

Environmental Assessment

Determinations and Compliance Findings for HUD-assisted Projects

24 CFR Part 58

Project Information

Project ID: PR-RGRW-01310

Project Name: Mariano Crespo Ramos DBA

Responsible Entity: Puerto Rico Department of Housing

Grant Recipient (if different than Responsible Entity): same as above

State/Local Identifier: Puerto Rico / Municipio of Las Marías

Preparer: Cristine Reguera, Deputy Program Manager

Certifying Officer Name and Title:

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Consultant (if applicable): SWCA Environmental Consultants

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Project Location:

The proposed project is located on a 10.96-acre parcel (Parcel number 183-000-005-87-000) at Carretera 407 KM 3.7, Las Marías, Puerto Rico, 00670 (see **Appendix A, Figure 1- Site Location** and **Figure 2- Site Vicinity**). This property is in a rural area in the northern portion of Las Marías Municipio. Access to the project areas is provided via an existing unpaved road that runs north/south through the central portion of the property.

The applicant has identified five locations for project activities related for the Intended Use of Grant Funds that are being evaluated under this Environmental Assessment (EA), also shown on Figures 1 and 2:

- Greenhouse Option 1 (18.273201, -67.007851) is in the southern portion of the parcel near the southern parcel boundary.
- Greenhouse Option 2 (18.273746, -67.007521) is in the eastern portion of the parcel.

- Greenhouse Option 3 (18.273975, -67.007527) is in the eastern portion of the parcel directly north of Option 2.
- Generator Option 1 (18.273376, -67.008401) and Generator Option 2 (18.273487, -67.008283) are both in the south-central area of the property, approximately 10 to 15 feet apart.

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

The proposed project includes the purchase of various equipment (sprayer, water tank (cisterns), utility terrain vehicle, chipper), the construction and installation of a new greenhouse, and installation of a new generator. The equipment that will be purchased by the applicant as listed in the Intended Use of Grant Funds falls under the "categorically excluded, not subject to (CENST)" category under HUD guidelines (24 CFR 58.35(b)(4)). This EA also encompasses the CENST review requirements for the equipment.

The proposed new greenhouse will be approximately 2,160 square feet in size (72 feet by 30 feet) with a total height of approximately 18 feet. The posts of the new greenhouse will be secured by 12-inch-wide concrete footers extending 2 feet deep into the ground. The greenhouse will have a total of 28 posts (lengthwise- 10 posts on each side at 8 feet apart, widthwise- 4 posts on each side at 6 feet apart) (see **Appendix A, Figure 3- Construction Plans**). Irrigation piping and connections for the greenhouse will be above ground surface. The Option 1 site is relatively flat and level. Option 2 and 3 sites are on a slight slope and leveling may be required.

An existing greenhouse, with a concrete platform to accommodate above-ground cisterns, is in the southwestern portion of the parcel. This greenhouse is not included in the Intended Use of Grant Funds. Site Option 1 is adjacent to the existing greenhouse and is the preferred alternative since the applicant can connect the irrigation system from the existing greenhouse to the aboveground connections of the new greenhouse. Use of Option 2 and 3 sites may require a separate irrigation system, but according to the applicant, no platforms will be constructed at Option 2 and 3 sites for the cisterns. Connections from the irrigation system to the cisterns will be above ground.

The new proposed generator site will be approximately 6 square feet in size (2 feet by 3 feet) and will be built on a platform installed during construction. The generator will be located at one of two proposed locations adjacent to an existing shed that will be used as a cooler to refrigerate and store produce. The new greenhouse will be connected to the generator by an aboveground cable.

The project will involve some ground disturbance as well as pruning of vegetation, but no tree clearing is required for construction. The applicant owns the property; therefore, no acquisition is required.

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

In September of 2017, Hurricanes Irma and María produced sustained winds and intense rainfall that decimated agricultural production across the island of Puerto Rico. These hurricanes caused the loss of eighty percent of crop value island wide, exacerbating challenges to food security and agricultural business development. The Puerto Rico Department of Agriculture (PRDA) estimated seven hundred and eighty million dollars (\$780 million) worth of damages from the hurricanes to the agricultural sector of the economy.

Many properties were damaged in Hurricane Maria, resulting in struggling businesses. The Re-Grow Puerto Rico Urban-Rural Agriculture Program (Re-Grow Program) will develop greater agricultural capacity and address the needs created by Hurricanes Irma and María with a substantial investment of CDBG-DR funds for a wide variety of viable and sustainable agricultural activities.

The applicant does not have the resources to purchase farming equipment and materials for their agricultural operation. The new greenhouse will help increase the agricultural production of cilantro. The new generator will provide electricity to the pumps for the irrigation system to the greenhouse and will also allow the applicant to refrigerate the produce that they cannot immediately sell. The equipment will also help the applicant save money on the use of potable water and reuse of rainwater.

Agencies consulted for the proposed project are provided in the *List of Sources, Agencies and Persons Consulted* section of this EA. Further discussion of the environmental impacts of the proposed action and alternatives is provided in the *Cumulative Impact Analysis, Alternatives/No Action Alternative*, and *Summary of Findings and Conclusions* sections of this EA.

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

The general topography of the property is hilly with open pastures and vegetated areas. The property is classified as rustic agricultural land. The proposed activities are for agricultural purposes and are consistent with the current land use. All optional sites for the greenhouse are currently undeveloped and vegetated land. The optional sites for the generators are cleared, vacant land.

Funding Information

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

Estimated Total HUD Funded Amount: \$ 50,000

Estimated Total Project Cost (HUD and non-HUD funds) [24 CFR 58.32(d)]: \$ 50,000

Compliance with 24 CFR 58.5 and 58.6 Laws and Authorities

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

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	Compliance Determinations
STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR 58.6		
Airport Hazards 24 CFR Part 51 Subpart D	Yes No <input type="checkbox"/> <input checked="" type="checkbox"/>	<p>The project site is not within 2,500 feet of a civil primary or commercial service airport or within 15,000 feet of a military airport. The closest civil airport, Eugenio Maria de Hostos, is 46,721 feet (9 miles) west of the project site. Eugenio Maria de Hostos is a nonprimary commercial service airport. The closest joint civil-military airport, Luis Munoz Marin International, is 349,099 feet (66 miles) east of the project site. No further evaluation is required. The project is in compliance with airport hazards requirements.</p> <p>The Airport Hazards Partner Worksheet and Airport Hazards Map (Figure B 1-1)</p>

		are provided in Appendix B, Attachment 1.
Coastal Barrier Resources Coastal Barrier Resources Act, as amended by the Coastal Barrier Improvement Act of 1990 [16 USC 3501]	Yes No <input type="checkbox"/> <input checked="" type="checkbox"/>	<p>The project site is not located in a Coastal Barrier Resource Systems (CBRS) Unit. The closest CBRS unit, Rio Guanajibo, is 67,999 feet (13 miles) southwest of the project site. No further evaluation is required. The project is in compliance with the Coastal Barrier Resources Act.</p> <p>The Coastal Barrier Resources Act Partner Worksheet and Coastal Barrier Resources Map (Figure B 2-1) are provided in Appendix B, Attachment 2.</p>
Flood Insurance Flood Disaster Protection Act of 1973 and National Flood Insurance Reform Act of 1994 [42 USC 4001-4128 and 42 USC 5154a]	Yes No <input type="checkbox"/> <input checked="" type="checkbox"/>	<p>A review of the FEMA Flood Insurance Rate Map (FIRM), Community Panel 72000C0545H (effective date 04/19/2005), shows the project site is in Flood Zone X, which is not in a Special Flood Hazard Area (SFHA). Flood insurance is not required. The project is in compliance with the Flood Disaster Protection Act and National Flood Insurance Reform Act.</p> <p>The Flood Insurance Partner Worksheet and FIRM (Figure B 3-1) are provided in Appendix B, Attachment 3.</p>
STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR 58.5		
Clean Air Clean Air Act, as amended, particularly section 176(c) & (d); 40 CFR Parts 6, 51, 93	Yes No <input type="checkbox"/> <input checked="" type="checkbox"/>	<p>The project site is in Las Marías Municipio, which is within an U.S. Environmental Protection Agency (USEPA) designated attainment area. Project activities include construction of a new greenhouse and installation of a generator, and the project is not anticipated to have a negative impact on air quality and will not increase residential density. Emissions associated with the proposed actions are temporary and limited to the use of small construction equipment and will be well below the Federal General Conformity Rule de minimis thresholds.</p>

		<p>The project is in compliance with the Clean Air Act.</p> <p>The Air Quality Partner Worksheet, List of Non-Attainment/Maintenance Status Counties in Puerto Rico, and Clean Air Map (Figure B 4-1) are provided in Appendix B, Attachment 4.</p>
<p>Coastal Zone Management</p> <p>Coastal Zone Management Act, sections 307(c) & (d)</p>	<p>Yes No</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>The project site is not located within the Puerto Rico Coastal Management Zone. The closest coastal zone area is 52,694 feet (10 miles) southwest of the project site. No further evaluation is required. The project is in compliance with the Coastal Zone Management Act.</p> <p>The Coastal Zone Management Partner Worksheet and Coastal Zone Map (Figure B 5-1) are provided in Appendix B, Attachment 5.</p>
<p>Contamination and Toxic Substances</p> <p>24 CFR Part 58.5(i)(2)</p>	<p>Yes No</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>The project site was evaluated for potential contamination by conducting a site inspection on January 30, 2023, to determine any onsite hazards including, but not limited to, soil staining, aboveground storage tanks, signs of underground storage tanks, odors, hazardous debris, etc. The site inspection did not identify any onsite hazards (see Appendix C- Environmental Site Inspection Report).</p> <p>In addition, a desktop review of USEPA databases, NEPAassist, and other sources was conducted to determine if the project site was located near dump sites, junk yards, landfills, hazardous waste sites, or industrial sites, including USEPA National Priorities List Sites (Superfund sites), CERCLA or state-equivalent sites, RCRA Corrective Action sites with release(s) or suspected release(s) requiring clean-up action and/or further investigation.</p> <p>The desktop review did not identify any of the above-listed toxic, hazardous, or radioactive substances within 3,000 feet of the project area that could affect</p>

		<p>the health and safety of project occupants or conflict with the intended use of the property. The project is in compliance with contamination and toxic substances requirements.</p> <p>The Contamination and Toxics Substances Partner Worksheet, and Toxics and Contamination Map (Figure B 6-1) are provided in Appendix B, Attachment 6.</p>
<p>Endangered Species</p> <p>Endangered Species Act of 1973, particularly section 7; 50 CFR Part 402</p>	<p>Yes No</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>The project involves activities that have the potential to affect protected species or habitats, including but not limited to activities such as ground disturbance.</p> <p>Threatened, endangered, and migratory bird species were identified by reviewing data from the United States Fish and Wildlife Service (USFWS) Information and Planning Consultation (IPaC) Tool and the Puerto Rico Department of Natural and Environmental Resources (DNER) Species Ranges database. In addition, critical species habitat was reviewed through the USFWS IPaC, Critical Habitat Portal, and the DNER Puerto Rico State Wildlife Action Plan, a Ten-Year Review database. The review identified one federally listed species and nine state listed species with the potential to occur within the project area.</p> <p>The project activities will result in ground disturbing activities, including site grading, installation of a new generator, and construction of a new greenhouse. A qualified biologist reviewed the proposed activity locations and determined that there is no suitable habitat present for any federal or state listed species within the project area; therefore, as currently designed, the proposed project activities will have <i>No effect</i> on any federally listed species or</p>

		<p>designated critical habitat and <i>no impact</i> to all state protected species.</p> <p>If a Puerto Rican Boa is found in the project action site, work shall cease until the Boa moves off on its own. If the Boa does not move off, the CM shall contact the Puerto Rico DNER and ask for them to relocate the Boa.</p> <p>The Endangered Species Act Partner Worksheet, Threatened and Endangered Species Technical Memorandum with IPaC, and Critical Habitat Map (Figure B 7-1) are provided in Appendix B, Attachment 7.</p>
<p>Explosive and Flammable Hazards</p> <p>24 CFR Part 51 Subpart C</p>	<p>Yes No</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>The project includes the purchase of equipment and construction and installation of a new greenhouse and generator. The project itself is not the development of a potentially hazardous facility nor will the project increase residential densities. No further evaluation is required. The project is in compliance with explosive and flammable hazard requirements.</p> <p>The Explosive and Flammable Hazards Partner Worksheet is provided in Appendix B, Attachment 8.</p>
<p>Farmlands Protection</p> <p>Farmland Protection Policy Act of 1981, particularly sections 1504(b) and 1541; 7 CFR Part 658</p>	<p>Yes No</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>This project does not include any activities that could potentially convert agricultural land to non-agricultural use. No prime farmland or farmlands of statewide importance are within the project area. Although the project includes new construction, the project is exempt from review under the Farmland Protection Policy Act (FFPA) as the project is limited to construction of on-farm structures needed for farm operations. No further review is required. The project is in compliance with the Farmland Protection Policy Act</p> <p>The Farmlands Protection Partner Worksheet and Prime Farmland Map</p>

		(Figure B 9-1) are provided in Appendix B, Attachment 9 .
Floodplain Management Executive Order 11988, particularly section 2(a); 24 CFR Part 55	Yes No <input type="checkbox"/> <input checked="" type="checkbox"/>	<p>A review of the Advisory Base Flood Elevation (ABFE) map, Community Panel 72000C0545H (effective date 04/19/2005), shows the project site is in Flood Zone X. The project is not located in the 100-year floodplain or ABFE special flood hazard area; therefore, no further action is required. The project is in compliance with Executive Order 11988.</p> <p>The Floodplain Management Partner Worksheet and ABFE Floodplain Map (Figure B 10-1) are provided in Appendix B, Attachment 10.</p>
Historic Preservation National Historic Preservation Act of 1966, particularly sections 106 and 110; 36 CFR Part 800	Yes No <input type="checkbox"/> <input checked="" type="checkbox"/>	<p>The proposed project involves the installation of a new greenhouse and generator on undeveloped land and ground disturbing activities of previously undisturbed soil. State Historic Preservation Office (SHPO) consultation was performed.</p> <p>No National Historic Landmark (NHL) are within or near the project area.</p> <p>A site visit was conducted on January 30, 2023, by an SOI-qualified Archaeologist. Additionally, record reviews and research were conducted at the SHPO and the Institute for Puerto Rican Culture (ICP) to determine if any archaeologically sensitive resources could be present within a 0.5-mile radius.</p> <p>The results of the record search and the site inspection indicate that there are no historic properties or cultural resources within the 0.50-mile radius study area or within the project Area of Potential Effect (APE). Based on the results of the historic property identification efforts, the Program has determined that project actions will not affect historic properties that compose the APE.</p>

		<p>The determination was submitted to SHPO by PRDOH for concurrence on April 3, 2023, and SHPO concurred with the No Historic Properties Affected determination on April 14, 2023. The project is in compliance with the National Historic Preservation Act.</p> <p>The Historic Preservation Partner Worksheet, SHPO consultation, Historic Property Map (Figure B 11-1), and Cultural Resources Map (Figure B 11-2) are provided in Appendix B, Attachment 11.</p>
<p>Noise Abatement and Control</p> <p>Noise Control Act of 1972, as amended by the Quiet Communities Act of 1978; 24 CFR Part 51 Subpart B</p>	<p>Yes No</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>The project activities are limited to the purchase of equipment and the installation of a new greenhouse and generator and do not involve residential new construction or rehabilitation. No further evaluation is required. The project is in compliance with HUD's noise regulation.</p>
<p>Sole Source Aquifers</p> <p>Safe Drinking Water Act of 1974, as amended, particularly section 1424(e); 40 CFR Part 149</p>	<p>Yes No</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>According to the USEPA's Source Water Protection, Sole Source Aquifer Protection Program, there are no sole source aquifers in Puerto Rico. No further evaluation is required. The project is in compliance with the Safe Drinking Water Act.</p>
<p>Wetlands Protection</p> <p>Executive Order 11990, particularly sections 2 and 5</p>	<p>Yes No</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>The project site was reviewed for wetlands using the USFWS Wetland Inventory Mapper and a visual confirmation during the field site inspection. No wetlands were identified on site. No further evaluation is required. The project is in compliance with Executive Order 11990.</p> <p>The Wetlands Protection Partner Worksheet and Wetland Map (Figure B 12-1) are provided in Appendix B, Attachment 12.</p>
<p>Wild and Scenic Rivers</p>	<p>Yes No</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>A review of the USFWS National Wild and Scenic River mapper identified no Wild and Scenic Rivers or National Rivers Inventory (NRI) rivers present in Las</p>

Wild and Scenic Rivers Act of 1968, particularly section 7(b) and (c)		<p>Marías Municipio. The closest Wild and Scenic River segment is 422,587 feet (80 miles) east of the project site. No further evaluation is required.</p> <p>The Wild and Scenic Rivers Partner Worksheet and Wild and Scenic Rivers Map (Figure B 13-1) are provided in Appendix B, Attachment 13.</p>
ENVIRONMENTAL JUSTICE		
<p>Environmental Justice</p> <p>Executive Order 12898</p>	<p>Yes No</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>The ReGrow Program intends to strengthen and alleviate negative economic impacts to the agricultural industry in Puerto Rico. The project's direct and indirect impacts are limited to a single land parcel. The project will benefit the farm owner by improving agricultural use and production.</p> <p>The project would not facilitate development which would negatively affect human health or result in disproportionate adverse environmental impacts to low-income or minority populations. The project is in compliance with Executive Order 12898.</p> <p>The Environmental Justice Partner Worksheet and EJSscreen Report are provided in Appendix B, Attachment 14.</p>

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

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

(1) Minor beneficial impact

(2) No impact anticipated

(3) Minor Adverse Impact – May require mitigation

(4) Significant or potentially significant impact requiring avoidance or modification which may require an Environmental Impact Statement

Environmental Assessment Factor	Impact Code	Impact Evaluation
LAND DEVELOPMENT		
Conformance with Plans / Compatible Land Use and Zoning / Scale and Urban Design	2	<p>All project site optional locations are classified as rustic agricultural land use (SREP-A). The proposed action is continued agricultural use of property, which is compatible with zoning and existing land use. The project site is in a rural area of Las Marías Municipio, and project activities will not contribute to urban sprawl.</p> <p>Any necessary permits should be obtained by the applicant and/or contractor from the appropriate department prior to construction activities.</p>
Soil Suitability/ Slope/ Erosion/ Drainage/ Storm Water Runoff	2	<p>Soil suitability will be assessed prior to construction and will be addressed during local permitting processes. Contractors will be required to use best management practices during construction if erosion impacts will occur. The general topography of the property is hilly with open vegetated areas. Leveling may be required for the project sites that have a slight slope.</p> <p>Landslide data from the U.S. Geological Survey (USGS) indicates less than 25 landslides per square kilometer for the project area (see Appendix A, Figure 4- USGS Landslide Map).</p> <p>Department of Natural and Environmental Resources (DNER) authorization may be required for any extraction, removal, excavation, and dredging of the components of the earth's crust.</p>
Hazards and Nuisances including Site Safety and Noise	2	<p>Contractors will be required to provide health and safety plans and monitoring during construction. Noise levels will temporarily increase during construction; however, program activities are limited to the existing farm property and will not elevate ambient noise levels long-term. Contractors will be required to</p>

Environmental Assessment Factor	Impact Code	Impact Evaluation
LAND DEVELOPMENT		
		comply with the applicable local noise ordinances. Noise impacts will be mitigated by restricting construction activities to daylight hours. Additionally, the project does not include housing to where inhabitants would be affected.
Energy Consumption	2	The project will not result in significant additional energy consumption. The new 12 kW generator will provide electricity for the irrigation pumps and will not require any expansion to existing power facilities.

