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: Mejoras a la Calle Bosque y a la Calle Lic. A. Ramírez Silva (PR-CRP-000857)

Responsible Entity: Puerto Rico Department of Housing (PRDOH)

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

State/Local Identifier: Puerto Rico / Mayagüez

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

Certifying Officer Name and Title:

Aldo A. Rivera Vázquez- Permits and Environmental Compliance Director Angel G. López Guzmán - Permits and Environmental Compliance Deputy Director María T. Torres-Bregón - Environmental Compliance Manager Sally Z. Acevedo-Cosme - Permits and Environmental Compliance Specialist Pedro de León Rodríguez - 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 Abdul Feliciano-Plaza - Permits and Environmental Compliance Specialist Javier Mercado-Barrera - Permits and Environmental Compliance Specialist Priscilla Toro-Rivera - Permits and Environmental Compliance Specialist

Consultant (if applicable): Angel Garcia PE, Sr. Environmental Engineer at AG Environmental PSC (angel@agepr.com)

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

Project Location: START POINT (LCDO. A. RAMIREZ SILVA ST.): LAT: 18.204045, LON: -67.145094. INTERSECTION, (CORNER OF A. RAMIREZ AND BOSQUE ST.): LAT: 18.205985, LON: -67.143520. ENDPOINT (BOSQUE ST.): LAT: 18.204805, LON: -67.140558.

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

This proposal aims to state improvements to Bosque Street which begin at its intersection with Highway PR-2R to the East and extend to its intersection at Ramírez Silvia Street, then turns down Ramírez Silvia Street to its intersection with Mendez Vigo Street. The project will provide better lighting at night and early in the morning to promote greater safety on a high-volume street; In addition, it will improve the condition of the streets, reducing damage to vehicles, adding that it is also used by citizens and/or students on bicycles or scooters. The reconstruction of the sidewalks to provide a more comfortable and safe space for all pedestrians, including the differently abled people.

The proposed changes include the following:

- 1. Reconstruction, redesign, and improvement of both streets with their sidewalks to be ADA compliant, as follows:
 - a. Reduction of automobile lanes to a minimum of 19'-11¾" for double- traffic sections, incorporating raised crosswalks that provide accessibility for all pedestrians, in turn serve as speed bumps to control vehicle speed. This applies to the following sections:
 - i. Bosque Street (from Dr. Basora (2R) and R. Betances Streets) to Orquídea Street).
 - ii. Ramírez Silva Street (from Las Flores to Méndez Vigo Streets)
 - b. Increase sidewalks to the maximum possible between 5' to 7'-8", but never under 36" minimum.
 - c. Removal, arrangement, and replacement of sidewalk lighting following design layout.
 - d. Reduced to a single lane in one direction, providing pocket parking spaces to the side of the street, as per the new design for Bosque and Ramírez Silva Street (from Orquídea to Las Flores Street).
 - e. Removal, arrangement, and replacement of street lighting following the design layout and improvements to traffic signals for Bosque and Ramírez Silva Street.
- 2. Replacement of the electrical system and underground aerial telecommunications system.
- 3. Implementation of green infrastructure for stormwater management.
- 4. Reforestation activities, planting of new trees.
- 5. Installation/construction of communal garbage collection stations
- 6. Pocket parking on two-way street sections.
 - a. Bosque Street (from Dr. Basora Street (2R) to Orquídea Street).
 - b. Ramírez Silva Street (from Las Flores to Méndez Vigo Street)

Action- Demolition

- All Sidewalks will be demolished to prepare and construct new wider sidewalks as per design. It
 is expected to demolish up to current soil level, fill and compact as required and build the new
 sidewalk on the same footprint.
- Street lanes scarification of asphalt as required, up to existing concrete level.
- Selective demolition of street lanes, to install precast electrical manholes and new underground feeders (electrical and telecommunications). The excavations to place manholes is of

approximately 10'2'' depth x 8'4'' x 11'4'' and 11'10'' depth x 13'4''x 10'4''. Excavation for trenches and other components required for the underground system will be around 6' depth or less.

 Existing above ground utilities distribution system (electrical and telecommunications), including light poles, concrete bases, conduits, and cables.

Excavations:

- 1. Earth movement or disturbance will take place.
 - a. All sidewalks will be demolished, and new wider sidewalks will be constructed. This demolition is typically to the current earth level.
 - b. Selective demolition will occur to accommodate new underground infrastructure for electrical power distribution and telecommunication.
- 2. Excavations associated with the electrical and telecommunication systems will take place. Selective excavations to install each precast electrical manholes and the new underground feeders for electrical as well as for telecommunication feeders. The excavations to place electrical manholes is of approximately 10'2" depth x 8'4" x 11'4" and 11'10" depth x 13'4"x 10'4". Excavation for trenches and other components required for the underground system will be around the 6' depth or less, this includes underground wiring for street lighting poles.
- 3. Street road paving activities that will occur in the project area will be the removal of asphalt on street lanes up to the concrete level.
 - a. There is approximately 4" inch of asphalt, that must be removed and replaced, as finishing.

New equipment

- Lighting, street poles.
- Traffic and Street signs
- New equipment for underground power distribution (manholes, underground transformers, pull boxes, etc.)
- Trees and gardening
- Street furniture (benches, trash cans, domino tables)

Rehabilitation / Renovation / Repair / Improvement

- Reconstruction of streets and sidewalks.
- Replacement of street and sidewalk lighting.
- Improvements in traffic signaling.
- Implementation of green infrastructure for stormwater management.
- Improvement of the storm sewer which consists of replacing the existing system depending on the conditions and considering new flow capacity, if necessary

Construction

- Construction of a pedestrian overpass and speed reduction.
- Construction of pocket parking lots.
- Construction of underground infrastructure for power distribution and communication.
- Demolition work is limited to sidewalks and streets. The works will not impact existing properties along these two streets.

This project is located between the following two streets: Calle Bosque (18.204804, -67.140518) and A. Ramírez Silva Street (18.203980, -67.145075) in Mayagüez, Puerto Rico.

It intersects with two main streets in the municipality of Mayagüez, under the cadastral number 233-077-593-09.

From an environmental perspective, the proposed project does not interfere or promote a negative impact with the current behavior of the area, since it involves making improvements to two existing streets. The intervention proposed includes the adaptation of a new layout but within the existing levels with filling, preparation of sidewalks and curbs. Once the project is completed, the use will be like the existing one, which does not entail changes to the environment in addition to the current ones. Proper use will be promoted, benefiting the environmental impact for the area, implementing green infrastructure for stormwater management and reforestation activities. We understand that the impact is not significant, it is not affected by ecologically sensitive areas with respect to existing commercial use.

It is understood that major changes to the area that imply the deterioration of the environment are not contemplated in its use and during construction works. All material to be installed does not contain harmful agents to the health or the well-being of those who currently occupy the area proposed for the project. The new design proposed will not be altering the existing levels of water flow.

Refer to attachment 1 for the project site map.

Funding Information

Grant Number	HUD Program	Funding Amount
B-17-DM-72-0001;		
B-18-DP-72-0001;	CDDC DD	¢11 020 162 220 00
B-19-DP-78-0002;	CDBG-DR	\$11,938,162,230.00
B-18-DE-72-0001		

Estimated Total HUD Funded Amount: \$6,596,273.67

Estimated Total Project Cost (HUD and non-HUD funds) [24 CFR 58.32(d)]: \$6,596,273.67

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, A	ND REGULATION	NS LISTED AT 24 CFR 50.4 and 58.6
Airport Hazards 24 CFR Part 51 Subpart D	Yes No	The closest civilian airport to the Project site is the Eugenio Maria de Hostos Airport (MAZ), located in Mayagüez, approximately 3.4 miles (18,480 feet) north of the project site. The nearest military airport is Muñiz Air National Guard at 75.55 miles (398,915.84 feet) to the northeast of the project site.
		The project is not located within 15,000 feet of a military airport, or 2,500 feet of a civilian airport. The Project is in compliance with Airport Hazard requirements. For further Information see attachment 2.

Coastal Barrier Resources Coastal Barrier Resources Act, as amended by the Coastal Barrier Improvement Act of 1990 [16 USC 3501]	Yes No	According to the Coastal Barrier Resources System Mapper, the closest CBRS Unit is PR- 72: Rio Guanajibo, located approximately 3.2 miles (16,896 feet) southwest of the Project. The Project is in compliance with Coastal Barrier Resources requirements. For further information refer to attachment 3.
Flood Insurance Flood Disaster Protection Act of 1973 and National Flood Insurance Reform Act of 1994 [42 USC 4001- 4128 and 42 USC 5154a]	Yes No	Per Floodplain Insurance Map 72000C0985J, effective date November 18, 2009, most of the east portion of the project is located within the regulatory floodway associated to the Rio Yagüez. Another portion is located within the 1% annual chance of flood hazard zone. The final eastern section of this project is located within Zone X, or the 0.2% annual chance of flood hazard zone. The project does not include insurable structures. The Project is in compliance with Flood Insurance
		requirements. For further information see attachment 4 and attachment 11C.
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STATUTES, EXECUTIVE ORDERS, A	ND REGULATION	
Clean Air Clean Air Act, as amended, particularly section 176(c) & (d); 40 CFR Parts 6, 51, 93	Yes No	The scope of the project does not involve new construction, land use conversion, or the development of public, commercial, or industrial facilities, nor does it include the development of five or more dwelling units. The site is within the Municipio of Mayagüez, which is in an Attainment Area for all criteria pollutants.
Clean Air Clean Air Act, as amended, particularly section 176(c) & (d); 40	Yes No	The scope of the project does not involve new construction, land use conversion, or the development of public, commercial, or industrial facilities, nor does it include the development of five or more dwelling units. The site is within the Municipio of Mayagüez, which is in an Attainment Area for all criteria pollutants. The nearest non-attainment municipality, Arecibo, which is in non-attainment for Lead (2008 standard), is 33.14 miles (175,185.2 feet) from the site. As such, the project is in full compliance with Clean Air requirements.
Clean Air Clean Air Act, as amended, particularly section 176(c) & (d); 40	Yes No	The scope of the project does not involve new construction, land use conversion, or the development of public, commercial, or industrial facilities, nor does it include the development of five or more dwelling units. The site is within the Municipio of Mayagüez, which is in an Attainment Area for all criteria pollutants. The nearest non-attainment municipality, Arecibo, which is in non-attainment for Lead (2008 standard), is 33.14 miles (175,185.2 feet) from the site. As such, the project is in full compliance with Clean Air

		CDBG-MIT programs. An Application for Certification of Consistency with the Puerto Rico Coastal Management Program was submitted to the Puerto Rico Planning Board on February 7, 2024. It was determined on November 06, 2024, that the project at reference is consistent with the PRCZMP with the condition that the applicant complies with the requirements as established in Resolution JP-2024-004.
		 Evidence compliance with the PR Environmental Policy Law (Law number 416 of September 22, 2004) by providing copy of the Environmental Compliance Determination emitted by the PR Permit Management Office (OGPe). Evidence compliance with the Special Flood Hazard Zone Regulations (Planning Regulation Number 13) when it is required depending on the nature and location of the project. In the case of projects that are located within Historic Zones designated by the PR Planning Board, the project must have the endorsement of the Puerto Rican Culture Institute.
		These documents were submitted to the Office of Geology and Hydrogeology Office of the Puerto Rico Planning Board on February 2, 2025.
		The Project follows Coastal Zone Management requirements.
		For further information see attachment 6A-B.
Contamination and Toxic Substances	Yes No	According to the NEPAssist database, there are regulated sites within a 3,000-foot radius of the project
Substances 24 CFR Part 50.3(i) & 58.5(i)(2)		regulated sites within a 3,000-foot radius of the project site. However, a detailed analysis confirms that all these sites are either downstream from the project location or compliant with relevant regulations. An inspection for both asbestos and lead-based paint was conducted on October 09, 2023, by Javier Medina, a DRNA/AHERA certified inspector. Lead-based paint was identified on certain elements of the project site (see full report on appendix 6D), and a lead-based paint mitigation plan for its proper removal will be implemented by the general contractor prior to any construction works. Additionally, the inspection included physical assessments of suspected asbestos-containing materials (ACM) within the park. No suspected materials were observed, consequently no samples were taken. A site inspection was completed on August 15, 2023. No evidence of hazardous materials, contamination, toxic chemicals and gases, or radioactive substances were observed during the site inspection. Thus, there are no environmental concerns identified at the site. The site inspection photos can be

		found in Attachment 15. A review of nearby regulated sites using the EPA tool ECHO identified ten (10) sites within a 3,000-foot radius of the project site. Only one of the regulated sites was found with violations, and its downstream of project site. The remain sites have no violations identified. Potential impacts of these nearby regulated sites were evaluated, considering factors such as pollution sources, emissions, and compliance information as well as distance to the project site. See attachment 6B for further information. Based on distance from the project site and absence of a significant violation, it was determined that these sites will not impact the project. Regarding radon, the proposal involves the improvements of streets and sidewalks (open public areas). In accordance with CPD-23-103, this exemption
Endangered Species		means that radon considerations are not applicable to this analysis. Based on the above information, the project complies with Contamination and Toxic Substances requirements and a lead-based paint hazard mitigation plan will be required. For further details, please refer to the supporting documentation in Attachments 7A-D. The project scope applies for evaluation under the
Endangered Species Act of 1973, particularly section 7; 50 CFR Part 402	Yes No	"Blanket Clearance Letter for Federally Sponsored Projects, Housing and Urban Development" issued by the USFWS and dated January 14, 2023. The Self-Certification, certifying that the project is in compliance and are not likely to adversely affect federally-listed species, was submitted to the U.S. Fish and Wildlife Service (USFWS) on April 3, 2025. On April 5, 2025, USFWS provided its certification. Per the Official Species List form the U.S. Fish and Wildlife Service (USFWS) Information for Planning and Consultation (IPaC) website, the Puerto Rican Boa can be found but there are no critical habitats at this location, nearest critical habitat is at 5.95 miles (31,416 feet) from site. Project will have no potential to affect these species or habitats due to the nature of the activities involved in the project. However, if a Puerto Rican Boa is encountered, work will cease until it moves off the site or, failing that, the Dept of Natural and Environmental Resources (DNER) will be notified to relocate the Boa. Refer to Attachments

Explosive and Flammable Hazards 24 CFR Part 51 Subpart C	Yes No	The proposed project does not include a hazardous facility that mainly stores, handles, or processes flammable or combustible chemicals such as bulk fuel storage facilities. Planned activities in the project area do not include installation of storage tanks. The project would not introduce new residents and would not involve an increase in employees or clients. Based on the examination of aerial and street views, it has been confirmed that there are no aboveground storage tanks within the acceptable separation distance. The Project is in compliance with Explosive and Flammable Hazards requirements. For further information refer to attachment 9.
Farmlands Protection Farmland Protection Policy Act of 1981, particularly sections 1504(b) and 1541; 7 CFR Part 658	Yes No	Project does not include any activities, including new construction, acquisition of undeveloped land or conversion, which could convert agricultural land to a non- agricultural use. The proposed project is located on developed urban land. According to the U.S. Department of Agriculture, Natural Resources Conservation Service, Web Soil Survey, the project site is not situated on farmland soils and is not protected under the Farmland Protection Policy Act. The Project is in compliance with Farmlands Protection requirements. For further information refer to attachment 10A-B.
Floodplain Management Executive Order 11988, particularly section 2(a); 24 CFR Part 55	Yes No	The proposed project is located in a Federal Flood Risk Management Standard (FFRMS) floodplain. The presence of the location in a FFRMS floodplain was assessed using the FEMA-defined 0.2 Percent-Annual-Chance Floodplain Approach (0.2PFA). The base flood elevation of the project is within the FFRMS. The proposed activity with dimensions of 1.686 acres is located in various types of flood zones; 1.66 acres within the FFRMS floodplain, and 0.51 acres outside the FFRMS floodplain, as shown in FEMA's Advisory Baseline Flood Elevations Map, revised 12/11/2018. Given the new for rule 55, effective May 23rd, 2024, this project would qualify for a 5-Step process by section 55.14 (e). The PRDOH Permits and Environmental Compliance Division, in a Memorandum dated May 21, 2024, indicated that the project complied with the following exception for activities in the floodway: 55.12(i): Special projects directed to the removal of

		material and architectural barriers that restrict the
		material and architectural barriers that restrict the mobility of and accessibility to elderly and persons with disabilities. There won't be new construction on previously undisturbed areas. The 5-Step analysis concluded that that there is no practicable alternative for locating the project outside the floodplain. Mitigation measures, including confining construction activities to previously developed areas and employing designs that limit soil disruption, green infrastructure to manage stormwater effectively and enhance the resilience of the floodplain, a stormwater pollution prevention plan with best management practices to control runoff and sedimentation during construction, would ensure that adverse impacts are minimized, and the project contributes positively to the area's environmental health, safety, and community development goals.
		The Project is in compliance with Executive Order 11988, particularly section 2(a); 24 CFR Part 55, as amended by Executive Order 13690.
		For further information refer to attachment 11A-C.
Historic Preservation National Historic Preservation Act of 1966, particularly sections 106 and 110; 36 CFR Part 800	Yes No	Existing information on previously identified historic properties has been reviewed to determine if any such properties are located within the area of potential effect (APE) of this undertaking. The review of this existing information, by a Program contracted Architect/Architectural Historian and Archaeologist meeting the Secretary of the Interior's Professional Qualification Standards (36 CFR Part 61), shows that project activities will not adversely affect the historic properties and cultural resources that compose the Area of Potential Effect (APE). Documentation was submitted to PRSHPO on 09/25/2024, recommending archeological monitoring for the electrical infrastructure trenches and indicating that an archaeological monitoring plan shall be prepared and submitted to the PRSHPO for review and comment. On 10/06/2024, PRSHPO responded in a letter agreeing with the finding that the proposed project will have no adverse effect upon historic properties, with the condition that archaeological monitoring during ground disturbing activities. The letter requested the archaeological monitoring work plan, for PRSHPO review and concurrence, prior to implementation. On 04/08/2025, PRSHPO indicated in a letter that it reviewed the archaeological monitoring plan, dated January and revised February 27, 2025, prepared for the project and that the plan is deemed acceptable.
		Refer Attachment 12.

Noise Abatement and Control Noise Control Act of 1972, as amended by the Quiet Communities Act of 1978; 24 CFR Part 51 Subpart B	Yes No	The project involves rehabilitation of existing nonresidential buildings for non- residential use. An evaluation of noise abatement and control is not required. The Project is in compliance with Noise Abatement and Control requirements.
Sole Source Aquifers Safe Drinking Water Act of 1974, as amended, particularly section 1424(e); 40 CFR Part 149	Yes No	There are no EPA sole source aquifers in Puerto Rico. Nearest sole aquifer is at 990 miles (5,223,731 feet) from project site. The project is in compliance with Sole Source Aquifer requirements. For further information see attachment 13.
Wetlands Protection Executive Order 11990, particularly sections 2 and 5	Yes No	The project is adjacent to a riverine wetland as shown in the NWI Wetland Mapper at https://fwsprimary.wim.usgs.gov/wetlands/apps/wetlandsmapper/ . The wetland identified by the NWI Wetland Mapper is the Rio Yaguez, which is approximately 90 feet north of the project site at its closest point. A 5-Step analysis was undertaken to evaluate potential effects to this wetland. The analysis indicated that no new occupancy or modification of the wetland area will take place since this project is situated in an existing developed area, actually in use, and constitutes the actual urban area of the municipality of Mayagüez. The analysis found that project at the proposed site will not negatively impact the wetland and will not add additional impact on the actual runoff water behavior during weather events. The design considers provisions for draining. Impact to the wetland will be limited to construction activities occurring within the previously developed site. A stormwater pollution prevention plan (SWPPP) would be prepared, and its Best Management Practices (BMPs) would be implemented to avoid surface runoff, ponding, and sedimentation of receiving waterways during construction. For further information refer to attachment 14.
Wild and Scenic Rivers Wild and Scenic Rivers Act of 1968, particularly section 7(b) and (c)	Yes No	Puerto Rico has only three Wild and Scenic Rivers, located on the east side of Puerto Rico. The proposed Project is located on the west coast of Puerto Rico, approximately 87 miles (460,560 feet) west of said rivers. There would be no impact to Wild and Scenic Rivers.
		Therefore, the Project is in compliance with Wild and Scenic Rivers requirements. Further information refer to attachment 15.

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

Field Inspection (Date and completed by):

Field inspection took place on June 1st, 2023, by AG Environmental PSC personnel.

During the site visit, data was collected to support the Environmental Review Record (ERR) process, ensuring compliance with the National Environmental Policy Act (NEPA) and other applicable regulations. Key areas of focus included identifying potential environmental impacts, evaluating the proximity to sensitive natural resources, and documenting existing land use. The site has been developed as a recreational facility. No evidence of hazardous materials, contamination, toxic chemicals and gases, or radioactive substances were observed during the site inspection. In addition, there were no storage tanks, drums, distressed vegetation or other visible evidence of contamination found during the inspection. The project is not expected to have an impact on the natural or human environment, and the project area was found to be free of potential environmental concerns such as wetlands and endangered species habitat. The gathered data confirmed that the proposed project qualifies for a categorical exclusion, as it does not involve activities that could significantly alter the physical or environmental landscape.

Refer to Attachment 16 for the photos of existing site conditions.

Summary of Findings and Conclusions: The Project will not result in significant adverse effects to the natural or human environment. In addition, the Project is anticipated to provide overall beneficial social and economic effects to the Municipality of Mayagüez by providing better roadways, increased resiliency to the electrical grid and improvements to pedestrian safety. PRSHPO found that the subject project, as proposed, would exert no adverse effect on historic properties within its area of potential effects. The project cannot convert to exempt because of the no adverse effect finding versus a no historic properties affected finding.

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

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

Law, Authority, or Factor	Mitigation Measure
Contamination and Toxic Substances	Lead-based paint, identified on certain elements of the project
	site, would be removed according to the lead-based paint
	mitigation plan prior to any construction works.
Historic Preservation	Archaeological monitoring would be conducted during all ground-
	disturbing activities in accordance with the SHPO-approved
	archaeological monitoring work plan.
Coastal Zone Management	The following documentation was provided to PR Planning Board
	to comply with coastal zone requirements:
	1. Evidence compliance with the PR Environmental Policy Law
	(Law number 416 of September 22, 2004) by providing copy of the
	Environmental Compliance Determination emitted by the PR
	Permit Management Office (OGPe).
	2. Evidence compliance with the Special Flood Hazard Zone
	Regulations (Planning Regulation Number 13) when it is required
	depending on the nature and location of the project.
	3. In the case of projects that are located within Historic Zones
	designated by the PR Planning Board, the project must have the
Fundamental Constitution	endorsement of the Puerto Rican Culture Institute.
Endangered Species	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
	and the July 27, 2023, Amended Programmatic Biological Opinion.
Floodplain Management	Mitigation measures, including confining construction activities to
Hoodplain Management	previously developed areas and employing designs that limit soil
	disruption, green infrastructure to manage stormwater effectively
	and enhance the resilience of the floodplain, a stormwater
	pollution prevention plan with best management practices to
	control runoff and sedimentation during construction, would
	ensure that adverse impacts are minimized.
Wetlands Protection	A stormwater pollution prevention plan (SWPPP) would be
	prepared, and its Best Management Practices (BMPs) would be
	implemented to avoid surface runoff, ponding, and sedimentation
	of receiving waterways during construction.

no circumstances which §58.5. Funds may be con EXEMPT project; OR This categorically exclude circumstances which req §58.5. Complete consulta "Authority to Use Grant I drawing down any funds	require compliance with any of the formmitted and drawn down after cert d activity/project cannot convert to I quire compliance with one or more fation/mitigation protocol requirement (HUD 7015.16) per Section 58; OR ct to a full Environmental Assessment	Exempt because there are federal laws and authorities cited at nts, publish NOI/RROF and obtain
Preparer Signature: Name/Title/Organization: Gene	Henevier Kaise	Date: <u>May 14, 2025</u> tal Planner/GIS Specialist, Tetra Tech, Inc.
Certifying Officer Signature:	Toro Rivera/ Environmental Spe	Date: <u>5/14/2025</u>

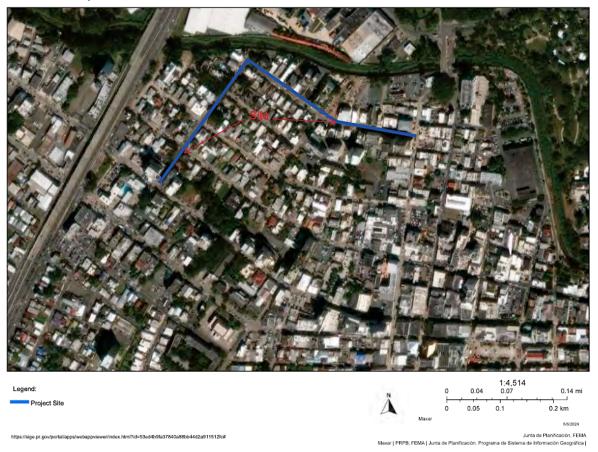
Determination:

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

List of attachments

1	Project Map Area
2	Airport Hazards Map
3	Coastal Barrier Resources Map
4	Flood Insurance Rate Map
5	Clean Air:
	5A Non-attainment area map
	5B Greenbook Data
6	Coastal Zone:
	6A Map
	6B Supporting Documentation
7	Contamination and Toxic Substances:
	7A Toxics map with 3,000ft buffer
	7B Toxic Summary Table
	7C Echo reports
	7D Lead-based paint and asbestos report
8	Endangered Species:
	8A Critical Habitat Map
	8B Blanket Clearance Letter
	8C USFWS Self-Certification package
9	Explosive and Flammables Hazards Map
10	Farmland Classification:
	10A PR Planning Board Terrain Use Map
11	10B USDA Web Soil Survey Map
11	Floodplain Management
	11A FEMA Advicery Page Flood Floyation Man
	11B FEMA Advisory Base Flood Elevation Map 11C Five (5) Step Process
12	Historic Preservation
13	
14	Sole Source Aquifers Map
	Wetlands Map
15	Wild & Scenic Rivers Map
16	Photos of Site Conditions

Location Map



Attachment 1: Project Map Area

Project Name: Improvements to Bosque and Lic. A Ramírez Silva Streets, Municipality of Mayagüez Location: Bosque Street (Lat:18.204804, Long: -67.140518) and Ramírez Silva Street (Lat: 18.203980,

Long: -67.145075) Source: Google Earth

Website: https://earth.google.com/web/ Prepared by: Applied Engineering Group

Airport Hazards Map



Attachment 2: Airports Hazards Map

Project Name: Improvements to Bosque and Lic. A Ramírez Silva Streets, Municipality of Mayagüez Location: Bosque Street (Lat:18.204804, Long: -67.140518) and Ramírez Silva Street (Lat: 18.203980,

Long: -67.145075)

Source: NEPA Assist Tool

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





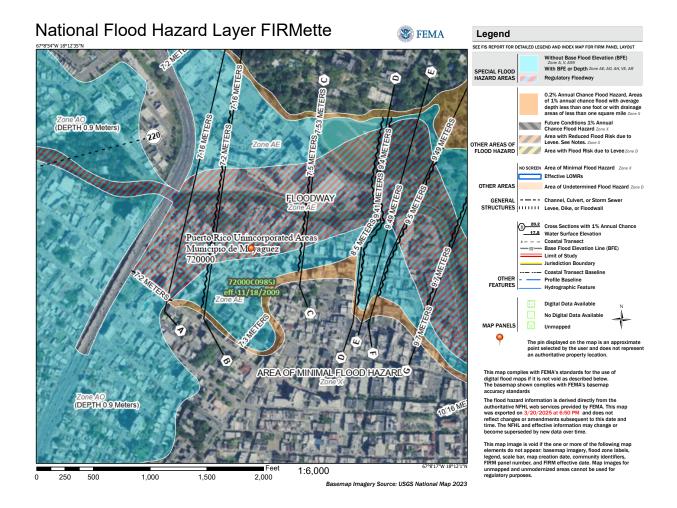
Attachment 3: Coastal Barrier Resources Map

Project Name: Improvements to Bosque and Lic. A Ramírez Silva Streets, Municipality of Mayagüez Location: Bosque Street (Lat:18.204804, Long: -67.140518) and Ramírez Silva Street (Lat: 18.203980,

Long: -67.145075)

Source: NEPA Assist Tool

Website: hZps://fwsprimary.wim.usgs.gov/CBRSMapper-v2/

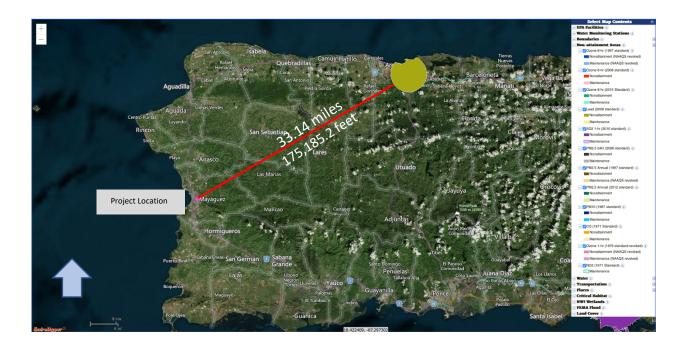


Attachment 4: Flood Insurance Rate Map

Project Name: Improvements to Bosque and Lic. A Ramírez Silva Streets, Municipality of Mayagüez Location: Bosque Street (Lat:18.204804, Long: -67.140518) and Ramírez Silva Street (Lat: 18.203980,

Long: -67.145075) Source: FEMA

Website: https://msc.fema.gov/portal/search Prepared by: Applied Engineering Group



Attachment 5A: Distance to non-attainment County Map

Project Name: Improvements to Bosque and Lic. A Ramírez Silva Streets, Municipality of Mayagüez Location: Bosque Street (Lat:18.204804, Long: -67.140518) and Ramírez Silva Street (Lat: 18.203980,

Long: -67.145075)

Source: NEPA Assist Tool

Website: hZps://fwsprimary.wim.usgs.gov/CBRSMapper-v2/

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

Data is current as of February 28, 2025

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

*The 1997 Primary Annual PM-2.5 NAAQS (level of 15 µg/m²) is revoked in attainment and maintenance areas for that NAAQS. For additional information see the PM-2.5 NAAQS SIP Requirements Final Rule, effective Octobe

*The 1997 Primary Annual PM-2.5 NAAQS (level of 15 µg/m²) is revoked in attainment and maintenance areas for that NAAQS. For additional information see the PM-2.5 NAAQS SIP Requirements Final Rule, effective October 24, 2016. (81 FR 58009)
Change the State: PUERTO RICO G G G

Important Notes	Download National Dataset: dbf xis 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	UERTO RICO							
Arecibo Municipio	Lead (2008)	Arecibo, PR	11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	//		Part	32,185	72/013
Bayamon Municipio	Sulfur Dioxide (2010)	San Juan, PR	18 19 20 21 22 23 24 25	//		Part	22,921	72/021
Catano Municipio	Sulfur Dioxide (2010)	San Juan, PR	18 19 20 21 22 23 24 25	//		Whole	28,140	72/033
Guaynabo Municipio	PM-10 (1987)	Mun. of Guaynabo, PR	92 93 94 95 96 97 98 99 00 01 02 03 04 05 06 07 08 09	02/11/2010	Moderate	Part	90,470	72/061
Guaynabo Municipio	Sulfur Dioxide (2010)	San Juan, PR	18 19 20 21 22 23 24 25	//		Part	23,802	72/061
Salinas Municipio	Sulfur Dioxide (2010)	Guayama-Salinas, PR	18 19 20 21 22 23 24 25	//		Part	23,401	72/123
San Juan Municipio	Sulfur Dioxide (2010)	San Juan, PR	18 19 20 21 22 23 24 25	//		Part	147,963	72/127
Toa Baja Municipio	Sulfur Dioxide (2010)	San Juan, PR	18 19 20 21 22 23 24 25	11		Part	52,441	72/137

Important Note

Attachment 5B: EPA Greenbook Data – nonattainment areas

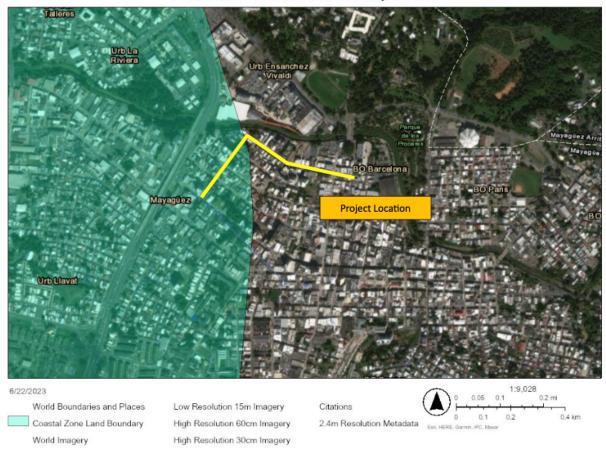
Project Name: Improvements to Bosque and Lic. A Ramírez Silva Streets, Municipality of Mayagüez Location: Bosque Street (Lat:18.204804, Long: -67.140518) and Ramírez Silva Street (Lat: 18.203980,

Long: -67.145075)

Source: NEPA Assist Tool

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

Puerto Rico Coastal Vulnerability Viewer



Attachment 6A: Coastal Zone

Project Name: Improvements to Bosque and Lic. A Ramírez Silva Streets, Municipality of Mayagüez Location: Bosque Street (Lat:18.204804, Long: -67.140518) and Ramírez Silva Street (Lat: 18.203980,

Long: -67.145075)

Source: Puerto Rico Coastal Vulnerability Viewer

Website:

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

Attachment 6B Supporting Documentation for Coastal Zone	



GOBIERNO DE PUERTO RICO

PUERTO RICO PLANNING BOARD

November 6, 2024

Angel López Guzmán

Director
Permits and Environmental Compliance Director
Disaster Recovery Office
PR Department of Housing
PO Box 21365
San Juan, PR 00928-1365

Federal Consistency Certification with the Puerto Rico Coastal Zone Management Program (PRCZMP)
CZ-2024-0918-207
Federal Assistance with CDBG-DR funds from the City Revitalization
Program (CRP)
PR-CRP-000857
Improvements to Bosque and Lic. A Ramirez Silva Streets
Mayaguez, Puerto Rico

Dear Mr. López:

We have been evaluation the application at reference. The Puerto Rico Planning Board in its meeting of July 24, 2024 emitted a General Federal Consistency Certification with the PRCZMP under resolution JP-2024-004 for projects to be financed with Federal funds under the CBDG-DR and CDBG-MIT programs. The section D of this resolution establishes that Federal assistance awarded under CDBG-DR and CDBG-MIT programs for infrastructure projects (sidewalks, roads, highways, service lines, public squares) is consistent with the PRCZMP with the condition that the applicant fulfills the following requirements ninety (90) days before the construction phase of the project:



- 1. Evidence compliance with the PR Environmental Policy Law (Law number 416 of September 22, 2004) by providing copy of the Environmental Compliance Determination emitted by the PR Permit Management Office (OGPe).
- 2. Evidence compliance with the Special Flood Hazard Zone Regulations (Planning Regulation Number 13) when it is required depending on the nature and location of the project.
- 3. In the case of projects that are located within Historic Zones designated by the PR Planning Board, the project must have the endorsement of the Puerto Rican Culture Institute.

These documents must be submitted to the Office of Geology and Hydrogeology Office of the Puerto Rico Planning Board as soon as possible within a period of 120 days from this communication. Please refer to the Federal Consistency review application number.

Considering this, the project at reference is consistent with the PRCZMP with the condition that the applicant complies with the above-mentioned requirements as established in Resolution JP-2024-004.

If you have any question or need assistance, do not hesitate to contact Rose A. Ortiz at (787) 723-6200 ext. 16012 or by e-mail ortiz r@jp.pr.gov.

Cordially,

Luis E. Lamboy Torres

Director

Office of Geology and Hydrogeology

RAO

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

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

General Instructions:

- A. Attach a 1:20,000 scale, U.S. Geological Survey topographic quadrangular base map of the site.
- B. Attach a reasonably scaled plan or schematic design of the proposed object, indicating the following:
 - 1. Peripheral areas
 - 2. Bodies of water, tidal limit, and natural systems.
- C. You may attach any further information you consider necessary for proper evaluation of the proposal.
- D. If any information requested in the questionnaire does not apply in your case, indicate by writing "N/A"(not applicable).
- E. Submit a minimum of seven (7) copies of this application.

	DO NOT WRIT	E IN THIS BOX	
	Type of application:	Application Number:	
	Date received:	Date of Certification:	
	Evaluation result:	☐ Acceptance	☐ Negotiation
	Technician:	Supervisor:	
	Comments:		
1.	Name of Federal Agency: Puerto Rico Departm	ent of Housing (Respon	sible Entity)
2.	Federal Program Catalog Number: 14.218 Comm Recovery (Cl		ock Grant - Disaster
3.	Type of Action:		
	☐ Federal Activity ☐ License or pe	rmit 🗵 Fo	ederal Assistance
4.	Name of Applicant: Puerto Rico Department of Ho	using (Responsible Entity) / City Revitalization Program
5.	Postal Address Po Box 21365, San Juan, PR 00	0928-1365	
	Telephone: (787) 274-2527	Fax: (787)758	3-9263
6.	Project name: Mejoras a la Calle Bosque y Calle	e Lic. A. Ramírez Silva	(PR-CRP-000857)
	Physical Description of Project Location (area, and sanitary sewer placement, etc.):	facilities such as vehice	ular access, drainage, storm,
	This project proposes the improvements to the in	rrastructure of Bosque S	st. and Lic A Ramirez Silva

St, including pavement restoration, ADA-compliant sidewalks widening, relocation, and

	improvements to power management infrastructure					nts to stormwater
	Lambert Coordinates:		X= 124875		= 241395	<u></u>
8.	Type of construction or oth	er worl	x proposed:			
	⊠ drainage	□ cha	nneling	□ landfill		☐ sand extraction
	□ pier	□ brid	lge	☐ residential		□ tourist
	⊠ others (specify and exp	olain):	stormwater n	of sidewalks nanagement, p nd, reforestation	ower and	
	Description of proposed w	ork:	Refer to attache	ed project descrip	tion.	

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

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

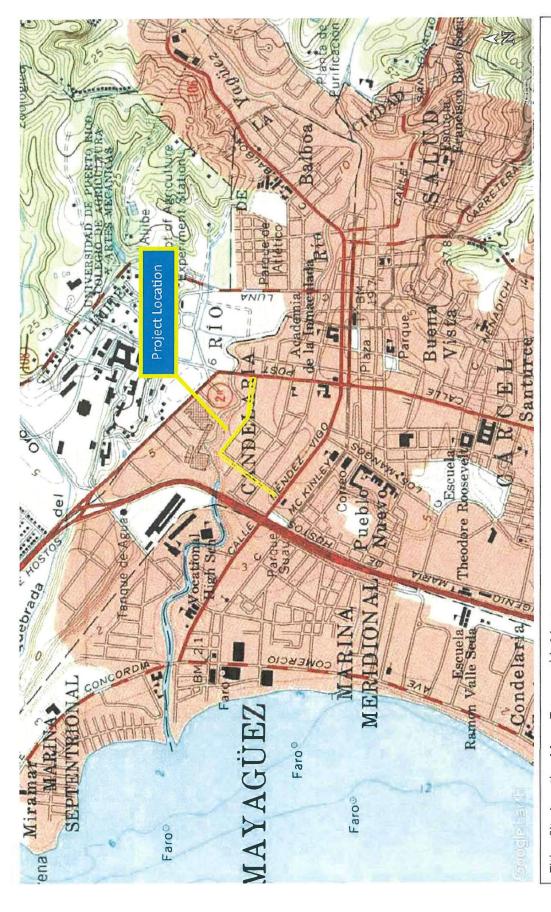
System	Within Project	Outside Project	Distance (meters)	Local name of affected system	
beach, dunes		X	860	Bahía de Mayagüez / Litoral	
marshes		X	4,000	Caño Merle	
coral, reefs		X	5,600	Cayo Rodríguez	
river, estuary		X	35	Río Yagüez	
bird sanctuary		X	20,700	Refugio de Vida Silvestre (Boquerón)	
pond, lake, lagoon		X	8,100	Laguna Joyuda	
agricultural unit		X	>400	Estación Agrícola Experimental TARS	
forest, wood		X	>140,000		
cliff, breakwater		X	>1,700	Punta Boca Morena	
cultural or tourist area		X	>1,200	Paseo Litoral	
				Recinto Universitario de Mayagüez	
other (explain)	X	X		Floodzone, Zone A	

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

Positive ⊠ Negative □

Explain: Proposed activities will positively impact by enhancing the neighborhood, allowing adequate streets, sidewalks, and infrastructure facilities for the benefit of community residents and nearby university students.

10. Indicate permits, approvals, and endorsements of the proposal by Federal and Puerto Rican government agencies. Evidence of such support should be attached to the proposal.									
		Yes	No	Pending					
a.	Planning Board				<u> </u>				
b.	Regulation and Permits Administration								
c.	Environmental Quality Board			П.					
d.	Department of Natural Resources								
e.	State Historic Preservation Office								
f.	U.S. Army Corps of Engineers								
g.	U.S. Coast Guard								
h.	Other (s) (specify)		П						
	CERTIFICATION								
cc	I CERTIFY THAT Mejoras a la Calle Bosque y Calle Lic. A. Ramírez Silva (PR-CRP-00857) is consistent with the Puerto Rico Coastal Zone Management Program, and that to the best of my knowledge the above information is true.								
D	Angel López-Guzmán Name (legible) Deputy Director, Permits and Environmental Compliance Division Disaster Recovery Office, PRDOH Position Signature 7 - feb2 024 Date								



Title: Site Location Map - Topographic Map

Project: Improvements to Bosque and Lic. A Ramirez Silva Streets, Municipality of Mayagüez (PR-CRP-000857)

Source: USGS (1982)

Website: https://ngmdb.usgs.gov/topoview/viewer/#4/40.01/-100.06



Title: Site Location Map - Aerial View Map

Project: Improvements to Bosque and Lic. A Ramirez Silva Streets, Municipality of Mayagüez (PR-CRP-000857)

Source: Google Earth

Website: https://earth.google.com/web/



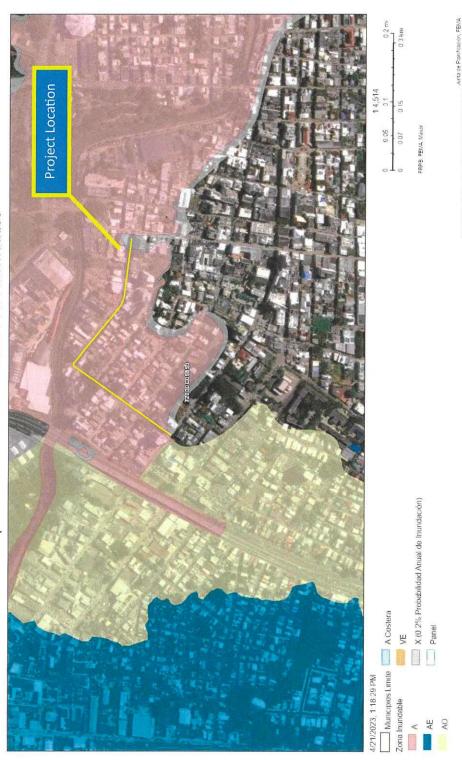
Title: FEMA Flood Insurance Rate Map

Project: Improvements to Bosque and Lic. A Ramirez Silva Streets, Municipality of Mayagüez (PR-CRP-000857)

Source: FEMA

Website: https://www.fema.gov/flood-maps/national-flood-hazard-layer

Mapa Niveles de Inundación Base Recomendados



Junta de Planificación, Programa de Sistema de Información Geográfica i

Title: Base Flood Elevation Advisory Map

Project: Improvements to Bosque and Lic. A Ramirez Silva Streets, Municipality of Mayagüez (PR-CRP-000857)

Source: FEMA/PR Planning Board

Website: https://maps.jp.pr.gov/index.php/461-2/

MANAGERS. ARCHITECTS. ENGINEERS AND PLANNERS



10 St. Montecarlo Ave. #866 Rio Piedras, PR 00924-5818 P.O. Box 361298 San Juan, Puerto Rico 00936-1298

Name of the project: Improvements in Bosque Street and Lic. Ramirez Silva Street.

Project Number: PR-CRP-000857

Location: Calle Bosque, Mayagüez, Puerto Rico 00680 (18.204804,

-67.140518) and Calle Lic. A.Ramirez Silva, Mayagüez, Puerto Rico

00680 (18.203980, -67.145075).

Occupancy Area: approximately (2,068 ft perimeter)

Length: 630 meters

Cadastre Number: 233-077-593-09 **Project Estimate:** \$6,900,000.00



Project Overview

In September 2017, Hurricanes Maria and Irma hit Puerto Rico, severely impacting infrastructure across the island. The deterioration of electric lighting can be observed, as well as deterioration in certain areas of the streets and sidewalks. Calle Bosque connection, Calle Lic. Ramirez Silva

[•] Phonel: (787)-771-5071 • Phone2: (787)-771-5069 • Phone3: (787) 771-5070 • Fax: (787) 771-5070 •

[•] Email: AEG@aegroup-pr.com • Spider web: www.AppliedEngineeringGroup.com • lg: AppliedEngineeringGroupIO •

MANAGERS, ARCHITECTS, ENGINEERS AND PLANNERS



10 St. Montecarlo Ave. #866 Rfo Piedras, PR 00924-5818 P.O. Box 361298 San Juan. Puerto Rico 00936-1298

are one of the closest streets to the Mayagiüez Campus of the University of Puerto Rico. This campus is the 2nd largest in Puerto Rico and has an enrollment of approximately 10,000 srudents. Due to its location, there is a high number of multi-residential buildings and commercial activity in the vicinity. Bosques and Lic. A. Ramirez Silva Streets are used by residents and visitors to gain access to residential units and businesses. In addition, this route connects downtown Mayagüez with state highways PR-2 and PR-2R. These streets are in a sector with a high level of commercial and residential use.

Due to Puerto Rico's geographical location, each year the island observes an active hurricane season, with high risk of direct impact. To prevent or minimize the recurrence of damage from future events or natural disasters, the project hopes to increase the resilience of the lighting system and stormwater controls. In addition, it will create a safer space for vehicles and pedestrian traffic and promote inclusion, with better access for the diverse community of reduced mobility. social, commercial and residential activity to meet the existing demand for services. This project seeks to connect communities with a better and safer combination of pedestrian and vehicular traffic.

Description of changes

This proposal aims to improve Bosque Street and Lie. Ramirez Silva Street. The project will provide better lighting at night and early in the morning to promote greater safety on a high-volume road. In addition, it will reduce the damage caused by the state of the streets to vehicles, adding that it is also used by many citizens and / or students by bicycle. The reconstruction of sidewalks to provide a more comfortable and safe space for all pedestrians, ir:cluding the population with reduced mobility.

The proposed changes include the following:

- 1. Reconstruction and redesign of sidewalks and improvements necessary for ADA compliance by performing the following changes:
 - a. Calle Bosque (from Calle Dr. Basora (2R) to Calle Orquidea)
 - Reduce car lanes to a minimum of 10-1/2' for the two-way sections of both streets, incorporating elevated crosswalks providing better pedestrian mobility, and at the same time serve as speed reducers, and to control traffic speeds at no more than 15 mph.
 - in Increase sidewalks to the maximum possible of 4'to 6'.
 - b. <u>Calle Bosque and Calle Ledo. Ramirez Silva (from Calle Orquidea to Cc:Jle Las Flores)</u>
 - i. Reduce to a single car lane in one way direction, providing pocket;,arking spaces to one side of the street.
 - ii. Increase sidewalks to the maximum possible of 4'to 7'.

MANAGERS, ARCHITECTS, ENGINEERS AND PLANNERS



10 St. Montecarlo Ave. #866 Rio Piedras, PR 00924-5818 P.O. Box 361298 San Juan, Puerto Rico 00936-1298

c. Calle Lcdo. Ramirez Silva (from Calle Las Flores to Calle Mendez Vigo)

- i. Reduce car lanes to a minimum of 10-1/2' for the two-way sections of both streets, incorporating elevated crosswalks providing better edestrian mobility, and at the same time serve as speed reducers, and to control traffic speeds at no more than 15 mph.
- ii. Increase sidewalks to the maximum possible of 4'to 6'.
- 2. Reconstruction and improvement of street surfaces.
- 3. Replace street and sidewalk lighting.
- 4. Improvements in signaling through the installation of traffic signs.
- 5. Infrastructure for underground power and communication lines.
- 6. Implementation of green infrastructure for stormwater management.
- 7. Reforestation activities.

Actions

- Demolition
 - o All sidewalks
 - o Both Streets
 - o Aerial infrastructure (communication/lighting)
- Purchase
 - o Street Lighting
 - Traffic and street signs.
 - o Infrastructure for underground power and communication lines
 - o Trees, gardening
 - o Others: pre-cast elements (i.e. pre-cast benches, bollards, planters, etc.)
- Rehabilitation / Renovation / Repair / Improvement
 - o Streets and sidewalks reconstruction.
 - o Repaying.
 - o Replace street and sidewalk lighting.
 - o Improvements in traffic signaling.
 - o Implementation of green infrastructure for stormwater management.
 - o Cleaning of the storm water sewer system and/or improvements if necessary.
- Phonel: {787}-771-5071 Phone2: {787}-771-5069 Phone3: {787} 771-5010 Fax: {787} 771-5070 •
- Email: AEG@aegroup-pr.com Spider web: www.AppliedEngineeringGroup.com lg: AppliedEngineeringGroupI0 •

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10 St. Montecarlo Ave. #866 Rfo Piedras, PR 00924-5818 P.O. Box 361298 San Juan, Puerto Rico 00936-1298

o Installation of infrastructure for underground power and communication lines.

Construction

- o Construction and redesign of sidewalks in compliance with the ADA.
- o Construction of the streets, car lanes.
- o Construction of elevated pedestrian cross passing.
- o Construction of pocket parkings
- o Construction of underground infrastructure for power and communication.

Environmental Consideration

This project is located between the following two streets: Calle Bosque, Mayagüez, Puerto Rico (18.204804, -67.140518) and Calle Lie. A. Ramirez Silva, Mayagüez, Puerto Rico (18.203980, -67.145075). It is attached to the intersection of two streets in the municipality of Mayagüez, under the cadastre number 233-077-593-09. Located in a flood area according to the National Flood Harzad Layer Firmette map by FEMA / PR and the Advisory Base Flood Elevation, cataloged as a flood zone (*Refer to Figure 1 and Figure 2*). *e*

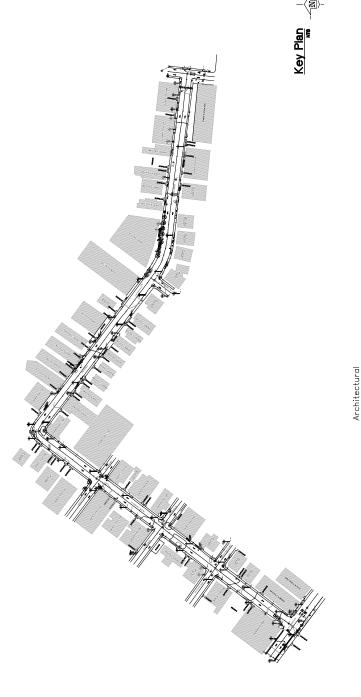
From an environmental perspective we understand that the proposed project does not interfere or promote a negative impact with the current behavior of the area, since it is only about making improvements to existing streets and sidewalks.

Therefore, the intervention proposed includes the adaptation of the land to the proposed levels with filling, preparation of sidewalks and taping. Making a use similar to the existing one. Appropriate use will be promoted, benefiting the environmental impact for the area, implementing green infrastructure for rainwater management and reforestation activities. We understand that there is no additional impact other from the existing, it is not affected by ecologically sensitive areas with respect to existing Commercial use.

It is understood that this area does not contemplate changes that imply the deterioration of the environment contemplated in its use and during the construction of work where all material to be installed in our opinion does not contain any harmful agent to the health, and well-being of those who currently occupy the proposed area for development. Therefore, according to Regulation number 13 of Flood Susceptible Areas, the property under consultation is not altering the existing levels with those proposed to maintain the flow of water in the main channel unaltered.

Improvements Project

Calle Bosque and Calle Lic. A. Ramirez Silva, PR—CRP—000857 Municipio de Mayagüez, Puerto Rico, 00685 Puerto Rico Map



Consultation Consultation

Zoning Plan







Proposed Plan - (Option 1 & 2) Blow Up 2 Proposed Plan - (Option 1 & 2) Blow Up 1 Proposed Plan - (Option 1) Blow Up 3 Proposed Plan - (Option 2) Blow Up 3 Proposed Plan - Street Section 1 Proposed Plan - Street Section 2 1_A-1.00 2_A-1.02 3_A-1.03 4_A-1.04 5_A-1.05 6_A-1.06

Survey and Topographic Work Survey and Topographic Work

1_ST-1.01 2_ST-1.02

Existing Conditions

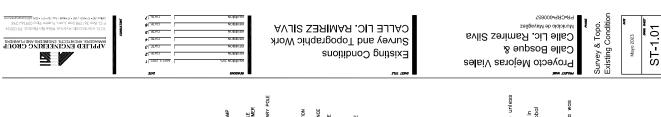
Sheet 7-1

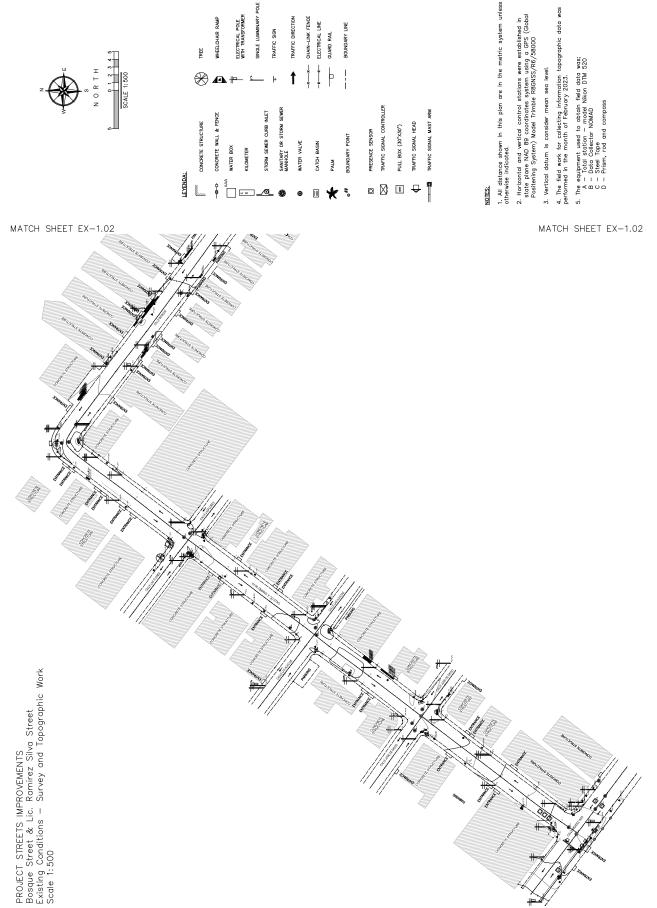
Proposed Plan - Site Plan View

Electrical

Demolition Site Plan View - Calle Lic. Ramirez Silva Demolition Site Plan View - Call Bosque Demolition Plan General Notes Demolition 1_DP-1.01 2_DP-1.02 3_DP-1.03

Existing Conditions – Site Plan View
Existing Conditions – Site Plan View
Existing Conditions – Underground Electrical System
Existing Conditions – Underground Electrical System (Construction Detail) 1_E-1.01 3_E-1.02 4_E-1.04 5_E-1.05 6_E-1.06 7_E-1.07 8_E-1.08 9_E-1.09





Calle Lic. Ramirez Silva Municipio de Mayagüez PR-CRP-000857 Salle Bosque &

Survey & Topo. Existing Condition

Mayo 2023

ST-102

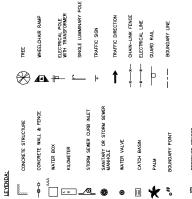
Proyecto Mejoras Viales

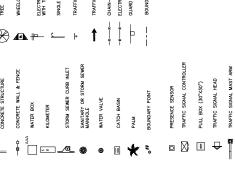
Existing Conditions Survey and Topographic Work CALLE BOSQUE

0 1 2 3 4 5 SCALE 1:500 N O R ⊤ H

WAPPLIED ENCHREES WID ELYMEIS

WHOSERS' PROFILECTS: ENCHREES WID ELYMEIS





1. All distance shown in this plan are in the metric system unless otherwise indicated.

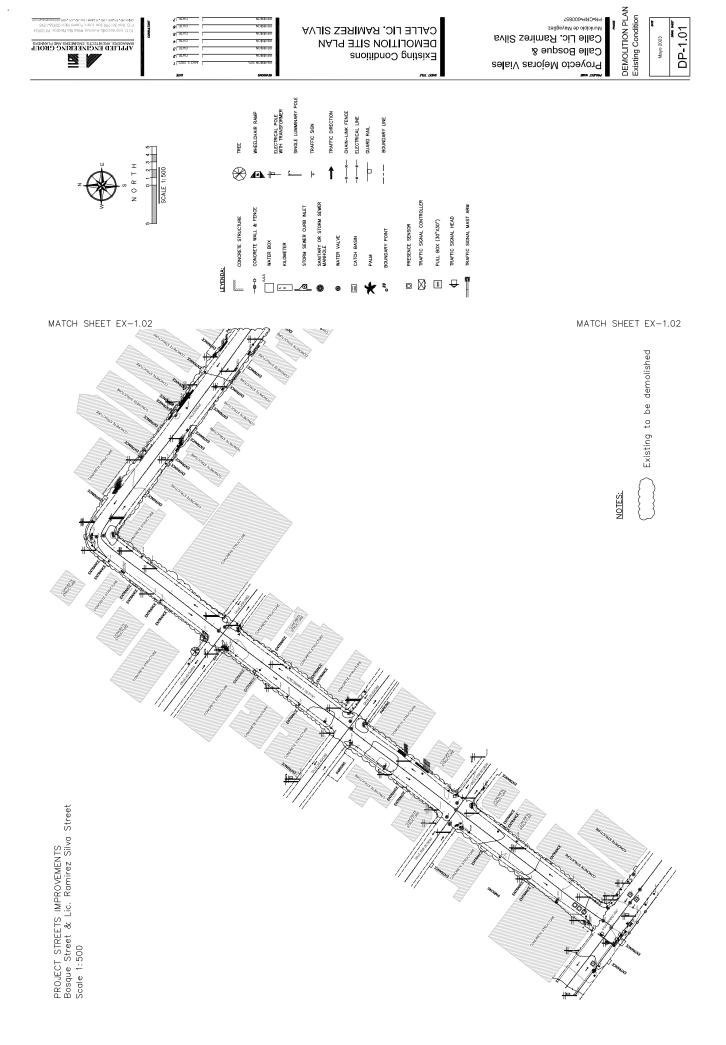
- 2. Horizontal and vertical control stations were established in state plane NAD 89 coordinates system using a GPS (Global Positening System) Model Trimble RBGNSS/R6/58000 3. Vertical datum is consider mean sea level.
- 4. The field work for collecting information topographic data was performed in the month of February 2023.
 - 5. The equipment used to obtain field data was:
 A Total station model Nikon DTM 520
 B Data Calector NOMAD
 C Steel Tape
 D Prism, rod and compass



PROJECT STREETS IMPROVEMENTS
Bosque Street & Lic. Ramirez Silva Street
Existing Conditions — Survey and Topographic Work
Scale 1:500

MATCH SHEET EX-1.01

MATCH SHEET EX-1.01



DEMOLITION PLAN Existing Condition Calle Bosque & Calle Lic. Ramirez Silva Municipio de Mayagüez Proyecto Mejoras Viales

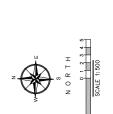
DP-1.02

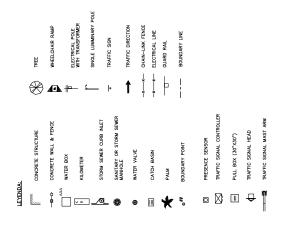
Existing to be demolished



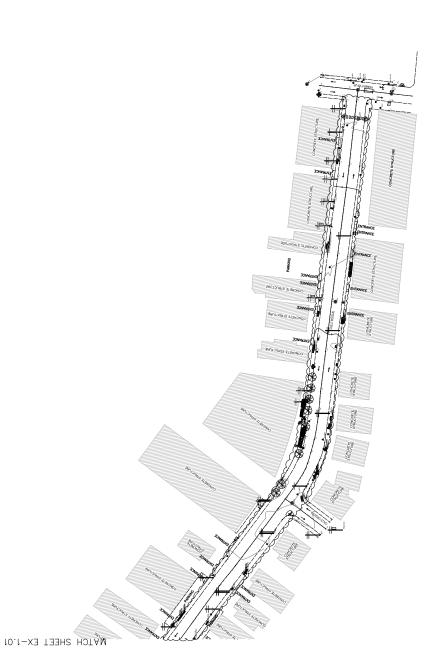








Existing Conditions DEMOLITION SITE PLAN CALLE BOSQUE



PROJECT STREETS IMPROVEMENTS Bosque Street & Lic. Ramirez Silva Street Scale 1:500

MATCH SHEET EX-1.01

DP-103

Mayo 2023

Existing Conditions DEMOLITION PLAN NOTES

DEMOLITION AND REMOVAL SHALL BE CONDUCTED IN A MANNER THAT ELIMINATES HAZARDS TO PERSONS, THE ENVIRONMENT AND PROPERTY IN THE PROJECT AND THE SURROUNDING AREA. THE CONTRACTOR SHALL PREVENT RELEASE OF LEAD CONTAINING DUST WHERE APPLICABLE THE AIR AND SOIL.

N N N

FOR ALL DEBRIS AND SCRAP MATERIALS CONTRACTOR SHALL DISPOSE OF AS TO MANITAIN THE PROJECT SITE & SURROUNDINGS FREE OF WASTE MATERIALS, ACCORDING TO MUNICIPAL, STATE & FEDERAL REGULATIONS. ۲.

HEALTH HAZARDS TO ADJACENT RESIDENTIAL AND
COMMERCIAL AREAS, CONTRACTOR SHALL USE WATER TANK
TRUCKS AT HIS OWN COST OR REQUEST A TEMPORARY
CONNECTION FROM A VAILLABLE AAA METER, AND
ET TAKEN FROM PUBLIC FIRE HYDRANTS OR NEIGHBORS. THE CONTRACTOR SHALL MAINTAIN ALL STREETS FREE OF OBSTRUCTIONS AND CLEAN AT ALL TIMES. WHERE WASHING WITH WATER IS REQUIRED TO CONSTRUCT OR TO PREVENT ∞

AND OGPe SOLID NECESSARY DOCUMEN'S AND PERMITS FROM THE OGDE ENVIRONMENTAL QUALITY BOARD OF PUERTO RICO, SOLID WASTE AUTHORITY AND EPA, IN ORDER TO PROCEED WITH CONTRACTED WORK. OBTAIN SUBMIT, PROCURE AND SHALL CONTRACTOR H

တ်

SUBMIT AND OBTAIN NEW THE CONTRACTOR MUST MAINTAIN IN FULL FORCE ALL COST PROJECT PERMITS AND / OR NEW PERMITS AT HIS OWN CC

10.

WORK IN THE PROJECT. PERMITS AND APPROVALS PROJECT ACTIVITIES MUST BE SUBMITTED TO THE HIS REPRESENTATIVE BEFORE PROCEEDING WITH ANY ING WORK. R WILL NOTIFY AND OBTAIN PERMIT FROM COMMISSION PRIOR TO EXCAVATION AND THE CONTRACTOR WILL IN PUBLIC SERVICE COMMISS DEMOLITION WORK IN T OWNER AND HIS CORRESPONDING Ë

THIS IS A PARTIAL DEMOUTION PROJECT ON WHICH SITE ELEMENTS AND UTILITIES WILL BE DEMOLISHED, REMOVED AND RECYCLED AFTER ENVIRONMENTALLY HAZARDOUS MATERIALS ABATEMENT, IF APPLICABLE HAS BEEN COMPLETED AND CERTIFIED BY CONCERNED AUTHORITIES. SEE DRAWINGS FOR UTILITIES TO REMAIN.

GENERAL INSTRUCTIONS:

Ramirez Silva Street

Bosque Street & Lic.

PROJECT

DEMOLITION NOTES

<u>.</u>

STREETS IMPROVEMENTS

S OF THE CUTTING, PRIOR TO PROCEEDING WITH PLANTING AND REFORESTATION WORK, CONTRACTOR MUST FOLLOW THE REQUIREMENTS OF T DEPARTMENT OF NATURAL RESOURCES A PERMIT FOR CUTTIL PRUNING AND PLANTING. 7

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Y CONCRETE THAT CAN BE RECYCLED SHALL BE PRODUCE AN AASHTO MINIMUM CLASSIFICATION

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4.

PROJECT REPAIR TO 2 WATER, SEWER, ELECTRICITY, GAS, CABLE TV, DATA AND TELEPHONE) CAN NOT BE SUSPENDED, WITHOUT PRIOR AUTHORIZATION OF THE PROJECT MANAGEMENT. IF ACCIDENTALLY ANY SERVICE IS INTERRUPTED DUE TO PROJECT MANAGEMENTS. CONTRACTOR WILL PROVIDE IMMEDIATE REPAIR OWNER'S SATISFACTION AT NO ADDITIONAL COST TO OWNER. 5

> STATE DISPOSAL

COMPLY WITH REMOVAL &

CERTIFIED LANDFILLS ACCORDING TO & FEDERAL REGULATIONS. SEE AND HAZARDOUS MATERIALS ABATEMENT REQUIREMENTS.

CONTRACTOR SHALL DISPOSE PROPERLY OF ALL NON-AFCYCLABLE MATERIALS FROM DEMOLITION WORK, INCLUDING SITE GARBAGE ACCOMPLIATIONS, IN CERTIFIED LANDFILLS ACCORDING TO MUNICIPAL,

THE CONTRACTOR IS RESPONSIBLE TO TAKE PHOTOS OF THE EXISTING CONDITIONS PRIOR TO BEGINNING DEMOLITION WORKS. THIS IS REQUIRED FOR ANY CLAIM THAT ARISES AND MUST BE DELIVERED TO THE RESIDENT INSPECTOR FOR HIS FILES.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND DISPOSITION OF GARBAGE & RECYCLING DUMPSTERS DURING DEMOLITION AND CONSTRUCTION WORKS. īς.

9

OWNER'S SATISFACTION

CONDITION AT \forall

TEMS SHALL BE RESTORED TO IT'S ORIGINAL

CONTRACTOR'S EXPENSE AND ADDITIONAL COST TO OWNER.

ø.

CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE INFLICIED TO THE PROJECT PROPERTY OR ADJACENY PROPERTIES OR OTHER PROJECT AREAS TO REMAIN DURING THE DEMOLITION AND CONSTRUCTION PHASES. DAMAGED

Ġ.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF TREMPORARY OR NECESSARY EQUIPMENTS OR UTILITIES FOR THE PROVISION OF ELECTRICITY, POTABLE WATER AND SANITARY SERVICES FOR THE CONSTRUCTION PERSONNEL AND FOR THE CONSTRUCTION INSPECTION TEAM DURING THE DEMOLITION AND CONSTRUCTION PERIOD. THE CONTRACTOR SHALL ALSO PROVIDE INSPECTION TEAMLER FOR THE CONSTRUCTION 6.

DEMOLITION NOTES - ELECTRICAL WORKS:

2 THAT CONTRACTOR SHALL REMOVE ALL ELECTRICAL EQUIPMENT ALMATERIALS FROM AREAS TO BE REMODELED TAKING CARE TH. CIRCUITS THAT ARE TO BE KEPT ENERGIZED ARE COORDINATED "MAINTAIN THESE SERVICES.

SHALL BE AND FREE LEFT WITHOUT SHORTS REMODELING SEL В AFFECTED THEY ARE EXISTING CIRCUITS CHECKED SO THAT FROM ANY DEFECTS. ۲,

IN AREAS REMODELED, CONTRACTOR SHALL REMOVE ALL CONDUITS NOT EMBEDDED IN CONCRETE THAT ARE ABANDONED SHALL BE LEFT WITHOUT ANY CONDUCTORS. Ŋ.

BOXES SHALL BE PROVIDED WITH BLANK PLATES. ALL

4.

AL 5 VERIFY THAT PANELBOARDS INSTALLATION THAT IT HAS , SPACES COVERS REQUIREMENTS AND OORS AND BREAKERS TO LIVE PARTS JR MUS,
WITH NEC REGULATIONS A TO LIVE COMPLIES WITH NEC PROTECTIVE COVERS, [AVOID ANY EXPOSURE CONTRACTOR 5

SAFETY AND HEALTH PRECAUTIONS DEMOLITION NOTES -

- MUST FREE ENVIRONMENT 띺 IR SURROUNDING. HEALTH OF ALL PROVIDE A RISK AND THEIR SURI SAFETY AND FOR ALL EMPLOYEES AND GUARANTEE THE SAFETY A SHALL CONTRACTOR
- AND PROVIDE A SAFETY AND START ANY FIELD WORK. THE CONTRACTOR SHALL HEALTH PLAN PRIOR TO \$
- E.P.A. AND AND PRECAUTIONS DURING DEMOLITION/CONSTRUCTION (ALL O.S.H.A. UPDATED COMPLIANCE IS UNDER EFFECT) SAFETY MEASURES

3

ĸ.

GENERAL WORK RELATED TO THE DEMOLITION OR ALTERATION TO THE PROJECT SITE MUST BE UNDERTAKEN IN CONFORMITY WITH THIS SAFETY PLAN.

4.

- SAFETY MEETINGS THE CONTRACTOR WILL PERFORM WEEKLY SAFETY TOURS AND MEETINGS WITH HIS PERSONNEL TO TRAIN AND DISCUSS THE BEST OF A SAFETY MEASURES TO BE IMPLEMENTED IN THE PROJECT. S.
- THE CONTRACTOR WILL PERFORM CONTINUOUS JOB SITE INSPECTIONS CONFIRM ANY POTENTIAL SAFETY HAZARDS IN FA POTENTIAL SAFETY HAZARDS THE CONTRACTOR. WILL USE THE APPROPRIATE METHODS, EQUIPMENT, DEVICES AND MATERIAL TO MANINTAIN A SAFE WORKPLACE, SAFETY TOURS, AND TO MANINTAIN A SAFE AND ACCIDENT FREE JOB. ø.
- EXPERIENCED PERSONNEL TO ASSURE A JOB PROPERLY DONE AND SAFE. THE CONTRACTOR SHALL PROVIDE A HEALTH & SAFETY COORDINATOR. THE CONTRACTOR WILL PROVIDE TRAINED AND
- FIRE THE CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTION IN THE WORK AND OPERATIONAL ∞
- SPACES MERCADO AND ITS COMMERCIAL SPACE : FOR THE STORAGE OF CONSTRUCTION THE PLAZA DEL MERCADO, CANNOT BE USE FOR THE SOR COMBUSTIBLE MATERIAL. 6
- CONTRACTOR SHALL PROVIDE FIRE EXTINGUISHERS / CONSTRUCTION AREA. THE ENTIRE DEMOLITION THE FOR <u>0</u>
- FEET A 100 NWO ALL HEAVY EQUIPMENT SHOULD HAVE ITS OW EXTINGUISHERS OR HAVE ONE AVAILABLE IN RADIUS FROM IT. Ξ.
- PROVIDED AND CONSTRUCTION PERIOD FREE TO OTHER FIRE ACCESS TO FIRE HYDRANTS, OR TO EXTINGUISHING EQUIPMENT, SHALL MAINTAINED AT ALL TIMES. DURING DEMOLITION / 12.
- REQUIRED TO DRESS SHOES. PROPER RESPIRATORY PROTECTION WILL BE USE WHENEVER REQUIRED. PROPER HAND PROTECTION SOUNDS CONTRACTOR EMPLOYEES WILL BE REQUIRED TO DR PROPERLY WHILE PERFORMING THEIR JOB. EACH WORKER WILL USE APPROPRIATE WORKING SAFETY WILL BE USE WHEN REQUIRED.PROPER HEARING PROTECTION WILL BE USED IN AREAS WHERE SCARE HIGHER THAN 80 DBS. 5.

Calle Lic. Ramirez Silva Municipio de Mayagüez PR-CRP 000857 Architectural Proposed Plan Mayo 2023 Calle Bosque & Proyecto Mejoras Viales

OPTION 2-parking on one side of the two way traffic calle Bosque

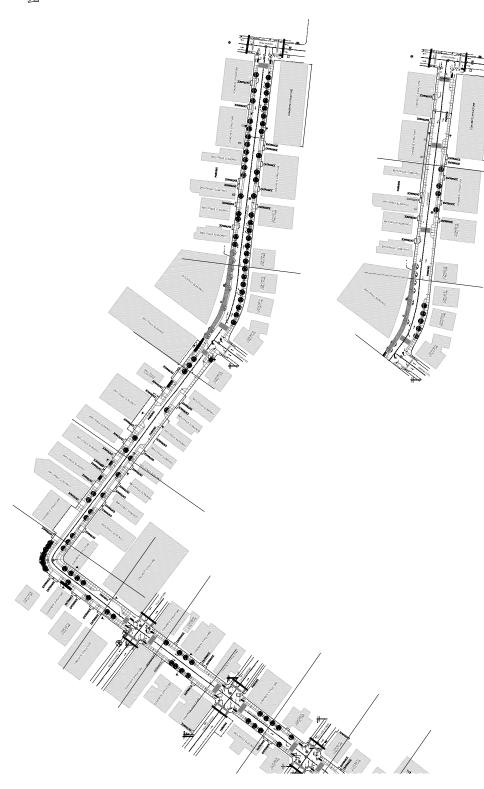
A-101

Proposed Plan ARCHITECTURAL SITE PLAN VIEW CALLE BOSQUE









PROJECT STREETS IMPROVEMENTS Bosque Street & Lic. Ramirez Silva Street Architectural — Proposed Plan Scale 1:700

Municipio de Mayagüez PR-CRP-000857 Calle Lic. Ramirez Silva Salle Bosque & Proyecto Mejoras Viales

A-1 02

Mayo 2023

qu wo**l**B - S & ↑ noitqO ARCHITECTURAL SITE PLAN VIEW Proposed Plan

CONCRETE STRI ICT. ICT.

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ENTRANCE ENTRANCE

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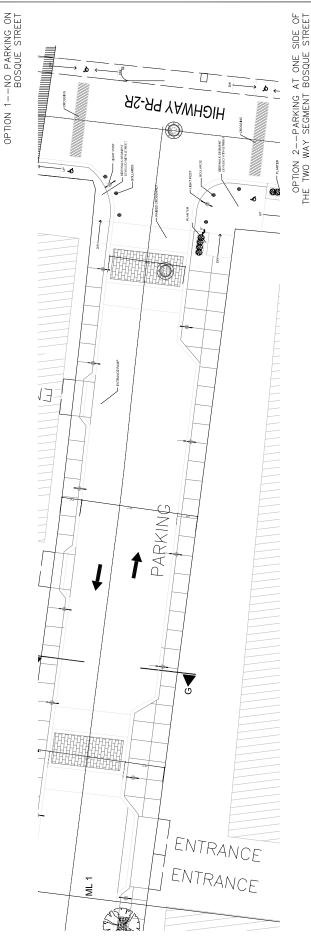
ENTRANCE

CONCRETE STRUCTURE



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PROJECT STREETS IMPROVEMENTS Bosque Street & Lic. Ramirez Silva Street Architectural — Proposed Plan Option 1 & 2 (Blow Up 1) Scale 1:150

CALLE BOSQUE

TABATA

Municipio de Mayagüez Calle Lic. Ramirez Silva Calle Bosque & Proyecto Mejoras Viales

A-1 03

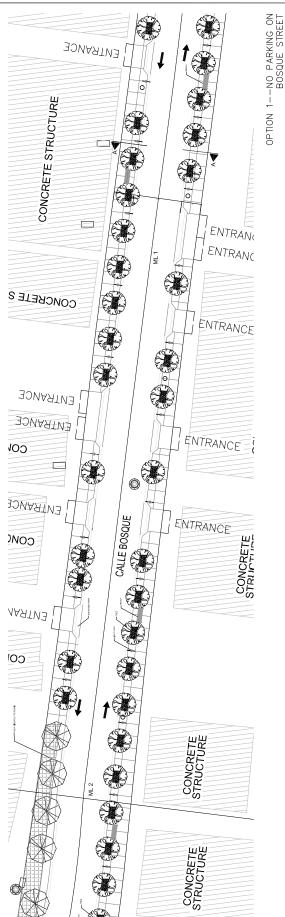
Mayo 2023

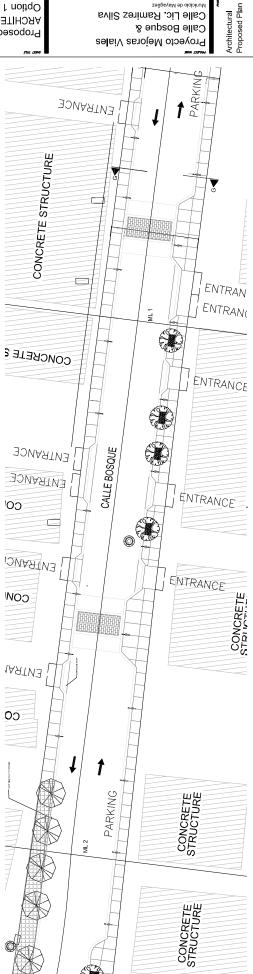
OPTION 2--PARKING AT ONE SIDE OF THE TWO WAY SEGMENT BOSQUE STREET

2 qU wol8 -2 & ↑ noitqO ARCHITECTURAL SITE PLAN VIEW Proposed Plan









2) PROJECT STREETS IMPROVEMENTS Bosque Street & Lic. Ramirez Silva Street Architectural — Proposed Plan Option 1 & 2 (Blow Up Scale 1:150

Proyecto Mejoras Viales
Calle Bosque & Proyecto Mejoras Viales
Calle Lic. Ramirez Silva
Calle Lic. Ramirez Silva
Option 1 - Blow Up 3

Proyecto Mejoras Viales
Calle Lic. Ramirez Silva
Option 1 - Blow Up 3

Proyecto Mejoras Viales
Calle Lic. Ramirez Silva
Option 1 - Blow Up 3

Municiple de Mayaguez

Option 1 - Blow Up 3

Municiple de Mayaguez

Option 1 - Blow Up 3

Municiple de Mayaguez

Option 1 - Blow Up 3

Municiple de Mayaguez

Option 1 - Blow Up 3

Municiple de Mayaguez

Option 1 - Blow Up 3

Municiple de Mayaguez

Option 1 - Blow Up 3

Municiple de Mayaguez

Option 2 - Mayaguez

Option 3 - Mayaguez

Option 3 - Mayaguez

Option 3 - Mayaguez

Option 3 - Mayaguez

Option 4 - Mayaguez

Option 4 - Mayaguez

Option 5 - Mayaguez

Option 4 - Mayaguez

Option 4 - Mayaguez

Option 5 - Mayaguez

Option 5 - Mayaguez

Option 4 - Mayaguez

Option 5 - Mayaguez

Option 5 - Mayaguez

Option 6 - Mayaguez

Option 6 - Mayaguez

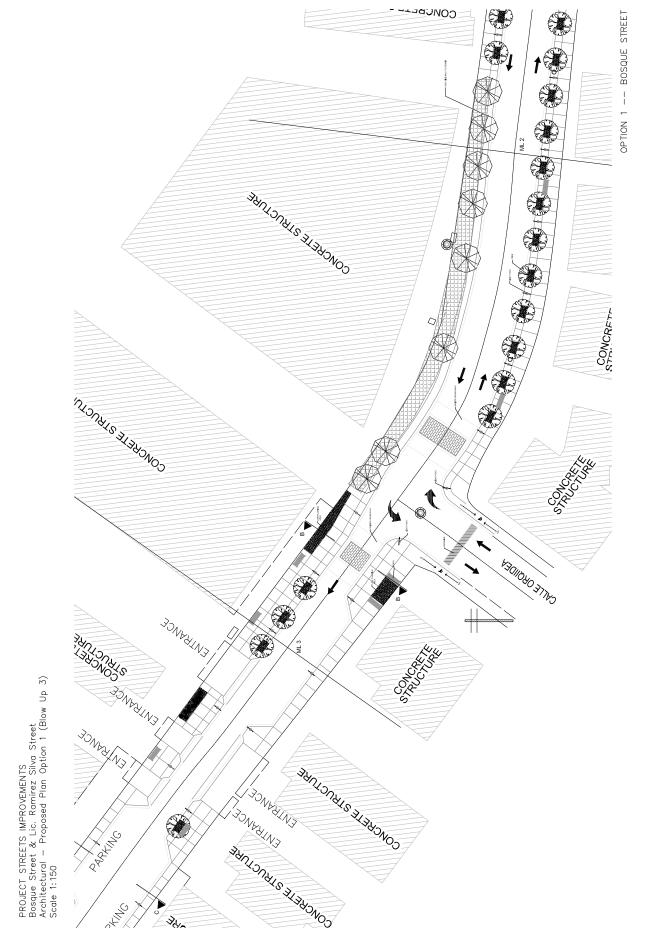
Option 7 - Mayaguez

Option 8 - Mayaguez

Option 9 - Mayaguez

Option 8 - Mayaguez

Option

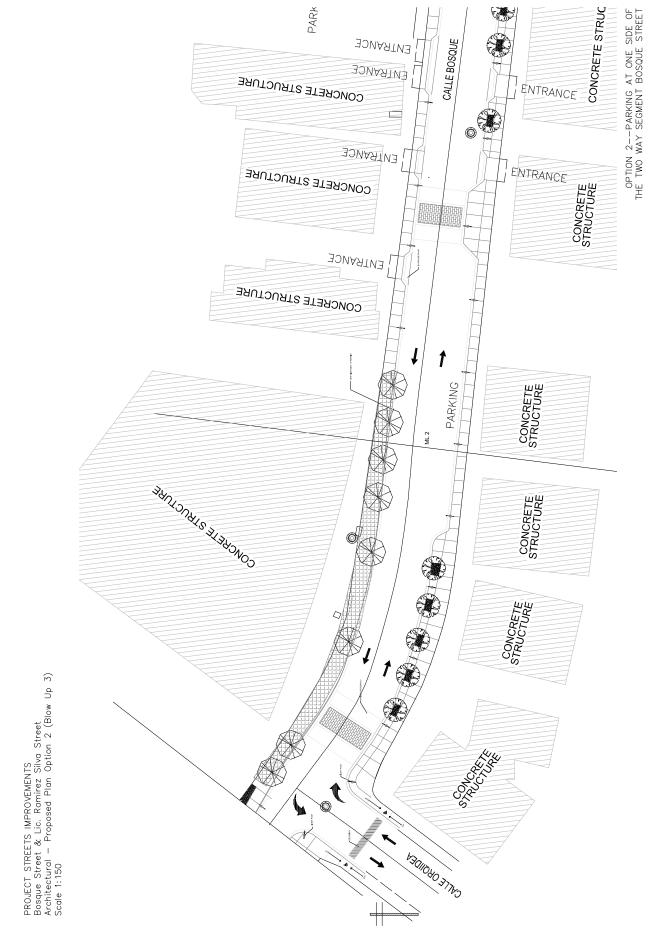


Municipio de Mayagüez Architectural Proposed Plan A-105 Calle Lic. Ramirez Silva Mayo 2023 Salle Bosque & Proyecto Mejoras Viales

£ qU wolB - S noitqO ARCHITECTURAL SITE PLAN VIEW Proposed Plan







Proposed Plan
Provecto Mejoras Viales
Calle Lic. Ramirez Silva
Calle Lic. Ramirez Silva
Properto Mejoras Viales
Calle Lic. Ramirez Silva
Street Sections 1

Proposed Plan
Summa

APCHITECTURAL SITE PLAN VIEW
Summa

Summa

Application

APCHITECTURAL SITE PLAN VIEW
Summa

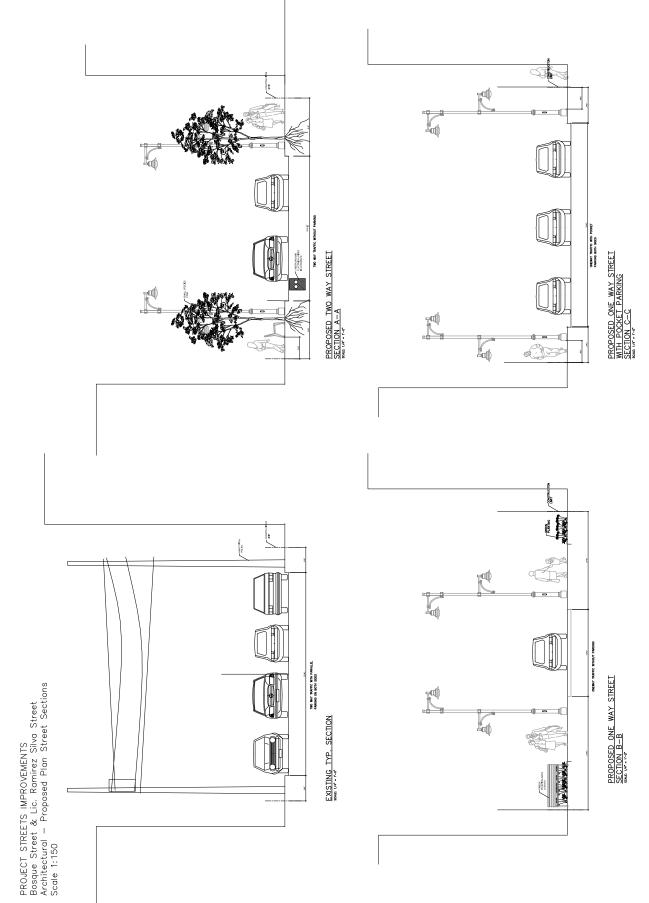
Summa

Application

APCHITECTURAL SITE PLAN VIEW
Summa

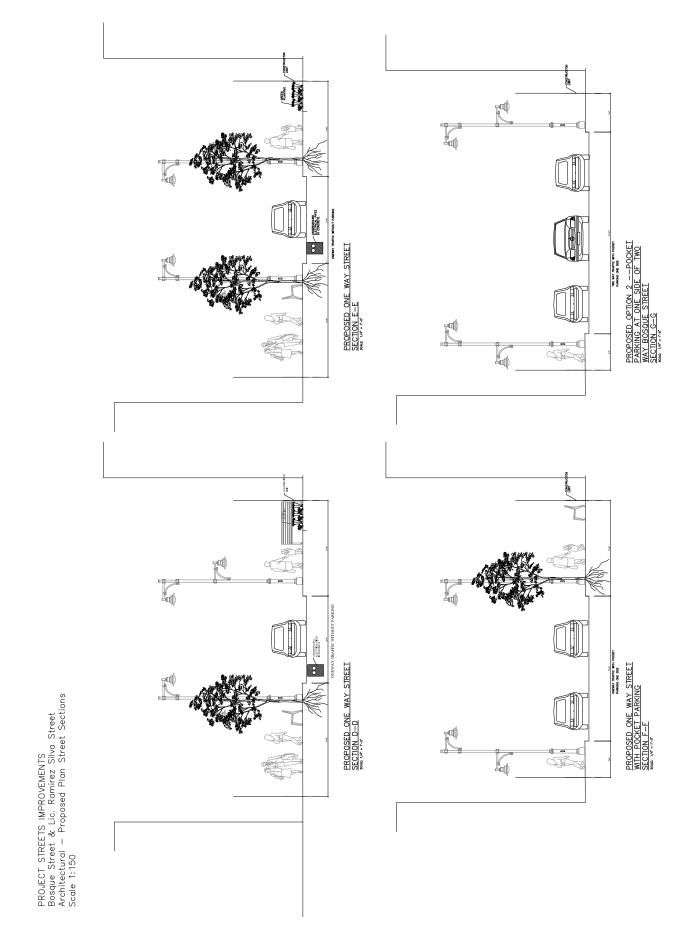
Summa

Application



Proyecto Mejoras Viales
Calle Bosque & Calle Bosque & Street Sections S Architecture of Mejoras Viales
Calle Lic. Ramirez Silva
Street Sections S
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WWWGERS, ARCHTECTS, ENGINEERING, CROUP

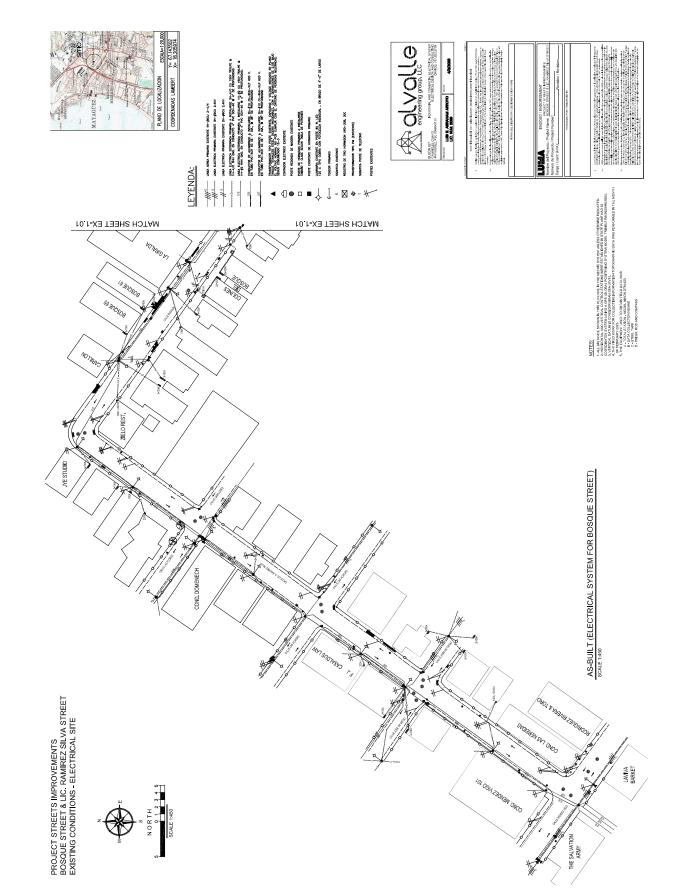


PROYECTO MEJORAS VIALES
CALLE BOSQUE &
MUNICIPIO DE MAYAGÜEZ, PR 80660
PROFRAGORANIO EXST. COND. ELECTRICAL E-1.01 MAY 2023

EXISTING CONDITIONS ELECTRICAL PLAN SITE VIEW CALLE LIC, RAMIREZ SILVA







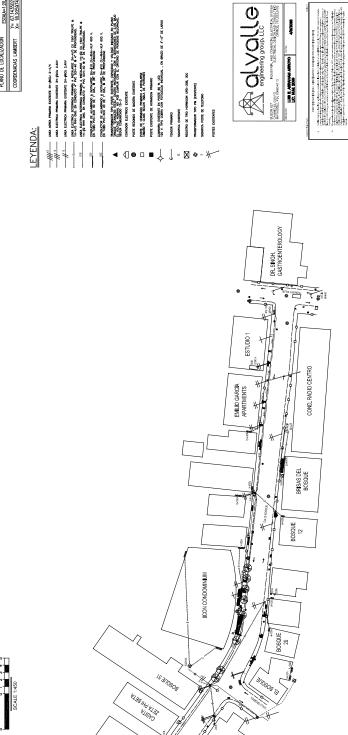
PROVECTO MEJORAS VIALES
PROVECTO MEJORAS VIALES
PROVECTO MEJORAS VIALES EXST. COND. ELECTRICAL E-1.02 MAY 2023

CALLE BOSQUE ELECTRICAL PLAN SITE VIEW CALLE BOSQUE









MATCH SHEET EX-1.01

AS-BUILT (ELECTRICAL SYSTEM FOR BOSQUE STREET)

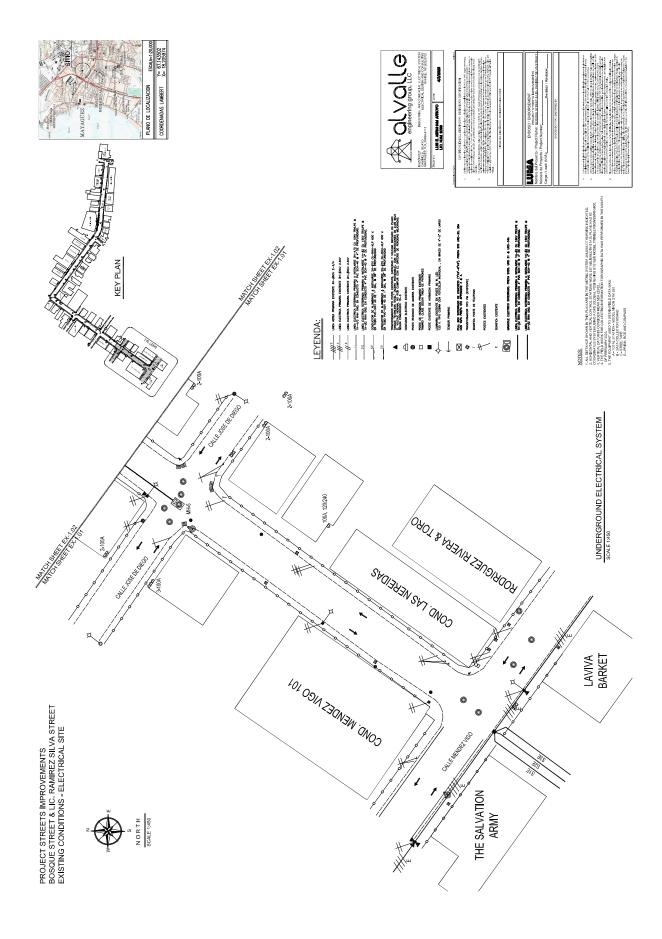
PROJECT STREETS IMPROVEMENTS BOSQUE STREET & LIC. RAMÍREZ SILVA STREET EXISTING CONDITIONS - ELECTRICAL SITE

MATCH SHEET EX-1.01

PROVECTO MEJORAS VIALES
CALLE LIC. RAMIREZ SILVA
CALLE BOSQUE &
PROFESONST EXST. COND. ELECTRICAL E-103 MAY 2023

CALLE LIC, RAMIREZ SILVA UNDERGROUND ELECTRICAL SYSTEM EXISTING CONDITIONS





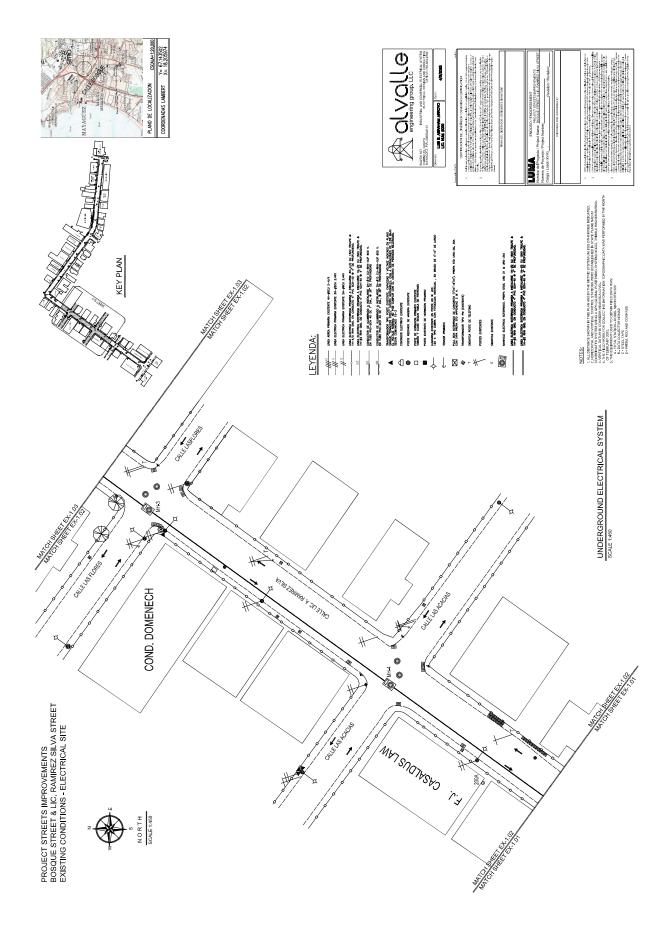
PROYECTO MEJORAS VIALES
CALLE BOSQUE &
MUNICIPIO DE MAYAGÜEZ, PR 80660
PROFRAGORANIO EXST. COND. ELECTRICAL MAY 2023

E-1 04

CALLE LIC. RAMIREZ SILVA CALLE LIC. RAMIREZ SILVA





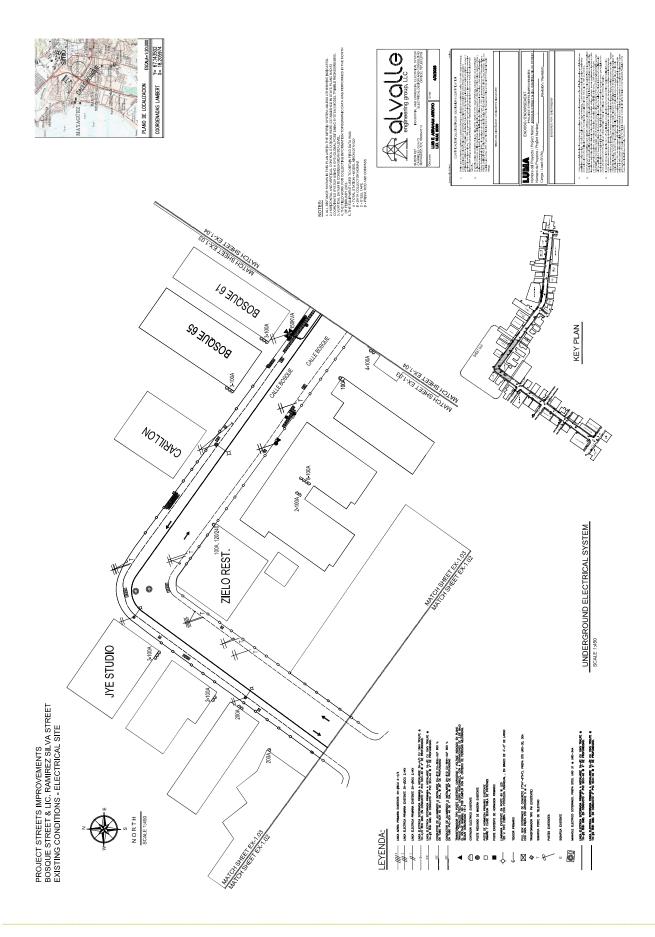


PROYECTO MEJORAS VIALES
CALLE BOSQUE &
MUNICIPIO DE MAYAGÜEZ, PR 80689
PRICRE-200867 EXST. COND. ELECTRICAL E-105 MAY 2023

C. LIC. RAMIREZ SILVA / C. BOSQUE EXISTING CONDITIONS



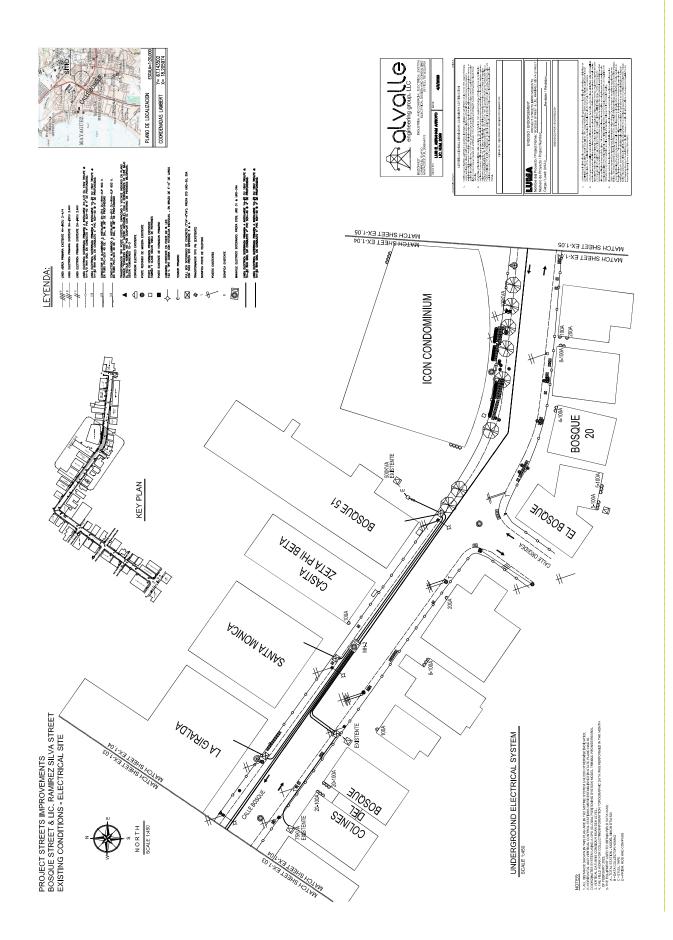




PROVECTO MEJORAS VIALES
CALLE LIC. RAMIREZ SILVA
CALLE BOSQUE &
PROFESONST EXST. COND. ELECTRICAL E-1.06 MAY 2023

CALLE BOSQUE UNDERGROUND ELECTRICAL SYSTEM EXISTING CONDITIONS



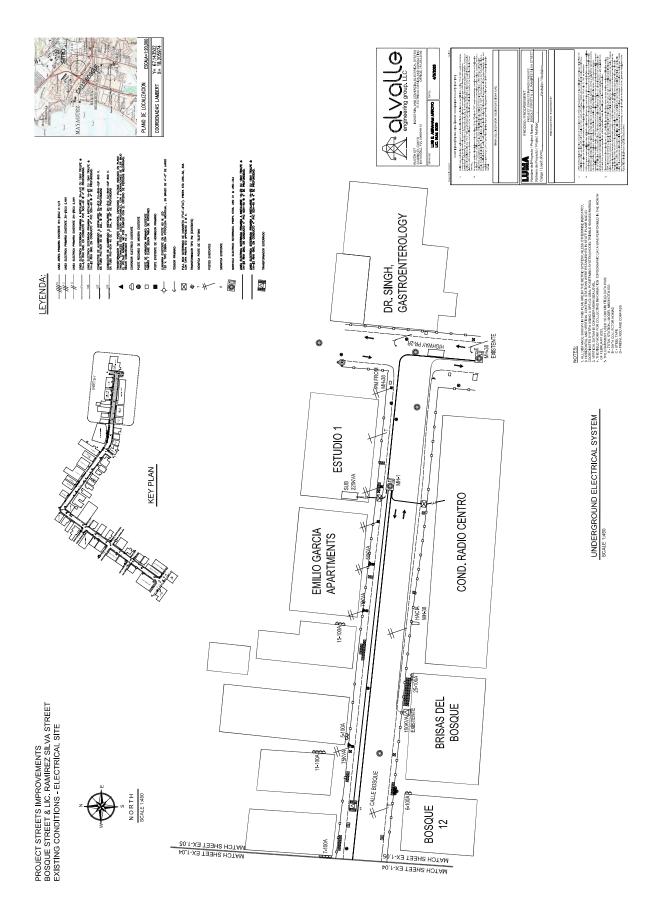


PROVECTO MEJORAS VIALES
PROVECTO MEJORAS VIALES
PROVECTO MEJORAS VIALES EXST. COND. ELECTRICAL E-1.07 MAY 2023

C. BOSQUE / C. DR. BASORA (PR-2) UNDERGROUND ELECTRICAL SYSTEM EXISTING CONDITIONS







INTER PHASE UNDERGROUND SECONDARY FEEDER, 4—1/C #GODINGH-AWG & 1/C #C #CONDARY CONDARY BANCOS DE CONTADORES EXISTENTES A REEMPLAZARSE. VER DETALLES

EXISTENTE

□ • ш

UNDERFROUND CONCRETE ELECTRICAL MANHOLE PREPA STDS. URD-34 & URD-344 (12'x9'x8') AS ORNAMENTAL POLES OR SIMILAR.

SBESTACON THEASICA THO SUMERIBEL 56 GRADOS CELSUS, 300 KW, 13,200–120/240 BLACK-ELS, 40 E. 4,74 (1757 EV) 8-80,0 OLIVEL MONIMAL, CONSTIDUED NA ACERO INOCIDUEL 594, COMPETAMENT SIZE 11, ALMENTACION ROMA, CONSTIDUENT BADE 11, ALMENTACION ROMA, IN PROPER SIZE 11, ALMENTACION ROMA, IN PRESENTE DE CONFERTO PRECAST IND-3.3, 4 (100–3.3), 4 (100–3.3), 4 (100–3.3), 4 (100–3.3), 4 (100–3.3), 4 (100–3.3), 4 (100–3.3), 4 (100–3.3), 5 (100–3.3 () <u>¥</u> [] SUB. 300KVA

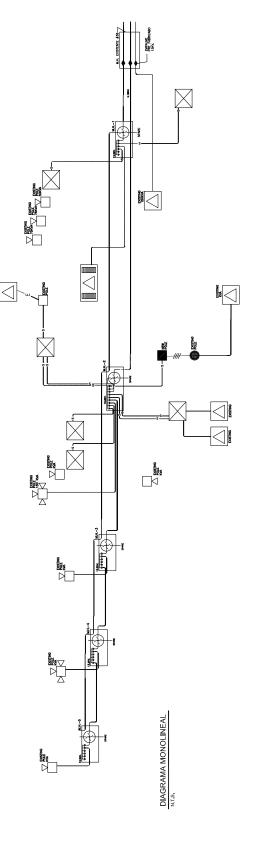
Underground concrete pull, box (7"-0" x 4"-6" x 4"-0") prepa Std. URD-30, urd-30a with roadway cover plate as per prepa Std. Appendixes 3 & 4

UNDERFROUND CONCRETE ELECTRICAL MANHOLE PREPA STDS. URD-33 & URD-33A (10x7/x8) AS ORNAMENTAL POLES OR SIMILAR.



WANGERS, ARCHITECTS, ENGINEERS AND PLANNERS
APPLIED ENGINEERING GROUP

PROJECT STREETS IMPROVEMENTS BOSQUE STREET & LIC. RAMIREZ SILVA STREET EXISTING CONDITIONS - ELECTRICAL SITE







PRIMARY CONNECTION BOXES 6-WAY 15KV-200AMPS THE CONTRACTOR SHALL FURNISH AND INSTALL THE LOAD BREAK ELBOW CONNECTORS. SEE PREPA STD. APPENDIX 17

WOOD WAS THE STATE OF STATE OF

3-1/C #79 UA-CL-15N-UA-DPC WELDS THE MID 1/C #1/O WINCHCOLON-MAN STATEM NO. 1/C #1/O WINCHCOLON-MAN STATEM N. N. P. OF CHA-GONDUR NI 1.120N M.SD WILLIOD IS A 4° PNC SIGN 40 SPARE DRAFF CONDUCT STATEM STATEM NI SPARE DRAFF CONDUCT STATEM STATEM NI SPARE DRAFF SIGN OF CONDUCTE IN A 12.5 NI SECURITY OF CONDUCTE IN ALL SIGN.

LEYENDA:

13-1/C FRO WAR-CLI-AGE NEED-PROPER PROCESS GREEDS THE WAS 1/C F4/O WARCH-CLI-AGOV-AWAR-ACLI-AGE NEEDER IN K 6° FOR CESH-AD CONDUIT. ASSO INCLUCED IS A 6° FOR SENE ACT ONDOIT. CESH-AD FAIR BOTH BOIS. FOR FOREMAN AT 4-16KN. INSTALLED AT 48° BELOW FIR, GROWN FOR GROWN FOR THE ACT OF CONDUIT. ASSO INCLUCED IS A 6° FOR CSH-AD CONDUIT. ASSO INCLUCED IS A 6° FOR CSH-AD CONDUIT. ASSO EXPRINENCES AND SENE EMPT CONDUIT. ASSO EXPRINENCES AT A 15KN FIRSTALED AT 48° BELOW FIN, GROWE BUCKED IN 3°

SECONDARY MOLES-7 CONNECTORS AS PER PREPA STD. URD. APPENDIX 27

3-1/C #4/0 -OU-18KN-TRRIP-PPC JAKKET SHEDED THE MID 1/C #4/0 CU-18KN-TRHEND TO SHED TO SHED THE MID 1/C #4/0 CU-16KN-THHEN THE SHE SHED THE SHED TH -S-

Security Secup. LLC NDUSTRIAL AND COMBRIGHT BLECTRICAL SYSTEM ELECTRICAL DESIGNAND CONSULTING OFFICE: 787,833,9703 4/3/2023 ENDOSO / ENDORSEMENT
PROJECT STREETS MPROVEMENTS
PROJECT STREET & LIC. PRAHIEZ SHUN
Project Number;

EXST. COND. ELECTRICAL E-1 08

MAY 2023

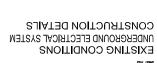
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PROYECTO MEJORAS VIALES CALLE BOSQUE & CALLE LIC. RAMIREZ SILVA MUNICHO DE MAYAGDEZ PR 00000

EXST. COND. ELECTRICAL

E-109

MAY 2023







(3H-#2 THIN & 1#6 GRD, PVC SCH-40 2")

ALMENTADOR #2 RHH, CU, EN PVC, SCH-40 DE 2" © 36" DE PROFUNDIDAD

4. "PVC" CINTA DE PELIGRO AMARILLA CON LETRAS NEGRAS

__ 2 TUBOS DE 6"

SECCION C-C DETALLE DE TRINCHERA NO A ESCALA

LEYENDA

1. TERENO NATURAL

2. RELLENO NATURAL

3. HORMICON DONDE

GRADA CALLE, AGERA

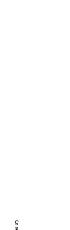
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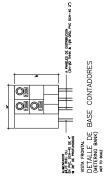
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DETALLE DE BASE CONTADORES
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WITH FRONTAL
DETALLE DE BASE CONTADORES
(METERING BANK)
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ALIMENTADOR 4/0 RHH, CU. EN PVC: SCH-40 DE 4* 0 36* DE PROFUNDIDAD

4. "PVC" CINTA DE PELIGRO AMARILLA CON LETRAS NEGRAS

LEYENDA

1. TERRENO NATURAL

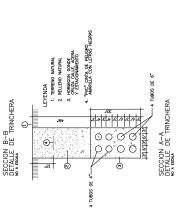
2. RELLENO NATURAL

3. HORANICON DONDE

GRUZO COLLE, MERA

Y ESTACIOMARIENTO

• Fig.



A #1 FORWARD WERDAR IN CONDIDINE DE ESTE TRABAJO ANTES THE REJUDINE DI PROBLECO, IL CONDUCTO DEL ALMENTACINE CUANCO SEA SOTERNADO FI FAS. CHANDO SEA DEPUESTO.	PATRONES DE CONSTRUCCION	
NOTA #1 EL CONTRATISTA VERIFICARA LAS (DE REALIZAR EL TRABAJO, EL COO Y R.G.S. CUANDO SEA EXPUESTO.	PATRONES DI	

	PATRON	PATRONES DE CONSTRUCCION
NO. POSTE	ALTURA Y CLASE	PATRONES
<u> </u>	4003	CP-B5, EXISTENTE
-	45H6	CP-C1,M2-1,M16-2,M16-3,M16-4,URD-4,URD-5
2	9H09	CP-C1,M2-1,M16-2,M16-3,M16-4,URD-4,URD-5
ъ	9H09	CP-C1,M2-1,M16-2,M16-3,M16-4,URD-4,URD-5
4	45H6	CP-A5,M2-1,M16-2,M16-3,M16-4,URD-4,URD-5

OF ALM OF OR OTHER PARTY.	PROJECT VIREETVIMPROVEMENTS	BOSQUE STREET & LIC. RAMIREZ SILVA STREET	THE INCIDENCE OF SHIPE
TTO TO TO	AROJECI SIR	30SQUE STRI	EXICTING CONT



Contamination and toxic substances



Attachment 7A: EPA Contamination and Toxic Substances

Project Name: Improvements to Bosque and Lic. A Ramírez Silva Streets, Municipality of Mayagüez Location: Bosque Street (Lat:18.204804, Long: -67.140518) and Ramírez Silva Street (Lat: 18.203980,

Long: -67.145075)

Source: NEPA Assist Tool

Website: hZps://fwsprimary.wim.usgs.gov/CBRSMapper-v2/

Prepared by: Applied Engineering Group

ID	EPA Facility	Distance from Project Site	Direction from Project Site	Description	Compliance Status
1	CAA	3,432	W	FLORES BROS CEMENT	Non Violation identified
2	RCRA	1,695 ft	NW	Farmacia el Amal #4	Non Violation identified
3	RCRA	1,615 ft	N	UPR-MAYAGUEZ CAMPUSOFICINA DEL RECTOR	Unknown
4	RCRA	1,430 ft	NW	ESSO STANDARD OIL SS CO-300	Non Violation identified
5	CAA, CWA, EPCRA, AND RCRA	890 ft	NW	COMPANIA CERVECERA DE PUERTO RICO, INC.	Unkown for CAA; violation for CWA; unkwon for EPCRA and non violation for RCRA
6	SDWA	2,747 ft	S	PR PUBLIC HOUSING - RES YAGUEZ	Non Violation identified
7	RCRA	1700 ft	N	UNIVERSITY OF PUERTO RICO MAYAGUEZ CAMPUS	Non Violation identified
8	CWA	1,150 ft	SE	MAYAGUEZ MUNICIPALITY PUBLIC WORKS CENTER	Non Violation identified
9	RCRA	1,236 ft	SE	HOSPITAL PEREA	Non Violation identified
10	CAA AND RCRA	2,062 ft	NE	USDA ARS PR TROPICAL AGRICULTURE RESEARCH STATION, MAYAGUEZ SITE	Non Violation identified

Attachment 7B: EPA Contamination and Toxic Substances

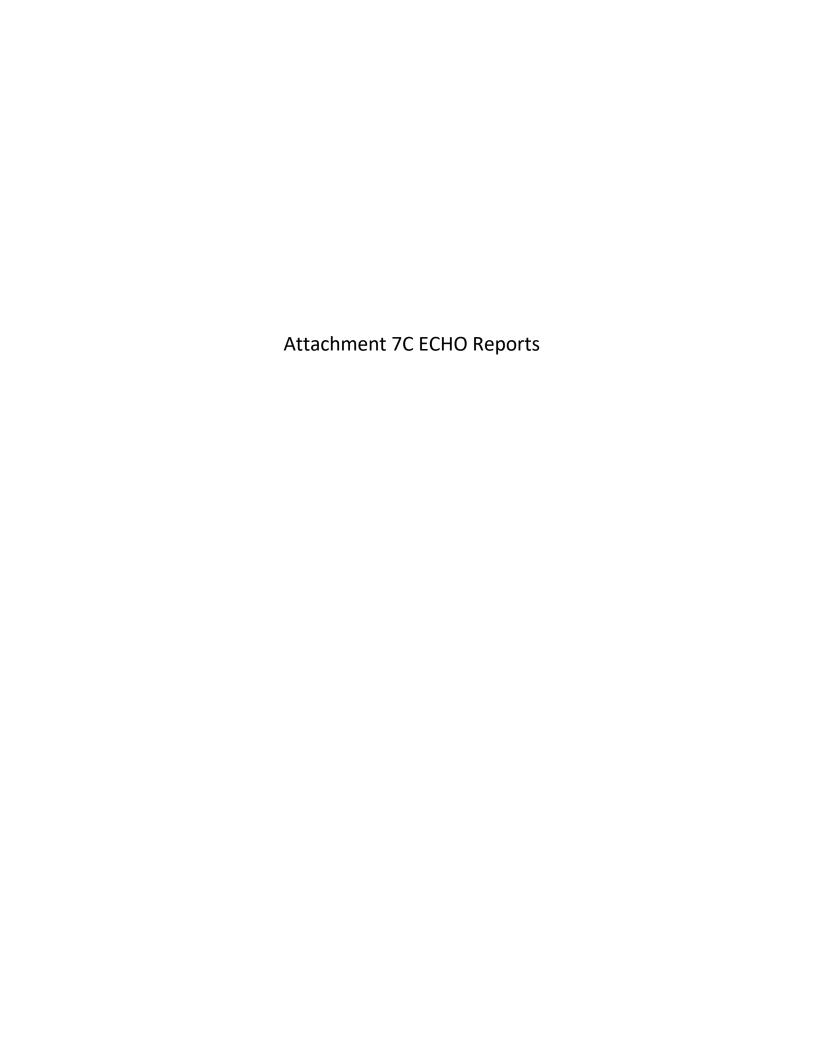
Project Name: Improvements to Bosque and Lic. A Ramírez Silva Streets, Municipality of Mayagüez Location: Bosque Street (Lat:18.204804, Long: -67.140518) and Ramírez Silva Street (Lat: 18.203980,

Long: -67.145075)

Source: EPA ECHO REPORTS

Website: https://echo.epa.gov/facilities/facility-search/results

Prepared by: Applied Engineering Group





Detailed Facility Report

Facility Summary
HOSPITAL PEREA

BASORA NO 15, MAYAGUEZ, PR 00681

FRS (Facility Registry Service) ID: 110071192833

EPA Region: 02 Latitude: 18.20296 Longitude: -67.139736

Locational Data Source: UNKNOWN

Industries: Hospitals
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

Other Regulatory Reports

 Clean Air Act (CAA): No Information
 Air Emissions Inventory (EIS): No Information

 Clean Water Act (CWA): No Information
 Greenhouse Gas Emissions (eGGRT): No Information

Resource Conservation and Recovery Act (RCRA): Active SQG, (PRR000027417) Toxic Releases (TRI): No Information

Safe Drinking Water Act (SDWA): No Information Compliance and Emissions Data Reporting Interface (CEDRI): No Information

Go To Enforcement/Compliance Details

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

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110071192833					N		
RCRAInfo	RCRA	PRR000027417	SQG	Active (H)			N	18.20296	-67.139736

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110071192833	HOSPITAL PEREA	BASORA NO 15, MAYAGUEZ, PR 00681	Mayagüez Municipio
RCRAInfo	RCRA	PRR000027417	HOSPITAL PEREA	BASORA NO 15, MAYAGUEZ, PR 00681-0170	Mayagüez Municipio

Facility SIC (Standard Industrial Classification) Codes

Facility NAICS (North American Industry Classification System) Codes

No data records returned

SIC Description NAICS Code PRR000027417 General Medical and Surgical Hospitals 62211 No data records returned Facility Tribe Information Tribe Name EPA Tribal ID Distance to Tribe (miles)

Enforcement and Compliance

Compliance Monitoring History

Last 5 Years

Finding (if applicable)

No data records returned

Entries in italics are not included in ECHO's Compliance Monitoring Activity counts because they are not compliance monitoring strategy

<https://www.epa.gov/compliance/compliance-monitoring-programs> activities or because they are not counted as inspections within EPA's Annual Results

https://www.epa.gov/enforcement/enforcement-data-and-results.

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
RCRA	PRR000027417	No	03/15/2025	0	03/14/2025

Three-Year Compliance History by Quarter

Statute	Program/Polluta Type		QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11
RCRA	(Source ID: PRR00	00027417)	04/01-06/30/22	07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01-03/31/24	04/01-06/30/24	07/01-09/30/24	10/01-12/31/24
	Facility-Leve	el Status	No Violation Identified										
	Violation	Agency											

Informal Enforcement Actions

Last 5 Years

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

Federal Penalty State/ Local Penalty

No data records returned

Environmental Conditions

Watersheds

12-Digit WBD (Watershed Boundary WBD (Watershed Boundary Dataset) State Water Body Name (ICIS **Beach Closures** Watershed with ESA (Endangere Closures Subwatershed Name (RAD (Reach Address Database)) et) HUC (RAD (Reach Address entially Related ecies Act)-listed Aquati System)) Species? Database)) to Impairment

No data records returned

Assessed Waters From Latest State Submission (ATTAINS)

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

No data records returned

Air Quality Nonattainment Areas

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

No data records returned

Pollutants

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

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

No data records returned

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

Chemical Name
No data records returned

Community

Land Area Water Area

Demographic Profile of Surrounding Area (1-Mile Radius)

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

2 7 11 9 1 11 1	, , ,					
General Statistics (ACS (American Community Survey))						
Total Persons	16,731					
Population Density	5,607/sq.mi.					
Housing Units in Area	12,028					
Percent People of Color	100%					
Households in Area	7,538					
Households on Public Assistance	675					
Persons With Low Income	14,435					
Percent With Low Income	88%					
Geography						
Radius of Selected Area	1 mi.					
Center Latitude	18.20296					
Center Longitude	-67.139736					
Total Area	3.121 sq.mi.					

Income Breakdown (ACS (American Community Survey)) - Households (%)							
Less than \$15,000	4,707 (62.44%)						
\$15,000 - \$25,000	1,192 (15.81%)						
\$25,000 - \$50,000	1,085 (14.39%)						
\$50,000 - \$75,000	312 (4.14%)						
Greater than \$75,000	243 (3.22%)						

Age Breakdown (ACS (American Community Survey)) - Persons (%)						
Children 5 years and younger	542 (3%)					
Minors 17 years and younger	2,457 (15%)					
Adults 18 years and older	14,275 (85%)					
Seniors 65 years and older	3,897 (23%)					

Race Breakdown (ACS (American Community Survey)) - Persons (%)						
White	2,609 (16%)					
African-American	506 (3%)					
Hispanic-Origin	16,681 (100%)					
Asian	27 (0%)					
Hawaiian/Pacific Islander	0 (0%)					
American Indian	3 (0%)					
Other/Multiracial	12,641 (76%)					

Education Level (Persons 25 & older) (ACS (American Community Surve	ey)) - Persons (%)					
Less than 9th Grade 1,						
9th through 12th Grade	1,118 (10.93%)					
High School Diploma	3,277 (32.05%)					
Some College/2-year	1,478 (14.45%)					
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	2,044 (19.99%)					



Detailed Facility Report

Facility Summary

COMPANIA CERVECERA DE PUERTO RICO, INC.

100 BLVD. ALFONSO VALDEZ, MAYAGUEZ, PR 00680

FRS (Facility Registry Service) ID: 110000307757

EPA Region: 02 Latitude: 18.206944 Longitude: -67.141667 Locational Data Source: TRIS

Industries: Beverage and Tobacco Product Manufacturing

Indian Country: N

Enforcement and Compliance Summary

y					
Statute	CAA				
Compliance Monitoring Activities (5 years)	1				
Date of Last Compliance Monitoring Activity	02/07/2023				
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)	1				
Penalties from EPA Cases (5 years)	\$6,900				
Statute	CWA				
Statute Compliance Monitoring Activities (5 years)	CWA				
Compliance Monitoring Activities (5 years)	-				
Compliance Monitoring Activities (5 years) Date of Last Compliance Monitoring Activity	 12/13/2007				
Compliance Monitoring Activities (5 years) Date of Last Compliance Monitoring Activity Compliance Status	12/13/2007 Violation Identified				
Compliance Monitoring Activities (5 years) Date of Last Compliance Monitoring Activity Compliance Status Qtrs in Noncompliance (of 12)	12/13/2007 Violation Identified 4				
Compliance Monitoring Activities (5 years) Date of Last Compliance Monitoring Activity Compliance Status Qtrs in Noncompliance (of 12) Qtrs with Significant Violation	T2/13/2007 Violation Identified 4				
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)	12/13/2007 Violation Identified 4 0				
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)	12/13/2007 Violation Identified 4 0				

Statute	EPCRA
Compliance Monitoring Activities (5 years)	1

Date of Last Compliance Monitoring Activity	02/10/2023	
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	03/13/2013	
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)		

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Toxic Releases (TRI): 00709CRVCRCALLE

Greenhouse Gas Emissions (eGGRT): No Information

Regulatory Information

Clean Air Act (CAA): No Information

Clean Water Act (CWA): Non-Major, Permit Effective (PRR053120), Non-Major,

Permit Terminated; Compliance Tracking Off (PR0001341)

Resource Conservation and Recovery Act (RCRA): Active SQG, (PRD090096769) Compliance and Emissions Data Reporting Interface (CEDRI): No Information

Safe Drinking Water Act (SDWA): No Information

Go To Enforcement/Compliance Details

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

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110000307757					N	18.206944	-67.141667
ICIS		3601501718					N	18.206944	-67.141667
ICIS		35811					N	18.206944	-67.141667
RMP	CAA	100000182312		ACTIVE			N	18.206944	-67.141667
SEMS	CERCLA	PRC200400182		NOT ON THE NPL			N	18.18034	-67.131584
ICIS-NPDES	CWA	PRR053120	Non-Major: General Permit Covered Facility	Effective	Industrial Stormwater	02/28/2026	N	18.206814	-67.143086
ICIS-NPDES	CWA	PR0001341	Non-Major: NPDES Individual Permit	Terminated; Compliance Tracking Off		10/31/2011	N	18.208889	-67.1425
TRI	EP313	00709CRVCRCALLE	Toxics Release Inventory	Last Reported for 2023			N	18.206944	-67.141667
RCRAInfo	RCRA	PRD090096769	SQG	Active (H)			N	18.206777	-67.143047

Facility Address

System	System Statute Identifier Facility Name		Facility Name	Facility Address	Facility County
FRS		110000307757	COMPANIA CERVECERA DE PUERTO RICO, INC.	100 BLVD. ALFONSO VALDEZ, MAYAGUEZ, PR 00680	Mayagüez Municipio
ICIS	ICIS 3601501718 COMPANIA CERVECERA DE PUERTO RICO, INC.		COMPANIA CERVECERA DE PUERTO RICO, INC.	100 BLVD. ALFONSO VALDEZ, MAYAGUEZ, PR 00680	Mayagüez Municipio
ICIS		35811	CERVECERIA INDIA INC	INSULAR RD R2 BARRIO ALGARRABO, MAYAGUEZ, PR 00680	Mayagüez Municipio

RMP	CAA	100000182312	COMPANIA CERVECERA DE PUERTO RICO, INC.	100 BLVD. ALFONSO VALDES, MAYAGUEZ, PR 00680	Mayagüez Municipio
SEMS	SEMS CERCLA PRC200400182 CERVECERIA INDIA INC. AMMONIA RELEASE		CERVECERIA INDIA INC. AMMONIA RELEASE	100 BOULEVARD ALFONSO VALDES, MAYAGUEZ, PR 00680	
ICIS-NPDES	CWA	PRR053120	COMPAÑÍA CERVECERA DE PUERTO RICO, INC.	# 100 BOULEVARD ALFONSO VALDES, MAYAGUEZ, PR 00680	Mayagüez Municipio
ICIS-NPDES	CWA	PR0001341	CERVECERIA INDIA INC	INSULAR ROAD 2, MAYAGUEZ, PR 00708	Mayagüez Municipio
TRI	EP313	00709CRVCRCALLE	COMPANIA CERVECERA DE PUERTO RICO INC.	BLVD ALFONSO VALDES #100, MAYAGUEZ, PR 00680	Mayagüez Municipio
RCRAInfo	RCRA	PRD090096769	COMPANIA CERVECERA DE PUERTO RICO INC	ALFONSO VALDES BLVD #100, MAYAGUEZ, PR 00680	Mayagüez Municipio

Facility SIC (Standard Industrial Classification) Codes

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	SIC Code	SIC Description	System	Identifier	NAICS Code	NAICS Descri
TRI	00709CRVCRCALLE	2082	Malt Beverages	TRI	00709CRVCRCALLE	311213	Malt Manufacturing
TRI	00709CRVCRCALLE	2083	Malt	TRI	00709CRVCRCALLE	312120	Breweries
ICIS-NPDES	PR0001341	2082	Malt Beverages	RMP	100000182312	311213	Malt Manufacturing
ICIS-NPDES	PRR053120	2041	Flour And Other Grain Mill Products	RMP	100000182312	31212	Breweries
ICIS-NPDES	PRR053120	2082	Malt Beverages	RCRAInfo	PRD090096769	312120	Breweries
ICIS-NPDES	PRR053120	4225	General Warehousing And Storage	Es silid.	. Muiba Infauna		
				racillity	Tribe Inform	เลเบบท	

Facility Industrial Effluent Guidelines

No data records returned

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)
CAA	100000182312	ICIS	Inspection/Evaluation	112(r)(7) Inspection	EPA	02/07/2023	
EPCRA	3601501718	ICIS	Inspection/Evaluation	Chemical Inventory Audit	EPA	02/10/2023	

Entries in italics are not included in ECHO's Compliance Monitoring Activity counts because they are not compliance monitoring strategy

<https://www.epa.gov/compliance/compliance-monitoring-programs> activities or because they are not counted as inspections within EPA's Annual Results

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
CWA	PRR053120	No	09/30/2024	4	03/14/2025
CWA	PR0001341	No	09/30/2024	0	03/14/2025
RCRA	PRD090096769	No	03/15/2025	0	03/14/2025

Three-Year Compliance History by Quarter

Statute	Program/Pollutant/Vio	olation	Туре		QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	Q
	CWA (Source ID: PRR053	120)			10/01-12/31/21	01/01-03/31/22	04/01-06/30/22	07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01
	Facility-Level S	tatus			No Violation Identified	Violation Identified	Vid Ide							
	Quarterly Noncompliance	Report	t History										Reportable Noncompliance	Rep
	Benchmark Threshold Exceedances (No Violation): Pollutant	Disch Point		Freq										
CWA	Solids, total suspended <effluent- 00530="" charts#prr053120=""> https://epa.gov/effluent-charts#prr053120/00530></effluent->	002 - U1	Effluent Gross	NMth	404%	124%	241%	188%	145%		73%			
CWA	Solids, total suspended <effluent- 00530="" charts#prr053120=""> https://epa.gov/effluent-charts#prr053120/00530></effluent->	003 - U1	Effluent Gross	NMth					271%		375%			

https://www.epa.gov/enforcement/enforcement-data-and-results.

	Late or Missing Discharge N Measure		(DMR)										
	Counts of Missing DMR Measure	ements									6		
	CWA (Source ID: PRO	001341)		10/01-12/31/21	01/01-03/31/22	04/01-06/30/22	07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01
	Facility-Lev	el Status		Terminated Permit	Teri P								
	Quarterly Noncomplia	nce Report Histo	ry										
	Permit Schedul	le Violations											
CWA	Status/Progress Report			02/15/2004	→								
CWA	Implement Storm Water Polluti (SWPPP)	on Prevention Pla	n	08/01/2004	-	-	→	→	→	-	-	→	
	Compliance Schedule	· Violations	Case No.										
CWA	Cease Discha	rge		10/15/2003	→	→	-	→	→	→	→	→	
CWA	Compliance P	lan		11/15/2003	→	-	-	-	→	→	→	→	
CWA	Study Plan			03/01/2004	→	→	→	-	→	→	→	→	
CWA	Apply for Storm Wat	er Permit		06/01/2004	→	→	-	-	→	→	→	-	
CWA	Commence Storm Wat	er Sampling		08/01/2004	→	→	-	-	→	→	-	→	
CWA	Permit Applica	tion		09/30/2004	→	→	-	-	→	→	→	→	
CWA	Storm Water Pollution Prever	ntion Plan (SWPPP	02- 2007- 3001	09/06/2007	→								
Statute	Program/Pollutant/Violation Type	QTR 1	QTR	2 QTR	3 QTR	4 QTR	5 QTF	6 QTR	7 QTR	8 QTR	9 QTR:	10 QTR	11
RCRA	(Source ID: PRD090096769)	04/01-06/30/22	07/01-09/	30/22 10/01-12/	31/22 01/01-03	/31/23 04/01-06	/30/23 07/01-09	/30/23 10/01-12/	31/23 01/01-03/	31/24 04/01-06	/30/24 07/01-09	/30/24 10/01-12	/31/24
	Facility-Level Status	No Violation Identified	No Viola Identif										
	Violation Agency												

Informal Enforcement Actions Last 5 Years

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

St	atute	System	Law/ Section	Source ID	Type of Action	Case No.	Lead Agency	Case Name	Issued/ Filed Date	Settlements/ Actions	Settlement/ Action Date	Federal Penalty Assessed	State/ Local Penalty Assessed	Penalty Amount Collected	SEP Value	Comp Action Cost
	CAA	ICIS	112[R] [7]	RMP/100000182312	Administrative - Formal	02- 2024- 1208	EPA	Compania Cervecera de Puerto Rico, Inc.	03/07/2024	1	03/07/2024	\$6,900	\$0		\$0	\$14,900

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?
210100030301	Rio Yaguez	RIO YAGUEZ, YAGUEZ RIVER	No	No	Chromium, hexavalent (as Cr) Enterococci	Yes

Assessed Waters From Latest State Submission (ATTAINS)

Stat	Report Cycle	Assessment Unit ID	Assessment Unit Name	Water Condition	Cause Groups Impaired	Drinking Water Use	Ecological Use	Fish Consumption Use	Recreation Use	Other Use
PR	2022	PRWR79A	RIO YAGUEZ	Impaired - 303(d) Listed - With	METALS (OTHER THAN MERCURY)	Fully Supporting	Not		Not	

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 Air Pollutant Report Released or Transferred in Pounds per Year at Site

TRI Facility ID	Year	Air Emissions	Surface Water Discharges	Off-Site Transfers to POTWs (Publicly Owned Treatment Works)	Underground Injections	Disposal to Land	Total On-Site Releases	Total Off-Site Transfers
00709CRVCRCALLE	2023	5	5	24,992			10	24,992
00709CRVCRCALLE	2022	5		30,924			5	30,924
00709CRVCRCALLE	2021	5		62,358			5	62,358
00709CRVCRCALLE	2020	10		31,180			10	31,180
00709CRVCRCALLE	2019	5		37,687			5	37,687
00709CRVCRCALLE	2018	5		47,700			5	47,700
00709CRVCRCALLE	2017	5		31,100			5	31,100
00709CRVCRCALLE	2016	5		35,000			5	35,000
00709CRVCRCALLE	2015	5		38,152			5	38,152
00709CRVCRCALLE	2014	5		39,152			5	39,152

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

Chemical Name	2023	2022	2021	2020	2019	2018	2017	2016	2015	2014
Nitrate compounds (water dissociable; reportable only when in aqueous solution)	24,997	30,924	62,358	31,180	37,687	47,700	31,100	35,000	38,152	39,152
Nitric acid	5	5	5	10	5	5	5	5	5	5

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

DMR and TRI Multi-Year Loading Report

Description

NPDES ID

No data records returned

e-Manifest Hazardous Waste History (Public)

Hazardous Waste Shipped in Kilograms by Year (Through 12/14/2024)

Source ID	Waste Description	2022	2023	2024	2025
PRD090096769	Hazardous Waste	205	127	225	
PRD090096769	Acute Hazardous Waste	0	0	0	
PRD090096769	Pharmaceutical Hazardous Waste	0	0	0	

[&]quot;Pharmaceutical Hazardous Waste" refers to quantities managed under 40 CFR part 266 subpart P and thus excluded from the Hazardous and Acute Hazardous Waste quantities shown above.

