farmland. Soil is classified as Urban Land. The project does not include any activities including new construction, acquisition of undeveloped land or conversion that could convert agricultural land to nonagricultural land use. See Attachment J.</p>
Floodplain Management Executive Order 11988, particularly section 2(a); 24 CFR Part 55	Yes No <input type="checkbox"/> <input checked="" type="checkbox"/>	<p>According to the Advisory Base Flood Elevation (ABFE) maps with an effective date of December 11, 2018, the site is not in a flood zone. Additionally, the project involves the redevelopment of an existing building. The project is not anticipated to impact the floodplain. Refer to Attachment K.</p>
Historic Preservation National Historic Preservation Act of 1966, particularly sections 106 and 110; 36 CFR Part 800	Yes No <input checked="" type="checkbox"/> <input type="checkbox"/>	<p>The complete consultation package was submitted to SHPO on September 20, 2023. SHPO concurred with our finding that the proposed undertaking will have no adverse effect upon historic properties on October 4, 2023. Refer to Attachment L.</p>
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 <input type="checkbox"/> <input checked="" type="checkbox"/>	<p>As the project does not involve the construction or rehabilitation of a residential space, it is not considered to be a noise sensitive project, and therefore, a noise</p>

		assessment was not required. Noise may be generated by construction activities, but construction noise is not anticipated to impact the surrounding neighborhood. The project is in compliance with HUD's Noise regulation.
Sole Source Aquifers Safe Drinking Water Act of 1974, as amended, particularly section 1424(e); 40 CFR Part 149	Yes No <input type="checkbox"/> <input checked="" type="checkbox"/>	There are no sole source aquifers in Puerto Rico. Hence, the project is in compliance. The nearest aquifer is 1,055 miles from the project. See Attachment M.
Wetlands Protection Executive Order 11990, particularly sections 2 and 5	Yes No <input type="checkbox"/> <input checked="" type="checkbox"/>	The proposed project is in compliance with Executive Order 11990. There are no wetlands within or adjacent to the project area. Refer to map on Attachment N.
Wild and Scenic Rivers Wild and Scenic Rivers Act of 1968, particularly section 7(b) and (c)	Yes No <input type="checkbox"/> <input checked="" type="checkbox"/>	There are three rivers in the area. The closest river is Rio Icacos and it is located 4.40 miles away from the proposed project. The project is in compliance with Wild and Scenic Rivers Act. Refer to Attachment O
ENVIRONMENTAL JUSTICE		
Environmental Justice Executive Order 12898	Yes No <input type="checkbox"/> <input checked="" type="checkbox"/>	The project does not create adverse environmental impacts upon a low-income or minority community. The proposed activity will not have a negative impact on Environmental Justice. Therefore, the proposed activity complies with this section.

Field Inspection (Date and completed by):

Field Inspection on March 27, 2023, Elí M. Martínez. Refer to Attachment I

Summary of Findings and Conclusions:

This categorically excluded activity/project cannot be converted to Exempt status due to the requirement for formal consultation or mitigation under one or more statutes or authorities listed at Section 58.5.

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
24 CFR Part 50.3(i) & 58.5(i)(2)	Ceramic wall tiles and paint containing lead and the window caulking containing asbestos are to be removed and disposed of by a certified company in compliance with local and federal regulations.
National Historic Preservation Act of 1966, particularly sections 106 and 110; 36 CFR Part 800	Compliance with the drawings and specifications as provided to PRSHPO and approved, will ensure that this project will have no adverse effects to existing historic properties. No additional mitigation is required.

Determination:

- ☐ This categorically excluded activity/project converts to Exempt, per 58.34(a)(12) because there are no circumstances which require compliance with any of the federal laws and authorities cited at §58.5. **Funds may be committed and drawn down after certification of this part** for this (now) EXEMPT project; OR
- ☒ This categorically excluded activity/project cannot convert to Exempt because there are circumstances which require compliance with one or more federal laws and authorities cited at §58.5. Complete consultation/mitigation protocol requirements, **publish NOI/RROF and obtain "Authority to Use Grant Funds"** (HUD 7015.16) per Section 58.70 and 58.71 before committing or drawing down any funds; OR
- ☐ This project is now subject to a full Environmental Assessment according to Part 58 Subpart E due to extraordinary circumstances (Section 58.35(c)).

Preparer Signature: _____



Date: **JUNE 3, 2024**

Name/Title/Organization: **ELI M. MARTINEZ - ARCHITECT**

Certifying Officer Signature: _____



Date: **June 4, 2024**

Name/Title: Limary Vélez Marrero / Permits and Environmental Compliance Specialist

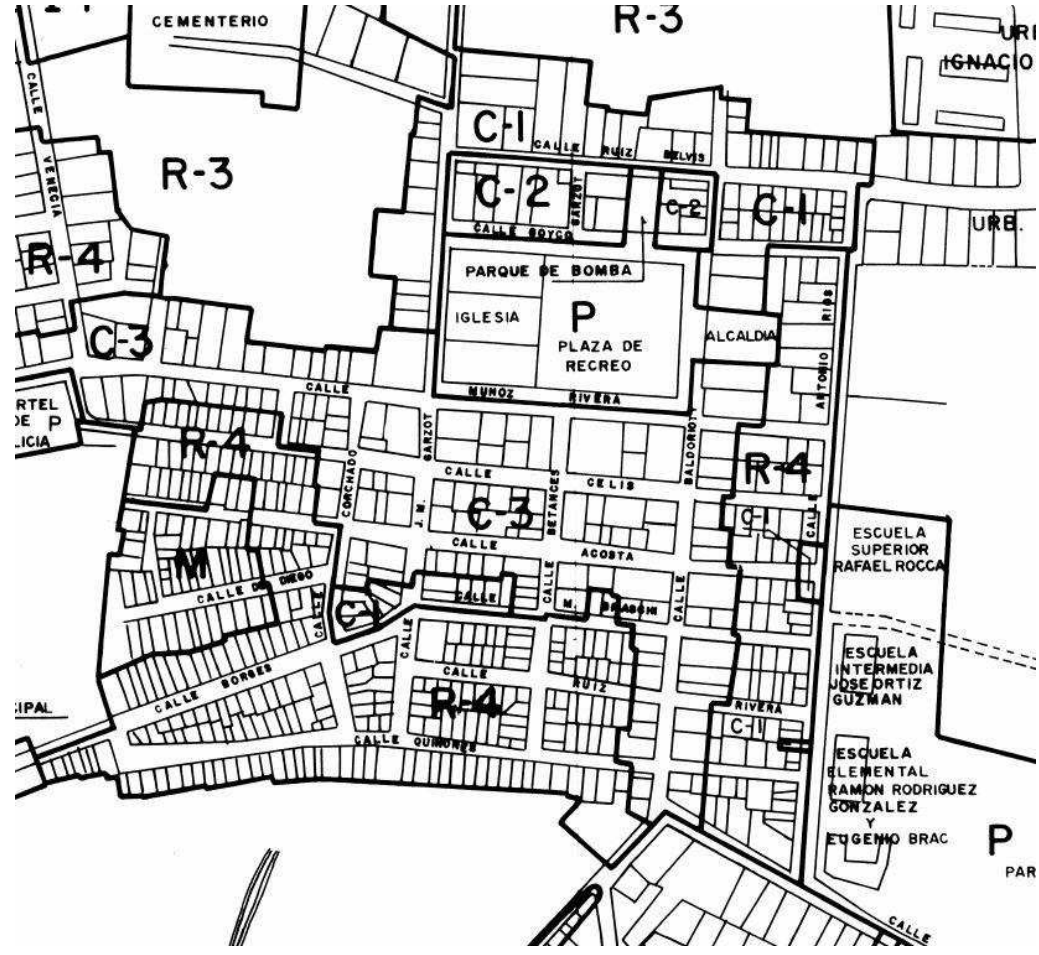
This original, signed document and related supporting material must be retained on file by the Responsible Entity in an Environmental Review Record (ERR) for the activity/project (ref: 24 CFR Part 58.38) and in accordance with recordkeeping requirements for the HUD program(s).

ATTACHMENT 0

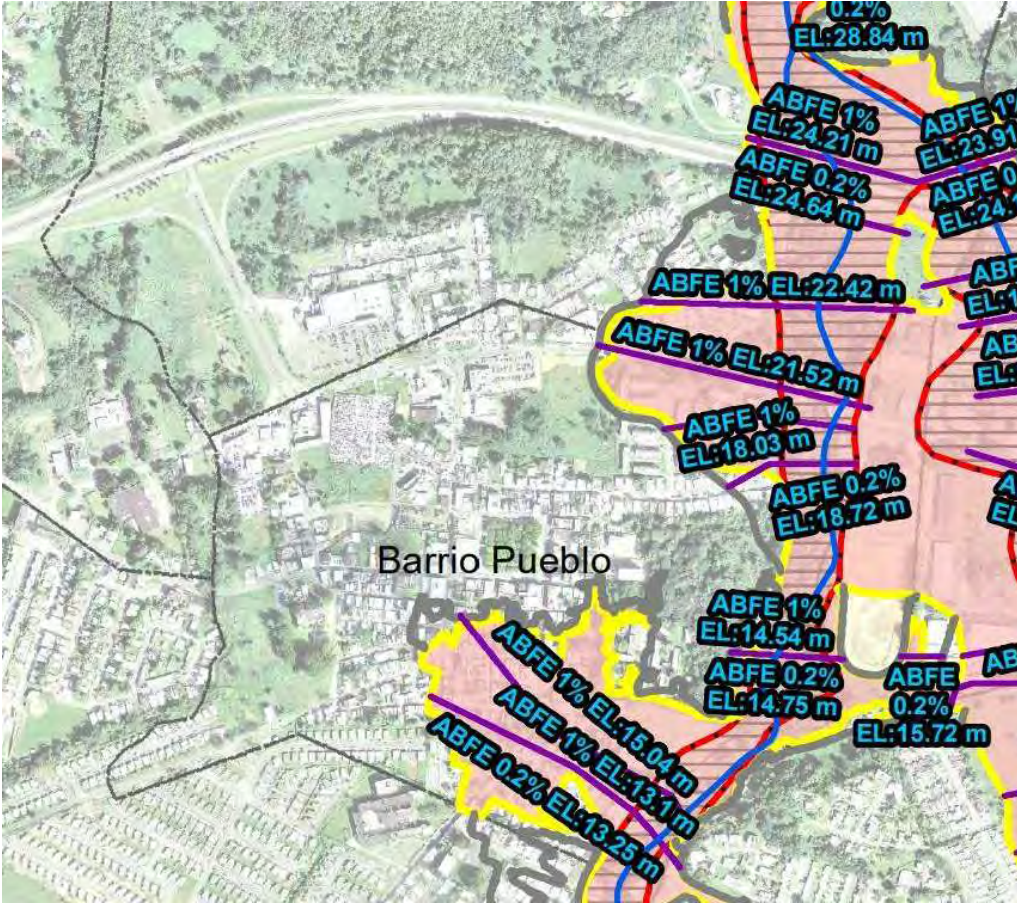
CONSTRUCTION
PLANS 90%



LOCATION PLAN
X: 273710.6316 Y: 242153.8519



MAPA DE ZONIFICACION DE NAGUABO
HOJA NUMERO 4
VIGENCIA: 8 DE AGOSTO DE 2003



FLOOD MAP PANEL
ZONE X
72000C1280J
VIGENCIA: 13 DE ABRIL DE 2018

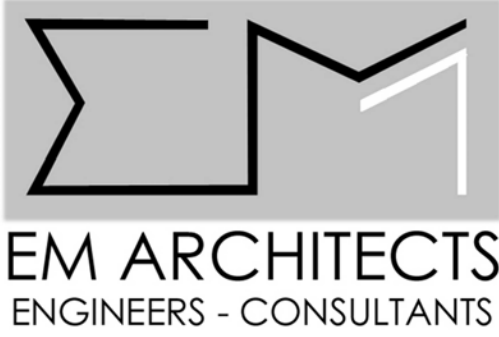


MUNICIPIO DE NAGUABO
HON. MIRAIDALIZ ROSARIO PAGÁN

MEJORAS A PLAZA DEL MERCADO

NAGUABO, PUERTO RICO

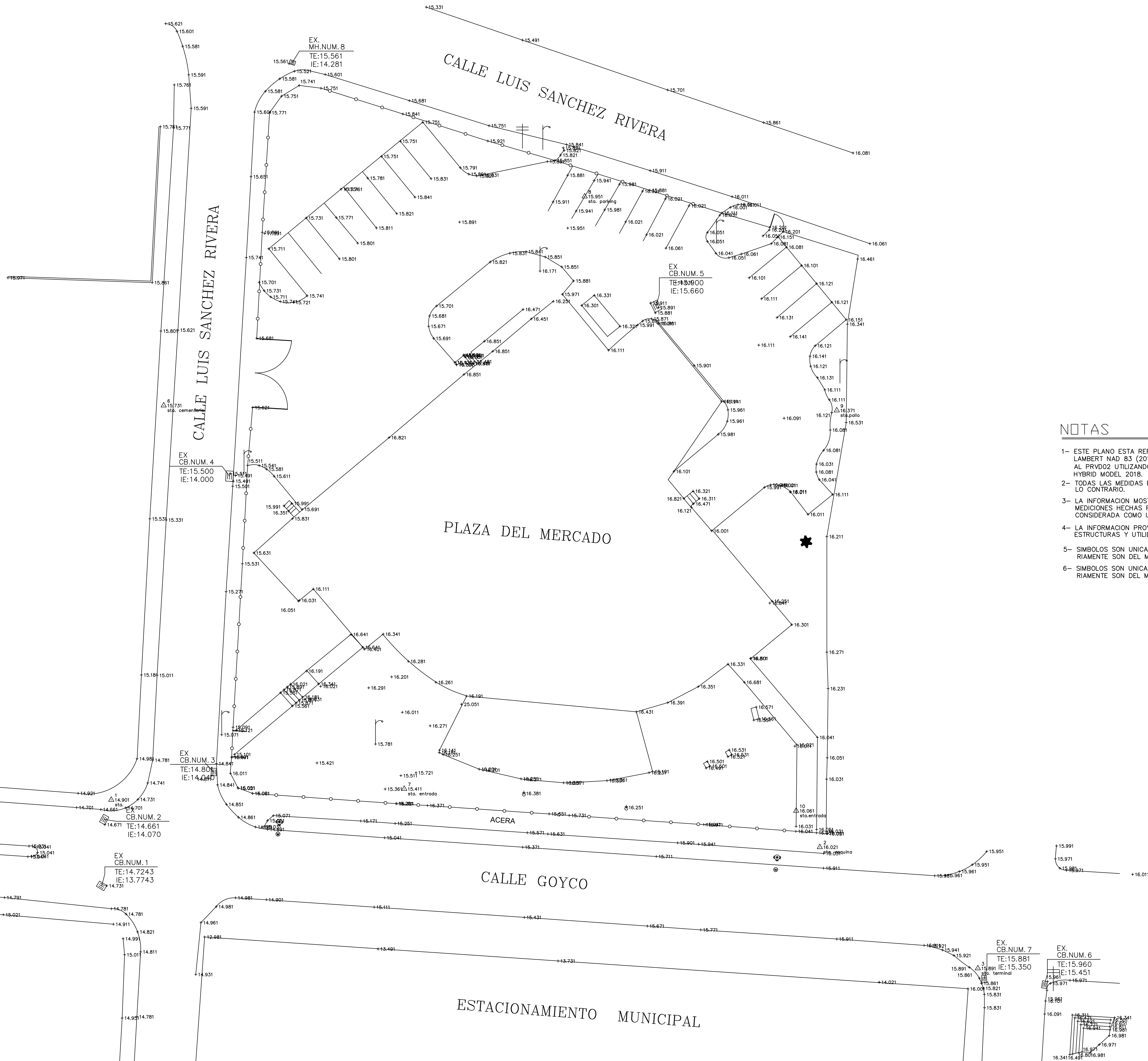
PLANOS DE CONSTRUCCION 90%
29/JANUARY/2024



DRAWING INDEX

SHEET	NOMENCLATURE	SHEET NAME
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05	EX102	EXISTING & DEMOLITION PLAN - 2ND LEVEL
06	EX103	EXISTING ROOF PLAN
07	EX200	EXISTING ELEVATION
08	SA100	PROPOSED SITE PLAN
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29	ST203	STRUCTURAL ROOF SECTIONS
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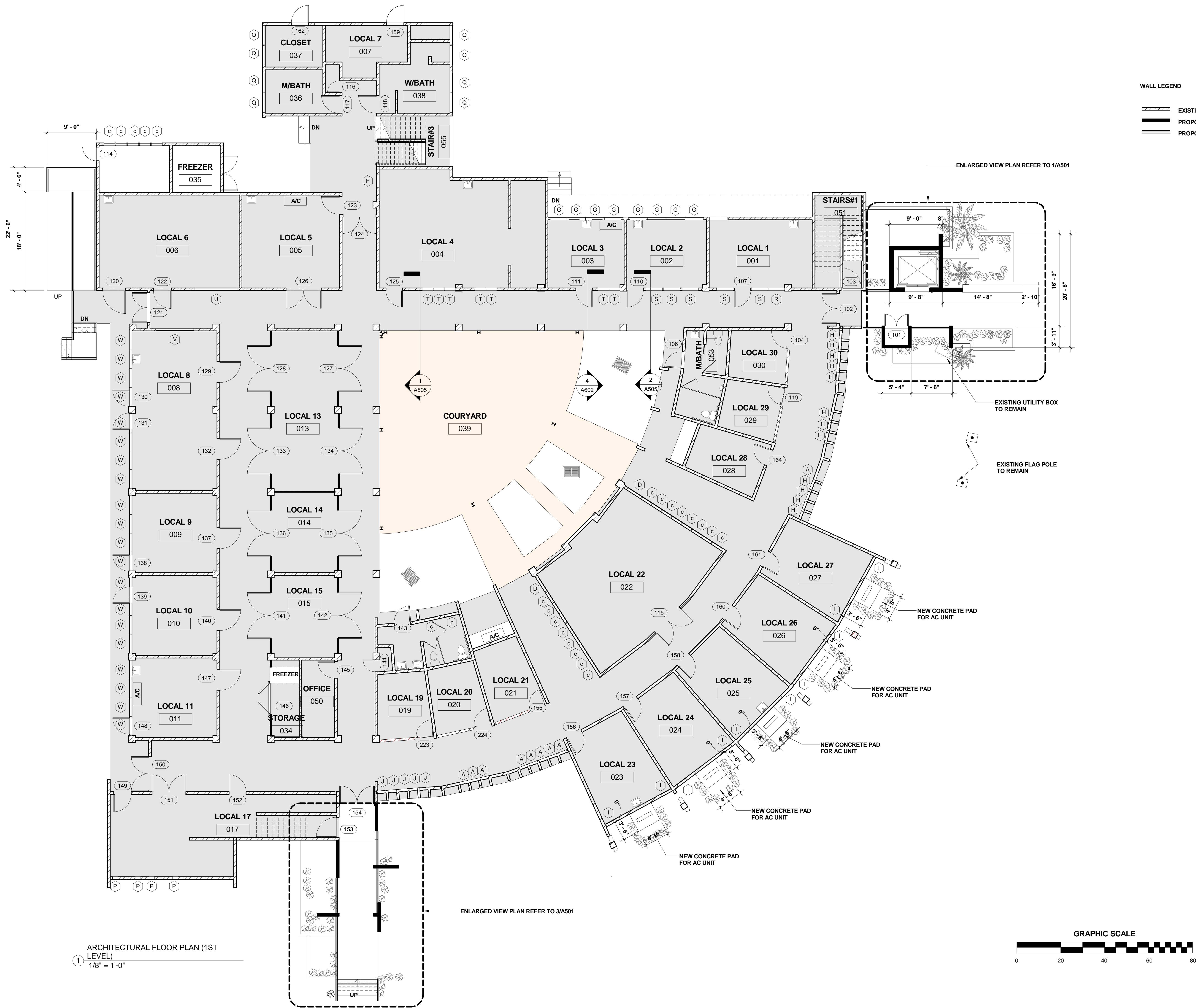
- CONTRACTOR NOTES:
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE PROCEEDING WITH WORK. IF ANY DISCREPANCIES, ERRORS OR OMISSIONS SHOULD BE ENCOUNTERED ON PLANS, CONTRACTOR SHALL NOTIFY ARCHITECT BEFORE ANY PART OF THE WORK IS STARTED SO THAT PROPER CORRECTIONS ARE MADE. IF ARCHITECT IS NOT NOTIFIED PRIOR TO COMMENCING OF THE WORK, THE CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR ANY DISCREPANCIES, ERRORS AND/OR OMISSIONS.
 - ALL DESIGNS AND DRAWINGS HEREIN AND PRINTS ISSUED BY THE ARCHITECT ARE THE PROPERTY OF THE ARCHITECT AND SHALL NOT BE REUSED ON ANY OTHER LOCATION EXCEPT THE ONE FOR WHICH THEY WERE EXPRESSLY DESIGNED.
 - IF THESE DRAWINGS OR ANY PART THEREOF IS REPRODUCED WITHOUT THE CONSENT OF THE ARCHITECT, THE PERSON SO DOING WILL BE INDEBTED TO THE ARCHITECT FOR HIS FULL COMMISSION.
 - CONTRACTOR SHALL NOT USE FOR CONSTRUCTION PURPOSES ANY DRAWINGS THAT WERE ADVANCED TO HIM PRIOR TO THE START OF CONSTRUCTION. ALL PLANS BEING USED BY CONTRACTOR SHOULD BEAR A STAMP WITH THE LABEL: "FOR CONSTRUCTION ONLY" SIGNED BY ARCHITECT.
 - GENERAL CONTRACTOR SHALL FIELD SURVEY LOCATION AND VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE TENANT AND ARCHITECT.
 - GENERAL CONTRACTOR SHALL COMPLETE ALL WORK AS INDICATED ON THESE PLANS UNLESS OTHERWISE NOTED.
 - GENERAL CONTRACTOR SHALL OBTAIN PERMITS, APPROVALS, INSPECTIONS, CERTIFICATE FOR COMPLIANCE AND CERTIFICATE OF OCCUPANCY AS REQUIRED, UNLESS OTHERWISE NOTED.
 - GENERAL CONTRACTOR SHALL CHECK IN WITH AND COORDINATE ALL WORK WITH THE LANDLORD'S PROJECT PERSONNEL.
 - GENERAL CONTRACTOR SHALL PROVIDE TEMPORARY POWER, LIGHT AND TELEPHONE IN ACCORDANCE WITH LANDLORD'S AND TENANTS REQUIREMENTS.
 - GENERAL CONTRACTOR SHALL REMOVED ALL THESE ITEMS AT THE COMPLETION OF WORK OR AS REQUIRED.
 - GENERAL CONTRACTOR SHALL HAVE TENANT'S SPACE CLEANED UPON COMPLETION OF WORK BY A PROFESSIONAL CLEANING SERVICE.
 - GENERAL CONTRACTOR SHALL MAINTAIN ON SITE AT ALL TIMES, ALL APPROVED DRAWINGS INCLUDING ALL REVISIONS AND ADDENDA.
 - GENERAL CONTRACTOR SHALL HAVE AT ALL TIME IN SITE OFFICE COPY OF ALL ENDORSEMENTS AND PERMITS OF THE PROJECT AT A VISIBLE PLACE.



- 1- ESTE PLANO ESTA REFERIDO AL SISTEMA DE COORDENADAS PLANAS ESTATALES LAMBERT NAD 83 (2011) EPOCH:2010.0000 Y LAS ELEVACIONES ESTAN REFERIDAS AL PRVD02 UTILIZANDO : ORTHOMTRIC HEIGHT DERIVED BY GPS UTILIZANDO EL GEOD HYBRID MODEL 2018.
- 2- TODAS LAS MEDIDAS ESTAN EXPRESADAS EN METROS, AL MENOS QUE SE INDIQUE LO CONTRARIO.
- 3- LA INFORMACION MOSTRADA EN ESTE PLANO REPRESENTA EL RESULTADO DE LAS MEDICIONES HECHAS PARA LA FECHA INDICADA EN EL PLANO Y SOLO PUEDE SER CONSIDERADA COMO UNA INDICACION DE LAS CONDICIONES EXISTENTES EN EL MOMENTO.
- 4- LA INFORMACION PROVISTA EN ESTE PLANO PUEDE O NO MOSTRAR TODAS LAS ESTRUCTURAS Y UTILIDADES EXISTENTES POR ENCIMA Y POR DEBAJO DEL TERRENO.
- 5- SIMBOLOS SON UNICAMENTE PARA PROPOSITO DE ILUSTRACION, ELLOS NO NECESARIAMENTE SON DEL MISMO TIPO O TAMAÑO DEL OBJETO QUE ELLOS REPRESENTAN.
- 6- SIMBOLOS SON UNICAMENTE PARA PROPOSITO DE ILUSTRACION, ELLOS NO NECESARIAMENTE SON DEL MISMO TIPO O TAMAÑO DEL OBJETO QUE ELLOS REPRESENTAN.

SYMBOL	DESCRIPTION
_____	PROPERTY LINES
=====	METAL FENCE
~~~~~	CHAIN LINK FENCE
~~~~~	RAILROAD AND POWER LINES
~~~~~	WEEK CONTAINS
~~~~~	INTERMEDIATE CONTOURS
+	POINT
▲	STATIONS
✕	ROAD MARK
• • • • •	SUBSIDING POINTS
●	WATERWHEEL
■	CATCH BASIN
□	WATERWHEEL
○	LIGHTING POLES
⊥	POWER POLES
⊥	TELEPHONE POLES
○ ○	WELL

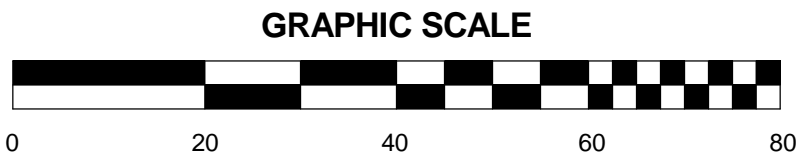
SURVEY CERTIFICATE:
DO HEREBY CERTIFY THAT THIS SURVEY WORK WAS PERFORMED DURING THE MONTH OF
JULY 2022, THAT ELECTRONIC DISTANCES MEASURING INSTRUMENT (TOPCON-GM SERIES)
WERE USED FOLLOWING THE STANDARD SURVEY TECHNIQUES FOR THESE CASES.



1 ARCHITECTURAL FLOOR PLAN (1ST LEVEL)
1/8" = 1'-0"

WALL LEGEND

- EXISTING WALL
- PROPOSED CONCRETE WALL
- PROPOSED GYPSUM WALL



EM ARCHITECTS
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THIS DOCUMENT AND ALL INFORMATION, DESIGN, CONCEPTS, DRAWINGS, DETAILS, SPECIFICATIONS AND GENERAL NOTES CONTAINED HEREIN ARE THE EXCLUSIVE PROPERTY OF EM ARCHITECTS. IT SHALL NOT BE COPIED OR TRANSMITTED IN ANY FORM OR BY ANY ELECTRONIC MEANS WITHOUT THE WRITTEN PERMISSION OF ARG. ELI MARIANO MARTÍNEZ, AIA. THIS DOCUMENT IS TO BE USED AS A WORKING INSTRUMENT ONLY BY AUTHORIZED PERSONNEL.

ARCHITECT:

CONSULTANT:

CERTIFIED BY:

REVISION / DATE / DESCRIPTION

PROJECT
MEJORAS A PLAZA DEL MERCADO
NAGUABO, PUERTO RICO

CLIENT
MUNICIPIO DE NAGUABO

PROJECT #:

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

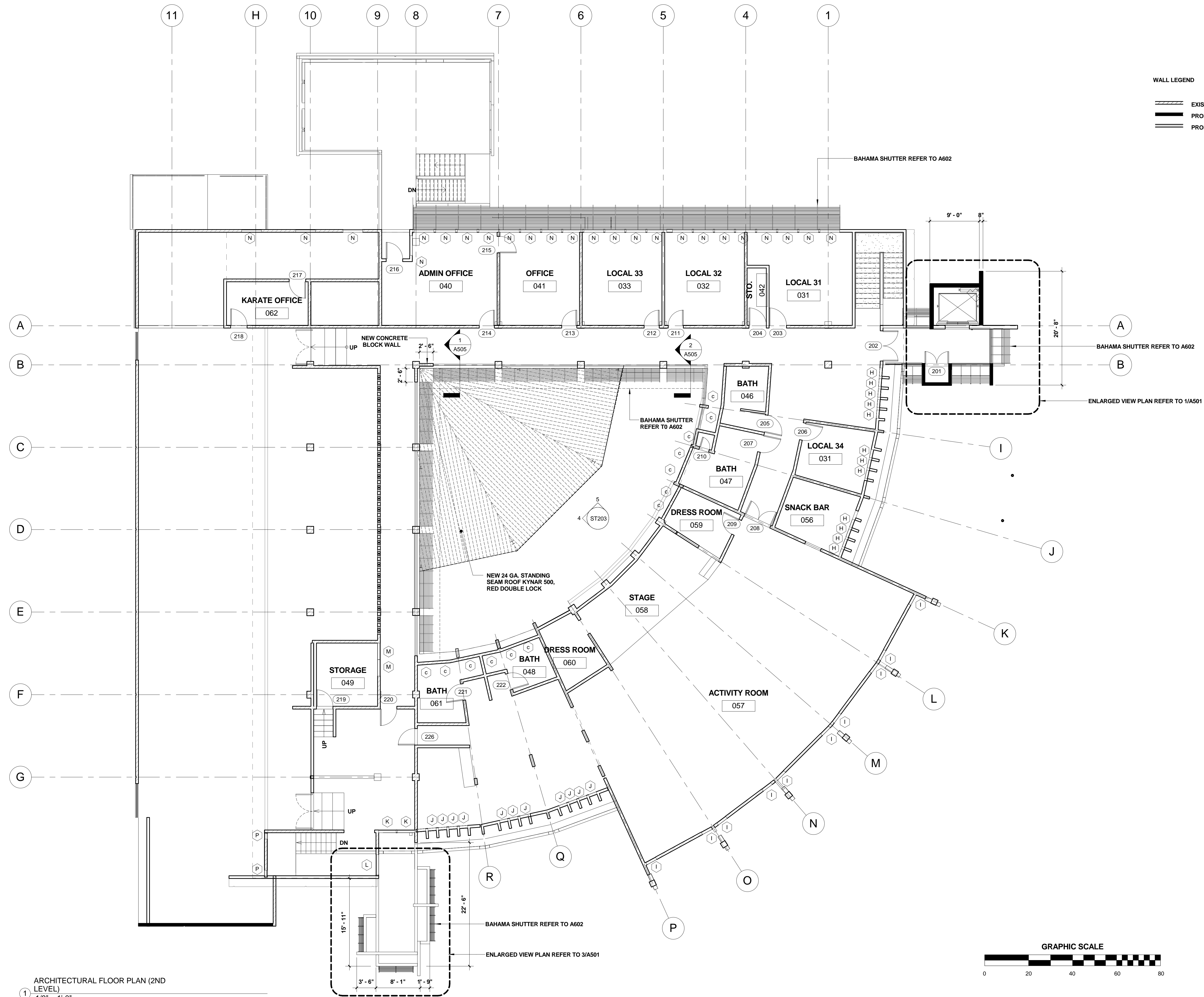
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ARCHITECTURAL FLOOR PLAN - 1ST LEVEL

TITLE

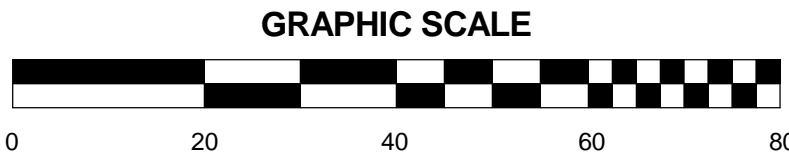
A101

SHEET



- WALL LEGEND
- EXISTING WALL
 - PROPOSED CONCRETE WALL
 - PROPOSED GYPSUM WALL

ARCHITECTURAL FLOOR PLAN (2ND LEVEL)
1/8" = 1'-0"



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MEJORAS A PLAZA DEL MERCADO
NAGUABO, PUERTO RICO

CLIENT
MUNICIPIO DE NAGUABO

PROJECT #:

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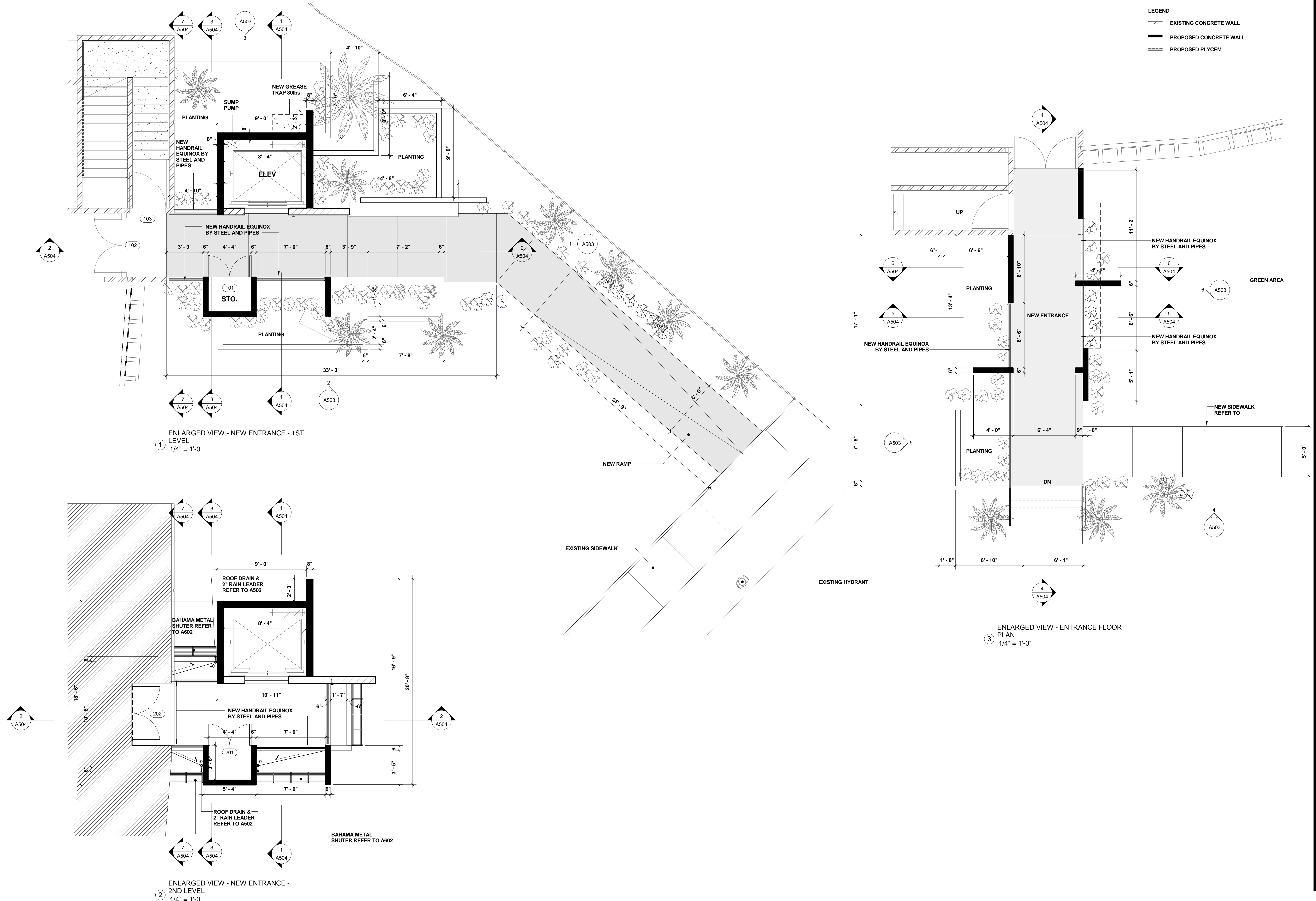
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ARCHITECTURAL FLOOR PLAN - 2ND LEVEL

TITLE

A102

SHEET



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PROJECT #

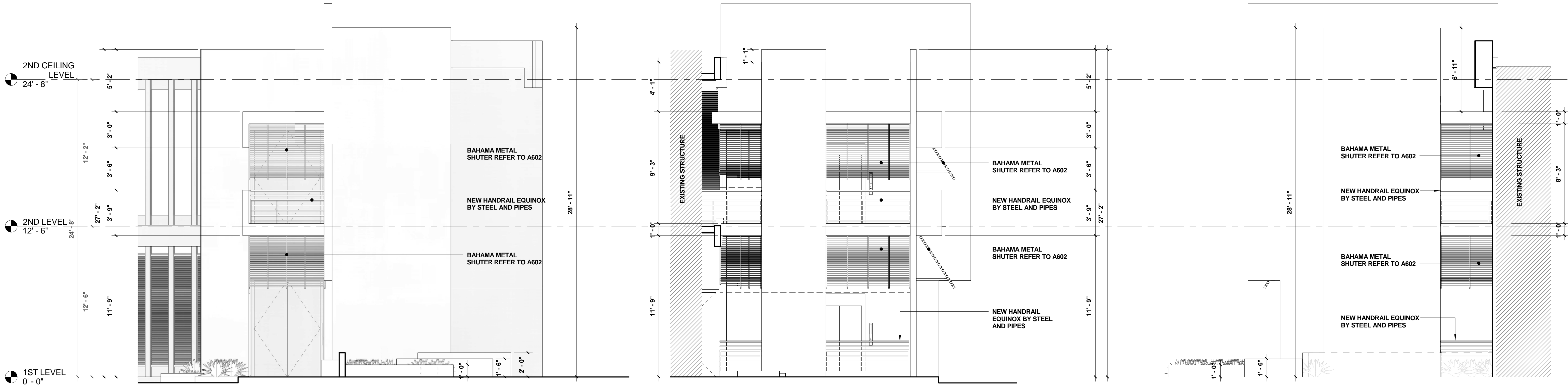
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DRAWN BY: Author

ENLARGED VIEW
PLAN - MAIN
ENTRANCES

TITLE
A501

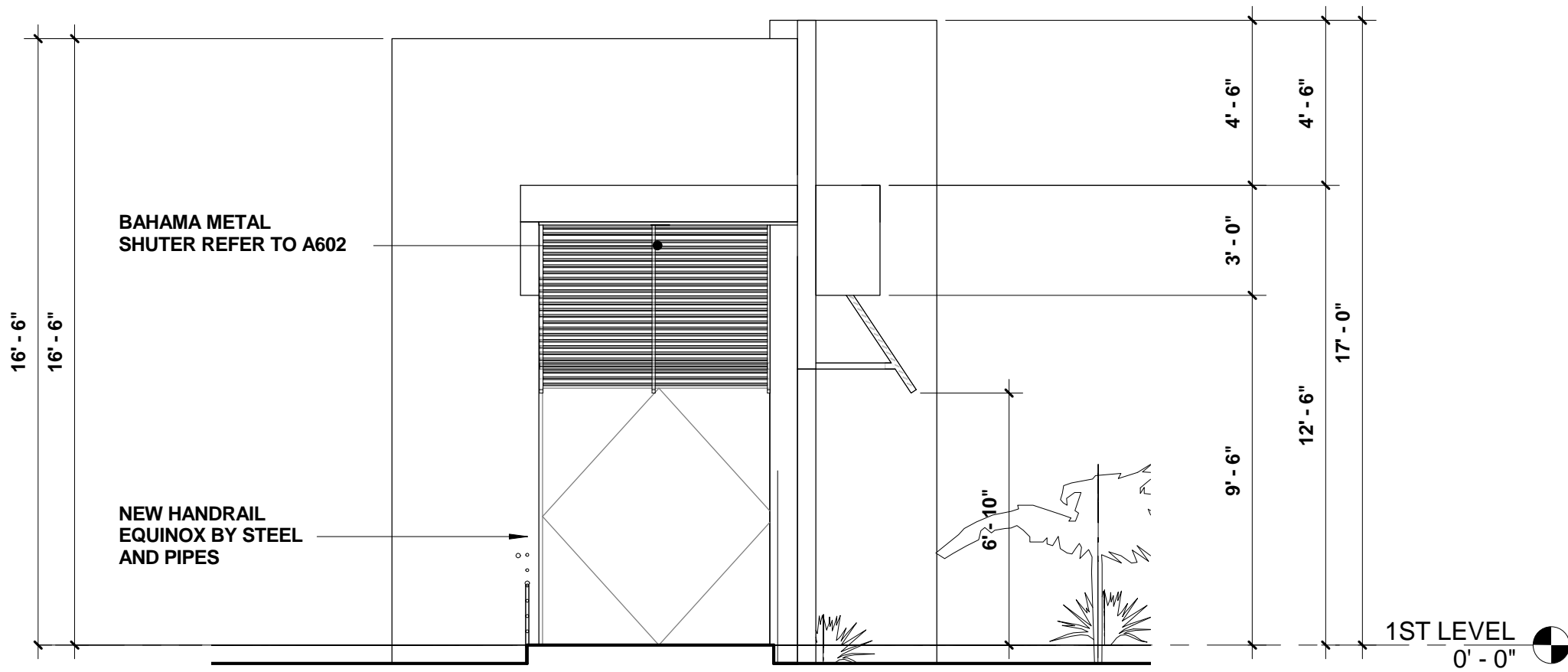
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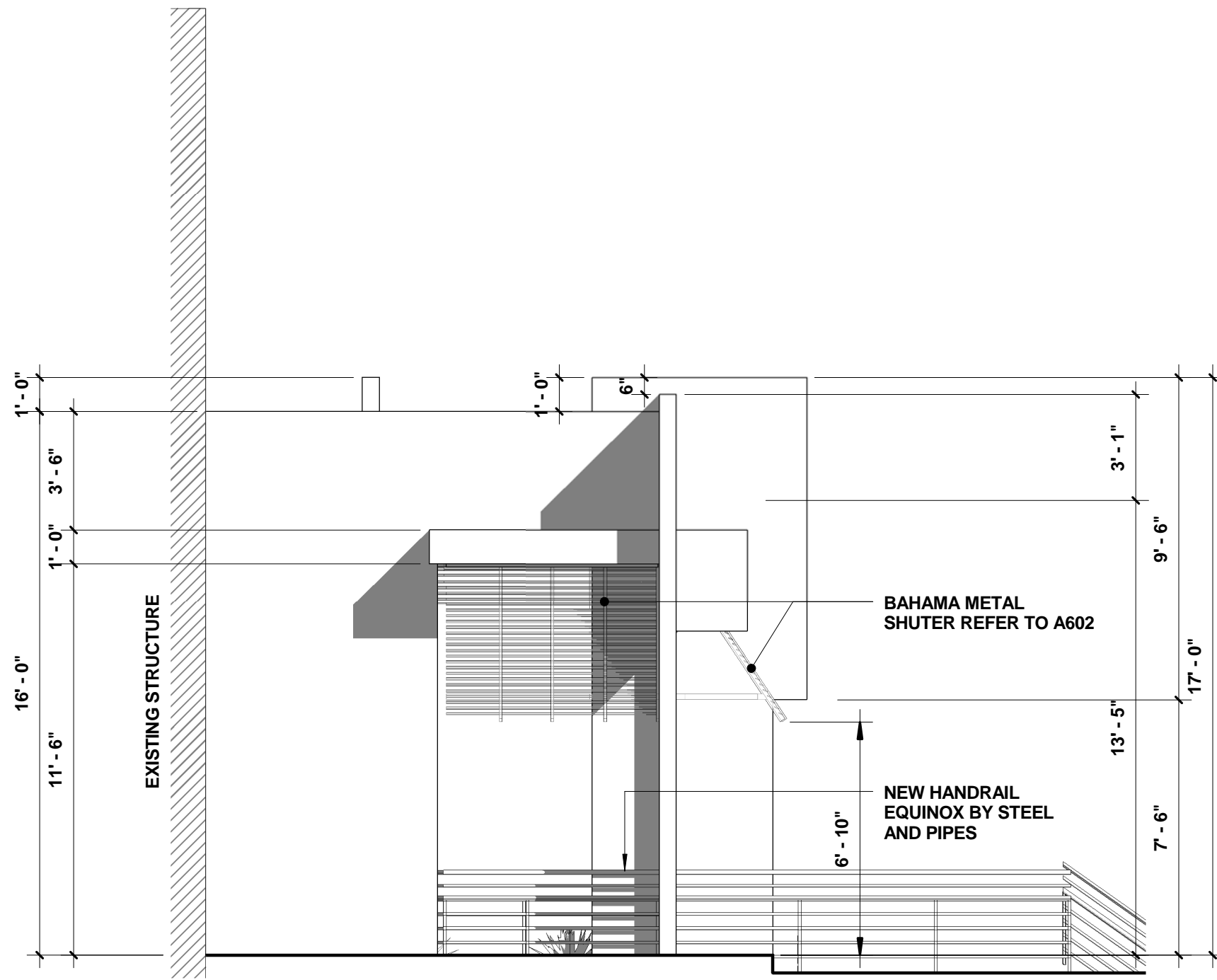
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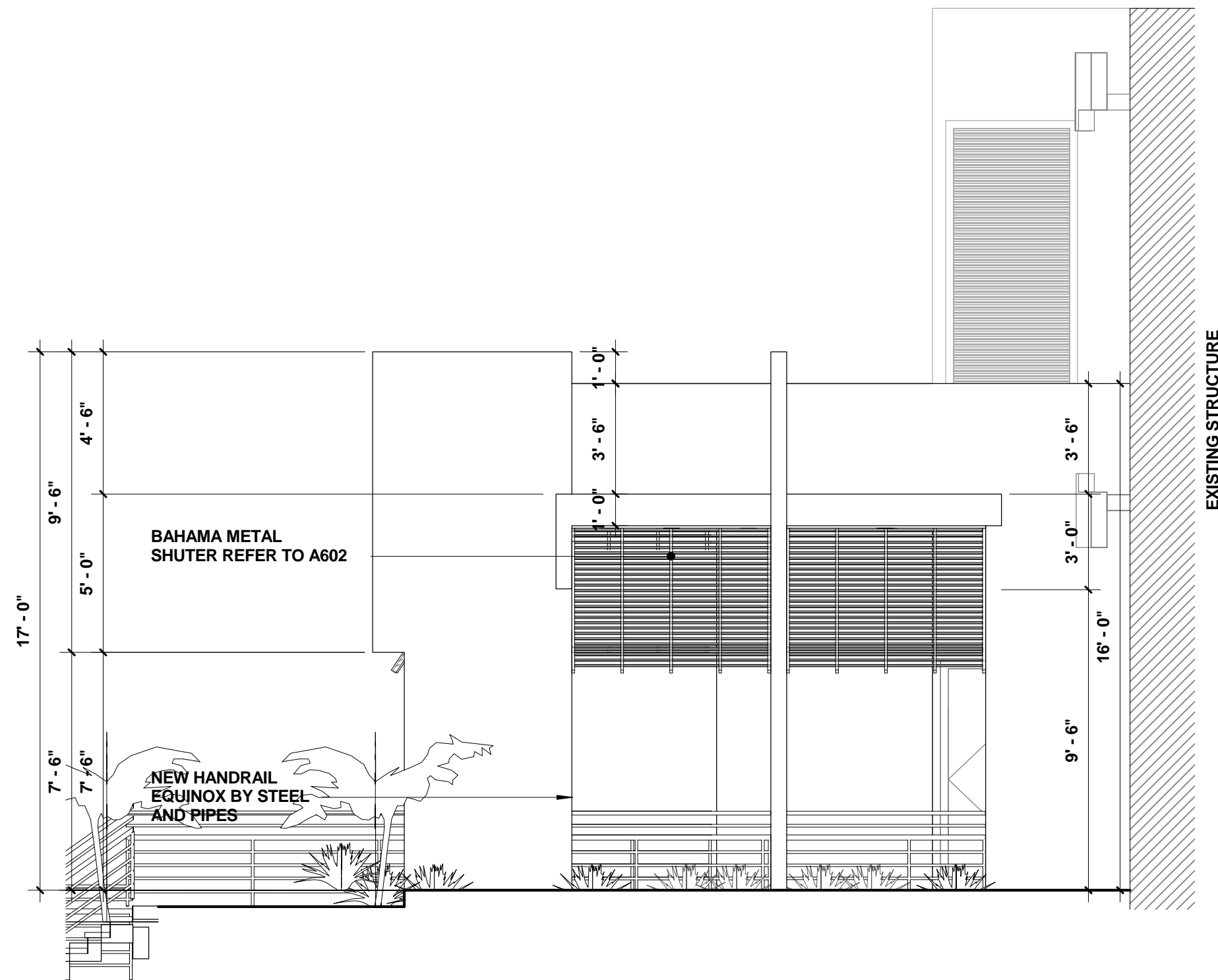
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⑤ NEW ENTRANCE - SIDE ELEVATION
1/4" = 1'-0"



⑥ NEW ENTRANCE - SIDE ELEVATION 2
1/4" = 1'-0"

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PROJECT #

SCALE:

1/4" = 1'-0"

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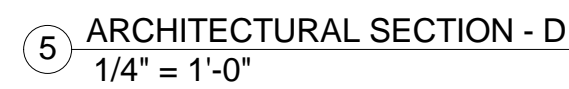
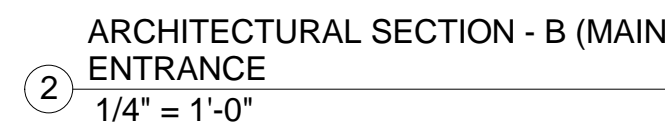
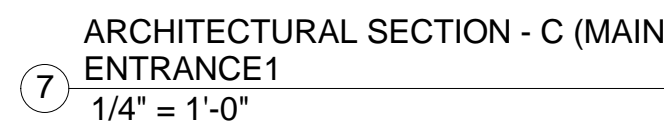
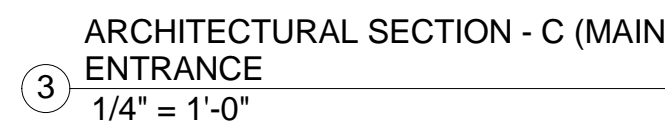
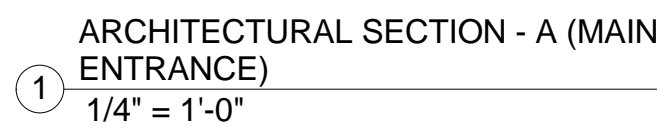
Author

ENLARGED VIEW -
ELEVATIONS -
MAIN ENTRANCES

TITLE

A503

SHEET



[illegible]

PROJECT

MEJORAS A PLAZA DEL MERCADO

MEJORAS A
NAGUABO, PUERTO RICO

MEJORAS A PLANTAS DE
NAGUABO, PUERTO RICO

PROJECT #:

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

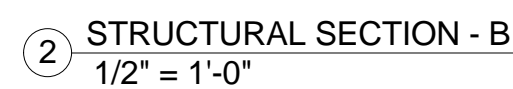
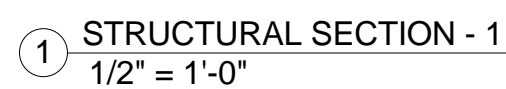
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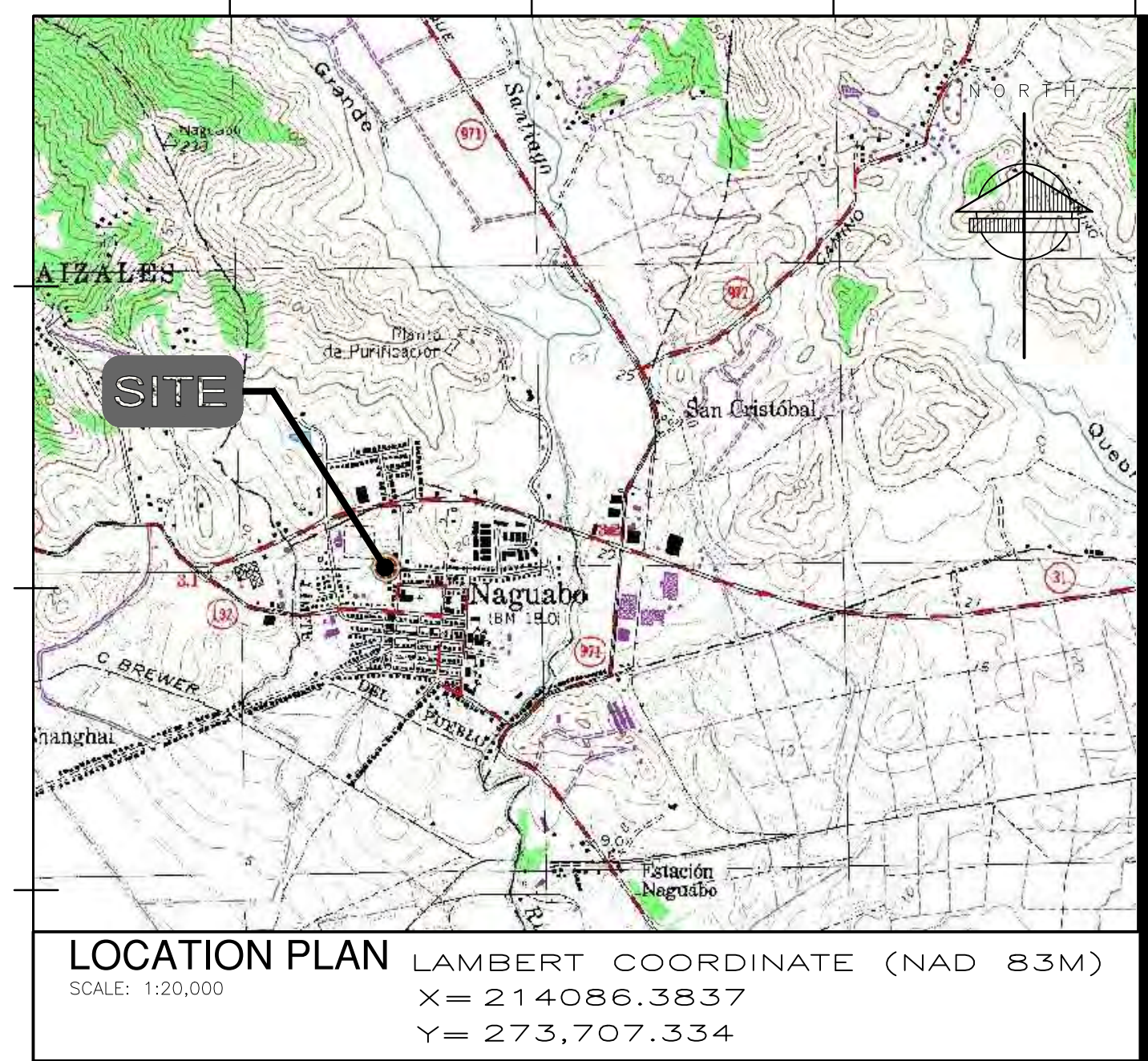
STRUCTURAL ROOF SECTIONS

TITLE

ST201

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CONSULTANT:

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MEJORAS A PLAZA DEL MERCADO
NAGUABO, PR

MUNICIPIO DE NAGUABO

PROJECT #:	53-002
SCALE:	AS SHOWN
DRAWN BY:	Author

ELECTRICAL SITE PLAN & LEGEND

TLE

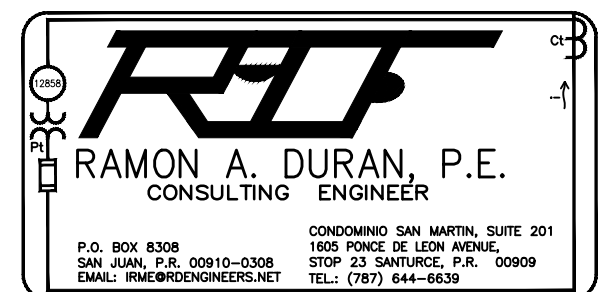
ES-1

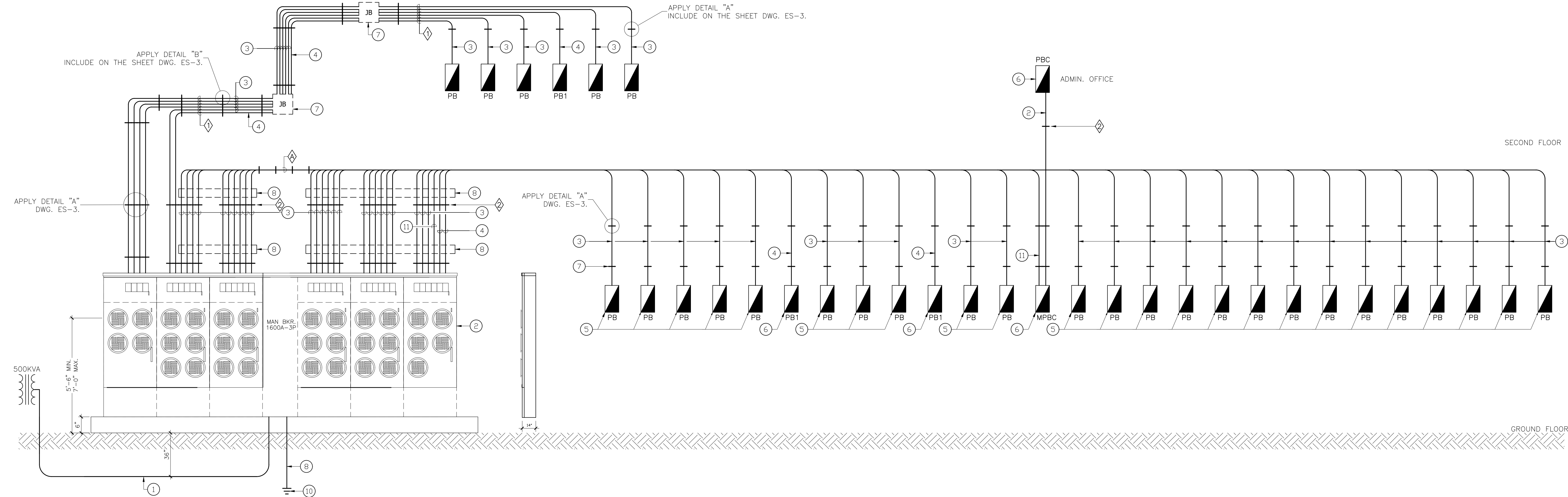
MEET

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01. THE CONTRACTOR IS RESPONSIBLE FOR THE DAMAGES CAUSED TO THE EXISTING UNDERGROUND FACILITIES (LUMA, PRASA, PRTCO, CTY, GAS LINE, ETC.).
02. ALL CONDUIT STREET OR PARKING CROSSING SHALL BE ENVELOPE IN 4" MIN. 3000 PSI CONCRETE.
03. THE CONTRACTOR HAS TO COORDINATE WITH THE EXCAVATION CENTER BEFORE STARTING ANY WORK THAT INVOLVES EXCAVATION. THIS OFFICE LOCATED IN THE FIVE FLOOR OF THE PUBLIC MINILAS BUILDING, EXECUTIVE ORDER OR 1997-42.
04. THE CONTRACTOR SHALL SUBMIT SHOP DRAWING OF THE PAD CONDUIT OF ALL ELECTRICAL WORKS AND INSTALLATION EQUIPMENT FOR APPROVED BY CONSULTAN ENGINEER BEFORE BEGIN WORKS.
05. UNLESS OTHERWISE INDICATED ALL PRIMARY RISER CONDUITS SHALL BE PVC SCH 80.

DWG BY: RAMON DURAN
LIC: 12858 P.E.





SINGLE LINE POWER RISER DIAGRAM

SCALE: N.T.S.

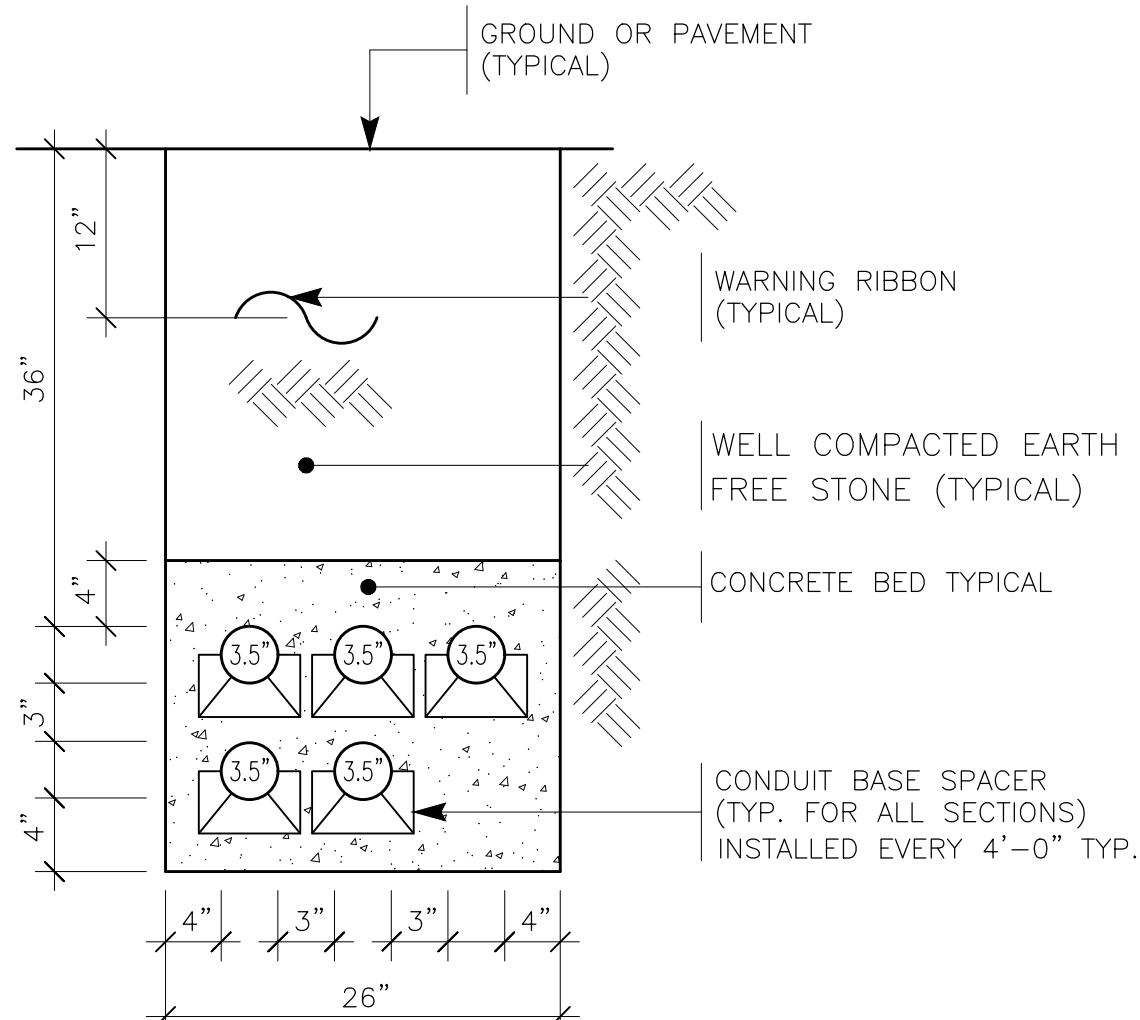
LEGEND RISER DIAGRAM:

- ① SECONDARY FEEDER 4 SETS (4W#500 MCM THWN-2, 90°C & 1W#4/0 THWN-2,90°C GND IN 3.5"Ø PVC SCH. 40), AND 1- 3.5"Ø SPARE 3.5"Ø PVC SCH. 40.
- ② 33 POSITION METER BANK OUTDOOR NEMA 3R, PAD MOUNTING, SHALL BE GALVANIZED STEEL GA. 14 CONSTRUCTION, 3PH, 4W, 120/208 VOLTS, 65,000 K.A.I.C., 2000 AMPS BUS, WITH MAIN BREAKER (1,600A-3P) 240 VOLTS, (29) METER SOCKET 1PH, 100 AMPS, 240 VOLTS, (3) METER SOCKET 3PH, 100 AMPS, 240 VOLT AND BREAKER 100A/3P, 240 VOLTS. AND (1) METER SOCKET 3PH, 200 AMP, 240 VOLTS & BREAKER 200A/3P, 240 VOLTS.
- ③ SECONDARY FEEDER 3W#2 THWN-2, 90°C & 1W#6 THWN-2, 90°C GND IN 2"Ø EMT.
- ④ SECONDARY FEEDER 4W#2 THWN-2, 90°C & 1W#6 THWN-2, 90°C GND IN 2"Ø EMT.
- ⑤ DISTRIBUTION PANELBOARD DEAD FRONT, 1PH, 3W, 120/208 VOLTS 5'-6" A.F.F.
- ⑥ DISTRIBUTION PANELBOARD DEAD FRONT 3Ø, 4W, 208/120 VOLTS. 5'-6" A.F.F.
- ⑦ 40" x 40" x 8" PULL BOX. NEMA 3R GALVANIZED STEEL.
- ⑧ PULL BOX SIZING SAME AS A REQUIRED NEMA 3R.
- ⑨ 5/8" x 8'-0" CADWELD CONNECTIONS GROUND ROD
- ⑩ 1W#250 MCM THWN-2, 90°C GND. IN 1" PVC SHC. 80.
- ⑪ SECONDARY FEEDER 4W#2/0 THWN-2, 90°C & 1W#6THWN, 90°C GND IN 2"Ø EMT.

EXISTING 500KVA TRANSFORMER 3PH, 120/208 VOLTS TO REMAIN.

NOTES:

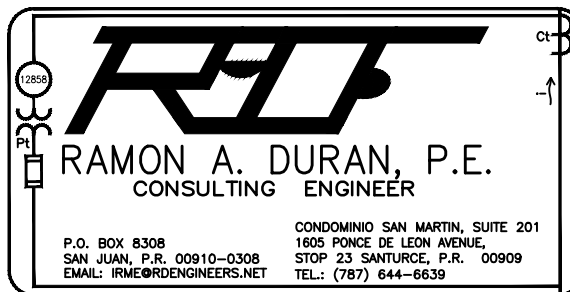
- ① APPLY DETAIL "A", DWG. ES-3
- ② APPLY DETAIL "B", DWG. ES-3



SECTION S-S
NOT TO SCALE



DWG BY: RAMON DURAN
LIC: 12858 P.E.