Environmental Assessment Factor	Impact Code	Impact Evaluation
SOCIOECONOMIC		
Employment and Income Patterns	2	The project will result in short-term employment benefit when contractors are hired for construction. After construction, the project will support the continuation of operations and intended use of the farm, which produces produce for Puerto Rico communities. The project is not anticipated to have a significant impact on employment and income patterns; however, the project may help restore employment opportunities and local agricultural business development.
Demographic Character Changes, Displacement	2	The project is a rural area in the northern portion of Las Marías Municipio and will not alter the demographics or character of surrounding community. Project activities will not result in any direct or indirect displacement of individuals or families.

Environmental Assessment Factor	Impact Code	Impact Evaluation
COMMUNITY FACILITIES AND SERVICES		
Educational and Cultural Facilities	2	The proposed project activities will occur on private land and will not affect access to or capacity of educational or cultural facilities.

Environmental Assessment Factor	Impact Code	Impact Evaluation
COMMUNITY FACILITIES AND SERVICES		
Commercial Facilities	2	The proposed project will increase agricultural production, resulting in a net positive impact to the applicant's commercial farm output and a positive benefit to surrounding commercial enterprises who purchase and sell the produce.
Health Care and Social Services	2	The proposed project activities will occur on private land and will not affect access to or capacity of health care and social services.
Solid Waste Disposal / Recycling	2	The proposed project may cause an increase in short-term generation of solid waste during construction. All construction debris will be disposed of at the proper facilities for the debris type (i.e., construction waste). The project will not contribute to long-term needs or changes to solid waste disposal and recycling.
Wastewater / Sanitary Sewers	2	<p>The purchase of equipment and installation of a new greenhouse and generator are not expected to result in significant changes in wastewater or sanitary sewer use.</p> <p>Sewage generation will not exceed the capacity of sewers or treatment facilities, nor does the project involve on-site waste disposal systems in areas not suitable for its use. Wastewater from the project will not enter environmentally sensitive areas, nor will the project produce any noxious odors affecting quality of life for nearby residents.</p>
Water Supply	2	The proposed project activities are not expected to result in significant changes to water supply. The new equipment will allow the applicant to reuse rainwater to irrigate crops, reducing the consumption of municipal water supply.
Public Safety - Police, Fire and Emergency Medical	2	The proposed project activities will occur on private land and will not affect public safety concerns such as police, fire, and emergency medical services.
Parks, Open Space and Recreation	2	The proposed project activities will occur on private land and will not result in any changes to access or use of parks, open space, and recreation areas.

Environmental Assessment Factor	Impact Code	Impact Evaluation
COMMUNITY FACILITIES AND SERVICES		
Transportation and Accessibility	2	The project activities will occur on private land and have no relation to transportation services. The proposed activities will not result in any changes in transportation and accessibility.

Environmental Assessment Factor	Impact Code	Impact Evaluation
NATURAL FEATURES		
Unique Natural Features, Water Resources	2	The project is not located in proximity to unique natural features or water resources; therefore, construction activities will not affect quality or access to these resources.
Vegetation, Wildlife	2	The project area has already been previously disturbed for farm operations. Although there will be some pruning of trees, the project is not anticipated to negatively impact trees, vegetation, wildlife, or native plant communities. No tree clearing will occur. DNER authorization may be required for pruning. The landowner and/or the contractor will contact the Permit Management Office to determine permits and authorizations required prior to construction.
Climate Change	2	The ReGrow program project aims to increase resiliency in the agricultural industry to prepare for future climate related disasters, including drought. The project will not contribute to climate change and will provide a minor net benefit by allowing for increased food production.

Additional Studies Performed:

No additional studies were performed.

Field Inspection (Date and completed by):

Field inspection completed on January 30, 2023, by Delise Torres-Ortiz, SWCA Environmental Consultants.

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

Department of Economic Development and Commerce. 2023. Sole Incidental Operational Permit for Cutting, Pruning, Transplanting and Tree System Authorization. Accessed July 20, 2023. [Permits Management Office Department of Economic Development and Commerce \(pr.gov\)](#).

Department of Natural and Environmental Resources (DNER). 2023a. Puerto Rico State Wildlife Action Plan a Ten-Year Review. Accessed March 1, 2023. Available at: <https://arcg.is/1DmOy1>.

DNER. 2023b. Puerto Rico DNER Species Ranges – under construction. Accessed March 1, 2023. Available at: <https://arcg.is/1S9aju0>.

Federal Aviation Administration (FAA). 2022. National Plan for Integrated Airport Systems 2023-2027. Accessed January 31, 2023. Available at: [National Plan of Integrated Airport Systems \(NPIAS\) 2023-2027, Appendix B: National and State Maps \(faa.gov\)](#).

Federal Emergency Management Agency (FEMA). 2023. FEMA Flood Map Service Center - Map Panel 72000C0545H (effective 4/19/2005). Accessed March 1, 2023. Available at: <https://msc.fema.gov/portal/home>.

Institute of Puerto Rican Culture (ICP). 2023. San Juan, Puerto Rico. Data collection conducted on February 6, 2023.

National Oceanic and Atmospheric Administration (NOAA) Office for Coastal Management. 2023. Puerto Rico Coastal Zone Boundary. Accessed March 1, 2023. Available at: [Puerto Rico Coastal Vulnerability Viewer \(arcgis.com\)](#).

State Historic Preservation Office (SHPO). 2023. San Juan, Puerto Rico. Data collection conducted on February 14 and 27, 2023.

U.S. Environmental Protection Agency (USEPA). 2022a. Envirofacts Mapper. Air pollution data (ICIS-AIR), Brownfields, Hazardous Waste (RCRAInfo), Superfund National Priorities List (NPL), Toxic Releases Inventory (TRI), and National Pollutants Discharge Elimination Systems (NPDES). Accessed November 1, 2022. Available at: <https://geopub.epa.gov/arcgis/rest/services/EMEF/efpoints/MapServer>.

USEPA. 2022b. Sole Source Aquifer Map. Accessed March 1, 2023. Available at: <https://epa.maps.arcgis.com/apps/webappviewer/index.html?id=9ebb047ba3ec41ada1877155fe31356b>.

USEPA. 2023a. Puerto Rico Nonattainment/Maintenance Status for Each County by Year for All Criteria Pollutants. USEPA Green Book. Accessed January 31, 2023. Available at: https://www3.epa.gov/airquality/greenbook/anayo_pr.html.

USEPA. 2023b. EJScreen: Environmental Justice Screening and Mapping Tool. Accessed March 3, 2023. Available at: <https://www.epa.gov/ejscreen/download-ejscreen-data>.

U.S. Fish and Wildlife Service (USFWS). 2019. Coastal Barrier Resources System. Accessed January 31, 2023. Available at: <https://www.fws.gov/CBRA/Maps/Mapper.html>.

USFWS. 2023a. Information for Planning and Consultation (IPaC). Accessed March 1, 2023. Available at: <https://ipac.ecosphere.fws.gov/location/index>.

USFWS. 2023b. Critical Habitat for Threatened & Endangered Species. Accessed March 1, 2023. Available at: <https://fws.maps.arcgis.com/home/webmap/viewer.html?webmap=9d8de5e265ad4fe09893cf75b8dbfb77>.

USFWS. 2023c. National Wetlands Inventory Surface Waters and Wetlands Mapper. Accessed March 1, 2023. Available at: <https://fwsprimary.wim.usgs.gov/wetlands/apps/wetlands-mapper/>.

U.S. Forest Service. 2022. National Wild and Scenic River Segments. Accessed January 31, 2023. Available at: <https://www.rivers.gov/mapping-gis.php>; [Wild & Scenic Rivers | US Forest Service \(usda.gov\)](#).

U.S. Geological Survey (USGS). 2022. Concentration of Landslides caused by Hurricane Maria, Puerto Rico. Accessed March 1, 2023. Available at: [U.S. Landslide Inventory \(arcgis.com\)](#).

List of Permits Obtained:

No permits have been obtained.

Public Outreach [24 CFR 58.43]:

Puerto Rico Department of Agriculture has worked closely with the agricultural community. In compliance with the National Environmental Policy Act (NEPA) regulations for HUD, the public will be notified of the project through publication of the combined Finding of No Significant Impact (FONSI) – Notice of Intent to Request Release of Funds (NOI-RROF) notice with a 15-day public comment period.

Cumulative Impact Analysis [24 CFR 58.32]:

The purchase of equipment and the construction and installation of a new greenhouse and generator are not anticipated to have a negative impact on environmental resources. None of the environmental assessment factors, nor the regulations reviewed in the above checklist, resulted in negative environmental impacts or the need for mitigation. Overall, the proposed project will have a positive impact by helping a small business increase their capacity for agricultural production. No other planned or ongoing projects were identified in the project vicinity that could contribute to cumulative impacts of environmental resources.

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

Greenhouse Location Options on Parcel

Within the boundaries of the properties, three optional locations are considered for the new greenhouse: Option 1 is in the southern portion of the parcel near the southern parcel boundary; Option 2 is in the eastern portion of the parcel; Option 3 is also in the eastern portion of the parcel, directly north of Option 2. At this time, the applicant has not confirmed which location will be selected. Site Option 1 is closer to the existing greenhouse and is the preferred alternative since the applicant can connect the irrigation system from the existing greenhouse to the aboveground connections of the new greenhouse. All the location options will involve some ground disturbance as well as pruning of vegetation, but no tree clearing is required for construction.

None of the optional locations will result in the need for formal compliance or require further mitigation with any of the forementioned laws and authorities in the EA checklist. All the location options will allow the applicant to continue and increase their agricultural production.

Generator Location Options on Parcel

Within the boundaries of the properties, two locations are considered for the new generator site. Both optional locations are approximately 10 to 15 feet apart. At this time, the applicant has not confirmed which location will be selected. The preferred site will depend on the recommendations of the electrician. Either location of the new generator will provide electricity, by an aboveground cable, to the pumps for the irrigation system to the greenhouse and will also allow the applicant to refrigerate the produce that they cannot immediately sell. The equipment will also help the applicant save money on the use of potable water and reuse of rainwater.

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

Under the No Action Alternative, the applicant would not receive federal funding to purchase equipment, construct a new greenhouse, and install a new generator. Consequently, the applicant may not be able to recover from previous disasters and continue agricultural production. Given the degree of need for greater agricultural capacity in Puerto Rico following Hurricanes Irma and María, the costs of foregoing the project would exceed the benefits.

Summary of Findings and Conclusions:

The proposed project would not result in any adverse effects on the surrounding natural, historical, and water resources; generate significant air or noise pollution; or promote socioeconomic injustices. The proposed project activities will not require further agency consultation. No mitigation or formal compliance steps will be required for any of the laws and authorities assessed in this review.

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

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

Law, Authority, or Factor	Mitigation Measure
Endangered Species Endangered Species Act of 1973, particularly section 7; 50 CFR Part 402	<i>General Condition:</i> The current project activities do not involve the removal of trees. If any tree clearing is to be proposed, the project will need to be re-evaluated for impacts to threatened and endangered species. If a Puerto Rican Boa (Boa) is found in the project activity site, work shall cease until the Boa moves off site on its own. If the Boa does not move off site, the construction manager shall contact the Puerto Rico DNER to relocate the Boa.
Historic Preservation National Historic Preservation Act of 1966, particularly sections 106 and 110; 36 CFR Part 800	<i>General Condition:</i> If historic properties are discovered, unanticipated effects on historic properties are found, or cultural materials are encountered, work should cease in the immediate area; work can continue where no historic properties or cultural materials are present. Please contact PRDOH to consult on further actions that may be necessary to protect historic properties or cultural materials.
Conformance with Plans / Compatible Land Use and Zoning / Scale and Urban Design	Any necessary permits should be obtained by the applicant and/or contractor from the appropriate department prior to construction activities.
Soil Suitability/ Slope/ Erosion/ Drainage/ Storm Water Runoff	Contractors will be required to use best management practices during construction if erosion impacts will occur. DNER authorization may be required for any extraction, removal, excavation, and dredging of the components of the earth's crust.
Vegetation, Wildlife	DNER authorization may be required for pruning. The landowner and/or the contractor will contact the Permit Management Office to determine permits and authorizations required prior to construction.

<p>Hazards and Nuisances including Site Safety and Noise</p>	<p>Contractors will be required to provide health and safety plans and monitoring during construction. Contractors will be required to comply with the applicable local noise ordinances. Noise impacts will be mitigated by restricting construction activities to daylight hours.</p>
<p>Solid Waste Disposal / Recycling</p>	<p>All construction debris will be disposed of at the proper facilities for the debris type.</p>

Determination:

☒ **Finding of No Significant Impact** [24 CFR 58.40(g)(1); 40 CFR 1508.27]

The project will not result in a significant impact on the quality of the human environment.


☐ **Finding of Significant Impact** [24 CFR 58.40(g)(2); 40 CFR 1508.27]

The project may significantly affect the quality of the human environment.

Preparer Signature: Cristine Reguera

Date: July 26, 2023

Name/Title/Organization: Cristine Reguera, Project Manager, SWCA Environmental Consultants

Certifying Officer Signature: 

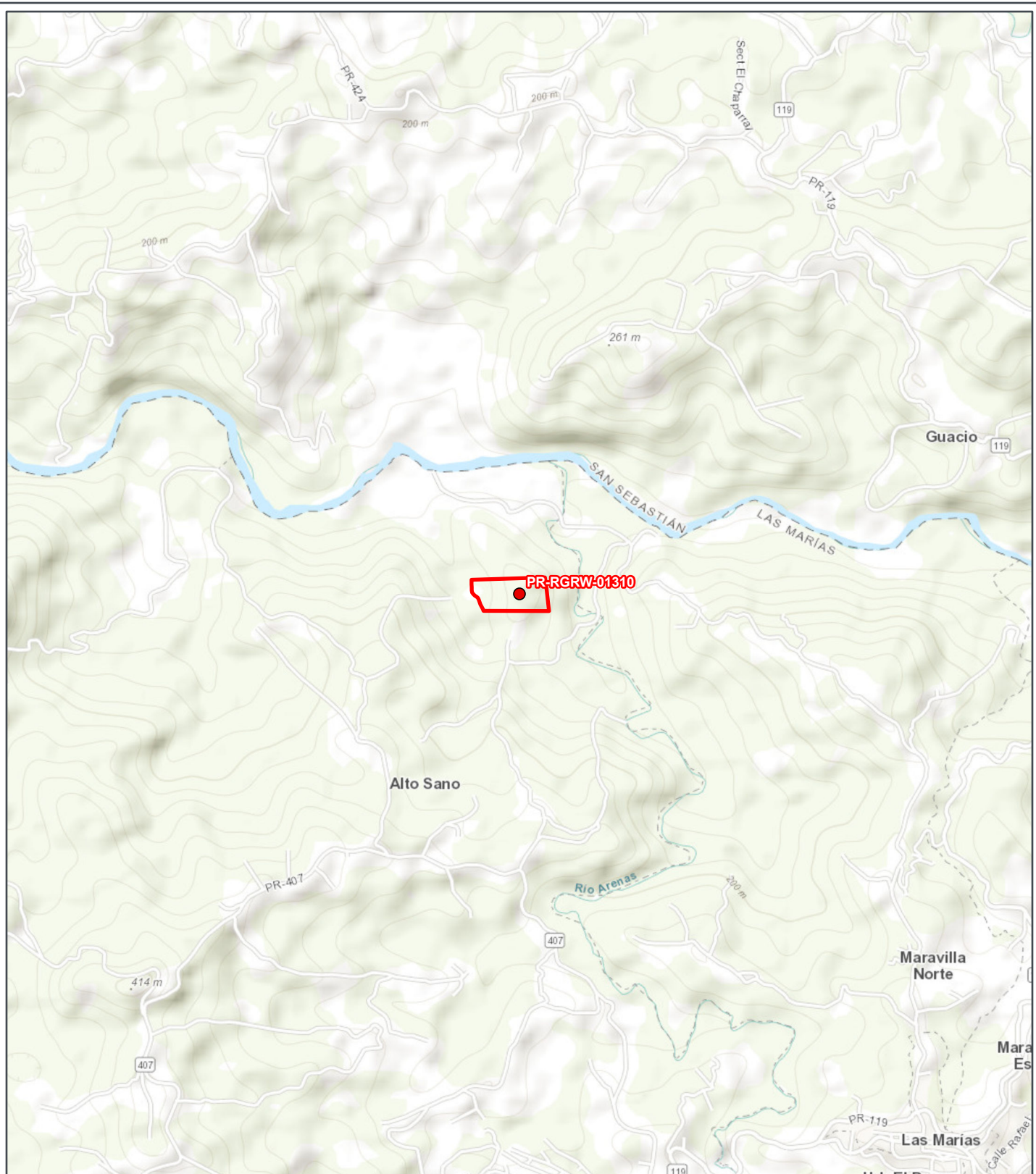
Date: July 28, 2023

Name/Title: Sally Z. Acevedo Cosme- Permits and Environmental Compliance Specialist/ PR Department of Housing

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).

Appendix A

Project Overview Figures



REGROW PROGRAM

Figure A-1: Site Location

Applicant ID: PR-RGRW-01310

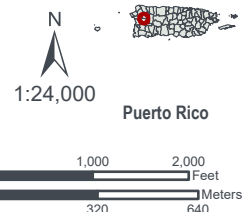
SWCA
ENVIRONMENTAL CONSULTANTS

- Site
- Site Parcel

Carretera 407 KM 3.7
Las Marías, Puerto Rico 00670

Parcel ID: 183-000-005-87-000
Parcel Center:
67.007886°W 18.273705°N

Base Map: ESRI ArcGIS Online,
accessed May 2023
Updated: 5/26/2023
Layout: Site Location
Aprx: 72428_ReGrowTier2Maps





REGROW PROGRAM

Figure A-2: Site Vicinity

Applicant ID: PR-RGRW-01310

SWCA
ENVIRONMENTAL CONSULTANTS

- Site
- Site Parcel
- Project Footprint (Option)

Carretera 407 KM 3.7
Las Marías, Puerto Rico 00670

Parcel ID: 183-000-005-87-000
Parcel Center:
67.008265°W 18.273686°N

Base Map: ESRI ArcGIS Online,
accessed May 2023
Updated: 5/30/2023
Layout: Site Vicinity
Aprx: 72428_ReGrowTier2Maps



0 90 180 Feet
0 25 50 Meters

Figure A-3: Construction Plans

ZENITHAL
TUNNEL GREENHOUSE
30' X 72'

INDEX

SHEET NO.	DRAWING NO.	DESCRIPTION
1	T-1	TITLE
2	A-1	FLOOR PLAN
3	A-2	STRUCTURAL ASSEMBLY
4	A-3	STRUCTURAL ASEEMBY CONNECTION DETAILS
5	A-4	STRUCTURAL ASEEMBY CONNECTION DETAILS
6	A-5	STRUCTURAL ASEEMBY CONNECTION DETAILS



EMPRESAS AGRICOLAS SAN PABLO
PO BOX 1099 LARES, PR 00669
CARR. PR-129 SUR KM. 11.3
LARES, PUERTO RICO
TEL/FAX 787.897.7745

GENERAL NOTES:

This information is privileged, confidential, and exempt from disclosure under applicable law. If you are not the intended recipient of this drawing you are hereby notified that any disclosure, copying, distribution, or use of, or reliance on, the contents of this drawing is prohibited.