Community

Demographic Profile of Surrounding Area (1-Mile Radius)

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

General Statistics (ACS (American Community Survey))	
Total Persons	16,861
Population Density	5,775/sq.mi.
Housing Units in Area	12,118
Percent People of Color	100%
Households in Area	7,563
Households on Public Assistance	612
Persons With Low Income	14,636
Percent With Low Income	89%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.206944
Center Longitude	-67.141667
Total Area	3.121 sq.mi.
Land Area	94%
Water Area	6%

Income Breakdown (ACS (American Community Survey)) - Households (%)
Less than \$15,000	4,731 (62.58%)
\$15,000 - \$25,000	1,216 (16.08%)
\$25,000 - \$50,000	1,043 (13.8%)
\$50,000 - \$75,000	298 (3.94%)
Greater than \$75,000	272 (3.6%)

Age Breakdown (ACS (American Community Survey)) - Persons (%)									
Children 5 years and younger	547 (3%)								
Minors 17 years and younger	2,306 (14%)								
Adults 18 years and older	14,557 (86%)								
Seniors 65 years and older	3,806 (23%)								

Race Breakdown (ACS (American Community Survey)) - Persons (%)								
White	2,536 (15%)							
African-American	497 (3%)							
Hispanic-Origin	16,788 (100%)							
Asian	28 (0%)							
Hawaiian/Pacific Islander	0 (0%)							
American Indian	5 (0%)							
Other/Multiracial	12,849 (76%)							

Education Level (Persons 25 & older) (ACS (American Community Surve	y)) - Persons (%)
Less than 9th Grade	1,604 (16.08%)
9th through 12th Grade	1,085 (10.88%)
High School Diploma	3,211 (32.19%)
Some College/2-year	1,423 (14.27%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	2,054 (20.59%)



Detailed Facility Report

Facility Summary

MAYAGUEZ MUNICIPALITY PUBLIC WORKS CENTER

PR-108 KM 3.2, MAYAGUEZ, PR 00681

FRS (Facility Registry Service) ID: 110006622191

EPA Region: 02 **Latitude:** 18.201101 **Longitude:** -67.134946

Locational Data Source: Zip Code Centroid

Industries: -Indian Country: N

Enforcement and Compliance Summary

Statute	CWA
Compliance Monitoring Activities (5 years)	-
Date of Last Compliance Monitoring Activity	09/11/2019
Compliance Status	No Violation Identified
Qtrs in Noncompliance (of 12)	10
Qtrs with Significant Violation	10
Informal Enforcement Actions (5 years)	-
Formal Enforcement Actions (5 years)	-
Penalties from Formal Enforcement Actions (5 years)	-
EPA Cases (5 years)	-
Penalties from EPA Cases (5 years)	-

Regulatory Information

Clean Air Act (CAA): No Information

Clean Water Act (CWA): Non-Major, Permit Effective (PRL023396), Non-Major, Permit Terminated; Compliance Tracking Off (PR0023396)

Resource Conservation and Recovery Act (RCRA): No Information

Safe Drinking Water Act (SDWA): No Information

Go To Enforcement/Compliance Details

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

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110006622191					N		
ICIS		44248					N		
ICIS-NPDES	CWA	PRL023396	Non-Major: Associated Permit Record	Effective	Biosolids	12/31/2025	N		
ICIS-NPDES	CWA	PR0023396	Non-Major: NPDES Individual Permit	Terminated; Compliance Tracking Off		09/30/2025	N	18.244167	-66.034444

Facility Address

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Toxic Releases (TRI): No Information

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

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110006622191	MAYAGUEZ MUNICIPALITY PUBLIC WORKS CENTER	PR-108 KM 3.2, MAYAGUEZ, PR 00681	Mayagüez Municipio
ICIS		44248	MAYAGUEZ MUNICIPALITY PUBLIC WORKS CENTER	STATE ROAD 108 KM 3.2, MAYAGUEZ, PR 00681	Mayagüez Municipio
ICIS-NPDES	CWA	PRL023396	MAYAGUEZ MUN GOVT-PUB WORKS CT	STATE ROAD #108, MAYAGUEZ, PR 00681	
ICIS-NPDES	CWA	PR0023396	MUNICIPAL PUBLIC WORKS	STATE ROAD #108, KM 3.2, MAYAGUEZ, PR 00708	Mayagüez Municipio

Facility SIC (Standard Industrial Classification) Codes

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	SIC Code	SIC Description	System	Identifier	NAICS Code	NAICS Description		
ICIS-NPDES	PR0023396	9111	Executive Offices	No data records returned					
					INC	data records return	cu		

Facility Industrial Effluent Guidelines

Facility Tribe Information

Identifier	Effluent Guideline (40 CFR Part)	Effluent Guideline Description	Reservation Name	Tribe Name	EPA Tribal ID	Distance to Tribe (miles)		
PR0023396	000	No Applicable Effluent Guidelines						
			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)								
	Statute	Source ID	System	Activity Type	Compliance Monitoring Type	Lead Agency	Date	Finding (if applicable)

No data records returned

Entries in italics are not included in ECHO's Compliance Monitoring Activity counts because they are not compliance monitoring strategy

- $< https://www.epa.gov/compliance/compliance-monitoring-programs > \it activities \ or \ because \ they \ are \ not \ counted \ as \ inspections \ within \ EPA's \ Annual \ Results \ annual \ Results \ are \ not \ counted \ as \ inspections \ within \ EPA's \ Annual \ Results \ are \ not \ counted \ as \ inspections \ within \ EPA's \ Annual \ Results \ are \ not \ counted \ as \ inspections \ within \ EPA's \ Annual \ Results \ are \ not \ counted \ as \ inspections \ within \ EPA's \ Annual \ Results \ are \ not \ counted \ as \ inspections \ within \ EPA's \ Annual \ Results \ are \ not \ counted \ as \ inspections \ within \ EPA's \ Annual \ Results \ are \ not \ counted \ as \ inspections \ within \ EPA's \ Annual \ Results \ are \ not \ not$
- https://www.epa.gov/enforcement/enforcement-data-and-results.

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
CWA	PRL023396	No	09/30/2024	0	03/14/2025
CWA	PR0023396	No	09/30/2024	10	03/14/2025

Three-Year Compliance History by Quarter

Statute	Program/Pollutant/V	iolatior	туре		QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	
	CWA (Source ID: PRL02	3396)			10/01-12/31/21	01/01-03/31/22	04/01-06/30/22	07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/
	Facility-Level			No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	N	
	Quarterly Noncompliano	rt History										
	CWA (Source ID: PR002			10/01-12/31/21	01/01-03/31/22	04/01-06/30/22	07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/	
	Facility-Level	Status			Significant/Category I Noncompliance	Signif I No						
	Quarterly Noncompliance Report History				Failure to Report DMR - Not Received	Effluent - Non- monthly Average Limit	Eff					
	Pollutant Disch Point Mon Loc Freq											
CWA	BOD, 5-day, percent removal <effluent-charts#pr0023396 81010=""></effluent-charts#pr0023396>	001 - A	Percent Removal	Neither	373%	40%		180%	180%	267%	40%	
CWA	Color [PT-CO units] <effluent-charts#pr0023396 00080=""> </effluent-charts#pr0023396>	001 - Q	Effluent Gross	NMth							LIMIT VIOLATION	
	Enterococci <effluent- charts#pr0023396/61211></effluent- 											
CWA		001 - A	Effluent Gross	NMth			152%					

	<pre><https: effluent-<br="" epa.gov="">charts#pr0023396/61211></https:></pre>										
CWA	Nitrogen, total [as N] <effluent-charts#pr0023396 00600=""></effluent-charts#pr0023396>	001 - A	Effluent Gross	NMth			43%	41%		14%	241%
	charts#pr0023396/00600> Oxygen, dissolved [DO] <effluent-< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></effluent-<>										
CWA	charts#pr0023396/00300> https://epa.gov/effluent-charts#pr0023396/00300>	001 - A	Effluent Gross	Neither				2%			
CWA	Phosphorus, total [as P] <effluent- 00665="" charts#pr0023396=""> https://epa.gov/effluent-charts#pr0023396/00665></effluent->	001 - A	Effluent Gross	NMth				14%			496
CWA	Solids, suspended percent removal <effluent-charts#pr0023396 81011=""> https://epa.gov/effluent-charts#pr0023396/81011></effluent-charts#pr0023396>	001 - A	Percent Removal	Neither	347%	140%		567%	280%	567%	
CWA	Solids, total dissolved <effluent- 70295="" charts#pr0023396=""> https://epa.gov/effluent- charts#pr0023396/70295></effluent->	001 - A	Effluent Gross	NMth	9%		107%	30%	23%		
CWA	Solids, total suspended <effluent- 00530="" charts#pr0023396=""> https://epa.gov/effluent- charts#pr0023396/00530></effluent->	001 - A	Effluent Gross	Mthly	151%			297%			
CWA	Solids, total suspended <effluent- 00530="" charts#pr0023396=""> https://epa.gov/effluent-charts#pr0023396/00530></effluent->	001 - A	Effluent Gross	NMth	68%			164%			
CWA	Surfactants [MBAS] <effluent-charts#pr0023396 38260=""> Ahttps://epa.gov/effluent-charts#pr0023396/38260></effluent-charts#pr0023396>	001 - A	Effluent Gross	NMth			18%			42%	
	Late or Missing Discharge Mon Measureme		Report (D	OMR)		1	1	1	1	1	1
	Counts of Late DMR Measurements				72	69	75	72	72	46	23
	Counts of Missing DMR Measuremen	its			3	6		5	3	3	3

Informal Enforcement Actions

Last 5 Years

Lead Agency

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/	Source	Type of	Case	Lead	Case	Issued/ Filed	Settlements/	Settlement/	Federal Penalty	State/ Local Penalty	Penalty Amount	SEP	Comp Action
Statute System	Section	ID	Action	No.	Agency	Name	Date	Actions	Action Date	Assessed	Assessed	Collected	Value	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?
210100050404	Rio Caguitas	QB DE LOS MUERTS	No	No	Ammonia & ammonium- total Enterococci Nitrogen, total (as N) Phosphorus, total (as P) Solids, suspended percent removal Solids, total suspended Surfactants (MBAS) Temperature, water deg. centigrade Turbidity	Yes

Assessed Waters From Latest State Submission (ATTAINS)

State	Report Cycle	Assessment Unit ID	Assessment Unit Name	Water Condition	Cause Groups Impaired	Drinking Water Use	Ecological Use	Fish Consumption Use	Recreation Use	Other Use
PR	2022	PRER14I	RIO CAGUITAS	Impaired - 303(d) Listed - With Restoration Plan	METALS (OTHER THAN MERCURY) NUTRIENTS OTHER CAUSE PATHOGENS TEMPERATURE TURBIDITY	Not Supporting	Not Supporting		Not Supporting	

Air Quality Nonattainment Areas

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

Pollutants

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

TRI Facility ID Year Air Emissions Surface Water Discharges Off-Site Transfers to POTWs (Publicly Owned Treat

No data records returned

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

No data records returned

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

DMR and TRI Multi-Year Loading Report

NPDES ID	Description		2020	2021	2022	2023
PR0023396	DMR Pollutant Loadings (lb/year)	439	0	67.06	566	0
PR0023396	DMR Pollutant Loadings - Load Over Limit (lb/year)		0	0	152	0
PR0023396	DMR Conventional Loadings (lb/year)				8.69	
PR0023396	DMR Conventional Loadings - Load Over Limit (lb/year)				0	
PR0023396	DMR Toxic-Weighted Loadings (lb-eq/year)		0	0.0004	0.0018	0
PR0023396	DMR Toxic-Weighted Loadings - Load Over Limit (lb-eq/year)	1.46	0	0	0	0

Community

Demographic Profile of Surrounding Area (1-Mile Radius)

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

No demographic profile information available for this facility.



Facility Summary

USDA ARS PR TROPICAL AGRICULTURE RESEARCH STATION, MAYAGUEZ SITE

2200 PEDRO ALBIZU CAMPOS AVE. , SUITE 201, MAYAGUEZ, PR 00680

FRS (Facility Registry Service) ID: 110030900023

EPA Region: 02 Latitude: 18.20658 Longitude: -67.13651 Locational Data Source: FRS

Industries: Professional, Scientific, and Technical Services

Indian Country: N

Enforcement and Compliance Summary

Statute	CAA		
Compliance Monitoring Activities (5 years)	-		
Date of Last Compliance Monitoring Activity	04/18/2007		
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)	-		
Statute	CWA		
Statute Compliance Monitoring Activities (5 years)	CWA		
Compliance Monitoring Activities (5 years)	-		
Compliance Monitoring Activities (5 years) Date of Last Compliance Monitoring Activity	 04/18/2007		
Compliance Monitoring Activities (5 years) Date of Last Compliance Monitoring Activity Compliance Status	 04/18/2007 Not Applicable		
Compliance Monitoring Activities (5 years) Date of Last Compliance Monitoring Activity Compliance Status Qtrs in Noncompliance (of 12)	04/18/2007 Not Applicable		
Compliance Monitoring Activities (5 years) Date of Last Compliance Monitoring Activity Compliance Status Qtrs in Noncompliance (of 12) Qtrs with Significant Violation	04/18/2007 Not Applicable 0		
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)	04/18/2007 Not Applicable 0		
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)	04/18/2007 Not Applicable 0		

Statute	RCRA
Compliance Monitoring Activities (5 vears)	

Compunition my neutrines (o years)			
Date of Last Compliance Monitoring Activity	04/18/2007		
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): Operating Minor (PR0000007209700069)

Clean Water Act (CWA): Non-Major, (PRU201701)

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

(PR8120560182)

Safe Drinking Water Act (SDWA): No Information

Go To Enforcement/Compliance Details

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

Other Regulatory Reports

Toxic Releases (TRI): No Information

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): 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		110030900023					N	18.20658	-67.13651
ICIS		600026225					N	18.20658	-67.13651
ICIS-Air	CAA	PR0000007209700069	Minor Emissions	Operating	CAACFC		N	18.20658	-67.13651
ICIS-NPDES	CWA	PRU201701	Non-Major: Unpermitted Facility				N	18.20658	-67.13651
RCRAInfo	RCRA	PR8120560182	Other	Inactive ()			N		

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110030900023	USDA ARS PR TROPICAL AGRICULTURE RESEARCH STATION, MAYAGUEZ SITE	2200 PEDRO ALBIZU CAMPOS AVE., SUITE 201, MAYAGUEZ, PR 00680	Mayagüez Municipio
ICIS		600026225	TROPICAL AGRICULTURAL RESEARCH STATION	2200 PEDRO ALBIZU CAMPOS AVENUE, MAYAGUEZ, PR 00680	Mayagüez Municipio
ICIS-Air	CAA	PR0000007209700069	TARS - MAYAGUEZ	2200 PEDRO ALBIZU CAMPOS AVE., MAYAGUEZ, PR 00680	Mayagüez Municipio
ICIS-NPDES	CWA	PRU201701	USDA-ARS TROPICAL AGRICULTURE RESEARCH STATION	2200 PEDRO ALBIZU CAMPOS AVE. , SUITE 201, MAYAGUEZ, PR 00680-5470	Mayagüez Municipio
RCRAInfo	RCRA	PR8120560182	USDA ARS TARS	RD 108 INT 65, MAYAGUEZ, PR 00709	Mayagüez Municipio

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description
ICIS-Air	PR0000007209700069	8733	Noncommercial Research Organizations
Facil	ity Industria	ıl Effl	uent Guidelines

No data records returned

Facility NAICS (North American Industry Classification System) Codes

System	stem Identifier NAICS Code		NAICS Description
ICIS-Air	PR0000007209700069	541710	Research and Development in the Physical, Engineering, and Life Sciences

Facility Tribe Information

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

No data records returned

Enforcement and Compliance

Compliance Monitoring History Last 5 Years

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

No data records returned

Entries in italics are not included in ECHO's Compliance Monitoring Activity counts because they are not compliance monitoring strategy

- <https://www.epa.gov/compliance/compliance-monitoring-programs> activities or because they are not counted as inspections within EPA's Annual Results
- https://www.epa.gov/enforcement/enforcement-data-and-results.

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
CAA	PR0000007209700069	No	03/15/2025	0	03/14/2025
CWA	PRU201701	No	09/30/2024	0	03/14/2025
RCRA	PR8120560182	No	03/15/2025	0	03/14/2025

Three-Year Compliance History by Quarter

Statute	Progra	m/Pollu	tant/Violati	ion Type	QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	
CA	A (Source I	D: PR00	0000720970	0069)	04/01-06/30/22	07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01-03/31/24	04/01-06/30/24	07/01-09/30/24	10
		Facility	Level Statu	is	No Violation Identified	No Violation Identified	No Violation Identified	1							
		HP\	/ History												Г
	Violation Type	Agency	Programs	Pollutants											
Statute	Program/Pollutant/Violation Type		QTR1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11		
CWA (Source ID: PRU201701)		10/01-12/31	/21 01/01-03/3	1/22 04/01-06/30	/22 07/01-09/30/	22 10/01-12/31/	22 01/01-03/31	/23 04/01-06/30	/23 07/01-09/30/	23 10/01-12/31/	23 01/01-03/31/	24 04/01-06/3)/24		
	Facilit	ty-Level	Status	Not Applica	ble Not Applic	able Not Applica	ble Not Applicab	le Not Applicab	le Not Applica	ble Not Applica	ble Not Applicat	ole Not Applicab	le Not Applicab	le Not Applica	ble
	-	y Nonco port Hist	mpliance ory												
Statute	Program/I	Pollutan Type	t/Violation	QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11	
RCRA	(Source ID:	: PR8120	560182)	04/01-06/30	/22 07/01-09/3	0/22 10/01-12/31	./22 01/01-03/31/	23 04/01-06/30/	23 07/01-09/30	0/23 10/01-12/31	/23 01/01-03/31/	24 04/01-06/30/	24 07/01-09/30/	24 10/01-12/3	L/24
	Facilit	ty-Level	Status	No Violatio				No Violation Identified	No Violatio			n No Violation Identified	No Violation Identified	n No Violati Identifie	
	Violatio	on	Agency												

Informal Enforcement Actions Last 5 Years

Statute	System	Source ID	Type of Action	Lead Agency	Date

No data records returned

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

Formal Enforcement Actions Last 5 Years

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

Environmental Conditions

Watersheds

12-Digit WBD (Watershed Boundary Dataset) HUC (RAD (Reach Address Database))	WBD (Watershed Boundary Dataset) Subwatershed Name (RAD (Reach Address Database))	State Water Body Name (ICIS (Integrated Compliance Information System))	Beach Closures Within Last Year	Beach Closures Within Last Two Years	Pollutants Potentially Related to Impairment	Watershed with ESA (Endangered Species Act)-listed Aquatic Species?
210100030301	Rio Yaguez		No	No		Yes

Assessed Waters From Latest State Submission (ATTAINS)

State	Report Cycle	Assessment Unit ID	Assessment Unit Name	Water Condition	Cause Groups Impaired	Drinking Water Use	Ecological Use	Fish Consumption Use	Recreation Use	Other Use
PR	2022	PRWR79A	RIO YAGUEZ	Impaired - 303(d) Listed - With Restoration Plan	METALS (OTHER THAN MERCURY) PATHOGENS	Fully Supporting	Not Supporting		Not Supporting	

Air Quality Nonattainment Areas

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

Pollutants

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

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

No data records returned

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

Chemical Name

No data records returned

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

DMR and TRI Multi-Year Loading Report

NPDES ID Description

No data records returned

Community

Demographic Profile of Surrounding Area (1-Mile Radius)

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

General Statistics (ACS (American Community Survey))	
Total Persons	14,345
Population Density	4,676/sq.mi.
Housing Units in Area	10,811
Percent People of Color	100%
Households in Area	6,505
Households on Public Assistance	430
Persons With Low Income	12,014
Percent With Low Income	87%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.20658
Center Longitude	-67.13651
Total Area	3.121 sq.mi.
Land Area	98%
Water Area	2%

Income Breakdown (ACS (American Community Survey)) - Households (%)									
Less than \$15,000	3,738 (57.5%)								
\$15,000 - \$25,000	1,163 (17.89%)								
\$25,000 - \$50,000	1,018 (15.66%)								
\$50,000 - \$75,000	310 (4.77%)								
Greater than \$75,000	272 (4.18%)								

Age Breakdown (ACS (American Community Survey)) - Persons (%)									
Children 5 years and younger	243 (2%)								
Minors 17 years and younger	1,450 (10%)								
Adults 18 years and older	12,894 (90%)								
Seniors 65 years and older	3,623 (25%)								

Race Breakdown (ACS (American Community Survey)) - Persons (%)									
White	2,359 (16%)								
African-American	440 (3%)								
Hispanic-Origin	14,275 (100%)								
Asian	25 (0%)								
Hawaiian/Pacific Islander	0 (0%)								
American Indian	4 (0%)								
Other/Multiracial	10,607 (74%)								

Education Level (Persons 25 & older) (ACS (American Community Surv	rey)) - Persons (%)
Less than 9th Grade	1,252 (13.94%)
9th through 12th Grade	939 (10.46%)
High School Diploma	2,904 (32.33%)
Some College/2-year	1,359 (15.13%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	1,977 (22.01%)



Facility Summary

UPR-MAYAGUEZ CAMPUSOFICINA DEL RECTOR

EDIFICIO JOSÉ DE DIEGO OFICINA 201, MAYAGUEZ, PR 00681

FRS (Facility Registry Service) ID: 110064634490

EPA Region: 02 Latitude: 18.211583 Longitude: -67.140722

Locational Data Source: NPDES

Industries: -Indian Country: N

Enforcement and Compliance Summary

Statute	CWA
Compliance Monitoring Activities (5 years)	1
Date of Last Compliance Monitoring Activity	05/10/2021
Compliance Status	Unknown
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)	

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Toxic Releases (TRI): No Information

Greenhouse Gas Emissions (eGGRT): No Information

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

Regulatory Information

Clean Air Act (CAA): No Information

Clean Water Act (CWA): Non-Major, Permit Expired; Compliance Tracking

Partially Off (PRR040010)

Resource Conservation and Recovery Act (RCRA): No Information

Safe Drinking Water Act (SDWA): No Information

Go To Enforcement/Compliance Details

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

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110064634490					N	18.211583	-67.140722
ICIS-NPDES	CWA	PRR040010	Non-Major: General Permit Covered Facility	Expired; Compliance Tracking Partially Off	Urban Stormwater (Small MS4)	06/30/2021	N	18.211583	67.140722

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FDC		110004034400	LIDD MAYACHEZ CAMDUSOFICIMA DEL DECTOD	EDIFICIO JOSÉ DE DIFCO OFICINA 201 MAVACHEZ DD 00001	

гкэ	FR3 1100b4b34490		UPK-MATAGUEZ CAMPUSUFICINA DEL KECTUK	EDIFICIO JUSE DE DIEGO OFICINA ZUI, MATAGUEZ, PR 00001	
ICIS-NPDES	CWA	PRR040010	UPR-MAYAGUEZ CAMPUSOFICINA DEL RECTOR	EDIFICIO JOSÉ DE DIEGO OFICINA 201, MAYAGUEZ, PR 00681	Mayagüez Municipio

Facility SIC (Standard Industrial Classification) Codes

Facility NAICS (North American Industry Classification System) Codes

NAICS Description

No data records returned

No data records returned

Facility Industrial Effluent Guidelines

Facility Tribe Information

			· · · · · · · · · · · · · · · · · · ·			
Identifier	Effluent Guideline (40 CFR Part)	Effluent Guideline Description	Reservation Name	Tribe Name	EPA Tribal ID	Distance to Tribe (miles)
	No data records ret	urned		No data	records returned	i

Enforcement and Compliance

Compliance Monitoring History Last 5 Years

Statute	Source ID	System	Activity Type	Compliance Monitoring Type	Lead Agency	Date	Finding (if applicable)
CWA	PRR040010	ICIS-NPDES	Offsite Record Review	Urban Stormwater (MS4) - Desk Audit	EPA	05/10/2021	

Entries in italics are not included in ECHO's Compliance Monitoring Activity counts because they are not compliance monitoring strategy

- <https://www.epa.gov/compliance/compliance-monitoring-programs> activities or because they are not counted as inspections within EPA's Annual Results
- https://www.epa.gov/enforcement/enforcement-data-and-results.

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
CWA	PRR040010	No	09/30/2024	0	03/14/2025

Three-Year Compliance History by Quarter

Statute	Program/Pollutant/Violation Type	QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11
CWA (Source ID: PRR040010)		10/01-12/31/21	01/01-03/31/22	04/01-06/30/22	07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01-03/31/24	04/01-06/30/24
	Facility-Level Status	Unknown										
	Quarterly Noncompliance Report History	Undetermined										

Informal Enforcement Actions

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

Statu	te 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?
210100030302	Quebrada del Oro		No	No		Yes

Assessed Waters From Latest State Submission (ATTAINS)

Sta	te Report Cycle	Assessment Unit ID	Assessment Unit Name	Water Condition	Cause Groups Impaired	Drinking Water Use	Ecological Use	Fish Consumption Use	Recreation Use	Other Use
Р	2022	PRWQ80A	QUEBRADA DEL ORO	Impaired - With Restoration Plan	PATHOGENS	Not Assessed	Insufficient Information		Not Supporting	

Air Quality Nonattainment Areas

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

Pollutants

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

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

No data records returned

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

Chemical Name

No data records returned

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

DMR and TRI Multi-Year Loading Report

NPDES ID

Description

No data records returned

Community

Demographic Profile of Surrounding Area (1-Mile Radius)

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

General Statistics (ACS (American Community Survey))	
Total Persons	13,495
Population Density	4,479/sq.mi.
Housing Units in Area	9,784
Percent People of Color	99%
Households in Area	5,878
Households on Public Assistance	336
Persons With Low Income	11,513
Percent With Low Income	88%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.211583
Center Longitude	-67.140722
Total Area	3.121 sq.mi.
Land Area	97%
Water Area	3%

Income Breakdown (ACS (American Community Survey))) - Households (%)
Less than \$15,000	3,512 (59.81%)
\$15,000 - \$25,000	954 (16.25%)
\$25,000 - \$50,000	827 (14.08%)
\$50,000 - \$75,000	267 (4.55%)
Greater than \$75,000	312 (5.31%)

Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Children 5 years and younger	372 (3%)
Minors 17 years and younger	1,568 (12%)
Adults 18 years and older	11,927 (88%)
Seniors 65 years and older	2,899 (21%)

Race Breakdown (ACS (American Community Survey)) - Persons	(%)
White	2,048 (15%)
African-American	397 (3%)
Hispanic-Origin	13,379 (99%)
Asian	27 (0%)
Hawaiian/Pacific Islander	0 (0%)
American Indian	5 (0%)
Other/Multiracial	10,304 (76%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)				
Less than 9th Grade	1,003 (13.11%)			
9th through 12th Grade	771 (10.07%)			
High School Diploma	2,351 (30.72%)			
Some College/2-year	1,175 (15.35%)			
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	1,894 (24.75%)			



Facility Summary

UNIVERSITY OF PUERTO RICO MAYAGUEZ CAMPUS

252 ALFONSO VALDEZ BLVD, MAYAGUEZ, PR 00680

FRS (Facility Registry Service) ID: 110046539493

EPA Region: 02 **Latitude:** 18.208636 **Longitude:** -67.14272

Locational Data Source: RCRAINFO **Industries:** Educational Services

Indian Country: N

Enforcement and Compliance Summary

Statute	RCRA
Compliance Monitoring Activities (5 years)	
Date of Last Compliance Monitoring Activity	03/28/2005
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 Air Emissions Inventory (EIS): No Information

Clean Water Act (CWA): No Information Greenhouse Gas Emissions (eGGRT): No Information

Resource Conservation and Recovery Act (RCRA): Active SQG, (PRD987367620) Toxic Releases (TRI): No Information

Safe Drinking Water Act (SDWA): No Information Compliance and Emissions Data Reporting Interface (CEDRI): No Information

Other Regulatory Reports

Go To Enforcement/Compliance Details

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

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110046539493					N	18.208636	-67.14272
RCRAInfo	RCRA	PRD987367620	SQG	Active (H)			N	18.208636	-67.14272

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110046539493	UNIVERSITY OF PUERTO RICO MAYAGUEZ CAMPUS	252 ALFONSO VALDEZ BLVD, MAYAGUEZ, PR 00680	Mayagüez Municipio
			UNIVERSITY OF PUERTO RICO MAYAGUEZ CAMPUS	252 ALFONSO VALDEZ BLVD, MAYAGUEZ, PR 00680	Mayagüez Municipio

RCRAInfo PRD987367620 **Facility SIC (Standard Industrial Facility NAICS (North American Industry** Classification) Codes Classification System) Codes SIC Description NAICS Description No data records returned **Facility Tribe Information** No data records returned **Enforcement and Compliance Compliance Monitoring History** Finding (if applicable) No data records returned Entries in italics are not included in ECHO's Compliance Monitoring Activity counts because they are not compliance monitoring strategy <https://www.epa.gov/compliance/compliance-monitoring-programs> activities or because they are not counted as inspections within EPA's Annual Results https://www.epa.gov/enforcement/enforcement-data-and-results. **Compliance Summary Data** PRD987367620 03/15/2025 03/14/2025 Three-Year Compliance History by Quarter QTR 5 RCRA (Source ID: PRD987367620) 04/01-06/30/22 07/01-09/30/22 10/01-12/31/22 01/01-03/31/23 04/01-06/30/23 07/01-09/30/23 10/01-12/31/23 01/01-03/31/24 04/01-06/30/24 07/01-09/30/24 10/01-12/31/24 **Facility-Level Status** Violation Agency **Informal Enforcement Actions** Last 5 Years 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 Actions No data records returned **Environmental Conditions** Watersheds 12-Digit WBD (Watershed Boundary **WBD (Watershed Boundary Dataset)** State Water Body Name (ICIS **Beach Closures** Closures Dataset) HUC (RAD (Reach Address Subwatershed Name (RAD (Reach Address Within Last Two **Potentially Related** Species Act)-listed Aquation Within Last No data records returned Assessed Waters From Latest State Submission (ATTAINS) State Report Cycle Assessment Unit ID Assessment Unit ID Assessment Unit ID Assessment Unit Name Water Condition Cause Groups Impaired Drinking Water Use Ecological Use Fish Consumption Use Recreation Use Other Use No data records returned **Air Quality Nonattainment Areas** Pollutant

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

Pollutants

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

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

No data records returned

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

Chemical Name

No data records returned

e-Manifest Hazardous Waste History (Public)

Hazardous Waste Shipped in Kilograms by Year (Through 12/14/2024)

Source ID	Waste Description	2022	2023	2024	2025
PRD987367620	Hazardous Waste	76,584	2,176	3,656	
PRD987367620	Acute Hazardous Waste	0 - 23	0 - 3	0 - 23	
PRD987367620	Pharmaceutical Hazardous Waste	0	0	0	

[&]quot;Pharmaceutical Hazardous Waste" refers to quantities managed under 40 CFR part 266 subpart P and thus excluded from the Hazardous and Acute Hazardous Waste quantities shown above.

Community

Water Area

Demographic Profile of Surrounding Area (1-Mile Radius)

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

General Statistics (ACS (American Community Survey))	
Total Persons	15,542
Population Density	5,392/sq.mi.
Housing Units in Area	11,299
Percent People of Color	100%
Households in Area	6,988
Households on Public Assistance	499
Persons With Low Income	13,521
Percent With Low Income	89%
Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.208636
Center Longitude	-67.14272
Total Area	3.121 sq.mi.
Land Area	0204

Income Breakdown (ACS (American Community Survey)) - Households (%)
Less than \$15,000	4,364 (62.47%)
\$15,000 - \$25,000	1,120 (16.03%)
\$25,000 - \$50,000	952 (13.63%)
\$50,000 - \$75,000	280 (4.01%)
Greater than \$75,000	270 (3.86%)

Age Breakdown (ACS (American Community Survey)) -	Persons (%)					
Children 5 years and younger	494 (3%)					
Minors 17 years and younger	1,997 (13%)					
Adults 18 years and older	13,547 (87%)					
Seniors 65 years and older	3,431 (22%)					
Race Breakdown (ACS (American Community Survey)) - Persons (%)						
White	2,349 (15%)					

Race Breakdown (ACS (American Community Survey)) - Per	sons (%)
White	2,349 (15%)
African-American	474 (3%)
Hispanic-Origin	15,453 (99%)
Asian	28 (0%)
Hawaiian/Pacific Islander	0 (0%)
American Indian	5 (0%)
Other/Multiracial	11,808 (76%)

Education Level (Persons 25 & older) (ACS (American Community Survey))	- Persons (%)
Less than 9th Grade	1,392 (15.36%)
9th through 12th Grade	970 (10.7%)
High School Diploma	2,888 (31.86%)
Some College/2-year	1,298 (14.32%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	1,967 (21.7%)



Facility Summary

FLORES BROS CEMENT

MANUEL M. SAMAS #48, MAYAGUEZ, PR 00708

FRS (Facility Registry Service) ID: 110007171121

EPA Region: 02
Latitude: 18.20872
Longitude: -67.15072
Locational Data Source: FRS

Industries: Nonmetallic Mineral Product Manufacturing

Indian Country: N

Enforcement and Compliance Summary

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

Regulatory Information

Clean Air Act (CAA): Operating Minor (PR0000007209700023)

Clean Water Act (CWA): No Information

Resource Conservation and Recovery Act (RCRA): No Information

Safe Drinking Water Act (SDWA): No Information

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): No Information

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

Go To Enforcement/Compliance Details

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

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110007171121					N	18.20872	-67.15072
ICIS-Air	CAA	PR0000007209700023	Minor Emissions	Operating	CAASIP		N	18.20872	-67.15072

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110007171121	FLORES BROS CEMENT	MANUEL M. SAMAS #48, MAYAGUEZ, PR 00708	
ICIS-Air	CAA	PR0000007209700023	FLORES BROS CEMENT	MANUEL M. SAMAS #48, MAYAGUEZ, PR 00708	Mayagüez Municipio

Facility SIC (Standard Industrial Classification) Codes

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	SIC Code	SIC Description	System	Identifier	NAICS Code	NAICS Description
ICIS-Air	PR0000007209700023	3241	Cement, Hydraulic	ICIS-Air	PR0000007209700023	327310	Cement Manufacturing

Facility Tribe Information

Distance to Tribe (miles)

No data records returned

Enforcement and Compliance

Compliance Monitoring History Last 5 Years

Finding (if applicable)

No data records returned

Entries in italics are not included in ECHO's Compliance Monitoring Activity counts because they are not compliance monitoring strategy

- <https://www.epa.gov/compliance/compliance-monitoring-programs> activities or because they are not counted as inspections within EPA's Annual Results
- https://www.epa.gov/enforcement/enforcement-data-and-results.

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
CAA	PR0000007209700023	No	03/15/2025	0	03/14/2025

Three-Year Compliance History by Quarter

Statute	tatute Program/Pollutant/Violation Type			QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10		
CAA (Source ID: PR0000007209700023)			04/01-06/30/22	07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01-03/31/24	04/01-06/30/24	07/01-09/30/24	10/0		
	Facility-Level Status		No Violation Identified	No I											
	HPV History														
	Violation Type	gency	Programs	Pollutants											

Informal Enforcement Actions

Last 5 Years

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

State/Local Penalty

No data records returned

Environmental Conditions

Watersheds

12-Digit WBD (Watershed Boundary WBD (Watershed Boundary Dataset) State Water Body Name (ICIS **Beach Closures** Pollutants Watershed with ESA (Endangered Closures Dataset) HUC (RAD (Reach Address Subwatershed Name (RAD (Reach Address Within Last Two **Potentially Related** Species Act)-listed Aquatio Database)) System)) Database))

No data records returned

Assessed Waters From Latest State Submission (ATTAINS)

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

No data records returned

Air Quality Nonattainment Areas

Pollutant

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

Pollutants

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

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

No data records returned

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

Chemical Name
No data records returned

Community

Demographic Profile of Surrounding Area (1-Mile Radius)

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

General Statistics (ACS (American Community Survey))
Total Persons	13,301
Population Density	5,966/sq.mi.
Housing Units in Area	8,973
Percent People of Color	100%
Households in Area	5,683
Households on Public Assistance	498
Persons With Low Income	11,746
Percent With Low Income	90%
Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.20872
Center Longitude	-67.15072
Total Area	3.121 sq.mi.
Land Area	71%
Water Area	29%
Income Breakdown (ACS (American Community Surve	y)) - Households (%)
Less than \$15,000	3,925 (69.02%)
\$15,000 - \$25,000	714 (12.55%)
\$25,000 - \$50,000	649 (11.41%)
\$50,000 - \$75,000	181 (3.18%)
Greater than \$75,000	218 (3.83%)

Age Breakdown (ACS (American Community Survey)) - Persons (%))
Children 5 years and younger	623 (5%)
Minors 17 years and younger	2,440 (18%)
Adults 18 years and older	10,862 (82%)
Seniors 65 years and older	2,187 (16%)
Race Breakdown (ACS (American Community Survey)) - Persons (%	6)
White	1,893 (14%)
African-American	370 (3%)
Hispanic-Origin	13,246 (100%)
Asian	5 (0%)
Hawaiian/Pacific Islander	0 (0%)
American Indian	5 (0%)
Other/Multiracial	10,288 (77%)
Education Level (Persons 25 & older) (ACS (American Community S	Survey)) - Persons (%)
Less than 9th Grade	1,272 (18.71%)
9th through 12th Grade	654 (9.62%)
High School Diploma	2,101 (30.9%)
Some College/2-year	944 (13.88%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	1,396 (20.53%)



Facility Summary

PR PUBLIC HOUSING - RES YAGUEZ

201 NENADICH ST, MAYAGUEZ, PR 00680

FRS (Facility Registry Service) ID: 110012243848

EPA Region: 02 Latitude: 18.19885 Longitude: -67.14886 Locational Data Source: FRS

Industries: -Indian Country: N

Enforcement and Compliance Summary

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

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Toxic Releases (TRI): No Information

Greenhouse Gas Emissions (eGGRT): No Information

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

Regulatory Information

Clean Air Act (CAA): No Information
Clean Water Act (CWA): No Information

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

(PRR000014894)

Safe Drinking Water Act (SDWA): No Information

Go To Enforcement/Compliance Details

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

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110012243848					N	18.19885	-67.14886
RCRAInfo	RCRA	PRR000014894	VSQG	Active (H)			N	18.19791	-67.145392

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110012243848	PR PUBLIC HOUSING - RES YAGUEZ	201 NENADICH ST, MAYAGUEZ, PR 00680	Mayagüez Municipio

PRR000014894 PR PUBLIC HOUSING - RES YAGUEZ 201 NENADICH ST, MAYAGUEZ, PR 00680 **Facility NAICS (North American Industry Facility SIC (Standard Industrial** Classification) Codes Classification System) Codes NAICS Description No data records returned No data records returned **Facility Tribe Information** Tribe Name Distance to Tribe (miles) No data records returned **Enforcement and Compliance Compliance Monitoring History** Finding (if applicable) No data records returned Entries in italics are not included in ECHO's Compliance Monitoring Activity counts because they are not compliance monitoring strategy <https://www.epa.gov/compliance/compliance-monitoring-programs> activities or because they are not counted as inspections within EPA's Annual Results https://www.epa.gov/enforcement/enforcement-data-and-results. Compliance Summary Data Current SNC (Significant N Current As Of PRR000014894 03/15/2025 03/14/2025 Three-Year Compliance History by Quarter Program/Pollutant/Violation Statute QTR 1 OTR 2 OTR 5 OTR 6 OTR 7 OTR 8 OTR 9 OTR 10 OTR 11 RCRA (Source ID: PRR000014894) 04/01-06/30/22 07/01-09/30/22 10/01-12/31/22 01/01-03/31/23 04/01-06/30/23 07/01-09/30/23 10/01-12/31/23 01/01-03/31/24 04/01-06/30/24 07/01-09/30/24 10/01-12/31/24 Facility-Level Status Violation **Informal Enforcement Actions** Last 5 Years 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 Settlement/ **Federal Penalty** State/Local Penalty **Penalty Amount** SEP No data records returned **Environmental Conditions** Watersheds Beach Watershed with ESA (Endangered WBD (Watershed Boundary Dataset) State Water Body Name (ICIS **Beach Closures Pollutants** Closures aset) HUC (RAD (Reach Address Subwatershed Name (RAD (Reach Addres Within Last Two entially Related Species Act)-listed Aquati Database)) Database)) System)) Years to Impairment Species? No data records returned Assessed Waters From Latest State Submission (ATTAINS) State Report Cycle Assessment Unit ID Assessment Unit ID Assessment Unit Name Water Condition Cause Groups Impaired Drinking Water Use Ecological Use Fish Consumption Use Recreation Use Other Use No data records returned **Air Quality Nonattainment Areas**

	llutant Within Nonattainment Status Area? Nonattainment Status Applicable Standard(s) Within Maintenance Status Area? Maintenance Status Applicable Standard(s)							
No data records retur	ırned							

Pollutants

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

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

No data records returned

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

Chemical Name
No data records returned

Community

Demographic Profile of Surrounding Area (1-Mile Radius)

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

General Statistics (ACS (American Community Survey)))
Total Persons	15,762
Population Density	6,635/sq.mi.
Housing Units in Area	11,114
Percent People of Color	100%
Households in Area	7,272
Households on Public Assistance	764
Persons With Low Income	13,929
Percent With Low Income	89%
Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.19885
Center Longitude	-67.14886
Total Area	3.121 sq.mi.
Land Area	76%
Water Area	24%
Income Breakdown (ACS (American Community Surve	y)) - Households (%)
Less than \$15,000	4,897 (67.36%)
\$15,000 - \$25,000	983 (13.52%)
\$25,000 - \$50,000	979 (13.47%)
\$50,000 - \$75,000	227 (3.12%)
Greater than \$75,000	184 (2.53%)

Children 5 years and younger	757 (5%)		
Minors 17 years and younger	2,955 (19%)		
Adults 18 years and older	12,807 (81%)		
Seniors 65 years and older	3,389 (22%)		
Race Breakdown (ACS (American Community Survey)) - Persons (%)		
White	2,445 (16%)		
African-American	520 (3%)		
Hispanic-Origin	15,737 (100%)		
Asian	6 (0%)		
Hawaiian/Pacific Islander	0 (0%)		
American Indian	1 (0%)		
Other/Multiracial	11,879 (75%)		
Education Level (Persons 25 & older) (ACS (American Community	Survey)) - Persons (%)		
Less than 9th Grade	1,813 (19.11%)		
9th through 12th Grade	973 (10.26%)		
High School Diploma	2,969 (31.29%)		
Some College/2-year	1,385 (14.6%)		
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	1,811 (19.09%)		



Facility Summary

FARMACIA EL AMAL #4

MAYAGUEZ TOWN CENTER LOCAL 5, MAYAGUEZ, PR 00680

FRS (Facility Registry Service) ID: 110004896015

EPA Region: 02 **Latitude:** 18.209625 **Longitude:** -67.14462

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)	-

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Toxic Releases (TRI): No Information

Greenhouse Gas Emissions (eGGRT): No Information

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

Regulatory Information

Clean Air Act (CAA): No Information
Clean Water Act (CWA): No Information

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

(PRR000013532)

Safe Drinking Water Act (SDWA): No Information

Go To Enforcement/Compliance Details

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

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110004896015					N	18.209625	-67.14462
RCRAInfo	RCRA	PRR000013532	VSQG	Active (H)			N	18.209625	-67.14462

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County

FRS		110004896015	FARMACIA EL AMAL #4	MAYAGUEZ TOWN CENTER LOCAL 5, MAYAGUEZ, PR 00680	Mayagüez Municipio	
RCRAInfo	RCRA	PRR000013532	FARMACIA EL AMAL #4	MAYAGUEZ TOWN CENTER LOCAL 5, MAYAGUEZ, PR 00680	Mayagüez Municipio	

Facility SIC (Standard Industrial Classification) Codes

Facility NAICS (North American Industry Classification System) Codes

System Identifier SIC Code SIC Description System Identifier NAICS Code NAICS Description

No data records returned

No data records returned

Facility Tribe Information

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

No data records returned

Enforcement and Compliance

Compliance Monitoring History

Last 5 Years

Statute Source ID System Activity Type Com

Lead Agei

te Finding (if applicable)

No data records returned

Entries in italics are not included in ECHO's Compliance Monitoring Activity counts because they are not compliance monitoring strategy

- <https://www.epa.gov/compliance/compliance-monitoring-programs> activities or because they are not counted as inspections within EPA's Annual Results
- https://www.epa.gov/enforcement/enforcement-data-and-results.

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
RCRA	PRR000013532	No	03/15/2025	0	03/14/2025

Three-Year Compliance History by Quarter

Statute	Program/Polluta		QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11
RCRA	(Source ID: PRR0	00013532)	04/01-06/30/22	07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01-03/31/24	04/01-06/30/24	07/01-09/30/24	10/01-12/31/24
	Facility-Leve	el Status	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

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))

System))

State Water Body Name (ICIS Closures Within Last Two Watershed Name (RAD (Reach Address One))

System))

Beach Closures Within Last Two Within Last Two Year

Year

Year

Pollutants Watershed with ESA (Endangered Within Last Two Year Species Act)-listed Aquatic Species?

No data records returned

Assessed Waters From Latest State Submission (ATTAINS)

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

No data records returned

Air Quality Nonattainment Areas

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

Pollutants

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

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

No data records returned

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

Chemical Name	
No data records returned	

Community

Demographic Profile of Surrounding Area (1-Mile Radius)

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

Other/Multiracial

General Statistics (ACS (American Community Survey))	
otal Persons	14,496
Population Density	5,217/sq.mi.
Housing Units in Area	10,482
Percent People of Color	100%
Households in Area	6,477
Households on Public Assistance	446
Persons With Low Income	12,623
Percent With Low Income	89%
Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.209625
Center Longitude	-67.14462
otal Area	3.121 sq.mi.
and Area	89%
	11%

Income Breakdown (ACS (American Community Survey)) - Households (%)				
Less than \$15,000	4,109 (63.47%)			
\$15,000 - \$25,000	998 (15.42%)			
\$25,000 - \$50,000	844 (13.04%)			
\$50,000 - \$75,000	262 (4.05%)			
Greater than \$75,000	261 (4.03%)			

٠.		
	Age Breakdown (ACS (American Community Survey)) - Persons (%)	
	Children 5 years and younger	481 (3%)
	Minors 17 years and younger	1,874 (13%)
	Adults 18 years and older	12,619 (87%)
	Seniors 65 years and older	3,071 (21%)
	Race Breakdown (ACS (American Community Survey)) - Persons (%)	
	White	2,182 (15%)
	African-American	449 (3%)
	Hispanic-Origin	14,403 (99%)
	Asian	23 (0%)
	Hawaiian/Pacific Islander	0 (0%)
	American Indian	5 (0%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)				
Less than 9th Grade	1,273 (15.45%)			
9th through 12th Grade	853 (10.36%)			
High School Diploma	2,600 (31.56%)			
Some College/2-year	1,186 (14.4%)			
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	1,817 (22.06%)			

11,001 (76%)



Facility Summary

ESSO STANDARD OIL SS CO-300

292 POST ST SUR KM 0.02, MAYAGUEZ, PR 00680

FRS (Facility Registry Service) ID: 110004895276

EPA Region: 02 Latitude: 18.209563 Longitude: -67.143823 Locational Data Source: FRS Industries: Gasoline Stations

Indian Country: N

Enforcement and Compliance Summary

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

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Toxic Releases (TRI): No Information

Greenhouse Gas Emissions (eGGRT): No Information

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

Regulatory Information

Clean Air Act (CAA): No Information
Clean Water Act (CWA): No Information

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

(PRR000011700)

Safe Drinking Water Act (SDWA): No Information

Go To Enforcement/Compliance Details

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

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110004895276					N	18.209563	-67.143823
RCRAInfo	RCRA	PRR000011700	VSQG	Active (H)			N	18.189036	-67.143129

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110004895276	ESSO STANDARD OIL SS CO-300	292 POST ST SUR KM 0.02, MAYAGUEZ, PR 00680	Mayagüez Municipio

PRR000011700 ESSO STANDARD OIL SS CO-300 292 POST ST SUR KM 0.02, MAYAGUEZ, PR 00680 Mayagüez Municipio **Facility NAICS (North American Industry Facility SIC (Standard Industrial** Classification) Codes Classification System) Codes NAICS Description RCRAInfo PRR000011700 Gasoline Stations with Convenience Stores No data records returned Facility Tribe Information No data records returned **Enforcement and Compliance Compliance Monitoring History** Finding (if applicable) No data records returned Entries in italics are not included in ECHO's Compliance Monitoring Activity counts because they are not compliance monitoring strategy https://www.epa.gov/compliance/compliance-monitoring-programs activities or because they are not counted as inspections within EPA's Annual Results https://www.epa.gov/enforcement/enforcement-data-and-results. Compliance Summary Data Otrs with NC (Noncompliance) (of 12) PRR000011700 03/15/2025 03/14/2025 Three-Year Compliance History by Quarter QTR 9 QTR 2 QTR 5 04/01-06/30/22 07/01-09/30/22 10/01-12/31/22 01/01-03/31/23 04/01-06/30/23 07/01-09/30/23 10/01-12/31/23 01/01-03/31/24 04/01-06/30/24 07/01-09/30/24 10/01-12/31/24 RCRA (Source ID: PRR000011700) Violation **Informal Enforcement Actions** Last 5 Years 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 State/Local Penalty No data records returned **Environmental Conditions** Watersheds 12-Digit WBD (Watershed Boundary WBD (Watershed Boundary Dataset) State Water Body Name (ICIS Beach Closures Pollutants Watershed with ESA (Endangered Closures Dataset) HUC (RAD (Reach Address ubwatershed Name (RAD (Reach Address Within Last Two entially Related Species Act)-listed Aquatio System)) Database)) Species? Database)) No data records returned Assessed Waters From Latest State Submission (ATTAINS) State Report Cycle Assessment Unit ID Assessment Unit ID Assessment Unit ID Assessment Unit Name Water Condition Cause Groups Impaired Drinking Water Use Ecological Use Fish Consumption Use Recreation Use Other Use No data records returned **Air Quality Nonattainment Areas**

No data records returned

Pollutants

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

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

No data records returned

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

Chemical Name	
No data records returned	

Community

Demographic Profile of Surrounding Area (1-Mile Radius)

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

General Statistics (ACS (American Community Survey))					
Total Persons	14,746				
Population Density	5,205/sq.mi.				
Housing Units in Area	10,708				
Percent People of Color	100%				
Households in Area	6,605				
Households on Public Assistance	447				
Persons With Low Income	12,834				
Percent With Low Income	89%				
Geography					
Radius of Selected Area	1 mi.				

Radius of Selected Area	1 mi.
Center Latitude	18.209563
Center Longitude	-67.143823
Total Area	3.121 sq.mi.
Land Area	91%
Water Area	9%
Income Breakdown (ACS (American Community Survey)) - Househ	olds (%)
Less than \$15,000	4 144 (62 75%)

Income Breakd	me Breakdown (ACS (American Community Survey)) - Households (%)	
Less than \$15,0	00	4,144 (62.75%)
\$15,000 - \$25,00	0	1,044 (15.81%)
\$25,000 - \$50,00	0	882 (13.36%)
\$50,000 - \$75,00	0	269 (4.07%)
Greater than \$7	5,000	265 (4.01%)

Age Breakdown (ACS (American Community Survey)) - Persons (%)		
(Children 5 years and younger	471 (3%)
١	Minors 17 years and younger	1,853 (13%)
F	Adults 18 years and older	12,896 (87%)
5	Seniors 65 years and older	3,192 (22%)

Race Breakdown (ACS (American Community Survey)) - Persons (%)
White	2,221 (15%)
African-American	451 (3%)
Hispanic-Origin	14,650 (99%)
Asian	28 (0%)
Hawaiian/Pacific Islander	0 (0%)
American Indian	5 (0%)
Other/Multiracial	11,202 (76%)

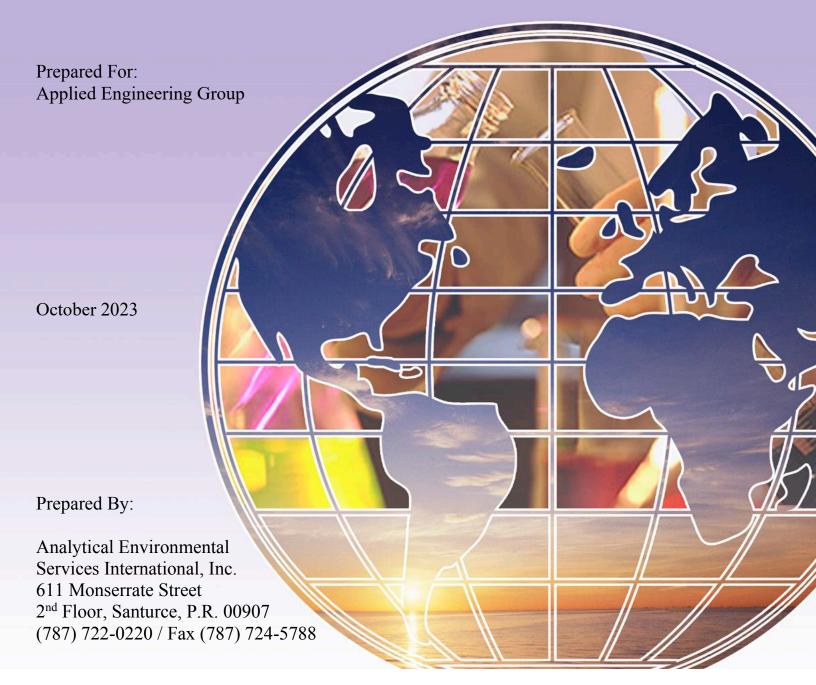
Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)			
Less than 9th Grade	1,281 (15.12%)		
9th through 12th Grade	900 (10.62%)		
High School Diploma	2,677 (31.59%)		
Some College/2-year	1,220 (14.4%)		
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	1,868 (22.05%)		





ENVIRONMENTAL SURVEY FOR LEAD BASED PAINT (LBP) COMPONENTS AND ASBESTOS CONTAINING MATERIALS (ACM) FOR

PROJECT IDENTIFIED AS
"MEJORAS EN LA CALLE BOSQUES Y LA CALLE LIC.
RAMÍREZ SILVA" (PR-CRP-000857).
MAYAGUEZ, PUERTO RICO





LEAD



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- I. SUMMARY
- 1.0 INTRODUCTION
- 2.0 TESTING PROCEDURES
- 3.0 LEAD BASED PAINT TESTING METHODOLOGY
- 4.0 RESULTS
- 5.0 CONCLUSIONS

APPENDIX I - AESI Credentials

APPENDIX II - PCS Data Sheet

APPENDIX III - XRF Data

APPENDIX IV - Selective Photos

APPENDIX V - Floor Plan with Distribution of LBP

Components

I. SUMMARY

AES International was contracted to perform an LBP survey for a project identified as "Mejoras en la calle Bosques y la calle Lic. Ramírez Silva", Mayagüez, Puerto Rico (PR-CRP-000857).

The LBP inspection was conducted on 10/9/2023 by Javier Medina, a DRNA certified LBP inspector.

The following components were found to be painted with LBP:

Lic Ramirez Street				
	Sidewalk Border	Concrete	Yellow	23 ln.ft
	Road Sign Post	Metal	Black	9 ln.ft
	Sidewalk Border	Concrete	Yellow	33 ln.ft
	Road Sign Post	Metal	Black	9 ln.ft
	Road Sign Post	Metal	Black	9 ln.ft
	Structure Entrance	Concrete	Yellow	33 ln.ft
	Floor Line	Concrete	White/Blue	23 ln.ft
	Sidewalk Border	Concrete	Yellow	24 ln.ft
	Sidewalk Border	Concrete	Yellow	63 ln.ft
Bosque Street				
	Structure Entrance	Concrete	Yellow	180 sq.ft
	Road Sign Post	Metal	Black	9 ln.ft
	Sidewalk Border	Concrete	Yellow	68 ln.ft
	Sidewalk Border	Concrete	Yellow	68 ln.ft
	AEE Post	Wood	Yellow	
	AEE Post Base	Concrete	White	
	Plastic Pipe	Plastic	Yellow	5 ln.ft
	Sidewalk Border	Concrete	Yellow	9 ln.ft
	Floor Lines	Asphalt	Yellow	
	Sidewalk Border	Concrete	Yellow	26 ln.ft
	Telephone Post	Metal	Black/Yellow	
	Sidewalk Border	Concrete	Yellow	23 ln.ft
	Sidewalk Border	Concrete	Yellow	26 ln.ft
	Sidewalk Border	Concrete	Yellow	7 ln.ft
	Sidewalk Border	Concrete	Yellow	16 ln.ft
	Water Hydrant	Metal	Yellow	1 Unit
	Structure Entrance	Concrete	Yellow	32 ln.ft

	Sidewalk Border	Concrete	Yellow	22 ln.ft
	Ramp	Concrete	Yellow	24 sq.ft
	Road Sign Post	Metal	Yellow	9 ln.ft
Jimenez Street				
	Road Sign Post	Metal	Black	9 ln.ft
	Road Sign Post	Metal	Black	9 ln.ft
	Road Sign Post	Metal	Black	9 ln.ft
	Road Sign Post	Metal	Yellow	2 ln.ft
	Road Sign Post	Metal	Yellow	9 ln.ft
	Sidewalk Border	Concrete	Yellow	57 ln.ft
	Road Sign Post	Metal	Black	9 ln.ft
	Sidewalk Border	Concrete	Yellow	38 ln.ft
	Sidewalk Border	Concrete	Yellow	8 ln.ft
	Sidewalk Border	Concrete	Yellow	98 ln.ft
	Ramp	Concrete	Blue	8 sq.ft
	Road Sign Post	Metal	Black	9 ln.ft
	Sidewalk Border	Concrete	Yellow	107 ln.ft
	Road Sign Post	Metal	Black	9 ln.ft
	Road Sign Post	Metal	Black	9 ln.ft
	Structure Entrance	Concrete	Yellow	50 ln.ft
	Road Sign Post	Metal	Black	9 ln.ft
	-			

If demolition, or renovation activities, are conducted in the nearest future it is required to remove all LBP materials that will be affected by said activities.

ADY PADAN, PH.D

1.0 INTRODUCTION

Analytical Environmental Services International, Inc. (AES International) was contracted to perform a survey for a project identified as "Mejoras en la calle Bosques y la calle Lic. Ramírez Silva", Mayagüez, Puerto Rico (PR-CRP-000857).

The LBP inspection was conducted on 10/9/2023 by Javier Medina, a DRNA/EPA certified lead inspector. The credentials of AESI are attached in Appendix I. The survey, performed with an XRF instrument manufactured by Heuresis, Model Pb200i, was conducted using HUD protocol of 1997, revised in 2012.

2.0 TESTING PROCEDURES

The testing was performed with an XRF instrument manufactured by Heuresis, Model Pb200i (see PCS in Appendix II). The selected mode allows reference to the abatement level set at 1.0 mg/cm². The results are reported at 95% confidence levels.

3.0 LEAD BASED PAINT TESTING METHODOLOGY

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

The only lead-based paint testing protocol officially available at this time was published by HUD initially in 1990, revised in 1991 and finalized in 1995 (see above HUD reference). A revised chapter 7 was published in 1997. In accordance to the new protocol, almost all surfaces present in the units have to be tested. The above guidelines were used to perform lead based-paint testing for this project.

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

- 1. Perform inventory of all testing combinations
- 2. Select painted area to be tested
- 3. Perform XRF testing (including calibration checks)
- 4. Collect and analyze paint chip samples, for inconclusive results.
- 5. Classify XRF and paint chips results
- 6. Review and evaluate the data
- 7. Report findings

AES International personnel classify each XRF lead reading as positive, negative, or inconclusive. This classification is based on manufacturer XRF performance characteristic sheet (PCS), for each substrate. Samples and/or additional readings are taken from inconclusive areas. Calibration verification of the instrument was performed prior to beginning of daily task, when

ADY PADAN, PH.D

the instrument was turned on, and at the end of the day. The verification was conducted on a NIST standard of 1.0 mg/cm². Acceptance criteria used was +-0.2 mg/cm². The data for calibration verification is attached in Appendix III.

One testing combination of similar components and four walls were tested for each room equivalent. The identification of tested walls is based on HUD guidelines as follow:

Wall A-entrance wall

Walls B, C, and D-sequential walls, clockwise from A.

At the completion of the testing, ten (10) surfaces were retested as to assess precision of the testing. Statistical calculations performed on test-retest results suggest that the results are within the tolerance limits and therefore acceptable.

4.0 RESULTS

4.1 Results of XRF inspection

The results of the tested components are shown in Appendix III. One hundred and sixty (160) XRF readings were taken. LBP components were detected and presented herein. Selective photos are shown in Appendix IV.

5.0 CONCLUSIONS

An LBP survey for "Mejoras en la calle Bosques y la calle Lic. Ramírez Silva", Mayagüez, Puerto Rico (PR-CRP-000857) was conducted. LBP findings were presented herein.

Some painted surfaces may contain levels of lead below 1.0 mg/cm², which could create lead dust, or lead contaminated soil hazards if the paint is turned into dust by abrasion, scraping, or sanding.

This report shall be kept by the owner and all future owners for the life of the buildings. A copy of the relevant report shall be given to each tenant, buyer or lessor, as to comply with federal requirements for disclosure under lead disclosure rule of 1996 (see also section 1018 of Title X). The LBP survey relates to surfaces accessible and not covered by rigid barriers. Should any hidden painted surfaces or components be present, they must be assumed as LBP.

Javier Medina, DRNA Lead Inspector Lic#: LBPI-33622-397

Howas Wolina Pera

ADY PADAN, PH.D

Table 1. Summary of LBP Positive Components for Mejoras Calle Bosques y Lcdo. Ramírez Street, Mayagüez, Puerto Rico.

Road	Location	Components	Substrate	Color	Quantity
Lic Ramirez	Street				
		Sidewalk Border Road Sign Post Sidewalk Border	Concrete Metal Concrete	Yellow Black Yellow	23 ln.ft 9 ln.ft 33 ln.ft
		Road Sign Post	Metal	Black	9 ln.ft
		Road Sign Post Structure Entrance	Metal Concrete	Black Yellow	9 ln.ft 33 ln.ft
		Floor Line	Concrete	White/Blue	23 ln.ft
		Sidewalk Border	Concrete	Yellow	24 ln.ft
		Sidewalk Border	Concrete	Yellow	63 ln.ft
Bosque Stre	et				
		Structure Entrance	Concrete	Yellow	180 sq.ft
		Road Sign Post	Metal	Black	9 ln.ft
		Sidewalk Border	Concrete	Yellow	68 ln.ft
		Sidewalk Border	Concrete	Yellow	68 ln.ft
		AEE Post	Wood	Yellow	
		AEE Post Base	Concrete	White	
		Plastic Pipe	Plastic	Yellow	5 ln.ft
		Sidewalk Border	Concrete	Yellow	9 ln.ft
		Floor Lines	Asphalt	Yellow	
		Sidewalk Border	Concrete	Yellow	26 ln.ft
		Telephone Post	Metal	Black/Yellow	
		Sidewalk Border	Concrete	Yellow	23 ln.ft
		Sidewalk Border	Concrete	Yellow	26 ln.ft
		Sidewalk Border	Concrete	Yellow	7 ln.ft
		Sidewalk Border	Concrete	Yellow	16 ln.ft
		Water Hydrant	Metal	Yellow	1 Unit
		Structure Entrance	Concrete	Yellow	32 ln.ft
		Sidewalk Border	Concrete	Yellow	22 ln.ft
		Ramp Road Sign Post	Concrete Metal	Yellow Yellow	24 sq.ft 9 ln.ft
		Road Sign Fost	Metai	I CHOW	9 111.11
Jimenez Str	<u>eet</u>				
		Road Sign Post	Metal	Black	9 ln.ft
		Road Sign Post	Metal	Black	9 ln.ft
		Road Sign Post	Metal	Black	9 ln.ft
		Road Sign Post	Metal	Yellow	2 ln.ft
		Road Sign Post	Metal	Yellow	9 ln.ft
		Sidewalk Border	Concrete	Yellow	57 ln.ft
		Road Sign Post	Metal	Black	9 ln.ft
		Sidewalk Border	Concrete	Yellow	38 ln.ft
		Sidewalk Border	Concrete	Yellow	8 ln.ft

Table 1. Summary of LBP Positive Components for Mejoras Calle Bosques y Lcdo. Ramírez Street, Mayagüez, Puerto Rico.

Road	Location	Components	Substrate	Color	Quantity
		Sidewalk Border	Concrete	Yellow	98 ln.ft
		Ramp	Concrete	Blue	8 sq.ft
		Road Sign Post	Metal	Black	9 ln.ft
		Sidewalk Border	Concrete	Yellow	107 ln.ft
		Road Sign Post	Metal	Black	9 ln.ft
		Road Sign Post	Metal	Black	9 ln.ft
		Structure Entrance	Concrete	Yellow	50 ln.ft
		Road Sign Post	Metal	Black	9 ln.ft



Appendix I





AIHA Laboratory Accreditation Programs, LLC

acknowledges that

Analytical Environmental Services International, Inc.

611 Monserrate St. Suite 2 Santurce, PR 00907

Laboratory ID: LAP-102702

along with all premises from which key activities are performed, as listed above, has fulfilled the requirements of the AIHA Laboratory Accreditation Programs (AIHA LAP), LLC accreditation to the ISO/IEC 17025:2017 international standard, General Requirements for the Competence of Testing and Calibration Laboratories in the following:

LABORATORY ACCREDITATION PROGRAMS

\checkmark	INDUSTRIAL HYGIENE	Accreditation Expires: July 01, 2025
\checkmark	ENVIRONMENTAL LEAD	Accreditation Expires: July 01, 2025
	ENVIRONMENTAL MICROBIOLOGY	Accreditation Expires:
	FOOD	Accreditation Expires:
	UNIQUE SCOPES	Accreditation Expires:
П	BERYLLIUM FIELD/MOBILE	Accreditation Expires:

Specific Field(s) of Testing (FoT)/Method(s) within each Accreditation Program for which the above named laboratory maintains accreditation is outlined on the attached Scope of Accreditation. Continued accreditation is contingent upon successful on-going compliance with ISO/IEC 17025:2017 and AIHA LAP, LLC requirements. This certificate is not valid without the attached Scope of Accreditation. Please review the AIHA LAP, LLC website (www.aihaaccreditedlabs.org) for the most current Scope.

Cheryl O Morton

Theref O. Martan

Managing Director, AIHA Laboratory Accreditation Programs, LLC

Revision21: 05/15/2023 Date Issued: 07/01/2023

United States Environmental Protection Agency This is to certify that



AES International, Inc.

has fulfilled the requirements of the Toxic Substances Control Act (TSCA) Section 402, and has received certification to conduct lead-based paint renovation, repair, and painting activities pursuant to 40 CFR Part 745.89

In the Jurisdiction of:

All EPA Administered States, Tribes, and Territories

This certification is valid from the date of issuance and expires

November 15, 2025

NAT-87801-3

Certification #

September 04, 2020

Issued On



Michelle Price, Chief

Lead, Heavy Metals, and Inorganics Branch



DRNA Lead Inspector Credentials







Appendix II



Performance Characteristic Sheet

EFFECTIVE DATE: December 1, 2015

MANUFACTURER AND MODEL:

Make: *Heuresis*Models: *Model Pb200i*

Source: ⁵⁷Co, 5 mCi (nominal – new source)

FIELD OPERATION GUIDANCE

OPERATING PARAMETERS:

Action Level mode

XRF CALIBRATION CHECK LIMITS:

0.8 to 1.2 mg/cm² (inclusive)

SUBSTRATE CORRECTION:

Not applicable

INCONCLUSIVE RANGE OR THRESHOLD:

ACTION LEVEL MODE	SUBSTRATE	THRESHOLD (mg/cm²)
READING DESCRIPTION		
Results not corrected for substrate bias on any	Brick	1.0
substrate	Concrete	1.0
Substitute	Drywall	1.0
	Metal	1.0
	Plaster	1.0
	Wood	1.0

BACKGROUND INFORMATION

EVALUATION DATA SOURCE AND DATE:

This sheet is supplemental information to be used in conjunction with Chapter 7 of the HUD *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing* ("HUD Guidelines"). Performance parameters shown on this sheet are calculated using test results on building components in the HUD archive. Testing was conducted on 146 test samples in November 2015, with two separate instruments running software version 2.1-2 in Action Level test mode. The actual source strength of each instrument on the day of testing was approximately 2.0 mCi; source ages were approximately one year.

OPERATING PARAMETERS

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

XRF CALIBRATION CHECK:

The calibration of the XRF instrument should be checked using the paint film nearest 1.0 mg/cm² in the NIST Standard Reference Material (SRM) used (e.g., for NIST SRM 2579, use the 1.02 mg/cm² film).

If the average (rounded to 1 decimal place) of three readings is outside the acceptable calibration check range, follow the manufacturer's instructions to bring the instrument into control before XRF testing proceeds.

SUBSTRATE CORRECTION VALUE COMPUTATION:

Chapter 7 of the HUD Guidelines provides guidance on correcting XRF results for substrate bias. Supplemental guidance for using the paint film nearest 1.0 mg/cm² for substrate correction is provided:

XRF results are corrected for substrate bias by subtracting from each XRF result a correction value determined separately in each house for single-family housing or in each development for multifamily housing, for each substrate. The correction value is an average of XRF readings taken over the NIST SRM paint film nearest to 1.0 mg/cm² at test locations that have been scraped bare of their paint covering. Compute the correction values as follows:

Using the same XRF instrument, take three readings on a bare substrate area covered with the NIST SRM paint film nearest 1 mg/cm². Repeat this procedure by taking three more readings on a second bare substrate area of the same substrate covered with the NIST SRM.

Compute the correction value for each substrate type where XRF readings indicate substrate correction is needed by computing the average of all six readings as shown below.

<u>For each substrate type</u> (the 1.02 mg/cm² NIST SRM is shown in this example; use the actual lead loading of the NIST SRM used for substrate correction):

Correction value = (1st + 2nd + 3rd + 4th + 5th + 6th Reading)/6 - 1.02 mg/cm²

Repeat this procedure for each substrate requiring substrate correction in the house or housing development.

EVALUATING THE QUALITY OF XRF TESTING:

Randomly select ten testing combinations for retesting from each house or from two randomly selected units in multifamily housing.

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

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

Compute the Retest Tolerance Limit by the following steps:

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

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

Square the average for each testing combination.

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

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

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

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

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

Compute the average of all ten original XRF readings.

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

Find the absolute difference of the two averages.

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

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

TESTING TIMES:

In the Action Level paint test mode, the instrument takes the longest time to complete readings close to the Federal standard of 1.0 mg/cm². The table below shows the mean and standard deviation of actual reading times by reading level for paint samples during the November 2015 archive testing. The tested instruments reported readings to one decimal place. No significant differences in reading times by substrate were observed. These times apply only to instruments with the same source strength as those tested (2.0 mCi). Instruments with stronger sources will have shorter reading times and those with weaker sources, longer reading times, than those in the table.

Mean and Standard	Mean and Standard Deviation of Reading Times in Action Level Mode by Reading Level										
Reading (mg/cm²)	Mean Reading Time (seconds)	Standard Deviation (seconds)									
< 0.7	3.48	0.47									
0.7	7.29	1.92									
0.8	13.95	1.78									
0.9 – 1.2	15.25	0.66									
1.3 – 1.4	6.08	2.50									
<u>≥</u> 1.5	3.32	0.05									

CLASSIFICATION OF RESULTS:

XRF results are classified as **positive** if they are **greater than or equal** to the stated threshold for the instrument (1.0 mg/cm²), and *negative* if they are *less than* the threshold.

DOCUMENTATION:

A report titled *Methodology for XRF Performance Characteristic Sheets* (EPA 747-R-95-008) provides an explanation of the statistical methodology used to construct the data in the sheets, and provides empirical results from using the recommended inconclusive ranges or thresholds for specific XRF instruments. The report may be downloaded at http://www2.epa.gov/lead/methodology-xrf-performance-characteristic-sheets-epa-747-r-95-008-september-1997.

This XRF Performance Characteristic Sheet (PCS) was developed by QuanTech, Inc., under a contract with the XRF manufacturer.



Appendix III



LEAD BASED PAINT TESTING DATA SHEET

Client Name: Applied Engineering Date: 10/9/23

Project Name: Improvements on Bosque Street and Ramírez Silva Street Inspector: Javier Medina

Address: Mayagüez, Puerto Rico XRF Serial No.: 2222

Reading #	Street	Substrate	Color	Component	Hour	XRF Reading (mg/cm2)	Paint Cond.	Measures
1				Calibration	8:36	1.0		
2				Calibration	8:37	1.0		
3				Calibration	8:39	1.1		
4	Ramírez Silva	Concrete	Yellow	Sidewalk Curb De Diego / Ramírez	8:48	1.3		
5	Ramírez Silva	Metal	Black	Sign Post - Cemetery	8:51	1.4		
6	Ramírez Silva	Concrete	Yellow	Sidewalk Curb - Gray Bldg. Entrance	8:55	7.4		
7	Ramírez Silva	Concrete	Yellow	Sidewalk Curb - Cream Color Struct.	8:58	0.4		
8	Ramírez Silva	Metal	Yellow	Sign Post - Street Sign	9:03	1.3		
9	Ramírez Silva	Concrete	Yellow	Sidewalk Curb - Acacia St.	9:04	0.4		
10	Ramírez Silva	Metal	Black	Sign Post	9:07	7.4		
11	Ramírez Silva	Concrete	Yellow	Entrance to Structure	9:09	0.7		
12	Ramírez Silva	Concrete	Yellow	Entrance to Structure	9:13	4.6		
13	Ramírez Silva	Concrete	White/Blue	Sidewalk Border	9:17	1.1		
14	Ramírez Silva	Concrete	Yellow	Sidewalk Border - Corner Street	9:20	2.7		
15	Ramírez Silva	Concrete	Yellow	Sidewalk Border/Corner Flores St.	9:24	0.1		

LEAD BASED PAINT TESTING DATA SHEET

Client Name: Applied Engineering Date: 10/9/23

Project Name: Improvements on Bosque Street and Ramírez Silva Street Inspector: Javier Medina

Address: Mayagüez, Puerto Rico XRF Serial No.: 2222

Reading #	Street	Substrate	Color	Component	Hour	XRF Reading (mg/cm2)	Paint Cond.	Measures
16	Ramírez Silva	Wood	White	Sign Post - PREPA	9:27	0.1		
17	Ramírez Silva	Concrete	Yellow	Sidewalk Border & Lot Entrance	9:30	0.2		
18	Ramírez Silva	Concrete	Yellow	Sidewalk Bord-Corner Ramírez/Bosque St.	9:31	1.2		
19	Bosque	Concrete	Yellow	Entrance to Structure	9:35	0.2		
20	Bosque	Concrete	Yellow	Entrance to Beige Structure	9:37	0.2		
21	Bosque	Concrete	Yellow	Entrance to Yellow Structure	9:38	0.0		
22	Bosque	Concrete	Yellow	Entrance to Yellow Struct Left Side	9:39	0.1		
23	Bosque	Concrete	Yellow	Entrance Beige Structure	9:40	0.0		
24	Bosque	Concrete	Yellow	Sidewalk Border in front Beige Structure	9:41	0.3		
25	Bosque	Plastic	Yellow	Sign Post	9:42	0.4		
26	Bosque	Concrete	Yellow	Entrance to Blue / Brown Building	9:45	1.3		
27	Bosque	Metal	Yellow	Chains 1 Post	9:46	0.2		
28	Bosque	Concrete	Yellow	Chains 1 Post Base	9:47	0.1		
29	Bosque	Metal	Yellow	Chains 2 Post	9:48	0.2		
30	Bosque	Concrete	Yellow	Chains 2 Post Base	9:49	0.1		
31	Bosque	Metal	Yellow	Chains 3 Post	9:50	0.2		

LEAD BASED PAINT TESTING DATA SHEET

Client Name: Applied Engineering Date: 10/9/23

Project Name: Improvements on Bosque Street and Ramírez Silva Street

Inspector: Javier Medina

Address: Mayagüez, Puerto Rico XRF Serial No.: 2222

Reading #	Street	Substrate	Color	Component	Hour	XRF Reading (mg/cm2)	Paint Cond.	Measures
32	Bosque	Metal	Yellow	Chains 4 Post	9:51	0.1		
33	Bosque	Concrete	Yellow	Chains 4 Post Base	9:52	0.1		
34	Bosque	Concrete	Yellow	Entrance to Gray Structure	9:56	0.2		
35	Bosque	Concrete	Yellow	Entrance to Gray Structure	9:57	0.2		
36	Bosque	Concrete	Yellow	Entrance by Orquídea Street	9:59	0.4		
37	Bosque	Concrete	Yellow	Corner Sidewalk Border Orquídea Street	10:03	0.4		
38	Bosque	Metal	Black	Post Street Sign	10:06	1.1		
39	Bosque	Concrete	Yellow	Entrance Border Bosque Street Bldg.	10:08	0.1		
40	Bosque	Concrete	Yellow	Entrance Buildings 18 and 20	10:09	0.0		
41	Bosque	Concrete	Yellow	Entry. Sidewalk Border Bosque St Left Side	11:11	4.2		
42	Bosque	Concrete	Yellow	Parking Entrance and Sidewalk Border	10:13	0.2		
43	Bosque	Concrete	Yellow	Parking Entrance and Sidewalk Border	10:14	0.3		
44	Bosque	Concrete	Yellow	Border and Entrance to Bosque No. 12	10:20	0.0		
45	Bosque	Concrete	Lt. Yellow	Entrance to Bosque No. 12 - Left Side	10:21	0.2		
46	Bosque	Metal	Yellow	Chains Post Bosque No. 12 - Left Side	10:22	0.0		
47	Bosque	Concrete	Yellow	Corner Sidewalk Border Beige Bldg Right	10:23	0.1		

LEAD BASED PAINT TESTING DATA SHEET

Client Name: Applied Engineering Date: 10/9/23

Project Name: Improvements on Bosque Street and Ramírez Silva Street Inspector: Javier Medina

Address: Mayagüez, Puerto Rico XRF Serial No.: 2222

Reading #	Street	Substrate	Color	Component	Hour	XRF Reading (mg/cm2)	Paint Cond.	Measures
48	Bosque	Concrete	Yellow	Sidewalk Border & Entry. Left Side Bldg.	10:24	0.2		
49	Bosque	Concrete	Yellow	Sidewalk Border - Front of Light Meter	10:29	1.4		
50	Bosque	Wood	Yellow	Sign Post - PREPA	10:30	1.0		
51	Bosque	Concrete	White	Post Base - PREPA	10:31	1.5		
52	Bosque	Plastic	Yellow	Plastic Tube	10:35	3.6		
53	Bosque	Concrete	Yellow	Sidewalk Border in Front of Post	10:36	1.1		
54	Bosque	Asphalt	Yellow	Floor Lines in Front of Post	10:38	3.0		
55	Bosque	Concrete	Yellow	Sidewalk Border Int. Bosque / Dr. Basora	10:42	2.5		
56	Bosque	Concrete	Blue	Handicapped Ramp	10:43	0.3		
57	Bosque	Metal	Black	Stop Sign Post	10:44	0.1		
58	Bosque	Metal	Black/Yellow	No Parking Sign Post	10:47	1.1		
59	Bosque	Concrete	Yellow	Border & Entrance Bosque St Left	10:52	1.1		
60	Bosque	Concrete	Blue	Handicapped Ramp	10:53	0.0		
61	Bosque	Concrete	White	Post Base - PREPA	10:54	0.0		
62	Bosque	Wood	White	Wood Post - PREPA	10:55	0.1		
63	Bosque	Concrete	Cream	Base	10:56	0.3		

LEAD BASED PAINT TESTING DATA SHEET

Client Name: Applied Engineering Date: 10/9/23

Project Name: Improvements on Bosque Street and Ramírez Silva Street

Inspector: Javier Medina

Address: Mayagüez, Puerto Rico XRF Serial No.: 2222

Reading #	Street	Substrate	Color	Component	Hour	XRF Reading (mg/cm2)	Paint Cond.	Measures
64	Bosque	Concrete	Yellow	Light Meter Numbers	10:58	0.2		
65	Bosque	Concrete	Cream	Post Base - PREPA	10:59	0.1		
66	Bosque	Metal	Yellow	Post - Right Side	11:01	1.9		
67	Bosque	Concrete	Yellow	Entrance to Beige Color Building	11:02	0.4		
68	Bosque	Metal	Yellow	Post - Left Side	11:03	2.6		
69	Bosque	Concrete	Cream	Post Base - PREPA	11:05	0.2		
70	Bosque	Wood	Cream	PREPA Post	11:06	0.1		
71	Bosque	Concrete	Cream	PREPA Post	11:08	0.1		
72	Bosque	Concrete	Cream	PREPA Post	11:09	0.2		
73	Bosque	Concrete	Yellow	S/W Border & Entrance Beige Bldg.	11:13	0.2		
74	Bosque	Wood	White	PREPA Post	11:14	0.2		
75	Bosque	Concrete	Yellow	Entrance and Sidewalk Border	11:15	0.4		
76	Bosque	Plastic	Yellow	Post - Right Side	11:17	0.2		
77	Bosque	Concrete	Yellow	Post Base	11:18	0.1		
78	Bosque	Concrete	Yellow	Sidewalk Border in Front of Post	11:19	0.1		
79	Bosque	Plastic	Yellow	Post - Left Side	11:20	0.2		

LEAD BASED PAINT TESTING DATA SHEET

Client Name: Applied Engineering Date: 10/9/23

Project Name: Improvements on Bosque Street and Ramírez Silva Street

Inspector: Javier Medina

Address: Mayagüez, Puerto Rico XRF Serial No.: 2222

Reading #	Street	Substrate	Color	Component	Hour	XRF Reading (mg/cm2)	Paint Cond.	Measures
80	Bosque	Concrete	Yellow	Post Base - Left Side	11:21	0.1		
81	Bosque	Metal	Yellow	Fire Pump		0.1		
82	Bosque	Concrete	Yellow	Sidewalk Border Front of Gray Bldg.		0.0		
83				Calibration		1.0		
84				Calibration		1.1		
85				Calibration		1.0		
86				RE-TESTING				
87	Bosque	Concrete	Cream	PREPA Post	11:08	0.1		
88	Bosque	Concrete	Cream	PREPA Post	11:09	0.2		
89	Bosque	Concrete	Yellow	Sidewalk Border & Entrance Beige Bldg	11:13	0.2		
90	Bosque	Wood	White	PREPA Post	11:14	0.2		
91	Bosque	Concrete	Yellow	Entrance and Sidewalk Border	11:15	0.4		
92	Bosque	Plastic	Yellow	Post - Right Side	11:17	0.2		
93	Bosque	Concrete	Yellow	Post Base	11:18	0.1		

ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.

611 Monserrate Street, 2nd. Floor, Santurce, P. R. 00907

LEAD BASED PAINT TESTING DATA SHEET

Client Name: Applied Engineering Date: 10/9/23

Project Name: Improvements on Bosque Street and Ramírez Silva Street

Inspector: Javier Medina

Address: Mayagüez, Puerto Rico XRF Serial No.: 2222

Reading #	Street	Substrate	Color	Component	Hour	XRF Reading (mg/cm2)	Paint Cond.	Measures
94	Bosque	Concrete	Yellow	Sidewalk Border in Front of Post	11:19	0.1		
95	Bosque	Plastic	Yellow	Post - Left Side	11:20	0.2		
96	Bosque	Concrete	Yellow	Post Base - Left Side	11:21	0.1		
97				Calibration		1.0		
98				Calibration		1.0		
99				Calibration		1.0		

LEAD BASED PAINT TESTING DATA SHEET

Client Name: Applied Engineering Date: 10/9/23

Project Name:Improvements on Bosque Street and Ramírez Silva StreetInspector:Javier MedinaAddress:Mayagüez, Puerto RicoXRF Serial No.:2222

Reading #	Street	Substrate	Color	Component	Hour	XRF Reading (mg/cm2)	Paint Cond.	Measures
100				Calibration	8:17	1.0		
101				Calibration	8:18	1.0		
102				Calibration	8:19	1.0		
103	Bosque	Metal	Yellow	Fire Pump	8:27	0.0		
104	Bosque	Concrete	Yellow	Sidewalk Border in Front Gray Bldg.	8:31	1.3		
105	Bosque	Wood	White	PREPA Light Post	8:32	0.1		
106	Bosque	Concrete	White	Post Base	8:33	0.3		
107	Bosque	Concrete	Yellow	Sidewalk Border in Front of Caffeto	8:35	1.3		
108	Bosque	Concrete	Yellow	Sidewalk Border IKON Condominium	8:40	1.3		
109	Bosque	Concrete	Yellow	Sidewalk Border IKON Condominium	8:43	3.1		
110	Bosque	Concrete	White	PREPA Post	8:44	0.1		
111	Bosque	Concrete	White	PREPA Post Base	8:45	0.0		
112	Bosque	Wood	White	PREPA Post	8:46	0.0		
113	Bosque	Concrete	Yellow	Sidewalk Border-Bosque St Right	8:48	0.0		
114	Bosque	Plastic	Yellow	Chain Tube - Right Side	8:49	0.0		
115	Bosque	Plastic	Yellow	Chain Tube - Left Side	8:50	0.0		

LEAD BASED PAINT TESTING DATA SHEET

Client Name: Applied Engineering Date: 10/9/23

Project Name:Improvements on Bosque Street and Ramírez Silva StreetInspector:Javier MedinaAddress:Mayagüez, Puerto RicoXRF Serial No.:2222

Reading #	Street	Substrate	Color	Component	Hour	XRF Reading (mg/cm2)	Paint Cond.	Measures
116	Bosque	Concrete	Yellow	Sidewalk Border & Line front Bosque St.	8:51	0.0		
117	Bosque	Concrete	Yellow	Sidewalk Border and Entrance #53	8:53	0.4		
118	Bosque	Wood	White	PREPA Post	8:54	0.2		
119	Bosque	Concrete	White	PREPA Post Base	8:55	0.1		
120	Bosque	Metal	White	Post	8:56	0.0		
121	Bosque	Concrete	Yellow	Right Entrance to Laundromat	8:58	0.2		
122	Bosque	Concrete	Yellow	Laundromat Parking Line	8:59	0.3		
123	Bosque	Concrete	Yellow	Sidewalk Left Side	9:00	0.2		
124	Bosque	Wood	White	PREPA Post	9:01	0.1		
125	Bosque	Concrete	White	PREPA Post Base	9:02	0.1		
126	Bosque	Metal	Yellow	Water Hydrant	9:03	10.7		
127	Bosque	Concrete	Yellow	Ramirez Entrance Right Side, Bosque 61	9:10	3.5		
128	Bosque	Concrete	Yellow	Sidewalk Border front Bosque 61	9:11	3.5		
129	Bosque	Concrete	Yellow	Ramirez Entrance Left Side, Bosque 61	9:12	2.9		
130	Bosque	Concrete	Yellow	Entrance Grillón 67 - Right Side	9:16	0.2		
131	Bosque	Wood	White	PREPA Post	9:17	0.1		

LEAD BASED PAINT TESTING DATA SHEET

Client Name: Applied Engineering Date: 10/9/23

Project Name:Improvements on Bosque Street and Ramírez Silva StreetInspector:Javier MedinaAddress:Mayagüez, Puerto RicoXRF Serial No.:2222

Reading #	Street	Substrate	Color	Component	Hour	XRF Reading (mg/cm2)	Paint Cond.	Measures
132	Bosque	Concrete	White	PREPA Post Base	9:18	0.2		
133	Bosque	Metal	White	PREPA Tube of Post	9:19	0.0		
134	Bosque	Metal	Yellow	Sign Post	9:20	1.4		
135	Bosque	Concrete	Yellow	Center Entrance by Grillón 67 Bldg.	9:22	0.2		
136	Bosque	Concrete	Yellow	Entrance Grillón 67 - Left Side	9:23	0.1		
137	Bosque	Concrete	Yellow	Sidewalk Border Inters. Bosque/Jiménez St.	9:26	0.3		
138	Bosque	Wood	White	Entrance Border Bosque Street Bldg.	9:27	0.1		
139	Jiménez	Concrete	Yellow	Sidewalk Border Jiménez St Left Side	9:35	0.2		
140	Jiménez	Concrete	White	PREPA Post	9:37	0.1		
141	Jiménez	Concrete	Yellow	Sidewalk Border to Jiménez 60	9:38	0.2		
142	Jiménez	Wood	White	PREPA Post - Front of Jiménez 60	9:39	0.1		
143	Jiménez	Concrete	Yellow	Sidewalk Border to Entrance Flores St.	9:41	0.0		
144	Jiménez	Concrete	Yellow	Sidewalk Border to Entrance Flores St.	9:44	0.5		
145	Jiménez	Metal	Yellow	Fire Pump	9:45	0.0		
146	Jiménez	Concrete	Yellow	Entrance by Domenech Condominium	9:46	0.0		
147	Jiménez	Metal	Black	Post No Parking Sign	9:47	0.1		

LEAD BASED PAINT TESTING DATA SHEET

Client Name: Applied Engineering Date: 10/9/23

Project Name:Improvements on Bosque Street and Ramírez Silva StreetInspector:Javier MedinaAddress:Mayagüez, Puerto RicoXRF Serial No.:2222

Reading #	Street	Substrate	Color	Component	Hour	XRF Reading (mg/cm2)	Paint Cond.	Measures
148	Jiménez	Concrete	Yellow	Entrance Domenech Cond Left Side	9:50	0.2		
149	Jiménez	Metal	Black	Sign Post Front of Condominium	9:51	0.1		
150	Jiménez	Concrete	Yellow	Sidewalk Border & Entry. Condo Left Side	9:53	0.2		
151	Jiménez	Metal	Black	No Parking Sign - Side of Condo.	9:55	1.1		
152	Jiménez	Wood	White	PREPA Post	9:56	0.1		
153	Jiménez	Concrete	White	PREPA Post Base	9:57	0.2		
154	Jiménez	Metal	White	Tube Attached to PREPA Post	9:59	0.1		
155	Jiménez	Concrete	Yellow	Sidewalk Border Acacia St Right Side	10:00	0.2		
156	Jiménez	Metal	Black	Sign Stop	10:02	1.1		
157	Jiménez	Concrete	White	PREPA Post	10:03	0.1		
158	Jiménez	Concrete	Yellow	Sidewalk Border Acacia St Left Side	10:04	0.2		
159	Jiménez	Metal	Black	Sign Post in Front of Edge Legal	10:06	0.1		
160	Jiménez	Concrete	Yellow	Sidewalk Border in Front of Edge Legal	10:13	1.7		
161	Jiménez	Wood	White	PREPA Post	10:14	0.1		
162	Jiménez	Concrete	Yellow	Sidewalk Border Int. De Diego - Right	10:16	0.2		
163	Jiménez	Wood	White	PREPA Post	10:17	0.1		

LEAD BASED PAINT TESTING DATA SHEET

Client Name: Applied Engineering Date: 10/9/23

Project Name:Improvements on Bosque Street and Ramírez Silva StreetInspector:Javier MedinaAddress:Mayagüez, Puerto RicoXRF Serial No.:2222

Reading #	Street	Substrate	Color	Component	Hour	XRF Reading (mg/cm2)	Paint Cond.	Measures
164	Jiménez	Metal	Yellow	Sign Post - Front of Jiménez 10	10:18	1.2		
165	Jiménez	Concrete	Yellow	Sidewalk Border Int. De Diego - Left	10:20	1.2		
166	Jiménez	Metal	Yellow	Fire Pump	10:21	0.1		
167	Jiménez	Metal	Black	No Parking Sign Post	10:24	2.7		
168	Jiménez	Concrete	Yellow	Sidewalk Border - Parking Front	10:31	3.3		
169	Jiménez	Wood	Cream	PREPA Post - Parking - Left Side	10:35	0.2		
170	Jiménez	Concrete	Yellow	Sidewalk Border Front of PREPA Post	10:36	1.7		
171	Jiménez	Concrete	Yellow	S/W Border - Front Ophthalmology Bldg.	10:39	2.0		
172	Jiménez	Concrete	Yellow	Floor Lines Entrance Building	10:40	0.2		
173	Jiménez	Concrete	White	PREPA Post at the End of the Street	10:42	0.1		
174	Jiménez	Concrete	White	PREPA Post Base	10:43	0.2		
175	Jiménez	Metal	White	Tube Attached to PREPA Post	10:44	0.2		
176	Jiménez	Concrete	Black	Fire Pump	10:46	5.5		
177	Jiménez	Metal	Black	Street Sign Post	10:53	2.7		
178	Jiménez	Concrete	Yellow	Sidewalk Border front of Cond.	10:54	1.7		
179	Jiménez	Wood	White	PREPA Post	10:55	0.1		

LEAD BASED PAINT TESTING DATA SHEET

Client Name: Date: 10/9/23 **Applied Engineering**

Project Name: Improvements on Bosque Street and Ramírez Silva Street Inspector: Javier Medina Address:

XRF Serial No.: 2222 Mayagüez, Puerto Rico

Reading #	Street	Substrate	Color	Component	Hour	XRF Reading (mg/cm2)	Paint Cond.	Measures
180	Jiménez	Metal	Black	Tube Attached to PREPA Post	10:56	0.6		
181	Jiménez	Metal	Black	No Parking Sign Post	10:59	2.1		
182	Jiménez	Wood	White	PREPA Post in Front of Sidewalk	11:12	0.2		
183	Jiménez	Metal	Black	Tube Attached to PREPA Post	11:13	0.1		
184	Jiménez	Metal	Black	No Parking Sign Post	11:14	1.2		
185	Jiménez	Concrete	Yellow	Sidewalk Border in Front of PREPA	11:15	1.3		
186	Jiménez	Concrete	Yellow	Entrance to Structure No. 9	11:19	3.3		
187	Jiménez	Metal	Black	No Parking Sign Post	11:20	2.3		
188	Jiménez	Concrete	Yellow	Sidewalk Border Intersection De Diego St	11:22	0.2		
189	Jiménez	Wood	White	PREPA Post	11:23	0.2		
190				Calibration	11:25	1.0		
191				Calibration	11:26	1.0		
192				Calibration	11:28	1.0		
193				RE-TESTING				
194	Jiménez	Metal	Black	Tube Attached to PREPA Post	10:56	0.6		
195	Jiménez	Metal	Black	No Parking Sign Post	10:59	2.1		

ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.

611 Monserrate Street, 2nd. Floor, Santurce, P. R. 00907

LEAD BASED PAINT TESTING DATA SHEET

Client Name: Applied Engineering Date: 10/9/23

Project Name:Improvements on Bosque Street and Ramírez Silva StreetInspector:Javier MedinaAddress:Mayagüez, Puerto RicoXRF Serial No.:2222

Reading #	Street	Substrate	Color	Component	Hour	XRF Reading (mg/cm2)	Paint Cond.	Measures
196	Jiménez	Wood	White	PREPA Post in Front of Sidewalk	11:12	0.2		
197	Jiménez	Metal	Black	Tube Attached to PREPA Post	11:13	0.1		
198	Jiménez	Metal	Black	No Parking Sign Post	11:14	0.2		
199	Jiménez	Concrete	Yellow	Sidewalk Border in Front of PREPA	11:15	1.3		
200	Jiménez	Concrete	Yellow	Entrance to Structure No. 9	11:19	3.3		
201	Jiménez	Metal	Black	No Parking Sign Post	11:20	2.3		
202	Jiménez	Concrete	Yellow	Sidewalk Border Intersection De Diego St.	11:22	0.2		
203	Jiménez	Wood	White	PREPA Post	11:23	0.2		
204				Calibration		1.0		
205				Calibration		1.0		
206				Calibration		1.0		



Appendix IV



Site Location: "Mejoras en la calle Bosques y la calle Lic. Ramírez Silva", Mayagüez, Puerto Rico (PR-CRP-000857).







10 St. Montecarlo Ave. #866 Río Piedras, PR 00924-5818 P.O. Box 361298 San Juan, Puerto Rico 00936-1298

Nombre del proyecto: Mejoras en la calle Bosque y la calle Lic. Ramírez Silva.

Número del Proyecto: PR-CRP-000857

Localización: Calle Bosque, Mayagüez, Puerto Rico 00680 (18.204804, -

67.140518) and Calle Lic. A. Ramírez Silva, Mayagüez, Puerto Rico

00680 (18.203980, -67.145075).





Item 1: Acera en la calle Lic. Ramírez





























MANAGERS, ARCHITECTS, ENGINEERS AND PLANNERS





Item 3: Acera Calle Lic. Ramírez

























MANAGERS, ARCHITECTS, ENGINEERS AND PLANNERS



Item 4: Acera en la calle Bosque.



Item 5: Pavimento de la calle Bosque

















MANAGERS, ARCHITECTS, ENGINEERS AND PLANNERS



10 St. Montecarlo Ave. #866 Río Piedras, PR 00924-5818 P.O. Box 361298 San Juan, Puerto Rico 00936-1298

Item 6: Acera calle Bosque













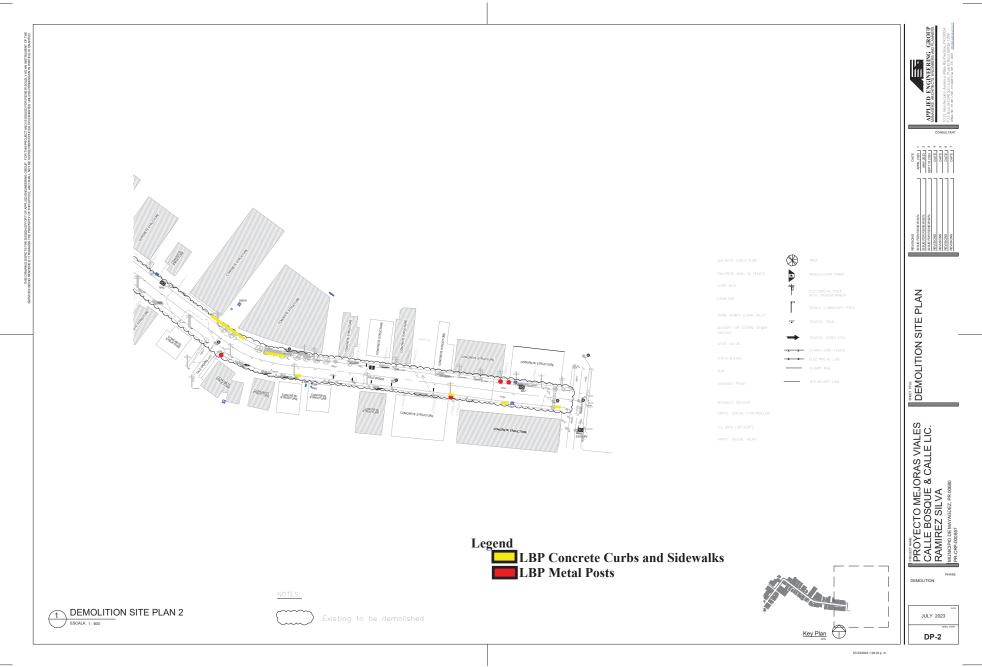


Appendix V





Schematic Distribution of LBP Components at "Mejoras en la calle Bosques y la calle Lic. Ramírez Silva" (PR-CRP-000857), Mayagüez Puerto Rico.





ASBESTOS



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- 4.0 METHODS OF BUILDING INSPECTIONS
- 5.0 SAMPLING METHODS
- 6.0 INSPECTION RESULTS AND CONCLUSIONS
- 7.0 CONCLUSIONS

APPENDIX I - AESI Certifications and Accreditations

APPENDIX II - Hazard Assessment

APPENDIX III - Site Location and Selective Photos

I. SUMMARY

A survey for Asbestos Containing Materials (ACM) was conducted by Analytical Environmental Services International (AES International), Inc. for a project identified as "Mejoras en la calle Bosques y la calle Lic. Ramírez Silva", Mayagüez, Puerto Rico (PR-CRP-000857).

The inspection was conducted on 10/9/2023 by Javier Medina, a DRNA/AHERA certified asbestos inspector.

No suspected materials were observed during the inspection and accordingly samples were not collected.

1.0 INTRODUCTION

A survey for Asbestos Containing Materials (ACM) was conducted by Analytical Environmental Services International, Inc. (AES International) for a Project identified as "Mejoras en la calle Bosques y la calle Lic. Ramírez Silva", Mayagüez, Puerto Rico (PR-CRP-000857).

The survey was conducted on 10/9/2023 by Javier Medina, a DRNA/AHERA certified asbestos building inspector (see Appendix I for credentials). The inspection was scheduled to be performed based on a modified ASTM E2356-18 protocol, that included a visual inspection and collection of samples.

2.0 GENERAL BACKGROUND

Asbestos was used in the construction industry from 1900 to 1989. It is still being used today in various products. The health effects of asbestos have been studied since the 1930's. More health studies have been conducted in asbestos than any other natural substance. The mere presence of asbestos containing materials does not necessarily constitute a health hazard. However, when these materials become disturbed from building renovation, maintenance, or other everyday activities that allow fibers to be released into the environment, a potential hazard does exist. The relationship between exposure level and health risk is very complex. Although this relationship is not completely understood, asbestos exposure has been associated with various types of lung diseases including a debilitating lung disease called ASBESTOSIS; a rare cancer of chest called MESOTHELIOMA; and cancers of the esophagus, stomach, colon and other organs. Asbestosis is not fatal; it is, however, incurable. One who has it cannot breathe easily, and physical activity becomes limited. MESOTHELIOMA is 100% fatal, as there is no cure. These diseases can be directly linked to asbestos because of the mineral particles that can be found in the lining of the lungs and stomach, since the body cannot Tests have determined that asbestos can cause cancer, but absorb these minerals. scientists disagree on the amount of asbestos fibers that must be inhaled to cause cancer. The nose filters out all visible particles. Therefore, only the microscopic fibers are the ones who cause the problems. Studies indicate different health effects resulting from exposure to chrysotile asbestos versus exposure to the amphibole form of asbestos. The latter, which include tremolite, amosite, actinolite, anthophyllite and crocidolite have more significant health impact than chrysotile. Some scientists cite studies concluding that is the size of the fibers deposited in the lungs that result in cancer. Long, thin fibers, greater than 8 microns in length and less than 0.25 microns in diameter show the highest potential of cancer development.

2.1 National Emission Standards for Hazardous Air Pollutants (NESHAP)

The EPA's rules concerning the application, removal, and disposal of ACM, as well as manufacturing, spraying and fabricating of ACM were issued under the asbestos

NESHAP regulation (U.S. EPA National Emission Standards for Hazardous Air Pollutants, 40 CFR 61 Subpart M, October 30, 1987). The asbestos NESHAP regulation governs asbestos demolition and renovation projects in all facilities. The NESHAP rule usually requires owners or operators to have all friable ACM removed before the building is demolished and may require its removal before renovation. If friable ACM shall be disturbed, the NESHAP rule may require appropriate work practices, or procedures for emission control. The rule states that any ACM, which may become friable, poses a potential hazard that should be addressed.

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

3.0 PROJECT IDENTIFICATION/DESCRIPTION

Project is identified as "Mejoras en la calle Bosques y la calle Lic. Ramírez Silva", Mayagüez, Puerto Rico (PR-CRP-000857). Due to its location, there are a high number of multi-residential buildings and commercial activity in the surrounding area. Both streets are used by residents and visitors to access residential units and businesses. Additionally, this route connects the center of Mayagüez with state highways PR-2 and PR-2R.

4.0 METHODS OF BUILDING INSPECTION

Each sample, if collected, should have been classified according to the condition of Asbestos Containing Materials (ACM) in that location and the potential for material disturbance. All the area was visually inspected.

5.0 SAMPLING METHODS

Samples were not collected, as no suspected ACM were observed during the visual inspection. The drain area was blocked by demolition debris and wild vegetation; therefore access was not feasible and samples were not collected.

6.0 INSPECTION RESULTS

Suspected materials were not observed during visual inspection.

7.0 CONCLUSIONS

A survey for ACM was conducted for "Mejoras en la calle Bosques y la calle Lic. Ramírez Silva", Mayagüez, Puerto Rico (PR-CRP-000857). The materials surveyed were described above. No suspected ACM were observed but the drain area was blocked by demolition debris and wild vegetation, therefore access was not feasible.

The ACM survey results do not include materials which are non-accessible, non-visible and may be present behind/inside the walls or hidden inside the structures. These materials must be assessed at the time of modernization.

Javier Medina, DRNA Asbestos Inspector Lic#: ASB-0823-0413-SI

Howar Moderna Posa



GOBIERNO DE PUERTO RICO OFICINA DEL GOBERNADOR JUNTA DE CALIDAD AMBIENTAL



PGC-

Área de Calidad de Agua

Forma P GC-009

CERTIFICACION DE NO PRESENCIA DE ASBESTO EN ESTRUCTURAS A DEMOLERSE

(Deberá completarse en letra de molde o impresa)

					PARA USO OFICIAL
	Medina _{e)} , ma HC01 Box 6016	ayor de edad,		_, y vecino de	Las Piedras (Municipio) 00771
Dirección Postal Teléfonos: Residencial Fax	(939 _{) 642 -} 3	3445 Oficina		eblo)	(Zip Code)
Certifico que:					
demolición se encu	uentra libre de asbesto.				_, la cual será objeto de una
 La información ante Afirmo y reconozco 	es indicada es cierta y c las consecuencias de l		información fa	alsa en este docur	mento
4. Para que así conste		rtificación en		San Juan	de Puerto Rico,
* Esta certificacion es e		Firma y Sello de ector de Asbesto r	Jolina (I Profesional o)	
	Arquitectos deberán so e Inspectores de Asbesto		-		

Dirección Física: Ave. Ponce de León 1308, Carr. Estatal 8838, Sector el Cinco, Río Piedras, PR 00926 Dirección Postal: Apartado 11488, Santurce, PR 00914088

Tel. (787) 767-8181 • Fax (787) 7671962





Appendix I



National Voluntary Laboratory Accreditation Program



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

AES International

611 Monserrate Santurce, PR 00907 Mr. Ady Padan

Phone: 787-722-0220 Fax: 787-724-5788 Email: yota1@bellsouth.net http://www.aesipr.org

ASBESTOS FIBER ANALYSIS

NVLAP LAB CODE 200051-0

Bulk Asbestos Analysis

Code	Description

18/A01 EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of

Asbestos in Bulk Insulation Samples

18/A03 EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

For the National Voluntary Laboratory Accreditation Program

United States Department of Commerce National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2017

NVLAP LAB CODE: 200051-0

AES International

Santurce, PR

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 Communique dated January 2009).

2023-01-01 through 2023-12-31

Effective Dates



For the National Voluntary Laboratory Accreditation Program

DRNA Asbestos Inspector Credentials





Appendix II



ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.

ASBESTOS SAMPLE INSPECTION FORM FOR PHYSICAL & HAZARD ASSESSMENT

Client Name	Applied Engineering Group					Road:	Calle Bosque y la Calle Lic. Ramírez Silva.		
Project Name:	Mejoras en la calle Bosque y la calle 000857), Mayagüez, PR	Lic. Ramír	ez Silva (P	R-CRP-					
Inspection Date:	ate: 10/9/23				Page:	1	of	1	
Homogeneous Material Description		Material Asbest	Asbestos	1		Asbestos	Total Square	AHERA Assessment	Hazard
I.D. Number	I.D. Number Material Description	Category Con	Content	nt	of Materials	Contents	Feet of ACM	Category (1-7,X, None)	Ranking (1-7)
	No Suspected ACM were observed								
Inspected by:	Javier Medina						Date:	10/9	0/23
-	e, NF = nonfriable, X = not applicable (material is Category: 1 = Damaged of significantly damaged		= Damaged fr	iable surfacing	ACBM: 3 = Signifi	cantly damaged fr	iable surfacing A	ACBM:	

4 = Damaged or significantly damaged friable miscellaneous ACBM; 5 = ACBM with potential for damage; 6 = ACBM with potential for significant damage;

7 = Any remaining friable ACBM or friable suspected ACBM; X = Not applicable (material is non-ACBM or non-friable surfacing or miscellaneous materials);

None = No assessment category provided in original inspection.

Hazard Ranking Category: 1 = Significantly damaged; 2 = Damaged and potential of significant damage; 3 = Damaged and potential for damage; 4 = Damaged;

5 = Potential for significant damage; 6 = Potential for damage; 7 = All remaining ACBM

^{* -} Unless Specified, the Asbestos Type is Chrysotile; ND - None Detected



Appendix III



Site Location: "Mejoras en la calle Bosques y la calle Lic. Ramírez Silva", Mayagüez, Puerto Rico (PR-CRP-000857).







10 St. Montecarlo Ave. #866 Río Piedras, PR 00924-5818 P.O. Box 361298 San Juan, Puerto Rico 00936-1298

Nombre del proyecto: Mejoras en la calle Bosque y la calle Lic. Ramírez Silva.

Número del Proyecto: PR-CRP-000857

Localización: Calle Bosque, Mayagüez, Puerto Rico 00680 (18.204804, -

67.140518) and Calle Lic. A. Ramírez Silva, Mayagüez, Puerto Rico

00680 (18.203980, -67.145075).





Item 1: Acera en la calle Lic. Ramírez





























MANAGERS, ARCHITECTS, ENGINEERS AND PLANNERS





Item 3: Acera Calle Lic. Ramírez

























MANAGERS, ARCHITECTS, ENGINEERS AND PLANNERS



Item 4: Acera en la calle Bosque.



Item 5: Pavimento de la calle Bosque

















MANAGERS, ARCHITECTS, ENGINEERS AND PLANNERS



10 St. Montecarlo Ave. #866 Río Piedras, PR 00924-5818 P.O. Box 361298 San Juan, Puerto Rico 00936-1298

Item 6: Acera calle Bosque





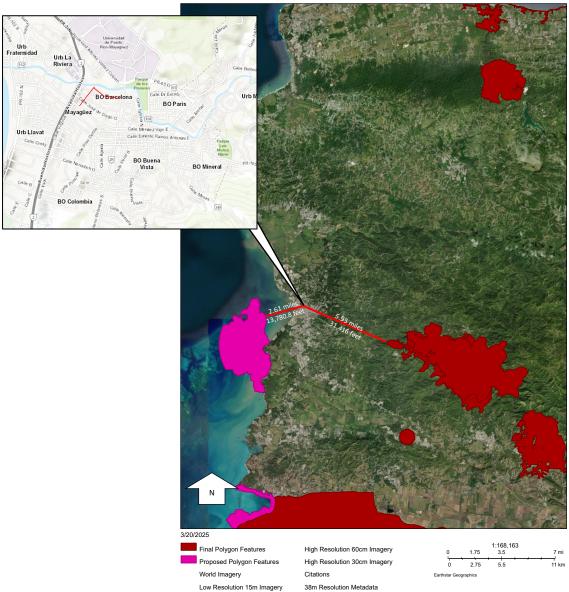








Critical Habitat for Threatened & Endangered Species [USFWS]



Attachment 8A: Critical Habitats Map

Project Name: Improvements to Bosque and Lic. A Ramírez Silva Streets, Municipality of Mayagüez Location: Bosque Street (Lat:18.204804, Long: -67.140518) and Ramírez Silva Street (Lat: 18.203980,

Long: -67.145075) Source: USFWS

Website: https://ecos.fws.gov/ecp/report/table/critical-habitat.html

Prepared by: Applied Engineering Group





United States Department of the Interior



FISH AND WILDLIFE SERVICE

Caribbean Ecological Services Field Office P.O. Box 491 Boqueron, PR 00622

In Reply Refer To: FWS/R4/CESFO/BKT/HUD

JAN 1 4 2013

Mr. Efrain Maldonado
Field Office Director
U.S. Department of Housing and Urban Development
235 Federico Costa Street, Suite 200
San Juan. Puerto Rico 00918

Re: Blanket Clearance Letter for Federally sponsored projects, Housing and Urban Development

Dear Mr. Maldonado:

The U.S. Fish and Wildlife Service (USFWS) is one of two lead Federal Agencies responsible for the protection and conservation of Federal Trust Resources, including threatened or endangered species listed under the Endangered Species Act of 1973 (16 U.S.C. 1531 et seq.) (ESA). In the U.S. Caribbean, the USFWS has jurisdiction over terrestrial plants and animals, the Antillean manatee and sea turtles when nesting. The National Marine Fisheries Service has jurisdiction over marine species, except for the manatee. The ESA directs all Federal agencies to participate in conserving these species. Specially, section 7 of the ESA requires Federal agencies to consult with the USFWS to ensure that actions they fund authorize, permit, or otherwise carry out will not jeopardize the continued existence of any listed species or adversely modify designated critical habitat. The USFWS issued regulations in 1986 detailing the consultation process. As part of this consultation process, the USFWS review development projects to assist Federal agencies on the compliance of the ESA.

The U.S. Department of Housing and Urban Development (HUD) typically allocate grant funds for rural and urban development projects. Obligations under the ESA, as well as the National Environmental Policy Act (NEPA), require HUD to perform consultation and an environmental impact review prior to the project's authorization. Primarily, these projects involve repair or reconstruction of existing facilities associated with developed land.

In order to expedite the consultation process, the Caribbean Ecological Services Field Office has developed this Blanket Clearance Letter (BCL) to cover for activities and projects that typically result in no adverse effects to federally-listed species under our jurisdiction. If projects comply with the project criteria discussed below, no further consultation with the USFWS is needed.

Project Criteria

- 1. Street resurfacing.
- 2. Construction of gutters and sidewalks along existing roads.
- Reconstruction or emergency repairs of existing buildings, facilities and homes.
- 4. Rehabilitation of existing occupied single family homes, and buildings; provided that equipment storage or staging areas are not located on vacant property harboring a wetland and/or forested vegetation and that the lighting associated to the new facilities is not visible directly or indirectly from a beach.
- Demolition of dilapidated single family homes or buildings; provided that the demolition debris is disposed in certified receiving facilities; equipment storage or staging areas are not located on vacant property harboring a wetland and/or forested vegetation.
- 6. Rebuilding of demolished single family homes or buildings, provided that the new construction is within the existing footprint of the previous structure and/or within pre-existing grassed or paved areas, and that the lighting associated to the new facilities are not visible directly or indirectly from a beach.
- 7. Activities within existing Right of Ways (ROWs) of roads, bridges and highways, when limited to actions that do not involve cutting native vegetation or mayor earth moving; and are not located within, or adjacent to, drainages, wetlands, or aquatic systems. These activities include the installation of potable water and sanitary pipelines.
- 8. Improvements to existing recreational facilities, including the installation of roofs to existing basketball courts, provided that the lighting associated to the facilities are not visible directly or indirectly from the beach.
- 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.

Determination:

Based on the nature of the projects described above and habitat characteristics described on project criteria, we have determined that the actions and type of projects described above may be conducted within this BCL without adversely affecting federally-listed

Mr. Maldonado

species under our jurisdiction. Thus, consultation under Section 7 of the Endangered Species Act is not required.

In all situations, HUD, and the municipalities are expected to implement Best Management Practices, where applicable, to ensure that impacts from erosion and stream sedimentation are appropriately minimized.

The Service encourages your agency to enhance the conservation of our trust resources (i.e.; listed species, wetlands, aquatic habitats, migratory birds and marine mammals). We therefore, provide the following recommendations that have proven to help in this way.

Water Crossing Structures:

- 1. Use of bottomless culverts or single span bridges instead of traditional box or RCP culverts or any other water crossing structure that impacts the stream bottom, particularly in streams which support native fish. The use of bottomless culverts or a short span bridge would provide a more stable crossing and would not alter the stream habitat. However, if bottomless structures or bridges are not feasible due to cost or engineering constraints, we recommend the following criteria be used to maintain good habitat in the streams:
 - a. The stream should not be widened to fit the bridge since this can lead to sedimentation during low flows and possible bank erosion during high flows. Rather, the bridge should be designed to fit the stream channel at the point of crossing. Culverts should be sized to carry natural bank full flow. Additional flow can be capture by culverts placed at a higher elevation so as not to impact bank full flows.
 - b. Bridge abutments, wing walls or any other structures should not intrude into the active stream channel.
 - c. All culvert footings must be countersunk into the stream channel at both the invert and outlet ends at a minimum of 10% of the culvert height. This will align the water crossing structure with the slope of the stream.
 - d. Waterways must not be blocked as to impede the free movement of water and fish. Materials moved during construction, such as grubbing, earth fills, and earth cut materials must not be piled where they can fall back into the stream and block the drainage courses.
 - e. Appropriate erosion and/or sedimentation controls measures are to be undertaken to protect water quality until riverbanks are re-vegetated. It has been our experience that appropriate erosion and/or sedimentation control measures are not implemented properly by project contractors. In order to function properly, silt fences need to be buried 6" (proper depth is marked by a line on the silt fence) and supported at regular intervals by wood stakes. For that reason we are recommending that

- the enclosed drawing of proper silt fence installation is included in all final project construction plans.
- f. Upon completion of a water crossing construction, any temporary fill, must be removed from the construction area and disposed in a landfill.

Limitations:

Actions that do not meet the above project criteria, such as actions requiring placement of fill, disturbance, or modification to land outside of an existing access road or ROW; actions that occur on vacant property harboring a wetland and/or forest vegetation; actions requiring excavation, clearing of native vegetation, or alteration of storm water drainage patterns; or actions that require lighting which can be directly or indirectly seen from a beach, must be individually coordinated through the Caribbean Ecological Services Field Office and will be evaluated on a case by case basis.

The Service reserves the right to revoke or modify this BCL if:

- New information reveals that the categories of work covered in this BCL may affect listed or designated critical habitat in a manner, or to an extent, not previously considered.
- 2. The categories of work included in this BCL are subsequently modified to include activities not considered in this review.
- 3. New species are listed or critical habitat designated that may be affected.

It is our mission to work with others, to conserve, protect and enhance fish wildlife and plants and their habitats for the continuing benefit of our people.

To obtain additional information on threatened and endangered species, you may visit our website http://www.fws.gov/caribbean/ES where you will also find the Map of the Species by Municipality and the Map of Critical Habitat. The USFWS has also developed a web based tool called IPac. Please visit http://www.ecos.fws.gov/ipac and familiarize yourself with the features we offer. We encourage you to begin your project planning process by requesting an **Official Species List** for your individual project that will include all species that may occur in the vicinity of the action area and includes a map of the action area. The site will also identify designated critical habitat, or other natural resources of concern that may be affected by your proposed project. At this time, best management practices or conservation measures are not available at the site but we expect the site to continue growing in its offering.

These maps provide information on the species/habitat relations within a municipality and could provide the applicants an insight if the proposed action is covered under this BCL or may affect a species, thus requiring individual review.

Mr. Maldonado 5

If you have any additional question regarding this BCL, please do not hesitate to contact Marelisa Rivera, Deputy Field Supervisor, at 787-851-7297 extension 206.

Sincerely yours,

Edwin E. Muñiz

Field Supervisor

Enclosures (Fact Sheets)

cc: OCAM, San Juan

Office of Federal Funds, 78 Municipalities of Puerto Rico

AAA

PRFAA

DNER



Ecological Services in the Caribbean

Caribbean Field Office

Project evaluation



Our mission is to conserve, protect and enhance fish and wildlife and their habitats through consultation, cooperation and communication for the continuing benefit of the American people.

Legal authorities:

- Endangered Species Act (ESA)
- Fish and Wildlife Coordination Act
- Migratory Bird Treaty Act
- Coastal Barriers Act

Roles and Responsibilities:

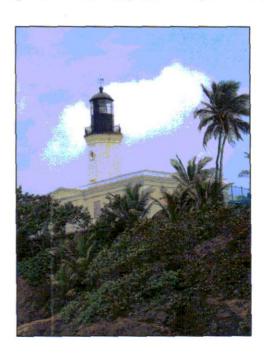
- Provide technical assistance to Federal and Commonwealth agencies to minimize possible impacts of land and water projects to our trust resources
 - *Wetlands and other aquatic habitats
 - *Endangered Species and their habitats
 - *Migratory Birds
 - *Critical Wildlife Areas
 - *Coastal Barriers
- Assist with ESA Section 7 compliance through informal and formal consultation processes

How do we assist others?

- Determine presence / absence of wetland resources, threatened and endangered species habitat, coastal barriers, important wildlife areas within the action area
- Evaluate possible direct, indirect and cumulative impacts
- Provide conservation recommendations to avoid, minimize and/or mitigate impacts
- General recommendations for habitat enhancement

Minimum requirements for the evaluation of projects:

- An 8.5 by 11 inch copy of the specific site location on a USGS topographic map (1:20,000) marked with an arrow (
- Project description
- Aerial photo of the project site
- Latitude and Longitude (degrees, minutes and seconds or decimal degrees)
- Environmental Documents (EA and EIS)
- Specific studies (by qualified personnel)



For more information:
US Fish and Wildlife Service
Caribbean Field Office
Raod 301, Km. 5.1
Bo. Corozo
Boquerón, PR 00622
http://www.fws.gov/caribbean/es



Caribbean Ecological Services Field Office

Endangered Species Lists Using Web-based Tools

The U.S. Fish and Wildlife Service's Caribbean Ecological Services Field Office (CESFO) provides technical assistance to private individuals and organizations, as well as Federal, state, and local agencies pursuant to the Endangered Species Act of 1973 (ESA) (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.). To assist project sponsors or applicants with the process of determining whether a Federally-listed species and/or "critical habitat" may occur within their proposed project area, we have developed Web-based tools. These tools were developed primarily to assist Federal agencies that are consulting with us under Section 7(a)(2) of the Endangered Species Act (ESA) (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.).

IPaC. The US Fish& Wildlife Service (USFWS) has a tool named IPaC. IPaC stands for Information, Planning. and Conservation. This system is designed for easy. public access to the natural resources information for which the USFWS has trust or regulatory responsibility. Examples include Threatened and Endangered species, migratory birds, National Refuge lands, Coastal Barrier Resource Units, and the management of invasive species. One of the primary goals of the IPaC system is to provide information in a manner that assists individuals in planning their activities within the context of natural resource conservation. The IPaC system also assists people through the various regulatory consultation, permitting and approval processes administered by the USFWS, helping achieve more effective and efficient results for both the project proponents and natural resources. Through IPaC, you can get a preliminary USFWS species list in addition to links to species life history information, the USFWS Migratory Bird program, and more. You can access **IPaC** http://ecos.fws.gov/ipac

CESFO List of Threatened & Endangered Species and Critical Habitat Designations: CESFO has developed another tool (Species Map) that can be used as a quick reference to find out where the Federally-listed species





are known to occur, as well as those likely to occur, in any given municipality in Puerto Rico and island in the

U.S. Virgin islands. It identifies general areas where the species may be located. However, it does not represent the absolute distribution of the species and does not constitute a recommendation or comment issued by our agency in reference to a proposed project. This list represents the best available information regarding known or likely occurrences of Federally-listed species and is subject to change as new information becomes available. You can access this database at http://www.fws.gov/caribbean/es/PDF/Map/pdf



Be aware that Section 9 of the ESA prohibits unauthorized taking of listed species and applies to Federal and non-Federal activities. Under the Act, it is illegal for any person subject to the jurisdiction of the United States to take (includes harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect; or to attempt any of these), import or export, ship in interstate or foreign commerce in the course of commercial activity, or sell or offer for sale in interstate or foreign commerce any endangered fish or wildlife species and most threatened fish and wildlife species. It is also illegal to possess, sell, deliver, carry, transport, or ship any such wildlife that has been taken illegally. "Harm" includes any act which actually kills or injures fish or wildlife, and case law has clarified that such acts may include significant habitat modification or degradation that significantly impairs

essential behavioral patterns of fish or wildlife. For projects not authorized, funded, or carried out by a Federal agency, consultation with the Service pursuant to Section 7(a)(2) of the ESA is not required. However, no person is authorized to "take¹" any listed species without appropriate authorizations from the Service. Therefore, we provide technical assistance to individuals and agencies to assist with project planning to avoid the potential for "take," or when appropriate, to provide assistance with their application for an incidental take permit pursuant to Section 10(a)(1)(B) of the ESA.

If the project is within the distribution of the species, additional information may be needed to determine the presence of habitat. In some cases, specialized surveys may be needed to determine the presence or absence of the species in a particular area.

For additional information on fish and wildlife resources or State-listed species, we suggest contacting the Puerto Rico Department of Natural and Environmental Resources and the U.S. Virgin Islands Department of Planning and Natural Resources.

For further assistance, please feel free to contact us at (787) 851-7297 or visit our Web page at www.fws.gov/caribbean/es if you need further assistance.

For further information visit our national websites at:

http://www.fws.gov http://ecos.fws.gov







Consultations with Federal Agencies

Section 7 of the Endangered Species Act

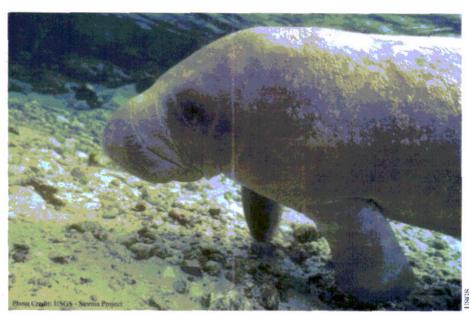
The purposes of the Endangered Species Act are to provide a means for conserving the ecosystems upon which endangered and threatened species depend and a program for the conservation of such species. The ESA directs all Federal agencies to participate in conserving these species. Specifically, section 7 (a)(1) of the ESA charges Federal agencies to aid in the conservation of listed species, and section 7 (a)(2) requires the agencies to ensure that their activities are not likely to jeopardize the continued existence of listed species or adversely modify designated critical habitats.

How does the consultation process support the recovery of species and their ecosystems?

The Endangered Species Program of the U.S. Fish and Wildlife Service uses section 7 tools in partnership with other Service programs and other Federal agencies to collaboratively solve conservation challenges, as well as create opportunities, using section 7 consultations, to recover the ecosystems of listed species. Consultations also provide ways to implement recovery tasks by addressing threats to listed species that may result from Federal agency programs and activities.

What is the consultation process that occurs under section 7(a)(2)?

The provision under section 7 that is most often associated with the Service and other Federal agencies is section 7(a)(2). It requires Federal agencies to consult with the Service to ensure that actions they fund, authorize, permit, or otherwise carry out will not jeopardize the continued existence of any listed species or adversely modify designated critical habitats. The



In response to requests for consultations from the U. S. Coast Guard with regard to manatees and sea turtles, the South Florida Office of the U. S. Fish and Wildlife Service has provided guidance about events such as firework displays, regattas, boat parades and races, and fishing tournaments.

Service issued regulations in 1986 detailing the consultation process, and we have since completed a handbook describing the process in detail. The handbook is available on our web site at http://www.fws.gov/endangered/esa-library/pdf/esa section7 handbook.pdf.

What is the Service doing to facilitate the consultation process?

Designing projects in ways that are compatible with the conservation needs of listed species and their ecosystems is among the most effective methods of ensuring a more rapid and efficient section 7 consultation process, as well as species' recovery. The Information, Planning, and Conservation System is an emerging tool for action agencies, their applicants, and other project proponents to use

during the initial phases of project development and assessment. The system will allow for more effective integration of listed resource conservation needs and the eventual streamlining of section 7(a)(2) consultation.

How does a consultation get started?

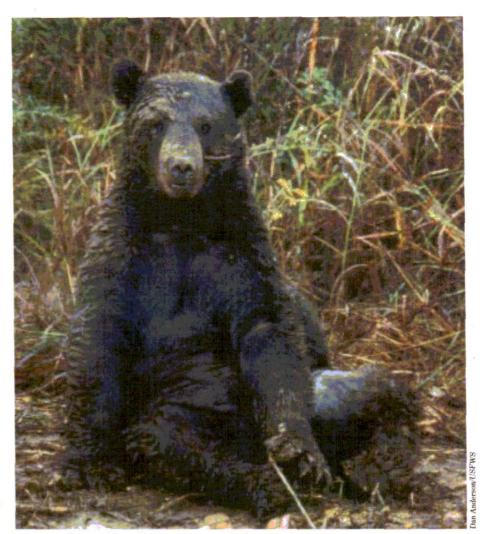
Early coordination is one of the most effective methods of (1) streamlining section 7 consultation, (2) reducing the need to make project modifications during the consultation process, and (3) improving the ability of section 7 to fulfill its role as a recovery tool. Federal agencies, applicants, and the Service engage in early coordination to develop methods of integrating proposed activities with the conservation needs of listed resources before the proposed actions are fully designed.

Before initiating an action, the Federal agency or its non-Federal permit applicant should coordinate with the Service as to the species that may be within their action area. If a listed species is present, the Federal agency must determine whether the project may affect it. If so, consultation may be required. If the action agency determines (and the Service agrees) that the project is not likely to adversely affect a listed species or designated critical habitat, and the Service concurs in writing, then the consultation (informal to this point) is concluded.

What happens if a Federal project may adversely affect a listed species?

If the Federal agency determines that a project is likely to adversely affect a listed species or designated critical habitat, the agency initiates formal consultation by providing information with regard to the nature of the anticipated effects. The ESA requires that consultation be completed within 90 days, and the regulations allow an additional 45 days for the Service to prepare a biological opinion. The analysis of whether or not the proposed action is likely to jeopardize the continued existence of the species or adversely modify designated critical habitat is contained in a biological opinion. If a jeopardy or adverse modification determination is made, the biological opinion must identify any reasonable and prudent alternatives that could allow the project to move forward.

The Service must anticipate any incidental take that may result from the proposed project and, provided that such take will not jeopardize the continued existence of the listed species, authorize that take in an incidental take statement. The latter contains clear terms and conditions designed to reduce the impact of the anticipated take to the species involved. The authorization of incidental take is contingent upon the Federal agency carrying out the terms and conditions. If the Service issues either a non-jeopardy opinion or a jeopardy opinion that contains reasonable and prudent alternatives, it may include an incidental take statement.



This Louisiana black bear was one of the largest ever captured on Tensas River National Wildlife Refuge, weighing in at over 400 pounds. The bear was trapped using a leg-hold cable snare that does not injure the animal. The biological information obtained, including weight, sex, a tooth for aging, and other measurements, is part of the Service's ongoing research efforts to aid in the recovery of this threatened subspecies. Afterwards, the bear was released on site.