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CONSULTANT:

CERTIFIED BY:

REVISION / DATE / DESCRIPTION

PROJECT
MEJORAS A PLAZA DEL MERCADO
NAGUABO, PR

CLIENT
MUNICIPIO DE NAGUABO

PROJECT # 53-002

SCALE: AS SHOWN

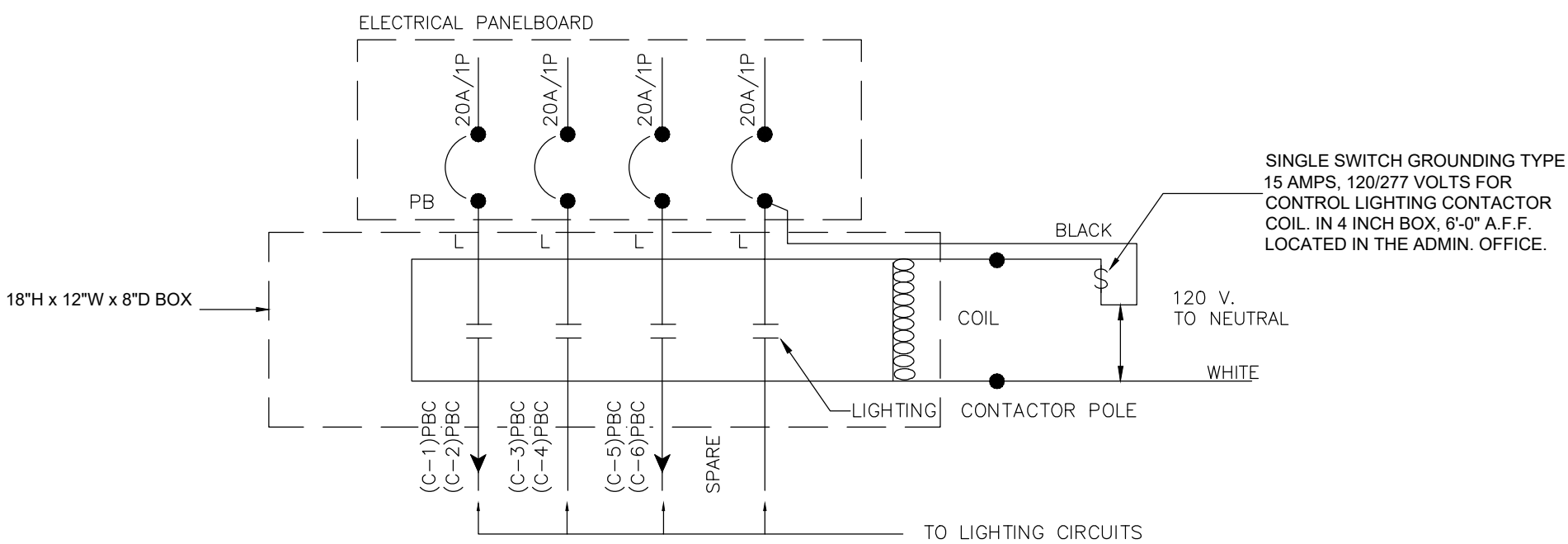
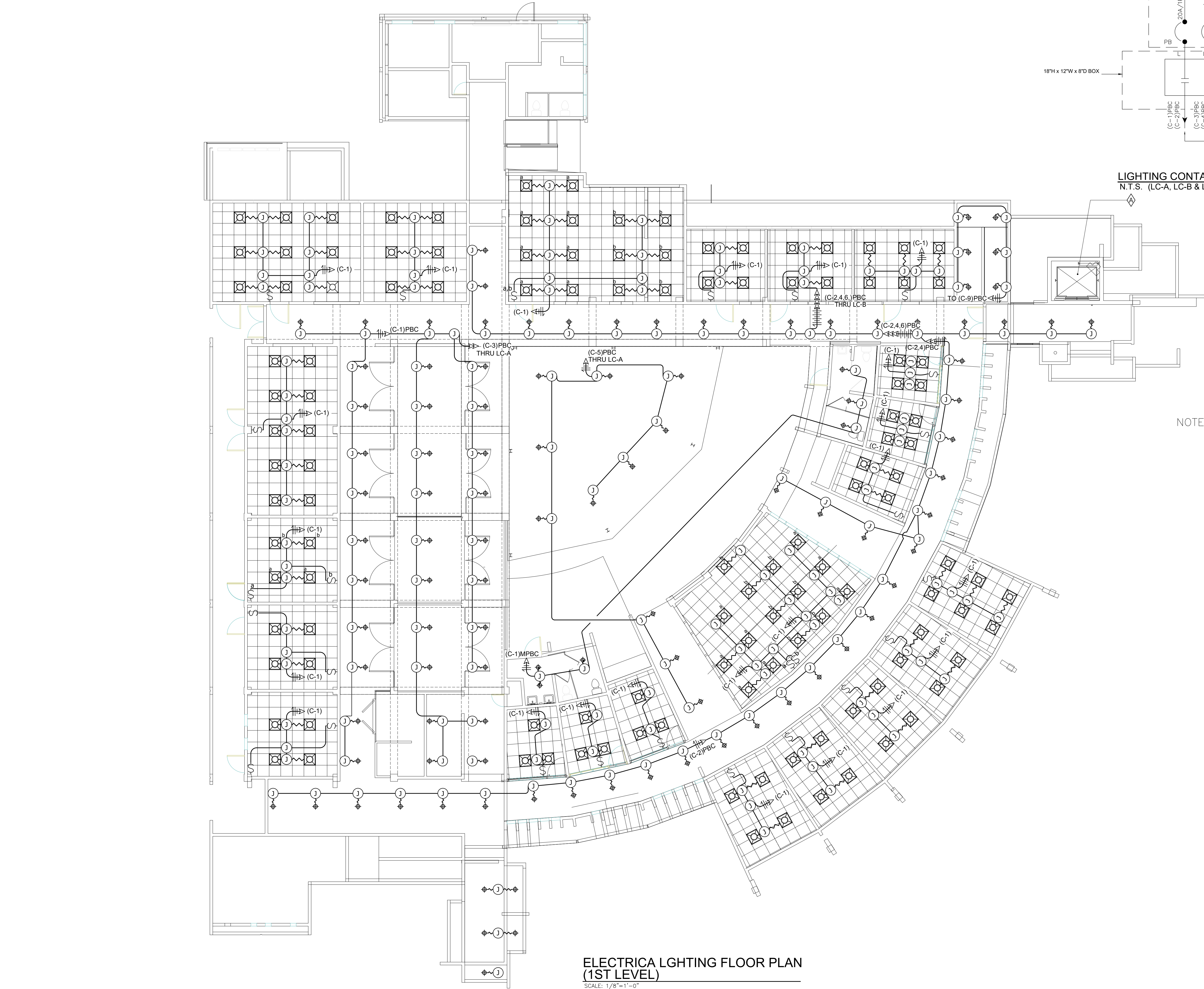
DRAWN BY: Author

RISER DIAGRAM

TITLE

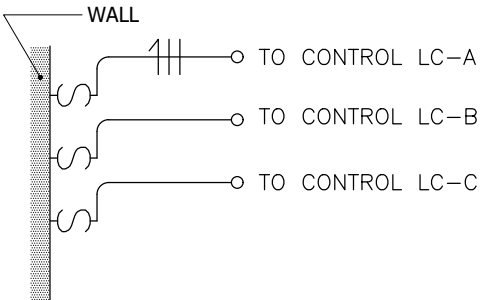
ES-2

SHEET



LIGHTING CONTACTOR INSTALLATION TYPICAL (LC-A,LC-B)
N.T.S. (LC-A, LC-B & LC-C) (FOR LC-C ARE THE CIRCUITS, (C-8,10)PBC.

NOTES: **A** THE ELEVATOR CIRCUITS ARE MOVED TO THE NEW COMMON PANEL (MPBC) WITH THE NEW WIRING ON THE SAME SITE AND WITH THE SAME PROTECTION AS THE EXISTING. THIS NOTE APPLIES TO THE OTHER ELECTRICAL UTILITIES OF THE ELEVATOR

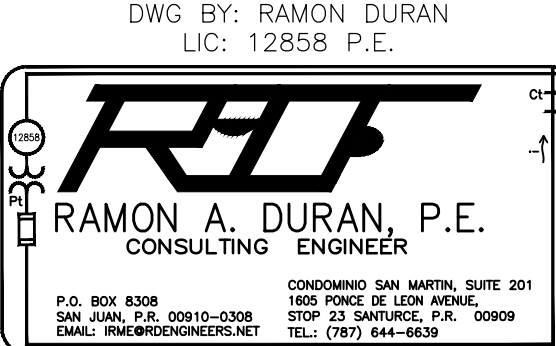


LIGHTING CONTACTOR SWITCHES
N.T.S. (LC-A, LC-B & LC-C) LOCATED INT THE ADMIN. AREA.

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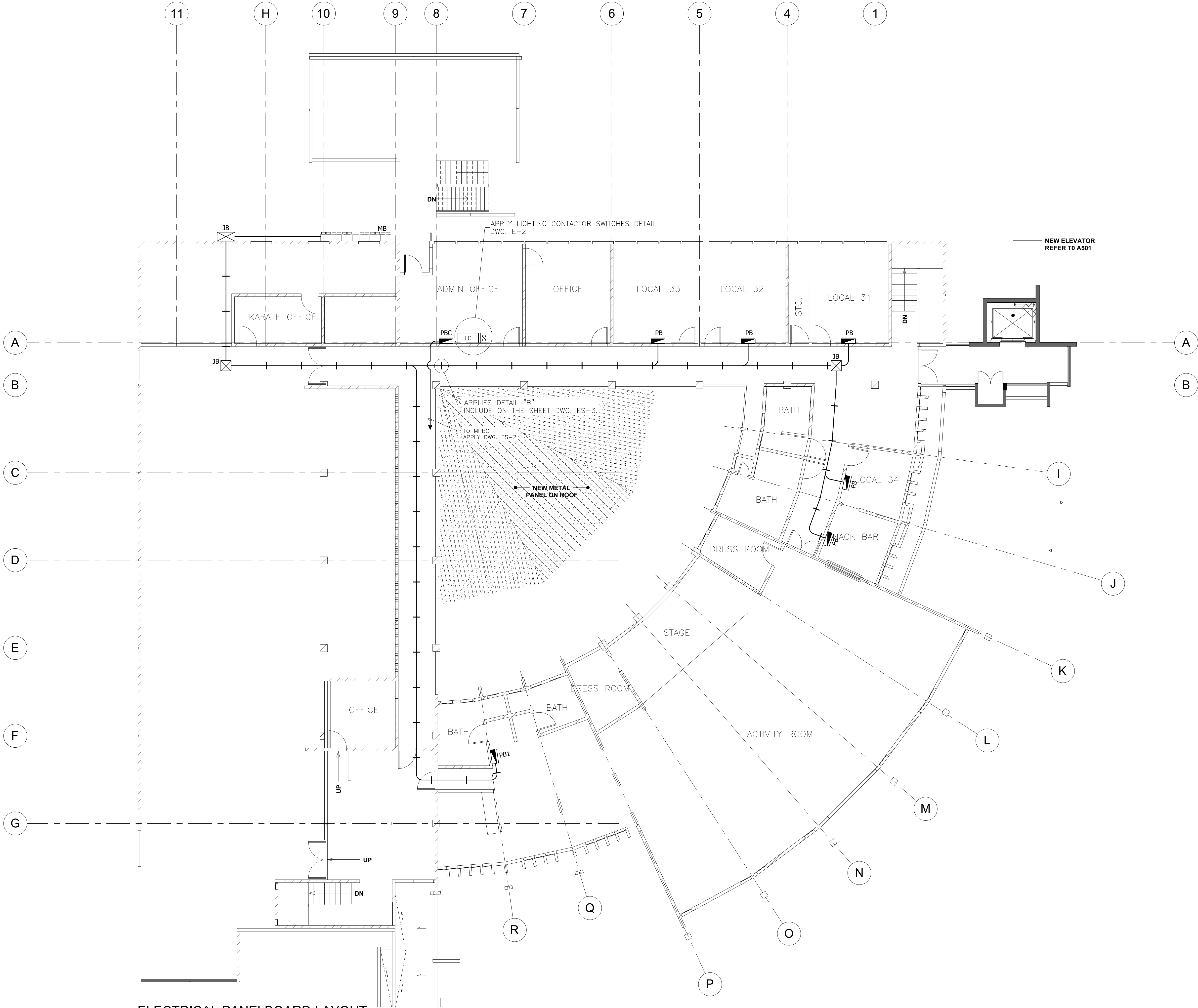
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NAGUABO, PR

MUNICIPIO DE NAGUABO

PROJECT 53-002
SCALE AS SHOWN
DRAWN BY Author

ELECTRICAL LIGHTING FLOOR PLAN - 1ST LEVEL

E-2

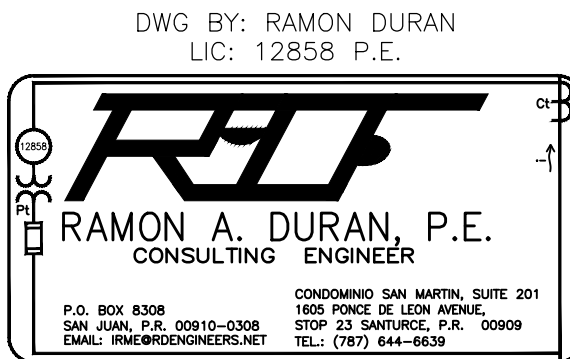


ELECTRICAL PANELBOARD LAYOUT
(2ND LEVEL)
SCALE: 1/8"=1'-0"

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NAGUABO, PR

CLIENT
MUNICIPIO DE NAGUABO

PROJECT # 53-002
SCALE: AS SHOWN
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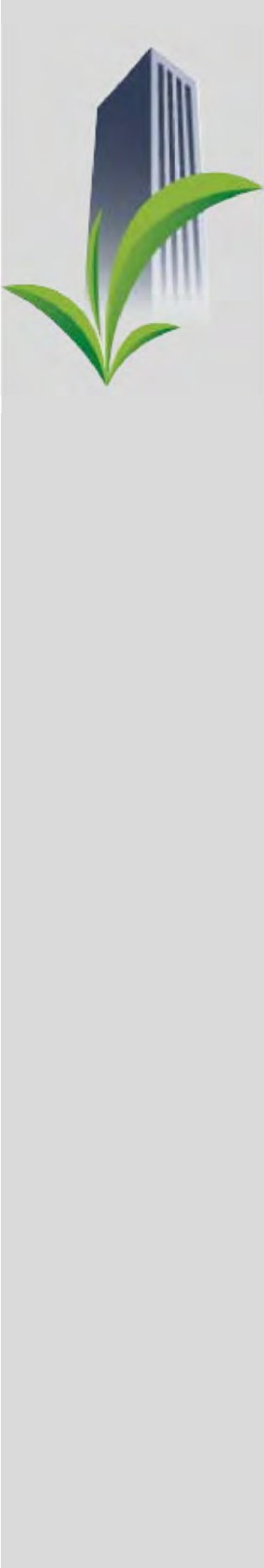
ELECTRICAL
PANELBOARD
LAYOUT- 2ND LEVEL

TITLE

E-5

SHEET

ATTACHMENT 00
LEAD BASED PAINT AND
ASBESTOS CONTAINING
MATERIAL
INSPECTION REPORTS



Selective Asbestos Containing Building Materials Sampling Report

Project:
Selective Areas of
Plaza del Mercado de Naguabo,
Naguabo, Puerto Rico

Client:
EM Architects

ZEM-22187
September 2022

Prepared By:

Zimmetry Environmental Management, Corp.
www.zimmetry.com
info@zimmetry.com

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SECTION 1: EXECUTIVE SUMMARY

1.1 INTRODUCTION

A Selective Asbestos Containing Building Materials (ACBM) Inspection was conducted on September 1, 2022 at Selective Areas of Plaza del Mercado de Naguabo located in Naguabo, Puerto Rico. Refer to *Appendix D: Improvement Plans* for specific project locations provided by the client. The asbestos containing building materials sampling was performed to identify material that contains asbestos fibers above allowable levels and to assist with the compliance of local, state and federal regulations.

1.2 SUMMARY OF PROPERTY EVALUATION

The project consisted of the evaluation of the selective interior and exterior of the aforementioned property (refer to *Appendix D: Improvement Plans* for specific project locations). The evaluation found that asbestos fibers were present at the selective materials. For specific locations and additional details on the location of ACBM reference Sections 2 and 3. If suspected components and surfaces that were not previously evaluated are identified in the facilities they shall be considered as containing asbestos until the appropriate analysis is performed.

1.3 PROPERTY LOCATIONS OF BUILDING COMPONENTS WITH ASBESTOS

Table 1-1 summarizes the property components containing asbestos fibers. Details that identify positive asbestos findings within specific areas and on surfaces were provided in the Asbestos Sampling inspection report, Section 2. The quantification of positives materials presented in Table 1-1 is only an estimate. If an abatement of the materials will be conducted the Contractors shall estimate the amount of materials to be abated. If homogeneous materials that were not accounted for are identified in areas that are not described they shall be managed as asbestos containing material.

Table 1-1: Summary of Building Components Containing Asbestos		
Location (Area)	Component	Amount (Approx.)
Window Areas	Window Caulking	Undetermined

SECTION 2: ASBESTOS CONTAINING BUILDING MATERIALS INSPECTION REPORT

2.1 OVERVIEW OF THE EVALUATION

This ACBM inspection was a selective evaluation to identify the location of material containing asbestos that exist within. Our scope of work services for this project consisted of the following tasks.

- A walk-through and observation of the site was performed.
- Bulk sampling of Suspected ACBM within the structure.
- Polarized Light Microscopy (PLM) Analysis of bulk samples.
- Final Inspection Report.

Throughout the inspection the following suspected ACBM were observed and sampled:

- Door Caulking
- Vinyl Tile (12 x 12)
- Roofing Material
- Window Caulking

The sampling was conducted by the Department of Natural and Environmental Resources (DRNA) of Puerto Rico and United States Environmental Protection Agency (USEPA) accredited Inspectors qualified by experience, education and training in the recognition of potential ACBM and approved bulk sampling techniques. Some areas may not have been directly accessible due to the physical hazards encountered within. In these areas, if any, assumptions based on findings in other areas were made whenever possible. These assumptions, if any, are duly noted as such in this report.

The inspection was performed in accordance with Environmental Protection Agency recommended procedures found in EPA-450/2-78-014 (Parts I and II), EPA 560/5-85-024, and 40 CFR 763. These procedures call for the visual inspection of the building for suspect friable material and collection and analysis of representative samples of suspect material.

2.2 SAMPLING PROCEDURE AND RESULTS PRESENTATION

The bulk sampling procedures utilized for the collection of the ACBM, required the establishment of homogeneous sampling areas. A homogeneous sampling area is defined as an area of friable or non-friable material of similar type that appears to be applied or constructed during the same time period.

Samples collected from these predetermined homogeneous sampling areas were labeled and transported for analysis. Sample locations were identified by their current use or functional space name. Each type of asbestos displays a unique property when subject to PLM. Properties are unique to crystalline asbestos form and; therefore, can be used to identify the type of asbestos mineral as chrysotile, amosite, crocidolite, anthophyllite, tremolite and actinolite.

Percentage of each asbestos mineral type is determined by visual estimation, by mixing the sample thoroughly to provide a more accurate percentage. Any material containing over one percentage (>1%) by weight of any type of asbestos mineral forms is considered by the USEPA to be asbestos containing material; and if disturbed, it must be handled according to specific State and Federal Regulations.

Eight (8) samples of suspected materials were collected. It is our opinion that an acceptable minimum number of critical areas were sampled in keeping with the homogeneous nature of much of the material that was observed. Non-destructive sampling techniques were used. If they exist, walls, ceilings, columns and other inaccessible areas were not broken into. It should be noted that these inaccessible areas may contain ACBM which was not observed during the inspection. Any future construction or renovation should anticipate the presence of these materials.

The samples were received and analyzed by Analytical Environmental Services, Inc. in Atlanta GA (Certified Proficient by the National Institute of Science and Technology NVLAP program for bulk sample asbestos analysis; Laboratory Id 102082-0). The method of analysis was polarized light microscopy with dispersion staining, as recommended by the US EPA. This survey focused on the building materials, which are present throughout the interior and exterior of the building structure.

2.3 FINDINGS AND RECOMMENDATIONS

2.3.1 INTRODUCTION

This section describes the asbestos containing building materials (ACBM), which were observed in the inspection selective areas (refer to *Appendix D: Improvement Plans* for specific project locations provided by the client). Please note that the recommendations given are always the minimum action, which in our professional judgment should be taken.

There was one type of Asbestos Containing Building Materials found within the evaluated property:

- Window Caulking

If this material is to be removed, they should be managed and disposed by a licensed asbestos contractor and disposed of as contaminated waste in as approved asbestos landfill site.

2.3.2 SPECIFIC FINDINGS

The following ACBM were found to contain more than one percent (1%) of asbestos by weight and are listed according to their homogeneous area:

1. Window Caulking Samples: 22187-03 & 22187-04

These materials are in a non-friable condition and the analytical result range is 2% Chrysotile asbestos.

2.3.3 HOMOGENEOUS AREAS WITH SPECIAL CONSIDERATIONS

NONE

2.3.4 SUSPECT MATERIALS PRESUMED TO BE ASBESTOS-CONTAINING MATERIALS WITHOUT LABORATORY ANALYSIS

NONE

2.3.5 INACCESSIBLE AREAS

NONE

2.4 CONDITIONS AND LIMITATIONS—DISCLAIMER

Zimmetry Environmental Management Corp. has performed this asbestos containing building materials inspection in a thorough and professional manner consistent with commonly accepted industry standards. The Preparer cannot guarantee and does not warrant that this evaluation has identified all adverse environmental factors and/or conditions affecting this property on the date of the evaluation. If suspected materials are identified they shall be managed as containing asbestos until the appropriated laboratory analysis is performed. The quantification of positives materials presented in the table 1-1 is only an estimate. If an abatement of the materials will be conducted the Contractors shall estimate the amount of the materials to be abated.

The results reported and conclusions reached by the Preparer are solely for the benefit of the Owner and occupants. The results and opinions in this report, based solely on the conditions found at the property on the date of the evaluation, are valid only on that date. The Preparer assumes no obligation to advise the client of any changes in any real or potential asbestos hazards at this structure beyond the date of the property evaluation.

2.5 ABATEMENT CONDITIONS

The US Environmental Protection Agency rules concerning the application, removal, and disposal of Asbestos Containing Building Materials (ACBM) were issued under the asbestos NESHAP (U.S. EPA National Emission Standards of Hazardous Air Pollutants, 40 CFR 61 Subpart M, October 30, 1987). The asbestos **N.E.S.H.A.P.** regulation governs asbestos demolition and renovation projects in all facilities. The NESHAP rule usually requires owners or operators to have all friable ACBM removed before a building is demolished, and may require its removal before a renovation. The Department of Natural and Environmental Resources (DRNA) of Puerto Rico requires inspecting the presence of Asbestos Containing Materials prior to buildings demolitions.

If the identified materials are to be removed, they should be managed following the work practices and procedures for the removal and disposal of asbestos containing materials by a licensed asbestos contractor and disposed of as contaminated waste in as approved asbestos landfill site. The Contractor shall comply with all the Department of Natural and Environmental Resources (DRNA) of Puerto Rico requirements. The Contractor has to submit to the DRNA the abatement work plan for its approval. The asbestos abatement is classified Class II for the miscellaneous materials by OSHA, which includes the abatement, packing and storage of asbestos. The abatement has to be performed without damaging any structure or adjacent area and protecting the safety and health of the employees and the general public.

2.6 ENVIRONMENTAL ASSESSMENT REPORT CERTIFICATION

Zimmetry Environmental Management Corp. has performed this asbestos containing building materials inspection in a thorough and professional manner consistent with commonly accepted industry standards. The ACBM inspection was performed on September 1, 2022 by Ramón Rosado, ASB-1121-0598-SI, qualified by experience, education and training in the recognition of asbestos containing materials and approved sampling techniques.



Ramón Rosado
Environmental Building Consultant

SECTION 3: APPENDICES

Appendix A: Certifications, Licenses and Accreditations

Appendix B: Laboratory Results & Chain of Custody

Appendix C: Photographic Record

Appendix D: Demolition/Improvement Plans

APPENDIX A: CERTIFICATIONS, LICENSES, AND ACCREDITATIONS

	TARJETA DE REGISTRO LA REMOCION PARA DE ASBESTO
	Esta tarjeta autoriza a:
	<u>Ramón Rosado Izquierdo</u>
	Inspector
	A trabajar en la remoción de asbesto en Puerto Rico. Esta persona NO es un empleado del DRNA.
ASB-1121-0598-SI	
Número de Registro	Firma Autorizada - Departamento
<u>2-Nov-2022</u>	Recursos Naturales y Ambientales
Fecha de vencimiento	

APPENDIX A: CERTIFICATIONS, LICENSES, AND ACCREDITATIONS

United States Department of Commerce
National Institute of Standards and Technology

NVLAP[®]

Certificate of Accreditation to ISO/IEC 17025:2017

NVLAP LAB CODE: 102082-0

Analytical Environmental Services, Inc.
Atlanta, GA

*is accredited by the National Voluntary Laboratory Accreditation Program for specific services,
listed on the Scope of Accreditation, for:*

Asbestos Fiber Analysis

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality
management system (refer to joint ISO-ILAC-IAF Communiqué dated January 2009).*

2021-10-01 through 2022-09-30
Effective Dates




For the National Voluntary Laboratory Accreditation Program

APPENDIX B: LABORATORY RESULTS AND CHAIN OF CUSTODY

2209775

ZIMMETRY ENVIRONMENTAL MANAGEMENT CORP.

PO BOX 3545 BAYAMÓN, PR 00958

(787)376-9010 Phone (787)995-0005 Fax

email: hpena@zimmetry.com Web: www.zimmetry.com

Analytical Environmental Services, Inc.

Accounts Receivable

3080 Presidential Drive, Atlanta GA 30340-3704

Phone (770) 457-8177 Fax (770) 457-8188

**CHAIN OF CUSTODY
BULK ASBESTOS SAMPLE**Project Name: Plaza del Mercado de NaguaboContact: Harry PeñaProject Location: Naguabo, PRSamplers Name: Ramón RosadoProject Number: ZEM-22187Sampling Date: 9/1/2022

	Sample ID	Sample Description	Sample Location	Analysis Requested	Turnaround Time	Comments	For AES Use Only
1	22187-01	Roofing Material	Interior Patio Metal Roof	PLM	Regular	5 Days	
2	22187-02	Roofing Material	Interior Patio Metal Roof	PLM	Regular	5 Days	
3	22187-03	Window Caulking	Office #31	PLM	Regular	5 Days	
4	22187-04	Window Caulking	2nd Floor Lobby	PLM	Regular	5 Days	
5	22187-05	Door Caulking	Puesto #1	PLM	Regular	5 Days	
6	22187-06	Door Caulking	Puesto #4	PLM	Regular	5 Days	
7	22187-07	Cream Vinyl Tile (12x12)	Puesto #7 & #8	PLM	Regular	5 Days	
8	22187-08	Cream Vinyl Tile (12x12)	Puesto #7 & #8	PLM	Regular	5 Days	
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

Relinquished by: Alicia García

Date/Time: 9/2/2022 15:00

FOR LAB USE ONLY

Lab Recipient:

LEILA DYE

Date/Time:

9/6/229:54

Method of Shipment:

FED EX



3080 Presidential Drive
Atlanta, GA 30340
Tel : (770) 457-8177
Fax: (770) 457-8188

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

Bulk Sample Summary Report



Report Date: 13-Sep-22

Client Name: **Zimmetry Environmental Mgmt Corp.**

AES Job Number: **2209775**

Project Name: **Plaza del Mercado de Nahuabo**

Project Number: **ZEM-22187**

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
22187-01 Layer: 1	2209775-001A	Roofing Material	ND	ND	ND	ND	ND	ND	
22187-02 Layer: 1	2209775-002A	Roofing Material	ND	ND	ND	ND	ND	ND	
22187-03 Layer: 1	2209775-003A	Window Caulking	2	ND	ND	ND	ND	ND	Paint included as binder
22187-04 Layer: 1	2209775-004A	Window Caulking	2	ND	ND	ND	ND	ND	Paint included as binder
22187-05 Layer: 1	2209775-005A	Door Caulking	ND	ND	ND	ND	ND	ND	Paint included as binder
22187-06 Layer: 1	2209775-006A	Door Caulking	ND	ND	ND	ND	ND	ND	Paint included as binder

Note: CH=chrysotile, AM=amosite, CR=crocidolite, AC=actinolite, TR=tremolite, AN=anthophyllite

For comments on the samples, see the individual analysis sheets.

ND = None Detected

AES, Inc. is accredited by NIST's National Voluntary Laboratory Accreditation Program (NVLAP) for Polarized Light Microscopy (PLM) analysis, Lab Code 102082-0. All analyses performed in accordance with EPA "Interim Method for the Determination of Asbestos in Bulk Insulation Samples" (EPA 600/M4-82-020), 1982 as found in 40 CFR, Part 763, Appendix E to Subpart E and "Method for the Determination of Asbestos in Bulk Building Materials" (EPA/600/R-93/116), 1993.

These test results apply only to those samples actually tested, as submitted by the client. All percentages are reported by visually estimated volume.

PLM is not consistently reliable in detecting small concentrations of asbestos in floor tiles and similar nonfriable materials, quantitative TEM is currently the only method that can be used to determine conclusive asbestos content.

This report must not be reproduced except in full without written approval of Analytical Environmental Services, Inc.

Microanalyst:

Elena Ivanova

QC Analyst:

Yelena Khanina



3080 Presidential Drive
Atlanta, GA 30340
Tel : (770) 457-8177
Fax: (770) 457-8188

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

Bulk Sample Summary Report



Report Date: 13-Sep-22

Client Name: **Zimmetry Environmental Mgmt Corp.**

AES Job Number: **2209775**

Project Name: **Plaza del Mercado de Naguabo**

Project Number: **ZEM-22187**

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
22187-07 Layer: 1	2209775-007A	Cream Vinyl Tile (12x12)	ND	ND	ND	ND	ND	ND	Floor tile with glue
22187-08 Layer: 1	2209775-008A	Cream Vinyl Tile (12x12)	ND	ND	ND	ND	ND	ND	Floor tile with glue

Note: CH=chrysotile, AM=amosite, CR=crocidolite, AC=actinolite, TR=tremolite, AN=anthophyllite

For comments on the samples, see the individual analysis sheets.

ND = None Detected

AES, Inc. is accredited by NIST's National Voluntary Laboratory Accreditation Program (NVLAP) for Polarized Light Microscopy (PLM) analysis, Lab Code 102082-0. All analyses performed in accordance with EPA "Interim Method for the Determination of Asbestos in Bulk Insulation Samples" (EPA 600/M4-82-020), 1982 as found in 40 CFR, Part 763, Appendix E to Subpart E and "Method for the Determination of Asbestos in Bulk Building Materials" (EPA/600/R-93/116), 1993.

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PLM is not consistently reliable in detecting small concentrations of asbestos in floor tiles and similar nonfriable materials, quantitative TEM is currently the only method that can be used to determine conclusive asbestos content.

This report must not be reproduced except in full without written approval of Analytical Environmental Services, Inc.


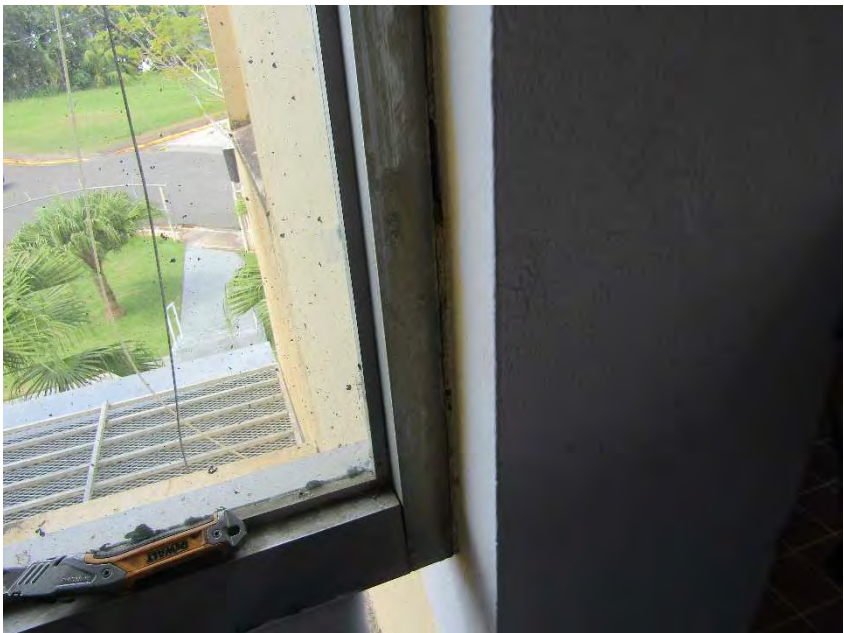
Microanalyst:

Elena Ivanova

QC Analyst:

Yelena Khanina

APPENDIX C: PHOTOGRAPHIC RECORD

Photo No. 3553	Date: 09/01/2022	
Description: Office #31 Asbestos containing window caulking.		
Photo No. 3555	Date: 09/01/2022	
Description: Office #31 Asbestos containing window caulking.		

Photographic Documentation is for reference purposes and doesn't necessarily include all the surfaces with asbestos.

APPENDIX D: IMPROVEMENT PLANS



LOCATION PLAN
x: 273857.6303, y: 242055.1035



ZONING PLAN



FLOOD MAP PANEL
72000C0895J



MUNICIPIO DE NAGUABO
HON. MIRAILDIZ ROSARIO PAGÁN

MEJORAS A PLAZA DEL MERCADO

NAGUABO, PUERTO RICO

PLANOS ESQUEMATICOS
8/JUNIO/2022

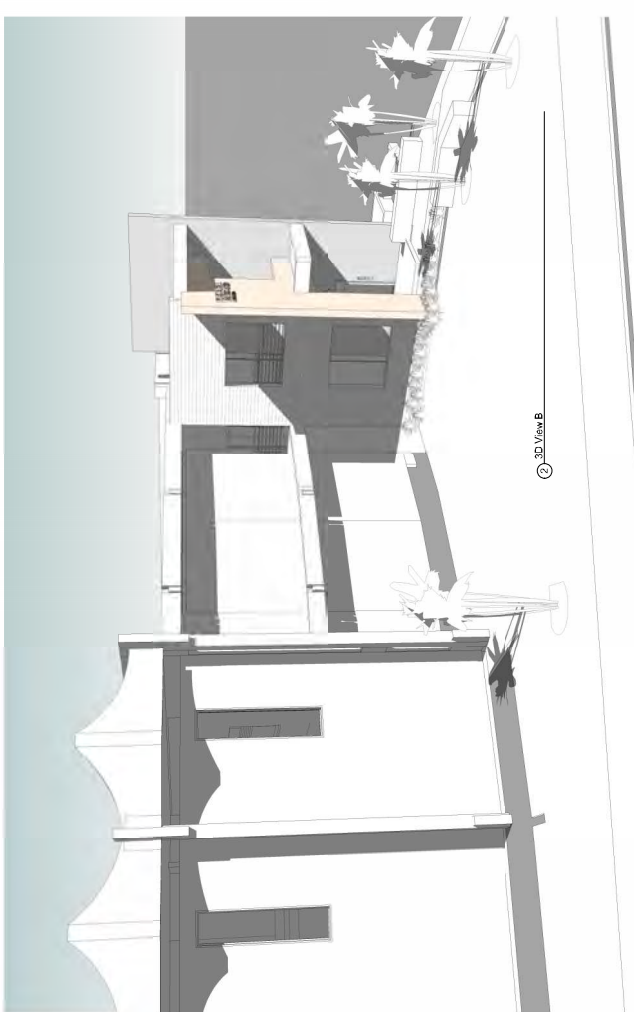
DRAWING INDEX

SHEET	NO. IN CLATURE	SHEET NAME
01	T100	TITLE SHEET
02	DA2101	EXISTING SITE PLAN
03	DA2102	EXISTING & DEMOLITION PLAN - 1ST LEVEL
04	DA2103	EXISTING & DEMOLITION PLAN - 2ND LEVEL
05	DA2104	EXISTING & DEMOLITION ELEVATIONS
06	DA2105	PROPOSED ELEVATIONS
07	AA01	ACCOMMODATION VIEW
08	AA02	ARCHITECTURAL FLOOR PLAN - 1ST LEVEL
09	AA03	ARCHITECTURAL FLOOR PLAN - 2ND LEVEL
10	AA04	ARCHITECTURAL SECTION - MAIN ENTRANCE
11	AA05	ENLARGED VIEW ELEV. SECTION - MAIN ENTRANCE
12	AA06	

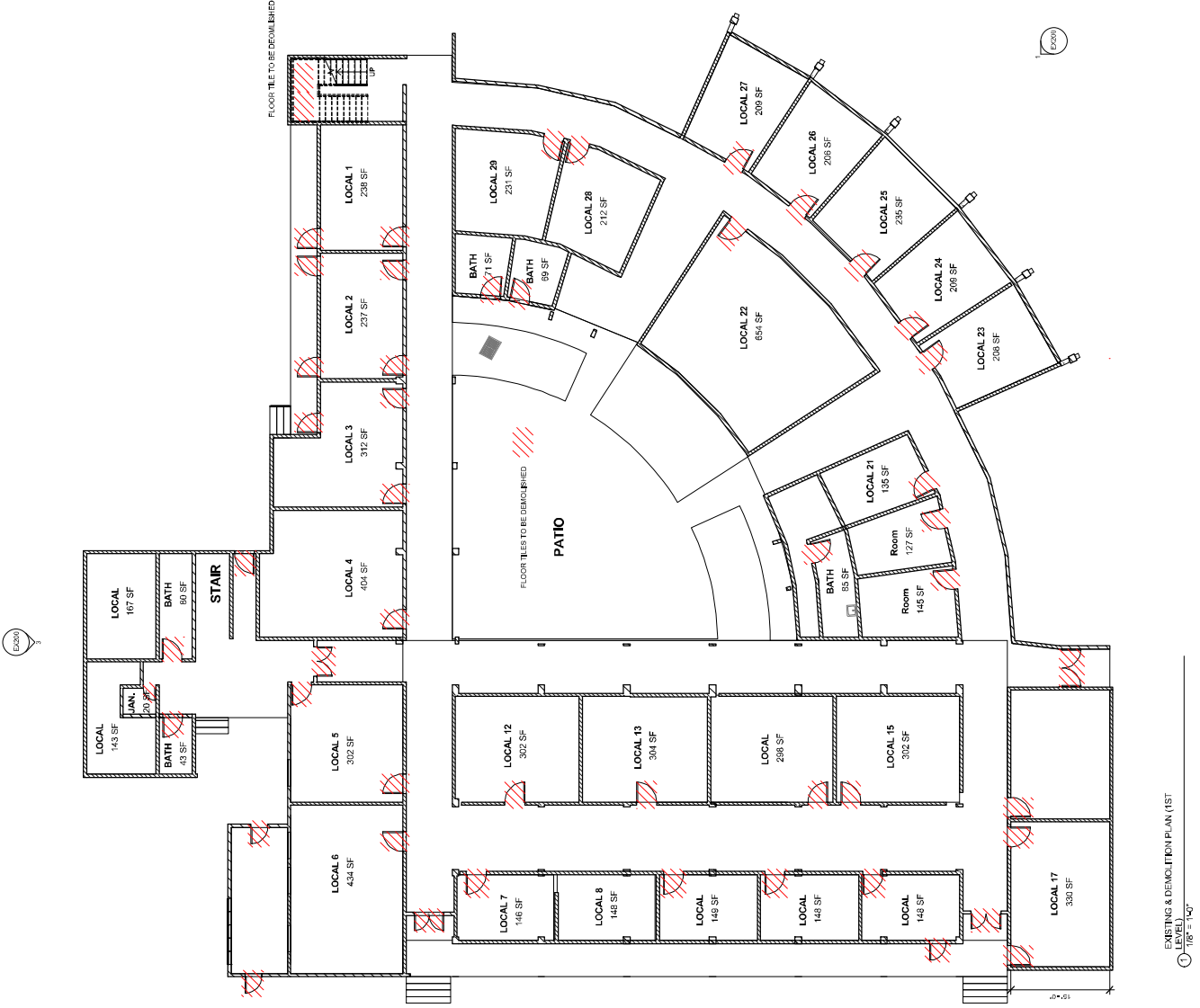




① PROPOSED SITE PLAN
1/16" = 1'-0"



TO BE DEMOLISHED
EXISTING STRUCTURE



EXISTING & DEMOLITION PLAN (1ST LEVEL)
1/8" = 1'-0"

EN ARCHITECTS
AND URBAN PLANNERS S.A.
CALLE 100 No. 24-100, 2do. Piso
San José, Costa Rica
Tel: (506) 2222-1000
Fax: (506) 2222-1001
www.en-architects.com

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MEJORAS A PLAZA DEL MERCADO
NAGUABO, PUERTO RICO
CLIENT
MUNICIPIO DE NAGUABO

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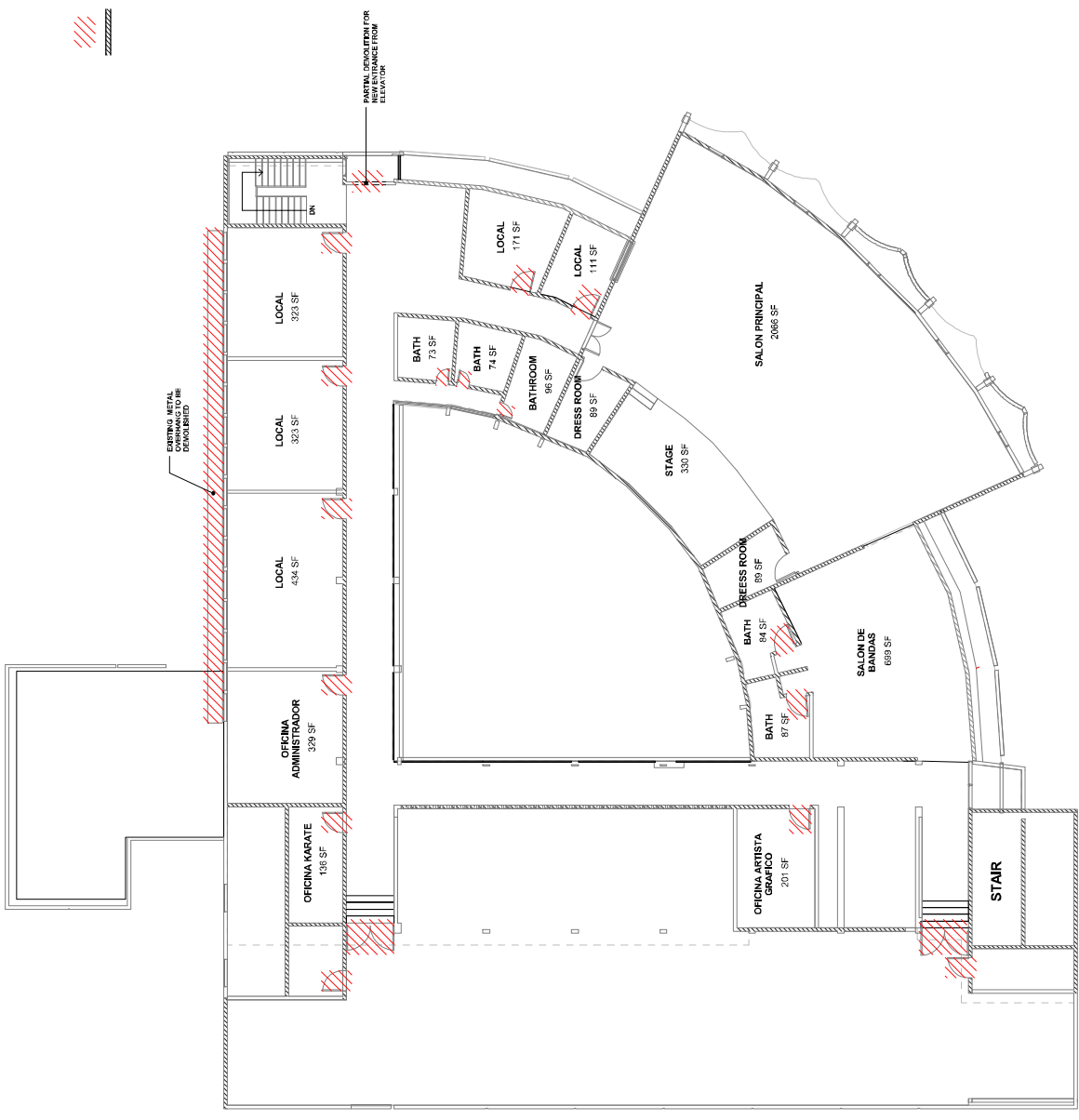
PROYECTO

FECHA

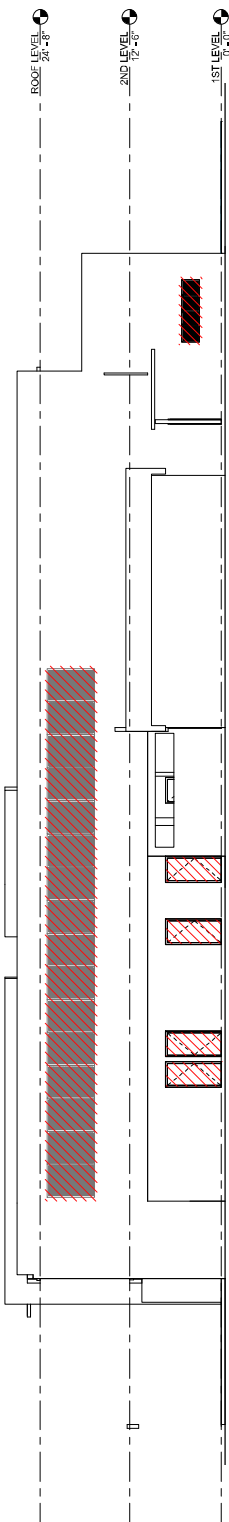
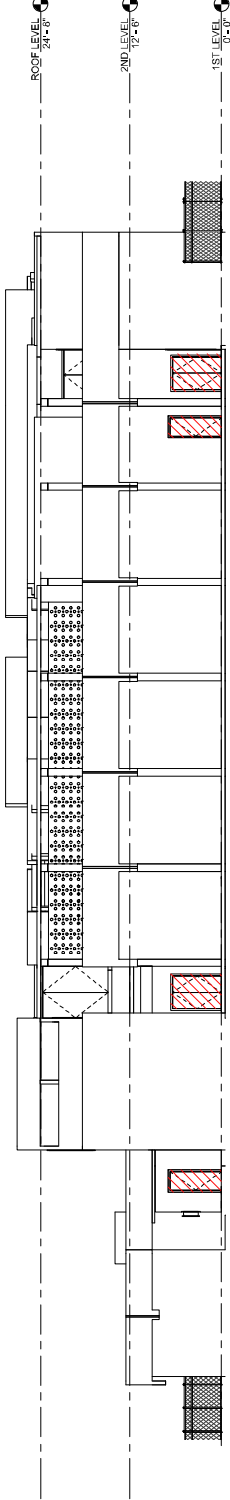
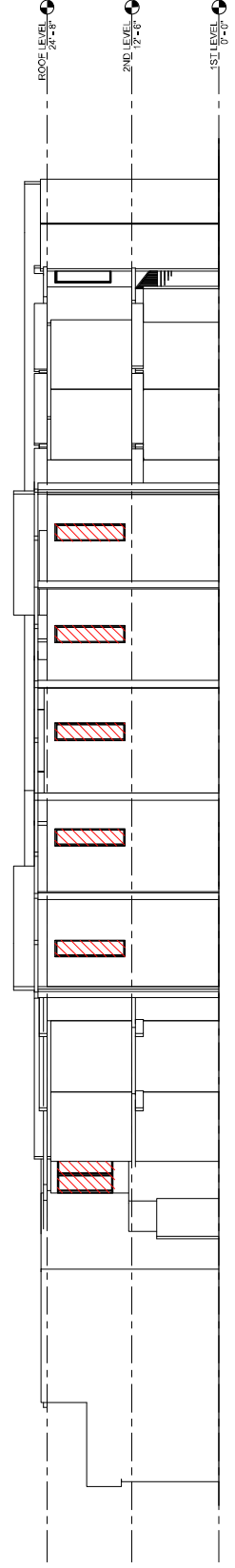
EXISTING &
DEMOLITION PLAN
-2ND LEVEL

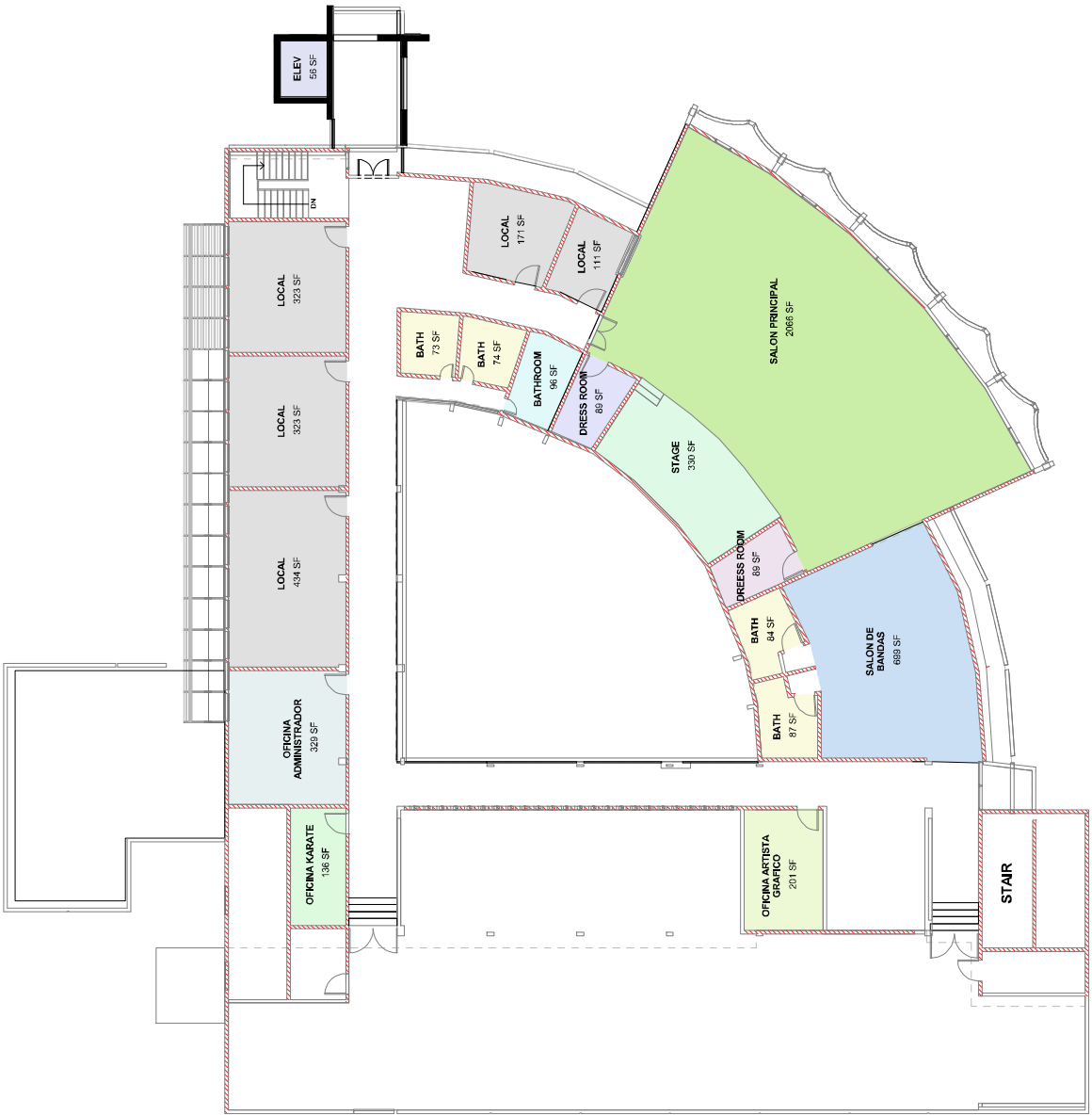
EX102

TO BE DEMOLISHED
EXISTING STRUCTURE



EXISTING & DEMOLITION PLAN (2ND LEVEL)
1/10" = 1'-0"





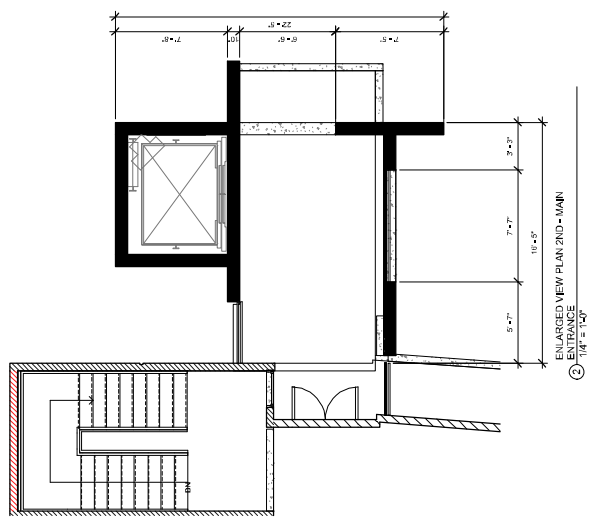
ARCHITECTURAL FLOOR PLAN (2ND LEVEL)
1/8" = 1'-0"

REVISION / DATE / DESCRIPTION

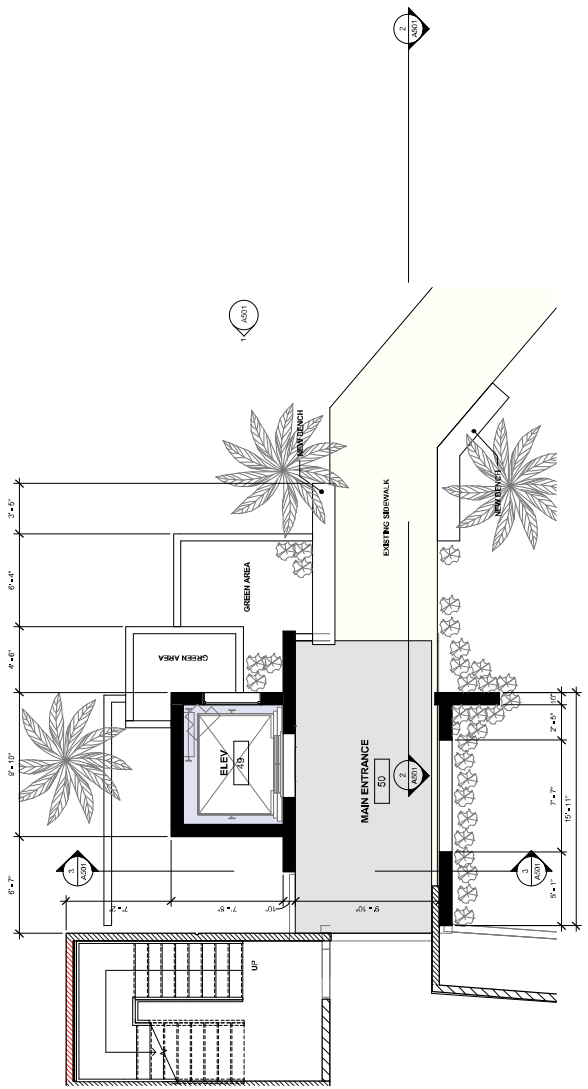
DATE: 11/11/2021

PROJECT: MEJORAS A PLAZA DEL MERCADO

CLIENT: MUNICIPIO DE NAGUABO



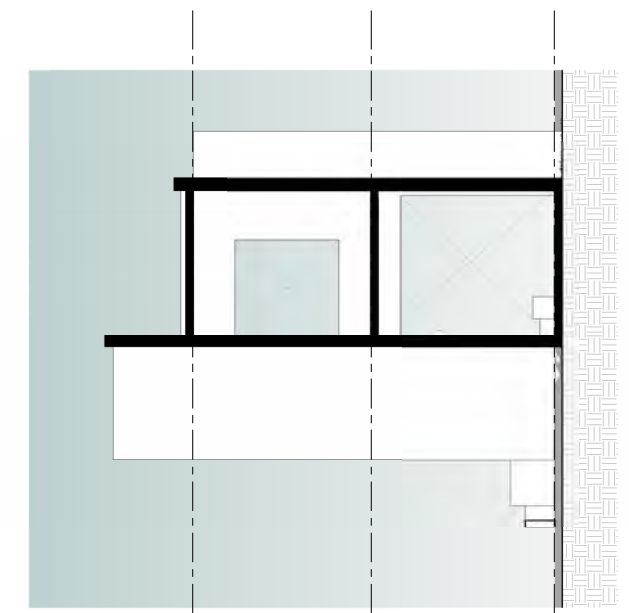
ENLARGED NEW PLAN 2ND - MAIN
ENTRANCE
1/4" = 1'-0"



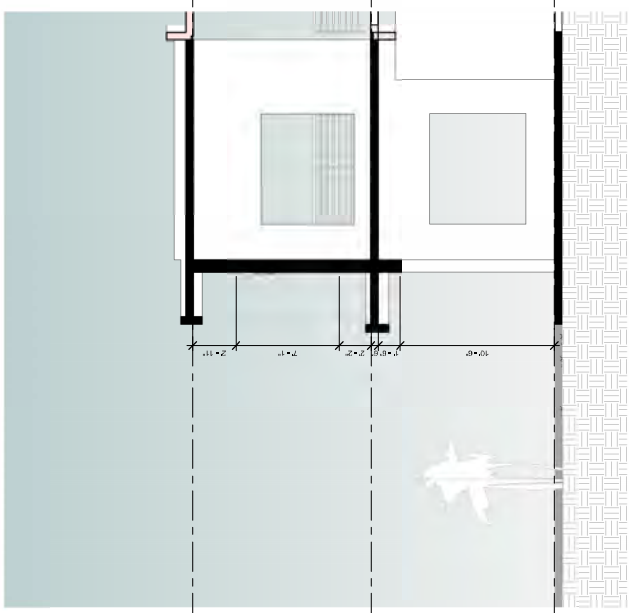
ENLARGED NEW PLAN 1ST - MAIN
ENTRANCE
1/4" = 1'-0"



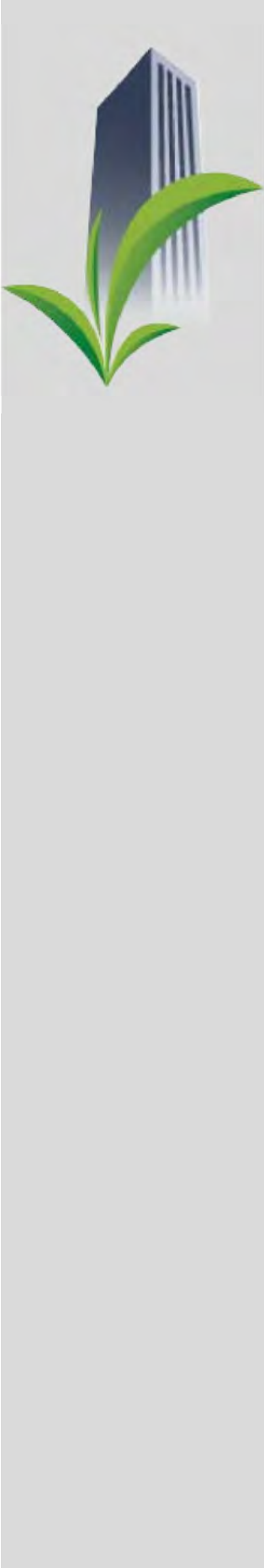
① Elevation 0 - BLOW UP
1/4" = 1'-0"



③ Section 31 BLOW UP
1/4" = 1'-0"



② Section 30 BLOW UP
1/4" = 1'-0"



Selective Lead Based Paint Inspection Report

Project:
Selective Areas of
Plaza del Mercado de Naguabo,
Naguabo, Puerto Rico

Client:
EM Architects

ZEM-22187
September 2022

Prepared By:

Zimmetry Environmental Management, Corp.
www.zimmetry.com
info@zimmetry.com

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SECTION 1: EXECUTIVE SUMMARY

1.1 INTRODUCTION

A Selective Lead-Based Paint inspection was conducted on September 1, 2022 at Selective Areas of Plaza del Mercado de Naguabo located in Naguabo, Puerto Rico. Refer to *Appendix F: Improvement Plans* for specific project locations provided by the client. The lead-based paint inspection was performed to identify paint that contains lead above allowable levels and to assist with the compliance of local, state and federal regulations.

1.2 SUMMARY OF PROPERTY EVALUATION

The project consisted of the evaluation of selective interior and exterior areas of the aforementioned property (refer to *Appendix F: Demolition/Improvement Plans* for specific project locations). The evaluation found that lead based paint was present in selective components and surfaces through the property on the date of the inspection. Table 1-1 identifies the components positive for lead. Table 2-1 identifies lead-based paint as defined by the U.S. Environmental Protection Agency (EPA) and the Department of Natural and Environmental Resources (DRNA) of Puerto Rico. For specific locations and additional detail on the location of lead- reference Sections 2 and 3.

1.3 PROPERTY LOCATIONS OF BUILDING COMPONENTS WITH LEAD-BASED PAINT

Table 1-1 summarizes the site components and surfaces coated with lead-based paint. Details that identify positive lead-based paint findings within specific areas and on surfaces were provided in the lead-based paint inspection report. The “substrate” is the building component material directly beneath the painted surface. Photographic documentation is for reference purposes and doesn't necessarily include all the surfaces with lead based paint and/or components containing lead. The quantification of positives materials presented in this table is only an estimate. If an abatement of the materials will be conducted, the Contractors shall estimate the amount of materials to be abated.

If homogeneous materials that were not accounted for are identified in areas that are not describe in this report or inaccessible areas described in Section 2.3.3, they shall be managed as containing lead. If suspected components that could contain lead are encountered underneath current installed tiles or other construction material, they shall be managed as containing lead until the appropriate test is performed. Refer to Appendix E: Location of Positive Materials for specific location.

Table 1-1: Summary of Components Containing Lead				
Area	Component	Color	Substrate	Approximate Amount
Bathroom 3 & Bathroom 4	Wall Tiles	White	Ceramic	300 Ft ²
Exterior Areas	Loading Dock	Yellow	Concrete	120 LnFt

Note:

1. The quantification of positives materials presented in this table is only an estimate. If an abatement of the materials will be conducted, the Contractors shall estimate the amount of materials to be abated.

SECTION 2: LEAD-BASED PAINT INSPECTION REPORT

2.1 OVERVIEW OF THE EVALUATION

This lead-based paint inspection was a selective investigation to identify all lead-based paint on a surface-by-surface basis (refer to *Appendix F: Improvement Plans* for specific project locations provided by the client). A lead-based paint inspection conforming to HUD guidelines was performed at the aforementioned property.

Averages of 319 samples were taken at identified surfaces of the evaluated areas using X-ray fluorescence (XRF) analyzer. The evaluation found that lead-based paint was present in selective components and surfaces through the property on the date of the assessment (See Table 1-1).

Some of the remaining XRF test locations exhibited lead-in-paint levels below the level that EPA identifies as lead-based paint, namely 1.0 mg/cm². Such surfaces could create dust-lead or soil-lead hazards if the paint is turned into dust by abrasion, scraping, or sanding. Should these or any lead containing components or surfaces be disturbed in any manner that generates dust, care should be taken to limit its spread.

Testing was performed by Dilia Rosado, state-certified risk assessor LBPRA-20322-195, using the Niton XLp-300A XRF, SN-101222. The credentials are provided in Section 3, Appendix C: Certifications, Licenses, and Accreditations. The XRF analyzer is designed to measure the lead content of surface coatings on a variety of building surfaces, substrates, and components. The measurement is rapid and nondestructive and, according to the manufacturer, is capable of detecting lead concentrations that occur within numerous layers of various surface coatings.

Please refer to the XRF Testing Results Section 3, Appendix A: XRF Sampling Data for the detailed analytical testing results for each distinct area inspected. The reports provide a complete testing data.

2.2 SAMPLING PROCEDURE

The Lead Based Paint Sampling Procedure was design to evaluate and document all the data obtained form the inspection in a sequential method that provided confidence at the moment of the results presentation.

The survey was performed following the methodology established in the HUD Guidelines for the Evaluation and Control of Lead Based Paint in Housing (2012 revision) and the Department of Natural and Environmental Resources (DRNA) of Puerto Rico Regulation 9098: Regulation for Proper Management of Lead-Based Paint Activities. The surfaces evaluation was performed as follows:

- If the lead concentration measured by the XRF Spectrum Analyzer is less than 1.0 mg/cm² it is considered negative.

- If the lead concentration measured by the XRF Spectrum Analyzer is equal or greater than 1.0 mg/cm² it is considered positive.

To each functional space of the property a name was assigned according to the use of that space. If no name could be assigned then a code letter or number was assigned.

Each wall surface was named with letters beginning with wall A the wall facing the main entrance direction. The wall at your left will be wall B, the wall at front wall C and the wall at you right will be wall D.

2.3 RESULTS PRESENTATION

This section describes the property components and surfaces coated with lead-based paint (LBP), which were observed in the inspection. Please note that the recommendations given are always the minimum action, which in our professional judgment should be taken.

According to the DRNA lead regulations, prior to the demolishing of a structure containing lead-based paint, the contaminated surfaces or substrates must be abated or removed. The firm providing the abatement services must be certified as an abatement firm by the DRNA.

2.3.1 SPECIFIC FINDINGS

The following LBP were found to contain more than 1.0 mg/cm² for what Department of Natural and Environmental Resources (DRNA) of Puerto Rico identifies as lead-based paint or materials containing lead:

- Loading Dock
- Wall Tiles

2.3.2 HOMOGENEOUS AREAS WITH SPECIAL CONSIDERATIONS

NONE

2.3.3 INACCESSIBLE AREAS PRESUMED TO BE LEAD-BASED PAINTED

NONE

2.4 LEAD REGULATORY LEVELS

The lead regulatory levels provided below are those used when preparing this lead-based paint evaluation or when evaluating data collected. The EPA regulatory levels are the same as the state regulatory levels provided in the following table.

TABLE 2-1: LEAD REGULATORY LEVELS	
	EPA/DRNA Levels
Lead-Based Paint	1.0 mg/cm² or 0.5% by weight (or 5,000 ppm)

2.5 CONDITIONS AND LIMITATIONS—DISCLAIMER

Zimmetry Environmental Management Corp. has performed this lead-based paint inspection in a thorough and professional manner consistent with commonly accepted industry standards. The Preparer cannot guarantee and does not warrant that this evaluation has identified all adverse environmental factors and/or conditions affecting this property on the date of the evaluation.

The results reported and conclusions reached by the Preparer are solely for the benefit of the Owner. The results and opinions in this report, based solely on the conditions found at the property on the date of the evaluation, are valid only on that date. The Preparer assumes no obligation to advise the client of any changes in any real or potential lead-based paint hazards at this property beyond the date of the evaluation.

The lead inspection was performed to ready accessible components and surfaces. If suspected components that could contain lead are encountered underneath current installed tiles or other construction material, they shall be managed as containing lead until the appropriate test is performed.

2.6 ABATEMENT CONDITIONS

Abatement, as defined by HUD and the Department of Natural and Environmental Resources (DRNA) of Puerto Rico, means any set of measures designed to eliminate lead-based paint and/or lead-based paint hazards permanently. The people providing these services must to be trained in accordance with the DRNA licensing/certification requirements. The product manufacturer and/or contractor must warrant abatement methods to last a minimum of 20 years, or these methods must have a design life of at least 20 years.