REVISION:

CONSTRUCTION PLAN AMENDMENT	3/20/2017
-----------------------------	-----------

PROJECT:

30' X 72'
Zenithal
Tunnel Greenhouse

OWNER:

DRAWN BY: J.M.Q. / NGB	FILE NAME: 0403070-2
SCALE: N.T.S.	DATE: 03/24/17

DRAWING NO.

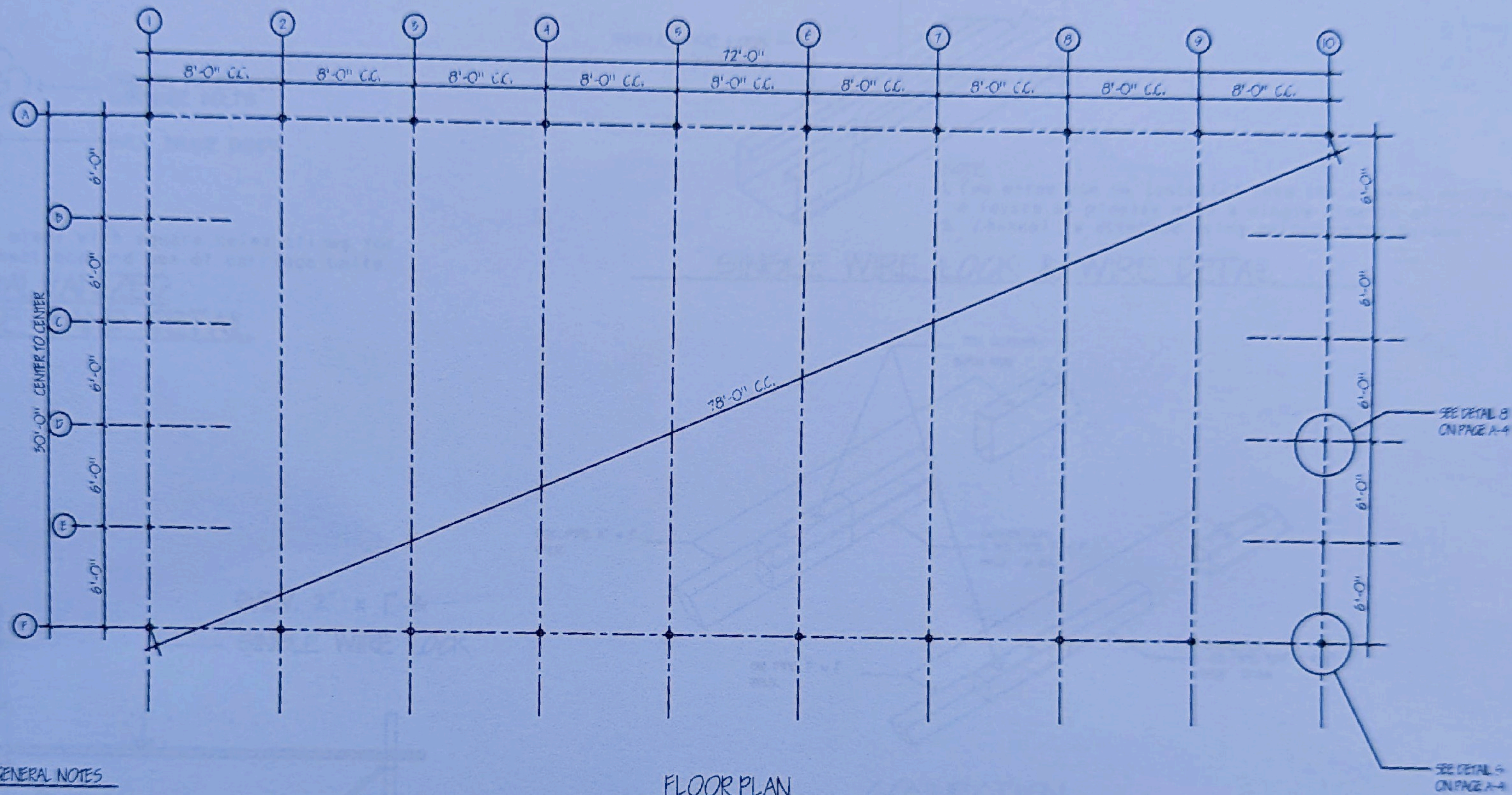
T-1

SHEET

1

OF

6



GENERAL NOTES

Structure:
Posts: 2-3/8" x 12 ga. each 8'-0" apart.
Bows: 1-7/8" x 16 ga. Bow Pipe each 8'-0" apart.
Purlins: 1-3/8" x 16 ga. pipe.
Brace: 1-3/8" x 16 ga. Endwall Truss Brace & Lateral Wind Brace.

End Walls: Posts 2" x 2" SQ. PIPE 14 ga. With Extensions that connect to the Arches.
A Sliding Door at one endwall, 6'-4" w. X 8'-4" h. covered with knitted Shade
see detail on page A-5.

Roof: Top (Roof Poly) Single Wire Lock & Wire.
Siderails: Single Single Wire Lock & Wire Along the Upper and Lower Parts.
End Walls: Single Single Wire Lock & Wire Along the Horizontal Truss and at the Bottom.
End Posts: Side Single Wire Lock & Wire All Along Corners Posts.

Greenhouse Cover:
Roof: Poly Plastic 6 mil. 4 years provides excellent durability and light transmission.
All Walls: Shade cover type Knitted Shade.

IMPORTANT NOTE

While our greenhouses are designed to withstand the elements, we can not guarantee the plastic cover for the storm event. Events that the wind exceeds 45 mph, we recommend removing the plastic covering the roof.

FLOOR PLAN

MATERIAL SPECIFICATION

Concrete: All Concrete with minimum strength 2,500 psi at 28 days.

All Pipe: All Cold-Formed Steel Members shall be Galvanized and shall have a Minimum yield Strength Specified.
Pipes:
2-3/8" x 12 ga. Pipe 60 ksi
2" x 2" SQ. PIPE 14 ga. Pipe 60 ksi
1-3/8" x 16 ga. Pipe 45 ksi
1-7/8" x 16 ga. Pipe 60 ksi
Other Members: Pipe 50 ksi

All Bolts: All Bolts shall Conform to ASTM Spec. A-325 or Grade 5 Bolt holes shall be bolt diameter plus 1/16" Max. unless otherwise noted on Plans.

Foundation: All footing shall rest on firm natural or compacted soil. Soil shall have a min. 2,500 psi bearing pressure.



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REVISION:

CONSTRUCTION PLAN
AMENDMENT 3/20/2017

PROJECT:

30' X 72'
Zenithal
Tunnel Greenhouse

DRAWN BY: J.M.Q. / NGB

FILE NAME: N.T.S.

DATE: 03/24/17

DRAWING NO.

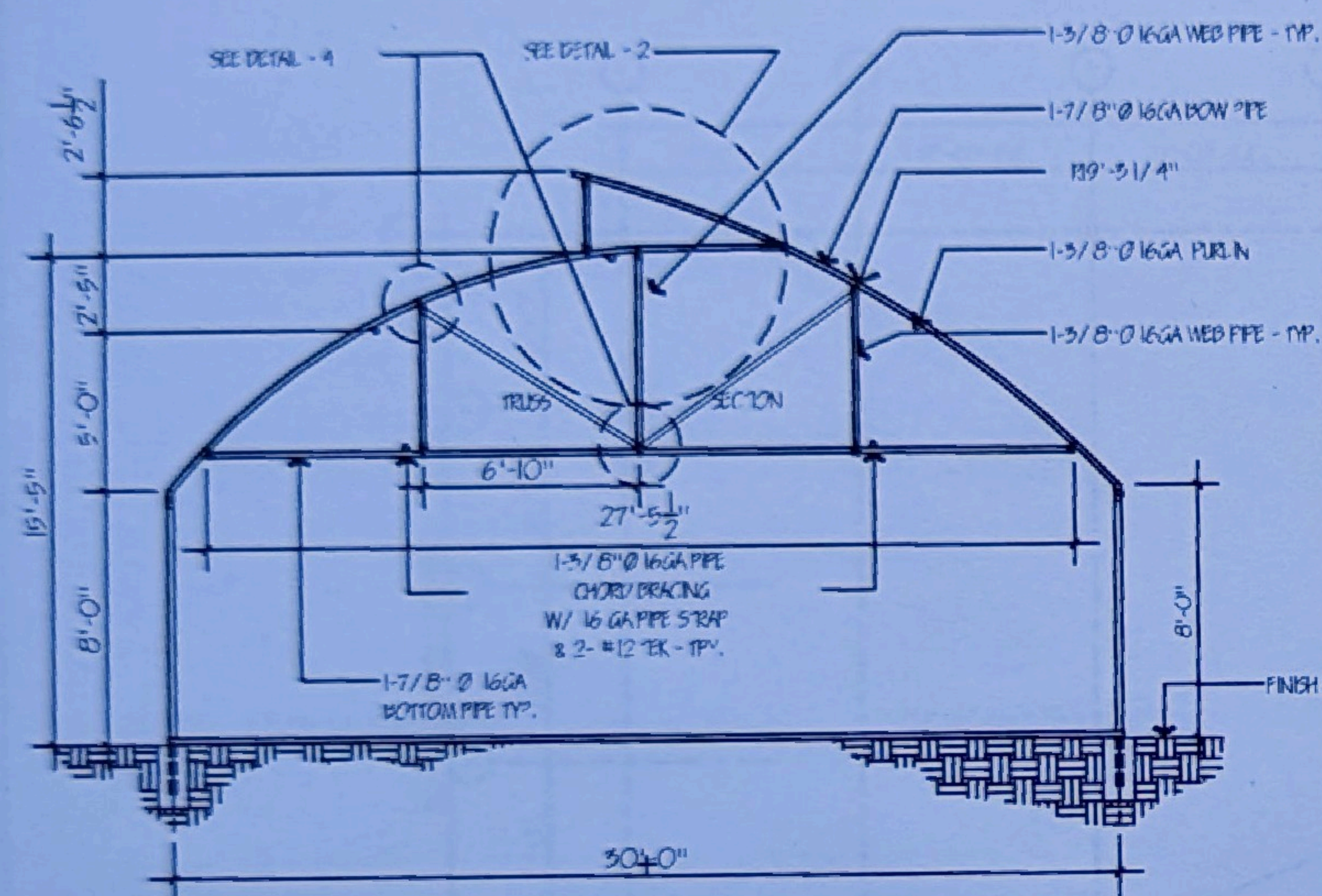
A-1

SHEET

2

OF

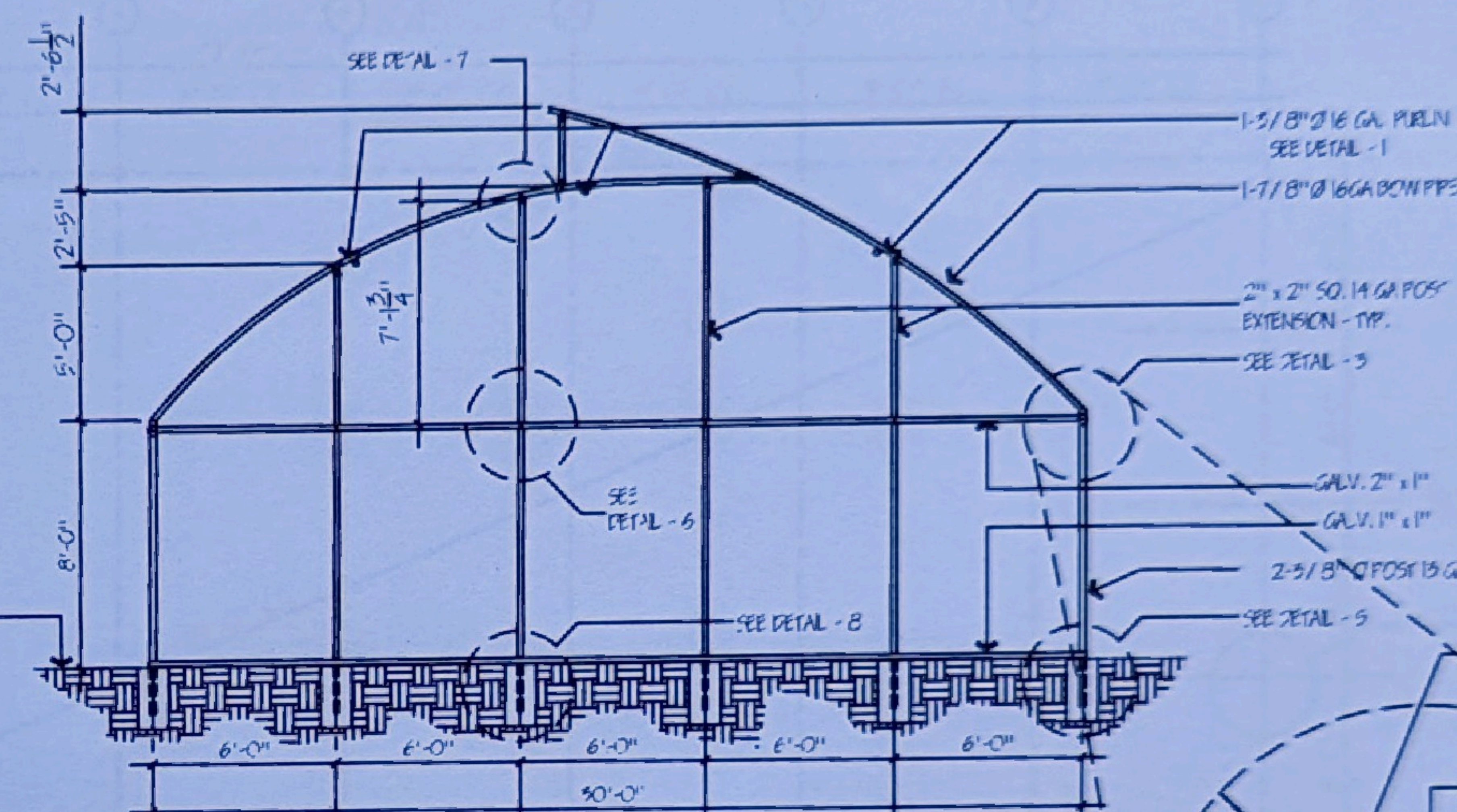
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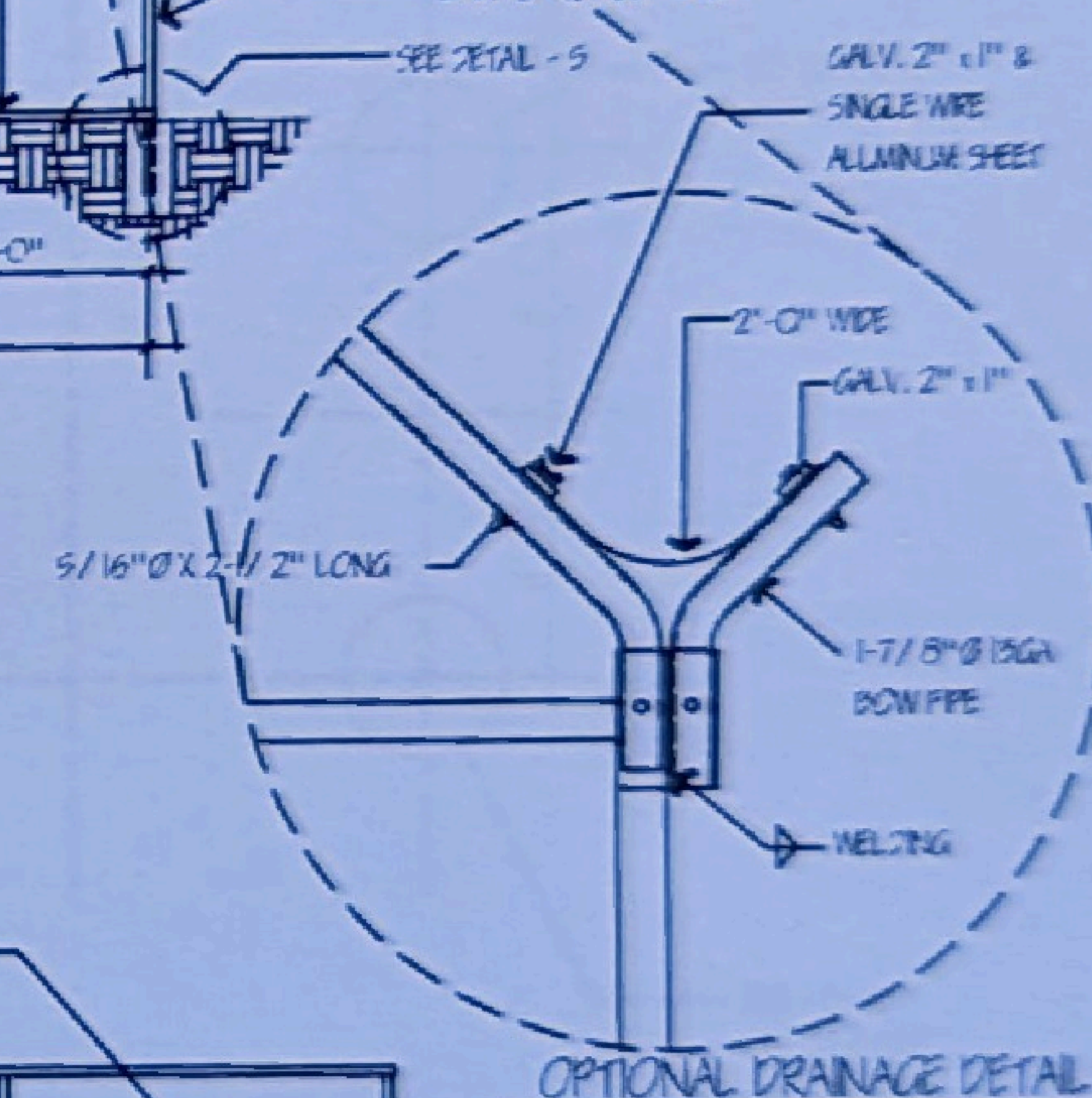
SECTION VIEW

(W/ DIAGONAL & HORIZONTAL BARS)

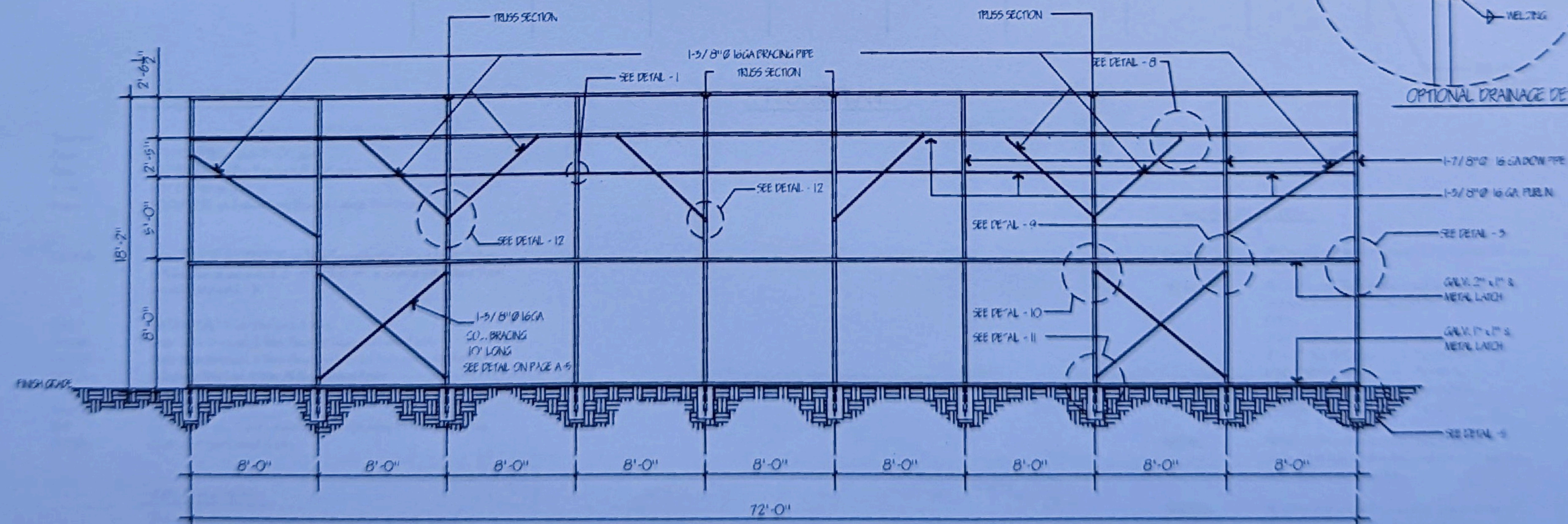
TRUSS SECTION CONSISTS OF:
Truss system: Lower chord: 1-3/8" Ø 16 ga. galvanized tube
Truss members: 1-3/8" Ø 16 ga. (5-piece in a "M" configuration)



END VIEW



OPTIONAL DRAINAGE DETAIL



SIDEWALL VIEW



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CARR. PR-129 SUR KM. 11.3
LARES, PUERTO RICO
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REVISION:

CONSTRUCTION PLAN AMENDMENT	3/20/2017
-----------------------------	-----------

PROJECT:

30' X 72'
Zenithal
Tunnel Greenhouse

OWNER:

DRAWN BY: JACQ/NGB	FILE NAME: 0003072-2
SCALE: N.T.S.	DATE: 03/24/17

DRAWING NO.