What is the consultation workload?

In Fiscal Year 2010, the Service assisted Federal agencies in carrying out their responsibilities under section 7 on more than 30,000 occasions. The vast majority of the workload was technical assistance to Federal agencies and informal consultations on actions that were not likely to adversely affect listed species or their designated critical habitat. A large percentage of projects, as initially planned, would have had adverse impacts to listed species, but were dealt with through informal consultation. In these situations, the Federal agency made changes to the project design so that adverse impacts to listed species were avoided.

What type of guidance is available for other Federal agencies?

Guidance is available on our section 7 web site at http://www.fws.gov/endangered/what-we-do/consultations-overview.html. Please call us at 703-358-2171 if you have any questions, or see our Endangered Species Program Contacts at http://www.fws.gov/endangered/regions/index.html to locate a Service office in your area.

U. S. Fish and Wildlife Service Endangered Species Program 4401 N. Fairfax Drive, Room 420 Arlington, VA 22203 703-358-2171 http://www.fws.gov/endangered/

April 2011





HOUSING



Transmittal Letter

April 3, 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 Date: 2024.04.05 09:10:04 -04'00'

ROBERT TAWES Digitally signed by ROBERT TAWES Date: 2024.04.05 12:40:38 -04'00'

Acting Caribbean ES Field Supervisor

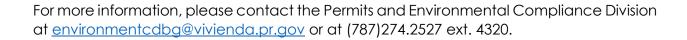
RE: USFWS Endangered Species Act Certifications City Revitalization Program March 2024

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

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

Project Number	Project Name			
PR-CRP-000005	Ponce Urban Renewal Initiatives			
PR-CRP-000340	Colisseum Luis Aymat Cardona			
PR-CRP-000492	Rompeolas Recreational and Activities Facilities			
PR-CRP-000557	Intersection Improvements Roundabout PR-693 and PR-698			
PR-CRP-000720	Revitalización y Restauración del Centro Urbano			
PR-CRP-000802/	Revitalization of Maunabo Public Plaza/			
PR-CRP-000804	Mejoras a las calles del Casco Urbano			
PR-CRP-000823	Remodelación de la Plaza Pública Manuel Jiménez Mesa			
PR-CRP-000857	Mejoras a la Calle Bosque y Calle Lic. A. Ramírez Silva			
PR-CRP-000858	Mejoras al Parque de los Próceres			
PR-CRP-000993	Rotonda PR-865 int. Ave. Campanilla, Campanilla			
PR-CRP-000979	Plaza de Monumento al Veterano			
PR-CRP-001010	Rehabilitación y Mejoras a la Plaza del Mercado			
PR-CRP-001060	Multilevel Parking Building at Mario "Quijote" Morales Complex			

USFWS Self-Certifications March 2024 Page 2 / 2



Sincerely,

Permits and Environmental Compliance Division Office of Disaster Recovery



Self-Certification

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

Endangered Species Act Certification

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

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

The Puerto Rico Department of Housing (PRDOH) certifies that the following project Mejoras a la Calle Bosque y Calle Lic. A. Ramírez Silva (PR-CRP-000857), consisting of improvements to Bosque Street and Lic. Ramirez Silva Street, including provide better lighting and safety to a high-volume road, reconstruction of sidewalks to be designed for ADA compliance, reduction to a single car lane in one way direction, pocket parking on the side of the street, lighting replacement, improved signaling, improved power/communication lines, green spaces, and reforestation activities: located along two streets from Bosque Street to Lic. A. Ramírez from coordinates 18.204804,-67.140518 to Street. Mayaquez, PR 00680: coordinates 18.203980, -67.145075, complies with:

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

Check	Project Criteria				
	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, highways, when limited to actions that do not involve cutting no vegetation or mayor earth moving; and are not located within adjacent to, drainages, wetlands, or aquatic systems. These activinclude the installation of potable water and sanitary pipelines.				
	8. Improvements to existing recreational facilities, including the installation of roofs to existing basketball courts, provided that the lighting associated to the facilities are not visible directly or indirect from the beach.				
×	9. Construction of electric underground systems in existing towns are communities, provided that the property is not a wetland area are the lighting associated to the facilities are not visible directly indirectly from the beach.				
	10. Construction of facilities on vacant properties covered with grass in urban areas, provided that the lighting associated to the facilitiare not visible directly or indirectly from the beach.				
	11. Construction of houses, buildings or acquiring lands in urban area covered by grass for relocation of low-income families and/or facilitie 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

March 26,2024

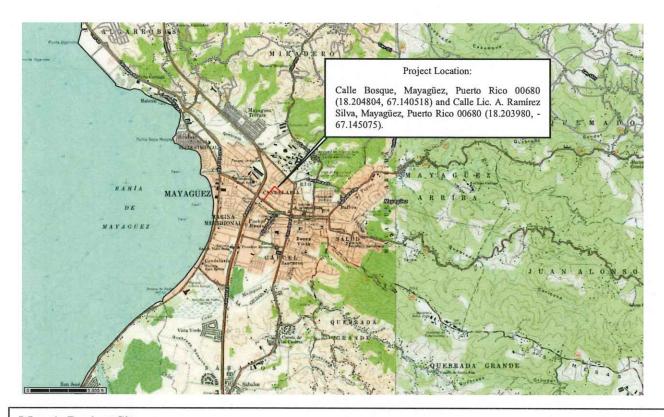
Date

Attachment 1

Location Map
Critical Habitat Map
Wetlands Map
Photos



Imagery ©2024 Google, Imagery ©2024 Airbus, CNES / Airbus, Maxar Technologies, U.S. Geological Survey, Map data ©2024 Google



Map 1: Project Site

Project Name: Mejoras a la calle Bosque y a la calle Lic. Ramírez Silva, Mayagüez Puerto Rico (PR-CRP-

000855)

Location: Calle Bosque, Mayagüez, Puerto Rico 00680 (18.204804, 67.140518) and Calle Lic. A. Ramírez

Silva, Mayagüez, Puerto Rico 00680 (18.203980, -67.145075).

Source: USDA Website:

https://websoilsurvey.nrcs.usda.gov/app/HomePage.htm?TARGET_APP=Web_Soil_Survey_application_fy

u2ttfgjle1132dprpi245c

Author: Applied Engineering Group

Final Polygon Features

| Control |

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

Esri, HERE, Garmin, USGS, NGA

Map 2: Critical Habitats

Project Name: Mejoras a la calle Bosque y a la calle Lic. Ramírez Silva, Mayagüez Puerto Rico (PR-

CRP-000855)

Location: Calle Bosque, Mayagüez, Puerto Rico 00680 (18.204804, 67.140518) and Calle Lic. A.

Ramírez

Source: US Fish and Wildlife ECOS.

Website: https://ecos.fws.gov/ecp/report/table/critical-habitat.html

Author: Applied Engineering Group



Wetland Map Mayagüez



Map 3: Wetlands Map

Project Name: Mejoras a la calle Bosque y a la calle Lic. Ramírez Silva, Mayagüez Puerto Rico (PR-CRP-000855)

Location: Calle Bosque, Mayagüez, Puerto Rico 00680 (18.204804, 67.140518) and Calle Lic. A.

Ramírez

Source: USFWS National Wetlands Inventory - Wetlands Mapper

Website: https://www.fws.gov/program/national-wetlands-inventory/wetlands-mapper

Author: Applied Engineering Group

CALLE BOSQUE – ACTUALIDAD

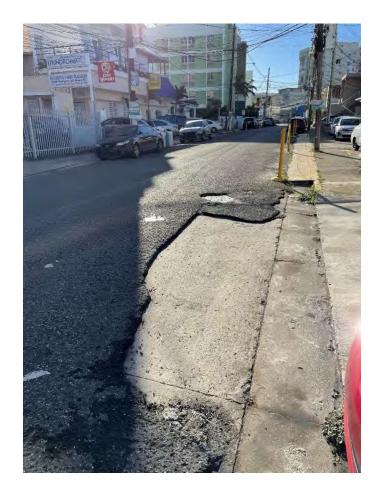
















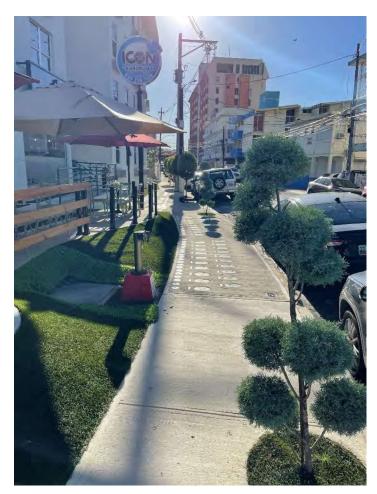






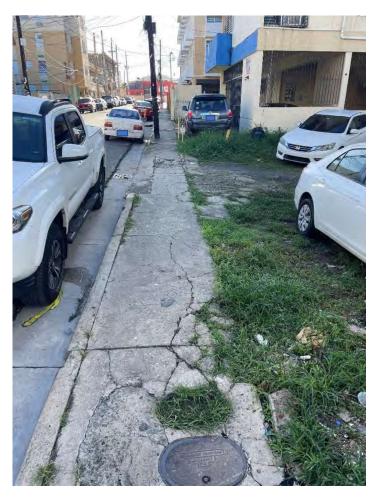


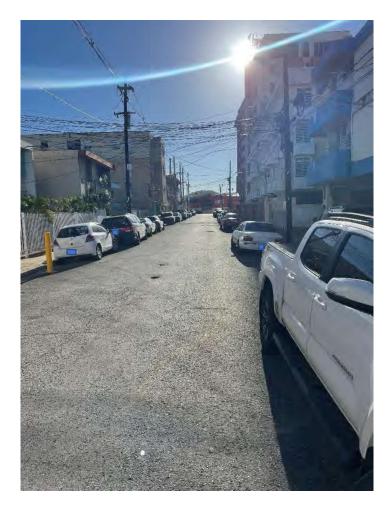








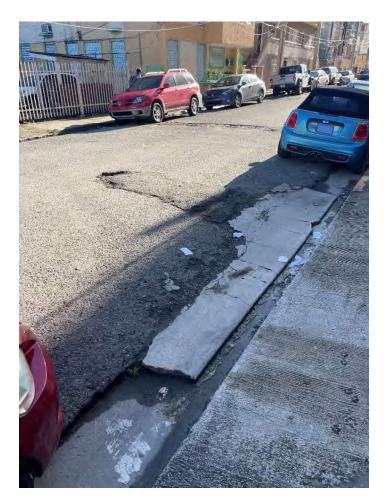




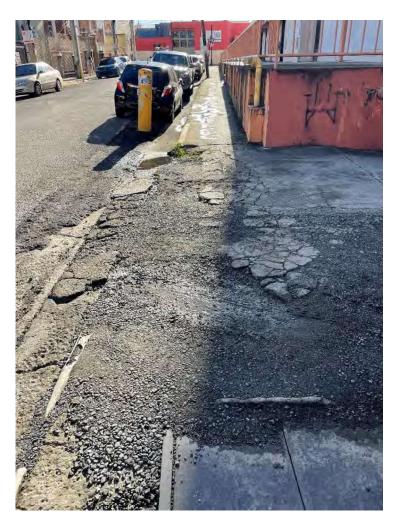




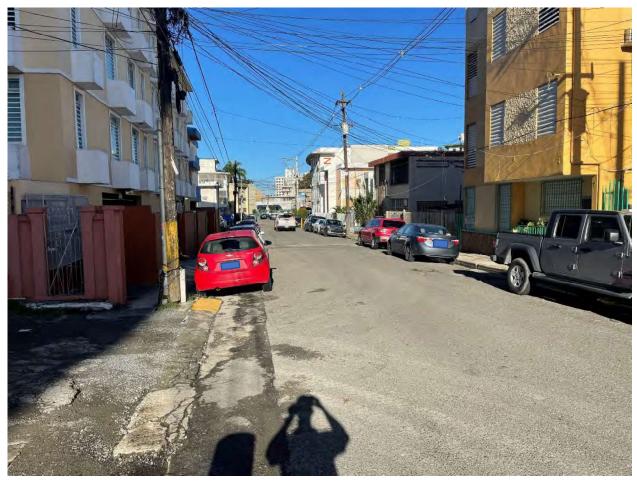


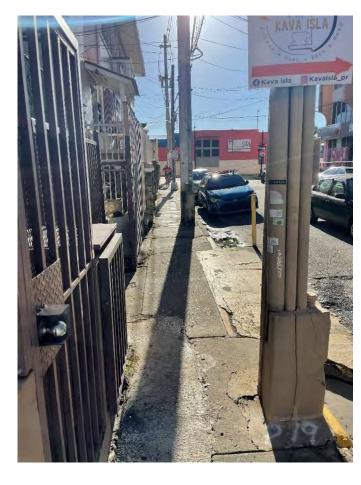




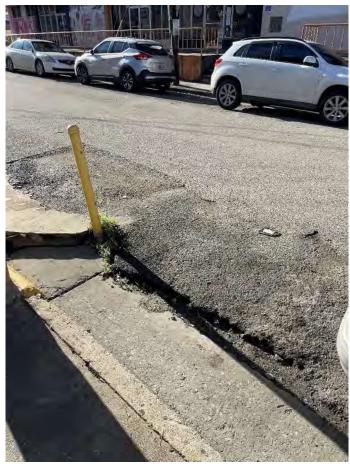




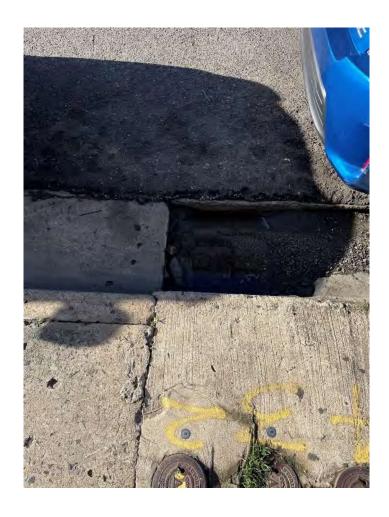










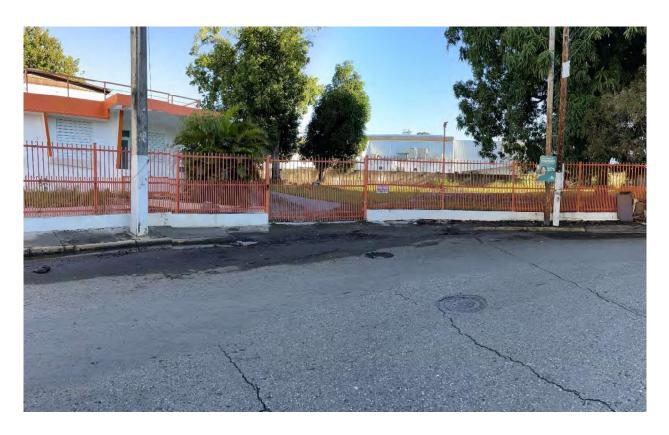
















Attachment 2

IPaC Report

IPaC Information for Planning and Consultation

U.S. Fish & Wildlife Service

IPaC resource list

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

Location

Mayagüez County, Puerto Rico



Local office

Caribbean Ecological Services Field Office

4 (787) 834-1600

(787) 851-7440

CARIBBEAN_ES@FWS.GOV

MAILING ADDRESS
Post Office Box 491

Boqueron, PR 00622-0491
PHYSICAL ADDRESS

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

Mayaguez, PR 00680

Endangered species

This resource list is for informational purposes only and does not constitute an analysis of project level impacts.

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act requires Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can **only** be obtained by requesting an official species

list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

- 1. Draw the project location and click CONTINUE.
- 2. Click DEFINE PROJECT.
- 3. Log in (if directed to do so).
- 4. Provide a name and description for your project.
- 5. Click REQUEST SPECIES LIST.

Listed species¹ and their critical habitats are managed by the <u>Ecological Services Program</u> of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries²).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact <u>NOAA Fisheries</u> for <u>species</u> <u>under their jurisdiction</u>.

- Species listed under the <u>Endangered Species Act</u> are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the <u>listing status page</u> for more information. IPaC only shows species that are regulated by USFWS (see FAQ).
- 2. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

The following species are potentially affected by activities in this location:

Mammals

NAME

West Indian Manatee Trichechus manatus Threatened

Wherever found

There is final critical habitat for this species. Your location does not overlap the critical habitat.

https://ecos.fws.gov/ecp/species/4469

Reptiles

NAME

Puerto Rican Boa Chilabothrus inornatus Endangered

Wherever found

No critical habitat has been designated for this species.

https://ecos.fws.gov/ecp/species/6628

Critical habitats

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

There are no critical habitats at this location.

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

Bald & Golden Eagles

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

Additional information can be found using the following links:

- Eagle Management https://www.fws.gov/program/eagle-management
- Measures for avoiding and minimizing impacts to birds https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds
- Nationwide conservation measures for birds

https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf

 Supplemental Information for Migratory Birds and Eagles in IPaC https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action

What does IPaC use to generate the potential presence of bald and golden eagles in my specified location?

The potential for eagle presence is derived from data provided by the <u>Avian Knowledge Network (AKN)</u>. The AKN data is based on a growing collection of <u>survey, banding, and citizen science datasets</u> and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (<u>Eagle Act</u> requirements may apply). To see a list of all birds potentially present in your project area, please visit the <u>Rapid Avian Information Locator (RAIL) Tool</u>.

What does IPaC use to generate the probability of presence graphs of bald and golden eagles in my specified location?

The Migratory Bird Resource List is comprised of USFWS <u>Birds of Conservation Concern (BCC)</u> and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the <u>Avian Knowledge Network (AKN)</u>. The AKN data is based on a growing collection of <u>survey, banding, and citizen science datasets</u> and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (<u>Eagle Act</u> requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the Rapid Avian Information Locator (RAIL) Tool.

What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to obtain a permit to avoid violating the Eagle Act should such impacts occur. Please contact your local Fish and Wildlife Service Field Office if you have questions.

Migratory birds

Certain birds are protected under the Migratory Bird Treaty Act^1 and the Bald and Golden Eagle Protection Act^2 .

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described below.

- 1. The Migratory Birds Treaty Act of 1918.
- 2. The Bald and Golden Eagle Protection Act of 1940.

Additional information can be found using the following links:

- · Eagle Management https://www.fws.gov/program/eagle-management
- Measures for avoiding and minimizing impacts to birds
 https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds
- Nationwide conservation measures for birds https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf
- Supplemental Information for Migratory Birds and Eagles in IPaC https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action

The data in this location indicates there are no migratory birds of conservation concern expected to occur in this area.

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

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

Nationwide Conservation Measures describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these

measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. Additional measures or permits may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the list of migratory birds that potentially occur in my specified location?

The Migratory Bird Resource List is comprised of USFWS <u>Birds of Conservation Concern (BCC)</u> and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the <u>Avian Knowledge Network (AKN)</u>. The AKN data is based on a growing collection of <u>survey, banding, and citizen science datasets</u> and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (<u>Eagle Act</u> requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the Rapid Avian Information Locator (RAIL) Tool.

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the <u>Avian Knowledge Network (AKN)</u>. This data is derived from a growing collection of <u>survey, banding, and citizen science datasets</u>.

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering or migrating in my area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may query your location using the RAIL Tool and look at the range maps provided for birds in your area at the bottom of the profiles provided for each bird in your results. If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

- 1. "BCC Rangewide" birds are <u>Birds of Conservation Concern</u> (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
- 2. "BCC BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
- 3. "Non-BCC Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the Eagle Act requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the Northeast Ocean Data Portal. The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the <u>Diving Bird Study</u> and the <u>nanotag studies</u> or contact <u>Caleb Spiegel</u> or <u>Pam Loring</u>.

What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to obtain a permit to avoid violating the Eagle Act should such impacts occur.

Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be

breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

Marine mammals

Marine mammals are protected under the Marine Mammal Protection Act. Some are also protected under the Endangered Species Act¹ and the Convention on International Trade in Endangered Species of Wild Fauna and Flora².

The responsibilities for the protection, conservation, and management of marine mammals are shared by the U.S. Fish and Wildlife Service [responsible for otters, walruses, polar bears, manatees, and dugongs] and NOAA Fisheries³ [responsible for seals, sea lions, whales, dolphins, and porpoises]. Marine mammals under the responsibility of NOAA Fisheries are **not** shown on this list; for additional information on those species please visit the Marine Mammals page of the NOAA Fisheries website.

The Marine Mammal Protection Act prohibits the take (to harass, hunt, capture, kill, or attempt to harass, hunt, capture or kill) of marine mammals and further coordination may be necessary for project evaluation. Please contact the U.S. Fish and Wildlife Service Field Office shown.

- 1. The Endangered Species Act (ESA) of 1973.
- 2. The <u>Convention on International Trade in Endangered Species of Wild Fauna and Flora</u> (CITES) is a treaty to ensure that international trade in plants and animals does not threaten their survival in the wild.
- 3. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

The following marine mammals under the responsibility of the U.S. Fish and Wildlife Service are potentially affected by activities in this location:

NAME

West Indian Manatee Trichechus manatus https://ecos.fws.gov/ecp/species/4469

Facilities

National Wildlife Refuge lands

Any activity proposed on lands managed by the <u>National Wildlife Refuge</u> system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

There are no refuge lands at this location.

Fish hatcheries

There are no fish hatcheries at this location.

Wetlands in the National Wetlands Inventory (NWI)

Impacts to NWI wetlands and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local <u>U.S. Army Corps of Engineers District</u>.

This location did not intersect any wetlands mapped by NWI.

NOTE: This initial screening does **not** replace an on-site delineation to determine whether wetlands occur. Additional information on the NWI data is provided below.

Data limitations

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

Data exclusions

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tuberficid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

Data precautions

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

Explosives and Flammable Hazards



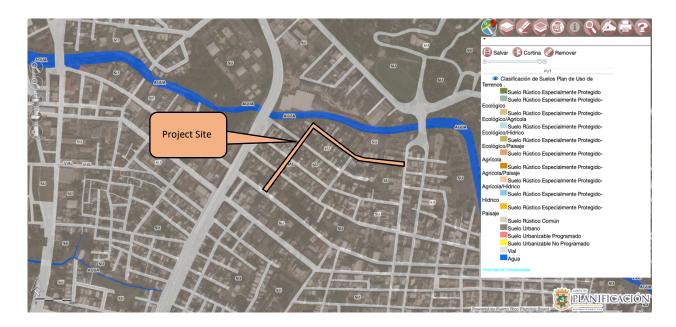
Attachment 9: Explosive and Flammables Hazard Map

Project Name: Improvements to Bosque and Lic. A Ramírez Silva Streets, Municipality of Mayagüez Location: Bosque Street (Lat:18.204804, Long: -67.140518) and Ramírez Silva Street (Lat: 18.203980,

Long: -67.145075) Source: USFWS

Website: https://ecos.fws.gov/ecp/report/table/critical-habitat.html

Prepared by: Applied Engineering Group



Attachment 10A: Puerto Rico Planning Board's – Terrain Use Map (Plan de Uso de Terreno)

Project Name: Improvements to Bosque and Lic. A Ramírez Silva Streets, Municipality of Mayagüez Location: Bosque Street (Lat:18.204804, Long: -67.140518) and Ramírez Silva Street (Lat: 18.203980,

Long: -67.145075) Source: MIPR

Website: https://gis.jp.pr.gov/mipr/
Prepared by: Applied Engineering Group



		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, 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 floode during the growing season Prime farmland if irrigated Prime farmland if drained and either protected from flooding or not frequently floode during the growing season Prime farmland if irrigated and drained Prime farmland if irrigated and drained Prime farmland if irrigated and either protected from flooding or not frequently floode during the growing season

Farmland Classification—Mayaguez Area, Puerto Rico Western Part

,e.,e	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	~	Farmland of statewide importance, if irrigated and reclaimed of excess salts and sodium	~~	Farmland of unique importance Not rated or not available		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	~	flooded during the growing season 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	Soil Rat	ting Points Not prime farmland All areas are prime farmland	•	Prime farmland if irrigated and the product of I (soil erodibility) x C (climate factor) does not exceed 60
2 2 2 2 2		~ ~		<pre></pre>					
							flooded during the growing season		

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

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

- Farmland of unique importance
- Not rated or not available

Water Features

Streams and Canals

Transportation

→ Rails

Interstate Highways

US Routes

Major Roads

Local Roads

Background

04

Aerial Photography

The soil surveys that comprise your AOI were mapped at 1:20.000.

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: Mayaguez Area, Puerto Rico Western Part Survey Area Data: Version 19, Sep 13, 2023

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

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

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

Farmland Classification

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
Lc	Leveled clayey land	Not prime farmland	0.1	5.4%
Lf	Leveled land, frequently flooded	Not prime farmland	1.6	94.6%
Totals for Area of Intere	est	1.6	100.0%	

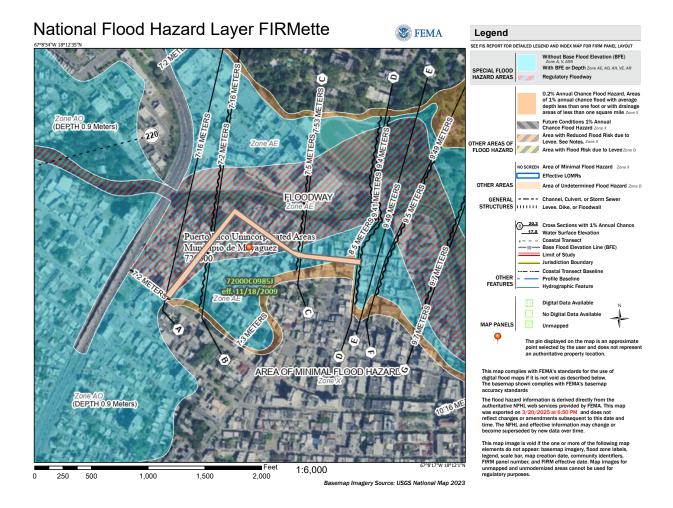
Description

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

Rating Options

Aggregation Method: No Aggregation Necessary

Tie-break Rule: Lower



Attachment 11A: Floodplain Management FIRM

Project Name: Improvements to Bosque and Lic. A Ramírez Silva Streets, Municipality of Mayagüez Location: Bosque Street (Lat:18.204804, Long: -67.140518) and Ramírez Silva Street (Lat: 18.203980,

Long: -67.145075) Source: FEMA

Website: https://msc.fema.gov/portal/search Prepared by: Applied Engineering Group

Utb Eastment William Coop Pages Character Character

Mapa Niveles de Inundación Base Recomendados

First 1 Day 1 and 50 February 1 F

Attachment 11B: Floodplain Management ABFE

Project Name: Improvements to Bosque and Lic. A Ramírez Silva Streets, Municipality of Mayagüez Location: Bosque Street (Lat:18.204804, Long: -67.140518) and Ramírez Silva Street (Lat: 18.203980,

Long: -67.145075)

Source: FEMA Puerto Rico Advisory Base Flood Elevations (ABFE's)

Website: https://gis-r2-fema.hub.arcgis.com Prepared by: Applied Engineering Group



EXECUTIVE ORDERS 11988, AS AMENDED BY EXECUTIVE ORDER 13690 & & 11990 – FLOODPLAIN MANAGEMENT & PROTECTION OF WETLANDS - EIGHT-STEP PROCESS U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT COMMUNITY DEVELOPMENT BLOCK GRANT – DISASTER RELIEF (CDBG-DR) PROGRAM

FLOODPLAIN MANAGEMENT 5-STEP DECISION-MAKING PROCESS

Project: "Mejoras a la Calle Bosque y Calle Lic. A. Ramírez Silva", Municipality of Mayagüez, Puerto Rico

Project No. PR-CRP-000857

Decision Process for Executive Order 11988, as amended by Executive Order 13690 and, Executive Order 11990 as Provided by 24 CFR §55.20.

Step 1: Determine whether the action is in a FFRMS floodplain or a wetland.

The proposed project Mejoras a la Calle Bosque y Calle Lic. A. Ramírez Silva, PR-CRP-000857, is directed to remove of material and architectural barriers that restrict the mobility of and accessibility to elderly and persons with disabilities, to increase the well-being and safety of pedestrians, specifically students and elderly people in the floodplain and wetland. Project improvements include throughout the streets include the rehabilitation of sidewalks, street curbs and ramps in compliance with the Americans with Disabilities Act (ADA) guidelines, reduction to a single car lane in one-way pocket parking on the side of the street, lighting replacement, improved signaling, infrastructure for underground power/communication lines, green spaces, and reforestation activities. The proposed project is located along two streets from Bosques St. to Lic. Ramírez Silva, Mayagüez, PR, 00680; from 18.203980, -67.145075 to coordinates 18.204804, -67.140518. There won't be new construction on previously undisturbed areas.

Along its path the proposed activity is located in a Federal Flood Risk Management Standard (FFRMS) floodplain and adjacent to a riverine wetland. The extent of the FFRMS floodplain was determined using the 0.2% annual chance (500-year floodplain) approach. The proposed activity with dimensions of 1.686 acres is located in various types of flood zones; 1.66 acres within the FFRMS floodplain, and 0.51 acres outside the FFRMS floodplain, as shown in FEMA's Advisory Baseline Flood Elevations Map, revised 12/11/2018, https://gis-r2-fema.hub.arcgis.com/apps/31dfa15671944086b54b55bfc03344d7/explore. In addition, the project is adjacent to a riverine wetland as shown in the NWI

Wetland Mapper at https://fwsprimary.wim.usgs.gov/wetlands/apps/wetlands-mapper/. Refer to Attachment A for Location Map, ABFE Map and Wetland Map.

This analysis will consider impacts to the floodplain and wetland along with concerns for loss of life or property; as applicable.

Given the new for rule 55, effective May 23rd, 2024, this project would qualify for a 5-Step process by section 55.14 (e) "HUD's or the recipient's actions under any HUD program involving the repair, rehabilitation, or replacement of existing nonstructural improvements including streets, curbs, and gutters, where any increase of the total impervious surface area of the facility is de minimis. This provision does not include critical actions, levee systems, chemical storage facilities (including any tanks), wastewater facilities, or sewer lagoons."

The PRDOH Permits and Environmental Compliance Division, on a Memorandum dated May 21, 2024, indicated that the project complied with the following exception for activities in the floodway: 55.12(i): Special projects directed to the removal of material and architectural barriers that restrict the mobility of and accessibility to elderly and persons with disabilities. The Memorandum is included in Attachment B. The required Accessibility Assessment Report is included in Attachment C.

Step 2: Identify Potential Direct and Indirect Impacts Associated with Floodplain and Wetland Development.

The proposed action is according to zoning and will not change the present use of the area. No new occupancy or modification of the FFRMS floodplain and wetland area will take place since this project is situated in an existing developed area, actually in use, and constitutes the actual urban area of the municipality of Mayagüez. The project at the proposed site will not negatively impact the FFRMS floodplain and wetland and will not add additional impact on the actual runoff water behavior during weather events. On the contrary, the proposed works would not only generate a positive impact to the actual floodplain and wetland in benefit of the people's life, but also would help to protect the financial investment of the contiguous business that actually serves the community. The proposed project will eliminate architectural barriers in compliance with ADA guidelines to increase the well-being and safety of pedestrians, increase the wellbeing and safety of community residents and visitors, provide safer alternatives to low- and moderate-income communities surrounding the area and visitors, mitigate and minimize adverse impacts on human health, public property, and floodplain and wetland functions and values, improve existing site's conditions, and infrastructure, help to prevent further deterioration of the site and to improve traffic safety so that it can continue to be used by citizens of Mayagüez and their visitors.

The proposed improvements will not have an effect on agricultural lands. No historical environmental disparities will be increased due to the proposed activity. The proposed activity does not affect or contribute to natural and beneficial functions of the FFRMS floodplain and the adjacent wetland such as, storage and discharge of flood waters, discharge and recharge of aquifers, erosion control, water quality control or flora and fauna habitat. The activity will not affect educational, scientific, historic, and cultural values of the FFRMS floodplain & the adjacent wetland. The proposed use is in harmony with the surrounding developments in the area.

Step 3: Mitigate Adverse Impacts

The highest priority of this review is to prevent the loss of life. No loss of life could be generated as part of the proposed actions. There will be no impact to the FFRMS floodplain and adjacent wetland area since this activity takes place of an existing developed area and there is no increase of impermeable surfaces due to the construction. Design considered the potential direct and indirect support of the FFRMS floodplain and adjacent wetland development that could result from the proposed action, including impacts related to future climate-related flood levels, sea level rise, and the related increased value of beneficial floodplain and adjacent wetland functions. The design considers provisions for draining. Impact to the FFRMS floodplain and wetland will also be limited to construction activities occurring within the previously developed site. A stormwater pollution prevention plan (SWPPP) would be prepared, and its Best Management Practices (BMPs) would be implemented to avoid surface runoff, ponding, and sedimentation of receiving waterways during construction. Construction debris will be collated and disposed at a certified dump site or other authorized facility to manage wastes.

Step 4: Reevaluate the Alternatives.

Although the site is in a FFRMS floodplain and adjacent to a wetland, the project has been adapted to minimize floodplain and wetland impact. No new occupancy or modification of the floodplain and wetland area will take place since this project consists of an existing developed area that is actually in use and that constitutes the actual urban area of the municipality of Mayagüez. The proposed improvements will provide longer useful life of the facilities so that it can continue to be used by citizens of Mayagüez and their visitors. The People of Puerto Rico and the Municipality of Mayagüez are the owners of the proposed project site. No additional cost due to land acquisition will be incurred nor will ownership issues need to be solved. No historical environmental disparities will be increased due to the proposed activity.

The proposed project will:

- 1. Eliminate architectural barriers to increase the well-being and safety of pedestrians, particularly students and elderly people.
- 2. Have a positive impact on neighboring properties, as well as Mayagüez's commercial core.
- 3. Increase the well-being and safety of community residents and visitors.
- 4. Provide safer alternatives to low- and moderate-income communities and surrounding the area.
- 5. Mitigate and minimize impacts on human health, public property, and FFRMS floodplain and wetland values.
- 6. Improve existing site's conditions, and infrastructure.
- 7. Help to prevent further deterioration of the site and to improve traffic safety.

If no action is taken, the proposed improvements will not be implemented, and the facilities will not be enhanced. The proposed use is in harmony with the surrounding developments in the area.

Step 5: Implement Proposal with Appropriate Mitigation.

The municipality of Mayagüez will assure that this plan, as described above, is executed and necessary language will be included in all agreements with participating parties. The municipality of Mayagüez will also take an active role in monitoring the construction process to ensure no unnecessary impacts occur no unnecessary risks are taken and ensure that mitigation measures are fully implemented in the area.

Attachment A Maps

Location Map

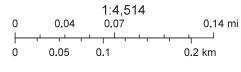


Legend:

Project Site



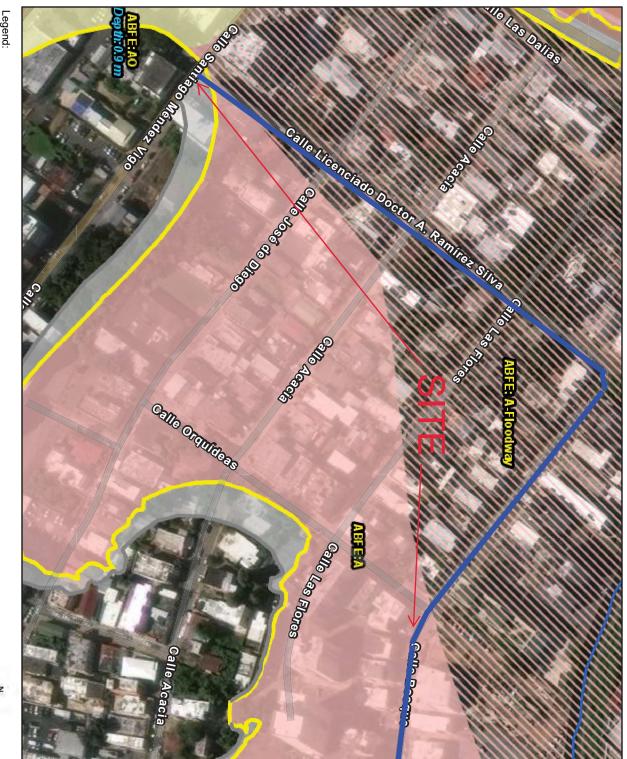
Maxar



PR ABFE Map

PR-CRP-000857 Mejoras a la Calle Bos Bosque and Ramirez Silva Stro Coordinates 18.204045, -







Flood Hazard Extent Limit of Moderate Wave Action (LiMWA) 0.2% Annual Chance Flood 1% Annual Chance Flood

⊳ AE AO

Flood Hazard Area (zoom in to make visible) Coastal A Zone É

0.2% Annual Chance Flood Zone A-Floodway

AE-Floodway

Coastal A Zone and Floodway Streamline (zoom in to make visible)

FEMA, Source: Esri, N Community, Esri Comm

U.S. Fish and Wildlife Service

National Wetlands Inventory

PR-CRP-000857 Mejoras a la Calle Bosque y Calle Lic. A. Ramírez Silva Bosque and Ramirez Silva Streets of Mayaguez, Puerto Rico 00680 Coordinates 18.204045, -67.145094 to 18.205985, -67.143520



Legend:

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond



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.

February 23, 2024

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

Project Site

Attachment B

PRDOH Permits and Environmental Compliance Division Memorandum

GOVERNMENT OF PUERTO RICO DEPARTMENT OF HOUSING

MFMORANDUM

DATE: May 21, 2024

SENDER: PRDOH Permits and Environmental Compliance Division

RECEIVER: City Revitalization Program

SUBJECT: Floodway Resolution - Eligible

CASE ID: PR-CRP-000857

PROJECT: Meioras a la Calle Bosque y Calle Lic. A Ramírez Silva (Mayagüez)

Resolution

Eligible under 55.12(c)(10): Special projects directed to the removal of material and architectural barriers that restrict the mobility of and accessibility to elderly and persons with disabilities.

Project Description

The municipality of Mayagüez is proposing to make improvements to the Bosque Street and Lic. A Ramírez Silva Street, including the reconstruction and widening of sidewalks and improvements necessary for compliance with the Americans with Disabilities Act (ADA), reconstruction of streets, underground relocation of power and communication lines, replacing lighting, installation of street signage, the implementation of green initiatives and/or reforestation activities (new landscaping, construction of planters to collect rainwater, and planting ornamental trees), replacing existing pavement on sidewalks and streets with pavements permeable to reduce runoff, supporting the power lines of both streets (Bosque Street and Lic. A. Ramírez Silva Street), and improvement of the storm sewage system, if necessary. The approximate length of the project will be 630 linear meters.

Activities in the Floodway

The extent of the project in the floodway includes a series of narrow two-lane streets and associated infrastructure within a traditional urban center. In this area, the existing infrastructure includes light poles, power and communication lines, fire hydrants, and narrow sidewalks – all of which hinders pedestrian mobility; moreover, accessibility of the elderly and persons with disabilities. The purpose of the proposed project is the removal of architectural barriers by widening the sidewalks along this major thoroughfare of the traditional urban center.

In Puerto Rico it is common for drivers to use wider sidewalks for parking, especially in the urban centers where parking space is limited. Thus, strictly widening the sidewalks would likely achieve the opposite result of the intended project purpose and create dangerous conditions for pedestrians, the elderly and mobility impaired persons alike. Therefore, in order to safely and effectively accommodate an ADA compliant/accessible sidewalk design within the confines of the existing space, power and communication lines will be relocated below ground, the roadway will be reduced to a single lane (from the intersection of Bosque/Orquídea Street to the intersection of Lic. A. Ramírez Silva/Las

GOVERNMENT OF PUERTO RICO DEPARTMENT OF HOUSING

MEMORANDUM

Flores Street), traveling in only one direction, pocket parking will be added on the side of the street, as space allows, and drainage improvements will be incorporated as necessary. Planting strips, bollards and benches will be incorporated to serve as a buffer between on-street vehicles and pedestrians, and to prevent vehicles from parking on the new, wider sidewalks. Additionally, sidewalk lighting, ADA compliant/accessible crossings, and signage will be incorporated to ensure pedestrian safety. As a result of the extensive work required to accomplish the proposed design, it will also be necessary to resurface the full length of the associated streets.

Supplemental Guidance

Include within the 8-Step Decision Making Process, an Accessibility Assessment Report based on the American with Disabilities Act (ADA) standards prepared by a qualified professional and a detailed explanation of the current state of all aspects and parts of the streets that will be impacted because they are not ADA compliant/accessible and do not comply with current accessibility standards. There should be a direct relationship between the scope of project activities and the design elements described as necessary in accomplishing the intended purpose of the proposed project. All documentation should identify the project as being within the floodway and reference the applicable exception which makes possible the use of HUD CDBG-DR funds. Lastly, the 8-Step Decision Making Process should identify and evaluate measures to mitigate, avoid and minimize adverse direct and indirect impacts to the floodplain before, during and after implementation or the proposed project, to the greatest extent practicable.

Attachment C Accessibility Assessment Report

MANAGERS, ARCHITECTS, ENGINEERS AND PLANNERS



10 St. Montecarlo Ave. #866 Rio Piedras, PR 00924-5818 P.O. Box 361298 San Juan, Puerto Rico 00936-1298

COMUNICADO 052.2

Proyecto: PR-CRP-000857 Mejoras Calle Bosque y Calle Lic. Ramírez Silva,

Mayagüez, P.R.

Número AEG: AEP2022-MYA-2165

Asunto: Informe de accesibilidad revisado

Fecha: 18 de diciembre de 2024

Dirigido a: Dalbert Rivera Irizarry - Administrative Service Project Manager, YAMA

Consulting Services, Inc. (YAMA)

De: Ing. Vilma I. Pereira Figueroa, P.E. - Applied Engineering Group, PSC

Ing. José De La Rosa – Applied Engineering Group, PSC

Cc: Ing. José M. Acosta Ojeda - Applied Engineering Group, PSC

Ing. Jennifer Aguilar - Applied Engineering Group, PSC

Javier O. Román Ruiz – Gerente De Vivienda Municipal y Programas

Federales & POC, Municipio de Mayagüez (MdM)

Yamil Moreno Rodríguez, Project Manager – Municipio de Mayagüez,

(YAMA)

Jayleen Morales Perdomo - Administrative Assistant (YAMA) Sheynalyn Lopez Martínez - Compliance Officer (MdM) Sonia Cruhigger - Administrative Assistant (YAMA)

Saludos Cordiales,

Por este medio se incluye el informe de accesibilidad revisado, para su revisión y acción correspondiente.

Cualquier duda o pregunta estamos a su disposición.

Atentamente,

José De La Rosa Reyes

Ing. Vilma I. Pereira Figueroa, PE 17166

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EXPLANATORY MEMORANDUM – ACCESSIBILITY REPORT

Proyecto : PR-CRP-000857 Mejoras Calle Bosque y Calle Lic.

Ramírez Silva, Mayagüez, P.R.

Fecha : 18 de diciembre de 2024

The proposed project is located in a high-density area with a significant number of multiresidential buildings and commercial activity. Both streets serve as key access routes for residents and visitors to reach residential units and businesses. Additionally, the project area provides a vital connection between downtown Mayagüez and state highways PR-2 and PR-2R.

Given Puerto Rico's geographic location, the region experiences an active hurricane season each year, with a high risk of direct impact. To mitigate damage from future events and natural disasters, the project aims to enhance the resiliency of the lighting system and stormwater management infrastructure.

Moreover, the project will improve safety for both vehicle and pedestrian traffic while promoting inclusivity by addressing the current lack of accessible features. It will create a safer, more accessible space for individuals with mobility impairments, fostering increased social, commercial, and residential activity to meet the growing demand for services. By providing an optimal balance of pedestrian and self-mobility options, this project seeks to connect communities and promote more sustainable and accessible mobility throughout the area.

The implementation of this project is essential to address several accessibility issues on both streets caused by existing architectural barriers. Key problems along these streets include:

- 1. **Physical Barriers**: There are steps without ramps, a lack of handrails, and steep slopes, all of which impede access for individuals with disabilities.
- 2. **Non-compliant Ramps**: One of the existing ramps does not meet ADA standards, making it inaccessible to those who rely on mobility aids.
- 3. **Visual Impairments**: The area lacks adequate signage, braille labels, and proper lighting, which creates challenges for individuals with visual impairments.
- 4. **Mobility Challenges**: Uneven surfaces and cramped spaces make movement difficult for individuals with mobility challenges, further limiting accessibility.

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By addressing these issues, the project will improve the accessibility, safety, and inclusivity of the streets for all users.

For the proposed project PR-CRP-000857, the relevant sections of the **2010 ADA Standards for Accessible Design (2010 ADAAG)** include:

- 1. **Section 406 Ramps**: Requires ramps to have a maximum slope of 1:12, a minimum width of 36 inches, and landings at the top and bottom for accessibility.
- 2. **Section 403 Pedestrian Routes**: Mandates pedestrian routes be at least 36 inches wide and free from obstacles, ensuring safe and accessible passage for all users.
- 3. **Section 302 Floor and Ground Surfaces**: Requires sidewalks and pedestrian paths to be stable, firm, and slip-resistant.
- 4. **Section 703 Signage**: Ensures that signage is legible and accessible to people with visual impairments, meeting criteria for contrast, size, and placement.
- 5. **Section 208 Accessible Routes**: Ensures that accessible routes are continuous and free of obstructions to allow safe travel for people with disabilities.

A long both streets, we found the following issues that require improvements inside the floodway zone.

Issue	Quantity	Dimensions	ADA Standard	Corrective Measure
No ramps between cross streets	5	N/A	Section 406	Construction of Ramps that following ADA standard
Noncompliance ramps	1	4' x 3' x 6" (slope > 8.33%)	Section 406	Reconstruct Ramp accordingly to ADA standards
Sidewalks with adverse conditions	3 trails	500 LFT	Section 302 and Section 403	Reconstruct Sidewalks accordingly
Elements that impact pedestrian routes. (Poles)	7	N/A	Section 208	Electrical and telecommunication poles will be removed, and the lines will be underground.
Missing signage	N/A	N/A	Section 703	Installation of adequate signage.

[•] Phone1: (787)-771-5071 • Phone2: (787)-771-5069 • Phone3: (787) 771-5070 • Fax: (787) 771-5070 •

Doc. Num.: AEP2022MYA2165_COM052.2

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Photos showing issues



Poles that generate inaccessible routes.
Ramp not in compliance.
Lic. Ramírez Street.



There are no crosswalks between sidewalks. Junction between Calle de Diego and Calle Silva Ramírez.



There are no crosswalks between sidewalks. Intersection between Calle de Diego and Calle Silva Ramírez.



Poles that interfere with the accessible route. Silva Ramírez Street and crosses Las Acacias Street

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Condition of sidewalks. It also does not have accessible pedestrian crossings.

Intersection between Acacias Street and Ramirez Silva Street



It does not have accessible crosswalks.

Intersection between Acacias Street and Ramirez
Silva Street



Multiple layers of asphalt create a channel between sidewalks and streets. Present in portion of Ramírez Silva Street.



Condition of sidewalks. It also does not have accessible pedestrian crossings. Intersection between Las Flores Street and Ramírez Silva Street.

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Poles that interfere with the accessible route. Ramirez Silva Street and Bosques Street



Poles that interfere with the accessible route. Silva Ramírez Street and Bosques Street.



Condition of sidewalks. It also does not have accessible pedestrian crossings. Junction between Orquidea Street and Bosques Street.



Condition of sidewalks. It also does not have accessible pedestrian crossings.

Intersection between De Diego Street and Ramirez Silva Street

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It also does not have accessible pedestrian crossings. Intersection between Orquidea Street and Bosques Street.

Condition of sidewalks. Present on Bosques Street.



Multiple layers of asphalt create a channel between sidewalks and streets. Present in portion of Ramírez Silva Street.



Condition of sidewalks. Present on Bosques Street.

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Only Crosswalk present a long both streets.

In summary, the planned improvements in this area aim to enhance accessibility for elderly individuals and people with disabilities, addressing the current lack of crosswalks and the inconvenience caused by the open channels between the sidewalk and the asphalt. Importantly, these upgrades will not interfere with the floodway, and the design improves its geometry without raising existing elevations. Although a portion of the project falls within the floodplain, the enhancements to accessibility qualify the project for an exemption from the usual floodplain management regulations, as outlined in 24 CFR 55.12(c). This exemption allows for the necessary improvements to be made while ensuring compliance with federal guidelines.





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As- built drawings: Area with multiple layers of asphalt creating barriers for people with diverse mobility. No pedestrian crosses and no accessibility ramps 1 EXISTING CONDITIONS SURVEY AND TOPOGRAPHIC No pedestrian Uneven Sidewalks crosses and no ADA ramps Only Pedestrian Cross EXISTING CONDITIONS SURVEY AND TOPOGRAPHIC AS-BUILT PLAN EXST. COND. EX-1.02

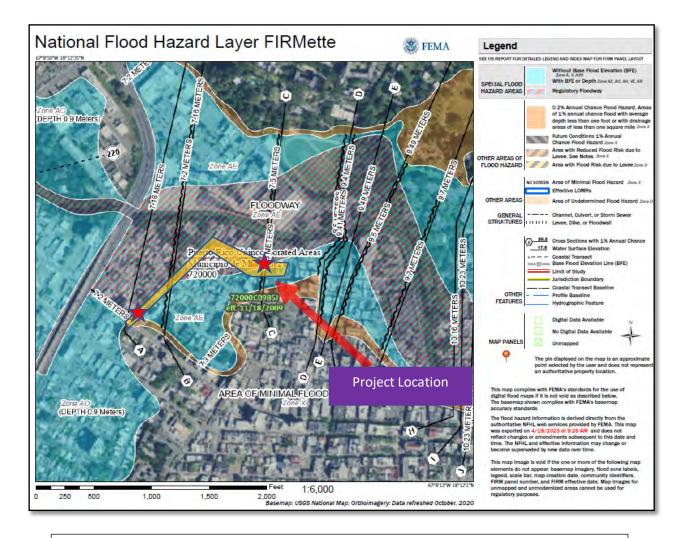
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Title: Site FEMA Flood Insurance Map

Project: Mejoras en la calle Bosque y la calle Lic A. Ramírez Silva.

Source: FEMA

Website: https://www.fema.gov/flood-maps/national-flood-hazard-layer

Author: Applied Engineering Group, PSC

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

Tuesday, April 8, 2025

Lauren B Poche

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

SHPO-CF-09-25-24-05 PR-CRP-000857 (Mayagüez), Mejoras a la Calle Bosque y Calle Lic. A. Ramírez Silva

Dear Ms. Poche,

We have reviewed the archaeological monitoring plan, dated January and revised February 27, 2025, prepared for the above referenced project. The plan is deemed acceptable.

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

Sincerely,

Carlos A. Rubio Cancela

State Historic Preservation Officer

CARC/GMO/ MB





Arch. Carlos A. Rubio Cancela

Executive Director Puerto Rico State Historic Preservation Office Cuartel de Ballajá, Third Floor San Juan, Puerto Rico 00901

Re: Authorization to Submit Documents for Consultation

Dear Arch. Rubio Cancela,

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

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

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

Cordially,

Aldo A. Rivera Vázquez, PE

Director

Division of Environmental Permitting and Compliance

Office of Disaster Recovery



April 3, 2025

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

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

Re: SHPO-CF-09-25-24-05 - PR-CRP-000857, - Mejoras a la Calle Bosque y Calle Lic. A. Ramírez Silva, Mayagüez, Puerto Rico, Mayagüez, Puerto Rico - Archaeology Monitoring Work Plan Submission

Dear Architect Rubio Cancela,

On behalf of the Puerto Rico Department of Housing (PRDOH), we thank you for your letter dated October 6, 2024, in response to the submission of documentation for PR-CRP-000857, Mejoras a la Calle Bosque y Calle Lic. A. Ramírez Silva project. The letter stated your office had determined your records supported the finding of no adverse effect for the proposed undertaking, pursuant to the following conditions as proposed by PRDOH: Archaeological monitoring should be conducted during all ground-disturbing activities, and the preparation and submission of an archaeological monitoring work plan for review and concurrence.

As such, we are submitting the requested Archaeological Monitoring Plan prepared by Archaeologist Rosa A. Martínez Montero. We are requesting your review of the prepared plan and concurrence that the implementation of the plan is appropriate for the undertaking.



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

Kindest regards,

Lauren Bair Poche. M.A.

Architectural Historian, EHP Senior Manager LBP/KPS

Attachments

PUERTO RICO DEPARTMENT OF HOUSING - CDBG-DR PE CITY REVITALIZATION PROGRAM (CRP) ARCHEOLOGICAL MONITORING PLAN	ROGRAM			
SUBRECIPIENT: MUNICIPALITY OF MAYAGUEZ, PUERTO RICO	PROJECT ID: PR-CRP-000857			
PROJECT NAME:	SHPO ID:			
Mejoras a calle Bosque y calle Lcdo. A. Ramírez Silva	SHPO-CF-09-25-24-05			
LOCATION: Bosque and Ramirez Silva Streets of Mayaguez, Puerto Rico				
COORDINATES: START POINT (LCDO. A. RAMIREZ SILVA ST.): LAT:	TPID (CADASTER):			
18.204045, Lon: -67.145094. Intersection, (Corner of A.	(Cadaster Number): 233-077-593-09			
RAMIREZ AND BOSQUE ST): LAT: 18.205985, LON: -67.143520.				
ENDPOINT (BOSQUE ST.): LAT: 18.204805, LON: -67.140558.				

TYPE OF ACTIVITY: X SUBSTANTIAL REPAIR (RECONSTRUCTION) D NEW CONSTRUCTION	CONSTRUCTION DATE: (AH EST.): @1930-40 PROPERTY AREA (SIZE): 1.686 Acres
QUALIFIED ARCHEOLOGIST (NAME):	MONTH/YEAR PREPARED:
Rosa A. Martínez Montero	January 2025/Rev. February 27, 2025

Project: Mejoras a calle Bosque y calle Lcdo. A. Ramírez Silva



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

PRDOH CDBG-DR Program/ CRP Program
Project ID: PR-CRP-000857

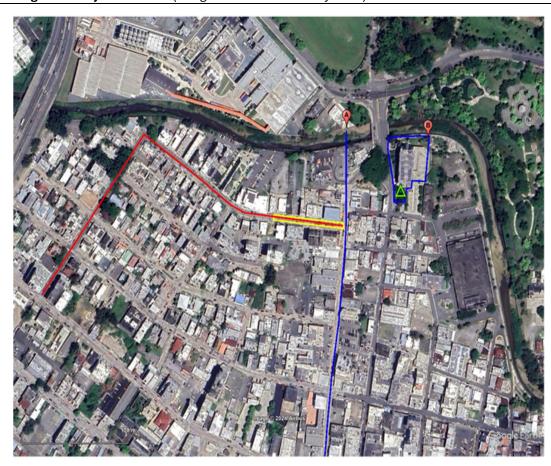
I. OVERVIEW/PREAMBLE

The Municipality of Mayaguez was approved Community Development Block Grant disaster recovery funds financed by the Federal Department of Housing and Urban Development in the aftermath of damages received by the 2017 Hurricanes Irma and Maria. An Agreement was established with the Puerto Rico Department of Housing (PRDOH) for the City Revitalization Program funds as part of the Community Development Block Grant for Disaster Recovery (CDBG-DR) Program. The Municipality of Mayaguez was approved to rehabilitate and renovate *Mejoras a calle Bosque y calle Lcdo. A. Ramírez Silva* and strategically restore it as a resilience area for the community, while preserving the historic development of the space and of the Municipality of Mayaguez. The Puerto Rico State Historic Preservation Office (PRSHPO), in a letter dated October 6, 2024, concurred with a determination of No Adverse Effect for this undertaking, conditioned to the implementation of an archaeological monitoring during all ground disturbing activities for the area identified with potential for the identification of archaeological material associated with Site MY-93 (Figure 1).

The undertaking will repair damages caused by hurricanes Irma and Maria and will improve better lighting at night and early in the morning to promote greater safety on a high-volume +street; In addition, it will improve the condition of the streets, reducing damage to vehicles, adding that it is also used by citizens and/or students on bicycles or scooters. The reconstruction of the sidewalks to provide a more comfortable and safe space for all pedestrians, including the differently abled people. The project will be limited to Bosque Street beginning at its intersection with PR-2R to the east and extending to its intersection at Ramírez Silvia Street, then turning onto Ramírez Silvia Street to its intersection with Méndez Vigo Street. It has a length of 2,040 linear feet, and a width of 40 linear feet. The streets feature a mix of commercial, residential, and mixed-use properties and will not have an impact on other surrounding public space.

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

Figure 1: Project location (Google Earth Pro-February 2024)



Legend:

- Area of Potential Area (APE)
- Proposed Area for Archaeological Monitoring
- Positive Archaeological Studies
 - A. Underground improvements of electrical utilities Post Street, Barrio Pueblo, Mayagüez, 2004.
 - B. Plaza Barcelona, Barrio Pueblo, Mayagüez, 2010. MY-93 in CAT/PAE, Residuario Plaza Barcelona, a pre-Columbian residuary, located 0.084 miles (136 meters) to the northeast of the APE, (Bosque Street).
 - Archaeological Site: MY-93 Residuario Plaza Barcelona Indigenous material

This scope of work is divided into six (6) sections and three (3) appendixes. The section following this preamble discusses the proposed construction works. The third section includes a brief description of the historic properties located within the APE and of the archaeological potential of the area. The fourth section provides a detailed description of the archaeological monitoring procedure to be carried out before, during and after the construction works. Section V includes the professional qualifications of the team that will implement this monitoring plan, and the last section includes the references cited. The plan closes with appendices on: a sample daily monitoring activity sheet (Appendix A), SHPO letter (Appendix B), and project demolition and construction plans (Appendix C)

II. PROJECT DESCRIPTION:

Improvements to Bosque Street and Lcdo. A. Ramírez Silva Street

As established and written by Proponent: Due to the geographic location of Puerto Rico, an active hurricane season is observed every year, with a high risk of direct impact. To prevent or minimize the recurrence of damage from future events or other natural disasters, the project expects to increase the resilience of the lighting system and stormwater controls. In addition, it will create a safer space for vehicle and pedestrian traffic, promoting inclusion by creating accessibility for the community of differently abled people, promoting social, commercial, and residential to meet the existing demand for services. This project seeks to connect communities with an optimal combination of pedestrian traffic and vehicles mobility.

Description of changes

This proposal aims to state improvements to Bosque Street which begin at its intersection with Highway PR-2R to the East and extend to its intersection at Ramírez Silvia Street, then turns down Ramírez Silvia Street to its intersection with Mendez Vigo Street. The project will provide better lighting at night and early in the morning to promote greater safety on a high-volume street; In addition, it will improve the condition of the streets, reducing damage to vehicles, adding that it is also used by citizens and/or students on bicycles or scooters. The reconstruction of the sidewalks to provide a more comfortable and safe space for all pedestrians, including the differently abled people. The proposed changes include the following (See: Demolition and construction plans in Appendix C):

- 1. Reconstruction, redesign, and improvement of both streets with their sidewalks to be ADA compliant, as follows:
 - a. Reduction of automobile lanes to a minimum of 19'-11¾" for double traffic sections, incorporating raised crosswalks that provide accessibility for all pedestrians, in turn serve as speed bumps to control vehicle speed. This applies to the following sections:
 - i. Bosque Street (from Dr. Basora (2R) and R. Betances Streets) to Orquídea Street).
 - ii. Ramírez Silva Street (from Las Flores to Méndez Vigo Streets)
 - b. Increase sidewalks to the maximum possible between 5' to 7'-8", but never under 36" minimum.
 - c. Removal, arrangement, and replacement of sidewalk lighting following design layout.
 - d. Reduced to a single lane in one direction, providing pocket parking spaces to the side of the street, as per the new design for Bosque and Ramírez Silva Street (from Orquídea to Las Flores Street).
 - e. Removal, arrangement, and replacement of street lighting following the design layout and improvements to traffic signals for Bosque and Ramírez Silva Street.
- 2. Replacement of the electrical system and underground aerial telecommunications system.
- 3. Implementation of green infrastructure for stormwater management.
- 4. Reforestation activities, planting new trees.
- 5. Installation/construction of communal garbage collection stations
- 6. Pocket parking on two-way street sections.
 - a. Bosque Street (from Dr. Basora Street (2R) to Orquídea Street).
 - b. Ramírez Silva Street (from Las Flores to Méndez Vigo Street)

Action-Demolition

- All Sidewalks will be demolished to prepare and construct new wider sidewalks as per design. It is expected to demolish up to current soil level, fill and compact as required and build the new sidewalk on the same footprint.
- o Street lanes scarification of asphalt as required, up to existing concrete level.
- Selective demolition of street lanes, to install precast electrical manholes and new underground feeders (electrical and telecommunications). The excavations to place manholes is of approximately 10'2" depth x 8'4" x 11'4" and 11'10" depth x 13'4"x 10'4". Excavation for trenches and other components required for the underground system will be around 6' depth or less.
- Existing above ground utilities distribution system (electrical and telecommunications), including light poles, concrete bases, conduits, and cables.

Excavations:

- 1. Earth movement or disturbance will take place.
 - o All sidewalks will be demolished, and new wider sidewalks will be constructed. This demolition is typically to the current earth level.
 - o Selective demolition will occur to accommodate new underground infrastructure for electrical power distribution and telecommunication.
- 2. Excavations associated with the electrical and telecommunication systems will take place. Selective excavations to install each precast electrical manholes and the new underground feeders for electrical as well as for telecommunication feeders. The excavations to place electrical manholes is of approximately 10'2" depth x 8'4" x 11'4" and 11'10" depth x 13'4"x 10'4". Excavation for trenches and other components required for the underground system will be around the 6' depth or less, this includes underground wiring for street lighting poles.
- 3. Street road paving activities that will occur in the project area will be the removal of asphalt on street lanes up to the concrete level.
 - o There is approximately 4" inch of asphalt, that must be removed and replaced, as finishing.
- 4. Reforestation activities; planting trees.

New equipment

- o Lighting, street poles.
- o Traffic and Street signs
- o New equipment for underground power distribution (manholes, underground transformers, pull boxes, etc.)
- o Trees and gardening
- o Street furniture (benches, trash cans, domino tables)

Rehabilitation / Renovation / Repair / Improvement

- o Reconstruction of streets and sidewalks.
- o Replacement of street and sidewalk lighting.
- o Improvements in traffic signaling.
- o Implementation of green infrastructure for stormwater management.
- o Improvement of the storm sewer which consists of replacing the existing system depending on the conditions and considering new flow capacity, if necessary.

Construction

- o Construction of a pedestrian overpass and speed reduction.
- o Construction of pocket parking lots.
- o Construction of underground infrastructure for power distribution and communication.
- o Demolition work is limited to sidewalks and streets. The works will not impact existing properties along these two streets.

This project is located between the following two streets: Calle Bosque (18.204804, -67.140518) and A. Ramírez Silva Street (18.203980, -67.145075) in Mayagüez, Puerto Rico. It intersects with two main streets in the municipality of Mayagüez, under the cadastral number 233-077-593-09.

PROJECT DESCRIPTION FOR ARCHAEOLOGICAL MONITORING

The archaeological monitoring work to be carried out in the project for improvements to Calle Bosque and Calle Lcdo. A. Ramírez Silva has been delimited for a section located on Calle Bosque related to the location of the MY-93 - Plaza Barcelona site, a Pre-Columbian Residues site (See: Figures 1). The monitoring area will be established from the intersection of Calle Bosque to the East with road PR-2R (Start Coordinates: 18.204789 -67.140487) and with a linear projection of 120 meters to the West (Final Coordinate 18.204930 -67.141606). The development of the project in the area delimited for archaeological supervision includes activities of demolition and excavation include:

- 1. Replacement of the electrical system and underground overhead telecommunications system include:
 - a. Selective demolition of street lanes, to install prefabricated electrical manholes and new underground feeders (electrical and telecommunications).
 - b. Excavations to place manholes are approximately 10'2" deep x 8'4" x 11'4" and 11'10" deep x 13'4" x 10'4". Excavation for trenches and other components required for the underground system will be approximately 6' deep or less.
 - c. Installation of 19 posts, the excavations should have an estimated of 3' to 4' deep.
- 2. Reforestation activities, planting 27 new trees. Each tree planted involves an excavation to a deep of 3' 3".

Based on the architectural evaluation of the project, sixteen (16) properties (see: Figures 2, 3, 4, 5) were identified as eligible for the NHRP. Of these properties, only property #11 is listed as a historic property by the Planning Board and the Puerto Rican Institute of Culture (JP/ICP).

At the conclusion of the evaluation for these historic properties, it has been determined that there are no historic properties listed by the NHRP that are part of the APE and that the project actions will not directly or indirectly affect the eligible historic properties that are part of the APE/Visual APE. However, it is noted that:

1. Activities involving heavy equipment in the vicinity of historic buildings must have a monitor present to prevent accidents and indirect impacts.

III. HISTORICAL PROPERTIES WITHIN THE APE:

The area where the project is located was originally part of the Yagüez River alluvial valley. In early Spanish colonial times, there was known to be an indigenous settlement near the mouth of the Guaorabo River, today under the jurisdiction of Mayagüez (5,096 miles north of the project APE).¹

A zone with high sensitivity of finds for archaeological material related to the location of the MY-93 - Plaza Barcelona site, a Pre-Columbian Residues site located 0.08947 miles (144 meters) northeast of the APE, has been identified within the APE (See: Figure 1). In addition, there is documentation of two archaeological studies that have been conducted near or adjacent to the APE.

The first study is a Phase IA-IB assessment conducted by archaeologist Juan González at the Plaza Barcelona Project.² This assessment identified and reported the MY-93 site. Contradictorily, the archaeological evaluation of Phase IB where eleven (11) test pits were drilled was negative for the identification of cultural material. Due to this determination, archaeologist Norma Medina Carrillo, as part of her research work³, conducted an interview with archaeologist Juan Gonzales on July 8, 2024. Archaeologist Gonzales said that in the area south of the Plaza Barcelona building there is evidence of a pre-Columbian site that was impacted since ca. 1950 by the construction of streets, infrastructure, housing and commercial buildings. Archaeologist Gonzalez said that he observed flint flakes in the area, so it is considered that this area was part of the archaeological site. Gonzalez estimates that the site runs under the streets and in spaces that have not yet been built in that area. Gonzalez interprets it as an extensive site, probably corresponding to an indigenous village.

The second study, Archaeological Monitoring carried out by archaeologist Eduardo Questell in the project: Underground improvements to electrical services on Post Street, Mayagüez⁴; Positive results were observed that identify a Pre-Columbian Residual Site. The starting area of this Monitoring Plan for Bosque Street coincides and intersects with the route of this project on PR-2R.

Existing information on historic properties to determine if any of these properties are located within the APE of this project; shows that the project is located within the boundaries of the Traditional Urban Center of Mayagüez eligible for the National Register of Historic Places (NRHP).

Architect Carlos Ferrán indicates⁵, "As you move along the street, you can see excellent examples of well-built properties spanning from the early 19th century to well into the 20th century, between the Spanish Renaissance and modern vernacular Creole architectural

¹ Orígenes Mayagüezanos, https://www.mayaguezsabeamango.com/archivos/historias final/605-origenes-mayagueezanos

² ICP/CAT-MY-10-16-02 / SHPO 03-15-12-06

³ Section 106 NHPA Effect Determination Form by N. Medina and C. Ferrán, 2024

⁴ ICP/CAT-MY-04-12-01

⁵ Section 106 NHPA Effect Determination Form by N. Medina and C. Ferrán, 2024

styles of Puerto Rico. In addition, especially with North American influences, you can also identify very good examples of late Art Deco style properties combined with international modern styles and Californian bungalows. In summary, Lcdo. A. Ramírez Silva and Bosque streets are part of the Traditional Historic Center of Mayagüez eligible for the NRHP."

The architectural evaluation of the project identified sixteen (16) properties (See: Figures 2, 3, 4, 5) as eligible for the NHRP. Of these properties, only property #11 is listed as a historic property by the Planning Board and the Institute of Puerto Rican Culture (JP/ICP).

To summarize, the identification of historic properties has determined that there are no historic properties listed on the NHRP that are part of the APE and that the project actions will not directly or indirectly affect the eligible historic properties that are part of the APE/Visual APE. The archaeological data obtained in the investigation, including information provided by archaeologist Juan Gonzalez, establishes the delimitation of an area with high sensitivity for archaeological material findings related to the location of the MY-93 - Plaza Barcelona site within the project APE.

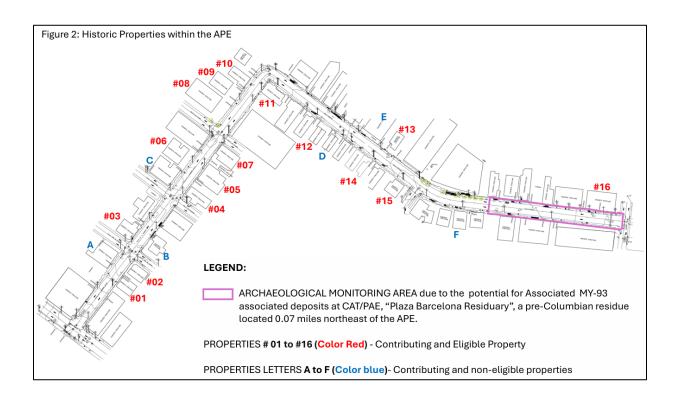
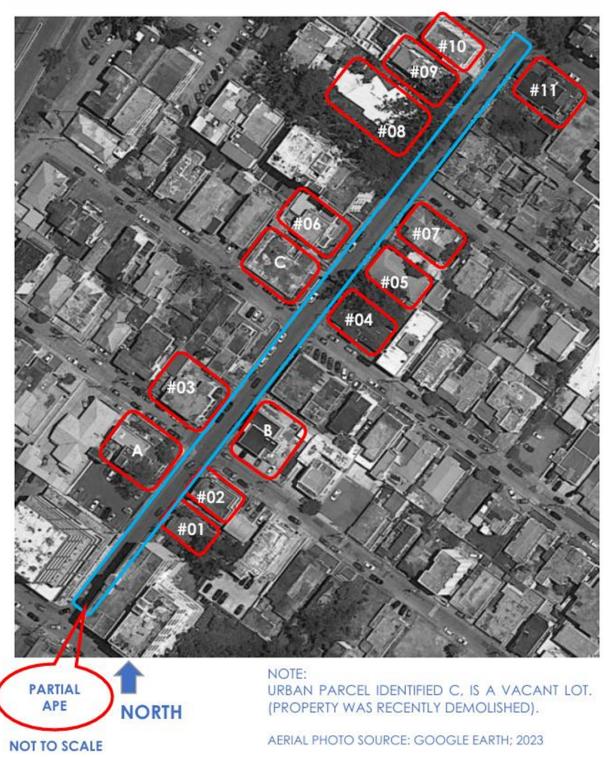


Figure 3: Mayagüez, Puerto Rico. Aerial Photo showing partial APE (Lcdo. A. Ramirez Silva Street) with potentially eligible historic and contributing properties





APE. Contributing and eligible property #01. Lcdo. A. Ramírez Silva Street, East-South view. Puerto Rico Moderne Creole Style with North American California Bungalow Influences. © 1925-40. Materials: Reinforced Concrete and wood windows.



APE. Contributing and eligible property #02. Lcdo. A. Ramírez Silva Street, East view. Puerto Rico Vernacular Moderne Creole Style. © 1925-40. Material: Reinforced concrete.



APE. Contributing and eligible property #03. Corner of Lcdo. A. Ramírez Silva and José de Diego Street, West view. Puerto Rico Vernacular Moderne Creole Style. © 1925-40. Materials: Reinforce concrete.



APE. Contributing and eligible property #04. Corner of Lcdo. A. Ramírez Silva and Acacia Streets, East view. Puerto Rico Vernacular Moderne Creole Style. © 1925-40. Material: Reinforced concrete and masonry.



APE. Contributing and eligible property #05. Lcdo. A. Ramírez Silva Street, North-East view. Puerto Rico Vernacular Moderne Creole Style. © 1925-40. Material: Reinforced concrete and masonry.



APE. Contributing and eligible property #06. Lcdo. A. Ramírez Silva Street, West view. Puerto Rico Spanish Revival Style. © 1925-40. Material: Reinforced concrete and masonry.



APE. Contributing and eligible property #07. Lcdo. A. Ramírez Silva Street, East view. North American California Bungalow Style. Front Porch Column Detail. © 1925-40. Materials: Reinforced concrete, masonry, wood ceilings, Creole Style floor tiles, corrugated metal panels roof finished. Photos



APE Contributing and eligible property #08. Lcdo. A. Ramírez Silva Street, North-West view. North American International Modern Style. © 1960. Material: Reinforced concrete and masonry.



APE Contributing and eligible property #09. Description: Lcdo. A. Ramírez Silva Street, West view. Puerto Rico Spanish Revival Style. © 1925-40. Material: Reinforced concrete and masonry.



APE. Contributing and eligible property #10. Lcdo. A. Ramírez Silva Street, North-West view. Puerto Rico Late Art Deco with Moderne International Style Influences. © 1940-45. Material: Reinforced concrete and masonry.



APE. JP/ICP listed. Contributing. Barket Residence #11. Corner of Lcdo. A. Ramírez Silva and Bosque Streets, South view. Puerto Rico Spanish Revival Style,1939. Materials: Reinforced concrete, wood windows and masonry.



APE. Contributing and non-eligible property. **Identified A**, Lcdo. A. Ramírez Silva Street, South-West view. Puerto Rico Vernacular Modern Creole Style with interventions. Material: Reinforced concrete and masonry.

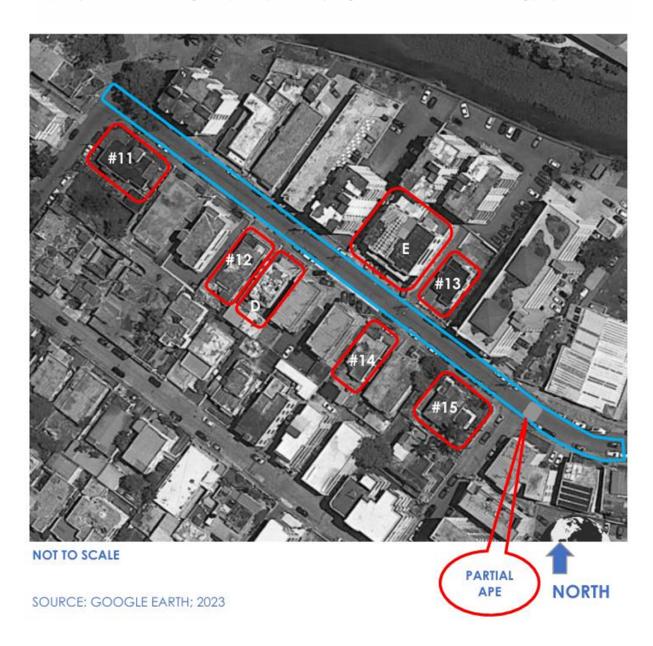


APE. Contributing and non-eligible property, Identified B, Lcdo. A. Ramírez Silva Street, North-East view. Puerto Rico Spanish Revival Style with interventions. Material: Reinforced concrete and masonry.



APE, Identified C, empty urban parcel, Lcdo. A. Ramírez Silva Street, North view.

Figure 4: Mayagüez, Puerto Rico. Aerial photo showing partial APE (Bosque Street- First Segment) with potentially eligible historic and contributing properties



LEGEND FOR BOSQUE STREET – FIRST SEGMENT, (Figure 4)



APE. Contributing and eligible property #12. Bosque Street, South view. Puerto Rico Modern International Style. ©1960. Materials: Reinforced concrete, natural stone finished on porch and base.



APE. Contributing and eligible property #13. Bosque Street, East Front view. Puerto Rico Vernacular Moderne Creole Style with some Spanish Revival Influences. ©1925-40. Materials: Reinforced concrete, masonry, Arabic ceramic roof tile on porch and windows overhangs. Photo



APE. Contributing and eligible property #14, Bosque Street, South view. Puerto Rico Moderne International Style. ©1960. Material: Reinforced concrete.

LEGEND FOR BOSQUE STREET – FIRST SEGMENT, (Figure 4)



APE. Contributing and eligible property #15. Bosque Street, South-West view. Puerto Rico Late Art Deco with Moderne International Style Influences. © 1950. Material: Reinforced concrete.



APE Contributing and non-eligible property, Identified D. Bosque Street, South-West view. Puerto Rico Vernacular Modern Creole Style with some Spanish Revival Influences with interventions. ©1950. Material: Reinforced concrete.



APE. Contributing and non-eligible property, **Identified E**, Bosque Street, North view. Puerto Rico Vernacular Modern International Style with interventions. ©1950. Material: Reinforced concrete.

SOURCE: GOOGLE EARTH, 2023.

Figure 5: Mayagüez, Puerto Rico. Aerial photo showing partial APE (Bosque Street- Second Segment) with potentially eligible historic and contributing properties



LEGEND FOR BOSQUE STREET – SECOND SEGMENT, (Figure 5)



APE. Contributing and eligible property #16. Corner of Bosque Street and Ramón Emeterio Betances Streets, East-North view. Late Spanish Revival. @1950. Material: Reinforced concrete and masonry.



APE. Contributing and non-eligible property, **Identified F**, Bosque Street, South view. Puerto Rico Vernacular Modern International Style with interventions. ©1950. Material: Reinforced concrete.

III. ARCHAEOLOGICAL MONITORING PROCEDURE

The archaeological monitoring activities to be developed are projected during all soil disturbance activities for the area identified with potential for the identification of archaeological material associated with Site MY-93. This designated area has been defined based on the findings of the NHPA Section 106 Effect Determination Form and a meeting with archaeologist Norma Medina Carrillo in November 2024. The location of the area is identified from the intersection of PR-2R with Bosque Street projecting westward up to a distance of 120 linear meters (See: Figure 1).

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

A. Before Construction Begins

- The Construction Manager (CM) will notify the Project Manager (PM), Grant Manager (GM), and Monitor of the proposed activities' start date. The PM is responsible for coordination between the CM and the SOI-qualified archaeologist who will oversee the monitoring (Monitor). The GM shall notify the State Historic Preservation Office (SHPO) of the construction start date and the archaeology company charged with implementing this Plan.
- 2. Before any demolition or construction begins, the PM, CM, GM, and Monitor will have a kickoff meeting to discuss the procedure for archaeological monitoring, including the coordination protocol between the Monitor and the Contractor. The Monitor will provide an orientation on the area's cultural resources and potential resources and their proper treatment. The Monitor will also explain which project activities require archaeological monitoring.
- 3. The CM, PM, and construction crew will complete and sign a statement outlining the activities that may not be performed without the Monitor's presence, demonstrating their understanding and commitment to following the archaeological monitoring procedures.
- 4. The monitor, with the support of the Contractor, will delimit in the field with paint or some other permanent means the boundary of the area that is subject to archaeological monito ring.
- 5. The Monitor will document the historic properties (NRHP-listed and eligible) located within the project's area of potential effects by means of verbal descriptions and photographs. This documentation shall be included as an appendix to the first weekly report.

B. During Demolition and Construction

- 1. The Monitor shall be in the field during all project activities involving demolition and ground disturbance; access and clear sightlines to all demolition and excavation activities and debris removal will be provided to the Monitor. In the event of simultaneous excavations in different areas of the project, an archaeologist should be assigned to each area.
- 2. The Monitor shall provide instructions directly to the construction field personnel concerning how to proceed when there is a potential to impact an archaeological resource.

- The construction field personnel will abide by these requests: excavate slowly, stop the excavation work to evaluate a finding, etc.
- 3. The Monitor shall keep a record of monitored activities. The Monitor shall fill out the Daily Record of Activities Form including photos of the area of interest. (see Error! Reference source not found.). These Forms will be attached to the final report as an appendix. This form shall be emailed to the GM during the following week in which the monitoring was conducted.
- 4. The Monitor shall document all archaeological remains identified during construction activities, except for previously unidentified historically significant findings (refer to B-6 below). The documentation shall include a detailed description of the discovery, context, horizontal and vertical provenience, photos, and a plan drawing. This documentation shall be done within a reasonable amount of time, trying as much as possible, not to impact on the project schedule.
 - a. The documentation may require extending the contractor excavations to expose and define the finds. Associated stratigraphy will be documented and representative samples of associated artifactual material will be recovered. For structural remains, construction materials and techniques will be documented. The controlled units may vary in size according to the nature and dimensions of the archaeological find. These will be excavated by strata, cultural or natural, with vertical and horizontal control. When warranted, the removed soil will be sifted through ¼ inch mesh. The recovered artifactual material will be bagged and labeled by specific origin. It shall proceed in accordance with the protocol included in item B-7.
- 5. Any subsurface feature may be demolished and removed after being documented by the Monitor and approved by the GM. The information recorded will be included in the final report.
- 6. If the identified archaeological remains are considered historically significant— i.e., complex structures, precolonial remains or stratified deposits the Monitor shall instruct the construction crew to (1) immediately cease work in the vicinity of the discovery, (2) take all reasonable measures to avoid or minimize harm to the property, and (3) notify the PM, CM, and GM. The GM shall immediately notify the SHPO, as per stipulation III.B.1.b. of the PA. The following protocol shall be followed:
 - a. The Monitor shall make a preliminary assessment of the finding. The assessment shall include a description of the discovery, location, horizontal and vertical extent (if known), context, photographs, and drawings, as deemed necessary. The assessment shall also include a work plan for implementing a National Register of Historic Places' eligibility evaluation of the exceptional remains (in other words, an evaluation of significance and integrity).
 - b. The assessment and NRHP-eligibility evaluation work plan shall be submitted via email to the PM and GM within 24 hours of the discovery. The GM will comment on the work plan within 24 hours of receiving it.
 - c. The Monitor shall implement the work plan after receiving the GM's authorization to proceed. After completing the fieldwork, the Monitor shall prepare an End of Field Report, summarizing the results. Said report should include an NRHP-eligibility determination. The End of Field Report shall be submitted via email to the PM and GM within 48 hours after completing the fieldwork.
 - d. The GM shall notify the SHPO of the NRHP-eligibility determination.

- i. If the finding is **not eligible** to the NRHP, the GM shall notify the SHPO and provide supporting documentation. Construction activities may resume under archaeological monitoring unless the SHPO disagrees with the NRHP determination and makes a timely objection within 48 hours of the notification.
- ii. If the finding is **eligible** to the NRHP, the criteria of adverse effect shall be applied. If the project activities do not adversely affect the finding, the GM shall notify the SHPO and provide supporting documentation. Construction activities may resume under archaeological monitoring unless the SHPO makes a timely objection within 48 hours of the notification.
- iii. If the project activities have an adverse effect on the NRHP-eligible finding, a Data Recovery will be implemented as a Treatment Measure per Appendix F of the PA. The Monitor shall develop a data recovery plan with a research design consistent with the Secretary of the Interior's Guidelines for Archeological Documentation (http://www.nps.gov/history/locallaw/arch_stnds_7.htm), the Advisory Council on Historic Preservation's (ACHP) recommendations on the recovery of significant information from archaeological sites as updated in 2009, at https://www.achp.gov/protectinghistoricproperties/Section_106_Archaeology.

https://www.achp.gov/protectinghistoricproperties/Section_106_Archaeology_Guidance and Regulation #8932. The data recovery plan shall be submitted via email to the GM for comments. The GM shall be responsible for submitting the data recovery plan to the SHPO for comments and approval. This treatment measure does not apply to burials or human remains (refer to IV.D of this work plan).

- 7. Processing of archaeological artifacts, if any, will be conducted concurrently with the field work. A summary of these activities shall be included in the monthly report. Artifacts shall be curated and processed in accordance with the standards set forth in 36 CFR Part 79 Curation of Federally-Owned and Administered Archaeological Collections.
 - a. Artifacts shall be washed and sorted. Materials such as ceramics, lithics, shell, bone, glass, metal, and others, should be subject to general analysis considering aspects such as material, manufacture, style, function, type, variety, use, and others. Due to their nature, some of these materials require specialized analysis such as studies of malacology, zooarchaeology, bioarcheology, among others, which should be carried out by specialists. The classification scheme used in the classification will be chosen by the archaeologist according to the context, type of material recovered and previous experience. The classification scheme shall be referenced with available bibliographic references.
 - b. The materials laboratory shall include a quantitative, qualitative, and comparative analysis of all archaeological materials recovered during archaeological monitoring. An inventory of artifacts by category, and a catalog of artifacts by material type shall be prepared.
 - c. Photographic documentation shall be made of representative artifacts in the collection.
 - d. If necessary, documentary research will be conducted for analysis and interpretation of artifacts and other finds.
 - e. Samples from strata or from particular cultural elements must be properly packaged, labeled and preserved. The data resulting from their analysis must be included in the final report.

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

C. After Construction Ends

- 1. Upon the completion of archaeological monitoring, the PM and GM shall be notified. The estimated date of delivery of the final report shall be indicated in the said notification.
- 2. The Monitor shall again document the historic properties located within the project's area of potential effects. The condition of the properties should be compared with those documented at the beginning of the project. This documentation shall be included in the final technical report.
- 3. A Final Archaeological Monitoring Report shall be prepared and submitted by the date stipulated in the End of Field Report. This report shall include a description of the work performed, the construction activities that were archaeologically monitored, and documentation of unexpected finds, if any. It should also include final documentation of the condition of the properties along with a comparison of the final condition of the structures to the initial condition.

D. Human Remains

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

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

IV. PROFESSIONAL QUALIFICATIONS:

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

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

CITED REFERENCES:

Advisory Council on Historic Preservation

2009 ACHP recommendations of recovery of significant information from archaeological sites https://www.achp.gov/protectinghistoricproperties/Section_106_Archaeology-Guidance.

SOI Archaeologist Norma Medina-Carrillo / SOI Architectural Historian Carlos Ferrán
 Puerto Rico 2017 Disaster Recovery, CDBG-DR Program.
 City Revitalization Program (Mejoras a calle Bosque y calle Lcdo. A. Ramírez Silva, Mayagüez, PR). Section 106 - NHPA Effect Determination Form.

National Park Service

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

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

Applied Engineering Group

2024 100% Design Drawings. Streets Improvements Bosque Street and Lic. A. Ramírez Silva, Municipality of Mayaguez, Puerto Rico. PR-CRP-000857.

V. APPENDIX A: Sample daily monitoring activity sheet

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM CITY REVITALIZATION PROGRAM (CITY-REV) Section 106 NHPA Effect Determination Project Name:		GOVERNMENT OF PUERTO RICO DEPARTMENT OF HOUSING		
Case ID:		City:		
Project Coordinates:		City.		
Project Coordinates:				
SOI Qualified-Archaeologist:				
Archaeologist Assistant:				
Date of Monitoring:				
Work Hours:				
Description of work performed by contractor and supe	ervised by the wionite			
	YES	NO		
Was an archaeological remain documented during the day. If yes, include required information below.		Х		
Was an exceptional archaeological remain identified during the day? If yes, explain below.		X		
Have the construction activities affected a previously unidentified property or a known historic property in an unanticipated manner? If yes, explain below.		Х		
Has there been a change in the scope of work of the project? If yes, explain below.		Х		

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM CITY REVITALIZATION PROGRAM (CITY-REV) Section 106 NHPA Effect Determination Project Name:		GOVERNMENT OF PUERTO RICO
Project Coordinates:		
Site Photos		
Direction of Photo: Description:		
Direction of Photo: Description:		



GOVERNMENT OF PUERTO RICO

STATE HISTORIC PRESERVATION OFFICE

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

Sunday, October 6, 2024

Lauren B Poche

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

SHPO-CF-09-25-24-05 PR-CRP-000857 (Mayagüez), Mejoras a la Calle Bosque y Calle Lic. A. Ramírez Silva

Dear Ms. Poche,

Our Office has received and reviewed the above referenced project in accordance with 54 USC 306108 (commonly known as Section 106 of the National Historic Preservation Act, as amended) and 36 CFR Part 800: Protection of Historic Properties from the Advisory Council on Historic Preservation.

After a review of all the documentation, the PRSHPO agrees with your finding that the proposed project, with the established conditions, will have no adverse effect upon historic properties:

1. Archaeological monitoring during ground disturbing activities. Please provide us with the archaeological monitoring work plan, for our review and concurrence, prior to implementation.

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

Sincerely,

Carlos A. Rubio Cancela State Historic Preservation Officer

my afantis

CARC/GMO/ MB



Cuartel de Ballajá (Tercer Piso), Calle Norzagaray, Esq. Beneficencia, Viejo San Juan, PR 00901 | PO Box 9023935, San Juan, PR 00902-3935







9/25/2024

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

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

Section 106 NHPA Effect Determination Submittal for PR-CRP-000857: Mejoras a calle Bosque y calle Lcdo. A. Ramírez Silva Project, Mayagüez, Puerto Rico – No Adverse Effect, Conditioned

Dear Architect Rubio Cancela,

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

On behalf of PRDOH, HORNE is submitting documentation for the proposed Mejoras a Calle Bosque y Calle Lcdo. A. Ramírez Silva Project. The Municipality of Mayagüez is proposing to rehabilitate and renovate Bosque and Ramírez Silvia Streets. Bosque Street renovations will begin at its intersection with Highway PR-2R to the East and extends to its intersection at Ramírez Silvia Street, then continue down Ramírez Silvia Street to its



intersection with Mendez Vigo Street. Work will consist of the reconstruction, redesign, and improvement of the streets and sidewalks to comply with ADA regulations, the replacement of street lighting, replacement of the electrical system and underground aerial telecommunications system, installation of green infrastructure for stormwater management, landscaping, installation of new garbage receptacles, and new pocket parking sections. 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, conditioned to archaeological monitoring to be conducted during ground disturbing activities. This is due to the potential for deposits associated MY-93 in CAT/PAE, "Residuario Plaza Barcelona", a pre-Columbian residuary located 0.07 miles to the northeast of the APE. An archaeological monitoring plan will be prepared and submitted to the PRSHPO for review and approval.

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

Kindest regards,

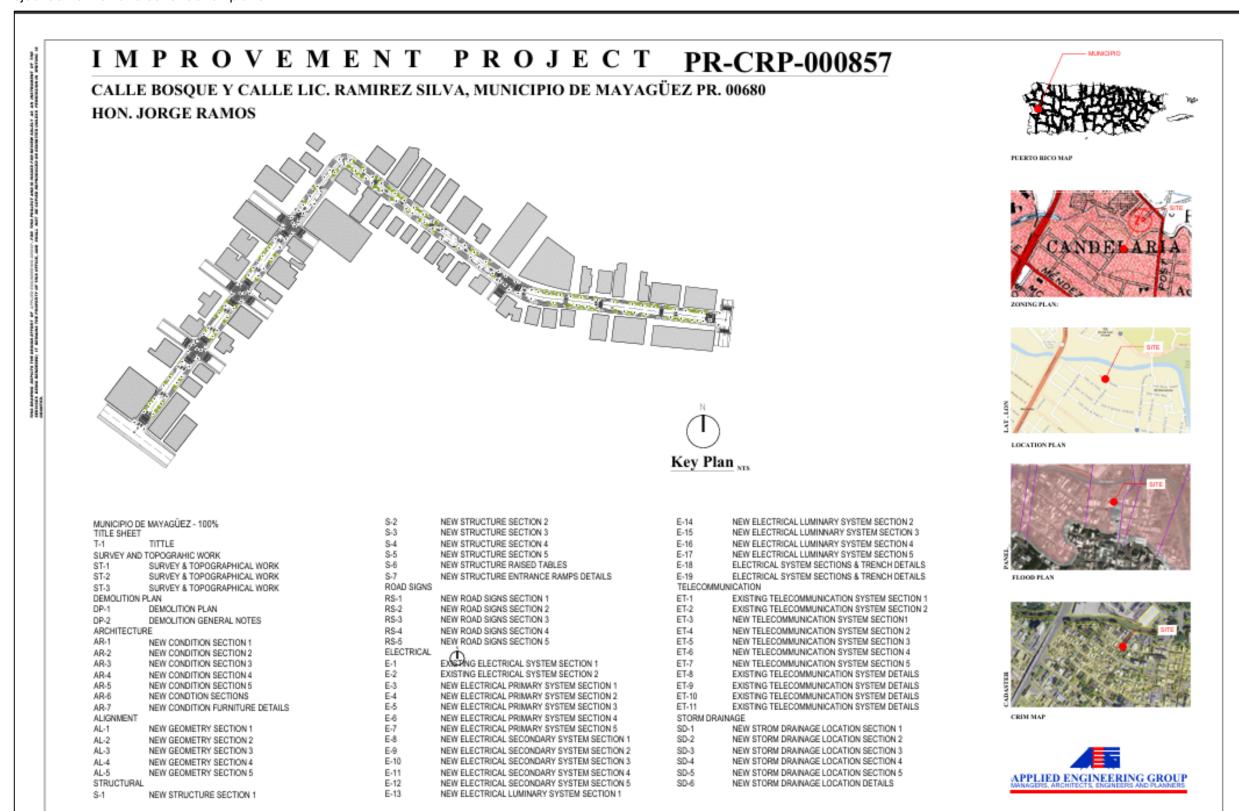
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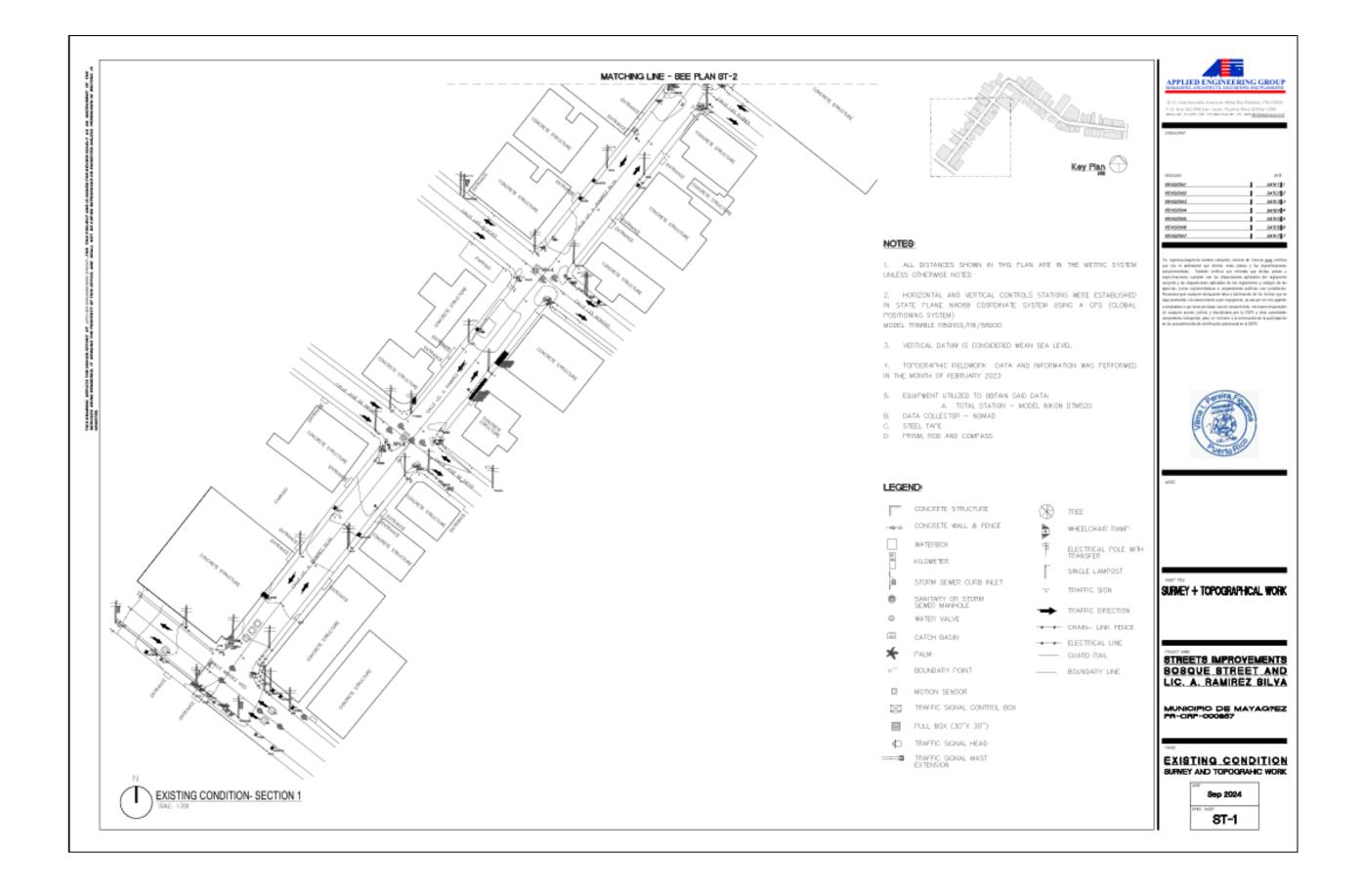
Lauren Bair Poche. M.A.

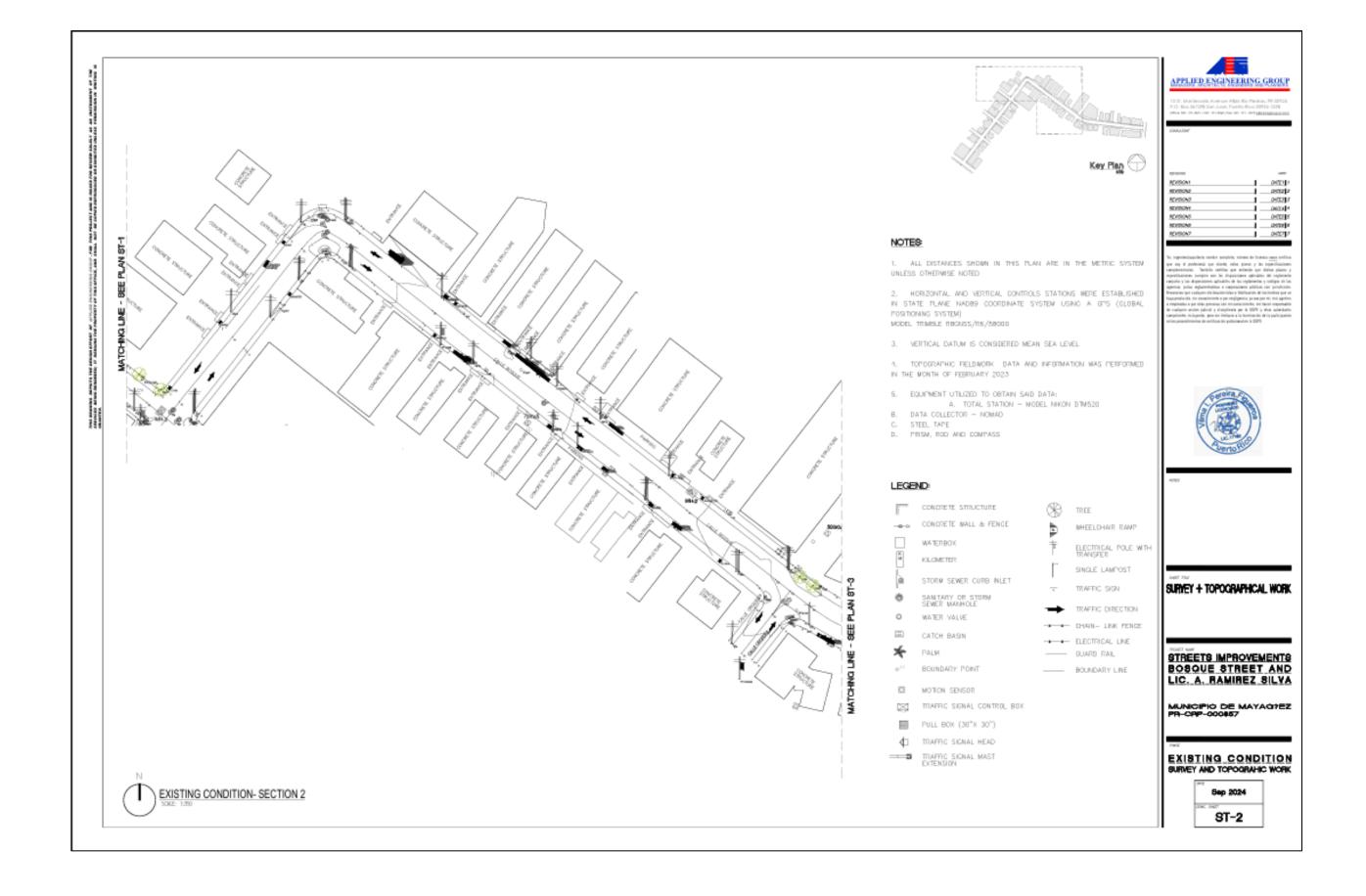
Architectural Historian, Historic Preservation Senior Manager

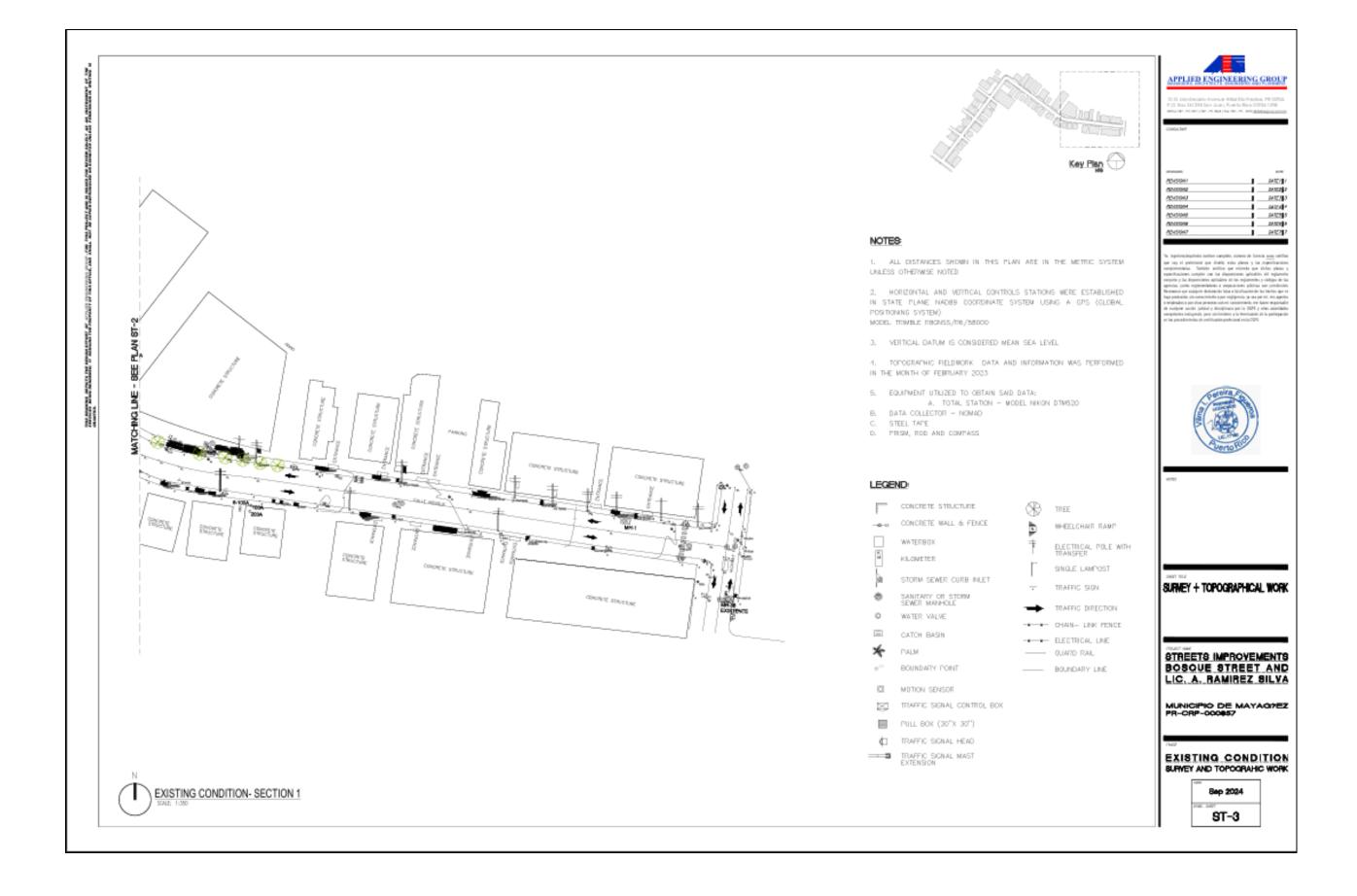
Attachments

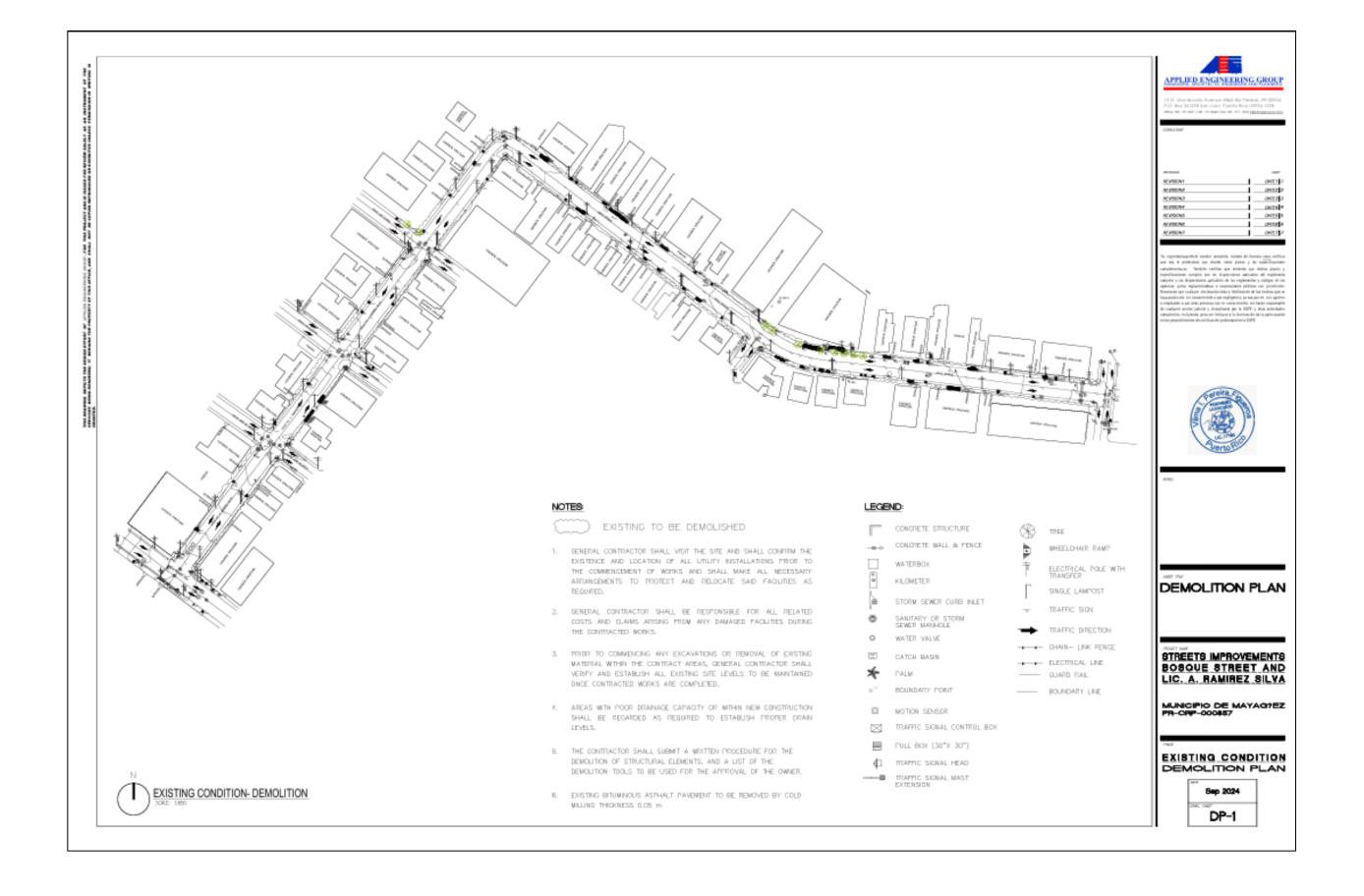
LBP/JCO











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- 2. ANY CONCRETE THAT CAN BE RECYCLED SHALL BE RECYCLED TO PRODUCE AN ASTON MINIMUM CLASSIFICATION OF A-2-4 SUB-BASE
- 3. ANY ASPHALT THAT CAN BE RECYCLED SHALL BE RECYCLES AND REUSE ON SITE.
- CONTRACTOR SHALL DISPOSE PROPERLY OF ALL NON-RECYCLABLE MATERIALS FROM DEMOLITION WORK, INCLUDING SITE GARBAGE ACCUMULATIONS, IN CERTIFIED LANDFILLS ACCORDING TO MUNICIPAL. STATE & FEDERAL REGULATION, SEE AND COMPLY WITH HAZARDOUS MATERIALS ABATEMENT REMOVAL & DISPOSAL REQUIREMENTS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE INFLICTED TO THE PROJECT PROPERLY OR ADJACENT PROPERTIES OR OTHER PROJECT AREAS TO REMAIN DURING THE DEMOLITION AND CONSTRUCTION PHASES, DAMAGED ITEMS SHALL BE RESTORED TO IT'S ORIGINAL CONDITION AT CONTRACTOR'S EXPENSE AND OWNER'S SATISFACTION AT NO ADDITIONAL COST TO OWNER.
- 6. DEMOLITION AND REMOVAL SHALL BE CONDUCTED IN A MANNER THAT ELIMINATED HAZARDS TO PERSONS, THE ENVIRONMENT AND PROPERTY IN THE PROJECT AND THE SURROUNDING AREA. THE CONTRA TOR SHALL PREVENT THE RELEASE OF LEAD CONTAINING DUST WERE APPLICABLE IN THE AIR AND SOIL.
- 7. FOR ALL DEBRIS AND SCRAP MATERIAL CONTRACTOR SHALL DISPOSE OF AS TO MAINTAIN THE PROJECT SITE & SURROUNDING FREE OF WASTE MATERIALS, ACCORDING TO MUNICIPAL, STATE & FEDERAL
- 8. THE CONTRACTOR SHALL MAINTAIN ALL STREETS FREE OF OBSTRUCTIONS AND LEAN AT ALL TIMES. WHERE WASHING WITH WATER IS REQUIRED TO CONSTRUCT OR TO PREVENT HEALTH HAZARDS TO ADJACENT RESIDENTIAL AND COMMERCIAL AREAS, CONTRACTOR SHALL USE WATER TANK TRUCKS AT HIS OWN COST OR REQUEST A TEMPORARY CONNECTION FROM AN AVAILABLE AAA METER, AND CANNOT BE TAKEN FROM PUBLIC FIRE HYDRANTS OR NEIGHBORS.
- THE CONTRACTOR SHALL SUBMIT, PROCURE AND OBTAIN ALL NECESSARY DOCUMENTS AND PERMITS FROM TO OGPE AND ENVIRONMENTAL DUALITY BOARD OF PUERTO RICO, SOLIO WASTE AUTHORITY AND EPA, IN ORDER 'TO PROCEED WITH CONTRACTED
- 10. CONTRACTOR MUST MAINTAIN IN FULL FORCE ALL EXISTING PROJECT PERMITS AND / OR SUBMIT AND OBTAIN NEW PERMITS AT HIS OWN
- 11. THE CONTRACTOR WILL NOTIFY AND OBTAIN PERMIT FROM THE PUBLIC SERVICE COMMISSION PRIOR TO EXCAVATION AND DEMOLITION WORK IN THE PROJECT, PERMITS AND APPROVALS CONCERNING PROJECT ACTIVITIES MUST BE SUBMITTED TO THE OWNER AND HIS REPRESENTATIVE BEFORE PROCEEDING WITH ANY CORRESPONDING

- PRIOR TO PROCEEDING WITH THE PLANTING AND REFORESTATION WORK, CONTRACTOR MUST FOLLOW THE REQUIREMENTS OF THE DEPARTMENT OF NATURAL RESOURCES A PERMIT FOR CUTTING, PRUNING AND PLANTING.
- 13. UTILITIES AND SERVICES (CONSISTING BUT NOT LIMITED TO WATER, SEWER, ELECTRICITY, GAS, CABLE TV, DATA AND TELEPHONE) CAN NOT BE SUSPENDED, WITHOUT PRIOR AUTHORIZATION OF THE PROJECT MANAGEMENT. IF ACCIDENTALLY ANY SERVICE IS INTERRUPTED DUE TO PROJECT ACTIVITIES, CONTRACTOR WILL PROVIDE IMMEDIATE REPAIR TO OWNER'S SATISFACTION AT NO ADDITIONAL DOST TO OWNER.
- 14. THE CONTRACTOR IS RESPONSIBLE TO TAKE PHOTOS OF THE EXISTING CONDITIONS PRIOR BEGINNING DEMOLITION WORKS. THIS IS REQUIRED FOR ANY CLAIM THAT ARISES AND MUST BE DELIVERED TO THE RESIDENT INSPECTOR FOR HIS FILES.
- 15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND DISPOSITION OF GARBAGE & RECYCLING DUMPSTER DURING DEMOLITION AND CONSTRUCTION WORKS.
- 16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF TEMPORARY OR NECESSARY EQUIPMENTS OR UTILITIES FOR THE PROVISION OF ELECTRICITY, POTABLE WATER AND SANITARY
 SERVICES THE CONSTRUCTION INSPECTION TEAM DURING THE
 DEMOLITION AND CONSTRUCTION PERIOD, THE CONTRACTOR SHALL
 ALSO PROVIDE TEMPORARY OFFICE TRAILER FOR THE CONSTRUCTION INSPECTION TEAM.