- onsite or offsite removal of lead-based paint from substrates and components
- replacement of components or fixtures painted with lead-based paint
- permanent enclosure of lead-based paint with construction materials mechanically-fastened to the substrate
- encapsulation of lead-based paint with specially designed encapsulant products

- removal or permanent covering (concrete or asphalt) of soil-lead-based paint hazards

If enclosure or encapsulation is conducted as an abatement method, the lead-based paint remains on the property, so ongoing lead-based paint maintenance is required.

2.7 RECOMMENDATIONS

According to the DRNA lead regulations, prior to the demolishing of a structure containing lead-based paint, the contaminated surfaces or substrates must be abated or removed. The waste generated has to be characterized to determine if the waste generated is hazardous or non-hazardous waste. The firm providing the abatement services must be certified as an abatement firm by the DRNA. Workers conducting abatement must be trained and certified as abatement workers by a training provider accredited by the DRNA.

2.8 ENVIRONMENTAL ASSESSMENT REPORT CERTIFICATION

Zimmetry Environmental Management Corp. has performed this lead-based paint inspection in a thorough and professional manner consistent with commonly accepted industry standards. The inspection was conducted on September 1, 2022 by Dilia Rosado, state-certified risk assessor LBPRA-20322-195, qualified by experience, education and training in the recognition of lead-based paint and approved sampling techniques using the Niton XLP-300A XRF, SN-101222.



Dilia Rosado, MEM
Environmental Risk Assessor

SECTION 3: APPENDICES

Appendix A: Certifications, Licenses, and Accreditations

Appendix B: XRF Sampling Data

Appendix C: XRF's Performance Characteristics Sheet

Appendix D: Photographic Record

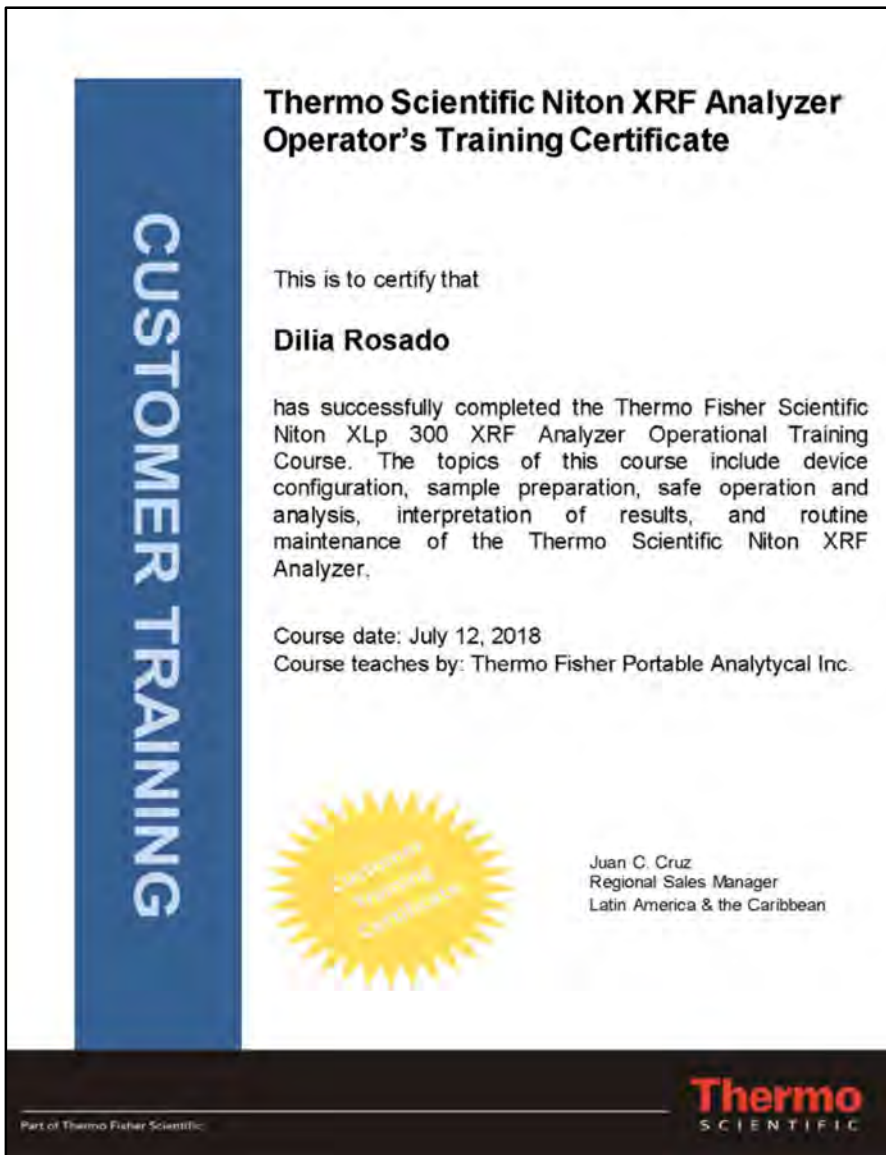
Appendix E: Location of Positive Materials

Appendix F: Improvement Plans

APPENDIX A: CERTIFICATIONS, LICENSES, AND ACCREDITATIONS



APPENDIX A: CERTIFICATIONS, LICENSES, AND ACCREDITATIONS



APPENDIX B: XRF SAMPLING DATA

PROJECT:	Selective Areas of Plaza del Mercado, Naguabo Puerto Rico			CLIENT: EM Architects			
DATE:	9/1/2022				LBP Inspector: Dilia Rosado		
Sample ID.	Functional Space	Location	Color	Subst.	XRF Reading	Pos/Neg	Comments
1	Calibration				1.00		
2	Calibration				1.00		
3	Calibration				1.00		
4	Bathroom 1	Floor Tile	Gray	Ceramic	0.00	Negative	
5	Bathroom 1	Wall Tile	Cream	Ceramic	0.00	Negative	
6	Bathroom 1	Ceiling	White	Drywall	0.00	Negative	
7	Bathroom 1	Door	White	Metal	0.00	Negative	
8	Bathroom 1	Door Casing	White	Metal	0.00	Negative	
9	Bathroom 1	Toilet	White	Ceramic	0.01	Negative	
10	Bathroom 1	Lavatory	White	Ceramic	0.01	Negative	
11	Bathroom 1	Partition	Gray	Wood	0.00	Negative	
12	Bathroom 2	Door	White	Metal	0.00	Negative	
13	Bathroom 2	Door Casing	White	Metal	0.00	Negative	
14	Bathroom 2	Toilet	White	Ceramic	0.01	Negative	
15	Bathroom 2	Lavatory	White	Ceramic	0.01	Negative	
16	Bathroom 2	Urinal	White	Ceramic	0.01	Negative	
17	Bathroom 2	Wall Tile	Gray	Ceramic	0.01	Negative	
18	Bathroom 2	Floor Tile	Gray	Ceramic	0.02	Negative	
19	Bathroom 2	Ceiling	White	Drywall	0.00	Negative	
20	Courtyard Interior Areas	Floor Tile	Brown	Ceramic	0.08	Negative	
21	Courtyard Interior Areas	Column	Gray	Metal	0.00	Negative	
22	Bathroom 3	Wall A	White	Concrete	0.00	Negative	
23	Bathroom 3	Wall B	White	Concrete	0.00	Negative	
24	Bathroom 3	Wall C	White	Concrete	0.00	Negative	
25	Bathroom 3	Wall D	White	Concrete	0.00	Negative	
26	Bathroom 3	Window Casing	Gray	Metal	0.00	Negative	
27	Bathroom 3	Floor Tile	White	Ceramic	0.40	Negative	
28	Bathroom 3	Wall Tile	White	Ceramic	2.10	Positive	
29	Bathroom 3	Door	White	Metal	0.00	Negative	
30	Bathroom 3	Door Casing	White	Metal	0.00	Negative	
31	Bathroom 3	Toilet	White	Ceramic	0.03	Negative	
32	Bathroom 3	Ceiling	White	Concrete	0.00	Negative	
33	Bathroom 3	Lavatory	White	Ceramic	0.01	Negative	
34	Bathroom 4	Wall A	White	Concrete	0.00	Negative	
35	Bathroom 4	Wall B	White	Concrete	0.00	Negative	
36	Bathroom 4	Wall C	White	Concrete	0.00	Negative	
37	Bathroom 4	Wall D	White	Concrete	0.00	Negative	
38	Bathroom 4	Window Casing	Gray	Metal	0.00	Negative	
39	Bathroom 4	Floor Tile	White	Ceramic	0.40	Negative	
40	Bathroom 4	Wall Tile	White	Ceramic	2.10	Positive	
41	Bathroom 4	Door	White	Metal	0.00	Negative	
42	Bathroom 4	Door Casing	White	Metal	0.00	Negative	
43	Bathroom 4	Toilet	White	Ceramic	0.01	Negative	
44	Bathroom 4	Ceiling	White	Concrete	0.00	Negative	
45	Bathroom 4	Lavatory	White	Ceramic	0.01	Negative	
46	Bathroom 4	Urinal	White	Ceramic	0.01	Negative	
47	Janitor 1	Door	Brown	Wood	0.12	Negative	
48	Janitor 1	Door Casing	Brown	Wood	0.12	Negative	
49	Bathroom 5	Wall Tile	Gray	Ceramic	0.01	Negative	
50	Bathroom 5	Floor Tile	Gray	Ceramic	0.01	Negative	
51	Bathroom 5	Partition	Gray	Wood	0.00	Negative	
52	Bathroom 5	Toilet	White	Ceramic	0.00	Negative	
53	Bathroom 5	Lavatory	White	Ceramic	0.00	Negative	
54	Bathroom 5	Ceiling	White	Drywall	0.00	Negative	
55	Bathroom 5	Door	White	Metal	0.00	Negative	
56	Bathroom 5	Door Casing	White	Metal	0.00	Negative	
57	Bathroom 6	Wall Tile	Gray	Ceramic	0.01	Negative	
58	Bathroom 6	Floor Tile	Gray	Ceramic	0.00	Negative	
59	Bathroom 6	Partition	Gray	Wood	0.00	Negative	
60	Bathroom 6	Toilet	White	Ceramic	0.01	Negative	

PROJECT:	Selective Areas of Plaza del Mercado, Naguabo Puerto Rico			CLIENT: EM Architects			
DATE:	9/1/2022				LBP Inspector: Dilia Rosado		
Sample ID.	Functional Space	Location	Color	Subst.	XRF Reading	Pos/Neg	Comments
61	Bathroom 6	Lavatory	White	Ceramic	0.01	Negative	
62	Bathroom 6	Ceiling	White	Drywall	0.00	Negative	
63	Bathroom 6	Door	White	Metal	0.00	Negative	
64	Bathroom 6	Door Casing	White	Metal	0.00	Negative	
65	Bathroom 6	Urinal	White	Ceramic	0.00	Negative	
66	Bathroom 7	Wall Tile	Gray	Ceramic	0.01	Negative	
67	Bathroom 7	Floor Tile	Gray	Ceramic	0.02	Negative	
68	Bathroom 7	Partition	Gray	Wood	0.00	Negative	
69	Bathroom 7	Toilet	White	Ceramic	0.00	Negative	
70	Bathroom 7	Lavatory	White	Ceramic	0.00	Negative	
71	Bathroom 7	Ceiling	White	Drywall	0.00	Negative	
72	Bathroom 7	Door	White	Metal	0.00	Negative	
73	Bathroom 7	Door Casing	White	Metal	0.00	Negative	
74	Bathroom 7	Urinal	White	Ceramic	0.00	Negative	
75	Bathroom 8	Wall Tile	Gray	Ceramic	0.01	Negative	
76	Bathroom 8	Floor Tile	Gray	Ceramic	0.00	Negative	
77	Bathroom 8	Partition	Gray	Wood	0.00	Negative	
78	Bathroom 8	Toilet	White	Ceramic	0.01	Negative	
79	Bathroom 8	Lavatory	White	Ceramic	0.01	Negative	
80	Bathroom 8	Ceiling	White	Drywall	0.00	Negative	
81	Bathroom 8	Door	White	Metal	0.00	Negative	
82	Bathroom 8	Door Casing	White	Metal	0.00	Negative	
83	Office 35	Wall A	Blue	Concrete	0.00	Negative	
84	Office 35	Wall B	Blue	Concrete	0.03	Negative	
85	Office 35	Wall C	Blue	Concrete	0.02	Negative	
86	Office 35	Wall D	Blue	Concrete	0.00	Negative	
87	Office 35	Baseboard	Blue	Concrete	0.00	Negative	
88	Office 35	Door	White	Metal	0.00	Negative	
89	Office 35	Door Casing	White	Metal	0.00	Negative	
90	Office 35	Window Shutter	White	Metal	0.00	Negative	
91	Office 35	Door	White	Metal	0.00	Negative	
92	Office 35	Door Casing	White	Metal	0.00	Negative	
93	Office 35	Door	White	Metal	0.00	Negative	
94	Office 35	Door Casing	White	Metal	0.00	Negative	
95	Janitor 2	Door	White	Metal	0.00	Negative	
96	Janitor 2	Door Casing	White	Metal	0.00	Negative	
97	Office 36	Wall A	Gray	Concrete	0.00	Negative	
98	Office 36	Wall B	Gray	Concrete	0.00	Negative	
99	Office 36	Wall C	Gray	Concrete	0.00	Negative	
100	Office 36	Wall D	Gray	Drywall	0.00	Negative	
101	Office 36	Window Shutter	White	Metal	0.00	Negative	
102	Office 36	Door	White	Metal	0.00	Negative	
103	Office 36	Door Casing	White	Metal	0.00	Negative	
104	Office 36	Column	Gray	Concrete	0.00	Negative	
105	Area 1-1	Wall D	Gray	Drywall	0.00	Negative	
106	Area 1-1	Window Shutter	White	Metal	0.00	Negative	
107	Area 1-1	Door	White	Metal	0.00	Negative	
108	Area 1-1	Door Casing	White	Metal	0.00	Negative	
109	Area 1-1	Column	Gray	Concrete	0.00	Negative	
110	Area 1-2	Wall A	White	Concrete	0.01	Negative	
111	Area 1-2	Wall B	White	Concrete	0.01	Negative	
112	Area 1-2	Wall C	White	Concrete	0.00	Negative	
113	Area 1-2	Wall D	White	Concrete	0.01	Negative	
114	Area 1-2	Column	White	Concrete	0.00	Negative	
115	Area 1-2	Beam	White	Concrete	0.00	Negative	
116	Area 1-2	Ceiling	White	Concrete	0.01	Negative	
117	Area 1-2	Door	White	Metal	0.00	Negative	
118	Area 1-2	Door Casing	White	Metal	0.00	Negative	
119	Gate to Roof	Gate	Gray	Metal	0.50	Negative	
120	Office 31	Ornamental Block	Gray	Concrete	0.00	Negative	

PROJECT:	Selective Areas of Plaza del Mercado, Naguabo Puerto Rico			CLIENT: EM Architects			
DATE:	9/1/2022				LBP Inspector: Dilia Rosado		
Sample ID.	Functional Space	Location	Color	Subst.	XRF Reading	Pos/Neg	Comments
121	Office 31	Grille	Gray	Metal	0.15	Negative	
122	Janitor 3	Door	White	Metal	0.00	Negative	
123	Janitor 3	Door Casing	White	Metal	0.00	Negative	
124	Janitor 3	Wall D	Gray	Concrete	0.00	Negative	
125	Janitor 3	Beam	Gray	Concrete	0.00	Negative	
126	Stairway 1	Floor Tile	Brown	Ceramic	0.02	Negative	
127	Stairway 1	Wall A	Gray	Concrete	0.00	Negative	
128	Stairway 1	Wall B	Gray	Concrete	0.00	Negative	
129	Stairway 1	Wall C	Gray	Concrete	0.00	Negative	
130	Stairway 1	Wall D	Gray	Concrete	0.00	Negative	
131	Stairway 1	Lower Wall	Green	Concrete	0.03	Negative	
132	Stairway 1	Handrail	Blue	Metal	0.20	Negative	
133	Stairway 1	Window Casing	Gray	Metal	0.00	Negative	
134	Stairway 1	Ceiling	Gray	Concrete	0.00	Negative	
135	Lobby 2nd Floor	Window Casing	Gray	Metal	0.00	Negative	
136	Lobby 2nd Floor	Grille	Gray	Metal	0.00	Negative	
137	Stairway 2	Wall A	Gray	Concrete	0.00	Negative	
138	Stairway 2	Wall B	Gray	Concrete	0.00	Negative	
139	Stairway 2	Wall C	Gray	Concrete	0.01	Negative	
140	Stairway 2	Wall D	Gray	Concrete	0.00	Negative	
141	Stairway 2	Ceiling	Gray	Concrete	0.00	Negative	
142	Stairway 2	Lower Wall	Gray	Concrete	0.00	Negative	
143	Stairway 2	Floor Tile	Brown	Ceramic	0.00	Negative	
144	Stairway 2	Handrail	Gray	Metal	0.00	Negative	
145	Local 1	Door	Blue	Metal	0.15	Negative	
146	Local 1	Door Casing	Blue	Metal	0.15	Negative	
147	Local 1	Wall A	White	Concrete	0.00	Negative	
148	Local 1	Wall D	White	Concrete	0.00	Negative	
149	Local 1	Wall B	Blue	Concrete	0.00	Negative	
150	Local 1	Column	White	Concrete	0.00	Negative	
151	Local 1	Window Shutter	White	Metal	0.00	Negative	
152	Local 1	Ceiling	White	Concrete	0.00	Negative	
153	Local 2	Door	White	Metal	0.00	Negative	
154	Local 2	Door Casing	White	Metal	0.00	Negative	
155	Local 2	Wall A	Gray	Concrete	0.00	Negative	
156	Local 2	Wall B	Gray	Concrete	0.00	Negative	
157	Local 2	Wall C	Gray	Concrete	0.00	Negative	
158	Local 2	Wall D	Gray	Concrete	0.01	Negative	
159	Local 2	Column	Gray	Concrete	0.00	Negative	
160	Local 2	Beam	Gray	Concrete	0.00	Negative	
161	Local 2	Window Shutter	White	Metal	0.00	Negative	
162	Local 2	Ceiling	Gray	Concrete	0.00	Negative	
163	Local 3	Door	White	Metal	0.00	Negative	
164	Local 3	Door Casing	White	Metal	0.00	Negative	
165	Local 4	Wall A	White	Concrete	0.00	Negative	
166	Local 4	Wall B	White	Concrete	0.00	Negative	
167	Local 4	Wall C	White	Concrete	0.00	Negative	
168	Local 4	Wall D	White	Concrete	0.00	Negative	
169	Local 4	Column	White	Concrete	0.00	Negative	
170	Local 4	Door	Gray	Metal	0.00	Negative	
171	Local 4	Door Casing	Gray	Metal	0.00	Negative	
172	Local 5	Wall A	Gray	Concrete	0.00	Negative	
173	Local 5	Wall B	Gray	Concrete	0.01	Negative	
174	Local 5	Wall C	Gray	Concrete	0.00	Negative	
175	Local 5	Wall D	Gray	Concrete	0.00	Negative	
176	Local 5	Door	Gray	Metal	0.00	Negative	
177	Local 5	Door Casing	Gray	Metal	0.00	Negative	
178	Local 6	Door	Gray	Metal	0.00	Negative	
179	Local 6	Door Casing	Gray	Metal	0.00	Negative	
180	Local 6	Wall A	White	Concrete	0.00	Negative	

PROJECT:	Selective Areas of Plaza del Mercado, Naguabo Puerto Rico			CLIENT: EM Architects			
DATE:	9/1/2022				LBP Inspector: Dilia Rosado		
Sample ID.	Functional Space	Location	Color	Subst.	XRF Reading	Pos/Neg	Comments
181	Local 6	Wall B	White	Concrete	0.00	Negative	
182	Local 6	Wall C	White	Concrete	0.00	Negative	
183	Local 6	Wall D	White	Concrete	0.00	Negative	
184	Local 6	Partition	White	Concrete	0.00	Negative	
185	Locals 7 & 8	Door	Gray	Metal	0.00	Negative	
186	Locals 7 & 8	Door Casing	Gray	Metal	0.00	Negative	
187	Locals 7 & 8	Wall B	Gray	Concrete	0.00	Negative	
188	Locals 7 & 8	Wall C	Gray	Concrete	0.01	Negative	
189	Locals 7 & 8	Wall D	Gray	Concrete	0.00	Negative	
190	Locals 7 & 8	Window Casing	Gray	Metal	0.00	Negative	
191	Locals 7 & 8	Gate	Gray	Metal	0.00	Negative	
192	Local 9	Door	Brown	Wood	0.00	Negative	
193	Local 9	Door Casing	Brown	Wood	0.00	Negative	
194	Local 9	Wall A	Gray	Concrete	0.00	Negative	
195	Local 9	Wall B	Gray	Concrete	0.01	Negative	
196	Local 9	Wall C	Gray	Concrete	0.01	Negative	
197	Local 9	Wall D	Gray	Concrete	0.01	Negative	
198	Local 9	Partition	Gray	Wood	0.00	Negative	
199	Local 9	Window Shutter	White	Metal	0.00	Negative	
200	Local 9	Window Casing	Gray	Metal	0.00	Negative	
201	Local 9	Door	Black	Metal	0.00	Negative	
202	Local 9	Door Casing	Black	Metal	0.00	Negative	
203	Local 10	Door	Gray	Metal	0.00	Negative	
204	Local 10	Door Casing	Gray	Metal	0.00	Negative	
205	Local 10	Wall A	Red	Concrete	0.01	Negative	
206	Local 10	Wall B	Red	Concrete	0.01	Negative	
207	Local 10	Wall C	Red	Concrete	0.00	Negative	
208	Local 10	Wall D	Red	Concrete	0.00	Negative	
209	Local 10	Door	White	Metal	0.00	Negative	
210	Local 10	Door Casing	White	Metal	0.00	Negative	
211	Local 10	Gate	White	Metal	0.00	Negative	
212	Local 10	Window	White	Metal	0.00	Negative	
213	Local 11	Door	Gray	Metal	0.00	Negative	
214	Local 11	Door Casing	Gray	Metal	0.00	Negative	
215	Local 11	Wall A	Gray	Concrete	0.00	Negative	
216	Local 11	Wall B	Gray	Concrete	0.00	Negative	
217	Local 11	Wall C	Gray	Concrete	0.01	Negative	
218	Local 11	Wall D	Gray	Concrete	0.00	Negative	
219	Local 11	Window Shutter	White	Metal	0.00	Negative	
220	Local 11	Gate	Gray	Metal	0.00	Negative	
221	Local 11	Window Shutter	White	Metal	0.00	Negative	
222	Local 11	Wall B	Gray	Wood	0.00	Negative	
223	Local 11	Wall D	Gray	Wood	0.00	Negative	
224	Locals 12 & 13	Wall A	Gray	Concrete	0.01	Negative	
225	Locals 12 & 13	Wall C	Gray	Concrete	0.00	Negative	
226	Locals 12 & 13	Wall D	Gray	Concrete	0.00	Negative	
227	Locals 12 & 13	Grille	Gray	Metal	0.00	Negative	
228	Locals 12 & 13	Gate	Gray	Metal	0.00	Negative	
229	Locals 12 & 13	Column	Gray	Wood	0.00	Negative	
230	Locals 12 & 13	Beam	Blue	Wood	0.00	Negative	
231	Locals 12 & 13	Wall B	Gray	Wood	0.00	Negative	
232	Local 14	Gate	White	Metal	0.00	Negative	
233	Local 14	Column	Gray	Wood	0.00	Negative	
234	Local 14	Grille	Gray	Metal	0.00	Negative	
235	Local 14	Wall A	Gray	Concrete	0.00	Negative	
236	Local 14	Wall C	Gray	Concrete	0.00	Negative	
237	Local 14	Wall B	Gray	Wood	0.00	Negative	
238	Local 14	Wall D	Gray	Wood	0.00	Negative	
239	Local 14	Beam	Blue	Wood	0.00	Negative	
240	Local 15	Gate	White	Metal	0.00	Negative	

PROJECT:	Selective Areas of Plaza del Mercado, Naguabo Puerto Rico			CLIENT: EM Architects			
DATE:	9/1/2022			LBP Inspector: Dilia Rosado			
Sample ID.	Functional Space	Location	Color	Subst.	XRF Reading	Pos/Neg	Comments
241	Local 15	Column	Gray	Wood	0.00	Negative	
242	Local 15	Grille	Gray	Metal	0.00	Negative	
243	Local 15	Wall A	Gray	Concrete	0.00	Negative	
244	Local 15	Wall C	Gray	Concrete	0.00	Negative	
245	Local 15	Wall B	Gray	Wood	0.00	Negative	
246	Local 15	Wall D	Gray	Wood	0.00	Negative	
247	Local 15	Beam	Blue	Wood	0.01	Negative	
248	Local 16	Column	White	Concrete	0.00	Negative	
249	Local 16	Door	Gray	Metal	0.00	Negative	
250	Local 16	Door Casing	Gray	Metal	0.00	Negative	
251	Local 16	Wall A	White	Concrete	0.00	Negative	
252	Local 16	Wall B	White	Concrete	0.00	Negative	
253	Local 16	Wall C	White	Concrete	0.00	Negative	
254	Local 16	Wall D	White	Concrete	0.01	Negative	
255	Local 16	Partition	White	Concrete	0.00	Negative	
256	Locals 17 & 18	Door	Gray	Metal	0.00	Negative	
257	Locals 17 & 18	Door Casing	Gray	Metal	0.00	Negative	
258	Locals 17 & 18	Door	Gray	Metal	0.00	Negative	
259	Locals 17 & 18	Door Casing	Gray	Metal	0.00	Negative	
260	Entrance Area	Door	Gray	Metal	0.00	Negative	
261	Entrance Area	Door Casing	Gray	Metal	0.00	Negative	
262	Entrance Area	Door Casing	Gray	Metal	0.00	Negative	
263	Entrance Area	Door Casing	Gray	Metal	0.00	Negative	
264	Locals 19, 20 & 21	Door	Gray	Metal	0.00	Negative	
265	Locals 19, 20 & 21	Door Casing	Gray	Metal	0.00	Negative	
266	Locals 19, 20 & 21	Lower Wall A	Gray	Concrete	0.00	Negative	
267	Hallway 2	Grille	Gray	Metal	0.00	Negative	
268	Local 22	Door	Gray	Metal	0.00	Negative	
269	Local 22	Door Casing	Gray	Metal	0.00	Negative	
270	Local 22	Wall A	Gray	Concrete	0.00	Negative	
271	Local 22	Column	Gray	Concrete	0.00	Negative	
272	Local 22	Wall B	Blue	Concrete	0.01	Negative	
273	Local 22	Wall D	Blue	Concrete	0.01	Negative	
274	Local 22	Wall C	Blue	Concrete	0.00	Negative	
275	Local 23	Door	Gray	Metal	0.00	Negative	
276	Local 23	Door Casing	Gray	Metal	0.00	Negative	
277	Local 24	Door	Gray	Metal	0.00	Negative	
278	Local 24	Door Casing	Gray	Metal	0.00	Negative	
279	Local 25	Door	Gray	Metal	0.00	Negative	
280	Local 25	Door Casing	Gray	Metal	0.00	Negative	
281	Local 25	Wall A	White	Concrete	0.00	Negative	
282	Local 25	Wall B	White	Concrete	0.00	Negative	
283	Local 25	Wall C	White	Concrete	0.00	Negative	
284	Local 25	Wall D	White	Concrete	0.00	Negative	
285	Local 25	Beam	White	Concrete	0.00	Negative	
286	Local 26	Door	Gray	Metal	0.00	Negative	
287	Local 26	Door Casing	Gray	Metal	0.00	Negative	
288	Local 26	Wall A	Gray	Concrete	0.00	Negative	
289	Local 26	Wall C	Gray	Concrete	0.00	Negative	
290	Local 26	Wall B	Gray	Wood	0.00	Negative	
291	Local 26	Wall D	Gray	Wood	0.00	Negative	
292	Local 27	Door	Gray	Metal	0.00	Negative	
293	Local 27	Door Casing	Gray	Metal	0.00	Negative	
294	Calibration				1.00		
295	Calibration				1.00		
296	Calibration				1.00		
297	Exterior Areas	Wall A	Yellow	Concrete	0.00	Negative	
298	Exterior Areas	Wall B	Yellow	Concrete	0.00	Negative	
299	Exterior Areas	Wall C	Yellow	Concrete	0.01	Negative	
300	Exterior Areas	Wall D	Yellow	Concrete	0.01	Negative	

[illegible]

APPENDIX C: XRF's PERFORMANCE CHARACTERISTICS SHEET

Performance Characteristic Sheet

EFFECTIVE DATE: September 24, 2004

EDITION NO.: 1

MANUFACTURER AND MODEL:

Make: Niton LLC

Tested Model: XLp 300

Source: ^{109}Cd

Note: This PCS is also applicable to the equivalent model variations indicated below, for the Lead-in-Paint K+L variable reading time mode, in the XLi and XLp series:

XLi 300A, XLi 301A, XLi 302A and XLi 303A.

XLp 300A, XLp 301A, XLp 302A and XLp 303A.

XLi 700A, XLi 701A, XLi 702A and XLi 703A.

XLp 700A, XLp 701A, XLp 702A, and XLp 703A.

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

FIELD OPERATION GUIDANCE

OPERATING PARAMETERS:

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

XRF CALIBRATION CHECK LIMITS:

0.8 to 1.2 mg/cm² (inclusive)

The calibration of the XRF instrument should be checked using the paint film nearest 1.0 mg/cm² in the NIST Standard Reference Material (SRM) used (e.g., for NIST SRM 2579, use the 1.02 mg/cm² 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 not needed for:

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

INCONCLUSIVE RANGE OR THRESHOLD:

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

BACKGROUND INFORMATION

EVALUATION DATA SOURCE AND DATE:

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

OPERATING PARAMETERS:

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

SUBSTRATE CORRECTION VALUE COMPUTATION:

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

EVALUATING THE QUALITY OF XRF TESTING:

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

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

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

Compute the Retest Tolerance Limit by the following steps:

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

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

Square the average for each testing combination.

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

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

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

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

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

Compute the average of all ten original XRF results.

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

Find the absolute difference of the two averages.

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

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

TESTING TIMES:

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

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

CLASSIFICATION RESULTS:

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

DOCUMENTATION:

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

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

APPENDIX D: PHOTOGRAPHIC RECORD

Photo No. 3548	Date: 09/01/2022	
Description: Bathroom 3 Lead containing ceramic wall tiles.		
Photo No. 3550	Date: 09/01/2022	
Description: Bathroom 4 Lead containing ceramic wall tiles.		

Photographic Documentation is for reference purposes and doesn't necessarily include all the surfaces with lead based paint and/or components containing lead.

APPENDIX D: PHOTOGRAPHIC RECORD

Photo No. 3561	Date: 09/01/2022	
Description: Bathroom 3 Lead-based painted concrete loading dock.		
Photo No. 3563	Date: 09/01/2022	
Description: Bathroom 4 Lead-based painted concrete loading dock.		

Photographic Documentation is for reference purposes and doesn't necessarily include all the surfaces with lead based paint and/or components containing lead.

APPENDIX E: LOCATION OF POSITIVE MATERIALS

Project No: ZEM-22187

APPENDIX F: IMPROVEMENT PLANS



LOCATION PLAN
x: 273857.6303, y: 242055.1035



ZONING PLAN



FLOOD MAP PANEL
72000C0895J



MUNICIPIO DE NAGUABO
HON. MIRAILDIZ ROSARIO PAGÁN

MEJORAS A PLAZA DEL MERCADO

NAGUABO, PUERTO RICO

PLANOS ESQUEMATICOS
8/JUNIO/2022

DRAWING INDEX

SHEET	NO. IN CLATURE	SHEET NAME
01	T100	TITLE SHEET
02	DA2101	EXISTING SITE PLAN
03	DA2102	EXISTING & DEMOLITION PLAN - 1ST LEVEL
04	DA2103	EXISTING & DEMOLITION PLAN - 2ND LEVEL
05	DA2104	EXISTING & DEMOLITION ELEVATIONS
06	DA2105	PROPOSED ELEVATIONS
07	AA01	ACCOMMODATION VIEW
08	AA02	ARCHITECTURAL FLOOR PLAN - 1ST LEVEL
09	AA03	ARCHITECTURAL FLOOR PLAN - 2ND LEVEL
10	AA04	ARCHITECTURAL SECTION - MAIN ENTRANCE
11	AA05	ENLARGED VIEW ELEV. SECTION - MAIN ENTRANCE
12	AA06	



EXISTING SITE
PLAN

DATE: 1/18/14
DRAWN: ARIAN
PROJECT: ARIAN

PROJECT: MEJORAS A PLAZA DEL MERCADO
CLIENT: MUNICIPIO DE NAGUABO
LOCATION: PUERTO RICO

PROJECT: MEJORAS A PLAZA DEL MERCADO
CLIENT: MUNICIPIO DE NAGUABO
LOCATION: PUERTO RICO

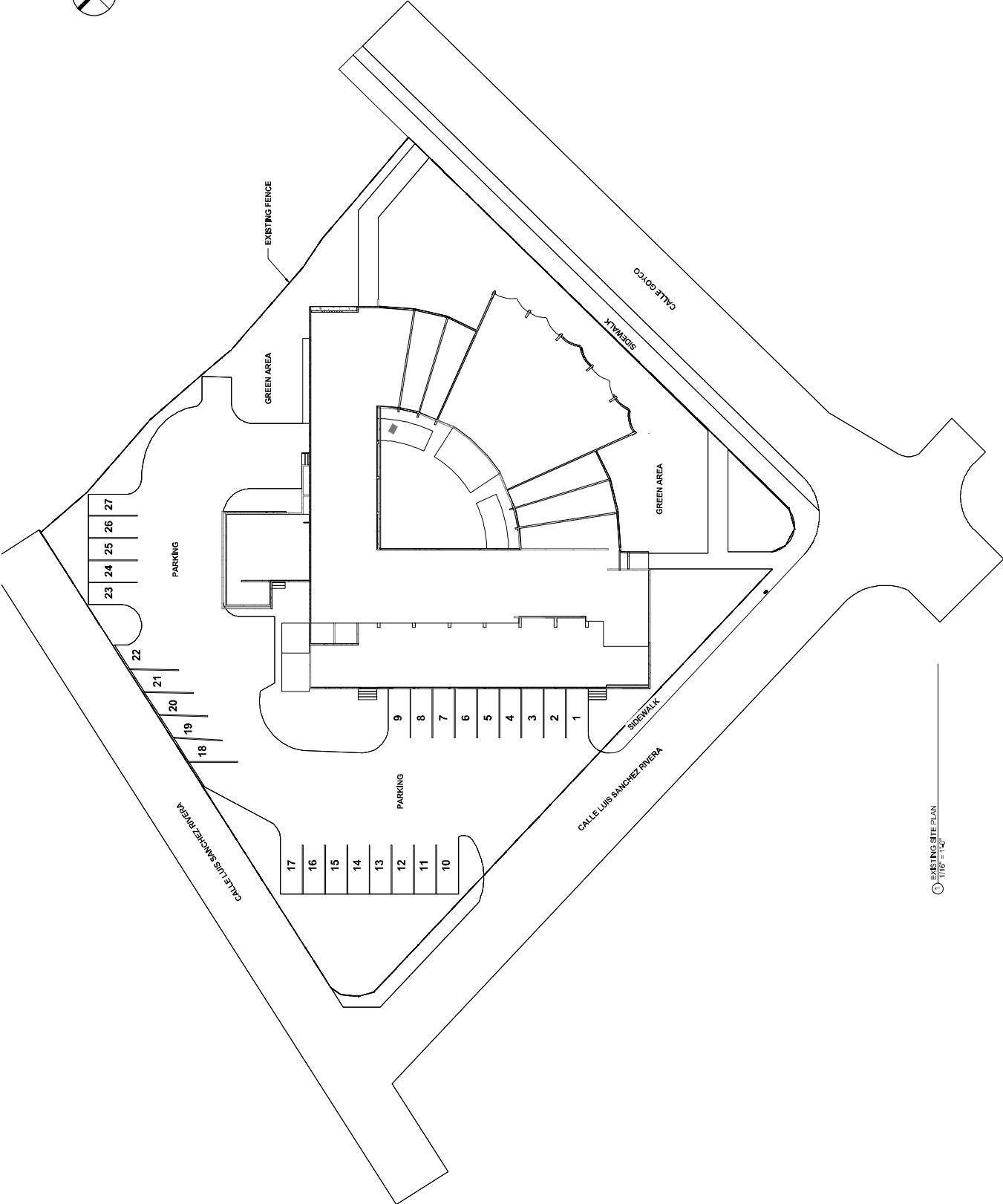
REGION / DATE / DESCRIPTION

NOTES

PROJECT

DATE

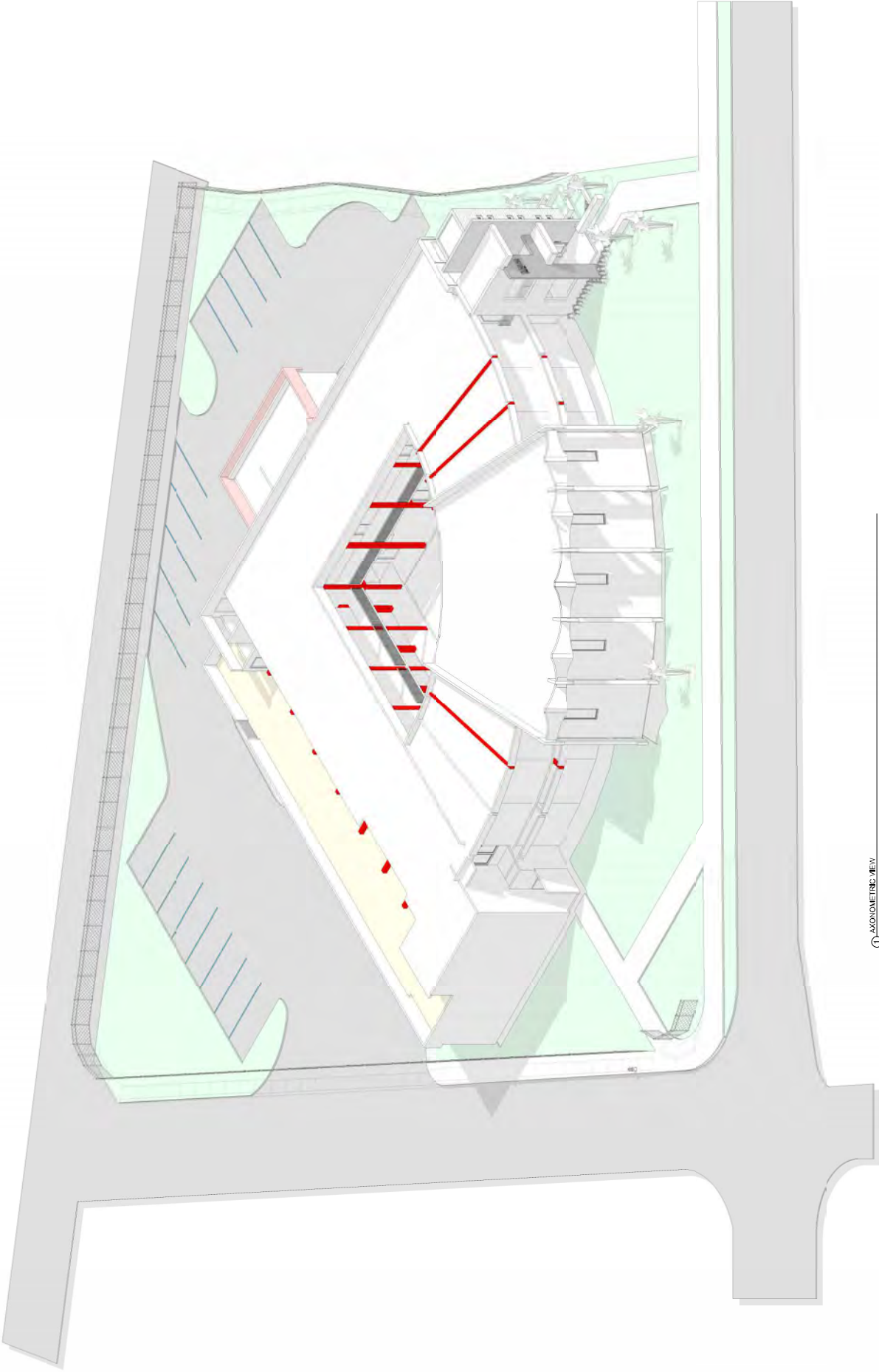
EN ARCHITECTS
ARCHITECTS
1100 N. 10th St., Suite 200
San Juan, PR 00906
Tel: (787) 265-1234
Fax: (787) 265-1235
www.enarchitects.com



① EXISTING SITE PLAN
1/18/14 = 1/14/14



① PROPOSED SITE PLAN
1/16" = 1'-0"



① AXONOMETRIC VIEW

A001

AXONOMETRIC
VIEW

PROJECT

CLIENT

LOCATION

DATE

SCALE

PROJECT

CLIENT

LOCATION

DATE

SCALE

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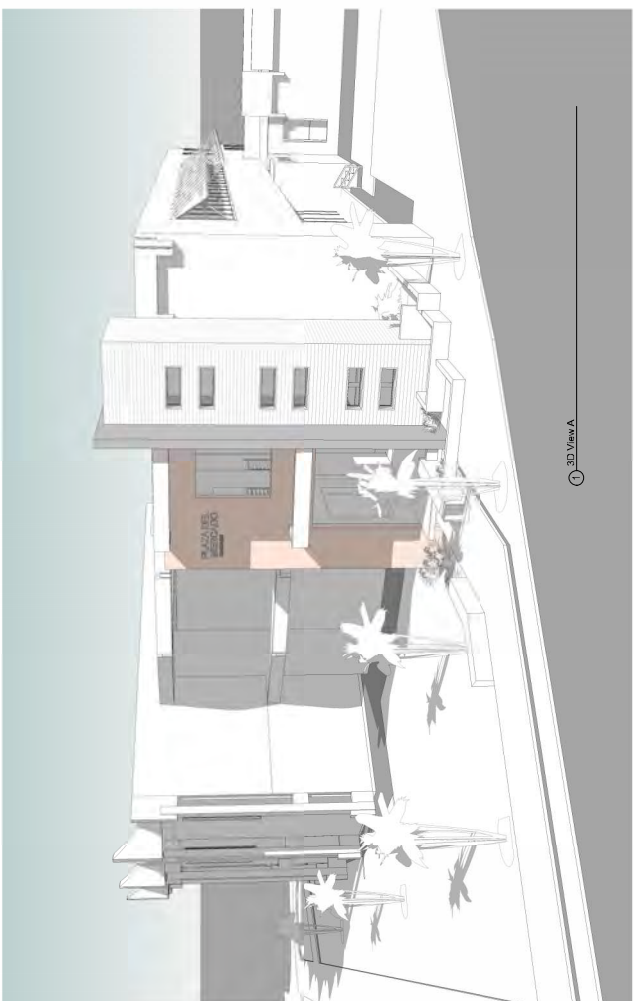
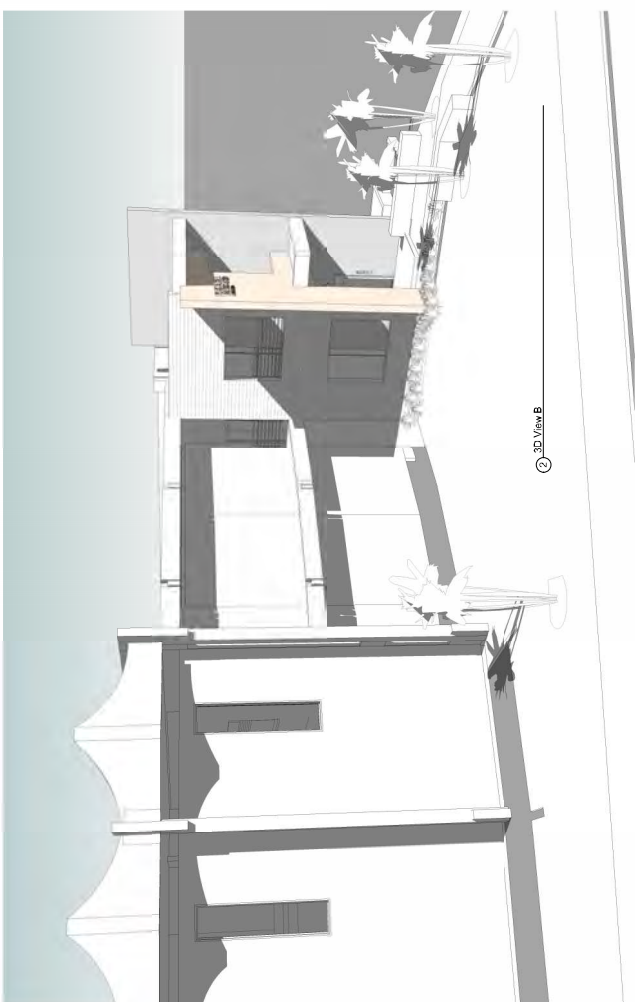
SCALE

PROJECT

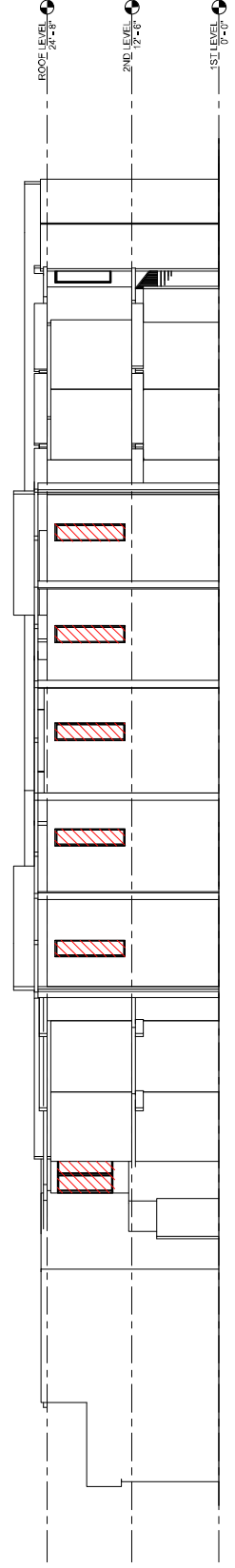
CLIENT

LOCATION

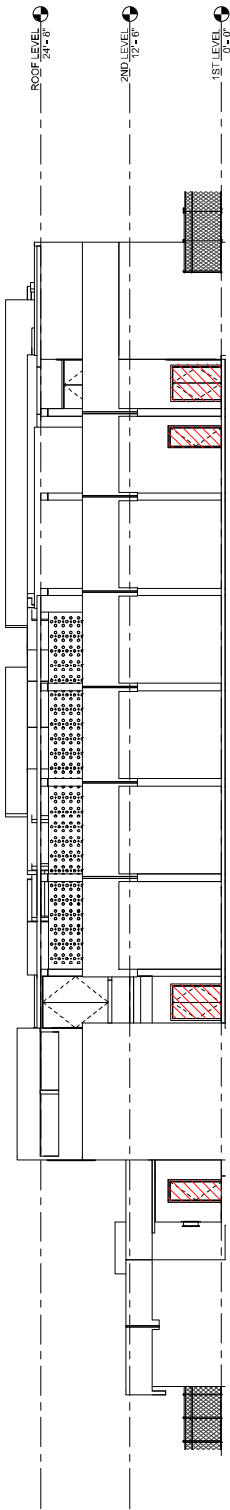
DATE



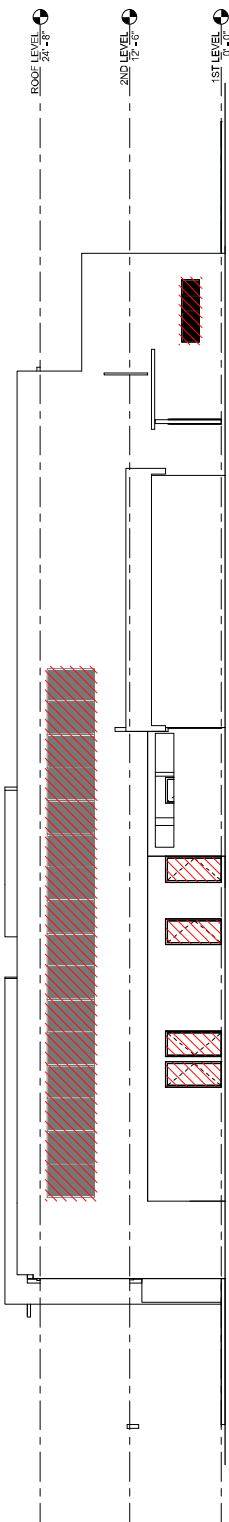




1 EXISTING ELEVATION 1-a
1/8" = 1'-0"



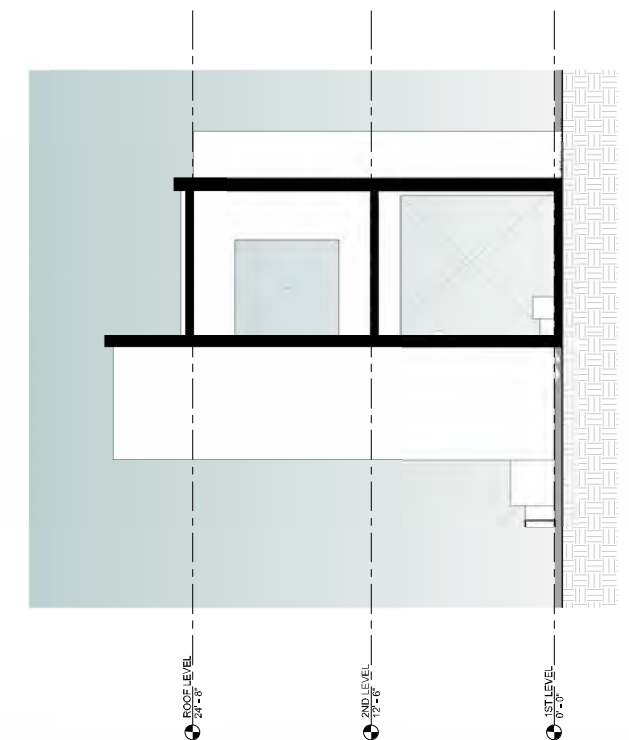
2 EXISTING ELEVATION 2-a
1/8" = 1'-0"



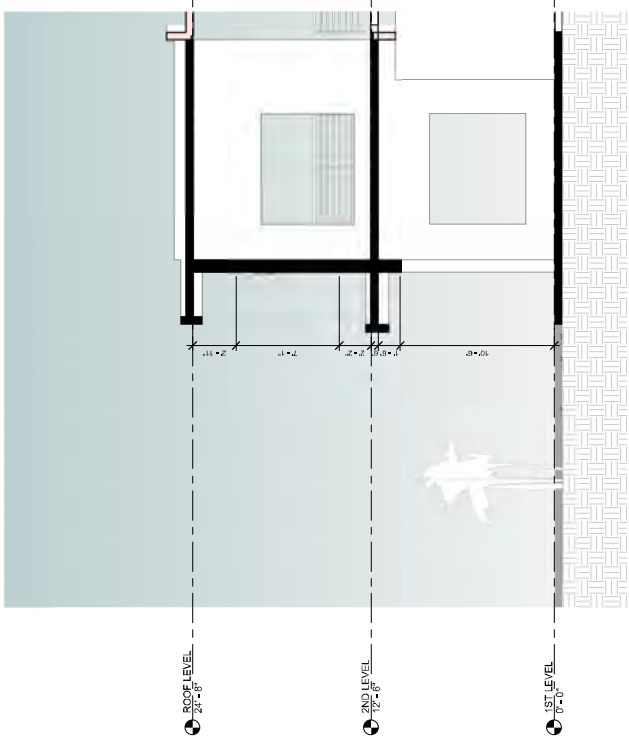
3 EXISTING ELEVATION 3-a
1/8" = 1'-0"



① Elevation 0 - BLOW UP
1/4" = 1'-0"



③ Section 31 BLOW UP
1/4" = 1'-0"



② Section 30 BLOW UP
1/4" = 1'-0"

ATTACHMENT 000
SOIL STUDY

GEOTECHNICAL MEMORANDUM

August 10, 2022

Mr. Eli Mariano Belendez, AIA
EM Architects
PO Box 270-113
San Juan, PR 00928
E: emarchitectspr@gmail.com

Project: Proposed Entrance Structure and New Elevator Shaft
Plaza del Mercado Facilities
Juan R. Garzot St. Corner Goyco St.
Naguabo, Puerto Rico
(VERA, LLC Job No. 22-5033)

Subject: Foundation Design Recommendations

Report:

Pursuant our approved proposal dated July 01, 2022, submitted herein is the result of one (1) test boring performed along the above depicted site. Foundations design recommendations based upon are also submitted. The boring is identified as B-1 and was drilled at the approximate location shown on attached plan as per exhibit A, "Site Location Map, Site and Boring Location Plan, and Log". No drilling fluid was used for the advancement of the test boring. It was staked-out in the field using tape measurements from existing reference points and was drilled using a trailer mounted CME-55 drill rig.

All soil sampling was achieved by means of the universally adopted standard penetration test (SPT). All samples secured were visual-manually described and examined for the detection of any weak and/or secondary plane, or foreign/organic matter contain that could undermine its shearing strength, thus its load carrying capacity and compressibility as well. Routine laboratory tests as moisture content (w_n) and unconfined compressive strength (Q_u) tests were ran whenever possible.

Please, find on attached exhibit B, "Routine Field and Laboratory Testing Procedures", a full description of the methods followed in the routine testing program.

All depths mentioned on this report are referred to the existing ground surface at the time our field exploration was conducted (July 08, 2022). No elevations are given.

1. PROJECT GENERAL INFORMATION

1.1 Site Description

The site location is shown on attached exhibit A. It is located at the southeast corner of Plaza del Mercado building in turn located at Juan R. Garzot Street Intersection Goyco Street in the Municipality of Naguabo, Puerto Rico. The site is relatively flat and leveled and covered by grass.

1.2 Project Description

The project consists in the construction of a 2-story cast in-place reinforced concrete entrance structure and new elevator shaft. The new structure is to be supported over concrete columns. The elevator shaft has approximate plan dimension of 8ft in width by 10ft in length. Bottom of foundation has been established at 6ft below existing ground elevation. Entrance floor slab shall correspond to a slab-on-grade construction. **No other structure is included within the scope of this work.**

Please, bear in mind the before given general description is aimed as an assistance for a better understanding of the project and of this report content by the user. In no case it constitutes a precise and complete description of the project, but most of it highlights as forehanded by the designing office. Complete information pertaining earthwork and all other project details for quantification and cost estimates should be obtained on corresponding construction final drawings once they become available.

2. GENERALIZED SUBSOIL CONDITIONS

2.1 Generalized Subsoil Profile

The generalized soil profile down to the maximum explored depth (30ft) can be divided in two (2) main horizons: man-made fill deposit and alluvial deposit.

The **man-made fill deposit** extends to a depth of 4ft. below actual ground surface. It consists of either silt or clay with variable proportions of sand and gravel; and few iron pieces. It exhibits a soft to medium consistency and it is brown and gray in color. Underlying the fill, and extending down to the drilled

depth, the **alluvial deposit** was found. It consists of alternate layers of clay, sand, and gravel mixed in variable proportions. When clayey, it shows soft to stiff consistencies. When the granular proportion prevails, sand/gravel, it shows medium to very dense relative densities. Predominant colors are brown, gray, and yellow in various shades and tones. It must be noted that strength increase with depth. The soft to medium soft layers are found within the uppermost 2ft. to 8ft.

2.2 Ground Water Level

The site ground water level was detected at a depth of 10ft. below actual ground surface. The period the listed levels were monitored is recognized as being too short and that variations in any observed ground water level could arise accordingly, among other factors, to the local dry and wet seasonal changes. An accurate monitoring program calls for the installation of monitoring wells and a prolonged observation period, which in turn are out of our scope of work.

Please, see enclosed boring log as per exhibit **A** for a more detailed description of all soil stratigraphic units encountered, field and laboratory results. This log represents our best interpretation of the subsurface conditions based on the field data, and the visual-manual examination of the grabbed samples. The stratification lines and depth designations represent approximate boundaries between the subsurface strata. Actual transitions between strata may be gradual.

3. Non-Routine Test Results

One sample from the alluvial deposit horizon was selected for a non-routine testing program that includes Atterberg Limits, particle size distribution analysis, and soil classification. The results confirm the visual-manual description of the grabbed samples consisting of highly plastic clay. A detailed report of the tests result is enclosed as per exhibit **A**.

Please, see enclosed boring log as per exhibit **A** for a more detailed description of all soil stratigraphic units encountered, field and laboratory results.

4. CONCLUSIONS AND RECOMMENDATIONS

The result the exploratory boring makes us to conclude that the proposed structure can be constructed as discussed on forthcoming items.

The utmost feature of the local soil profile is the presence of the fill and alluvial deposits showing medium compressibility and poor strength characteristics extending down to a depth of 8ft.

To avoid potential settlements that could provoke some cracks on the structures, an over-excavation and replacement of the unsuitable soils in an engineer controlled fashion is a must. At the location of the elevator shaft, the over-excavation shall extend to a maximum depth of 2ft below the proposed elevator shaft excavation depth of 6ft and shall horizontally extend 3ft beyond the structure footprint, whenever possible. At the location of the entrance columns foundations and entrance ground slab, the over-excavation shall extend to depths of 6ft and 4ft, respectively. Once again, the over-excavation shall also extend 3ft. beyond the foundation/slab footprints all around.

However, knowing the space limitations of the project, and the different recommended depths of over-excavations, a uniform 8ft over-excavation below the whole structure (entrance structure plus elevators shaft) would be more suitable from the construction standpoint of view.

The exposed soils at the bottom of all the over-excavation shall be carefully observed and evaluated by the undersigned and/or his field technician representative to confirm and/or modify depth of excavation and if over-excavation needs to be vertically and/or horizontally extended. Then the area must be backfilled according to the guidelines and specifications detailed below.

The area shall be backfilled with a soil-aggregate mixture classifying A-2-4 or better according to AASHTO M145 standard. The backfill material shall be placed and compacted following an engineered control procedure up to the final grades. By engineered place and compacted is meant the backfill shall be spread evenly on layers not exceeding 8 inches thick, loose measured, and each layer shall be compacted to not less than 95% of the fill/backfill material maximum dry density (MDD) as obtained in the laboratory according to ASTM D1557 standard designation (Modified Proctor Test). Moisture of the fill/backfill shall be

2.0 to 4.0% higher than the corresponding optimum moisture content (OMC) by the time the compaction is imparted.

Due to the presence of the existing building, a thorough monitoring and evaluation of the vibrations to be induced by the spreading and compaction equipment shall be executed at the very beginning. If wave's velocities that might pose a risk to any close by structure and/or substructure are so monitored, the geotechnical engineer must evaluate the situation and issue the pertinent preventive recommendations allowing the project to continue ahead overcoming any risk for the said structure.

The over-excavation shall extend to not less than 3.0 ft. beyond the structure footprint (whenever possible) as referred to the projection of the footprint at the bottom of the excavation. The over excavation walls could be made open (no lateral protection) and with vertical sides. To avoid any potential localized slide of the soil mass and therefore to foster the excavation side's temporary stability, do not storage or piled-up any kind of material around the excavation edges thru a distance of at least 1.5 times the excavation depth.

According to the drilling effort required for the advancement of the test borings, the over-excavation can be safely performed using conventional equipment as medium size hydraulic excavator (backhoe). All the material so excavated must be disposed off in an orderly manner or use in finishing purpose along green areas.

Due to the proximity of the existing building and the recommended over-excavation to remove the unsuitable soils combined with the lack of information of the building foundation system, a loss of lateral support may develop due to soil collapse. We recommend the designer to obtain the plans of the building to confirm the dimensions and depth at which the existing foundations are located and a series of test pits dug at site to validate footings geometry. The designer and potential contractor must be aware of this inherent site condition. The potential contractors must submit a design concerning to a temporary system for the protection of the existing footings. Potential solutions could include bracing and shotcrete, among others factors.



4.1 Structure Foundation Design Parameters

Once the over-excavation and backfilling operation is completed, the elevator shaft structure can be safely designed resting over a rigid mat foundation proportioned for and allowable soil bearing pressure (q_a) of 3,000 pounds per square foot (psf) at the contemplated foundation depth of 6ft below actual ground surface. The entrance columns could be designed resting over isolated footing proportioned for a q_a of 3,000 psf at a foundation depth of 2ft below final grades. Both structures case must be anchored to the existing building.

All foundation excavations backfill shall be conducted under an engineered quality control. Notice that the compaction equipment here should be a small roll or damper, thus the backfill lift thickness is not to exceed 6 inches. Each lift shall be compacted to not less than 95% of the backfill maximum dry density (MDD) as obtained by means of laboratory compaction curve tests conducted as per ASTM D1557 standard (Modified Proctor).

The ground-slab can be constructed directly on the backfilling placed and compacted according to the procedures described before. For purposes of design, a modulus of subgrade reaction (K_s) of 150 pounds per cubic inch (PCI) should be used.

4.2 Temporary Loads and Seismic Design Parameters

The allowable bearing pressures given can be increased 33% of the corresponding values to deal with short term loading conditions due to earthquake and/or winds.

According to the International Building Code (2018), the designer should consider a soil profile type D (stiff soil profile) in designing the structure for seismic considerations. Actual design codes call for structures be based on a ground acceleration of 0.3g (gravitational acceleration), and earthquake event of 7.5 magnitude on the Richter Scale

However, higher accelerations were recorded during the earthquakes of the past January 07 and May 02, 2020 (0.398g and 0.360g) along the southwest and south regions of the island. The structural

engineer must be aware of these experiences, and determine, as per his/her judgement, final acceleration to be adopted.

5. ALTERNATE INTERMEDIATE FOUNDATION SOLUTION

Alternatively, the proposed structure can be designed resting over helical piles. Helical piles are a steel screw-in piling and ground anchoring system used for underpinning or as an intermediate foundation solution. Screw piles are manufactured using varying sizes of tubular hollow sections for the pile or anchors shaft. The pile shaft transfers a structure's load into the pile. Helical steel plates are welded to the pile shaft in accordance with the intended ground conditions.

The number of helices, their diameters and position on the pile shaft as well as steel plate thickness are all determined by a combination of the structure design load requirement, geotechnical parameters, and environmental corrosion parameters, among others.

Depending on the loading intensity of the proposed structure, the helical piles could be installed to depths of 20ft to 25ft below existing ground surface. However, the final pile lengths are to be determined by the helical pile designer. He/she should also select the size and number of helical bearing plates for each helical pile based on the actual loads and local soil profile. All drawings and specifications produced by these suppliers shall be signed by a P.R. licensed professional engineer authorized to render this kind of specialty.

Torque measurements during installation of helical piles should be used to verify the axial capacity of the helical piles. We recommend the helical pile installation contractor provide confirmation that the installation equipment has been calibrated within one year of installation at this project. The helical foundations should be installed per the manufacturer's recommendations. Installation of helical piles should be observed by our office to document pile depth, pile size, and installation torque. Strength parameters for design of the elements are presented in table I below.

Table I: Soil Strength Parameters

Depth Range (ft) ^(a)	Angle of internal friction, ϕ	Unit weight, γ , (pcf) ^(b)	Undrained Shear Strength (S_u)(psf) ^(c)	Coefficient of Subgrade Reaction (K_s) (kcf) ^(d)
0 to 8.0	10°	110	1,000	50
8.0 to 12.0	15°	115	1,500	250
12.0 to 16.0	35°	125	neglect	1,500
16.0 to 22.0	15°	120	2,000	500
22.0 to 28.0	35°	125	neglect	1,500
28.0 to 30.0	40°	130	neglect	2,500

(a) Measured from existing ground surface the time the exploration was conducted

(b) pcf = pounds per square foot

(c) psf = pounds per square foot

(d) kcf = kips per cubic foot

6. FINAL COMMENTS

In the preceding discussions we have presented our conclusions and recommendations based upon results attained from our field exploration made by means of one test boring, visual inspection of the site area, and soil parameter assumptions and other pertinent information advanced to this office. It is our understanding best geotechnical engineering practices were adopted in achieving said goals.

Differing conditions could arise as the field work progresses. If any such differing conditions arise, the geotechnical engineer in charge must carry out the pertinent evaluation and produce, at his own risk, the recommendations to deal with such event.

Finally, all backfill operations shall be conducted **under the permanent supervision by this engineering office** that is to also certify the degree of quality excellence achieved in the construction of the deposit.