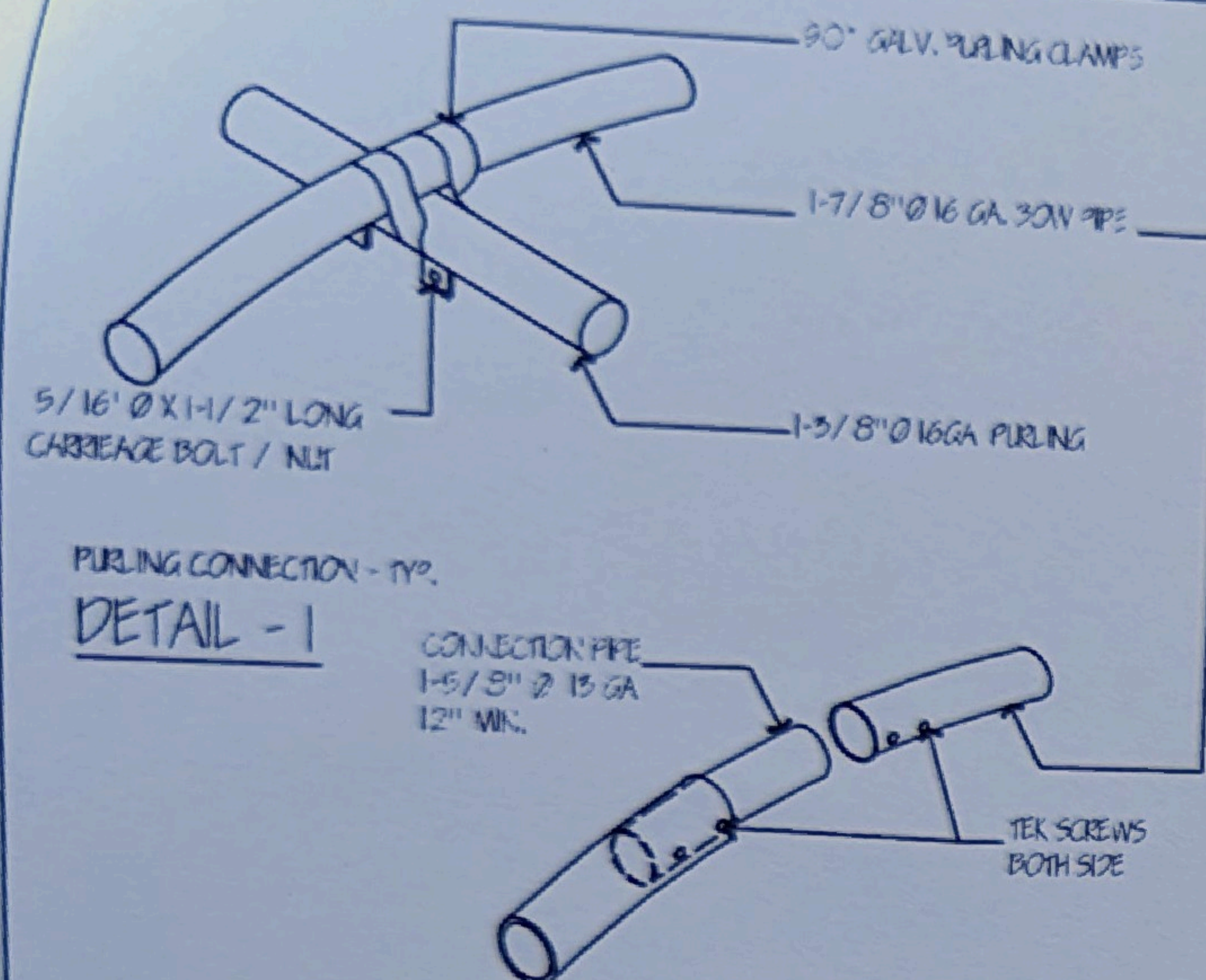
A-2

SHEET

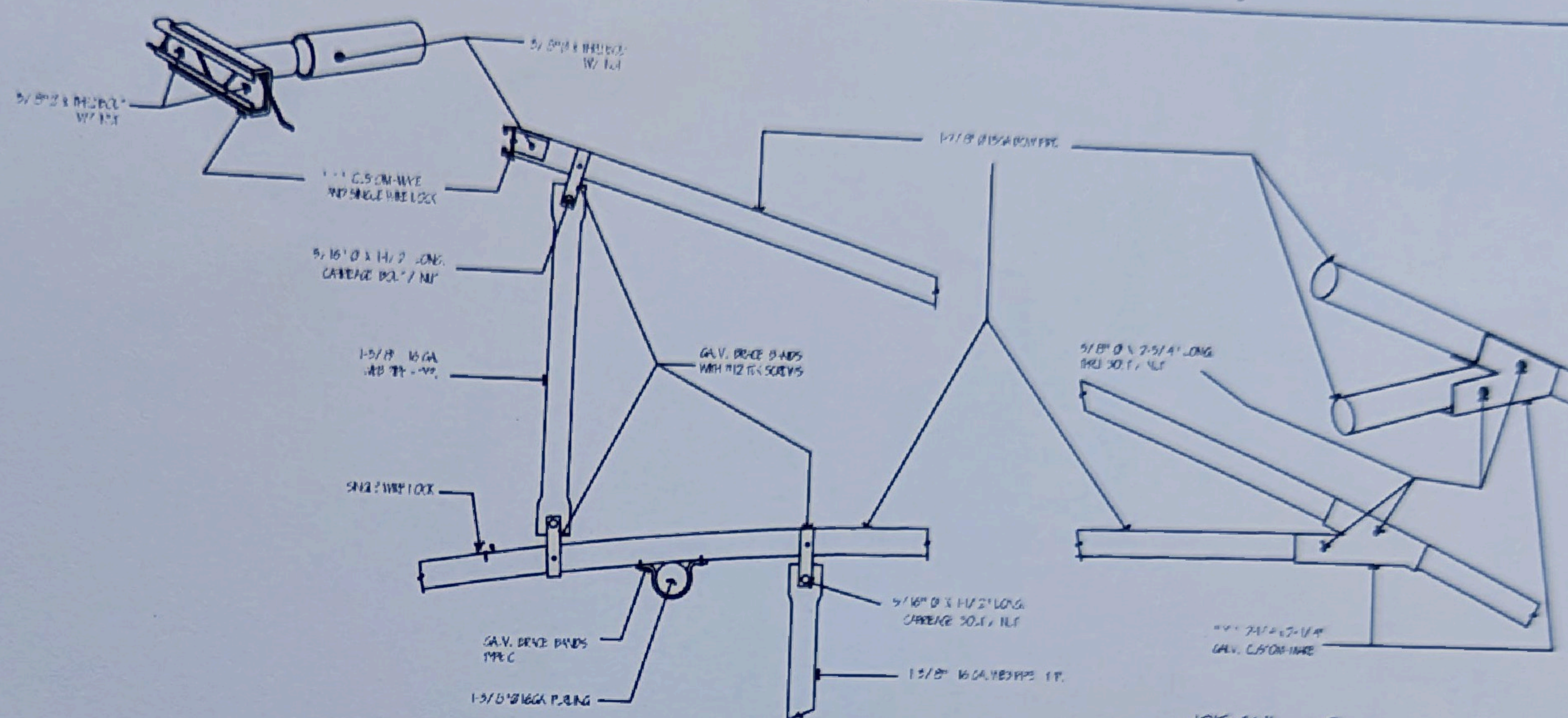
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OF