DEMOLITION NOTES - ELECTRICAL WORKS:

- CONTRACTOR SHALL REMOVE ALL ELECTRICAL EQUIPMENT AND MATERIALS FROM AREAS TO BE REMODELED TAKING CARE THAT DIRCUITS THAT ARE TO BE KEPT ENERGIZED ARE COORDINATED TO
- EXISTING CIRCUITS AFFECTED BY THIS REMODELING SHALL BE CHECKED SO THAT THEY ARE LEFT WITHOUT SHORTS AND FREE FROM ANY DEFECT.
- N AREAS REMODELED, CONTRACTOR SHALL REMOVE ALL CONDUITS NOT EMBEDDED IN CONCRETE. CONDUITS EMBEDDED IN CONCRETE. THAT ARE ABANDONED SHALL BE LEFT WITHOUT ANY CONDUCTORS.
- 4. ALL BOXES SHALL BE PROVIDED WITH BLANK PLATES.
- 5. CONTRACTOR MUST VERIFY THAT PANELBOARDS INSTALLATION COMPLIES WITH NEC REQUIREMENTS AND THAT IT HAS ALL PROTECTIVE COVERS, DOORS AND BREAKERS SPACES COVER TO

DEMOLITION NOTES - SAFETY AND HEALTH PRECAUTIONS

- CONTRACTOR SHALL PROVIDE A RISK FREE ENVIRONMENT FOR ALL EMPLOYEES AN THEIR SURROUNDING, HE MUST GUARANTEE THE SAFETY AND HEATH OF ALL EMPLOYEES, SUBCONTRACTORS
- THE CONTRACTOR SHALL PROVIDE A SAFETY AND HEALTH PLAN PRIOR TO START ANY FIELD WORK.
- 3. SAFETY MEASURES AND PRECAUTIONS DURING DEMOLITION/ CONSTRUCTION (ALL O.S.H.A. AND E.P.A. UPDATED COMPLIANCE IS UNDER EFFECT.).
- 4. GENERAL WORK RELATED TO THE DEMOLITION OR ALTERATION TO THE PROJECT SITE MUST BE UNDERTAKEN IN CONFORMITY WITH THIS
- 5. SAFETY MEETINGS THE CONTRACTOR WILL PERFORM WEEKLY SAFETY TOURS AND MEETINGS WITH HIS PERSONNEL TO TRAIN AND DISCUSS THE BEST PRACTICES AND SAFETY MEASURES TO BE
- 6. THE CONTRACTOR WILL PERFORM CONTINUOUS JOB SITE INSPECTION CONTRACTOR WILL PERFORM CONTINUOUS JOB STE INSTACTION
 CONFIRM ANY POTENTIAL SAFETY HAZARDS IF A POTENTIAL HAZARD
 IS SUSPECTED OR FOUND, THE CONTRACTOR WILL USE THE
 APPROPRIATE METHODS, EQUIPMENT, DEVICES AND MATERIAL TO
 ASSURE A SAFE WORKPLACE, SAFETY TOURS AND MAINTAIN A SAFE AND ADDIDENT FREE JOB.
- THE CONTRACTOR WILL PROVIDE TRAINED AND EXPERIENCED PERSONNEL TO ASSURE A JOB PROPERLY DONE AND SAFE. THE CONTRACTOR SHALL PROVIDE A HEALTH & SAFETY COORDINATOR.
- B. THE CONTRACTOR WILL BE RESPONSIBLE FOR FIRE PROTECTION IN THE WORK AND OPERATIONAL AREAS.
- THE BOSQUE STREET, LIC. A. RAMIREZ SILVA STREET OR OTHER STREETS SURROUNDING CANNOT BE USE FOR THE STORAGE OF CONSTRUCTION OR COMBUSTIBLE MATERIAL
- 10. THE CONTRACTOR SHALL PROVIDE FIRE EXTINGUISHERS FOR THE ENTIRE DEMOLITION/ CONSTRUCTION AREA.
- 11. ALL HEAVY EQUIPMENT SHOULD HAVE ITS OWN FIRE EXTINGUISHERS OR HAVE ONE AVAILABLE IN A 10D FEET RADIUS FROM IT.
- DURING DEMOLITION/ CONSTRUCTION PERIOD FREE ACCESS TO FIRE HYDRANTS, OR TO OTHER FIRE EXTINGUISHING EQUIPMENT, SHALL BE PROVIDED AND MAINTAINED AT ALL TIMES.
- 13. CONTRACTOR EMPLOYEES WILL BE REQUIRED TO DRESS PROPERLY WHILE PERFORMING THEIR JOB, EACH WORKER WILL USE APPROPRIATE WORKING SAFETY SHOES, PROPER RESPIRATORY PROTECTION WILL BE USE WHEN REQUIRED, PROPER HEARING PROTECTION WILL BE USE WHEN REQUIRED, PROPER HEARING DROTECTION WILL BE USE WHEN REQUIRED, PROPER HEARING DROTECTION WILL BE USED BY ADEAS MALEDE SOURCE AND ADEAS WHEN REQUIRED. PROTECTION WILL BE USED IN AREAS WHERE SOUNDS ARE HIGHER



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DEMOLITION GENERAL NOTES

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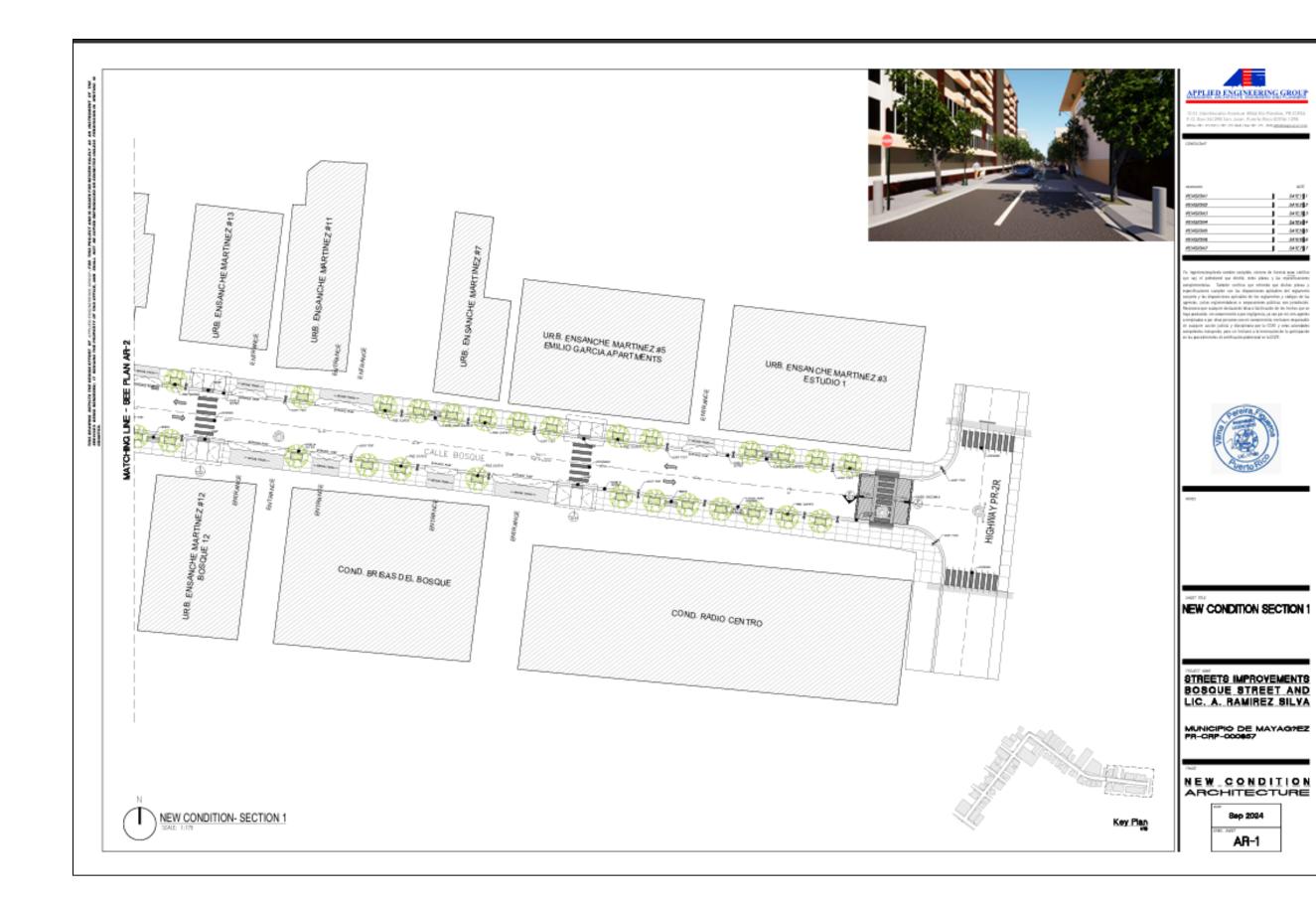
MUNICIPIO DE MAYAGTEZ PR-CRP-000857

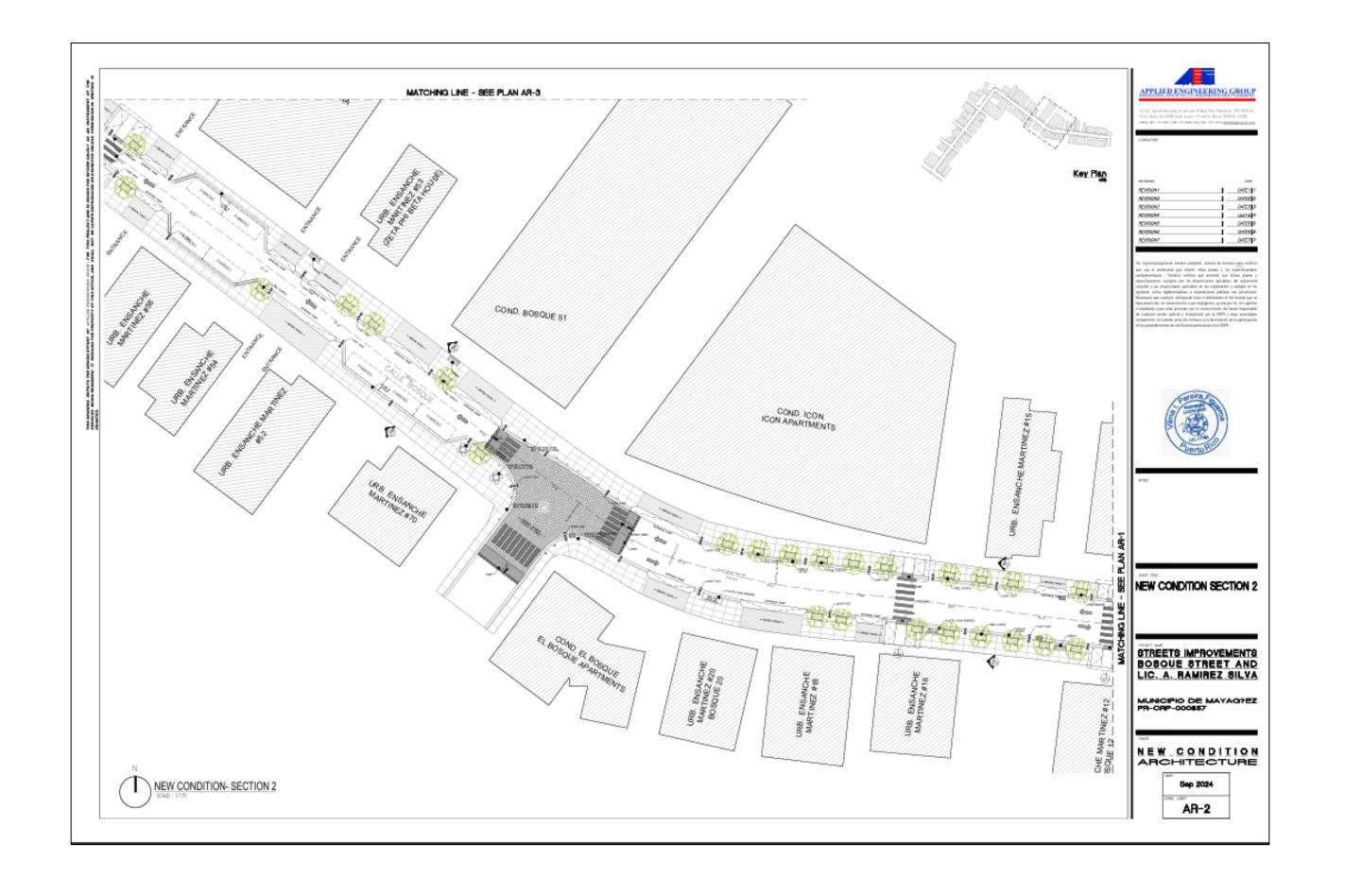
EXISTING CONDITION DEMOLITION PLAN

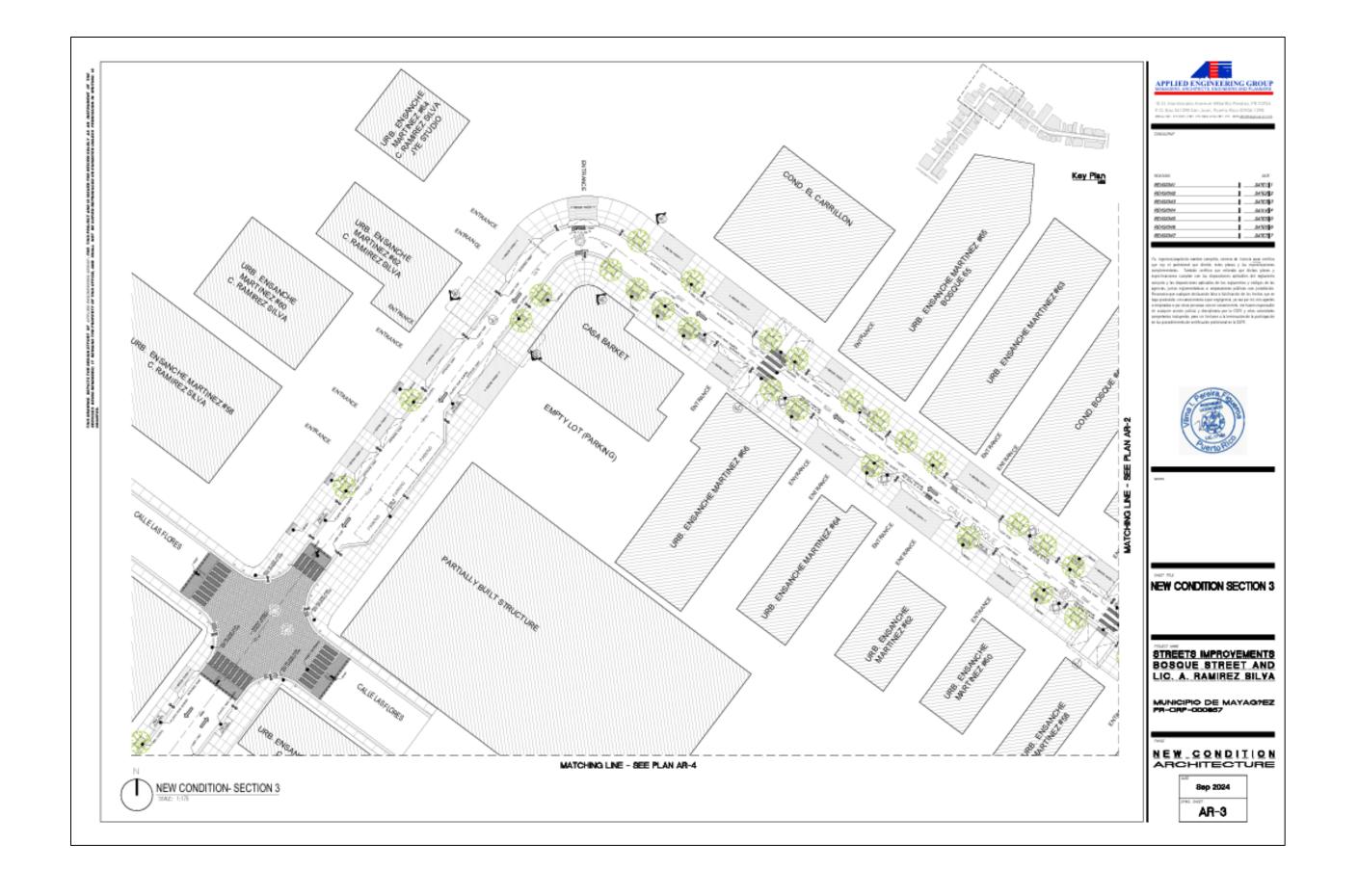
Sep 2024

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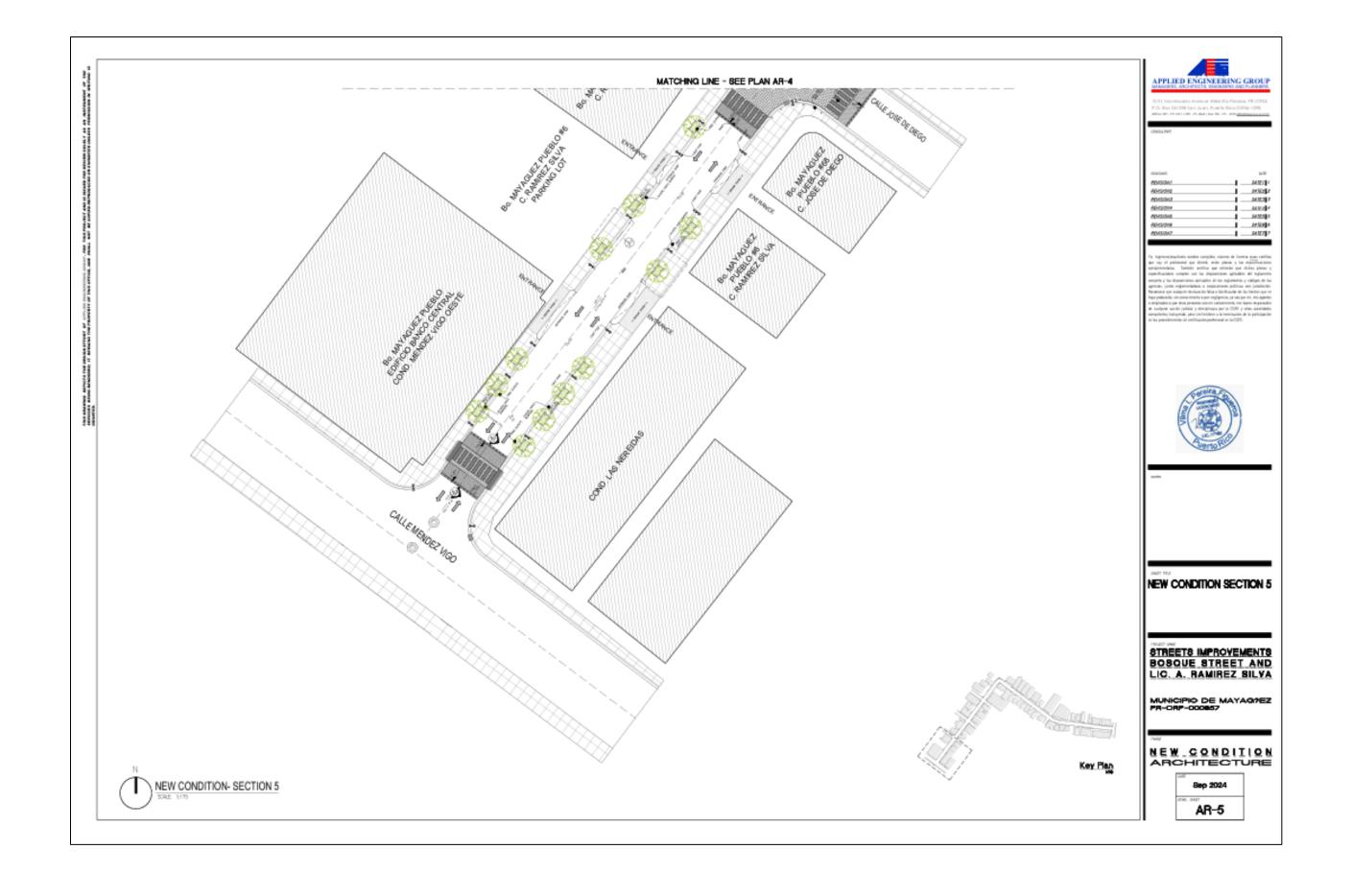
EXISTING CONDITION- DEMOLITION GENERAL NOTES

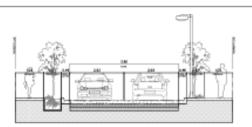




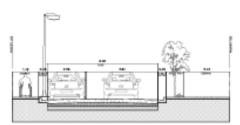




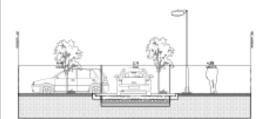




TWO WAY STREET- SECTION A - BOSQUE STREET SCALE: 1: 75



ONE WAY STREET AND PARKING AREA- SECTION B SCALE: 1: 75



CORNER SECTION - SECTION C- BOSQUE STREET SCALE: 1: 75

PORTLAND CEMENT CONCRETE PAYEMENT
 THICKNESS OF 0.15m FOR STREETS
 B. RUPTURE MODULE 650 LBS/PLG², IN
BENDING AT 28 DAYS

o. BASE LAYER THICKNESS OF 0.15m b. 100% COMPACTION (A.A.S.H.T.O, T-99) c. C.B.R. (MINIMD) 80%

a. SELECTED MATERIAL THICKNESS OF 0.20m

c. CROWN SLOPE 2%

3. SUB-BASE

CONCRETE TREAD WITH CORD MINIMUM SPECIFICATIONS

4. ALINAMIENTO

T-99)

FILLING = 95%

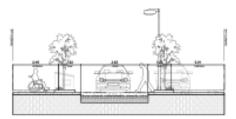
5. SIDEWALK

a. MINIMUM SLOPE 0.5% b. MAXIMUM SLOPE 16%

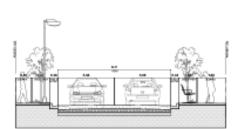
a, COMCRETE OF 3,000 LBS/PLG2 IN COMPRESSION b. THICKNESS OF 0.10m

c. SUGRADE COMPACTION 90% (A.A.S.H.T.O

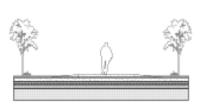
6. ROAD SUGRADE
a. COMPACTION OF THE LAST 30cm = 100%
b. COMPACTION OF THE REST OF THE



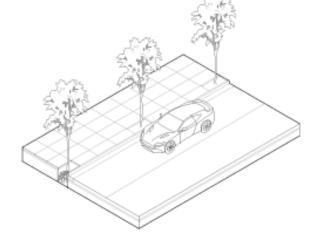
ONE WAY STREET - SECTION D LIC. A. RAMIREZ SILVA STREET SCALE 1:75



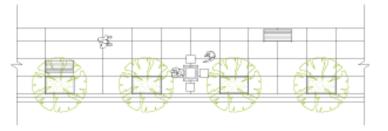
TWO WAY STREET - SECTION E LIC. A RAMPEZ SLVA STREET SCALE: 1:75



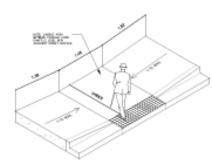
ELEVATED CROSSWALK -SECTION F SCALE: 1: 75

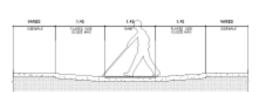


TYPICAL STREET ISOMETRIC SCALE: 1:100



SIDEWALK EXPANSION SCALE: 1: 75

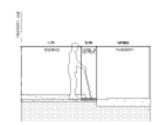




PAVEMENT DETAIL

SCALE: 1:15

RAMP ELEVATION



RAMP SECTION SCALE: 1: 40



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NEW CONDTION SECTIONS

STREETS IMPROVEMENTS BOSQUE STREET AND LIC. A. RAMIREZ SILVA

MUNICIPIO DE MAYAGREZ PR-CRP-000857

NEW CONDITION ARCHITECTURE

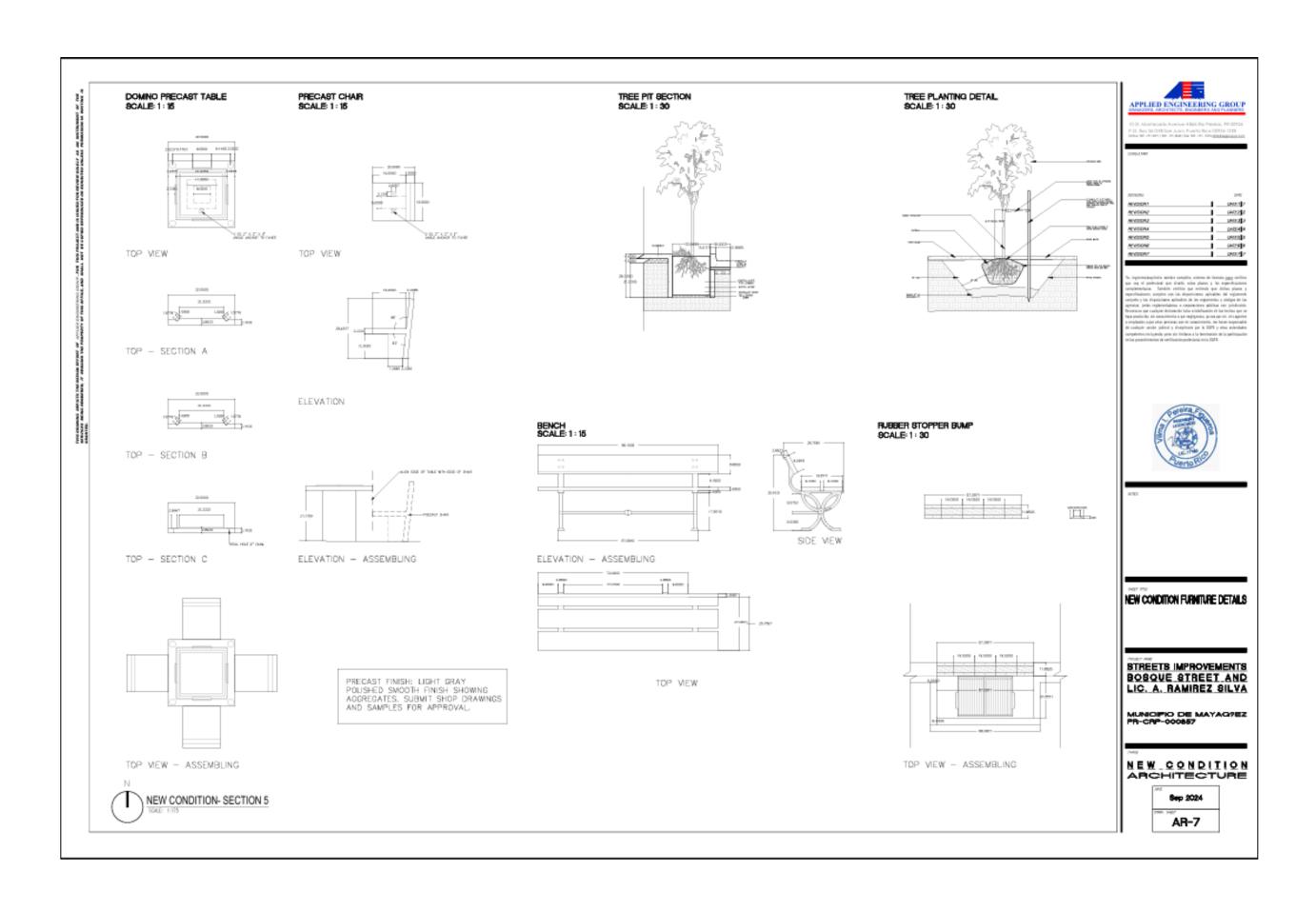
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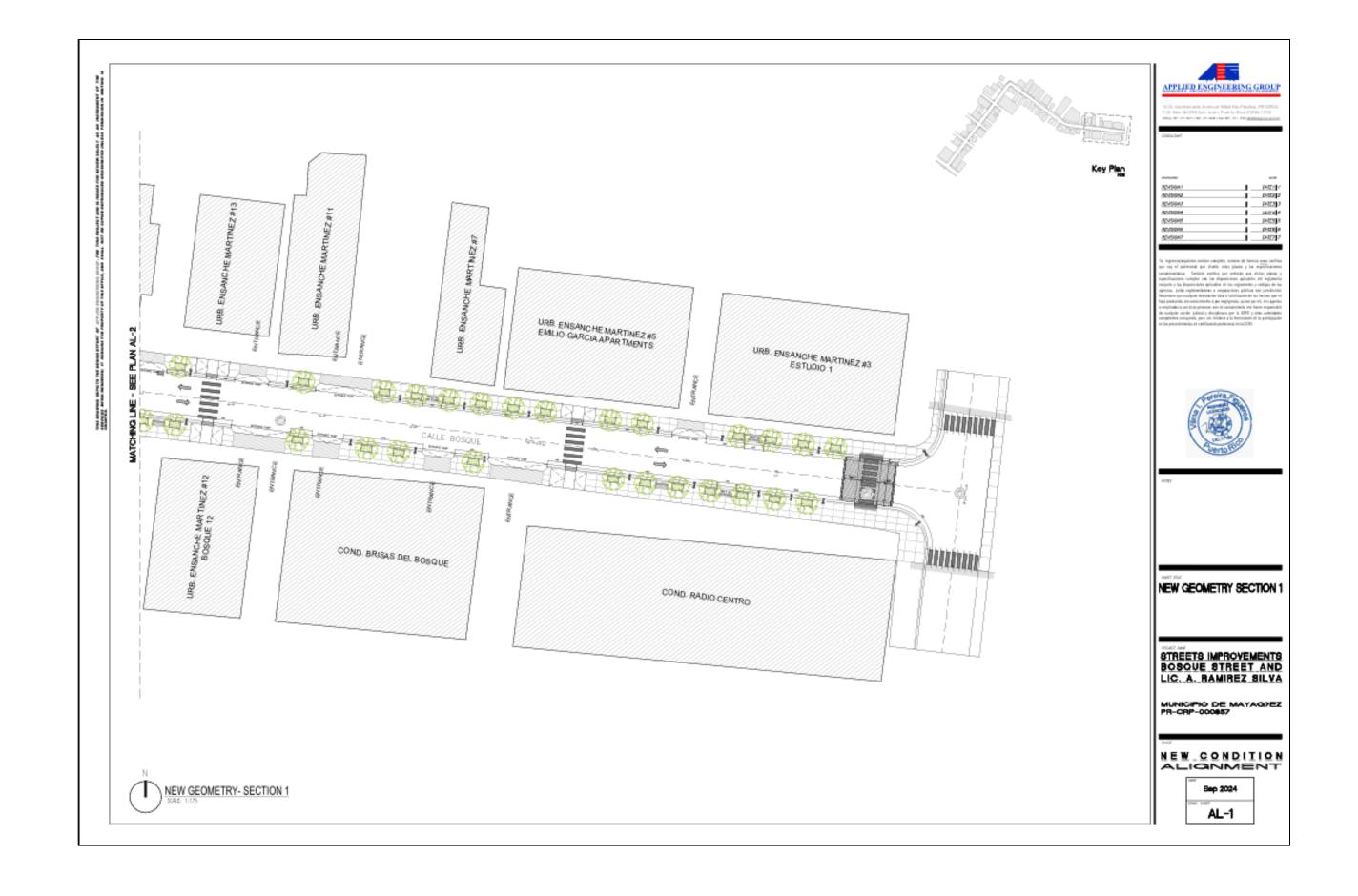
NEW CONDITION- SECTIONS

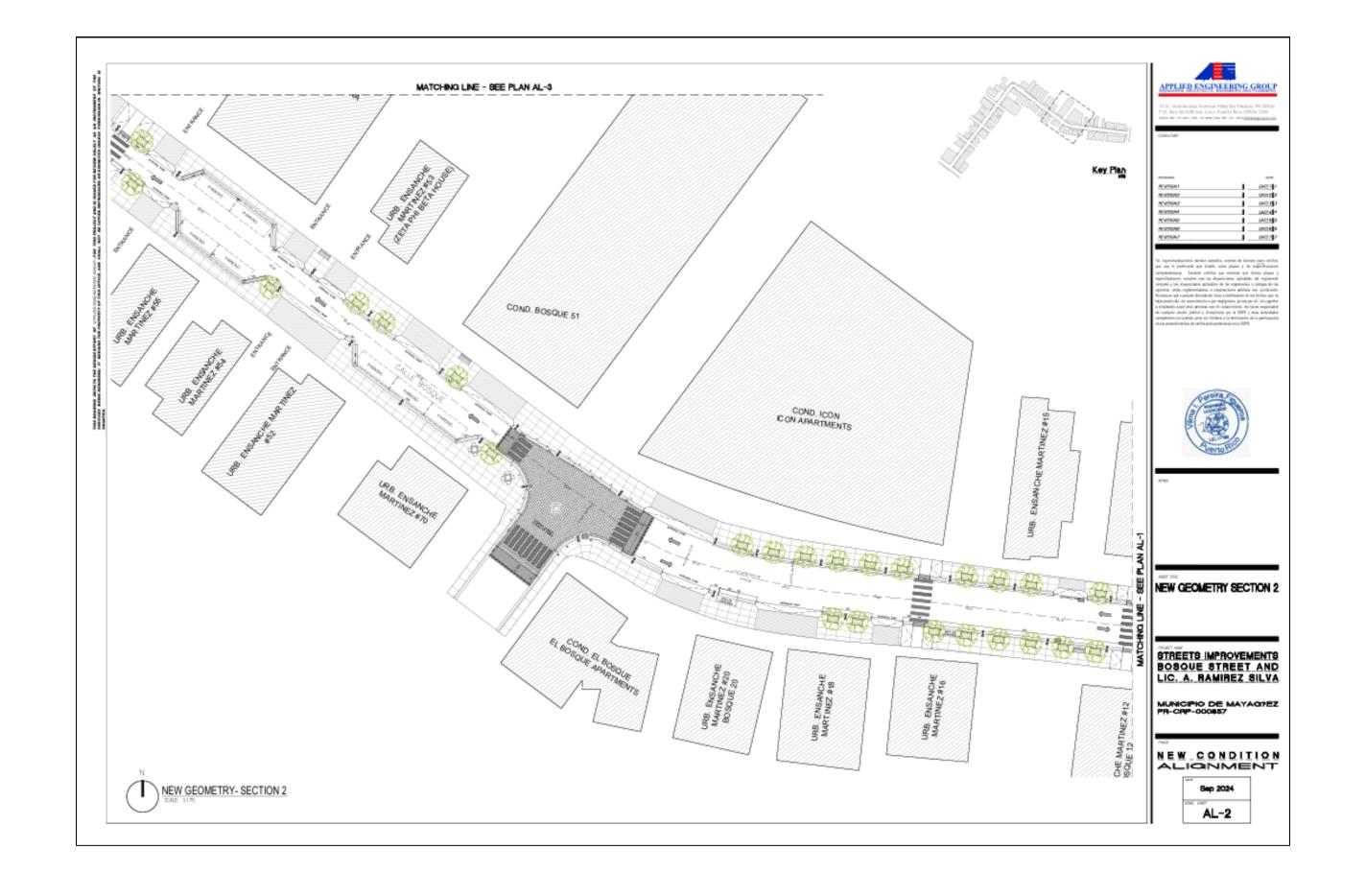
b. MINIMUM SIZE 3"
 c. 100% COMPACTION

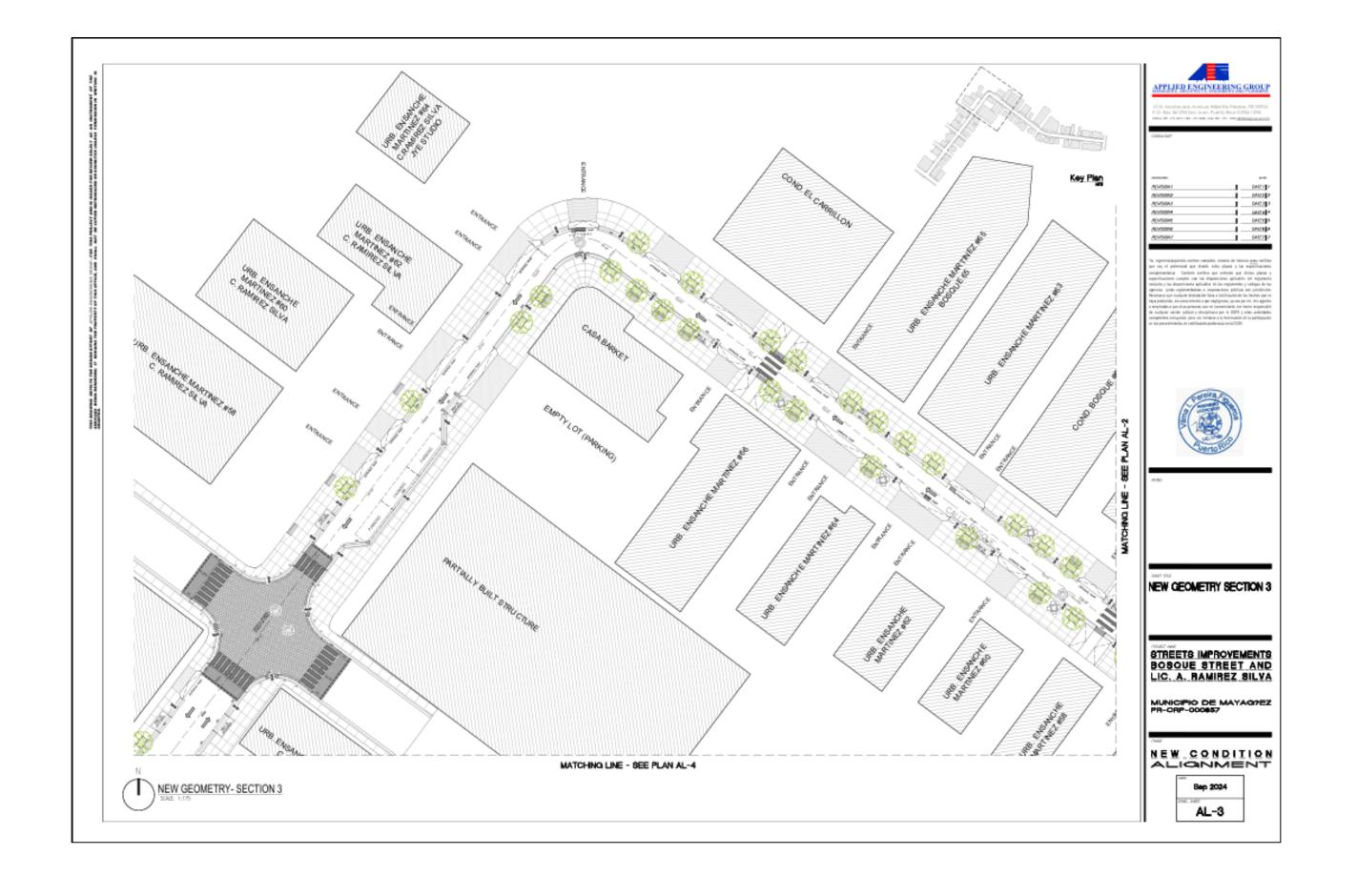
d. C.B.R. (MINIMO) 30%

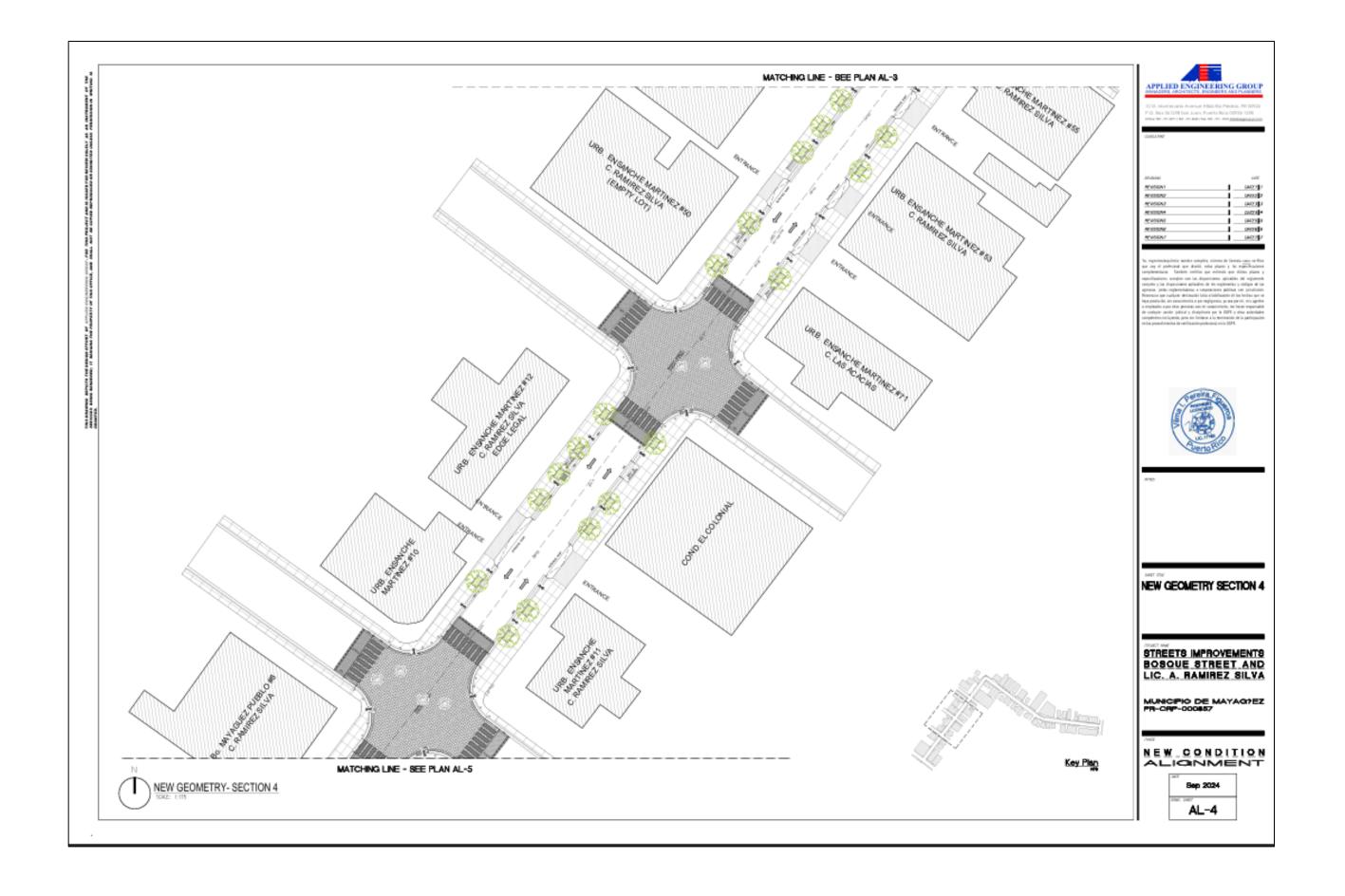
TYPICAL RAMP ISOMETRIC

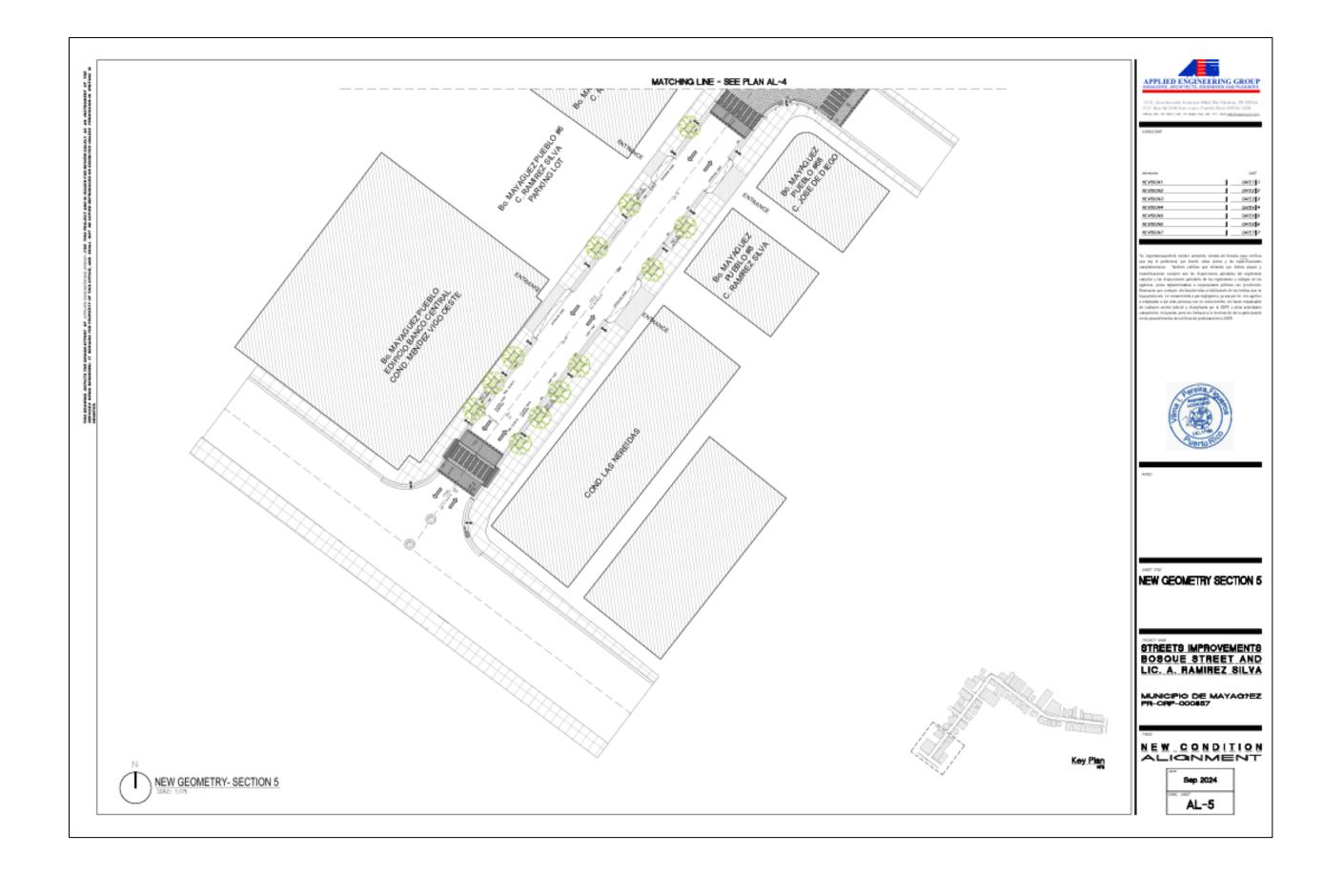


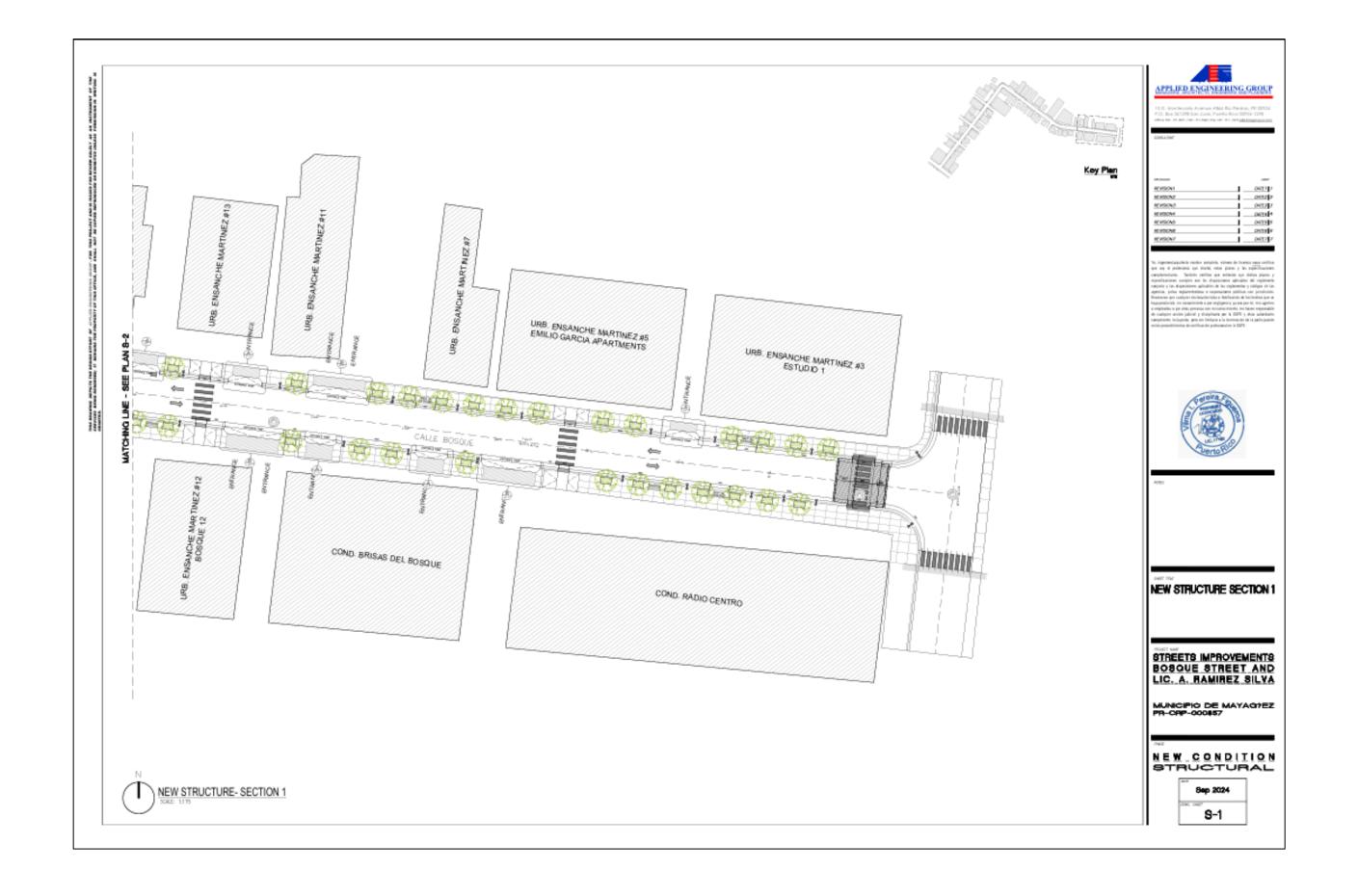


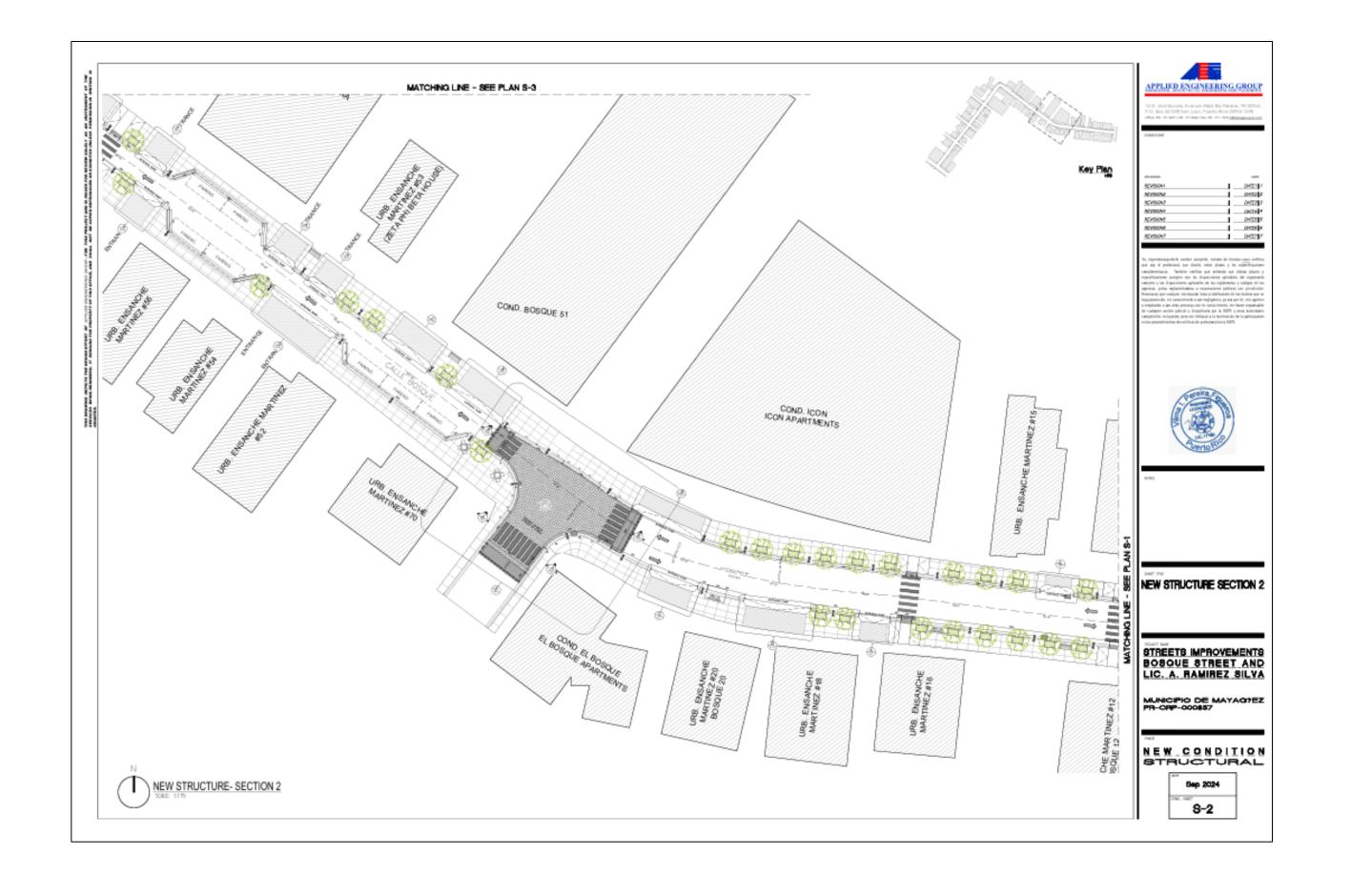


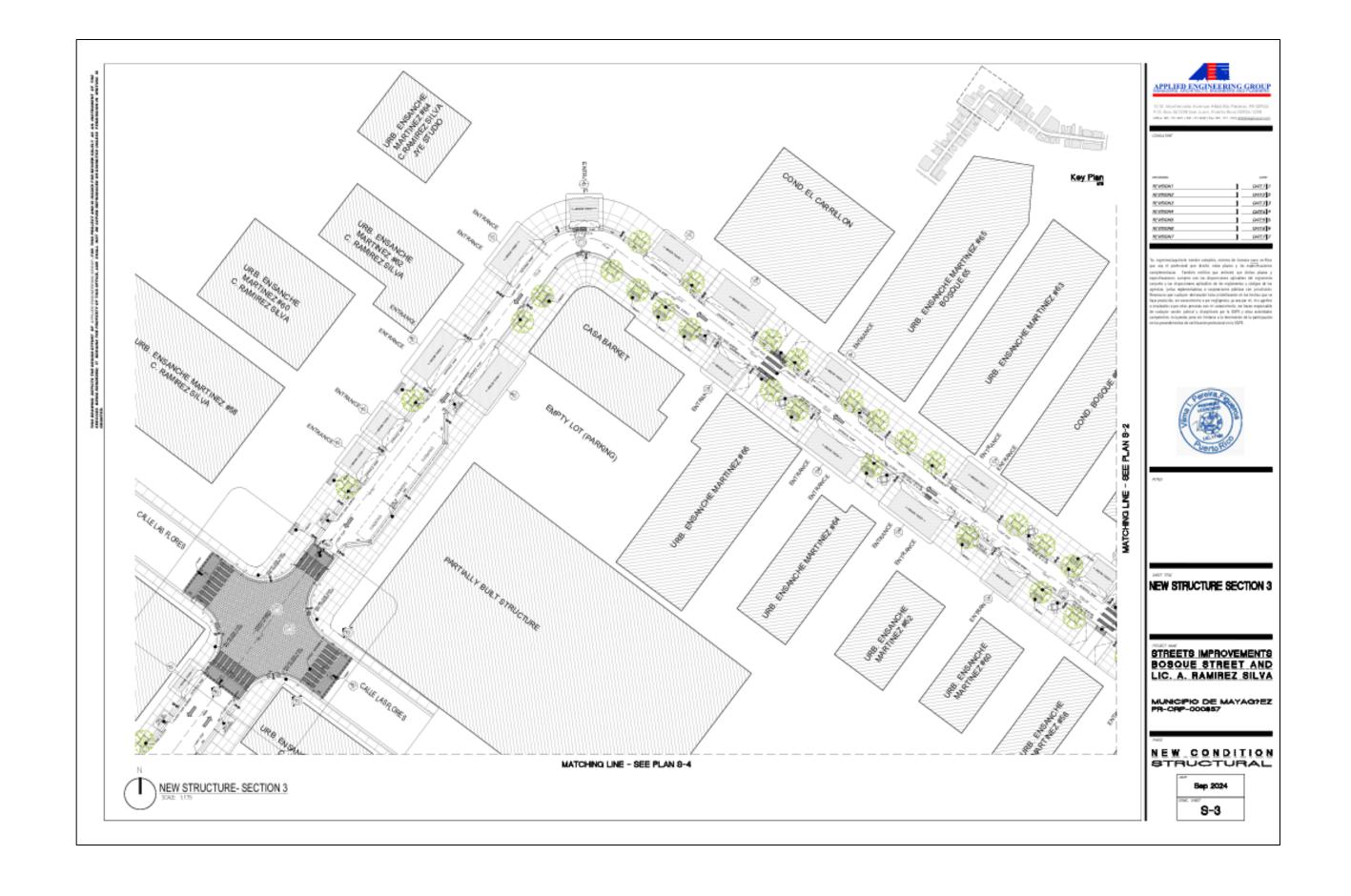




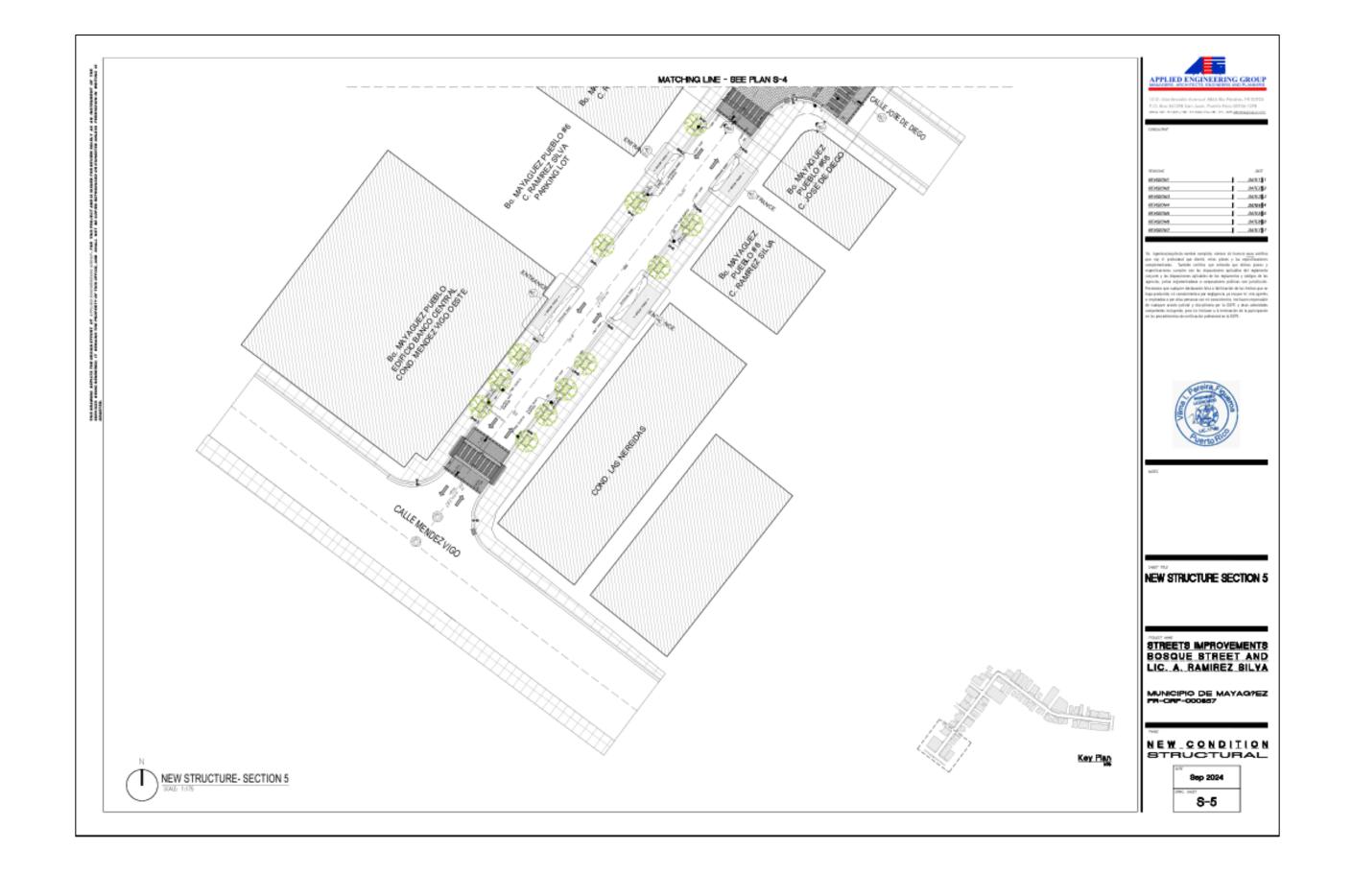


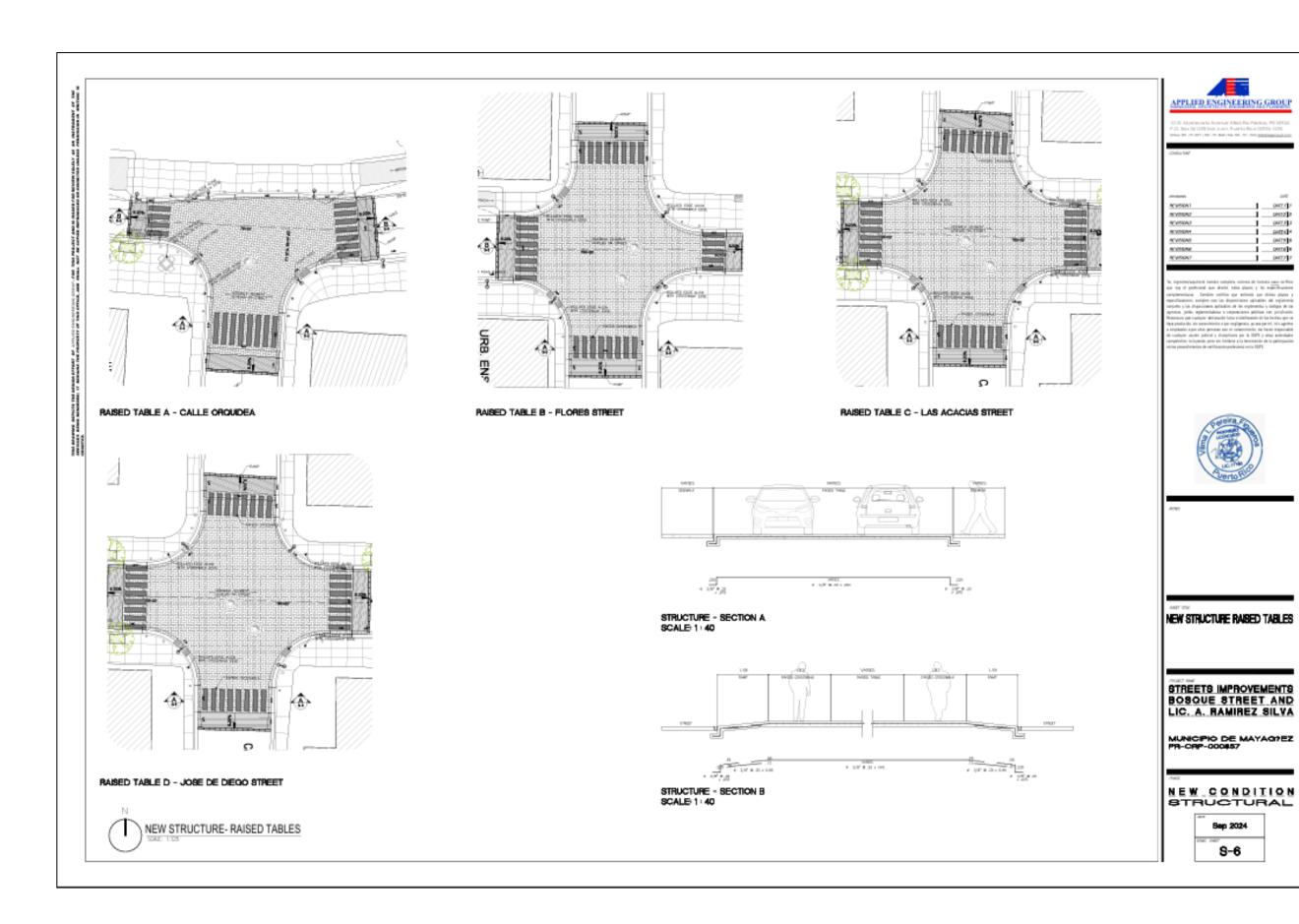


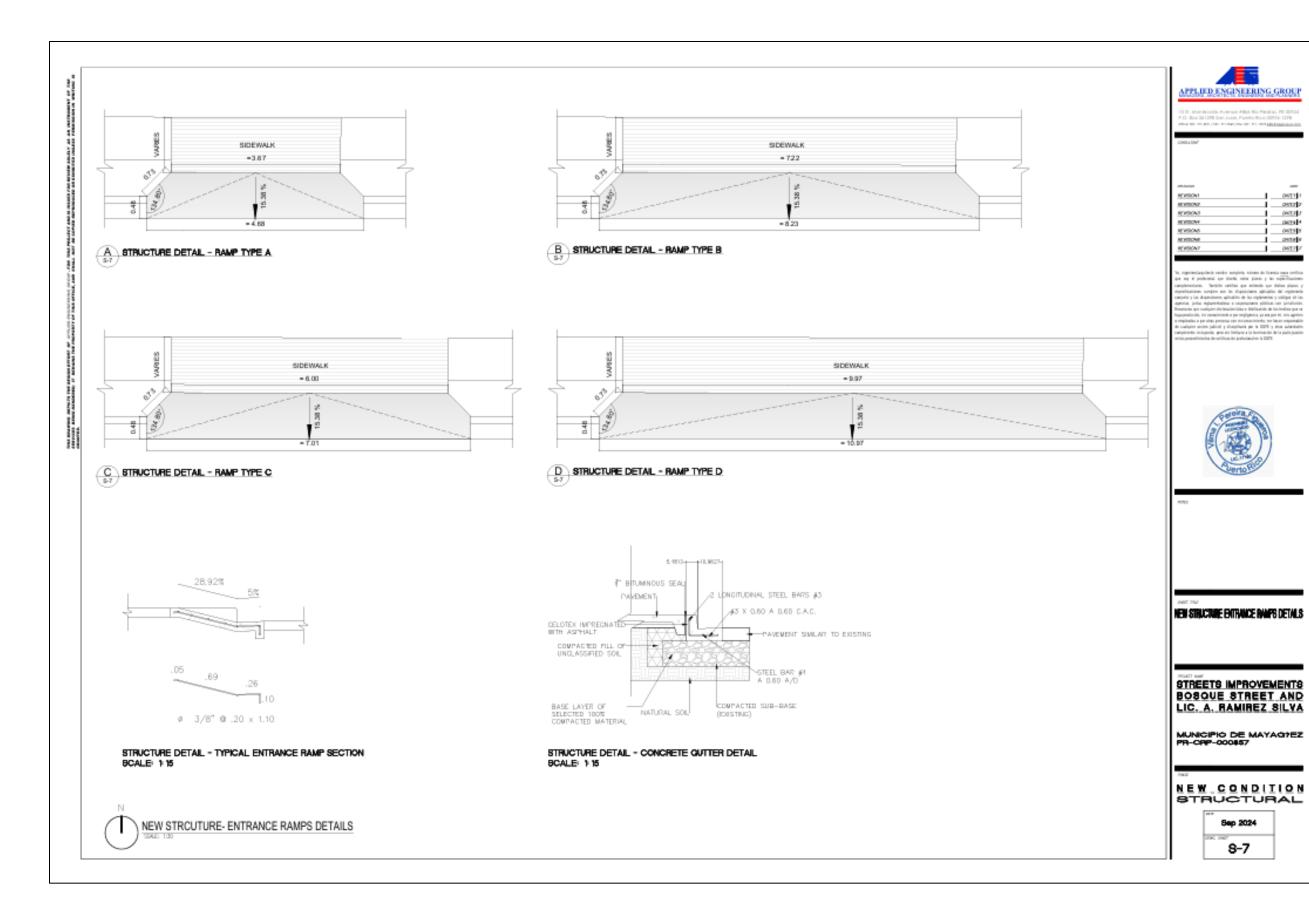




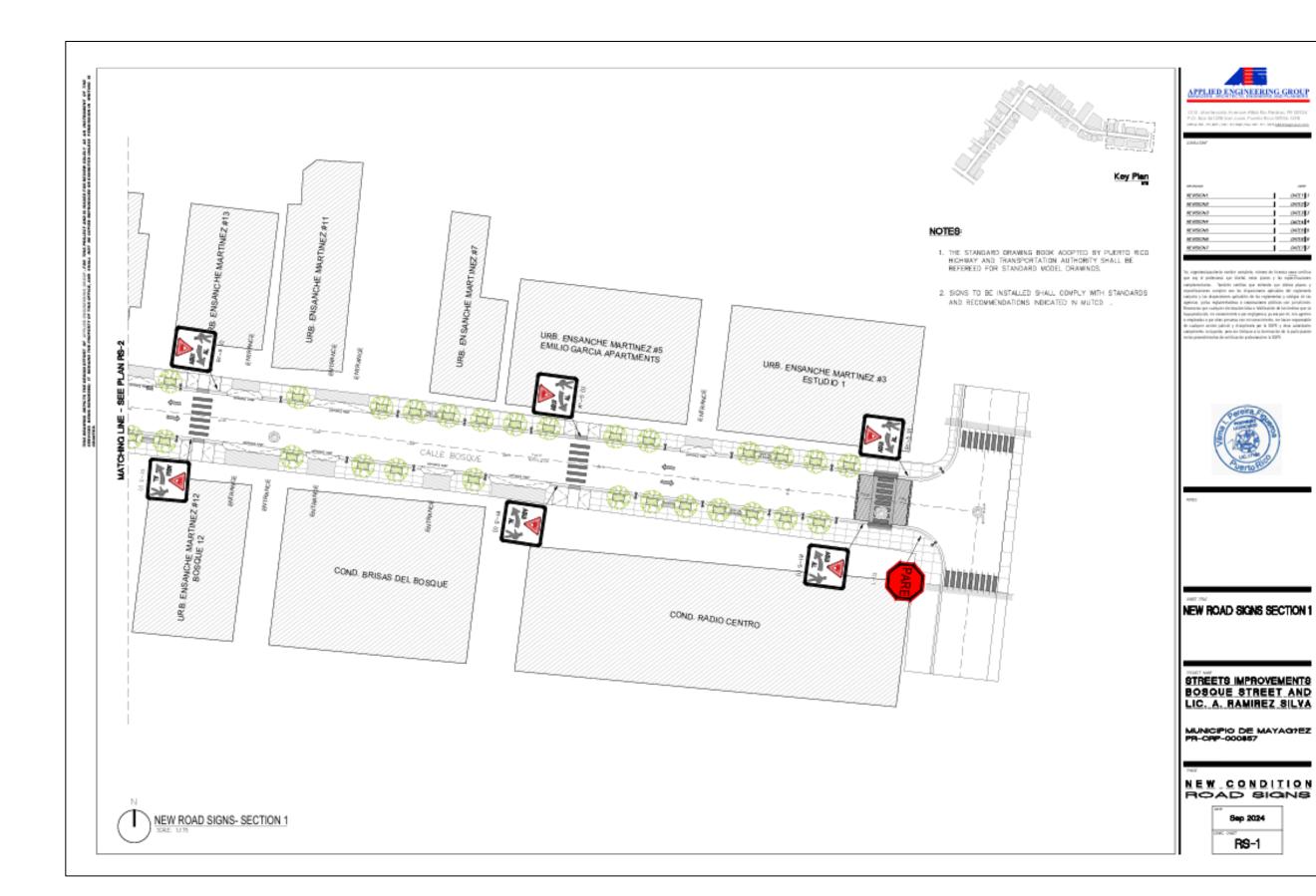




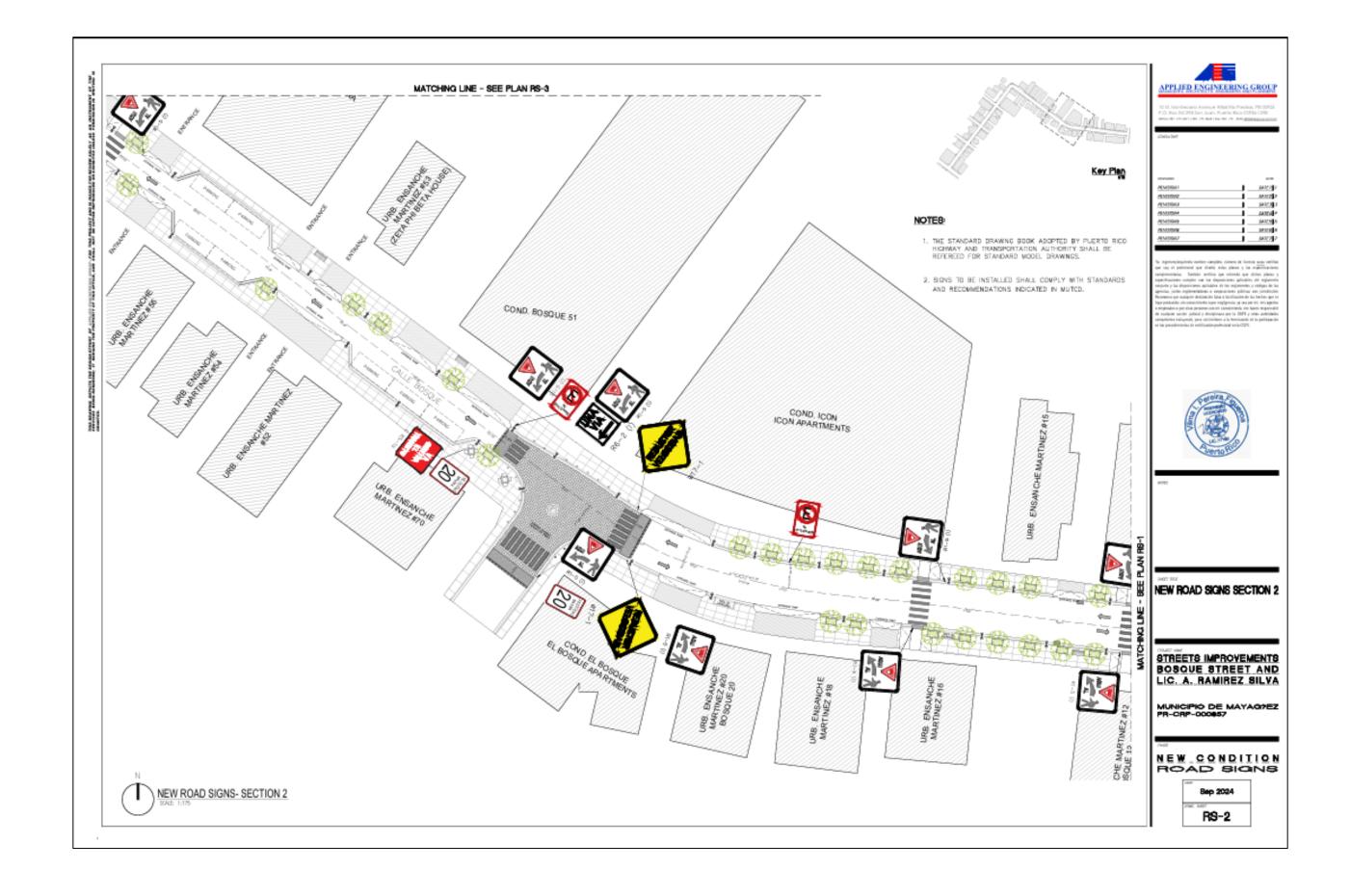




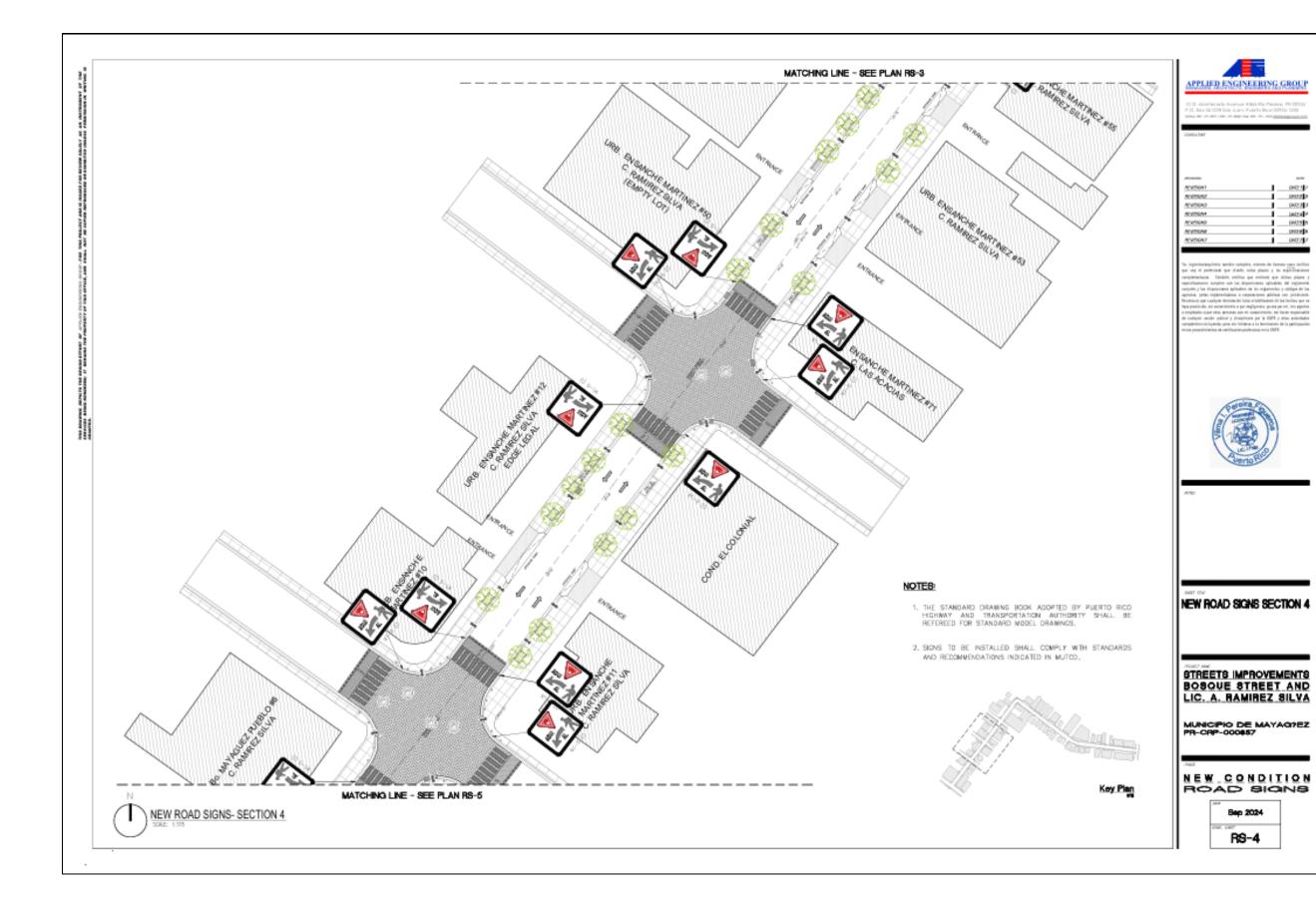
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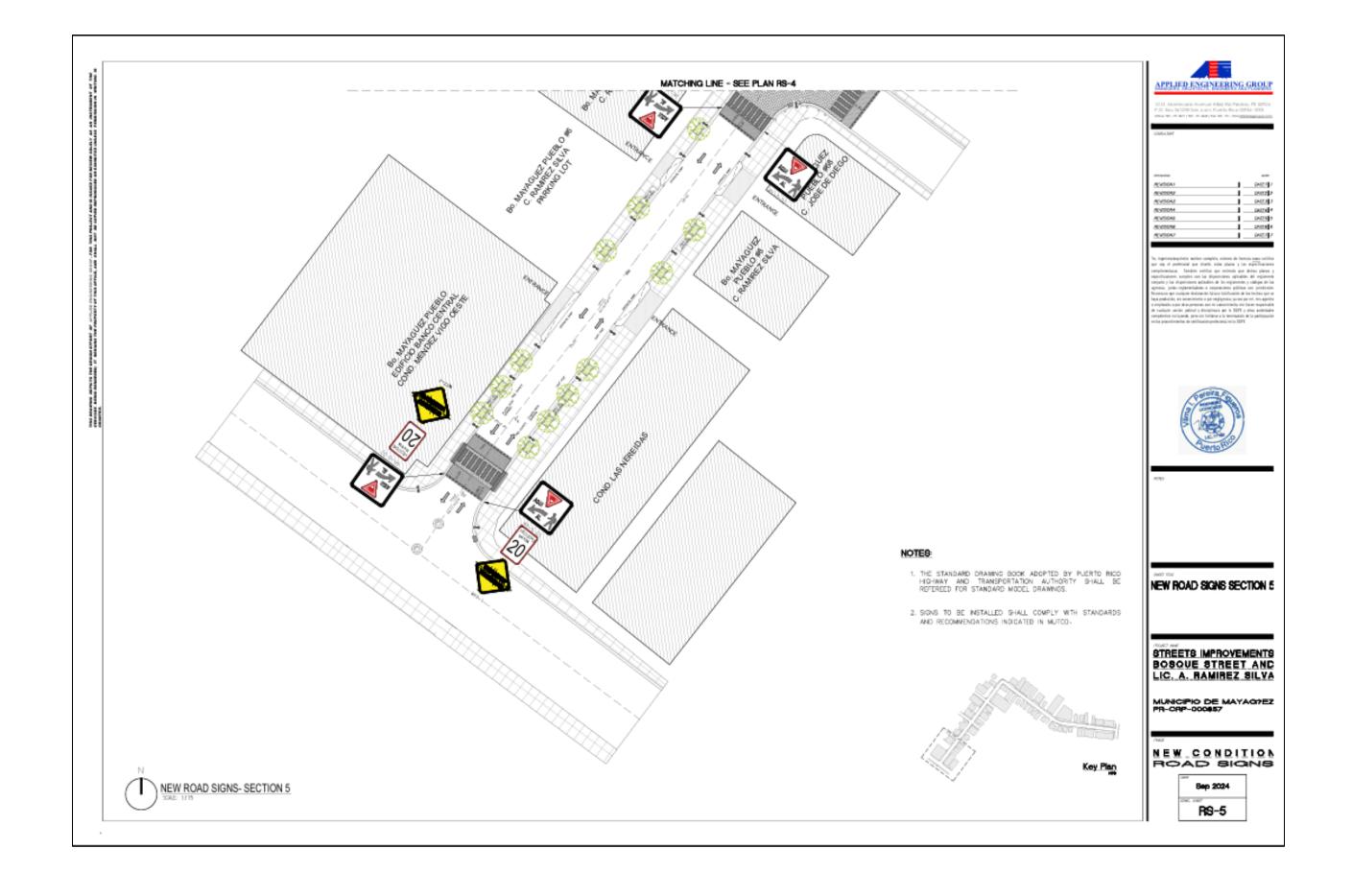


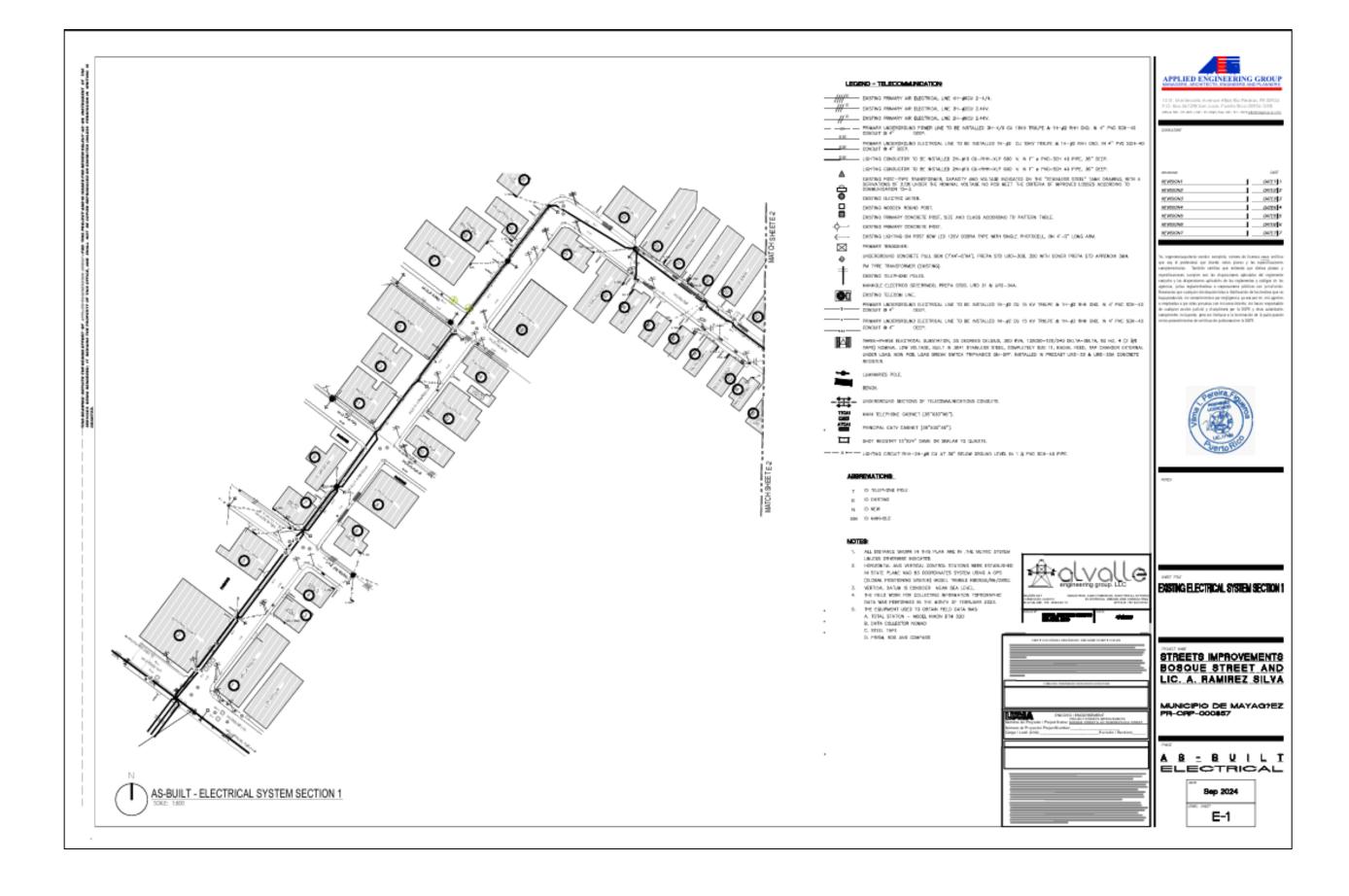
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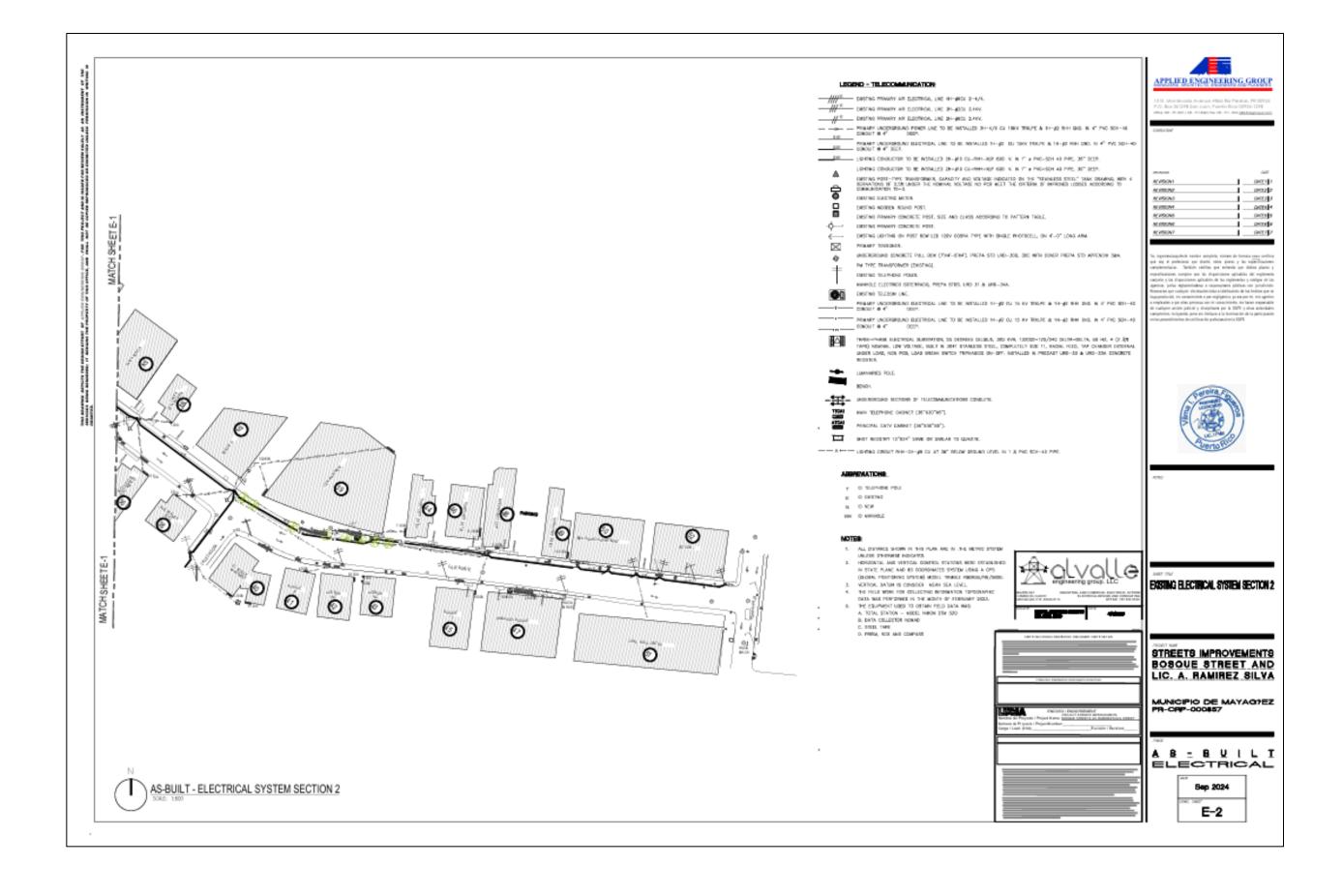


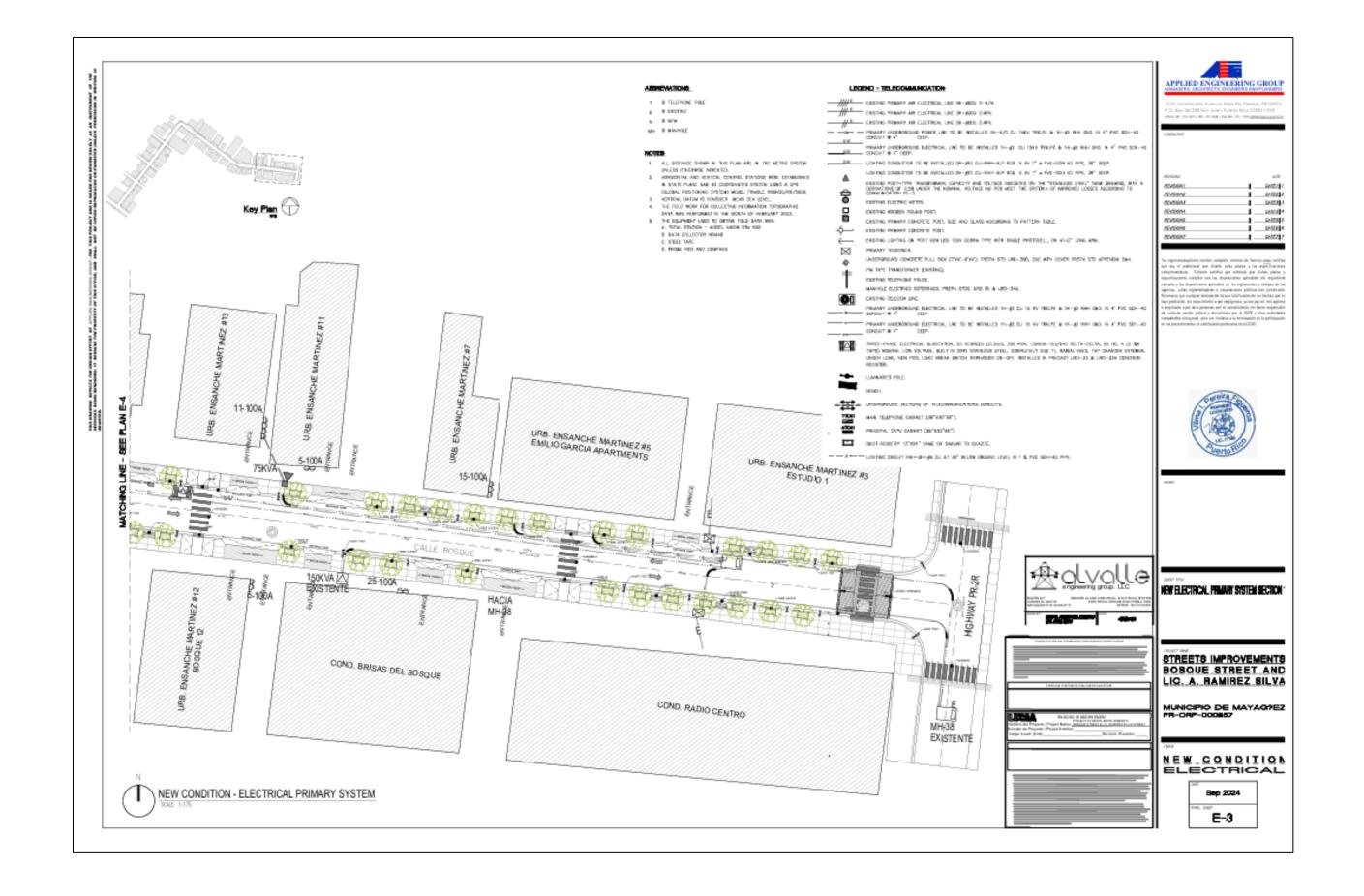


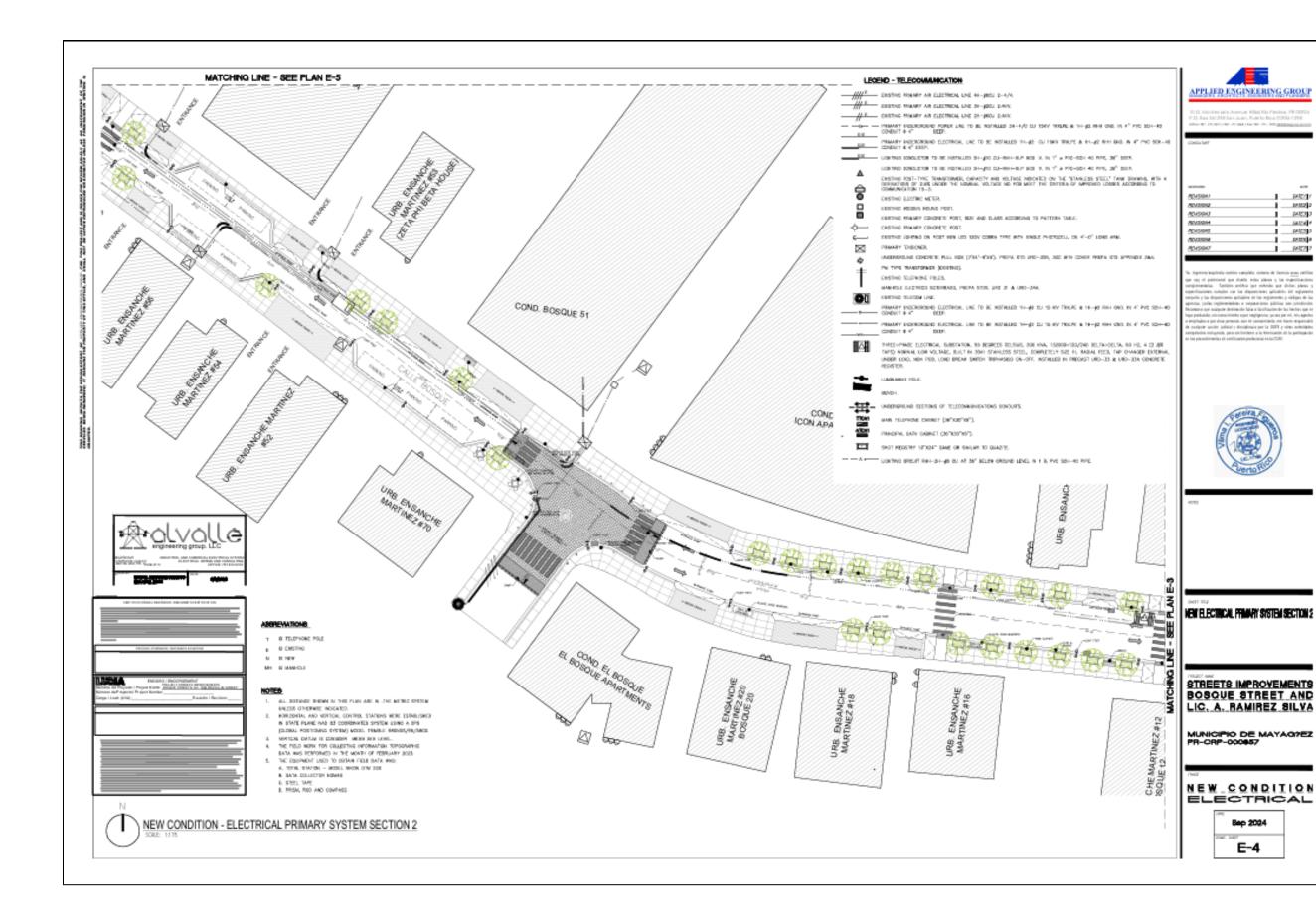


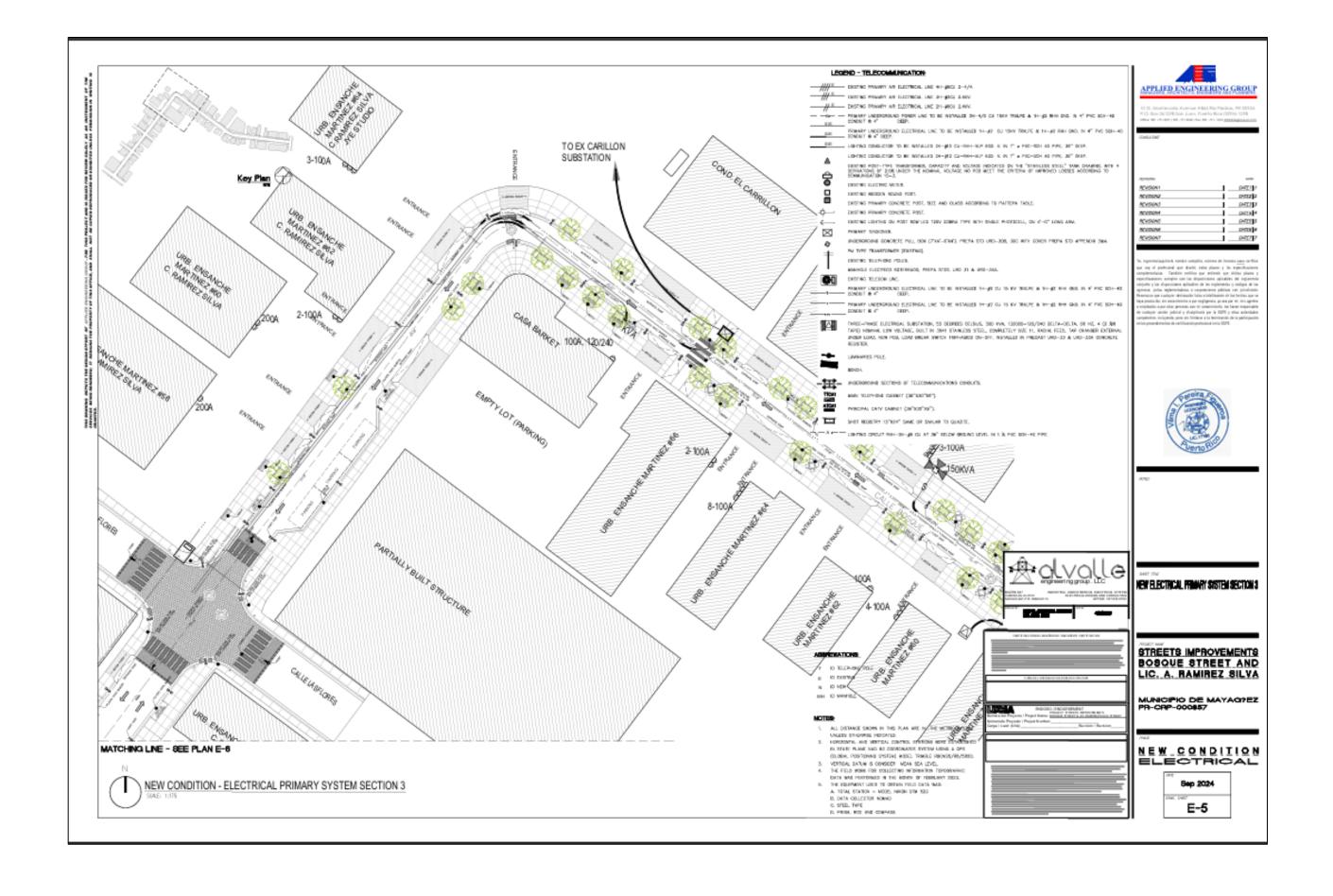


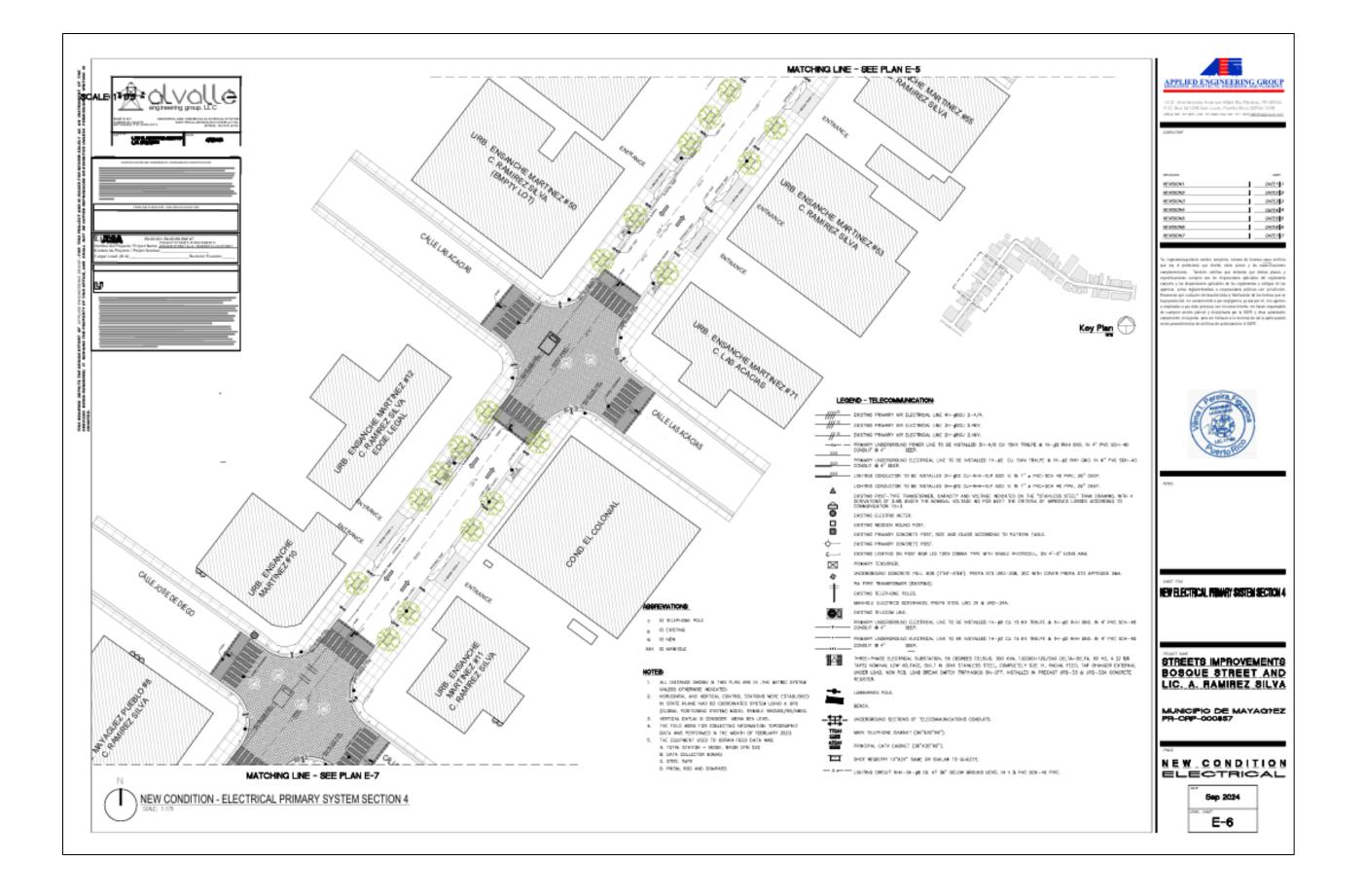


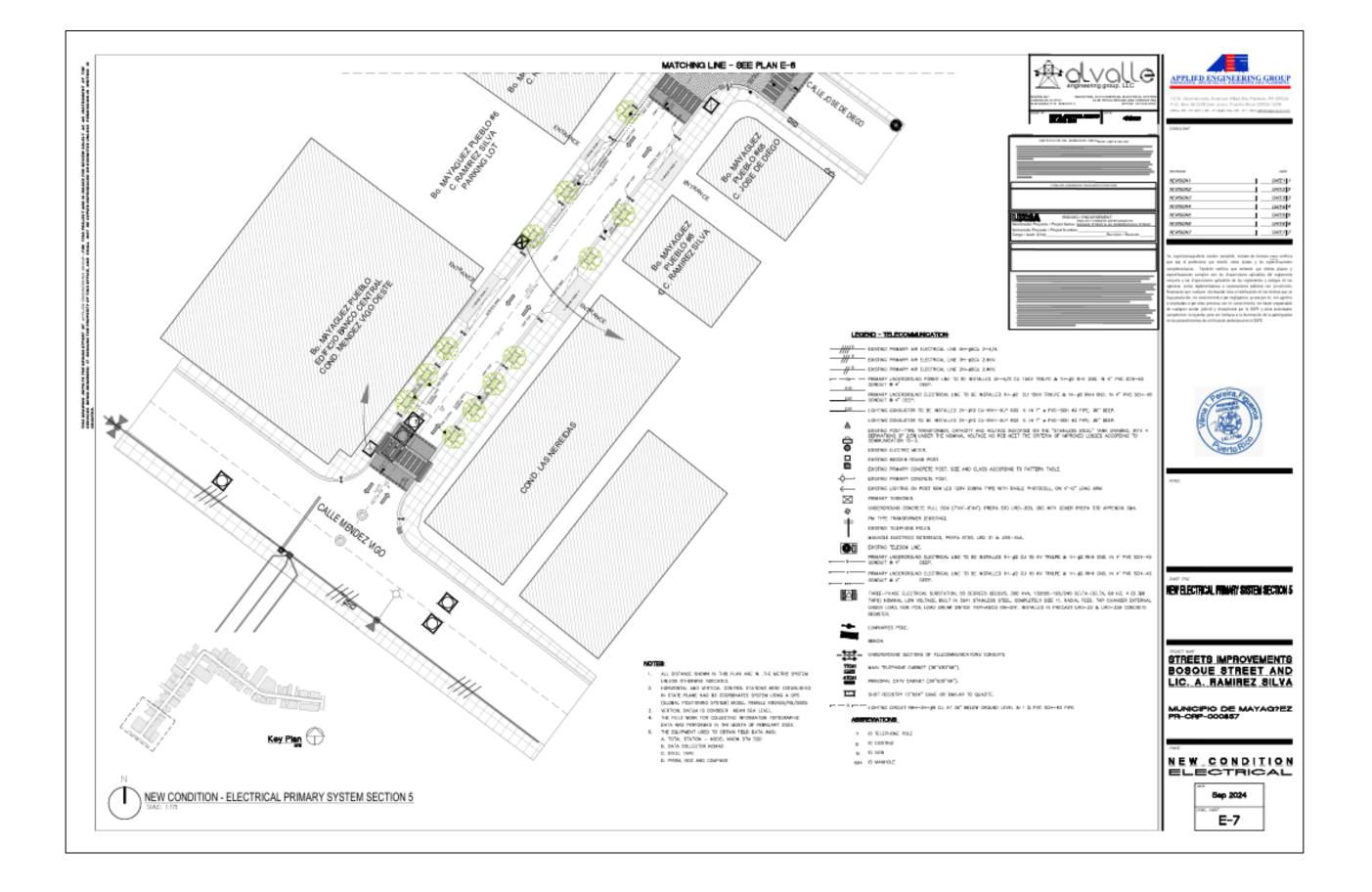


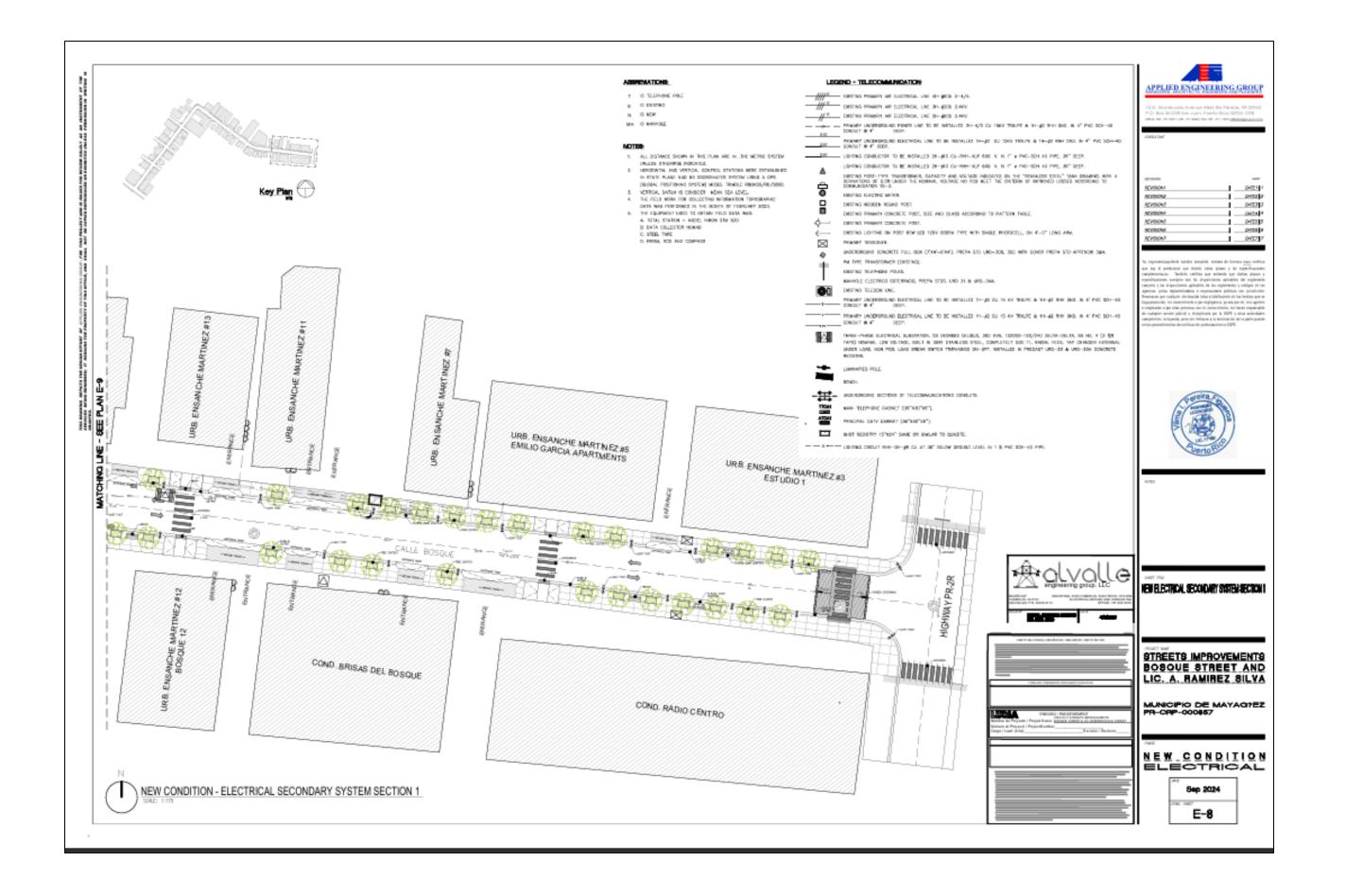


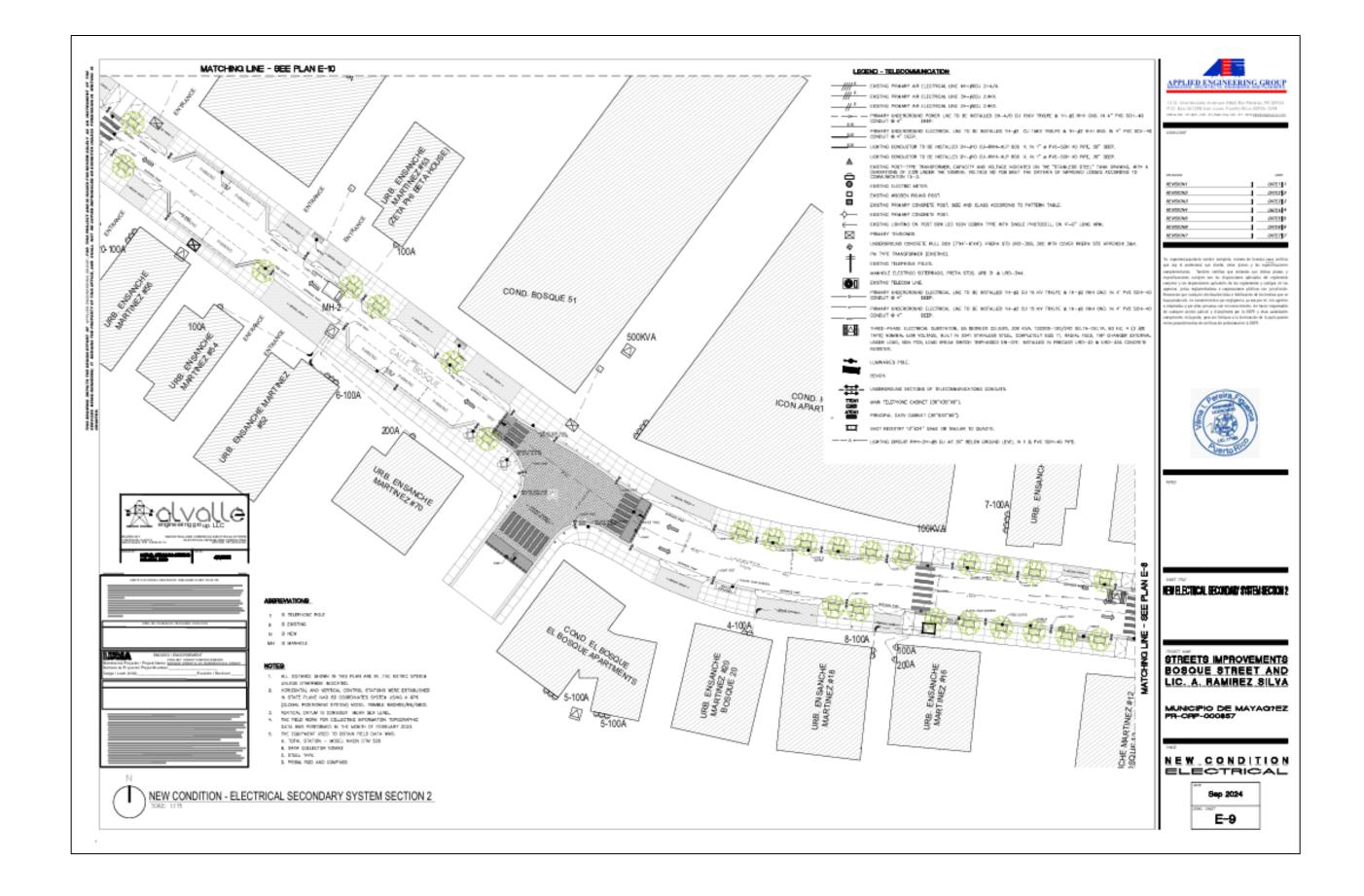


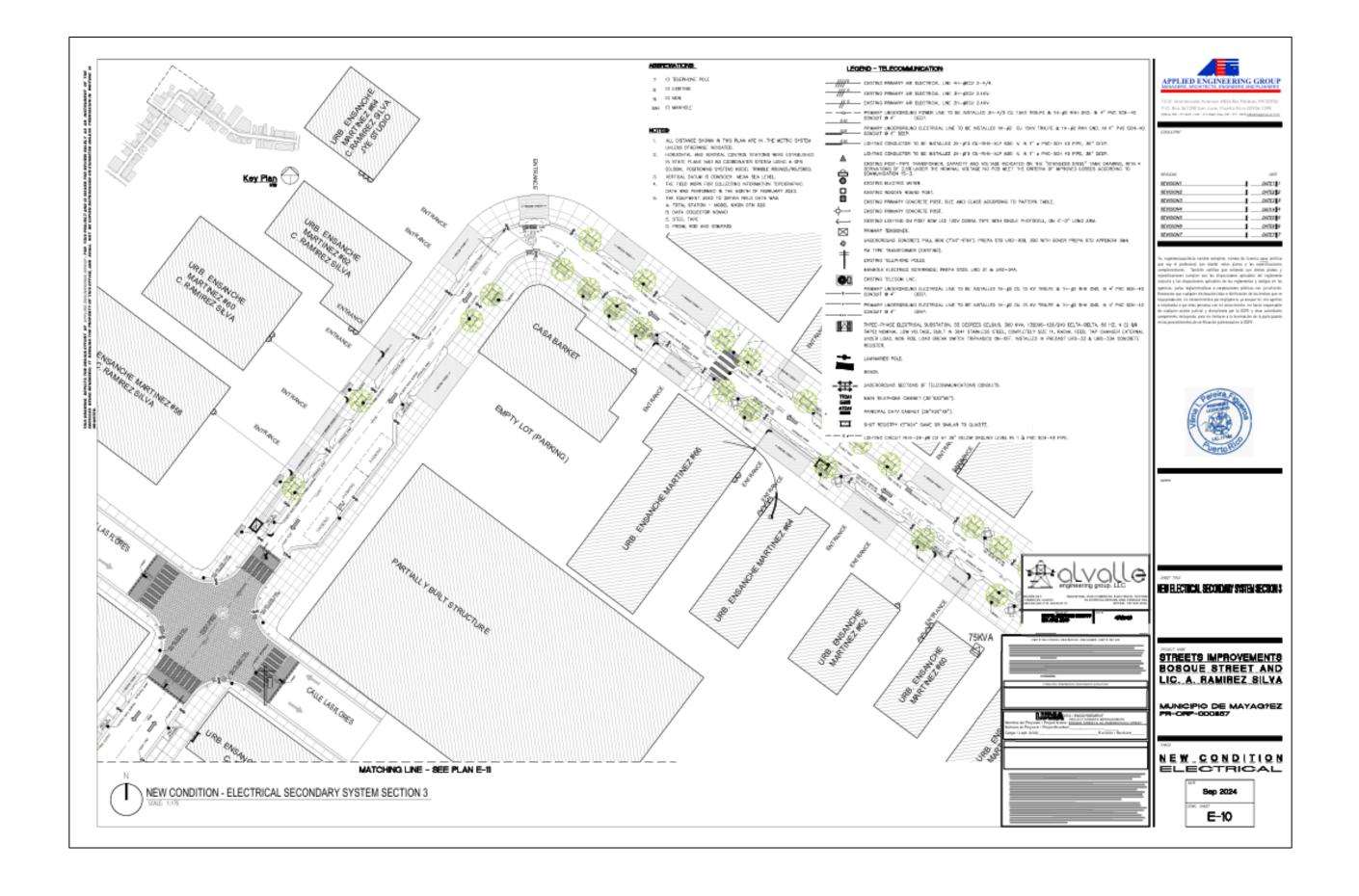


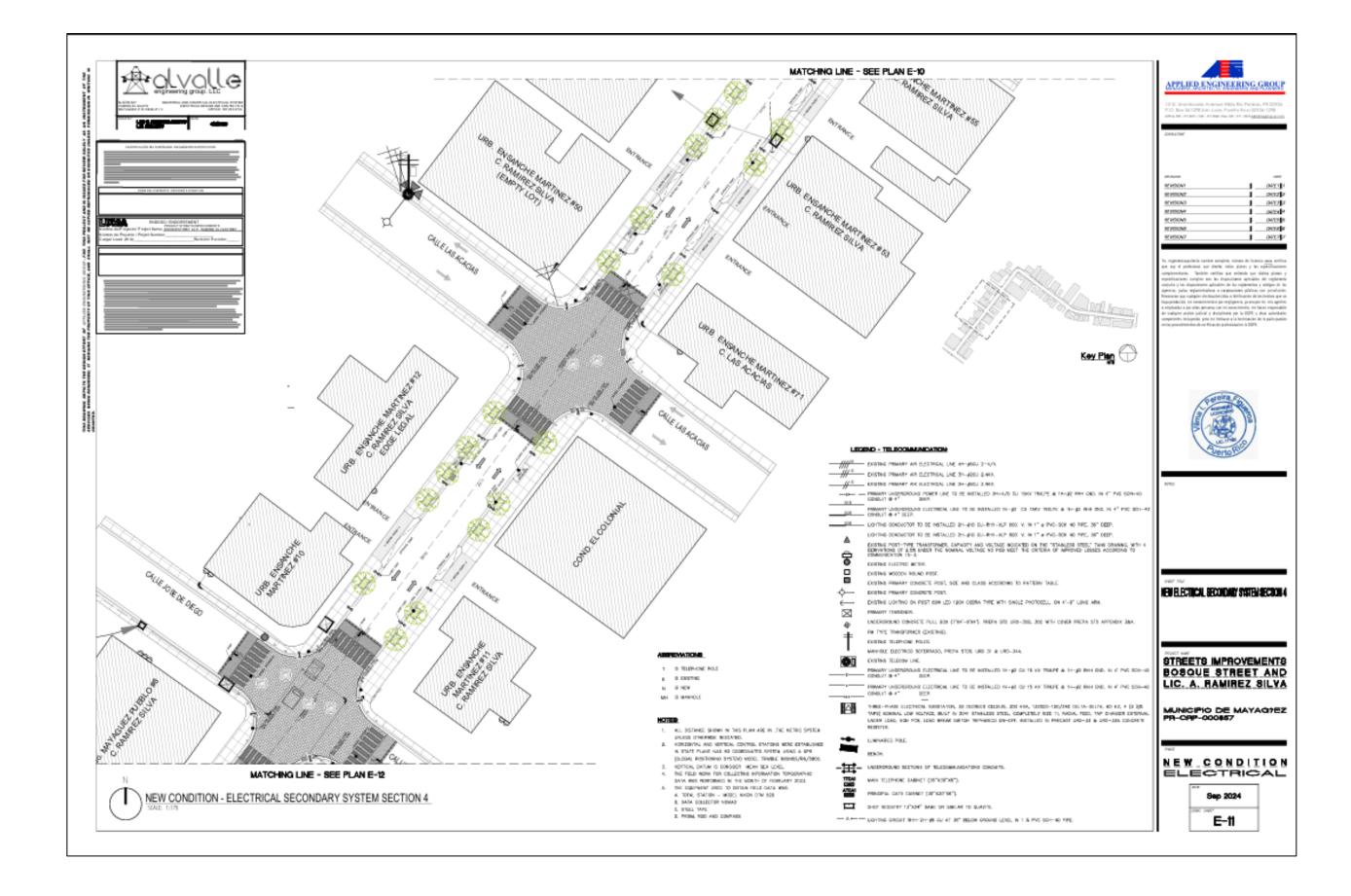


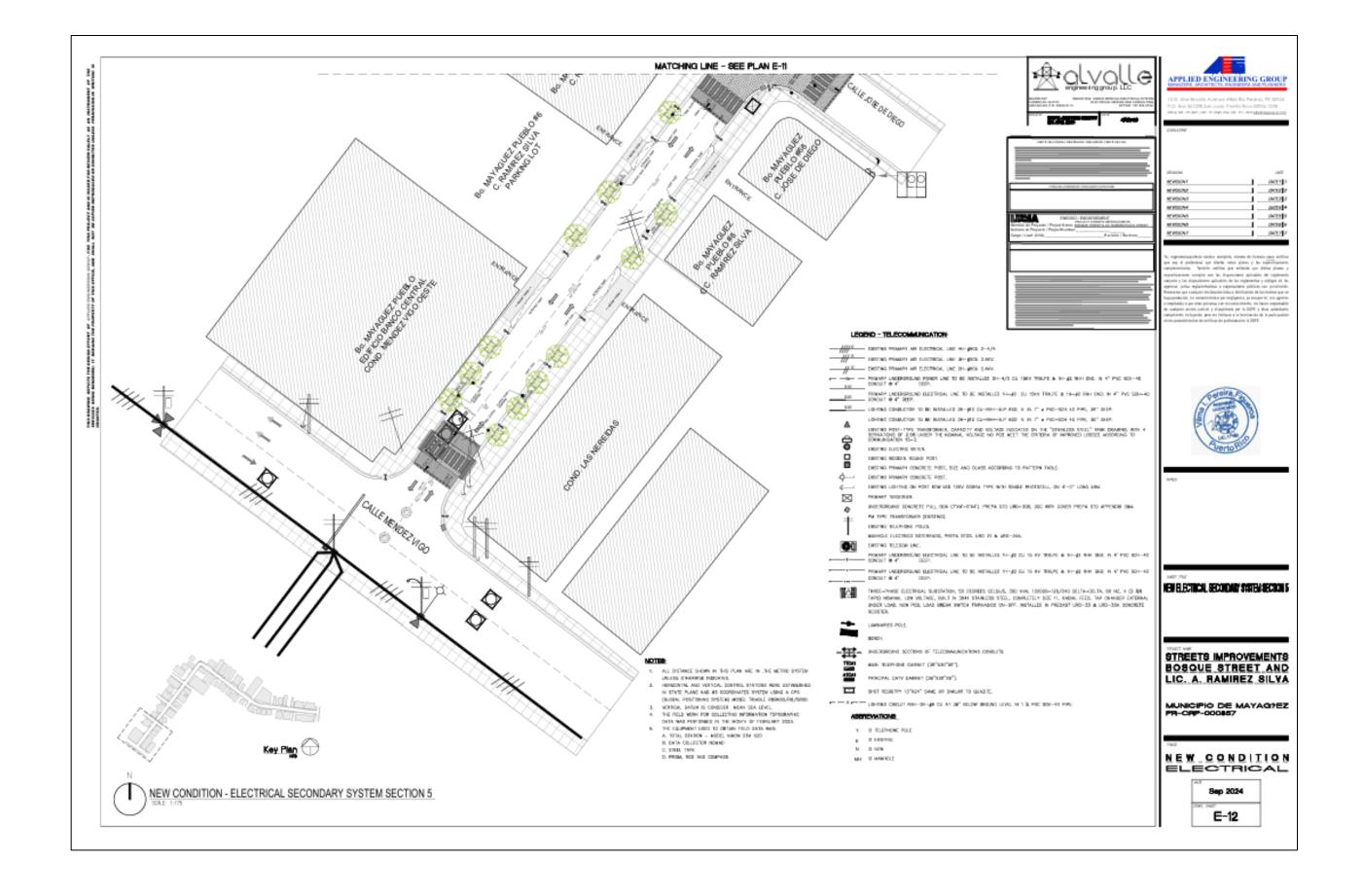


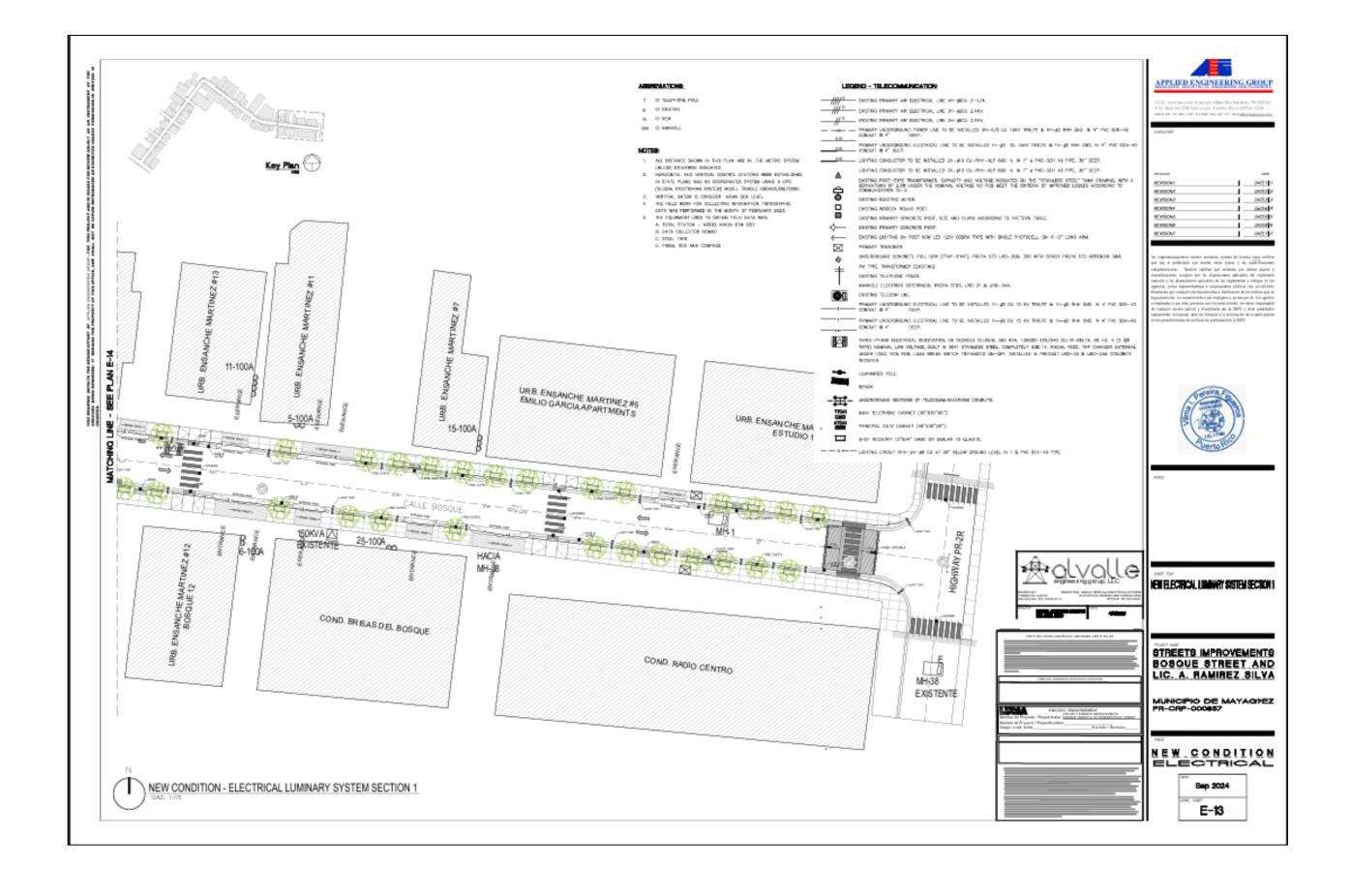


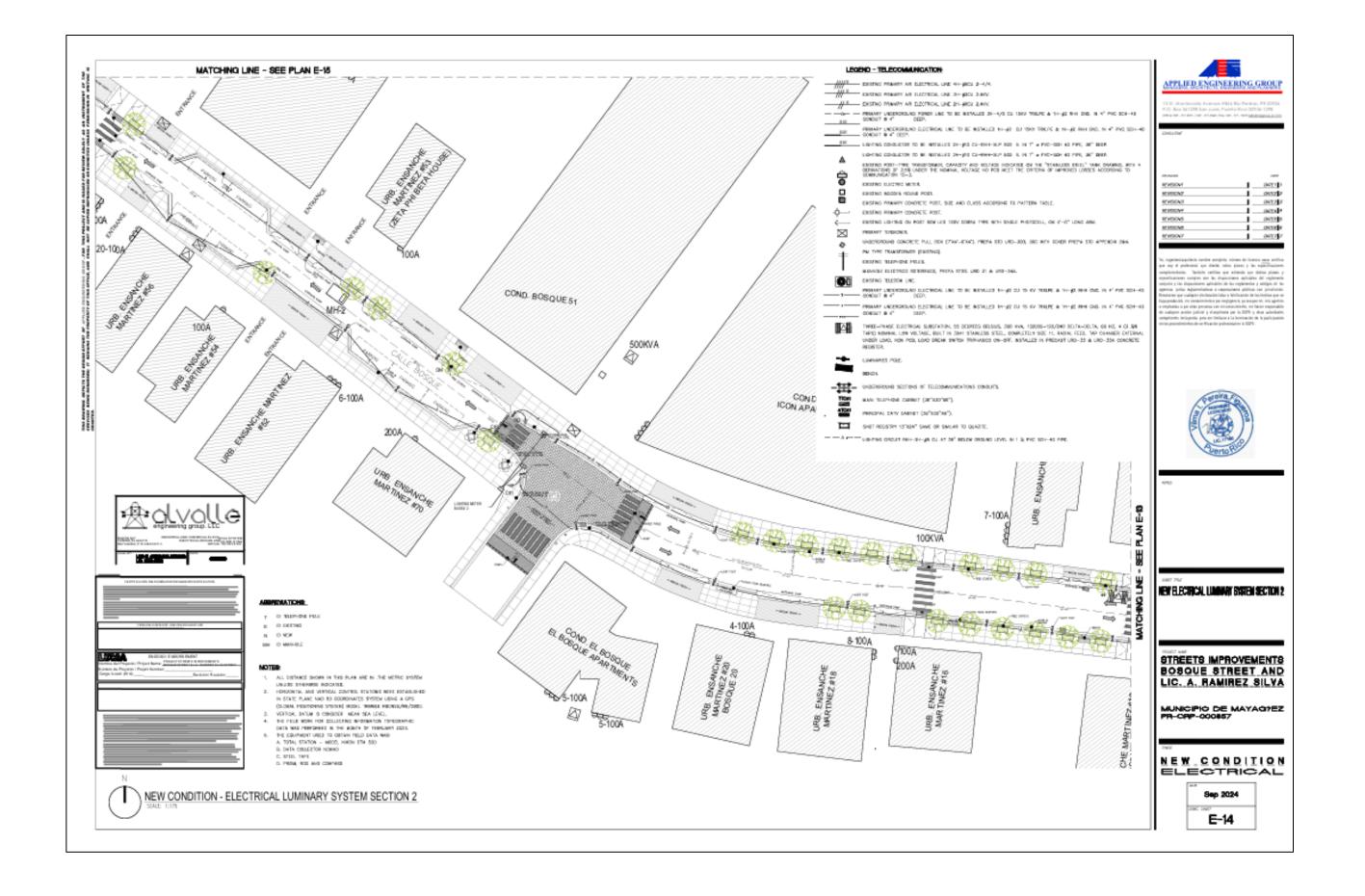


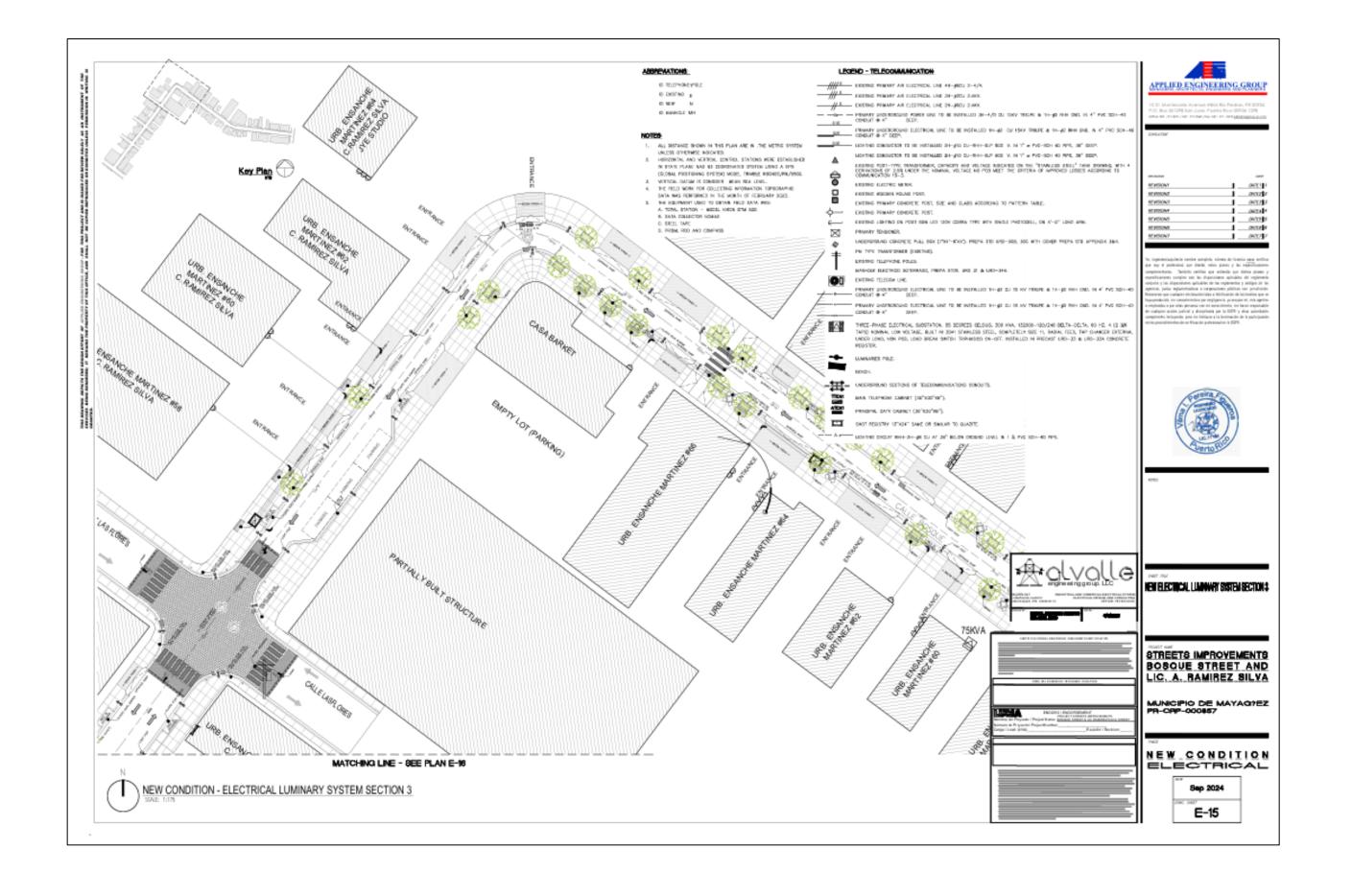


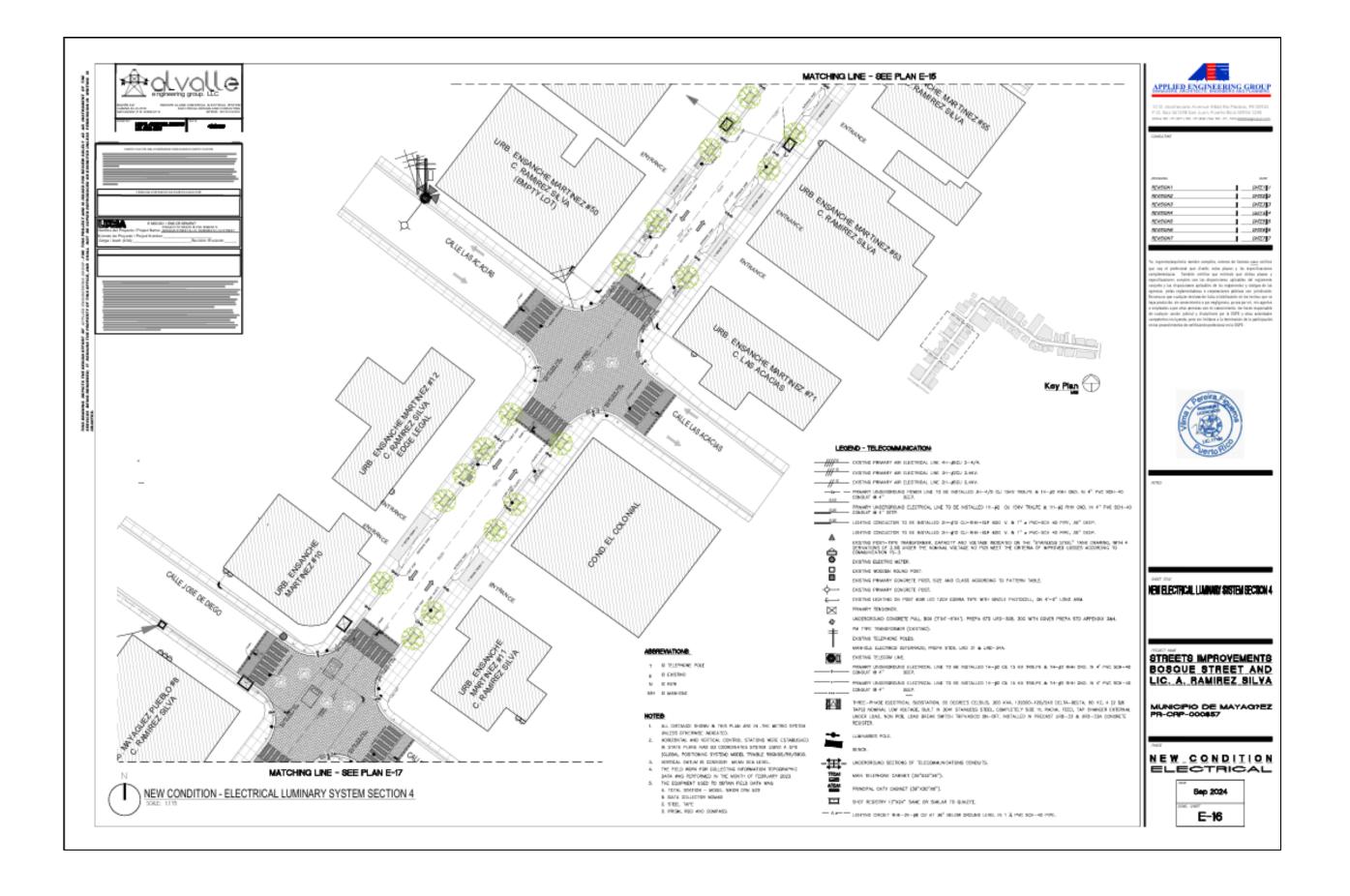


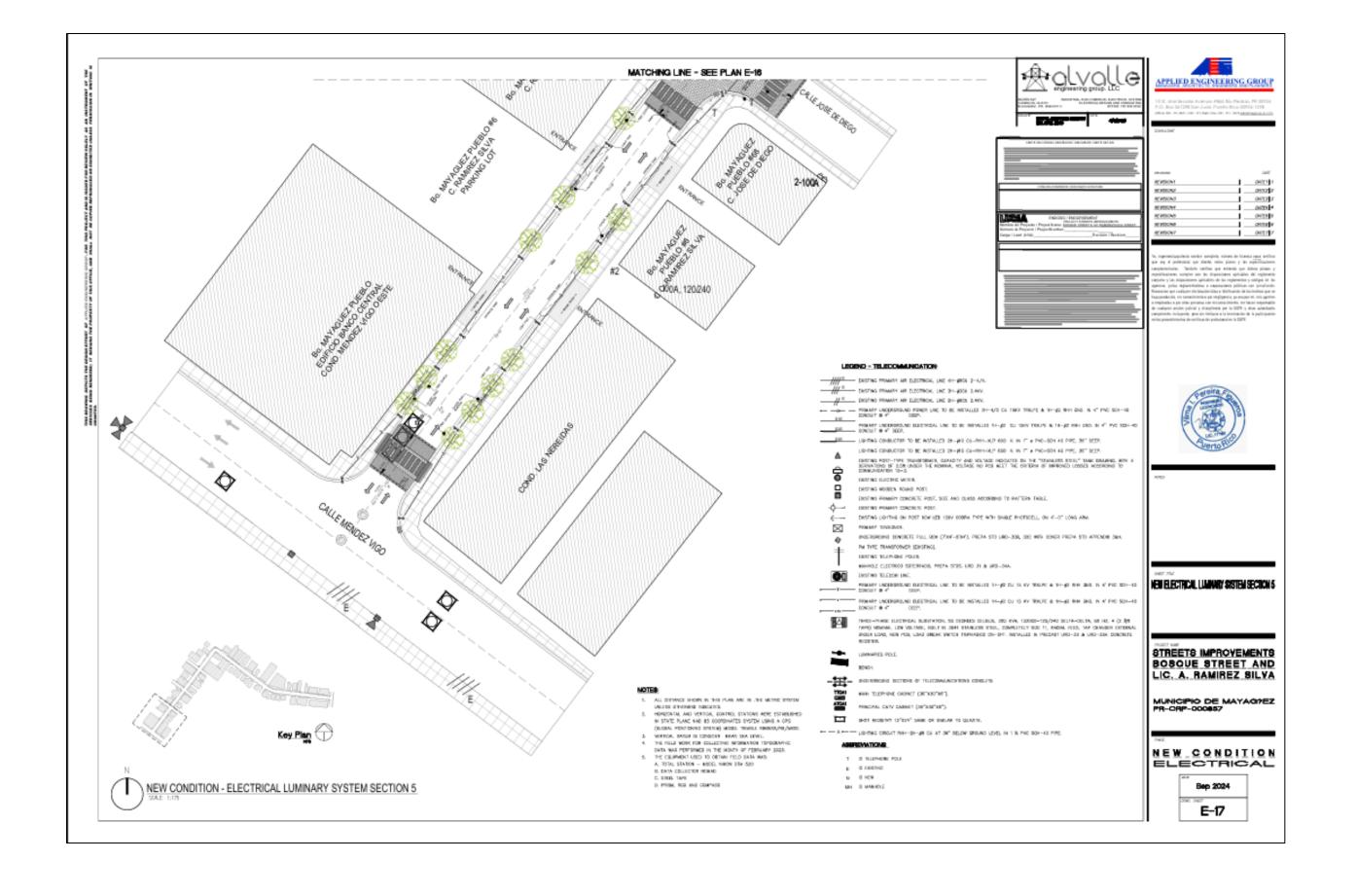


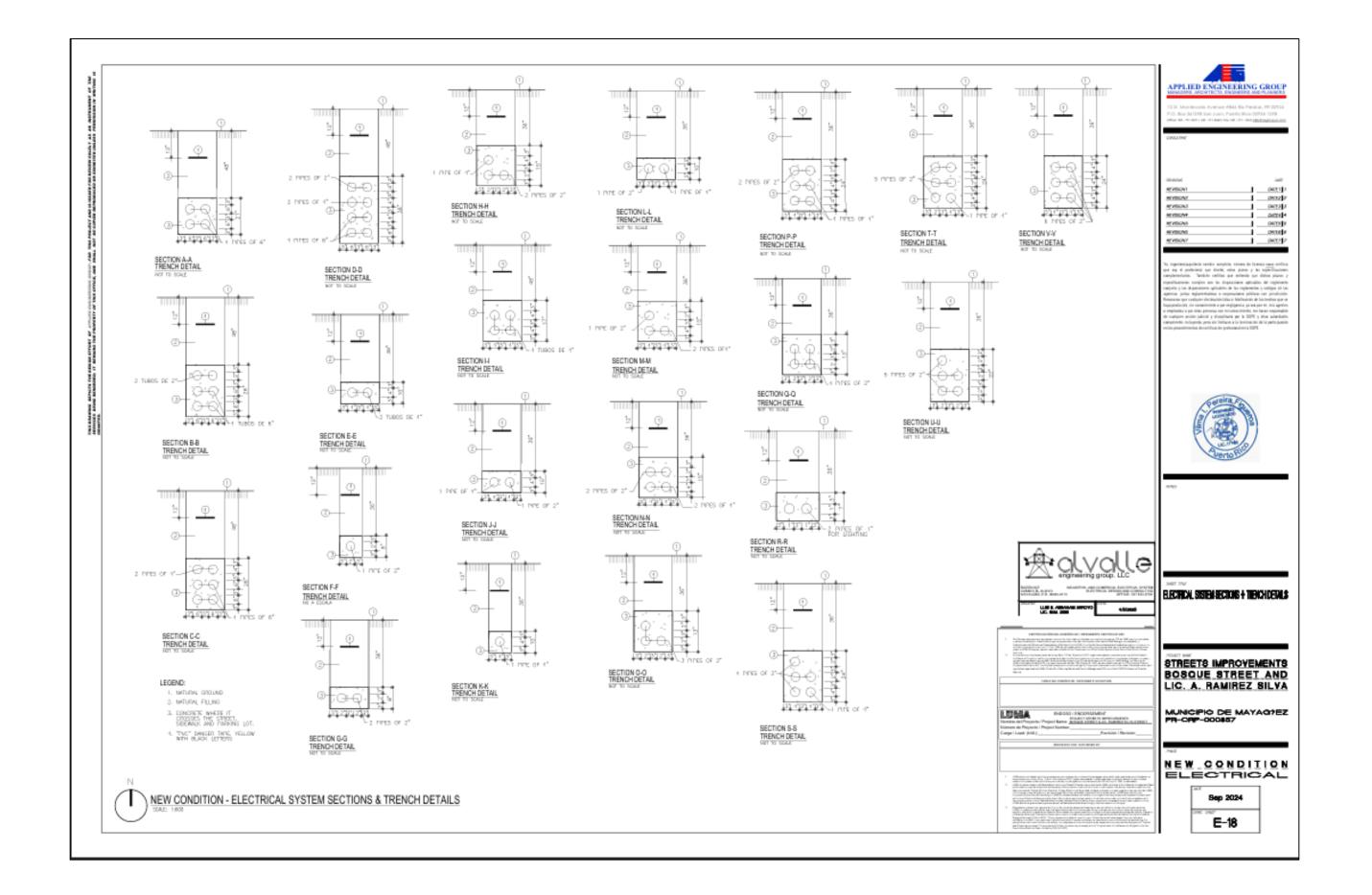










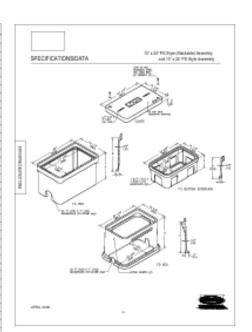




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NOTE 1 : THE CONTINUE WILL METRY THE CONSTITUTE OF THIS WORK BEFORE CARRYING OUT THE WORK THE FEEDER CONDUCT WHEN UNDERSTOODS AND RULE, WIND ENTOSED.