Respectfully Submitted,

Luis J. Urquiza Román, M.C.E., P.E.
Staff Geotechnical Engineer



EXHIBIT "A"
SITE LOCATION MAP; SITE AND BORING
LOCATION PLAN; AND LOG
PROPOSED ENTRANCE STRUCTURE AND
NEW ELEVATOR SHAFT
PLAZA DEL MERCADO FACILITIES
JUAN R. GARZOT ST. CORNER GOYCO ST.
NAGUABO, PUERTO RICO
(VERA, LLC JOB NO. 22-5033)

By:

LUIS J. URQUIZA ROMAN, M.C.E. P.E.
VICTOR E. RIVERA ROLDAN, M.B.A., P.E.
VICTOR E. RIVERA ASSOCIATES, LLC
GEOTECHNICAL ENGINEERS



August 10, 2022



VICTOR E. RIVERA ASSOCIATES, LLC
GEOTECHNICAL ENGINEERS
& CONCRETE TESTING LABORATORIES



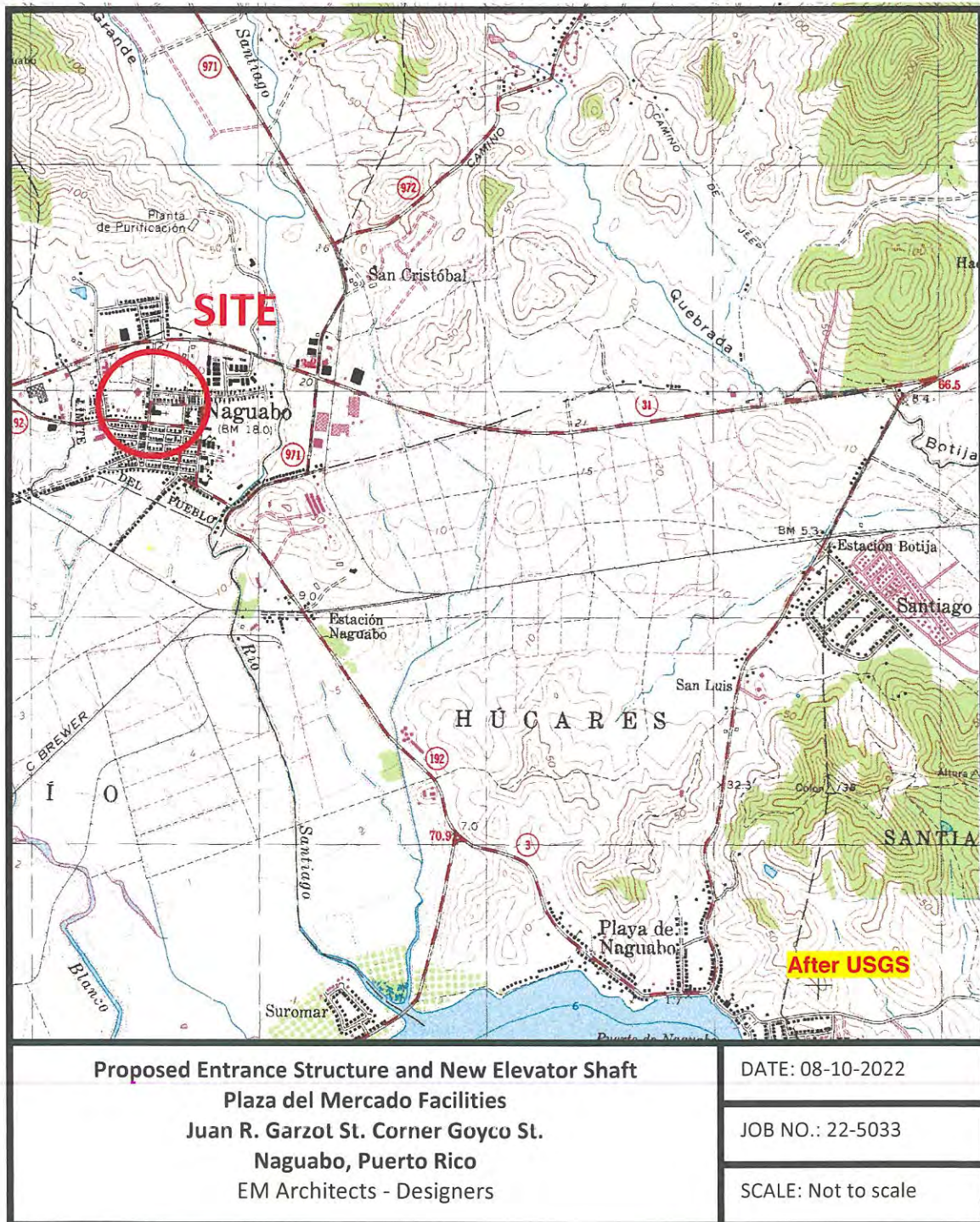
AASHTO R18®
Accredited Laboratory



**US Army Corps
of Engineers®**
Validated Laboratory

SITE LOCATION MAP

After US Geological Survey



VICTOR E. RIVERA ASSOCIATES LLC
GEOTECHNICAL ENGINEERS
& CONCRETE TESTING LABORATORIES

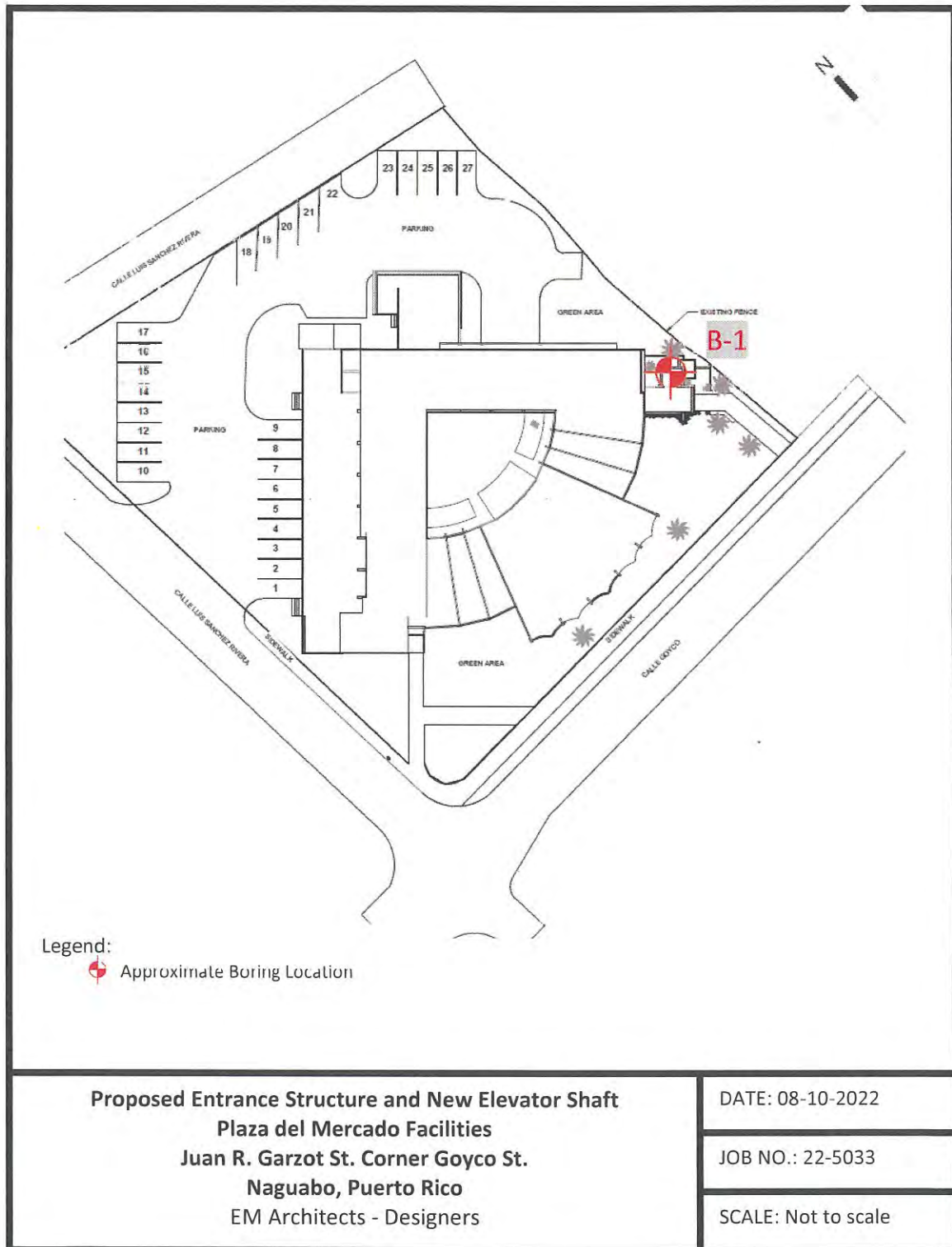


AASHTO R18®
Accredited Laboratory



US Army Corps
of Engineers®
Validated Laboratory

SITE AND BORING LOCATION PLAN



VICTOR E. RIVERA ASSOCIATES LLC
GEOTECHNICAL ENGINEERS
 & CONCRETE TESTING LABORATORIES



AASHTO R18®
 Accredited Laboratory



US Army Corps
of Engineers®
 Validated Laboratory

PROJECT: **Proposed Entrance Structure and New Elevator Shaft - Plaza Del Mercado Facilities** BORING NO.: **B-1** SHEET NO.: **1/1**

LOCATION: **Juan R. Garzot St. Corner Goyco St., Naguabo, P.R.** CLIENT: **EM Architects**

INSPECTOR: **L. Urquiza** DRILLER: **A. Ferrer** WORK STARTED: **7-08-2022** WORK FINISHED: **7-08-2022**

POWER DRIVEN HOLLOW STEM AUGER; SAMPLE-TYPES & SIZES **1 3/8" I.D. SPLIT SPOON** HAMMER WGT: **140 POUNDS**

HAMMER DROP: **30"** DRILLING FLUID: **NONE** CORE DATA-TYPE BARREL: **-----** TYPE & SIZE BIT **-----**

GROUND WATER: DATE AND DEPTH: **7-08-2022: -10ft.** DRILL MANUFACTURER TYPE & NO.: **CME-55**

"X" COORDINATE: **-----** "Y" COORDINATE: **-----** ELEVATION: **-----** JOB NO.: **22-5033**

DEPTH (FT.)	ELEV. (M)	S.P.T. "N" VALUES	DESCRIPTION OF MATERIALS	N	W _N	Q _u	LL	PI	%	Id
1		3 - 4	Clayey silt, some sand and gravel, medium - brown (a?)	7	28.4	---				
2		3 - 3	-2'							
3		3 - 5	Sandy clay, trace gravel, few iron pieces, soft - brown / gray (a?)	10	24.8	0.50				
4		5 - 5	-4'							
5		2 - 4	Clay, trace sand and gravel, medium soft to medium - gray (b)	8	34.1	0.50				
6		4 - 6								
7		6 - 8		18	37.7	0.75				
8		10 - 11	-8'							
9		10 - 29		40	23.1	1.25				
10	▼	11 - 13	Gravelly clay, some sand, stiff - brownish yellow (b)							
11			-12'							
12										
13			Clayey gravel with sand, medium - gray (b)							
14										
15		9 - 12		29	17.8	---				A
16		17	-16'							
17										
18			Gravelly clay with sand, stiff - brownish yellow (b)							
19										
20		16 - 15		31	16.6	---				
21		16	-22'							
22										
23										
24										
25		20 - 13	Clayey sand with gravel, medium - yellowish brown (b)	28	13.6	---				
26		15								
27										
28			-28'							
29			Sandy gravel, some clay, very dense - yellowish brown (b)							
30		28 - 50/5"	-30'	50/5"	10.3	---				B
31			END OF BORING							
32										
33			(a) man-made fill, most probable							
34			(b) alluvial deposit							
35										

* = UNCONFINED COMPRESSIVE STRENGTH IN TONS PER SQ. FT. DETERMINED USING A POCKET PENETROMETER

(1) NO. OF BLOWS REQUIRED TO DRIVE SAMPLER 0"-6", 6"-12", 12"-18", 18"-24"

(2) FORCE TO CAUSE THIN WALLED SAMPLER TO PENETRATE AT RATE 1/2 FT/SEC.

W_N = NATURAL MOISTURE CONTENT IN % OF DRY WEIGHT

Q_u = UNCONFINED COMPRESSIVE STRENGTH IN TONS PER SQ. FT.

Td = TYPE OF DRILLING

(A) = STANDARD BORING IN SOILS SHOWING "N" VALUES BELOW 50

(B) = ROTARY DRILLING USING ALLOY DRAG BIT AND/OR IN SOILS SHOWING "N" VALUES ABOVE 50

WH = WEIGHT OF HAMMER

N = SUM OF SAMPLER PENETRATION FROM 6" TO 18"

LL = LIQUID LIMIT

PI = PLASTICITY INDEX

% = PERCENT FINER THAN NO. 200 SIEVE

γ_w = WET DENSITY IN POUNDS PER CUBIC FEET (PCF)

EXHIBIT "B"
ROUTINE FIELD AND LABORATORY TESTING PROCEDURES
PROPOSED ENTRANCE STRUCTURE AND
NEW ELEVATOR SHAFT
PLAZA DEL MERCADO FACILITIES
JUAN R. GARZOT ST. CORNER GOYCO ST.
NAGUABO, PUERTO RICO
(VERA, LLC JOB NO. 22-5033)

By:
LUIS J. URQUIZA ROMAN, M.C.E. P.E.
VICTOR E. RIVERA ROLDAN, M.B.A., P.E.
VICTOR E. RIVERA ASSOCIATES, LLC
GEOTECHNICAL ENGINEERS



August 10, 2022



VICTOR E. RIVERA ASSOCIATES, LLC
GEOTECHNICAL ENGINEERS
& CONCRETE TESTING LABORATORIES



AASHTO R18®
Accredited Laboratory



**US Army Corps
of Engineers®**
Validated Laboratory

EXHIBIT "B"

ROUTINE FIELD AND LABORATORY TESTING PROCEDURES

The borings were made by the Auger Drilling Method or Process. The Auger Drilling Method consist of powered turning a continuous flight hollow stem auger 6" O.D. and 2 ½" I.D. into the soil to the desired depth or level. The auger is used to advance and case the test hole simultaneously. It is used with a center rod and plug assembly at it lower end. The plug assembly is held in-place by the cap inside drill rod and is coupled to the auger and its assembly to the rotating spindle on the drill rig, thus preventing dirt from entering the mouth of the auger.

Once the desire depth of level for sampling is reached, the plug is retracted by withdrawing the center rod to permit lowering of the sampler or core barrel, as the case may be, through the auger. After the sampler is retracted, the plug is reinserted and held in-place by the center rod, another auger section is connected to the first, together with one additional center rod to secure the plug to the cap, and the hole is advanced.

This procedure is repeated until the desire hole depth is reached. The auger can always be stopped at any depth level to allow normal sampling practice.

Soil samples are secured from the bottom of the hole by means of a 1 3/8" I.D. Split Spoon Sampler. While securing the soil samples, the standard penetration test is performed and the "N" values obtained. This is the number of blows required to drive the sampling spoon at a distance of 1 foot into the ground with 140 pounds hammer falling 30 inches. The "N" values give an indication of the consistency of cohesive soils and the state of packing of granular soils as follows:

COHESIVE SOILS

"N" Value (Blow/Ft.)	Consistency	Unconfined Compressive Strength (TSF)
Less than 2	Very Soft	0.25
2-4	Soft	0.25 - 0.50
4-8	Medium	0.50 - 1.00
8-15	Stiff	1.00 - 2.00
15-30	Very Stiff	2.00 - 4.00
More than 30	Hard	4.00

GRANULAR SOILS

"N" Values (Blows/Ft.)	Relative Density
0-5	Very Loose
5-10	Loose
10-30	Medium
30-50	Dense
Over 50	Very Dense

LABORATORY WORK

IDENTIFICATION OF SOILS

Soil samples are classified according to their constituents, and the following terminology is used to denote the percentage by weight of each component:

Description Term	Range of Proportion (%)
Trace	1-10
Some	10-20
Adjective (sandy, silty, clayey)	20-35
And	35-50

Granular soils are non-cohesive soils consisting of boulders, gravel, sand, silt, either separately or in combination, that is, soil showing no-plasticity. Boulders are the constituents with an average diameter larger than 3-inches. Gravel ranges from fine (No. 10 Sieve) to coarse (3 inches sieve). Sand particles are those passing No. 10 Sieve and retained on No. 200 mesh. The silt particle ranges from 0.66 to 0.002 mm.

Cohesive soils are those which possess characteristics of cohesiveness and plasticity. They may be granular soils as described above with the addition of clay or organic silt which causes cohesion and plasticity, or may be clay or organic silt with no coarse components. The clay fraction is composed of clay minerals and in general has an average particle diameter of less than 0.002 mm.

The organic fraction is that portion with average particle diameter less than 0.06 mm. The clay and organic silt may occur separately or in conjunction.

Both materials will exhibit plastic qualities within a certain range of water content, but the range will be greater in the case of clay. The organic silt has a more granular appearance than the clay.

Besides the constituents and colors, each sample is carefully examined for stratifications, presence of secondary structures, shells, fibrous or disseminated peat, plasticity, or any foreign matter that might undermine its shearing resistance, that is, its load carrying capacity.

NATURAL MOISTURE CONTENT

The natural moisture content is determined by finding the quality of water present in the voids of the soil specimen in the natural condition and dividing it by the dry weight of the sample. The result thus attained is expressed as a percentage (dry weight basis).

The weight of the water is determined by subtracting the weight of a soil specimen in its natural condition from the weight of the specimen after been dried in an oven at 110 C twenty four (24) hours.

UNCONFINED COMPRESSION TESTS

The cohesive soil specimens obtained from split spoon samples, cannot be considered as undisturbed samples, nevertheless, their unconfined compressive strength can be easily determined to obtain some information as to the shearing strength. Unconfined compressive strength tests were performed by subjecting cylinders of soil some 2.75" high by 1.375" in diameter to axial deflection at a constant load and measuring the resisting stress developed in the soil. The load applied on the samples is measured by a scale and the deflection recorded on a strain dial calibrated in thousands of an inch.

OTHER DRILLING METHOD

- A Semi-Consolidated or Gravel Materials
 (B-Type of Drilling) Where Applicable:

Advancement of the hole into semi-consolidated or gravelly deposit generally showing "N" values below 100 by means of the conventional method previously described results on a very

low and costly operation, thus, requiring a different system for deepening the hole. On this case, a combined drilling and sampling method is used.

Sampling is made on the standard way already discussed, however, advancement of the hole is achieved by means of rotary drilling using alloy drag bit placed at the lower end of the powered turning rod. This method also combines from the standard wash boring the jet of water to clean-out the soil debris produced by the drilling action.

B. Rock Coring (C-Type of Drilling) Where Applicable:

This method is applied for drilling into hard or consolidated rock and some coarse gravel and boulder deposits, and basically consists of drilling with diamond bits secured to the lower end of a rock sampler (core barrel). This barrel is double tube to insure a high percentage of core recovery for most adequate evaluation of the rock sample.

Respectfully Submitted,

VICTOR E. RIVERA ASSOCIATES, LLC
GEOTECHNICAL ENGINEERS

vmr

ATTACHMENT A
LOCATION MAP



PR CRP 001010 Rehabilitación y Mejoras a la Plaza del Mercado
Lat: 18.21292823, Lon: -65.73647730

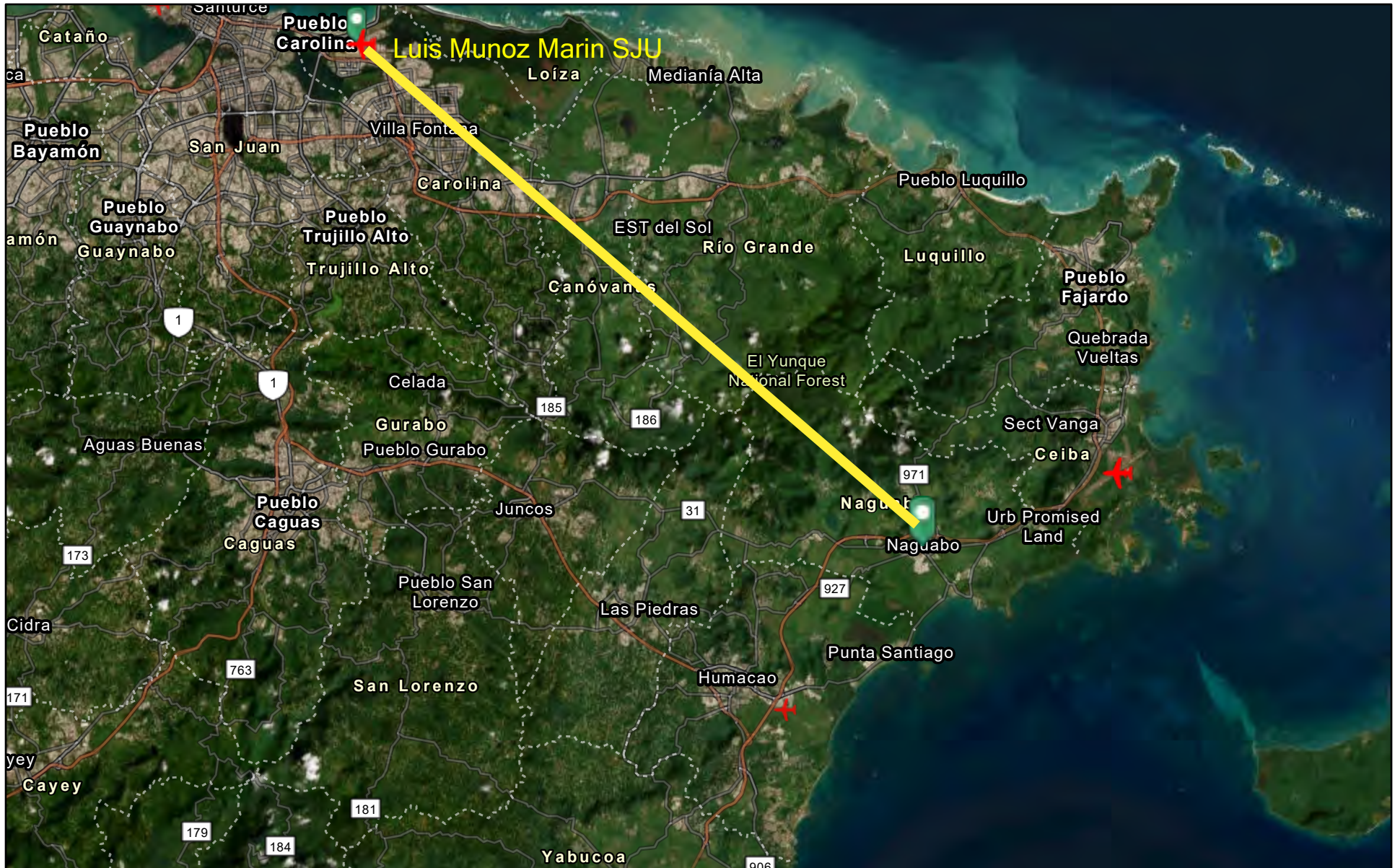


<https://earth.google.com/web/@18.21276801,-65.73618939,18.97397343a,758.5810401d,35y,1.55443746h,0t,0r>

ATTACHMENT B

Airport Hazards

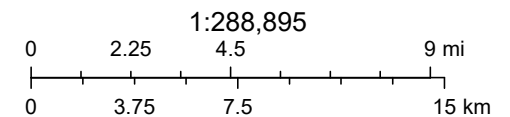
24 CFR Part 51 Subpart D



May 23, 2023



Airport Points Luis Muñoz Marín (SJU) is located within 124,450 feet



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

ATTACHMENT C

Coastal Barrier Resources

Coastal Barrier Resources Act, as amended by the Coastal Barrier Improvement Act of 1990 [16 USC
3501]



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

Rehabilitación y Mejoras en la Plaza del Mercado

PR CRP 001010 Attachment C

Lat: 18.21292823, Lon: -65.73647730



U.S. Fish and Wildlife Service, Coastal Barrier Resources Act Program, Esri, HERE, Garmin, (c) OpenStreetMap contributors
U.S. Fish and Wildlife Service, Coastal Barrier Resources Act Program, CBRA@FWS.gov
Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community

May 26, 2023

 CBRS Buffer Zone

 System Unit

CBRS Units

 Otherwise Protected Area



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

This page was produced by the CBRS Mapper

Coastal Barrier Resources System Mapper Documentation



CBRS Units

- Otherwise Protected Area
- CBRS Buffer Zone
- System Unit
- 65.736492, 18.212859

0 65 130 260 390 ft

1:4,514



The pin location displayed on the map is a point selected by the user. Failure of the user to ensure that the pin location displayed on this map correctly corresponds with the user supplied address/location description below may result in an invalid federal flood insurance policy. **The U.S. Fish and Wildlife Service (Service) has not validated the pin location with respect to the user supplied address/location description below. The Service recommends that all pin locations be verified by federal agencies prior to use of this map for the provision or denial of federal funding or financial assistance.** Please note that a structure bisected by the Coastal Barrier Resources System (CBRS) boundary (i.e., both "partially in" and "partially out") is within the CBRS and therefore affected by CBRA's restrictions on federal flood insurance. A pin placed on a bisected structure must be placed on the portion of the structure within the unit (including any attached features such as a deck or stairs).

User Name: Naguabo

User Organization: Municipio de Naguabo

User Supplied Address/Location Description: Plaza del Mercado Naguabo

Pin Location: Outside CBRS

Pin Flood Insurance Prohibition Date: N/A

Pin System Unit Establishment Date: N/A

The user placed pin location is not within the CBRS. For the nearest official CBRS map depicting this area, please see the map numbered 72-006A, dated 11/15/2016. The official CBRS maps are accessible at <https://www.fws.gov/library/collections/official-coastal-barrier-resources-system-maps>.

The CBRS information is derived directly from the CBRS web service provided by the Service. This map was exported on 5/25/2023 and does not reflect changes or amendments subsequent to this date. The CBRS boundaries on this map may become superseded by new boundaries over time.

This map image may be void if one or more of the following map elements do not appear: basemap imagery, CBRS unit labels, prohibition date labels, legend, scale bar, map creation date. For additional information about flood insurance and the CBRS, visit: <https://www.fws.gov/node/263838>.



PR CRP 001010 Rehabilitación y Mejoras a la Plaza del Mercado

Lat: 18.21292823, Lon: -65.73647730



ATTACHMENT D

Flood Insurance

Flood Disaster Protection Act of 1973 and National Flood Insurance Reform Act of 1994 [42 USC 4001-4128 and 42 USC 5154a]

National Flood Hazard Layer FIRMette

<https://hazards-fema.maps.arcgis.com/apps/webappviewer/index>

Lat: 18.21292823, Lon: -65.73647730



Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
MAP PANELS		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
		Digital Data Available
		No Digital Data Available
		Unmapped



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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **12/18/2022 at 4:40 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.



0 250 500 1,000 1,500 2,000 Feet 1:6,000

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

ATTACHMENT E

Clean Air

Clean Air Act, as amended, particularly section 176(c) & (d); 40 CFR Parts 6, 51, 93

PR CRP 001010 Rehabilitación y Mejoras a la Plaza del Mercado Lat: 18.21292823, Lon: -65.73647730

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 February 28, 2023

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

* The 1997 Primary Annual PM-2.5 NAAQS (level of 15 µg/m3) 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:

Important Notes

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

County	NAAQS	Area Name	Nonattainment in Year	Redesignation to Maintenance	Classification	Whole or/Part County	Population (2010)	State/County FIPS Codes
PUERTO RICO								
Arecibo Municipio	Lead (2008)	Arecibo, PR	11121314151617181920212223	//		Part	32,185	72/013
Bayamon Municipio	Sulfur Dioxide (2010)	San Juan, PR	181920212223	//		Part	22,921	72/021
Catano Municipio	Sulfur Dioxide (2010)	San Juan, PR	181920212223	//		Whole	28,140	72/033
Guaynabo Municipio	PM-10 (1987)	Mun. of Guaynabo, PR	929394959697989900010203040506070809	02/11/2010	Moderate	Part	90,470	72/061
Guaynabo Municipio	Sulfur Dioxide (2010)	San Juan, PR	181920212223	//		Part	23,802	72/061
Salinas Municipio	Sulfur Dioxide (2010)	Guayama-Salinas, PR	181920212223	//		Part	23,401	72/123
San Juan Municipio	Sulfur Dioxide (2010)	San Juan, PR	181920212223	//		Part	147,963	72/127
Toa Baja Municipio	Sulfur Dioxide (2010)	San Juan, PR	181920212223	//		Part	52,441	72/137

Important Notes

Discover.

Connect.

Ask.

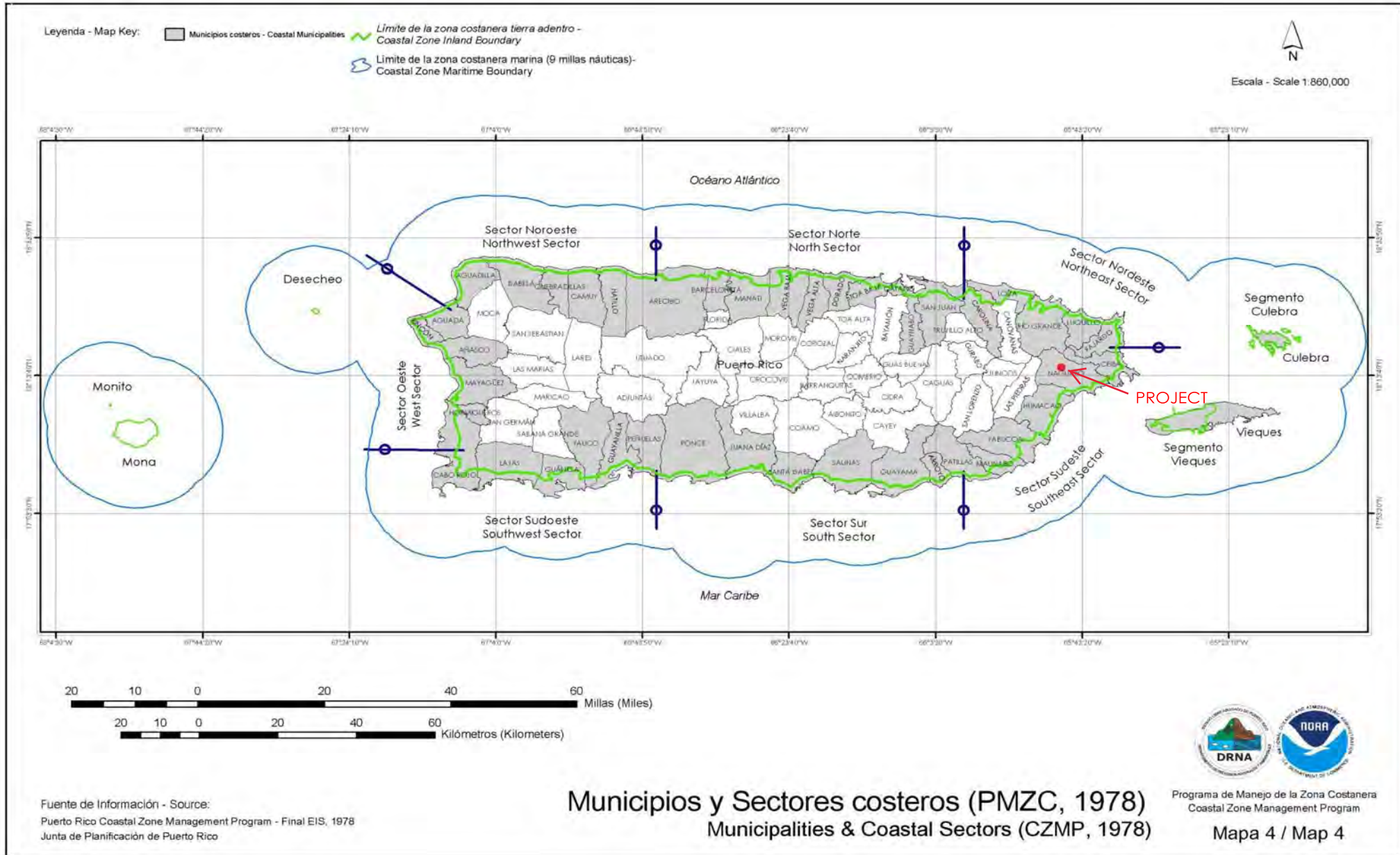
ATTACHMENT F

Coastal Zone Management

Coastal Zone Management Act, sections 307(c) & (d)

PR-CRP-001010 Rehabilitación y Mejoras en la Plaza del Mercado

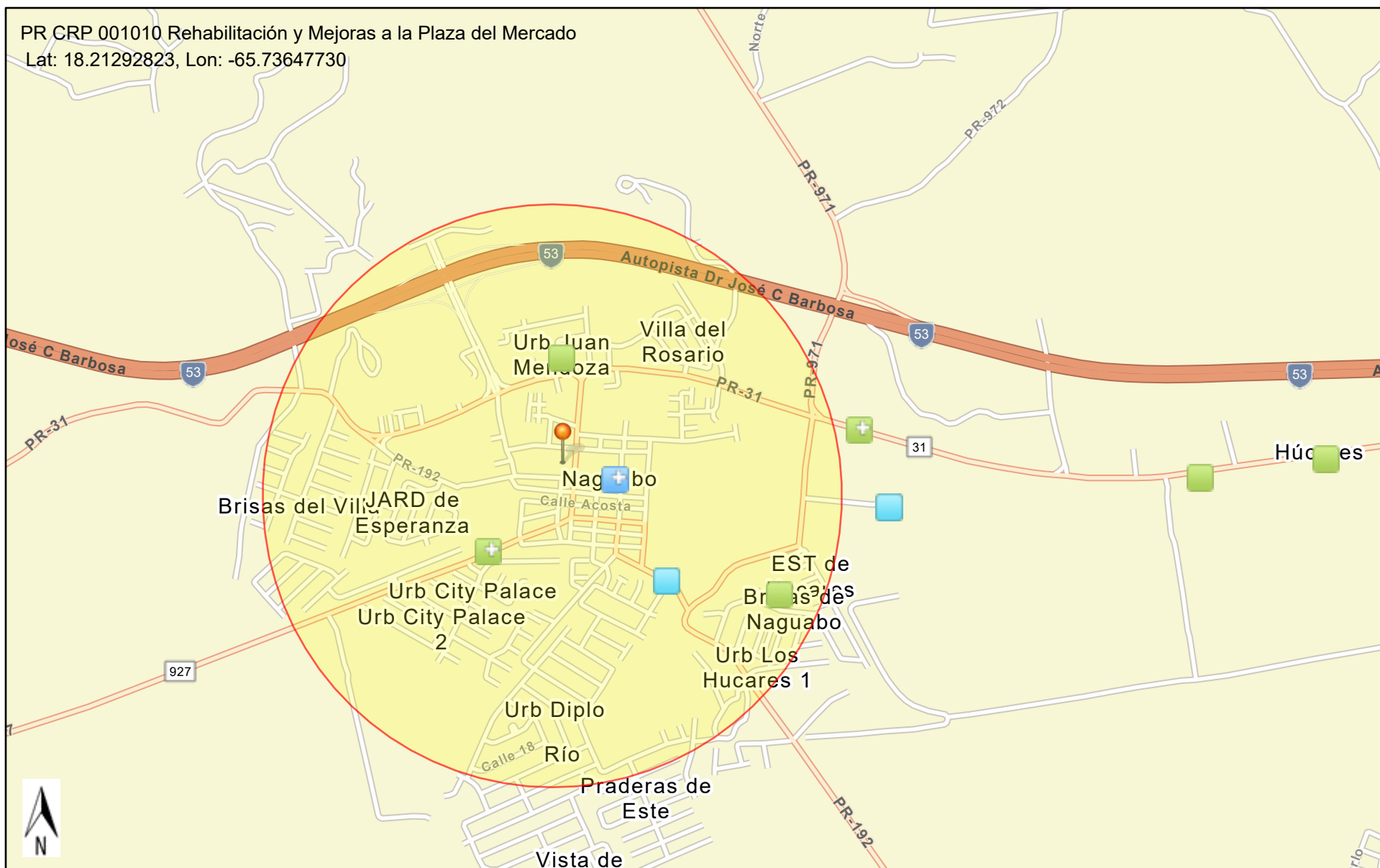
Lat: 18.21292823, Lon: -65.73647730



ATTACHMENT G

Contamination and Toxic Substances

24 CFR Part 50.3(i) & 58.5(i)(2)



April 16, 2023



Toxic Releases (TRI)



Water Dischargers (NPDES)



Hazardous Waste (RCRAInfo)



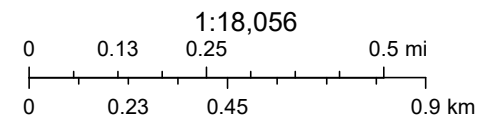
Hazardous Waste (RCRAInfo)



Project Buffer



PR-CRP-001010



Esri Community Maps Contributors, Esri, HERE, Garmin, Foursquare, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, NPS, US Census



<https://nepassisttool.epa.gov/nepassist/nepamap.aspx?wherestr=Naguabo+PR>

NEPAssist Report

PR-CRP-001010

A3 Landscape



January 16, 2024

Project Buffer

PR-CRP-001010

Water Dischargers (NPDES)

Toxic Releases (TRI)

Hazardous Waste (RCRAInfo)

Hazardous Waste (RCRAInfo)

1:11,466

0 0.13 0.25 0.5 mi
0 0.2 0.4 0.8 km

Maxar

Project Location	18.212416,- 65.736315
Within 3000 feet of an Ozone 1-hr (1979 standard) Non-Attainment/Maintenance Area?	no
Within 3000 feet of an Ozone 8-hr (1997 standard) Non-Attainment/Maintenance Area?	no
Within 3000 feet of an Ozone 8-hr (2008 standard) Non-Attainment/Maintenance Area?	no
Within 3000 feet of an Ozone 8-hr (2015 standard) Non-Attainment/Maintenance Area?	no
Within 3000 feet of a Lead (2008 standard) Non-Attainment/Maintenance Area?	no
Within 3000 feet of a SO2 1-hr (2010 standard) Non-Attainment/Maintenance Area?	no
Within 3000 feet of a PM2.5 24hr (2006 standard) Non-Attainment/Maintenance Area?	no
Within 3000 feet of a PM2.5 Annual (1997 standard) Non-Attainment/Maintenance Area?	no
Within 3000 feet of a PM2.5 Annual (2012 standard) Non-Attainment/Maintenance Area?	no
Within 3000 feet of a PM10 (1987 standard) Non-Attainment/Maintenance Area?	no
Within 3000 feet of a CO Annual (1971 standard) Non-Attainment/Maintenance Area?	no
Within 3000 feet of a NO2 Annual (1971 standard) Non-Attainment/Maintenance Area?	no
Within 3000 feet of a Federal Land?	no
Within 3000 feet of an impaired stream?	no
Within 3000 feet of an impaired waterbody?	yes
Within 3000 feet of a waterbody?	yes
Within 3000 feet of a stream?	yes
Within 3000 feet of an NWI wetland?	Available Online
Within 3000 feet of a Brownfields site?	no
Within 3000 feet of a Superfund site?	no

Within 3000 feet of a Toxic Release Inventory (TRI) site?	yes
Within 3000 feet of a water discharger (NPDES)?	yes
Within 3000 feet of a hazardous waste (RCRA) facility?	yes
Within 3000 feet of an air emission facility?	no
Within 3000 feet of a school?	no
Within 3000 feet of an airport?	no
Within 3000 feet of a hospital?	yes
Within 3000 feet of a designated sole source aquifer?	no
Within 3000 feet of a historic property on the National Register of Historic Places?	yes
Within 3000 feet of a Land Cession Boundary?	no
Within 3000 feet of a tribal area (lower 48 states)?	no
Within 3000 feet of the service area of a mitigation or conservation bank?	no
Within 3000 feet of the service area of an In-Lieu-Fee Program?	no
Within 3000 feet of a Public Property Boundary of the Formerly Used Defense Sites?	no
Within 3000 feet of a Munitions Response Site?	no
Within 3000 feet of an Essential Fish Habitat (EFH)?	yes
Within 3000 feet of a Habitat Area of Particular Concern (HAPC)?	no
Within 3000 feet of an EFH Area Protected from Fishing (EFHA)?	no
Within 3000 feet of a Bureau of Land Management Area of Critical Environmental Concern?	no
Within 3000 feet of an ESA-designated Critical Habitat Area per U.S. Fish & Wildlife Service?	no
Within 3000 feet of an ESA-designated Critical Habitat river, stream or water feature per U.S. Fish & Wildlife Service?	no

Created on: 1/16/2024 9:04:06 PM

Detailed Facility Report



Detailed Facility Report

Facility Summary

COMBE PRODUCTS

EL DUQUE INDUSTRIAL PARK RD 971 ST A, NAGUABO, PR 00718

FRS (Facility Registry Service) ID: 110022522019

EPA Region: 02

Latitude: 18.210845

Longitude: -65.726706

Locational Data Source: FRS

Industries: --

Indian Country: N

Enforcement and Compliance Summary

Statute	CAA
Compliance Monitoring Activities (5 years)	--
Date of Last Compliance Monitoring Activity	--
Compliance Status	--
Qtrs in Noncompliance (of 12)	--
Qtrs with Significant Violation	--
Informal Enforcement Actions (5 years)	--
Formal Enforcement Actions (5 years)	--
Penalties from Formal Enforcement Actions (5 years)	--
EPA Cases (5 years)	--
Penalties from EPA Cases (5 years)	--
Statute	RCRA
Compliance Monitoring Activities (5 years)	--
Date of Last Compliance Monitoring Activity	05/18/2009
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, (PRR000013342), Active VSQG, (PRD000767863)

Safe Drinking Water Act (SDWA): No Information

[Go To Enforcement/Compliance Details](#)

[Known Data Problems](#)

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): 00718CMBPRELDUQ

Compliance and Emissions Data Reporting Interface (CEDRI): CEDRI2434

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110022522019					N	18.210845	-65.726706
ICIS		7426813					N	18.210845	-65.726706
CEDRI	CAA	CEDRI2434					N	18.21189	-65.73336
TRI	EP313	00718CMBPRELDUQ		Last Reported for 2021			N	18.210845	-65.726706
RCRAInfo	RCRA	PRR000013342	VSQG	Active (H)			N	18.233692	-65.738213
RCRAInfo	RCRA	PRD000767863	VSQG	Active (H)			N	18.230947	-65.736373

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110022522019	COMBE PRODUCTS	EL DUQUE INDUSTRIAL PARK RD 971 ST A, NAGUABO, PR 00718	Naguabo Municipio
ICIS		7426813	COMBE PRODUCTS LTD	STATE RD 971 STREET A, NAGUABO, PR 00718	Naguabo Municipio
CEDRI	CAA	CEDRI2434	COMBE PRODUCTS	EL DUQUE INDUSTRIAL PARK RD 971 ST A, NAGUABO, PR 00718	Naguabo Municipio
TRI	EP313	00718CMBPRELDUQ	COMBE PRODUCTS INC.	EL DUQUE INDUSTRIAL PARK RD 971 ST A, NAGUABO, PR 00718	Naguabo Municipio
RCRAInfo	RCRA	PRR000013342	COMBE PRODUCTS LTD	STATE RD 971 STREET A, NAGUABO, PR 00718-8588	Naguabo Municipio
RCRAInfo	RCRA	PRD000767863	COMBE PRODUCTS LTD	RD 971 ST A EL DUNQUE PARK, HUMACAO, PR 00718	Humacao 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
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No data records returned

Facility Tribe Information

Reservation Name	Tribe Name	EPA Tribal ID	Distance to Tribe (miles)
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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)
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No data records returned

Entries in italics are not counted as EPA official inspections.

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	PRR000013342	No	05/20/2023	0	05/19/2023
RCRA	PRD000767863	No	05/20/2023	0	05/19/2023

Three-Year Compliance History by Quarter

Statute	Program/Pollutant/Violation Type		QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11	QTR 12+
RCRA (Source ID: PRD000767863)			07/01-09/30/20	10/01-12/31/20	01/01-03/31/21	04/01-06/30/21	07/01-09/30/21	10/01-12/31/21	01/01-03/31/22	04/01-06/30/22	07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/01-06/30/23
	Facility-Level Status		No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified
	Violation	Agency												
RCRA (Source ID: PRR000013342)			07/01-09/30/20	10/01-12/31/20	01/01-03/31/21	04/01-06/30/21	07/01-09/30/21	10/01-12/31/21	01/01-03/31/22	04/01-06/30/22	07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/01-06/30/23
	Facility-Level Status		No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified
	Violation	Agency												

Informal Enforcement Actions

Last 5 Years

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

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

Formal Enforcement Actions

Last 5 Years

▼

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

Environmental Conditions

Watersheds

12-Digit WBD (Watershed Boundary Dataset) HUC (RAD (Reach Address Database))	WBD (Watershed Boundary Dataset) Subwatershed Name (RAD (Reach Address Database))	State Water Body Name (ICIS (Integrated Compliance Information System))	Beach Closures Within Last Year	Beach Closures Within Last Two Years	Pollutants Potentially Related to Impairment	Watershed with ESA (Endangered Species Act)-listed Aquatic Species?
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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	Aquatic Life	Fish Consumption Use	Recreation Use	Other Use
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No data records returned

Air Quality Nonattainment Areas

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

Pollutants

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

[TRI Pollution Prevention Report](#)

TRI Facility ID	Year	Total Air Emissions	Surface Water Discharges	Off-Site Transfers to POTWs (Publicly Owned Treatment Works)	Underground Injections	Releases to Land	Total On-Site Releases	Total Off-Site Transfers
00718CMBPRELDUQ	2021	--	--	250	--	--	0	94,555
00718CMBPRELDUQ	2020	--	--	61	--	--	0	1,231
00718CMBPRELDUQ	2019	--	--	427	--	--	0	8,536
00718CMBPRELDUQ	2018	--	--	500	--	--	0	1,500
00718CMBPRELDUQ	2017	--	--	37	--	--	0	372
00718CMBPRELDUQ	2016	--	--	500	--	--	0	1,500
00718CMBPRELDUQ	2015	--	--	500	--	--	0	1,500
00718CMBPRELDUQ	2014	--	--	2,537	--	--	0	15,759

TRI Facility ID	Year	Total Air Emissions	Surface Water Discharges	Off-Site Transfers to POTWs (Publicly Owned Treatment Works)	Underground Injections	Releases to Land	Total On-Site Releases	Total Off-Site Transfers
00718CMBPRELDUQ	2013	--	--	4,835	--	--	0	5,340
00718CMBPRELDUQ	2012	--	--	6,194	--	--	0	6,879

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

Chemical Name	2021	2020	2019	2018	2017	2016	2015	2014	2013	2012
Certain glycol ethers	--	--	--	--	0	500	500	1,232	3,833	5,317
Diethanolamine	--	--	--	--	372	--	--	--	--	--
Mixture	94,555	1,231	8,536	1,500	--	--	--	--	--	--
p-Phenylenediamine	--	--	--	--	0	1,000	1,000	14,527	1,507	1,562

Community

Environmental Justice

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

EJScreen Indexes Shown

Compare to

☒ US ☐ State

Index Type

☐ Environmental Justice ☒ Supplemental

Related Reports

[EJScreen Report](#)

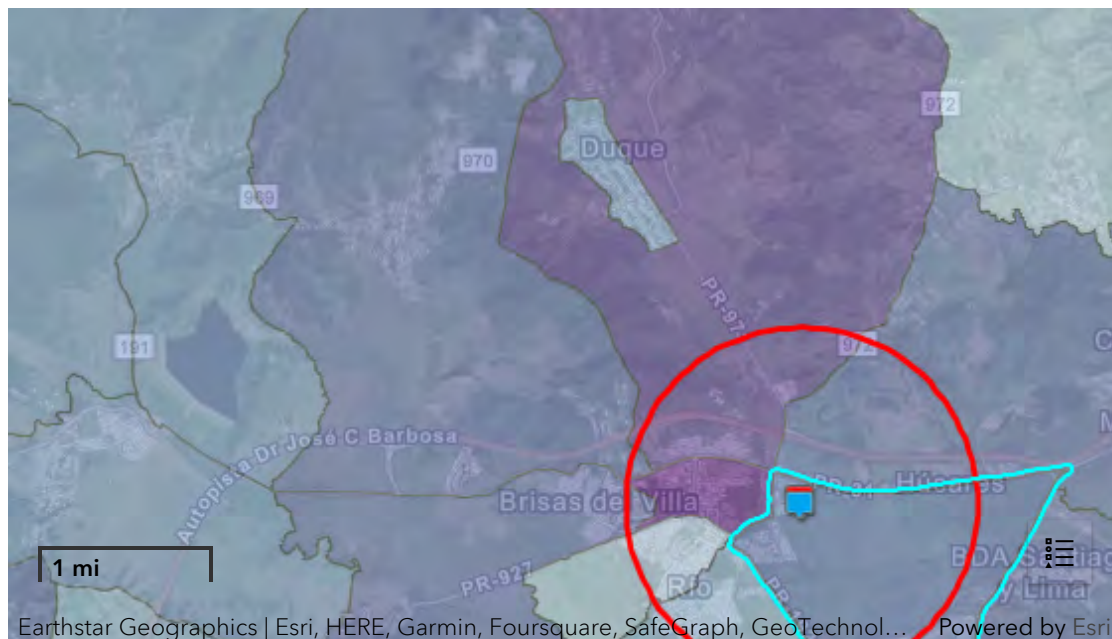
Download Data

Census Block Group ID: 721031703002	US (Percentile)	
Supplemental Indexes	Facility Census Block Group	1-mile Max
Count of Indexes At or Above 80th Percentile	6	8
Particulate Matter 2.5	--	--
Ozone	--	--
Diesel Particulate Matter	0	--
Air Toxics Cancer Risk	80	92
Air Toxics Respiratory Hazard Index	50	66
Traffic Proximity	77	98

☐ Facility 1-mile Radius ☐ Facility Census Block Group



Census Block Group ID: 721031703002	US (Percentile)	
Lead Paint	90	99
Risk Management Plan (RMP) Facility Proximity	99	99
Hazardous Waste Proximity	67	81
Superfund Proximity	94	98
Underground Storage Tanks (UST)	96	99
Wastewater Discharge	91	98



Demographic Profile of Surrounding Area (3 miles)

This section provides demographic information regarding the community surrounding the facility. ECHO compliance data alone are not sufficient to determine whether violations at a particular facility had negative impacts on public health or the environment. Statistics are based upon the 2010 U.S. Census and 2016 - 2020 American Community Survey (ACS) 5-year Summary and are accurate to the extent that the facility latitude and longitude listed below are correct. EPA's spatial processing methodology considers the overlap between the selected radii and the census blocks (for U.S. Census demographics) and census block groups (for ACS demographics) in determining the demographics surrounding the facility. For more detail about this methodology, see the [DFR Data Dictionary](#).

General Statistics (U.S. Census)	
Total Persons	17,453
Population Density	703/sq.mi.
Housing Units in Area	8,047
General Statistics (ACS (American Community Survey))	
Total Persons	16,999
Percent People of Color	99%
Households in Area	5,450
Households on Public Assistance	203
Persons With Low Income	14,502
Percent With Low Income	86%
Geography	

Age Breakdown (U.S. Census) - Persons (%)	
Children 5 years and younger	1,331 (8%)
Minors 17 years and younger	4,850 (28%)
Adults 18 years and older	12,603 (72%)
Seniors 65 years and older	2,299 (13%)
Race Breakdown (U.S. Census) - Persons (%)	
White	12,059 (69%)
African-American	3,223 (18%)
Hispanic-Origin	17,327 (99%)
Asian/Pacific Islander	37 (0%)
American Indian	67 (0%)
Other/Multiracial	2,068 (12%)

Geography	
Radius of Selected Area	3 mi.
Center Latitude	18.210845
Center Longitude	-65.726706
Land Area	88%
Water Area	12%
Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than \$15,000	1,964 (36.04%)
\$15,000 - \$25,000	1,383 (25.38%)
\$25,000 - \$50,000	1,402 (25.73%)
\$50,000 - \$75,000	531 (9.74%)
Greater than \$75,000	169 (3.1%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	1,131 (10.14%)
9th through 12th Grade	1,066 (9.56%)
High School Diploma	3,827 (34.31%)
Some College/2-year	854 (7.66%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	3,064 (27.47%)

LAST UPDATED ON SEPTEMBER 21, 2022

DATA REFRESH INFORMATION

Detailed Facility Report



Detailed Facility Report

Facility Summary

DUAL-LITE CAYMAN LTD

ROADS 31 AND 192, NAGUABO, PR 00718

FRS (Facility Registry Service) ID: 110002466448

EPA Region: 02

Latitude: 18.208761

Longitude: -65.733356

Locational Data Source: RCRAINFO

Industries: Electrical Equipment, Appliance, and Component Manufacturing

Indian Country: N

Enforcement and Compliance Summary

Statute	RCRA
Compliance Monitoring Activities (5 years)	--
Date of Last Compliance Monitoring Activity	03/27/2007
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, (PRD105741763)

Safe Drinking Water Act (SDWA): No Information

[Go To Enforcement/Compliance Details Known Data Problems](#)

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): 00718DLLTMINDUS

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

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110002466448					N	18.208761	-65.733356
TRI	EP313	00718DLLTMINDUS		Last Reported for 2004			N	18.212687	-65.74205
RCRAInfo	RCRA	PRD105741763	VSQG	Active (H)			N	18.212687	-65.74205

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		<u>110002466448</u>	DUAL-LITE CAYMAN LTD	ROADS 31 AND 192, NAGUABO, PR 00718	Naguabo Municipio
TRI	EP313	00718DLTMINDUS	DUAL-LITE MANUFACTURING INC	RD 31 INT 192, NAGUABO, PR 00718	Naguabo Municipio
RCRAInfo	RCRA	PRD105741763	DUAL-LITE CAYMAN LTD	RD 31 INTERSECTION RD 192, NAGUABO, PR 00718-1227	Naguabo Municipio

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description
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No data records returned

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description
RCRAInfo	PRD105741763	335122	Commercial, Industrial, and Institutional Electric Lighting Fixture Manufacturing

Facility Tribe Information

Reservation Name	Tribe Name	EPA Tribal ID	Distance to Tribe (miles)
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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)
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No data records returned

Entries in italics are not counted as EPA official inspections.

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	PRD105741763	No	05/20/2023	0	05/19/2023

Three-Year Compliance History by Quarter

[illegible]

Statute	Program/Pollutant/Violation Type		QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11	QTR 12+
	Violation	Agency												

Informal Enforcement Actions

Last 5 Years

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

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

Formal Enforcement Actions

Last 5 Years

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

Environmental Conditions

Watersheds

12-Digit WBD (Watershed Boundary Dataset) HUC (RAD (Reach Address Database))	WBD (Watershed Boundary Dataset) Subwatershed Name (RAD (Reach Address Database))	State Water Body Name (ICIS (Integrated Compliance Information System))	Beach Closures Within Last Year	Beach Closures Within Last Two Years	Pollutants Potentially Related to Impairment	Watershed with ESA (Endangered Species Act)-listed Aquatic Species?
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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	Aquatic Life	Fish Consumption Use	Recreation Use	Other Use
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No data records returned

Air Quality Nonattainment Areas

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

Pollutants

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

TRI Facility ID	Year	Total Air Emissions	Surface Water Discharges	Off-Site Transfers to POTWs (Publicly Owned Treatment Works)	Underground Injections	Releases to Land	Total On-Site Releases	Total Off-Site Transfers
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No data records returned

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

Chemical Name

No data records returned

Community

Environmental Justice

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

EJScreen Indexes Shown

Compare to

☒ US

☐ State

Index Type

☐ Environmental Justice

☒ Supplemental

Related Reports

[EJScreen Report](#)

Download Data		
Census Block Group ID: 721031704001	US (Percentile)	
Supplemental Indexes	Facility Census Block Group	1-mile Max
Count of Indexes At or Above 80th Percentile	8	8
Particulate Matter 2.5	--	--
Ozone	--	--
Diesel Particulate Matter	0	--
Air Toxics Cancer Risk	92	92
Air Toxics Respiratory Hazard Index	66	66
Traffic Proximity	98	98
Lead Paint	99	99

☐ Facility 1-mile Radius ☐ Facility Census Block Group

+

-



Census Block Group ID: 721031704001	US (Percentile)	
Risk Management Plan (RMP) Facility Proximity	99	99
Hazardous Waste Proximity	81	81
Superfund Proximity	98	98
Underground Storage Tanks (UST)	99	99
Wastewater Discharge	98	98



Demographic Profile of Surrounding Area (1 mile)

This section provides demographic information regarding the community surrounding the facility. ECHO compliance data alone are not sufficient to determine whether violations at a particular facility had negative impacts on public health or the environment. Statistics are based upon the 2010 U.S. Census and 2016 - 2020 American Community Survey (ACS) 5-year Summary and are accurate to the extent that the facility latitude and longitude listed below are correct. EPA's spatial processing methodology considers the overlap between the selected radii and the census blocks (for U.S. Census demographics) and census block groups (for ACS demographics) in determining the demographics surrounding the facility. For more detail about this methodology, see the [DFR Data Dictionary](#).

General Statistics (U.S. Census)	
Total Persons	8,148
Population Density	2,619/sq.mi.
Housing Units in Area	3,523

General Statistics (ACS (American Community Survey))	
Total Persons	4,899
Percent People of Color	99%
Households in Area	1,588
Households on Public Assistance	73
Persons With Low Income	3,991
Percent With Low Income	82%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.208761

Age Breakdown (U.S. Census) - Persons (%)	
Children 5 years and younger	762 (9%)
Minors 17 years and younger	2,649 (33%)
Adults 18 years and older	5,499 (67%)
Seniors 65 years and older	817 (10%)

Race Breakdown (U.S. Census) - Persons (%)	
White	5,659 (69%)
African-American	1,491 (18%)
Hispanic-Origin	8,103 (99%)
Asian/Pacific Islander	12 (0%)
American Indian	45 (1%)
Other/Multiracial	942 (12%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	316 (10.34%)

Geography	
Center Longitude	-65.733356
Land Area	100%
Water Area	0%
Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than \$15,000	564 (35.52%)
\$15,000 - \$25,000	372 (23.43%)
\$25,000 - \$50,000	479 (30.16%)
\$50,000 - \$75,000	114 (7.18%)
Greater than \$75,000	59 (3.72%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
9th through 12th Grade	426 (13.94%)
High School Diploma	731 (23.91%)
Some College/2-year	206 (6.74%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	1,095 (35.82%)

LAST UPDATED ON SEPTEMBER 21, 2022

[DATA REFRESH INFORMATION](#)

Detailed Facility Report



Detailed Facility Report

Facility Summary

RANSBURG

ST RD 31 KM 2.6, NAGUABO, PR 00718

FRS (Facility Registry Service) ID: 110032659424

EPA Region: 02

Latitude: 18.215077

Longitude: -65.736484

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, (PRN008016669)

Safe Drinking Water Act (SDWA): No Information

[Go To Enforcement/Compliance Details](#)

[Known Data Problems](#)

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): No Information

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

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110032659424					N	18.215077	-65.736484
RCRAInfo	RCRA	PRN008016669	Other	Inactive ()			N	18.215077	-65.736484

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110032659424	RANSBURG	ST RD 31 KM 2.6, NAGUABO, PR 00718	Naguabo Municipio
RCRAInfo	RCRA	PRN008016669	RANSBURG	ST RD 31 KM 2.6, NAGUABO, PR 00718	Naguabo Municipio

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description
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No data records returned

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description
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No data records returned

Facility Tribe Information

Reservation Name	Tribe Name	EPA Tribal ID	Distance to Tribe (miles)
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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)
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No data records returned

Entries in italics are not counted as EPA official inspections.

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	PRN008016669	No	05/20/2023	0	05/19/2023

Three-Year Compliance History by Quarter

Statute	Program/Pollutant/Violation Type		QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11	QTR 12+
RCRA (Source ID: PRN008016669)			07/01-09/30/20	10/01-12/31/20	01/01-03/31/21	04/01-06/30/21	07/01-09/30/21	10/01-12/31/21	01/01-03/31/22	04/01-06/30/22	07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/01-06/30/23
	Facility-Level Status		No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified
	Violation	Agency												

Informal Enforcement Actions

Last 5 Years

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

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

Formal Enforcement Actions

Last 5 Years

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

Environmental Conditions

Watersheds

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

No data records returned

Assessed Waters From Latest State Submission (ATTAINS)

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

Air Quality Nonattainment Areas

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

Pollutants

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

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

No data records returned

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

Chemical Name

No data records returned

Community

Environmental Justice

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

EJScreen Indexes Shown
















Compare to ☒ US ☐ State

Index Type ☐ Environmental Justice ☒ Supplemental

Related Reports

[EJScreen Report](#)

Download Data

Census Block Group ID: 721031701002	US (Percentile)	
Supplemental Indexes	Facility Census Block Group	1-mile Max
Count of Indexes At or Above 80th Percentile	7	8
Particulate Matter 2.5	--	--
Ozone	--	--
Diesel Particulate Matter	0	--
Air Toxics Cancer Risk	 83	 92
Air Toxics Respiratory Hazard Index	53	66
Traffic Proximity	 95	 98
Lead Paint	 97	 99
Risk Management Plan (RMP) Facility Proximity	 97	 99
Hazardous Waste Proximity	68	 81
Superfund Proximity	 96	 98
Underground Storage Tanks (UST)	 89	 99
Wastewater Discharge	 97	 98

☐ Facility 1-mile Radius

☐ Facility Census Block Group

+

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Demographic Profile of Surrounding Area (1 mile)

This section provides demographic information regarding the community surrounding the facility. ECHO compliance data alone are not sufficient to determine whether violations at a particular facility had negative impacts on public health or the environment. Statistics are based upon the 2010 U.S. Census and 2016 - 2020 American Community Survey (ACS) 5-year Summary and are accurate to the extent that the facility latitude and longitude listed below are correct. EPA's spatial processing methodology considers the overlap between the selected radii and the census blocks (for U.S. Census demographics) and census block groups (for ACS demographics) in determining the demographics surrounding the facility. For more detail about this methodology, see the [DFR Data Dictionary](#).

General Statistics (U.S. Census)	
Total Persons	7,236
Population Density	2,262/sq.mi.
Housing Units in Area	3,200

General Statistics (ACS (American Community Survey))	
Total Persons	4,043
Percent People of Color	100%
Households in Area	1,283
Households on Public Assistance	57
Persons With Low Income	3,313
Percent With Low Income	82%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.215077
Center Longitude	-65.736484
Land Area	100%
Water Area	0%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than \$15,000	467 (36.46%)

Age Breakdown (U.S. Census) - Persons (%)	
Children 5 years and younger	652 (9%)
Minors 17 years and younger	2,262 (31%)
Adults 18 years and older	4,974 (69%)
Seniors 65 years and older	798 (11%)

Race Breakdown (U.S. Census) - Persons (%)	
White	5,044 (70%)
African-American	1,322 (18%)
Hispanic-Origin	7,200 (100%)
Asian/Pacific Islander	10 (0%)
American Indian	42 (1%)
Other/Multiracial	819 (11%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	264 (10.14%)
9th through 12th Grade	422 (16.21%)
High School Diploma	624 (23.96%)
Some College/2-year	180 (6.91%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	914 (35.1%)

Income Breakdown (ACS (American Community Survey)) - Households (%)	
\$15,000 - \$25,000	309 (24.12%)
\$25,000 - \$50,000	377 (29.43%)
\$50,000 - \$75,000	85 (6.64%)
Greater than \$75,000	43 (3.36%)

LAST UPDATED ON SEPTEMBER 21, 2022

[DATA REFRESH INFORMATION](#)

Detailed Facility Report



Detailed Facility Report

Facility Summary

NAGUABO STP

PR-927 KM 0.2, NAGUABO, PR 00718

FRS (Facility Registry Service) ID: 110007804420

EPA Region: 02

Latitude: 18.209592

Longitude: -65.738675

Locational Data Source: RCRAINFO

Industries: Utilities

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, (PRD000689844)

Safe Drinking Water Act (SDWA): No Information

[Go To Enforcement/Compliance Details](#)

[Known Data Problems](#)

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): No Information

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

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110007804420					N	18.209592	-65.738675
ICIS		44559					N	18.209592	-65.738675
RCRAInfo	RCRA	PRD000689844	Other	Inactive ()			N	18.209592	-65.738675

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110007804420	NAGUABO STP	PR-927 KM 0.2, NAGUABO, PR 00718	Naguabo Municipio
ICIS		44559	NAGUABO STP	STATE RD 927 KM 0.2, NAGUABO, PR 00718	Naguabo Municipio
RCRAInfo	RCRA	PRD000689844	NAGUABO STP	STATE RD 927 KM 0.2, NAGUABO, PR 00718	Naguabo 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	PRD000689844	22132	Sewage Treatment Facilities

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 counted as EPA official inspections.

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	PRD000689844	No	05/20/2023	0	05/19/2023

Three-Year Compliance History by Quarter

Statute	Program/Pollutant/Violation Type		QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11	QTR 12+
RCRA (Source ID: PRD000689844)			07/01-09/30/20	10/01-12/31/20	01/01-03/31/21	04/01-06/30/21	07/01-09/30/21	10/01-12/31/21	01/01-03/31/22	04/01-06/30/22	07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/01-06/30/23
	Facility-Level Status		No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified
	Violation	Agency												

Informal Enforcement Actions

Last 5 Years

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

No data records returned

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

Formal Enforcement Actions

Last 5 Years

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

No data records returned

Environmental Conditions

Watersheds

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

No data records returned

Assessed Waters From Latest State Submission (ATTAINS)

State	Report Cycle	Assessment Unit ID	Assessment Unit Name	Water Condition	Cause Groups Impaired	Drinking Water Use	Aquatic Life	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 in Pounds per Year at Site

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

No data records returned

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

Chemical Name

No data records returned

Community

Environmental Justice

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

EJScreen Indexes Shown

Related Reports

[EJScreen Report](#)

















Compare to ☒ US ☐ State

Index Type ☐ Environmental Justice ☒ Supplemental

Download Data

☐ Facility 1-mile Radius

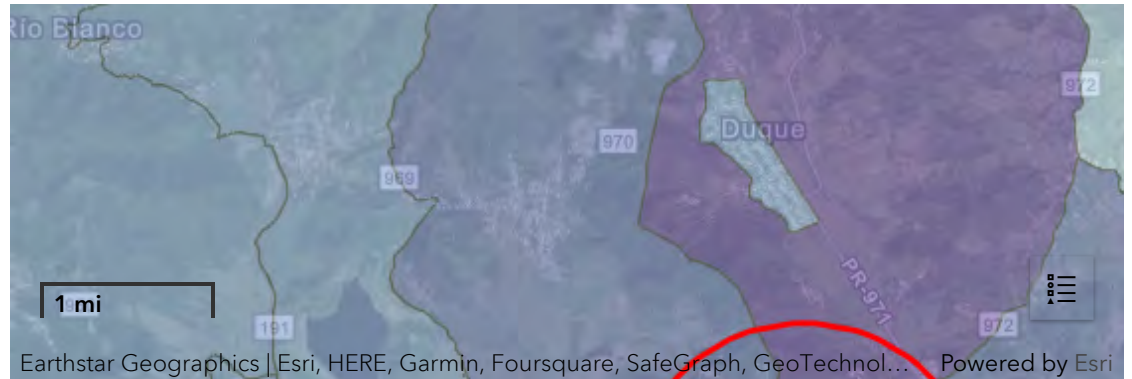
☐ Facility Census Block Group

Census Block Group ID: 721031704001	US (Percentile)	
Supplemental Indexes	Facility Census Block Group	1-mile Max
Count of Indexes At or Above 80th Percentile	8	8
Particulate Matter 2.5	--	--
Ozone	--	--
Diesel Particulate Matter	0	--
Air Toxics Cancer Risk	 92	 92
Air Toxics Respiratory Hazard Index	66	66
Traffic Proximity	 98	 98
Lead Paint	 99	 99
Risk Management Plan (RMP) Facility Proximity	 99	 99
Hazardous Waste Proximity	 81	 81
Superfund Proximity	 98	 98
Underground Storage Tanks (UST)	 99	 99
Wastewater Discharge	 98	 98

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Demographic Profile of Surrounding Area (1 mile)

This section provides demographic information regarding the community surrounding the facility. ECHO compliance data alone are not sufficient to determine whether violations at a particular facility had negative impacts on public health or the environment. Statistics are based upon the 2010 U.S. Census and 2016 - 2020 American Community Survey (ACS) 5-year Summary and are accurate to the extent that the facility latitude and longitude listed below are correct. EPA's spatial processing methodology considers the overlap between the selected radii and the census blocks (for U.S. Census demographics) and census block groups (for ACS demographics) in determining the demographics surrounding the facility. For more detail about this methodology, see the [DFR Data Dictionary](#).