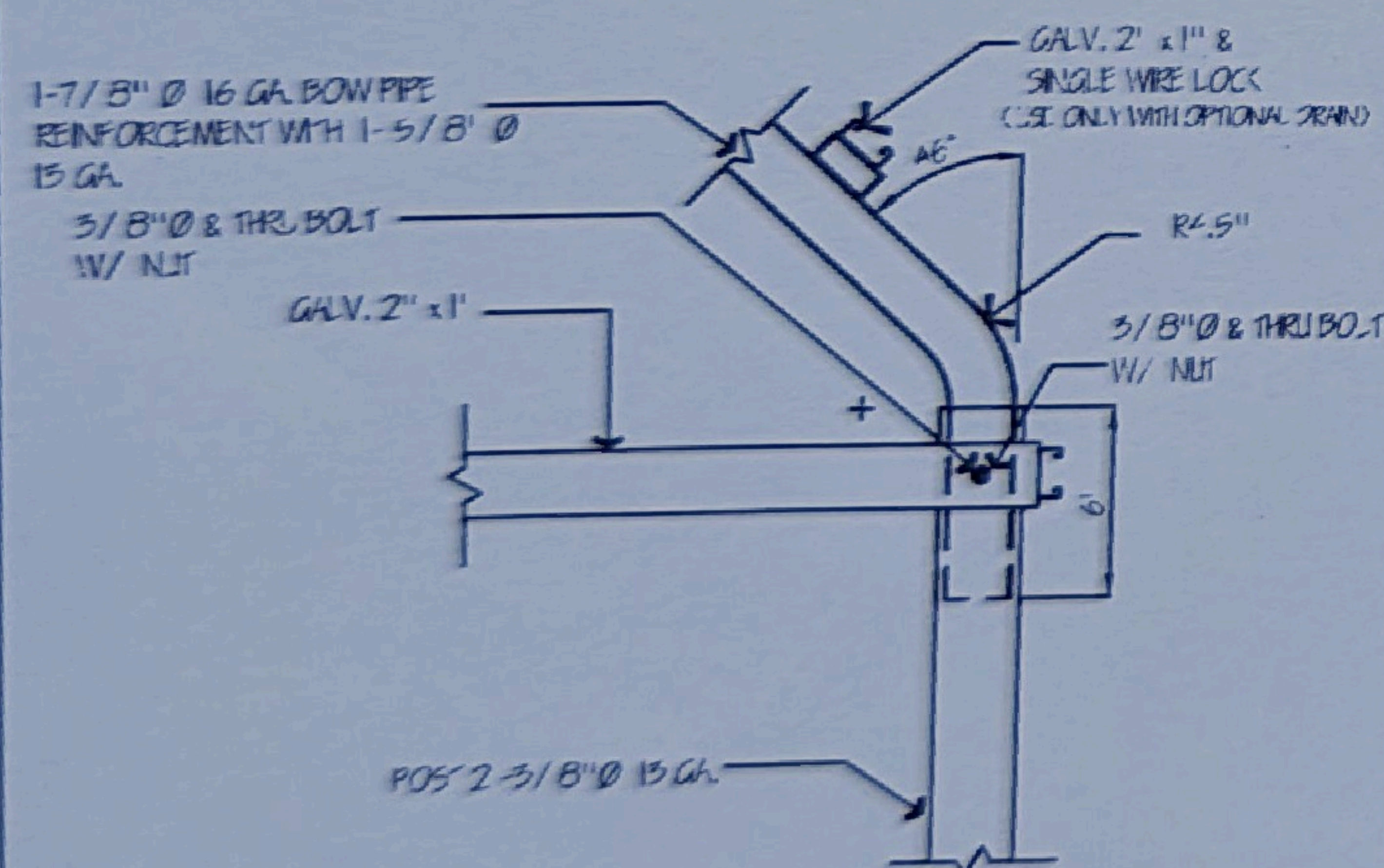
6



**BOW CONNECTION
DETAIL**

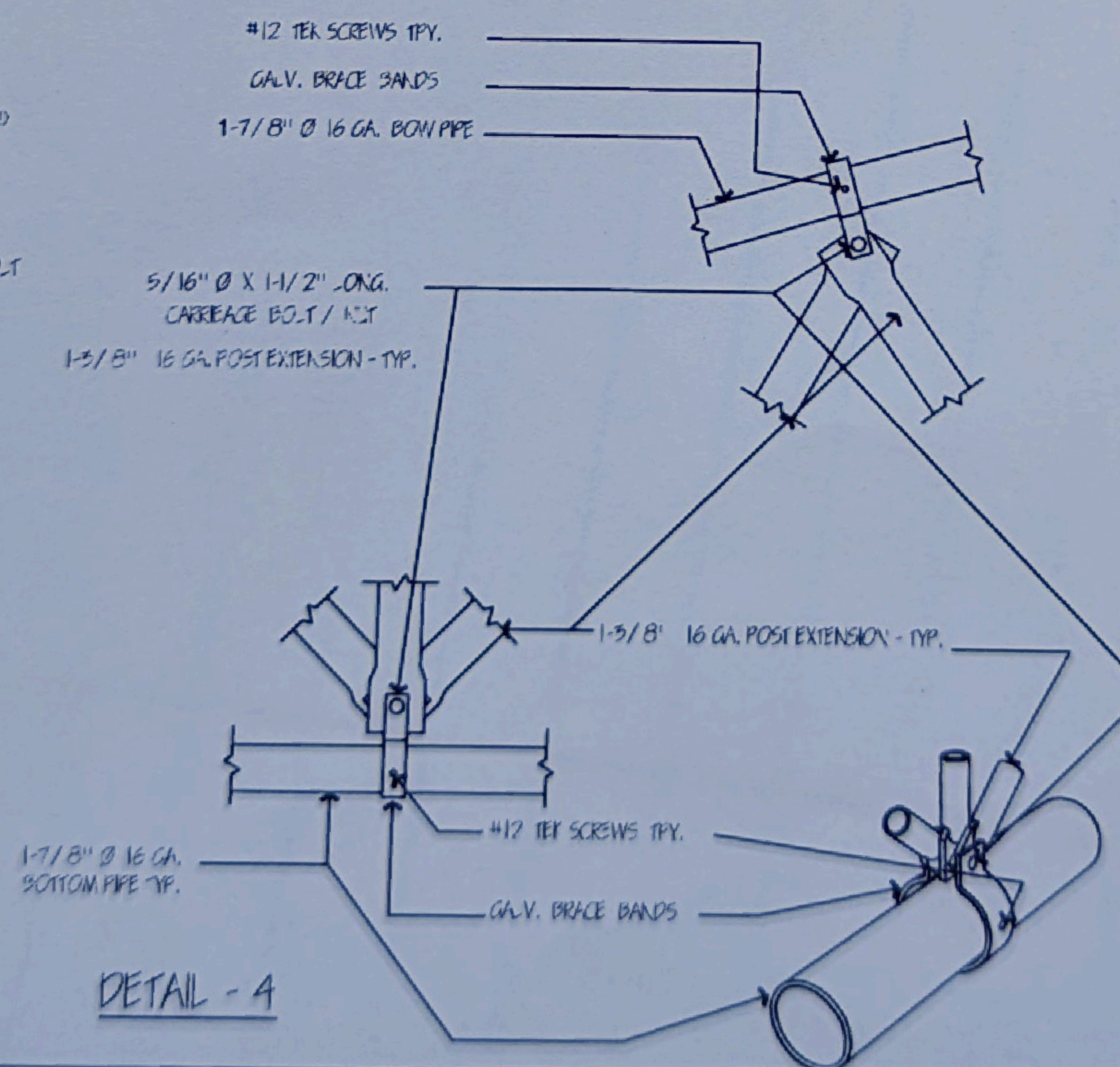


DETAIL - 2

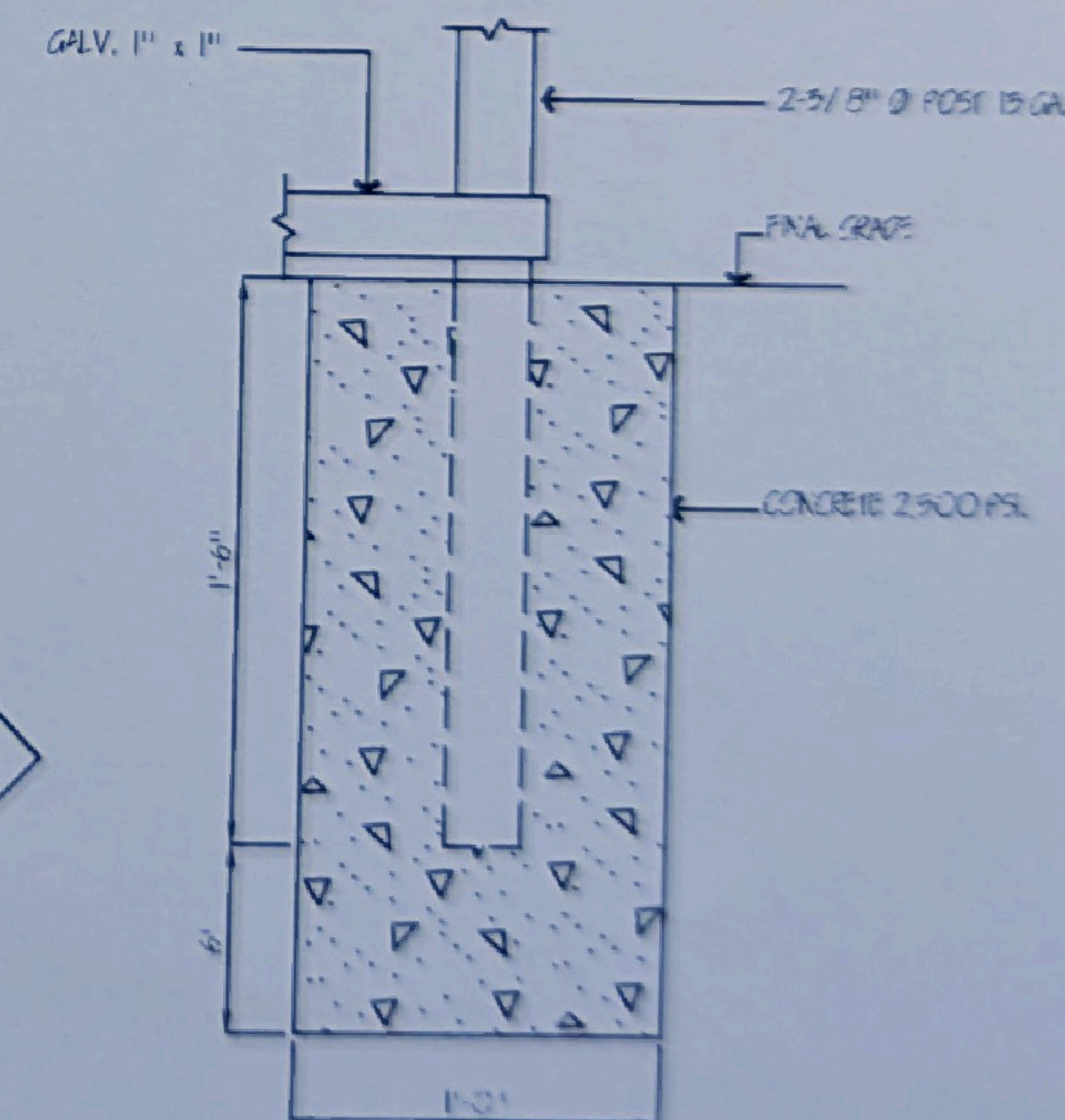


NOTE:
SHALL BE INSTALLED SCREW 5/8\"/>

DETAIL - 3



DETAIL - 4



DETAIL - 5



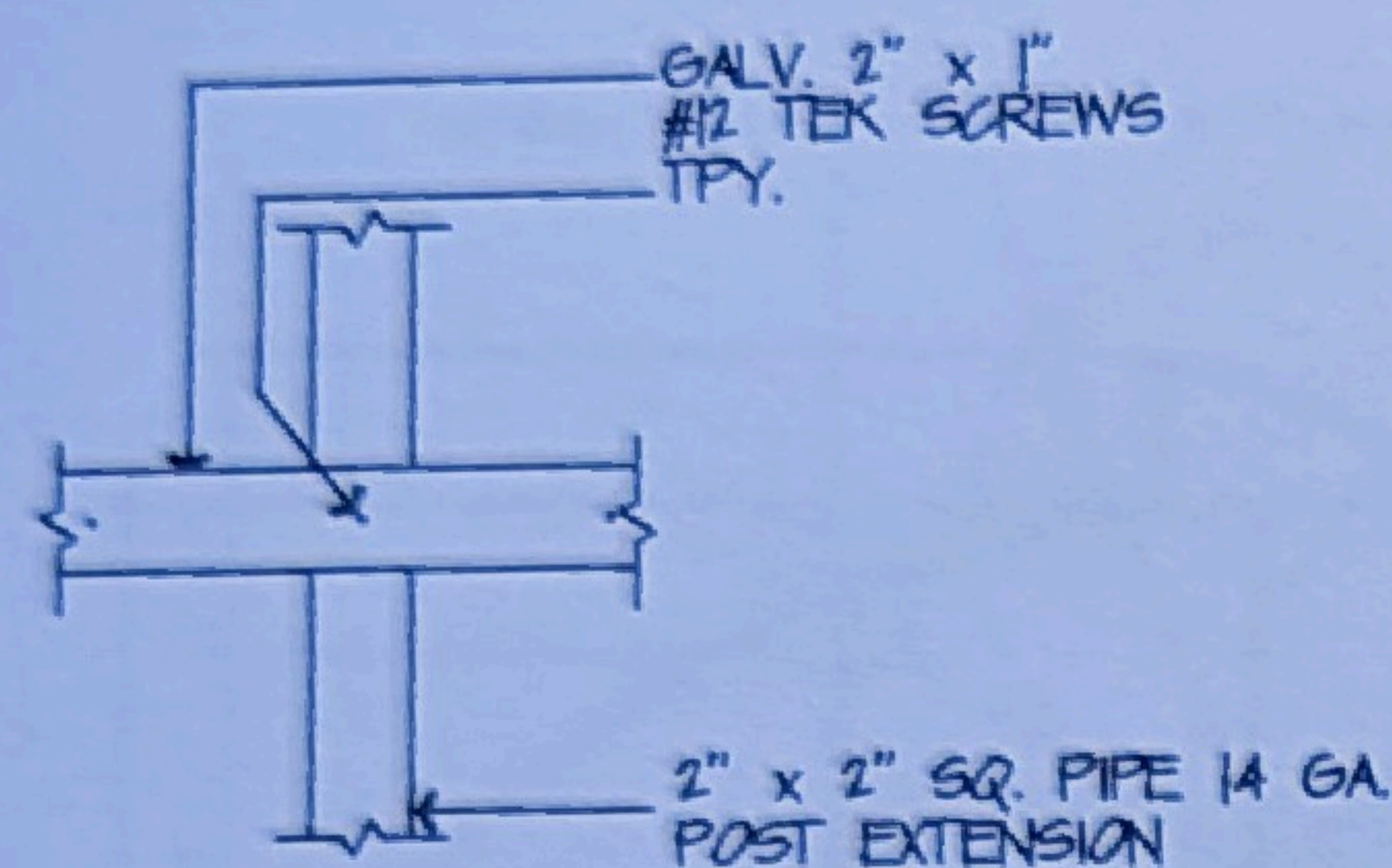
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CARR. PR-129 SUR KM. 11.3
LARES, PUERTO RICO
TEL/FAX 787.897.7745

GENERAL NOTES:

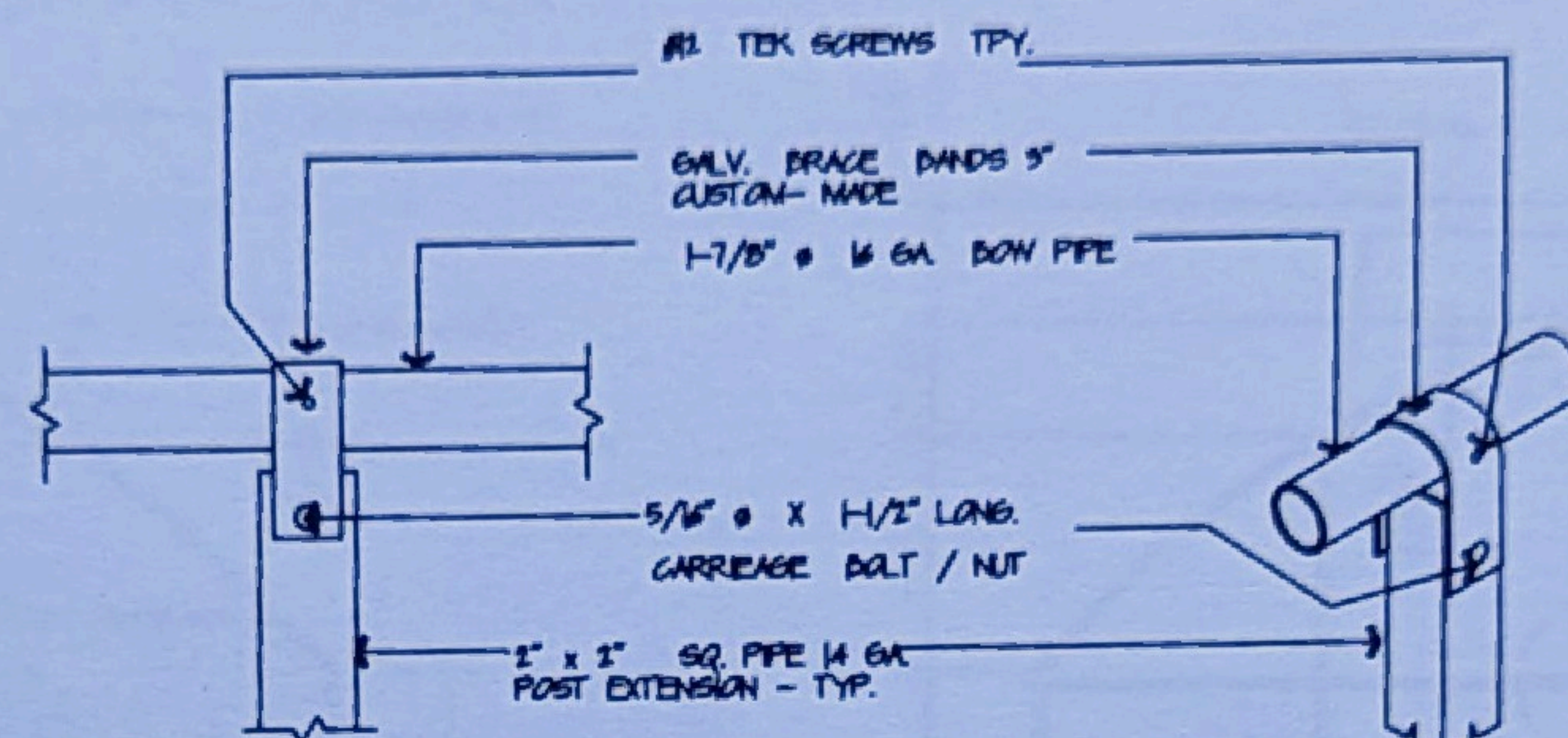
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REVISION:
CONSTRUCTION PLAN
AMENDMENT 3/20/2017

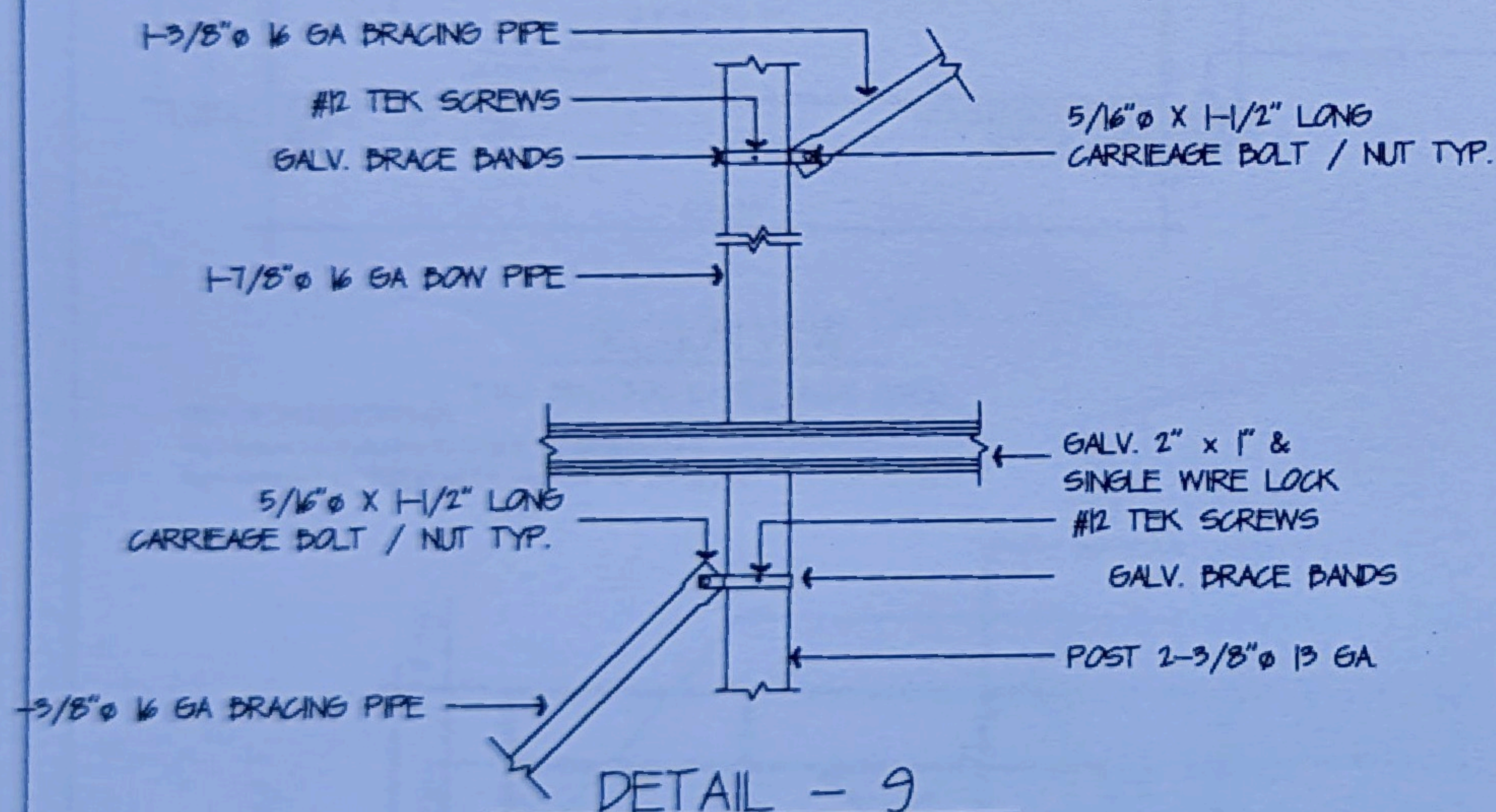
PROJECT:	
30' X 72' Zenithal Tunnel Greenhouse	
OWNER:	
DRAWN BY: JMO / NGB	FILE NAME: GH0070-2
SCALE: N.T.S.	DATE: 03/24/17
DRAWING NO. A-3	
SHEET 4	OF 6