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2	6046	O"-01,W2-1,M16-2,W16-3,W16-4,UR0-1,URD-5	
3	6046	OP-01,M2-1,M16-2,M16-3,M16-1,URD-1,URD-5	
4	45HE	07-A5M2-1M16-2M16-3M16-4MRD-4MRD-5	
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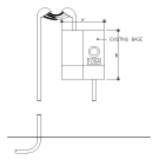


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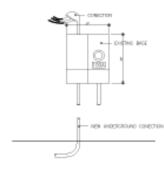
SHOT RECORD DETAIL (13" x 24")



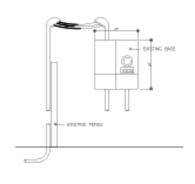




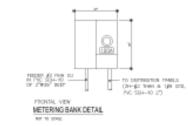
⑤ DETAIL OF EXISTING UNDERGROUND BASE CONECTION

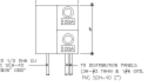


AIR CONDULE - CONDULE CONNECTION DETAIL

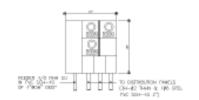


NEW METERING BANK DETAIL





METERING BANK DETAIL



METERING BANK DETAIL



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ELECTRICAL SISTEM SECTIONS + TRENCHIDETALS

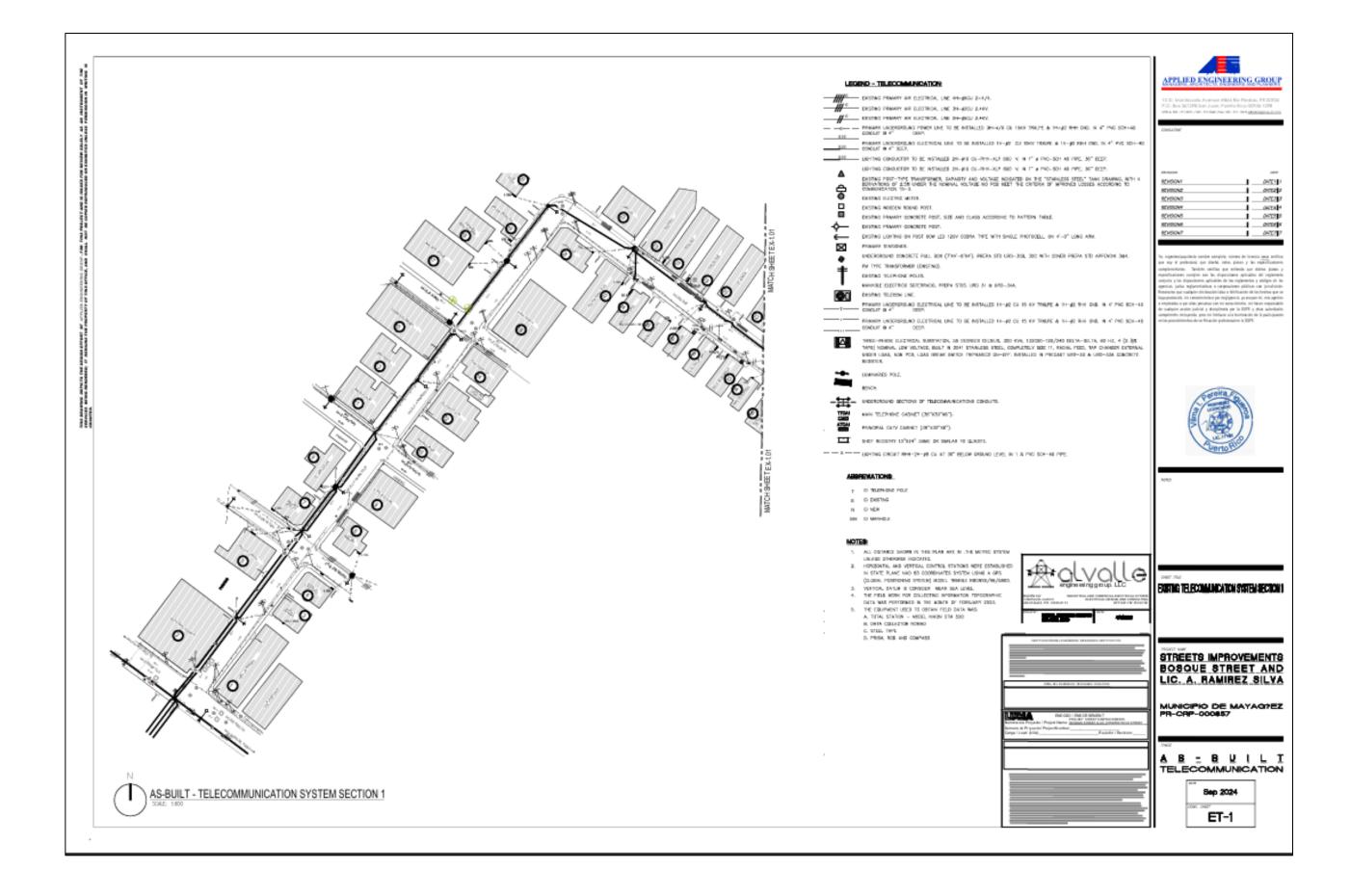
STREETS IMPROVEMENTS BOSQUE STREET AND LIC. A. RAMIREZ SILVA

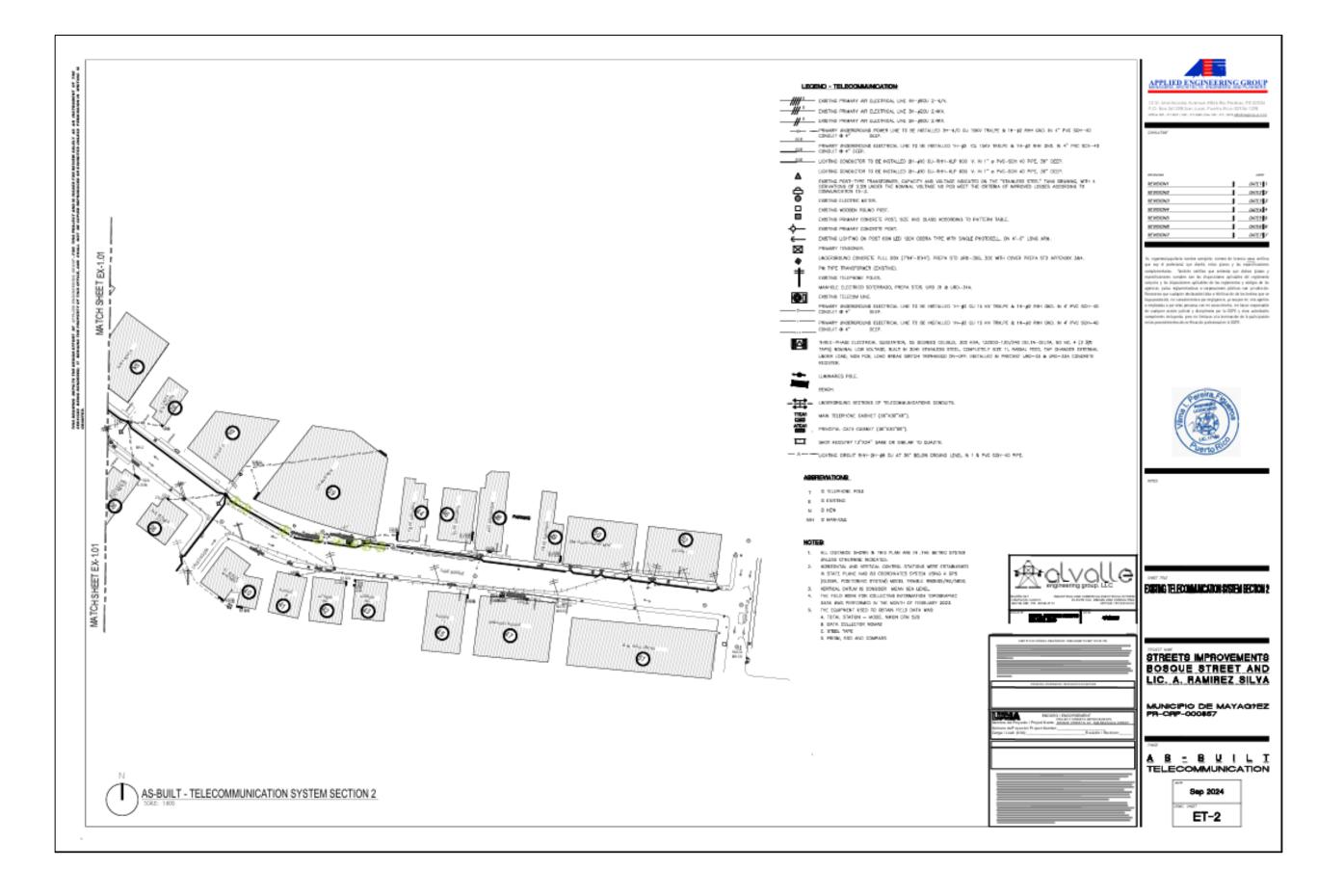
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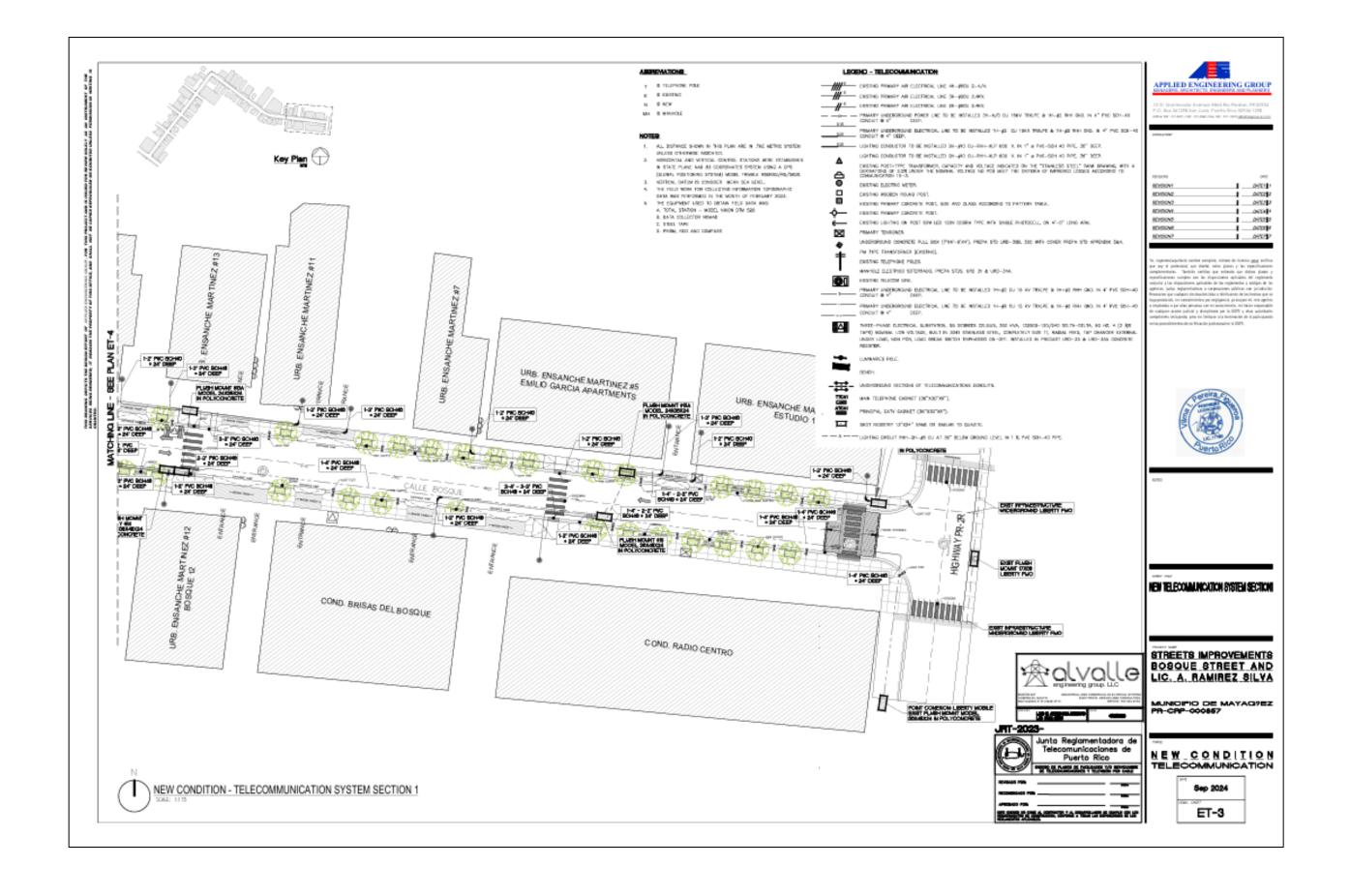
NEW_CONDITION ELECTRICAL

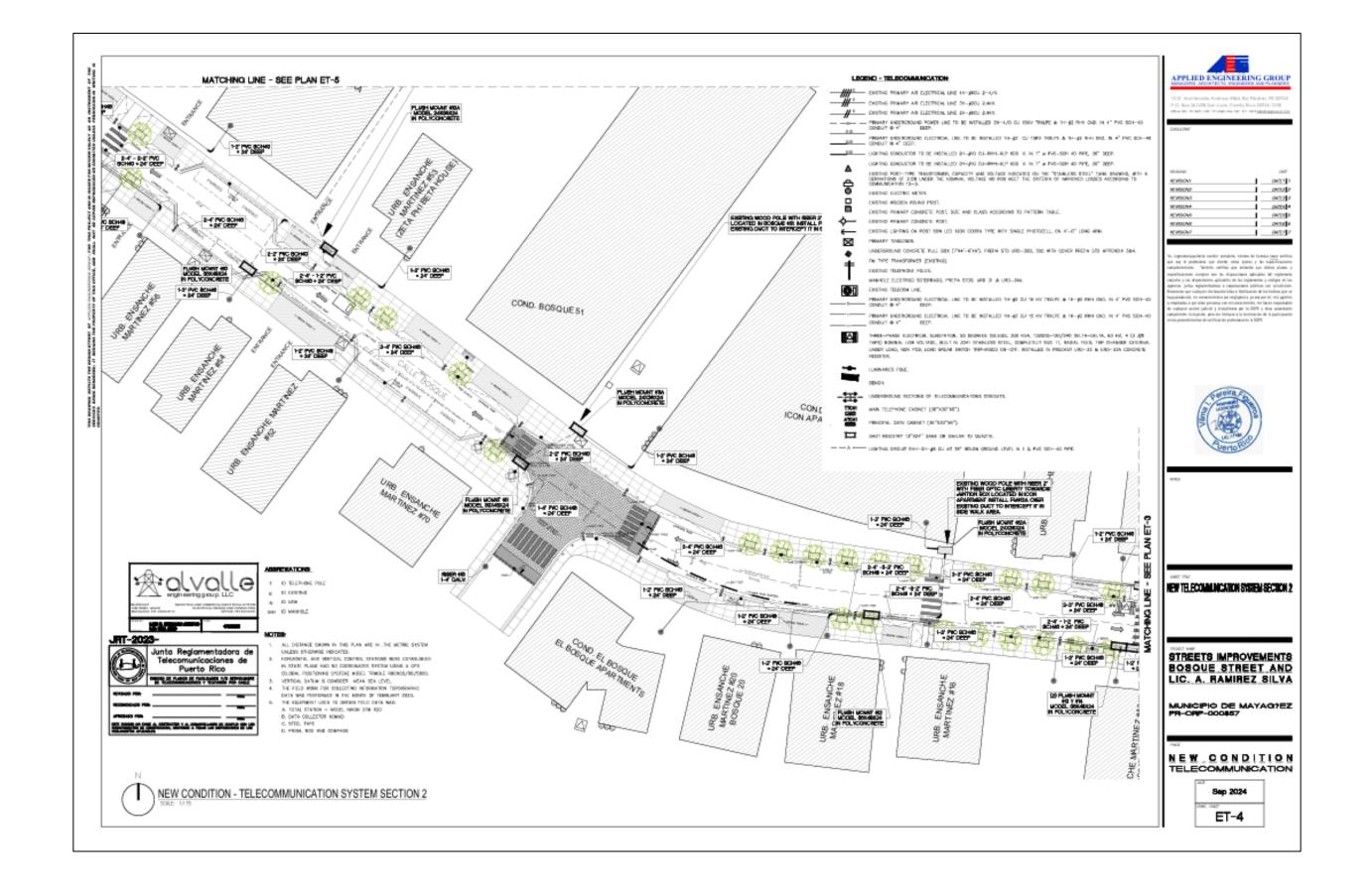
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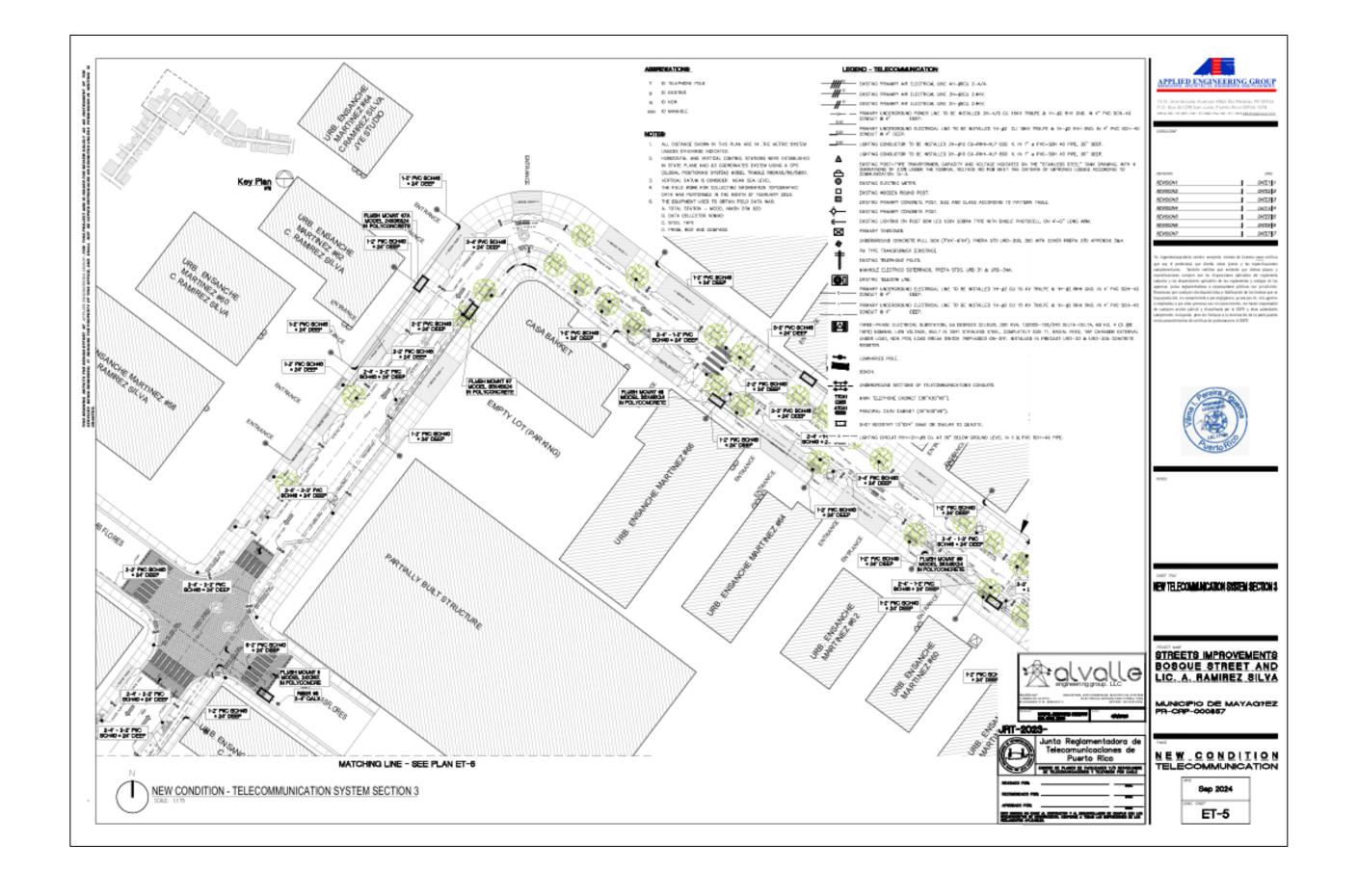
NEW CONDITION - ELECTRICAL SYSTEM SECTIONS & TRENCH DETAILS

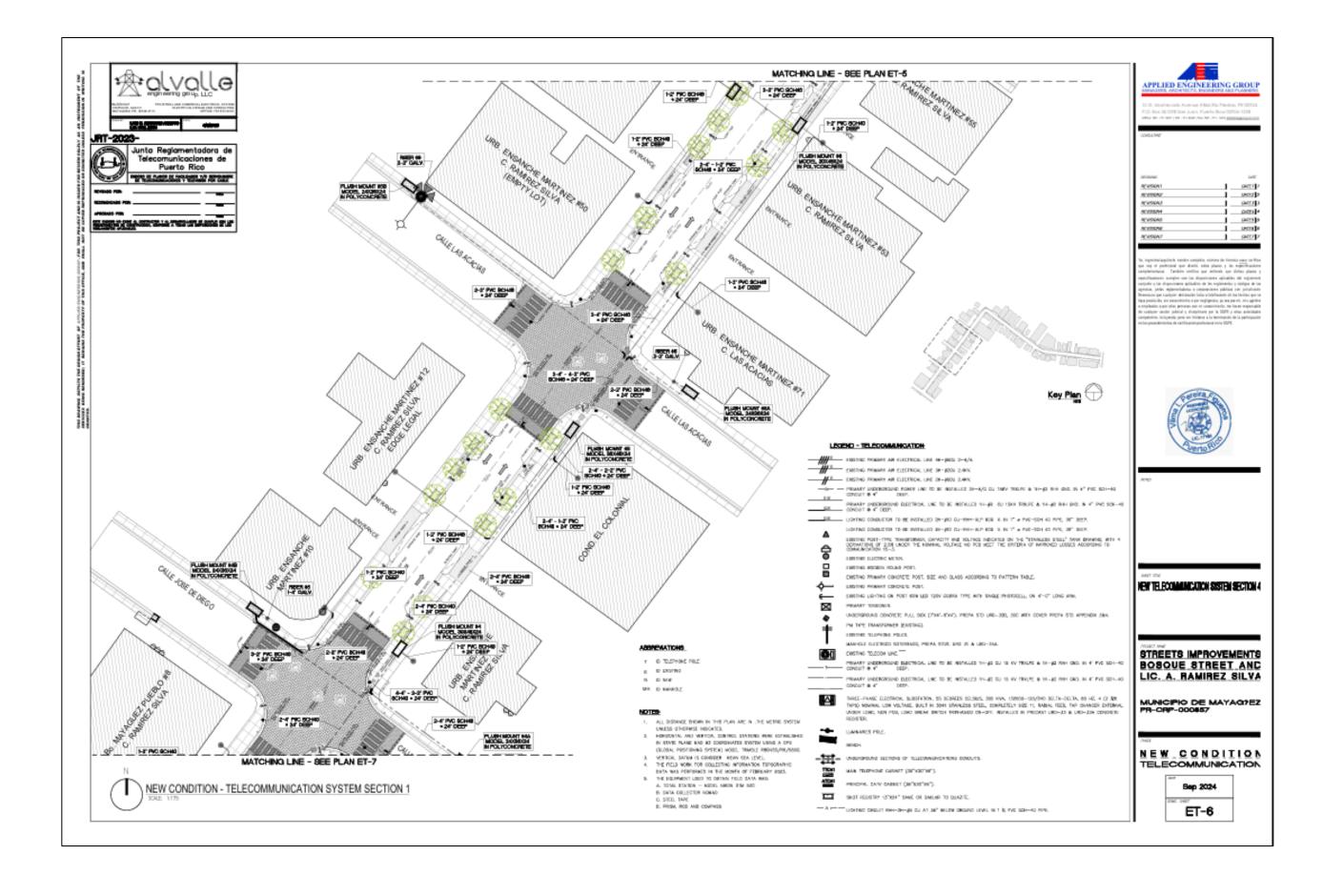


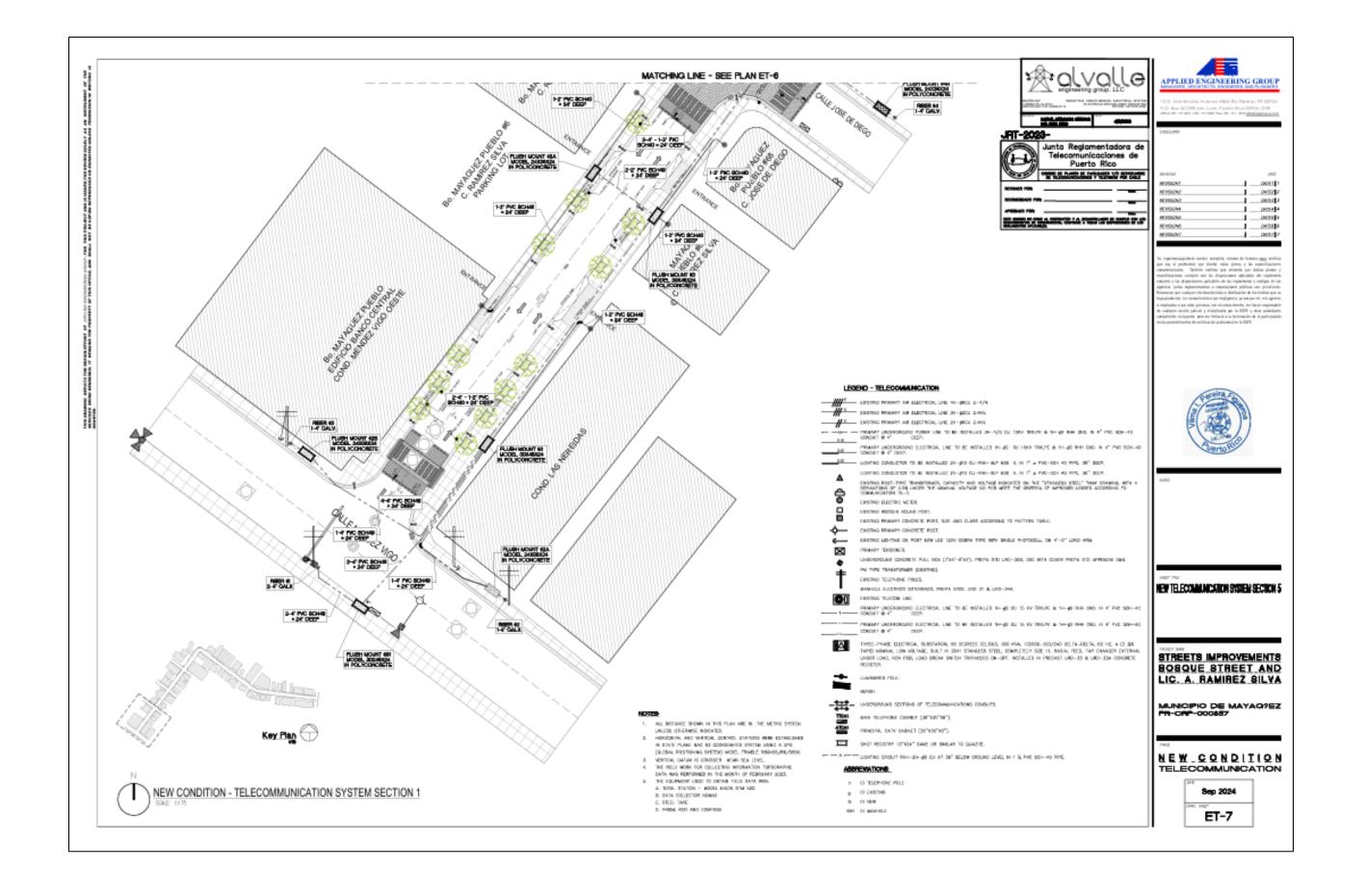




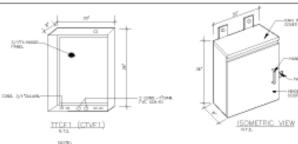




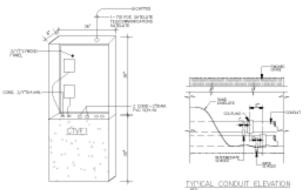




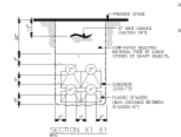




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TELECOMUNICATIONS CABINETS DETAILS



CONTINUE GENERAL NOTES: (REQUIRED BY ARTIFIE)

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- √ TENTED ROSS (West, 4°, 8° + 5°4° (SQUIES COMES) WITH WHITE FIRE PETWERNET PRINT! C TESTHORE METEL CHRIST 30" x 3" x 10" (MIX) AND ESTE 30"x 30"x 4". MOTE CHRIST SHILL BE ESSETTED METH A 3.1" THAT THE TEST STATE THOMAS AND SHILL A HINGE BOOK METH SAFET AND STATE AND SHILL FRANCE CHRIST FROM NA, MODES.

- GENERAL NOTES: (REQUIRED BY ARTICLE)
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JRT-2023-

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alvalle engineering group. LLC

Junta Reglamentadora de Telecomunicaciones de Puerto Rica

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APPLIED ENGINEERING GROUP

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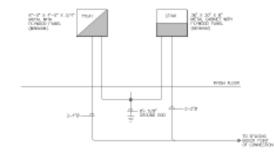
EXISTING TELECOMMUNICATION SYSTEM DETAILS

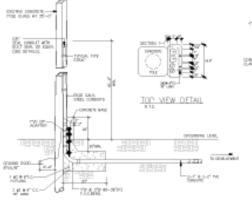
STREETS IMPROVEMENTS BOSQUE STREET AND LIC, A. RAMIREZ SILVA

MUNICIPIO DE MAYAGREZ PR-ORF-000857

EXISTING CONDITION TELECOMMUNICATION

> Sep 2024 ET-8





55 MIN (5) -COVER DETAIL SIDE VEW SEAL CONDUIT DETAIL

DICTORAL OF BUILD-

TELECOMMUNICATIONS RESER DETAIL SOURCE DE LANCE EL VALCATA

CONTRACTOR TO INSTALL LABORSTOLAG COVOLITS AND TELEPHONE BILLE TO POLICE AS THE SECTION OF CONDUITS XI, 61 (SEE TYPICAL SECTIONS THIS SHEET).

2-COOFDINATE COVOLITS INSTALLATION WITH PROJECT SHIVTA REGLAMINYASINA DE COMUNICACIONES DE FUEITO REG[®]RUTECTURE.

AS -BUILT - EXISTING TELECOMMUNICATION SYSTEM DETAILS

MAIN TELECOMMUNICATIONS TERMINALS FOR COMMERCIAL BUILDING-(TYPICAL)

LEXCAVATION

AN ANTONOMY OF THE

ı.

- 1. At start of construction verify the center line of the
- 2. Test Holes Uncover and expose all known conflicts 3. Subject to federal, state, or local requirements, the
 - o) Under driveways b) Under sidewalks
- c) Off the traveled part of highways, streets, 4. The total depth of the trench should be indicated an the
- 5. The trench bod should have a slight drop in grade from a
 - Flot Torrain From the center of the section toward each menhole. Rolling Tomain — From the center of the section toward each marhole.
- 6. The side walls of excevations, which craftsman must

 - Solid rock
 Side walls cut to an angle which leaves a rise of In the case of manhole excovations,

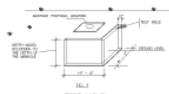
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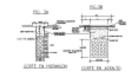
- 1) Having the excevation made a few inches deeper 2) Hoving sand or crushed stone dropped in the
- 3) Having a craftsman stand baside the
- 7. Protection while Installing Shoring. Special provisions
- 8. The timber used to support the side walls of excavations
- 9. Grade and level the trench bed to avail abrupt changes.
- 10. When the trench bottom contains water or is of an
- 11. In areas where the water table is above the battom of the
- 12. In paved areas, the surface should be carefully out
- 13. The Decupational Safety and Health Act (OSHA) requires
- 14. Transhas less than 5 feet deep should be shored if they

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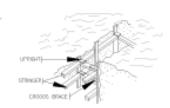
- * SOL TYPE OF EDWOTTON

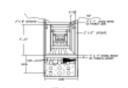
 - A HATEL , EDMINATE B LWELY TO CENCK C SOFT, SANDY OR FILLED D HYDROSTYTIC PREASOURE
- * STORES SPACES = 1 FT
- DYDES BRACES SERVICES 4 PT VERTICALLY, E PT HORSONALLYTERICA JACKS BAY BE SIXE BY LIEU OF, OF IN COMMISSION MEN, OYOSS BRACES.



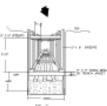


- I. LEAKE 4 IN TO 6 IN MOPKING STYCE. BETWEEN SPICE AND CONDUIT.
- 2. WHERE STRAGETS ARE NOT REQUIRED (SEE TABLE B AND C)





PARTIAL STAKED



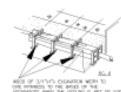
TYTCA, TURCH SHERIC FULL STAKED



II.CONDUITS INSTALLATION

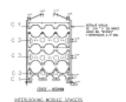
- B PLASTO COROUT S A "TY(O), SMOLE DUCT-THYE CORDUT INFENCES FOR SIZE IN SMOLE DE MALTINE BUCT CONSTITUETON, AND IS AMERIC SPORESSO IN CONCEPTE. IF CAM ASSI DE USED IN STRUCTURES SUCH AS BROODER, MONCES, ETC, MAISTE F CAM BE CAST IN THE EXPENSES OF THE STRUCTURE.
- 2. AT MARKOLE AND CARLE WALT ENTERMEDS, RELABELESS OF THE OUT HISTORIZATION IS THE TEXACY, THE SENTANTION RETWEEN OUTF BOTH HORIZONFALLY AND VERTICALLY STOLLIO DE ATTRODOMETRIZATION, THESE BETWEENINGS EACH SENTANCE WITH COMMERCIALLY AND AUGUST FLASHING STACKESS, LASTIC STORYS, OR BRICKS FLACED DEFINED THE OUTS.
- 2. LENGTH SHOTTEST HAVE BY SHOULD NOT BE USED AT MAYHOLES OF CABLE WALL ENGTHINGES, THE LENGTH PROPER ARE USED FOR THE BHLANCE OF THE SECTION.
- 4. THE BRISE STACES SHOULD BE STACED ARRIVE THE TERRICH BOTTOM AT NOT MORE THAN 8" OR COPYER, BUT THE REST THES OF DUCTS INTO THE STACES BOOKS, THAN THE STACES OF BRISTS, CT.S. ARRIVED THE STACES THAN THE STACES ARRIVED THAN THE STATES ARRIVED ARRIVED THAN THE STATES ARRIVED THE STATES ARRIVED THAN THE STATES ARRIVED THE STATES ARRIVED THAN THE STATES ARRIVED THAN THE STATES ARRIVED THAN THE STATES ARRIVED THAN THE STATES ARRIVED THE STATES ARRIVED THE STATES ARRIVED THAN THE STATES ARRIVED THE STATES ARRIVED
- a. RHETE THE FORMATION WILL BE MOTE THAN 4 OLICTS MODE, IT WILL BE PROTECTION TO SUGARLY OFFSET GROUPS OF 1 UNIT STYCEPS IN THE DAME TRYDIC DISE OF HISTRICATION.
- 6. THE STAYES USED TO PROVIDE SETMATION BETWEEN THE COLUMNS WID THE TROUGH WALLS DROUGD AWAS A PROVISION FOR SHIPS THE TOOL FOOTHER TO PROGRAM COLUMNITATION COLUMNS THE CONCENTRE FOUNDAY, AND TO PROSIDE A REPERBYCEMAKE FOR CONCENTS CAPTING OF THE DISC STRUCTURE.

MONITOR STACES (FIG. 6); MALARIE TRON THE GAIL ON PRODUCTS DIX MUTOR, COING THE STACES ARE ANALRIE IN SHILE LAWS, THEY ARE ARRANGED FOR PERMANENT HORIZONTAL AND VERTICAL LOCKING.



DETAIL OF INSTALLATION OF STACETS IN IN CONDUITS TO BE INSTALLED

ALL CONDUCT BOWG BILL MAKE THE STACERS AND TWOY WILL BE INSTALLED 57-07 MANY



TEST HOLE

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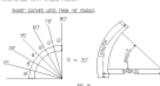
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OUET JOHNS IN THEM SECTIONS SHOULD BE WAS OUT OF THE TROUGH (SO THAT THE CHINGS BODD SECTION ON BE PROPISED IN PLACE MFO THE TRENCH) AT LEMST TWO HOURS BEFORE FLACING, TO HELP CHANGE AN EFFECTIVE JOINT.

OPEN CLASSES CHARL NO DROVIN STORGET INC CONDUST WILL BE USED TO FORM THE OPEN CURRES, WHICH THEY WITE LIGHTED IN THE TREMEN WITH NO LESS TAMM NO TAXONS AND THE STICERS EVERY 8"-0" AND PROPERLY AND WHITE STILL FOOD.



6 BBNOS OF 4% PNC 15-308 (BY LONG EACH) WILL COMPLETE THE BOY BEND ULLESTATED FORLY PRE-PARPEATED CHRYS WILL BE USED AS REDIGATED BY THE ENGINEERING DESWITMENT.

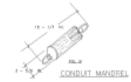
THE BINDS WE THE LUSTING TO SENS.

2- TO CONSTRUCTOR-LOG SCISS AND DETAILS ARE MOLIDED FOR LILUSTRATIVE PUFFURES. FRAN, SIZES MAST FOLLOW THE OFFICEAL PARKETS

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III. TEST WITH MANDREL



TESTS WITH MANDREL

ATTER CONTINUED TO SETALL ALL DOBOUT SHALL BY SHORE, TESTED AS FOLLOWS.

18-1/4" LONG = 3-4/4"s MANDERS, IT MALL BY SUID TO THE TEST ALL HONDO EXPANSES AND TO SELECT SHALL BY SHOULD.

If LONG > 3-5/4"s MANDERS, HOT TO SELECT ORDOOD TO STREET SHALL BY SHOULD.

IF LONG > 3-5/4"s MANDERS, HOT TO SELECT OWN SHORES.

IN SECTION SHALL BY SELECT SHALL SHALL SHALL SHALL SHALL SHALL BY SOURCE SHALL SHA

IV. DUCT REPAIR



JRT-2023-

1 L:

TO BOYME SECTIONS OF CONDUITS WITH EXISTING CARLE, THIS OPEN TUBE INCTHOD WILL BE USED. (AMALAGLE BY CESTICE-INCREMAN COST.)

Junta Reglamentadora de Telecomunicaciones de

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Puerto Rica

APPLIED ENGINEERING GROUP

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EXEMPLE ECOMMISSION SYSTEM DETAILS

STREETS IMPROVEMENTS BOSQUE STREET AND LIC. A. RAMIREZ SILVA

MUNICIPIO DE MAYAGREZ PR-ORF-000857

EXISTING CONDITION

ET-9

DE SELECTION DE L'ACTION DE L'ACTIONNE À DELL'ABRE REPREADE PRO-ACROBASIO (1991) TELECOMMUNICATION

Bep 2024



THE DELINE CONTONN FA. BY I II IS STOP STEPHEN FROM MHON-MICH, BINGS MINDS FOR A PERSON OF TO SECOND, MILL GRAND IN THIS RS SILLINE TO SOME A BENCK STONE NAME WITH A DESCRIP OF 3 TH 4 PROMES FISH OLDER FORD.

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- b. Let the case in it is attacked to the classification the consult for a few of the case of the ca
- C. PLACE A PRIZE OF FORMER $h^2 h h^2$ OF A PRIZE OF EMBROWED OF tHE DARK EMBROOMS TO BLOCK THE DARK.
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SUL COMPACTION PROCEDURES

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- C. SELLY BE ROLLEX THESE RECOVERS FOR SPECIAL AS FILED FINE SPECIAL TESTS TO SERVICE SPECIAL CO. S.

SCHOOLS NUMBER 1 - LINES OF SIZES OF INTERNES IN SOLS

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BETWEEN THERMATERIAL CONESSIO - ES NOVEL MATERIAL, OLE L'OSSE LA HEALTHAN

LANGE SSS

SCHEDUE NUMBER 2 - MANUAL FESTS FOR DENTFORTING OF FIVE SOLS

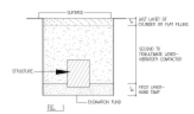
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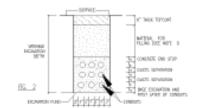
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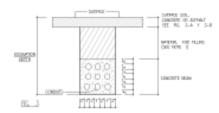
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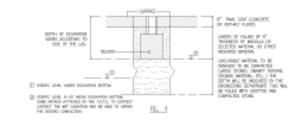


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EXISTING TELECOMMUNICATION SYSTEM DETAILS

STREETS IMPROVEMENTS BOSQUE STREET AND LIC. A. RAMIREZ SILVA

MUNICIPIO DE MAYAGREZ PR-ORF-000857

EXISTING CONDITION TELECOMMUNICATION

Sep 2024

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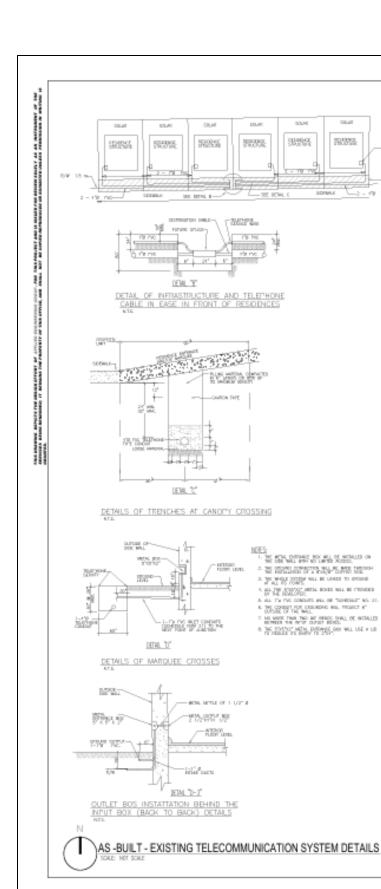
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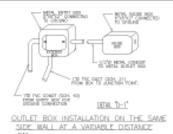
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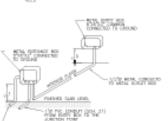
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INSTALLATION OF THE QUILLET BOX ON A DIFFFERENT WALL FROM THE ENTRY BOX

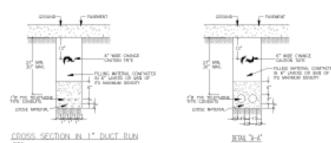
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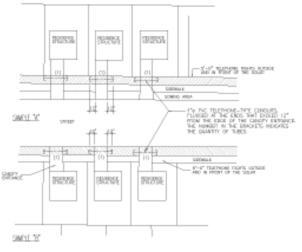
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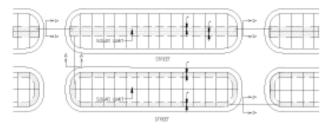
DETAIL OF THE LOCATION OF THE ELECTRICAL AND TELEPHONE LINES WHEN THEY CROSS THEM



INSTALLATION OF THE OUTLET BOX ON DETAILS OF TRENCHES AT STREET CROSSING



DETAILS OF STREET CROSSING WITH EASYMENT ON THE FRONT



- LEGAL EXCENDIT OF THE FEET WIDE, MEAGURED FROM THE PEAR ADJACENT OF THE PLOTE AND THROUGHOUT THE EMPIRE LENGTH OF THE BLOCK.
- LEGAL EXCEMENT OF FIVE FEET WIDE, MEXCURED FROM THE ADJACENT ON THE FRONT OR SIZE OF THE LOT AND THROUGHOUT THE ENTIRE LENGTH OF THE BLOCK.

DETAILS OF INSTALLATION OF CONDUITS AT CROSSING STREETS

INFORTANT NOTES:

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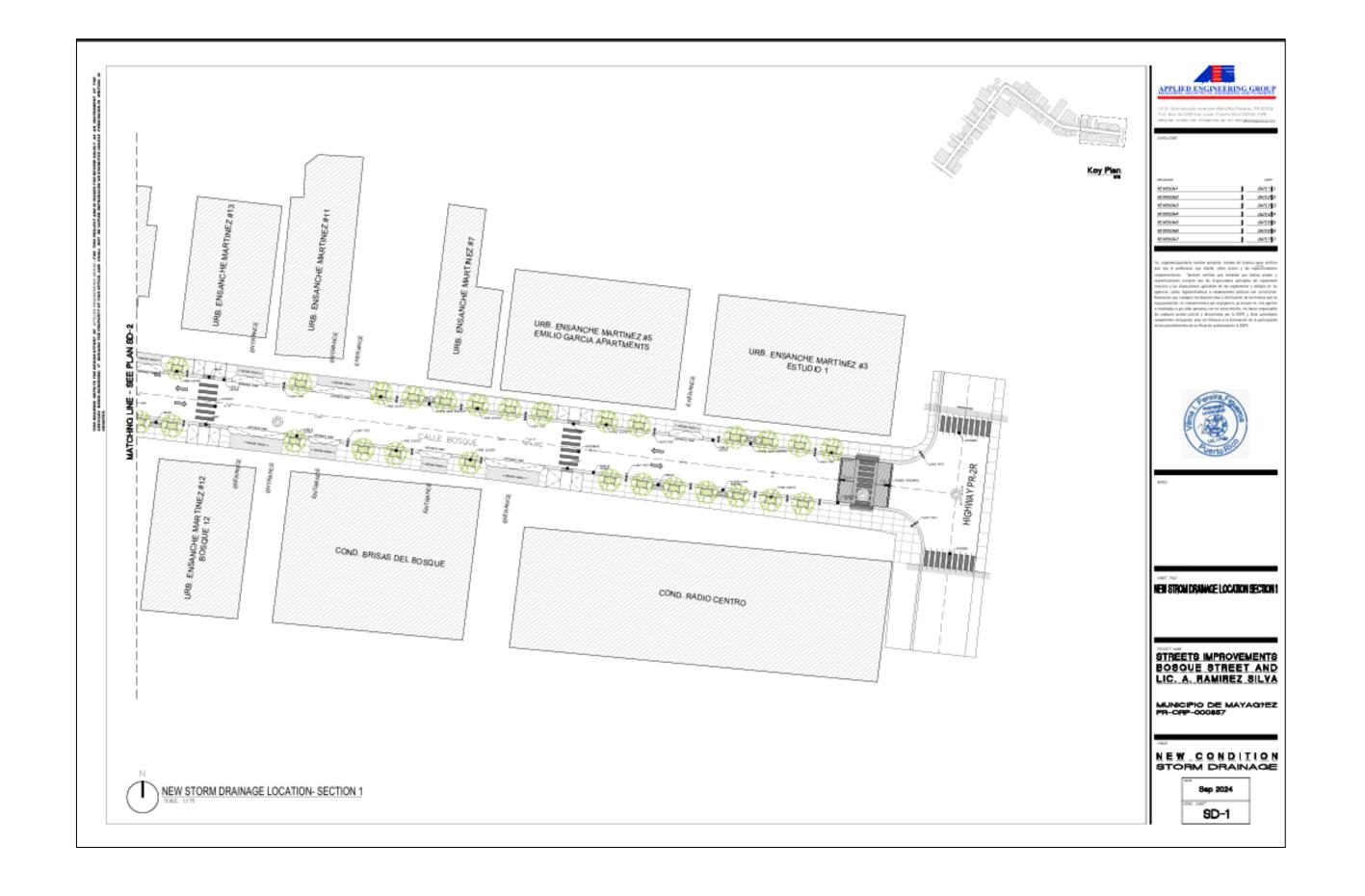
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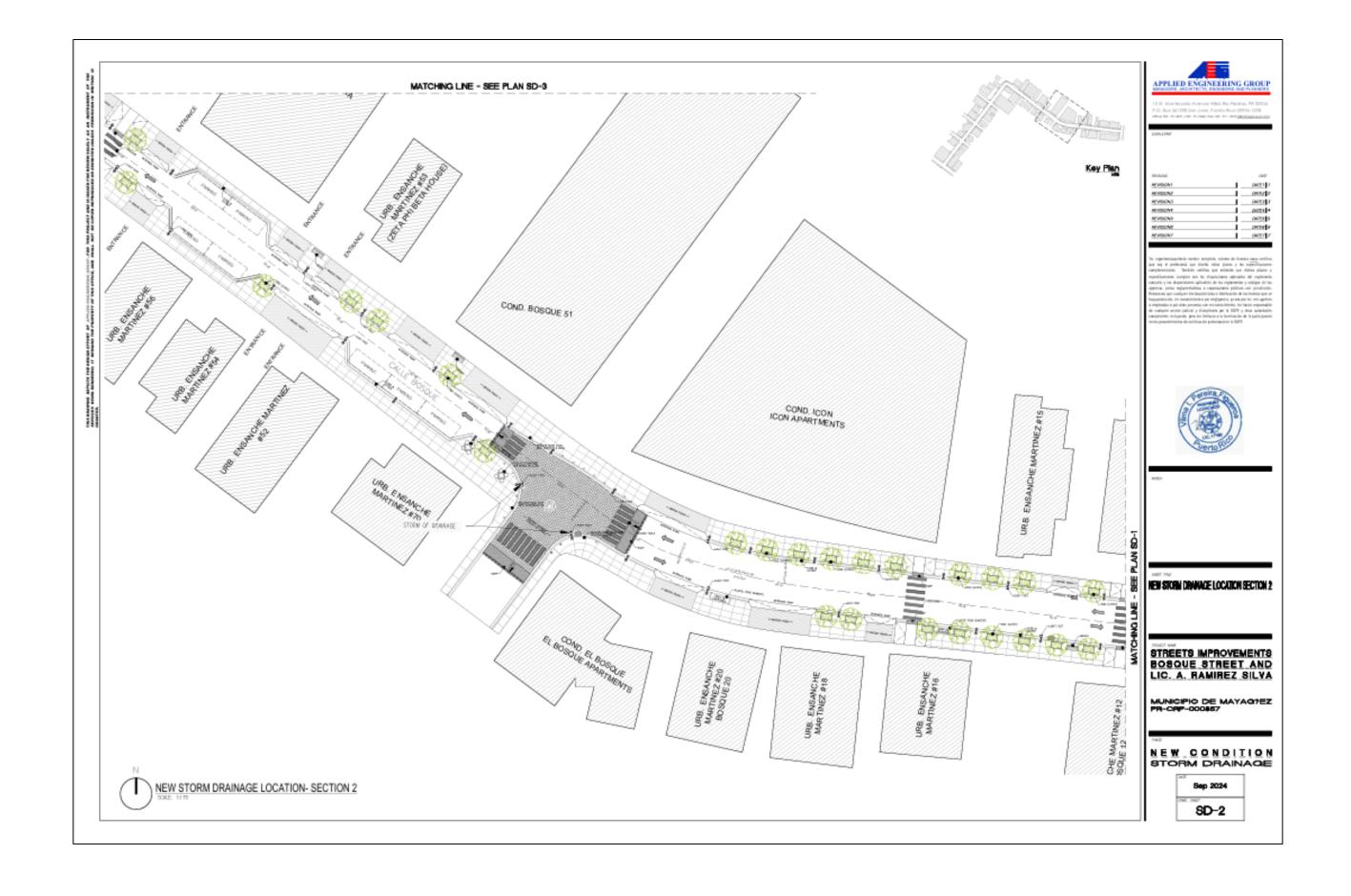
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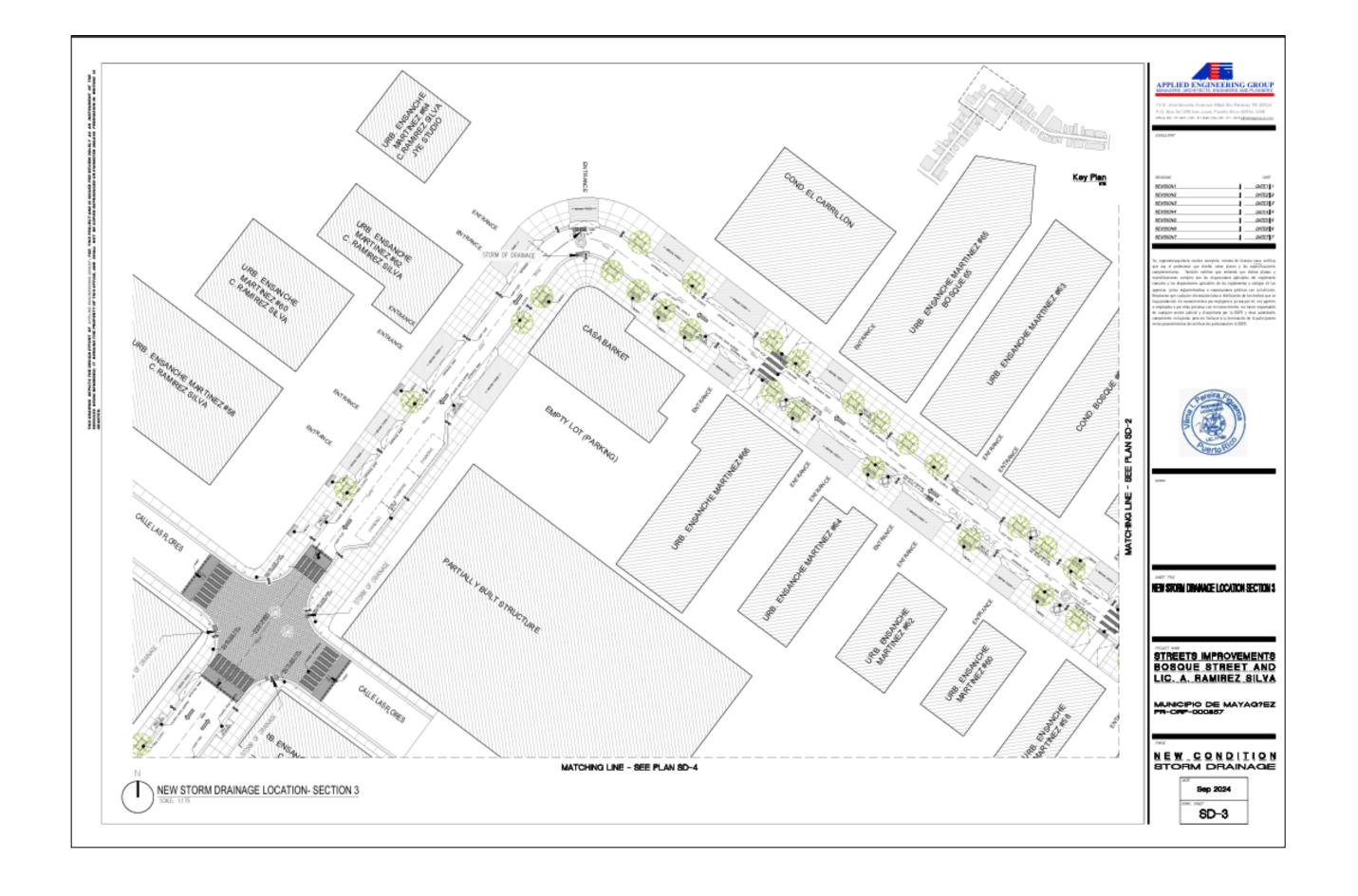
MUNICIPIO DE MAYAGREZ PR-ORF-000857

EXISTING CONDITION TELECOMMUNICATION

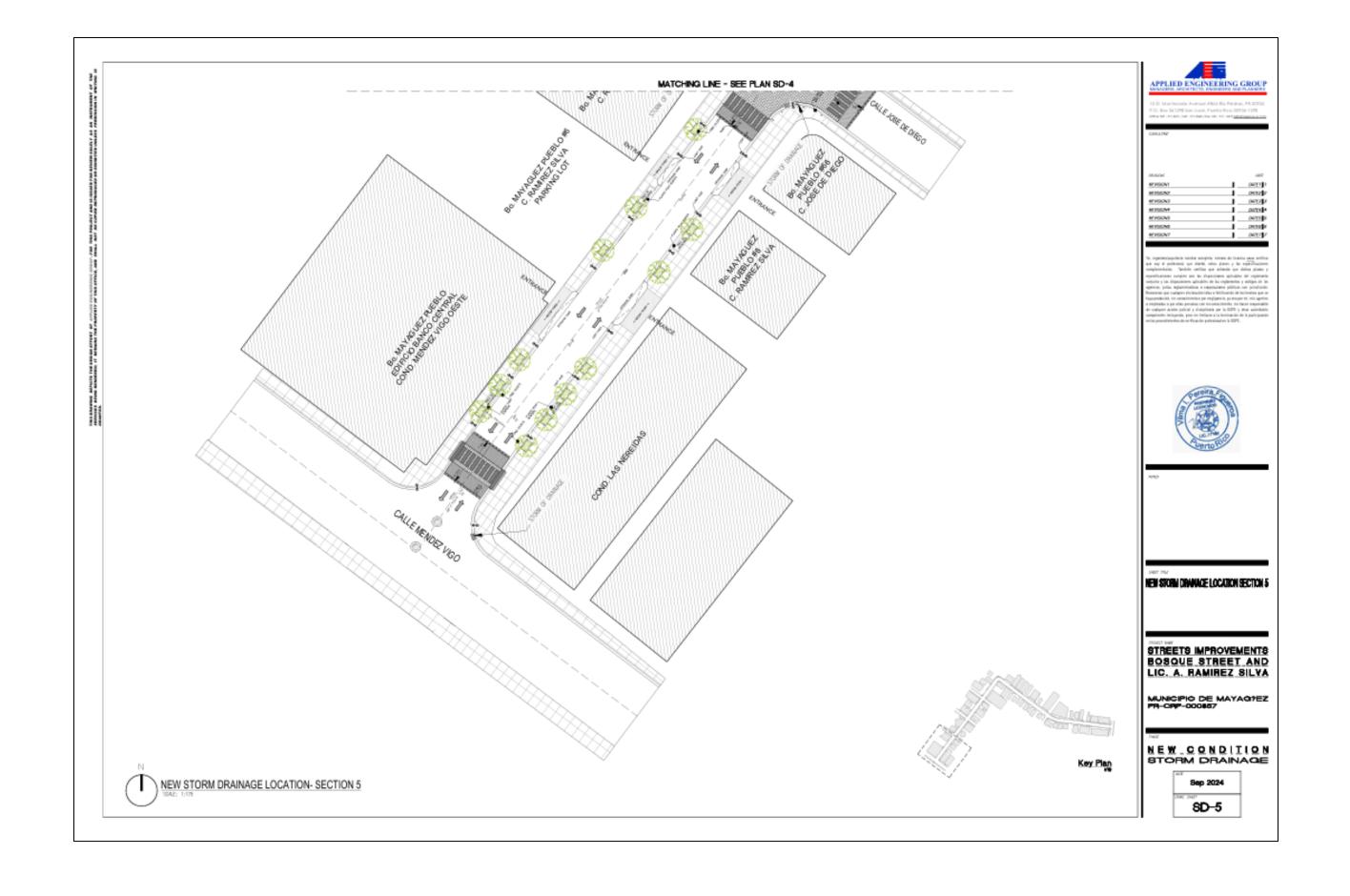




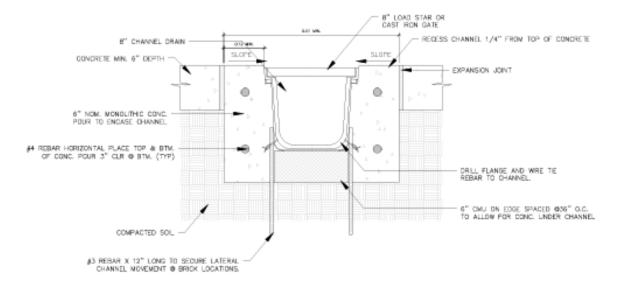








8" CHANNEL DRAIN BY NDS OR APPROVED SIMLAR SCALE: 1: 4



NOTES:

- CHANNELS TO BE INSTALLED WITH GRATE, GRATE TO BE PROTECTED FROM CONCRETE POUR.
- INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURE'S SPECIFICATIONS.
- ALL INFORMATION CONTAINED HERE WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.

SPECIFICATIONS:

- 1. MATERIAL: HIGH IMPACT GLASS REINFORCED NYLON
- 2. COLOR: LIGHT GRAY
- GRATE OPENING: 1/2" X 5-3/4"
- 4. OPEN SURFACE AREA: 30.85 SQ. INCHES PER FOOT
- HEAD PRESSURE/ FLOW RATE:
- 1°=133.47GPM PER FOOT
- 0.5"=94.37GMP PER FOOT
- 6. WEIGHT PER ECH: 3.89 LBS.
- 7. CLASS C:
- LOADS OF 176-325 PSI
- RECOMMENDED FOR HEAVY-DUTY PNEUMATIC TIRE FORKLIFTS AND TRACTOR TRAILERS AT SPEED LESS THAN 20 MPH, H-20 RATED.





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NEW STORM DRAWAGE LOCATION DETAILS

STREETS IMPROVEMENTS BOSQUE STREET AND LIC. A. RAMIREZ SILVA

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NEW CONDITION STORM DRAINAGE

Sep 2024

SD-6



GOVERNMENT OF PUERTO RICO

STATE HISTORIC PRESERVATION OFFICE

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

Sunday, October 6, 2024

Lauren B Poche

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

SHPO-CF-09-25-24-05 PR-CRP-000857 (Mayagüez), Mejoras a la Calle Bosque y Calle Lic. A. Ramírez Silva

Dear Ms. Poche,

Our Office has received and reviewed the above referenced project in accordance with 54 USC 306108 (commonly known as Section 106 of the National Historic Preservation Act, as amended) and 36 CFR Part 800: Protection of Historic Properties from the Advisory Council on Historic Preservation.

After a review of all the documentation, the PRSHPO agrees with your finding that the proposed project, with the established conditions, will have no adverse effect upon historic properties:

1. Archaeological monitoring during ground disturbing activities. Please provide us with the archaeological monitoring work plan, for our review and concurrence, prior to implementation.

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

Sincerely,

Carlos A. Rubio Cancela

State Historic Preservation Officer

CARC/GMO/ MB







Arch. Carlos A. Rubio Cancela

Executive Director Puerto Rico State Historic Preservation Office Cuartel de Ballajá, Third Floor San Juan, Puerto Rico 00901

Re: Authorization to Submit Documents for Consultation

Dear Arch. Rubio Cancela,

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

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

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

Cordially,

Aldo A. Rivera Vázquez, PE

Director

Division of Environmental Permitting and Compliance

Office of Disaster Recovery



9/25/2024

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

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

Section 106 NHPA Effect Determination Submittal for PR-CRP-000857: Mejoras a calle Bosque y calle Lcdo. A. Ramírez Silva Project, Mayagüez, Puerto Rico – *No Adverse Effect, Conditioned*

Dear Architect Rubio Cancela.

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

On behalf of PRDOH, HORNE is submitting documentation for the proposed Mejoras a Calle Bosque y Calle Lcdo. A. Ramírez Silva Project. The Municipality of Mayagüez is proposing to rehabilitate and renovate Bosque and Ramírez Silvia Streets. Bosque Street renovations will begin at its intersection with Highway PR-2R to the East and extends to its intersection at Ramírez Silvia Street, then continue down Ramírez Silvia Street to its



intersection with Mendez Vigo Street. Work will consist of the reconstruction, redesign, and improvement of the streets and sidewalks to comply with ADA regulations, the replacement of street lighting, replacement of the electrical system and underground aerial telecommunications system, installation of green infrastructure for stormwater management, landscaping, installation of new garbage receptacles, and new pocket parking sections. 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, conditioned to archaeological monitoring to be conducted during ground disturbing activities. This is due to the potential for deposits associated MY-93 in CAT/PAE, "Residuario Plaza Barcelona", a pre-Columbian residuary located 0.07 miles to the northeast of the APE. An archaeological monitoring plan will be prepared and submitted to the PRSHPO for review and approval.

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

Kindest regards,

Lauren Bair Poche. M.A.

Architectural Historian, Historic Preservation Senior Manager

Attachments

LBP/JCO

PR-CRP-000857 Mejoras a la Calle Bosque y Calle Lic. A. Ramírez Silva Project Mayagüez, Puerto Rico

Section 106 Effect Determination Form

CITY REVITALIZATION PROGRAM (CRP)

Section 106 NHPA Effect Determination

Subrecipient: Municipality of Mayaguez, Puerto Rico

Program ID Number: PR-CRP-000857

Project Name: Mejoras a calle Bosque y calle Lcdo. A. Ramírez Silva

Project Location: Bosque and Ramirez Silva Streets of Mayaguez, Puerto Rico

Project Coordinates: Start Point (Lcdo. A. Ramirez Silva ST.): Lat: 18.204045,

Lon: -67.145094. Intersection, (Corner of A. Ramirez and Bosque St): Lat: 18.205985,

OVERNMENT OF PUERTO RICO

Lon: -67.143520. Endpoint (Bosque St.): Lat: 18.204805, Lon: -67.140558.

TPID (Cadaster Number): 233-077-593-09

Type of Undertaking:

Substantial Repair/Improvements

□ New Construction

Construction Date (AH est.): ©1930-40 | Property Size (acres): 1.686 Acres

SOI-Qualified Architect/Architectural Historian: Carlos Ferrán-Martínez, Preservationist

Architect

Date Reviewed: August, 2024

SOI-Qualified Archaeologist: Norma Medina-Carrillo, PhD, Archaeologist

Date Reviewed: August, 2024

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

Project Description (Undertaking)

As established and written by Proponent: Due to the geographic location of Puerto Rico, an active hurricane season is observed every year, with a high risk of direct impact. To prevent or minimize the recurrence of damage from future events or other natural disasters, the project expects to increase the resilience of the lighting system and stormwater controls. In addition, it will create a safer space for vehicle and pedestrian traffic, promoting inclusion by creating accessibility for the community of differently abled people, promoting social, commercial, and residential to meet the existing demand for services. This project seeks to connect communities with an optimal combination of pedestrian traffic and vehicles mobility.

CITY REVITALIZATION PROGRAM (CRP)

Section 106 NHPA Effect Determination

Subrecipient: Municipality of Mayaguez, Puerto Rico

Program ID Number: PR-CRP-000857

Project Name: Mejoras a calle Bosque y calle Lcdo. A. Ramírez Silva

Description of changes

This proposal aims to state improvements to Bosque Street which begin at its intersection with Highway PR-2R to the East and extend to its intersection at Ramírez Silvia Street, then turns down Ramírez Silvia Street to its intersection with Mendez Vigo Street. The project will provide better lighting at night and early in the morning to promote greater safety on a high-volume street; In addition, it will improve the condition of the streets, reducing damage to vehicles, adding that it is also used by citizens and/or students on bicycles or scooters. The reconstruction of the sidewalks to provide a more comfortable and safe space for all pedestrians, including the differently abled people.

The proposed changes include the following:

- 1. Reconstruction, redesign, and improvement of both streets with their sidewalks to be ADA compliant, as follows:
 - a. Reduction of automobile lanes to a minimum of 19'-11¾" for double-traffic sections, incorporating raised crosswalks that provide accessibility for all pedestrians, in turn serve as speed bumps to control vehicle speed. This applies to the following sections:
 - i. Bosque Street (from Dr. Basora (2R) and R. Betances Streets) to Orquídea Street).

OVERNMENT OF PUERTO RICO

- ii. Ramírez Silva Street (from Las Flores to Méndez Vigo Streets)
- b. Increase sidewalks to the maximum possible between 5' to 7'-8", but never under 36" minimum.
- c. Removal, arrangement, and replacement of sidewalk lighting following design layout.
- d. Reduced to a single lane in one direction, providing pocket parking spaces to the side of the street, as per the new design for Bosque and Ramírez Silva Street (from Orquídea to Las Flores Street).
- e. Removal, arrangement, and replacement of street lighting following the design layout and improvements to traffic signals for Bosque and Ramírez Silva Street.
- 2. Replacement of the electrical system and underground aerial telecommunications system.

CITY REVITALIZATION PROGRAM (CRP)

Section 106 NHPA Effect Determination

Subrecipient: Municipality of Mayaguez, Puerto Rico

Program ID Number: PR-CRP-000857

Project Name: Mejoras a calle Bosque y calle Lcdo. A. Ramírez Silva

3. Implementation of green infrastructure for stormwater management.

4. Reforestation activities, planting of new trees.

5. Installation/construction of communal garbage collection stations

6. Pocket parking on two-way street sections.

a. Bosque Street (from Dr. Basora Street (2R) to Orquídea Street).

b. Ramírez Silva Street (from Las Flores to Méndez Vigo Street)

Action- Demolition

- All Sidewalks will be demolished to prepare and construct new wider sidewalks as per design. It is expected to demolish up to current soil level, fill and compact as required and build the new sidewalk on the same footprint.
- o Street lanes scarification of asphalt as required, up to existing concrete level.
- o Selective demolition of street lanes, to install precast electrical manholes and new underground feeders (electrical and telecommunications). The excavations to place manholes is of approximately 10'2" depth x 8'4" x 11'4" and 11'10" depth x 13'4"x 10'4". Excavation for trenches and other components required for the underground system will be around 6' depth or less.
- o Existing above ground utilities distribution system (electrical and telecommunications), including light poles, concrete bases, conduits, and cables.

Excavations:

- 1. Earth movement or disturbance will take place.
 - o All sidewalks will be demolished, and new wider sidewalks will be constructed. This demolition is typically to the current earth level.
 - o Selective demolition will occur to accommodate new underground infrastructure for electrical power distribution and telecommunication.

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2. Excavations associated with the electrical and telecommunication systems will take place. Selective excavations to install each precast electrical manholes and the new underground feeders for electrical as well as for telecommunication feeders. The excavations to place electrical manholes is of approximately 10'2" depth x 8'4" x 11'4" and 11'10" depth x 13'4"x 10'4". Excavation for trenches and other components required for the underground system will be around the 6' depth or less, this includes underground wiring for street lighting poles.

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- 3. Street road paving activities that will occur in the project area will be the removal of asphalt on street lanes up to the concrete level.
 - o There is approximately 4" inch of asphalt, that must be removed and replaced, as finishing.

New equipment

- o Lighting, street poles.
- o Traffic and Street signs
- o New equipment for underground power distribution (manholes, underground transformers, pull boxes, etc.)
- o Trees and gardening
- o Street furniture (benches, trash cans, domino tables)

Rehabilitation / Renovation / Repair / Improvement

- o Reconstruction of streets and sidewalks.
- o Replacement of street and sidewalk lighting.
- o Improvements in traffic signaling.
- Implementation of green infrastructure for stormwater management.
- Improvement of the storm sewer which consists of replacing the existing system depending on the conditions and considering new flow capacity, if necessary.

Construction

- o Construction of a pedestrian overpass and speed reduction.
- o Construction of pocket parking lots.

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- o Construction of underground infrastructure for power distribution and communication.
- o Demolition work is limited to sidewalks and streets. The works will not impact existing properties along these two streets.

This project is located between the following two streets: Calle Bosque (18.204804, -67.140518) and A. Ramírez Silva Street (18.203980, -67.145075) in Mayagüez, Puerto Rico. It intersects with two main streets in the municipality of Mayagüez, under the cadastral number 233-077-593-09.

From an environmental perspective, the proposed project does not interfere or promote a negative impact with the current behavior of the area, since it involves making improvements to two existing streets. The intervention proposed includes the adaptation of a new layout but within the existing levels with filling, preparation of sidewalks and curbs. Once the project is completed, the use will be like the existing one, which does not entail changes to the environment in addition to the current ones. Proper use will be promoted, benefiting the environmental impact for the area, implementing green infrastructure for stormwater management and reforestation activities. We understand that the impact is not significant, it is not affected by ecologically sensitive areas with respect to existing commercial use.

It is understood that major changes to the area that imply the deterioration of the environment are not contemplated in its use and during construction works. All material to be installed does not contain harmful agents to the health or the well-being of those who currently occupy the area proposed for the project. The new design proposed will not be altering the existing levels of water flow.

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Figure 1. Mayaguez Traditional Urban Center Delimitation Map (Source: https://oech.pr.gov/



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As defined in 36 CFR §800.16(d), the area of potential effects (APE) is the geographic area or areas within which an undertaking may directly or indirectly cause changes in the character or use of historic properties if any such properties exist. Based on this definition and the nature and scope of the Undertaking, the Program has determined that the direct APE for this project is 1.686 Acres, (Length: 2,040 Linear Feet, Width: 34 Linear Feet). The proposed project is within the NRHP-eligible Mayagüez Traditional Urban Center.

The visual APE (Length: 2,040 Linear Feet, Width: 40 Linear Feet), is the viewshed of the proposed project, which is a combination of commercial, residential, and multi-use properties, which consists of:

- Lic. A. Ramirez Silva Street runs North to South with the following streets boundaries (Running East to West):
 - o Starting Point: Mendez Vigo Street.
 - o Intersections: De Diego Street, Las Acacias Street, and Las Flores Street.
 - o End Point: Bosque Street.
- Bosque Street runs West to East with the following boundaries (Running North to South):
 - o Starting Point: Lic. A. Ramirez Silva Street.
 - o Intersections: Orguidea Street and Ramón Emeterio Betances Street.
 - o Endpoint: Basora Street-(State Road-2R).

Identification of Historic Properties - Historic Background

Originally, in the sixteenth century, the area that today occupies the city of Mayagüez was recognized as Puerto de Las Palmas. In 1680, the first church was built in the place under the invocation of the Virgen de la Candelaria. Then, during the eighteenth century, it was called Aguada la Nueva. From its foundation as a town, the name given was "Nuestra Señora de la Candelaria de Mayagüez", in honor of the Virgen de la Candelaria patron saint of the Spaniards of the Canary Islands. Due to its excellent location on the banks of the river, the name of the Rivera del Yagüez or Mayagüez became popular, originally Mayagüex, the indigenous name of the river, which means "Great Water Site". Some translate the word as "clear water" or "Land of clear waters". However, in the Taino language, the prefix MA means great, YA (IA) means Spirit and GÜEZ means water, which together would be translated as Great Spirit of Water.

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The town of "Nuestra Señora de la Candelaria de Mayagüez" was officially founded in 1760, by Faustino Martínez de Matos, Juan de Silva, and Juan de Aponte. In 1763 the government of Spain granted the founders the right of autonomous government separated from the Partido de San Germán.

The urban fabric of Mayagüez was established as provided in the ordinances of the Laws of the Indies for the layout of the towns in America. Following these urban regulations, the towns were established from the space of the Plaza Mayor. The blocks and streets formed a grid that surrounded this central space. The Cuban military Fernando Miyares Gonzales in 1775 describes the town of Mayagüez; "It is a quarter of a league from the sea and dominates its harbor and pleasant surrounding grounds. This pleasant situation attracted people who in five years formed a town with fifty houses in the vicinity of their good church... The port is capable of frigates." Towards the end of the eighteenth century, historian Fray Iñigo Abbad y Lasierra describes the town of Mayaguez in this way:

"The part of their territory, which includes the plain, is very fertile and they cultivate in it all the fruits of the Island. They have some good trapiches and quite a lot of cattle of all species. The hills and high parts of Hormigueros, although the land is good, are uncultivated and there are only a few small farms for cattle. The river does not have a great water flow but has gold sands up to 22 carats. In the first years of the reduction of the Island large portions were taken out; Today hardly anyone curious has made the experience. It flows into the port of its name, which is a quarter of a league from the town: it is quite capable and sheltered from the winds, although, for some lows, only frigates and ships of less size can anchor safely."

Towards the end of the eighteenth century, the main agricultural product of Mayagüez was tobacco followed by rice and coffee in addition to livestock. The urban development of the town occurred in concordance with the economic cycles of development of the economy and the expansion from the eighteenth century of coffee crops in the mountainous area of its territory, which formed the important basis of its economy, in addition to port activity. In 1836 the town of Mayagüez was elevated to the category of Villa. The material losses suffered by Mayagüez during the Great Fire of 1841 were concentrated in the area that covered the urban center of the Villa.

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¹ Miyares Gonzáles, Fernando, Noticias particulares de la Isla y plaza de San Juan Bautista de Puerto Rico. Aníbal Sepúlveda Rivera, Puerto Rico Urbano, Vol. 1 San Juan, Puerto Rico, CARIMAR, Departamento de Transportación y Obras Públicas, 2004. Pág. 113.

² Fray Iñigo Abbad y Lasierra, Historia geográfica, civil y natural de la isla de San Juan Bautista de Puerto Rico. Río Piedras: Editorial de la Universidad de Puerto Rico, 196. Págs. 136-137.

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In 1841 a fire occurred in the urban center of Mayagüez that spread for several blocks of the urban area causing the loss of residences, buildings, and human lives. The plan prepared for the edification of the town of Mayagüez after the fire of 1841 forced the establishment of measurements of the plots which reduced the number of available lots. Urban planning demanded the purchase of land for the extension of the town. Three years after the "Great Fire of 1841" most of the reconstruction of the houses had been completed. In 1845 the town hall of Mayagüez was built at a cost of 25 thousand pesos. The architect Pedro García oversaw the design. The villa was rebuilt with some of its main roads enlarged to prevent the spread of fires in the future. General Santiago de Méndez Vigo, Puerto Rico's military governor at the time, raised funds to help rebuild the city. Today, one of the main avenues of Mayagüez bears its name. From the Great Fire of 1841, urban reforms were conducted in the historic urban center of Mayagüez. Professor Ramonita Vega Lugo is the historian who has studied the event and its urban consequences better. Her work "The Development of Mayagüez after the Great Fire of 1841" describes details of the incident and the governmental measures that were applied with a view to mitigating the damage and preventing similar incidents in the future.

"The rich and flourishing village of Mayagüez no longer exists; its houses, shops, and well-stocked warehouses are today a pile of ashes, leaving only one of the largest villages of this island the few houses it has on the beach and some others at the opposite end." The Governor and Captain General of Puerto Rico, Santiago Méndez Vigo, described the tragedy experienced by the people of Mayagüez after the fire of January 30, 1841. The event would be immortalized in the collective memory of the people and to this day it is remembered as the "Big Fire". Of 700 houses that made up the urban area, about 40 remained standing and of these only halves were useful. The houses were immediately caught in flames because they were built mostly of pine wood, with tar paint and roofed with tile."³

For a period of two years was authorized to drive on foreign ships the articles necessary for construction such as bricks, stones, lime, etc. They would give preference to cabotage trades since they were the ones to which this traffic belonged. During the months after the fire, several landowners submitted applications to the City Council with the purpose of bringing carpenters to build their houses. From the town of Trujillo Alto (closest to the Capital), a landowner asked the governor for permission to introduce from the port of San Tomas 25 carpenters and masons of free condition for the edification of Mayagüez. The neighbors were authorized, under their responsibility as applicants, to bring the workers from friendly colonies."⁴

⁴ Ibid.

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³ Vega Lugo, Ramonita "El desarrollo de Mayagüez después del Fuego Grande de 1841" http://lasa.international.pitt.edu/LASA97/vegalugo.pdf

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After the Great Fire, planning began to be conducted in the town's edification and urban reform. The edification of the town forced the formation of a plan. The layout of the land was entrusted to Don Manuel Sicardó, Master of military works. The plan had to be deposited in the Archive of the City Council so that it was available for consultation and clarification of doubts. It was warned in the governor's office that for no reason was it permissible to depart from what the plan prescribed. The space left by the destroyed houses offered the opportunity to level plots and fix the measurements of lots, blocks, and streets. The width of the streets remained to be determined, but the measurement of the blocks was regulated to 100 "varas" long by 40 wide. The arrangement of the streets would begin with those that were parallel to the Church. Between house and house, there would be an alley of two rods, leaving each owner a rod. The owners of the lots at the time of the fire preferred these. It was totally forbidden to roof the houses of tejamaní or any other species of wood. Another meeting of the City Council continued the discussion of the reforms. This time Governor Méndez Vigo was present. After a long discussion, they resolved:

- 1° That raised the plan on the primitive terrain of the town and made the regular layout of its streets, forming those from East to West 16 rods wide and those crossing from North to South of 12 as agreed.
- 2° The blocks of the houses are 80 rods in front and 40 in-depth divided into 8 equal sections. They appoint a Commission that will oversee determining the plots under the three qualifications of orders that the buildings must have.
- 3° Commission appointed for the classification of needy families among which. They would distribute the twenty thousand pesos that the government entrusted for the benefit of the population.
- 4° They point to four to six months to manufacture the owners of lots, waving to lose your right to the site.
- 5° After a long discussion they resolved: That raised the plan on the primitive terrain of the town and made the regular layout of its streets, forming those from East to West of 16 rods wide and those of crossing from North to South of 12 as agreed.⁵

After the U.S. military invasion of the island, the name of many of the streets of Mayagüez was changed following the course of the new assimilative political tendencies that were sponsored by the government in all the towns of the island. "The streets are the part that lasts the longest. The street that was used for the troops to penetrate the city was called Libertad. It was quite an intention that this date of August 11 and that glorious entry of American troops should be associated if not consciously, unconsciously, as an act of freedom." Cancel also refers to the old 11 de Agosto Street, which intersects

⁵ Vega Lugo, Ramonita, El desarrollo de Mayagüez después del Fuego Grande de 1841 Urbanización y demografía de los puertos del Caribe Español; Siglos 18 y 19, Universidad de Puerto Rico, Río Piedras Patrocinador: Asociación Puertorriqueña de Historiadores. Page. 8. PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR CITY REVITALIZATION PROGRAM (CRP)

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Independence and Nenadich streets, and which takes its name from the day of the entry of US troops into Mayagüezan soil, and which still retains its name.

Originally the street was called Calle San José, after the invasion it was called "11 de Agosto" and recently it was called Calle Ernesto Ramos Antonini." Analyzing the beautiful 1888 plan of Mayagüez, "Map of the city of Mayagüez and its contours by Federico Drouyn" (Figure 2). As indicated in the plan, it was made after the fire of 1841 that consumed almost the entire city. The map shows the public buildings and the 81 blocks that make up the urban area of the city. Among the geographical elements highlighted are topography, and areas wooded and agricultural, roads and paths, rivers and streams, haciendas, and neighborhoods. According to the census, the city of Mayagüez had about 11,451 inhabitants in December 1887. In 1888 the area of the Licentiate Rodriguez Silva and Bosque streets was not part of the urban grid. These lands were dedicated to the planting of sugar cane. (Figure 3).

As can be observed in Efraín Martell's 1910 Plan of Mayagüez, in the 1910s the process of expansion of the urban area of Mayagüez took place towards the North and East sectors (Figure 3).8 Cartographic evidence shows the initial stages of the development of the residential sector where the project is located beginning after1910's. The 1910 Plan evidence that this land was still part of the sugar cane fields of Mayagüez. It is important to note the historical aspect that in 1911 the College of Agriculture was founded in Mayagüez, and a year later, became the College of Agriculture and Mechanical Arts (CAAM), currently known as the Mayagüez Campus (RUM) of the University of Puerto Rico.

⁶ History full of substance behind the streets of Mayagüezanas Posted by Mario R. Cancel on 10 October 2010 http://historiapr.wordpress.com/category/historia-de-mayaguez/

⁷ https://www.geoisla.com/2018/09/plano-de-mayaguez-1888/

⁸ Map of Mayagüez of 1910, by Efraín Martell, Mayagüez Historical Archive.

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During the Spanish-Cuban American War, the city of Mayagüez was occupied by U.S. troops for two years. After the initial period of occupation, the new forms of American institutional architecture were inserted in the city, coexisting from this period on, with the traditional forms of colonial architecture under Spain. As a result of this process, the architecture of the city of Mayaguez began a period of transformation under the new American influences. In the description made by Lieutenant William H. Armstrong between 1908 and 1912, the following characteristics of the city of Mayagüez are noted:

- ❖ The city is well known for the War Department.
- Almost all commercial buildings are masonry and two-story. No comment should be made on the architectural features except that the style is a mixture of Spanish and Moorish with a touch of Romanesque here and there.
- ❖ The roofs are built in flat brick and concrete design, to allow their use if necessary.
- ❖ The bricks are made by the indigenous people and are generally very soft. Its dimensions are 10 X 5 1/2 by 2 inches.
- ❖ The new Puerto Rican architecture admits no comparison for its uniqueness and is unknown anywhere else in the world since indigenous builders only try to imitate American design.
- ❖ The new building of the College of Agriculture, which will be located near the Experimental Station, will be an American building. The new laboratory of the Experimental Station is an excellent building and would be an excellent hospital.
- ❖ The new concrete reformatory that is being built is located beyond Guanajibo and will accommodate three hundred young people.
- ❖ The Mayagüez Infantry Barracks are used today as jail headquarters, for the police, and for municipal and federal courts. The state of the buildings and grounds is consistent with the ideas of the indigenous people. These buildings and their grounds were temporarily handed over to the island government in excellent condition. Today the gates are falling, the gardens are neglected, and the grass that once decorated the Plaza de Armas no longer exists.
- ❖ The Military Hospital is used for school purposes but has received little or no attention since the Americans left.
- There are two lumber mills where wood is cut and sanded, both of which receive their motive power from old British steam engines.
- ❖ The library occupies the ground floor of the City Hall on Calle Candelaria.
- ❖ City Hall measures 130.9 feet in front and 94 feet wide.
- ❖ The Fire Department is an annex to City Hall and is 71 feet long. In this same section is the police headquarters.

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❖ The market square is an iron and masonry structure with two wings. The base is made of concrete and the structure of iron. It measures 200 feet long by 146 wide.⁹

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On October 11, 1918, the city of Mayagüez was struck down by an intense earthquake followed by a great tsunami. The earthquake reached an approximate magnitude of 7.3 on the Richter Scale and claimed the lives of 116 people. After the San Fermín earthquake of 1918, the city of Mayaguez was rebuilt again. The devastating San Fermín earthquake destroyed 700 masonry houses; and more than a thousand wooden houses and, 116 people lost their lives. "In the short time of the first shock, old houses and buildings collapsed and modern buildings also suffered, with few exceptions. 10 They slept in the courtyards and in the streets and took refuge in the wooden houses that, although they moved like "barcasas" in a stormy sea, did not collapse, trembling, like masonry houses. 11 "Among the public buildings destroyed by the earthquake were, the Infantry Barracks, the customs of times of Spain, the federal customs, the town hall or Municipality was unusable and then had to be destroyed to build the new consistory. The Catholic church lost its two towers and was badly damaged and the Federico Degetau, the first building of the College of Agriculture and Mechanical Arts, of which only its emblematic Portico remained. 12

The reconstruction of the city of Mayagüez after the earthquake of 1918 is attributed to Don Juan "Juanín" Rullán Rivera, a farmer of great initiatives who directed the municipal administration for twelve years, during the period from 1920 to 1932. 13 Rullán Rivera outlined a vast program of reconstruction of public buildings, streets, and services that had been left in ruins due to the terrible earthquake. The magnificent building of the mayor's office of Mayagüez was built by his Administration, a building that stands as a tribute to his memory. He undertook the difficult work of cleaning up the debris of the earthquake and rebuilding it completely so that Mayagüez could return to its normal life as a progressive town. He is credited with the works of the aqueduct, the asphalt of all urban streets, the reconstruction of the San Antonio Hospital, and the installation of the first water filtration plant for public consumption in Puerto Rico. 14

¹² Ibid.

⁹ Amstrong, William H., The Cartographic Journey of Lieutenant William H. Amstrong, 1908-1912, Vol 2, FPH y CIH, Ediciones Puerto, 2020. Pages. 361-366.

¹⁰ 1918 San Fermín earthquake, https://www.mayaguezsabeamango.com/archivos/historias-final/1614-el-terremoto-de-san-fermin-de-1918-2018

¹¹ Ibid.

¹³ Ibid.

¹⁴ Ibid.

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It was during the period of the second reconstruction of the city of Mayagüez, after the earthquake of 1918 when part of the lands dedicated to the planting of sugar cane began to be urbanized. The sector to the north of the main road that connects the urban center and the port of Mayagüez was integrated into the urban context. The sector between Méndez Vigo Street and the Yagüez River was urbanized between the 1930s and 1940s. In this period the street Licenciado A. Ramírez Silva was traced perpendicular to Méndez Vigo Street. The length of the street is limited by the presence of the Yagüez River in the north section, so it makes a 90-degree turn to the east. The east Section was called Bosque Street.

In the determination made by the Office of Historical Heritage Built Mayagüez Region, Architect Mildred González stipulates the following aspects of the urban development process of the Ensanche Martínez:

"It is an area that, subject to the processes set forth in Volume X of the Joint Regulations, meets the eligibility criteria and possesses the merits to be designated as a historic zone.

- a. XIX-XX Century: Martínez and Bianchi families. The original owners of the agricultural lands from which the farm was segregated for the urban development of the Ensanche Martínez belonged to the sugarcane colonists, landowners' descendants of wealthy families who owned old sugarcane plantations and sugar mills in the western region. Specifically related to the "Factoría Central Pagán" and Central Bianchi in Añasco and Central Coloso in Aquada. The 1888 map shows structures on the eastern end of the APE. (Figure 2).
- b. Twentieth Century Ensanche Martínez: Beginning of the urban development (Ensanche) of the city of Mayagüez (from old cane fields to new houses). The period in which agricultural land began to transmute its value to become commodity spaces that would be negotiated in the real estate market. The deeds of segregation of the plots (c. 1930 and established parameters for the use (exclusively residential, not commercial, or industrial), type of construction (minimum measures of front, side, and rear patios, perimeter fence, etc.), and a minimum cost of construction of \$ 2,500.00.

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c. Reflects the historical scenario that preceded the passage of the Puerto Rico Land Act of 1941. Weakened agriculture gave way to industrialization which allowed the growth of the consumer middle class. The residences built in the Ensanche Martínez, in the decade of the 1930s, were of unique, individual, and "modern" designs sponsored by traditional families and their new generations (middle and upper middle class).¹⁵

The area was developed as a residential sector where the houses were arranged in large plots of land for the construction of high and expenses residences, forming an exclusive residential sector of the city. The typical architectural expression of the sector is Spanish revival. This urban residential sector is a contributing sector to the known eligible historic district, and it is part of the Mayagüez Traditional Urban Center.

The Barket Residence (Casa Barket), located on Calle Bosque #70, was declared a historic residence. This house was built in 1939 and is representative of the historic period in the urban development in the sector.

¹⁵ Arquitecta Mildred Gonzalez-Valentin, Built Historical Heritage Program, Mayagüez Region. Written communication of July 17, 2023.

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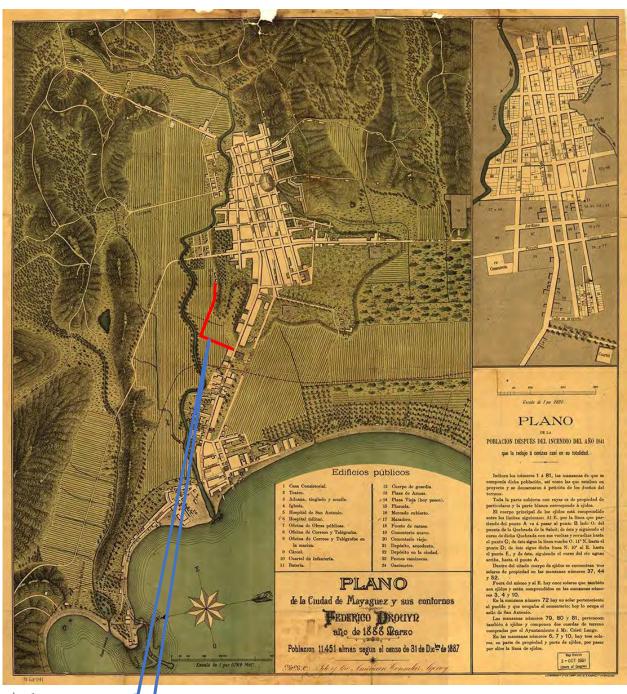
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Figure 2: Mayagüez, Puerto Rico, 1888 Plan showing approximate APE.

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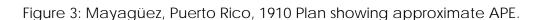
https://www.geoisla.com/2018/09/plano-de-mayaguez-1888/ Source: <u>Library of Congress</u>.

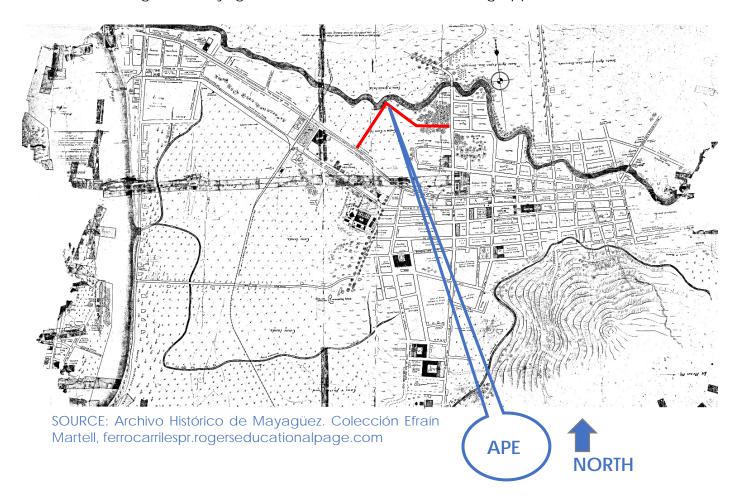
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Analysis of historical topographic quadrangles and aerial photographs.

Figure 4: USGS Historical Topographic Quadrangle 1930. 1:30000.



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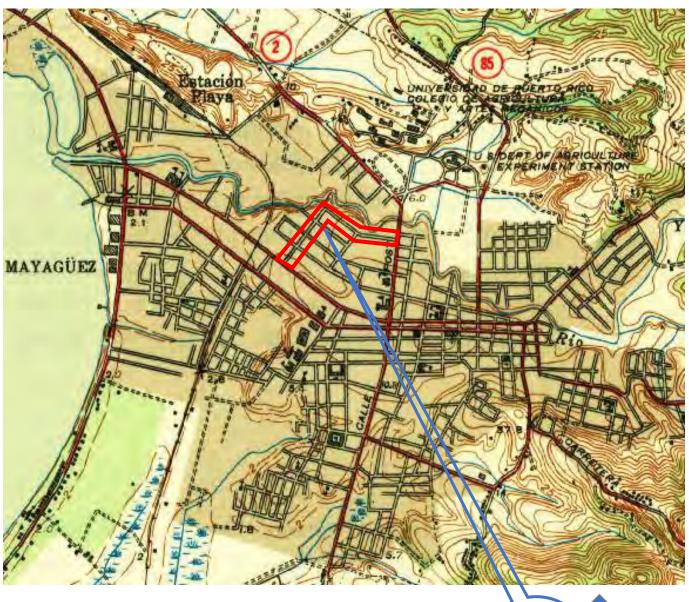
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Project (Parcel) Location - USGS Historic Topographic Map

Figure 5: USGS Historical Topographic Quadrangle 1947. 1:30000.



Source: USGS Topographical Maps

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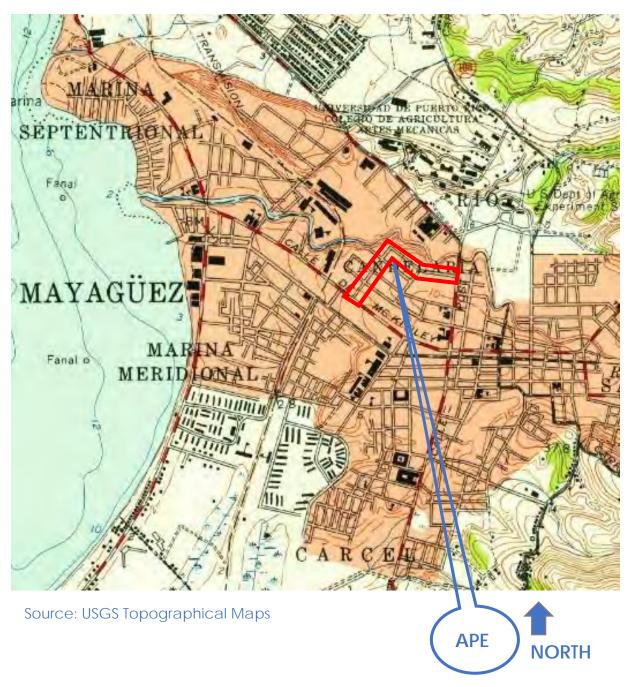
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Project (Parcel) Location - USGS Historic Topographic Map

Figure 6: USGS Historical Topographic Quadrangle 1955. 1:20,000



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Project (Parcel) Location – USGS Historic Topographic Map

Figure 7: USGS Historical Topographic Quadrangle 1964. 1:20,000.



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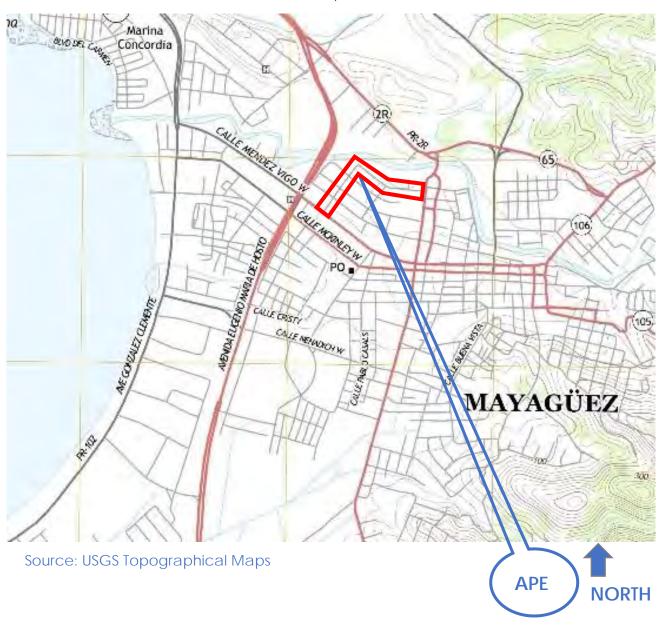
Subrecipient: Municipality of Mayaguez, Puerto Rico

Program ID Number: PR-CRP-000857

Project Name: Mejoras a calle Bosque y calle Lcdo. A. Ramírez Silva

Project (Parcel) Location - USGS Historic Topographic Map

Figure 8: USGS Topographic Quadrangle 2013. 1:20,000.



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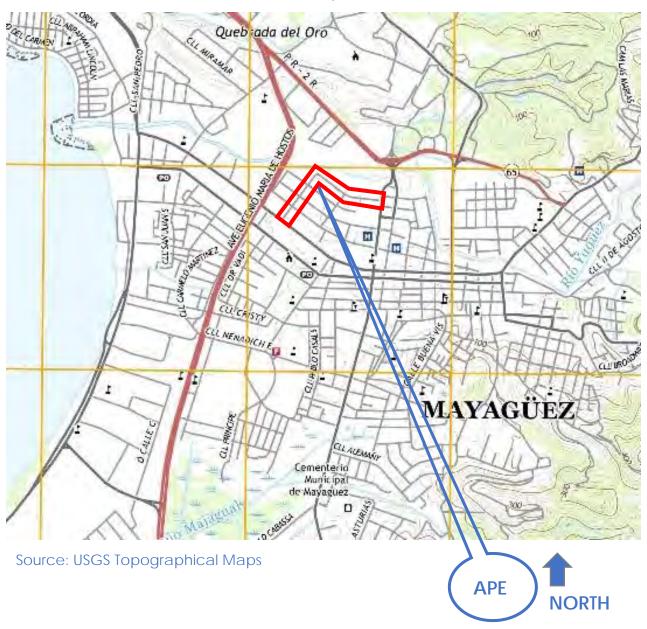
Subrecipient: Municipality of Mayaguez, Puerto Rico

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Project Name: Mejoras a calle Bosque y calle Lcdo. A. Ramírez Silva

Project (Parcel) Location - USGS Historic Topographic Map

Figure 9: USGS Topographic Quadrangle 2018. 1:20,000.



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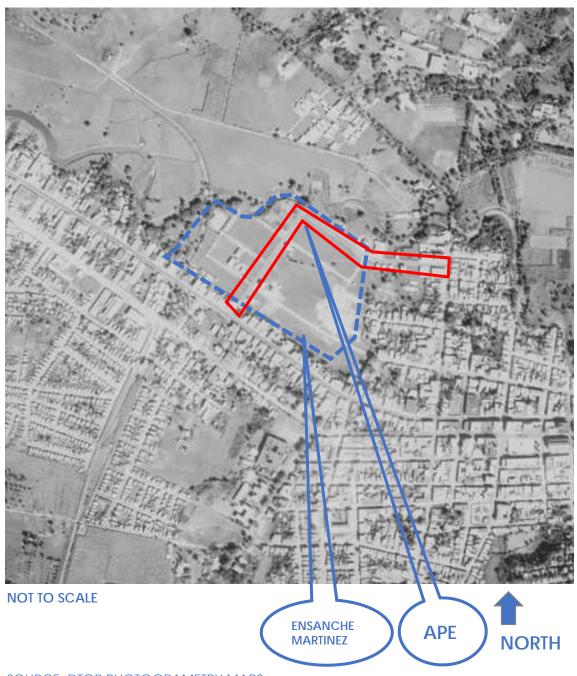


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Figure 10: Mayagüez, Puerto Rico, 1930 Aerial View showing APE.



SOURCE: DTOP PHOTOGRAMETRY MAPS

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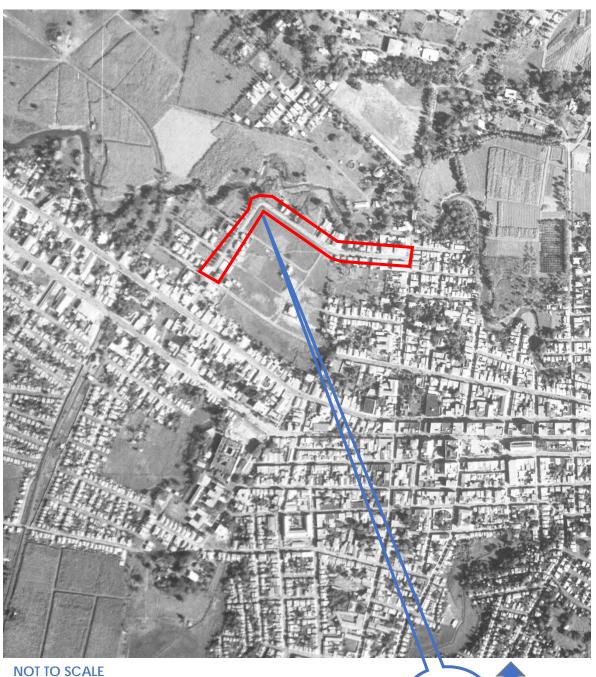
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Figure 11: Mayagüez, Puerto Rico, 1936 showing APE.



SOURCE: DTOP PHOTOGRAMETRY MAPS



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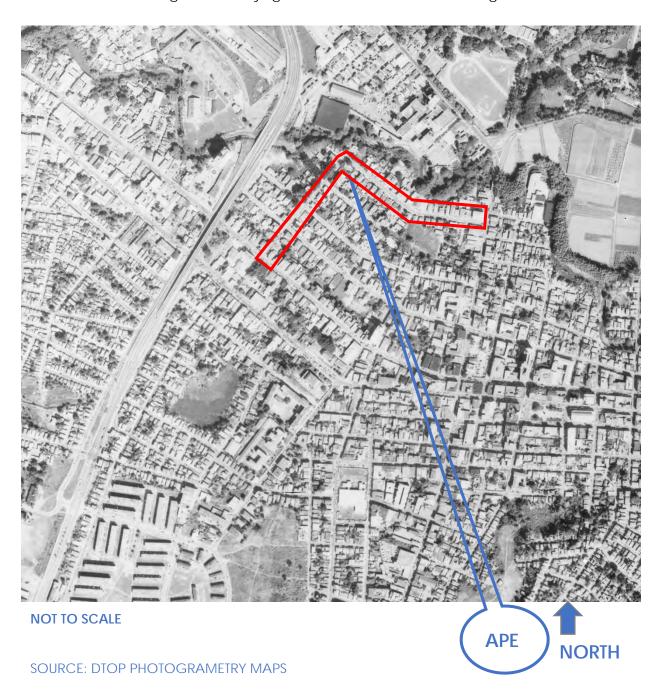


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Figure 12: Mayagüez, Puerto Rico, 1964 showing APE.



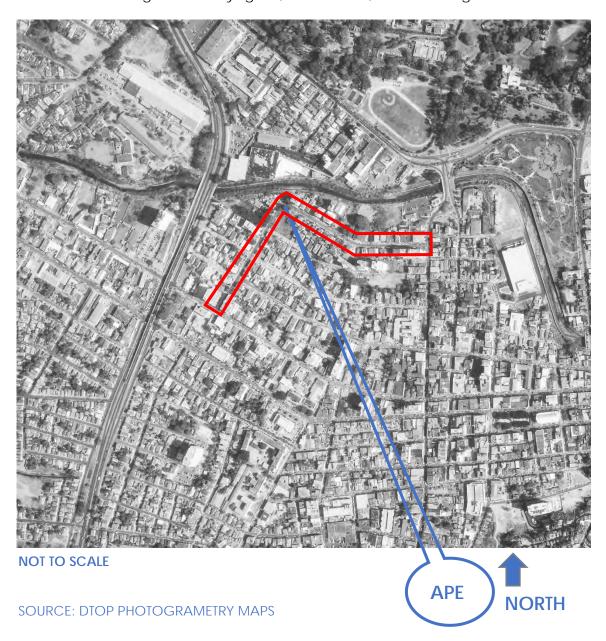
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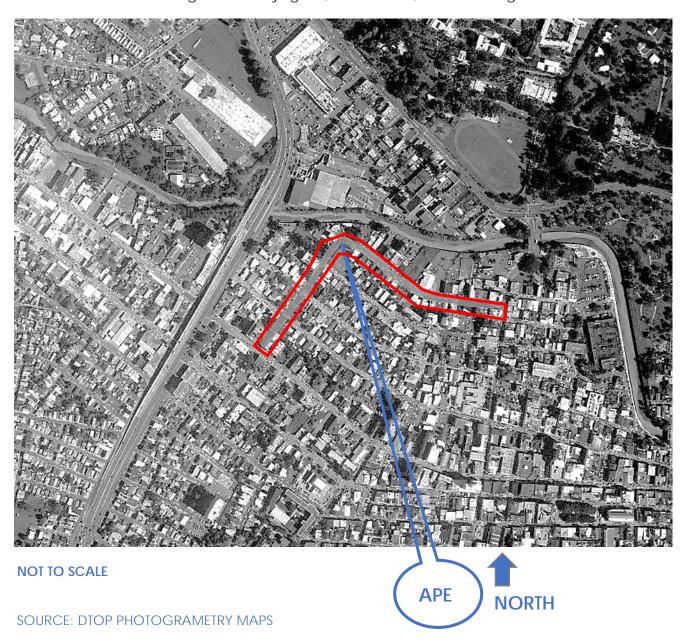
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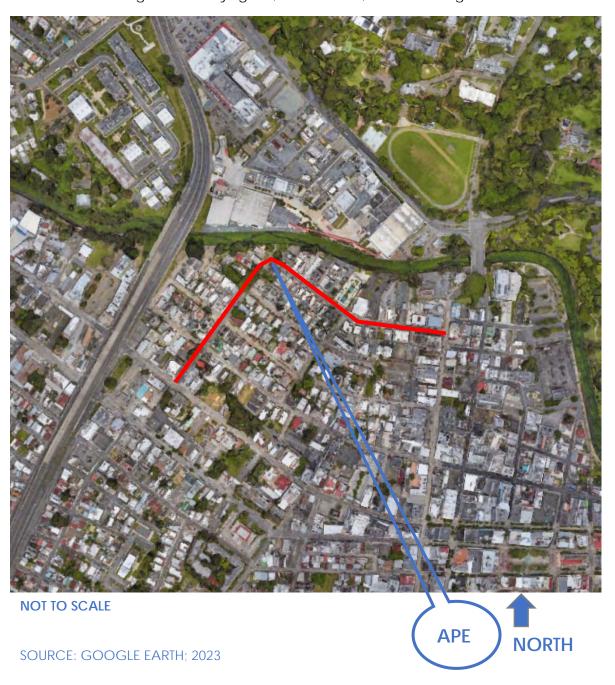


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Figure 15: Mayagüez, Puerto Rico, 2000 showing APE.



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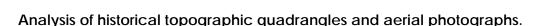
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The topographic quadrangles of 1930, 1947, 1955, 1964, 2013, and 2018 show the network of the streets of the Ensanche Martinez sector already delineated. The evidence from the analysis of the topographic quadrangles clearly shows that Bosque and Lcdo. A. Ramírez Silva streets already existed in 1930.

The analysis of all aerial photographs since 1930 clearly shows the two streets, Bosque and Lcdo. A. Ramírez Silva already constructed establishing the framework for the new urban expansion of the city of Mayaguez, Ensanche Martinez.

Identification Archaeological Resources near the project APE- Archaeology

The archaeological resources identified in the PR-SHPO Archives located closest to the project's APE correspond to seven (7) historical-architectural resources and one (1) prehistoric site. The prehistorical archaeological site corresponds to MY-93 in CAT/PAE, "Residuario Plaza Barcelona", a pre-Columbian residuary located 0.07021 miles (112 meters) to the northeast of the APE. (Figure 22). To the North, there are MY020`10021/ Jose de Diego Building (0.2615 miles to the North) UPR/administration building, and MY0200012/Casa de Camineros (0.1882 miles), and to the West is MY0200033/ Esmoris Residence (0.05281 miles). The 1888 map shows structures on the eastern end of Bosque Street, end of the APE.

The cultural resources located within or near the 1/4 miles radius from the project APE center are:

Figure 16. Barket House.

1. The Barket House (Figures 17-18) is inside project APE. The historic property is a Spanish Revival-style residence, built in 1939. Calle Bosque # 70, corner with Ramírez Silva, identified with the cadaster number 233-037-201-01-001. Casa Barket was designated a Historic Site by Resolution No. 2016-29-01-JP-SH. INVENTARIO DE RECURSOS HISTÓRICOS DE **PUERTO** RICO, propiedad: 233-037-201-01-001.



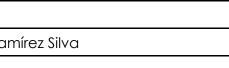
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Bianchi.16 "Barket Residence: Residential structure built in 1939. Located on a prominent corner lot, it is a representative example of the new architectural styles that were being used in Puerto Rico. In this case, the residence was built in reinforced concrete and its architectural design corresponds to the style of the Spanish Revival. It was designed by

"Mr. Arsenio Martínez-Martínez appears in the Property Registry #1 as the owner of the main property from which the lot is segregated and as representative of his wife Rosario

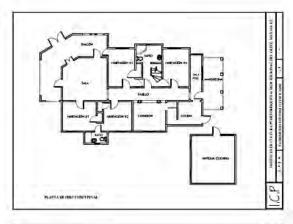
the engineer Jacinto Galib and is one of the few that are preserved in the Ensanche Martínez in its original state. Mr. Galib was part of the group of professionals that made up the Public Works Design Committee of Puerto Rico in the 1940s, reaching the position

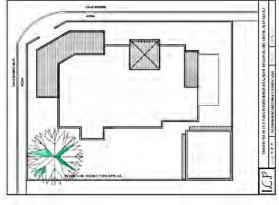
of assistant chief engineer 5.

The first decades of the twentieth century were characterized by the search for styles that were originally called "revivals" or resurgences. These styles were characterized by using reinforced concrete as the main building material. This material, plasticity, due to its allowed interpretations of decorative elements. The Spanish Revival style was presented as an alternative to the Art Deco Style. In Mayagüez, this style was developed and used prolifically in the residences located in the suburbs of the city and in the large mansions in the fields. It is characterized by using ornamental elements independent of the structure.

The ornamentation is concentrated around doors and windows contrasting with the sober surfaces around them.

Figure 17. Floor Plan Drawing. Orlando J. de la Rosa Martínez, Conservationist IV, ICP-PPHE, West Region.1





¹⁶ INVENTARIO DE RECURSOS HISTÓRICOS DE PUERTO RICO, propiedad: 233-037-201-01.

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Coats of arms, pilasters, scrolls, pinnacles, reliefs, and motifs are used in the composition of the façade. It regularly presents the use of balconies, portals, arcades, towers, moldings, carved

of balconies, portals, arcades, towers, moldings, carved ornaments, classical or Solomonic columns, grilles or wrought iron, tiled roofs, and interior courtyards. In this residence, the use of facade, the elements and vocabulary, and in the arrangement of the interior spaces there is a great influence of modernism that began to prevail at the time". ¹⁷ In 2019, Manuel Surillo, grandson of the original owners, adapted the house as a restaurant.

2. MY0200012/Casa de Camineros. Figure 19. Abandoned structure, located 0.1882 miles (303 meters) to the North of the project APE. This is a 19th-century (1883) structure located inside the UPR Mayaguez Campus. This project was designed by Manuel Maese and submitted for approval on March 12, 1882. It

consisted of two houses located on Highway number 2, one at the exit of Mayagüez and the other six kilometers in the direction of Añasco. The first survives; The second, located at kilometers 178.3, was destroyed around 1960 during the widening of the road. 18 Figure 19.

3. MY0200021- José de Diego Building, UPR/administration building. Figure 20. The José de Diego Building was built between 1913 and 1916, to serve as the Department of Science



Figure 19. José de Diego Building.



¹⁷ Ihid

¹⁸ Las Casillas de Camineros, https://aquiestapr.com/las-casillas-de-camineros/

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of the University of Puerto Rico. Is located 0.2615 miles (421.00 meters) to the North of the project the APE. By the seventies, this building became one of the historic buildings of the country, entering a directory of buildings that consider their historical importance for the nation. This historic building is at present very pleasant, and majestic, despite not having a very well-defined style, but is rather a mixture of styles. There is a wide flight of steps that will take you up a grassy embankment to the main entrance, which is flanked by two pillars supporting a frieze bearing the name of the University.

There are colonnaded balconies that extend to the front of the ground floor and there is a clock tower that is also well known throughout the campus. This building contains a library and 9 classrooms. In 1918 the building was affected by the San Fermin earthquake. The rectory area, which was the most damaged, was completely restored.

The building was baptized as José Diego, in honor of the founder of the school and an influential figure in Puerto Rico. José Diego was an important character in Puerto Rican culture. He was a journalist, statesman, poet, and lawyer, who strongly defended the independence of Puerto Rico, although he first defended independence from Spain and later, from the United States. José Diego was known within literary circles as the "Father of the Modern Poetry Movement of Puerto Rico". 19

4. MY0200033-Leria Esmoris Residence: Listed on the National Register of Historic Places in 1988.²⁰ Mansion house of José de Diego (*Residencia Lería Esmoris*) 1897. Calle Liceo 52, Mayagüez, Puerto Rico, Designed by Víctor Honoré Garaud, and Sabás Honoré

Bungalow/Craftsman style. Built circa 1921, this rectangular one-story, single dwelling dates from the reconstruction period of Mayagüez after the earthquake of 1918.

The house is on Mendez Vigo Street, the main avenue where the most exclusive residences of the period are found.



Figure 20. Leria Moris Residence.

¹⁹ José de Diego Building, Mayagüez, http://puertorico.pordescubrir.com/edificio-jose-diego-mayaguez.html

²⁰ National Register of Historic Places Registration Form. May 3, 1988. Historic name Residences Duran Esmoris, Mayaguez, PR. https://npgallery.nps.gov/NRHP/GetAsset/NRHP/88000655_text

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Reinforced concrete was the main material used, as wood for ceilings, and zinc for roofing. The house is elevated about 3' from the ground level in response to a legal requirement at the time. A balcony, one of the house's main elements, curves from the front facade into the lot, leading vehicles inside the adjoining carport. The prefabricated concrete balustrade is finished with colored glass surface inserts. The original kitchen is in the structure's basement and is finished with white tiles, a marble counter and tabletops. This space has been used as storage in recent years. The house is organized around a long, high hallway to which all rooms connect. On its south side, we find 1 the -living and dining areas. In its northern part, we can see a large family room with a bar, next to which is access to the basement kitchen. A "Medio Punto" or wood screen separates a small foyer from the family room. All rooms are ventilated by louvered doors and windows and perforated transoms which allow air to flow freely. 'The'-living-'room is "the house's most striking feature". It includes another "Medio Punto" that articulates the space into two areas. It is carved in a dark wood, evocative of classical elements. It is a unique version of this architectural device.

Different geometric mosaic patterns enhance the quality of the space, as do stained glass windows and doors of Art Nouveau influence. A wide cornice makes the transition, between the concrete walls and the elaborate stucco ceiling of Rococo influence. Main alterations include the change of floors from wood to cement tile. Both the scale and detailing of the Duran Esmoris Residence make it one of Mayagüez's most impressive and important structures. It is one of the few remaining houses that succeeds in recalling the original character of Mendez Vigo St. In its proportioning of interior spaces, this house reaffirms the predilection Mayagüez has traditionally had for tall halls.

The presence of two Medio Puntos, the excellence in craftsmanship, and the use of stained glass and mosaic are all essential to the nature and architectural value of the house. The people related to the house, architects, and dwellers, have all been prominent members of the city's society.

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Architect Luis F. Nieva was a well-known figure in his own time and his work has just recently begun to spur interest among scholars. His work reflects the architect's classical ideas to integrate vernacular building tradition. The scale and proportion of spaces make this structure truly characteristic of its milieu. Nieva owned a factory, La Mayagüezana, which produced mosaic tile, prefabricated architectural elements, and other decorative building devices. The Duran Esmoris family arrived from Spain in 1844 and settled in Mayaguez in 1860 where they developed a construction material business and wholesale food products. They have played an important role in the economic and civic life of Mayaguez and are one of the city's main employers.²¹

5. MY0200034- Residencia Gómez. Historic/residential urban. Located at Calle Méndez Vigo #60 in Mayagüez, Puerto Rico. Included in the NRHP in 1988. Private residence designed by prominent architect Francisco Porrata Doria in a Mission/Spanish Revival, neo-Andalusia style, and was built in 1933.



Figure 21. Gómez Residence.

²¹ El Reportero, "Cinco Generaciones en los Negocios Esmoris Inc." May 1983 Rivas, Matei, "Mas altas más esbeltas" periódico El Nuevo Dia, March 8 1984.

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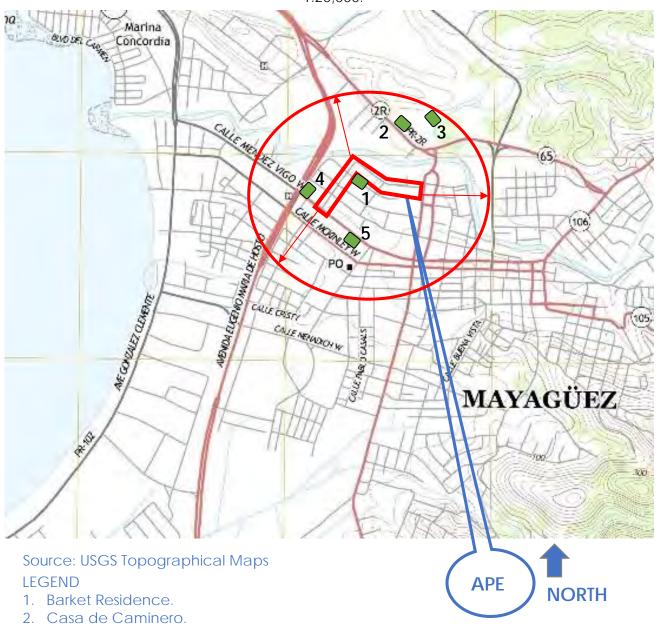
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José de Diego Building.
 Leria Esmoris Residence.
 Gómez Residence.

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Figure 22: USGS Topographic Quadrangle 2013 showing Cultural resources, within ¼ Mile from APE 1:20,000.

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Table 1: Cultural resources in project APE and, within a radius of 1/4 miles of the APE.

Cultural resource	Description	Constructi on date	Architect/ designer	Distance from project APE
Barket house Calle Bosque #70, corner with Ramírez Silva.	The historic property is a Spanish Revival-style residence.	Built-in 1939.	Designed by Jacinto Galib	0.00 miles
2. MY0200012/Casa de Camineros	Abandoned structure. This is a 19th-century structure located in the UPR Mayaguez Campus.	Built-in 1883	Designed by Manuel Maese	0.1882 miles (303 meters)

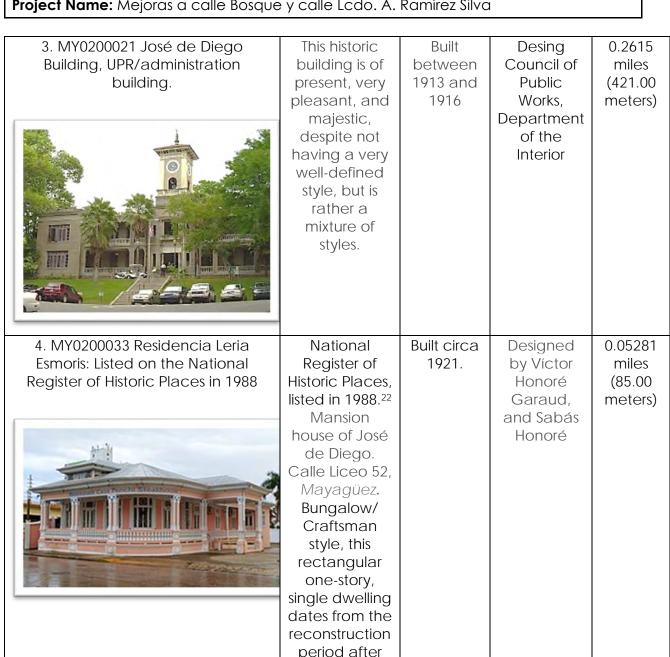
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the earthquake of 1918.

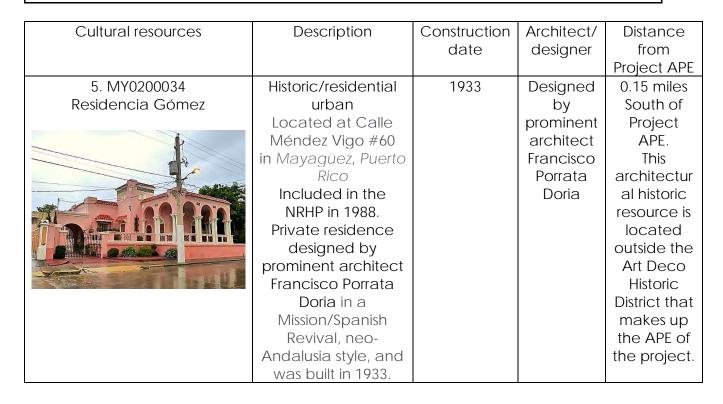
²² National Register of Historic Places Registration Form. May 3, 1988. Historic name Residences Duran Esmoris, Mayaguez, PR. https://npgallery.nps.gov/NRHP/GetAsset/NRHP/88000655_text

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Table 2: Archaeological Reports in the project APE and within a radius of 0.25 miles of the APE.

Project Name / Date	Phase	Archaeolo gist	Results	Distance to Project APE
1. Underground improvements of electrical utilities Post Street, Mayagüez. 2004	Monitory	Eduardo Questell Rodriguez	Positive Pre Columbian Residuary	0.0 miles
2. Plaza Barcelona, 2010 ICP/CAT-MY-10-16-02	Phase IA/IB	Juan González Colon	Negative Recommends Endorsement	0.08947 Northeast (144 meters)
3. Evaluación de Recursos Culturales Proyecto Plaza Barcelona, Bo. Pueblo, Mayagüez, PR. 2010	Phase IA-IB	Juan González Colon	Negative Construction of residential building on the property of 3,631.56mc, Town/Candelaria Map of the property with the location of 7 boreholes The study appears to have been initially conducted at the request of ICP in 2010, it was submitted to SHPO in 2012.	0.08947 Northeast (144 meters)

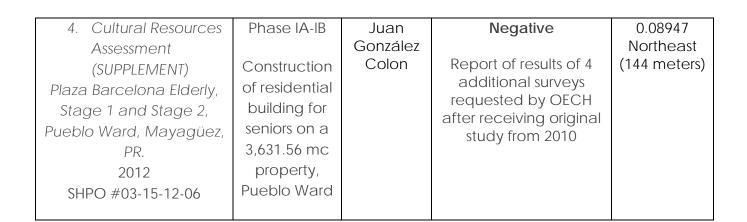
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Analysis

In the general area of the project, a pre-Columbian cultural resource identified in ICP/CAT/PAE with the code MY-93 Plaza Barcelona is reported. The archaeological site is not yet registered in the PR-SHPO digital database. This site was identified and reported to ICP/CAT/PAE by archaeologist Juan Gonzales during Phase IA-IB investigation of the parcel proposed for constructing the Plaza Barcelona building. The Phase IB investigation of eleven (11) boreholes was conducted in the 3,631.56 mc property with negative results. Based on the results, the project Plaza Barcelona, a residential building for the elderly, was endorsed by PR-SHPO in 2012. Plaza Barcelona Project is located 0.084 miles (136 meters) Northeast of the APE.

In an interview with Archaeologist Juan Gonzales on July 8, 2024, Gonzales said there is a considerable positive archaeological area to the south of the Plaza Barcelona Building. González estimates that the site runs under the streets and in the spaces that have not yet been built in that area. González interprets it as an extensive site, probably corresponding to an indigenous village. With the Yagüez River channeling project in 1970, the topography of the sector was modified, when they relocated the river's original course to allow its channeling. In the area south of the Plaza Barcelona building there is evidence of a pre-Columbian site that was impacted since ©1950 by the construction of streets, infrastructure, residences, and commercial buildings in that area. The archaeologist observed flint flakes in the area, which is why it is considered that this area was part of the archaeological site.²³

Based on the analysis of files information, and the information offered by archaeologist Juan González, it is highly recommended that the project under evaluation be conducted under Archaeological Monitoring.

²³ Gonzalez, Juan, Interview by N. Medina-Carrillo on July 8, 2024.

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Figure 23: Archaeological Reports in and within a radius of 0.25 miles from the project APE.



- 01. Underground improvements of electrical utilities Post Street, Barrio Pueblo, Mayagüez, 2004.
- 01. Plaza Barcelona, Barrio Pueblo, Mayagüez, 2010. MY-93 in CAT/PAE, Residuario Plaza Barcelona, a pre-Columbian residuary, located 0.084 miles (136 meters) to the northeast of the APE, (Bosque Street).

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Discussion

The sector where the project is located was originally part of the alluvial valley of the Yaquez River. In early Spanish colonial times, it was known of the existence of an indigenous village near the mouth of the Guaorabo River, today the jurisdiction of Mayaguez (5.096 miles North of the project APE).²⁴ A prehistorical archaeological site was identified by archaeologist Juan Gonzalez in 2012. This site corresponds to MY-93 in CAT/PAE, "Residuario Plaza Barcelona", a pre-Columbian residuary located 0.07021 miles (112 meters) to the northeast of the APE.

During the Spanish colonial period and the early American colonial period, the lands north and south of the Yagüez River were dedicated to sugar cane crops. The cane fields occupied the area where the Ensanche Martínez was built towards the end of the 1920s, a time when the cane fields were eliminated to make way for the urban development of Mayagüez in this area.

In 1920, the lands of the Ensanche Martínez belonged to the sugar settlers Martínez and Bianchi families. The development of the sector began with the infrastructure of streets and the parceling of land into large residential lots for sale. The process of selling and building houses was aimed at well-to-do people with high incomes.

The residences built in the Ensanche Martínez showed an architecture representative of the styles of this period between the late 1920s and early 1940s. At present, the area preserves numerous houses with architectural historical value. In the opinion of architects Mildred Valentin and Carlos Ferrán, that can be defined as a Historic District. "Based on its architecture, the urban residential sector forms a Historic District." 25

Based on the above, we understand that the architectural historical value of this District of Mayagüez merits an inventory study investigation and a possible nomination to the National Register of Historic Places in Washington D.C. Because of the vicinity of the pre-Columbian site MY-93 in CAT/PAE, "Residuario Plaza Barcelona", we also recommend conducting archaeological monitoring during the deep trench excavations process for the new electrical infrastructure installations. The project APE was developed in the interior of the sugar cane fields, and grasslands (Figure 2).

²⁴ Orígenes Mayagüezanos, https://www.mayaguezsabeamango.com/archivos/historiasfinal/605-origenes-mayaqueezanos

²⁵ Architect Mildred Gonzalez-Valentin, Historical Heritage Program, ICP. Mayagüez Region. Written communication of July 17, 2023.

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Identification of Historic Properties - Architecture

Existing information on previously identified historic properties has been reviewed to determine if any such properties are located within the APE of this undertaking. The review of this existing information, by a Program contracted Historic Preservation Specialist meeting the Secretary of the Interior's Professional Qualification Standards (36 CFR Part 61), shows that the project area is within the boundaries of the National Register of Historic Places (NRHP)-eligible Mayagüez Traditional Urban Center.

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It is interesting to point out that the initial development of the Ramírez Silva Street, perpendicular to the Mendez Vigo, could be identified as the starting point of this special Historic District. Most of the original properties that were constructed and still remains are located on this road. As you move toward Bosque Street, a trip travelled of an historic development can be traced.

Fine examples of well-constructed properties that ranges from the turn of the 19th deep into the 20th Century, between the Spanish Revival toward the Puerto Rico's Vernacular Moderne Creole Architecture Styles can be observed, as you progress through the street. Also, especially with the North- American Influences, very good examples of Late Art Deco combine with International Moderne and California Bungalow Styles properties can be identified, as well.

Well-developed adult trees on some lots remain providing a very distinct quality shaded urban street space that could have been enjoyed when the whole street lots were occupied.

The Lcdo. A. Ramírez Silva and Bosque Streets are part of the NRHP eligible Mayagüez Traditional Historic Center can now be identified as another example of the following adverse existing urban situations that are common in most traditional centers of Puerto Rico, due to the facts of the loss of important and significant cultural resources which includes historic continuity, especially the Puerto Rican cultural heritage, architecture, mature existing vegetation (trees), sense of place and community.

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The photographs on Figures 23 and 24 are from the APE and showing non-contributing, and non-eligibles properties to the Mayagüez Traditional Urban Center.

Figure 24. Buildings at Lcdo. Ramirez Silva Street





Figure 25. Buildings at Bosque Street.

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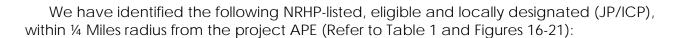
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0	NRHP-listed: 88000655	Leira Esmoris, Residencia	Méndez	Vigo
	B204 L204.			
0	NRHP-listed: 88000965	Fuentes, Ramírez, Residencia	Calle Me	éndez
	Vigo #117.			
0	NRHP-listed: 88000656	Gómez Residencia	Méndez	Vigo
	No. 60			
0	NRHP-listed: 86000624	José De Diego, Residencia Solariega	52 Liceo S	t.
0	JP/ICP Listed: Barket Residence		Bosque	#70,
	corner with Ramírez Silva S	Street		
0	Eligible: Casa de Caminei	OS	Inside Univ	versity
	of Puerto Rico Mayaguez	Campus		

NHRP eligible properties are shown in the Aerial Maps, Figures 26 (Pages 47-52), Figure 27 (Pages 53-55), and Figure 28 (Pages 56-57), with descriptions and photographs.

To be eligible for the listing, a property must be at least 45 years of age and possess significance in the history and culture, architecture, or archeology. It can be stated that all four Criteria can be applied and should be considered:

- 1. Criteria A: Associated with events that have made a significant contribution to the broad patterns of our history.
- 2. Criteria B: Associated with the lives of persons significant in our past.
- 3. Criteria C: Embodied the distinctive characteristics of a type, period or method of construction or that represent the work of a master, or that possess high artistic value, or that represent a significant and distinguishable entity whose components may lack individual distinction.
- 4. Criteria D: Yield, or may likely to yield, information important in prehistory or history.