General Statistics (U.S. Census)	
Total Persons	7,937
Population Density	2,524/sq.mi.
Housing Units in Area	3,446

General Statistics (ACS (American Community Survey))	
Total Persons	5,035
Percent People of Color	100%
Households in Area	1,613
Households on Public Assistance	61
Persons With Low Income	4,116
Percent With Low Income	82%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.209592
Center Longitude	-65.738675
Land Area	100%
Water Area	0%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than \$15,000	537 (33.25%)

Age Breakdown (U.S. Census) - Persons (%)	
Children 5 years and younger	728 (9%)
Minors 17 years and younger	2,547 (32%)
Adults 18 years and older	5,390 (68%)
Seniors 65 years and older	815 (10%)

Race Breakdown (U.S. Census) - Persons (%)	
White	5,493 (69%)
African-American	1,463 (18%)
Hispanic-Origin	7,895 (99%)
Asian/Pacific Islander	11 (0%)
American Indian	45 (1%)
Other/Multiracial	926 (12%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	274 (8.8%)
9th through 12th Grade	427 (13.71%)
High School Diploma	768 (24.66%)
Some College/2-year	225 (7.23%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	1,132 (36.35%)

Income Breakdown (ACS (American Community Survey)) - Households (%)	
\$15,000 - \$25,000	395 (24.46%)
\$25,000 - \$50,000	504 (31.21%)
\$50,000 - \$75,000	117 (7.24%)
Greater than \$75,000	62 (3.84%)

LAST UPDATED ON SEPTEMBER 21, 2022

[DATA REFRESH INFORMATION](#)

ATTACHMENT H

Endangered Species

Endangered Species Act of 1973, particularly section 7; 50 CFR Part 402



Transmittal Letter

March 6, 2024

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



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

DAMARIS ROMAN RUIZ
Reviewer

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

ROBERT TAWES
Acting Caribbean ES Field Supervisor

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

**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

CDBG-DR FUNDS

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 Rehabilitación y Mejoras a la plaza del Mercado (PR-CRP-001010), consists of the rehabilitation of an existing market structure. The rehabilitation consists of the construction of a new entrance and elevator shaft on the Southeast entrance to provide wheelchair access to the second level, along with the renovation of the Southwest entrance, the removal and replacement of doors, windows, and decorative metal panes, the reconfiguration of bathrooms to comply with the ADA, and the construction of a new meter bank that will allow individual spaces to have separate electric meters located at Calle Goyco, Naguabo, PR 00718 at the coordinates: 18.21292823,-65.73647730, complies with:

Check	Project Criteria
<input type="checkbox"/>	1. Street resurfacing.
<input type="checkbox"/>	2. Construction of gutters and sidewalks along existing roads.
<input type="checkbox"/>	3. Reconstruction or emergency repairs of existing buildings, facilities and homes.
<input checked="" type="checkbox"/>	4. Rehabilitation of existing occupied single-family homes, and buildings; provided that equipment storage or staging areas are not located on vacant property harboring a wetland and/or forested vegetation and that the lighting associated to the new facilities is not visible directly or indirectly from a beach.
<input type="checkbox"/>	5. Demolition of dilapidated single-family homes or buildings; provided that the demolition debris is disposed in certified receiving facilities; equipment storage or staging areas are not located on vacant property harboring a wetland and/or forested vegetation.
<input type="checkbox"/>	6. Rebuilding of demolished single-family homes or buildings, provided

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



Ángel G. López-Guzmán
Deputy Director

Permits and Environmental Compliance Division

Office of Disaster Recovery

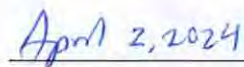
Address: P.O. Box 21365 San Juan, PR 00928

Telephone and Ext: 787-274-2527 ext. 4320

Email: environmentcdbg@vivienda.pr.gov

[PR CRP 001010 Rehabilitación y Mejoras a la Plaza del Mercado](#)

[Lat: 18.21292823, Lon: -65.73647730](#)



Date

LIST OF ATTACHMENTS

ATTACHMENT 1:	PROJECT DESCRIPTION
ATTACHMENT 2:	LOCATION MAP
ATTACHMENT 3:	SITE PHOTOS
ATTACHMENT 4:	CRITICAL HABITAT MAP

USFWS Self-Certification
PR-CRP-001010

PR-CRP-001010

PROJECT DESCRIPTION

The municipality of Naguabo owns the Public Market structure which was built in 1970 during the administration of Mayor Serafin Melendez. The structure is located within the urban center of the municipality of Naguabo on the corner of Goyco Street and Garzot Street. The existing structure is two levels built out of reinforced concrete and has a parking lot in the North side and is used as a market. In the first level there are 30 spaces for commercial use, two bathrooms, janitor's closet, and a courtyard roofed with a steel structure. In the second there are an additional seven spaces for commercial use, 3 bathrooms, an open roof top terrace, a multiuse room. The existing structure has 3 staircases.

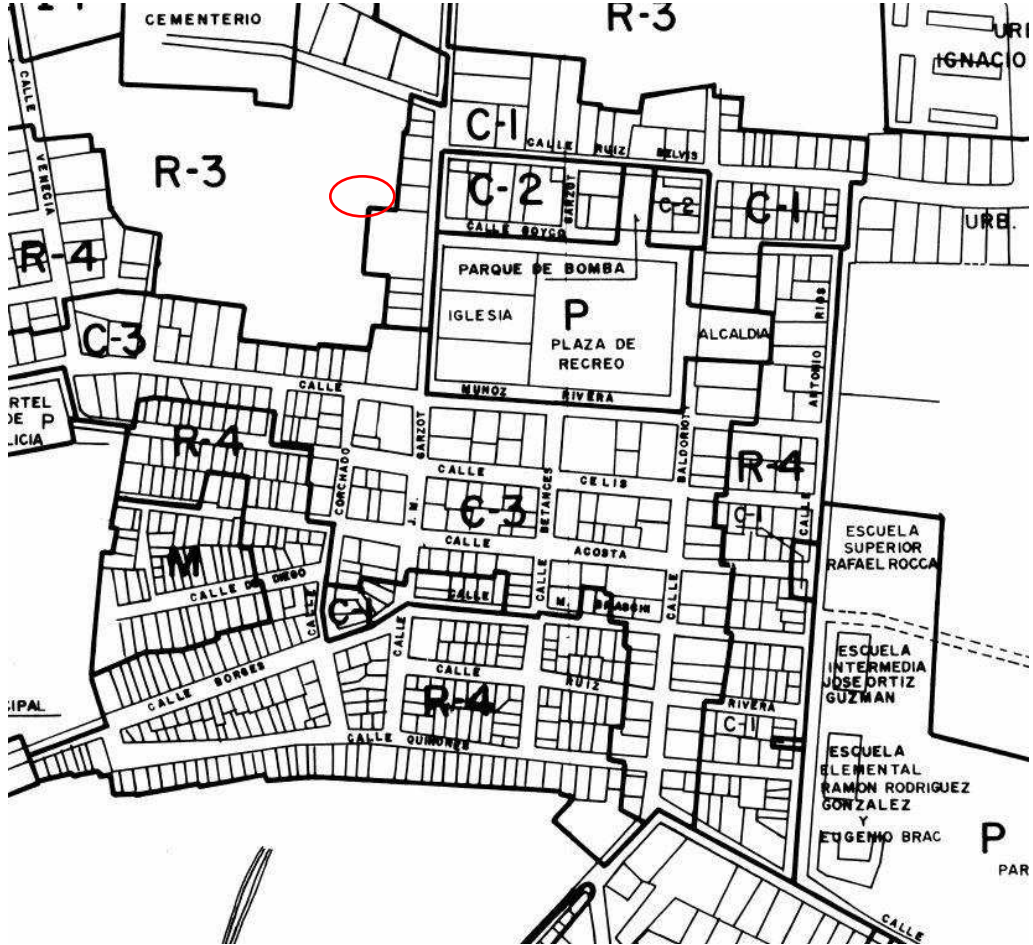
The scope of work consists of the construction of a new entrance and elevator shaft on the Southeast entrance to provide wheelchair access to the second level along with the renovation of the Southwest entrance, the removal and replacement of doors, windows and decorative metal panes., the reconfiguration of bathrooms to comply with ADA and the construction of a new meter bank which will allow individual spaces to have individual electric meter. The new entrances and elevator shall be constructed of steel reinforced concrete with spread footings. The bathroom wall and floor tiles are to be removed and replaced. Bathroom equipment and accessories are to be replaced. In the interior courtyard, the metal roof shall be replaced, and the existing columns will be clad with fireproof material. The concrete slab in the loading area is to be repaired; parking lines are to be repainted. In the second level, handrails shall be replaced, and a new handrail shall be installed in stairs to the roof top open terrace. A new plycem board ceiling will be constructed to conceal the new electrical distribution in the corridors of the first and second level. All existing light fixtures are to be removed and replaced with new lights in the corridor areas. The existing hung ceilings in the commercial spaces shall be removed and replaced along with the light fixtures. New emergency exit lights and emergency lighting will be installed.

Perimeter fences will be replaced in the North and East side. The existing chain link fence in the South and East side will be eliminated. Sidewalks in the Southeast entrances shall be partially demolished to accommodate a low slope entrance to the public market.

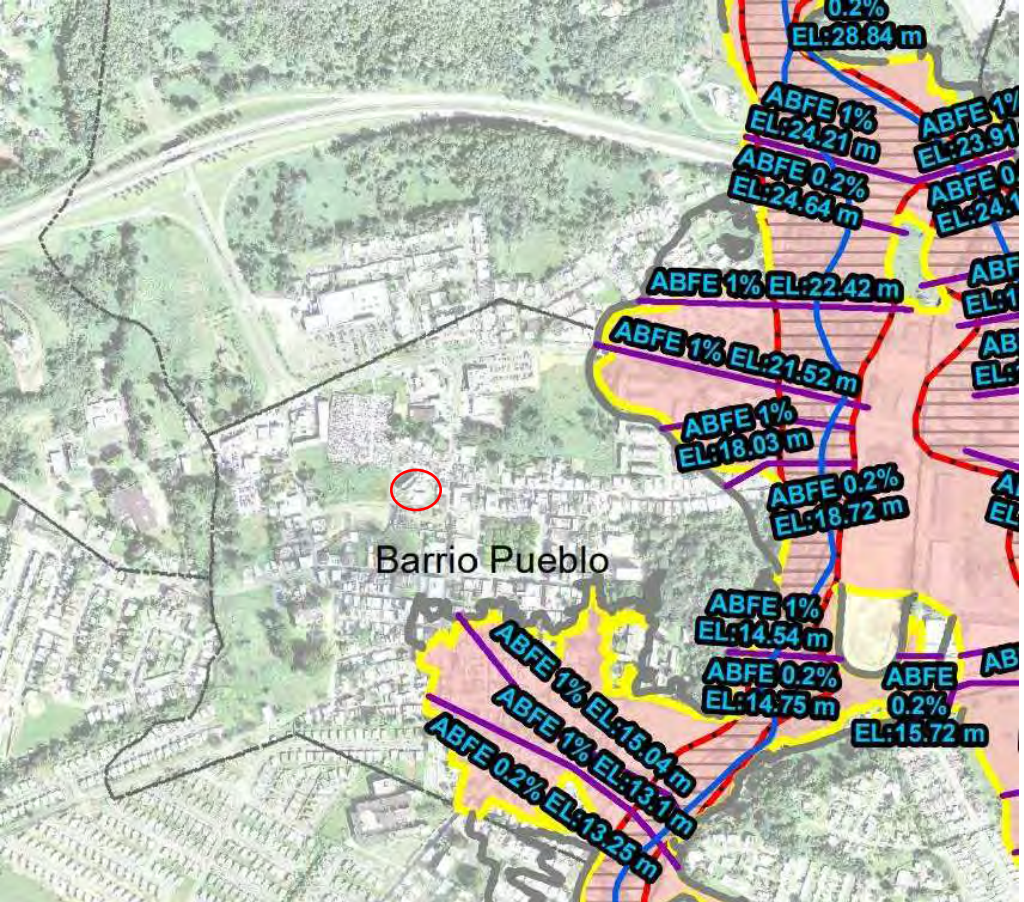
Ground disturbances shall be limited to the entrances proposed in the Southeast and Southwest of the parcel. An over excavation of eight feet is required for the construction of the new elevator shaft due to unstable soil documented by the in the soil test performed. The unstable soil under the proposed structure shall be removed and replaced with A24 engineered soil. The existing building footprint is 14,988 square feet. With the addition of the new entrance and elevator, the building footprint will increase 514 square feet (3%). There are no solar panels, green houses, wells, electrical generators, water cisterns or other structures proposed in the scope of work.



LOCATION PLAN
X: 273926.9318 Y: 242010.4285



MAPA DE ZONIFICACION DE NAGUABO
HOJA NUMERO 4
VIGENCIA: 8 DE AGOSTO DE 2003



FLOOD MAP PANEL
ZONE X
72000C1280J
VIGENCIA: 13 DE ABRIL DE 2018

MEJORAS A PLAZA DEL MERCADO

ATTACHMENT 3 - SITE PHOTOS

Photograph 1



Photograph 2



Photograph 3



Photograph 4



Photograph 5



Photograph 6



Photograph 7



Photograph 8



Photograph 9



Photograph 10



Lat: 18.21292823, Lon: -65.73647730

Critical Habitat for Threatened & Endangered Species [USFWS] USFWS self cert consultation



5/29/2023



PR-CRP-001011 Lat: 18.21237734, Lon: -65.73643706

World Imagery

High Resolution 60cm Imagery

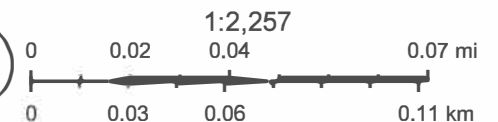
Citations

Low Resolution 15m Imagery

High Resolution 30cm Imagery

60cm Resolution Metadata

<https://fws.maps.arcgis.com/apps/mapviewer/index.html?webmap=9d8de5e265ad4fe09893cf75b8dbfb77>



Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community, Esri Community Maps Contributors, Esri, HERE, Garmin, Foursquare,



U.S. Fish and Wildlife Service

National Wetlands Inventory

Attachment 4: NWI Wetland Map

PR CRP 001010 - Rehabilitación y Mejoras a la Plaza del Mercado

Location: 18.21292823, -65.73647730



April 4, 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.

● PR-CRP-001010

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

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



**Estado Libre Asociado de Puerto Rico
Municipio Autónomo de Naguabo**



April 17, 2023

Mr. Edwin Muñiz
Field Supervisor
U.S. Fish & Wildlife Service
Boquerón Field Office
PO Box 491
Boquerón, PR 00622



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: 2023.04.25 10:22:08 -04'00'

EDWIN MUNIZ Digitally signed by EDWIN MUNIZ
Date: 2023.04.25 10:45:18 -04'00'
Caribbean ES Field Supervisor

RE: Self-Certification under Blanket Clearance Letter for federally sponsored projects, Housing and Urban Development, for Rehabilitación y mejoras en la Plaza del Mercado PR-CRP-1010 Naguabo, PR

Dear Mr. Muñiz:

We submit for your review the enclosed Self-Certification to fulfill requirements related to the Blanket Clearance Letter dated January 14, 2013. This information is submitted to comply with Section 7 of the Endangered Species Act (ESA). The project is a CDBG-DR funded project; allocated by HUD to PRDOH as the grantee of the funds and the municipality of Naguabo as the subrecipient of the funds.

The scope of work consists of the construction of a new entrance and elevator shaft on the Southeast entrance to provide wheelchair access to the second level along with the renovation of the Southwest entrance, the removal and replacement of doors, windows, and decorative metal panes., the reconfiguration of bathrooms to comply with ADA and the construction of a new meter bank which will allow individual spaces to have individual electric meter. The bathroom wall and floor tiles are to be removed and replaced. Ground disturbances shall be limited to the entrances proposed in the Southeast and Southwest of the parcel. The existing building footprint is 14,988 square feet. With the addition of the new entrance and elevator, the building footprint will increase 514 square feet (3%).

The project activity is limited to a previously developed urban property and thus the proposed action has no effect on any natural habitats or federally protected species. Please refer to enclosed maps and project description for details.

Attached are photos of existing site conditions, project description and layout of proposed activities.

Should you require any additional information, please contact Mrs. Brenda Casanova Ortiz at bcasanova@munnaguabo.gov.pr or at the following phone number 787-874-3040.

Cordially,

Hon. Miraidaliz Rosario Pagán
Mayor





**Estado Libre Asociado de Puerto Rico
Municipio Autónomo de Naguabo**



**Self-Certification
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 Municipality of Naguabo Puerto Rico, certifies that the following project: Rehabilitación y mejoras en la Plaza del Mercado PR-CRP-1010 funded by CDBG-DR allocated by HUD to PRDOH and located at Naguabo PR complies with:

Check	Project Criteria
	1. Street resurfacing.
	2. Construction of gutters and sidewalks along exiting roads.
	3. Reconstruction or emergency repairs of existing buildings, facilities and homes
x	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.
x	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.

Hon. Miraizaliz Rosario Pagán
Mayor

Date



**Estado Libre Asociado de Puerto Rico
Municipio Autónomo de Naguabo**



Description of the Proposed Project:

The municipality of Naguabo owns the Public Market structure which was built in 1970 during the administration of Mayor Serafin Melendez. The structure is located within the urban center of the municipality of Naguabo on the corner of Goyco Street and Garzot Street. The existing structure is two levels built out of reinforced concrete and has a parking lot in the North side and is used as a market. In the first level there are 30 spaces for commercial use, two bathrooms, janitor's closet, and a courtyard roofed with a steel structure. In the second there are an additional seven spaces for commercial use, 3 bathrooms, an open roof top terrace, a multiuse room. The existing structure has 3 staircases.

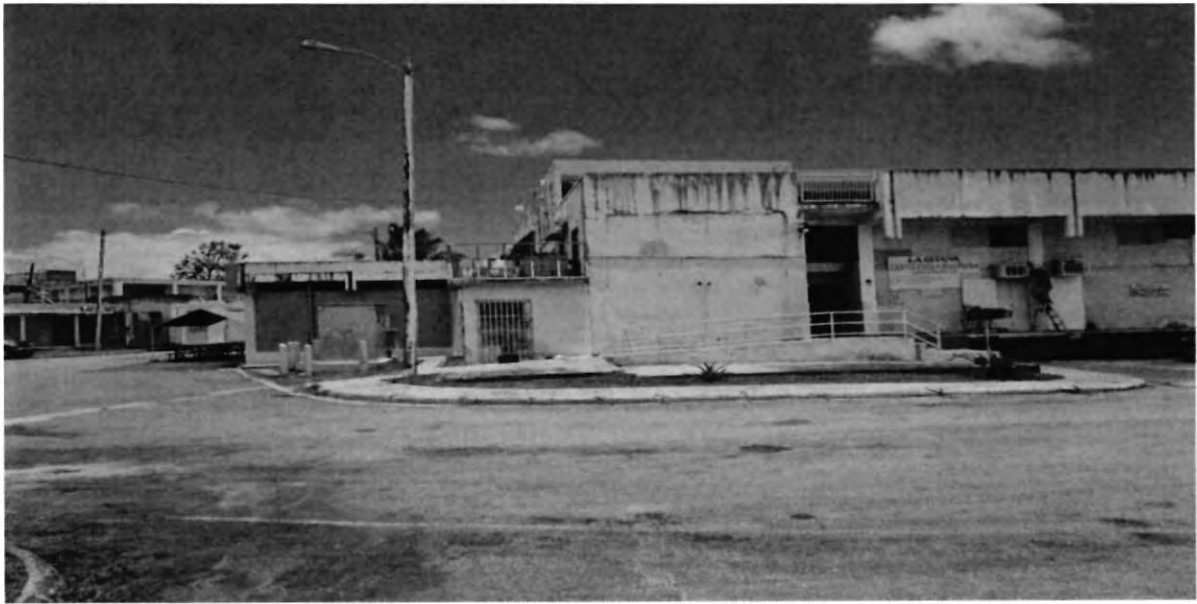
The scope of work consists of the construction of a new entrance and elevator shaft on the Southeast entrance to provide wheelchair access to the second level along with the renovation of the Southwest entrance, the removal and replacement of doors, windows, and decorative metal panes, the reconfiguration of bathrooms to comply with ADA and the construction of a new meter bank which will allow individual spaces to have individual electric meter. The new entrances and elevator shall be constructed of steel reinforced concrete with spread footings. The bathroom wall and floor tiles are to be removed and replaced. Bathroom equipment and accessories are to be replaced. In the interior courtyard, the metal roof shall be replaced, and the existing columns will be clad with fireproof material. The concrete slab in the loading area is to be repaired; parking lines are to be repainted. In the second level, handrails shall be replaced, and a new handrail shall be installed in stairs to the roof top open terrace. A new plycem board ceiling will be constructed to conceal the new electrical distribution in the corridors of the first and second level. All existing light fixtures are to be removed and replaced with new lights in the corridor areas. The existing hung ceilings in the commercial spaces shall be removed and replaced along with the light fixtures. New emergency exit lights and emergency lighting will be installed.

Perimeter fences will be replaced in the North and East side. The existing chain link fence in the South and East side will be eliminated. Sidewalks in the Southeast entrances shall be partially demolished to accommodate a low slope entrance to the public market.

Ground disturbances shall be limited to the entrances proposed in the Southeast and Southwest of the parcel. An over excavation of eight feet is required for the construction of the new elevator shaft due to unstable soil documented by the in the soil test performed. The unstable soil under the proposed structure shall be removed and replaced with A24 engineered soil. The existing building footprint is 14,988 square feet. With the addition of the new entrance and elevator, the building footprint will increase 514 square feet (3%). There are no solar panels, green houses, wells, electrical generators, water cisterns or other structures proposed in the scope of work.

Photos:









ATTACHMENT I

Explosive and Flammable Hazards

24 CFR Part 51 Subpart C

Field Visit Checklist & Site Evaluation							
Project Name:	Case ID: PR-CRP-001010/ Rehabilitación y Mejoras en la Plaza del Mercado			Latitude:	18.21292823		
First Name:	ELI	Last Name:	MARTINEZ	Longitude:	-65.73643706		
Street Address:	6777+4C6, Calle Goyco, Naguabo, PR 00718			Apt/Suite:	N/A		
City:	NAGUABO			State:	PR	Zip:	00718
Date of Visit:	JULY 21,2022		Field Visit Conducted By:	ELI MARTINEZ			
EXISTING ENVIRONMENTAL CONDITIONS ON & AROUND SITE							
Levee/Flood Control Structures (Levees, T-walls, pumping stations, etc.)							
	Site Specific			Area			
Observations	N/A						
Toxic Chemicals & Radioactive Materials							
Petroleum or Chemical Storage							
	Site Specific			Area			
Is there any evidence or indication of an underground storage tank (UST) may be located on site?	NO						
If yes, are they in use?	N/A						
Are there any out-of-service underground fuel tanks?	NO						
Is there any evidence that any AST on the property are leaking?	NO						
Polychlorinated Biphenyls (PCB):							
	Site Specific			Area			
Is there any evidence or indication of leaking electrical equipment (transformer - ground or pole mounted, capacitor, or hydraulic equipment) present on site?	NO						
Hazardous Operations							
	Site Specific			Area			
Is there any evidence of manufacturing operations utilizing or producing hazardous substances at or in close proximity to the site?	NO						
Is there any evidence or indication that past operations located on or in close proximity to the property used hazardous substances or radiological materials that may have been released into the environment?	NO						
Notes/Observations:							
<p>The project will not result in an increased number of people being exposed to hazardous operations by increasing residential densities, converting the type of use of a building to habitation, or making a vacant building habitable. The project does not involve explosive or flammable materials or operations. The project is in compliance with explosive and flammable hazard requirements.</p>							

Photograph 1



Photograph 2



Photograph 3



Photograph 4



Photograph 5



Photograph 6



Photograph 7



Photograph 8



Photograph 9



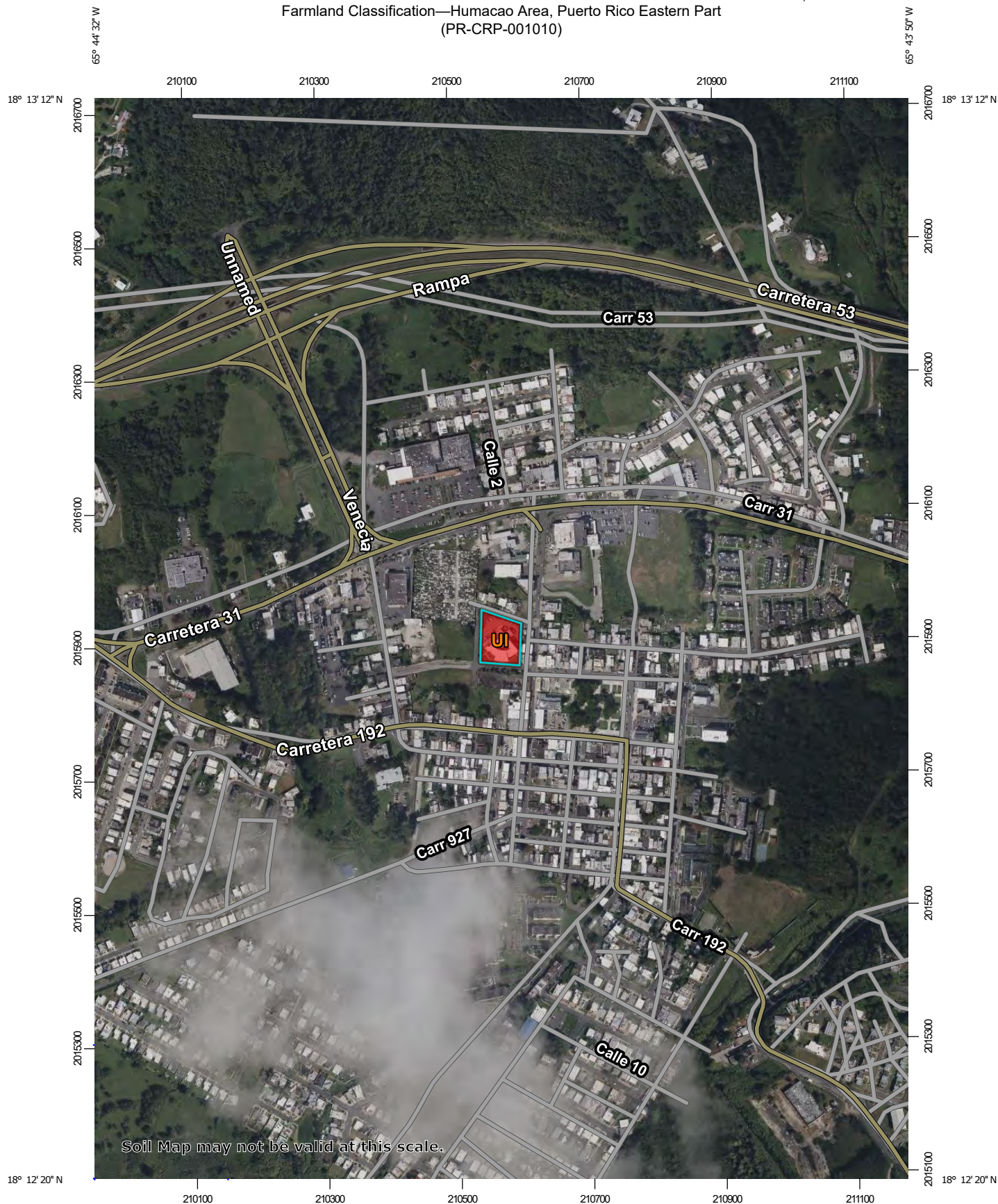
Photograph 10



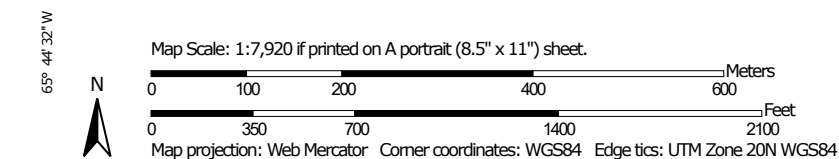
ATTACHMENT J

Farmlands Protection

Farmland Protection Policy Act of 1981, particularly sections 1504(b) and 1541; 7 CFR Part 658



Soil Map may not be valid at this scale.



Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey



<https://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx>


4/15/2023

Page 1 of 6

**Farmland Classification—Humacao Area, Puerto Rico Eastern Part
(PR-CRP-001010)**









MAP LEGEND








Area of Interest (AOI)






 Area of Interest (AOI)








Soils



Soil Rating Polygons

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









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

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

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

-  Farmland of unique importance
-  Not rated or not available

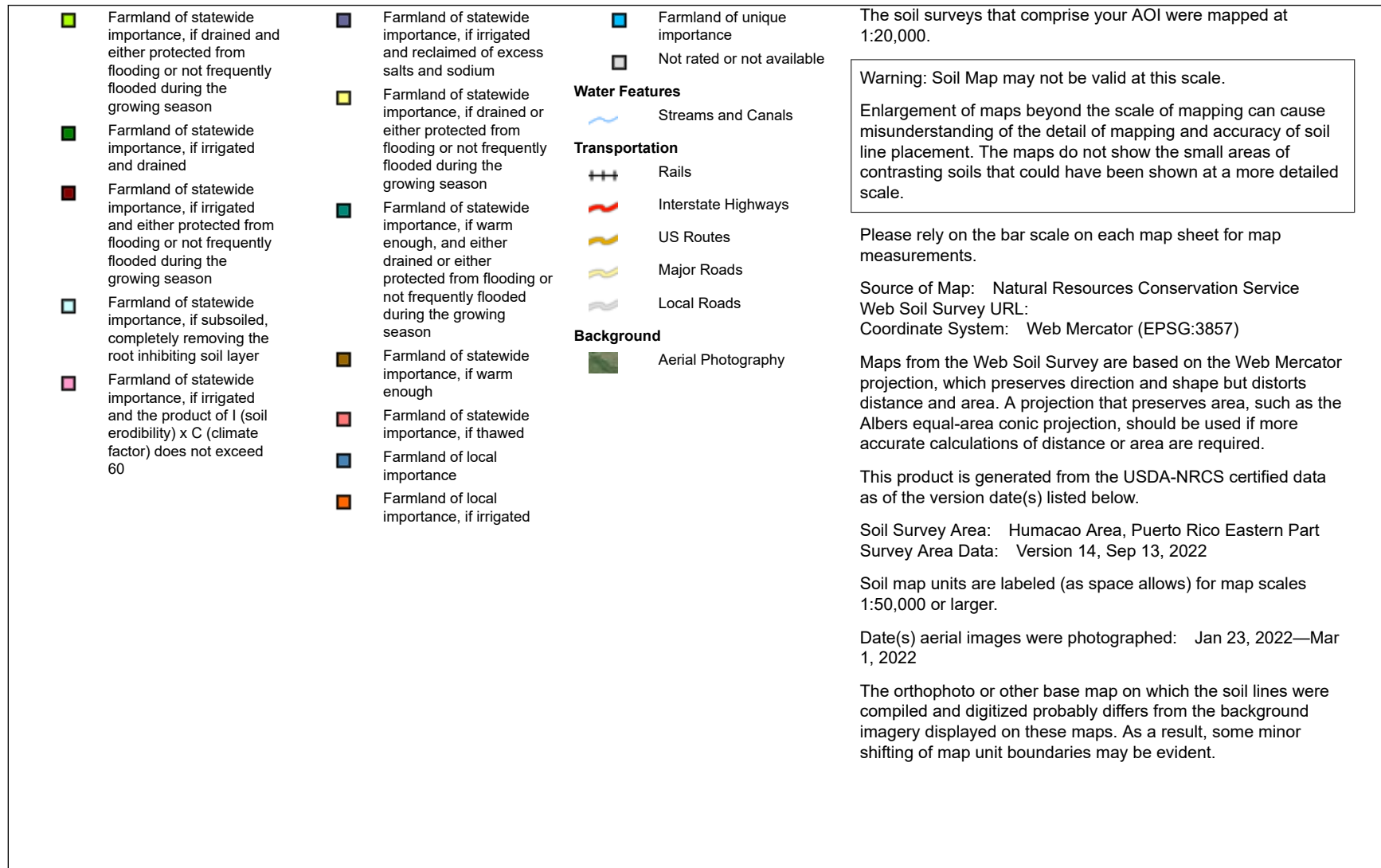
Soil Rating Lines

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

Farmland Classification—Humacao Area, Puerto Rico Eastern Part
(PR-CRP-001010)

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

**Farmland Classification—Humacao Area, Puerto Rico Eastern Part
(PR-CRP-001010)**



Farmland Classification

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
UI	Urban land	Not prime farmland	1.1	100.0%
Totals for Area of Interest			1.1	100.0%

Description

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

Rating Options

Aggregation Method: No Aggregation Necessary

Aggregation is the process by which a set of component attribute values is reduced to a single value that represents the map unit as a whole.

A map unit is typically composed of one or more "components". A component is either some type of soil or some nonsoil entity, e.g., rock outcrop. For the attribute being aggregated, the first step of the aggregation process is to derive one attribute value for each of a map unit's components. From this set of component attributes, the next step of the aggregation process derives a single value that represents the map unit as a whole. Once a single value for each map unit is derived, a thematic map for soil map units can be rendered. Aggregation must be done because, on any soil map, map units are delineated but components are not.

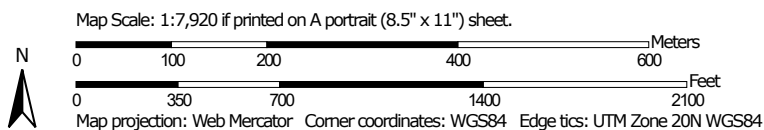
For each of a map unit's components, a corresponding percent composition is recorded. A percent composition of 60 indicates that the corresponding component typically makes up approximately 60% of the map unit. Percent composition is a critical factor in some, but not all, aggregation methods.

The majority of soil attributes are associated with a component of a map unit, and such an attribute has to be aggregated to the map unit level before a thematic map can be rendered. Map units, however, also have their own attributes. An attribute of a map unit does not have to be aggregated in order to render a corresponding thematic map. Therefore, the "aggregation method" for any attribute of a map unit is referred to as "No Aggregation Necessary".

Tie-break Rule: Lower

The tie-break rule indicates which value should be selected from a set of multiple candidate values, or which value should be selected in the event of a percent composition tie.


Soil Map—Humacao Area, Puerto Rico Eastern Part
(PR-CRP-001010)



Soil Map—Humacao Area, Puerto Rico Eastern Part
(PR-CRP-001010)

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: Humacao Area, Puerto Rico Eastern Part

Survey Area Data: Version 14, Sep 13, 2022

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.

Soil Map—Humacao Area, Puerto Rico Eastern Part

Map Unit Legend

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

ATTACHMENT K

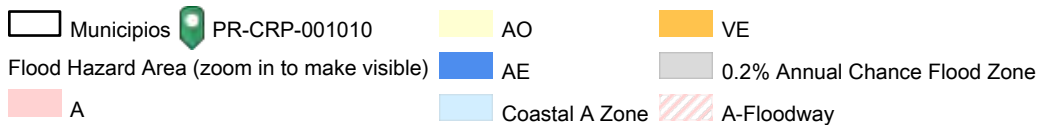
Floodplain Management

Executive Order 11988, particularly section 2(a); 24 CFR Part 55

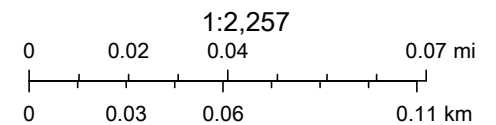
Floodplain Management



4/15/2023, 10:35:37 PM

<https://fema.maps.arcgis.com/apps/webappviewer/index.html?id=6d961e268f6f41ffa1f1e13e48dd8b1d>

AE-Floodway



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

PRJRO GIS Unit

ATTACHMENT L

Historic Preservation

National Historic Preservation Act of 1966, particularly sections 106 and 110; 36 CFR Part 800



GOVERNMENT OF PUERTO RICO
STATE HISTORIC PRESERVATION OFFICE

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

Wednesday, October 4, 2023

Lauren Bair Poche

Historic Preservation Senior Manager
HORNE Puerto Rico
10000 Perkins Rowe, Suite 610 Bldg C
Baton Rouge, LA 70810

SHPO: 09-20-23-11 PR-CRP-001010 REHABILITACIÓN Y MEJORAS A LA PLAZA DEL
MERCADO, 6777 + 4C6, CALLE GOYCO, NAGUABO, PUERTO RICO


Dear Ms. Poche,

The SHPO 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*. The State Historic Preservation Officer (SHPO) is to advise and assist federal agencies and other responsible entities when identifying historic properties, assessing effects upon them, and considering alternatives to avoid or reduce the project's effects.

Our records support your finding that the proposed undertaking will have **no adverse effect** upon historic properties.

If you have any questions or comments regarding this matter or require our further assistance, do not hesitate to contact our Office.

Sincerely,


Carlos A. Rubio-Cancela
State Historic Preservation Officer

CARC/GMO/SG





October 20, 2022

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

Re: Authorization to Submit Documents

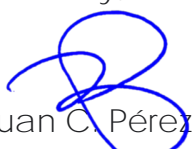
Dear Arch. Rubio Cancela:

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

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

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

Cordially,


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

September 20, 2023

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-001010: Rehabilitación y Mejoras a la Plaza del Mercado Project, Naguabo, Puerto Rico – *No Adverse Effect*

Dear Architect Rubio Cancela,

In accordance with Section 106 of the National Historic Preservation Act and its implementing regulations, 36 CFR Part 800, HORNE is providing information for your review and requesting your concurrence regarding the above-referenced project on behalf of the Puerto Rico Department of Housing (PRDOH) and the City Revitalization Program. 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 (Housing) aims to lead a comprehensive and transparent recovery for the benefit of Puerto Rico residents.

On behalf of PRDOH and the subrecipient, the Municipality of Naguabo, HORNE is submitting documentation for the proposed Rehabilitación y Mejoras a la Plaza del Mercado Project. The project area is adjacent to the Naguabo Traditional Urban Center which is eligible for listing in the National Register of Historic Places. The proposed project consists of improvements to the circa 1970 Plaza del Mercado building. The full scope of the project is described in detail within the submitted documentation, which includes mapping, photographs, and 60% design plans.

Based on the provided documentation, the Program requests a concurrence with a determination that no adverse effect to historic properties is appropriate for this undertaking.

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

Kindest regards,



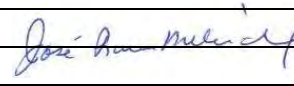

Lauren Bair Poche. M.A.

Architectural Historian, Historic Preservation Senior Manager

Attachments

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM CITY REVITALIZATION PROGRAM (CITY-REV) Section 106 NHPA Effect Determination		 GOVERNMENT OF PUERTO RICO DEPARTMENT OF HOUSING
Subrecipient: Municipality of Naguabo		
Project Name: Rehabilitación y Mejoras a la Plaza del Mercado	Project ID: PR-CRP-001010	

Project Location: 6777+4C6, Calle Goyco, Naguabo, PR 00718	
Project Coordinates: 18.21292823, Lon: -65.73647730	
TPID (Número de Catastro): 256-013-001-09	
Type of Undertaking: <input checked="" type="checkbox"/> Substantial Repair <input type="checkbox"/> New Construction	
Construction Date (AH est.): ca. 1967-1972	Property Size (acres): 1.030689 acreage

SOI-Qualified Archaeologist: José Rivera Meléndez	
Date Reviewed: September 20, 2023	
SOI-Qualified Architect: Elí M. Martínez Beléndez	
Date Reviewed: September 20, 2023	

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

Project Description (Undertaking)

The Municipality of Naguabo owns the marketplace structure built between 1967 and 1972 (Refer to Figures 10 and 11) during the administration of Mayor Serafin Meléndez. The structure is located within the urban center bordering on the north with Luis Sánchez Rivera Street, on the south with Goyco street, on the east with four small structures used for commercial and residential and on the west with Luis Sánchez Rivera Street. The project is located adjacent but not within the boundaries of the National Register of Historic Places eligible Naguabo Traditional Urban Center, as defined by the Puerto Rico State Historic Preservation Office (SHPO).

The structure is two levels built out of reinforced concrete and has a parking lot on the north side and is used as a local marketplace. The first level has thirty (30) spaces for commercial use, two (2) bathrooms, janitor's closet, and a courtyard roofed with a steel structure. In the second level there are seven (7) additional commercial spaces, three (3) bathrooms, an open roof-top terrace, and a multi-use space. The existing structure has three (3) staircases.

The scope of work consists of the construction of a new entrance and elevator shaft on the southeast entrance to provide wheelchair access to the second level along with the renovation of the southwest

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM CITY REVITALIZATION PROGRAM (CITY-REV) Section 106 NHPA Effect Determination	 GOVERNMENT OF PUERTO RICO DEPARTMENT OF HOUSING
Subrecipient: Municipality of Naguabo	
Project Name: Rehabilitación y Mejoras a la Plaza del Mercado	Project ID: PR-CRP-001010

entrance, the removal and replacement of doors, windows and decorative metal panes, the reconfiguration of bathrooms to comply with the American Disability Act (ADA) requirements and the construction of a new meter bank which will allow individual spaces to have separate electric meters. The new entrances and elevator shall be constructed of steel reinforced concrete with spread footings. The bathroom wall and floor tiles are to be removed and replaced. Bathroom equipment and accessories are to be replaced. The metal roof shall be replaced in the interior courtyard and the existing columns will be covered with fire-proof material. The concrete slab in the loading area is to be repaired; parking lines are to be repainted. In the second level, handrails shall be replaced, and a new handrail shall be installed in stairs to the roof-top open terrace. A new cement board ceiling will be constructed to conceal the new electrical distribution in the first and second-level corridors. All existing light fixtures will be removed and replaced with new lights in the corridor areas. The existing hung ceilings in the commercial spaces shall be removed and replaced along with the light fixtures. New emergency exit lights and emergency lighting will be installed.


The project will replace the perimeter fences in the North and East sides. Also, it will eliminate the existing chain link fence in the south and east sides. Sidewalks in the Southeast entrance shall be partially demolished to accommodate a lowslope entrance to the marketplace.

The project aims to limit ground disturbances to the entrances proposed in the southeast and southwest of the parcel. An excavation of eight (8) feet below the proposed footings is required to construct the new elevator shaft due to unstable soil documented in the soil test. The unstable soil under the proposed structure shall be removed and replaced with A-24 engineered soil. The existing building footprint is 14,988 square feet. The new entrances and elevator will increase the the building footprint by 514 square feet (3%).

Area of Potential Effects

Based on the definition of Area of Potential Effects (APE) and the nature and scope of the Undertaking, the Program has determined that the direct APE for this project is 1.030689 acreage, and the visual APE is the view shed of the proposed project.

Refer to Figure 1 for the aerial map illustrating the area of potential effects. The project is adjacent but not within the boundaries of the National Register of Historic Places in the Naguabo Traditional

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Urban Center as defined by SHPO. Refer to Figure 2 for the aerial map illustrating the Naguabo Traditional Urban Center's limits of in relation to Project APE.

The boundaries of the APE are as follows: on the north and west Luis Sánchez Rivera Street, on the south Goyco Street and on the east, the rear of four lots located on Juan R. Garzot Street, within the traditional urban center of Naguabo.

The description of the APE boundary is as follows: On the north side of the boundary of the APE there is a chain link fence approximately 208-feet long. It has a pedestrian access entrance to the parking lot that serves the marketplace. On the east side, the APE is bordered by four structures that are within the traditional urban center of Naguabo. These structures are accessed through Garzot street and their back yards are visible from the APE. This boundary is separated by a chain link fence approximately 204-feet long. On the west side, a chain link fence approximately 253-feet runs along the boundary of the APE. The vehicular entrance to the marketplace's parking lot is located on this side. On the south side, the boundary of the APE there are two pedestrian entrances to the marketplace. The boundaries are separated by a chain link fence with an approximate length of 210 feet. Refer to the Figure 9 on page 56 for pictures of the APE.s borders.

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 of the Marketplace is 0.03 miles north of the Nuestra Señora del Rosario catholic church (#1 Figure 1) which is in the National Register of Historic Places (NRHP), is 0.05 miles west of the NRHP eligible public square (#2 Figure 1), and is 0.07 miles north of the of a financial local institution (Banco Popular; #7 Figure 1) which is also listed as eligible to be included in the NRHP.

The methodology used to produce this report began by identifying all archeological studies performed around the APE. The following is a list of previous archeological research reviewed. The studies and the relation to the APE are referenced in the aerial map provided in Figure 7.

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Author	Title	Year	SHPO/IPRC ID	Results	Distance From APE
1. Maria A. Cashion Lugo	Archeological Evaluation Phase 1A for Ralph's Food Warehouse Project, PR Road 31, KM 3.6, Barrio El Duque, Naguabo, Puerto Rico	4/2002	NG-02-06-02	Negative	.12 miles NW of the APE
2. Juan González Colón	Archeological Evaluation [Phase IA], Naguabo High School Project, Naguabo, Puerto Rico	1/1994	NG-94-02-07	Negative	.22 miles SE of the APE
3. Juan González Colón	Archeological Evaluation (Phases IA-IB), Naguabo Central Housing Apartments, Municipality of Naguabo	8/1992	SHPO 08-13-92-01	Negative	.03 miles W of the APE
4. Iván F. Méndez Bonilla	Evaluation of Cultural Resources Phase IA, Project: <i>El Hogar Adventista</i> , Antonio Rios St. #6, Barrio Pueblo, Naguabo, PR	1/2008	NG-08-11-01	Negative	.14 miles W of the APE
5. Ethel V. Schlafer Román	Archeological Evaluation Phase I, Remodeling of the Town Plaza, Naguabo, Puerto Rico	10/1998	NG-98-04-NG-98-04-04 SHPO 04-14-99-11	Positive	.06 miles W of the APE

The table above is an inventory consisting of five (5) archaeological studies conducted within the 0.25-mile radius from the APE. The archaeological studies were developed for different purposes in the span of over 20 years (1988 to 2008). The intention was to identify sites of archaeological value. Figure 7 shows an aerial map with the locations of prior investigations conducted on properties surrounding the APE). The description of the studies and their respective conclusions (marked in bold) were as follows:

The following are the translated Revised Studies:

1. Cashion Lugo, María A. Archaeological Evaluation Phase 1A for Ralph's Food Warehouse Project, PR Road 31, KM 3.6, Barrio El Duque, Naguabo, Puerto Rico. April 30, 2002.

NG-02-06-02

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Location/Description:

"The project of reference is located in *Barrio El Duque*, which is located in the Municipality of Naguabo, Road PR-31, Km. 3.6. The Lambert coordinates are X=225,905 Y=42,615. The total area of the plot is 1.8023 or 7,083.7356 square meters. The construction and development of the property is summarized as follows:

- Supermarket (RFW) 38,552.00 square feet
- Profitable Space #2 3,515.00 square feet
- Profitable Space #1 8,325.00 square feet
- Promenade 5,335.00 square feet
- Loading and Unloading 982.50 square feet".

The project's objective is the development of a supermarket with a building made of steel and a parking area using the existing building.

Conclusions/ Recommendations:

"The area to be developed didn't show any evidence of pre-hispanic nor historical materials on the surface that could be considered to be originally in the property. The property has been refilled, particularly the area that will be used as a parking lot. The existing facilities will not be demolished but extended through constructing an annexed building in the front and back areas, made of steel beams."

"The results of the archive investigation and a field visit were negative regarding significant materials on the surface. "We can then conclude, based on the previously mentioned results, that the area to be developed for this project has been severely impacted by human action. That said, lots have been cleaned up and severely affected by heavy machinery, and the terrain remains composed of sterile sandy clay with fill." Based on this data, the author requests an endorsement of the proposed project.

2. González Colón, Juan. Archeological Evaluation [Phase IA], Naguabo High School Project, Naguabo, Puerto Rico. January 19, 1994.
NG-94-02-07

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Localization/Description:

"The lots to be intervened with during the project's construction are located in a section of the urban area of the Municipality of Naguabo." The plot boundaries to be intervened with are as follows: on the north, undeveloped lots; on the east, a residential development; on the south, a section of the *Buenos Aires* Street; and on the west, undeveloped lots.

It has an approximate area of approximately four (4) *cuerdas*, which is 3.88 acres; its topography is essentially flat with a slight slope on the south side. An intermittent creek with a course that goes from north to southeast is located on the western boundary; the creek receives rainwater and connects various stormwater channels from the urban area. A shallow overflow that originates in the central part of the lot discharges its intermittent flow into the adjoining creek."

Conclusions/Recommendations:


"The documentary investigation and the search or inspection carried out have demonstrated that no cultural resources exist in the property that will be developed." Based on the negative results obtained in Phase 1A, the author requests the endorsement of the project from the corresponding agencies.

3. González Colón, Juan. Puerto Rico State Historic Preservation Office. Archeological Evaluation (Phases IA-IB), Naguabo Central Housing Apartments, Municipality of Naguabo. August 12, 1992
SHPO 08-13-92-01.

Localization/Description

"The land plot in which the residential project will be developed is located on the northeastern side of the urban center of the Municipality of Naguabo." The boundaries of the lot are the following: on the north, the municipal cemetery, and private lots; on the east, a municipal street; on the south and the east, lots occupied by residences of several neighbors.

The project to be developed will occupy a stretch of land that measures 2.09 acres; the remaining plot of land of .97 acres will be used for future development. The plot has a total extension of 3.06 acres. The study of archeological evaluation was performed, including this plot in its entirety."

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The project contemplates the construction of five housing buildings with one (1), two (2), and three (3) bedrooms. Parking places, passive areas and all the necessary infrastructures will be built. The documentary investigation and the rigorous field testing have demonstrated a total absence of cultural resources in the plots to be developed."

The study's author requests the endorsement of the State Historic Preservation Office for this project.

4. Méndez Bonilla, Iván F. Evaluation of Cultural Resources Phase IA, Project: *El Hogar Adventista*, Antonio Ríos St. #6, *Barrio Pueblo*, Naguabo, Puerto Rico. January 21, 2008.
NG-08-11-01

Location/Description:

"The proposed construction project site *El Hogar Adventista* is in front of Antonio Ríos Street in the eastern part of the urban zone of the Municipality of Naguabo, Puerto Rico. The land to be built on has an area of 0.62 *cuerdas* (equal to 2,457.74 square meters). The property is an empty land, and there is no evidence of any previous construction. Adjacent to the land on the north is the Adventist Church; on the west are residential lots, and on the south and east are empty lots."

"The Lambert coordinates of the site are:

X=226,100 E

Y=42,200 N

"The proposed project purpose is the development of residential facilities with 37 social interest apartment units for the elderly and physically handicapped with scarce resources. This project will be a gated community with an entrance on Antonio Ríos Street. The main or vehicular entrance to the project will lead to the main parking area, which includes spaces for twenty-four (24) vehicles and will provide facilities for dropping off and picking up residents. The parking lot is designed in compliance with the requirements established in Topic 9, Section 74.00 of *Reglamento de Zonificación de Puerto Rico*, including two (2) accessible parking spaces designed to comply with local requirements and those established in the *Americans with Disabilities Act*. Pedestrian accesses will connect this area with the rest of the project facilities, and appropriate slopes will be designed to allow the circulation of people with mobility difficulties."

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"The project *El Hogar Adventista* contemplates designing and constructing a five-level structure. The first will include one apartment and the administrative and resident services facilities. The remaining four levels will house nine apartments per floor for thirty-seven (37) units. Two elevators and two stairs strategically placed in the building provide the facilities and services the project offers."

"Besides the administrative facilities, the project will have a social services facility, recreational areas, public restrooms, laundry, and storage areas for the residents. The project will include a potable water cistern with capacity for emergency services for the firefighters and an emergency electric generator with the capacity to supply basic needs for the project and facilities and personnel for maintaining the areas and the facilities."

Conclusions/Recommendations:

"After concluding the Phase 1A Archeological Evaluation for the proposed project "El Hogar Adventista, the investigation shows that there are **no archeological deposits in the site that should be protected from possible impact since there is no evidence of the site having been occupied in prehistoric or historic eras.**"

"The Phase 1A documentary evaluation did not provide information of a possible site with archeological or historical material and having undertaken the fieldwork without finding any evidence of materials associated with prehistoric or historical cultural groups, we do not request that the studies be extended to the proposed project site, for which we recommend your endorsement to this project."

5. Ethel V. Shlafer Román. Archeological Evaluation Phase I, Remodeling of the Town Plaza, Naguabo, Puerto Rico. October 5, 1998.

NG-98-04-04/SHPO 04-14-99-11

Localization/Description:

"The public square (*plaza*) is in the center of the town. It borders to the South with Muñoz Rivera Street, to the north with Goyco Street, to the east with Baldorioty de Castro Street, and to the west with the Nuestra Señora del Rosario Catholic Church."

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Conclusions/Recommendations:


“The results of the documentary investigation, as well as the fieldwork, reveal the presence of a dense cultural, historical deposit within the limits of the *plaza* and architectural elements associated with its original construction. Several hypotheses could explain the presence of said deposit, especially when the historical documentation indicates that the original *plaza* was located at a much lower level.”

1. For it to be a secondary deposit, used as a land refill in the *plaza*.
2. For it to be an in-situ deposit affected and removed by the intervention in the *plaza* during different periods.”

On the other hand, it is possible that in said deposit (or underneath it) can be found the original floor of the *plaza* and other related architectonic elements, such as the aqueduct system of the Santiago River towards the center of the *plaza*.”

“Based on the results of this investigation, it is recommended that a Phase II Archeological investigation be carried out to determine the potential of this deposit, its horizontal-vertical extension, and its archeological integrity. This phase should include, as a secondary objective, finding the original floor of the *plaza* and other structural elements. With the results of this Phase II study, it must be determined if the *plaza* is eligible to be in the National Register of Historic Places.”

As part of the research methodology, interviews were also conducted to gather information on the surrounding structures that were occupied at the time. In recent months, five people whose ages ranged from 55 to 80 years were interviewed. The persons interviewed were Mr. Felix de Leon, Mrs. Pilar Quiñones, Mr. Martin Sanchez, and his wife Carmen Luz Rivera. The interviewees were people who lived, worked, and frequented the study area. In addition, we visited the “La Casa del Historiador” which translates to the Historian’s House where we were able to interview Mr. Carlos Osvaldo Suarez from whom we obtained some of the historic images of the Traditional Urban Center of Naguabo included in this document. The questions covered topics such as: dates of construction, general information of the original structures, previous owners, and historical uses. Figure 4A is an inventory of various buildings around the APE. All comments and feedback provided by the people interviewed

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were included in the comments part of the table. Figure 8 shows the locations of the historic buildings listed in the municipality of Naguabo.

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 information by a Program contracted Historic Preservation Specialist **meeting the Secretary of Interior's Qualification Standards** (36 CFR Part 61) shows that the project area is adjacent to the traditional urban center of Naguabo and is *0.03 miles north of the Nuestra Señora del Rosario Catholic Church* (#1 Figure 1) included in the National Register of Historic Places. There are seven structures listed as eligible within the ¼ mile radius from the APE.

A search of the U.S. Department of the Interior's National Register of Historic Places was conducted for the architectural evaluation. Within the study area, it was found that Nuestra Señora del Rosario Catholic Church was included in the NLHR, and as the closest historic place to the APE. Other properties that are eligible to NRHS were also identified.


This observation coincides with the Archeological Evaluation Phase I, Remodeling of the Town Plaza, Naguabo, Puerto Rico. October 5, 1998. NG-98-04-04/SHPO 04-14-99-11, which identifies the presence of historical and cultural resources in the limits of the public square, (See Archaeological Report #5 listed on Page 8).

The Nuestra Señora del Rosario Church

Nuestra Señora del Rosario Catholic Church was registered in the NRHP on December 10, 1984, under NRIS: 84000456¹. Although it is located to the southwest of the project, it is not directly adjacent and there are no direct views to the Nuestra Señora del Rosario Church from the Project.

All works proposed are within the property limit lines of the Project and will not cause changes in the character or use of historic properties of the Nuestra Señora del Rosario Church or other identified

¹ Puerto State Historic Preservation Office. *Propiedades de Puerto Rico incluidas en el Registro Nacional de Lugares Históricos*. San Juan: Office of the Governor. November 20, 2020. 20.

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eligible properties such as the Municipal Cemetery. Refer to Figure 3 for an aerial view of all registered properties and other properties eligible for listing. Refer to Figures 4 & 4A for additional information about the municipal cemetery and other surrounding structures that could be eligible for inclusion in the NRHP.

Marketplace “Plaza del Mercado”.

The “*Plaza del Mercado*” (marketplace) structure was built close to Naguabo's town square, surrounded by the town hall, the municipal theater, and the Nuestra Señora del Rosario Church. It is an integral part of the urban center of Naguabo. The existing structure has exposed architectural columns and concave niches in the main façade, which are evidence of unique artistic elements. The interior of the structure and some exterior walls have been altered. Many exterior walls have been partially demolished to accommodate air conditioning wall units. A metal structure was added to partially roof the interior courtyard. The interior of the multi-use room has been completely renovated. The original doors, windows, bathroom wall tiles, floor tiles, and light fixtures have been replaced.

Photographic and maps records indicated that the existing structure is more than 45 years-old and it's located just outside of the traditional urban center of Naguabo, the Plaza del Mercado has integrated various commercial services and hosted community gatherings that have served Naguabo's urban center for the last five decades.

On the north side of the lot, there are four (4) residential structures and one (1) empty lot. These structures on the north side have a view of the project's parking lot and loading areas. The Municipal Cemetery is located on the northwest side of the project. There is a service entrance to the cemetery on Luis Rivera Sánchez Street. To the west of the lot, there is an empty lot. To the South of the project, there is a municipal parking garage. The main pedestrian entrances to the project and the municipal parking garage occur on Goyco Street, located on the south side. The east side of four residential structures is visible to the east of the structure.

Visual APE

After documenting views to and from the site, this analysis confirms that the proposed project affects no sight of a historically significant place. Refer to Figure 9 for more information.

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Surrounding Buildings - Architecture

Between June 6 and 9, 2023, a site visit was conducted through the urban area of Naguabo, visiting the structures identified in Figure 4. Like the archeological analysis, interviews with five (5) residents of the municipality, Mr. Félix de León, Mrs. Pilar Quiñones Fuentes, Mr. Martín Sánchez, and his wife Carmen Luz Rivera were held. They provided information about structures and their history based on their life experiences. The visit included access to the *Casa del Historiador*, where an informal conversation with local historian Carlos Suárez was held. He provided historical images of Naguabo's urban center which are included in the table shown in Figure 4A. All the data was recorded in a field book, including the information provided by the interviewees, who brought their own experiences or had contact with the original owners. All historical data was compared with other sources of information. Old photos of the properties were organized and included in this document, along with information gathered from the interviewees. Additional photos from other structures were taken, highlighting the architectural features and details from that era.

Effect Determination - Architecture

The National Register of Historic Places (NRHP) inclusion criteria 36 CFR Part 63, established by the National Park Service, was used as a reference to evaluate the existing building of the marketplace and other structures surrounding the APE.

The Naguabo municipal marketplace has a documented existence dating back more than 45 years. This is supported by photographic records from 1967 and 1971. These records are included in this document to substantiate the historical context. Refer to Figure 10 & 11. The primary façade of the marketplace exhibits unique architectural elements that possess distinct artistic value, notably exemplified by the exposed columns featuring concave parapets on the curved exterior wall with tall slim windows. In other facades, interrupted parapets serve as drainage features. Refer to Photos #1 through #13-Figure 9. In the proposed project, there are no plans to demolish or further alter these significant architectural elements.

In the interior, significant alterations have been made to the interior finishes. Notably, a metal roof was added to the courtyard area and metal partitions have been installed in some areas. Air conditioning units have been installed all throughout the exterior walls. All windows, doors, ceilings,

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bathrooms, floors, ceilings, light fixtures, plumbing fixtures, interior walls, exterior walls, and other finishes have been altered but the architectural elements described above still maintain their original appearance.

The structure continues to fulfill its original purpose as a marketplace after more than 45 years which we considered proof to its historical significance to the Municipality of Naguabo.

After evaluating the municipal marketplace's architectural features, surroundings, and date of construction, we find that the structure could be listed as eligible in the NRHP under Criterion C and Criterion D.

Determinations

The following historic properties have been identified within the APE:

- Direct Effect:
 - Architecture - All existing features on the Plaza del Mercado will remain intact, and the property will retain the same historic use. The proposed design to incorporate a new elevator is compatible with the existing structure but will have a differentiated plan as recommended by the New Exterior Additions to Historic Buildings guides. The project will not have an adverse direct effect on the existing structure or its surrounding structures.
 - Archaeology - After analysis and consideration of the available information, including four comprehensive studies conducted in the project area that have consistently yielded no evidence of cultural resources, we can confidently conclude that the proposed project location will not have an adverse direct effect on known archaeological resources. Additionally, the potential for intact deposits within the Area of Potential Effect (APE) is very low, as supported by these studies. Given the absence of cultural resources in the 0.25-mile radius around the project site, except for the archaeological study conducted in the Public Plaza, which may potentially consist of fill material from other sites, we

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determine that the project location does not pose an adverse effect on archaeological resources.

- Indirect Effect:
 - Architecture – The proposed works will not have an adverse indirect effect on the properties surrounding the APE.
 - Archaeological - The proposed works will not indirectly affect any archeological resources outside of the APE.

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

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

- ☐ No Historic Properties Affected
☒ No Adverse Effect
 Condition (if applicable):
☐ Adverse Effect
 Proposed Resolution (if applicable)

This Section is to be Completed by SHPO Staff Only

The Puerto Rico State Historic Preservation Office has reviewed the above information and:	
<input type="checkbox"/> Concurs with the information provided. <input type="checkbox"/> Does not concur with the information provided.	
Comments:	
Carlos Rubio-Cancela State Historic Preservation Officer	Date:

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Figure 1. Project (Parcel) Location – Area of Potential Effect Map (Aerial)



1:2,257
0 0.02 0.04 0.07 mi
0 0.03 0.06 0.11 km
Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

U.S. Environmental Protection Agency

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Figure 2. Project (Parcel) Location - Aerial Map

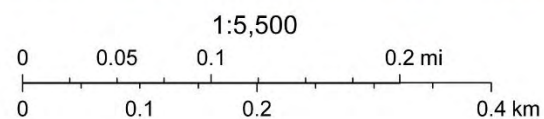
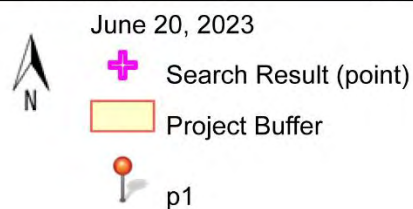


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Figure 3. Project (Parcel) Location – Historic Properties



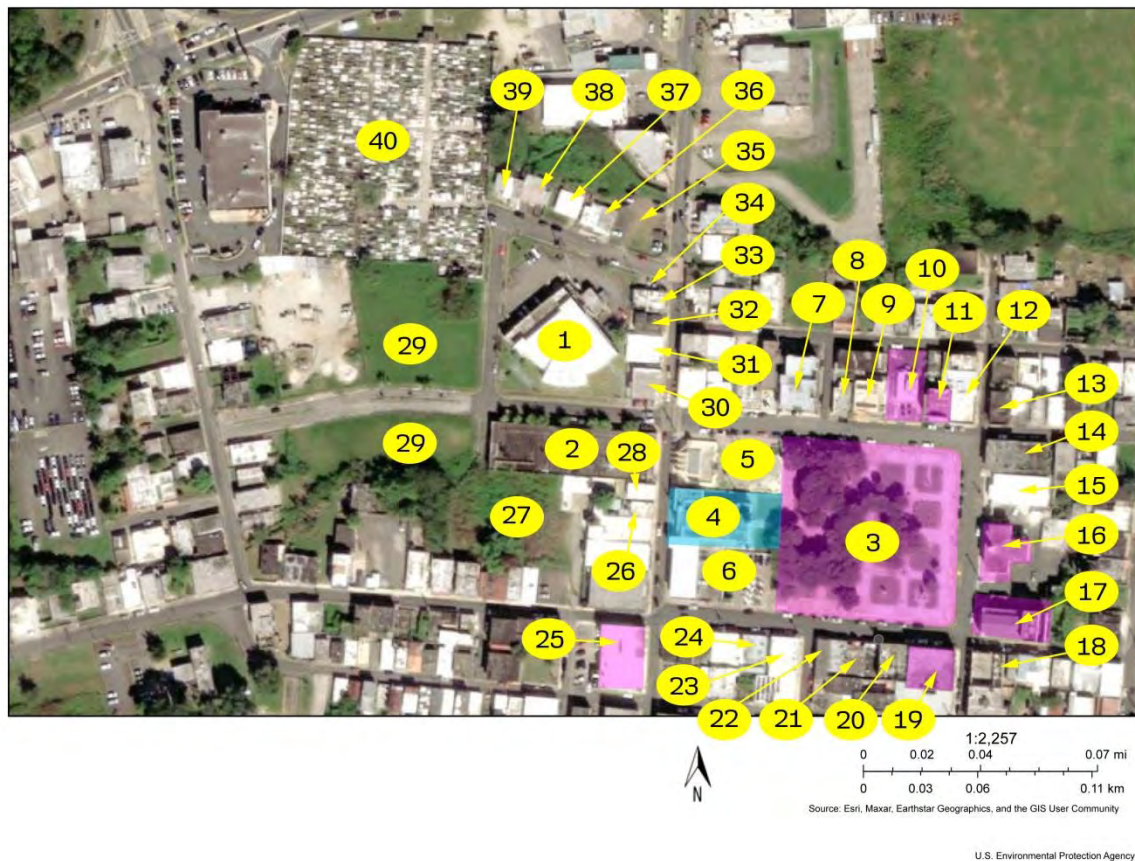
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Figure 4. Key Plan of **Property Inventory of Naguabo's Urban Center**





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Figure 4A. **Property Inventory of Naguabo's Urban Center**

1 PLAZA DEL MERCADO
256-013-001-09
Lat: 18.21292823, Lon: -65.73647730

Inaugurated in 1972. According to the interviewees, before the construction of the Marketplace, the place was a "wooded area" or a "vacant lot," and there was only a "wood and zinc structure used as a garage", which was later destroyed by a fire in 1964.

The structure could be eligible for listing due to unique artistic elements displayed in the Goyco street façade but it is important to note that all windows, doors, ceilings, bathrooms and other finishes, and other elements have been altered. Exterior walls have been altered to install air conditioning units.

The building is adjacent to the boundaries of a designated Historic Zone or city plaza and could be eligible under Criterion C.



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2 ESTACIONAMIENTO MUNICIPAL
256-013-052-06
Lat: 18.21237734, Lon: -65.73643706

Before the construction of the municipal parking lot, there was a wooden house that belonged to Pepe Ocasio and Marta. The municipal parking lot, according to the neighbors, was built about 30 years ago.

The building is within the boundaries of an eligible or listed NRHP historic district but does not possess characteristics that would make it eligible.