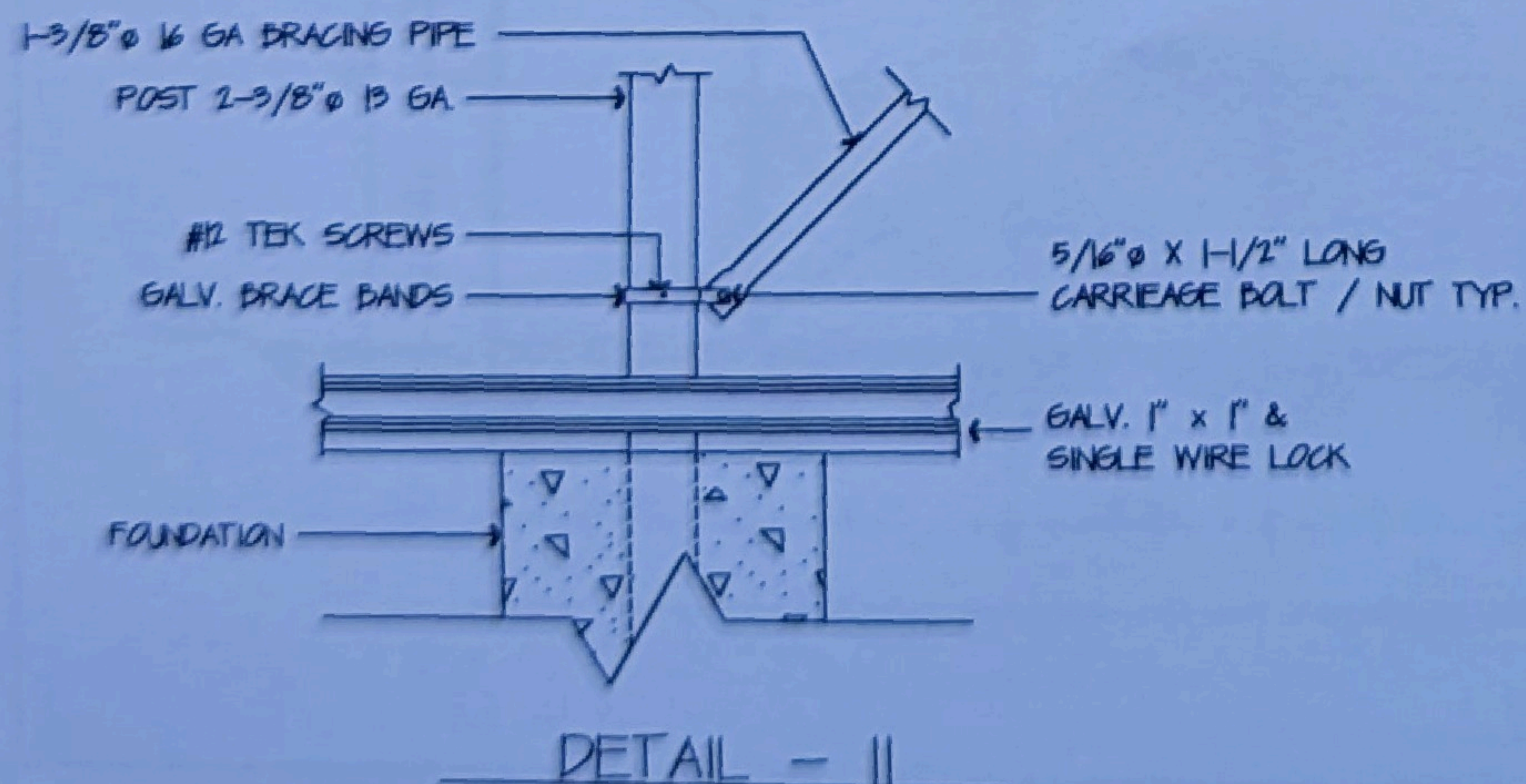
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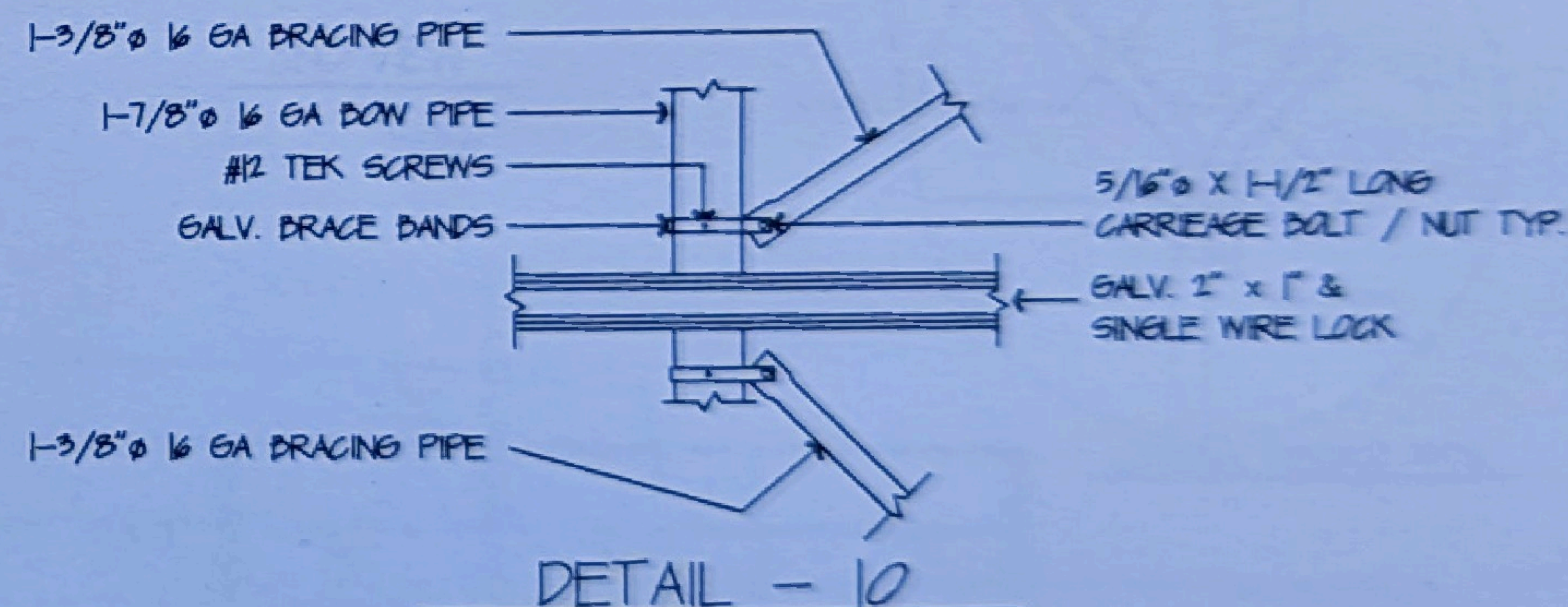
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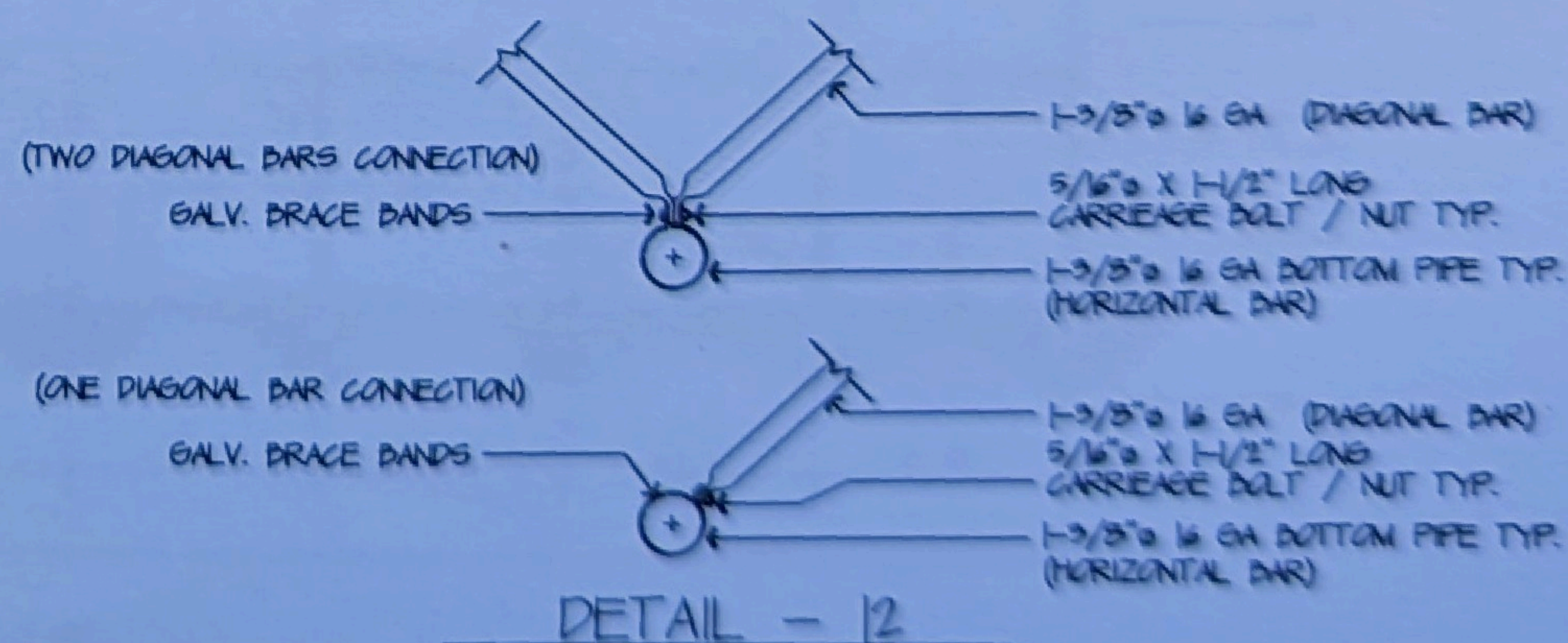
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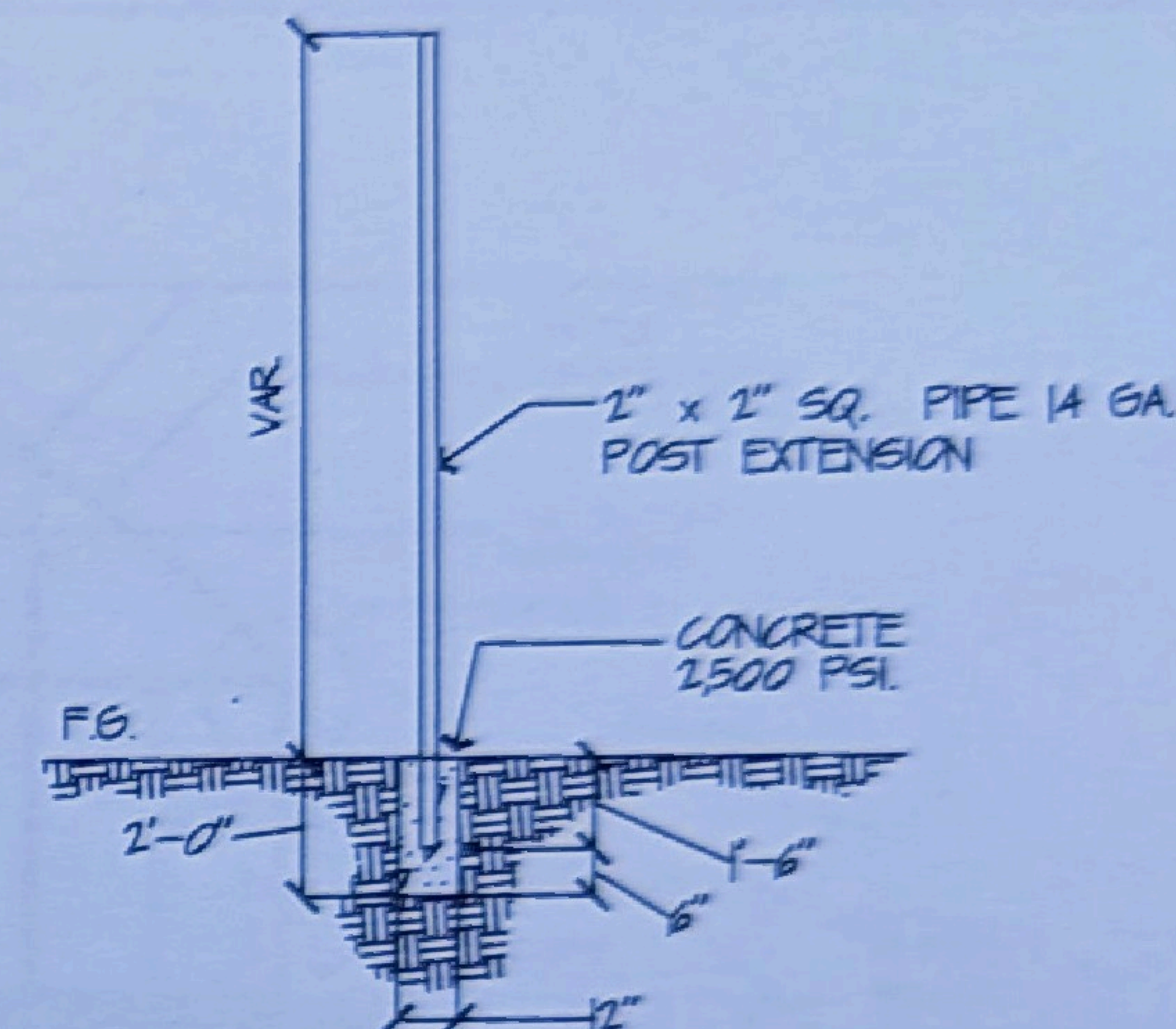
DETAIL - 11



DETAIL - 10



DETAIL - 12



DETAIL - 8



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LARES, PUERTO RICO
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REVISION:

CONSTRUCTION PLAN AMENDMENT	3/20/2017
-----------------------------	-----------

PROJECT:

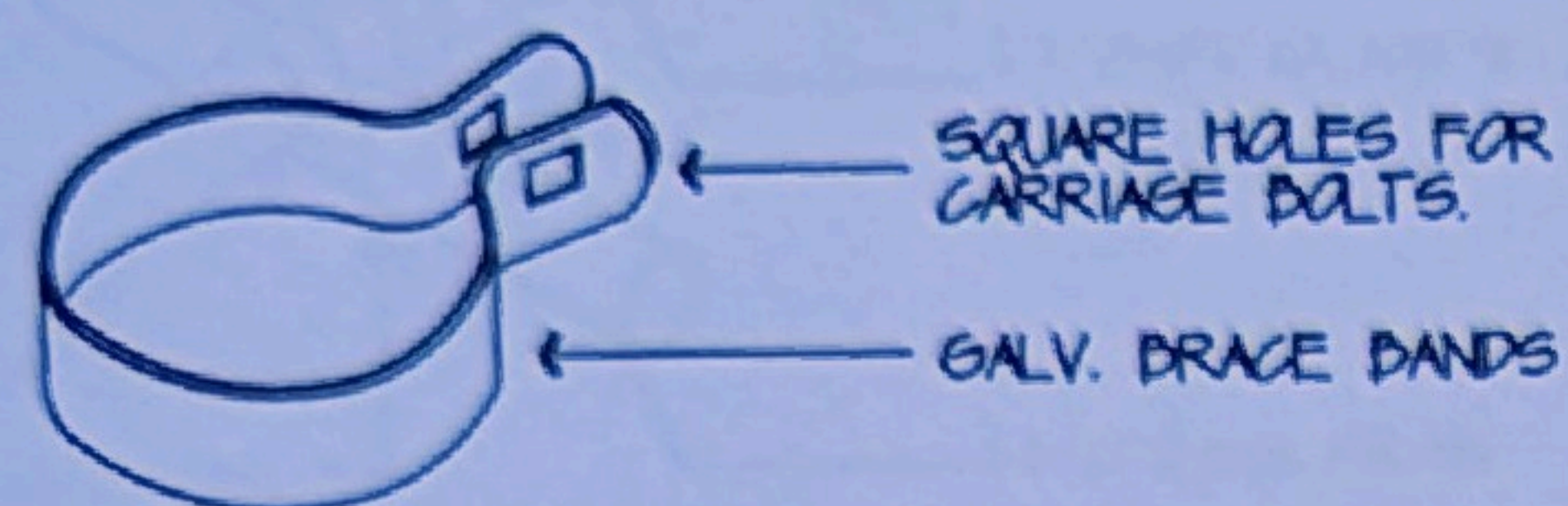
30' X 72'
Zenithal
Tunnel Greenhouse

DESIGNED BY: JAG/MSB	FILE NAME: GH0075-2
CHECKED BY: N.T.S.	DATE: 03/24/17

DRAWING NO.

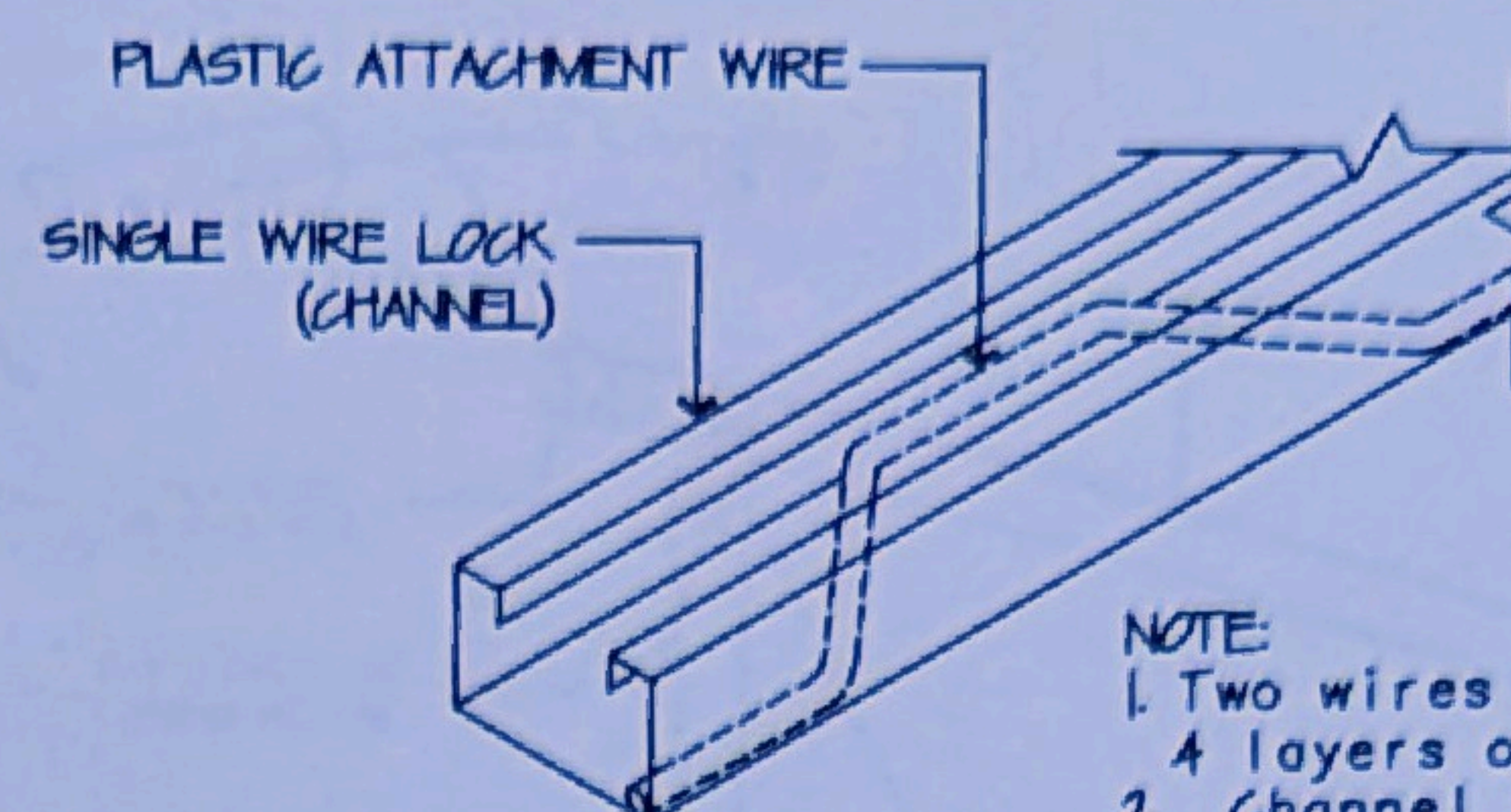
A-4

SHEET	OF
5	6



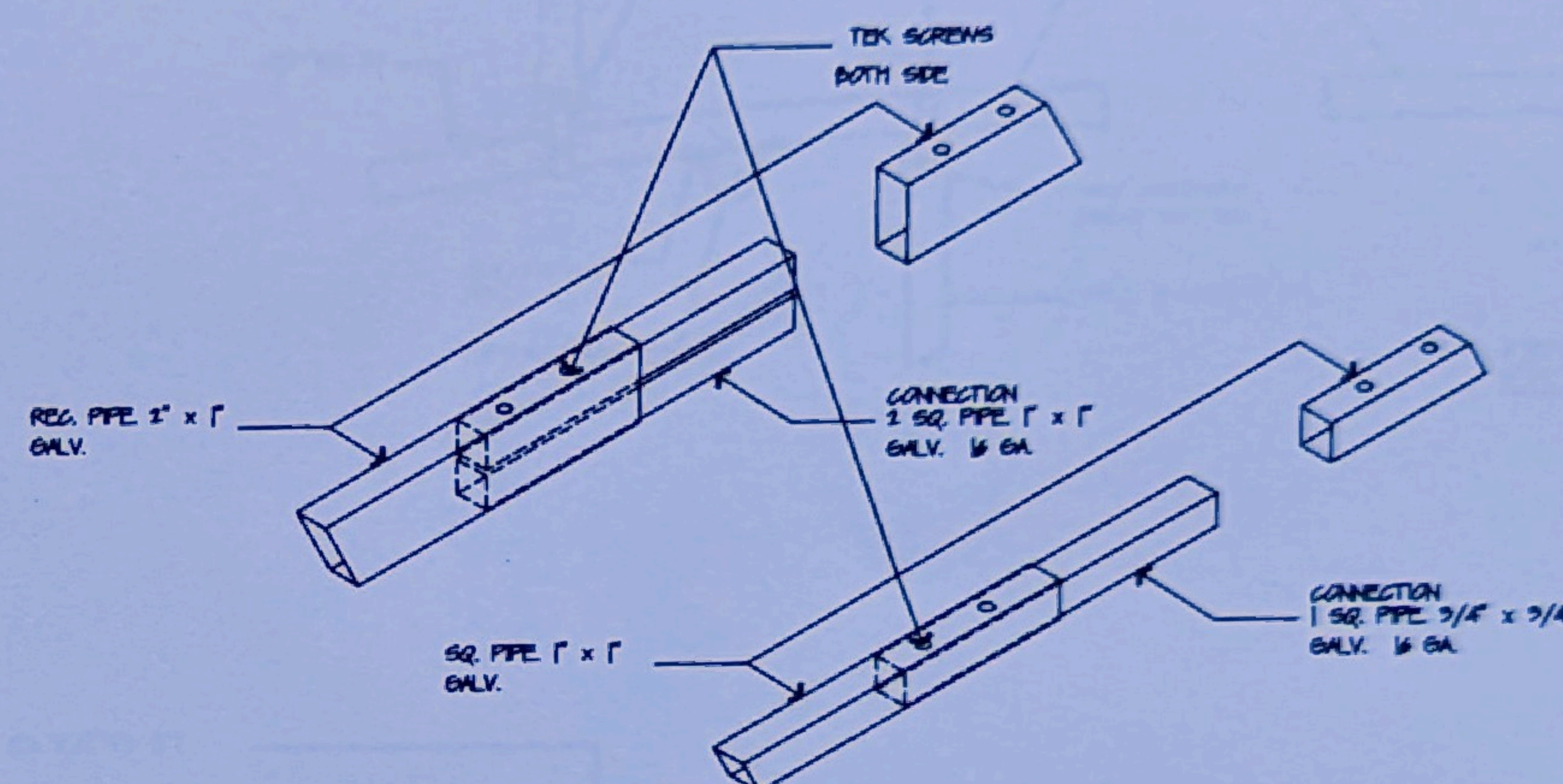
NOTE:
Galvanized steel with square holes allows for strong connections and use of carriage bolts.