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR CITY REVITALIZATION PROGRAM (CRP) Section 106 NHPA Effect Determination

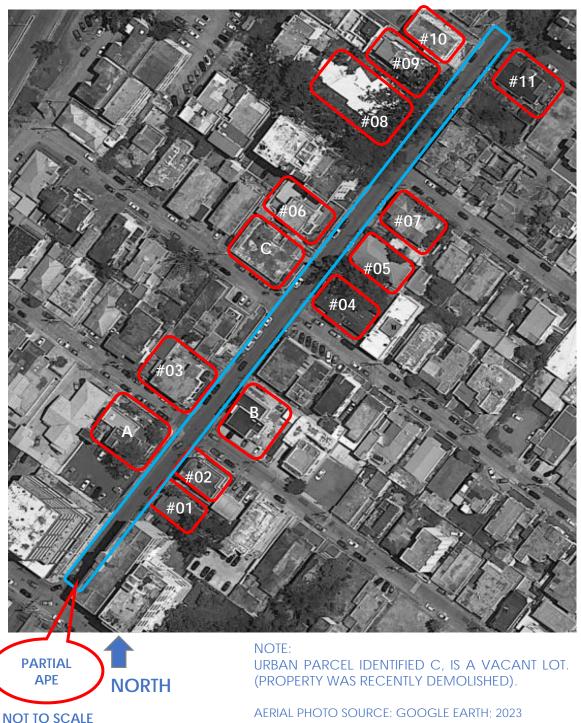


Subrecipient: Municipality of Mayaguez, Puerto Rico

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Figure 26: Mayagüez, Puerto Rico. Plan showing partial APE (Lcdo. A. Ramírez Silva Street) with potentially eligible historic and contributing properties.



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LEGEND FOR LCDO. A. RAMIREZ SILVA STREET, (FIGURE 26)



APE. Contributing and eligible property #01. Lcdo. A. Ramírez Silva Street, East-South view. Puerto Rico Moderne Creole Style with North American California Bungalow Influences. © 1925-40. Materials: Reinforced Concrete and wood windows. Photo #03.



APE. Contributing and eligible property #02. Lcdo. A. Ramírez Silva Street, East view. Puerto Rico Vernacular Moderne Creole Style. © 1925-40. Material: Reinforced concrete. Photo #10.



APE. Contributing and eligible property #03. Corner of Lcdo. A. Ramírez Silva and José de Diego Street, West view. Puerto Rico Vernacular Moderne Creole Style. © 1925-40. Materials: Reinforce concrete. Photo #13.

CITY REVITALIZATION PROGRAM (CRP)

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Project Name: Mejoras a calle Bosque y calle Lcdo. A. Ramírez Silva

LEGEND FOR LCDO. A. RAMIREZ SILVA STREET, (FIGURE 26)



APE. Contributing and eligible property #04. Corner of Lcdo. A. Ramírez Silva and Acacia Streets, East view. Puerto Rico Vernacular Moderne Creole Style. © 1925-40. Material: Reinforced concrete and masonry. Photo #17.

OVERNMENT OF PUERTO RICO



APE. Contributing and eligible property #05. Lcdo. A. Ramírez Silva Street, North-East view. Puerto Rico Vernacular Moderne Creole Style. © 1925-40. Material: Reinforced concrete and masonry. Photo #19.



APE. Contributing and eligible property #06. Lcdo. A. Ramírez Silva Street, West view. Puerto Rico Spanish Revival Style. © 1925-40. Material: Reinforced concrete and masonry. Photo #21.

CITY REVITALIZATION PROGRAM (CRP)

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Program ID Number: PR-CRP-000857

Project Name: Mejoras a calle Bosque y calle Lcdo. A. Ramírez Silva

LEGEND FOR LCDO. A. RAMIREZ SILVA STREET, (FIGURE 26)



APE. Contributing and eligible property #07. Lcdo. A. Ramírez Silva Street, East view. North American California Bungalow Style. Front Porch Column Detail. © 1925-40. Materials: Reinforced concrete, masonry, wood ceilings, Creole Style floor tiles, corrugated metal panels roof finished. Photos #23-28.

OVERNMENT OF PUERTO RICO



APE Contributing and eligible property #08. Lcdo. A. Ramírez Silva Street, North-West view. North American International Modern Style. © 1960. Material: Reinforced concrete and masonry. Photo #29-31.



APE Contributing and eligible property #09. Description: Lcdo. A. Ramírez Silva Street, West view. Puerto Rico Spanish Revival Style. © 1925-40. Material: Reinforced concrete and masonry. Photo #35.

CITY REVITALIZATION PROGRAM (CRP)

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Project Name: Mejoras a calle Bosque y calle Lcdo. A. Ramírez Silva

LEGEND FOR LCDO. A. RAMIREZ SILVA STREET, (FIGURE 26)



APE. Contributing and eligible property #10. Lcdo. A. Ramírez Silva Street, North-West view. Puerto Rico Late Art Deco with Moderne International Style Influences. © 1940-45. Material: Reinforced concrete and masonry. Photo #36-37.

OVERNMENT OF PUERTO RICO



APE. JP/ICP listed. Contributing. Barket Residence #11. Corner of Lcdo. A. Ramírez Silva and Bosque Streets, South view. Puerto Rico Spanish Revival Style,1939. Materials: Reinforced concrete, wood windows and masonry. Photo #39-42.

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Program ID Number: PR-CRP-000857

Project Name: Mejoras a calle Bosque y calle Lcdo. A. Ramírez Silva

LEGEND FOR LCDO. A. RAMIREZ SILVA STREET, (FIGURE 26)



APE. Contributing and non-eligible property. **Identified A**, Lcdo. A. Ramírez Silva Street, South-West view. Puerto Rico Vernacular Modern Creole Style with interventions. Material: Reinforced concrete and masonry. Photo #12.

OVERNMENT OF PUERTO RICO



APE. Contributing and non-eligible property, **Identified B,** Lcdo. A. Ramírez Silva Street, North-East view. Puerto Rico Spanish Revival Style with interventions. Material: Reinforced concrete and masonry. Photo #11.



APE, **Identified C**, empty urban parcel, Lcdo. A. Ramírez Silva Street, North view.

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Project Name: Mejoras a calle Bosque y calle Lcdo. A. Ramírez Silva

LEGEND FOR BOSQUE STREET- FIRST SEGMENT, (FIGURE 27)



APE. Contributing and eligible property #12. Bosque Street, South view. Puerto Rico Modern International Style. ©1960. Materials: Reinforced concrete, natural stone finished on porch and base. Photo #44.

OVERNMENT OF PUERTO RICO



APE. Contributing and eligible property #13. Bosque Street, East Front view. Puerto Rico Vernacular Moderne Creole Style with some Spanish Revival Influences. ©1925-40. Materials: Reinforced concrete, masonry, Arabic ceramic roof tile on porch and windows overhangs. Photo #49-50.



APE. Contributing and eligible property #14, Bosque Street, South view. Puerto Rico Moderne International Style. ©1960. Material: Reinforced concrete. Photo #52.

CITY REVITALIZATION PROGRAM (CRP)

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Program ID Number: PR-CRP-000857

Project Name: Mejoras a calle Bosque y calle Lcdo. A. Ramírez Silva

LEGEND FOR EL BOSQUE STREET- FIRST SEGMENT, (FIGURE 27)



APE. Contributing and eligible property #15. Bosque Street, South-West view. Puerto Rico Late Art Deco with Moderne International Style Influences. © 1950. Material: Reinforced concrete. Photo #54.

OVERNMENT OF PUERTO RICO



APE Contributing and non-eligible property, Identified D. Bosque Street, South-West view. Puerto Rico Vernacular Modern Creole Style with some Spanish Revival Influences with interventions. ©1950. Material: Reinforced concrete.



APE. Contributing and non-eligible property, **Identified E**, Bosque Street, North view. Puerto Rico Vernacular Modern International Style with interventions. ©1950. Material: Reinforced concrete.

SOURCE: GOOGLE EARTH, 2023.

CITY REVITALIZATION PROGRAM (CRP)

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SOURCE: GOOGLE EARTH; 2023

CITY REVITALIZATION PROGRAM (CRP)

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LEGEND FOR EL BOSQUE STREET, SECOND SEGMENT, (FIGURE 28)



APE. Contributing and eligible property #16. Corner of Bosque Street and Ramón Emeterio Betances Streets, East-North view. Late Spanish Revival. ©1950. Material: Reinforced concrete and masonry. Photo #62-64.

OVERNMENT OF PUERTO RICO



APE. Contributing and non-eligible property, **Identified F**, Bosque Street, South view. Puerto Rico Vernacular Modern International Style with interventions. ©1950. Material: Reinforced concrete.

CITY REVITALIZATION PROGRAM (CRP)

Section 106 NHPA Effect Determination

Subrecipient: Municipality of Mayaguez, Puerto Rico

Program ID Number: PR-CRP-000857

Project Name: Mejoras a calle Bosque y calle Lcdo. A. Ramírez Silva



Determination

There are not any NHRP listed historic properties within the APE. We have identified the following NRHP-listed, eligible and locally designated (JP/ICP), within ¼ Miles radius from the project APE (Refer to Table 1 and Figures 16-21):

- o NRHP-listed: 88000655, Leira Esmoris, Residencia, Méndez Vigo Street B204 L204.
- o NRHP-listed: 88000965, Fuentes, Ramírez, Residencia, #117 Méndez Vigo Street.
- o NRHP-listed: 88000656, Gómez Residencia, #60 Méndez Vigo Street.
- o NRHP-listed: 86000624, José De Diego, Residencia Solariega, 52 Liceo Street.
- o JP/ICP Listed: Barket Residence, Bosque #70, corner with Ramírez Silva Street.
- o Eligible: Casa de Camineros, Inside University of Puerto Rico Mayaguez Campus.

The NHRP eligible properties are shown in the Aerial Maps, Figures 26 (Pages 47-52), Figure 27 (Pages 53-55), and Figure 28 (Pages 56-57), with descriptions and photographs that are located within the APE/Visual APE:

- Contributing and eligible property #01. Lcdo. A. Ramírez Silva Street, Photo #03.
- Contributing and eligible property #02. Lcdo. A. Ramírez Silva Street, Photo #10.
- Contributing and eligible property #03. Corner of Lcdo. A. Ramírez Silva and José de Diego Street, Photo #13.
- Contributing and eligible property #04. Corner of Lcdo. A. Ramírez Silva and Acacia Streets, Photo #17.
- Contributing and eligible property #05. Lcdo. A. Ramírez Silva Street, Photo #19.
- Contributing and eligible property #06. Lcdo. A. Ramírez Silva Street, Photo #21.
- Contributing and eligible property #07. Lcdo. A. Ramírez Silva Street, East view, Photos #23-28.
- Contributing and eligible property #08. Lcdo. A. Ramírez Silva Street, Photos #29-31.
- Contributing and eligible property #09 Lcdo. A. Ramírez Silva Street. Photo #35.
- Contributing and eligible property #10. Lcdo. A. Ramírez Silva Street, Photos #36-37.
- Contributing and eligible property #12. Bosque Street, Photo #44.
- Contributing and eligible property #13. Bosque Street, Photos #49-50.
- Contributing and eligible property #14, Bosque Street, Photo #52.
- Contributing and eligible property #15, Bosque Street, Photo #54.
- Contributing and eligible property #16. Corner of Bosque Street and Ramón Emeterio Betances Streets, Photos #62-64.

CITY REVITALIZATION PROGRAM (CRP)

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Project Name: Mejoras a calle Bosque y calle Lcdo. A. Ramírez Silva



• Direct Effect:

- o The proposed project will not have a direct effect on NHRP listed properties.
- o The project will not affect any NHRP eligible property within the APE.
- o The project will not affect the historic property JP/ICP listed: Barket Residence on Bosque #70, corner with Ramírez Silva Streets.
- The proposed project will have a positive direct effect on the NHRP eligible historic properties that compose the APE, and they are within the Mayagüez Traditional Urban Center District.
- o The analysis shows that the areas of Ramírez Silva and Bosque Streets are moderate in Archeological sensitivity. The project contemplates trench excavations that will not be more 6" for the surface finishes materials removal or more than 3 feet deep for the electrical infrastructure, including the new streetlights fixtures footings.
- o For the electrical infrastructure trenches, archeological monitoring is recommended.

• Indirect Effect:

o The proposed project will have a positive indirect effect in an area with high historic and architectural value that is within Ramirez Silva and Bosque Streets and that are part of the Mayaguez Traditional Urban Center.

Based on the results of our historic property identification efforts, the Program has determined that there are not NHRP listed historic properties that composed the APE and that the project actions will not directly/indirectly affect the historic-eligible properties that compose the APE/ Visual APE.

Archaeologist Juan Gonzalez points out a considerable positive archaeological area South of the Plaza Barcelona Building. González estimates that the site runs under the streets and in the spaces that have not yet been built in that area. González interprets it as an extensive site, probably corresponding to an indigenous village. With the Yagüez River channeling project in 1970, the topography of the sector was strongly modified with the relocation of the Yagüez River original course to allow its channeling. In the area south of the Plaza Barcelona building there is evidence of a pre-Columbian site that was impacted since 1950 by the construction of streets, infrastructure, residences, and commercial buildings in that area. Archaeologist Juan Gonzalez observed flint flakes in the area, it is considered that this area was part of the archaeological pre-Columbian site. Based on the analysis of archaeological data and the information offered by archaeologist Juan González, it is highly recommended that the project under evaluation be conducted under Archaeological Monitoring.

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR	
CITY REVITALIZATION PROGRAM (CRP)	
Section 106 NHPA Effect Determination	GOVERNMENT OF PUERTO RICO DEPARTMENT OF HOUSING
Subrecipient: Municipality of Mayaguez, Puerto Rico	
Program ID Number: PR-CRP-000857	
Project Name: Mejoras a calle Bosque y calle Lcdo. A. Ramírez Si	lva
Recommendation (Please keep on same page as SHPO Staff Secti	ion)
The Puerto Rico Department of Housing requests that the Puerto I The following determination is appropriate for the undertaking (Ch	Rico SHPO concur that
□ No Historic Properties Affected	
 No Adverse Effect Condition: The project contemplates trench excavations that wis surface finishes materials removal or more than 3 feet infrastructure, including the new streetlights fixture electrical infrastructure trenches, we are recommended in monitoring. An archaeological monitoring plan shall be prepared PRSHPO for review and comment. Adverse Effect Proposed Resolution (if appliable) 	deep for the electrical ures footings. For the nending archeological
This Section is to be Completed by SHPO Staff Complete	
Comments:	

Date:

Carlos Rubio-Cancela

State Historic Preservation Officer

CITY REVITALIZATION PROGRAM (CRP)

Section 106 NHPA Effect Determination

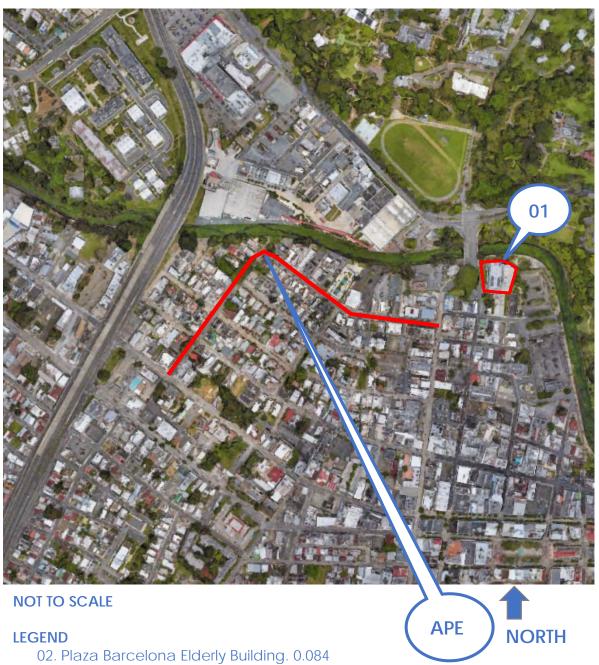
Subrecipient: Municipality of Mayaguez, Puerto Rico

Program ID Number: PR-CRP-000857

Project Name: Mejoras a calle Bosque y calle Lcdo. A. Ramírez Silva

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

GOVERNMENT OF PUERTO RICO



02. Plaza Barcelona Elderly Building. 0.084 miles (136 meters) from the APE, (Bosque Street).

SOURCE: GOOGLE EARTH; 2023

CITY REVITALIZATION PROGRAM (CRP)

Section 106 NHPA Effect Determination

Subrecipient: Municipality of Mayaguez, Puerto Rico

Program ID Number: PR-CRP-000857

Project Name: Mejoras a calle Bosque y calle Lcdo. A. Ramírez Silva

Project (Parcel) Location - (Visual Effect Aerial Map)

GOVERNMENT OF PUERTO RICO



SOURCE: GOOGLE EARTH; 2023

CITY REVITALIZATION PROGRAM (CRP)

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Subrecipient: Municipality of Mayaguez, Puerto Rico

Program ID Number: PR-CRP-000857

Project Name: Mejoras a calle Bosque y calle Lcdo. A. Ramírez Silva

Project (Parcel) Location - 1/4 Mile Radius Aerial Map



LEGEND OF NHRP-LISTED AND JP/ICP DESIGNATED PROPERTIES

- 1. Barket Residence, (APE, JP/ICP Listed)
- 2. Casa de Caminero, (NHRP-MY02000012)
- 3. José de Diego Building, (NHRP-MY0200021)
- 4. Leria Esmoris Residence, (NHRP-MY0200033)
- 5. Gómez Residence, (NHRP-MY0200034)

Note: Plaza Barcelona Elderly Building. 0.084 miles (136 meters) Northeast from the APE, (Bosque Street).

NOT TO SCALE

NORTH

APE

CITY REVITALIZATION PROGRAM (CRP)

Section 106 NHPA Effect Determination

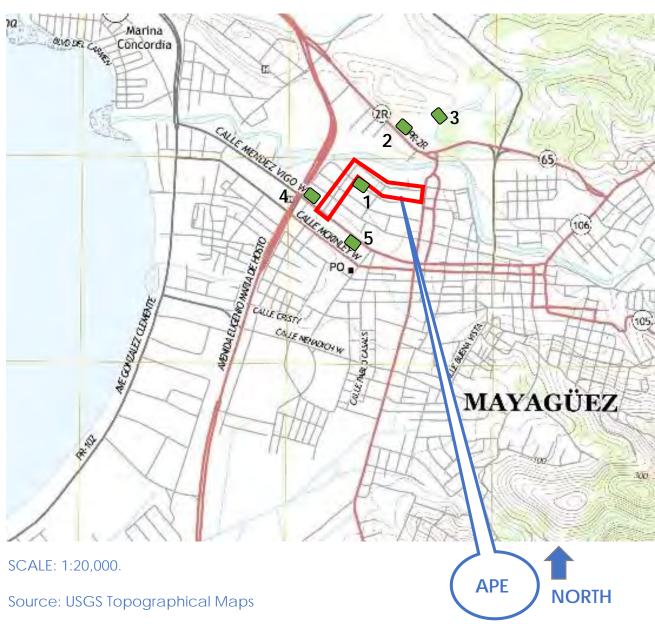
Subrecipient: Municipality of Mayaguez, Puerto Rico

Program ID Number: PR-CRP-000857

Project Name: Mejoras a calle Bosque y calle Lcdo. A. Ramírez Silva

Project (Parcel) Location of Historic Properties (Aerial Map) - USGS Topographic Map

GOVERNMENT OF PUERTO RICO



LEGEND, NHRP-LISTED, JP/ICP DESIGNATED PROPERTIES

- 1. Barket Residence, (APE, JP/ICP Listed)
- 2. Casa de Caminero, (NHRP-MY02000012)
- 3. José de Diego Building, (NHRP-MY0200021)
- 4. Leria Esmoris Residence, (NHRP-MY0200033)
- 5. Gómez Residence, (NHRP-MY0200034)

CITY REVITALIZATION PROGRAM (CRP)

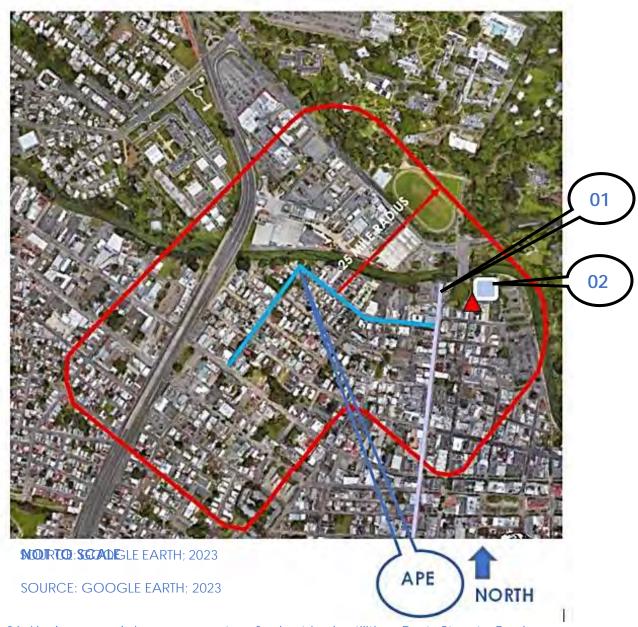
Section 106 NHPA Effect Determination

Subrecipient: Municipality of Mayaguez, Puerto Rico

Program ID Number: PR-CRP-000857

Project Name: Mejoras a calle Bosque y calle Lcdo. A. Ramírez Silva

Project (Parcel) Location with Previous Investigations – Aereal Photo



- 01. Underground improvements of electrical utilities Post Street, Barrio Pueblo, Mayagüez, 2004.
- 02. Plaza Barcelona, Barrio Pueblo, Mayagüez, 2010. MY-93 in CAT/PAE, Residuario Plaza Barcelona, a pre-Columbian residuary, located 0.084 miles (136 meters) to the Northeast of the APE.

CITY REVITALIZATION PROGRAM (CRP)

Section 106 NHPA Effect Determination

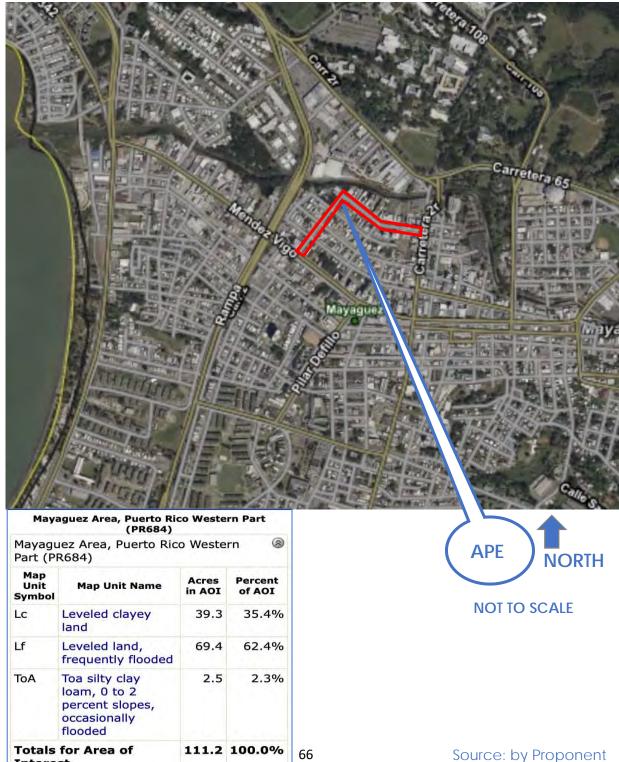
Subrecipient: Municipality of Mayaguez, Puerto Rico

Program ID Number: PR-CRP-000857

Interest

Project Name: Mejoras a calle Bosque y calle Lcdo. A. Ramírez Silva

Project (Parcel) Location. Soils Map



CITY REVITALIZATION PROGRAM (CRP)

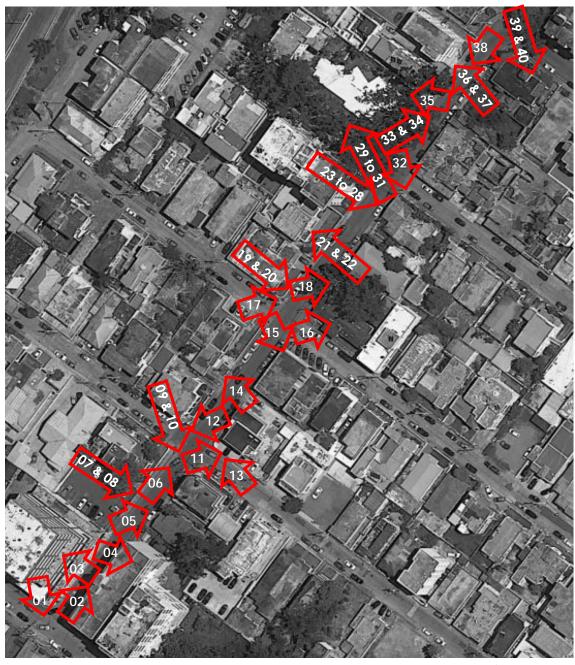
Section 106 NHPA Effect Determination

Subrecipient: Municipality of Mayaguez, Puerto Rico

Program ID Number: PR-CRP-000857

Project Name: Mejoras a calle Bosque y calle Lcdo. A. Ramírez Silva

Photograph Key-Lcdo. A. Ramírez Silva Street



NOT TO SCALE

SOURCE: GOOGLE EARTH; 2023



CITY REVITALIZATION PROGRAM (CRP)

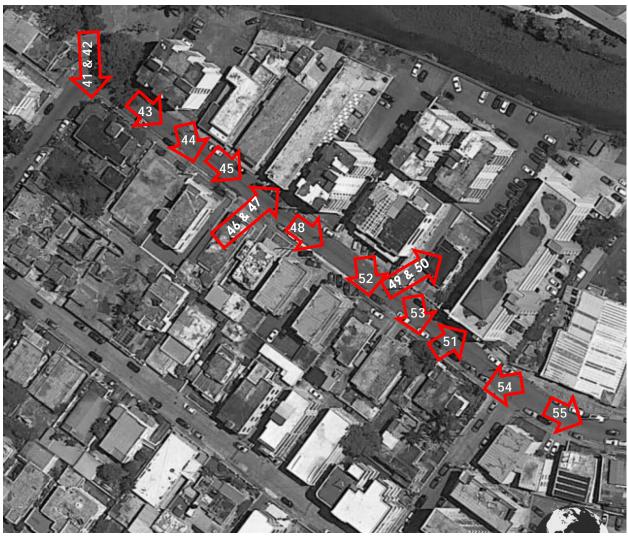
Section 106 NHPA Effect Determination

Subrecipient: Municipality of Mayaguez, Puerto Rico

Program ID Number: PR-CRP-000857

Project Name: Mejoras a calle Bosque y calle Lcdo. A. Ramírez Silva

Photograph Key- El Bosque Street, Second Segment



NOT TO SCALE

SOURCE: GOOGLE EARTH; 2023



CITY REVITALIZATION PROGRAM (CRP)

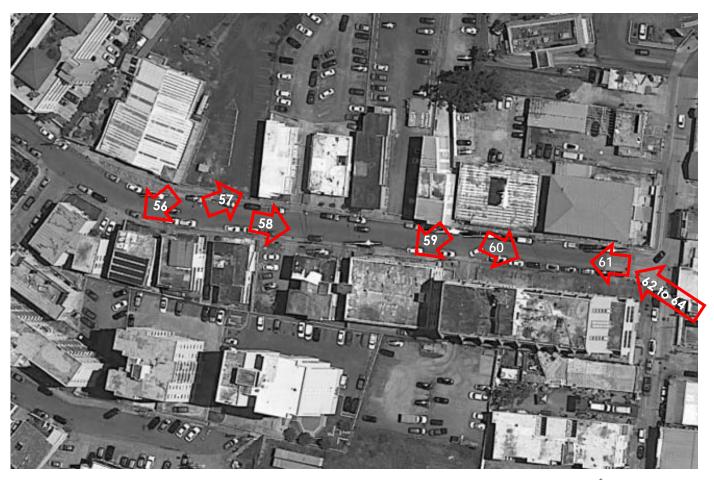
Section 106 NHPA Effect Determination

Subrecipient: Municipality of Mayaguez, Puerto Rico

Program ID Number: PR-CRP-000857

Project Name: Mejoras a calle Bosque y calle Lcdo. A. Ramírez Silva

Photograph Key- El Bosque Street, Third Segment



NOT TO SCALE

SOURCE: GOOGLE EARTH; 2023



CITY REVITALIZATION PROGRAM (CRP)

Section 106 NHPA Effect Determination

Subrecipient: Municipality of Mayaguez, Puerto Rico

Program ID Number: PR-CRP-000857

Project Name: Mejoras a calle Bosque y calle Lcdo. A. Ramírez Silva





Photo #: 01

Description: Street signage at Lcdo. A. Ramírez Silva Street.

Date: 29/08/23



Photo #: 02

Description: Start of Lcdo. A. Ramírez Silva Street, North view.

Date: 29/08/23

CITY REVITALIZATION PROGRAM (CRP)

Section 106 NHPA Effect Determination

Subrecipient: Municipality of Mayaguez, Puerto Rico

Program ID Number: PR-CRP-000857

Project Name: Mejoras a calle Bosque y calle Lcdo. A. Ramírez Silva





Photo #: 03

Description: Lcdo. A. Ramírez Silva and corner of Mendez Vigo Streets, East view. Out of urban scale, contemporary.

Date: 29/08/23



Photo #: 04

Date: 29/08/23

Description: Lcdo. A. Ramírez Silva and corner of Mendez Vigo Streets, East view, out of urban scale, contemporary and showing tangled telephone lines mess on street post.

CITY REVITALIZATION PROGRAM (CRP)

Section 106 NHPA Effect Determination

Subrecipient: Municipality of Mayaguez, Puerto Rico

Program ID Number: PR-CRP-000857

Project Name: Mejoras a calle Bosque y calle Lcdo. A. Ramírez Silva



Photo #: 05

Date: 29/08/23

Description: Lcdo. A. Ramírez Silva Street, North-East view, showing eligible properties. Puerto Rico Vernacular Modern Creole style. © 1925-40.

OVERNMENT OF PUERTO RICO



Photo #: 06

Description: Lcdo. A. Ramírez Silva Street, North view.

Date: 29/08/23

CITY REVITALIZATION PROGRAM (CRP)

Section 106 NHPA Effect Determination

Subrecipient: Municipality of Mayaguez, Puerto Rico

Program ID Number: PR-CRP-000857

Project Name: Mejoras a calle Bosque y calle Lcdo. A. Ramírez Silva



Photo #: 07

Date: 29/08/23

Description: Lcdo. A. Ramírez Silva Street, East- South view. Contributing eligible property #01. Puerto Rico Moderne Creole Style with North American California Bungalow Influences. © 1925-40.

OVERNMENT OF PUERTO RICO



Photo #: 08

Date: 29/08/23

Description: Lcdo. A. Ramírez Silva Street, East (front) view. Contributing eligible property #01. Puerto Rico Vernacular Moderne Creole Style with North American California Bungalow Influences. © 1925-40.

CITY REVITALIZATION PROGRAM (CRP)

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Subrecipient: Municipality of Mayaguez, Puerto Rico

Program ID Number: PR-CRP-000857

Project Name: Mejoras a calle Bosque y calle Lcdo. A. Ramírez Silva



Photo #: 09

Date: 29/08/23

Description: Lcdo. A. Ramírez Silva Street, East view. Contributing eligible property #02. Puerto Rico Vernacular Moderne Creole Style. © 1925-40.

OVERNMENT OF PUERTO RICO



Photo #: 10

Date: 29/08/23

Description: Corner of Lcdo. A. Ramírez Silva and José de Diego Street, East, Main Façade view. Contributing eligible property #02. Puerto Rico Vernacular Moderne Creole Style. © 1925-40.

CITY REVITALIZATION PROGRAM (CRP)

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Subrecipient: Municipality of Mayaguez, Puerto Rico

Program ID Number: PR-CRP-000857

Project Name: Mejoras a calle Bosque y calle Lcdo. A. Ramírez Silva



Photo #: 11

Date: 29/08/23

Description: Corner of Lcdo. A. Ramírez Silva and José de Diego Street, North-East view. Contributing, non-eligible. Puerto Rico Vernacular Moderne Creole Style, typological intervened property. Urban example of environmentally accepted property for a Historic District.

OVERNMENT OF PUERTO RICO



Photo #: 12

Date: 29/08/23

Description: Corner of Lcdo. A. Ramírez Silva and José de Diego Street, South-West view. Contributing, non-eligible. Puerto Rico Vernacular Moderne Creole Style, typological intervened property. Urban example of environmentally accepted property for a Historic District.

CITY REVITALIZATION PROGRAM (CRP)

Section 106 NHPA Effect Determination

Subrecipient: Municipality of Mayaguez, Puerto Rico

Program ID Number: PR-CRP-000857

Project Name: Mejoras a calle Bosque y calle Lcdo. A. Ramírez Silva



Photo #: 13

Date: 29/08/23

Description: Corner of Lcdo. A. Ramírez Silva and José de Diego Street, West view. Contributing eligible property #03. Puerto Rico Vernacular Moderne Creole Style. © 1925-40.

OVERNMENT OF PUERTO RICO



Photo #: 14

Description: Lcdo. A. Ramírez Silva Street, West view. Recent Construction.

Date: 29/08/23

CITY REVITALIZATION PROGRAM (CRP)

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Subrecipient: Municipality of Mayaguez, Puerto Rico

Program ID Number: PR-CRP-000857

Project Name: Mejoras a calle Bosque y calle Lcdo. A. Ramírez Silva



Photo #: 15

Description: Lcdo. A. Ramírez Silva Street, East view. Recent Construction.

OVERNMENT OF PUERTO RICO

Date: 29/08/23



Photo #: 16

Date: 29/08/23

Description: Corner of Lcdo. A. Ramírez Silva and Acacia Streets, North-East view. Contributing eligible property #04. Puerto Rico Vernacular Moderne Creole Style. © 1925-40.

CITY REVITALIZATION PROGRAM (CRP)

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Subrecipient: Municipality of Mayaguez, Puerto Rico

Program ID Number: PR-CRP-000857

Project Name: Mejoras a calle Bosque y calle Lcdo. A. Ramírez Silva



Photo #: 17

Date: 29/08/23

Description: Corner of Lcdo. A. Ramírez Silva and Acacia Streets, East (Front) view. Contributing eligible property #04. Puerto Rico Vernacular Moderne Creole Style. © 1925-40.

OVERNMENT OF PUERTO RICO



Photo #: 18

Date: 29/08/23

Description: Lcdo. A. Ramírez Silva Street. North view with eligible properties #04 and 05.

CITY REVITALIZATION PROGRAM (CRP)

Section 106 NHPA Effect Determination

Subrecipient: Municipality of Mayaguez, Puerto Rico

Program ID Number: PR-CRP-000857

Project Name: Mejoras a calle Bosque y calle Lcdo. A. Ramírez Silva



Photo #: 19

Date: 29/08/23

Description: Lcdo. A. Ramírez Silva, North-East (Front) view. Contributing eligible property #05. Puerto Rico Vernacular Moderne Creole Style. © 1925-40.

OVERNMENT OF PUERTO RICO



Photo #: 20

Date: 29/08/23

Description: Lcdo. A. Ramírez Silva, East (Front) view. Contributing eligible property #05. Puerto Rico Vernacular Moderne Creole Style. © 1925-40.

CITY REVITALIZATION PROGRAM (CRP)

Section 106 NHPA Effect Determination

Subrecipient: Municipality of Mayaguez, Puerto Rico

Program ID Number: PR-CRP-000857

Project Name: Mejoras a calle Bosque y calle Lcdo. A. Ramírez Silva

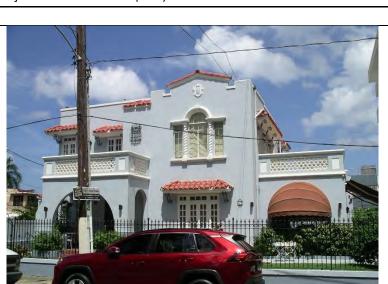


Photo #: 21

Description: Lcdo. A. Ramírez Silva, West (Front) view. Contributing eligible property #06. Puerto Rico Spanish Revival Style. © 1925-40.

OVERNMENT OF PUERTO RICO

Date: 29/08/23



Photo #: 22

Date: 29/08/23

Description: Lcdo. A. Ramírez Silva, West (Front) view. (Palladian Window Type Detail) Contributing eligible property #06. Puerto Rico Spanish Revival Style. © 1925-40.

CITY REVITALIZATION PROGRAM (CRP)

Section 106 NHPA Effect Determination

Subrecipient: Municipality of Mayaguez, Puerto Rico

Program ID Number: PR-CRP-000857

Project Name: Mejoras a calle Bosque y calle Lcdo. A. Ramírez Silva



Photo #: 23

Date: 29/08/23

Lcdo. A. Ramírez Silva Street, East (front) view. Description: Contributing eligible property #07, North American California Bungalow Style. © 1925-40.

OVERNMENT OF PUERTO RICO



Photo #: 24

Date: 29/08/23

Description: Lcdo. A. Ramírez Silva Street, East view. Contributing eligible property #07, North American California Bungalow Style. Front Porch Column Detail. © 1925-40.

CITY REVITALIZATION PROGRAM (CRP)

Section 106 NHPA Effect Determination

Subrecipient: Municipality of Mayaguez, Puerto Rico

Program ID Number: PR-CRP-000857

Project Name: Mejoras a calle Bosque y calle Lcdo. A. Ramírez Silva



Photo #: 25

Date: 29/08/23

Description: Lcdo. A. Ramírez Silva Street, East (Front) view. Contributing eligible property #07, North American California Bungalow Style. Front Main Entrance Porch and Door Detail. © 1925-40.

OVERNMENT OF PUERTO RICO



Photo #: 26

Date: 29/08/23

Description: Lcdo. A. Ramírez Silva Street, East view. Contributing eligible property #07, North American California Bungalow Style. Front Main Entrance Porch Wood Ceiling Detail. © 1925-40.

CITY REVITALIZATION PROGRAM (CRP)

Section 106 NHPA Effect Determination

Subrecipient: Municipality of Mayaguez, Puerto Rico

Program ID Number: PR-CRP-000857

Project Name: Mejoras a calle Bosque y calle Lcdo. A. Ramírez Silva



Photo #: 27

Date: 29/08/23

Description: Lcdo. A. Ramírez Silva Street, East view. Contributing eligible property #07, North American California Bungalow Style. Left Side Main Entrance Loggia Detail. © 1925-40.

OVERNMENT OF PUERTO RICO



Photo #: 28

Date: 29/08/23

Description: Lcdo. A. Ramírez Silva Street, East view. Contributing eligible property #07, North American California Bungalow Style. Main Entrance Stairs Detail with Marble Steps and Creole Style Tyles. © 1925-40.

CITY REVITALIZATION PROGRAM (CRP)

Section 106 NHPA Effect Determination

Subrecipient: Municipality of Mayaguez, Puerto Rico

Program ID Number: PR-CRP-000857

Project Name: Mejoras a calle Bosque y calle Lcdo. A. Ramírez Silva



Photo #: 29

Date: 29/08/23

Description: Lcdo. A. Ramírez Silva Street, West view. Contributing eligible property #08, North American International Moderne Style. © 1960.

OVERNMENT OF PUERTO RICO



Photo #: 30

Date: 29/08/23

Description: Lcdo. A. Ramírez Silva Street, West view with side courtyard and facade. Contributing eligible property #08, North American International Moderne Style. © 1960.

CITY REVITALIZATION PROGRAM (CRP)

Section 106 NHPA Effect Determination

Subrecipient: Municipality of Mayaguez, Puerto Rico

Program ID Number: PR-CRP-000857

Project Name: Mejoras a calle Bosque y calle Lcdo. A. Ramírez Silva



Photo #: 31

Date: 29/08/23

Description: Lcdo. A. Ramírez Silva Street, North-West view (Front Façade). Contributing eligible property #08, North American International Moderne Style. © 1960.

OVERNMENT OF PUERTO RICO



Photo #: 32

Date: 29/08/23

Description: Lcdo. A. Ramírez Silva and corner of Las Flores Streets (East Side) Storm Drain Detail. © 1960.

CITY REVITALIZATION PROGRAM (CRP)

Section 106 NHPA Effect Determination

Subrecipient: Municipality of Mayaguez, Puerto Rico

Program ID Number: PR-CRP-000857

Project Name: Mejoras a calle Bosque y calle Lcdo. A. Ramírez Silva



OVERNMENT OF PUERTO RICO

Photo #: 33

Description: Lcdo. A. Ramírez Silva Street, North view.

Date: 29/08/23



Photo #: 34

Description: Lcdo. A. Ramírez Silva Street, North-East view.

CITY REVITALIZATION PROGRAM (CRP)

Section 106 NHPA Effect Determination

Subrecipient: Municipality of Mayaguez, Puerto Rico

Program ID Number: PR-CRP-000857

Project Name: Mejoras a calle Bosque y calle Lcdo. A. Ramírez Silva



Photo #: 35

Description: Lcdo. A. Ramírez Silva, West (Front) view. Contributing eligible property #09. Puerto Rico Spanish Revival Style. © 1925-40.

OVERNMENT OF PUERTO RICO

Date: 29/08/23



Photo #: 36

Date: 29/08/23

Description: Lcdo. A. Ramírez Silva, North-West (Front) view. Contributing eligible property #10. Puerto Rico Late Art Deco with Moderne International Style Influences. © 1940-45.

CITY REVITALIZATION PROGRAM (CRP)

Section 106 NHPA Effect Determination

Subrecipient: Municipality of Mayaguez, Puerto Rico

Program ID Number: PR-CRP-000857

Project Name: Mejoras a calle Bosque y calle Lcdo. A. Ramírez Silva



Photo #: 37

Date: 29/08/23

Description: Lcdo. A. Ramírez Silva, South-West view. Contributing eligible property #10. Puerto Rico Late Art Deco with Moderne International Style Influences. © 1940-45.

OVERNMENT OF PUERTO RICO



Photo #: 38

Description: Lcdo. A. Ramírez Silva, South view.

CITY REVITALIZATION PROGRAM (CRP)

Section 106 NHPA Effect Determination

Subrecipient: Municipality of Mayaguez, Puerto Rico

Program ID Number: PR-CRP-000857

Project Name: Mejoras a calle Bosque y calle Lcdo. A. Ramírez Silva



OVERNMENT OF PUERTO RICO

Photo #: 39

Description: Lcdo. A. Ramírez Silva, East view. JP/ICP listed (Barket Residence #11). Puerto Rico Spanish Revival Style, 1939.

Date: 29/08/23



Photo #: 40

Date: 29/08/23

Description: Corner of Lcdo. A. Ramírez Silva and Bosque Streets, South view. JP/ICP listed, (Barket Residence #11). Puerto Rico Spanish Revival Style,1939.

CITY REVITALIZATION PROGRAM (CRP)

Section 106 NHPA Effect Determination

Subrecipient: Municipality of Mayaguez, Puerto Rico

Program ID Number: PR-CRP-000857

Project Name: Mejoras a calle Bosque y calle Lcdo. A. Ramírez Silva



Photo #: 41

Description: Bosque Street, East-South view. JP/ICP listed, (Barket Residence-#11). Puerto Rico Spanish Revival Style, 1939.

OVERNMENT OF PUERTO RICO

Date: 29/08/23



Photo #: 42

Description: Bosque Street, South view. JP/ICP listed, (Barket Residence-#11). Puerto Rico Spanish Revival Style, 1939.

CITY REVITALIZATION PROGRAM (CRP)

Section 106 NHPA Effect Determination

Subrecipient: Municipality of Mayaguez, Puerto Rico

Program ID Number: PR-CRP-000857

Project Name: Mejoras a calle Bosque y calle Lcdo. A. Ramírez Silva



OVERNMENT OF PUERTO RICO

Photo #: 43

Description: Bosque Street, East view.

Date: 29/08/23



Photo #: 44

Description: Bosque Street, South view. Contributing eligible property #12. Puerto Rico Moderne International Style. © 1960.

CITY REVITALIZATION PROGRAM (CRP)

Section 106 NHPA Effect Determination

Subrecipient: Municipality of Mayaguez, Puerto Rico

Program ID Number: PR-CRP-000857

Project Name: Mejoras a calle Bosque y calle Lcdo. A. Ramírez Silva



GOVERNMENT OF PUERTO RICO

Photo #: 45

Description: Bosque Street, East view.

Date: 29/08/23



Photo #: 46

Description: Bosque Street, North view. Recent construction, contemporary.

CITY REVITALIZATION PROGRAM (CRP)

Section 106 NHPA Effect Determination

Subrecipient: Municipality of Mayaguez, Puerto Rico

Program ID Number: PR-CRP-000857

Project Name: Mejoras a calle Bosque y calle Lcdo. A. Ramírez Silva



Photo #: 47

Date: 29/08/23

Description: Bosque Street, North view. Recent construction, contemporary with chaotic, tangled telephone lines mess on street post.

GOVERNMENT OF PUERTO RICO



Photo #: 48

Description: Bosque Street, East view.

CITY REVITALIZATION PROGRAM (CRP)

Section 106 NHPA Effect Determination

Subrecipient: Municipality of Mayaguez, Puerto Rico

Program ID Number: PR-CRP-000857

Project Name: Mejoras a calle Bosque y calle Lcdo. A. Ramírez Silva



Photo #: 49

Date: 29/08/23

Description: Bosque Street, East view. Contributing eligible property #13. Puerto Rico Vernacular Moderne Creole Style with some Spanish Revival Influences. © 1925-40.

OVERNMENT OF PUERTO RICO



Photo #: 50

Date: 29/08/23

Description: Bosque Street, East Front view. Contributing eligible property #13. Puerto Rico Vernacular Moderne Creole Style with some Spanish Revival Influences. © 1925-40.

CITY REVITALIZATION PROGRAM (CRP)

Section 106 NHPA Effect Determination

Subrecipient: Municipality of Mayaguez, Puerto Rico

Program ID Number: PR-CRP-000857

Project Name: Mejoras a calle Bosque y calle Lcdo. A. Ramírez Silva



Photo #: 51

Description: Bosque Street, East-South view. Recent construction, contemporary.

OVERNMENT OF PUERTO RICO

Date: 29/08/23



Photo #: 52

Description: Bosque Street, South view. Contributing eligible property #14. Puerto Rico Moderne International Style. © 1960.

CITY REVITALIZATION PROGRAM (CRP)

Section 106 NHPA Effect Determination

Subrecipient: Municipality of Mayaguez, Puerto Rico

Program ID Number: PR-CRP-000857

Project Name: Mejoras a calle Bosque y calle Lcdo. A. Ramírez Silva



Photo #: 53

Description: Bosque Street, South view. Recent construction, contemporary.

OVERNMENT OF PUERTO RICO

Date: 29/08/23



Photo #: 54

Date: 29/08/23

Description: Bosque Street, South-West view. Contributing eligible property #14. Puerto Rico Late Art Deco with Moderne International Style Influences. © 1950.

CITY REVITALIZATION PROGRAM (CRP)

Section 106 NHPA Effect Determination

Subrecipient: Municipality of Mayaguez, Puerto Rico

Program ID Number: PR-CRP-000857

Project Name: Mejoras a calle Bosque y calle Lcdo. A. Ramírez Silva



OVERNMENT OF PUERTO RICO

Photo #: 55

Description: Bosque Street, East view.

Date: 29/08/23



Photo #: 56

Description: Bosque Street, East-South view. Recent construction, contemporary.

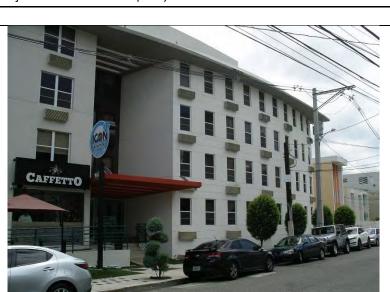
CITY REVITALIZATION PROGRAM (CRP)

Section 106 NHPA Effect Determination

Subrecipient: Municipality of Mayaguez, Puerto Rico

Program ID Number: PR-CRP-000857

Project Name: Mejoras a calle Bosque y calle Lcdo. A. Ramírez Silva



OVERNMENT OF PUERTO RICO

Photo #: 57 Description: Bosque Street, East view. Recent construction, contemporary.

Date: 29/08/23



Photo #: 58 Description: Bosque Street, West-South view.

CITY REVITALIZATION PROGRAM (CRP)

Section 106 NHPA Effect Determination

Subrecipient: Municipality of Mayaguez, Puerto Rico

Program ID Number: PR-CRP-000857

Project Name: Mejoras a calle Bosque y calle Lcdo. A. Ramírez Silva



Photo #: 59

Description: Bosque Street, North-West view. Recent construction, contemporary.

OVERNMENT OF PUERTO RICO

Date: 29/08/23



Photo #: 60

Description: Bosque Street, East-South view. Out of scale, recent

Date: 29/08/23

construction, contemporary.

CITY REVITALIZATION PROGRAM (CRP)

Section 106 NHPA Effect Determination

Subrecipient: Municipality of Mayaguez, Puerto Rico

Program ID Number: PR-CRP-000857

Project Name: Mejoras a calle Bosque y calle Lcdo. A. Ramírez Silva



OVERNMENT OF PUERTO RICO



Photo #: 61

Description: Bosque Street, West view.

Date: 29/08/23



Photo #: 62

Description: Corner of Bosque Street and Ramón Emeterio Betances Streets, East-North view. Contributing eligible property #15. Late

Date: 29/08/23

Spanish Revival. ©1950.

CITY REVITALIZATION PROGRAM (CRP)

Section 106 NHPA Effect Determination

Subrecipient: Municipality of Mayaguez, Puerto Rico

Program ID Number: PR-CRP-000857

Project Name: Mejoras a calle Bosque y calle Lcdo. A. Ramírez Silva



Photo #: 63

Date: 29/08/23

Description: Corner of Bosque Street and Ramón Emeterio Betances Streets, South-West view. Contributing eligible property #15. Late Spanish Revival. ©1950.

OVERNMENT OF PUERTO RICO



Photo #: 64

Date: 29/08/23

Description: Corner of Bosque Street and Ramón Emeterio Betances Streets. Entrance detail view. Contributing eligible property #15. Late Spanish Revival. ©1950.

PR-CRP-000857 Mejoras a la Calle Bosque y Calle Lic. A. Ramírez Silva Project Mayagüez, Puerto Rico

60% Design Drawings

IMPROVEMENT PROJECT PR-CRP-000857

CALLE BOSQUE AND CALLE LIC. A. RAMIREZ SILVA MUNICIPALITY OF MAYAGÜEZ, PUERTO RICO, 00685



SHEET T-1 Title EXISTING CONDITIONS ST-1 Survey and Topographic Work

DEMOLITION

DP-1 Demolition Site Plan View - Calle Lic. Ramirez Silva
DP-2 Demolition Site Plan View - Call Bosque

DP-3 Demolition Plan General Notes

ST-2 Survey and Topographic Work

$\frac{ARC\Pi I}{A-1}$	TECTURAL Proposed Plan — Site Plan View
A-2	Proposed Plan - Blow Up 1
A-3	Proposed Plan - Blow Up 2
A-4	Proposed Plan - Blow Up 3
A - 5	Proposed Plan - Blow Up 4
A-6	Proposed Plan - Blow up 5
A-7	Proposed Plan - Blow up 6
A-8	Proposed Plan - Blow up 7
A-9	Proposed Plan - Blow up 8
A - 10	Proposed Plan - Blow up 9
A - 11	Proposed Plan - Blow up 10
A - 12	Proposed Plan - Street Section 1
A-13	Proposed Plan — Street Section 2

ARCHITECTURAL ROAD

AR-2	Geometry and Catches Basin — Partial Plan 2					
AR-3	Geometry and Catches Basin — Partial Plan 3					
AR-4	Geometry and Catches Basin — Partial Plan 4					
AR-5	Geometry and Catches Basin — Partial Plan 5					
AR-6	Geometry and Catches Basin — Partial Plan 6					
AR-7	Partial Plan 1 — Finishes					
AR-8	Partial Plan 2 — Finishes					
AR-9	Partial Plan 3 — Finishes					
AR-10 Partial Plan 4 - Finishes						
AR-11	Partial Plan 5 — Finishes					
AR-12	Partial Plan 6 — Finishes					
STRUCTURAL						
S-1	Structure - Partial Plan 1					

AR-1 Geometry and Catches Basin — Partial Plan 1

S-3 Structure - Partial Plan 3 S-4 Structure - Partial Plan 4 S-5 Structure - Partial Plan 5

S-2

S-6 Structure - Partial Plan 6

ROAD SIGN

RS-1 Road Sign and Demarcation 1

RS-2 Road Sign and Demarcation 2

RS-3 Road Sign and Demarcation 3

Structure — Partial Plan 2

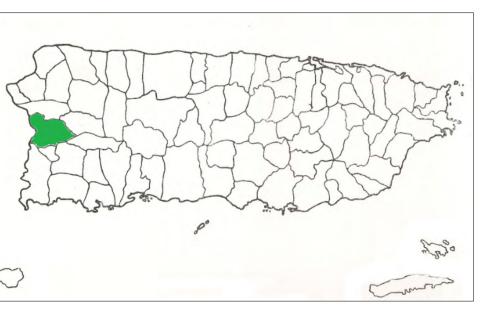
Road Sign and Demarcation 4

Road Sign and Demarcation 5

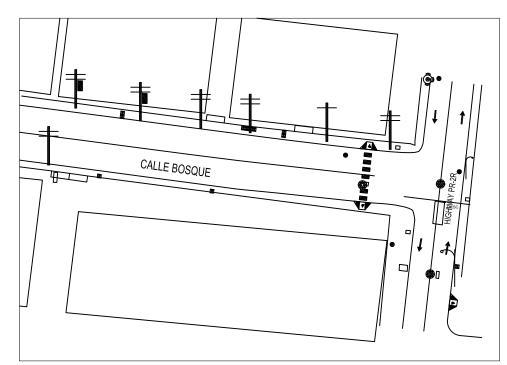
ELECTRICAL

E-1	As—Built Electrical System for Lic. Ramirez Siva Street			
E-2	As—Built Electrical System for Bosque Street			
E - 3	Underground Primary Electrical System — Section 1			
E-4	Underground Primary Electrical System — Section 2			
E-5	Underground Primary Electrical System — Section 3			
E-6	Underground Primary Electrical System — Section 4			
E-7	Underground Primary Electrical System — Section 5			
E-8	Underground Secondary Electrical System — Section 1			
E-9	Underground Secondary Electrical System — Section 2			
E-10	Underground Secondary Electrical System — Section 3			
E-11	Underground Secondary Electrical System — Section 4			
E - 12	Underground Secondary Electrical System — Section 5			
E - 13	Underground Lighting Electrical System — Section 1			
E-14	Underground Lighting Electrical System — Section 2			
E-15	Underground Lighting Electrical System — Section 3			
E-16	Underground Lighting Electrical System — Section 4			
E-17	Underground Lighting Electrical System — Section 5			
E-18	Underground Electrical System(One—line Diagram)			
E-19	Underground Electrical System(Construction Detail)			
E - 20	Underground Electrical System(Construction Detail)			
TELECOMMUNICATIONS				
	Underground Tologommunication System Section 1			

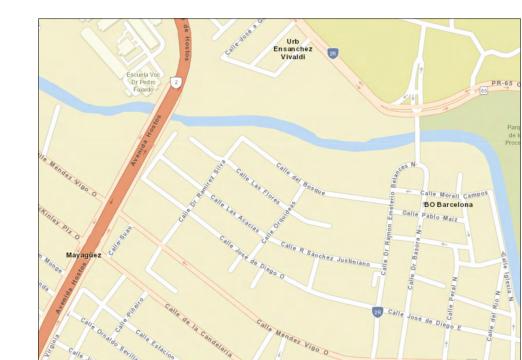
ET-1 Underground Telecommunication System - Section 1
ET-2 Underground Telecommunication System - Section 2
ET-3 Underground Telecommunication System - Section 3
ET-4 Underground Telecommunication System - Section 4
ET-5 Underground Telecommunication System - Section 5
ET-6 Underground Telecommunication System(Construction Detail)
ET-7 Underground Telecommunication System(Construction Detail)
ET-8 Underground Telecommunication System(Construction Detail)
Underground Telecommunication System(Construction Detail)



Puerto Rico Maj



Zoning Pl



Location Plan



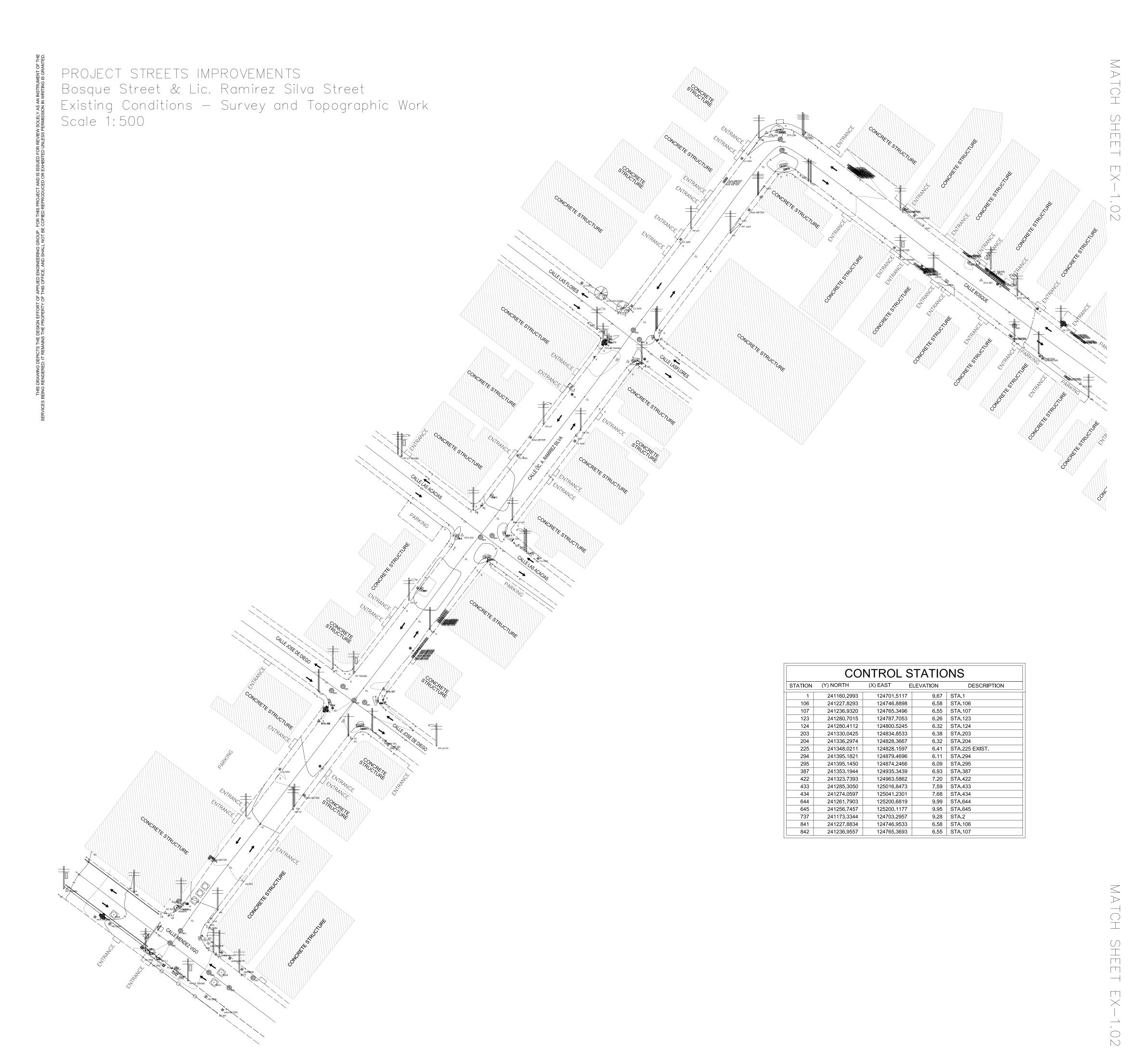
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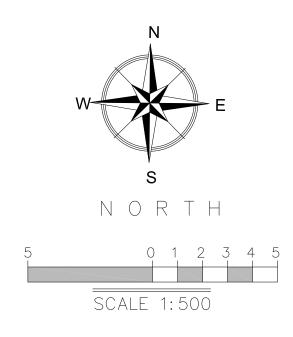


Aerial Map



10 St. Montecarlo Avenue #866 Río Piedras, PR 00924 P.O. Box 361298 San Juan, Puerto Rico 00936-1298 Office: 787 - 771-5071 / 787 - 771-5069 / Fax: 787 - 771 - 5070 <u>AEG@aegroup-pr.com</u>





<u>LEYENDA:</u>



NOTES:

- 1. All distance shown in this plan are in the metric system unless otherwise indicated.
- 2. Horizontal and vertical control stations were established in state plane NAD 89 coordinates system using a GPS (Global Positening System) Model Trimble R8GNSS/R6/58000
- 3. Vertical datum is consider mean sea level.
- 4. The field work for collecting information topographic data was performed in the month of February 2023.
- 5. The equipment used to obtain field data was;
 A Total station model Nikon DTM 520
 B Data Collector NOMAD
- C Steel Tape

TRAFFIC SIGNAL MAST ARM

D — Prism, rod and compass

ENGINEERING GROUP

g Conditions and Topogra LIC. RAMIR

D PR-CRP-000857
LA CALLE BOSQUE
A. RAMIREZ SILVA
S. 00680 PROYECTO
MEJORAS A L
CALLE LIC. A
Mayagüez, P.R. 0

Survey & Topo. Existing Condition

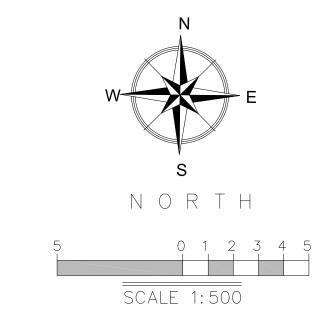
> Mayo 2023 DRWG. SHEET ST-1

PROJECT STREETS IMPROVEMENTS Bosque Street & Lic. A. Ramirez Silva Street Existing Conditions — Survey and Topographic Work

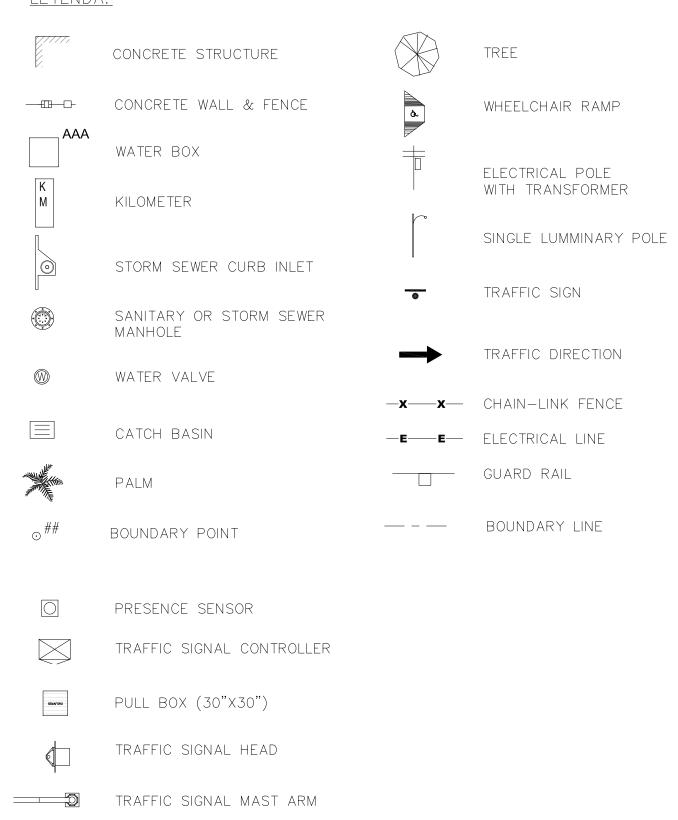
Scale 1:500

CONTROL STATIONS								
STATION	(Y) NORTH	(X) EAST E	LEVATION	DESCRIPTION				
1	241160.2993	124701.5117	9.67	STA.1				
106	241227.8293	124746.8898	6.58	STA.106				
107	241236.9320	124765.3496	6.55	STA.107				
123	241280.7015	124787.7053	6.26	STA.123				
124	241280.4112	124800.5245	6.32	STA.124				
203	241330.0425	124834.8533	6.38	STA.203				
204	241336.2974	124828.3667	6.32	STA.204				
225	241348.0211	124828.1597	6.41	STA.225 EXIST.				
294	241395.1821	124879.4696	6.11	STA.294				
295	241395.1450	124874.2466	6.09	STA.295				
387	241353.1944	124935.3439	6.93	STA.387				
422	241323.7393	124963.5862	7.20	STA.422				
433	241285.3050	125016.8473	7.59	STA.433				
434	241274.0597	125041.2301	7.68	STA.434				
644	241261.7903	125200.6819	9.99	STA.644				
645	241256.7457	125200.1177	9.95	STA.645				
737	241173.3344	124703.2957	9.28	STA.2				
841	241227.8834	124746.9533	6.58	STA.106				
842	241236.9557	124765.3693	6.55	STA.107				





LEYENDA:



NOTES:

- 1. All distance shown in this plan are in the metric system unless otherwise indicated.
- 2. Horizontal and vertical control stations were established in state plane NAD 89 coordinates system using a GPS (Global Positening System) Model Trimble R8GNSS/R6/58000
- 3. Vertical datum is consider mean sea level.
- 4. The field work for collecting information topographic data was performed in the month of February 2023.
- 5. The equipment used to obtain field data was; A Total station model Nikon DTM 520 B Data Collector NOMAD

 - C Steel Tape D Prism, rod and compass

Survey & Topo. Existing Condition

Mayo 2023

ST-2



APPLIED ENGINEERING GR MANAGERS, ARCHITECTS, ENGINEERS AND PLAN 10 St. Montecarlo Avenue #866 Río Piedras, PR (P.O. Box 361298 San Juan, Puerto Rico 00936-12 office: 787 - 771 - 5071 / 787 - 771 - 5070 AEG@aegrau

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SILVA
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REVISION

Existing Conditions
DEMOLITION SITE PLAN
CALLE LIC. RAMIREZ SI

OYECTO PR-CRP-000857
JORAS A LA CALLE BOSQUE Y
LLE LIC. A. RAMIREZ SILVA

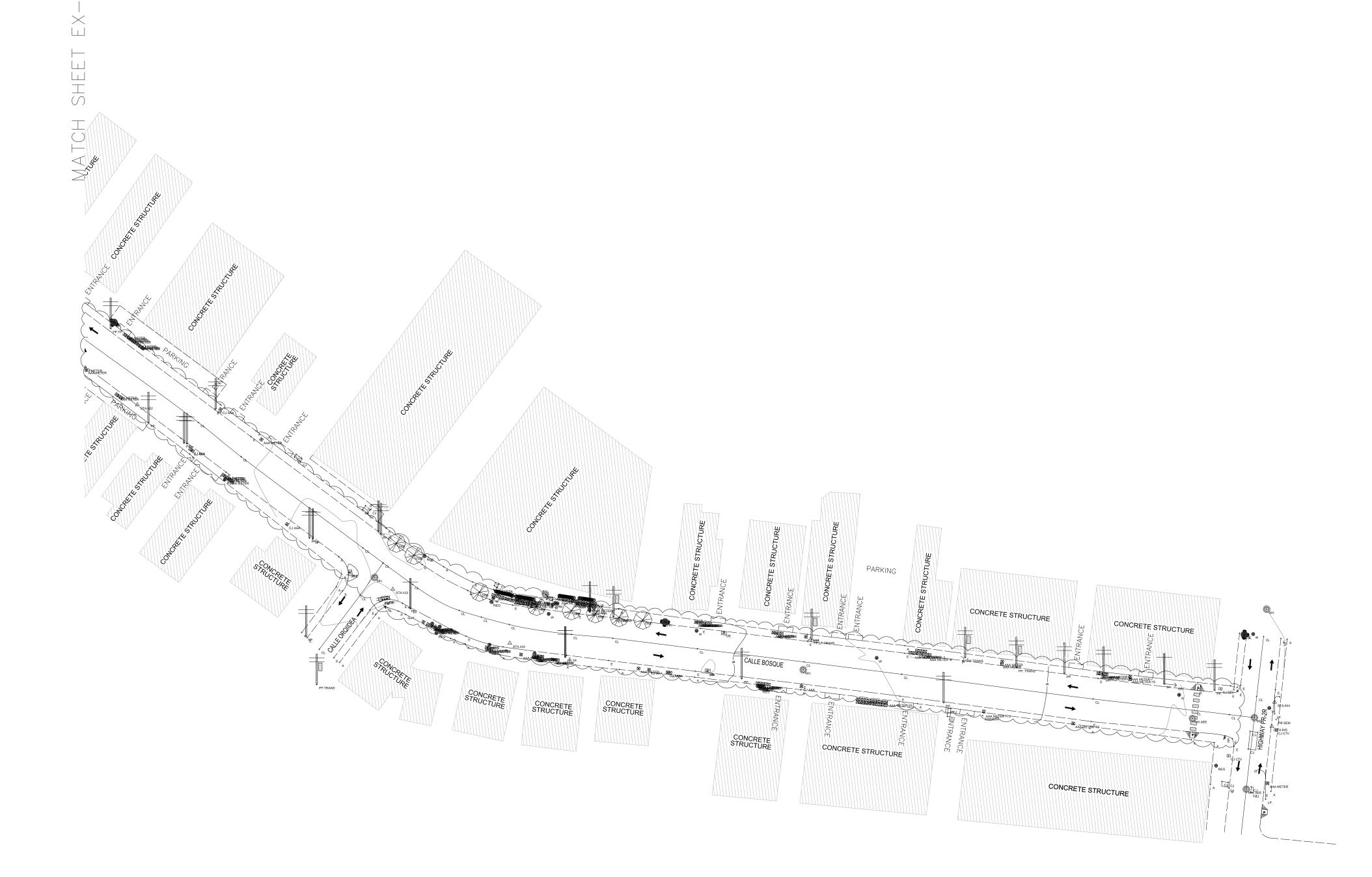
DEMOLITION PLAN
Existing Condition

Mayo 2023

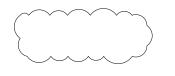
DRWG. SHEE



TRAFFIC SIGNAL CONTROLLER PULL BOX (30"X30") TRAFFIC SIGNAL HEAD TRAFFIC SIGNAL MAST ARM



NOTES:



Existing to be demolished

PR-CRP-000857

Existing Condit DEMOLITION &

DEMOLITION PLAN **Existing Condition**

Mayo 2023

DP-2

- ANY CONCRETE THAT CAN BE RECYCLED SHALL BE RECYCLED TO PRODUCE AN AASHTO MINIMUM CLASSIFICATION OF A - 2 - 4 SUB-BASE GRAVEL OR BETTER.
- ANY ASPHALT THAT CAN BE RECYCLED SHALL BE RECYCLES AND REUSE ON SITE.
- CONTRACTOR SHALL DISPOSE PROPERLY OF ALL NON-RECYCLABLE MATERIALS FROM DEMOLITION WORK, INCLUDING SITE GARBAGE ACCUMULATIONS, IN CERTIFIED LANDFILLS ACCORDING TO MUNICIPAL, STATE & FEDERAL REGULATIONS. SEE AND COMPLY WITH HAZARDOUS MATERIALS ABATEMENT REMOVAL & DISPOSAL REQUIREMENTS.
- 5. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE INFLICTED TO THE PROJECT PROPERTY OR ADJACENT PROPERTIES OR OTHER PROJECT AREAS TO REMAIN DURING THE DEMOLITION AND CONSTRUCTION PHASES. DAMAGED ITEMS SHALL BE RESTORED TO IT'S ORIGINAL CONDITION AT CONTRACTOR'S EXPENSE AND OWNER'S SATISFACTION AT NO ADDITIONAL COST TO OWNER.
- DEMOLITION AND REMOVAL SHALL BE CONDUCTED IN A MANNER THAT ELIMINATES HAZARDS TO PERSONS, THE ENVIRONMENT AND PROPERTY IN THE PROJECT AND THE SURROUNDING AREA. THE CONTRACTOR SHALL PREVENT THE RELEASE OF LEAD CONTAINING DUST WHERE APPLICABLE INTO THE AIR AND SOIL.
- 7. FOR ALL DEBRIS AND SCRAP MATERIALS CONTRACTOR SHALL DISPOSE OF AS TO MAINTAIN THE PROJECT SITE & SURROUNDINGS FREE OF WASTE MATERIALS, ACCORDING TO MUNICIPAL, STATE & FEDERAL REGULATIONS.
- 8. THE CONTRACTOR SHALL MAINTAIN ALL STREETS FREE OF OBSTRUCTIONS AND CLEAN AT ALL TIMES. WHERE WASHING WITH WATER IS REQUIRED TO CONSTRUCT OR TO PREVENT HEALTH HAZARDS TO ADJACENT RESIDENTIAL AND COMMERCIAL AREAS, CONTRACTOR SHALL USE WATER TANK TRUCKS AT HIS OWN COST OR REQUEST A TEMPORARY CONNECTION FROM AN AVAILABLE AAA METER, AND CAN NOT BE TAKEN FROM PUBLIC FIRE HYDRANTS OR NEIGHBORS.
- 9. THE CONTRACTOR SHALL SUBMIT, PROCURE AND OBTAIN ALL NECESSARY DOCUMENTS AND PERMITS FROM THE OGPE AND ENVIRONMENTAL QUALITY BOARD OF PUERTO RICO, SOLID WASTE AUTHORITY AND EPA, IN ORDER TO PROCEED WITH CONTRACTED WORK.
- 10. CONTRACTOR MUST MAINTAIN IN FULL FORCE ALL EXISTING PROJECT PERMITS AND / OR SUBMIT AND OBTAIN NEW THE NEW PERMITS AT HIS OWN COST.

- 11. THE CONTRACTOR WILL NOTIFY AND OBTAIN PERMIT FROM THE PUBLIC SERVICE COMMISSION PRIOR TO EXCAVATION AND DEMOLITION WORK IN THE PROJECT. PERMITS AND APPROVALS CONCERNING PROJECT ACTIVITIES MUST BE SUBMITTED TO THE OWNER AND HIS REPRESENTATIVE BEFORE PROCEEDING WITH ANY CORRESPONDING WORK.
- 12. PRIOR TO PROCEEDING WITH PLANTING AND REFORESTATION WORK, CONTRACTOR MUST FOLLOW THE REQUIREMENTS OF THE DEPARTMENT OF NATURAL RESOURCES A PERMIT FOR CUTTING, PRUNING AND PLANTING.
- 13. UTILITIES AND OR SERVICES (CONSISTING BUT NOT LIMITED TO WATER, SEWER, ELECTRICITY, GAS, CABLE TV, DATA AND TELEPHONE) CAN NOT BE SUSPENDED, WITHOUT PRIOR AUTHORIZATION OF THE PROJECT MANAGEMENT. IF ACCIDENTALLY ANY SERVICE IS INTERRUPTED DUE TO PROJECT ACTIVITIES, CONTRACTOR WILL PROVIDE IMMEDIATE REPAIR TO OWNER'S SATISFACTION AT NO ADDITIONAL COST TO OWNER.
- 14. THE CONTRACTOR IS RESPONSIBLE TO TAKE PHOTOS OF THE EXISTING CONDITIONS PRIOR TO BEGINNING DEMOLITION WORKS. 6. THE CONTRACTOR WILL PERFORM CONTINUOUS JOB SITE THIS IS REQUIRED FOR ANY CLAIM THAT ARISES AND MUST BE DELIVERED TO THE RESIDENT INSPECTOR FOR HIS FILES.
- 15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND DISPOSITION OF GARBAGE & RECYCLING DUMPSTERS DURING DEMOLITION AND CONSTRUCTION WORKS.
- 16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF TEMPORARY OR NECESSARY EQUIPMENTS OR UTILITIES FOR THE PROVISION OF ELECTRICITY, POTABLE WATER AND SANITARY SERVICES FOR THE CONSTRUCTION PERSONNEL AND FOR THE CONSTRUCTION INSPECTION TEAM DURING THE DEMOLITION AND CONSTRUCTION PERIOD. THE CONTRACTOR SHALL ALSO PROVIDE 8. THE CONTRACTOR WILL BE RESPONSIBLE FOR FIRE TEMPORARY OFFICE TRAILER FOR THE CONSTRUCTION INSPECTION TEAM.

DEMOLITION NOTES - ELECTRICAL WORKS:

- 1. CONTRACTOR SHALL REMOVE ALL ELECTRICAL EQUIPMENT AND MATERIALS FROM AREAS TO BE REMODELED TAKING CARE THAT CIRCUITS THAT ARE TO BE KEPT ENERGIZED ARE COORDINATED TO MAINTAIN THESE SERVICES.
- 2. EXISTING CIRCUITS AFFECTED BY THIS REMODELING SHALL BE CHECKED SO THAT THEY ARE LEFT WITHOUT SHORTS AND FREE FROM ANY DEFECTS.
- 3. IN AREAS REMODELED, CONTRACTOR SHALL REMOVE ALL CONDUITS NOT EMBEDDED IN CONCRETE. CONDUITS EMBEDDED IN CONCRETE THAT ARE ABANDONED SHALL BE LEFT WITHOUT ANY CONDUCTORS.
- 4. ALL BOXES SHALL BE PROVIDED WITH BLANK PLATES.
- 5. CONTRACTOR MUST VERIFY THAT PANELBOARDS INSTALLATION COMPLIES WITH NEC REQUIREMENTS AND THAT IT HAS ALL PROTECTIVE COVERS, DOORS AND BREAKERS SPACES COVERS TO AVOID ANY EXPOSURE TO LIVE PARTS

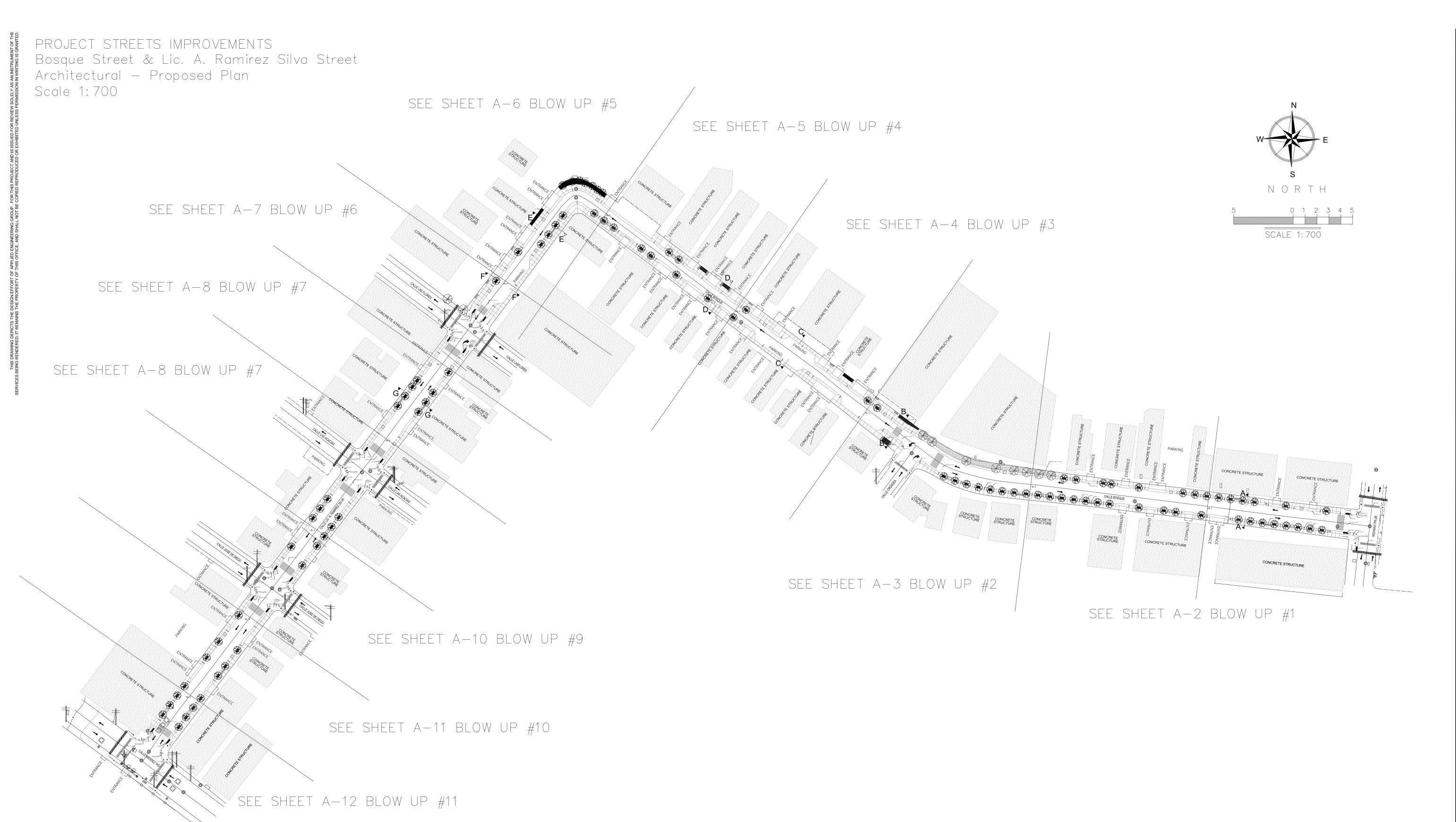
DEMOLITION NOTES - SAFETY AND HEALTH PRECAUTIONS

- 1. CONTRACTOR SHALL PROVIDE A RISK FREE ENVIRONMENT FOR ALL EMPLOYEES AND THEIR SURROUNDING. HE MUST GUARANTEE THE SAFETY AND HEALTH OF ALL EMPLOYEES, SUBCONTRACTORS AND VISITORS.
- 2. THE CONTRACTOR SHALL PROVIDE A SAFETY AND HEALTH PLAN PRIOR TO START ANY FIELD WORK.
- 3. SAFETY MEASURES AND PRECAUTIONS DURING DEMOLITION/CONSTRUCTION (ALL O.S.H.A. AND E.P.A. UPDATED COMPLIANCE IS UNDER EFFECT).
- 4. GENERAL WORK RELATED TO THE DEMOLITION OR ALTERATION TO THE PROJECT SITE MUST BE UNDERTAKEN IN CONFORMITY WITH THIS SAFETY PLAN.
- 5. SAFETY MEETINGS THE CONTRACTOR WILL PERFORM WEEKLY SAFETY TOURS AND MEETINGS WITH HIS PERSONNEL TO TRAIN AND DISCUSS THE BEST PRACTICES AND SAFETY MEASURES TO BE IMPLEMENTED IN THE PROJECT.
- INSPECTIONS CONFIRM ANY POTENTIAL SAFETY HAZARDS IF A POTENTIAL HAZARD IS SUSPECTED OR FOUND, THE CONTRACTOR. WILL USE THE APPROPRIATE METHODS, EQUIPMENT, DEVICES AND MATERIAL TO ASSURE A SAFE WORKPLACE, SAFETY TOURS. AND TO MAINTAIN A SAFE AND ACCIDENT FREE JOB.
- 7. THE CONTRACTOR WILL PROVIDE TRAINED AND EXPERIENCED PERSONNEL TO ASSURE A JOB PROPERLY DONE AND SAFE. THE CONTRACTOR SHALL PROVIDE A HEALTH & SAFETY COORDINATOR.
- PROTECTION IN THE WORK AND OPERATIONAL AREAS.
- 9. THE PLAZA DEL MERCADO AND ITS COMMERCIAL SPACES CANNOT BE USE FOR THE STORAGE OF CONSTRUCTION OR COMBUSTIBLE MATERIAL.
- 10. THE CONTRACTOR SHALL PROVIDE FIRE EXTINGUISHERS FOR THE ENTIRE DEMOLITION / CONSTRUCTION AREA.
- 11. ALL HEAVY EQUIPMENT SHOULD HAVE ITS OWN FIRE EXTINGUISHERS OR HAVE ONE AVAILABLE IN A 100 FEET RADIUS FROM IT.
- 12. DURING DEMOLITION / CONSTRUCTION PERIOD FREE ACCESS TO FIRE HYDRANTS, OR TO OTHER FIRE EXTINGUISHING EQUIPMENT, SHALL BE PROVIDED AND MAINTAINED AT ALL TIMES.
- 13. CONTRACTOR EMPLOYEES WILL BE REQUIRED TO DRESS PROPERLY WHILE PERFORMING THEIR JOB. EACH WORKER WILL USE APPROPRIATE WORKING SAFETY SHOES. PROPER RESPIRATORY PROTECTION WILL BE USE WHENEVER REQUIRED. PROPER HAND PROTECTION WILL BE USE WHEN REQUIRED.PROPER HEARING PROTECTION WILL BE USED IN AREAS WHERE SOUNDS ARE HIGHER THAN 80 DBS.

Existing Condition

DP-3

Mayo 2023



APPLIED ENGINEERING GROUP
MANAGERS, ARCHITECTS, ENGINEERS AND PLANNERS

10 St. Montecarlo Avenue #866 Río Piedras, PR 00924
P.O. Box 361298 San Juan, Puerto Rico 00936-1298
Office: 787 - 771-5071 / 787 - 771-5079 AEG@aegroup-pr.com

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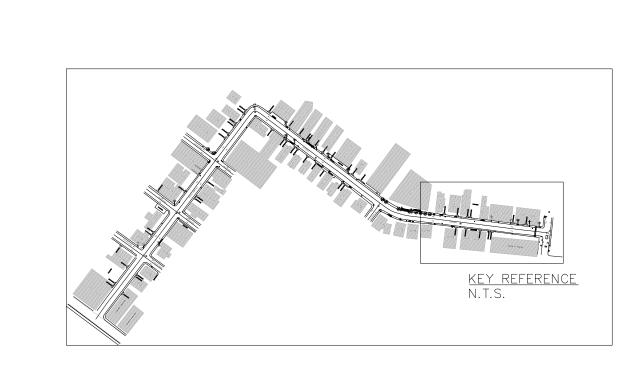
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PROPOSED PLAN ARCHITECTURAL SITE PLAN VIE C. BOSQUE & C. LIC. RAMIREZ SILVA

ROYECTO PR-CRP-000857
EJORAS A LA CALLE BOSQUE Y
ALLE LIC. A. RAMIREZ SILVA
ayagüez, P.R. 00680

Architectural Proposed Plan

Mayo 2023



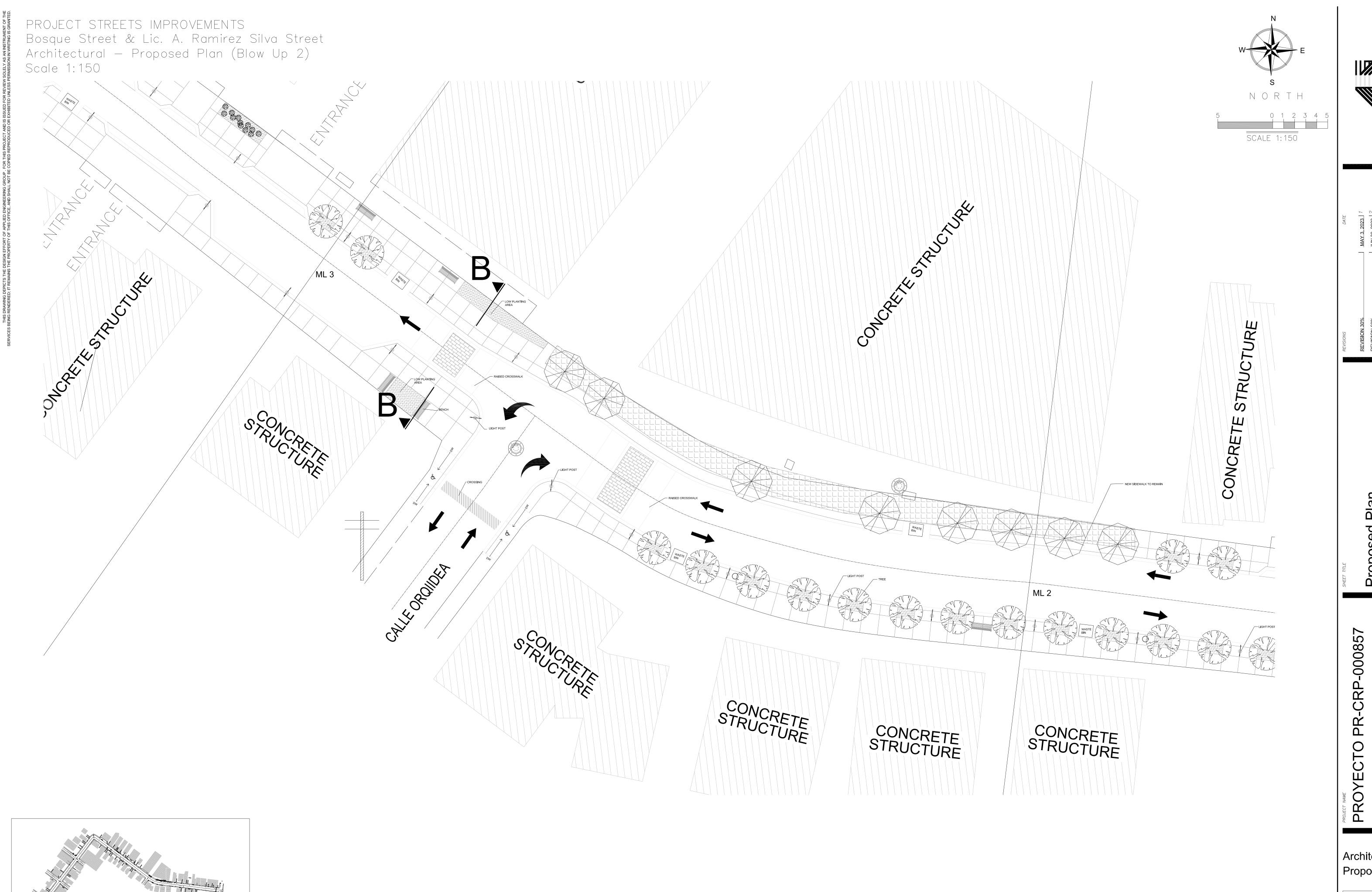
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MANAGERS, ARCHITECTS, ENGINEERS AND PLANNE
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PROPOSED PLAN
ARCHITECTURAL SITE PLAN VIE
BLOW UP 1

PROYECTO PR-CRP-000857
MEJORAS A LA CALLE BOSQUE Y
CALLE LIC. A. RAMIREZ SILVA
Mayagüez, P.R. 00680

Architectural
Proposed Plan

Mayo 2023



KEY REFERENCE N.T.S.

Proposed Plan ARCHITECTURAL Blow Up 2

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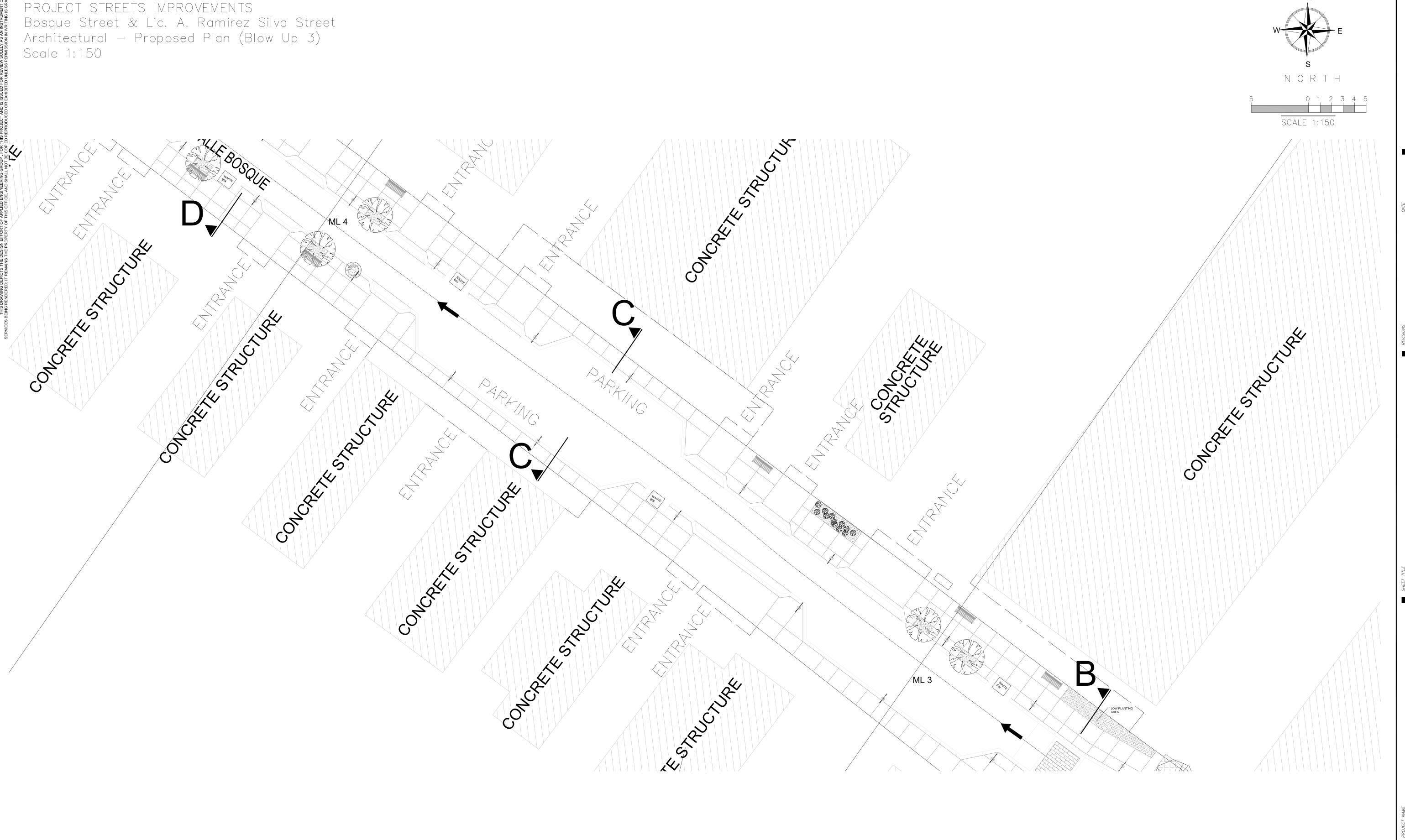
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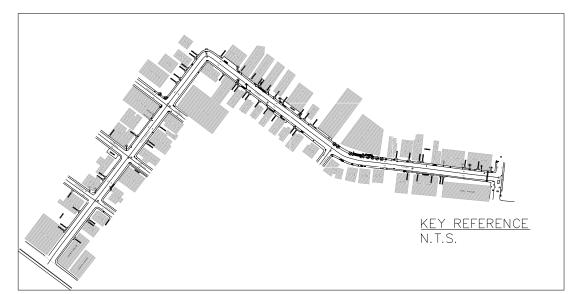
B. A. RAMIREZ SILVA

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Architectural Proposed Plan

Mayo 2023





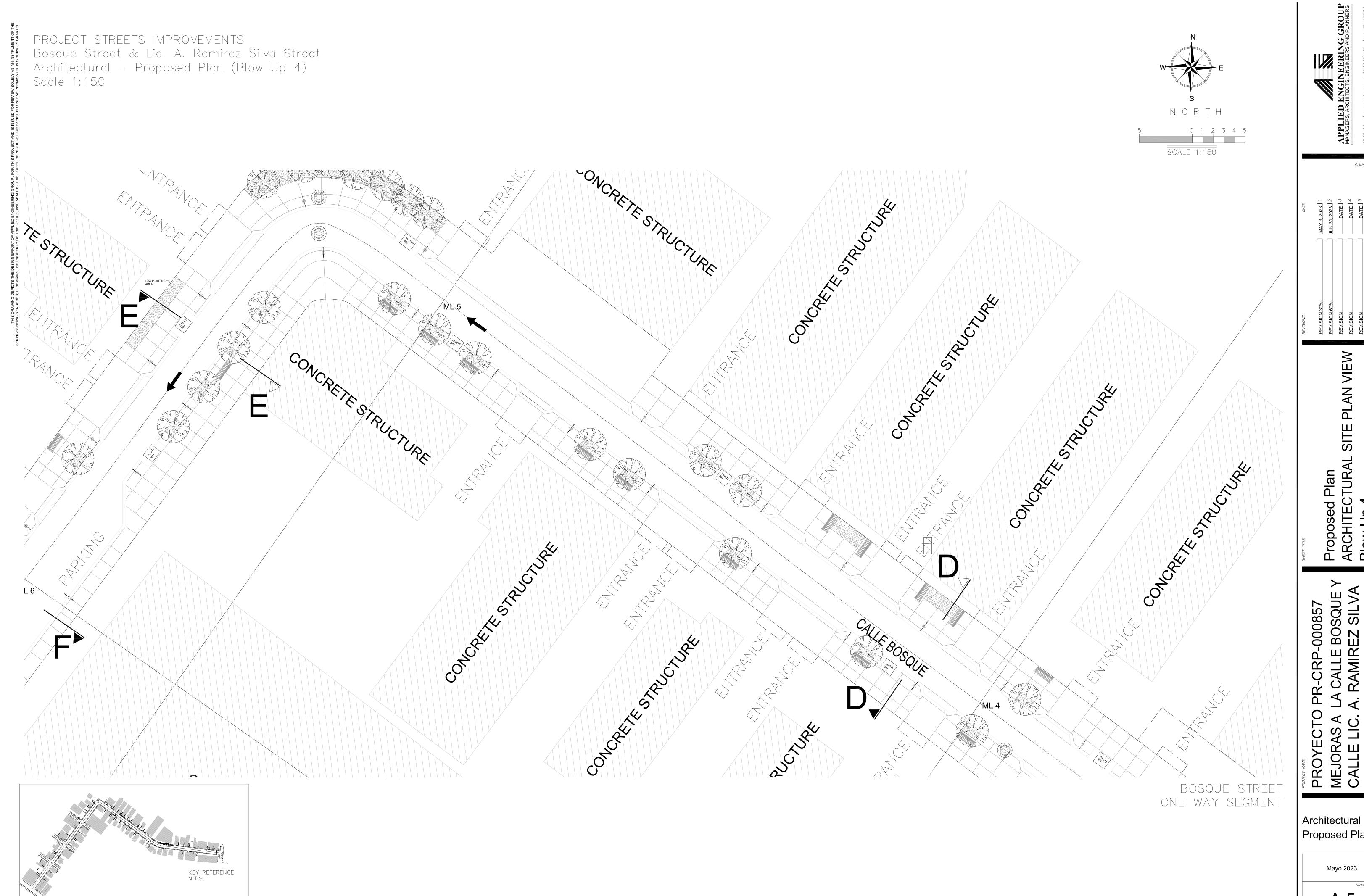
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MANAGERS, ARCHITECTS, ENGINEERS AND PLANNE
10 St. Montecarlo Avenue #866 Río Piedras, PR 009
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Proposed Plan ARCHITECTURAL SITE PLAN VI Blow Up 3

PROYECTO PR-CRP-000857
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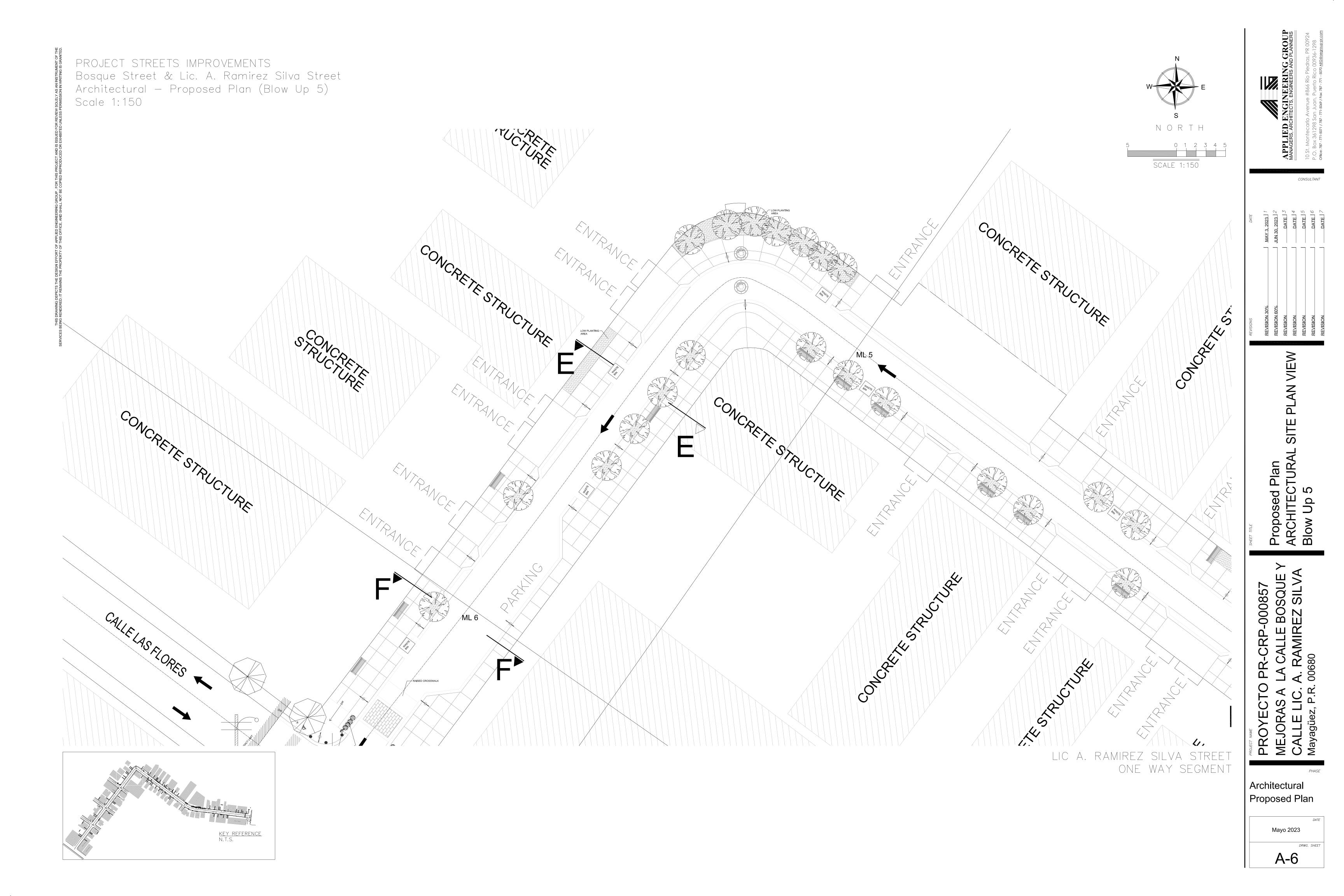


Proposed Plan ARCHITECTURAL Blow Up 4

PROYECTO PR-CRP-000857
MEJORAS A LA CALLE BOSQUE Y
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Mayagüez, P.R. 00680

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Mayo 2023



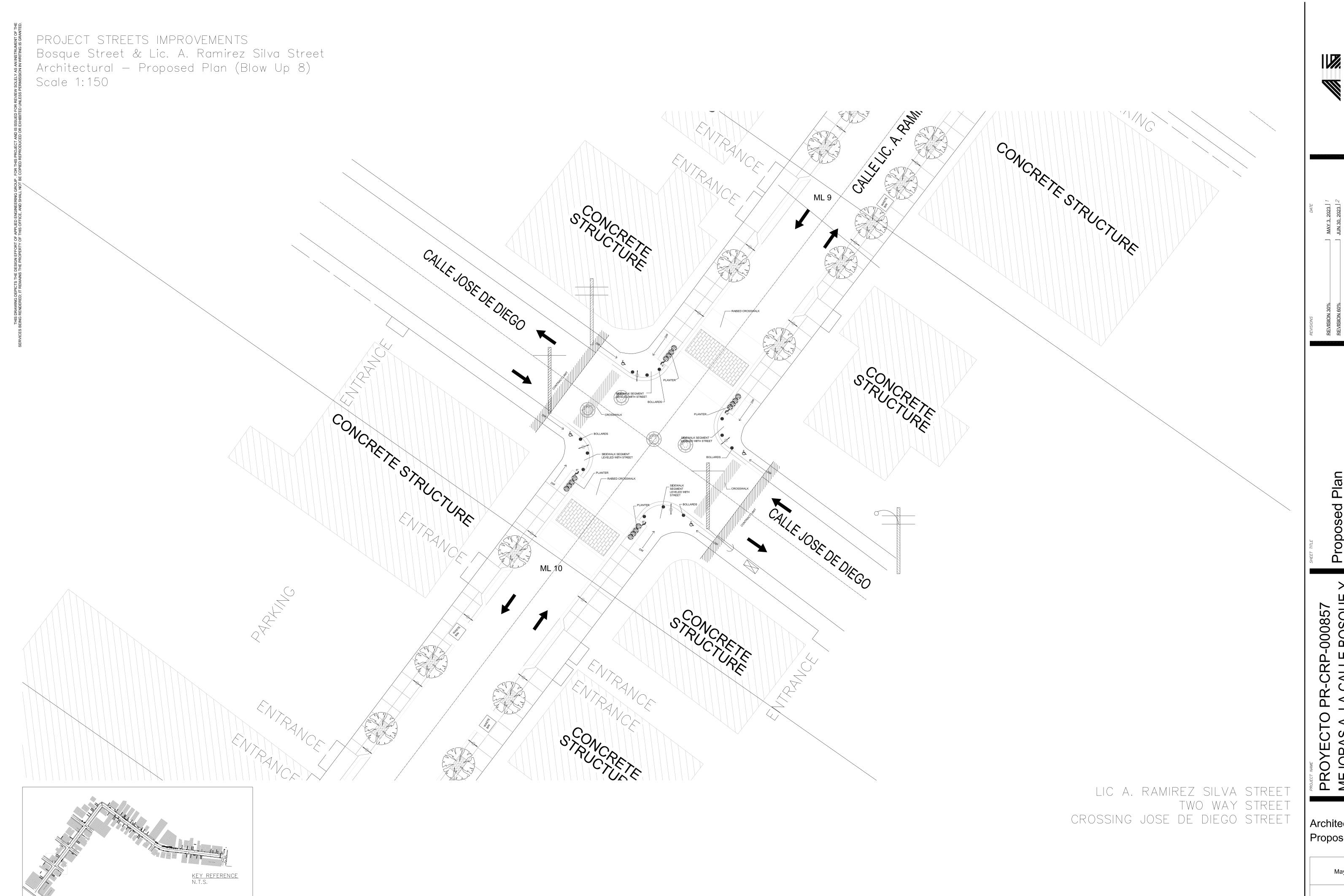


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Mayagüez, P.R. 00680

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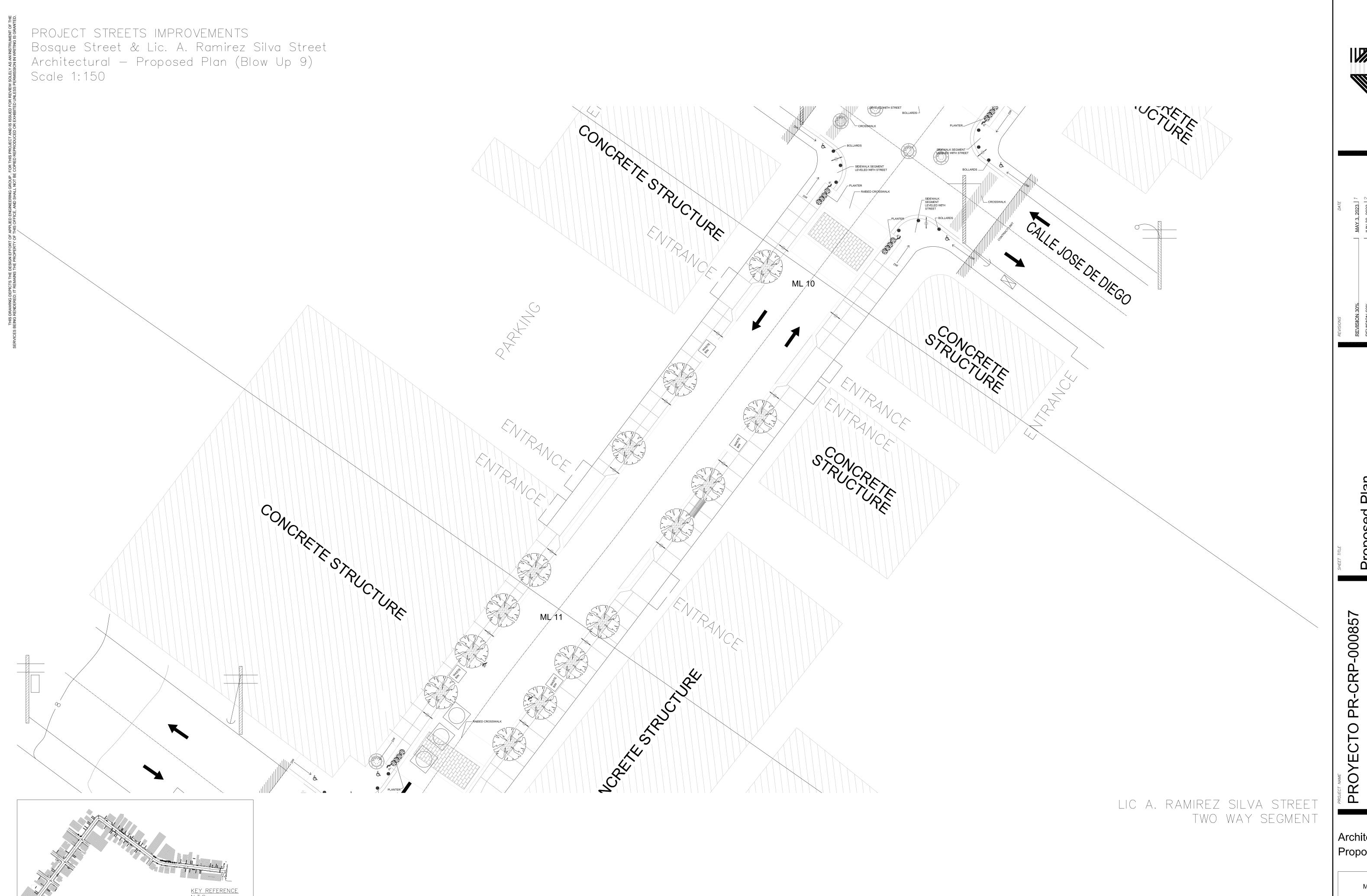




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Mayagüez, P.R. 00680

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ce; 787 - 771-5070 1787 - 771-5069 / Fax; 787 - 771 - 5070 AEG@aegroup-pr.co

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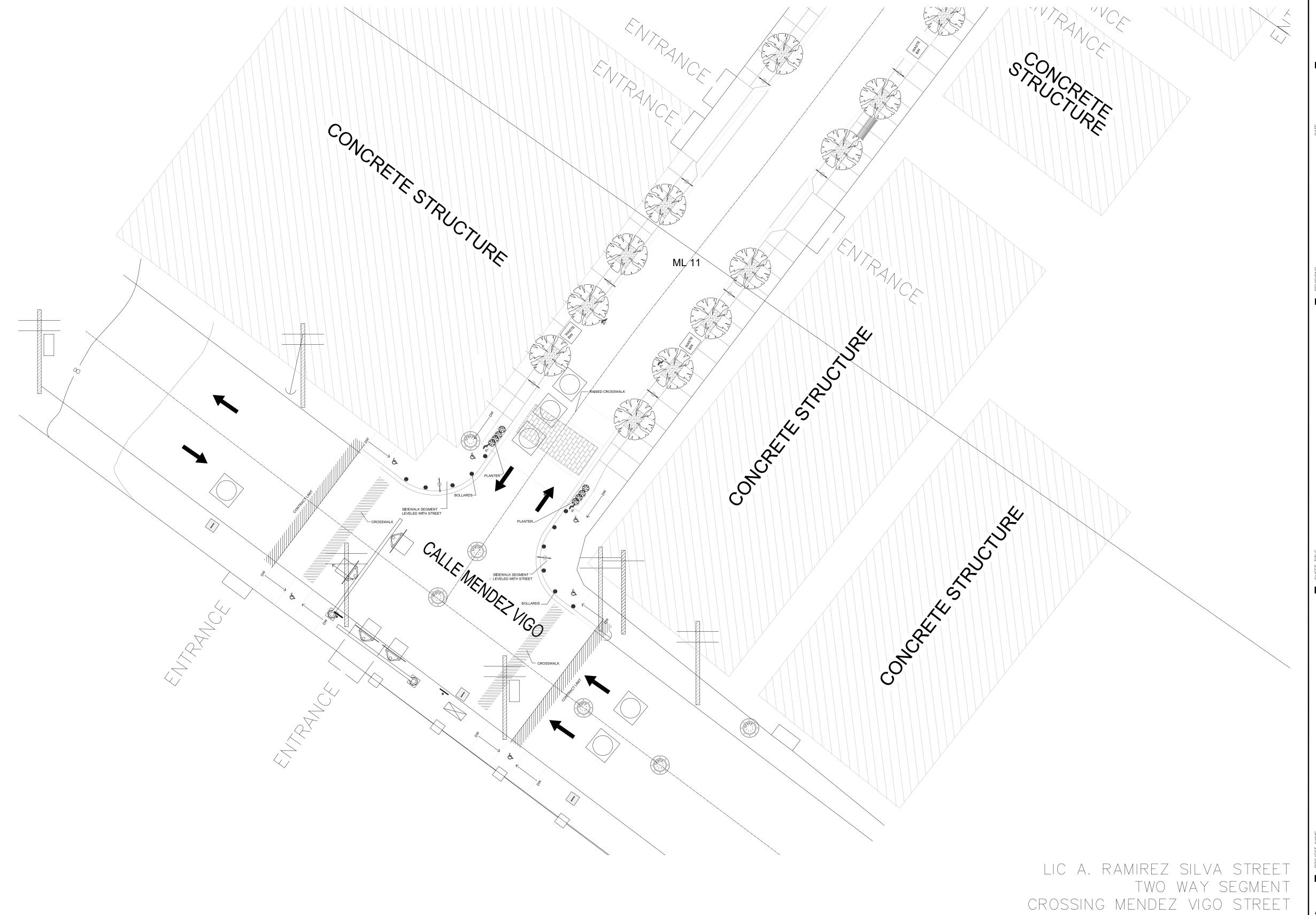
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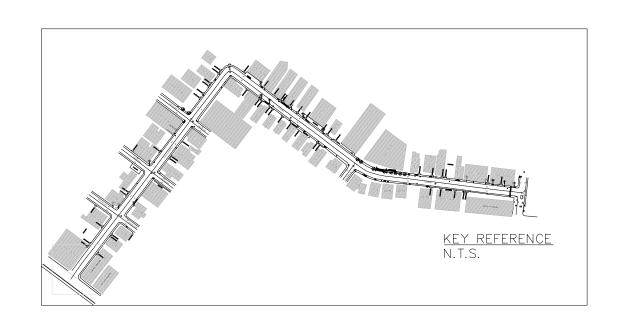
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PROYECTO PR-CRP-000857
MEJORAS A LA CALLE BOSQUE Y
CALLE LIC. A. RAMIREZ SILVA
Mayagüez, P.R. 00680

Architectural
Proposed Plan

Mayo 2023





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30x 361298 San Juan, Puerto Rico 00936-1298
187-771-5071 / 187-771-5069 / Fax: 787-771 - 5070 AEG@aegroup-PD.