2.1 Ocasio Residence – Photo obtained from Local Naguabo Historian, Carlos Suarez.

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3 PLAZA PUBLICA
256-013-014-02
Lat: 18.21203100, Lon: -65.73509116

The Municipal Plaza is individually eligible for listing under Criterion D



3.1 Public Plaza– Don Juan R. Garzot funeral in 1890. Photo obtained from local Naguabo historian, Carlos Suarez

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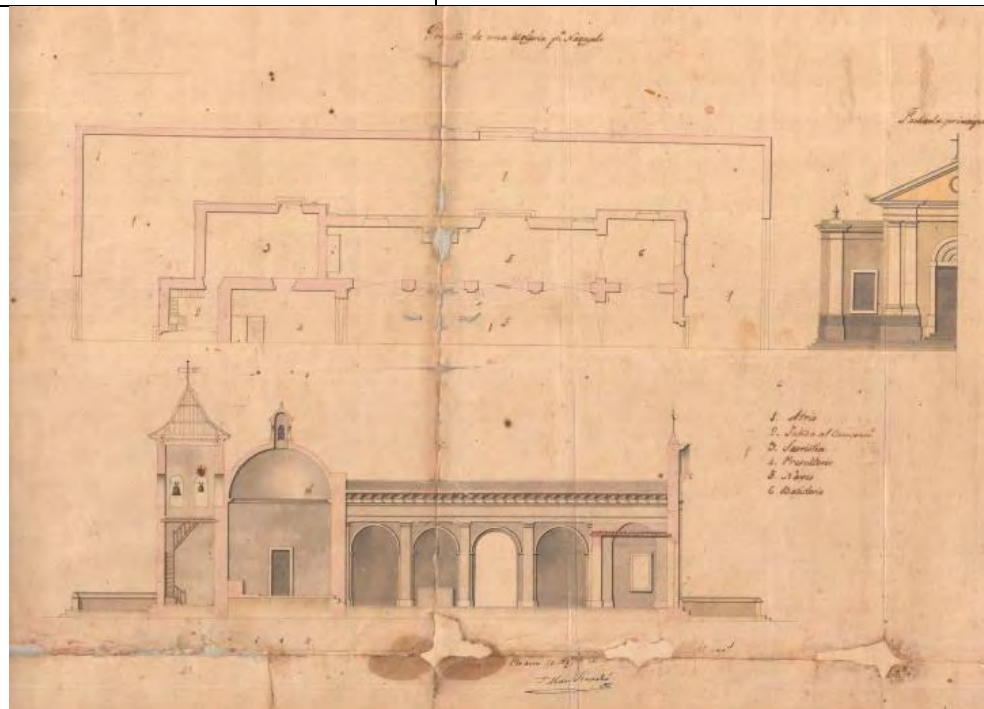
Project Name: Rehabilitación y Mejoras a la Plaza del Mercado

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4 NUESTRA SEÑORA DEL ROSARIO CHURCH
256-013-014-04
Lat: 18.21207025, Lon: -65.73574464

The Church's main structure was built in 1856, and the façade was remodeled in 1858 according to plans by engineer Mariano Bosch. The bell tower was added in 1913. The façade is divided into three vertical naves separated by Doric pilasters in the colossal order. The central area is the main entrance, which is accentuated by the bell tower.

The building is listed in the National Register of Historic Properties. Plans of the Church



4.1 Plans from 1858 of the Church found in the digital archive
<https://archivonacional.com/PL/1/1/5426>



Subrecipient: Municipality of Naguabo

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5 OUTDOOR THEATER
256-013-014-01
Lat: 18.21232128, Lon: -65.73572429

The building is within the boundaries of a designated Historic Zone or city plaza. Currently being renovated but does not possess characteristics that would make it eligible.



6 CHURCH RESIDENCE/OFFICES
256-013-014-03
Lat: 18.21182361, Lon: -65.73575736

In 1972, in the first level, a Catholic School was inaugurated.

The building is within the boundaries of an eligible or listed NRHP historic district but does not possess characteristics that would make it eligible.





Subrecipient: Municipality of Naguabo

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7 RESIDENCE / PHARMACY
256-013-005-05
Lat: 18.21268863, Lon: -65.73539665

Built around the year 1975 by the former mayor Serafín Meléndez, who was a pharmacist. (C. Suarez) The building housed a pharmacy. Currently, the ground floor of the building is a pharmacy.

Building is within the boundaries of a designated Historic Zone or city plaza.



8 RESIDENCE
256-013-006-10
Lat: 18.21261408, Lon: -65.73521066

According to its current owner, the house was built 100 years ago. "It was constructed with stone and brick on wood column foundations because a stream used to pass near the house. That stream was connected to the water source of the square." (C. Suarez).

The building is within the boundaries of a designated Historic Zone or city plaza and could be eligible under Criterion C.





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- 9 RESIDENCE
256-013-006-09
Lat: 18.21260447, Lon: -65.73507916
- As relayed by the present owner, this house was constructed roughly 70 years ago. The existing house occupies the very spot where Doña Inés Mendoza, wife of Luis Muñoz Marin, once called home. The original house where she was born and lived was made of wood and no longer exists.
- Currently, the two-level structure houses a flower shop and a small museum about the history of the municipality, and it is called "The House of the Historian."
- The building is within the boundaries of a designated Historic Zone or city plaza.



- 9.1 In the photo, you can observe the wooden house where Inés Mendoza lived, which is next to the old town hall (a two-story building). The photo was taken in 1856. Photo obtained from local Naguabo historian, Carlos Suarez.



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9.2 In this photo taken in 1913, you can also observe the wooden house where Inés Mendoza lived, which is next to the old town hall (a two-story building). Photo obtained from local Naguabo historian, Carlos Suarez

10 POLICE STATION
256-013-006-02
Lat: 18.21265992, Lon: -65.73491963

The site where the current police station is located used to be the site of the old town Hall (19th century). Later, in the same location, in the 20th century, the old Fire Station was built. It is currently used as a Police Station. The Fire Station was called the "Insular Fire Service" (Photo10.1) and later "Parque de Bombas" (Firehouse) (Photo10.2).

The building is within the boundaries of a designated Historic Zone or city plaza and displays unique artistic elements. Building is individually eligible for listing under Criterion C



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10.1 The photo illustrates the Fire Station with the name "Insular Fire Service". Photo obtained from local Naguabo historian, Carlos Suarez.



10.2 The photo illustrates the Fire Station with the name "Parque de Bombas". Photo obtained from local Naguabo historian, Carlos Suarez.

Subrecipient: Municipality of Naguabo

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- 11 LOS CABALLEROS DEL BIEN LODGE
256-013-006-08
Lat: 18.21256803, Lon: -65.73479137
- "The lodge was composed of a group that helped people with low resources. It was built between the years 1912 and 1916," according to historian Osvaldo Suárez.
- Currently, it is an abandoned building. The building is within the boundaries of a designated Historic Zone or city plaza. Building is individually eligible for listing under Criterion C.



- 12 LOCAL MERCHANTS
256-013-006-11
Lat: 18.21256195, Lon: -65.73466112
- "It was built around 45 to 50 years ago. It used to be a billiard hall, bar, and butcher shop. In the late 19th century, there was a wooden structure that served as the Garzot family's textile store" (C. Suarez). Photo 12.1
- The building is within the boundaries of a designated Historic Zone or city plaza.



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12.1 Photo of the textile store. Photo obtained from local Naguabo historian, Carlos Suarez.

13 RESIDENCE
256-013-007-21
Lat: 18.21257279, Lon: -65.73448541

The owners of the two-level structure were the García Leduc family, who lived on the second level, while the first level was a business where "ice cream and hamburgers were sold." It was known as "La Placita" and was a place where people used to gather and socialize with friends (F. De León and P. Quiñones).

The building is within the boundaries of a designated Historic Zone or city plaza.

The property possesses some aspects of integrity sufficient to convey historic significance and the building could be individually eligible for listing under Criterion C.



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14 LOCAL MERCHANT
256-013-015-01
Lat: 18.21235084, Lon: -65.73440042

Before its construction, there was a wooden house. The cement structure was built around 60 years ago (C. Suarez). Initially, it was the Public Health Unit, and its director was Dr. Franceschi. Then it became Doña Ana Cotto Benítez's Bazaar, and finally, it became a bar managed by Doña Ana Cotto's son. It has always been a two-story building (F. De León).

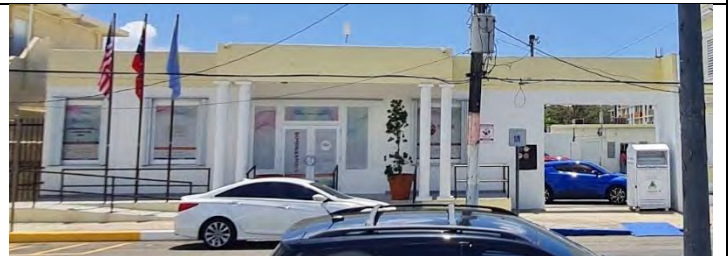
Building is within the boundaries of a designated Historic Zone or city plaza.



15 NEW MAYOR'S OFFICE
256-013-015-16
Lat: 18.21218373, Lon: -65.73441468

Originally, it was a wooden house where Don Enrique Rivera, a merchant, lived. By the 1980s, the wooden house was still standing. The current structure was built in the modern era.

The building is within the boundaries of a designated Historic Zone or city plaza.





Subrecipient: Municipality of Naguabo

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- 16 MAYOR'S OFFICE
256-013-015-15
Lat: 18.21194937, Lon: -65.73438854
- The City Hall was inaugurated at the beginning of the 20th century in the year 1918, according to historian Carlos Suarez.
- The building is within the boundaries of a designated Historic Zone or city plaza and is individually eligible for listing under Criterion C.



16.1 Photo of the town hall taken in the early 1970s. Photo obtained from local Naguabo historian, Carlos Suarez.

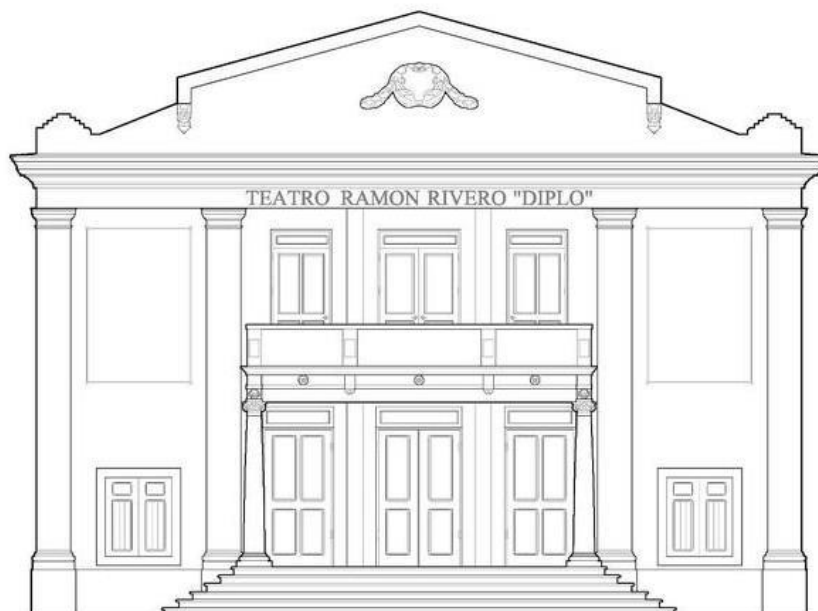


Subrecipient: Municipality of Naguabo

Project Name: Rehabilitación y Mejoras a la Plaza del Mercado

Project ID: PR-CRP-001010

- 17 RESIDENCE
256-013-015-13
Lat: 18.21162213, Lon: -65.73443945
- Built in 1920, the theater's main facade is documented in the Puerto Rico Historic Buildings Drawings Society and remains unaltered. The stage area was added in the 1990s and the interiors were renovated. The main façade remains the only original feature from 1920s.
- The building is within the boundaries of a designated Historic Zone or city plaza and is individually eligible for listing under Criterion C.



17.1 Image taken from the webpage <https://www.prhbds.org/naguabo> of the Puerto Rico Buildings Drawings Society.



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18 RESIDENCE
256-013-024-01
Lat: 18.21143141, Lon: -65.73451932

The building belonged to the pharmacist Don Leoncio Díaz and his wife Doña Carmen. They resided on the second level, while the first level had a pharmacy known as "La Farmacia Díaz". The existing structure is abandoned.

Building is within the boundaries of a designated Historic Zone or city plaza.



18.1 Building can be seen on the far left. It is unknown when this photo was taken. Photo obtained from local Naguabo historian, Carlos Suarez.

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18.2 In this image the pharmacist Don Leonicio Diaz, owner of the pharmacy Diaz. Photo obtained from local Naguabo historian, Carlos Suarez.

19 LOCAL MERCHANT
256-013-023-03
Lat: 18.21136854, Lon: -65.73482645

According to a plaque on the building, it was constructed in 1915. Although it was remodeled in 1961 the building has retained most of the original architectural features in the exterior. The second level was a residence, while the first level was used as a commercial space. By 1953, the municipal Police Station was located on the second level (on the right side of the second level). Currently, there is a lawyer's office on the second level. The flooring is made of wood, and the wooden beams can still be seen on the ceiling. The building retains many original elements.

The building is within the boundaries of a designated Historic Zone or city plaza and is individually eligible for listing under Criterion C.



Subrecipient: Municipality of Naguabo

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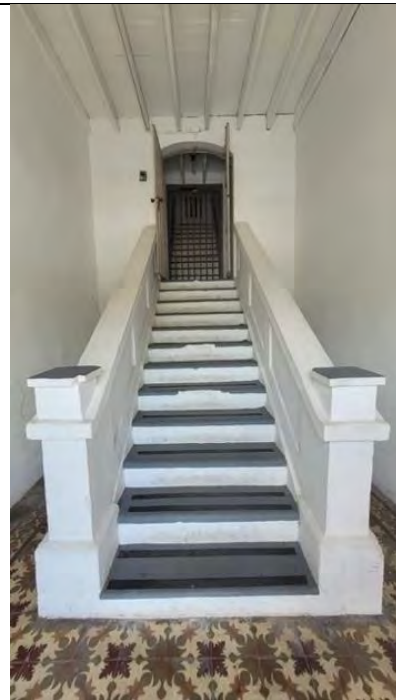
Project ID: PR-CRP-001010



19.1 A portion of the building can be seen on the far right. It is unknown when this photo was taken. Photo obtained from local Naguabo historian, Carlos Suarez.



19.2 Corner ornament. Photo obtained from local Naguabo historian, Carlos Suarez.



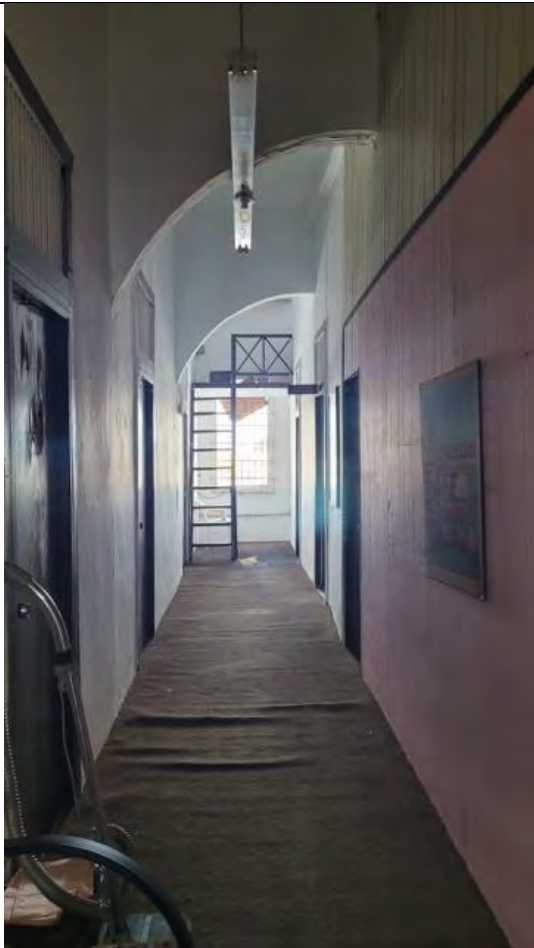
19.3 Staircase in the interior



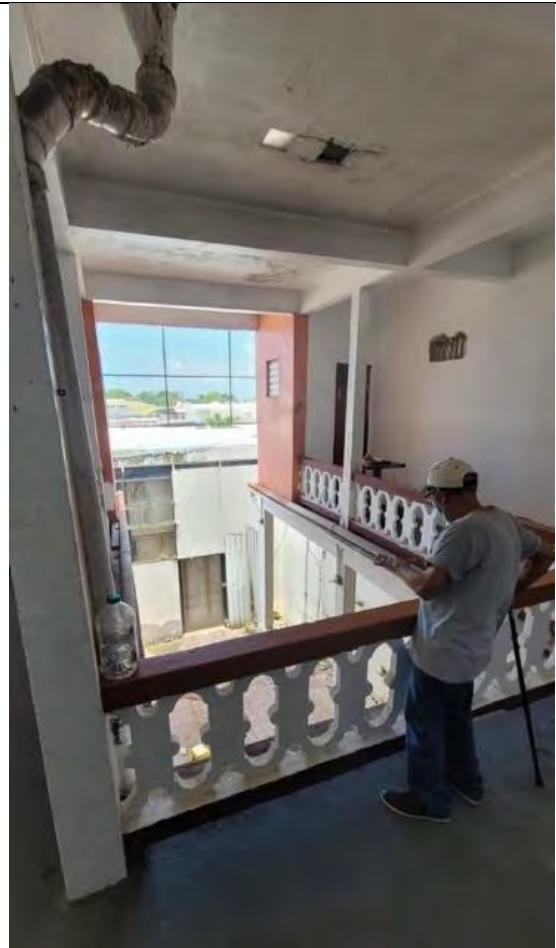
Subrecipient: Municipality of Naguabo

Project Name: Rehabilitación y Mejoras a la Plaza del Mercado

Project ID: PR-CRP-001010



19.3 Staircase in the interior



19.4 Interior courtyard

20 LOCAL MERCHANT & RESIDENCE
256-013-023-02
Lat: 18.21144911, Lon: -65.73500099

Built between 1901 and 1902 was used as a restaurant, bar, and billiard hall.

The property does not possess aspects of integrity sufficient to convey historic significance. The building is within the boundaries of a designated Historic Zone or city plaza.





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21 LOCAL MERCHANT
256-013-023-08
Lat: 18.21144224, Lon: -65.73517542

An old residence from the early 20th century that belonged to the pharmacist Don Ángel Fernández and his family. "It was a house that had a Greek garden inside, with fountains, columns with grapes, and rose bushes" (F. De León). The property does possess some aspects of integrity sufficient to convey historic significance.



22 LOCAL MERCHANT
256-013-023-09
Lat: 18.21147316, Lon: -65.73530424

The building was used as a pharmacy. It belonged to the pharmacist Don Ángel Fernández, who lived in a house right next to it. It was called the "New Pharmacy."

The building is within the boundaries of a designated Historic Zone or city plaza and could be eligible under Criterion C.



23 LOCAL MERCHANT
256-013-022-04
Lat: 18.21141850, Lon: -65.73549521

Residence built in the late 19th century. Its original owner was named Don Manuel Marques (C. Suarez). Later, it became a department store that sold furniture, household items, shoes, clothing, and hardware materials.

The building is within the boundaries of a designated Historic Zone or city plaza and could be eligible under Criterion C.



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- 24 LOCAL MERCHANT
256-013-022-03
Lat: 18.21150105, Lon: -65.73562074
- The pharmacy originally belonged to the former mayor Serafín Meléndez. However, when he was elected as mayor, he had to relinquish ownership of the pharmacy. Subsequently, it was acquired by another owner and is now known as Freddy Pharmacy.
- The property does not possess aspects of integrity sufficient to convey historic significance, but the building is within the boundaries of a designated Historic Zone or city plaza.



- 25 BANK
256-013-021-01
Lat: 18.21148376, Lon: -65.73626537
- The structure was built in 1910. This date is recorded on a tile in front of the building. The second level was used as a residence, while the first level was used for commercial purposes. In the 1930s, there was a clothing store. The owners of the store were Don Pepe Rivera and Doña Mercedes Rivera Ojeda. In 1992, the first level was used as the Municipal Court. Currently, it is used as bank.
- Building is individually eligible for listing.



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26 LOCAL MERCHANT

256-013-001-11

Lat: 18.21212105, Lon: -65.73621810

It was a residence and belonged to the family of Don Pepe Rivera. Before its construction, it was a wooden house where the nuns and the priest of the church used to live.

The property does not possess aspects of integrity sufficient to convey historic significance.



27 EMPTY LOT

256-013-052-14

Lat: 18.21216575, Lon: -65.73655648

According to neighbors, the lot has always been empty.

The lot is adjacent to the boundaries of an eligible or listed NRHP historic district.

No structure to evaluate for eligibility.



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<p>28</p>	<p>RESIDENCE 256-013-001-10 Lat: 18.21220370, Lon: -65.73615039</p> <p>Originally, there was a wooden house where the nuns and the priest of the church used to live (there were two wooden houses, this one and #26). This house burned down. The existing structure was built to be a residence. Building is within the boundaries of an eligible or listed NRHP historic district.</p> <p>The property does not possess aspects of integrity sufficient to convey historic significance.</p>	
<p>29</p>	<p>EMPTY LOT 256-012-012-14 Lat: 18.21273168, Lon: -65.73737409 According to neighbors, the lot has always been empty.</p>	
<p>30</p>	<p>LOCAL MERCHANT 256-013-001-08 Lat: 18.21265281, Lon: -65.73611329</p> <p>Modern building located is within the boundaries of an eligible or listed NRHP historic district.</p> <p>The property does not possess aspects of integrity sufficient to convey historic significance.</p>	



Subrecipient: Municipality of Naguabo

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Project ID: PR-CRP-001010

31	<p>RESIDENCE 256-013-001-09 Lat: 18.21280973, Lon: -65.73610452</p> <p>Modern building located is within the boundaries of an eligible or listed NRHP historic district.</p> <p>The property does not possess aspects of integrity sufficient to convey historic significance.</p>	
32	<p>RESIDENCE 256-013-001-06 Lat: 18.21292678, Lon: -65.73609790</p> <p>Modern building located is within the boundaries of an eligible or listed NRHP historic district.</p> <p>The property does not possess aspects of integrity sufficient to convey historic significance.</p>	



Subrecipient: Municipality of Naguabo

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33 RESIDENCE
& 256-013-001-05
34 256-013-001-04

Lat: 18.21302197, Lon: -65.73609115
Lat: 18.21310025, Lon: -65.73609523

Modern building located is within the boundaries of an eligible or listed NRHP historic district.

The property does not possess aspects of integrity sufficient to convey historic significance. (Two properties were joined)



35 EMPTY LOT
256-013-052-16

Lat: 18.21331761, Lon: -65.73614017

Lot is adjacent to the boundaries of an eligible or listed NRHP historic district.



36 256-013-052-13

Lat: 18.21339125, Lon: -65.73632186

Modern building located in area adjacent the boundaries of an eligible or listed NRHP historic district.




The property does not possess aspects of integrity sufficient to convey historic significance. (Two properties were joined)



Subrecipient: Municipality of Naguabo

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Project ID: PR-CRP-001010

37	<p>RESIDENCE</p> <p>256-013-052-12</p> <p>Lat: 18.21343726, Lon: -65.73646489</p> <p>Modern building located in area adjacent the boundaries of an eligible or listed NRHP historic district.</p> <p>The property does not possess aspects of integrity sufficient to convey historic significance. (Two properties were joined)</p>	
38	<p>RESIDENCE</p> <p>256-013-052-18</p> <p>Lat: 18.21359629, Lon: -65.73649027</p> <p>Modern building located in area adjacent the boundaries of an eligible or listed NRHP historic district.</p> <p>The property does not possess aspects of integrity sufficient to convey historic significance. (Two properties were joined)</p>	
39	<p>RESIDENCE</p> <p>256-013-052-03</p> <p>Lat: 18.21359525, Lon: -65.73673616</p> <p>Modern building located in area adjacent the boundaries of an eligible or listed NRHP historic district.</p> <p>The property does not possess aspects of integrity sufficient to convey historic significance. (Two properties were joined)</p>	



Subrecipient: Municipality of Naguabo

Project Name: Rehabilitación y Mejoras a la Plaza del Mercado

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40 MUNICIPAL CEMETERY

256-012-052-07

Lat: 18.21366173, Lon: -65.73727202

At the entrance to the cemetery, there is a date from 1914. However, there are brick masonry tombs of people who were buried in the late 19th century. One of the brick tombs belongs to a person who died in 1856. This date coincides with the time of the church's foundation.

In the center of the cemetery, you can find the oldest structure, which is the mausoleum built in brick masonry. Inside, there is a small altar, and the interior walls are covered with tiles. The floor appears to be the original one, with marble tiles. Sadly, it is in a deteriorated state, and bushes/trees are growing on the roof, with their roots penetrating the brick walls.

The cemetery itself could be listed under Criterion C

The mausoleum could be listed under Criterion A and Criterion D due to its age and architectural detail.



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40.1 The mausoleum located in the center of the cemetery with engraved date of 1856.



40.2 Entrance arch to the mausoleum. Bricks in walls are visible along with deteriorated metal gates.

Subrecipient: Municipality of Naguabo

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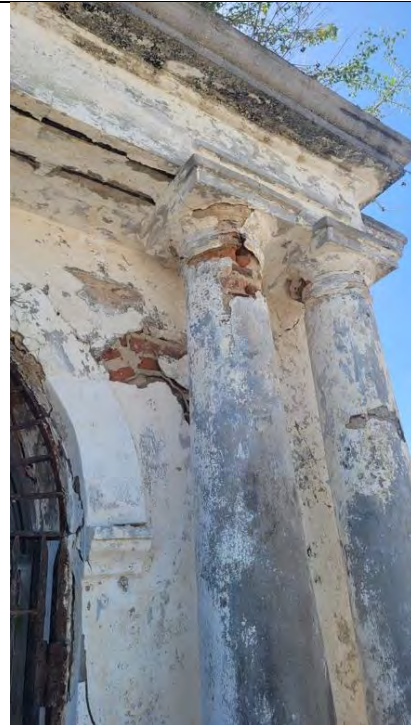
Project ID: PR-CRP-001010



40.3 Perimeter gates around mausoleum.



40.4 Perimeter gates around mausoleum.



40.5 Perimeter gates around mausoleum.

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40.6 Tombstones in one of the mausoleum walls.



40.7 View of the interior of the mausoleum.

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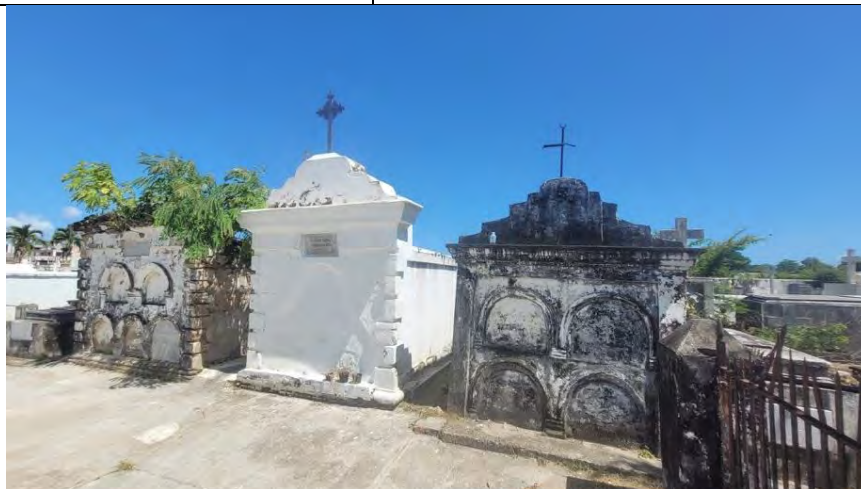
Project ID: PR-CRP-001010



40.8 Tombstones in the interior of the mausoleum with the date of 1856.



40.9 The date recorded in the entrance of the municipal cemetery.

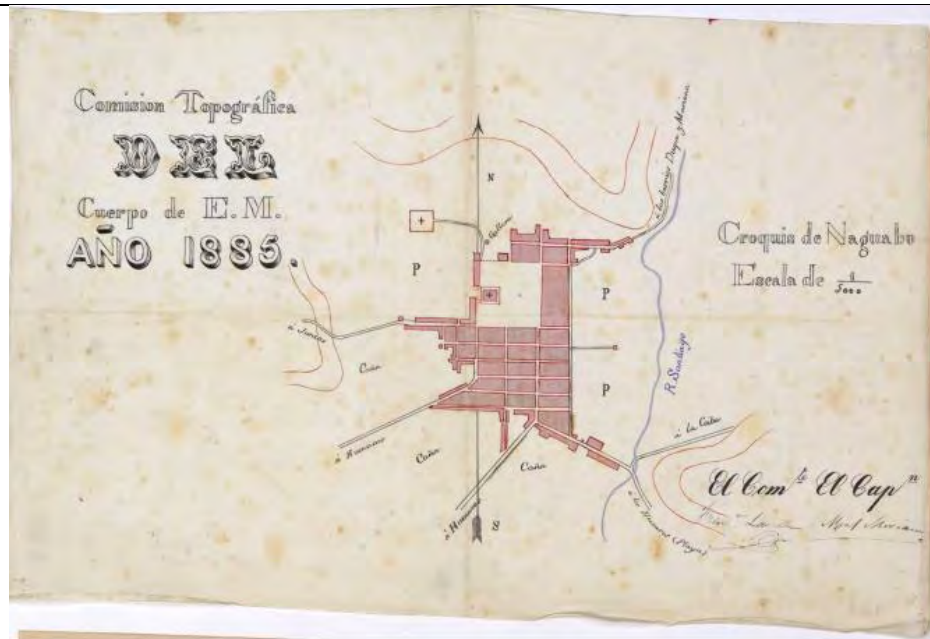


40.10 Other tombs built in the 19th century with similar brick masonry construction.

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40.11 Map of Naguabo from 1885 with the cemetery. Map obtained from the National Digital Archive

<https://archivonacional.com/PL/1/1/1137>



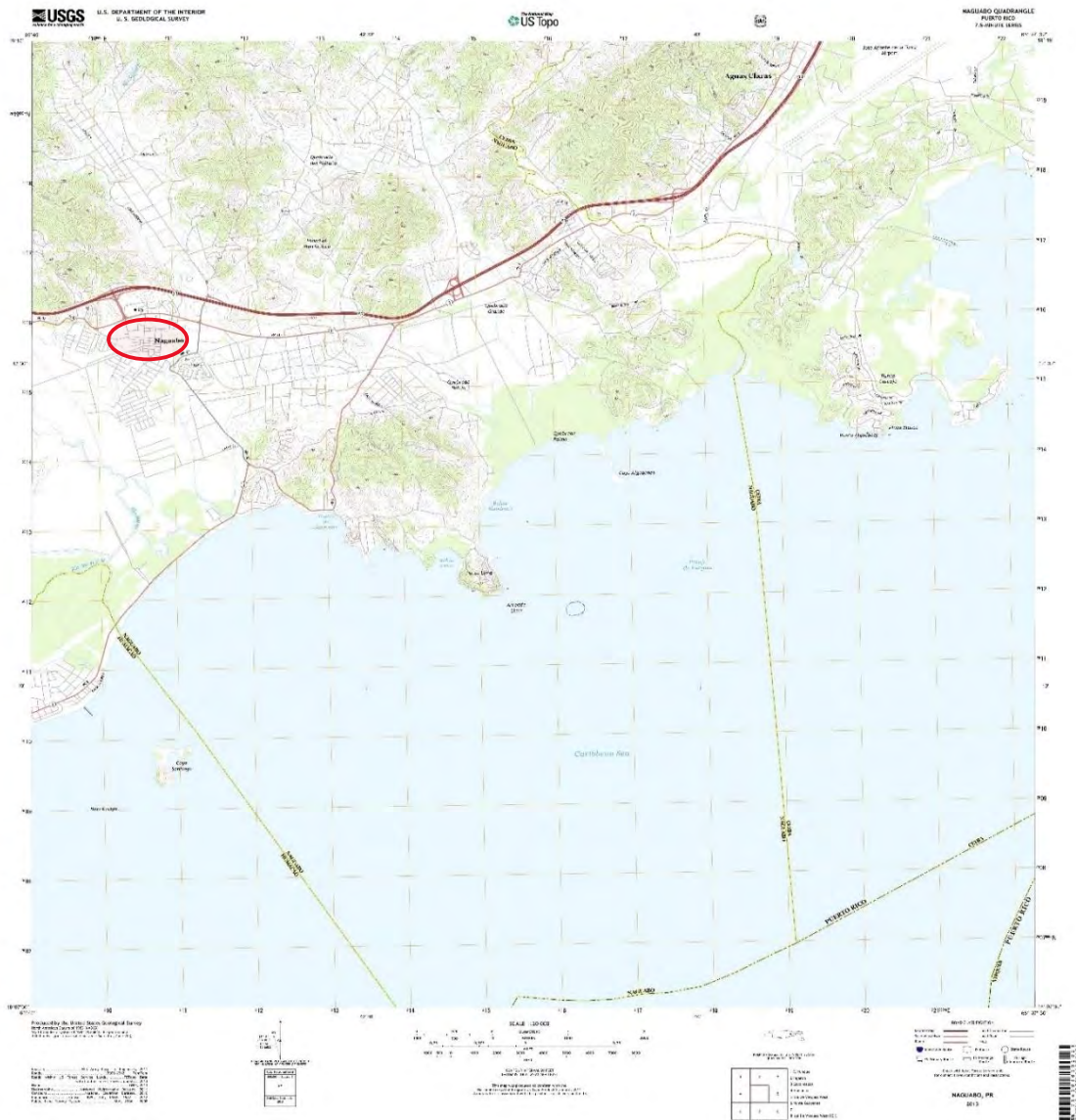
40.11 Map of Naguabo from 1891 with the cemetery. Map obtained from the National Digital Archive <https://archivonacional.com/PL/1/1/1137>

Subrecipient: Municipality of Naguabo

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Figure 5. Project (Parcel) Location - USGS Topographic Map

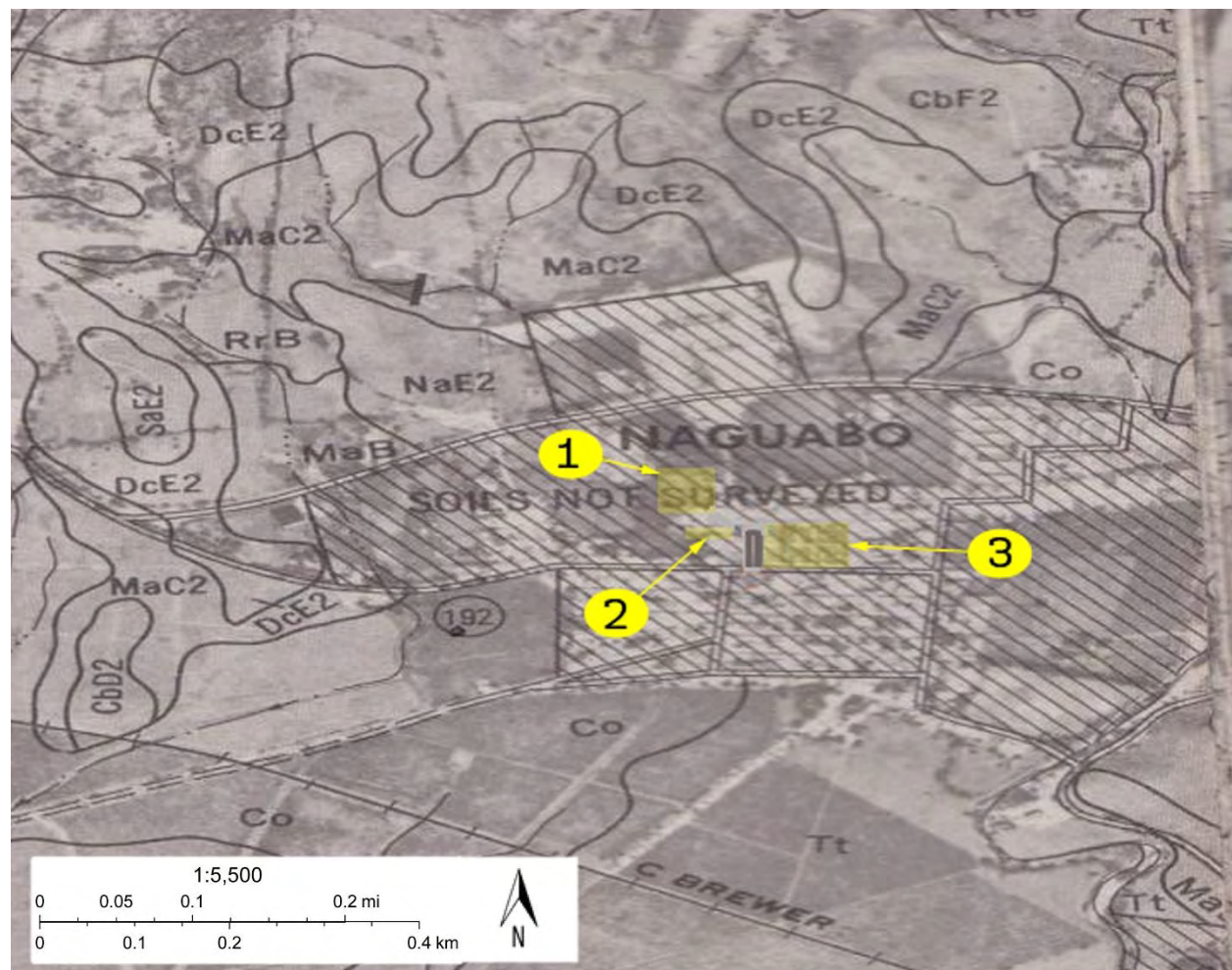


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Figure 6. Project (Parcel) Location – Soils Map



The United States Geologic Services has not surveyed the soils where the proposed projects are located. The USGS does not survey urban soils. Project sites are highlighted in yellow.

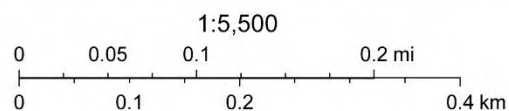
1. Plaza del Mercado
2. Estacionamiento Municipal
3. Plaza Pública

Subrecipient: Municipality of Naguabo

Project Name: Rehabilitación y Mejoras a la Plaza del Mercado

Project ID: PR-CRP-001010

Figure 7. Project Location with Previous Investigations - Aerial Map



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Distribution Airbus DS © 2023 TomTom

1. 1. NG 02 06 02, 2. NG 94 02 07, 3. SHPO 08 13 92 01, 4. NG 08 11 01,
2. 5. NG 98 04 04 / SHPO 01 14 99 11

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Figure 8. Project (Parcel) Location with Previously Recorded Cultural Resources
USGS Topographic Map



Obtained from the map archives of the office of photogrammetry of ACT.



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NG-6 Historic Colonial 19th Century. Sugar Mill and railway bridge. Located in Barrio Río. *Colonial Histórico Siglo XIX Hacienda. Molino Central Azucarera. Puente ferroviario de acero. Localizado en el barrio Río.* – Outside of the 0.25-mile radius.

NG-7 Historic Colonial 19th Century. Steel bridge located in Barrio Maizales. Colonial Histórico Siglo XIX. Puente de hierro. Localizado en el barrio Maizales – Outside of the 0.25-mile radius.

NG-8 Historic Colonial 19th Century. Residential structure from the 19th century located in Barrio Mariana. Colonial Histórico Siglo XIX. Estructura residencial de mediados del siglo 19. Localizada en el barrio Mariana – Outside of the 0.25-mile radius.

NG-13 Petroglyph found in Barrio Río Blanco. No cultural association. *Petroglifo localizado en el barrio Río Blanco. No tiene asociación cultural* – Outside of the 0.25-mile radius.

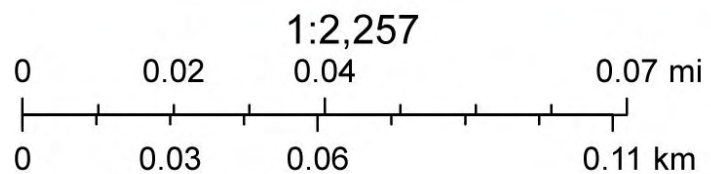
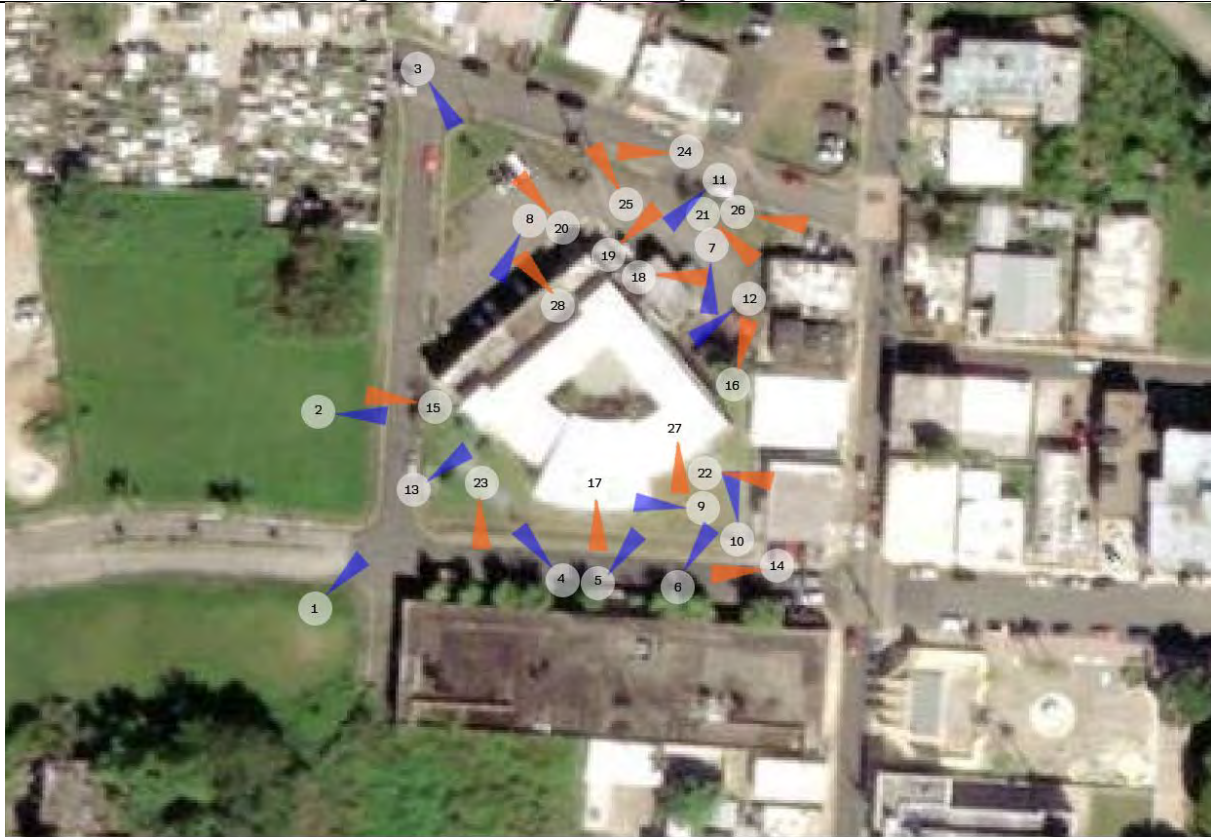
NG- 34 Nuestra Sra. Del Rosario Church – Inside of the 0.25-mile radius.

Subrecipient: Municipality of Naguabo

Project Name: Rehabilitación y Mejoras a la Plaza del Mercado

Project ID: PR-CRP-001010

Figure 9. Photograph Key of View Shed



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

U.S. Environmental Protection Agency

PHOTOKEY

Description: AERIAL VIEW

Subrecipient: Municipality of Naguabo

Project Name: Rehabilitación y Mejoras a la Plaza del Mercado

Project ID: PR-CRP-001010



Photo #: 1

Description: VIEW FROM THE SOUTHWEST CORNER OF THE EXISTING STRUCTURE

Date: 9/14/2022



Photo #: 2

Description: VIEW FROM THE WEST OF THE EXISTING STRUCTURE

Date: 9/14/2022

Subrecipient: Municipality of Naguabo

Project Name: Rehabilitación y Mejoras a la Plaza del Mercado

Project ID: PR-CRP-001010



Photo #: 3

Description: VIEW FROM THE NORTH OF THE EXISTING STRUCTURE

Date: 9/14/2022



Photo #: 4

Description: VIEW FROM THE SOUTH OF THE EXISTING STRUCTURE

Date: 9/14/2022

Subrecipient: Municipality of Naguabo

Project Name: Rehabilitación y Mejoras a la Plaza del Mercado

Project ID: PR-CRP-001010



Photo #: 5

Description: VIEW OF THE SOUTH SIDE OF THE EXISTING STRUCTURE

Date: 9/14/2022



Photo #: 6

Description: VIEW OF THE SOUTHEAST ENTRANCE OF THE EXISTING STRUCTURE

Date: 9/14/2022

Subrecipient: Municipality of Naguabo

Project Name: Rehabilitación y Mejoras a la Plaza del Mercado

Project ID: PR-CRP-001010



Photo #: 7

Description: VIEW FROM THE NORTHWEST OF THE LOADING AREAS OF THE EXISTING STRUCTURE

Date: 9/14/2022



Photo #: 8

Description: VIEW OF THE LOADING AREAS LOCATED TO THE NORTH SIDE OF THE EXISTING STRUCTURE

Date: 9/14/2022

Subrecipient: Municipality of Naguabo

Project Name: Rehabilitación y Mejoras a la Plaza del Mercado

Project ID: PR-CRP-001010



Photo #: 9

Description: VIEW OF THE EXISTING STRUCTURE FROM THE SOUTHEAST ENTRANCE

Date: 9/14/2022



Photo #: 10

Description: VIEW OF THE SOUTHEAST ENTRANCE TO THE STRUCTURE

Date: 9/14/2022

Subrecipient: Municipality of Naguabo

Project Name: Rehabilitación y Mejoras a la Plaza del Mercado

Project ID: PR-CRP-001010



Photo #: 11

Description: VIEW OF THE ELECTRICAL SUBSTATION LOCATED ON THE NORTHEAST SIDE OF THE STRUCTURE

Date: 9/14/2022



Photo #: 12

Description: VIEW OF THE SERVICE ENTRANCE LOCATED ON THE EAST SIDE OF THE EXISTING STRUCTURE

Date: 9/14/2022

Subrecipient: Municipality of Naguabo

Project Name: Rehabilitación y Mejoras a la Plaza del Mercado

Project ID: PR-CRP-001010



Photo #: 13

Description: VIEW OF THE SOUTHWEST ENTRANCE TO THE STRUCTURE

Date: 9/14/2022



Photo #: 14

Description: VIEW OF THE MUNICIPAL PARKING STRUCTURE
LOCATED TO THE SOUTH OF THE EXISTING STRUCTURE

Date: 9/14/2022

Subrecipient: Municipality of Naguabo

Project Name: Rehabilitación y Mejoras a la Plaza del Mercado

Project ID: PR-CRP-001010



Photo #: 15

Description: VIEW OF THE LOT LOCATED ON THE WEST SIDE OF THE STRUCTURE

Date: 9/14/2022



Photo #: 16

Description: VIEW OF THE PARKING LOT AND RESIDENTIAL/COMMERCIAL STRUCTURES ON THE EAST SIDE OF THE LOT

Date: 9/14/2022

Subrecipient: Municipality of Naguabo

Project Name: Rehabilitación y Mejoras a la Plaza del Mercado

Project ID: PR-CRP-001010



Photo #: 17

Description: VIEW OF THE PARKING STRUCTURE LOCATED TO THE SOUTH OF THE LOT

Date: 9/14/2022



Photo #: 18

Description: VIEW OF THE RESIDENTIAL/COMMERCIAL STRUCTURES ON THE EAST SIDE OF THE LOT

Date: 9/14/2022

Subrecipient: Municipality of Naguabo

Project Name: Rehabilitación y Mejoras a la Plaza del Mercado

Project ID: PR-CRP-001010



Photo #: 19

Description: VIEW OF THE EMPTY LOT AND RESIDENTIAL STRUCTURES LOCATED ON THE NORTH SIDE OF THE LOT

Date: 9/14/2022



Photo #: 20

Description: VIEW OF THE MUNICIPAL CEMETERY AND RESIDENTIAL STRUCTURES LOCATED TO THE NORTHWEST SIDE OF THE LOT

Date: 9/14/2022

Subrecipient: Municipality of Naguabo

Project Name: Rehabilitación y Mejoras a la Plaza del Mercado

Project ID: PR-CRP-001010



Photo #: 21

Description: VIEW OF THE EMPTY LOT AND RESIDENTIAL STRUCTURES
LOCATED ON THE NORTH SIDE OF THE LOT

Date: 9/14/2022



Photo #: 22

Description: VIEW OF THE STRUCTURE ADJACENT TO THE SOUTHEAST
ENTRANCE

Date: 9/14/2022

Subrecipient: Municipality of Naguabo

Project Name: Rehabilitación y Mejoras a la Plaza del Mercado

Project ID: PR-CRP-001010



Photo #: 23

Description: VIEW OF THE PARKING STRUCTURE LOCATED TO THE SOUTH OF THE LOT FROM THE SOUTHWEST SIDE OF THE LOT

Date: 9/14/2022



Photo #: 24

Description: VIEW OF THE LUIS SANCHES RIVERA STREET LOCATED TO THE NORT OF THE LOT

Date: 9/14/2022

Subrecipient: Municipality of Naguabo

Project Name: Rehabilitación y Mejoras a la Plaza del Mercado

Project ID: PR-CRP-001010



Photo #: 25

Description: VIEW OF THE RESIDENTIAL STRUCTURES LOCATED TO THE NORTH SIDE OF THE LOT

Date: 9/14/2022



Photo #: 26

Description: VIEW OF THE NORTH SIDE PEDESTRIAN ENTRANCE TO THE PARKING LOT

Date: 9/14/2022

Subrecipient: Municipality of Naguabo

Project Name: Rehabilitación y Mejoras a la Plaza del Mercado

Project ID: PR-CRP-001010



Photo #: 27

Description: AERIAL VIEW OF THE MUNICIPAL PARKING STRUCTURE

Date: 9/14/2022



Photo #: 28

Description: AERIAL VIEW OF THE MUNICIPAL CEMETERY TO
LOCATED ON THE NORTHWEST SIDE OF THE LOT

Date: 9/14/2022

Subrecipient: Municipality of Naguabo

Project Name: Rehabilitación y Mejoras a la Plaza del Mercado

Project ID: PR-CRP-001010

Figure 10. AERIAL VIEW OF THE STRUCTURE TAKEN IN 1967

PHOTO FROM THE ARCHIVES OF THE PHOTOGRAMETRY AUTORIDAD DE CARRETERAS



Subrecipient: Municipality of Naguabo

Project Name: Rehabilitación y Mejoras a la Plaza del Mercado

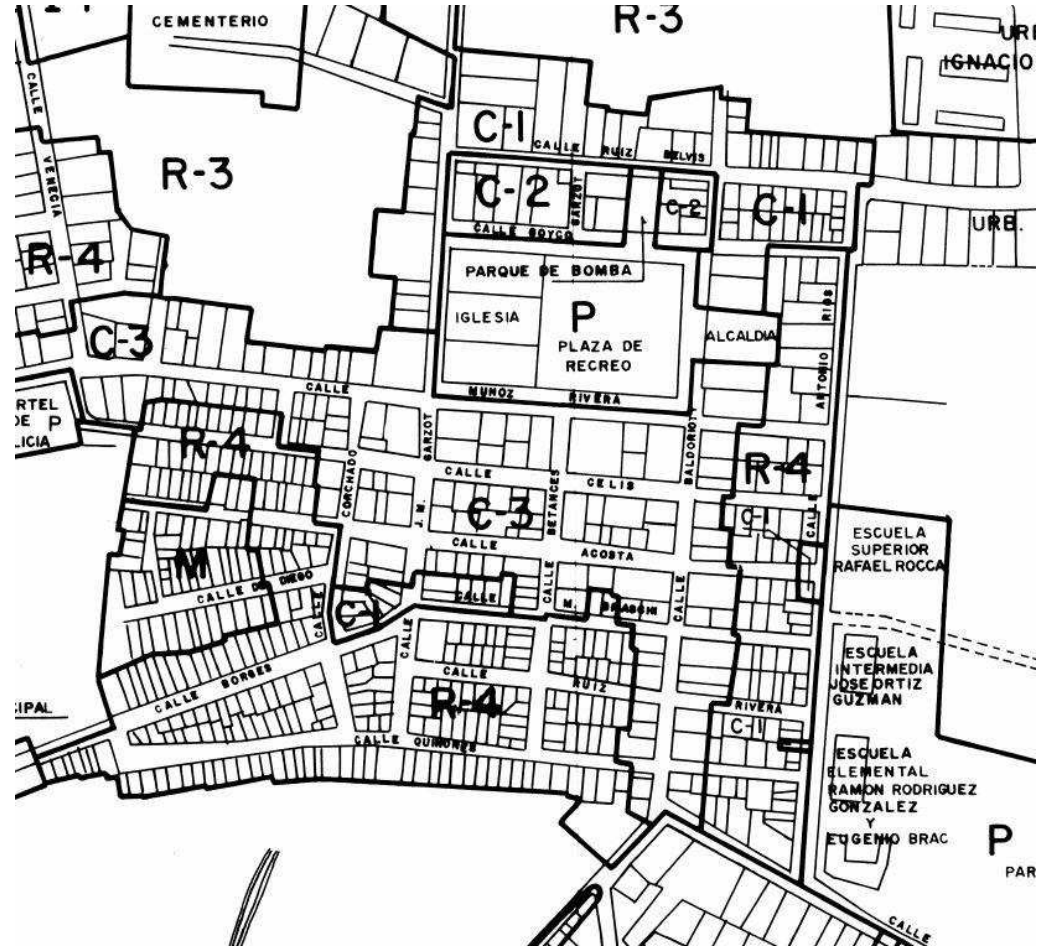
Project ID: PR-CRP-001010

Figure 11. AERIAL VIEW OF THE STRUCTURE TAKEN IN 1972
PHOTO FROM THE ARCHIVES OF THE PHOTOGRAMETRY AUTORIDAD DE CARRETERAS

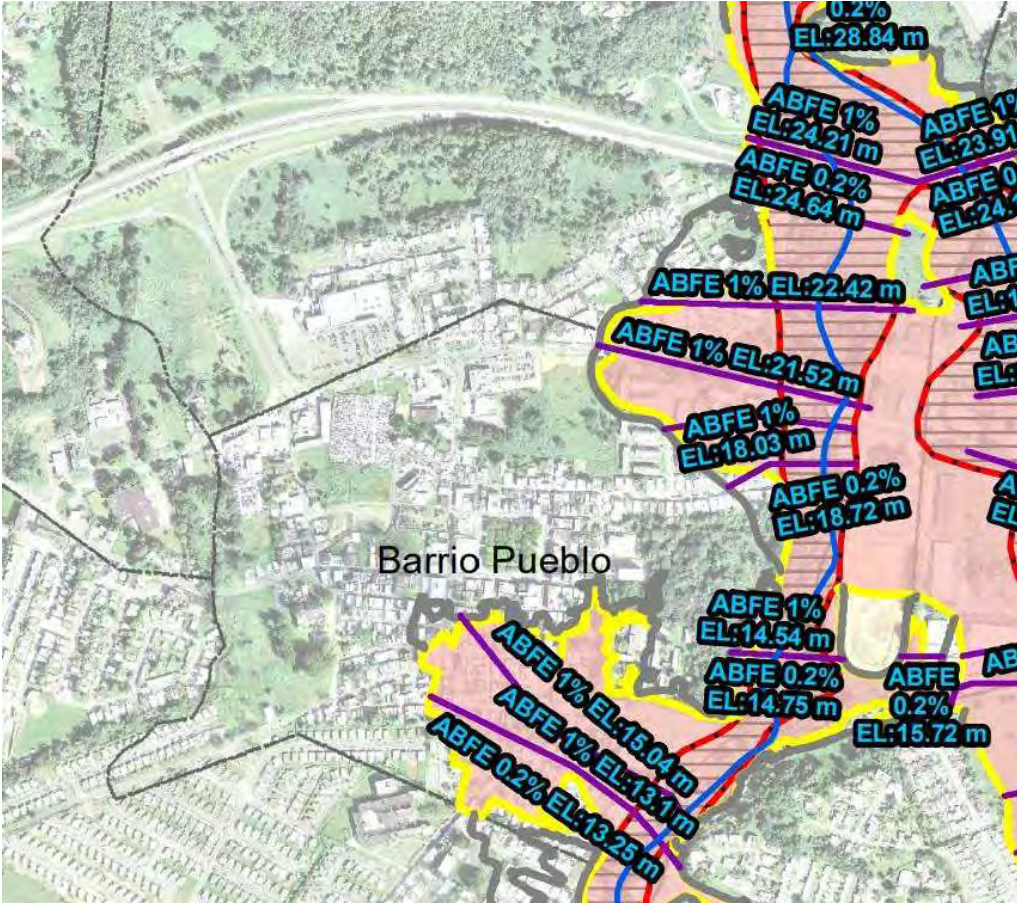




LOCATION PLAN
X: 273926.9318 Y: 242010.4285



MAPA DE ZONIFICACION DE NAGUABO
HOJA NUMERO 4
VIGENCIA: 8 DE AGOSTO DE 2003



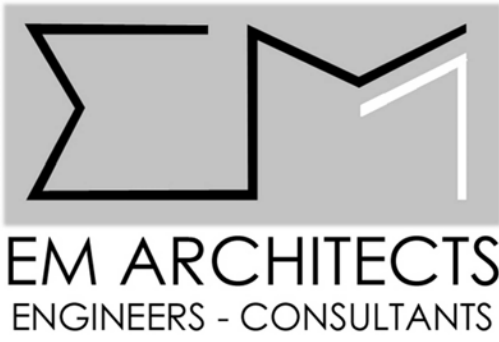
FLOOD MAP PANEL
ZONE X
72000C1280J
VIGENCIA: 13 DE ABRIL DE 2018



MUNICIPIO DE NAGUABO
HON. MIRAIDALIZ ROSARIO PAGÁN

MEJORAS A PLAZA DEL MERCADO
NAGUABO, PUERTO RICO

PLANOS PRELIMINARES
14/SEPTIEMBRE/2022

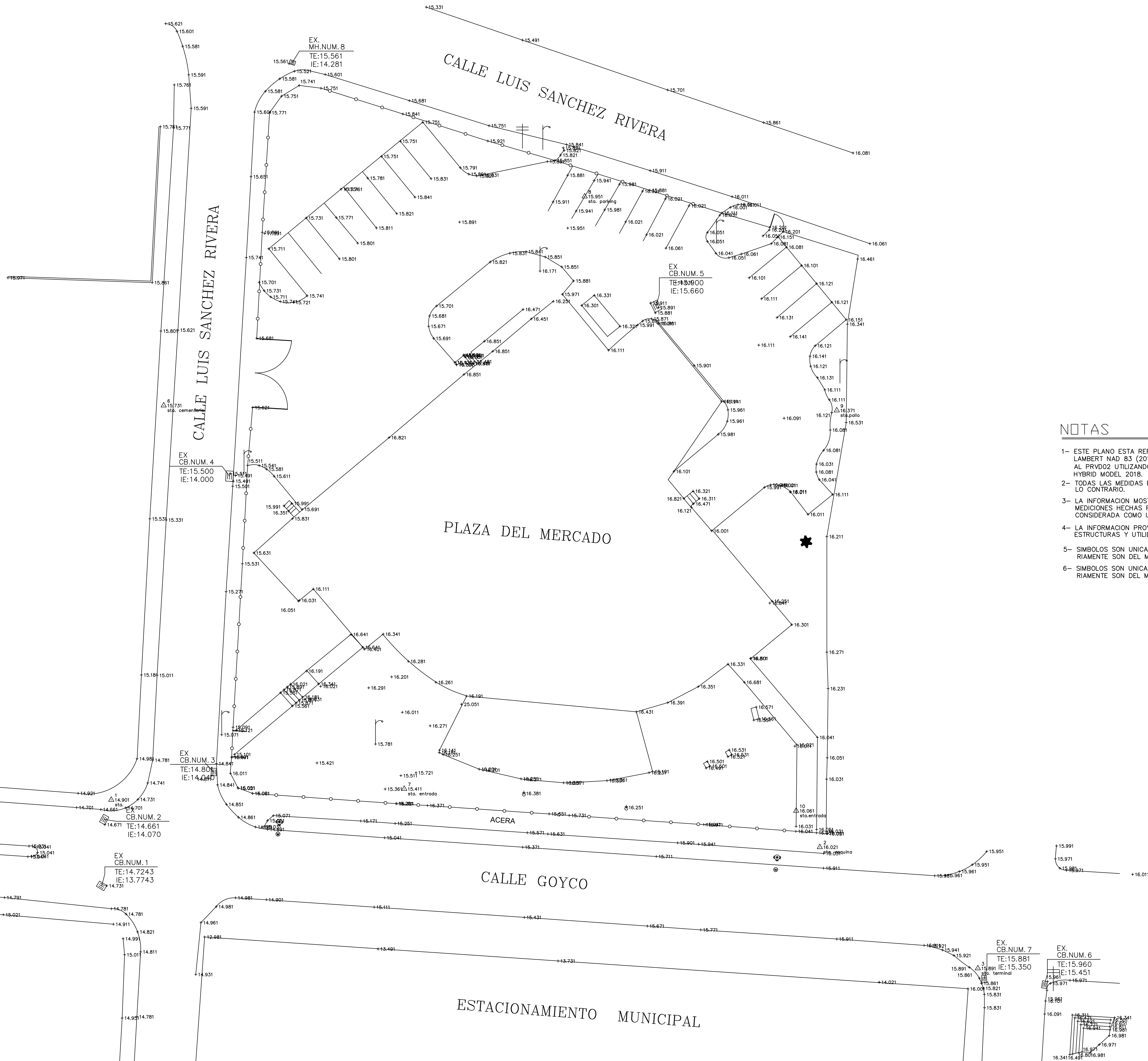


DRAWING INDEX

SHEET	NOMENCLATURE	SHEET NAME
01	T100	TITLE SHEET
02	A000	EXTERIOR 3D VIEWS
03	C-4	PLANO AS-BUILT
04	SA100	PROPOSED SITE PLAN
05	EX101	EXISTING & DEMOLITION PLAN - 1ST LEVEL
06	EX102	EXISTING & DEMOLITION PLAN - 2ND LEVEL
07	EX103	EXISTING ROOF PLAN
08	A101	ARCHITECTURAL FLOOR PLAN - 1ST LEVEL
09	A102	ARCHITECTURAL FLOOR PLAN - 2ND LEVEL
12	A501	ENLARGED VIEW PLAN - MAIN ENTRANCE
13	A502	ENLARGED VIEW ELEV. SECTION - MAIN ENTRANCE
14	A503	ENLARGED VIEW - COURTYARD FLOOR PLAN
15	A504	ENLARGED VIEW - BATHROOMS
17	ST100	FOUNDATION PLAN AND STRUCTURAL ROOF PLAN
18	SE-101	METER BANK
19	E101	POWER AND TELECOMM PLAN
20	E102	LIGHTING PLAN
21	E201	POWER AND TELECOMM PLAN
22	E202	LIGHTING PLAN

- CONTRACTOR NOTES:
- 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 ARCHITECT BEFORE ANY PART OF THE WORK IS STARTED SO THAT PROPER CORRECTIONS ARE MADE. IF ARCHITECT IS NOT NOTIFIED PRIOR TO COMMENCING OF THE WORK, THE CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR ANY DISCREPANCIES, ERRORS AND/OR OMISSIONS.
 - ALL DESIGNS AND DRAWINGS HEREIN AND PRINTS ISSUED BY THE ARCHITECT ARE THE PROPERTY OF THE ARCHITECT AND SHALL NOT BE REUSED ON ANY OTHER LOCATION EXCEPT THE ONE FOR WHICH THEY WERE EXPRESSLY DESIGNED.
 - IF THESE DRAWINGS OR ANY PART THEREOF IS REPRODUCED WITHOUT THE CONSENT OF THE ARCHITECT, THE PERSON SO DOING WILL BE INDEBTED TO THE ARCHITECT FOR HIS FULL COMMISSION.
 - CONTRACTOR SHALL NOT USE FOR CONSTRUCTION PURPOSES ANY DRAWINGS THAT WERE ADVANCED TO HIM PRIOR TO THE START OF CONSTRUCTION. ALL PLANS BEING USED BY CONTRACTOR SHOULD BEAR A STAMP WITH THE LABEL: "FOR CONSTRUCTION ONLY" SIGNED BY ARCHITECT.
 - GENERAL CONTRACTOR SHALL FIELD SURVEY LOCATION AND VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE TENANT AND ARCHITECT.
 - GENERAL CONTRACTOR SHALL COMPLETE ALL WORK AS INDICATED ON THESE PLANS UNLESS OTHERWISE NOTED.
 - GENERAL CONTRACTOR SHALL OBTAIN PERMITS, APPROVALS, INSPECTIONS, CERTIFICATE FOR COMPLIANCE AND CERTIFICATE OF OCCUPANCY AS REQUIRED, UNLESS OTHERWISE NOTED.
 - GENERAL CONTRACTOR SHALL CHECK IN WITH AND COORDINATE ALL WORK WITH THE LANDLORD'S PROJECT PERSONNEL.
 - GENERAL CONTRACTOR SHALL PROVIDE TEMPORARY POWER, LIGHT AND TELEPHONE IN ACCORDANCE WITH LANDLORD'S AND TENANTS REQUIREMENTS.
 - GENERAL CONTRACTOR SHALL REMOVED ALL THESE ITEMS AT THE COMPLETION OF WORK OR AS REQUIRED.
 - GENERAL CONTRACTOR SHALL HAVE TENANT'S SPACE CLEANED UPON COMPLETION OF WORK BY A PROFESSIONAL CLEANING SERVICE.
 - GENERAL CONTRACTOR SHALL MAINTAIN ON SITE AT ALL TIMES, ALL APPROVED DRAWINGS INCLUDING ALL REVISIONS AND ADDENDA.
 - GENERAL CONTRACTOR SHALL HAVE AT ALL TIME IN SITE OFFICE COPY OF ALL ENDORSEMENTS AND PERMITS OF THE PROJECT AT A VISIBLE PLACE.