GALVANIZED BRACE BAND DETAIL

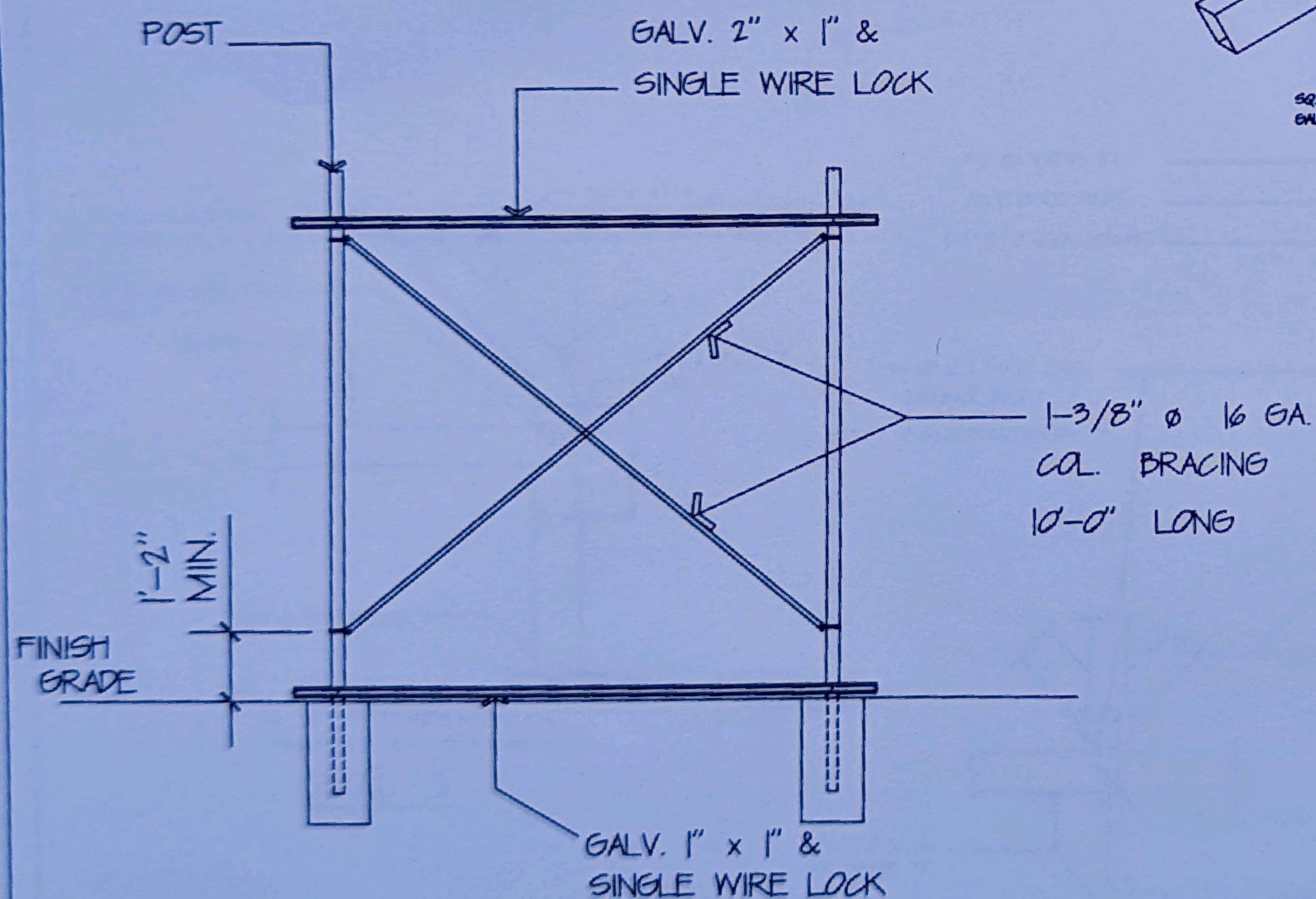


NOTE:
1. Two wires can be installed into the channel, securing up to 4 layers of plastic with a single plastic attachment channel.
2. Channel is attached using self-tapping screws

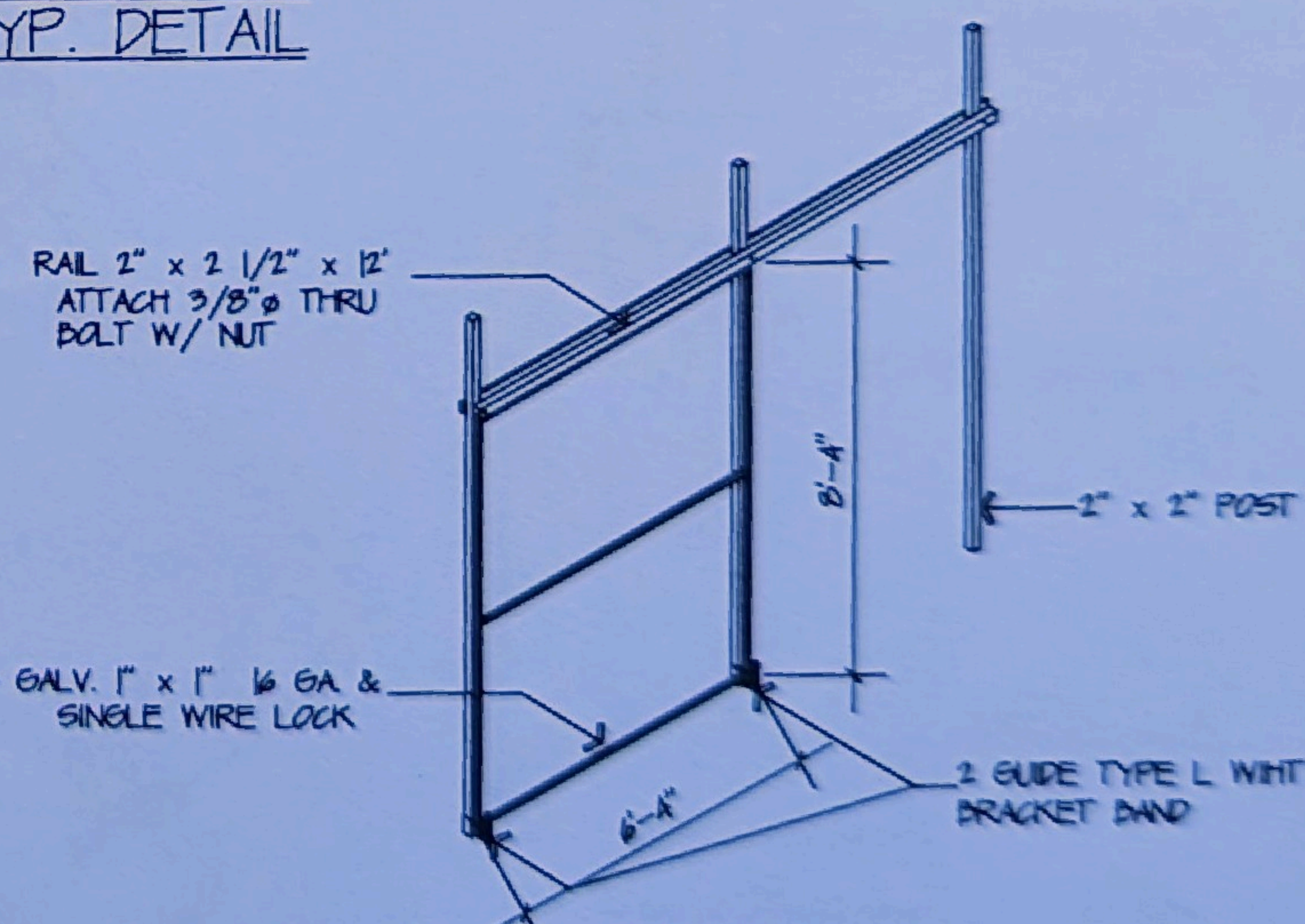
SINGLE WIRE LOCK & WIRE DETAIL



CONNECTION TYP. DETAIL



BRACING DETAIL



SLIDING DOOR DETAIL



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REVISION:

CONSTRUCTION PLAN AMENDMENT	3/20/2017
-----------------------------	-----------

PROJECT:

30" X 72"
Zenithal
Tunnel Greenhouse

OWNER:

OWNER: JAG/NOB	FILE NAME: GH0072-2
SCALE: N.T.S.	DATE: 03/24/17

DRAWING NO.

A-5

SHEET

6

OF

6



REGROW PROGRAM

Figure A-4: USGS Landslide Map

Applicant ID: PR-RGRW-01310

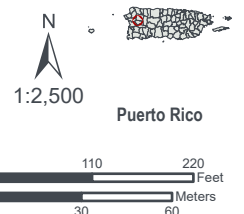
SWCA
ENVIRONMENTAL CONSULTANTS

- Site
- ▭ Site Parcel
- ▭ Project Footprint (Option)
- ▭ Greater than 25 Landslides per sq km
- ▭ Less than 25 Landslides per sq km
- ▭ No Landslides
- ▭ Not Examined

Carretera 407 KM 3.7
Las Marías, Puerto Rico 00670

Parcel ID: 183-000-005-87-000
Parcel Center:
67.007886°W 18.273705°N

Data Source: https://arcgis.cuahsi.org/arcgis/rest/services/MariaRAPID/Hurricane_Maria_Landslides/MapServer
Base Map: ESRI ArcGIS Online, accessed June 2023
Updated: 6/8/2023
Layout: Landslide



Appendix B

**Attachments and Supporting
Documentation**

Attachment 1

Airport Hazards Partner Worksheet and

Airport Hazards Map



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

This Worksheet was designed to be used by those “Partners” (including Public Housing Authorities, consultants, contractors, and nonprofits) who assist Responsible Entities and HUD in preparing environmental reviews, but legally cannot take full responsibilities for these reviews themselves. Responsible Entities and HUD should use the RE/HUD version of the Worksheet.

Airport Hazards (CEST and EA) – PARTNER

<https://www.hudexchange.info/environmental-review/airport-hazards>

- 1. To ensure compatible land use development, you must determine your site’s proximity to civil and military airports. Is your project within 15,000 feet of a military airport or 2,500 feet of a civilian airport?**

☒ No → *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide a map showing that the site is not within the applicable distances to a military or civilian airport.*

☐ Yes → *Continue to Question 2.*

- 2. Is your project located within a Runway Potential Zone/Clear Zone (RPZ/CZ) or Accident Potential Zone (APZ)?**

☐ Yes, project is in an APZ → *Continue to Question 3.*

☐ Yes, project is an RPZ/CZ → *Project cannot proceed at this location.*

☐ No, project is not within an APZ or RPZ/CZ

→ *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Continue to the Worksheet Summary below. Provide a map showing that the site is not within either zone.*

- 3. Is the project in conformance with DOD guidelines for APZ?**

☐ Yes, project is consistent with DOD guidelines without further action.

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

☐ No, the project cannot be brought into conformance with DOD guidelines and has not been approved. → *Project cannot proceed at this location.*

If mitigation measures have been or will be taken, explain in detail the proposed measures that must be implemented to mitigate for the impact or effect, including the timeline for implementation.

[Click here to enter text.](#)

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

Worksheet Summary

Provide a full description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your program or region

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

The project site is not within 2,500 feet of a civil primary or commercial service airport or within 15,000 feet of a military airport. The closest civil airport, Eugenio Maria de Hostos, is 9 miles west of the project site. Eugenio Maria de Hostos is a nonprimary commercial service airport. The closest joint civil-military airport, Luis Munoz Marin International, is 66 miles east of the project site.



REGROW PROGRAM

Figure B 1-1: Airport Hazards Map

Applicant ID: PR-RGRW-01310

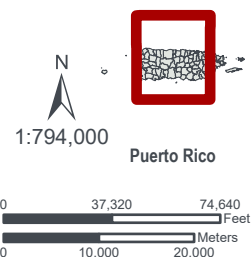
SWCA
ENVIRONMENTAL CONSULTANTS

- Site
- ▭ Airport Runway
- ▭ Accident Potential Zones (APZ)
- ▭ Runway Protection Zones (RPZ)
- ▭ 2,500-FT Civil Airport Buffer
- ▭ 15,000-FT Military Airport Buffer

Carretera 407 KM 3.7
Las Marías, Puerto Rico 00670

Parcel ID: 183-000-005-87-000
Parcel Center:
66.579025°W 18.34869°N

Data Source: <https://geodata.bts.gov/>
Base Map: ESRI ArcGIS Online,
accessed May 2023
Updated: 5/26/2023
Layout: Airport Hazards
Aprx: 72428_ReGrowTier2Maps



Attachment 2

Coastal Barrier Resources Act Partner Worksheet and Coastal Barrier Resources Map



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

This Worksheet was designed to be used by those “Partners” (including Public Housing Authorities, consultants, contractors, and nonprofits) who assist Responsible Entities and HUD in preparing environmental reviews, but legally cannot take full responsibilities for these reviews themselves. Responsible Entities and HUD should use the RE/HUD version of the Worksheet.

Coastal Barrier Resources (CEST and EA) – PARTNER

<https://www.hudexchange.info/environmental-review/coastal-barrier-resources>

Projects located in the following states must complete this form.

Alabama	Georgia	Massachusetts	New Jersey	Puerto Rico	Virgin Islands
Connecticut	Louisiana	Michigan	New York	Rhode Island	Virginia
Delaware	Maine	Minnesota	North Carolina	South Carolina	Wisconsin
Florida	Maryland	Mississippi	Ohio	Texas	

1. Is the project located in a CBRS Unit?

☒ No → *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide a map showing that the site is not within a CBRS Unit.*

☐ Yes → *Continue to 2.*

Federal assistance for most activities may not be used at this location. You must either choose an alternate site or cancel the project. In very rare cases, federal monies can be spent within CBRS units for certain exempted activities (e.g., a nature trail), after consultation with the Fish and Wildlife Service (FWS) (see [16 USC 3505](#) for exceptions to limitations on expenditures).

2. Indicate your recommended course of action for the RE/HUD

- ☐ Consultation with the FWS
- ☐ Cancel the project

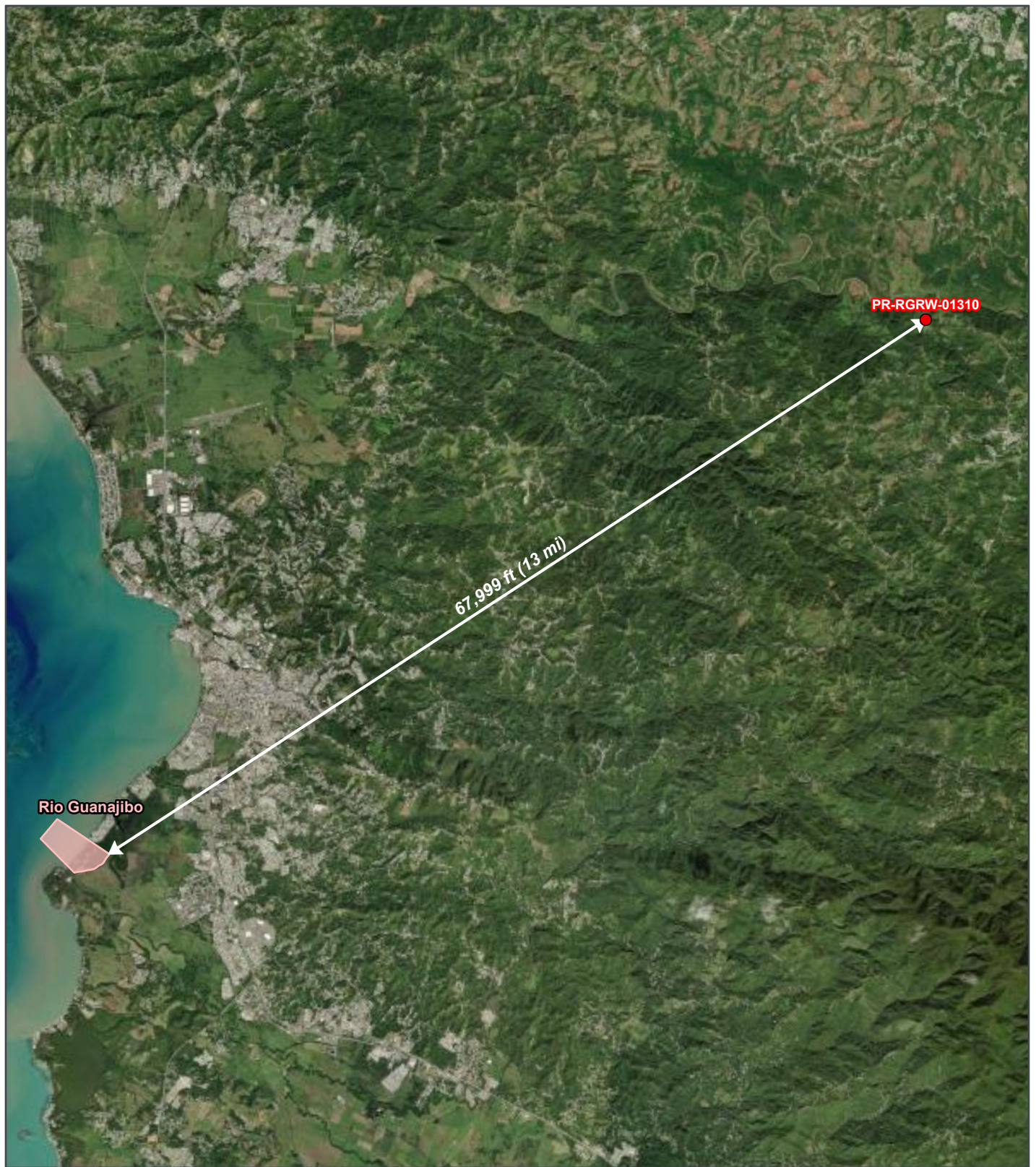
Worksheet Summary

Provide a full description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your program or region

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

The project site is not located in a Coastal Barrier Resource Systems (CBRS) Unit. The closest CBRS unit, Rio Guanajibo, is 13 miles southwest of the project site.



REGROW PROGRAM

Figure B 2-1: Coastal Barrier Resources Map

Applicant ID: PR-RGRW-01310

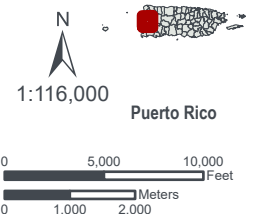
SWCA
ENVIRONMENTAL CONSULTANTS

- Site
- Otherwise Protected Area
- System Unit

Carretera 407 KM 3.7
Las Marías, Puerto Rico 00670

Parcel ID: 183-000-005-87-000
Parcel Center:
67.089744°W 18.222204°N

Data Source: <https://cbrsgis.wim.usgs.gov/arcgis/rest/services/CoastalBarrierResourcesSystem/MapServer>
Base Map: ESRI ArcGIS Online, accessed May 2023
Updated: 5/26/2023
Layout: Coastal Barrier Resources System



Attachment 3

**Flood Insurance Partner Worksheet and
Flood Insurance Rate Map**



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

This Worksheet was designed to be used by those “Partners” (including Public Housing Authorities, consultants, contractors, and nonprofits) who assist Responsible Entities and HUD in preparing environmental reviews, but legally cannot take full responsibilities for these reviews themselves. Responsible Entities and HUD should use the RE/HUD version of the Worksheet.

Flood Insurance (CEST and EA) – PARTNER

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

1. Does this project involve mortgage insurance, refinance, acquisition, repairs, rehabilitation, or construction of a structure, mobile home, or insurable personal property?