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PROYECTO PR-CRP-000857

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CALLE LIC. A. RAMIREZ SILVA
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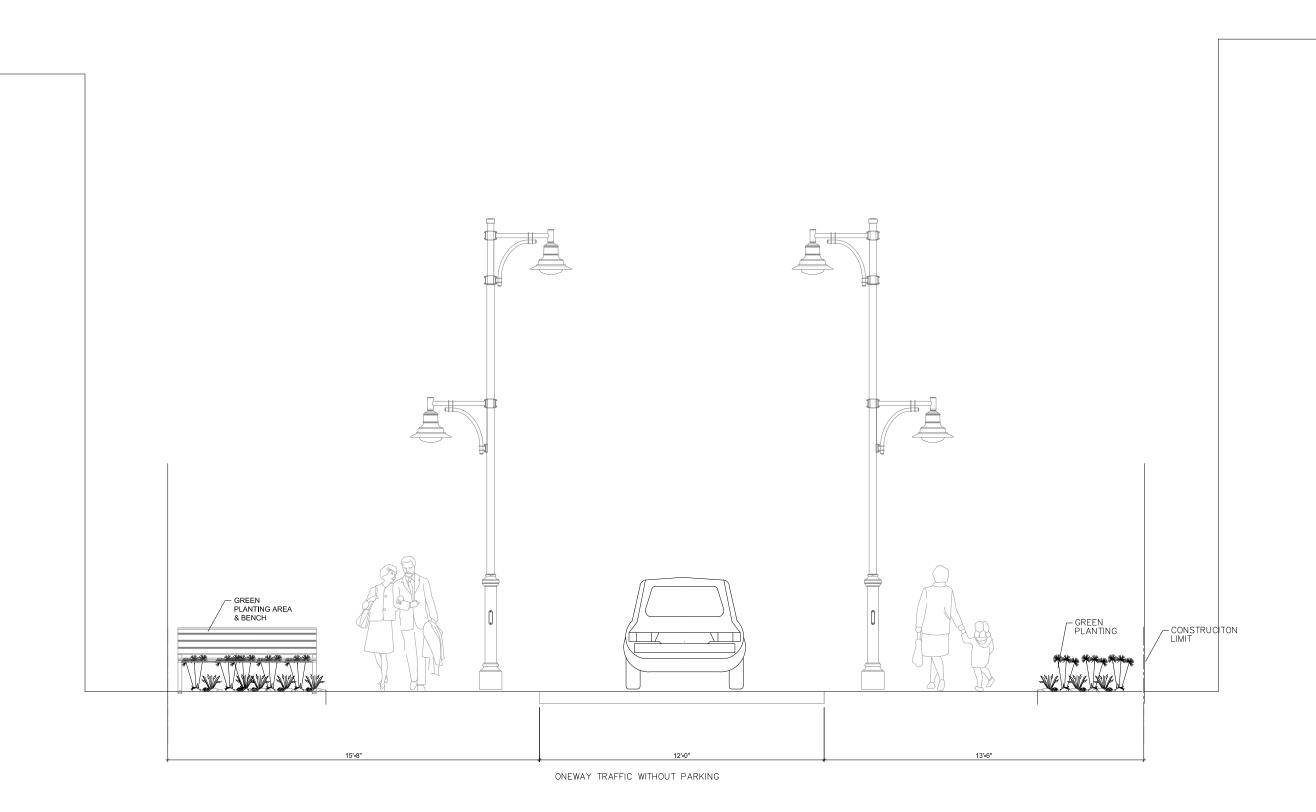
Proposed Plan

Mayo 2023

TWO WAY TRAFFIC WITH PARALLEL PARKING ON BOTH SIDES

EXISTING TYP. SECTION

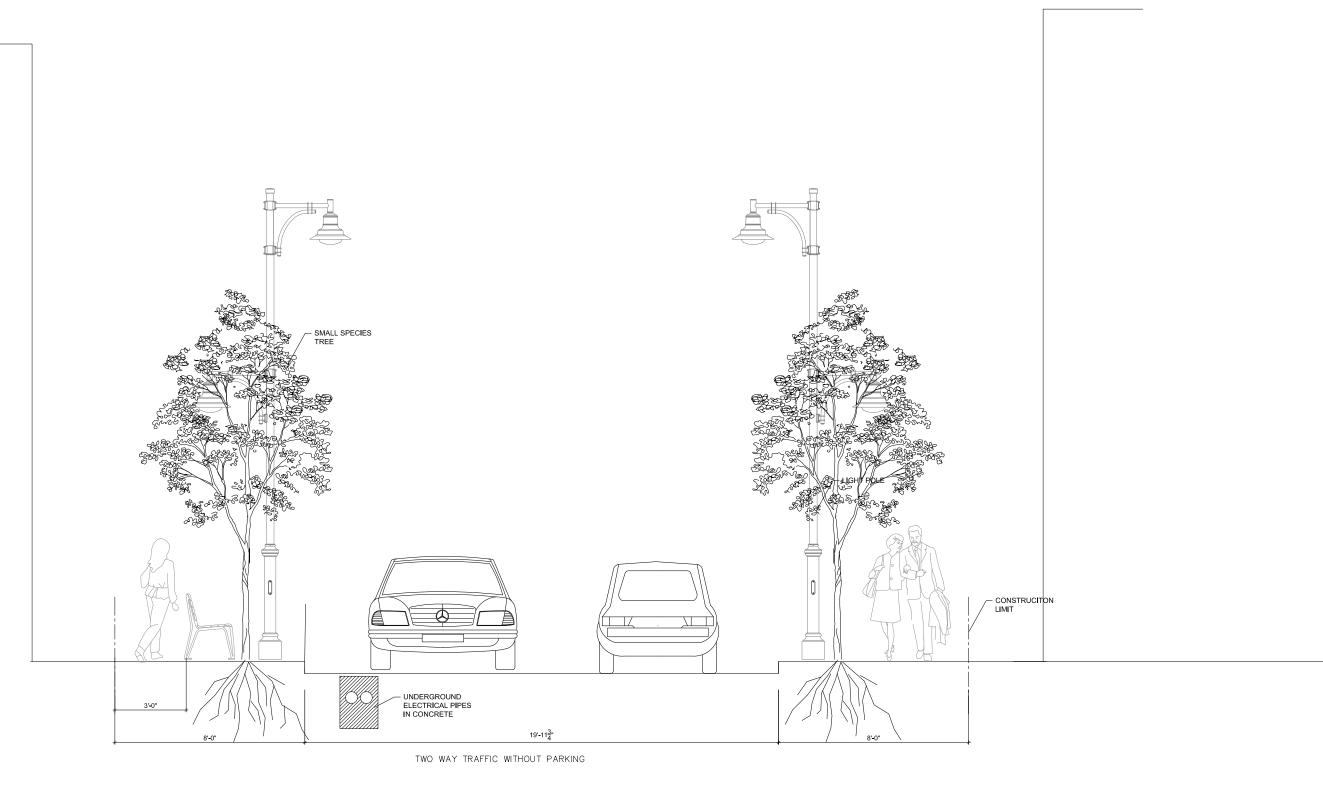
SCALE: 1/4" = 1'-0"



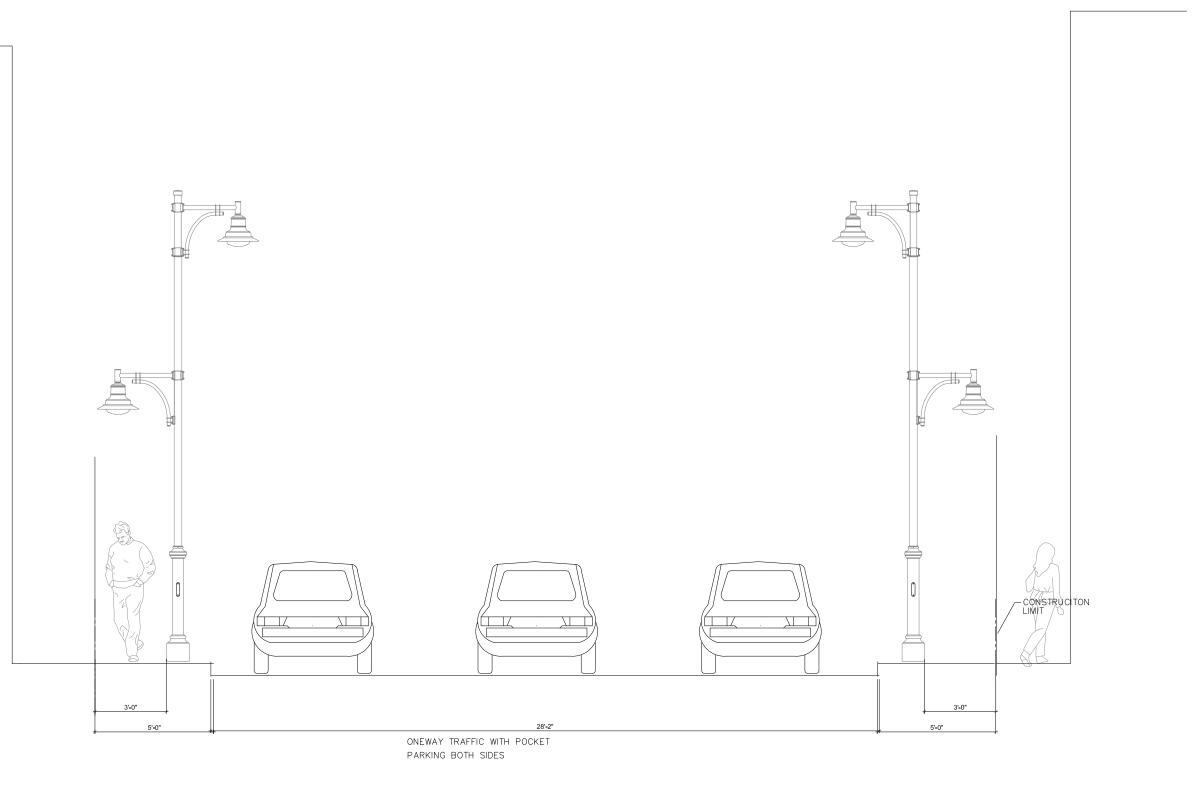
PROPOSED ONE WAY STREET

SECTION B-B

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



PROPOSED TWO WAY STREET
SECTION A-A SCALE: 1/4" = 1'-0"



PROPOSED ONE WAY STREET
WITH POCKET PARKING
SECTION C-C
SCALE: 1/4" = 1'-0"



PROYECTO PR-CRP-000857
MEJORAS A LA CALLE BOSQUE Y
CALLE LIC. A. RAMIREZ SILVA
Mayagüez, P.R. 00680

Architectural Proposed Plan

Mayo 2023

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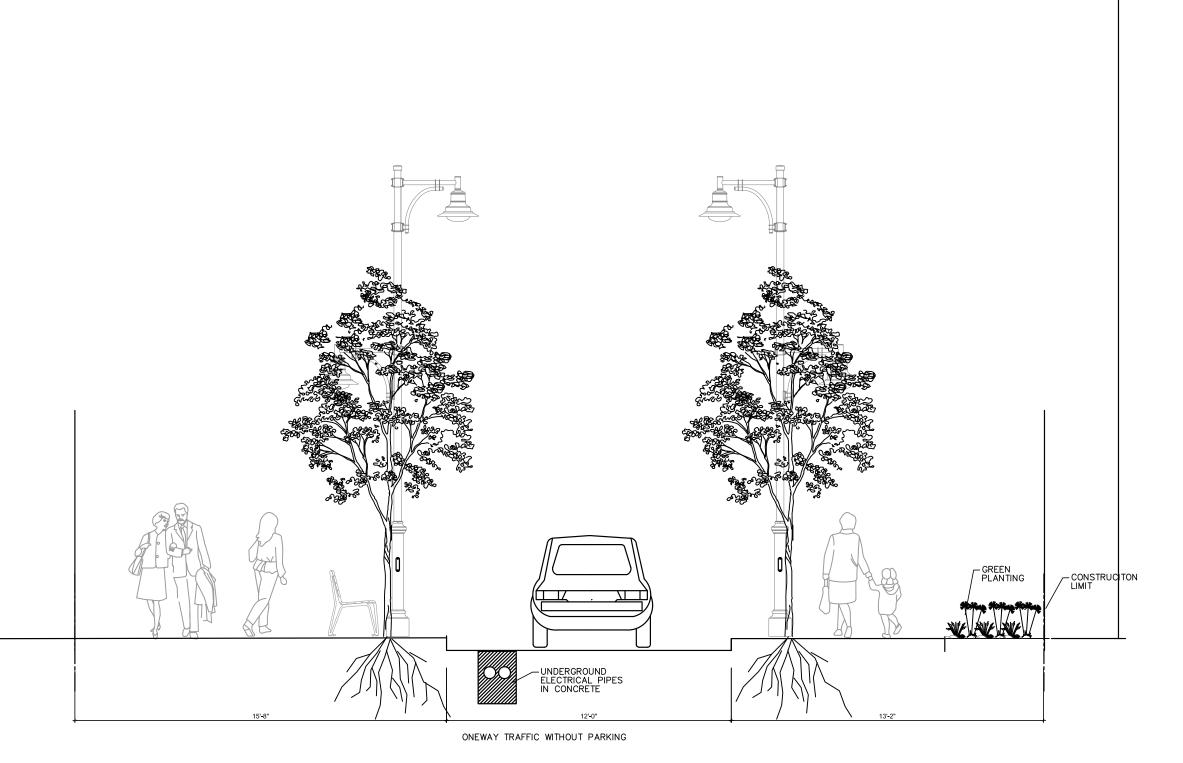


PROPOSED ONE WAY STREET SECTION D-D

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



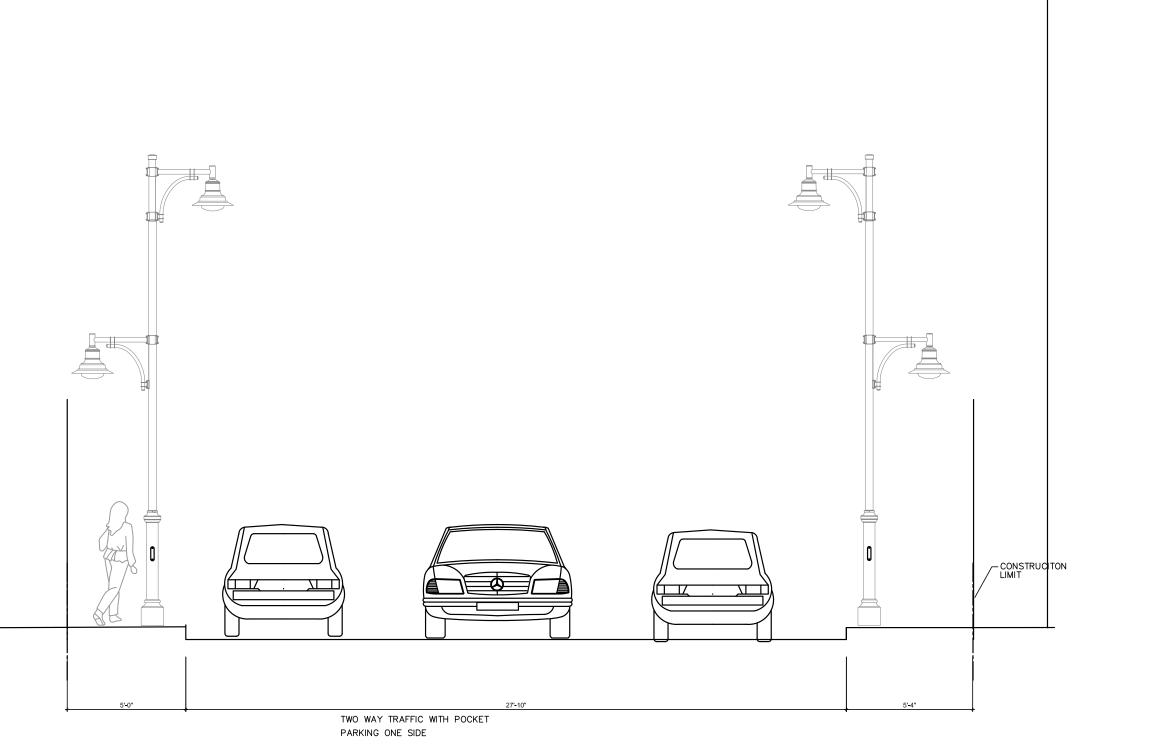
PROPOSED ONE WAY STREET
WITH POCKET PARKING
SECTION F-F
SCALE: 1/4" = 1'-0"



PROPOSED ONE WAY STREET

SECTION E-E

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



PROPOSED OPTION 2 ——POCKET
PARKING AT ONE SIDE OF TWO
WAY BOSQUE STREET
SECTION G—G
SCALE: 1/4" = 1'-0"

Architectural Proposed Plan

Mayo 2023

GEOMETRY-PARTIAL PLAN 1

NEW CONDITION - ROAD
GEOMETRY AND CATCHES
REVISIONS

PROYECTO MEJORAS VIALES
CALLE BOSQUE & CALLE LIC.
RAMIREZ SILVA

PHASE
ARCHITECTURE NEW
CONDITION - ROAD
GEOMETRY

JUNE 2023

NEW CONDITION - ROAD
GEOMETRY AND CATCHES
REVISIONS

PROYECTO MEJORAS VIALES
CALLE BOSQUE & CALLE LIC.
RAMIREZ SILVA

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ARCHITECTURE NEW
CONDITION - ROAD
GEOMETRY

JUNE 2023

CONSULTANT

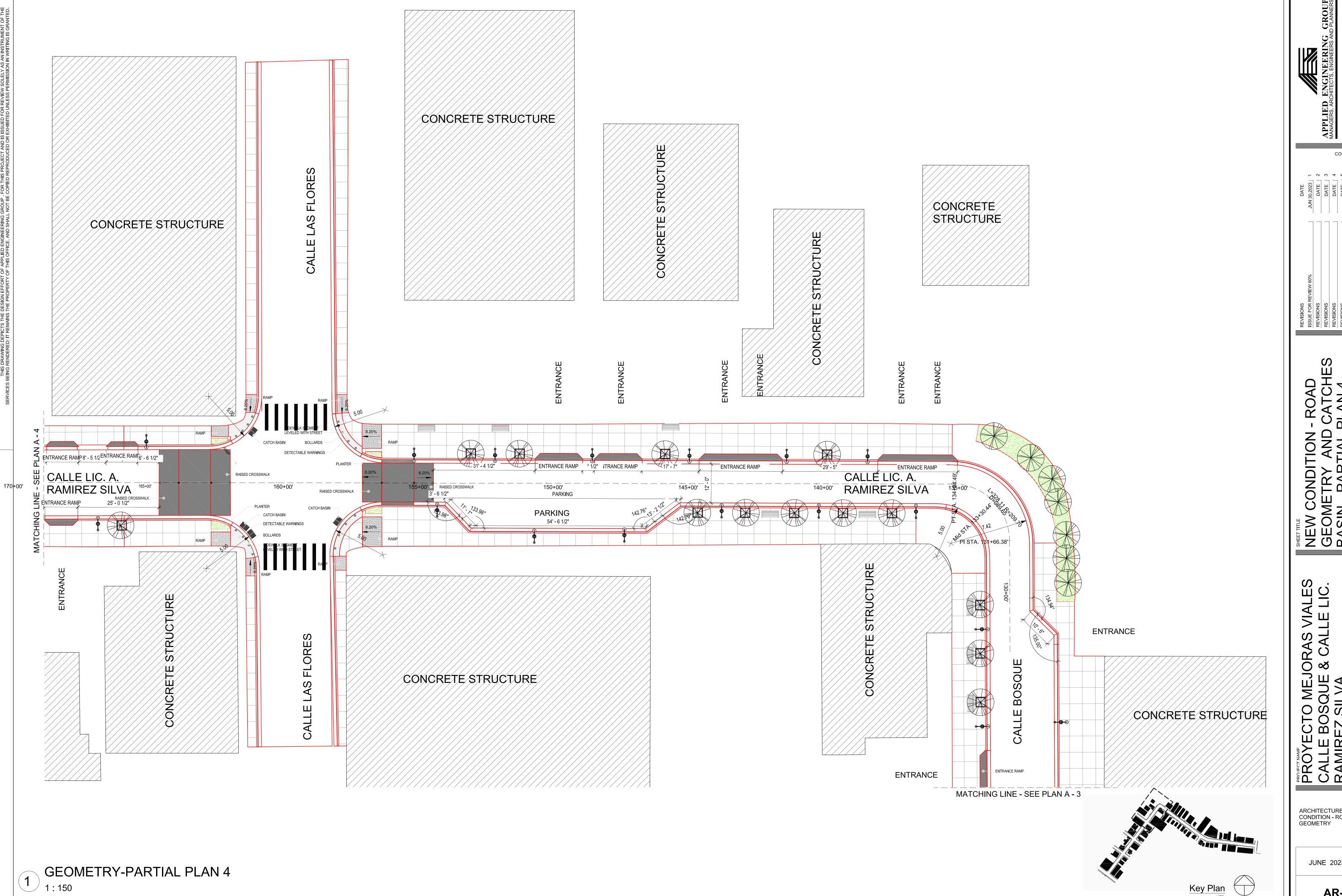
NEW CONDI GEOMETRY BASIN- PAR

PROYECTO MEJORAS VIALES
CALLE BOSQUE & CALLE LIC.
RAMIREZ SILVA

ARCHITECTURE NEW CONDITION - ROAD GEOMETRY

AUGUST 2023

DRWG. SHEET AR-3

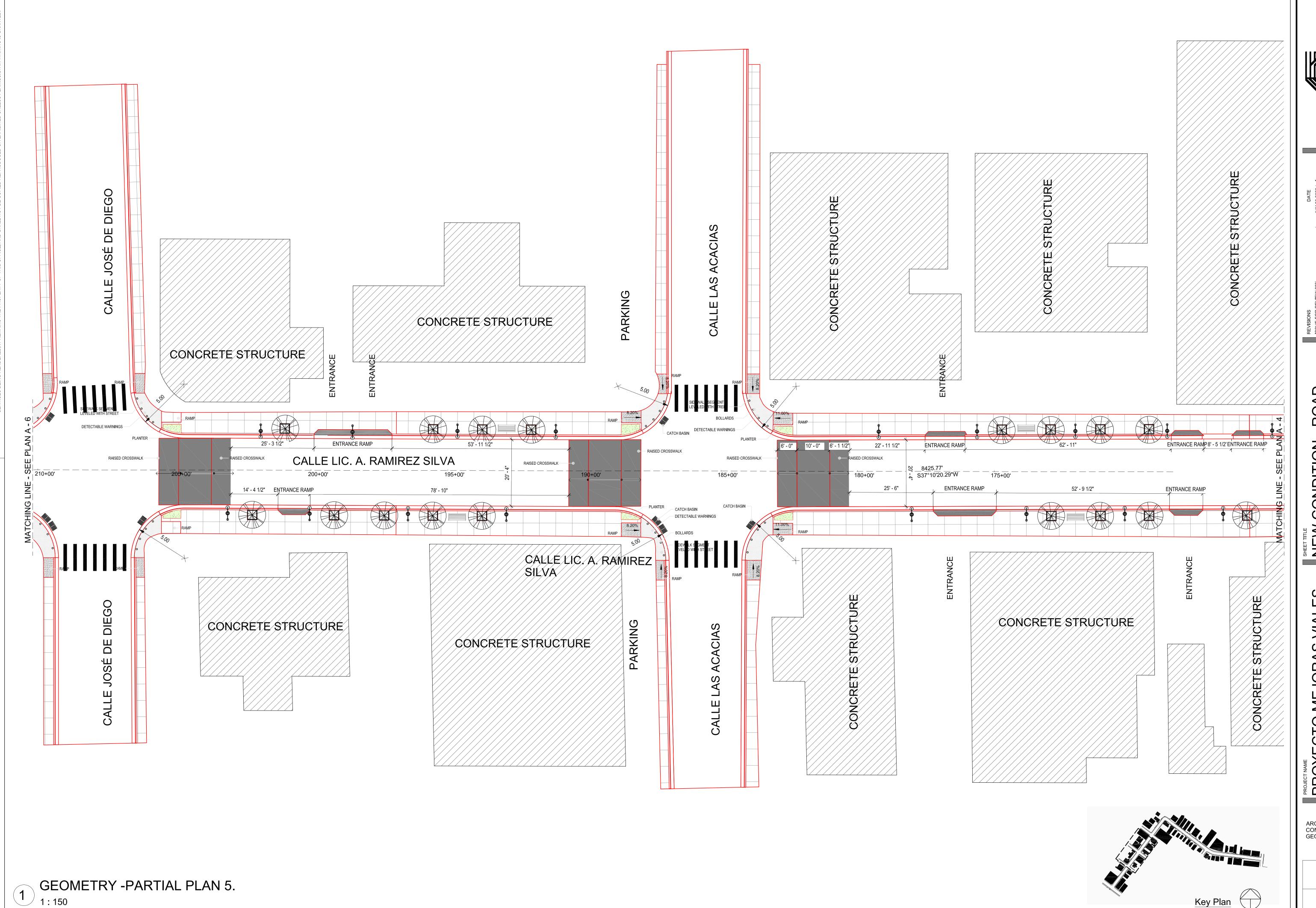


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ROYECTO MEJORAS VIALES ALLE BOSQUE & CALLE LIC. AMIREZ SILVA

ARCHITECTURE NEW CONDITION - ROAD GEOMETRY

JUNE 2023



NEW CONDITION - ROAD
GEOMETRY AND CATCHES
BASIN - PARTIAL PLAN 5
REVISIO REVIS

CONSULTANT

PROYECTO MEJORAS VIALES
CALLE BOSQUE & CALLE LIC.
RAMIREZ SILVA

PHAS
ARCHITECTURE NEW
CONDITION - ROAD
GEOMETRY

JUNE 2023

RAMP

S DEWARD SEGN NT
LEVELED WITH STREET

BOLLARDS -

6' - 0" RAMP 10' - 0" 6' - 0"

RAISED CROSSWALK

1036.08' S35°11'18.34"W 235+ RAISED CROSSWALK 00'

ENTRANCE

JOSÉ DE DIEGO

ENTRANCE RAMP JOSÉ DE DIEGO CONCRETE STRUCTURE

CONCRETE STRUCTURE

ENTRANCE RAMP 10' - 11" 4' - 1" 10' - 0" 5' - 0"

PARKING

60' - 6"

CONCRETE STRUCTURE

230+00'

60' - 9"

CONCRETE STRUCTURE

ENTRANCE

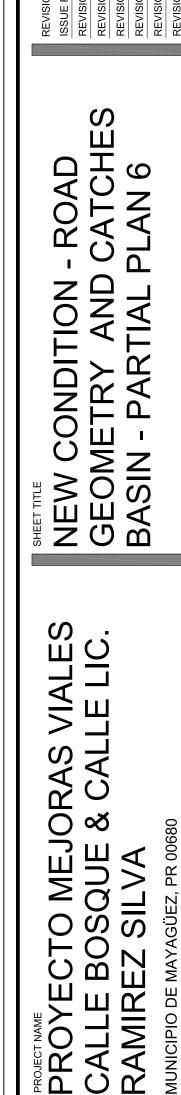
ARCHITECTURE NEW CONDITION - ROAD GEOMETRY

JUNIO 2023

AR-6

DRWG. SHEET

GEOMETRY-PARTIAL PLAN 6



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ARCHITECTURE NEW CONDITION - FINISHES

JUNE 2023

TIAL PLAN 2 - FINISHES ISSUE FOR REVIEW 60% REVISIONS

PROYECTO MEJORAS VIALES
CALLE BOSQUE & CALLE LIC.
RAMIREZ SILVA

PHASE ARCHITECTURE NEW CONDITION - FINISHES

JUN 2023

PARTIAL PLAN 3 - FINISHES

REVISION
REVISION

CONSULTANT

PROYECTO MEJORAS VIALES
CALLE BOSQUE & CALLE LIC.
RAMIREZ SILVA

PHASE ARCHITECTURE NEW CONDITION - FINISHES

JUNE 2023

ARTIAL PLAN 4 - FINISHES

CONSULTANT

ROYECTO MEJORAS VIALES ALLE BOSQUE & CALLE LIC. AMIREZ SILVA

PHASE ARCHITECTURE NEW CONDITION - FINISHES

JUNE 2023

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ARCHITECTURE NEW CONDITION - FINISHES

JUNE 2023

PHASE ARCHITECTURE NEW CONDITION - FINISHES

JUNE 2023

NEW CONDITION STRUCTURE - PARTIAL

PROYECTO PR-CRP-000857
MEJORAS A LA CALLE BOSQUE
Y CALLE LIC. RAMIREZ SILVA
MUNICIPIO DE MAYAGÜEZ, PR 00680

ROAD STRUCTURE

JUNE 2023



NEW CONDITION STRUCTURE - PARTIL PLAN 2

PROYECTO PR-CRP-000857
MEJORAS A LA CALLE BOSQUE
Y CALLE LIC. RAMIREZ SILVA
MUNICIPIO DE MAYAGÜEZ, PR 00680

ROAD STRUCTURE

JUNE 2023

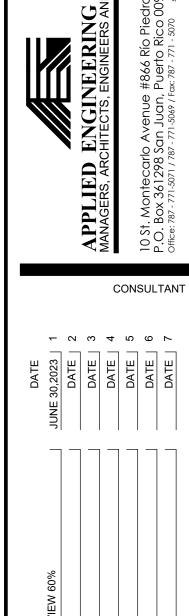
NEW CONDITION
STRUCTURE - PARTIAL PLAN 3
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PROYECTO PR-CRP-000857
MEJORAS A LA CALLE BOSQUE
Y CALLE LIC. RAMIREZ SILVA
MUNICIPIO DE MAYAGÜEZ, PR 00680

PHA ROAD STRUCTURE

JUNE 2023



NEW CONDI STRUCTURE PROYECTO PR-CRP-000857
MEJORAS A LA CALLE BOSQUE
Y CALLE LIC. RAMIREZ SILVA
MUNICIPIO DE MAYAGÜEZ, PR 00680

ROAD STRUCTURE

JUNE 2023

NEW CONDITION
STRUCTURE - PARTIAL PLAN 5
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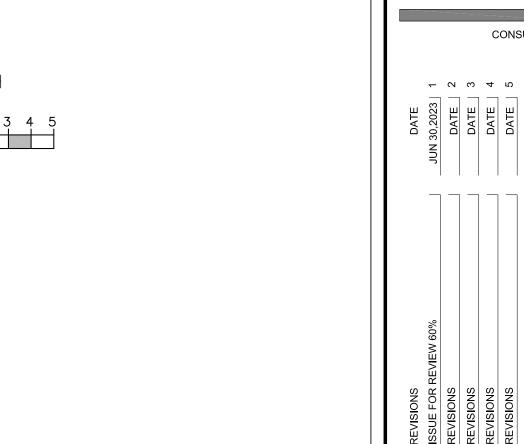
PROYECTO PR-CRP-000857
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Y CALLE LIC. RAMIREZ SILVA
MUNICIPIO DE MAYAGÜEZ, PR 00680

PH/ ROAD STRUCTURE

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ROAD SIGN AND
DEMARCATION - 1

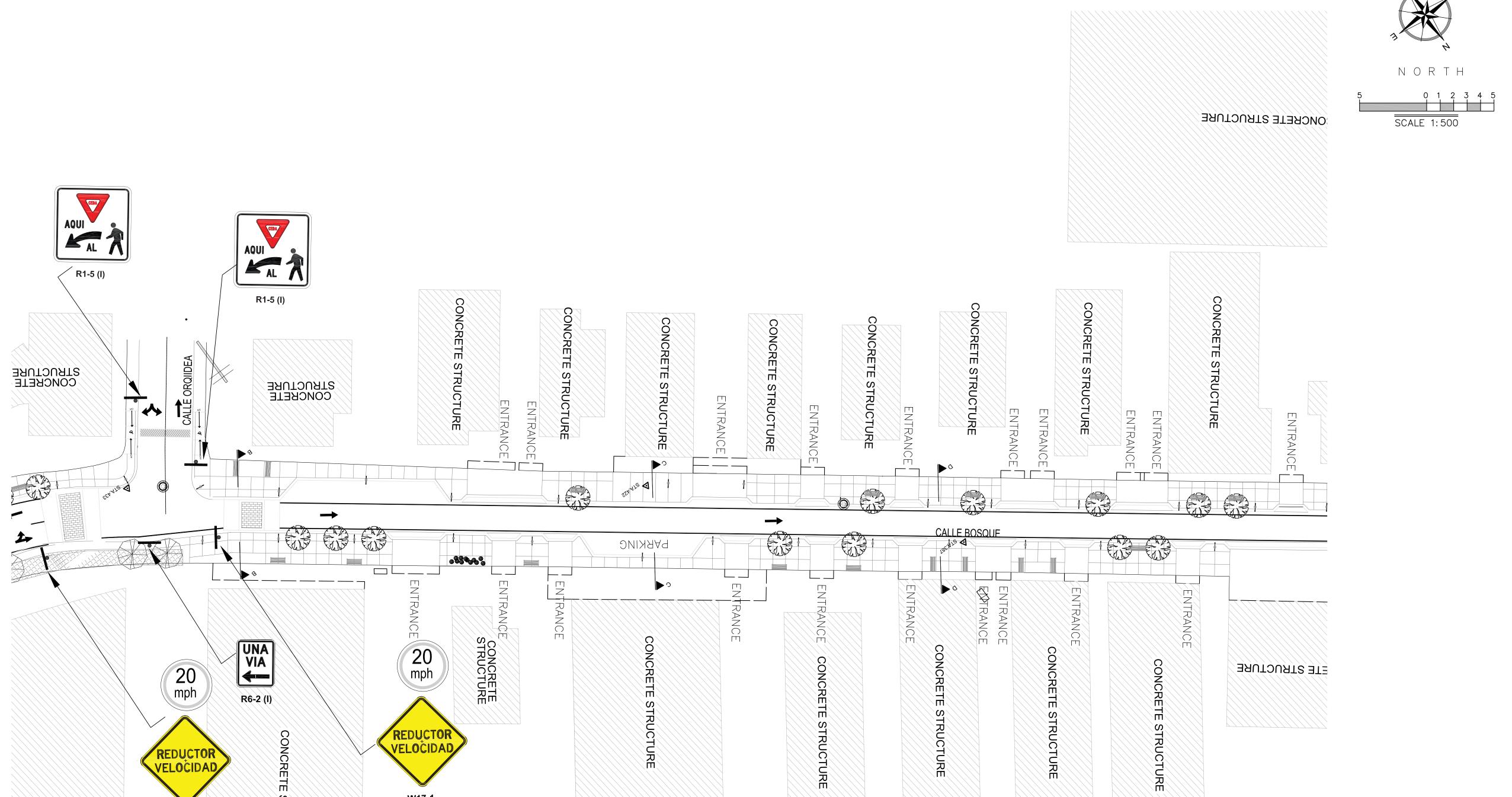
PROYECTO MEJORAS VIALES CALLE BOSQUE & CALLE LIC. RAMIREZ SILVA

PH ROAD SINGS

JUNE 2023

RS-1

R1-5 (I) CONCRETE STRUCTURE PARKING



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MANAGERS, ARCHITECTS, ENGINEERS AND PLANNERS

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AEG@aegroup-pr.c.

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ROAD SIGN AND DEMARCATION - 2

PROYECTO MEJORAS VIALES
CALLE BOSQUE & CALLE LIC.
RAMIREZ SILVA

PH ROAD SINGS

JUNE 2023

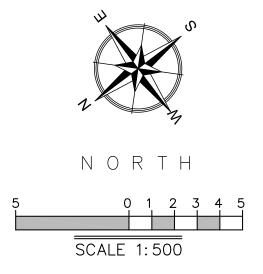
RS-2

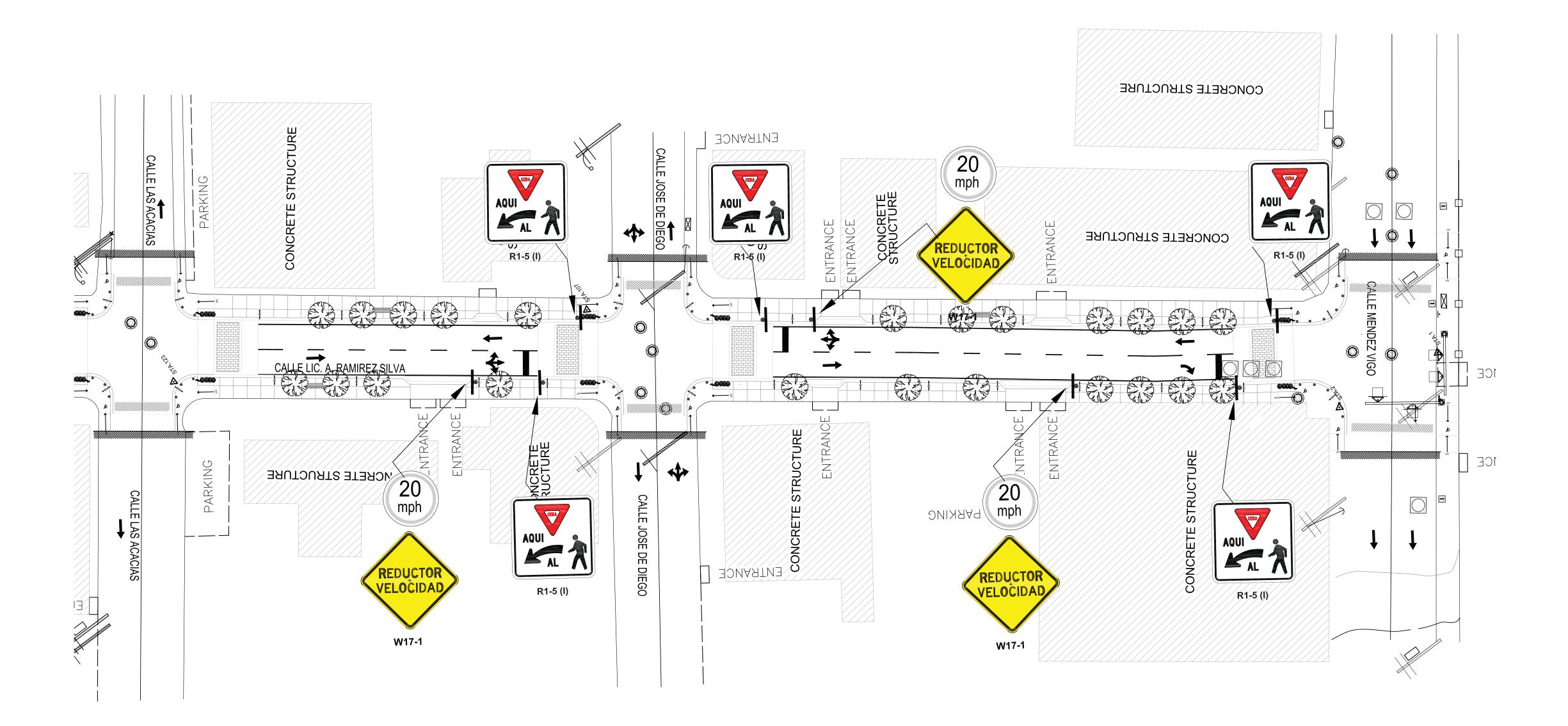
PROYECTO MEJORAS VIALES CALLE BOSQUE & CALLE LIC. RAMIREZ SILVA

ROAD SINGS

JUNE 2023

RS-3





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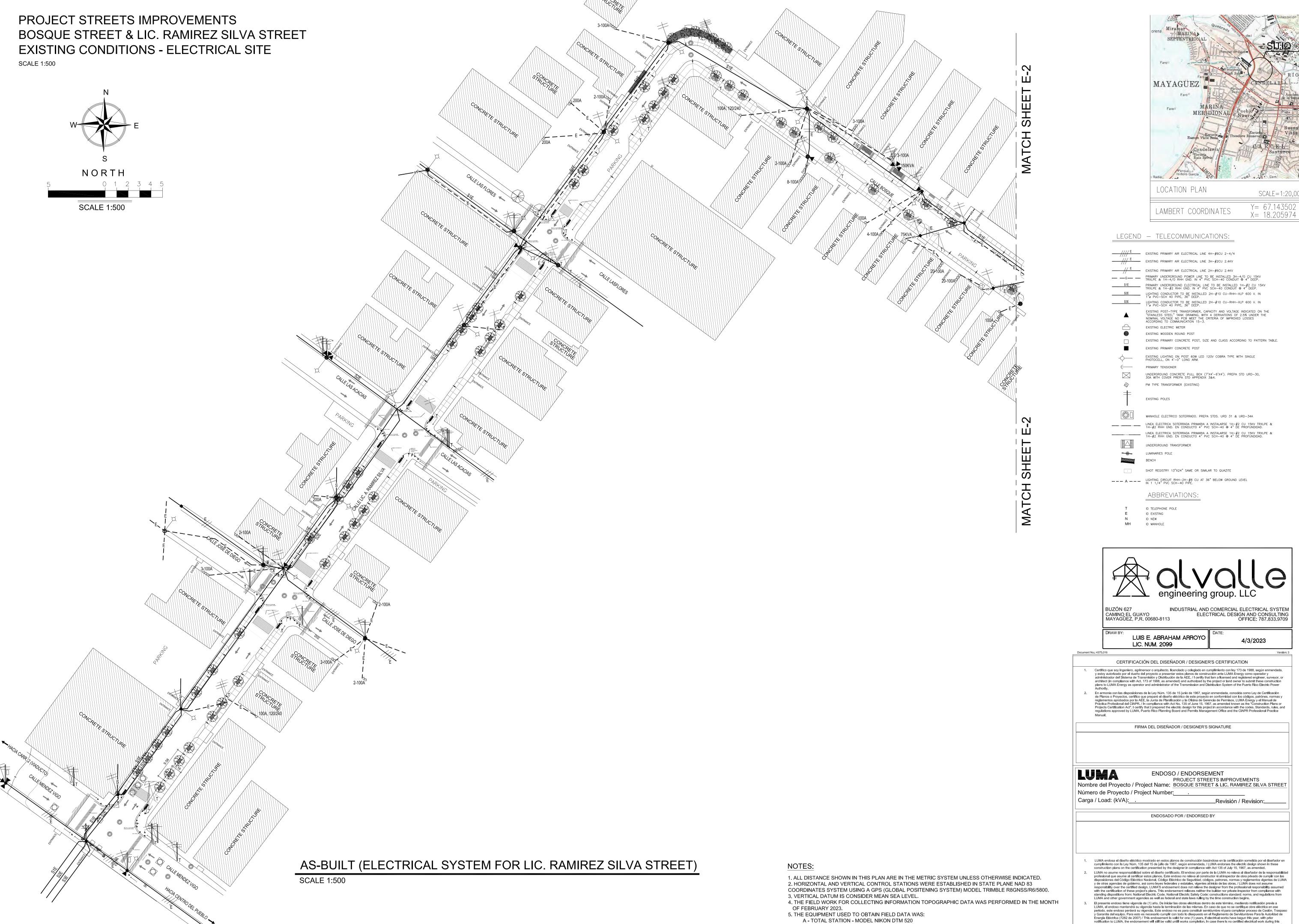
ROAD SIGN AND
DEMARCATION - 4

PROYECTO MEJORAS VIALES
CALLE BOSQUE & CALLE LIC.
RAMIREZ SILVA

PHASE ROAD SINGS

JUNE 2023

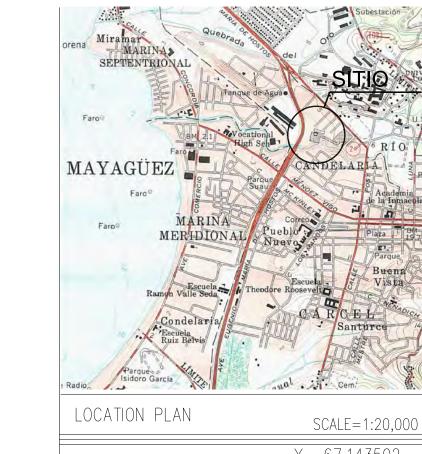
RS-4



B - DATA COLLECTOR NOMAD

D - PRISM, ROD AND COMPASS

C - STEEL TAPE



EXISTING PRIMARY CONCRETE POST, SIZE AND CLASS ACCORDING TO PATTERN TABLE.



INDUSTRIAL AND COMERCIAL ELECTRICAL SYSTEM ELECTRICAL DESIGN AND CONSULTING OFFICE: 787.833.9709

Certifico que soy ingeniero, agrimensor o arquitecto, licenciado y colegiado en cumplimiento con ley 173 de 1988, según enmendada, y estoy autorizado por el dueño del proyecto a presentar estos planos de construcción ante LUMA Energy como operador y administrador del Sistema de Transmisión y Distribución de la AEE. / I certify that I am a licensed and registered engineer, surveyor, or architect (in compliance with Act. 173 of 1988, as amended) and authorized by the project or land owner to submit these construction plans to LUMA Energy as operator and administrator of the Transmission and Distribution System of the Puerto Rico Electric Power Authority

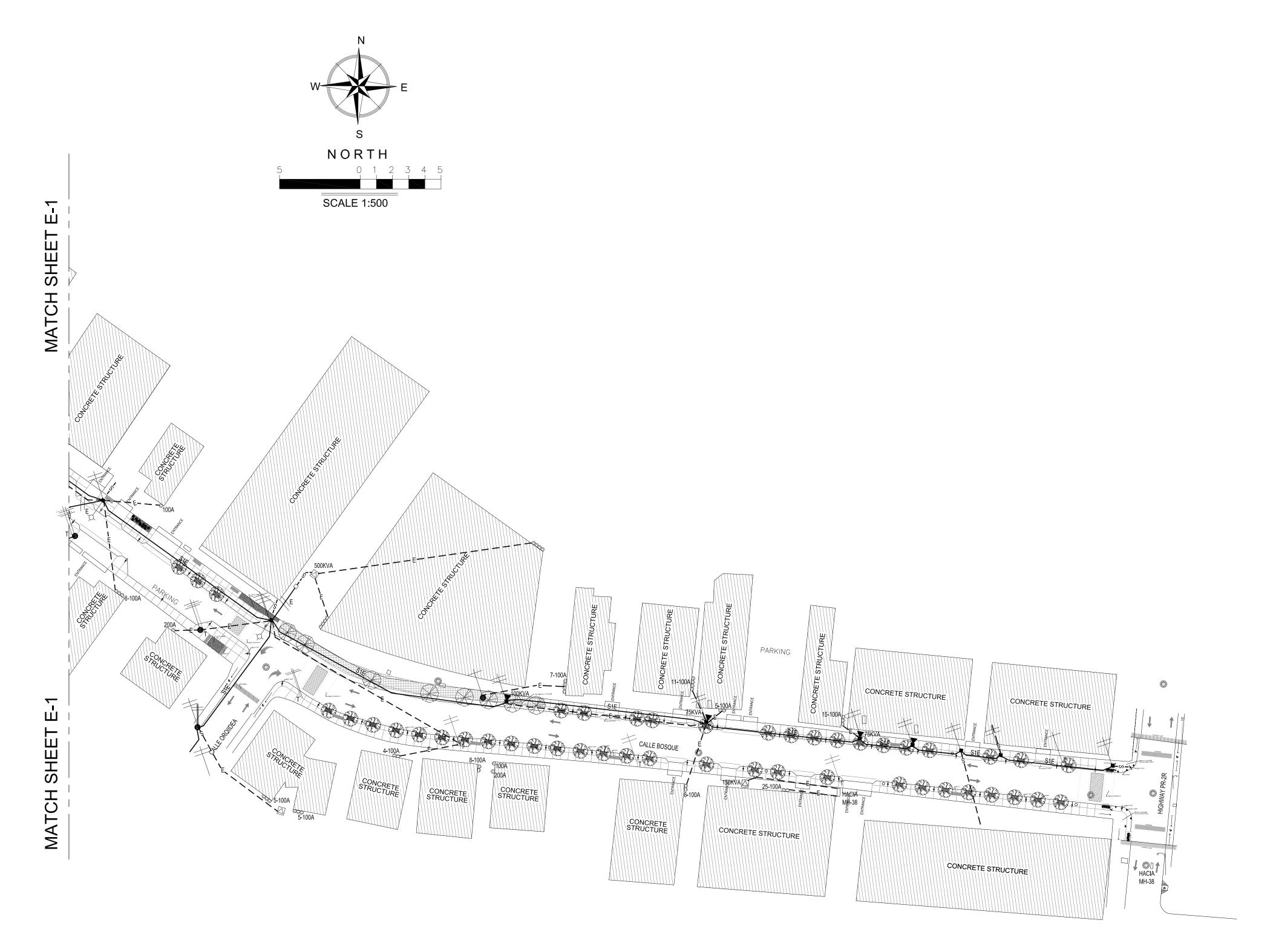
LUMA endosa el diseño eléctrico mostrado en estos planos de construcción basándose en la certificación sometida por el diseñador en cumplimiento con la Ley Núm. 135 del 15 de julio de 1967, según enmendada. / LUMA endorses the electric design shown in these construction plans on the certification presented by the designer in compliance with Act 135 of July 15, 1967, as amended.

LUMA no asume responsabilidad sobre el diseño certificado. El endoso por parte de la LUMA no releva al diseñador de la responsabilidad

El presente endoso tiene vigencia de (1) año. De iniciar las obras eléctricas dentro de este término, mediando notificación previa a El presente endoso tiene vigencia de (1) año. De iniciar las obras eléctricas dentro de este término, mediando notificación previa a LUMA, el endoso mantendrá su vigencia hasta la terminación de las mismas. En caso de que no se certifique obra eléctrica en ese periodo, este endoso perderá su vigencia. Este endoso no es para constituir servidumbre ni para completar proceso de Cesión, Traspaso y Garantia del equipo. Para esto es necesario cumplir con todo lo disepuesto en el Reglamento de Servidumbres Para la Autoridad de Energia Eléctrica (7282 de 2007) / This endosement is valid for one (1) years. If electrical works have begun this year, with prior notification to LUMA, the endorsement will still be valid untill works completion. In case there is no certified electrical work during this period, this endorsement will lose its validity. this endorsement is not to constitute an easement or to complete the Assignment, Transfer and Guarantee process of the equipment. For this, it is necesary to comply with all the provisions of the Easements Regulation for the Puerto Rico Electrical Power Authority (7282 of 2007).

CONSULTANT

AS-BUILT PLAN EXIST. COND.



AS-BUILT (ELECTRICAL SYSTEM FOR BOSQUE STREET)

SCALE 1:500

1. ALL DISTANCE SHOWN IN THIS PLAN ARE IN THE METRIC SYSTEM UNLESS OTHERWISE INDICATED. 2. HORIZONTAL AND VERTICAL CONTROL STATIONS WERE ESTABLISHED IN STATE PLANE NAD 83 COORDINATES SYSTEM USING A GPS (GLOBAL POSITENING SYSTEM) MODEL TRIMBLE R8GNSS/R6/5800.

3. VERTICAL DATUM IS CONSIDER MEAN SEA LEVEL. 4. THE FIELD WORK FOR COLLECTING INFORMATION TOPOGRAPHIC DATA WAS PERFORMED IN THE MONTH OF FEBRUARY 2023.

- 5. THE EQUIPMENT USED TO OBTAIN FIELD DATA WAS:
- A TOTAL STATION MODEL NIKON DTM 520 B - DATA COLLECTOR NOMAD
- C STEEL TAPE
- D PRISM, ROD AND COMPASS



Y= 67.143502 LAMBERT COORDINATES X= 18.205974

LEGEND - TELECOMMUNICATIONS:

_____/// E EXISTING PRIMARY AIR ELECTRICAL LINE 4H-#6CU 2-4/4 ________ EXISTING PRIMARY AIR ELECTRICAL LINE 3H-#2CU 2.4KV ________E EXISTING PRIMARY AIR ELECTRICAL LINE 2H-#6CU 2.4KV

— — E— PRIMARY UNDERGROUND POWER LINE TO BE INSTALLED 3H-4/0 CU 15KV TRXLPE & 1H-4/0 RHH GND. IN 4" PVC SCH-40 CONDUIT @ 4" DEEP. S1E PRIMARY UNDERGROUND ELECTRICAL LINE TO BE INSTALLED 1H-#2 CU 15K' TRXLPE & 1H-#2 RHH GND. IN 4" PVC SCH-40 CONDUIT @ 4" DEEP. SZE LIGHTING CONDUCTOR TO BE INSTALLED 2H-#10 CU-RHH-XLP 600 V. IN 1"0 PVC-SCH 40 PIPE, 36" DEEP. S3E LIGHTING CONDUCTOR TO BE INSTALLED 2H-#10 CU-RHH-XLP 600 V. IN 1"# PVC-SCH 40 PIPE, 36" DEEP.

EXISTING WOODEN ROUND POST

EXISTING PRIMARY CONCRETE POST, SIZE AND CLASS ACCORDING TO PATTERN TABLE. EXISTING LIGHTING ON POST 60W LED 120V COBRA TYPE WITH SINGLE PHOTOCELL, ON 4'-0" LONG ARM.

UNDERGROUND CONCRETE PULL BOX (7'X4'-6'X4'). PREPA STD URD-30, 30A WITH COVER PREPA STD APPENDIX 3&4.

PM TYPE TRANSFORMER (EXISTING)

MANHOLE ELECTRICO SOTERRADO. PREPA STDS. URD 31 & URD-34A

LINEA ELECTRICA SOTERRADA PRIMARIA A INSTALARSE 1H-#2 CU 15KV TRXLPE & 1H-#2 RHH GND. EN CONDUCTO 4" PVC SCH-40 @ 4" DE PROFUNDIDAD. LINEA ELECTRICA SOTERRADA PRIMARIA A INSTALARSE 1H-#2 CU 15KV TRXLPE & 1H-#2 RHH GND. EN CONDUCTO 4" PVC SCH-40 @ 4" DE PROFUNDIDAD.

SHOT REGISTRY 13"X24" SAME OR SIMILAR TO QUAZITE --- A --- LIGHTING CIRCUIT RHH-2H-#8 CU AT 36" BELOW GROUND LEVEL IN 1 1/4" PVC SCH-40 PIPE.

ID TELEPHONE POLE ID EXISTING



INDUSTRIAL AND COMERCIAL ELECTRICAL SYSTEM CAMINO EL GUAYO MAYAGÜEZ, P.R. 00680-8113 ELECTRICAL DESIGN AND CONSULTING OFFICE: 787.833.9709

LUIS E. ABRAHAM ARROYO LIC. NUM. 2099

CERTIFICACIÓN DEL DISEÑADOR / DESIGNER'S CERTIFICATION

1. Certifíco que soy ingeniero, agrimensor o arquitecto, licenciado y colegiado en cumplimiento con ley 173 de 1988, según enmendada, y estoy autorizado por el dueño del proyecto a presentar estos planos de construcción ante LUMA Energy como operador y administrador del Sistema de Transmisión y Distribución de la AEE. / I certify that Iam a licensed and registered engineer, surveyor, or architect (in compliance with Act. 173 of 1988, as amended) and authorized by the project or land owner to submit these construction plans to LUMA Energy as operator and administrator of the Transmission and Distribution System of the Puerto Rico Electric Power Authority.

En armonía con las disposiciones de la Ley Núm. 135 de 15 junio de 1967, según enmendada, conocida como Ley de Certificación de Planos o Proyectos, certifico que preparé el diseño eléctrico de este proyecto en conformidad con los códigos, patrónes, normas y reglamentos aprobados por la AEE, la Junta de Planificación y la Oficina de Gerencia de Permisos, LUMA Energy y el Manual de Práctica Profesional del CIAPR. / In compliance with Act No. 135 of June 15, 1967 as amended known as the "Construction Plans or Projects Certification Act", I certify that I prepared the electric design for this project in accordance with the codes. Standards, rules, and regulations approved by LUMA, Puerto Rico Planning Board and Permits Management Office and the CIAPR Professional Practice

FIRMA DEL DISEÑADOR / DESIGNER'S SIGNATURE

ENDOSO / ENDORSEMENT PROJECT STREETS IMPROVEMENTS Nombre del Proyecto / Project Name: BOSQUE STREET & LIC. RAMIREZ SILVA STREET Número de Proyecto / Project Number_

Carga / Load: (kVA):_

__Revisión / Revision___

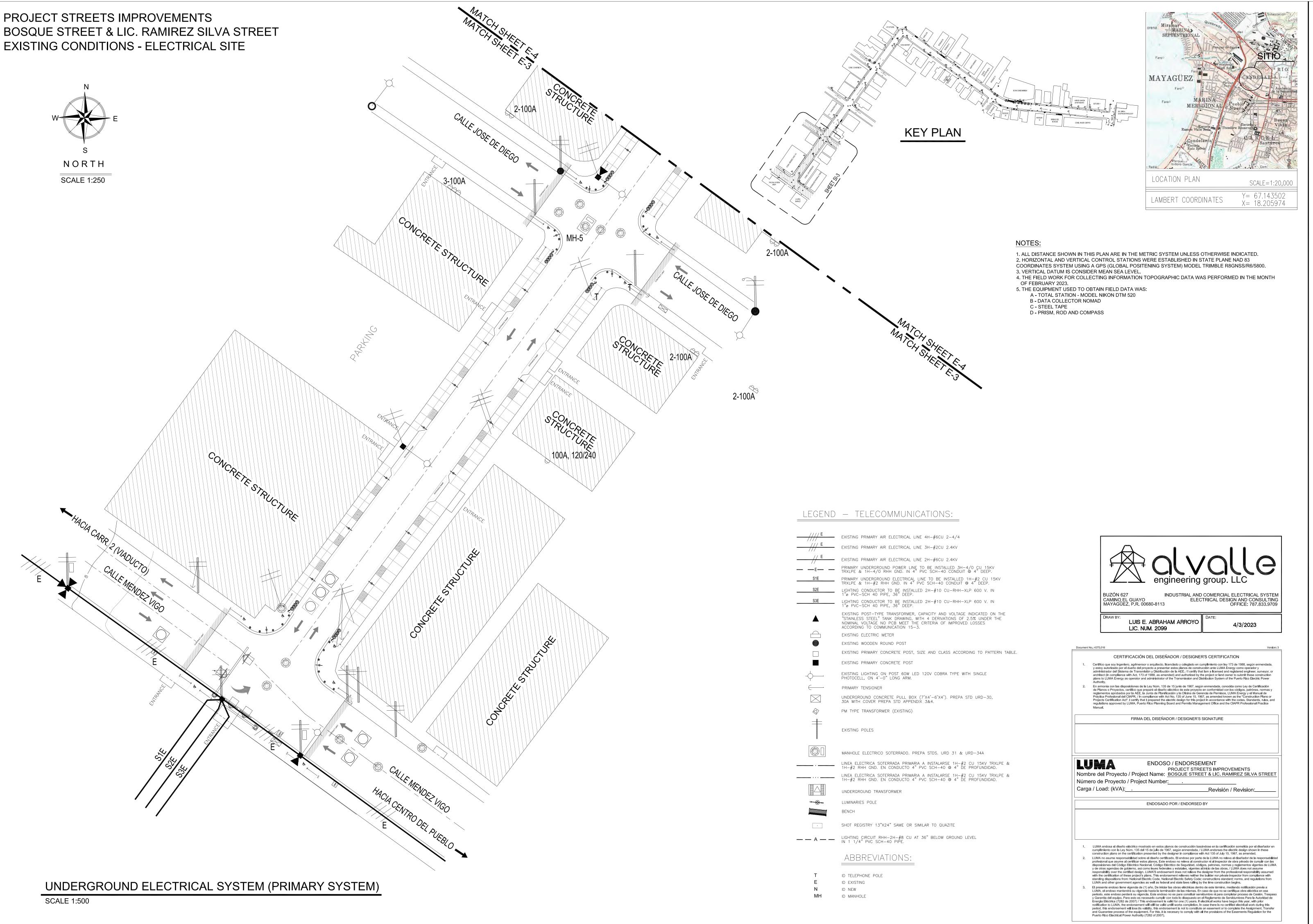
ENDOSADO POR / ENDORSED BY

- LUMA endosa el diseño eléctrico mostrado en estos planos de construcción basándose en la certificación sometida por el diseñador en cumplimiento con la Ley Núm. 135 del 15 de julio de 1967, según enmendada. / LUMA endorses the electric design shown in these construction plans on the certification presented by the designer in compliance with Act 135 of July 15, 1967, as amended. LUMA no asume responsabilidad sobre el diseño certificado. El endoso por parte de la LUMA no releva al diseñador de la responsabilidad LUMA no asume responsabilidad sobre el diseño certificado. El endoso por parte de la LUMA no releva al diseñador de la responsabilidad profesional que asume al certificar estos planos. Este endoso no releva al constructor ni al inspector de obra privado de cumplir con las disposiciones del Código Eléctrico Nacional, Código Eléctrico de Seguridad, códigos, patrones, normas y reglamentos vigentes de LUMA y de otras agencias de gobierno, así como leyes federales y estatales, vigentes al inicio de las obras. / LUMA does not assume responsibility over the certified design. LUMA's endosement does not refleve the designer from the professional responsibility assumed with the certification of these project's plans. This endorsement refleves neither the builder nor private inspector from compliance with standing dispositions from: National Electric Code, National Electric Safety Code; Safety Code; Safety Code; Safety Code; Safety Code; Safety Code; Code, National Electric Safety Code; estendard; norms, and regulations from LUMA and other government agencies as well as federal and state laws rulling by the time construction begins.
 El presente endoso tiene vigencia de (1) año. De iniciar las obras eléctricas dentro de este término, mediando notificación previa a LUMA el endose manuentás vigencia basta la terminación de las mismas. En caso de que no se certifique de plan eléctrica en ese.
- El presente endoso tiene vigencia de (1) año. De iniciar las obras eléctricas dentro de este término, mediando notificación previa a LUMA, el endoso mantendrá su vigencia hasta la terminación de las mismas. En caso de que no se certifique obra eléctrica en ese periodo, este endoso perderá su vigencia. Este endoso no es para constituir servidumbre ni para completar proceso de Cesión, Traspaso y Garantia del equipo. Para esto es necesario cumplir con todo lo disepuesto en el Reglamento de Servidumbres Para la Autoridad de Energia Eléctrica (7282 de 2007) / This endosement is valid for one (1) years. If electrical works have begun this year, with prior notification to LUMA, the endorsement will still be valid untill works completion. In case there is no certified electrical work during this period, this endorsement will lose its validity. this endorsement is not to constitute an easement or to complete the Assignment, Transfer and Guarantee process of the equipment. For this, it is necesary to comply with all the provisions of the Easements Regulation for the Puerto Rico Electrical Power Authority (7282 of 2007).

CONSULTANT

RAMIREZ

AS-BUILT PLAN EXIST. COND.



APPLIED ENGINEERING GR
MANAGERS, ARCHITECTS, ENGINEERS AND PLA
10 St. Montecarlo Avenue #866 Río Piedras, PR
P.O. Box 361298 San Juan, Puerto Rico 00936-1

APP]

MANAG

CONSULTATION

CON

| MAY 3, 2023 | 1 | JUN 30, 2023 | 2 | DATE | 3 | DATE | 4 | DATE | 6

REVISION
REVISION
REVISION
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UNDERGROUND
ELECTRICAL SYSTEI
SECTION 1

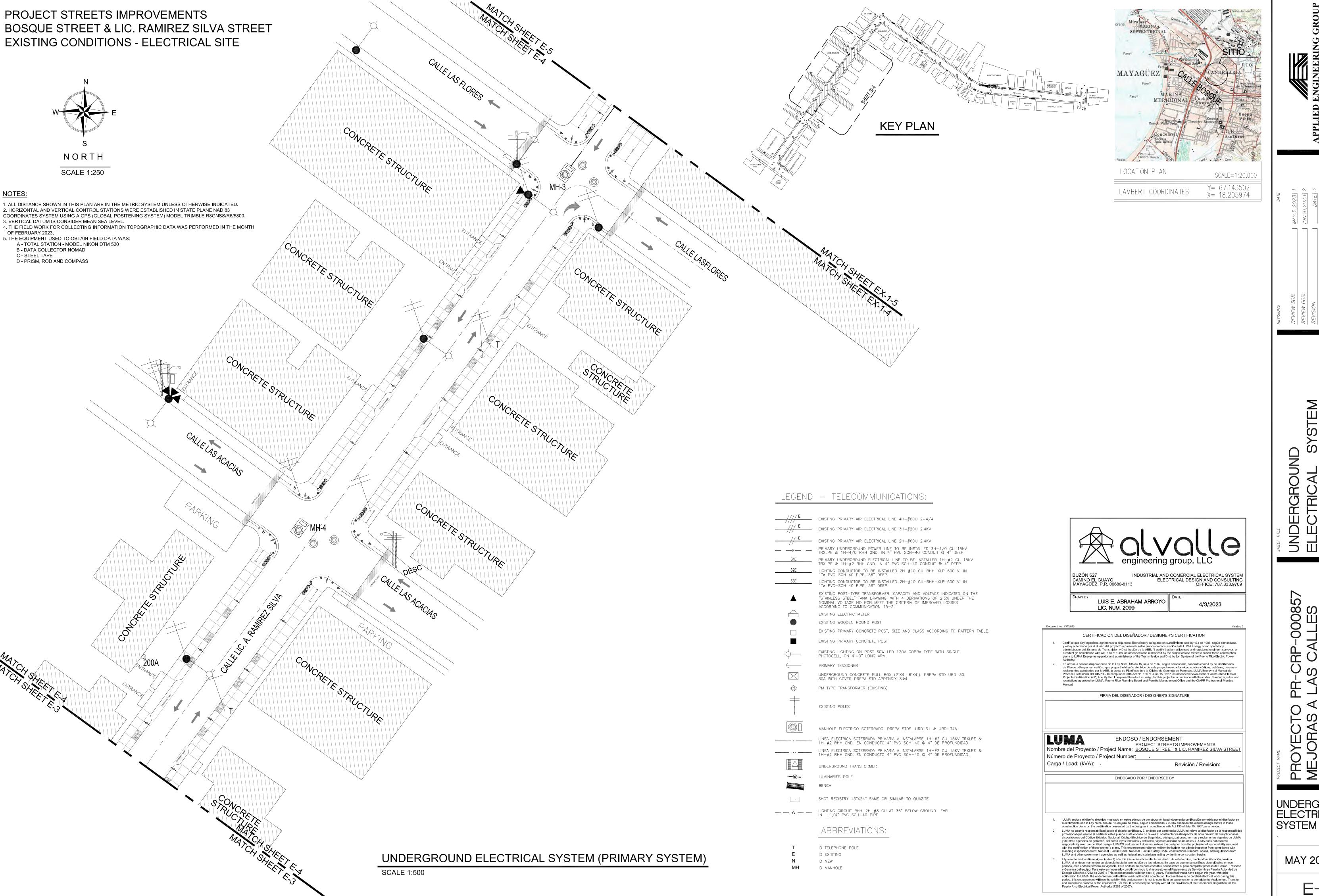
ECTO PR-CRP-00085/ DRAS A LAS CALLES DUE Y LIC. RAMIREZ SILVA

UNDERGROUND ELECTRICAL SYSTEM

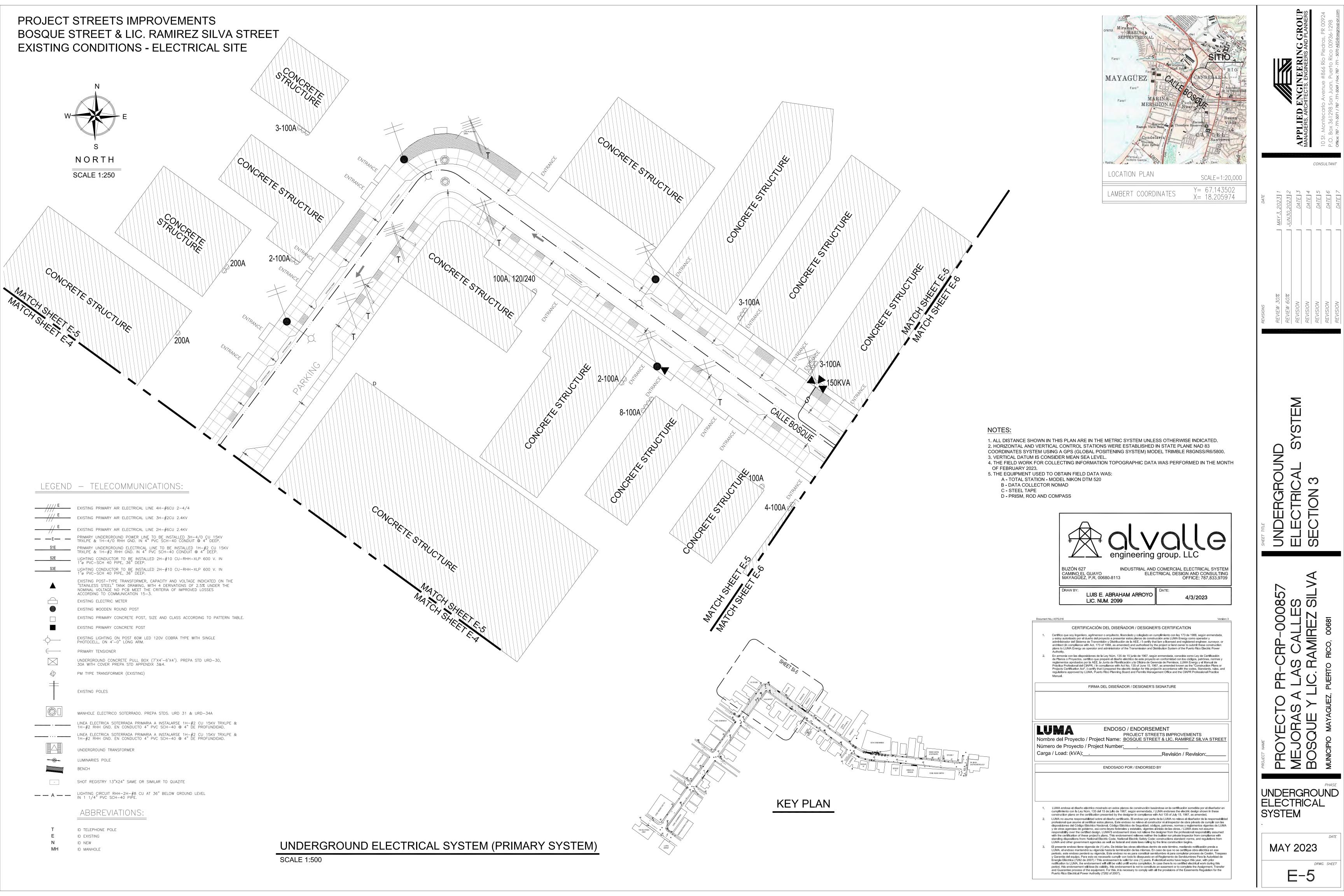
MAY 2023

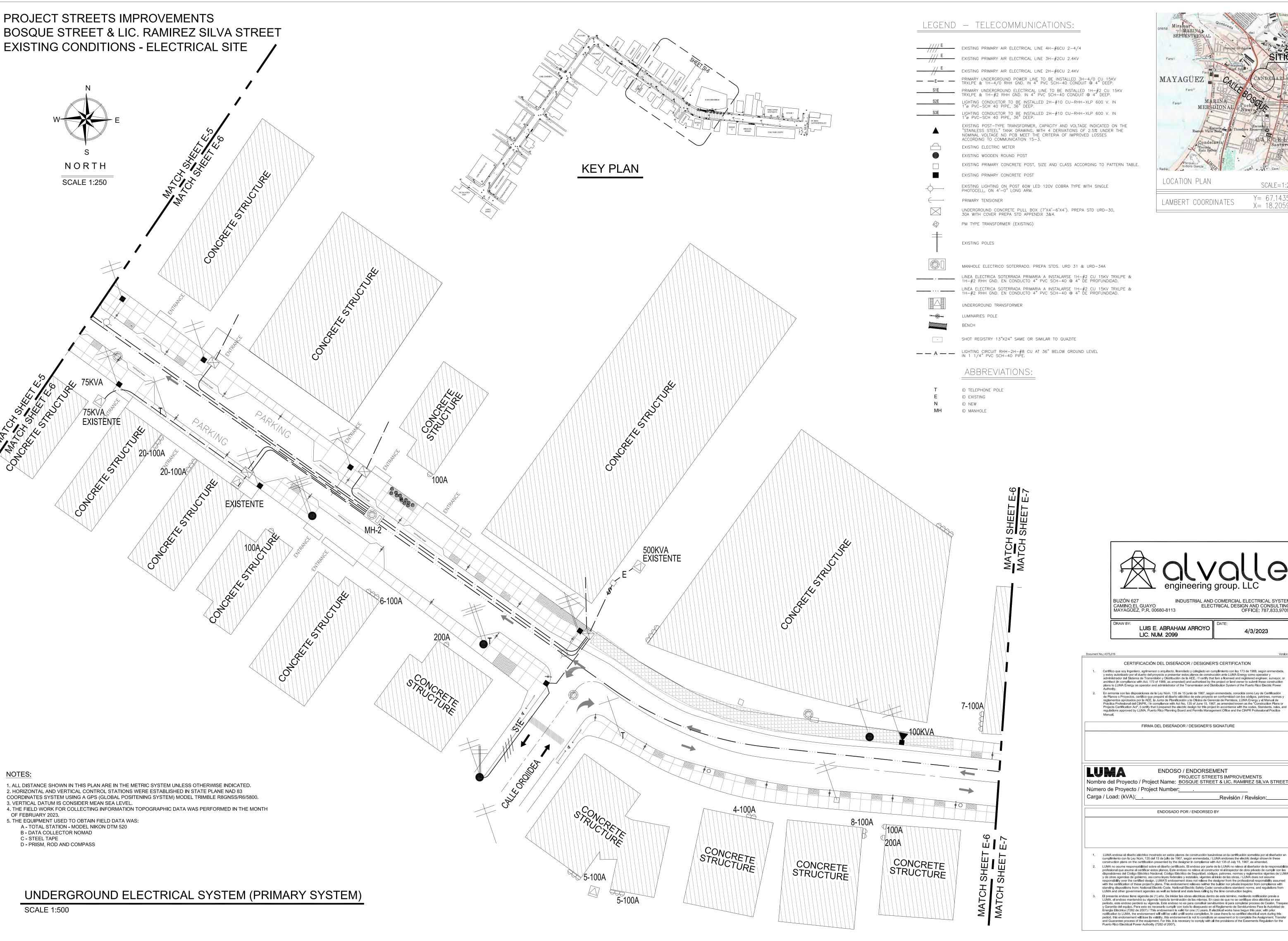
E-3

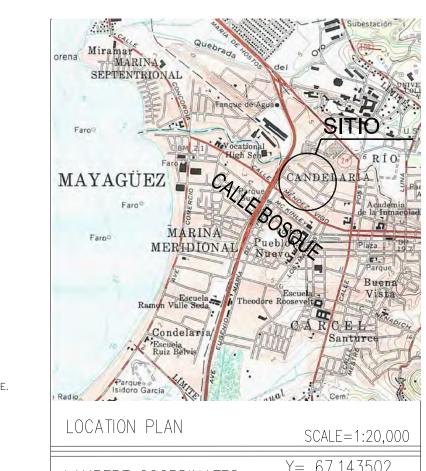
MAT 2023



UNDERGROUND ELECTRICAL







Y = 67.143502LAMBERT COORDINATES X= 18.205974

CONSULTANT

BUZÓN 627 CAMINO EL GUAYO MAYAGÜEZ, P.R. 00680-8113 INDUSTRIAL AND COMERCIAL ELECTRICAL SYSTEM
ELECTRICAL DESIGN AND CONSULTING
OFFICE: 787.833.9709 LUIS E. ABRAHAM ARROYO LIC. NUM. 2099

CERTIFICACIÓN DEL DISEÑADOR / DESIGNER'S CERTIFICATION Certifico que soy ingeniero, agrimensor o arquitecto, licenciado y colegiado en cumplimiento con ley 173 de 1988, según enmendada, y estoy autorizado por el dueño del proyecto a presentar estos planos de construcción ante LUMA Energy como operador y administrador del Sistema de Transmisión y Distribución de la AEE. / I certify that lam a licensed and registered engineer, surveyor, or architect (in compliance with Act. 173 of 1988, as amended) and authorized by the project or land owner to submit these construction plans to LUMA Energy as operator and administrator of the Transmission and Distribution System of the Puerto Rico Electric Power Authority. En armonía con las disposiciones de la Ley Núm. 135 de 15 junio de 1967, según enmendada, conocida como Ley de Certificación de Planos o Proyectos, certifico que preparé el diseño eléctrico de este proyecto en conformidad con los códigos, patrónes, normas y reglamentos aprobados por la AEE, la Junta de Planificación y la Oficina de Gerencia de Permisos, LUMA Energy y el Manual de Práctica Profesional del CIAPR. / In compliance with Act No. 135 of June 15, 1967, as amended known as the "Construction Plans or Projects Certification Act", I certify that I prepared the electric design for this project in accordance with the codes. Standards, rules, and regulations approved by LUMA, Puerto Rico Planning Board and Permits Management Office and the CIAPR Professional Practice FIRMA DEL DISEÑADOR / DESIGNER'S SIGNATURE **ENDOSO / ENDORSEMENT** PROJECT STREETS IMPROVEMENTS Nombre del Proyecto / Project Name: BOSQUE STREET & LIC. RAMIREZ SILVA STREET Número de Proyecto / Project Number: Carga / Load: (kVA):_ _Revisión / Revision:_ ENDOSADO POR / ENDORSED BY

LUMA endosa el diseño eléctrico mostrado en estos planos de construcción basándose en la certificación sometida por el diseñador er cumplimiento con la Ley Núm. 135 del 15 de julio de 1967, según enmendada. / LUMA endorses the electric design shown in these construction plans on the certification presented by the designer in compliance with Act 135 of July 15, 1967, as amended.

LUMA no asume responsabilidad sobre el diseño certificado. El endoso por parte de la LUMA no releva al diseñador de la responsabilidad To disposition of the sponsability over the certification of these project's plans. This endorsement relieves neither the builder nor private inspector for compliance with the certification of these project's plans. This endorsement relieves neither the builder nor private inspector from compliance with standing dispositions from: National Electric Code, National Electric Safety Code; constructions standard; norms, and regulations from LIMA and other covernment regions as well as federal and state laws critique over the project of the project.

MAY 2023

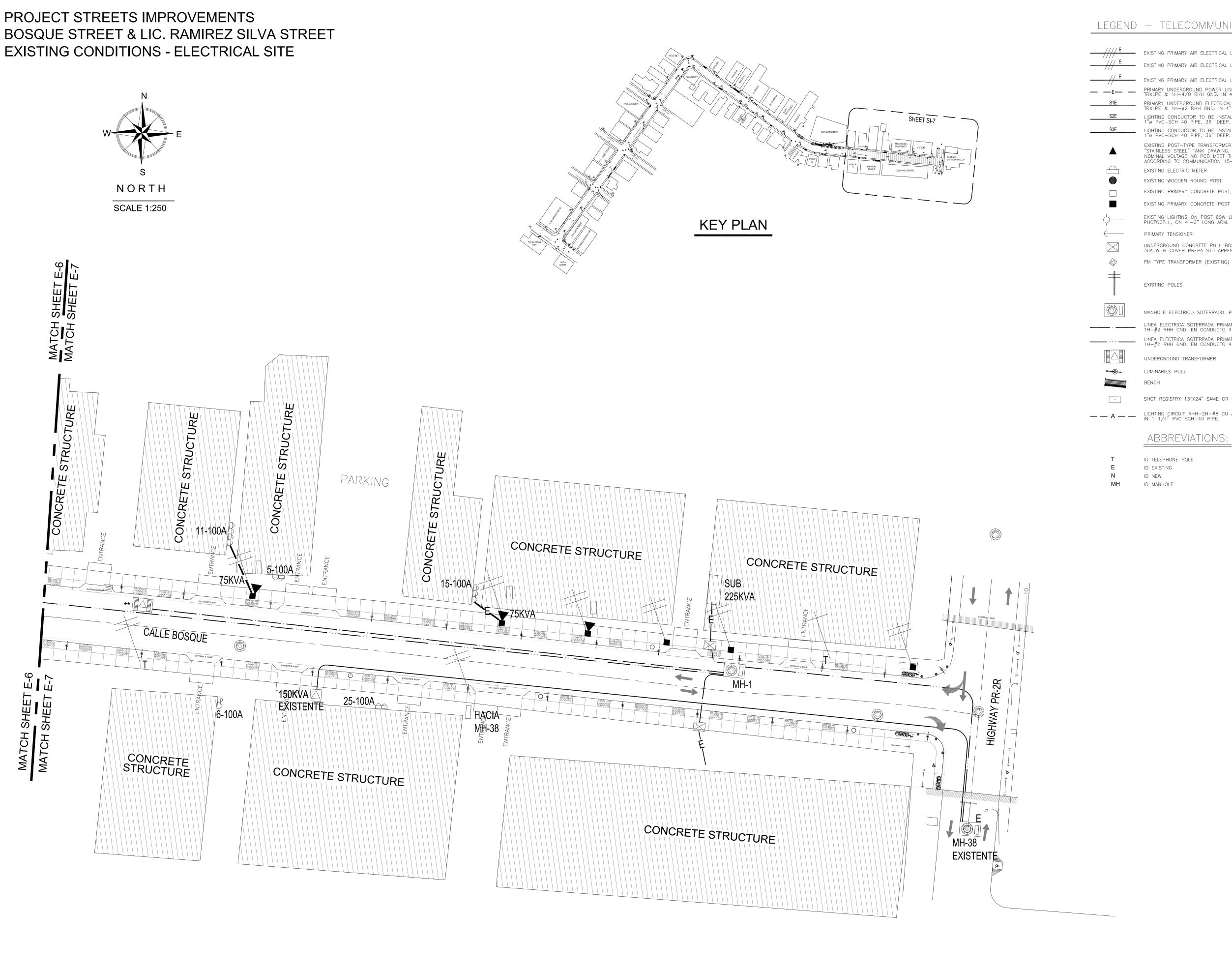
SYSTEM

UNDERGROU ELECTRICAL

-000857

AMIREZ

UNDERGROUND ELECTRICAL





EXISTING PRIMARY AIR ELECTRICAL LINE 4H-#6CU 2-4/4 - EXISTING PRIMARY AIR ELECTRICAL LINE 3H-#2CU 2.4KV EXISTING PRIMARY AIR ELECTRICAL LINE 2H-#6CU 2.4KV PRIMARY UNDERGROUND POWER LINE TO BE INSTALLED 3H-4/0 CU 15KV TRXLPE & 1H-4/0 RHH GND. IN 4" PVC SCH-40 CONDUIT @ 4" DEEP. PRIMARY UNDERGROUND ELECTRICAL LINE TO BE INSTALLED 1H-#2 CU 15KV TRXLPE & 1H-#2 RHH GND. IN 4" PVC SCH-40 CONDUIT @ 4" DEEP. LIGHTING CONDUCTOR TO BE INSTALLED 2H-#10 CU-RHH-XLP 600 V. IN 1"0 PVC-SCH 40 PIPE, 36" DEEP. LIGHTING CONDUCTOR TO BE INSTALLED 2H-#10 CU-RHH-XLP 600 V. IN 1"ø PVC-SCH 40 PIPE, 36" DEEP. EXISTING POST-TYPE TRANSFORMER, CAPACITY AND VOLTAGE INDICATED ON THE "STAINLESS STEEL" TANK DRAWING, WITH 4 DERIVATIONS OF 2.5% UNDER THE NOMINAL VOLTAGE NO PCB MEET THE CRITERIA OF IMPROVED LOSSES ACCORDING TO COMMUNICATION 15-3. EXISTING ELECTRIC METER EXISTING WOODEN ROUND POST EXISTING PRIMARY CONCRETE POST, SIZE AND CLASS ACCORDING TO PATTERN TABLE. EXISTING PRIMARY CONCRETE POST EXISTING LIGHTING ON POST 60W LED 120V COBRA TYPE WITH SINGLE PHOTOCELL, ON 4'-0" LONG ARM. UNDERGROUND CONCRETE PULL BOX (7'X4'-6'X4'). PREPA STD URD-30, 30A WITH COVER PREPA STD APPENDIX 3&4.

LOCATION PLAN SCALE=1:20,000

Y = 67.143502LAMBERT COORDINATES X= 18.205974 CONSULTANT

MANHOLE ELECTRICO SOTERRADO. PREPA STDS. URD 31 & URD-34A LINEA ELECTRICA SOTERRADA PRIMARIA A INSTALARSE 1H-#2 CU 15KV TRXLPE & 1H-#2 RHH GND. EN CONDUCTO 4" PVC SCH-40 @ 4" DE PROFUNDIDAD.

LINEA ELECTRICA SOTERRADA PRIMARIA A INSTALARSE 1H-#2 CU 15KV TRXLPE & 1H-#2 RHH GND. EN CONDUCTO 4" PVC SCH-40 @ 4" DE PROFUNDIDAD. UNDERGROUND TRANSFORMER

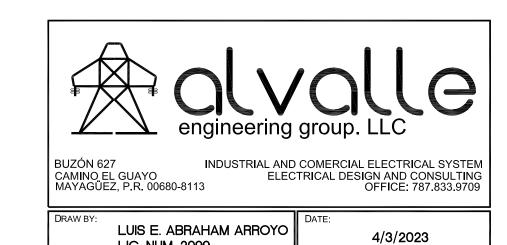
LUMINARIES POLE

SHOT REGISTRY 13"X24" SAME OR SIMILAR TO QUAZITE

— — A — — LIGHTING CIRCUIT RHH—2H—#8 CU AT 36" BELOW GROUND LEVEL IN 1 1/4" PVC SCH—40 PIPE.

ABBREVIATIONS:

ID TELEPHONE POLE ID EXISTING ID NEW ID MANHOLE



CERTIFICACIÓN DEL DISEÑADOR / DESIGNER'S CERTIFICATION 1. Certifico que soy ingeniero, agrimensor o arquitecto, licenciado y colegiado en cumplimiento con ley 173 de 1988, según enmendada y estoy autorizado por el dueño del proyecto a presentar estos planos de construcción ante LUMA Energy como operador y administrador del Sistema de Transmisión y Distribución de la AEE. / I certify that lam a licensed and registered engineer, surveyor, carchitect (in compliance with Act, 173 of 1988, as amended) and authorized by the project or fand owner to submit threse construction plans to LUMA Energy as operator and administrator of the Transmission and Distribution System of the Puerto Rico Bectric Power Authority. 2. En armonia con las disposiciones de la Ley Núm. 135 de 15 junto de 1967, según enmendada, conocida como Ley de Certificación de Planos o Proyectos, certifico que preparé el diseño eléctrico de este proyecto en conformidad con los dodiços, patrónes, normas reglamentos aprobados por las AEE, la Junta de Planificación y la Oficina de Gerencia de Permistos. LUMA Energy y il Manual de Projectos Certification Act. 1, Lertify that I prepared the electric design for this project in accordance with the codes, Standarda, rules, a regulations approved by LUMA, Puerto Rico Planning Board and Permits Management Office and the CIAPR Professional Practice Manual. FIRMA DEL DISEÑADOR / DESIGNER'S SIGNATURE ENDOSO / ENDORSEMENT PROJECT STREETS IMPROVEMENTS Nombre del Proyecto / Project Names: BOSQUE STREET & LIC. RAMIREZ SILVA STREI Número de Proyecto / Project Number: Carga / Load: (kVA): Revisión / Revision: ENDOSADO POR / ENDORSED BY		Į	LIC	. NUM. 2099		4/3/2023
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ENDOSO / ENDORSEMENT PROJECT STREETS IMPROVEMENTS Nombre del Proyecto / Project Name: BOSQUE STREET & LIC. RAMIREZ SILVA STRE Número de Proyecto / Project Number: Carga / Load: (kVA): Revisión / Revision:	2.	de Pla reglam Práctio Projec regula	nos o Proyectos, certifico o nentos aprobados por la AE ca Profesional del CIAPR. / ts Certification Act", I certifi tions approved by LUMA, F	que preparé el diseño eléctrico EE, la Junta de Planificación y / In compliance with Act No. 13 y that I prepared the electric de	de este proyecto la Oficina de Gero 5 of June 15, 196 esign for this proje	o en conformidad con los códigos, patrónes, normas encia de Permisos, LUMA Energy y el Manual de 67, as amended known as the "Construction Plans or ect in accordance with the codes, Standards, rules, a
Nombre del Proyecto / Project Name: BOSQUE STREET & LIC. RAMIREZ SILVA STREI Número de Proyecto / Project Number: Carga / Load: (kVA):Revisión / Revision:			FIRI	MA DEL DISEÑADOR / [DESIGNER'S	SIGNATURE
Nombre del Proyecto / Project Name: BOSQUE STREET & LIC. RAMIREZ SILVA STREI Número de Proyecto / Project Number: Carga / Load: (kVA):Revisión / Revision:						
Nombre del Proyecto / Project Name: BOSQUE STREET & LIC. RAMIREZ SILVA STREI Número de Proyecto / Project Number: Carga / Load: (kVA):Revisión / Revision:	7 7			ENDOSO / E	NDORSE	MENT
Carga / Load: (kVA):Revisión / Revision:				PRO	JECT STRE	EETS IMPROVEMENTS
Carga / Load: (kVA):Revisión / Revision:	Núme	ero de	Proyecto / Pro	ject Number		<u></u>
ENDOSADO POR / ENDORSED BY						
				ENDOSADO POR	/ ENDORSED	BY

LUMA endosa el diseño eléctrico mostrado en estos planos de construcción basándose en la certificación sometida por el diseñador er

cumplimiento con la Ley Núm. 135 del 15 de julio de 1967, según enmendada. / LUMA endorses the electric design shown in these construction plans on the certification presented by the designer in compliance with Act 135 of July 15, 1967, as amended. LUMA no asume responsabilidad sobre el diseño certificado. El endoso por parte de la LUMA no releva al diseñador de la responsabilidad

LUMA no asume responsabilidad sobre el diseño certificado. El endoso por parte de la LUMA no releva al diseñador de la responsabilidad profesional que asume al certificar estos planos. Este endoso no releva al constructor ni al inspector de obra privado de cumplir con las disposiciones del Código Eléctrico Nacional, Código Eléctrico de Seguridad, códigos, patrones, normas y reglamentos vigentes de LUMA y de otras agencias de gobierno, así como leyes federales y estatales, vigentes al inicio de las obras. / LUMA does not assume responsibility over the certified design. LUMA'S endosement does not relieve the designer from the professional responsibility assumed with the certification of these project's plans. This endorsement relieves neither the builder nor private inspector from compliance with standing dispositions from: National Electric Code, National Electric Safety Code; constructions standard; norms, and regulations from LUMA and other government agencies as well as federal and state laws rulling by the time construction begins.

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NOTES:

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4. THE FIELD WORK FOR COLLECTING INFORMATION TOPOGRAPHIC DATA WAS PERFORMED IN THE MONTH OF FEBRUARY 2023.

5. THE EQUIPMENT USED TO OBTAIN FIELD DATA WAS: A - TOTAL STATION - MODEL NIKON DTM 520

B - DATA COLLECTOR NOMAD

C - STEEL TAPE

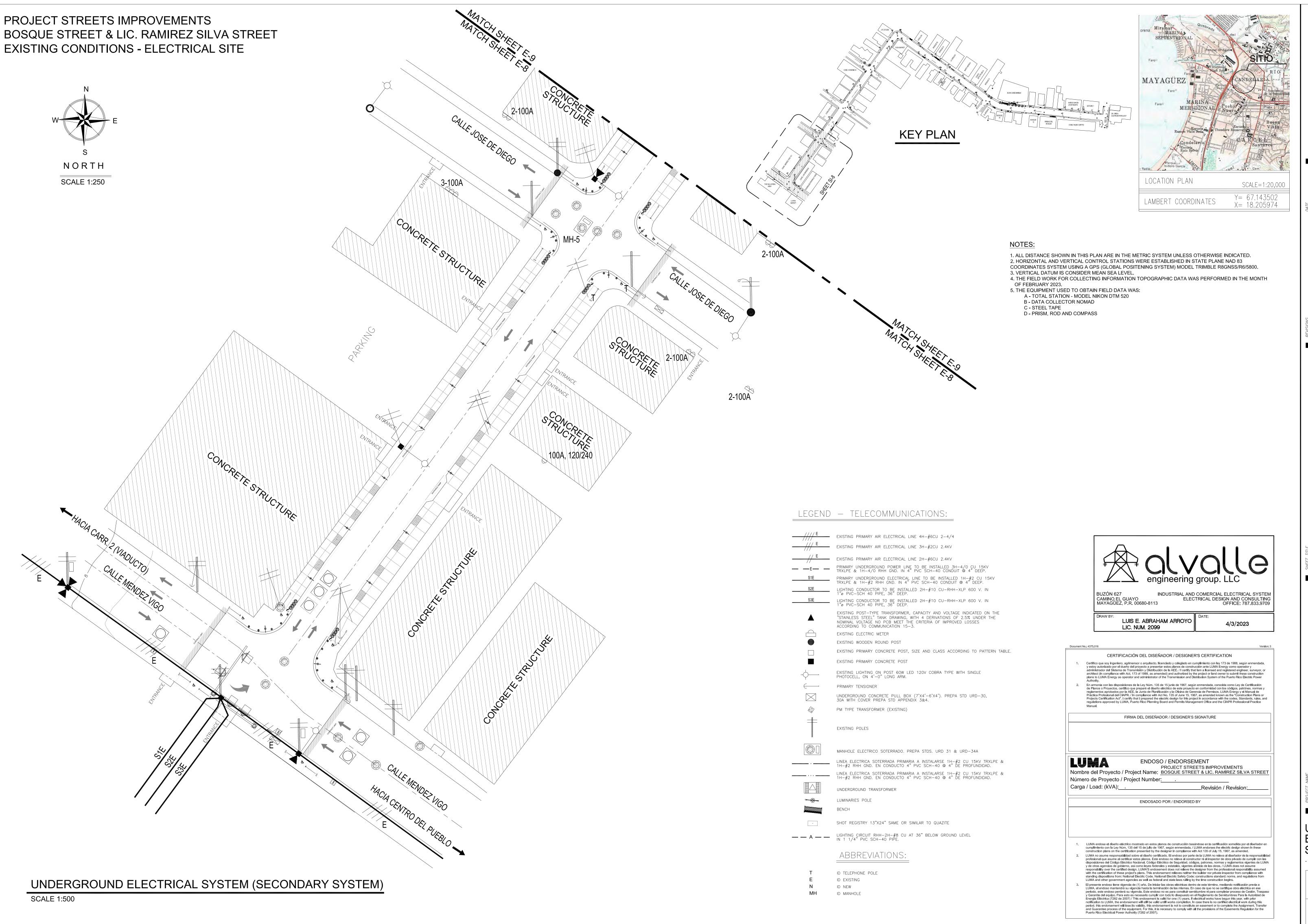
D - PRISM, ROD AND COMPASS

MAY 2023

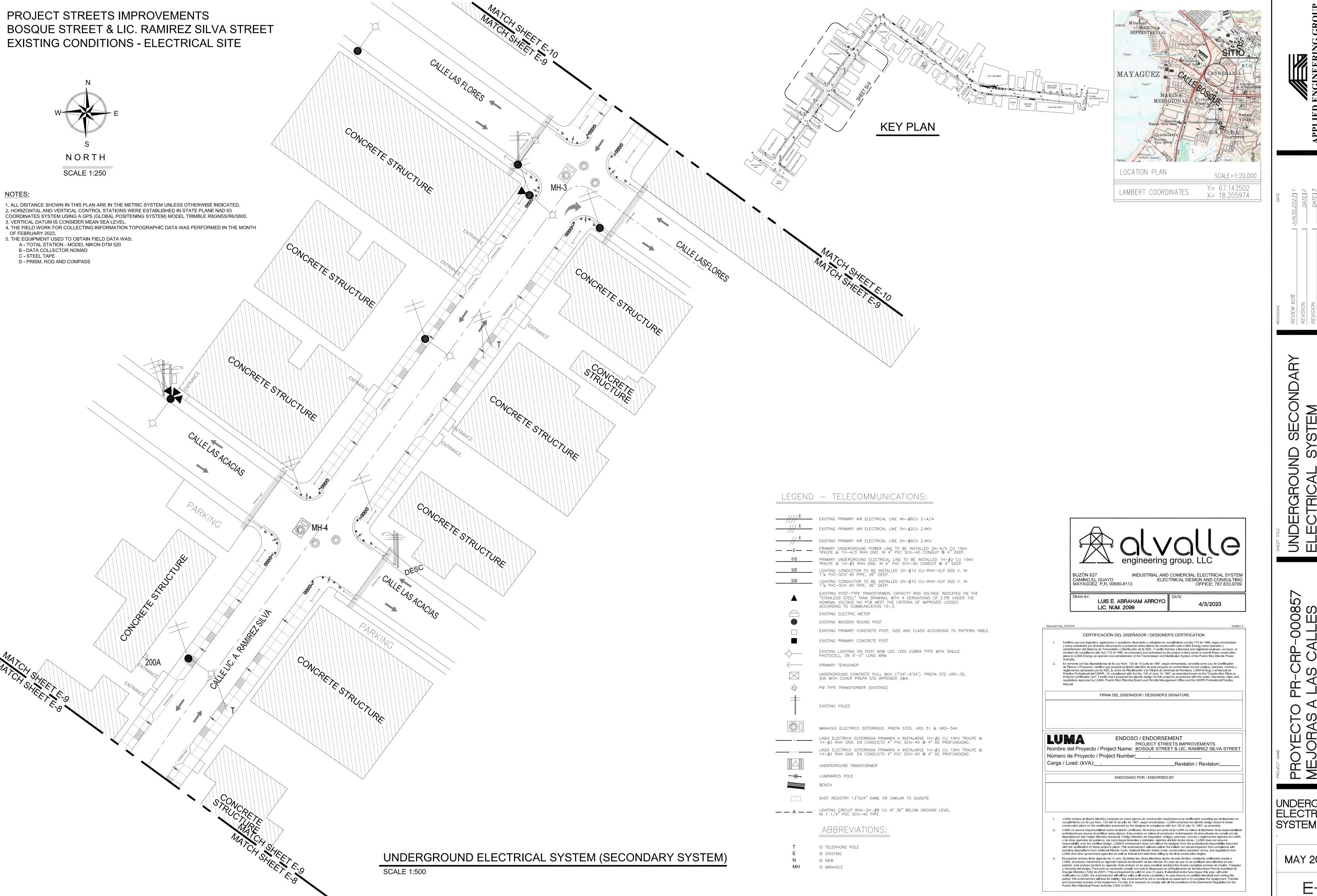
UNDERGROUND ELECTRICAL

SYSTEM

UNDERGROU ELECTRICAL SECTION 5

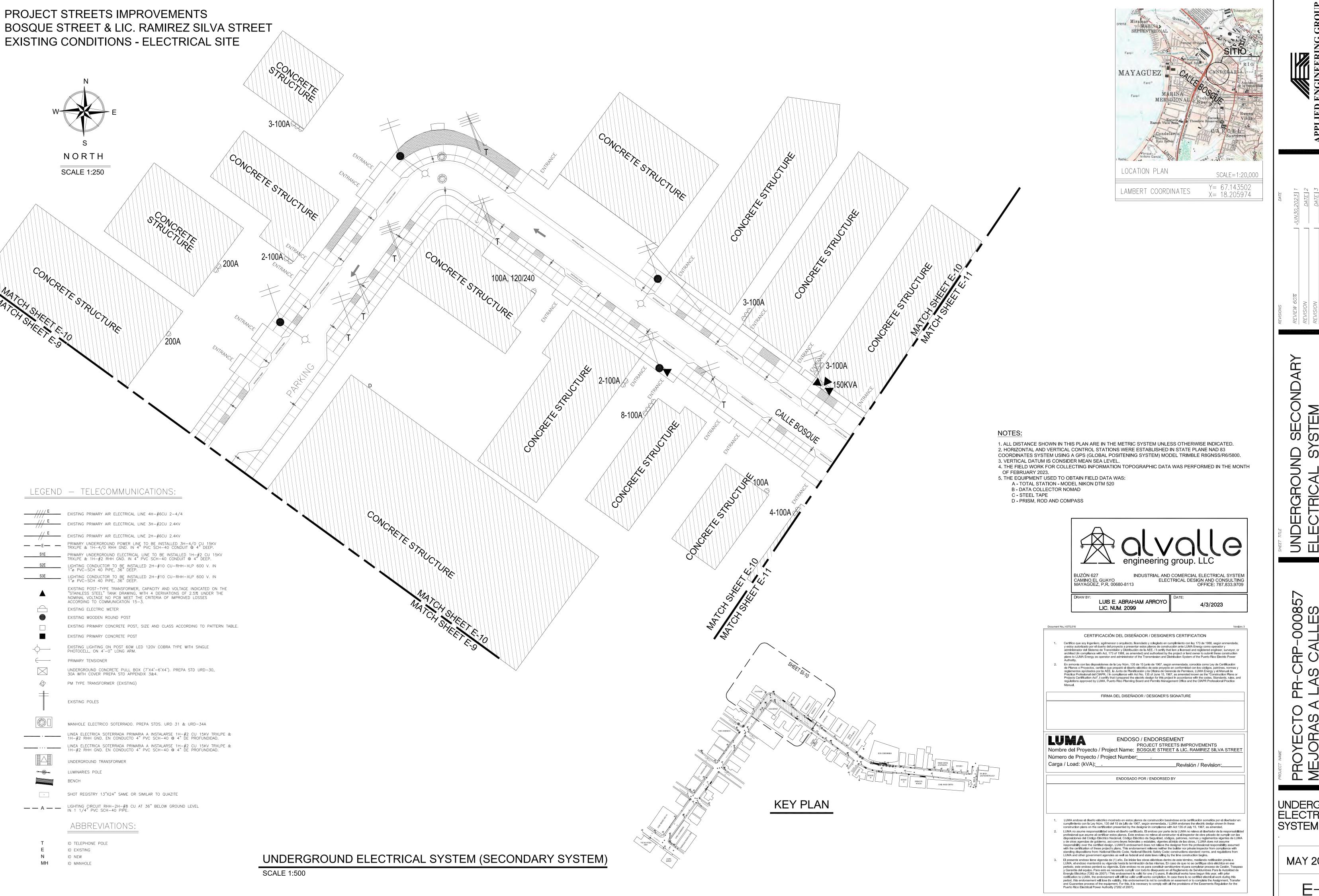


UNDERGROUND ELECTRICAL SYSTEM

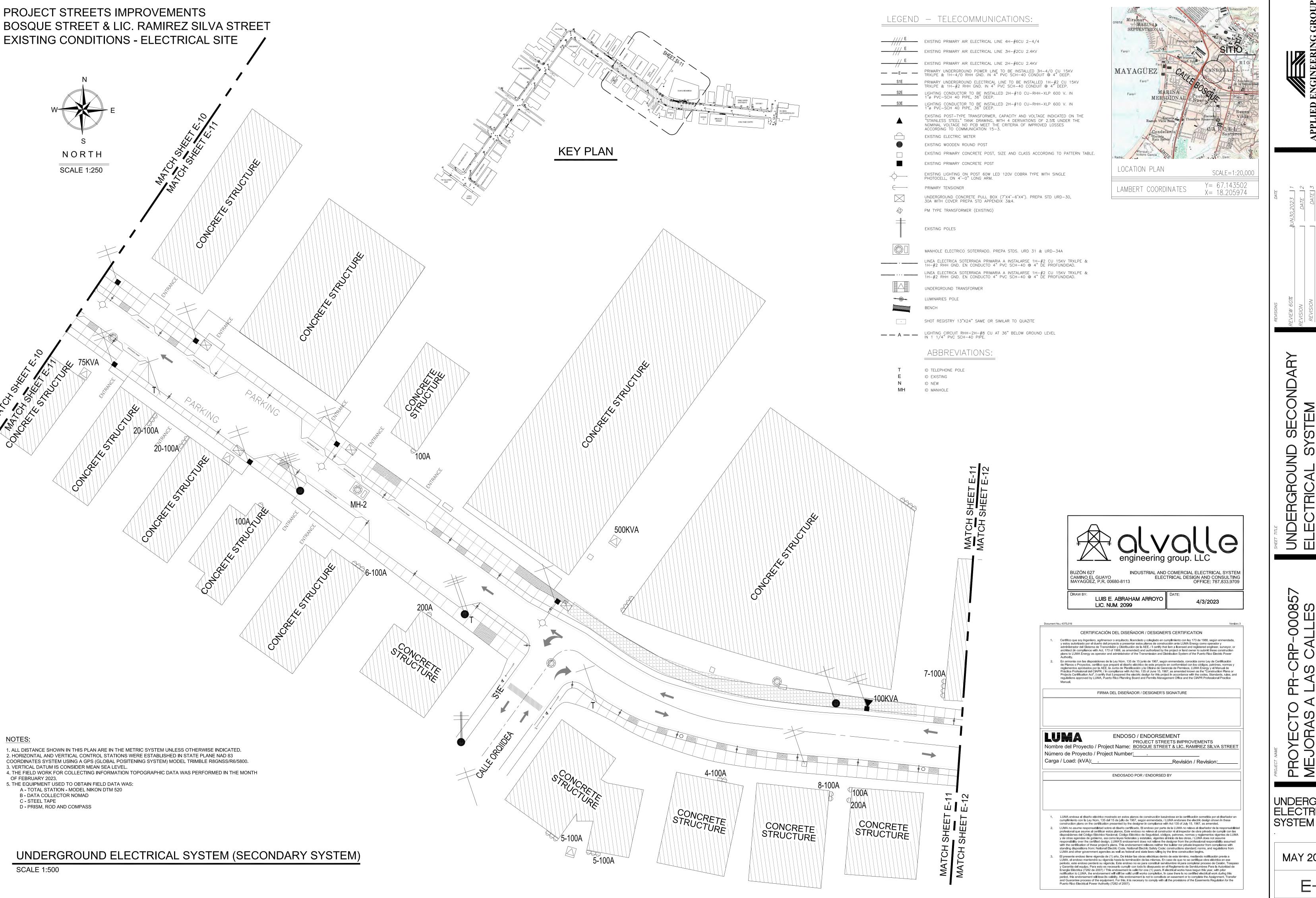


-000857 LLES

UNDERGROUND ELECTRICAL



UNDERGROUND ELECTRICAL

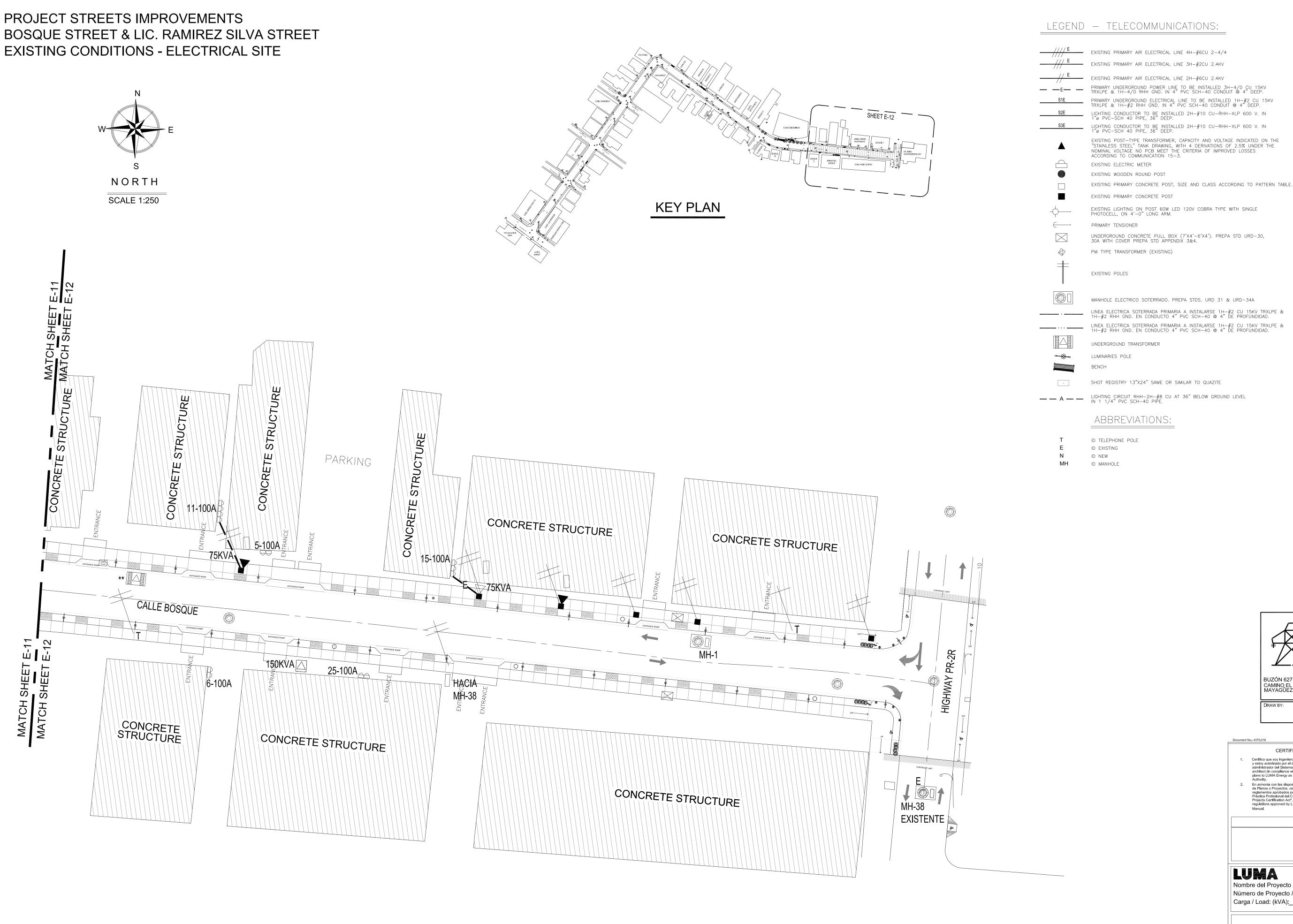


CONSULTANT

UNDERGROU ELECTRICAL

-000857 MIREZ

UNDERGROUND ELECTRICAL



LEGEND - TELECOMMUNICATIONS:

EXISTING PRIMARY AIR ELECTRICAL LINE 4H-#6CU 2-4/4 - EXISTING PRIMARY AIR ELECTRICAL LINE 3H-#2CU 2.4KV EXISTING PRIMARY AIR ELECTRICAL LINE 2H-#6CU 2.4KV PRIMARY UNDERGROUND POWER LINE TO BE INSTALLED 3H-4/0 CU 15KV TRXLPE & 1H-4/0 RHH GND. IN 4" PVC SCH-40 CONDUIT @ 4" DEEP.

PRIMARY UNDERGROUND ELECTRICAL LINE TO BE INSTALLED 1H-#2 CU 15KV TRXLPE & 1H-#2 RHH GND. IN 4" PVC SCH-40 CONDUIT @ 4" DEEP. LIGHTING CONDUCTOR TO BE INSTALLED 2H-#10 CU-RHH-XLP 600 V. IN 1"ø PVC-SCH 40 PIPE, 36" DEEP. LIGHTING CONDUCTOR TO BE INSTALLED 2H-#10 CU-RHH-XLP 600 V. IN 1"0 PVC-SCH 40 PIPE, 36" DEEP. EXISTING POST—TYPE TRANSFORMER, CAPACITY AND VOLTAGE INDICATED ON THE "STAINLESS STEEL" TANK DRAWING, WITH 4 DERIVATIONS OF 2.5% UNDER THE

NOMINAL VOLTAGE NO PCB MEET THE CRITERIA OF IMPROVED LOSSES ACCORDING TO COMMUNICATION 15—3. EXISTING ELECTRIC METER

EXISTING WOODEN ROUND POST

EXISTING PRIMARY CONCRETE POST EXISTING LIGHTING ON POST 60W LED 120V COBRA TYPE WITH SINGLE PHOTOCELL, ON 4'-0" LONG ARM.

UNDERGROUND CONCRETE PULL BOX (7'X4'-6'X4'). PREPA STD URD-30, 30A WITH COVER PREPA STD APPENDIX 3&4.

EXISTING POLES

MANHOLE ELECTRICO SOTERRADO. PREPA STDS. URD 31 & URD-34A

LINEA ELECTRICA SOTERRADA PRIMARIA A INSTALARSE 1H-#2 CU 15KV TRXLPE & 1H-#2 RHH GND. EN CONDUCTO 4" PVC SCH-40 @ 4" DE PROFUNDIDAD. LINEA ELECTRICA SOTERRADA PRIMARIA A INSTALARSE 1H-#2 CU 15KV TRXLPE & 1H-#2 RHH GND. EN CONDUCTO 4" PVC SCH-40 @ 4" DE PROFUNDIDAD.

UNDERGROUND TRANSFORMER LUMINARIES POLE

SHOT REGISTRY 13"X24" SAME OR SIMILAR TO QUAZITE

— — A — — LIGHTING CIRCUIT RHH—2H—#8 CU AT 36" BELOW GROUND LEVEL IN 1 1/4" PVC SCH—40 PIPE.

ABBREVIATIONS:

ID TELEPHONE POLE ID EXISTING ID NEW ID MANHOLE

LOCATION PLAN SCALE=1:20,000 Y = 67.143502LAMBERT COORDINATES

INDUSTRIAL AND COMERCIAL ELECTRICAL SYSTEM
ELECTRICAL DESIGN AND CONSULTING
OFFICE: 787.833.9709 BUZÓN 627 CAMINO EL GUAYO MAYAGÜEZ, P.R. 00680-8113 LUIS E. ABRAHAM ARROYO

4/3/2023

CERTIFICACIÓN DEL DISEÑADOR / DESIGNER'S CERTIFICATION Certifíco que soy ingeniero, agrimensor o arquitecto, licenciado y colegiado en cumplimiento con ley 173 de 1988, según enmendada, y estoy autorizado por el dueño del proyecto a presentar estos planos de construcción ante LUMA Energy como operador y administrador del Sistema de Transmisión y Distribución de la AEE. / I certify that lam a licensed and registered engineer, surveyor, or architect (in compliance with Act. 173 of 1988, as amended) and authorized by the project or land owner to submit these construction plans to LUMA Energy as operator and administrator of the Transmission and Distribution System of the Puerto Rico Electric Power Authority. En armonía con las disposiciones de la Ley Núm. 135 de 15 junio de 1967, según enmendada, conocida como Ley de Certificación En armonia con las disposiciones de la Ley Num. 135 de 15 junio de 1967, segun enmendada, conocida como Ley de Certificación de Planos o Proyectos, certifico que preparé el diseño eléctrico de este proyecto en conformidad con los códigos, patrónes, normas y reglamentos aprobados por la AEE, la Junta de Planificación y la Oficina de Gerencia de Permisos, LUMA Energy y el Manual de Práctica Profesional del CIAPR. / In compliance with Act No. 135 of June 15, 1967, as amended known as the "Construction Plans or Projects Certification Act", I certify that I prepared the electric design for this project in accordance with the codes. Standards, rules, and regulations approved by LUMA, Puerto Rico Planning Board and Permits Management Office and the CIAPR Professional Practice Manual. FIRMA DEL DISEÑADOR / DESIGNER'S SIGNATURE **ENDOSO / ENDORSEMENT** PROJECT STREETS IMPROVEMENTS Nombre del Proyecto / Project Name: BOSQUE STREET & LIC. RAMIREZ SILVA STREET Número de Proyecto / Project Number: Carga / Load: (kVA):_ _Revisión / Revision:_ ENDOSADO POR / ENDORSED BY

LIC. NUM. 2099

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OF FEBRUARY 2023. 5. THE EQUIPMENT USED TO OBTAIN FIELD DATA WAS:

A - TOTAL STATION - MODEL NIKON DTM 520 B - DATA COLLECTOR NOMAD

C - STEEL TAPE D - PRISM, ROD AND COMPASS

UNDERGROUND ELECTRICAL SYSTEM (SECONDARY SYSTEM)

MAY 2023

UNDERGROUND ELECTRICAL

SYSTEM

UNDERGROU ELECTRICAL SECTION 5

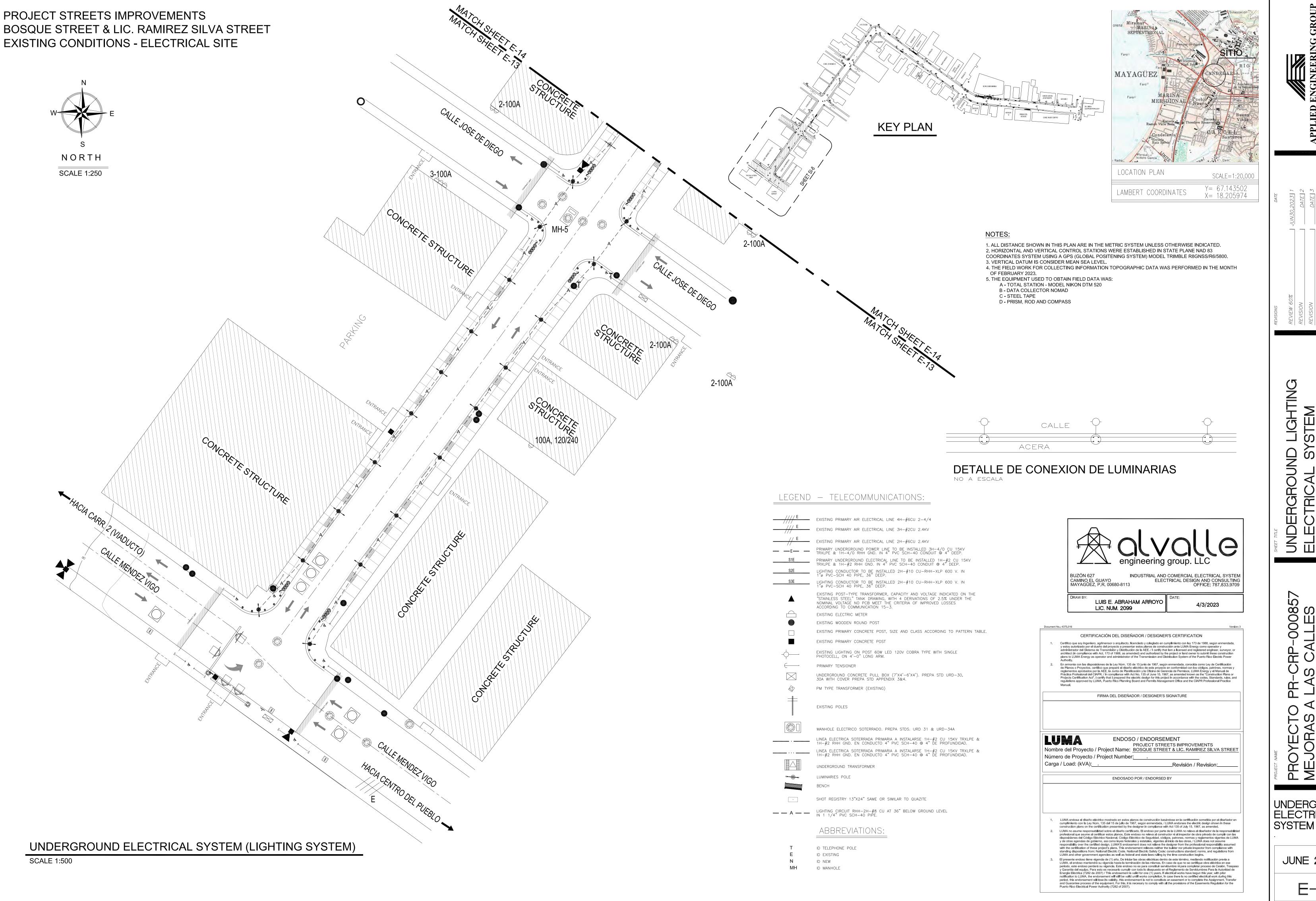
-000857 LLES

RAMIREZ

SCALE 1:500

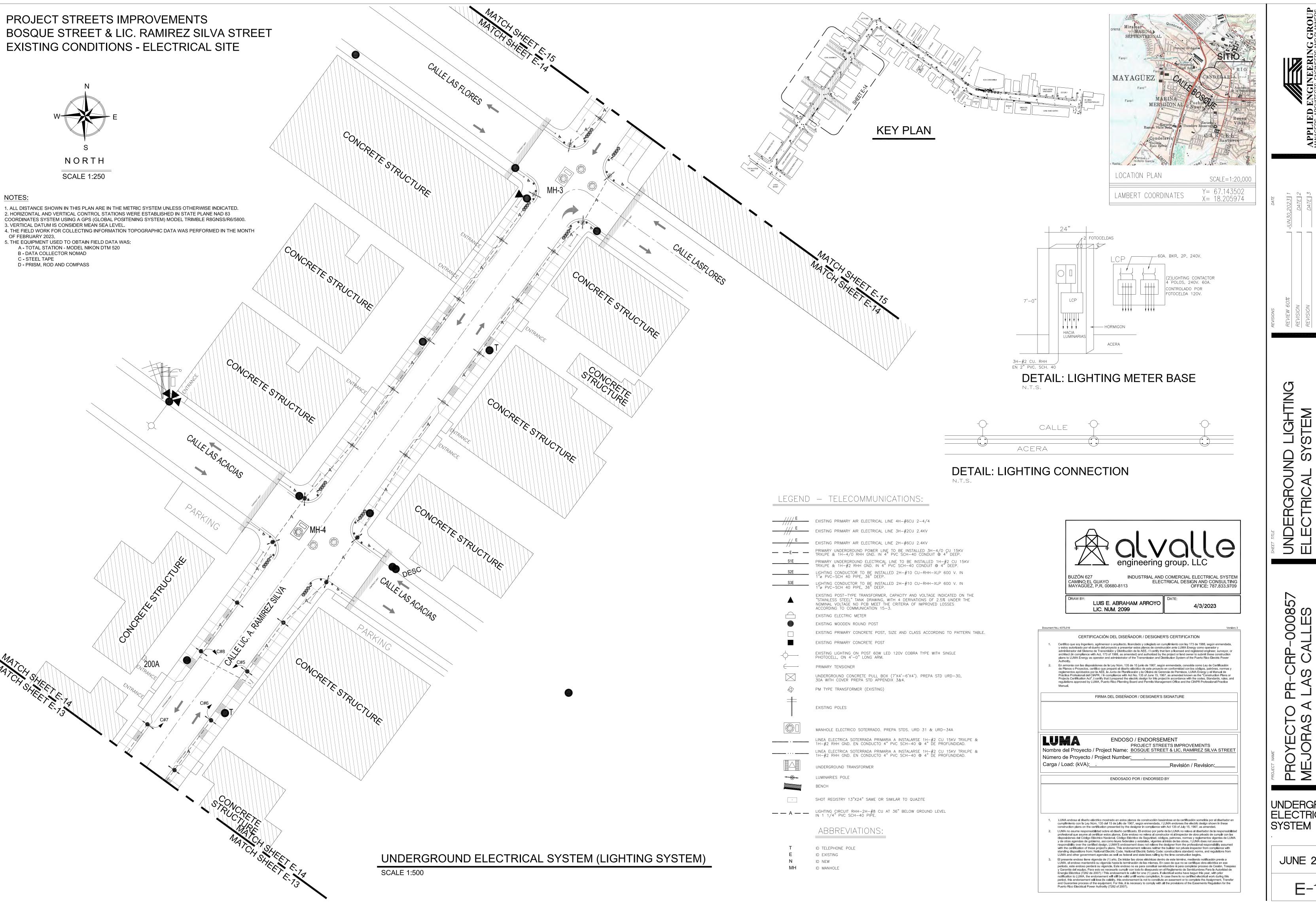
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CONSULTANT

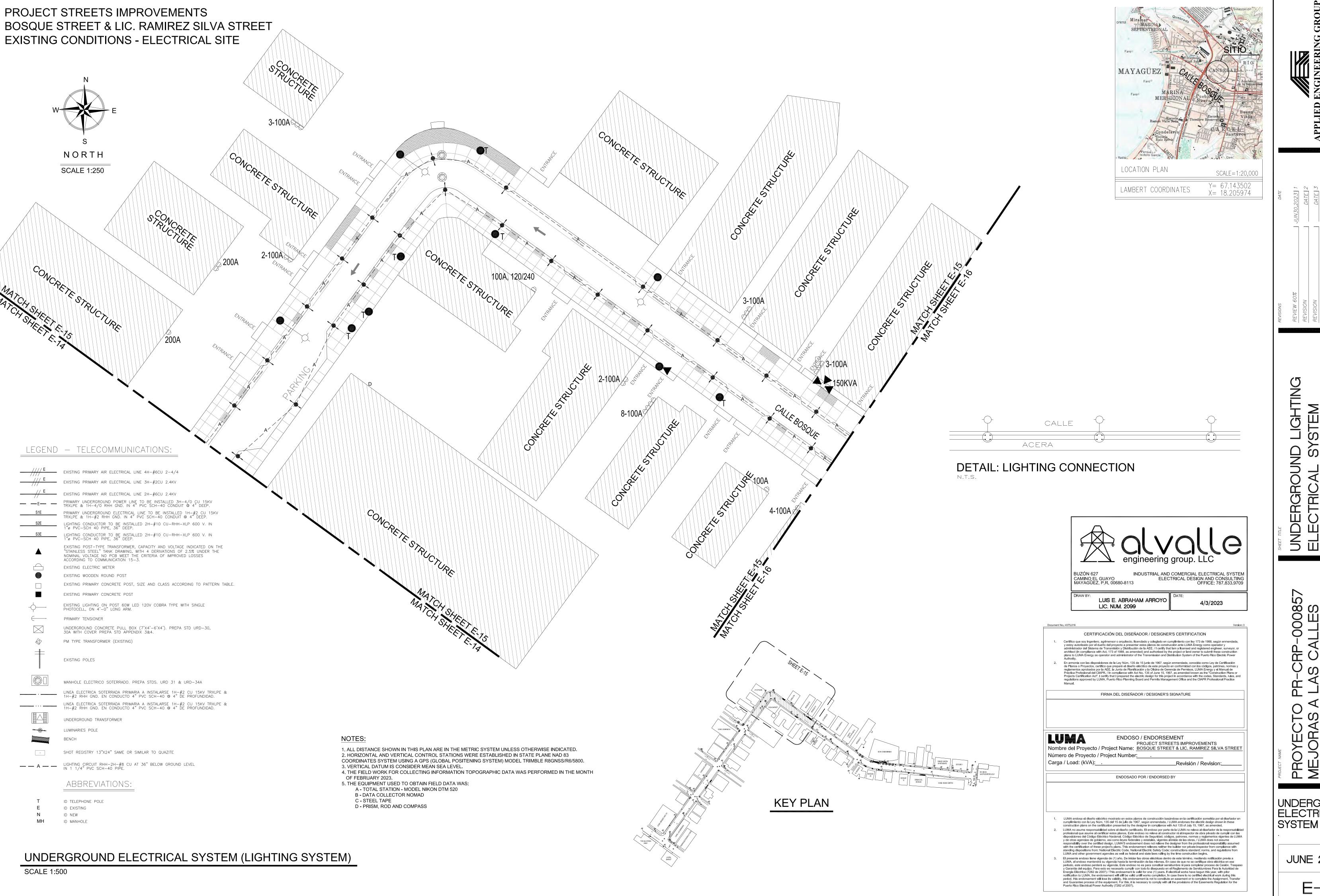


UNDERGROU ELECTRICAL SECTION 1

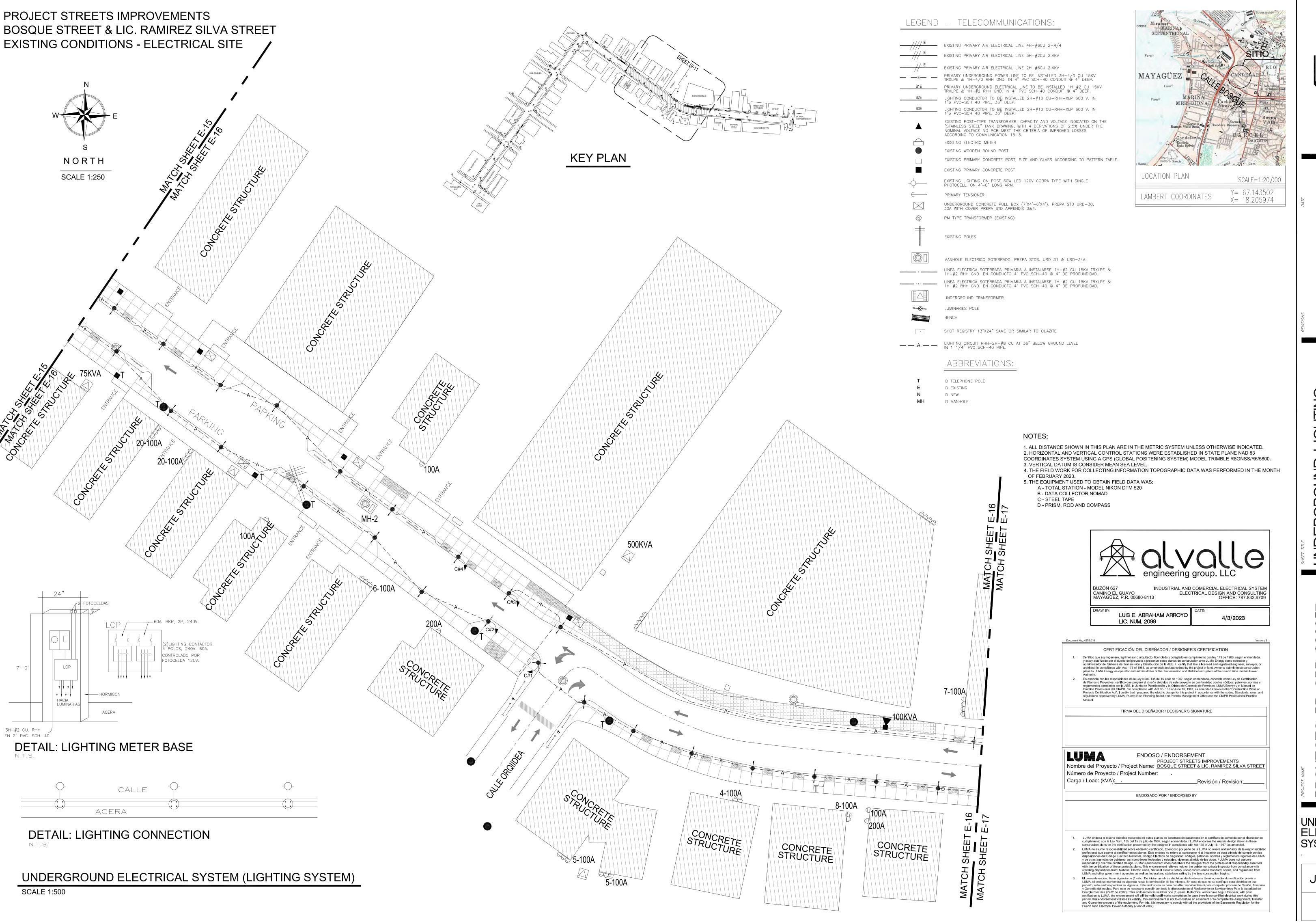
UNDERGROUND ELECTRICAL



UNDERGROUND ELECTRICAL



UNDERGROUND ELECTRICAL



UNDERGROU ELECTRICAL SECTION 4

-000857 AMIREZ

UNDERGROUND ELECTRICAL SYSTEM

LEGEND — TELECOMMUNICATIONS:

EXISTING PRIMARY AIR ELECTRICAL LINE 4H-#6CU 2-4/4 EXISTING PRIMARY AIR ELECTRICAL LINE 3H-#2CU 2.4KV

> EXISTING PRIMARY AIR ELECTRICAL LINE 2H-#6CU 2.4KV PRIMARY UNDERGROUND POWER LINE TO BE INSTALLED 3H-4/0 CU 15KV TRXLPE & 1H-4/0 RHH GND. IN 4" PVC SCH-40 CONDUIT @ 4" DEEP.

PRIMARY UNDERGROUND ELECTRICAL LINE TO BE INSTALLED 1H-#2 CU 15KV TRXLPE & 1H-#2 RHH GND. IN 4" PVC SCH-40 CONDUIT @ 4" DEEP. LIGHTING CONDUCTOR TO BE INSTALLED 2H-#10 CU-RHH-XLP 600 V. IN 1"ø PVC-SCH 40 PIPE, 36" DEEP. LIGHTING CONDUCTOR TO BE INSTALLED 2H-#10 CU-RHH-XLP 600 V. IN 1"ø PVC-SCH 40 PIPE, 36" DEEP.

EXISTING POST-TYPE TRANSFORMER, CAPACITY AND VOLTAGE INDICATED ON THE 'STAINLESS STEEL" TANK DRAWING, WITH 4 DERIVATIONS OF 2.5% UNDER THE NOMINAL VOLTAGE NO PCB MEET THE CRITERIA OF IMPROVED LOSSES ACCORDING TO COMMUNICATION 15-3. EXISTING ELECTRIC METER

EXISTING WOODEN ROUND POST EXISTING PRIMARY CONCRETE POST, SIZE AND CLASS ACCORDING TO PATTERN TABLE.

EXISTING LIGHTING ON POST 60W LED 120V COBRA TYPE WITH SINGLE PHOTOCELL, ON 4'-0" LONG ARM.

UNDERGROUND CONCRETE PULL BOX (7'X4'-6'X4'). PREPA STD URD-30, 30A WITH COVER PREPA STD APPENDIX 3&4. PM TYPE TRANSFORMER (EXISTING)

EXISTING POLES

MANHOLE ELECTRICO SOTERRADO. PREPA STDS. URD 31 & URD-34A

LINEA ELECTRICA SOTERRADA PRIMARIA A INSTALARSE 1H-#2 CU 15KV TRXLPE & 1H-#2 RHH GND. EN CONDUCTO 4" PVC SCH-40 @ 4" DE PROFUNDIDAD. LINEA ELECTRICA SOTERRADA PRIMARIA A INSTALARSE 1H-#2 CU 15KV TRXLPE & 1H-#2 RHH GND. EN CONDUCTO 4" PVC SCH-40 @ 4" DE PROFUNDIDAD.

UNDERGROUND TRANSFORMER LUMINARIES POLE

SHOT REGISTRY 13"X24" SAME OR SIMILAR TO QUAZITE

— — A — — LIGHTING CIRCUIT RHH-2H-#8 CU AT 36" BELOW GROUND LEVEL IN 1 1/4" PVC SCH-40 PIPE.

ABBREVIATIONS:

ID TELEPHONE POLE ID EXISTING ID NEW ID MANHOLE

> INDUSTRIAL AND COMERCIAL ELECTRICAL SYSTEM
> ELECTRICAL DESIGN AND CONSULTING
> OFFICE: 787.833.9709 CAMINO EL GUAYO MAYAGÜEZ, P.R. 00680-8113

LOCATION PLAN

LAMBERT COORDINATES

CERTIFICACIÓN DEL DISEÑADOR / DESIGNER'S CERTIFICATION Certifíco que soy ingeniero, agrimensor o arquitecto, licenciado y colegiado en cumplimiento con ley 173 de 1988, según enmendada, y estoy autorizado por el dueño del proyecto a presentar estos planos de construcción ante LUMA Energy como operador y administrador del Sistema de Transmisión y Distribución de la AEE. / I certify that lam a licensed and registered engineer, surveyor, or architect (in compliance with Act. 173 of 1988, as amended) and authorized by the project or land owner to submit these construction En armonía con las disposiciones de la Ley Núm. 135 de 15 junio de 1967, según enmendada, conocida como Ley de Certificación de Planos o Proyectos, certifico que preparé el diseño eléctrico de este proyecto en conformidad con los códigos, patrónes, normas y reglamentos aprobados por la AEE, la Junta de Planificación y la Oficina de Gerencia de Permisos, LUMA Energy y el Manual de Práctica Profesional del CIAPR. In compiliance with Act No. 135 of June 15, 1967, as amended known as the "Construction Plans or Projects Certification Act", I certify that I prepared the electric design for this project in accordance with the codes. Standards, rules, and regulations approved by LUMA, Puerto Rico Planning Board and Permits Management Office and the CIAPR Professional Practice

LUIS E. ABRAHAM ARROYO

LIC. NUM. 2099

FIRMA DEL DISEÑADOR / DESIGNER'S SIGNATURE

ENDOSO / ENDORSEMENT PROJECT STREETS IMPROVEMENTS Nombre del Proyecto / Project Name: BOSQUE STREET & LIC. RAMIREZ SILVA STREET

Número de Proyecto / Project Number: Carga / Load: (kVA):_

Revisión / Revision:

ENDOSADO POR / ENDORSED BY

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B - DATA COLLECTOR NOMAD C - STEEL TAPE

D - PRISM, ROD AND COMPASS

SCALE 1:500

CALLE

UNDERGROUND ELECTRICAL SYSTEM (LUMINARY SYSTEM)

ACERA

DETAIL: LIGHTING CONNECTION

CONSULTANT

SCALE=1:20,000

Y = 67.143502

X= 18.205974

UNDERGROU ELECTRICAL SECTION 5

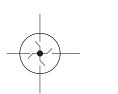
-000857 LLES **RAMIREZ**

UNDERGROUND ELECTRICAL SYSTEM

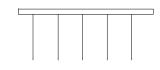
DIAGRAMA MONOLINEAL

LEYENDA:

- MCM-CU-600V-XHHW-XLP-9QC NEUTRAL IN A 6" PVC CSH-40 CONDUIT AT 13.2KV. ALSO INCLUDED IS A 6" PVC SCH 40 SPARE EMPTY CONDUIT. CAPPED AT BOTH ENDS. FOR OPERATION AT 13.2KV. INSTALLED AT 48" BELOW FIN. GRADE ENCASED IN 3" OF CONCRETE IN ALL SIDE.
- MCM-CU-600V-XHHW-XLP-90C NEUTRAL IN A 6" PVC CSH-40 CONDUIT. ALSO INCLUDED IS A 6" PVC SCH 40 SPARE EMPTY CONDUIT. CAPPED AT BOTH ENDS. FOR OPERATION AT 4.16KV. INSTALLED AT 48" BELOW FIN. GRADE ENCASED IN 3" OF CONCRETE IN ALL SIDE.
- CU-600V-XHHW-XLP-90°C NEUTRAL IN A 6" PVC CSH-40 CONDUIT. ALSO INCLUDED IS A 6" PVC SCH 40 SPARE EMPTY CONDUIT. CAPPED AT BOTH ENDS. FOR OPERATION AT 4.16KV. INSTALLED AT 48" BELOW FIN. GRADE ENCASED IN 3" OF CONCRETE IN ALL SIDE.
- THREE PHASE UNDERGROUND SECONDARY FEEDER, 4—1/C #500MCM—AWG & 1/C #4/0-AWG. GROUND-RHW-XLP-90C - COPPER IN A 4" PVC SCH-40 CONDUIT. & 1-4" PVC SCH-40 SPARE CONDUIT. CAPPER IN A BOTH ENDS. INSTALLED AT 36" BELOW FIN. GRADE END ENCASED IN 3" OF CONCRETE IN ALL SIDES.
- POSTE DE HORMIGON EXISTENTE. TAMANO Y CLASE SEGUN TABLA DE PATRONES.
- POSTE DE MADERA EXISTENTE
- EXISTENTE
- BANCOS DE CONTADORES EXISTENTES A REEMPLAZARSE. VER DETALLES
- M.H. UNDERFROUND CONCRETE ELECTRICAL MANHOLE PREPA STDS. URD-34 & URD-34A (12'x9'x8') AS ORNAMENTAL POLES OR SIMILAR.
- SUBESTACION TRIFASICA TIPO SUMERJIBLE, 55 GRADOS CELSIUS, 300 KVA, 13,200-120/240 DELTA-DELTA, 60 HZ, 4(2 1/2% TAPS) BAJO VOLTAJE NOMINAL, CONSTRUIDO EN ACERO INOXIDABLE 304L COMPLETAMENTE SIZE 11, ALIMENTACION RADIAL, TAP CHANGER EXTERNO BAJO CARGA, NON PCB, LOAD BREAK SWITCH TRIFASICO ON-OFF. INSTALADO EN REGISTRO DE CONCRETO PRECAST URD-33 & URD-33A.
- UNDERGROUND CONCRETE PULL BOX $(7'-0" \times 4'-6" \times 4'-0")$ PREPA STD. URD-30, URD-30A WITH ROADWAY COVER PLATE AS PER PREPA STD. APPENDIXES 3 & 4
- UNDERFROUND CONCRETE ELECTRICAL MANHOLE PREPA STDS. URD-33 & URD-33A (10'x7'x8') AS ORNAMENTAL POLES OR SIMILAR.



4-WAY VACUUM SWITCH-600AMPS EQUAL OR SIMILAR TO KEARNEY VAC-PAC MODEL VACPAC44VP95-6666-12. TO BE FURNISHED & INSTALLED BY THE CONTRACTOR. FOR EACH LEG OF THE VACUUM SWITCH, THE CONTRACTOR WILL ALSO FURNISH & INSTALL A CABLE OPERATOR EQUAL OR SIMILAR TO KEARNEY VACOPIV AND THE RELATD 600 AMPS. ELBOW CONNECTOR. SEE APPENDIX 14 OF THE PREPA UNDERGROUND DISTRIBUTION STANDARDS.



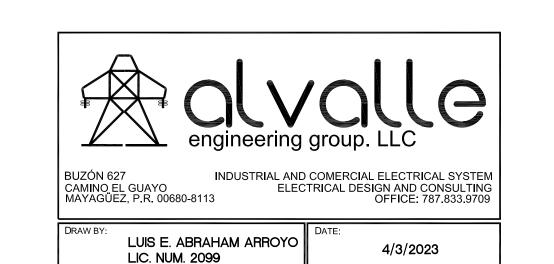
SECONDARY MOLES-7 CONNECTORS AS PER PREPA STD. URD. APPENDIX 27



PRIMARY CONNECTION BOXES 6-WAY 15KV-200AMPS THE CONTRACTOR SHALL $\psi \psi \psi \psi \psi$ furnish and install the load break elbow connectors. SEE PREPA STD. APPENDIX 17



CU-600V-XHHW-XLP-90C NEUTRAL IN A 6" PVC CSH-40 CONDUIT. ALSO INCLUDED IS A 6" PVC SCH 40 SPARE EMPTY CONDUIT. CAPPED AT BOTH ENDS. FOR OPERATION AT 4.16KV. INSTALLED AT 48" BELOW FIN. GRADE ENCASED IN 3" OF CONCRETE IN ALL SIDE.



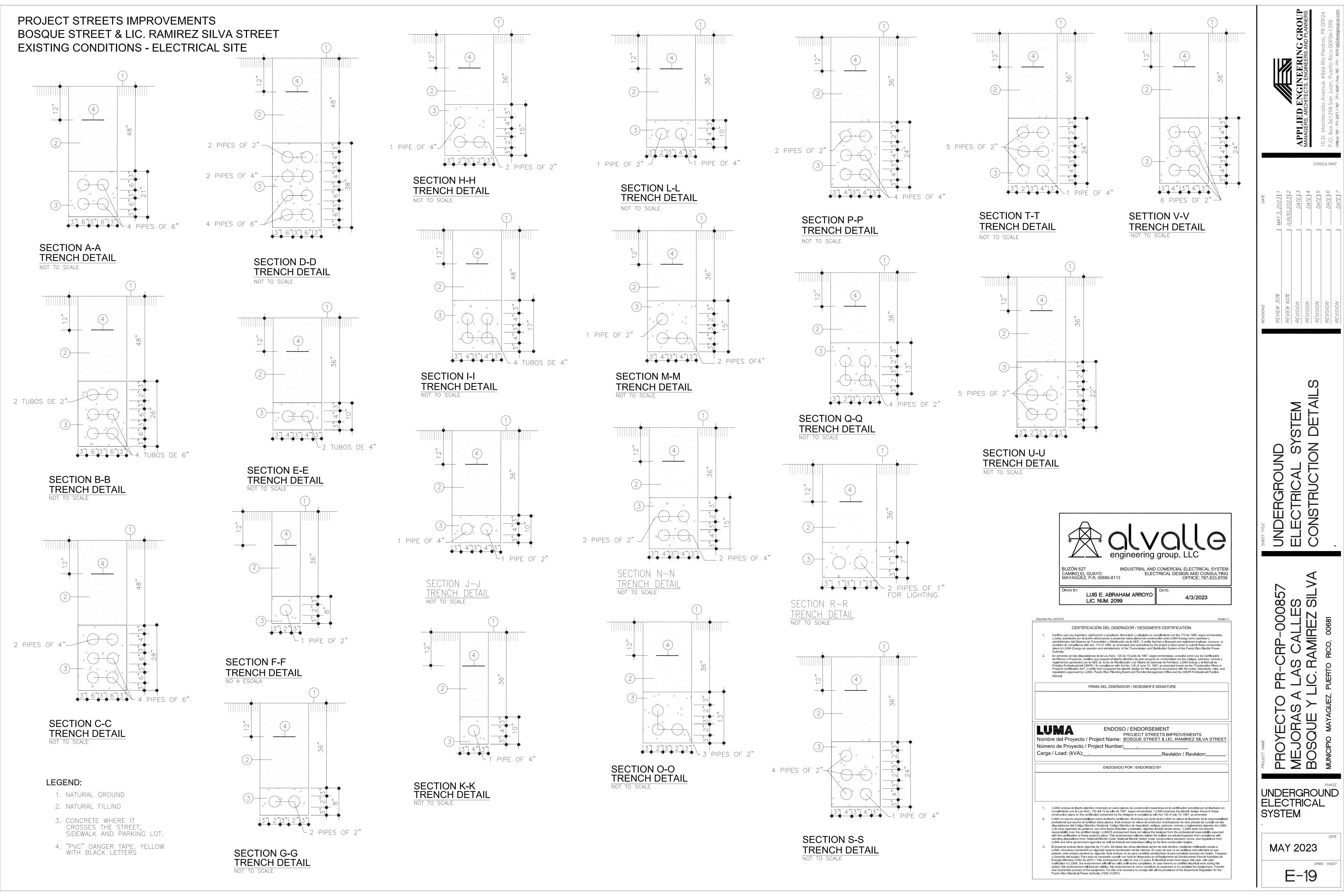


		QUE STREET & LIC. RAMIREZ SILVA STREE
	ero de Proyecto / Project Number: a / Load: (kVA):	 Revisión / Revision:
	ENDOSADO POR	/ ENDORSED BY
1.		construcción basándose en la certificación sometida por el diseñador e ín enmendada, / LUMA endorses the electric design shown in these
	construction plans on the certification presented by the designed	r in compliance with Act 135 of July 15, 1967, as amended.
2.	profesional que asume al certificar estos planos. Este endoso n	endoso por parte de la LUMA no releva al diseñador de la responsabili o releva al constructor ni al inspector de obra privado de cumplir con la e Seguridad, códigos, patrones, normas y reglamentos vigentes de LUI tatales, vigentes al inicio de las obras. / LUMA does not assume

y de olds ageritats de gouerne, ast control leyes rederies y estatales, rigerites at micro de las obtas. Technic does not estate responsibility over the certified design. LUMA'S endosement does not relieve the designer from the professional responsibility assumed with the certification of these project's plans. This endorsement relieves neither the builder nor private inspector from compliance with standing dispositions from: National Electric Code, National Electric Safety Code, constructions standard; norms, and regulations from LUMA and other government agencies as well as federal and state laws rulling by the time construction begins. El presente endoso tiene vigencia de (1) año. De iniciar las obras eléctricas dentro de este término, mediando notificación previa a El presente endoso tiene vigencia de (1) año. De iniciar las obras eléctricas dentro de este término, mediando notificación previa a LUMA, el endoso mantendrá su vigencia hasta la terminación de las mismas. En caso de que no se certifique obra eléctrica en ese periodo, este endoso perderá su vigencia. Este endoso no es para constituir servidumbre ni para completar proceso de Cesión, Traspaso y Garantta del equipo. Para esto es necesario cumplir con todo lo disepuesto en el Reglamento de Servidumbres Para la Autoridad de Energia Eléctrica (7282 de 2007) / This endosement is valid for one (1) years. If electrical works have begun this year, with prior notification to LUMA, the endorsement will still be valid untill works completion. In case there is no certified electrical work during this period, this endorsement will lose its validity. this endorsement is not to constitute an easement or to complete the Assignment, Transfer and Guarantee process of the equipment. For this, it is necesary to comply with all the provisions of the Easements Regulation for the Puerto Rico Electrical Power Authority (7282 of 2007).