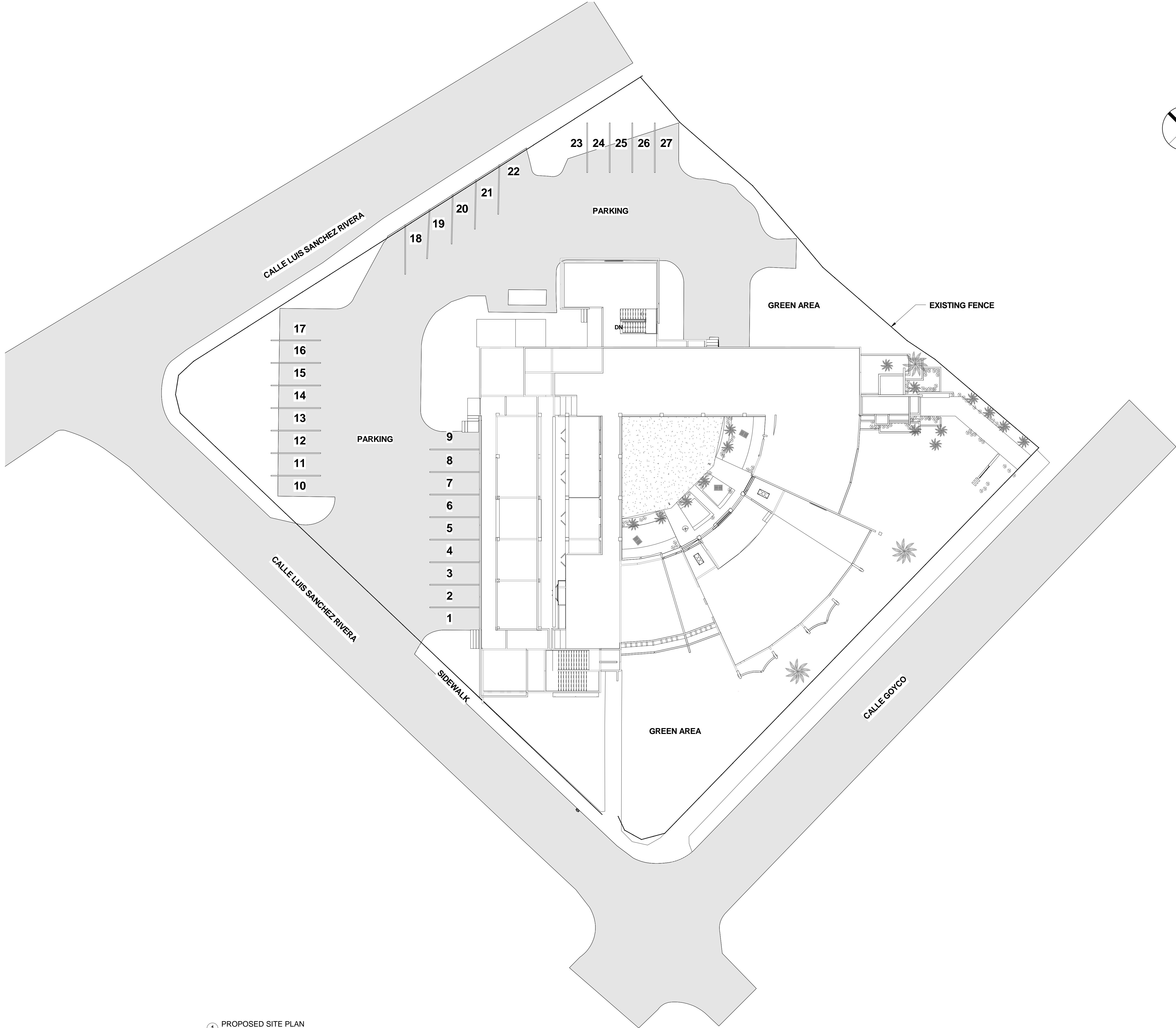




- 1- ESTE PLANO ESTA REFERIDO AL SISTEMA DE COORDENADAS PLANAS ESTATALES LAMBERT NAD 83 (2011) EPOCH: 2010.0000 Y LAS ELEVACIONES ESTAN REFERIDAS AL PRVD02 UTILIZANDO : ORTHOMTRIC HEIGHT DERIVED BY GPS UTILIZANDO EL GEOD HYBRID MODEL 2018.
- 2- TODAS LAS MEDIDAS ESTAN EXPRESADAS EN METROS, AL MENOS QUE SE INDIQUE LO CONTRARIO.
- 3- LA INFORMACION MOSTRADA EN ESTE PLANO REPRESENTA EL RESULTADO DE LAS MEDICIONES HECHAS PARA LA FECHA INDICADA EN EL PLANO Y SOLO PUEDE SER CONSIDERADA COMO UNA INDICACION DE LAS CONDICIONES EXISTENTES EN EL MOMENTO.
- 4- LA INFORMACION PROVISTA EN ESTE PLANO PUEDE O NO MOSTRAR TODAS LAS ESTRUCTURAS Y UTILIDADES EXISTENTES POR ENCIMA Y POR DEBAJO DEL TERRENO.
- 5- SIMBOLOS SON UNICAMENTE PARA PROPOSITO DE ILUSTRACION, ELLOS NO NECESARIAMENTE SON DEL MISMO TIPO O TAMAÑO DEL OBJETO QUE ELLOS REPRESENTAN.
- 6- SIMBOLOS SON UNICAMENTE PARA PROPOSITO DE ILUSTRACION, ELLOS NO NECESARIAMENTE SON DEL MISMO TIPO O TAMAÑO DEL OBJETO QUE ELLOS REPRESENTAN.

SYMBOL	DESCRIPTION
—	PROPERTY LINES
—	METAL FENCE
—	CHAIN LINK FENCE
—	RAILROAD AND POWER LINES
—	WIRE CONTAINERS
—	INTERMEDIATE CONTAINERS
•	POINTS
•	STATIONS
•	ROAD MARK
•	SUBSIDING POINTS
•	RAVINE
•	CATCH BASIN
•	WATERWALL
•	LIGHTING POLES
•	POWER POLES
•	TELEPHONE POLES
•	WELL

SURVEY CERTIFICATE:
I DO HEREBY CERTIFY THAT THIS SURVEY WORK WAS PERFORMED DURING THE MONTH OF JULY 2022, THAT ELECTRONIC DISTANCES MEASURING INSTRUMENT (TOPCON-GM SERIES) WERE USED FOLLOWING THE STANDARD SURVEY TECHNIQUES FOR THESE CASES.



1 PROPOSED SITE PLAN
1/16" = 1'-0"

EM ARCHITECTS

ARG. ELI MARIANO MARTÍNEZ BELENDEZ, AIA
PO Box 2710-113
San Juan, PR 00923
emarchitects@gmail.com
787.529.8551

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ARCHITECT:

CONSULTANT:

CERTIFIED BY:

REVISION / DATE / DESCRIPTION

PROJECT
MEJORAS A PLAZA DEL MERCADO
NAGUABO, PUERTO RICO

CLIENT
MUNICIPIO DE NAGUABO

PROJECT #:

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

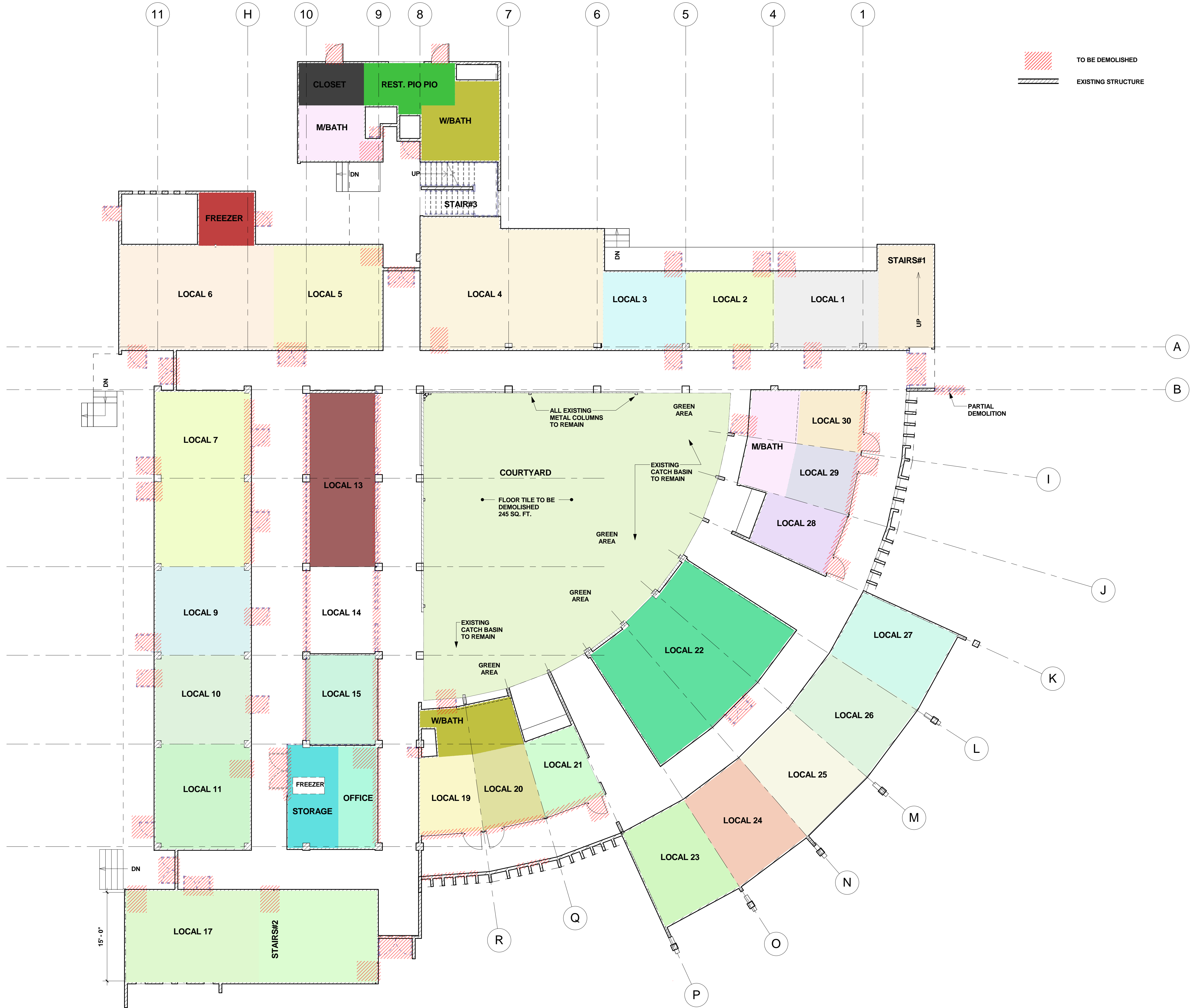
DRAWN BY: Author

PROPOSED SITE PLAN

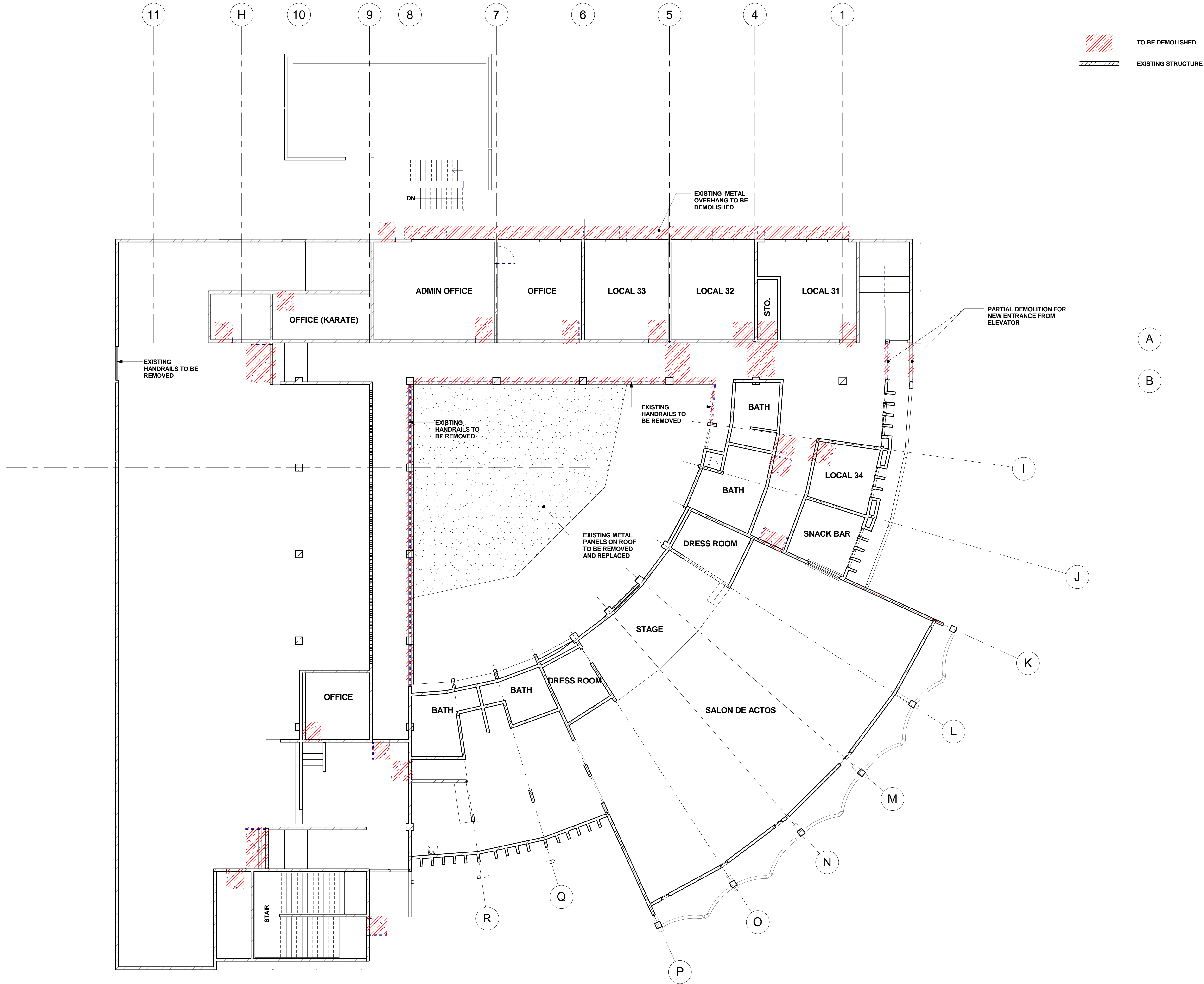
TITLE

SA100

SHEET



EXISTING & DEMOLITION PLAN (1ST LEVEL)
1/8" = 1'-0"



EXISTING & DEMOLITION PLAN (2ND LEVEL)
1/8" = 1'-0"

TO BE DEMOLISHED
EXISTING STRUCTURE

EM ARCHITECTS
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MEJORAS A PLAZA DEL MERCADO
NAGUABO, PUERTO RICO

CLIENT
MUNICIPIO DE NAGUABO

PROJECT #:

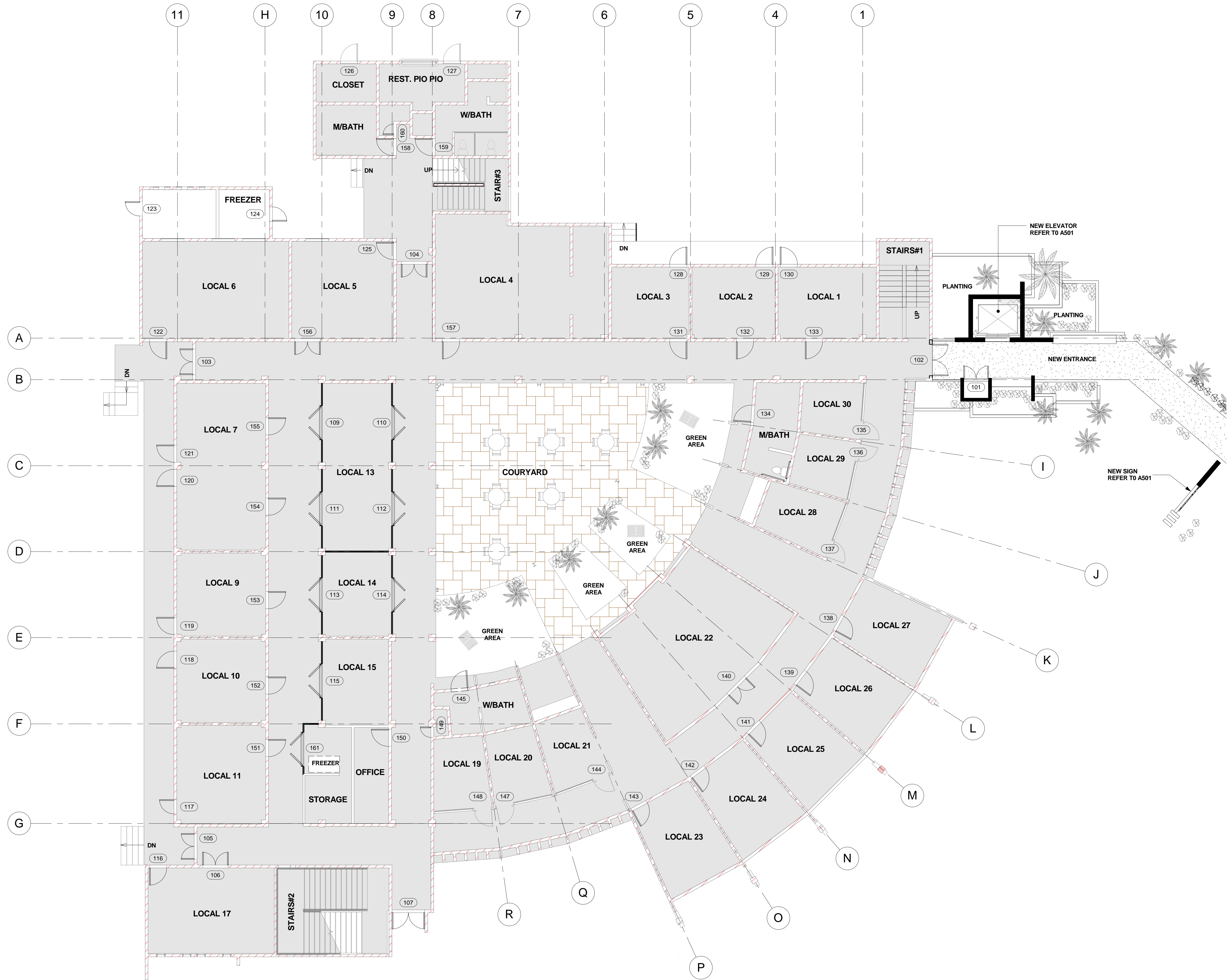
SCALE: As indicated

DRAWN BY: Author

EXISTING & DEMOLITION PLAN
- 2ND LEVEL

TITLE
EX102

SHEET



1 ARCHITECTURAL FLOOR PLAN (1ST LEVEL)
1/8" = 1'-0"

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MEJORAS A PLAZA DEL MERCADO
NAGUABO, PUERTO RICO

CLIENT
MUNICIPIO DE NAGUABO

PROJECT #:

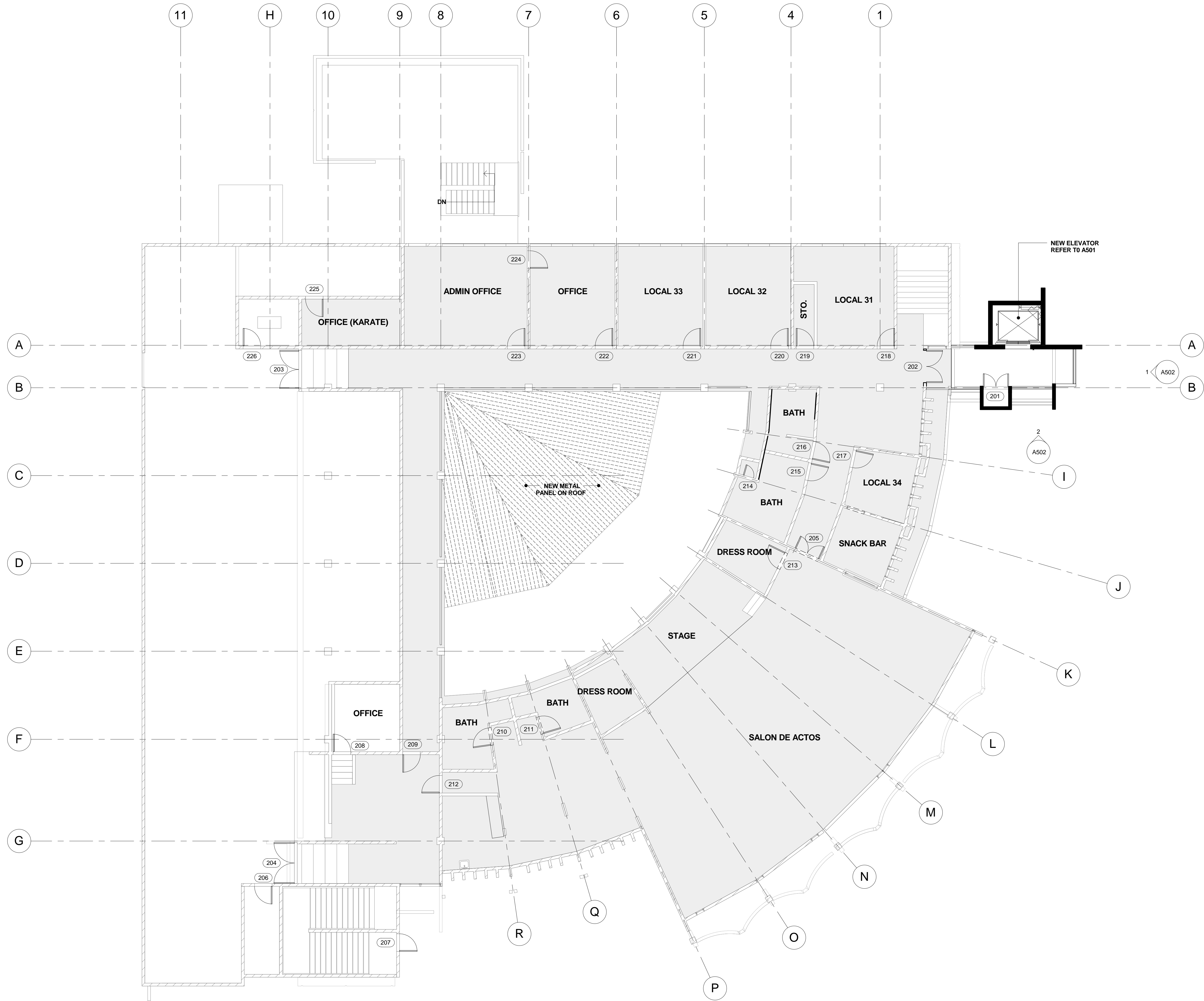
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DRAWN BY: Author

ARCHITECTURAL FLOOR PLAN - 1ST LEVEL

TITLE
A101

SHEET



ARCHITECTURAL FLOOR PLAN (2ND LEVEL)
1/8" = 1'-0"

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MUNICIPIO DE NAGUABO

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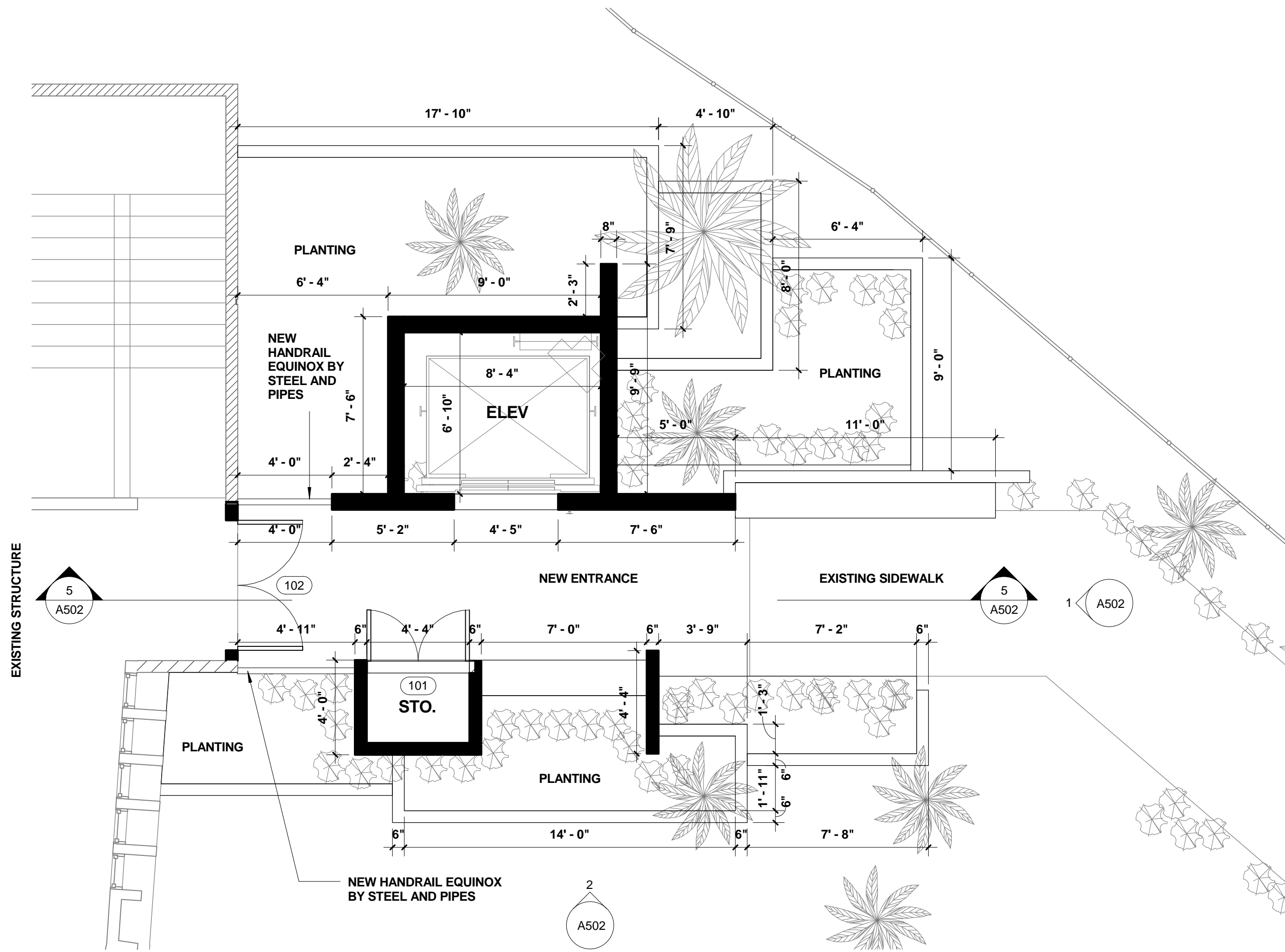
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DRAWN BY: Author

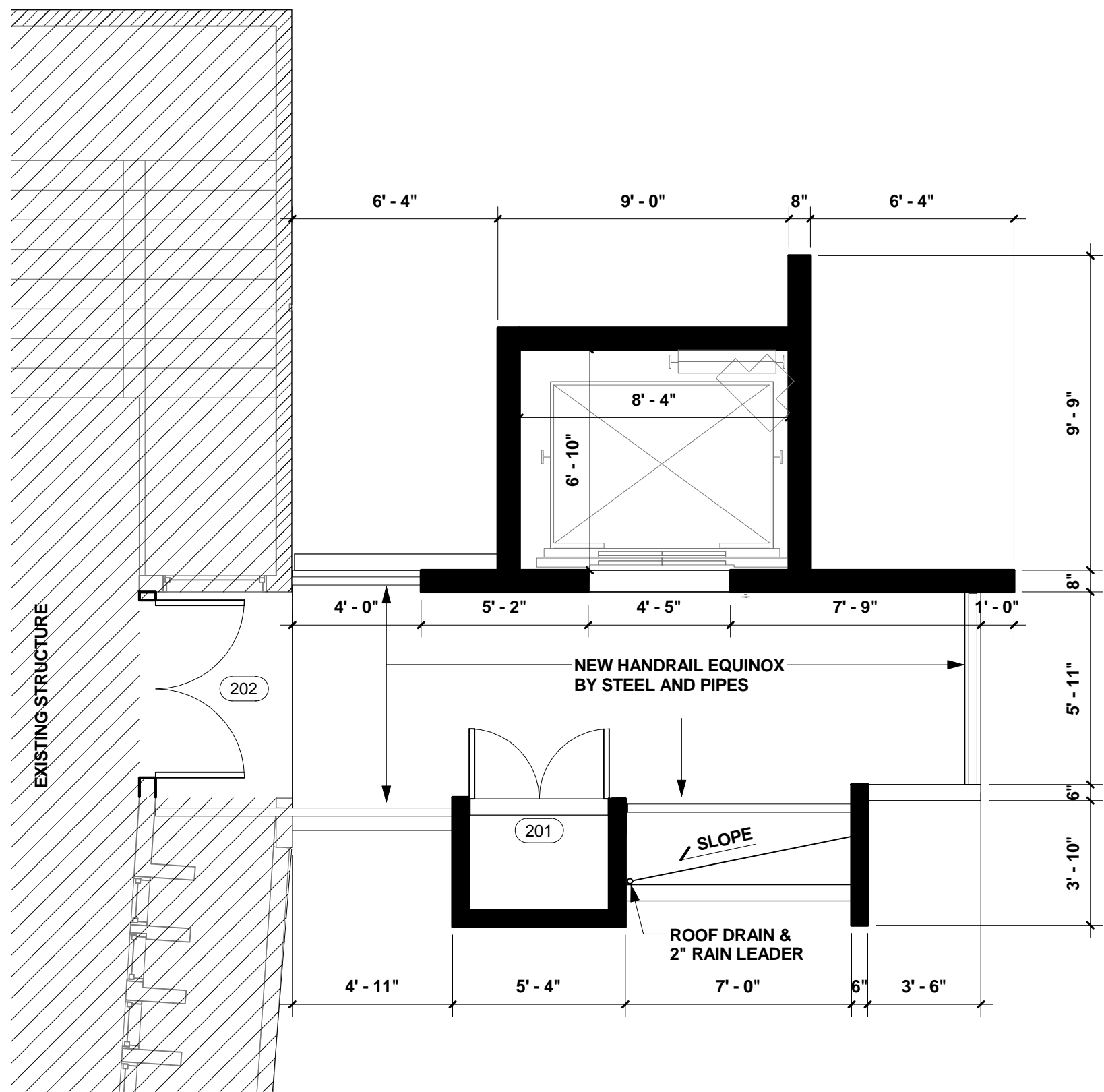
ARCHITECTURAL FLOOR PLAN - 2ND LEVEL

TITLE
A102

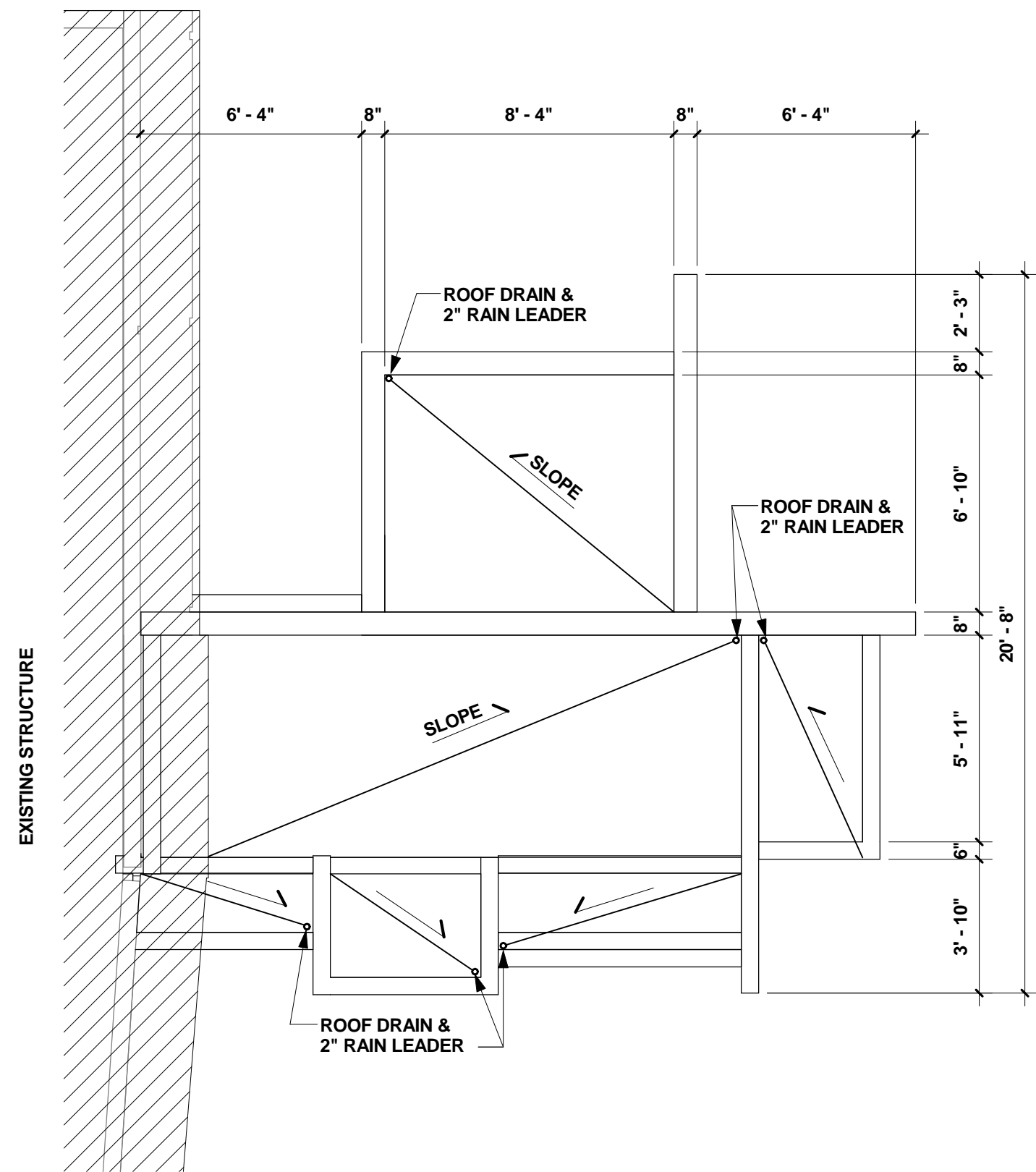
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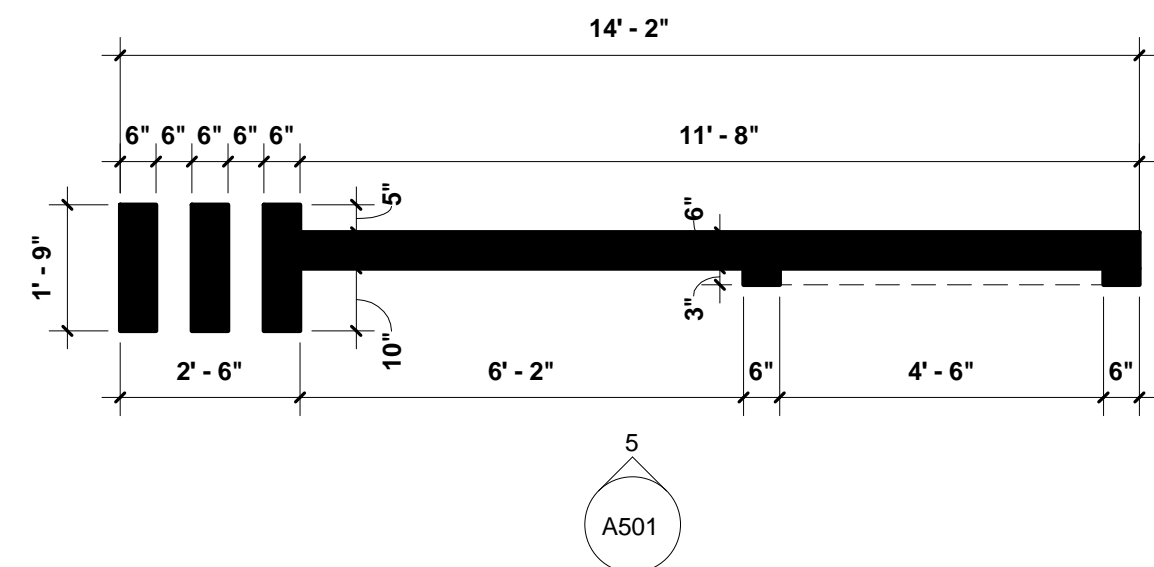
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1/4" = 1'-0"



2 ENLARGED VIEW - NEW ENTRANCE - 2ND LEVEL
1/4" = 1'-0"



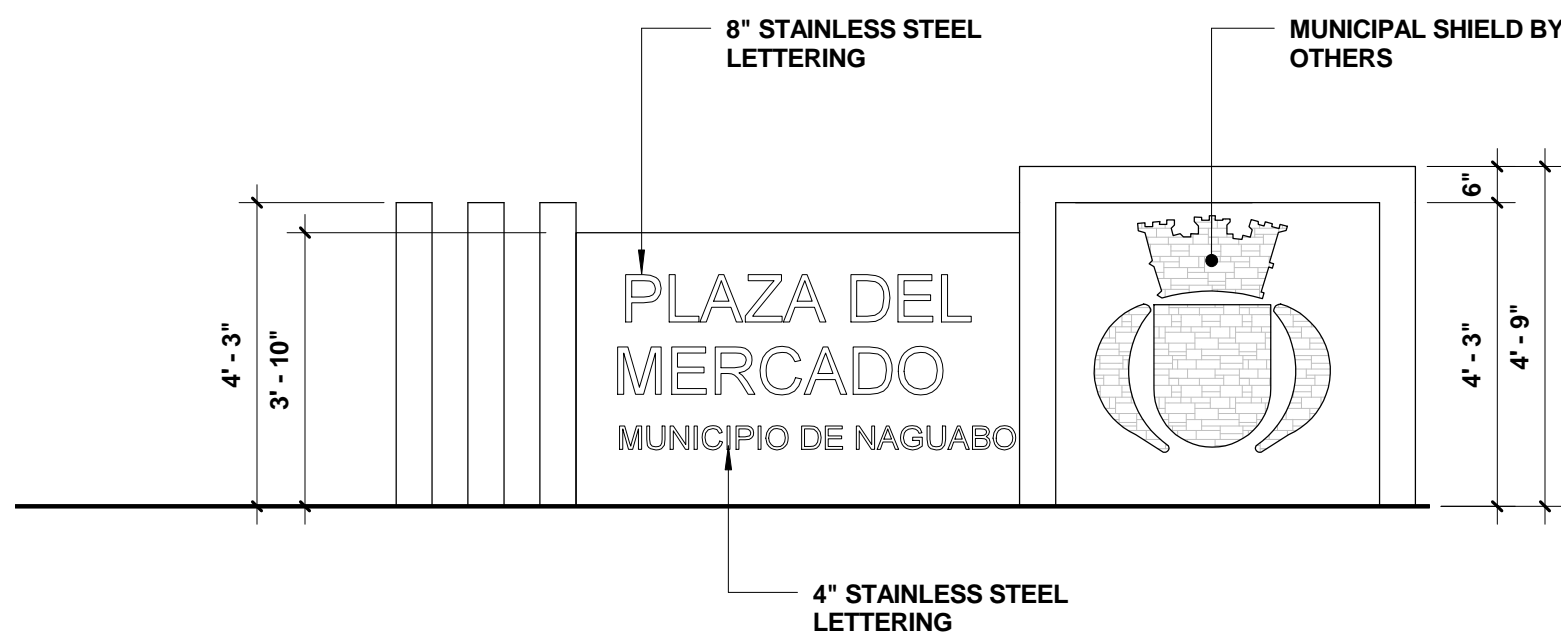
3 ENLARGED VIEW - ROOF LEVEL
1/4" = 1'-0"



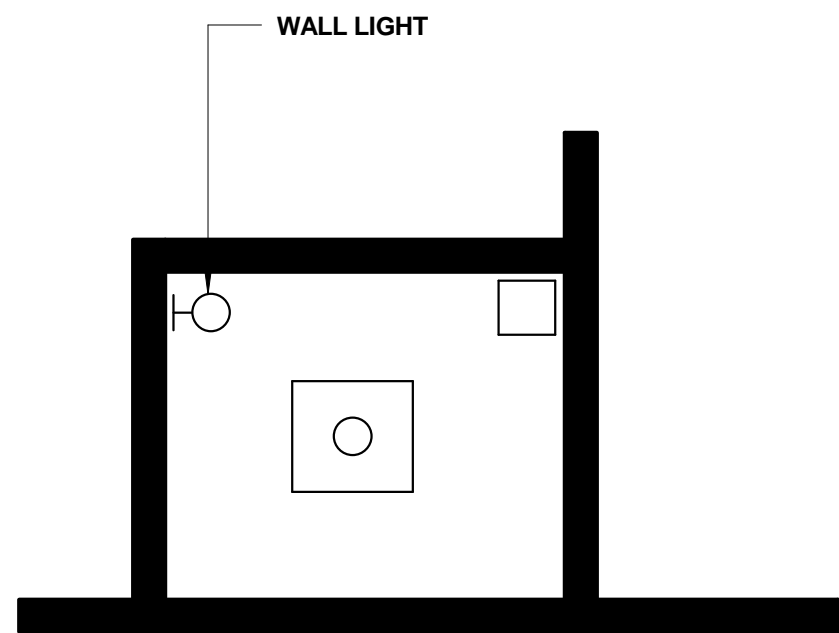
4 ENLARGED VIEW - SIGN
3/8" = 1'-0"



6 3D VIEW - NEW SIGN



5 ELEVATION - 1 - SIGN
3/8" = 1'-0"



7 ENLARGED VIEW - ELEVATOR PIT
1/4" = 1'-0"

EM ARCHITECTS

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ARCHITECT:

CONSULTANT:

CERTIFIED BY:

REVISION / DATE / DESCRIPTION

PROJECT
MEJORAS A PLAZA DEL MERCADO
NAGUABO, PUERTO RICO

SCALE
As indicated

DRAWN BY:
Author

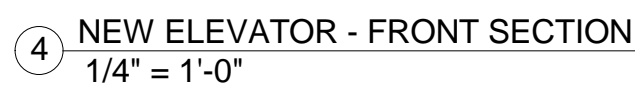
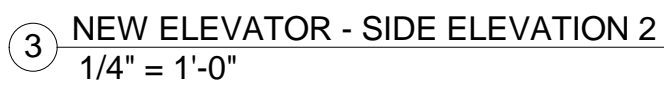
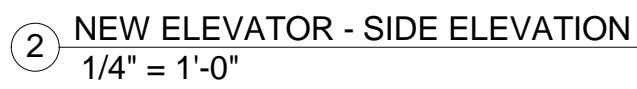
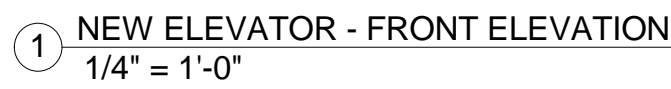
ENLARGED VIEW
PLAN - MAIN
ENTRANCE

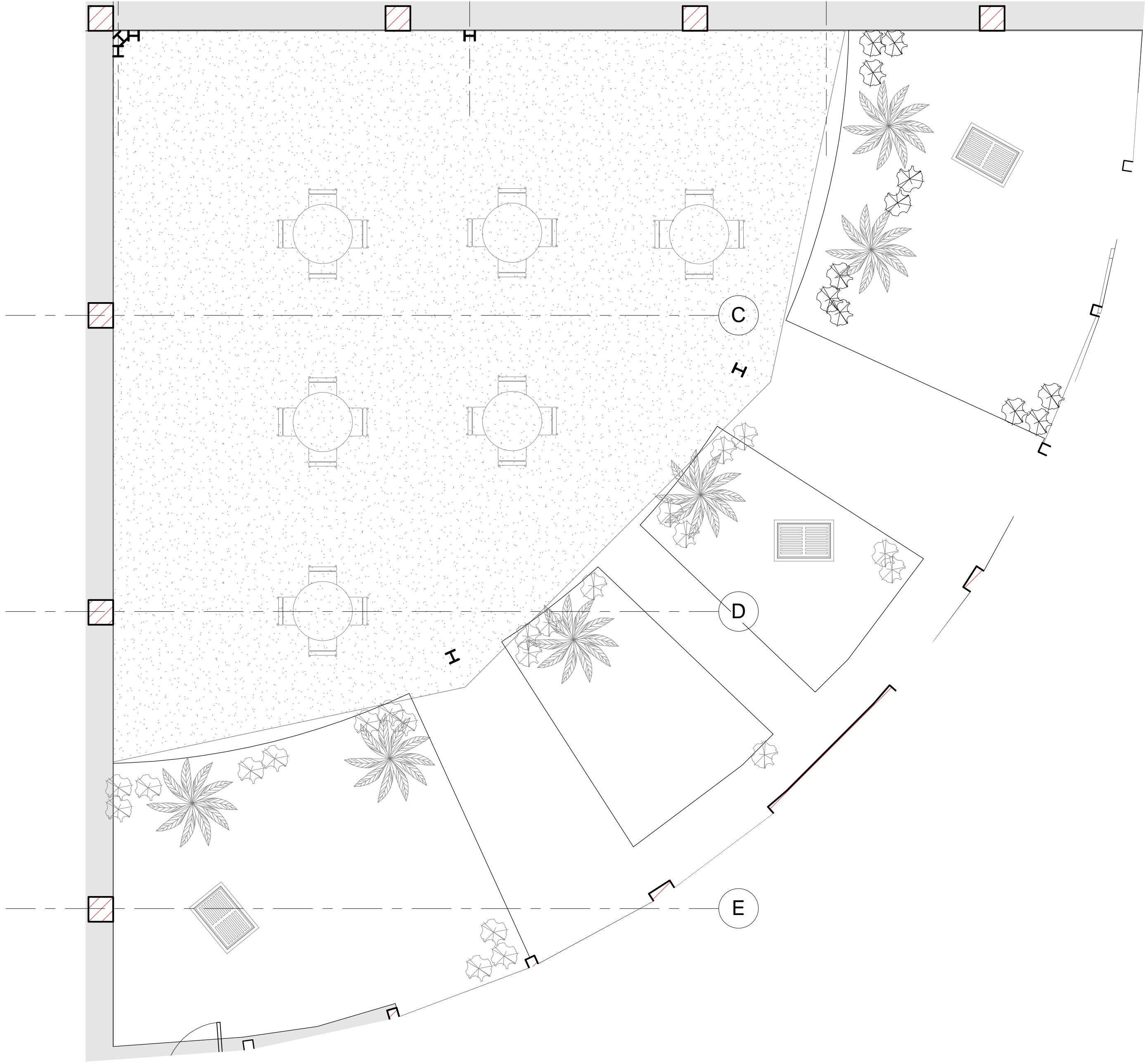
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SHEET

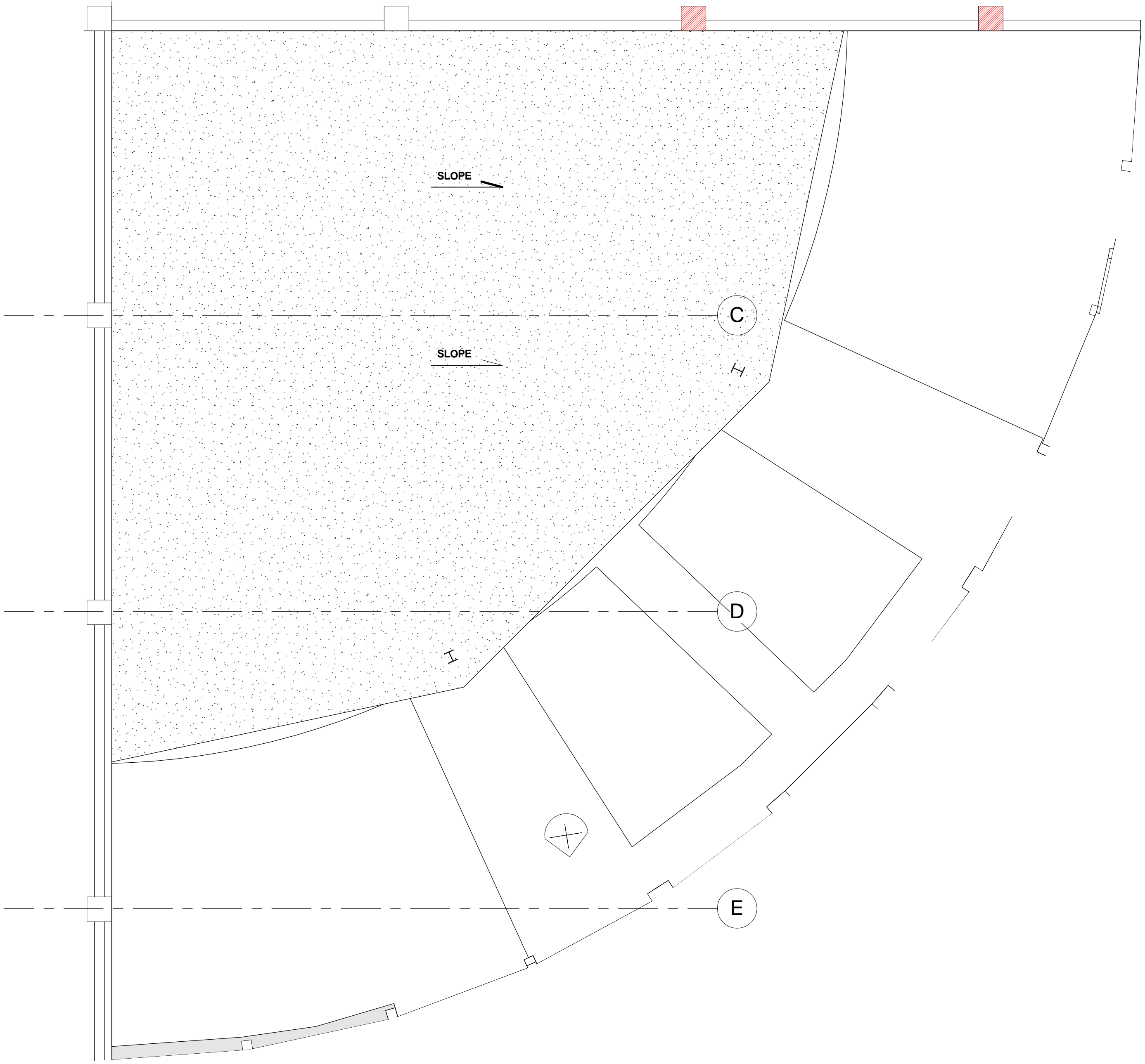
A501

9/14/2022 9:01:56 AM





ENLARGED VIEW - COURTYARD FLOOR
PLAN
1 1/4" = 1'-0"



ENLARGED VIEW - COURTYARD ROOF
PLAN
2 1/4" = 1'-0"

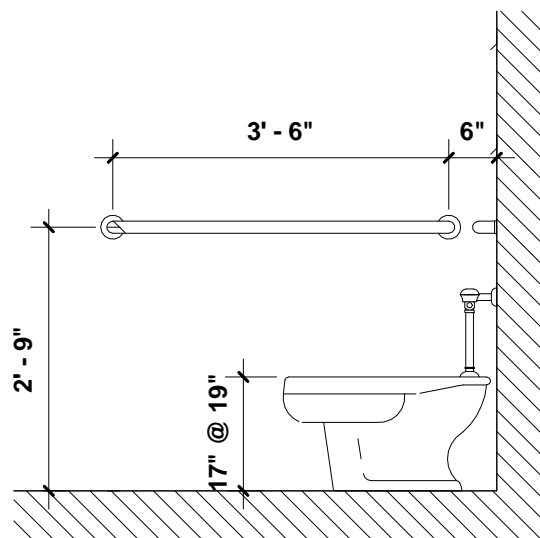
FIXTURE & ACCESORY SCHEDULE				
ITEM	DESCRIPTION	MANUFACTURER / MODEL	QUANTITY	NOTES
1	TOILET	AMERICAN STANDARD MODEL 3378.128	6	
2	URINAL	AMERICAN STANDARD MODEL MAYBROOK 6581.015	1	
3	LAVATORY	AMERICAN STANDARD MODEL 9024.004EC	5	FAUCET - AMERICAN STANDARD MODEL MONTERREY 7500.175
4	LAVATORY	AMERICAN STANDARD MODEL 124.024	1	FAUCET - AMERICAN STANDARD MODEL MONTERREY 7500.175
5	MIRROR	BOBRICK BOB290-1830	4	
6	MIRROR - ADA	BOBRICK BOB293-1830	1	
7	GRAB BAR 36"	BOBRICK B-5806 x 36 36"	2	
8	GRAB BAR 42"	B-5806 x 42	2	
9	SOAP DISPENSER	BOBRICK B2111	29	
10	PARTITION	BOBRICK DURALINE SERIES MODEL 1182		OVERHEAD BRACING MOUNTING CONFIGURATION AT 85" A.F.F. / "BRUSHED ALUMINUM 0328 FH (SUBMIT SHOP DWG)
11	TOILET PAPER DISPENSER	BOBRICK B7685	6	
12	TRASH RECEPTACLE	BOBRICK B277	6	

NOTES:

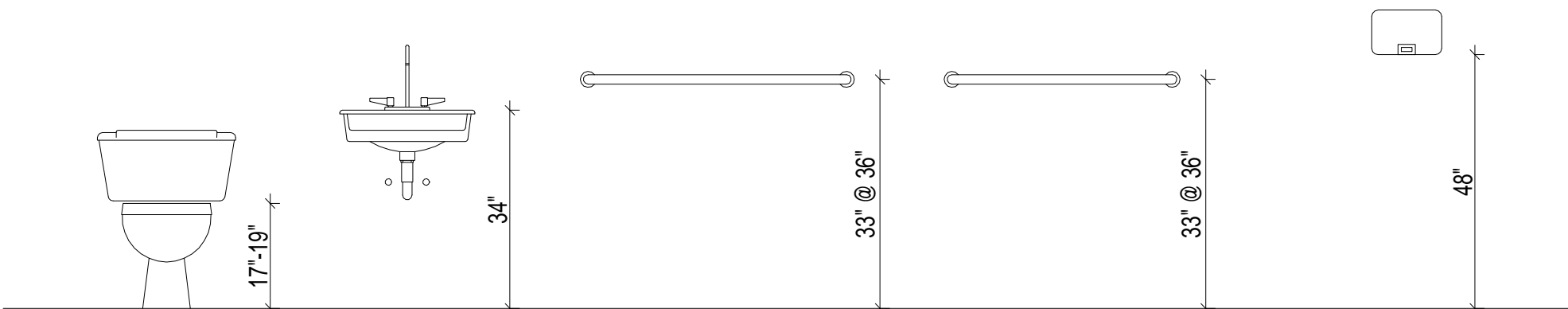
- THE GENERAL CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE ARCHITECTS APPROVAL FOR ALL THE EQUIPMENT LISTED ABOVE.

- SUBSTITUTIONS MUST BE EQUAL OR SIMILAR. THE GENERAL CONTRACTOR SHALL FURNISH A TABLE COMPARING THE ITEM SPECIFIED VERSUS THE SUBSTITUTION FOR CONSIDERATION. PLEASE REFER TO THE GENERAL CONDITIONS.

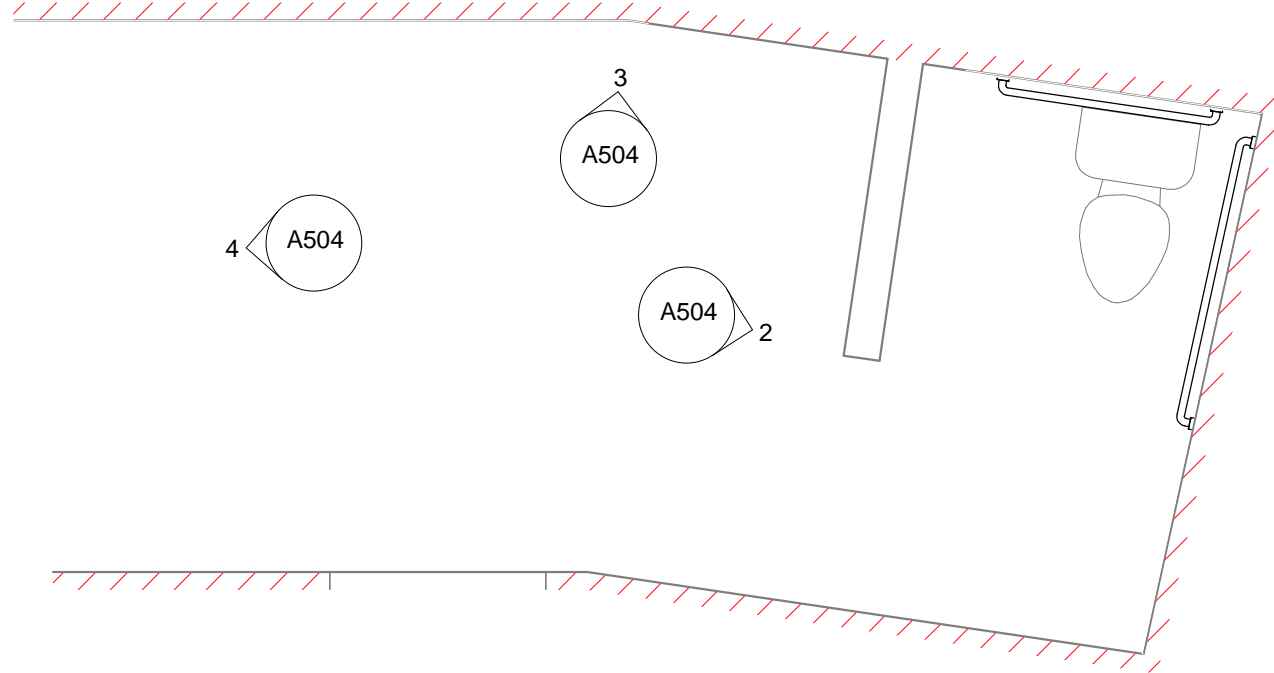
-ALL ITEMS SHALL COMPLY WITH THE BUY AMERICAN ACT



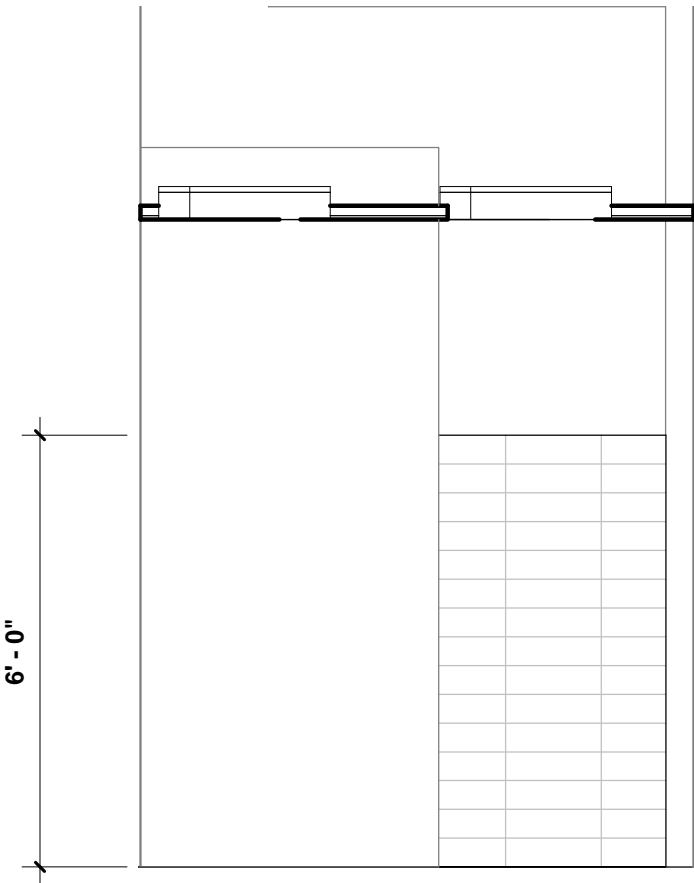
11 GRAB BAR DETAIL
1/2" = 1'-0"



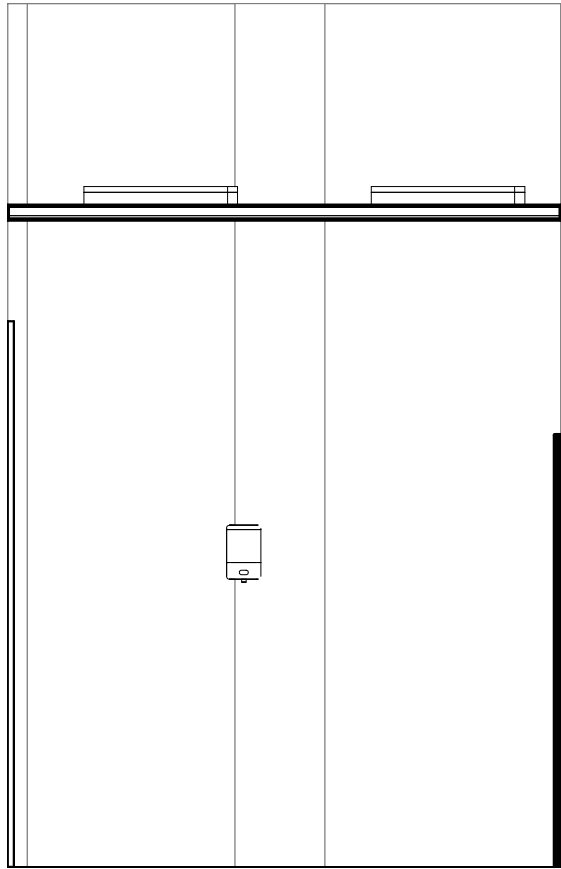
5 BATHROOM EQUIPMENT INSTALL
HEIGHTS
1/2" = 1'-0"



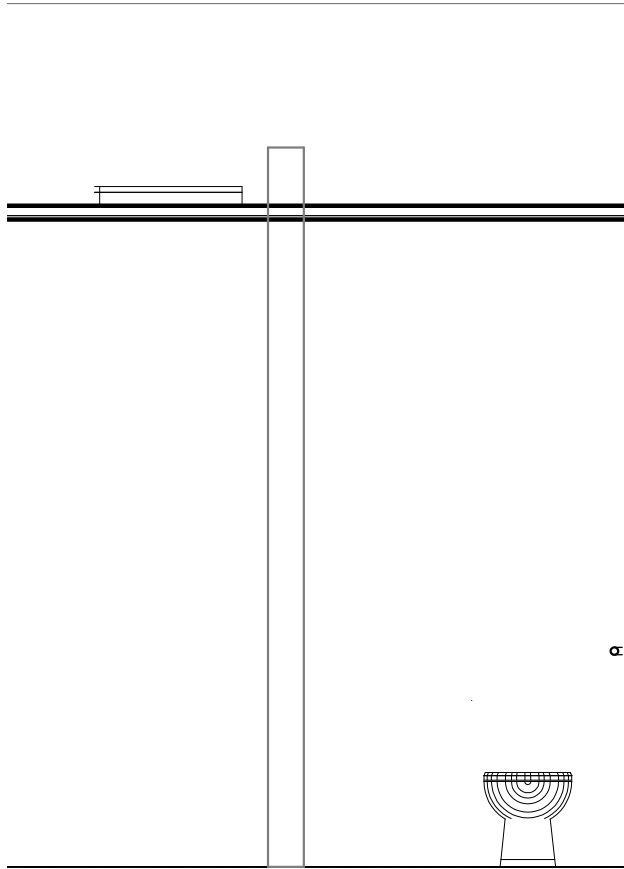
1 ENLARGED VIEW - M/BATH 1ST LEVEL
3/8" = 1'-0"



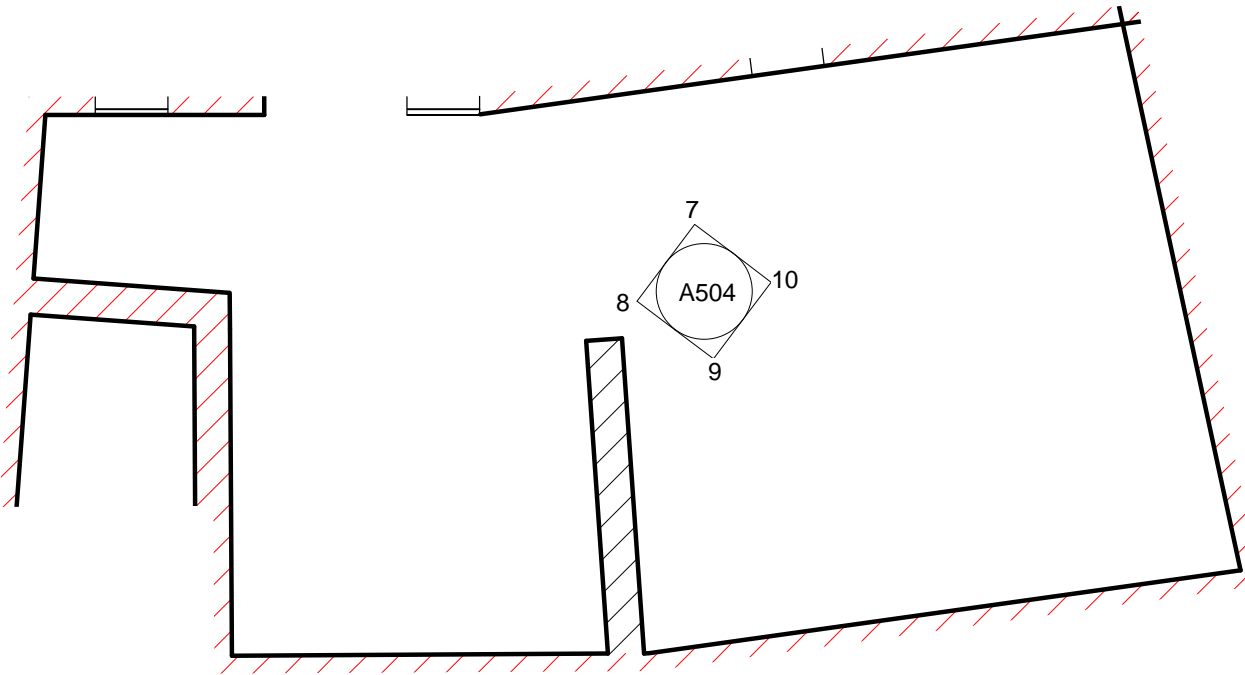
2 ELEVATION 1 - M/BATH - ENLARGED
VIEW
3/8" = 1'-0"



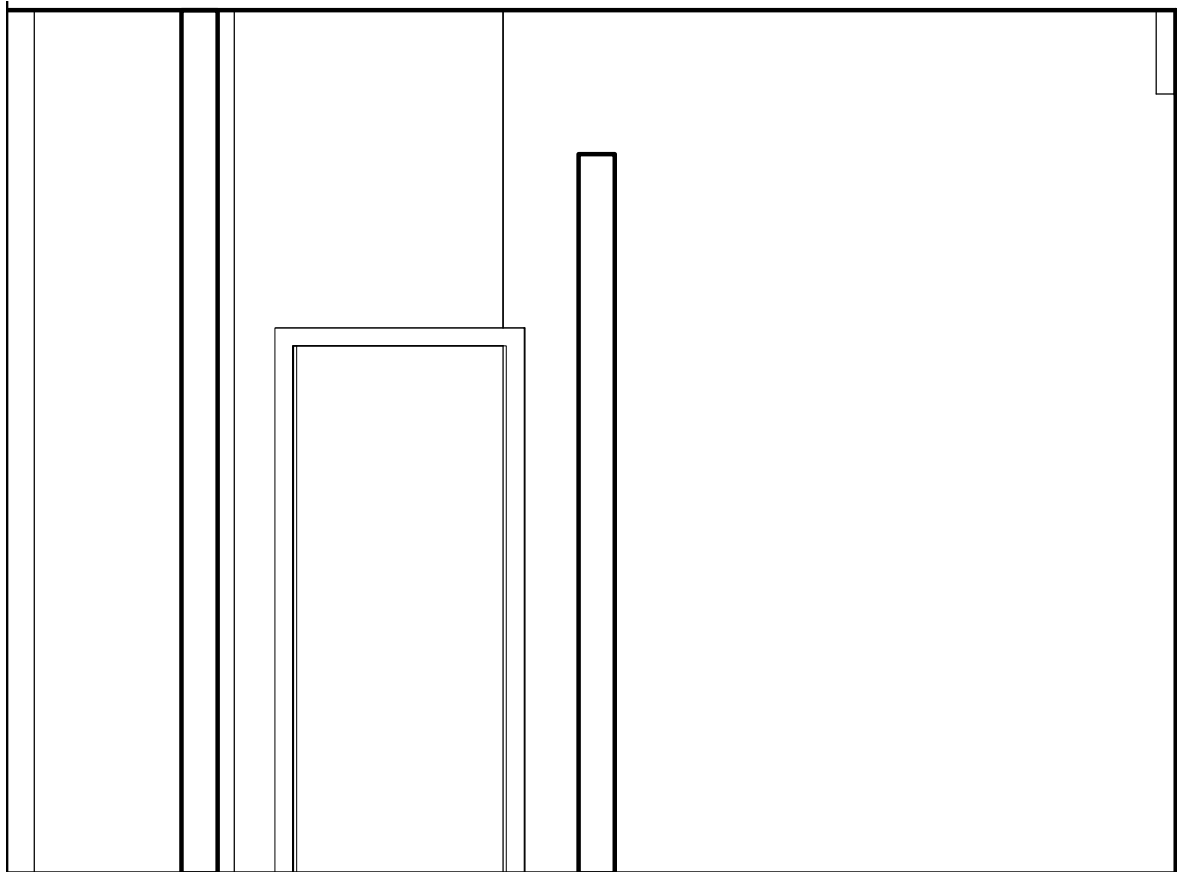
4 ELEVATION 3 - M/BATH - ENLARGED
VIEW
3/8" = 1'-0"



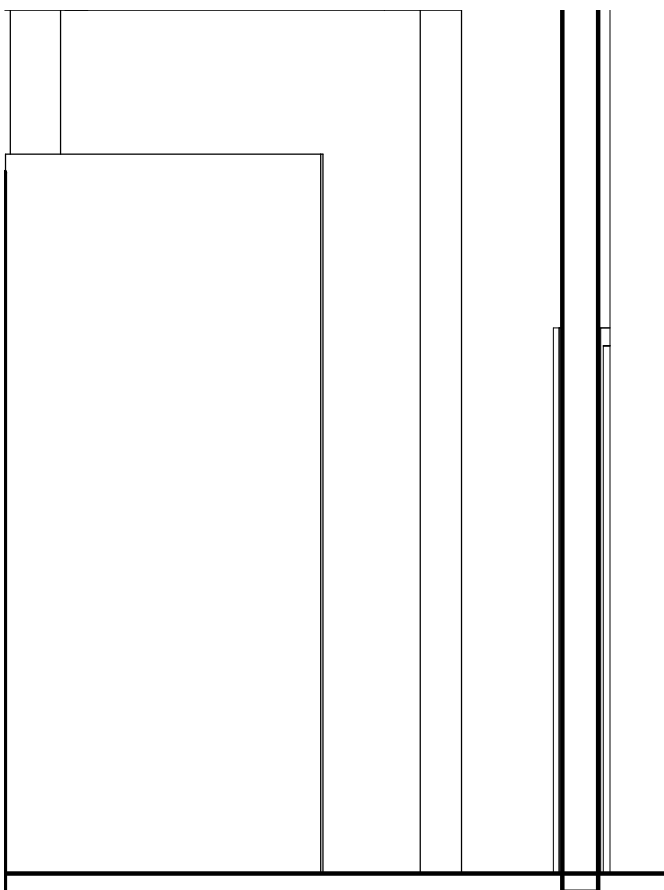
3 ELEVATION 2 - M/BATH - ENLARGED
VIEW
3/8" = 1'-0"



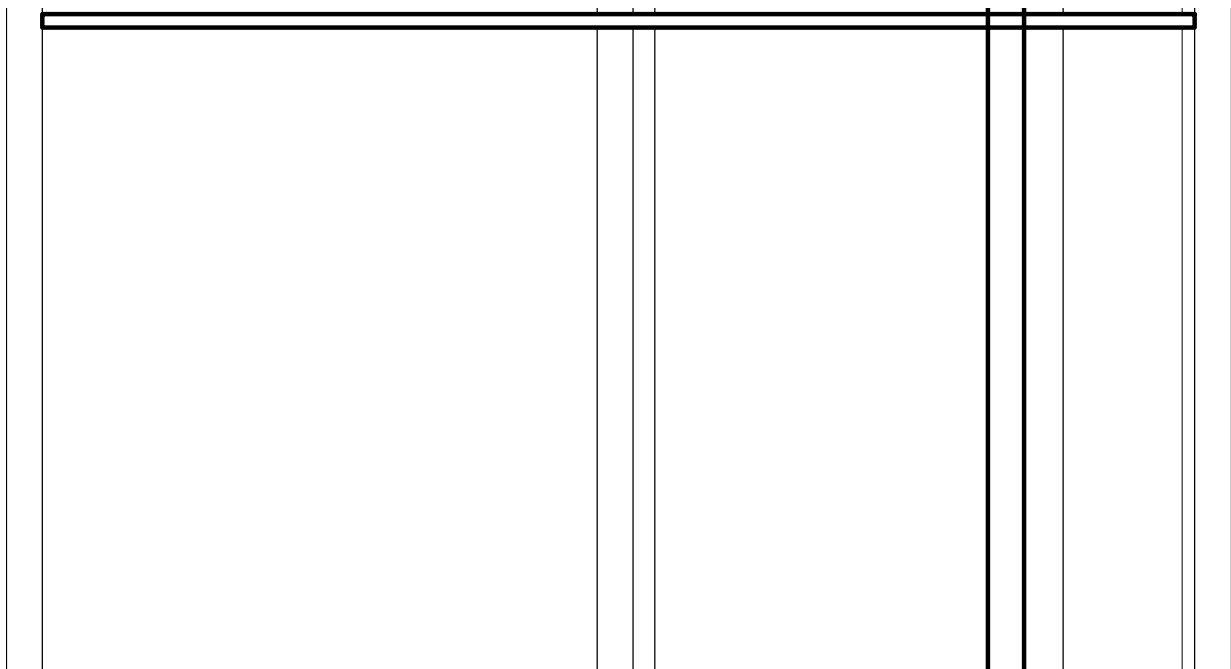
6 ENLARGED VIEW - W/BATH 1ST LEVEL
3/8" = 1'-0"



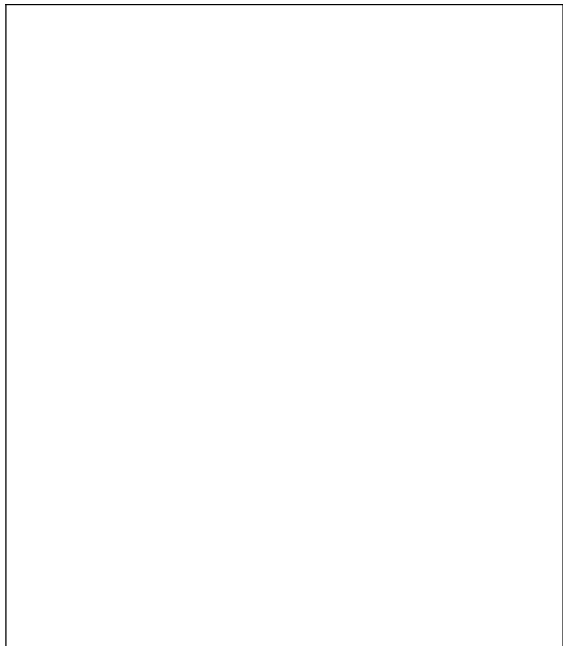
7 ELEVATION 1 - W/BATH - ENLARGED
VIEW
3/8" = 1'-0"



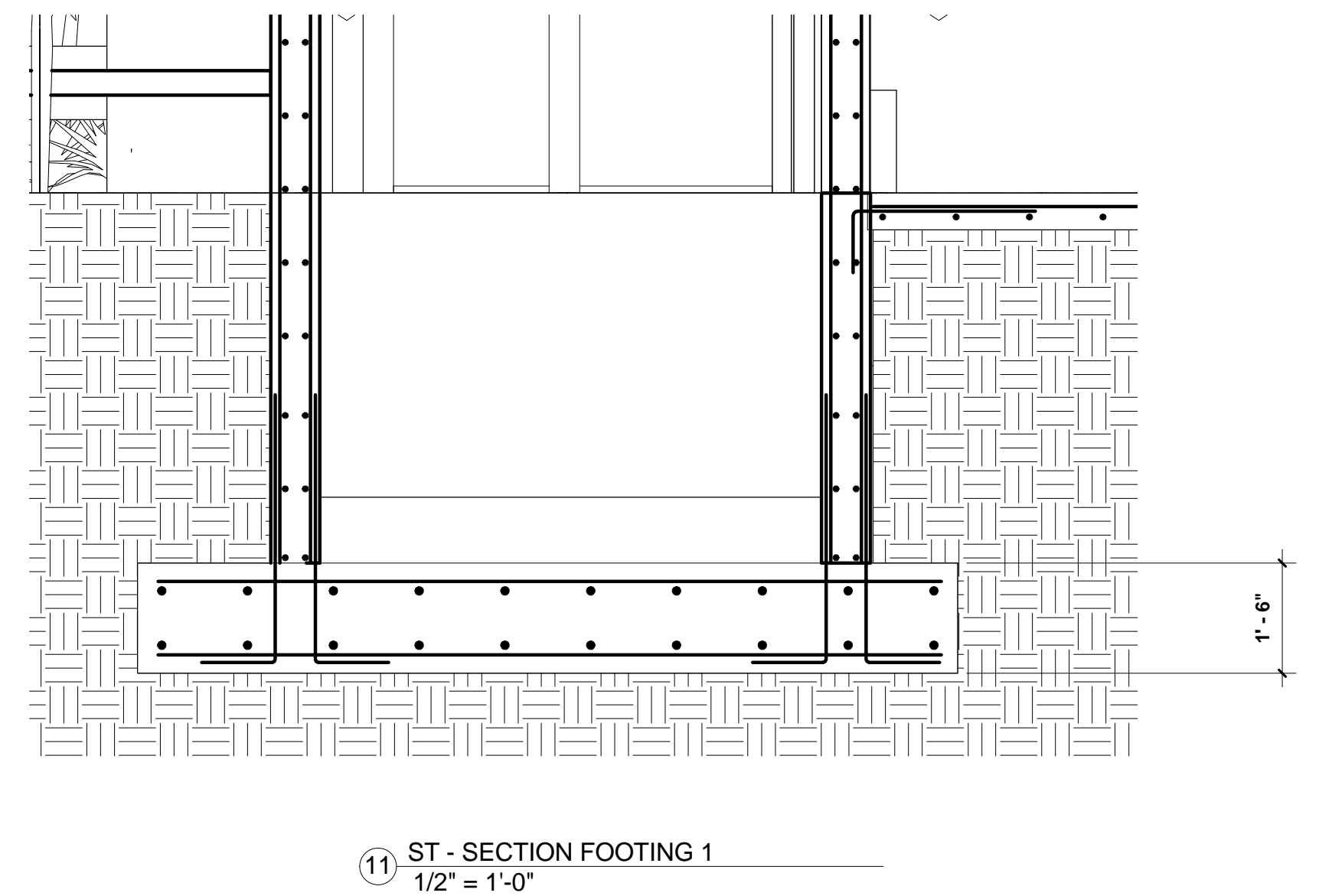
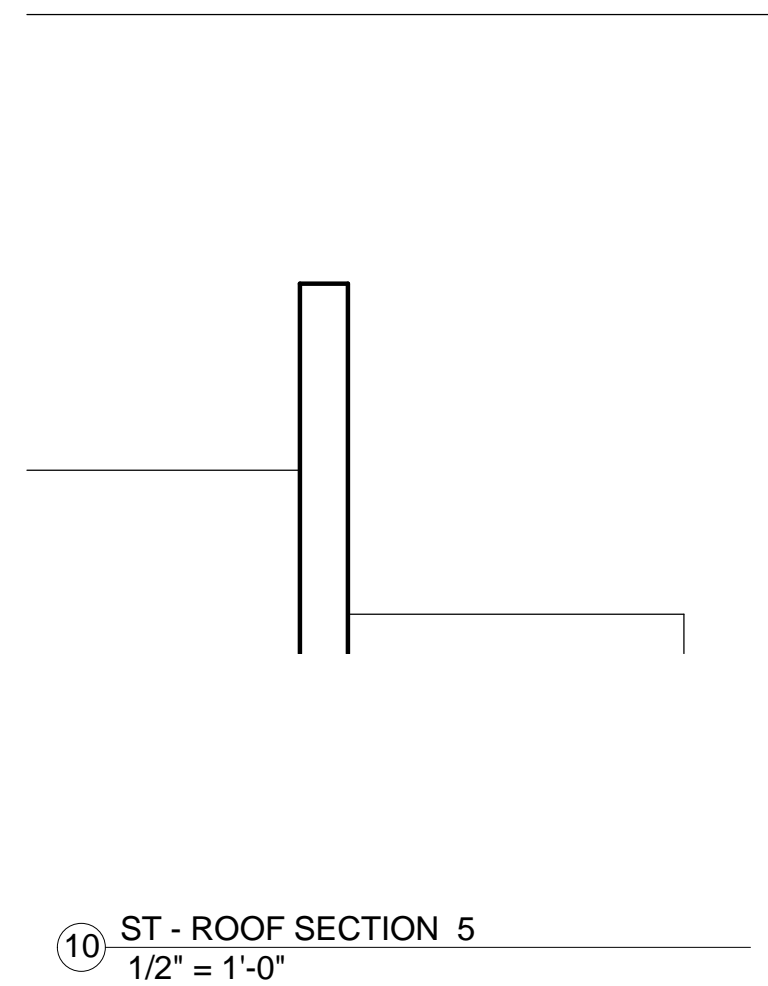
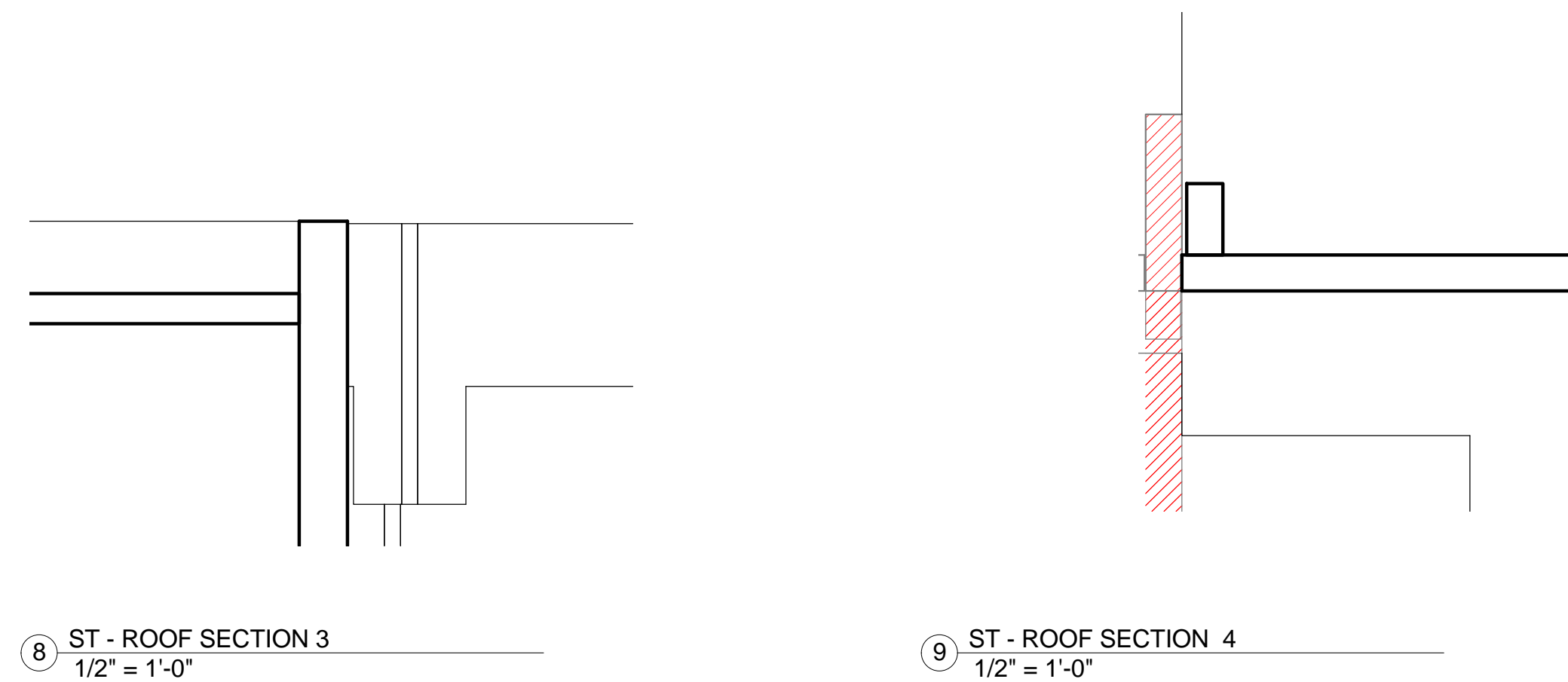
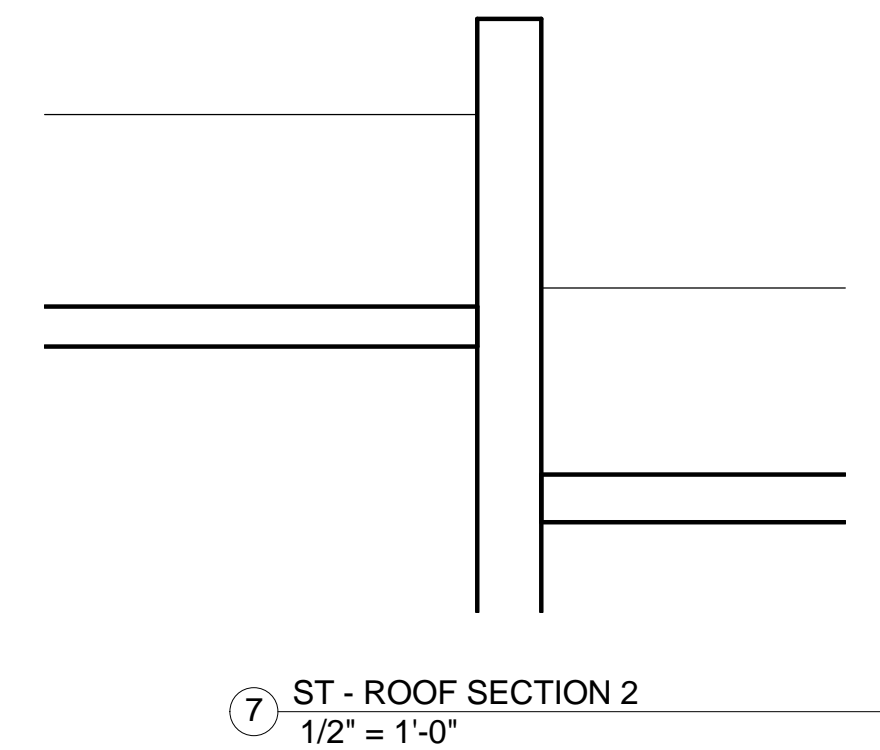
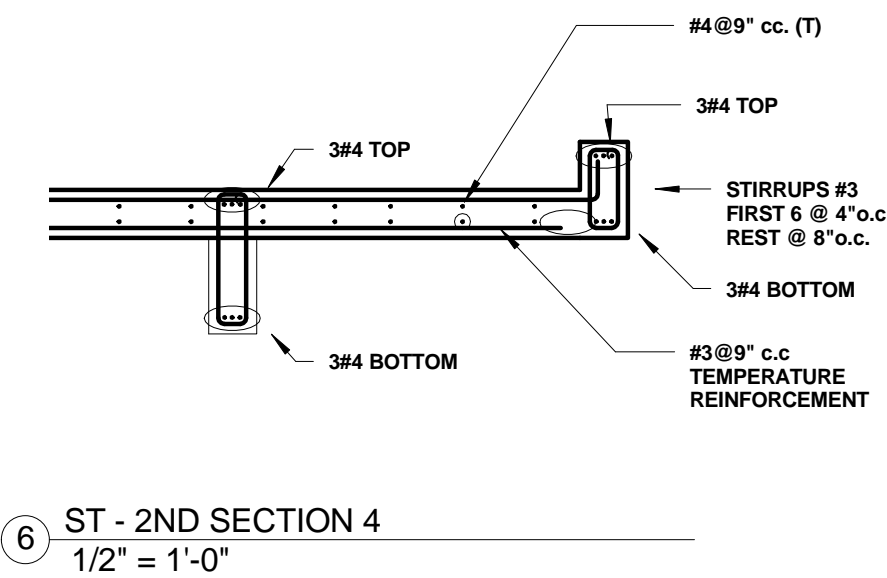
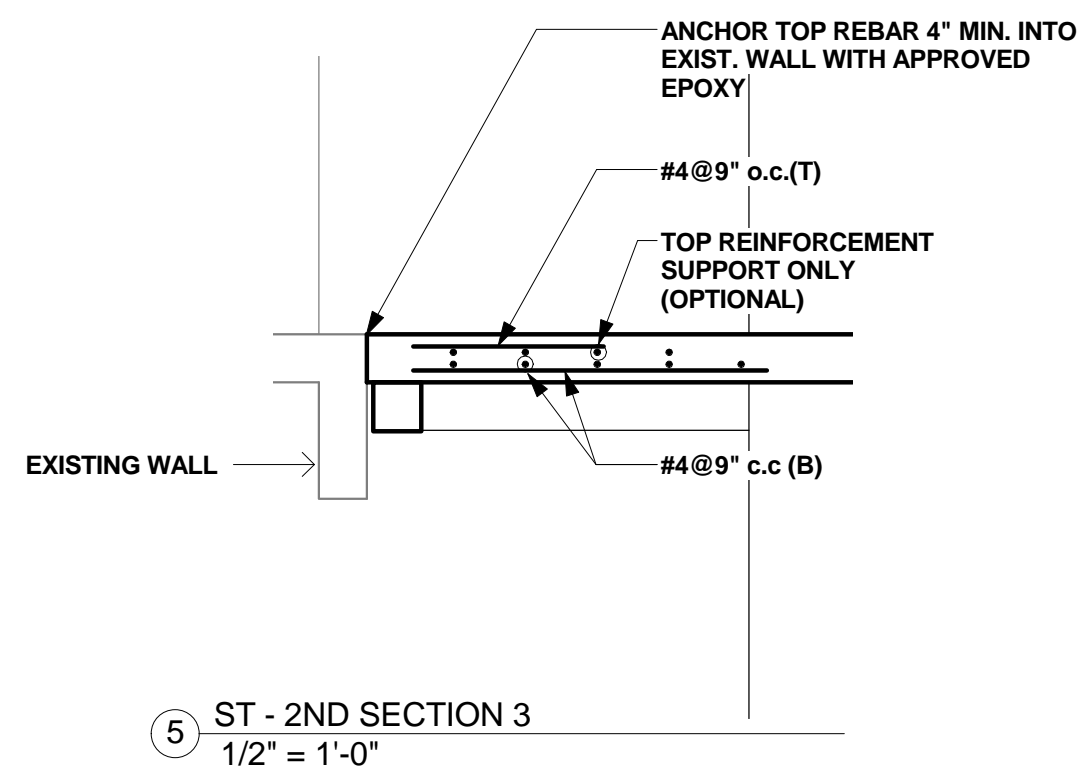
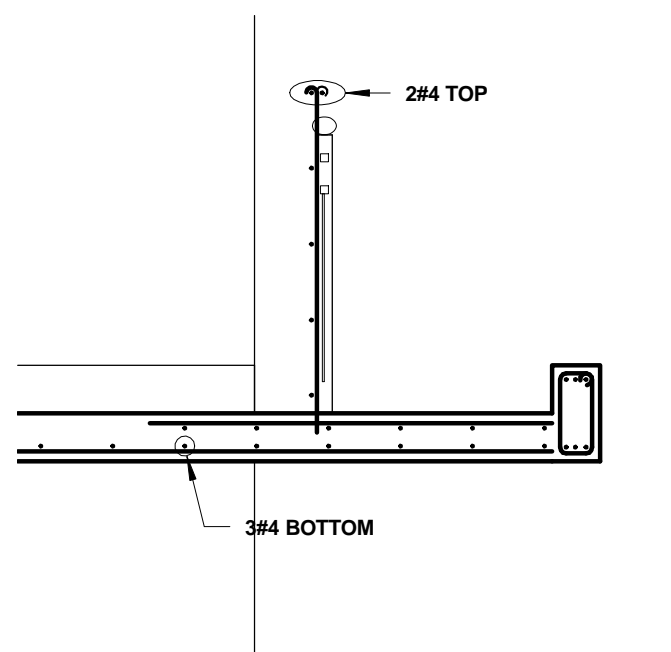
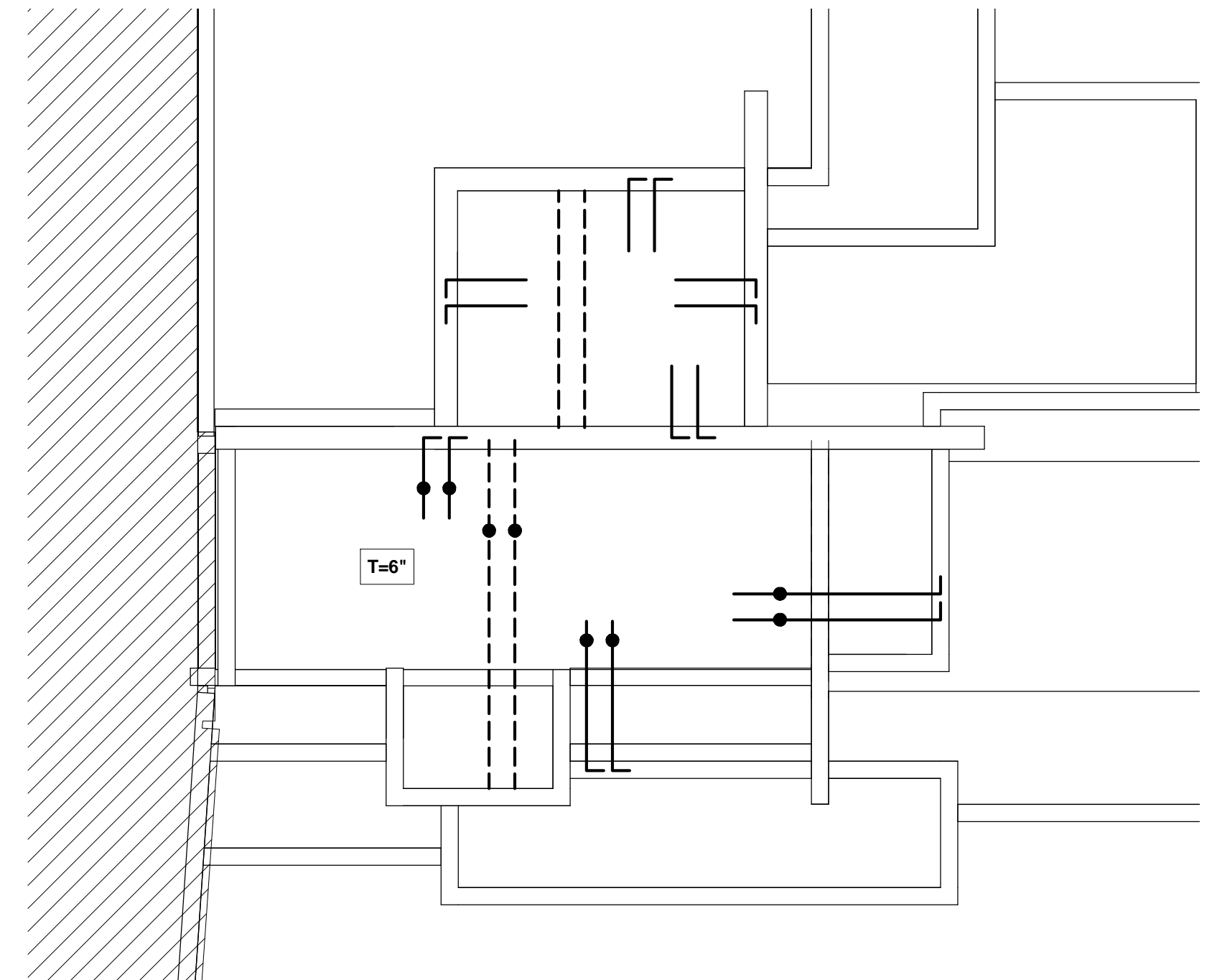
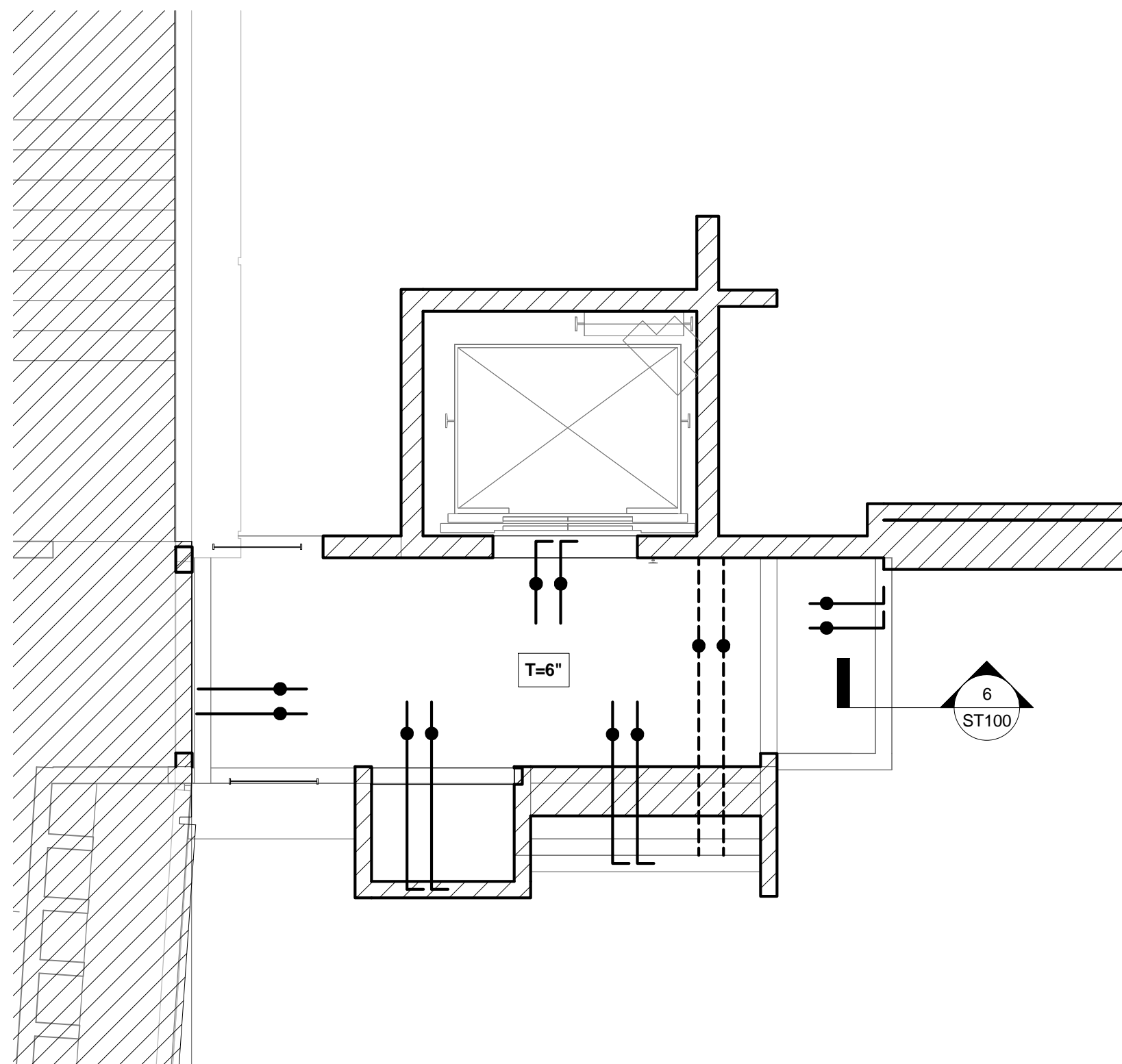
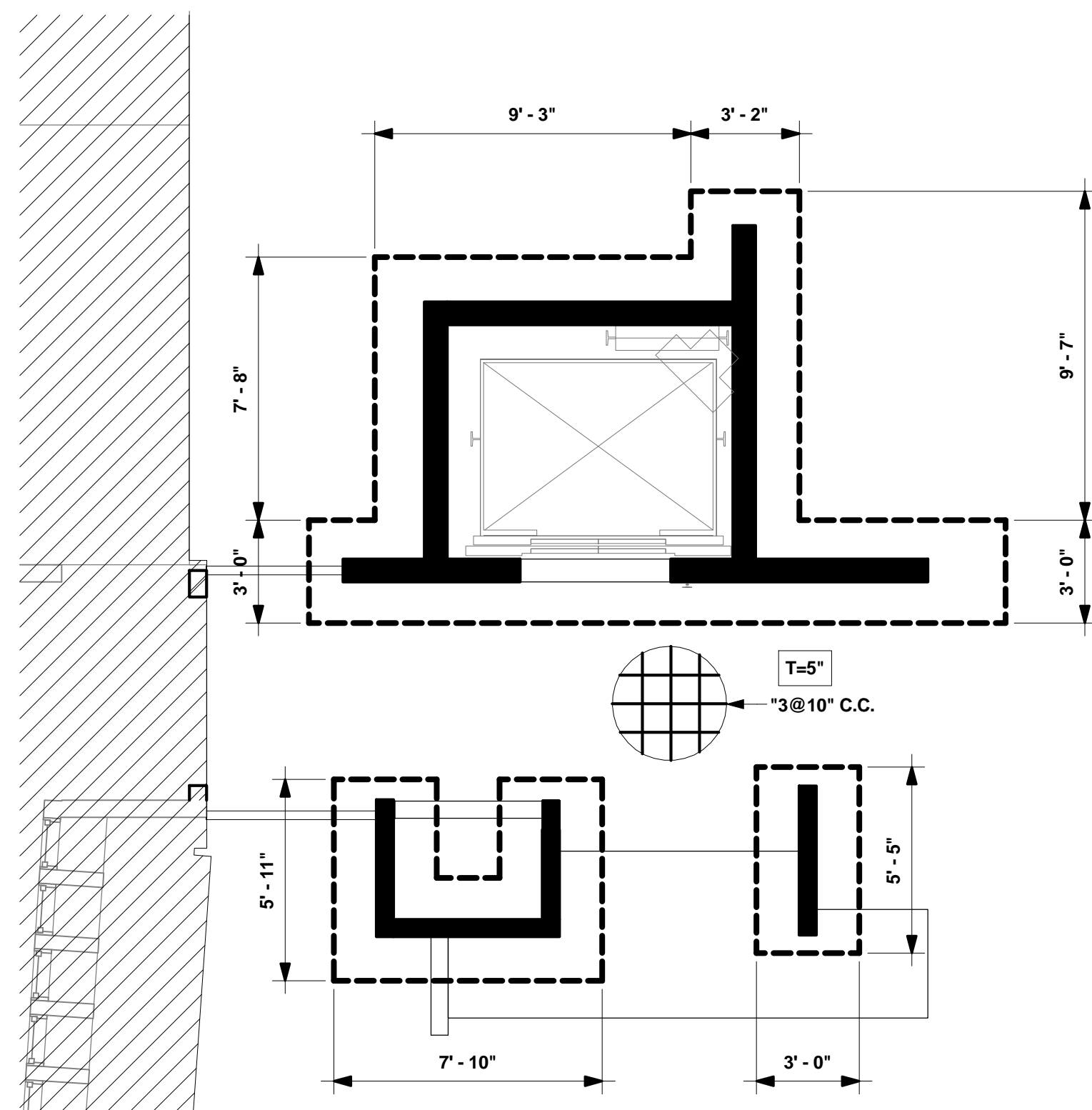
8 ELEVATION 2 - W/BATH - ENLARGED
VIEW
3/8" = 1'-0"



9 ELEVATION 3 - W/BATH - ENLARGED
VIEW
3/8" = 1'-0"



10 ELEVATION 4 - W/BATH - ENLARGED
VIEW
3/8" = 1'-0"



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CONSULTANT:

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CLIENT
MUNICIPIO DE NAGUABO

PROJECT #:

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

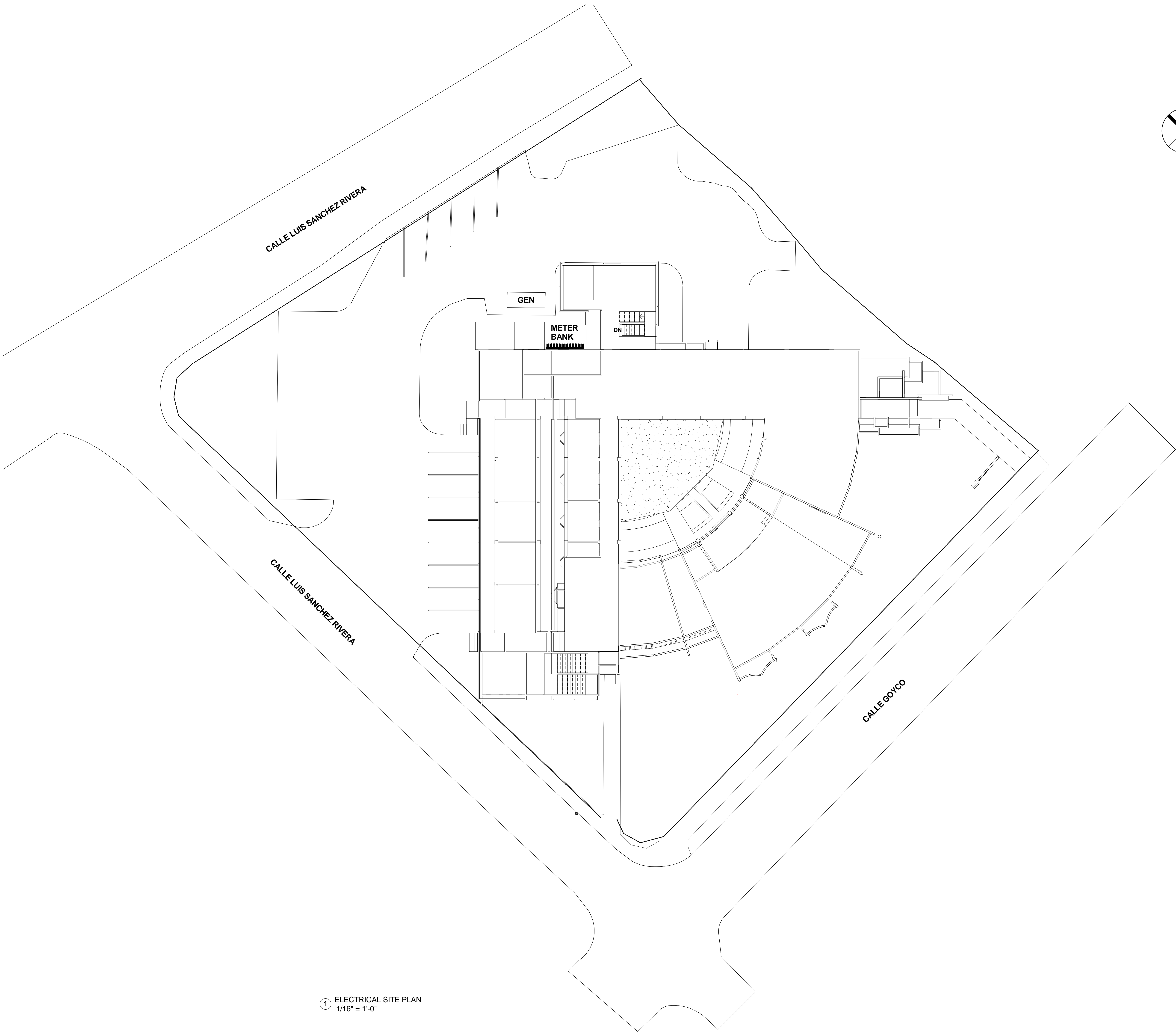
DRAWN BY: Author

METER BANK

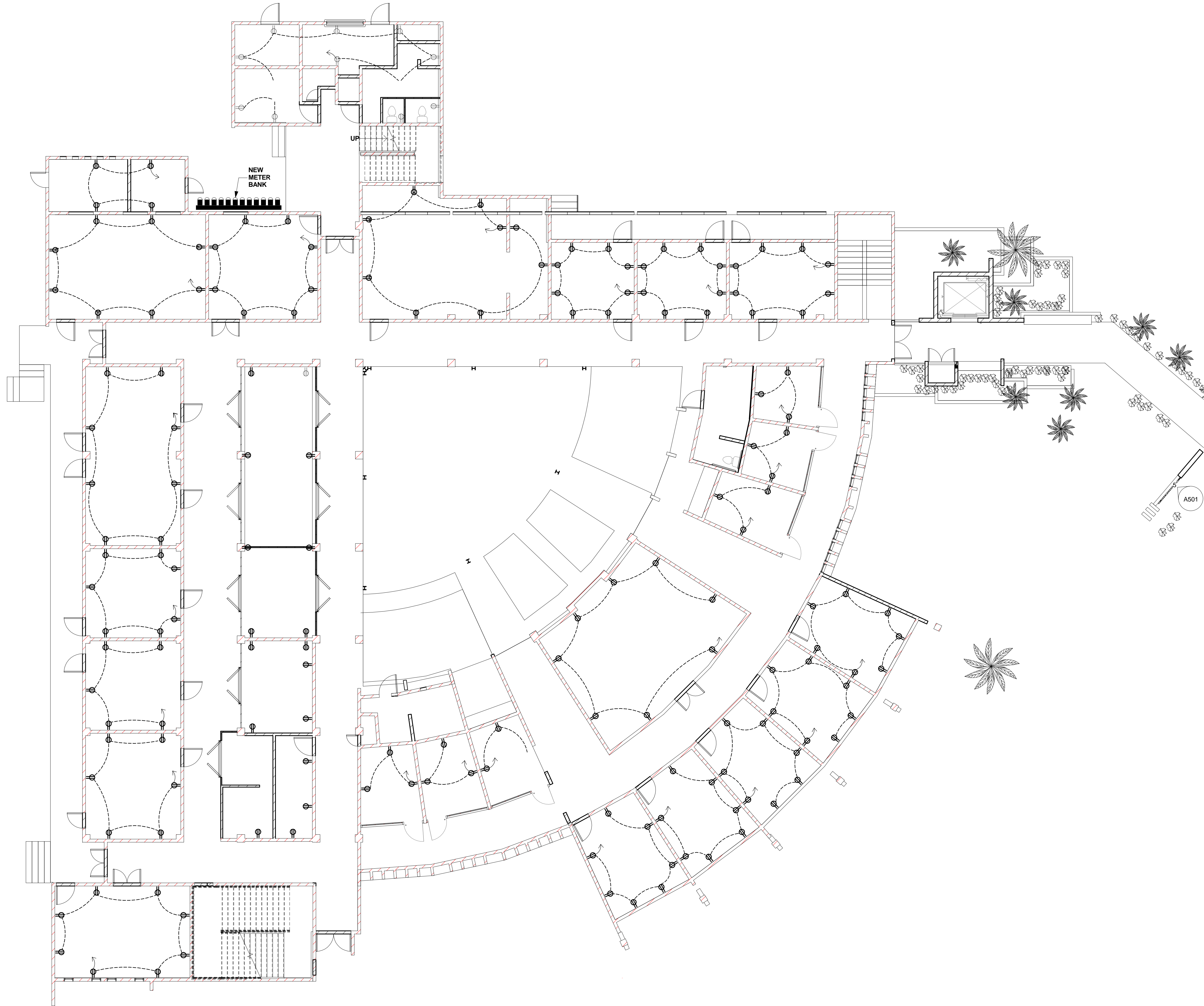
TITLE

SE-101

SHEET



① ELECTRICAL SITE PLAN
1/16" = 1'-0"



POWER AND TELECOMM PLAN (1ST LEVEL)
1/8" = 1'-0"

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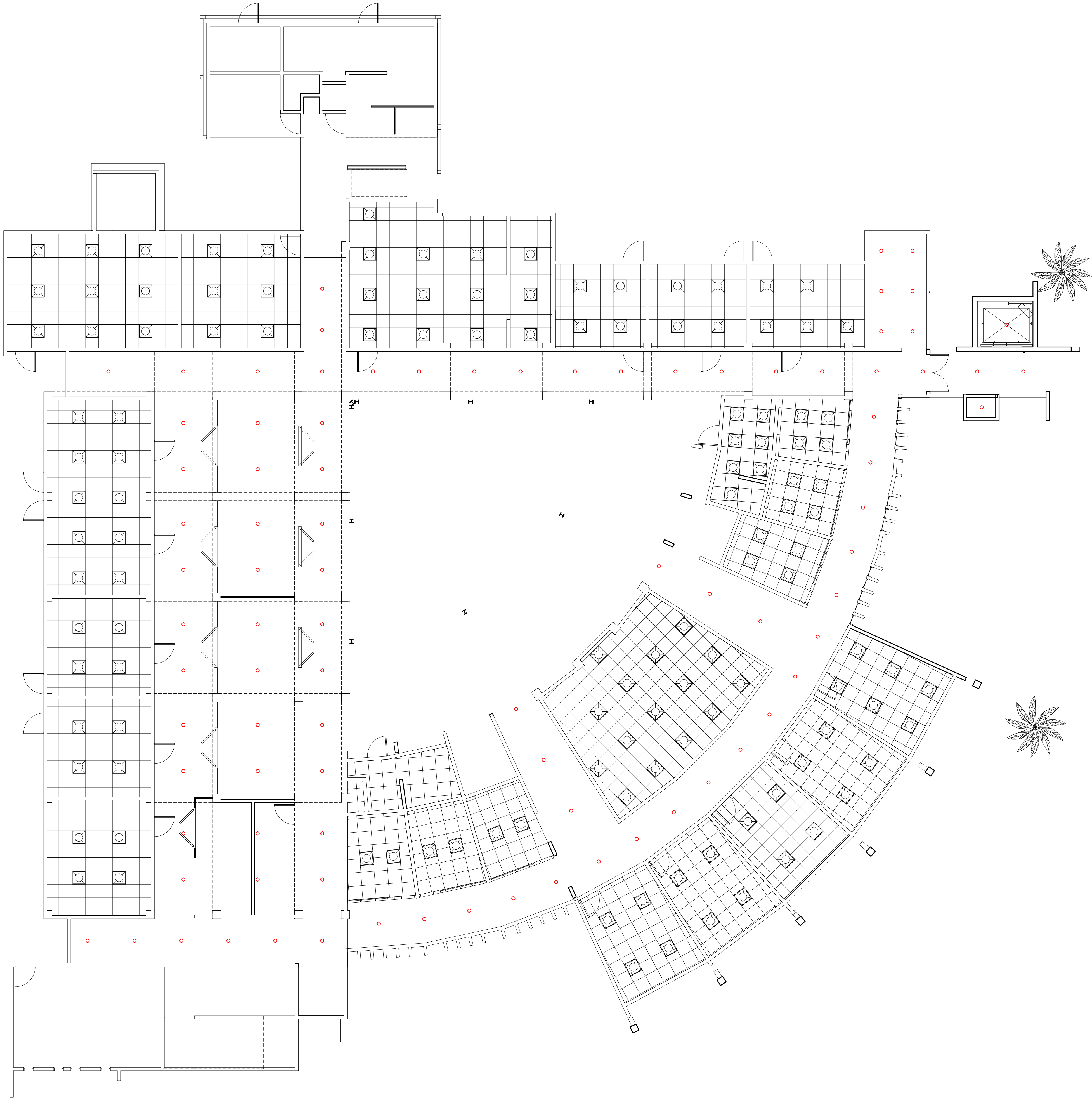
SCALE: 1/8" = 1'-0"

DRAWN BY: Author

POWER AND TELECOMM PLAN

TITLE
E101

SHEET



PROPOSED REFLETED CEILING - 1ST
LEVEL
① 1/8" = 1'-0"

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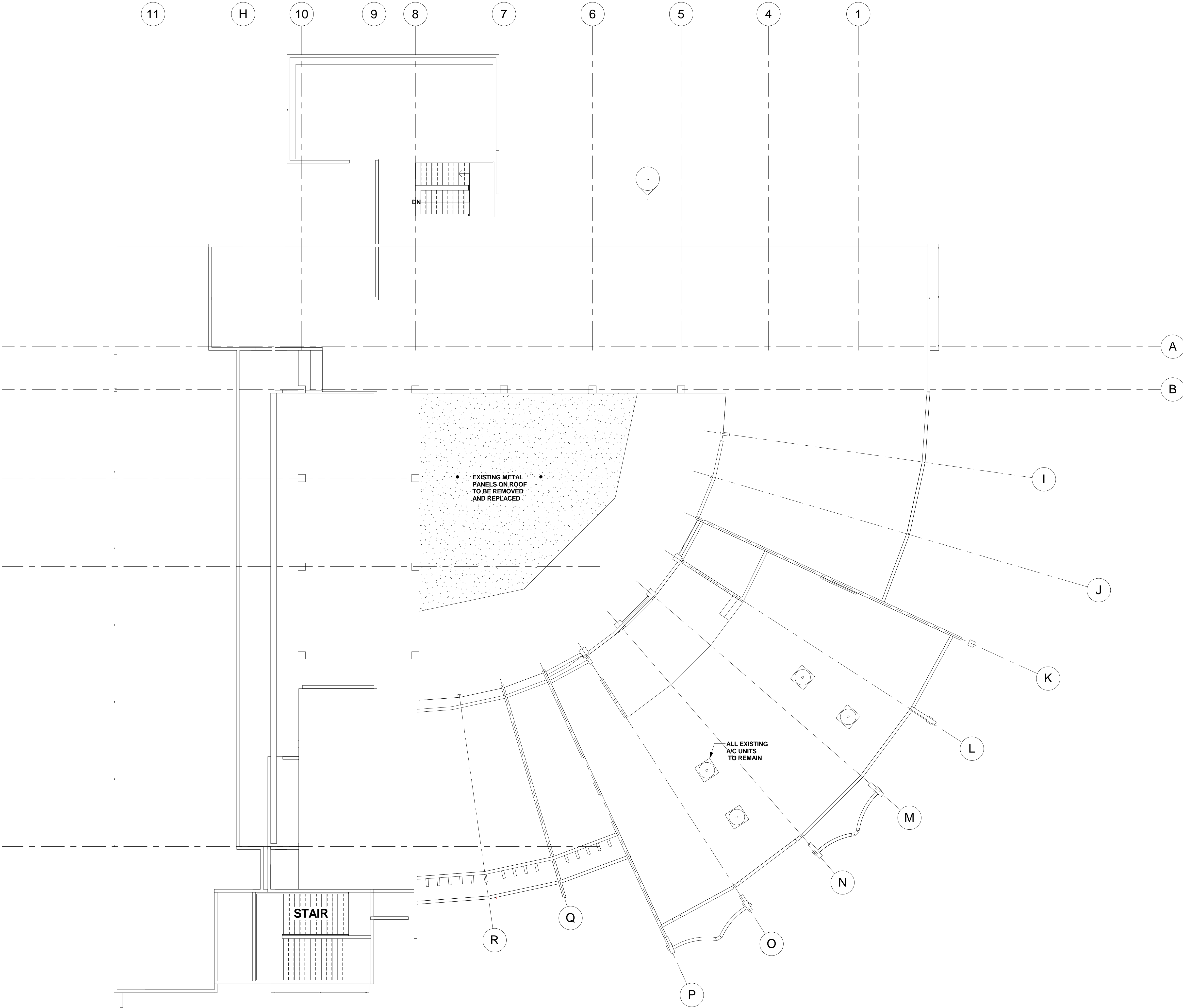
SCALE: 1/8" = 1'-0"

DRAWN BY: Author

LIGHTING PLAN

TITLE
E102

SHEET



1 EXISTING ROOF PLAN
1/8" = 1'-0"

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CLIENT
MUNICIPIO DE NAGUABO

PROJECT #:

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

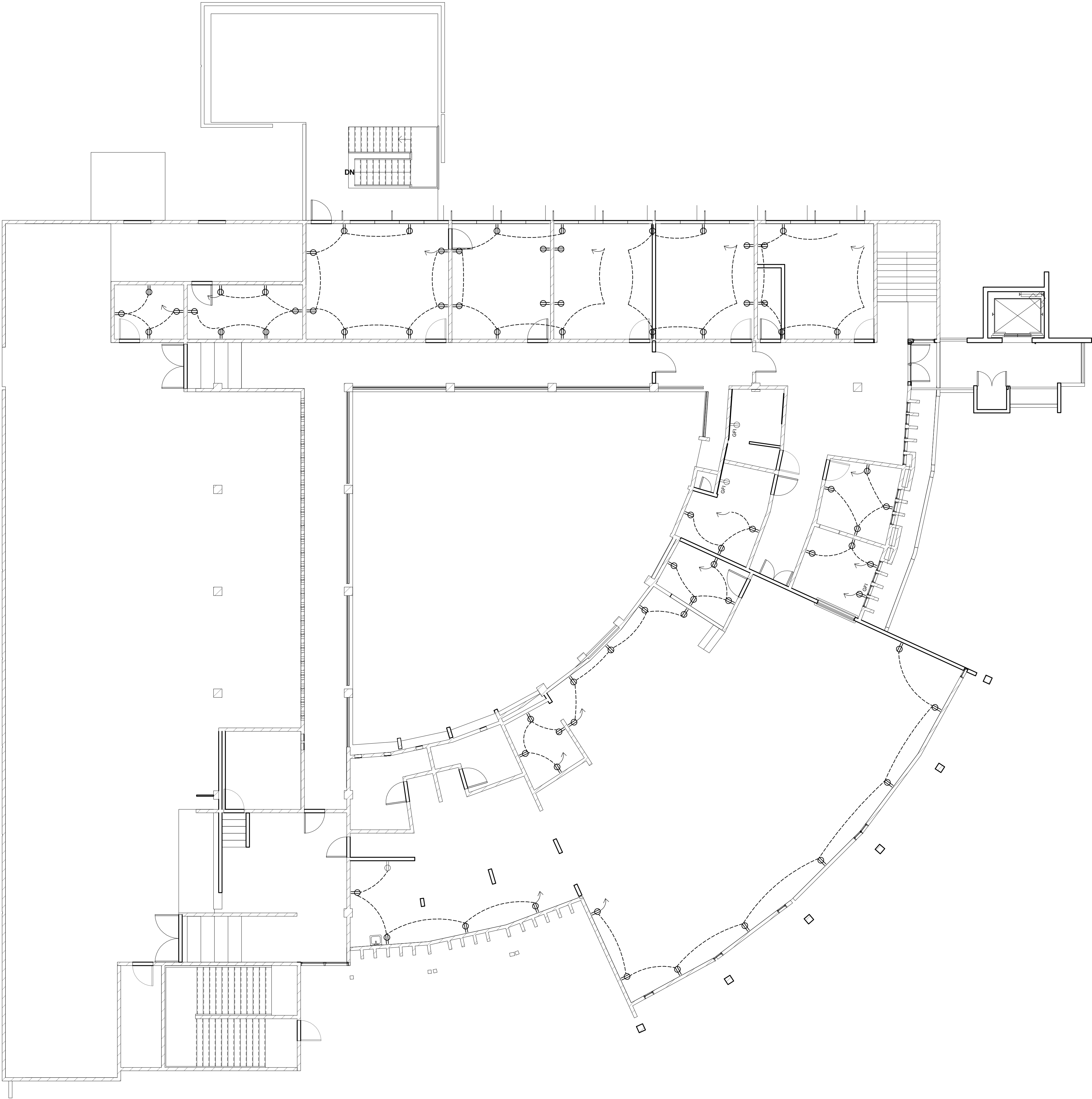
DRAWN BY: Author

EXISTING ROOF PLAN

TITLE

EX103

SHEET



POWER AND TELECOMM PLAN (2ND LEVEL)
1 1/8" = 1'-0"

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PROJECT #:
SCALE: 1/8" = 1'-0"
DRAWN BY: Author

POWER AND TELECOMM PLAN

TITLE
E201

SHEET

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CLIENT
MUNICIPIO DE NAGUABO

PROJECT #:

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

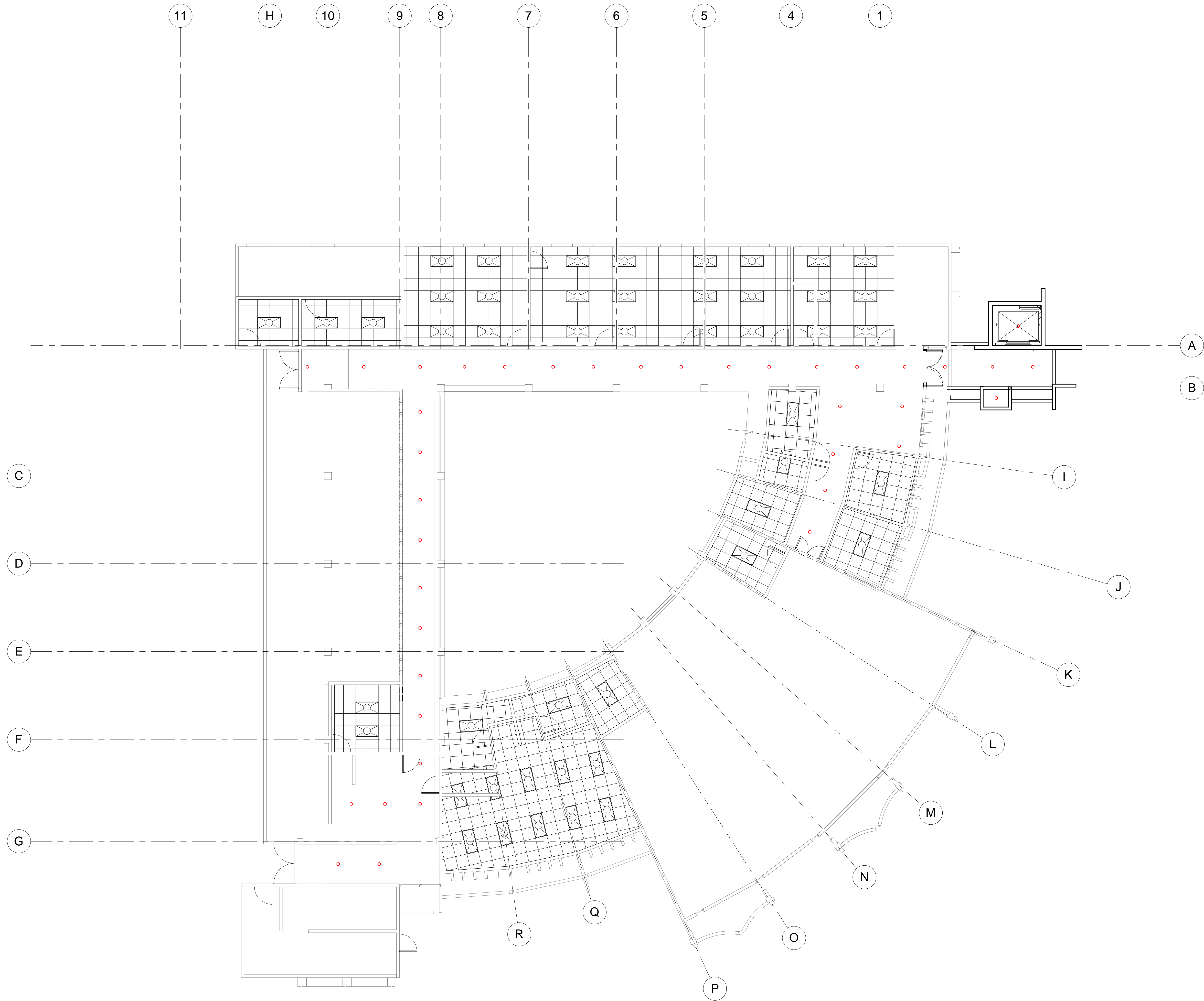
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LIGHTING PLAN

TITLE

E202

SHEET

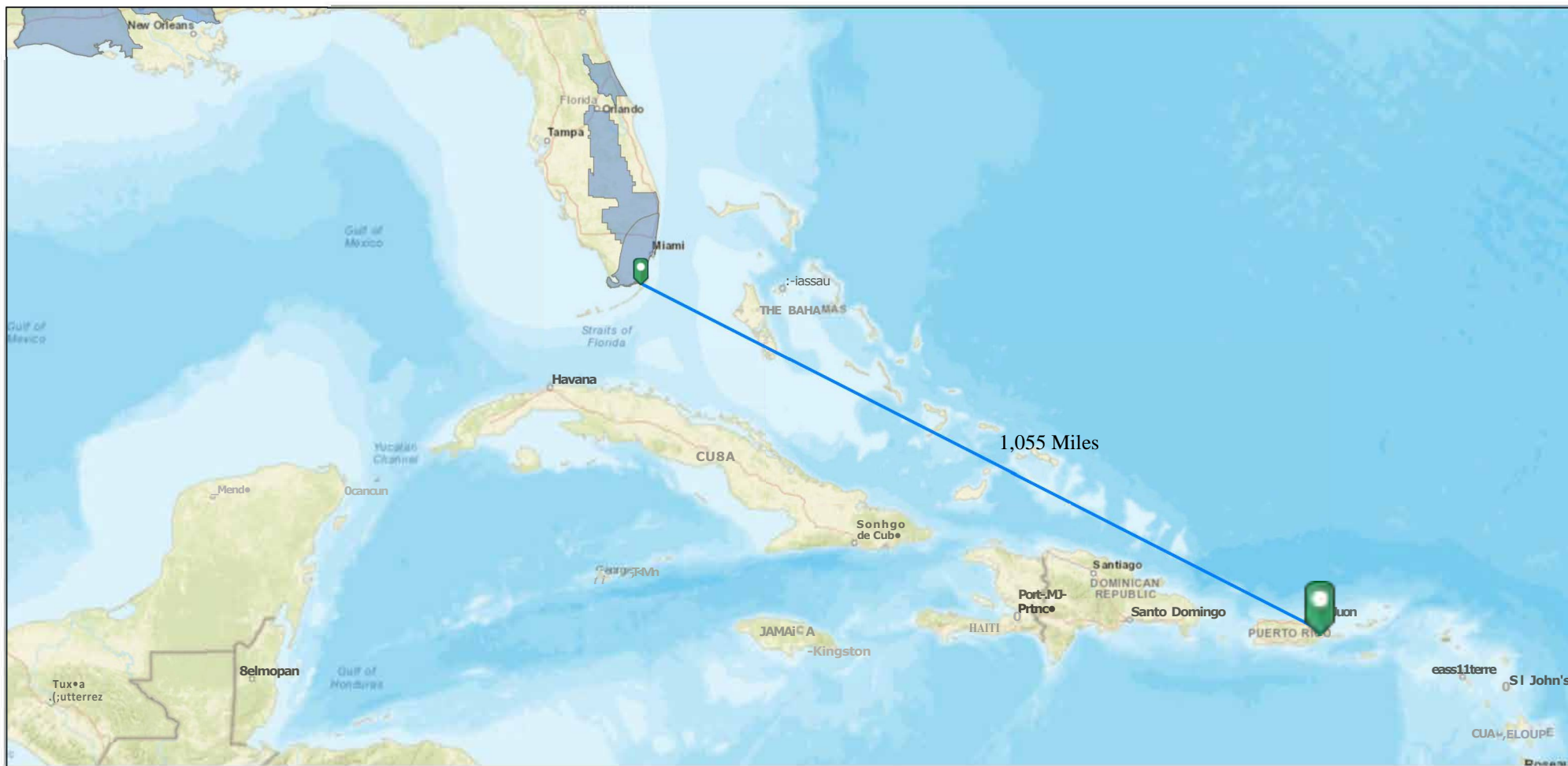


1 REFLECTED CEILING - 2ND FLOOR PLAN
1/8" = 1'-0"


ATTACHMENT M

Sole Source Aquifers

Safe Drinking Water Act of 1974, as amended, particularly section 1424(e); 40 CFR Part 149



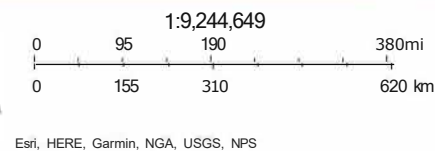
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<https://nepassisttool.epa.gov/nepassist/nepamap.aspx>



PR-CRP-001010





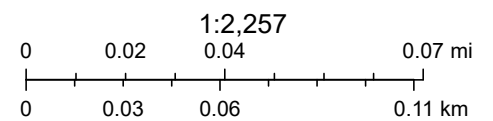
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PR-CRP-001010



<https://epa.maps.arcgis.com/apps/webappviewer/index.html?id=9ebb047ba3ec41ada1877155fe31356b>



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

ATTACHMENT N

Wetlands Protection

Executive Order 11990, particularly sections 2 and 5

Wetlands Protection

Attachment N

Lat: 18.21292823, Lon: -65.73647730



April 16, 2023

Wetlands

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

<https://fwprimary.wim.usgs.gov/wetlands/apps/wetlands-mapper/>

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.



PR-CRP-001010

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

ATTACHMENT O

Wild and Scenic Rivers

Wild and Scenic Rivers Act of 1968, particularly section 7(b) and (c)

Wild and Scenic Rivers

Attachment O

Lat: 18.21292823, Lon: -65.73647730



4/16/2023

 National Wild and Scenic Rivers (Feature Layer) - National Wild and Scenic Rivers

World Imagery

Low Resolution 15m Imagery

High Resolution 60cm Imagery

High Resolution 30cm Imagery

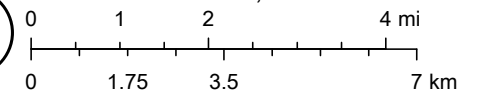
Citations



<https://www.arcgis.com/apps/mapviewer/index.html?panel=gallery&layers=183f02cd2f374c2bb7969bc4d9901ae7>



1:144,448



Earthstar Geographics



PR-CRP-001010