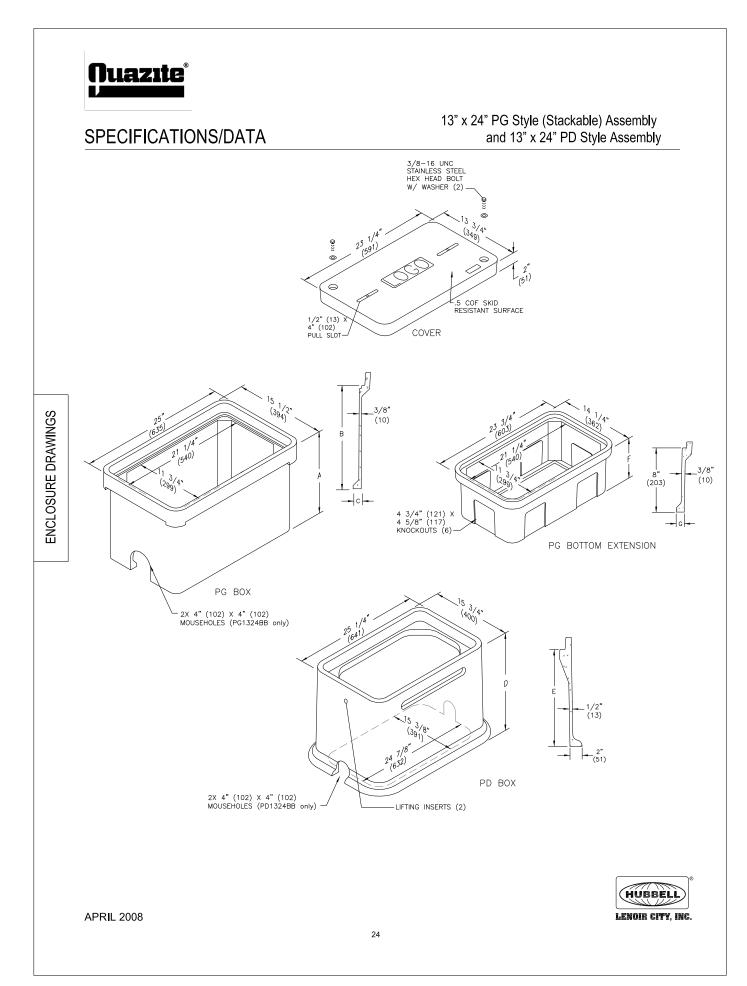
UNDERGROUND ELECTRICAL SYSTEM

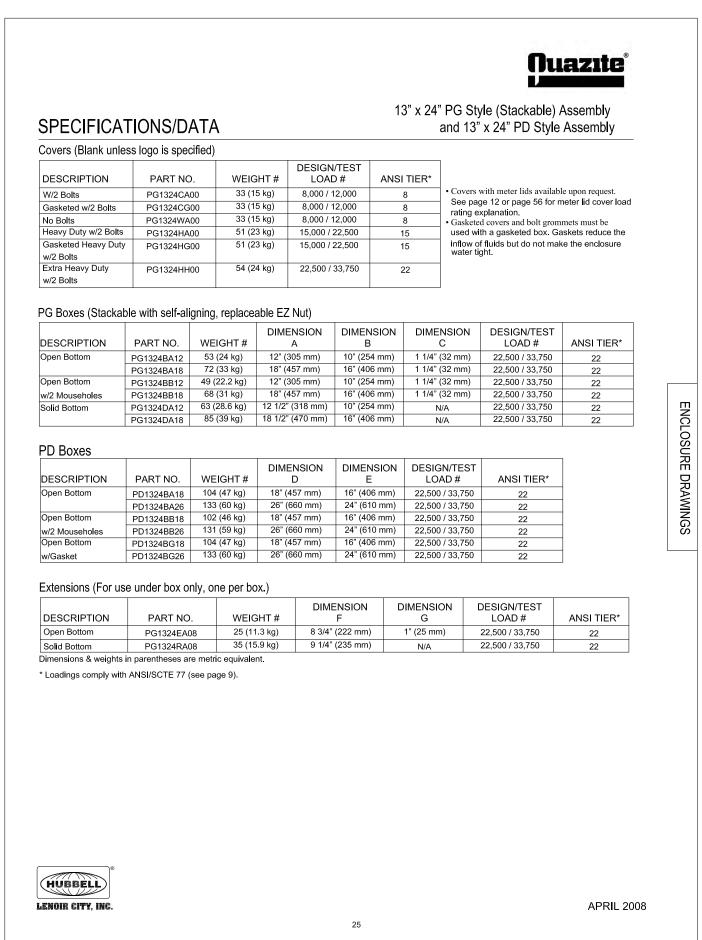
MAY 2023



PROJECT STREETS IMPROVEMENTS **BOSQUE STREET & LIC. RAMIREZ SILVA STREET EXISTING CONDITIONS - ELECTRICAL SITE**

SERVICE	CONDUCT	CALIBER	DARY SERVICES COMENTS	DETAILS TYPE
1	*	*	*	*
2	*	*	*	*
(3)	*	*	*	*
(5)	*	*	*	*
6	*	*	*	*
7	*	*	*	*
8	*	*	*	*
<u>(9)</u> (10)	*	*	*	*
(11)	*	*	*	*
12)	*	*	*	*
13)	*	*	*	*
(14)	*	*	*	*
<u>(15)</u> (16)	*	*	*	*
(17)	*	*	*	*
18)	*	*	*	*
19	*	*	*	*
(20)	*	*	*	*
(21)	*	*	*	*
(23)	*	*	*	*
(21)(22)(23)(24)(25)	*	*	*	*
	*	*	*	*
26 27 28 29 30 31 32 33 34	*	*	*	*
(27)	*	*	*	*
(29)	*	*	*	*
30)	*	*	*	*
31)	*	*	*	*
(32)	*	*	*	*
(3.3)	*	*	*	*
35)	*	*	*	*
36 37	*	*	*	*
37)	*	*	*	*
<u>38</u> <u>39</u>	*	*	*	*
40	*	*	*	*
(41)	*	*	*	*
42	*	*	*	*
(43)	*	*	*	*
(44)	*	*	*	*
(43) (44) (45) (46) (47)	*	*	*	*
	*	*	*	*
48	*	*	*	*
(49) (50)	*	*	*	*
(51)	*	*	*	*
52)	*	*	*	*
(53)	*	*	*	*
<u>(54)</u>	*	*	*	*
<u>(55)</u> (56)	*	*	*	*
(57)	*	*	*	*
51 52 53 54 55 56 57 58 59	*	*	*	*
	*	*	*	*
<u>(60)</u>	*	*	*	*
(51) (62) (63) (64)	*	*	*	*
63)	*	*	*	*
64)	*	*	*	*
65)	*	*	*	*
66 67	*	*	*	*
(68)	*	*	*	*
69	*	*	*	*
70	*	*	*	*
71	*	*	*	*
<u>(72)</u> (73)	*	*	*	*
73 74	*	*	*	*
(75)	*	*	*	*
(76)	*	*	*	*
77	*	*	*	*
78)	*	*	*	*
79	*	*	*	*

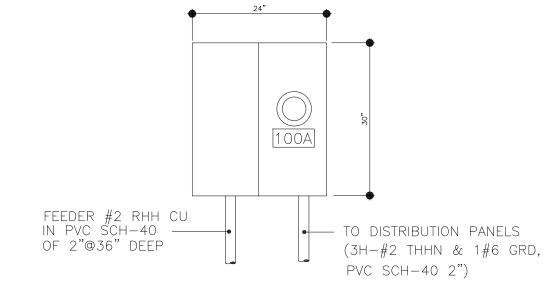




SHOP RECORD DETAIL (13" x 24")
NOT TO SCALE

NOTE 1: THE CONTRACTOR WILL VERIFY THE CONDITIONS OF THIS WORK BEFORE CARRYING OUT THE WORK. THE FEEDER CONDUIT WHEN UNDERGROUND AND R.G.S. WHEN EXPOSED.

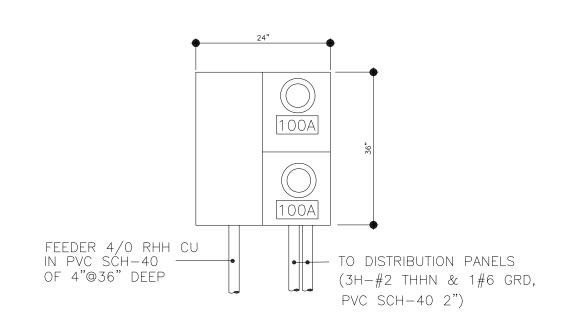
CONSTRUCTION PATTERNS | HEIGHT AND CLASS| PATTERNS NUMBER 40C3 CP-B5, EXISTING E1 CP-C1,M2-1,M16-2,M16-3,M16-4,URD-4,URD-5 45H6 CP-C1,M2-1,M16-2,M16-3,M16-4,URD-4,URD-560H6 |CP-C1,M2-1,M16-2,M16-3,M16-4,URD-4,URD-5||CP-A5,M2-1,M16-2,M16-3,M16-4,URD-4,URD-5|



FRONTAL VIEW

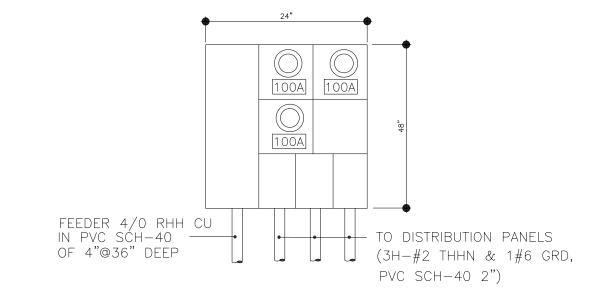
METERING BANK DETAIL

NOT TO SCALE

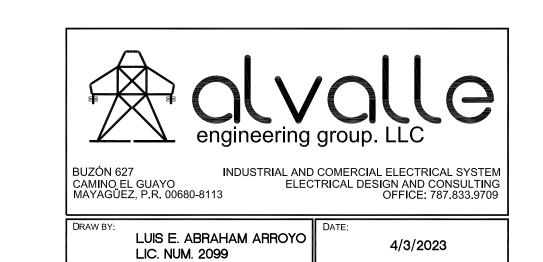


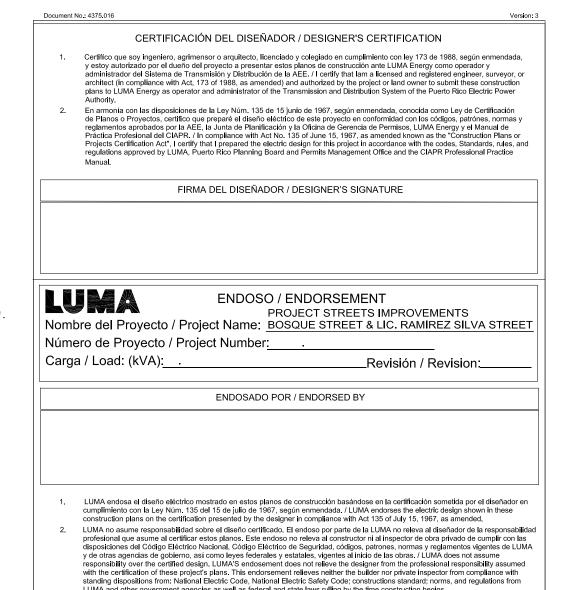
FRONTAL VIEW

METERING BANK DETAIL NOT TO SCALE



FRONTAL VIEW METERING BANK DETAIL





LUMA and other government agencies as well as federal and state laws rulling by the time construction begins.

El presente endoso tiene vigencia de (1) año. De iniciar las obras eléctricas dentro de este término, mediando notificación previa a

El presente endoso tiene vigencia de (1) año. De iniciar las obras eléctricas dentro de este término, mediando notificación previa a LUMA, el endoso mantendrá su vigencia hasta la terminación de las mismas. En caso de que no se certifique obra eléctrica en ese periodo, este endoso perderá su vigencia. Este endoso no es para constituir servidumbre ni para completar proceso de Cesión, Traspaso y Garantia del equipo. Para esto es necesario cumplir con todo lo disepuesto en el Reglamento de Servidumbres Para la Autoridad de Energia Eléctrica (1282 de 2007) / This endosement is validi for one (1) years. If electrica works have begun this year, with prior notification to LUMA, the endorsement will still be valid untill works completion. In case there is no certified electrical work during this period, this endorsement will lose its validity. this endorsement is not to constitute an easement or to complete the Assignment, Transfer and Guarantee process of the equipment. For this, it is necesary to comply with all the provisions of the Easements Regulation for the Puerto Rico Electrical Power Authority (7282 of 2007).

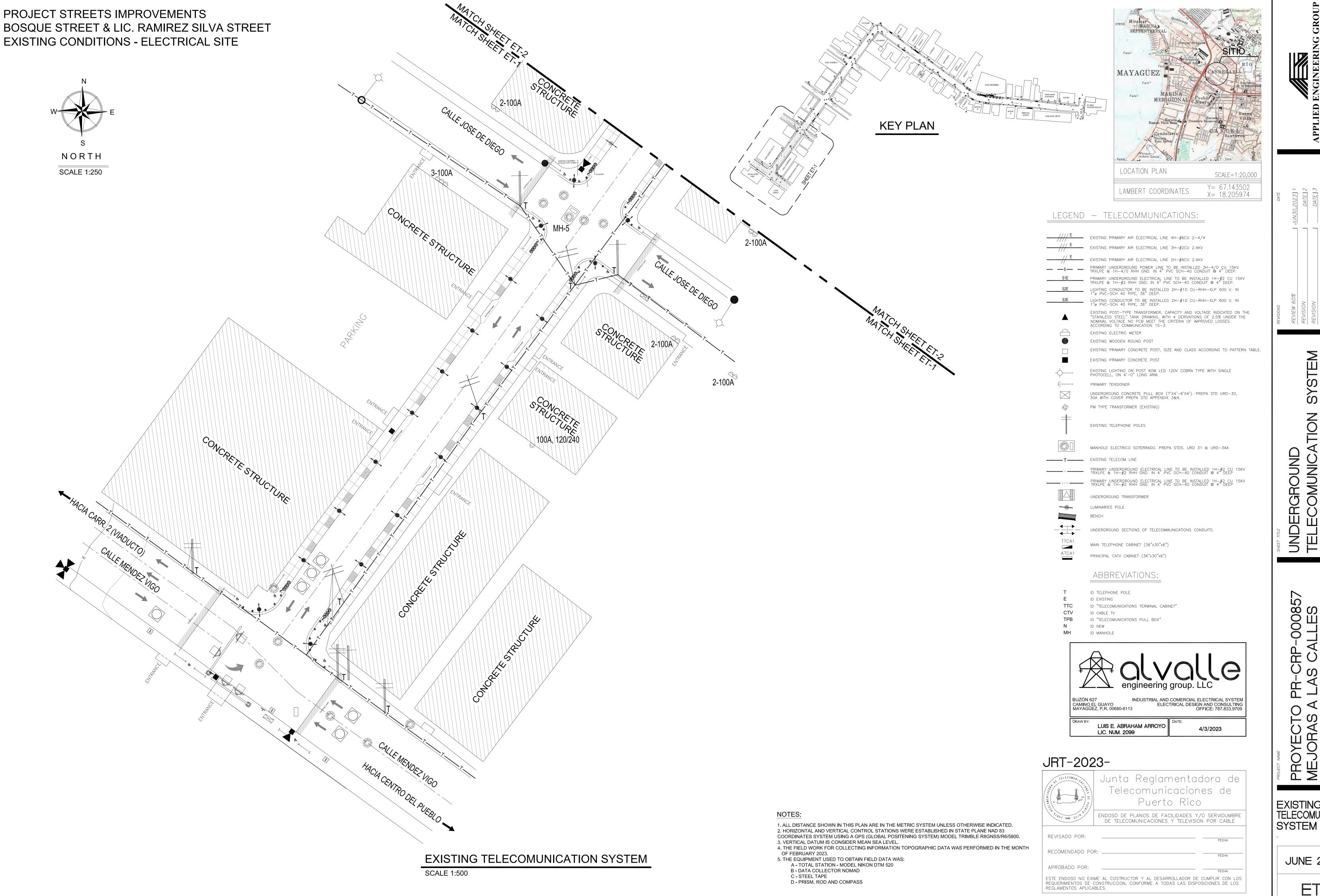
CONSULTANT

UNDERGROUI ELECTRICAL CONSTRUCTI

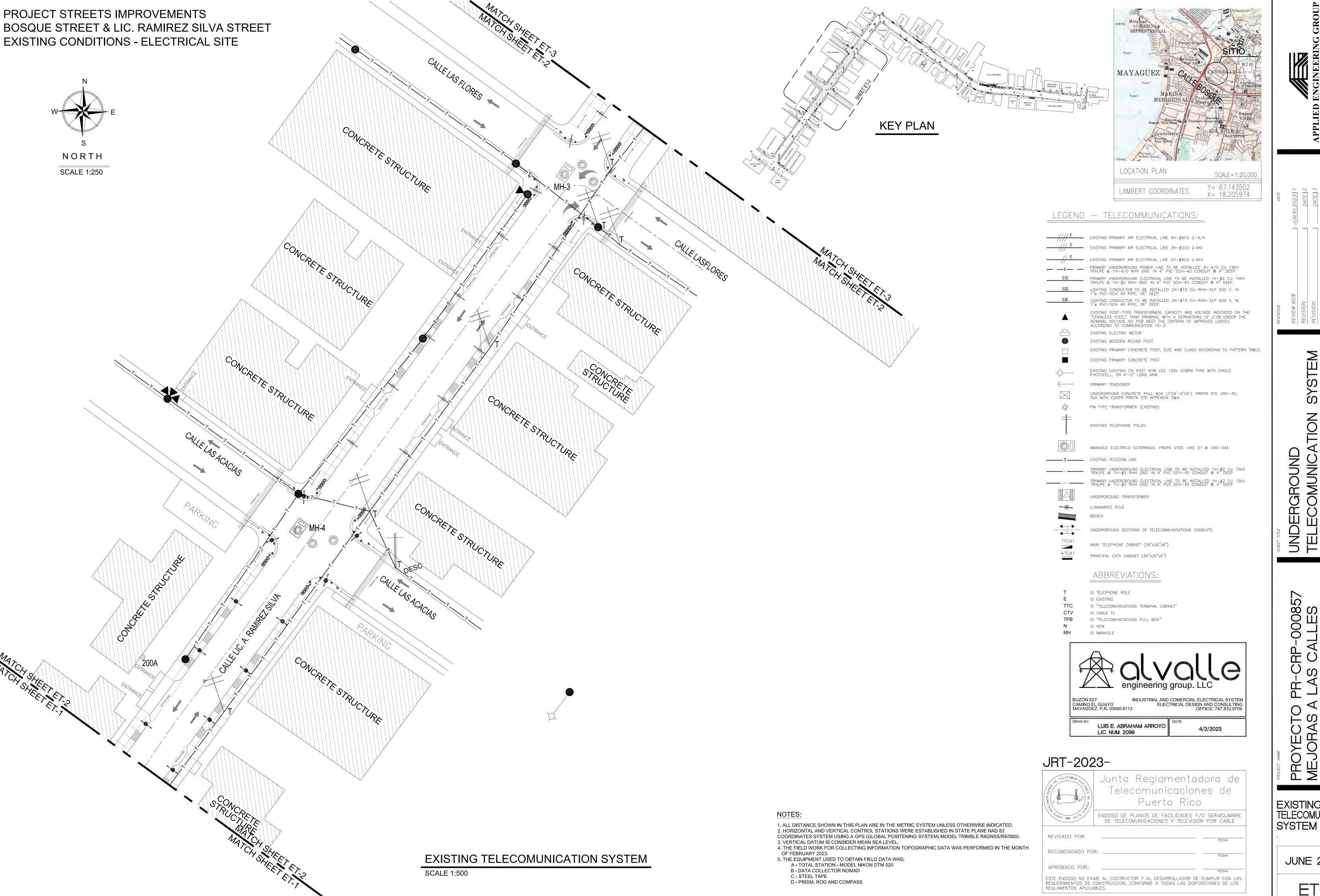
-000857 LLES REZ SIL **AMIRE**

UNDERGROUND ELECTRICAL SYSTEM

MAY 2023

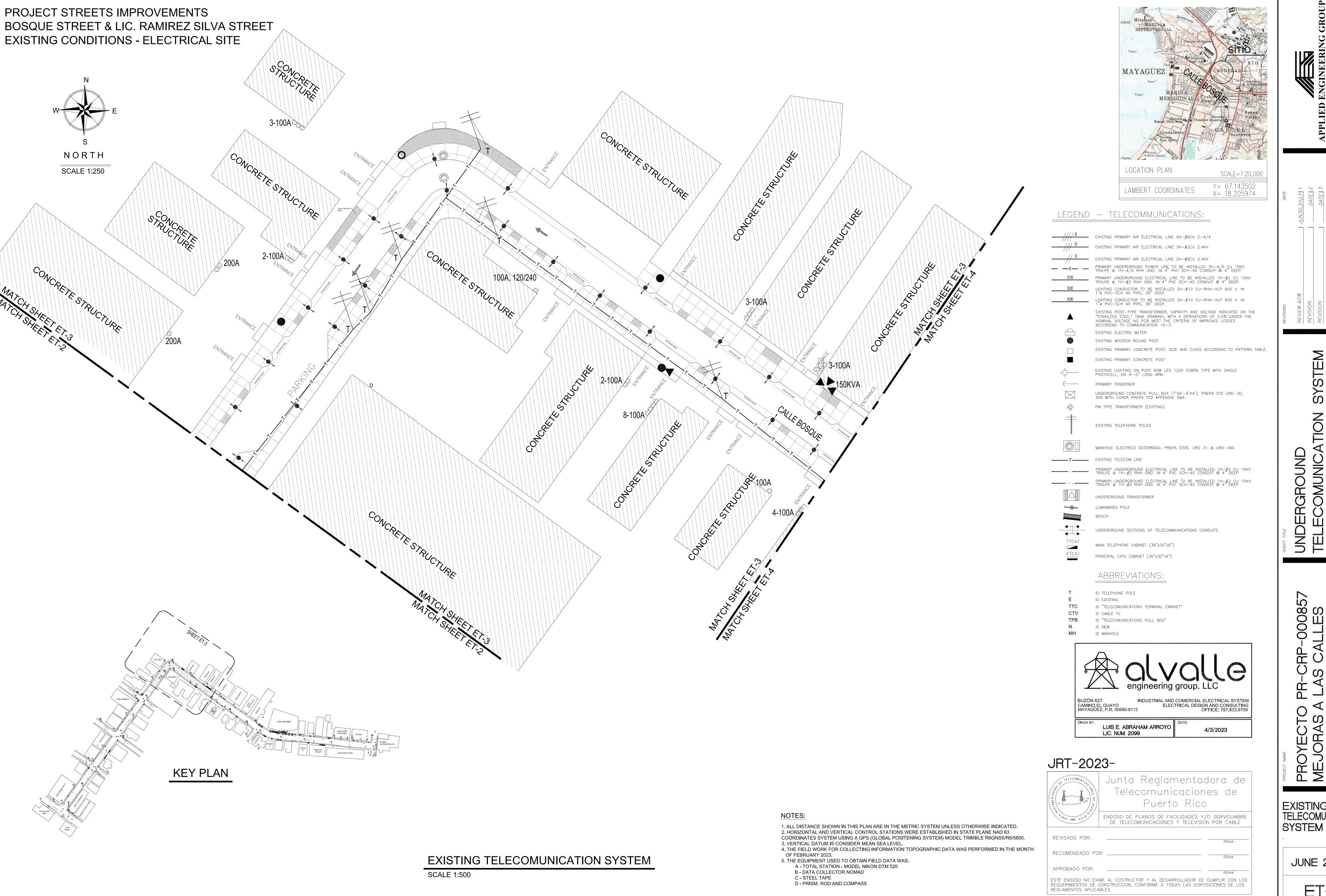


EXISTING TELECOMUNICATION

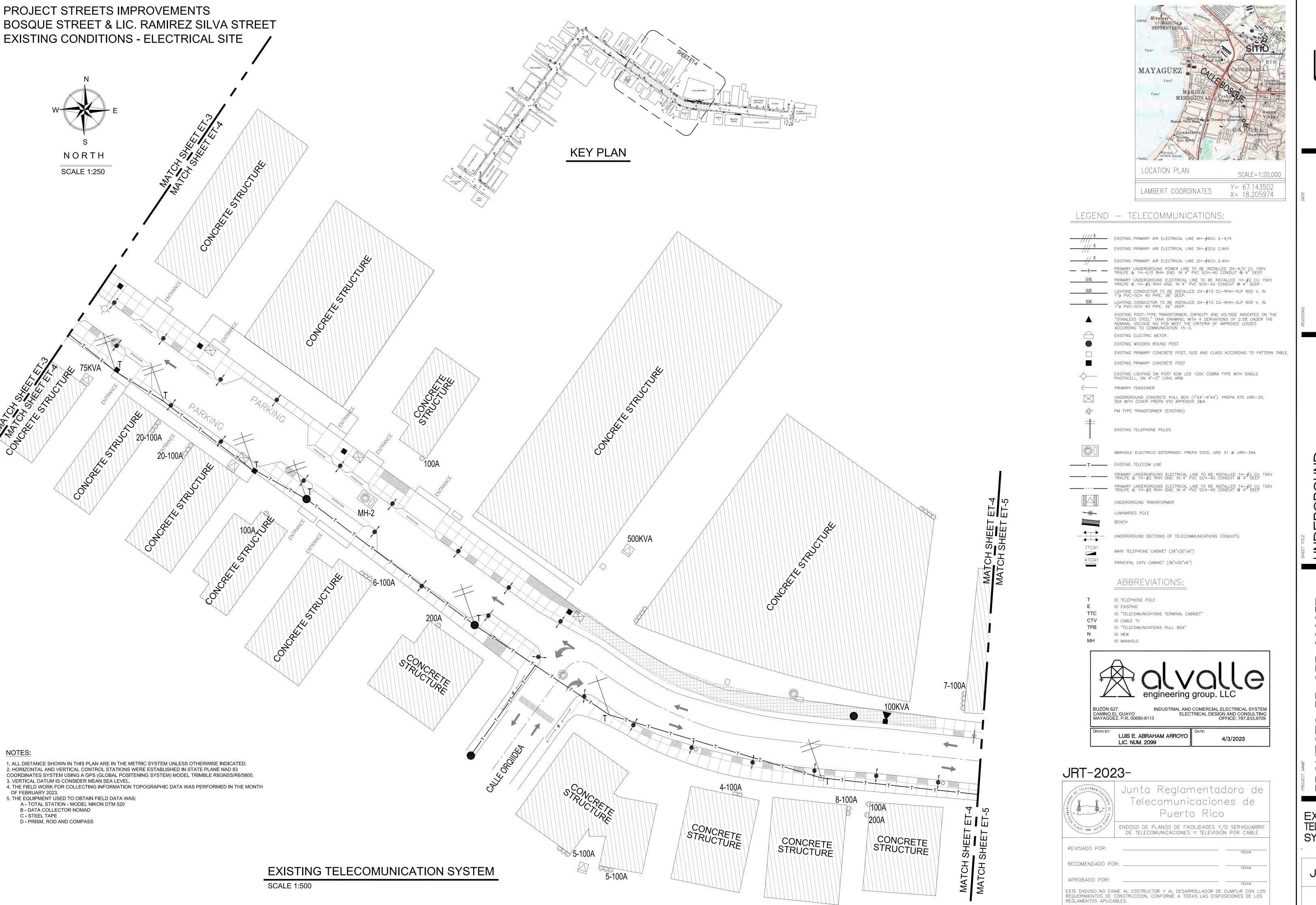


UNDERGROUND
TELECOMUNICA
SECTION 2

EXISTING TELECOMUNICATION



EXISTING TELECOMUNICATION



ET-4

DATE 4

DATE 5

DATE 6

LINEARING

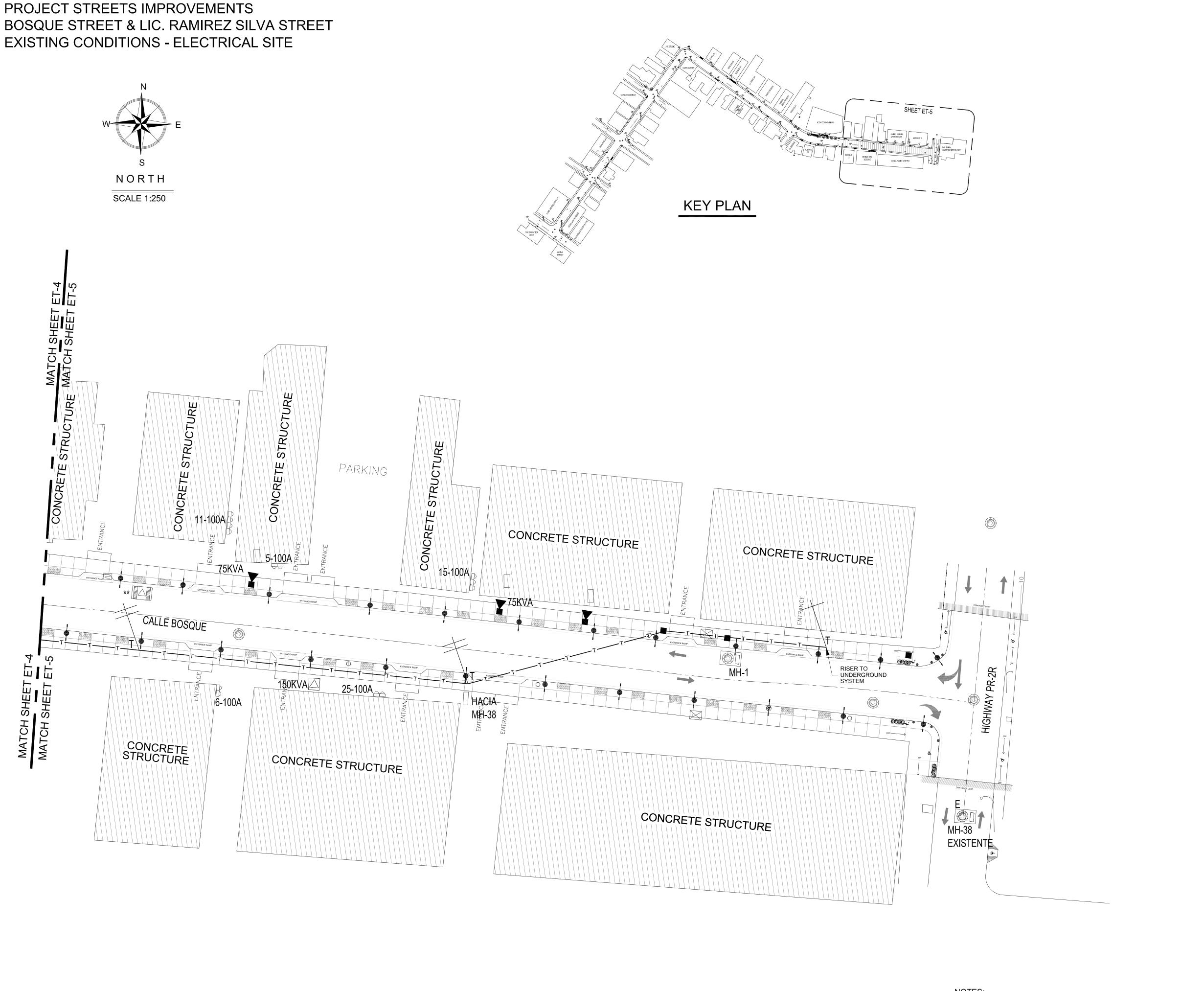
DATE 7

REVISION
REVISION
REVISION
REVISION
REVISION
REVISION

UNDERGROUND
TELECOMUNICATION
SECTION 4

YECTO PR-CRP-00085
IORAS A LAS CALLES
QUE Y LIC. RAMIREZ SII

EXISTING
TELECOMUNICATION
SYSTEM



NOTES:

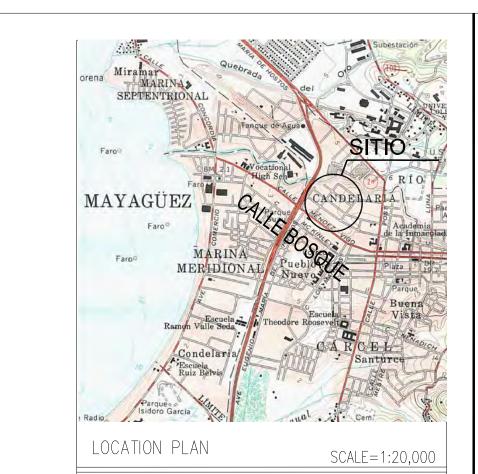
1. ALL DISTANCE SHOWN IN THIS PLAN ARE IN THE METRIC SYSTEM UNLESS OTHERWISE INDICATED. 2. HORIZONTAL AND VERTICAL CONTROL STATIONS WERE ESTABLISHED IN STATE PLANE NAD 83 COORDINATES SYSTEM USING A GPS (GLOBAL POSITENING SYSTEM) MODEL TRIMBLE R8GNSS/R6/5800. 3. VERTICAL DATUM IS CONSIDER MEAN SEA LEVEL.

4. THE FIELD WORK FOR COLLECTING INFORMATION TOPOGRAPHIC DATA WAS PERFORMED IN THE MONTH OF FEBRUARY 2023. 5. THE EQUIPMENT USED TO OBTAIN FIELD DATA WAS:

A - TOTAL STATION - MODEL NIKON DTM 520

C - STEEL TAPE D - PRISM, ROD AND COMPASS

B - DATA COLLECTOR NOMAD



Y = 67.143502

X= 18.205974

LEGEND — TELECOMMUNICATIONS:

_______E EXISTING PRIMARY AIR ELECTRICAL LINE 4H-#6CU 2-4/4

EXISTING PRIMARY AIR ELECTRICAL LINE 3H-#2CU 2.4KV EXISTING PRIMARY AIR ELECTRICAL LINE 2H-#6CU 2.4KV LIGHTING CONDUCTOR TO BE INSTALLED 2H-#10 CU-RHH-XLP 600 V. IN 1"0 PVC-SCH 40 PIPE, 36" DEEP. LIGHTING CONDUCTOR TO BE INSTALLED 2H-#10 CU-RHH-XLP 600 V. IN 1"0 PVC-SCH 40 PIPE, 36" DEEP.

LAMBERT COORDINATES

EXISTING POST-TYPE TRANSFORMER, CAPACITY AND VOLTAGE INDICATED ON THE "STAINLESS STEEL" TANK DRAWING, WITH 4 DERIVATIONS OF 2.5% UNDER THE NOMINAL VOLTAGE NO PCB MEET THE CRITERIA OF IMPROVED LOSSES ACCORDING TO COMMUNICATION 15-3. EXISTING ELECTRIC METER EXISTING WOODEN ROUND POST EXISTING PRIMARY CONCRETE POST, SIZE AND CLASS ACCORDING TO PATTERN TABLE.

EXISTING PRIMARY CONCRETE POST EXISTING LIGHTING ON POST 60W LED 120V COBRA TYPE WITH SINGLE

UNDERGROUND CONCRETE PULL BOX (7'X4'-6'X4'). PREPA STD URD-30, 30A WITH COVER PREPA STD APPENDIX 3&4. PM TYPE TRANSFORMER (EXISTING)

EXISTING TELEPHONE POLES

MANHOLE ELECTRICO SOTERRADO. PREPA STDS. URD 31 & URD-34A

----T----- EXISTING TELECOM LINE

PRIMARY UNDERGROUND ELECTRICAL LINE TO BE INSTALLED 1H-#2 CU 15KV TRXLPE & 1H-#2 RHH GND. IN 4 PVC SCH-40 CONDUIT @ 4" DEEP

UNDERGROUND TRANSFORMER LUMINARIES POLE

UNDERGROUND SECTIONS OF TELECOMMUNICATIONS CONDUITS.

MAIN TELEPHONE CABINET (36"x30"x6")

PRINCIPAL CATV CABINET (36"x30"x6")

ABBREVIATIONS:

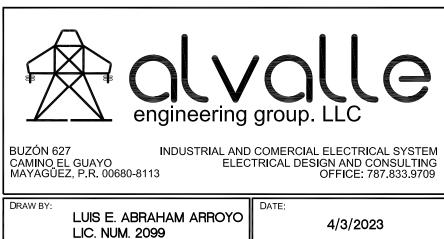
ID TELEPHONE POLE ID EXISTING

TTCA1

ID CABLE TV ID "TELECOMUNICATIONS PULL BOX"

ID NEW

ID MANHOLE



ID.	T $_{\sim}$ $^{\circ}$	2	2

APROBADO POR:

REGLAMENTOS APLICABLES.

JRT-202	23-
TELECONUNICATION OF TELECO	Junta Reglamentadora de Telecomunicaciones de Puerto Rico
M// 1996 00 18	ENDOSO DE PLANOS DE FACILIDADES Y/O SERVIDUMBRE DE TELECOMUNICACIONES Y TELEVISION POR CABLE
REVISADO POR:	FECHA

TELECOMUNICATION SYSTEM JUNE 2023

EXISTING

UNDERGROUI TELECOMUNI SECTION 5

AMIREZ

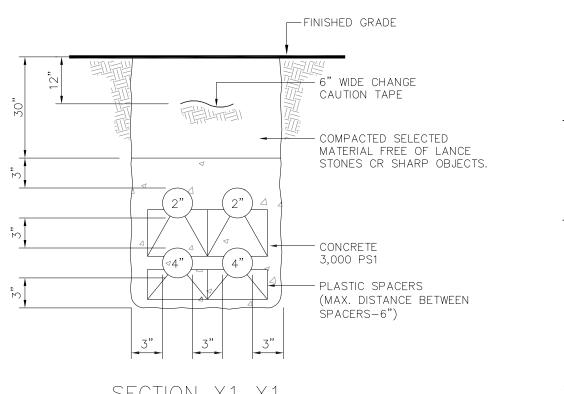
CRP

CONSULTANT

ESTE ENDOSO NO EXIME AL COSTRUCTOR Y AL DESARROLLADOR DE CUMPLIR CON LOS REQUERIMIENTOS DE CONSTRUCCION, CONFORME A TODAS LAS DISPOSICIONES DE LOS

EXISTING TELECOMUNICATION SYSTEM SCALE 1:500

PROJECT STREETS IMPROVEMENTS **BOSQUE STREET & LIC. RAMIREZ SILVA STREET EXISTING CONDITIONS - ELECTRICAL SITE**



-TYPICAL PIPE

-RIGID GALV.

STEEL CONDUITS

CONCRETE BASE

— 4"Ø & 2"Ø 90-36"(R)

(SEE TYPICAL SECTIONS THIS SHEET).

TELECOMMUNICATIONS RISER DETAIL

TELEPHONE RISER TO POLES AS PER SECTION OF CONDUITS X1, X1

(CONCRETE POLE (TYPICAL)

1 — CONTRACTOR TO INSTALL UNDERGROUND CONDUITS AND

2- COORDINATE CONDUITS INSTALLATION WITH PROJECT "JUNTA REGLAMENTADORA DE COMUNICACIONES DE PUERTO

P.V.C.BEND.

RICO"INSPECTORS.

STRAP

CONCRETE

GROUNDING LEVEL

-2-4" & 2-2" PVC

TO DEVELOPMENT

EXISTING CONCRETE ----

SEAL CONDUIT WITH

(SEE DETAILS).

DUCT SEAL OR EQUIV.

PVC GIP-

ADAPTER

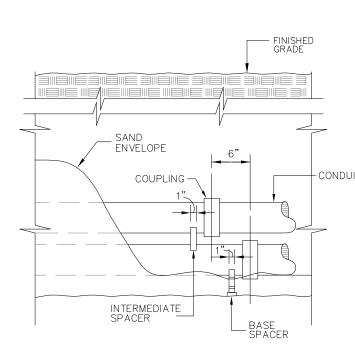
GROUND ROOD -

4 #3 @ 6"C.C.-

14.5"LONG

8"X5/8"

POLE CLASS H4 35'-0"



TYPICAL CONDUIT ELEVATION

CONDUIT

4"Ø CONDUIT——— GALVANIZED

CONDUIT

4 - CURVE 90°-36(R)

— P.V.C. DE 3−4" &

DUCT SEAL OR EQUIV.-

FEMALE

FRONT VIEW

ADAPTER

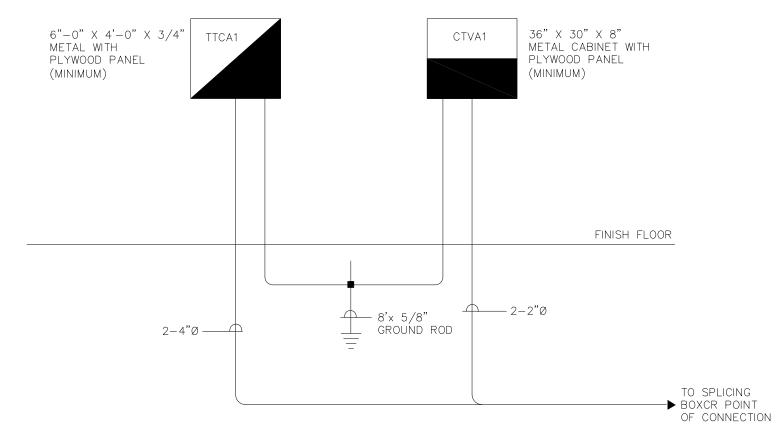
PLATE-

SECTION A-A

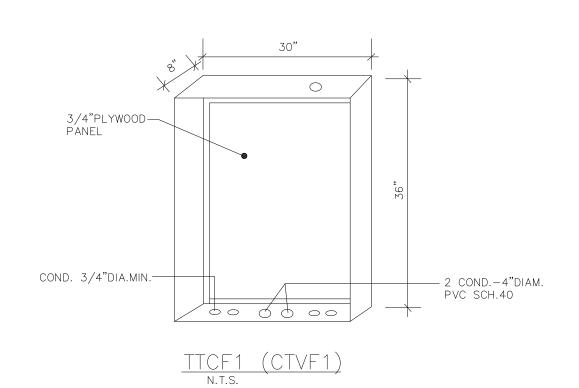
SPACE

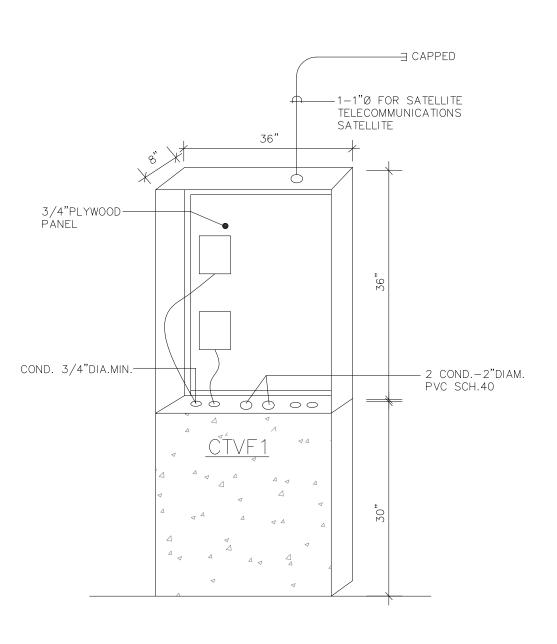
STEEL OR PVC CAP -

REMOVABLE TYPE



MAIN TELECOMMUNICATIONS TERMINALS FOR COMMERCIAL BUILDING-(TYPICAL)





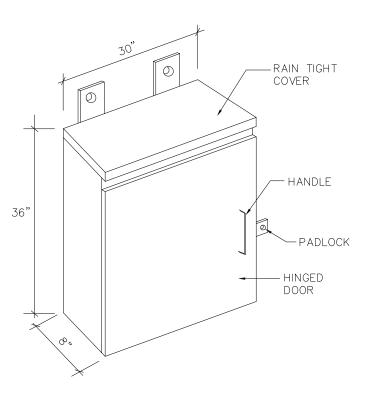
TELECOMUNICATIONS CABINETS DETAILS

NOTE:

1. THE MINIMUM SIZE OF TELECOMUNICATIONS CABINETS (TELEPHONE OR CATV) WHEN REQUIRED(AT WALK—UPS OR OTHER STRUCTURES) SHALL BE BE 36"x24"x6" EQUIPPED WITH A 3/4" PLYWOOD BACKBOARD, A HINGED DOOR WITH LATCH AND KEY, AND SHALL HAVE COMPLETE FRONTAL ACCESS. THE CABINETS SHALL ALSO PROVIDE FOR THE PROPER BONDING AND GROUNDING OF THE TELECOMUNICATIONS FACILITIES.

CONTINUE GENERAL NOTES: (REQUIRED BY J.R.T.P.R.)

- 23- THE INTERIOR RESIDENTIAL TELECOMMUNICATIONS.SERVICE DISTRIBUTION CONDUITS SHALL HAVE A MINIMUM 3/4" INSIDE DIAMETER AND EACH LIVING UNIT SHALL BE PROVIDED WITH TELECOMMUNICATIONS SERVICES (TELEPHONE AND CATV) OUTLETS IN THE KITCHEN, LIVING ROOM AND EACH OF THE BEDROOMS.
- 24- AT WALK-UPS AND MULTI-STORY RESIDENTIAL BUILDINGS THE MINIMUM SIDE FOR TELECOMMUNICATIONS CABINETS SHALL BE 36" x 24" x 6" FOR (TELEPHONE) AND 36" x 36" x 8" FOR (CATV) AND SHALL SERVE NO MORE THAN 16 UNITS. THE CABINETS SHALL DE EQUIPPED WITH A 3/4" THICK TREATED PLYWOOD BACKBOARD A HINGED DOOR WITH LATCH AND KEY, AND SHALL HAVE COMPLETE FRONTAL ACCESS. THE CABINETS SHALL ALSO PROVIDE FOR THE PROPER BONDING AND GROUNDING OF THE TELECOMMUNICATIONS FACILITIES AND MUST COMPLY WITH THE CURRENT NATIONAL ELECTRIC CODE.
- 25- WALK-UP PROJECTS SHALL HAVE INDEPENDENT TELECOMMUNICATIONS CABINETS FOR TELEPHONE AND CATV SERVICES. THE TELEPHONE CABINET WILL BE CONNECTED TO THE NEAREST SPLICING BOX BY MEANS OF 2 - 2" Ø PVC CONDUITS. THE CATV CABINET WILL BE CONNECTED TO THE NEAREST SPLICING BOX OR THE NEAREST CATV CABINET (IN THE NEXT BUILDING) DEPENDING ON THE LOOP DESIGN SPECIFIED ON THE DRAWINGS BY MEANS OF 2 - 2"Ø PVC CONDUITS.THE MINIMUM SIZE OF THE SPLICE BOX SHALL BE 7'-0" x 4'-6" x 4'-0" AND MAY BE JOINTLY USED FOR TELEPHONE AND CATV SERVICES.
- 26- RESIDENTIAL BUILDING (MULTI-STORY APARTMENT BUILDINGS OTHER THAN WALK UPS, HIGH-RISE CONDOMINIUMS, ETC.) SHALL HAVE INDEPENDENT MAIN DISTRIBUTION CABINETS FOR TELEPHONE AND CATV SERVICES. THE MAIN DISTRIBUTION CABINETS, GENERALLY CONSISTING OF AN 8'x 4'x 3/4" FIRE-RETARDANT PLYWOOD PANEL OR AN 8'x 4'x 3/4" TREATED PLYWOOD PANEL PAINTED WITH TWO COATS OF FIRE RETARDANT PAINT, WILL BE PLACED IN A TELECOMMUNICATIONS CLOSET OR ROOM. THE MAIN DISTRIBUTION PANELS FOR TELEPHONE AND CATV SERVICES SHALL BE CONNECTED VERTICALLY TO OTHERS DISTRIBUTION CABINETS (EACH SERVING A MAXIMUM OF 16 UNITS) BY MEANS OF 2-4" Ø AND 2-2" Ø PVC CONDUITS
- 27- EACH CABINET OR PANEL SHALL ALSO PROVIDE FOR THE PROPER BONDING AND GROUNDING OF THE TELECOMMUNICATIONS FACILITIES WITH A GROUND BAR, GROUND WIRE AND CONNECTED TO A 8'-0" x 5/8" COPPER WELD GROUND ROD SYSTEM AND MUST COMPLY WITH THE CURRENT NATIONAL ELECTRIC CODE. THIS WILL BE A DEVELOPER RESPONSIBILITY.
- 28- ALL APARTMENTS SHALL BE CONNECTED TO EACH OF THEIR CORRESPONDING DISTRIBUTION CABINETS)TELEPHONE AND CATV) BY MEANS OF 1 - 1"Ø CONDUIT.
- 29- ENTRANCE FACILITIES FOR RESIDENTIAL BUILDINGS SHALL CONSIST OF A MINIMUM OF 2-4"Ø FOR TELEPHONE SERVICE AND 2-2" Ø PVC CONDUITS FOR CATV ERVICE. THE CONDUITS SHALL CONNECT THE MAIN DISTRIBUTION CABINETS AND THE DESIGNATED BUILDING TELECOMMUNICATIONNS POINT OF CONNECTION. WHEN A BUILDING'S TELECOMMUNICATIONS POINT OF CONNECTION IS A SPLICE BOX IT SHALL HAVE A MINIMUM SIZE OF $7'-0" \times 4'-6" \times 4'-0"$ AND MAY BE JOINTLY USED FOR TELEPHONE AND CATV SERVICES.
- 30- THE DEVELOPER IN COMPLIANCE WITH SECTION 19.04 OF THE PUERTO RICO PLANNING BOARD'S "REGLAMENTO DE LOTIFICACION Y URBANIZACION (REGLAMENTO DE PLANIFICACION 3) REVISADO" SHALL TRANSFER TO THE P.R. TELECOMMUNICATIONS REGULATORY BOARD (JRTPR), IN A COORDINATED MANNER AND BY MEANS OF A PUBLIC DEED, THE RIGHT OF WAY DEPICTED ON THESE DRAWINGS, REQUIRED TO PROVIDE TELECOMMUNICATIONS SERVICE (TELEPHONE AND CATV) TO
- 31- THE PUERTO RICO TELECOMMUNICATIONS REGULATOR BOARD (JRTPR) MAY ISSUE PARTIAL ENDORSEMENTS FOR SINGLE FAMILY RESIDENTIAL PROJECTS (SINGLE FAMILY HOME, ROW HOUSES, TOWNHOUSES, PATIO HOUSES, ETC. SO THAT THE DEVELOPER CAN DELIVER PORTIONS OF THE PROJECT AS THEY ARE COMPLETED. ONCE THE PROJECTED IS COMPLETED THE DEVELOPER SHALL COMPLY WITH THE PROCEDURE SPECIFIED IN SECTION 5.02.5 OF THE JRTPR'S "REGLAMENTO PARA ENDOSO DE SERVIDUMBRE E INFRAESTRUCTURA" RELATED TO FINAL ENDORSEMENTS.
- 32- THE DEVELOPER SHALL ALLOW TELECOMMUNICATIONS SERVICE PROVIDERS (TELEPHONE AND CATV), DULY AUTHORIZED BY THE JRTPR TO PROVIDE SAID SFRVICES TO INSTALL THEIR DISTRIBUTION FACILITIES IN COORDINATED AND ORDERLY IN THOSE PORTIONS OF THE PROJECT FOR WHICH A PARTIAL ENDORSEMENT HAS BEEN ISSUED.
- 33- THE DEVELOPER SHALL COORDINATE WITH TELECOMMUNICATIONS SERVICE PROVIDERS (TELEPHONE AND CATV) AND THE PUERTO RICO ELECTRICAL POWER AUTHORITY (PREPA) THE INSTALLATION OF RISER. THE CONNECTION OF CONDUIT OR THE ACCESS TO THEIR FACILITIES.
- 34- THE DEVELOPER SHALL COORDINATE WITH THE TELECOMMUNICATIONS SERVICE PROVIDERS (TELEPHONE AND CATV) AND WITH ANY OTHER PUBLIC OR
- PRIVATE ORGANIZATION WHOSE FACILITIES AFFECT THE CONSTRUCTION OF PROJECT. 35- THE DEVELOPER SHALL ASSIGN AN ENGINEER OR ARCHITECT TO INSPECT AND CERTIFY THAT THE CONSTRUCTION JOBS WERE PERFORMED AND COMPLETED AS THEBENDORSED DRAWINGS BY THE PUERTO RICO TELECOMMUNICATIONS REGULATORY BOARD (JRTPR). FOR THAT PROCESS WILL USED FORM JRTPR F-102 AND SUMMIT TO JRTPR AND OBTAIN THEIR APPROVAL BEFORE
- APPLY FOR THE PERMIT OF USE AT "ADMINISTRATION DE REGLAMENTOS & PERMISOS" (ARPE). 36— COMMERCIAL BUILDINGS WILL REQUIRE TWO (2) MAIN DISTRIBUTION CABINETS OR PANELS FOR TELEPHONE AND CATV SERVICES RESPECTIVELY. A TELECOMMUNICATION ROOM OR AREA WILL BE DESIGNATED TO PLACE THEM AND THEY MUST COMPLY WITH ONE OF THE SPECIFICATION
- a) TREATED WOOD PANEL 4"x 8' x 3/4" (DOUBLE COATED WITH WHITE FIRE RETARDANT PAINT)
- b) TELEPHONE METAL CABINET 36"x 24" x 6" (MIN) AND CATV 36"x 30"x 6". BOTH CABINET SHALL BE EQUIPPED WITH A 3/4" THICK TREATED PLYWOOD BACKBOARD, A HINGED DOOR WITH LATCH AND KEY, AND SHALL HAVE COMPLETE FRONTAL ACCESS.



GENERAL NOTES: (REQUIRED BY J.R.T.P.R.)

- 1- THE DEVELOPER OR ITS REPRESENTATIVES SHALL SUPPLY AND INSTALL ALL MATERIALS REQUIRED FOR THE TELECOMMUNICATIONS INFRASTRUCTURE INCLUDING BUT NOT LIMITED TO 1", 2" AND 4" DIAMETER CONDUITS SHOWN ON THE PRINTS.
- 2- THE 1"Ø CONDUIT SHALL BE PVC 40 RODDED WITH 1/8"Ø NYLON ROPE.
- 3- THE 2"Ø PVC CONDUIT (FOR CATV DISTRIBUTION FACILITIES) AND THE 4"Ø (FOR TELEPHONE DISTRIBUTION FACILITIES) SHALL BE INSTALLED IN THE TELECOMMUNICATIONS EASEMENT. THE 2"0 CONDUITS SHALL BE INSTALLED ON THE SIDEWALK SIDE OF THE TRENCH AND THE 4"Ø ON THE FARTHERMOST SIDE OF THE TRENCH FROM THE SIDEWALK (SEE EASEMENT CONDUIT INSTALLATION DETAIL).
- 4- THE 2"Ø AND 4"Ø CONDUITS SHALL BE SCH 40 (MINIMUM) RODDED WITH 1/4"Ø NYLON ROPE WITH A MINIMUM BREAKING STRENGTH OF 500 LBS. AND SHALL BE TESTED WITH 1-5/8" AND 3-5/8" MANDRELS RESPECTIVELY.
- 5- ALL CONDUIT ENDS SHALL BE CAPPED WITH PVC END CAPS.
- 6- THE MINIMUM DEPTH OF THE CONDUITS PLACED ALONG THE EASEMENT AND SERVICE CONDUITS TO EACH RESIDENCE SHALL BE:

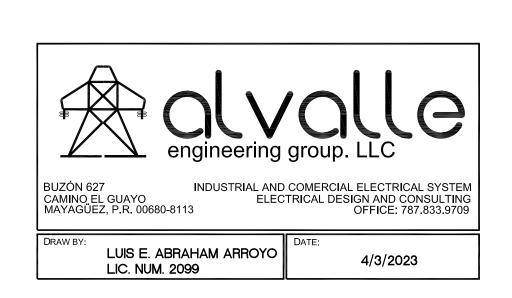
a) 1"ø CONDUITS 14" BELOW GROUND LEVEL.

18" BELOW GROUND LEVEL. 24" BELOW GROUND LEVEL c) 4"ø CONDUITS

- 7- IN ORDER TO MAINTAIN THE PROPER FORMATION AND SEPARATION OF THE CONDUIT RUN, PLASTIC CONDUIT SPACERS SHALL BE INSTALLED EVERY SIX FEET OR AS SPECIFIED BY MANUFACTURER.
- 8- WHEN EXPOSED TO VEHICULAR TRAFFIC (HIGHWAY, STREET AND CARPORT CROSSINGS AND PARKING AREAS) CONDUITS SHALL BE INSTALLED AT A DEPTH BETWEEN 30" AND 36" MEASURED FROM THE SURFACE OF THE PAVEMENT AND SHALL BE ENCASED IN CONCRETE WITH A MINIMUM RESISTANCE OF 3,000 LBS. PER SQUARE INCH (3,000 PSI).
- 9- TRENCH BACKFILLING SHALL BE PERFORMED WITH SELECTED MATERIALS FREE OF LARGE STONES AND OTHER CONTAMINANTS SUCH AS SCRAPS OF WOOD, ASPHALT, CONCRETE PAVEMENT.FTC.BACKFILL SHALL BE COMPACTED TO 95% IN 6 INCH LAYERS BY MEANS OF A TAMPER, WITH THE FIRST 12 INCHES TAMPED USING LIGHTWEIGHT EQUIPMENT.
- 10- A SIX INCH WIDE ORANGE WARNING RIBBON (EQUAL OR SIMILAR TO TERRA TAPE $(\!R\!)$ 42-0007) SHALL BE INSTALLED AT A DEPTH OF 12" BELOW GROUND LEVEL ABOVE THE CONDUITS AND ALONG THE WHOLE CONDUIT RUN.
- 11- THE DEVELOPER OR ITS REPRESENTATIVES SHALL CLEARLY IDENTIFY ALL CONDUIT ENDS (INCLUDING BUT NOT LIMITED TO DISTRIBUTION POINTS, SERVICE CONDUITS) WHEN SPLICING OR DISTRIBUTION BOXES HAS NOT BE SPECIFIED OR RECOMMENDED. SEE
- 12- THE 2"Ø AND 4Ø CONDUIT BENDS SHALL NOT BE LESS THAN 90° AND SHALL HAVE A MINIMUM RADIUS OF 36".ALL CONDUITS SHALL BE LIMITED TO TWO 90° SWEEPING BENDS
- 13- GENERALLY DISTRIBUTION BOXES WILL 3'-0" X 3'-0" X 3'-0",4'-0" X 4'-0" X 4'-0" AS WELL AS 6'-0" X 4'-0" X 4'-0" AND / OR 7'-0" X 4'-6" X 4'-0" SPLICE BOXES SHALL BE PLACED FOR TELECOMMUNICATIONS SERVICES (TELEPHONE FACILITIES) AS INDICATED ON PRINTS.
- 14- DISTRIBUTION BOXES SHALL BE PLACED IN EASEMENT COINCIDING WITH THE DISTRIBUTION POINTS OF THE TELECOMMUNICATIONS FACILITIES. THESE BOXES AS WELL AS DISTRIBUTION POINTS SHALL BE LOCATED TWO FEED FROM THE PROPERTY LINE BETWEEN LOTS SO AS NOT TO INTERFERE WITH ANY ENTRANCE (CARPORT OR

15- DISTRIBUTION BOXES AND SPLICE BOXES SHALL BE:

- a) PREFABRICATED WITH STEEL REINFORCED CONCRETE (EQUAL OR SIMILAR TO POWER POLES INC.)
- b) CAST IN PLACE WITH STEEL REINFORCED CONCRETE.
- c) PREFABRICATED WITH POLYMER CONCRETE BOX EQUAL OR SIMILAR TO (QUQUAZITE®) 17"x 30"x 18" (MAXIMUM SIZE ALLOWED) ONLY WILL BE ACCEPTED FOR CABLE TV APPLICATION IN AREAS WITH SPACE PROBLEM.
- NOTE: ANY CHANGE IN THE TYPE OF BOXES TO BE USED WILL REQUIRE THE APPROVAL OF JRTPR BEFORE THEIR INSTALLATION.
- 16- ALL CONDUITS, WHETHER OR NOT IN USE, SHALL BE SEALED IN DISTRIBUTION BOXES,
- SPLICE BOXES, AND BUILDINGS TELECOMMUNICATION CABINET USING A DUCT SEALER (EQUAL OR SIMILAR TO 3M® 4414 DUCT SEALING KIT).
- 17-2"Ø CONDUITS FOR CABLE TELEVISION (CATV) DISTRIBUTIONS FACILITIES IN RESIDENTIAL PROJECTS, OF SINGLE FAMILY UNIT HOMES, ROW HOUSES, PATIO HOUSES ETC.) SHALL NOT WELL AS THE 1"0 CONDUITS FOR CATV SERVICE DROPS, SHALL BE END CAPPED AND LEFT AT CATV DISTRIBUTION POINTS LOCATED IN THE PLANTING STRIP (GENERALLY NEXT TO LIGHT POSTS)AS INDICATED ON PRINTS.
- 18- THE EXTERIOR METALLIC BOXES (4" X 4" X 2-1/8") (MINIMUM),FOR TELECOMMUNICATIONS SERVICES DROPS (TELEPHONE AND CATV), SHALL BE INSTALLED ON ONE OF THE LIVING UNITS WALLS CONVENIENTLY LOCATED SO AS TO PROVIDE EASY
- 19- THE CONDUIT, THROUGH WHITCH THE GROUND WIRE FOR THE EXTERIOR SERVICE DROP METALLIC BOXES SHALL BE INSTALLED, SHALL COME OUT FROM THE LIVING UNIT WALL AT A DEPTH OF SIX INCHES BELOW GROUND LEVEL.
- 20- THE TELECOMMUNICATIONS SERVICE DROPS ELECTRICAL GROUNDING WILL BE ACHIEVED WITH THE NECESSARY $8'-0" \times 5/8"$ COPPER WELDED GROUND RODS INSTALLED BY THE TELECOMMUNICATIONS SERVICE PROVIDER AND MUST COMPLY WITH THE CURRENT
- 21— ALL TELECOMMUNICATIONS SYSTEMS (TELEPHONE AND CATV) SHALL BE BONDED AND GROUNDED AT ALL POINTS AND MUST COMPLY WITH THE CURRENT NATIONAL
- 22-NO MORE THAN TWO 90° BENDS SHALL BE ALLOWED IN THE CONDUITS CONNECTING THE EXTERIOR METALLIC BOXES FOR SERVICE DROP AND THE INTERIOR SERVICE BOXES.



JRT-2023-

NATIONAL ELECTRIC CODE.

TELECOMUNICACIONES DE PARTICIONES DE	
# 10 P P P P P P P P P P P P P P P P P P	

REGLAMENTOS APLICABLES.

Junta Reglamentadora de Telecomunicaciones de Puerto Rico

IDOSO DE PLANOS DE FACILIDADES Y/O SERVIDUMBRE DE TELECOMUNICACIONES Y TELEVISIÓN POR CABLE

REVISADO POR:	FECHA
RECOMENDADO POR:	FECHA
APROBADO POR:	FECHA

ESTE ENDOSO NO EXIME AL COSTRUCTOR Y AL DESARROLLADOR DE CUMPLIR CON LOS REQUERIMIENTOS DE CONSTRUCCION, CONFORME A TODAS LAS DISPOSICIONES DE LOS

JUNE 2023

CONSULTANT

MUM

UNDERGROU

EXISTING TELECOMUNICATION SYSTEM

CONDUIT INSTALLATION PROCEDURES

THE STRUCTURE.

II. CONDUITS INSTALLATION

I.EXCAVATION

- 1. At start of construction verify the center line of the
- Test Holes Uncover and expose all known conflicts
- Subject to federal, state, or local requirements, the
 - a) Under driveways
 - b) Under sidewalks
- 4. The total depth of the trench should be indicated on the
- The trench bed should have a slight drop in grade from a
 - Flat Terrain From the center of the section toward each manhole.

c) Off the traveled part of highways, streets,

- Rolling Terrain From the center of the section toward each manhole.
- 6. The side walls of excavations, which craftsman must
 - a) Solid rock
 - Side walls cut to an angle which leaves a rise of In the case of manhole excavations,

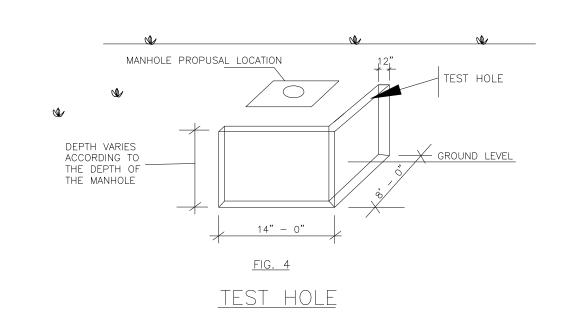
Note:

- Having the excavation made a few inches deeper
- Having sand or crushed stone dropped in the
- Having a craftsman stand beside the
- 7. Protection while Installing Shoring. Special provisions
- The timber used to support the side walls of excavations
- Grade and level the trench bed to avoid abrupt changes.
- 10. When the trench bottom contains water or is of an
- 11. In areas where the water table is above the bottom of the
- 12. In paved areas, the surface should be carefully cut
- 13. The Occupational Safety and Health Act (OSHA) requires
- 14. Trenches less than 5 feet deep should be shored if they

TRENCH		UPRIG	HTS		CROSS BRACES FOR TRENCH WITDTH UP TO:			
DEPTH (FT)	SOIL*	SIZE	SPACING (FT)	STRIGEREST	6 FT	9 FT	12 FT	15 FT
	А	3 X 4 OR 2 X 6	6	NONE	4 1/ 4	4 × 6	6 X 6	6 V 9
5 TO 10	В		3	4 X 6	4 X 4	4 X 6		6 X 8
	С		TIGHT	4 X 6	4 X 6	6 X 6	6 X 8	8 X 8
	D		TIGHT	6 X 8	4 7 0			
10 TO 15	А	3 X 4 OR 2 X 6 3 X 6	4	4 X 6	4 X 6	6 V 6	C > 0	0 V 10
	В		2	4 X 6	4	6 X 6	6 X 8	8 X 10
	С		TIGHT 4 X 6	6 7 6	6 6 7 8	8 X 8	0 V 10	
	D		TIGHT	8 X 10	6 X 6	6 X 8	8	8 X 10
15 TO 20	ALL	3 X 6	TIGHT	4 X 12	6 X 8	8 X 8	8 X 10	10 X 10
> 20	ALL	3 X 6	TIGHT	6 X 8	6 X 8	8 X 10	10 X 10	10 X 12

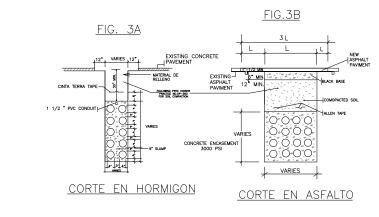
* SOIL TYPE OR CONDITION:

- A HARD , COMPACT B - LIKELY TO CRACK
- C SOFT, SANDY OR FILLED
- D HYDROSTATIC PREASSURE
- * STRINGER SPACING = 4 FT
- * CROSS BRACES SPACED 4 FT VERTICALLY, 6 FT HORIZONTALLY.TRENCH JACKS MAY BE USED IN LIEU OF, OR IN COMBINATION WITH, CROSS BRACES.



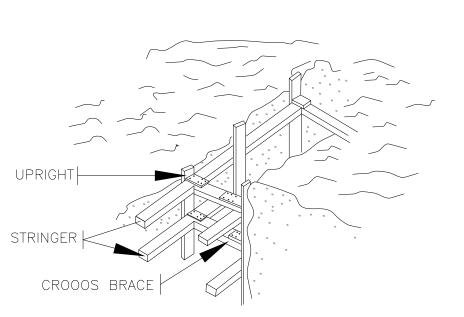
LOS CORTES EN PAVIMENTO DE HORMIGON SERAN CON MAQUINA DE SIERRA CIRCULAR Y EL ANCHO MINIMO 12" A AMBOS EXTREMOS DE LA TRINCHERA Y/O SEGUN LO ESPECIFIQUE DEL DEPARTAMENTO DE OBRAS PUBLICAS. (VEA FIG 3A)

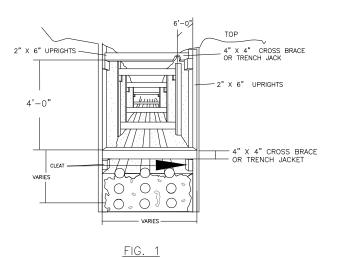
LOS CORTES EN PAVIMENTO DE ASFALTO SERAN HECHOS DE TAL FORMA QUE NO AFECTE LA ESTETICA DEL PAVIMENTO. LA REPOSICION DEL ASFALTO SERA A BASE DEL SIGUIENTE DETALLE TIPICO, PERO NUNCA SE RE-PAVIMENTARA UN ANCHO MENOR DE TRES (3) VECES EL ANCHO DE LA CORRRIDA DE CONDUCTO. (VER FIG. 3B)



NOTES:

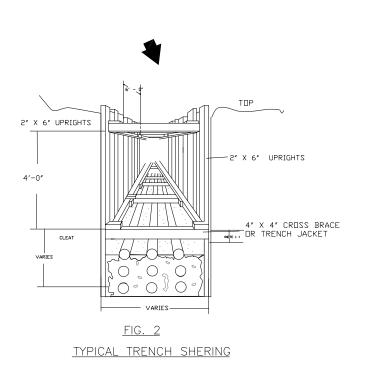
- 1. LEAVE 4 IN TO 6 IN WORKING SPACE BETWEEN BRACE AND CONDUIT.
- 2. WHERE STRINGERS ARE NOT REQUIRED (SEE



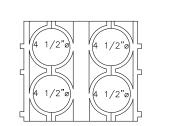


TYPICAL TRENCH SHERING

PARTIAL STAKED



FULL STAKED



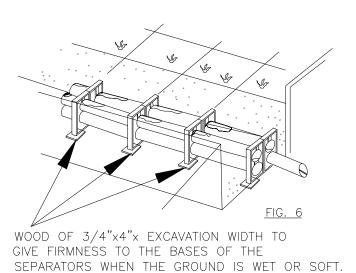
<u>FIG. 5</u> CONDUIT INSTALLATION DETAIL 1. B PLASTIC CONDUIT IS A 4"(1D). SINGLE DUCT-TYPE CONDUIT INTENDED FOR USE IN SINGLE OR MULTIPLE DUCT CONSTRUCTION, AND IS ALWAYS ENCASED IN CONCRETE. IT CAN ALSO BE USED IN STRUCTURES SUCH AS

BRIDGES, VIADUCTS, ETC, WHERE IT CAN BE CAST IN THE CONCRETE OF

- 2. AT MANHOLE AND CABLE VAULT ENTRANCES, REGARDLESS OF THE DUCT ARRANGEMENT IN THE TRENCH, THE SEPARATION BETWEEN DUCT BOTH HORIZONTALLY AND VERTICALLY SHOULD BE APPROXIMATELY 2". THESE SEPARATION CAN BE OBTAINED WITH COMMERCIALLY AVAILABLE PLASTIC SPACERS, PLASTIC STRIPS, OR BRICKS PLACED BETWEEN THE DUCTS.
- 3. LENGTH SHORTER HAN 5' SHOULD NOT BE USED AT MANHOLES OR CABLE VAULT ENTRANCES. FULL LENGTH PIECES ARE USED FOR THE BALANCE
- 4. THE BASE SPACER SHOULD BE SPACED ALONG THE TRENCH BOTTOM AT NOT MORE THAN 5' ON CENTER. SET THE FIRST TIER OF DUCTS INTO THE SPACER GROVES, THEN A TIER OF INTERMEDIATE SPACERS, THEN THE SECOND TIER OF DUCTS, ETC. AND FINALLY THE SPACER OVER THE TOP TIER, MAKING CERTAIN TAHT EACH TIER IF THE FORMATION WILL EXCEED 10 TIERS, PLACE APPROXIMATELY ONE HALF TOTAL NUMBER OF TIERS BUT NO MORE THAT 1 SO THAT THE CONCRETE CAN BE POURED IN SUCCESSIVE STAGES.
- 5. WHERE THE FORMATION WILL BE MORE THAN 4 DUCTS WIDE, IT WILL BE PREFERABLE TO SLIGHTLY OFFSET GROUPS OF 4 UNIT SPACERS IN THE SAME TIEFOR EASE OF INSTALLATION.
- 6. THE STAKES USED TO PROVIDE SEPARATION BETWEEN THE COLUMNS AND THE TRENCH WALLS SHOULD HAVE A PROVISION FOR BEING TIED TOGETHER TO PREVENT DUCTFLOTATION DURING THE CONCRETE POURING, AND TO PROVIDE A REFERENCEMARK FOR CONCRETE CAPPING OF THE DUCT STRUCTURE.

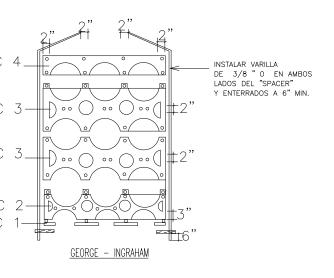
*CARLON SPACER (FIG. 5): AVAILABLE FROM THE CARL ON PRODUCTS DIV. WILTON, CONN. THE SPACERS ARE AVAILABLE IN SINGLE UNITS. THEY ARE ARRANGED FOR PERMANENT HORIZONTAL AND VERTICAL LOCKING.

*FORMEX SPACERS: AVAILABLE FROM THE FORMEX MFG. CO., SANTA MONICA, CALIF. THESE SPACERS ARE AVAILABLE IN 2,3, OR 4 UNITS WIDE. THEY ARE ARRANGED FOR PERMANENT VERTICAL LOCKING: VERTICAL HOLES RUNNING THROUGH EACH END PERMIT STAKING WITH REINFORCING BARS AT CORNERS, GRADE CHANGES, ETC.



DETAIL OF INSTALLATION OF SPACERS IN IN CONDUITS TO BE INSTALLED

NOTE: ALL CONDUIT BEAMS WILL HAVE THE SPACERS AND THEY WILL BE INSTALLED 5'-0" AWAY



INTERLOCKING MODULE SPACERS

<u>FIG. 7</u> TEST HOLE INTERLOCKING MODULE SPACERS DESIGNED FOR ENCASEMENT OR DIRECT BURIAL OF ALL TYPES OF DUCT. MADE OF HIGHT DENSITY POLIYETHYLENE WITH AND INTERLOCKING DESIGN. UNAFFECTED BY TEMPERATURE EXTREMES AND VIRTUALLY UNBREAKABLE.

	FOR PLASTIC	DUCT (2" SEPAR	RATION)
DUCT SIZE	2 — WAY SPACER	3 — WAY SPACER	4 — WAY SPACER
2"	0976-20	0976-30	0976-40
3"	0977-20	0977-30	0977-40
3 1/2"	0978-20	0978-30	0978-40
4"	0979-20	0979-30	0979-40
5"	0980-20	0980-30	0980-40
6"	0981-20	0981-30	0981-40

<u>CURVES</u>

INDIVIDUAL PARTS FOR INTERLOCKING MODULE SPACERS

C1. BASE PADS (USE THE NUMBER 21, 31, OR 41 AFTER PART NO. DASH) C2. BASE SPACER (USE THE NUMBER 22, 32 OR 42 AFTER DASH) C3. INTERMEDIATE MODULE (USE THE NUMBER 23, 33, OR 43) C4. MODULE CAP (USE THE NUMBER 24, 34, OR 44 AFTER DASH)

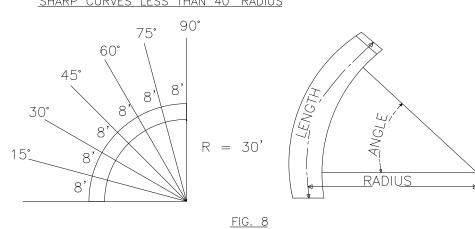
AT 80' OR SMALLER RADIUS BENDS AND AT 20% (11.3°) OR GREATER GRADE CHANGES, PERMANENT PLASTIC SPACERS ARE REQUIRED SO AS TO OBTAIN A MINIMUM HORIZONTAL AND VERTICAL SEPARATION OF 1" BETWEEN ADJACENT DUCTS. THE SPACERS SHOULD BE LOCATED ON NOT MORE THAN 8-FOOT CENTERS WHEN FORMEX SPACERS ARE USED, 3/8 STEEL REINFORCING BARS SHOULD BE SET THROUGH THE VERTICAL HOLES IN THE BASE AND FIRST INTERMEDIATE SECTIONS. ADDITIONAL PERMANENT INTERMEDIATE AND TOP SECTIONS ARE THEN SLIPPED DOWN ON THE REINFORCING BARS AS NECESARY IN BUILDING UP THE DUCT FORMATION. THE RODS SHOULD BE DRIVEN ABOUT 6 TO 12" INTO THE GROUND. THE TOP OF THE ROD SHOULD BE BENT ABOVE THE TOP SPACER IN TOWARD THE CENTER OF STRUCTURE. WITH OTHER TYPE SPACERS HAVING NO VERTICAL HOLES, SET THE REINFORCING BARS AND LASH THEM TO THE SPACERS TO PREVENT DUCT FLOTATION. (FIG. 6&7).

DUCT JOINTS IN THESE SECTIONS SHOULD BE MADE OUT OF THE TRENCH (SO THAT THE ENTIRE BEND SECTION CAN BE DROPPED IN PLACE INTO THE TRENCH) AT LEAST TWO HOURS BEFORE PLACING, TO HELP ENSURE AN EFFECTIVE JOINT.

OPEN CURVES OVER 40' RADIUS

STRAIGHT PVC CONDUITS WILL BE USED TO FORM THE OPEN CURVES. WHEN THEY ARE LOCATED IN THE TRENCH WITH NO LESS THAN 40' RADIUS AND THE SPACERS EVERY 8'-0" ARE PROPERLY ANCHORED WITH STEEL RODS ..

SHARP CURVES LESS THAN 40' RADIUS



SAMPLE:

6 BENDS OF 4"ø PVC 15-30R (8' LONG EACH) WILL COMPLETE THE 90° BEND ILLUSTRATED

*ONLY PRE-FABRICATED CURVES WILL BE USED AS INDICATED BY THE ENGINEERING DEPARTMENT.

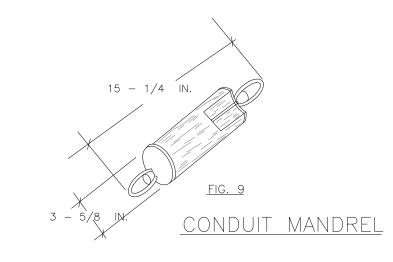
NOTES: 1- TO ENGINEERING AND CONSTRUCTOR: THE DIMENSIONS SHOWN ARE NOT TO SCALE. THE DETAILS ARE FOR ILLUSTRATIVE PURPOSES.

2- TO CONSTRUCTOR: LOG SIZES AND DETAILS ARE INCLUDED FOR ILLUSTRATIVE PURPOSES. FINAL SIZES MUST FOLLOW THE OFFICIAL TABLES.

PVC SPLIT BEN DS & SWEEPS

11 1/4 3' 7.00 3103 11 1/4 6' 14.00 3106 22 1/2 3' 14.00 3203 22 1/2 6' 26.00 3206 30 3' 19.00 3303 30 6' 36.00 3306 30 9' 57.00 3308 30 12' 74.00 3312 45 3' 26.00 3403 45 6' 56.00 3406 45 9' 85.00 3409 64 3' 40.00 3603 90 3' 54.00 3903	ANGLE (A)	RADIUS (R)	SEGMENT LENGTH (L (IN) INCHES)
11 1/4 6' 14.00 3106 22 1/2 3' 14.00 3203 22 1/2 6' 26.00 3206 30 3' 19.00 3303 30 6' 36.00 3306 30 9' 57.00 3308 30 12' 74.00 3312 45 3' 26.00 3403 45 6' 56.00 3406 45 9' 85.00 3409 64 3' 40.00 3603	11 1/4	3'	7.00	3103
22 1/2 3' 14.00 3203 22 1/2 6' 26.00 3206 30 3' 19.00 3303 30 6' 36.00 3306 30 9' 57.00 3308 30 12' 74.00 3312 45 3' 26.00 3403 45 6' 56.00 3406 45 9' 85.00 3409 64 3' 40.00 3603	•			
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30 12' 74.00 3312 45 3' 26.00 3403 45 6' 56.00 3406 45 9' 85.00 3409 64 3' 40.00 3603	.30	9'	57.00	
45 3' 26.00 3403 45 6' 56.00 3406 45 9' 85.00 3409 64 3' 40.00 3603		12'	74.00	
45 6' 56.00 3406 45 9' 85.00 3409 64 3' 40.00 3603	45	3'	26.00	
45 9' 85.00 3409 64 3' 40.00 3603	45	6'	56.00	
	45	9'	85.00	
90 3' 54.00 3903	64	3'	40.00	3603
	90	3'	54.00	3903
90 6' 113.00 3906	90	6'	113.00	3906
E 90 3' SCH. 40 POLE 3943	E 90	3'	SCH. 40 POLE ELBOW	
E 64 SCH. 40 3943	E 64		SCH. 40	3943
HOLDING CLIPS FURNISHED HOLDING CLIPS - BOUGHT SEPARATELY 1500			LY	1500

III. TEST WITH MANDREI

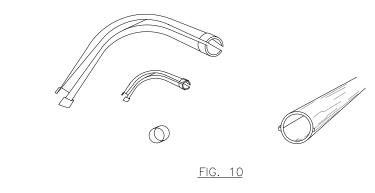


TESTS WITH MANDREL

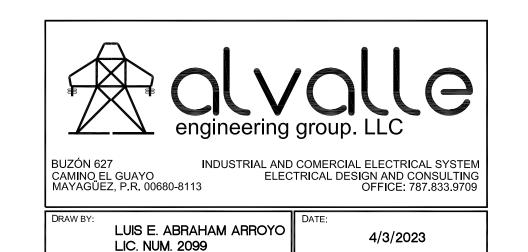
AFTER COMPACTING, BUT PRIOR TO ASPHALT, ALL CONDUIT SHALL BE MANDREL TESTED AS FOLLOWS. 15-1/4" LONG x 3-5/8"ø MANDREL, IT WILL BE USED TO TEST TEST ALL LINEAR CONDUITS AND/OR CURVES WITH A 15' RADIUS. 6" LONG x 3-5/8"ø MANDREL, NOT TO BE USED FOR CONDUIT TESTING EXCEPT TO VERIFY 90-36"R VERTICAL CURVE ON RISERS. IN EXISTING BEAMS: (RELATED TO THE PROJECT)

ALL VACANT CONDUITS WILL BE TESTED WITH THE APPROPRIATE MANDREL, BEFORE STARTING ANY CONSTRUCTION.





1. TO REPAIR SECTIONS OF CONDUITS WITH EXISTING CABLE, THIS OPEN TUBE METHOD WILL BE USED. (AVAILABLE BY GEORGE-INGRAHAM CORP.)



JRT-2023-



REGLAMENTOS APLICABLES.

Junta Reglamentadora de Telecomunicaciones de Puerto Rico ENDOSO DE PLANOS DE FACILIDADES Y/O SERVIDUMBRE

REVISADO POR:

ESTE ENDOSO NO EXIME AL COSTRUCTOR Y AL DESARROLLADOR DE CUMPLIR CON LOS

REQUERIMIENTOS DE CONSTRUCCION, CONFORME A TODAS LAS DISPOSICIONES DE LOS

CONSULTANT

MOM

EXISTING TELECOMUNICATION SYSTEM

PROJECT STREETS IMPROVEMENTS **BOSQUE STREET & LIC. RAMIREZ SILVA STREET EXISTING CONDITIONS - ELECTRICAL SITE**

PROCEDURES FOR SOIL COMPACTION AND SEALING CONDUITS

USE OF DUCT SEALING COMPOUND P.R. #851

THE SEALING COMPOUND P.R. 851 IS A SPLIT URETHANE FOAM WHICH, WHICH, WHEN MIXED FOR A PERIOD OF 30 SECONDS, WILL EXPAND 15 TIMES ITS VOLUME TO FORM A DENSE. STRONG FOAM WITH A DENSITY OF 3 TO 4 POUNDS PER CUBIC FOOT.

II. ACCESSORIES

THE FOLLOWING ARTICLES ARE THOSE NEEDED TO SEAL CONDUITS, WITH THE COMPOUND P.R. 851.

- a. PAPER TOWEL OR PIECE OF CLOTH.
- b. PLACTIC GLOVES
- c. A PIECE OF 3/8" FLEXIBLE PLASTIC TUBING. d. ROD TO ACCOMMODATE THE PAPER TOWEL OR THE CLOTH IN THE DUCT. e. 6"x6" SPONGE RUBBER.

II. CONDUCTS

- a. THE SURFACE WHERE THE PRODUCT IS GOING TO BE APPLIED MUST BE COMPLETELY CLEAN AND FREE OF ANY MATERIAL SUCH AS MUD, GREASE, PARAFFIN, ETC... BOTH FROM THE DUCT AND THE CABLE.
- b. LIFT THE CABLE IF IT IS ATTACHED TO THE LOWER PART OF THE CONDUIT, PUT A PAPER TOWEL ON A PIECE OF CLOTH ABOUT 6" IN THE CONDUIT. USE THE ROD THAT COMES WITH THE PRODUCT FOR THIS PURPOSE THIS WAY, THE CONDUIT IS READY TO PUT THE COMPOUND.
- c. PLACE A PIECE OF RUBBER 6"X6" OR A PIECE OF CARDBOARD OF THE SAME DIMENSION TO BLOCK THE DUCT.
- d. MIX COMPOUND P.R. 851, MAKE A HOLE OR CUT IN THE 6"x6" PIECE OF RUBBER OR CARDBOARD THAT WAS PLACED TO BLOCK THE CONDUIT. INJECT THE COMPOUND THROUGH THE HOLE OR CUT.
- e. THE EXPANSION PROCESS OF THE COMPOUND BEGINS AS SOON AS IT IS APPLIED. HOLD THE RUBBER OR CARDBOARD FIRMLY TO BLOCK THE DUCT UNTIL THE EXPANSION PROCESS IS COMPLETED.
- f. REMOVE THE MATERIAL USED TO BLOCK THE CONDUIT ENTRANCE.

2. VACANT DUCTS

- a. THE SURFACE WHERE THE PRODUCT WILL BE APPLIED.
- b. CUT A SQUARE PIECE OF CARDBOARD TO USE TO BLOCK THE DUCT. THE PIECE OF CARDBOARD SHOULD BE AT LEAST ONE INCH LONGER THAN THE HOLE IN THE CONDUIT.
- c. MIX THE COMPOUND AND APPLY BEHIND THE CARTON UNTIL THE COMPOUND FINISHES ITS EXPANSION.
- d. TIGHTEN THE CARDBOARD THAT BLOCKS THE ENTRY TO THE DUCT UNTIL THE COMPOUND FINISHES ITS EXPANSION.
- e. THE EXPANSION PROCESS TAKES FROM 2 TO 3 MINUTES. THEN REMOVE THE CARTON AND THE DUCT WILL BE SEALED.

3. SEALED CONDUITS

- a. DUCTS SEALED WITH CEMENT OR PUTTY AND THAT ARE LEAKING WATER CAN BE REMOVED OR SEALED AGAIN WITH P.R. COMPOUND 851.
- b. TO SEAL A DUCT THAT IS LEAKING WATER, DRILL A 1/2" HOLE IN THE TOP OF THE SEALED DUCT.
- NOTE: WHENEVER POSSIBLE AND ESPECIALLY WHEN SEALING A DUCT THAT HAS A WATER FLOW, WAIT UNTIL THE COMPOUND BEGINS
- c. LEAVE THE COMPOUND STUCK ON THE PLACE YOU ARE APPLYING IT UNTIL THE COMPOUND STOPS EXPANDING; THIS IS, 2 TO 3 MINUTES. REMOVE THE CYLINDER AND CUT THE PLASTIC TUBE AT THE LEVEL OF THE SEAL.

4. CONDUITS OCCUPIED WITH WATER FLOW

- a. PUT AN 8"X3/8" SECTION OF FLEX CABLE IN CONDUIT ON THE CABLE SIDE. PUT A PAPER TOWEL OR CLOTH AROUND THE CABLE TO STOP THE FLOW OF THE WATER.
- b. CUT ABOUT 1/2" FROM THE TIP OF THE PLASTIC TUBE PROVIDED WITH THE COMPOUND AND INSERT THE 1/2" PLASTIC TUBE INTO THE 3/8" FLEX TUBE.
- c. MIX THE COMPOUND P.R. 851, SCREW ON THE PLASTIC TUBE, WAIT UNTIL THE COMPOUND BEGINS TO ACTIVATE AND THEN APPLY. LEAVE CYLINDER IN PLACE UNTIL COMPOUND FINISHES EXPANDING, SNAP OFF PIECE OF FLEXIBLE TUBE PROJECTING FROM SEAL.

SOIL COMPACTION PROCEDURES

- I. MATERIALS FOR FILLING-ALL MATERIAL TO BE USED AS FILLING SHALL BE FREE OF CONTAMINANTS SUCH AS WOOD, PAVEMENT, ASPHALT, CONSTRUCTION RUBBLE, ETC.
- IN CONTACT WITH THE GROUND. b. CHOPPED STONE- WILL BE USED AS FILLER IN TRENCHES FOR CONDUIT BEAMS

a. SAND- THIS MATERIAL WILL BE USED MAINLY TO FILL BURIED CABLES DIRECTLY

- OR TELEPHONE REGISTERS CONSTRUCTIONS. ITS SIZE WILL VARY BETWEEN 1/4" (MINIMUM) TO 1" (MAXIMUM). c. MOGOLLA- WILL BE USED IN TRENCHES FOR CONDUIT BEAMS AND MANHOLE
- CONSTRUCTIONS. THE SIZE OF THIS MATERIAL WILL NOT BE GREATER THAN 2". d. SELECT MATERIAL- WILL BE USED AS FILLER IN CONDUIT JOISTS AND TELEPHONE
- REGISTERS OR IN PLACES NOT EXPOSED TO EXCESSIVE LOADS. SUCH AS SECONDARY STREETS, BACKYARDS, WALKS, ETC...
- WHEN IT IS USED ON MAIN ROADS, PRIOR AUTHORIZATION WILL BE REQUESTED FROM THE INSPECTOR OF THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS (DTOP). THE CONTRACTOR WILL MANAGE SUCH AUTHORIZATION WHEN THE ESTIMATE FOR AUCTION OF THE AFFECTED PROJECT IS PREPARED.
- e. MATERIAL EXTRACTED FROM THE EXCAVATION— THIS MATERIAL WILL BE USED AS FILLING ONLY WHEN IT COMPLIES WITH SUBSECTION (A), (B), (C) OR (D). IN SUCH SUCH CASE, A PRIOR PERMIT SIGNED BY THE INSPECTOR OR REPRESENTATIVE OF THE BUILDING DEPARTMENT WILL BE NECESSARY. IN THE CASES IN WHICH A MATERIAL EXTRACTED FROM AN EXCAVATION MEETS THE REQUIREMENTS FOR ITS RE-USE. BUT IT RECEIVES THE EFFECTS OF RAIN WILL NOT BE USED, EXCEPT IN CASES (A) OR (B).
- f. BELOW WE INCLUDE TABLES INDICATING THE SPECIFICATIONS OF THE MATERIAL AS FILLER AND THE MANUAL TESTS TO IDENTIFY FINE SOILS.

SCHEDULE NUMBER 1 — LIMITS OF SIZES OF MATERIALS IN SOILS

MATERIAL	TYPE	SIZE (MM-INCHES)	% MATERIAL
GRAVEL AND STONES	* COHESIVE	OLDER THAN 4.75 (.18)	≥ 25
SANS	* COHESIVE	OLTHER THAN 0.075 (.003) AND MINORS DE 4.75 (.18)	≥ 25
SILTS AND CLAY	NO - COHESIVE	MINORS OF 0.075 (.003)	≤ 50

* COHESIVE MATERIAL- IS THAT MATERIAL THAT HAS THE ABILITY TO ATTRACT ITS PARTICLES BETWEEN THEM.MATERIAL COHESIVO — ES AQUEL MATERIAL QUE POSEE LA HABILIDAD

<u>II MANUAL TESTS</u>

SCHEDULE NUMBER 2 - MANUAL TESTS FOR IDENTIFICATIONS OF FINE SOILS

TYPICAL NAMES	DRY STRENGTH (1)	DILATATION (2)	PLASTICITY (3)	SEWER SYSTEM
SILTY SANDS	NONE OR VERY LOW	FAST	WEAK	POOR
SLIMS	VERY LOW	FAST	WEAK	POOR
CLAY SILTS	LOW - MEDIUM	FAST - SLOW	MEDIUM	POOR
CLAY SAND	LOW - HIGH	LOW - NONE	MEDIUM	POOR
SILTY CLAYS	MEDIUM - HIGH	LOW - NONE	MEDIUM	RAINCOAT
CLAYS	HIGH – VERY HIGH	NONE	STUBBORN	RAINCOAT
ORGANIC SLIME	LOW - MEDIUM	SLOW	WEAK	POOR
ORGANIC CLAYS	MEDIUM - VERY HIGH	NONE	STUBBORN	POOR

- (1) DRY STRENGTH TAKE A SMALL PORTION OF THE SOIL TO SHAPE AND ALLOW TO AIR DRY. BREAK IT AND TAKE A 1/8" FRAGMENT WHICH YOU WILL SQUEEZE BETWEEN YOUR INDEX FINGER AND THUMB. THE EFFORT REQUIRED TO BREAK THE FRAGMENTS IS PROVIDED BY THE BASE FOR IDENTIFICATION. CLAYS BREAK WITH GREATER EFFORT THAN SILTS.
- (2) DILATION- TAKE A SMALL SAMPLE OF SOIL AND MIX IT WITH WATER IN THE PALM OF YOUR HAND UNTIL A VERY SOFT CONSISTENCY IS OBTAINED. TAP THE BACK OF YOUR HAND AND LOOK AT THE FLOOR SURFACE. IF THE WATER IS SILTY. IF THE SOIL SAMPLE IS DEFORMED AT SOME MOMENTS AND THE WATER FLOWS BACK INTO THE SOIL, LEAVING A MATTE APPEARANCE ON THE SURFACE, THIS IS AN
- (3) PLASTICITY- IF A WET SOIL SAMPLE CAN BE MANIPULATED BETWEEN THE PALM OF THE HAND, THE FINGERS AND TURNED INTO A LONG 1/8" Ø THREAD WHICH SUPPORTS ITS WEIGHT WHEN TAKEN BY THE ENDS, THIS INDICATES THAT WE HAVE A HIGHLY PLASTIC CLAY, A SILT, ON THE CONTRARY, CAN RARELY BE CYLINDERED TO 1/8" WITHOUT CRACKING AND ALSO EXHIBIT SOME STRENGTH IN TENSION.

JII PLACEMENT OF THE FILLING MATERIAL

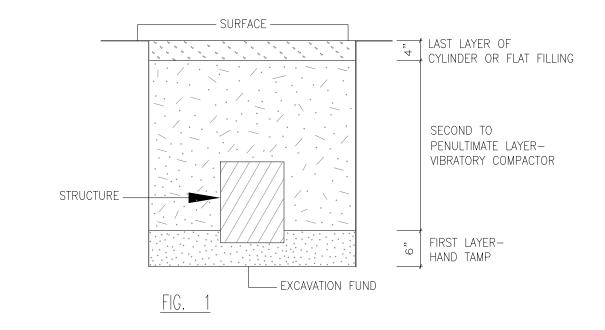
THE MATERIALS FOR FILLING WILL BE PLACED IN LAYERS THAT DO NOT EXCEED (6"). IN THE CASES OF TRINCEHERAS, THE MATERIAL WILL BE EMPTYED IN ACCORDANCE WITH THE PROVISIONS OF THE PERMIT GRANTED BY THE DEPARTMENT OF PUBLIC WORKS AND CURRENT CONTRACT.

IV COMPACTION EQUIPMENT

THE CONFIGURATION OF THE AREA TO BE FILLED IS THE FACTOR THAT WILL DICTATE THE STANDARD TO BE FOLLOWED REGARDING THE SELECTION OF THE EQUIPMENT TO BE USED IN THE COMPACTION OF A PARTICULAR AREA. FOR THE TYPES OF UNDERGROUND TELEPHONE CONSTRUCTIONS THE FOLLOWING INSTRUMENTS OR EQUIPMENT WILL BE USED.

- a. HAND OR PNEUMATIC PIZON- THIS INSTRUMENT WILL NORMALLY BE USED FOR THE COMPACTION OF TWO (2) FIRST LAYERS OF FILL.
- b. VIBRATORY COMPACTOR- WITH THIS TOOL, THE FILLING FROM THE THIRD TO THE PEN-LAST LAYER WILL BE COMPACTED.
- c. CYLINDER OR ROLLER- THIS EQUIPMENT WILL BE USED TO COMPACT THE LAST LAYER OF FILL. IT WILL BE OF THE VIBRATORY TYPE WITH THREE (3) TIRES.

AS INDICATED ABOVE, THE ORDER IN WHICH THE EQUIPMENT FOR COMPACTION IS PRESENTED IN a, b, c, WILL DEPEND ON THE EASE IN WHICH IT CAN BE USED. IN FIG. 2 THE ORDER IS PRESENTED THAT YOU SHOULD NORMALLY FOLLOW WHEN USING THE COMPACTION EQUIPMENT.



HOWEVER, THERE WILL BE SITUATIONS IN WHICH ONLY SOME OF THE EQUIPMENT PRESENTED HERE CAN BE USED AND THERE WILL BE OCCASION (SAND) WHERE WATER WILL BE USED AS A MEDIUM OF COMPACTION.

V MAXIMUM DENSITY

THE REQUIREMENT FOR ACCEPTANCE OF A COMPACTED SOIL WILL BE:

- a. ROADS, STREETS AND AVENUES- THE DENSITY TO BE REQUIRED WILL BE 85% OF THE MAXIMUM DENSITY OF THE FILLING MATERIAL, "STANDARD PROCTOR".
- b. UNDER REINFORCED FLOOR SLABS- THE MAXIMUM DENSITY TO BE REQUIRED SHALL BE 90% OF THE MAXIMUM DENSITY OF THE MATERIAL USED AS FILLING.
- c. OTHER AREAS- THE MAXIMUM DENSITY REQUIRED WILL BE 85% OF THE MAXIMUM DENSITY OF THE MATERIAL USED AS FILLING.

VI CONDITIONS AFFECTING COMPACTION

GREATIC LEVEL IN OR ABOVE THE BOTTOM OF THE EXCAVATION.

- 1. IN THOSE CASES IN WHICH AN INSTABILITY CONDITION IS PRESENT IN THE SOIL, (WATER OR ORGANIC, SILTY AND/OR CLAYY MATERIAL), THE INSTABILITY CONDITION WILL BE REMOVED AND A SOLID BASE WILL BE COLORED WITH CRUSHED STONE OR SAND PREVIOUSLY APPROVED BY THE DEPARTMENT. OF CONSTRUCTION.
- 2. SOME METHODS USED WITH THE PURPOSE OF CORRECTING EXCESS OF MOISTURE IN AREAS TO BE COMPACTED ARE AERATION, DRAINAGE, STRAINER POINTS, AMONG OTHERS. THE CONTRACTOR SUBMITS TO THE REPRESENTATIVE OF THE CONSTRUCTION DEPARTMENT THE PROCEDURE TO BE USED TO CORRECT ANY MOISTURE CONDITION PRIOR TO CARRYING OUT THE WORK.
- 3. AFTER THE INSTABILITY SITUATION IN THE GROUND HAS BEEN CORRECTED, THE SAME PROCEDURE AS INDICATED IN STEPS 1 TO 4 FOR THE LOW GREATIC LEVEL OF THE EXCAVATION WILL BE CORRECTED.

VII METHODS FOR MEASURE COMPACTION

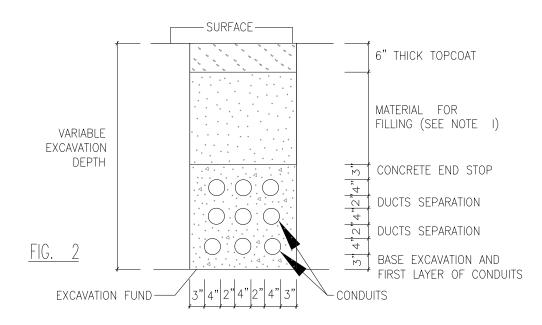
- 1. NUCLEAR METER INSTRUMENT USED TO DETERMINE THE MOISTURE CONTENT AND THE DENSITY OF THE FILLING OR SOIL IN THE WORK AREA.
- 2. WATER BALLOON AND "SPEEDMETER"- THROUGH THE USE OF THESE TWO INSTRUMENTS THE VALUES CAN BE OBTAINED TO DETERMINE THE DENSITY OF THE COMPACTED MATERIAL BY FORMULA.
- 3. "PROCTOR STANDARDS" TEST THIS TEST WAS DEVELOPED TO REPRODUCE IN THE LABORATORY, THE RESULTS THAT MAY BE OBTAINED USING COMMON EQUIPMENT FOR COMPACTION IN THE WORK AREA. THIS TEST IS DESIGNATED AS THE ASTM D-1557 OR ASSHO T-180 METHOD. IT WILL BE USED WHENEVER AN AGENCY OR ENTITY SPECIFIES IT SO IN ITS CONDITIONS DUE TO ITS CONCERN IN THE SUBJECT.

NOTE: IN ANY CASE, THE PROVISIONS OF PRACTICE OP-360 PREVAIL

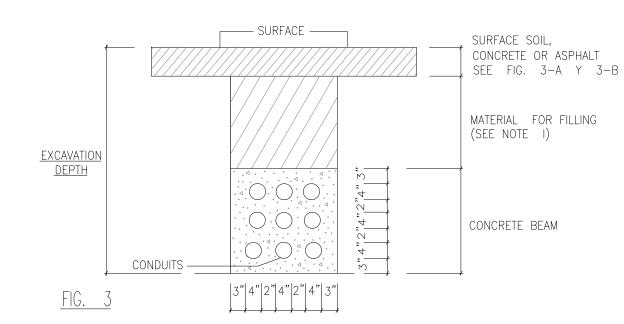
VIII PROCEDURES

A. EXCAVATIONS FOR CONDUITS.

EXCAVATIONS FOR IN CASES OF HORIZONTAL CURVES (RADIUS LESS OR EQUAL TO 80° OR VERTICAL CURVES (CHANGES OF LEVEL OF 20% OR MORE) THE CONDUITS WILL BE ENCLOSED IN A CONCRETE BEAM. WHEN THE CONCRETE HAS SUFFICIENT STRENGTH, IT WILL CONTINUE TO BE FILLED WITH FILLING MATERIAL UP TO 6" BELOW GRADE SURFACE. (SEE FIGURE 2)

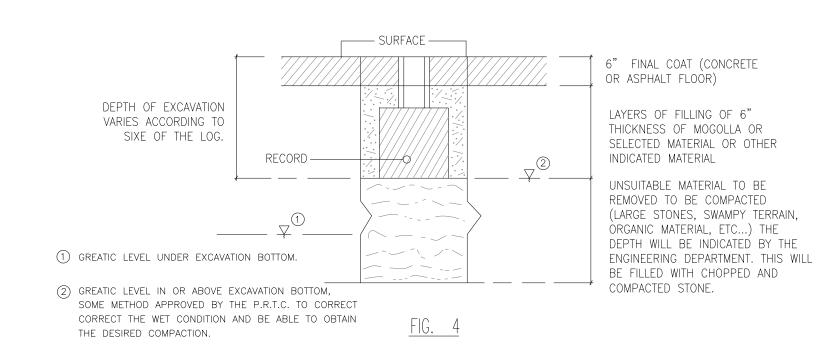


THE FINAL LAYER WILL BE SURFACE SOIL, CONCRETE OR ASPHALT, DEPENDING ON THE AREA WHERE THE PARTICULAR TRENCH IS LOCATED. A THREE-WHEEL CYLINDER OR ANOTHER TYPE OF EQUIPMENT APPROVED BY THE CORRESPONDING INSPECTOR WILL BE USED FOR COMPACTION.



B. EXCAVATIONS FOR RECORDS

- 1- MECHANICAL MEANS WILL BE USED FOR THE EXCAVATIONS OF CAST-IN-SITE OR PRE-CONSTRUCTED LOGS. THIS CUT WILL BE TAKEN TO THE END LEVEL OF THE GRADE MANUALLY.
- 2- IF STRANGE OR UNSUITABLE MATERIALS FOR COMPACTING ARE FOUND, EXCAVATION WILL BE DEEPER, FILLED AND COMPACTED UNTIL THE FLOOR LEVEL INDICATED IN THE PLANS IS RESTORED. THE ENGINEERING DEPARTMENT WILL DETERMINE AND INDICATE THE ADDITIONAL DEPTH TO BE EXCAVATED AND FILLED IN ORDER TO OBTAIN A SOLID BASE.
- 3- AFTER PLACING THE REGISTRY (IF PRE-CONSTRUCTED) OR HAVING REMOVED THE MOLDS (IF CAST ON SITE). THEY WILL PROCEED TO FILL IN LAYERS OF SIX (6") UP TO FOUR (4") BEFORE THE LEVEL OF THE SURFACE OF THE LAND, STREET OR AVENUE.
- 4- FOR THE LAST SIX (6") OF FILLING, SURFACE SOIL WILL BE USED (IF THE REGISTRY IS LOCATED IN A PLACE WHERE THIS MATERIAL WAS THE EXISTING BEFORE THE WORK) ASPHALT OR REINFORCED CONCRETE (IF THE REGISTRY IS LOCATED IN A PLACE WHERE THIS MATERIAL WAS THE EXISTING BEFORE THE WORK) ASPHALT OR REINFORCED CONCRETE (IF THE REGISTRY IS LOCATED IN A STREET, AVENUE, SIDEWALK OR AN AREA COVERED WITH THIS TYPE OF MATERIAL (SEE FIGURES 3-1 AND 3-B)
- 5- IN CASES IN WHICH THE GREATIC LEVEL IS IN OR ABOVE THE BOTTOM OF THE EXCAVATION, ONE OF THE KNOWN METHODS WILL BE USED TO CORRECT THE CONDITION (LOWER THE GREATIC LEVEL). THE METHOD TO BE USED WILL BE APPROVED IN ADVANCE BY THE REPRESENTATIVE OF THE BUILDING DEPARTMENT. FIGURE 4 PRESENTS THE ABOVE INDICATED GRAPHICALLY.



CONSTRUCTION DEPARTMENT NOTES:

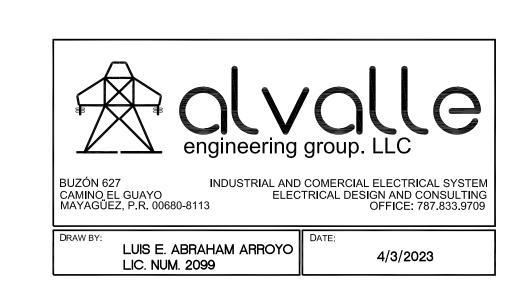
- 1. NOTIFY THE LOCATION OR ORIGIN OF THE MATERIAL TO BE USED FOR FILLING TO THE SELECTED LABORATORY. SUCH NOTIFICATION WILL BE MADE WITH A MINIMUM OF (5) DAYS IN ADVANCE TO THE DATE ON WHICH THE TESTS OF THE COMPACTED GROUND WILL BE CARRIED OUT.
- 2. HE WILL COORDINATE THE DAY ON WHICH THE SELECTED LABORATORY TECHNICIAN MUST BE PRESENT AT THE PROJECT TO TAKE THE COMPACTION
- TESTS ON THE COMPACTED FILL. THIS WILL BE CARRIED OUT WITH A MINIMUM OF TWO (3) DAYS IN ADVANCE OF THE SCHEDULED DATE FOR TESTS.
- 3. HE WILL ENSURE THAT THE PATTERN SPECIFIED BY THE ENGINEERING DEPARTMENT IS CARRIED OUT. OF PE REGARDING THE QUANTITY, FREQUENCY AND PLACE OF THE TESTS TO BE CARRIED OUT BY THE LABORATORY TECHNICIAN.
- 4. HE WILL ENSURE THAT THE METHODS APPROVED BY THE ENGINEERING DEPARTMENT ARE USED. OF PE FOR THE CORRECTION OF CONDITIONS SUCH AS SOIL MATERIAL AT THE BOTTOM OF THE EXCAVATION, AMONG OTHERS.
- 5. IT WILL CHECK THAT THE RESULTS OF THE LABORATORY TESTS TAKEN FROM THE FILLING ARE IN ACCORDANCE WITH WHAT IS ESTABLISHED BY THIS PRACTICE.
- 6. THE CONTRACTOR WILL BE REQUIRED TO COMPLY WITH THE DEGREE OF COMPACTION INDICATED IN THIS PRACTICE. 7. ALL CONDUIT BEAM SHALL BE INSTALLED A MINIMUM OF 30" DEPTH, 42" DEPTH WHEN CROSSING ROADWAYS, AND/OR AS SPECIFIED ON THE PLANS.
- 8. THE PLANS ARE APPROXIMATE IN TERMS OF SCALE & LOCATION, THEREFORE THE ROUTE OF THE DESIGNS MAY VARY DEPENDING ON OBSTACLES FOUND

UNDERGROUND. THEREFORE, THE CONTRACTOR SHALL TAKE INTO CONSIDERATION ANY VARIATION THAT MAY ARISE WITHIN THESE PARAMETERS IN ITS QUOTE FOR THE WORK.

- 9. NO CONDUIT RUNS WILL BE BUILT ON THE SANITARY TRUNKS AND/OR SUB-TRUNCH OF THE A.A.A. EXCEPT TO CROSS OVER THEM. THE ROUTE WILL BE OBSERVED REGARDLESS OF THE DEPTH OF THE TRUNK BEFORE BEGINNING CONSTRUCTION. THE ENGINEERING DEPARTMENT OF THE P.R.T.C. WILL NOT ACCEPT CONSTRUCTIONS LESS THAN 3' MINIMUM MEASURED HORIZONTALLY FROM THE SANITARY MAIN.
- 10. HE WILL COORDINATE WITH THE SELECTED LABORATORY ON THE DAY THE TECHNICIAN MUST BE PRESENT TO TAKE THE NECESSARY CONCRETE TESTS, THE TAKING OF CYLINDERS AND THEIR COLLECTION.
- 11. THE CONTRACTOR MUST CONSIDER IN ITS PROPOSAL ANY MEASURE TO MITIGATE DAMAGE TO PUERTO RICAN ARCHAEOLOGICAL LAND HERITAGE AS PROVIDED IN LAW 112.
- 12. THE CONTRACTOR MUST GUARANTEE COMPACTION OF THE GROUND IN ACCORDANCE WITH THE PROVISIONS OF PRACTICE OP-360 AND ANY OTHER APPLICABLE. THE CONSTRUCTION INSPECTOR MUST VERIFY THAT THE COMPACTION WORKS COMPLY WITH EACH AND EACH OF THE APPLICABLE PRACTICES.
- 13. THE CONTRACTOR WILL REQUIRE THE COOPERATION OF THE STATE AND MUNICIPAL POLICE TO COORDINATE ALTERNATE ROUTES FOR FREE VEHICULAR TRANSIT DURING WORKING HOURS. 14. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE TRAFFIC CONTROL DEVICES FOR CONSTRUCTION OPERATIONS. THEY WILL BE INSTALLED FROM THE BEGINNING
- 15. THE CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATING WITH THE RELEVANT AGENCIES THE REQUIRED PERMITS.

OF CONSTRUCTION AND PROPERLY MAINTAINED WHILE SPECIAL CONDITIONS PREVAIL.

- 16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT FREE OF CHARGE FOR THE PUERTO RICO TELEPHONE COMPANY ANY PAVEMENT, ASPHALT OR CONCRETE THAT IS AFFECTED BY THE USE OF ANY EQUIPMENT OR MACHINE TO MAKE EXCAVATIONS AND/OR TRENCHES, BUT IS NOT ESSENTIAL TO PERFORM EXCAVATIONS FOR THE PROJECT .
- 17. ALL ASPHALT AREAS THAT ARE AFFECTED BY THE CONSTRUCTION OF THIS PROJECT WILL BE RESTORED IN ACCORDANCE WITH THE REQUIREMENTS OF THE D.T.O.P. OR THE MUNICIPAL GOVERNMENT.



JRT-2023-



REGLAMENTOS APLICABLES.

Junta Reglamentadora de Telecomunicaciones de Puerto Rico ENDOSO DE PLANOS DE FACILIDADES Y/O SERVIDUMBRE

REVISADO POR:	 FECHA
RECOMENDADO POR:	 FECHA
APROBADO POR:	 FECHA

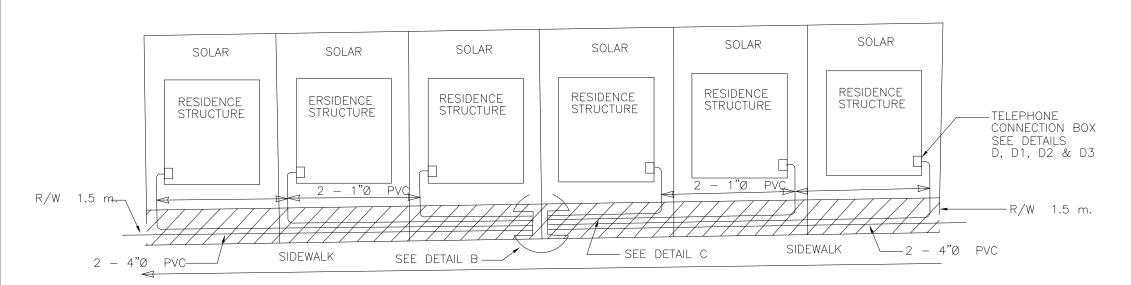
ESTE ENDOSO NO EXIME AL COSTRUCTOR Y AL DESARROLLADOR DE CUMPLIR CON LOS REQUERIMIENTOS DE CONSTRUCCION, CONFORME A TODAS LAS DISPOSICIONES DE LOS

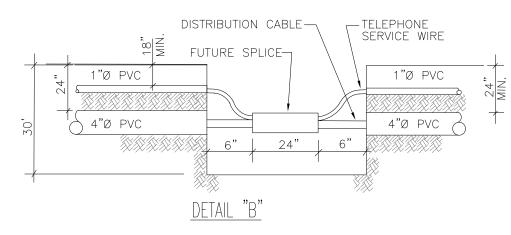
CONSULTANT

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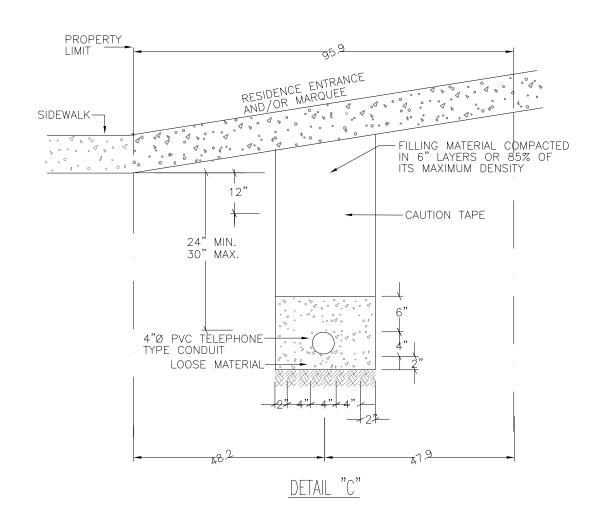
EXISTING TELECOMUNICATION SYSTEM

PROJECT STREETS IMPROVEMENTS **BOSQUE STREET & LIC. RAMIREZ SILVA STREET EXISTING CONDITIONS - ELECTRICAL SITE**





DETAIL OF INFRASTRUCTURE AND TELEPHONE CABLE IN EASE IN FRONT OF RESIDENCES



DETAILS OF TRENCHES AT CANOPY CROSSING

1. THE METAL ENTRANCE BOX WILL BE INSTALLED ON

2. THE GROUND CONNECTION WILL BE MADE THROUGH THE INSTALLATION OF A 8'X5/8" COPPER ROD.

3. THE WHOLE SYSTEM WILL BE LINKED TO GROUND AT ALL ITS POINTS.

4. ALL THE 5"X5"X2" METAL BOXES WILL BE PROVIDED BY THE DEVELOPER.

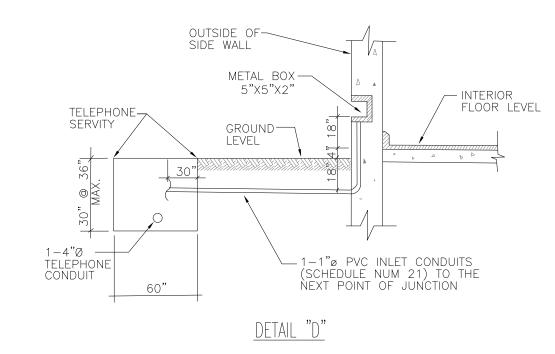
6. THE CONDUIT FOR GROUNDING WILL PROJECT 6" OUTSIDE OF THE WALL.

5. ALL 1"ø PVC CONDUITS WILL BE "SCHEDULE" NO. 21.

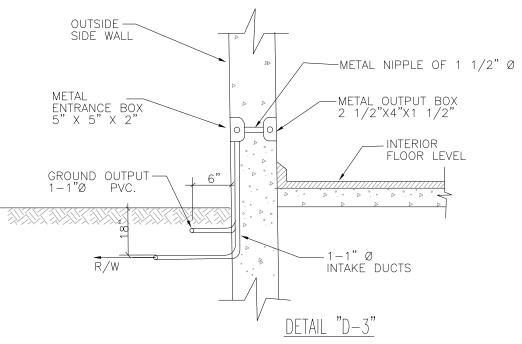
7. NO MORE THAN TWO 90° BENDS SHALL BE INSTALLED BETWEEN THE INPUT OUTLET BOXES.

8. THE 5"X5"X2" METAL ENTRANCE BOX WILL USE A LID TO REDUCE ITS ENTRY TO 2"X4".

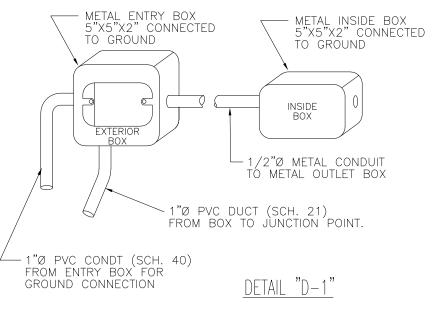
THE SIDE WALL WITH NO LIMITED ACCESS.



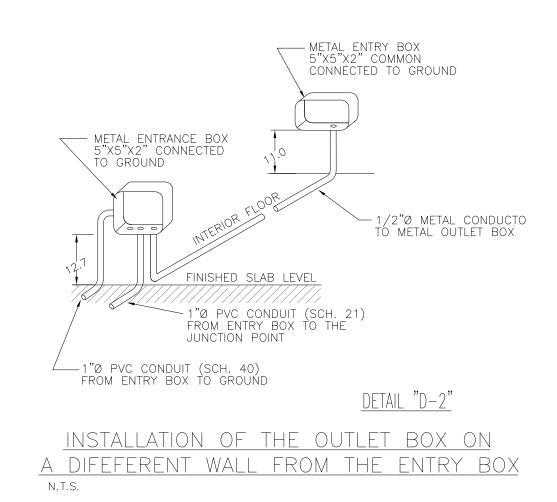
DETAILS OF MARQUEE CROSSES

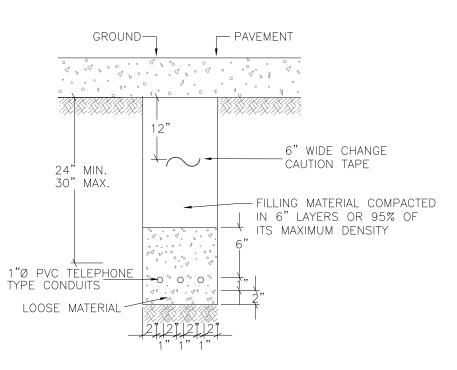


OUTLET BOS INSTATTATION BEHIND THE INPUT BOX (BACK TO BACK) DETAILS

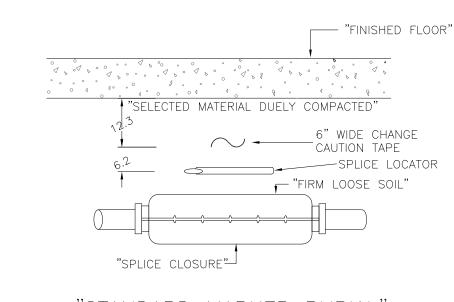


OUTLET BOX INSTALLATION ON THE SAME SIDE WALL AT A VARIABLE DISTANCE

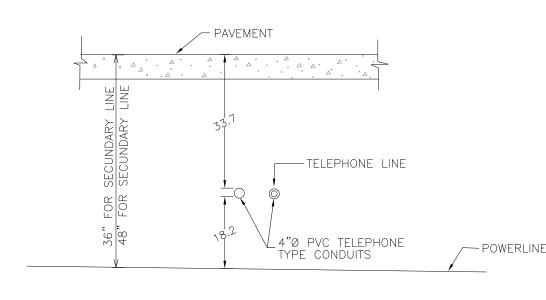




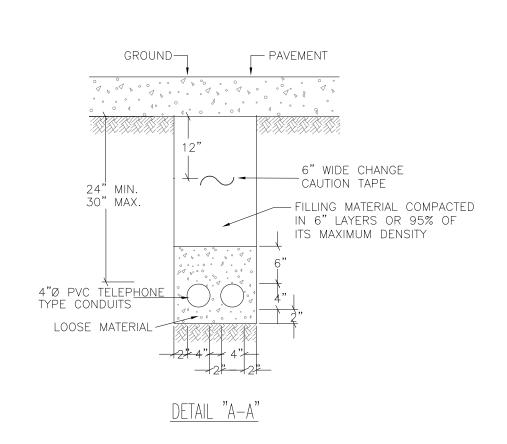
CROSS SECTION IN 1" DUCT RUN



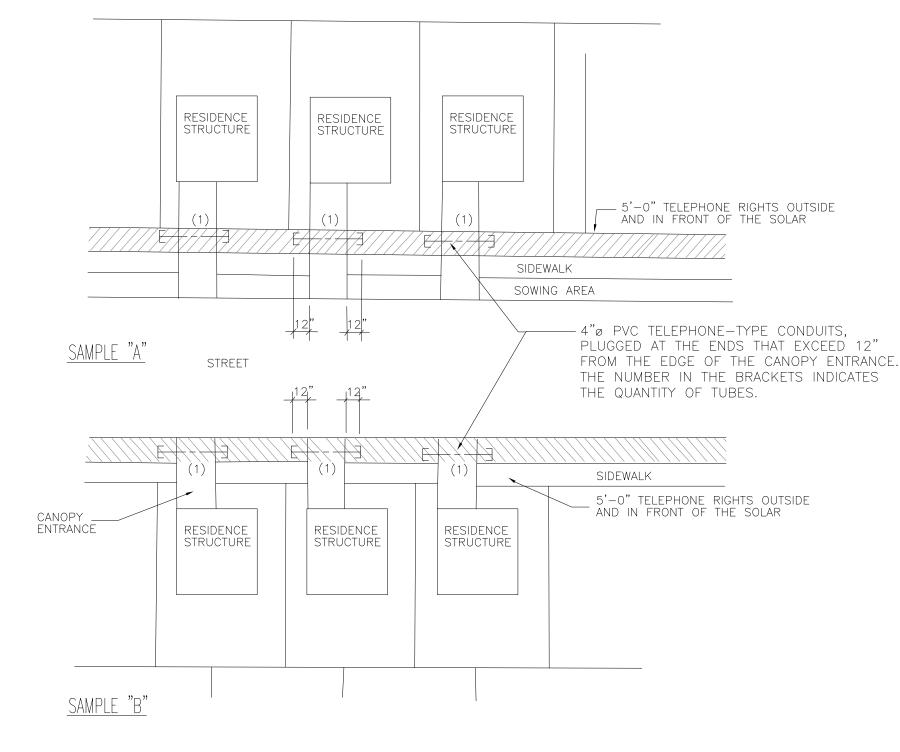
<u>"Standard marker burial"</u>



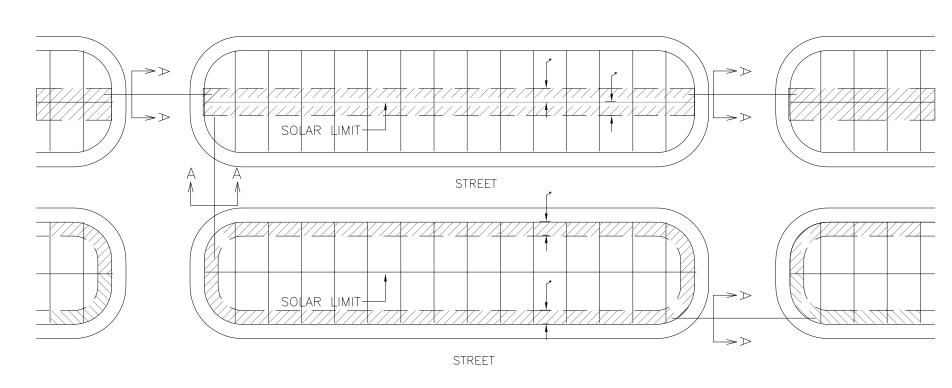
DETAIL OF THE LOCATION OF THE ELECTRICAL AND TELEPHONE LINES WHEN THEY CROSS THEM



INSTALLATION OF THE OUTLET BOX ON DETAILS OF TRENCHES AT STREET CROSSING



DETAILS OF STREET CROSSING WITH EASYMENT ON THE FRONT

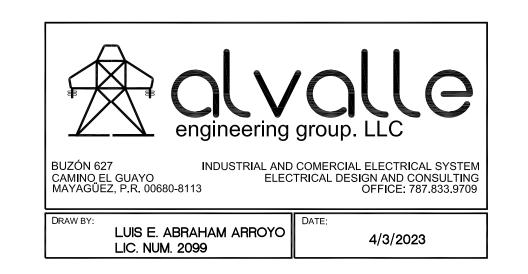


- 1. LEGAL EASEMENT OF FIVE FEET WIDE, MEASURED FROM THE REAR ADJACENT OF THE PLOTS AND THROUGHOUT THE ENTIRE LENGTH OF THE BLOCK.
- 2. LEGAL EASEMENT OF FIVE FEET WIDE, MEASURED FROM THE ADJACENT ON THE FRONT OR SIDE OF THE LOT AND THROUGHOUT THE ENTIRE LENGTH OF THE BLOCK.
- 3. SEE DETAIL "A-A"

DETAILS OF INSTALLATION OF CONDUITS AT CROSSING STREETS

IMPORTANT NOTES:

- 1. 4"ø SCH 21 PVC DUCT WILL BE INSTALLED ALONG THE RIGHT-OF-WAY AS INDICATED. TWO(2) 4"ø SCH 21 PVC DUCTS WILL BE INSTALLED AT THE STREET CROSSINGS.
- 2. 1"ø PVC CONDUIT WILL BE INSTALLED FROM THE OUTSIDE RECEPTACLE IN THE WALL OF THE RESIDENCE TO THE FITTING POINT.
- 3. AT THE PROPOSED JOINT POINTS, THE 1"ø AND 4"ø PVC CONDUITS WILL BE COVERED, WITH A DISTANCE NO GREATER THAN E6" BETWEEN THEM AND THE JOINT LOCATORS WILL BE PLACED ON THIS POINT. SEE DETAIL (STANDARD MARKER BURIAL").
- 4. THE DEVELOPER WILL COORDINATE WITH THE SUPERVISOR OF THE CONSTRUCTION DEPARTMENT BY TELEPHONE (797) 883-8806 FOR THE DELIVERY AND INSTALLATION OF THE CONDUITS.



REGLAMENTOS APLICABLES.

TELECOMUNICACIONES DE PURENTA DO SOLO TONO 1996 O SOLO TO	Junta Reglamentadora de Telecomunicaciones de
	Puerto Rico
	ENDOSO DE PLANOS DE FACILIDADES Y/O SERVIDUMBR DE TELECOMUNICACIONES Y TELEVISION POR CABLE
REVISADO POR:	FECHA
RECOMENDADO PO	R:

ESTE ENDOSO NO EXIME AL COSTRUCTOR Y AL DESARROLLADOR DE CUMPLIR CON LOS REQUERIMIENTOS DE CONSTRUCCION, CONFORME A TODAS LAS DISPOSICIONES DE LOS

CONSULTANT

MOIL OMUNIC UNDERGROU TELECOMUN

CRP

EXISTING TELECOMUNICATION SYSTEM

Sole Source Aquifers



U.S. Environmental Protection Agency

Attachment 13: Sole Source Acquifers

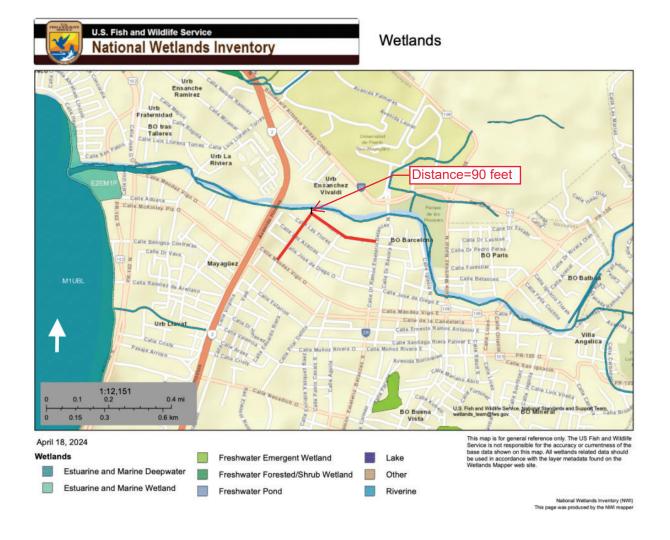
Project Name: Improvements to Bosque and Lic. A Ramírez Silva Streets, Municipality of Mayagüez Location: Bosque Street (Lat:18.204804, Long: -67.140518) and Ramírez Silva Street (Lat: 18.203980,

Long: -67.145075)

Source: USEPA Map of Sole Source Aquifer Location

Website: https://www.epa.gov/dwssa/map-sole-source-aquifer-location

Prepared by: Applied Engineering Group



Attachment 14: Wetlands

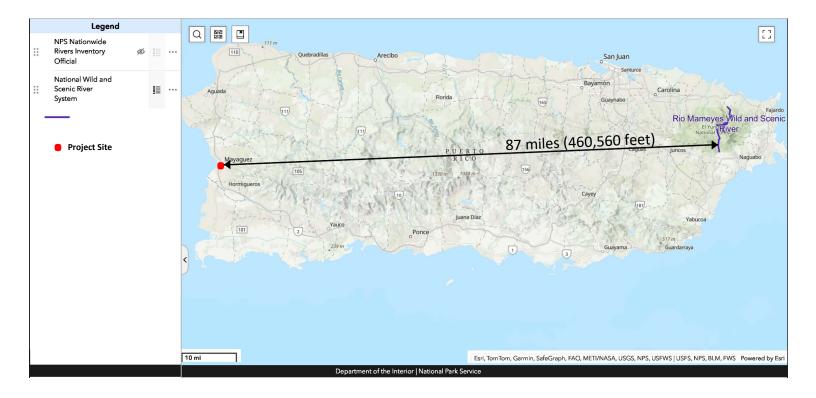
Project Name: Improvements to Bosque and Lic. A Ramírez Silva Streets, Municipality of Mayagüez Location: Bosque Street (Lat:18.204804, Long: -67.140518) and Ramírez Silva Street (Lat: 18.203980,

Long: -67.145075)

Source: USFWS NaMonal Wetlands Inventory – Wetlands Mapper

Website: hZps://www.fws.gov/program/naMonal-wetlands-inventory/wetlands-mapper

Prepared by: Applied Engineering Group



Attachment 15: Wild and Scenic Rivers

Project Name: Improvements to Bosque and Lic. A Ramírez Silva Streets, Municipality of Mayagüez Location: Bosque Street (Lat:18.204804, Long: -67.140518) and Ramírez Silva Street (Lat: 18.203980,

Long: -67.145075)

Source: US National Park Service

Website:https://nps.maps.arcgis.com/apps/View/index.html?appid=ff42a57d0aae43c49a88daee0e35

3142

Prepared by: Applied Engineering Group







10 St. Montecarlo Ave. #866 Río Piedras, PR 00924-5818 P.O. Box 361298 San Juan, Puerto Rico 00936-1298

Nombre del proyecto: Mejoras en la calle Bosque y la calle Lic. Ramírez Silva.

Número del Proyecto: PR-CRP-000857

Localización: Calle Bosque, Mayagüez, Puerto Rico 00680 (18.204804, -

67.140518) and Calle Lic. A. Ramírez Silva, Mayagüez, Puerto Rico

00680 (18.203980, -67.145075).





Item 1: Acera en la calle Lic. Ramírez





























MANAGERS, ARCHITECTS, ENGINEERS AND PLANNERS





Item 3: Acera Calle Lic. Ramírez

























MANAGERS, ARCHITECTS, ENGINEERS AND PLANNERS



Item 4: Acera en la calle Bosque.



Item 5: Pavimento de la calle Bosque

















MANAGERS, ARCHITECTS, ENGINEERS AND PLANNERS



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Item 6: Acera calle Bosque