☒ No. This project does not require flood insurance or is excepted from flood insurance.

→ Continue to the Worksheet Summary.

☐ Yes → Continue to Question 2.

2. Provide a FEMA/FIRM map showing the site.

The Federal Emergency Management Agency (FEMA) designates floodplains. The [FEMA Map Service Center](#) provides this information in the form of FEMA Flood Insurance Rate Maps (FIRMs).

Is the structure, part of the structure, or insurable property located in a FEMA-designated Special Flood Hazard Area?

☐ No → Continue to the Worksheet Summary.

☐ Yes → Continue to Question 3.

3. Is the community participating in the National Flood Insurance Program or has less than one year passed since FEMA notification of Special Flood Hazards?

☐ Yes, the community is participating in the National Flood Insurance Program.

Flood insurance is required. Provide a copy of the flood insurance policy declaration or a paid receipt for the current annual flood insurance premium and a copy of the application for flood insurance.

→ Continue to the Worksheet Summary.

☐ Yes, less than one year has passed since FEMA notification of Special Flood Hazards.

If less than one year has passed since notification of Special Flood Hazards, no flood Insurance is required.

→ Continue to the Worksheet Summary.

☐ No. The community is not participating, or its participation has been suspended.

Federal assistance may not be used at this location. Cancel the project at this location.

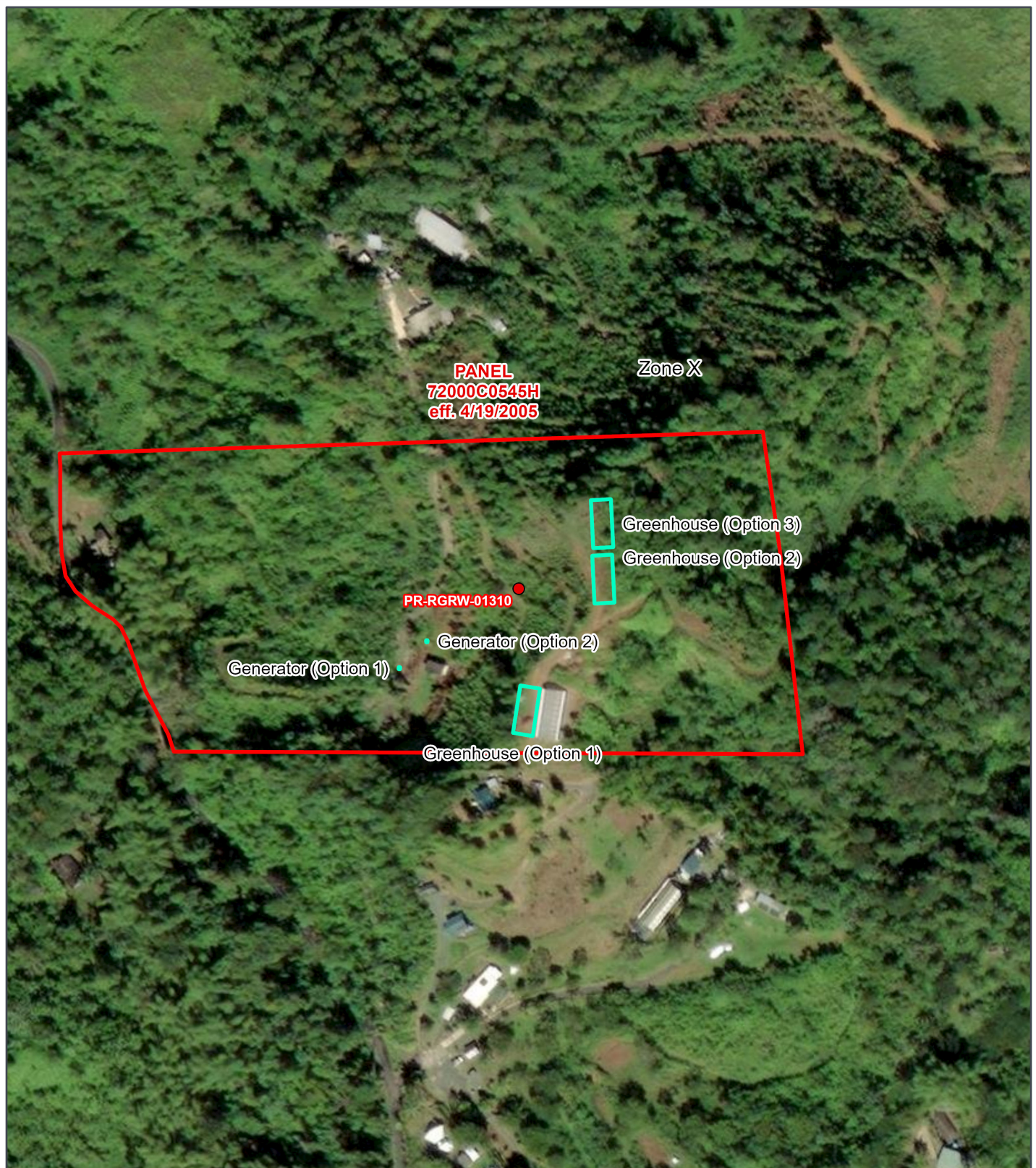
Worksheet Summary

Provide a full description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your program or region

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

A review of the FEMA Flood Insurance Rate Map (FIRM), Community Panel 72000C0545H (effective date 04/19/2005), shows the project site is in Flood Zone X, which is not in a Special Flood Hazard Area (SFHA). Flood insurance is not required.



REGROW PROGRAM

Figure B 3-1: Flood Insurance Rate Map (FIRM)

Applicant ID: PR-RGRW-01310

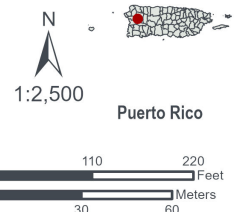
SWCA
ENVIRONMENTAL CONSULTANTS

- Site
- Site Parcel
- Project Footprint (Option)
- Base Flood Elevations
- Zone A
- Zone AE
- Zone AH
- Zone AO
- Zone VE
- Floodway
- Zone X - Shaded (500-year floodplain)
- Zone X - Unshaded
- Area Not Included
- Open Water

Carretera 407 KM 3.7
Las Marías, Puerto Rico 00670

Parcel ID: 183-000-005-87-000
Parcel Center:
67.007886°W 18.273705°N

Data Source: <https://hazards.fema.gov/gis/nfhl/rest/services/public/NFHL/MapServer>
Base Map: ESRI ArcGIS Online, accessed May 2023
Updated: 5/30/2023
Layout: Effective Floodplain
Aprx: 72428_ReGrowTier2Maps



Attachment 4

Air Quality Partner Worksheet, List of Non-Attainment/Maintenance Status Counties in Puerto Rico, and Clean Air Map



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

This Worksheet was designed to be used by those “Partners” (including Public Housing Authorities, consultants, contractors, and nonprofits) who assist Responsible Entities and HUD in preparing environmental reviews, but legally cannot take full responsibilities for these reviews themselves. Responsible Entities and HUD should use the RE/HUD version of the Worksheet.

Air Quality (CEST and EA) – PARTNER

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

1. Does your project include new construction or conversion of land use facilitating the development of public, commercial, or industrial facilities OR five or more dwelling units?

☒ Yes → Continue to Question 2.

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

2. Is your project’s air quality management district or county in non-attainment or maintenance status for any criteria pollutants?

Follow the link below to determine compliance status of project county or air quality management district:

<http://www.epa.gov/oagps001/greenbk/>

☒ No, project’s county or air quality management district is in attainment status for all criteria pollutants

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

☐ Yes, project’s management district or county is in non-attainment or maintenance status for one or more criteria pollutants. → Continue to Question 3.

3. Determine the estimated emissions levels of your project for each of those criteria pollutants that are in non-attainment or maintenance status on your project area. Will your project exceed any of the *de minimis* or *threshold* emissions levels of non-attainment and maintenance level pollutants or exceed the screening levels established by the state or air quality management district?

☐ No, the project will not exceed *de minimis* or threshold emissions levels or screening levels

→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Explain how you determined that the project would not exceed *de minimis* or threshold emissions.

☐ Yes, the project exceeds *de minimis* emissions levels or screening levels.

→ *Continue to Question 4. Explain how you determined that the project would not exceed de minimis or threshold emissions in the Worksheet Summary.*

- 4. For the project to be brought into compliance with this section, all adverse impacts must be mitigated. Explain in detail the exact measures that must be implemented to mitigate for the impact or effect, including the timeline for implementation.**

[Click here to enter text.](#)

Worksheet Summary

Provide a full description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your program or region

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

The project site is in Las Marías Municipio, which is within an U.S. Environmental Protection Agency (USEPA) designated attainment area. Project activities include construction of a new greenhouse and installation of a generator, and the project is not anticipated to have a negative impact on air quality and will not increase residential density. Emissions associated with the proposed actions are temporary and limited to the use of small construction equipment and will be well below the Federal General Conformity Rule de minimis thresholds.



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

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

Data is current as of February 28, 2023

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

* The 1997 Primary Annual PM-2.5 NAAQS (level of 15 µg/m³) is revoked in attainment and maintenance areas for that NAAQS. For additional information see the PM-2.5 NAAQS SIP Requirements Final Rule, effective October 24, 2016. (81 FR 58009)

Change the State:

PUERTO RICO

GO

Important Notes

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

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

Important Notes

Discover.

Connect.

Ask.

Follow.

2023-02-28



REGROW PROGRAM

Figure B 4-1: Clean Air Map

Applicant ID: PR-RGRW-01310

SWCA
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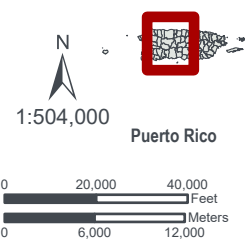
- Site
- ▨ 8-Hour Ozone (2015 Standard)*
- Lead (2008 Standard)
- PM-2.5 (2012 Standard)*
- Sulfur Dioxide (2010 Standard)

*No Data in Puerto Rico

Carretera 407 KM 3.7
Las Marías, Puerto Rico 00670

Parcel ID: 183-000-005-87-000
Parcel Center:
66.650943°W 18.240213°N

Data Source: https://geopub.epa.gov/arcgis/rest/services/NEPAAssist/NEPAVELayersPublic_fgdb/MapServer
Base Map: ESRI ArcGIS Online, accessed May 2023
Updated: 5/26/2023
Layout: Clean Air
Aprx: 72428_ReGrowTier2Maps



Attachment 5

Coastal Zone Management Partner Worksheet and Coastal Zone Map



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

This Worksheet was designed to be used by those “Partners” (including Public Housing Authorities, consultants, contractors, and nonprofits) who assist Responsible Entities and HUD in preparing environmental reviews, but legally cannot take full responsibilities for these reviews themselves. Responsible Entities and HUD should use the RE/HUD version of the Worksheet.

Coastal Zone Management Act (CEST and EA) – PARTNER

<https://www.onecpd.info/environmental-review/coastal-zone-management>

Projects located in the following states must complete this form.

Alabama	Florida	Louisiana	Mississippi	Ohio	Texas
Alaska	Georgia	Maine	New Hampshire	Oregon	Virgin Islands
American Samoa	Guam	Maryland	New Jersey	Pennsylvania	Virginia
California	Hawaii	Massachusetts	New York	Puerto Rico	Washington
Connecticut	Illinois	Michigan	North Carolina	Rhode Island	Wisconsin
Delaware	Indiana	Minnesota	Northern Mariana Islands	South Carolina	

1. Is the project located in, or does it affect, a Coastal Zone as defined in your state Coastal Management Plan?

☐ Yes → Continue to Question 2.

☒ No → If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide a map showing that the site is not within a Coastal Zone.

2. Does this project include activities that are subject to state review?

☐ Yes → Continue to Question 3.

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

3. Has this project been determined to be consistent with the State Coastal Management Program?

☐ Yes, with mitigation. → The RE/HUD must work with the State Coastal Management Program to develop mitigation measures to mitigate the impact or effect of the project.

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

☐ No → Project cannot proceed at this location.

Worksheet Summary

Provide a full description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your program or region

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

The project site is not located within the Puerto Rico Coastal Management Zone. The closest coastal zone area is 10 miles southwest of the project site.



REGROW PROGRAM

Figure B 5-1: Coastal Zone Management Map

Applicant ID: PR-RGRW-01310

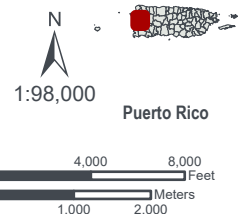
SWCA
ENVIRONMENTAL CONSULTANTS

- Site
- Coastal Management Zone

Carretera 407 KM 3.7
Las Marías, Puerto Rico 00670

Parcel ID: 183-000-005-87-000
Parcel Center:
67.077113°W 18.243844°N

Data Source: [https://coast.noaa.gov/arcgis/rest/services/Hosted/CoastalZoneManagementAct/Base Map](https://coast.noaa.gov/arcgis/rest/services/Hosted/CoastalZoneManagementAct/Base%20Map): ESRI ArcGIS Online, accessed May 2023
Updated: 5/30/2023
Layout: Coastal Zone Management
Aprx: 72428_ReGrowTier2Maps



Attachment 6

Contamination and Toxics Substances Partner Worksheet, and Toxics and Contamination Map



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

This Worksheet was designed to be used by those “Partners” (including Public Housing Authorities, consultants, contractors, and nonprofits) who assist Responsible Entities and HUD in preparing environmental reviews, but legally cannot take full responsibilities for these reviews themselves. Responsible Entities and HUD should use the RE/HUD version of the Worksheet.

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

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

1. How was site contamination evaluated? ¹ Select all that apply.

- ☐ ASTM Phase I ESA
- ☐ ASTM Phase II ESA
- ☐ Remediation or clean-up plan
- ☐ ASTM Vapor Encroachment Screening
- ☒ None of the above

→ Provide documentation and reports and include an explanation of how site contamination was evaluated in the Worksheet Summary.

Continue to Question 2.

2. Were any on-site or nearby toxic, hazardous, or radioactive substances found that could affect the health and safety of project occupants or conflict with the intended use of the property? (Were any recognized environmental conditions or RECs identified in a Phase I ESA and confirmed in a Phase II ESA?)

- ☒ No → Explain below.

Click here to enter text.

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

- ☐ Yes → Describe the findings, including any recognized environmental conditions (RECs), in Worksheet Summary below. Continue to Question 3.

3. Can adverse environmental impacts be mitigated?

¹ HUD regulations at 24 CFR § 58.5(i)(2)(ii) require that the environmental review for multifamily housing with five or more dwelling units or non-residential property include the evaluation of previous uses of the site or other evidence of contamination on or near the site. For acquisition and new construction of multifamily and nonresidential properties HUD strongly advises the review include an ASTM Phase I Environmental Site Assessment (ESA) to meet real estate transaction standards of due diligence and to help ensure compliance with HUD’s toxic policy at 24 CFR §58.5(i) and 24 CFR §50.3(i). Also note that some HUD programs require an ASTM Phase I ESA.

☐ Adverse environmental impacts cannot feasibly be mitigated → HUD assistance may not be used for the project at this site. Project cannot proceed at this location.

☐ Yes, adverse environmental impacts can be eliminated through mitigation.
→ *Provide all mitigation requirements² and documents. Continue to Question 4.*

4. Describe how compliance was achieved. Include any of the following that apply: State Voluntary Clean-up Program, a No Further Action letter, use of engineering controls³, or use of institutional controls⁴.

[Click here to enter text.](#)

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

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

→ *Continue to the Worksheet Summary.*

Worksheet Summary

Provide a full description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your program or region

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

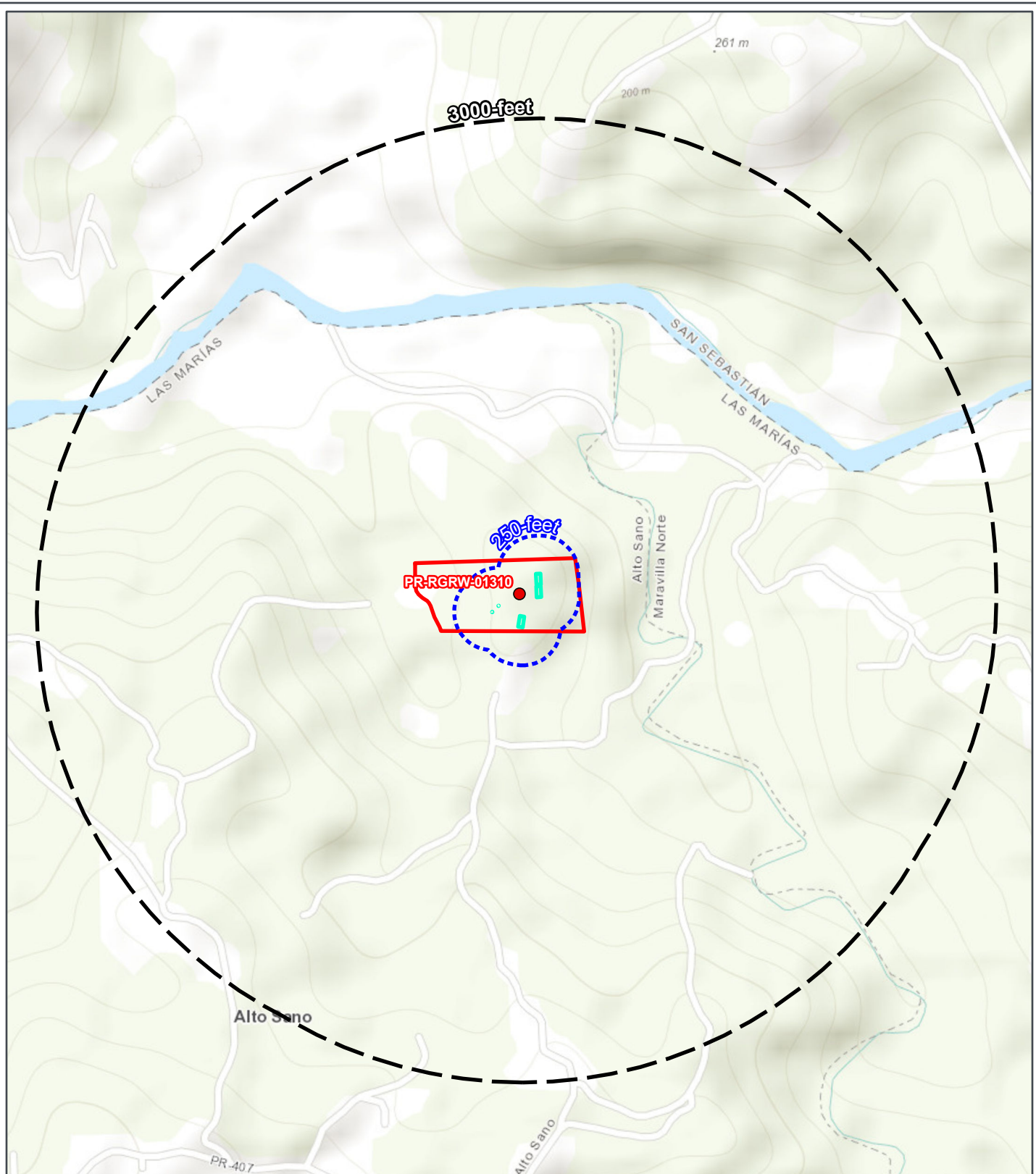
The project site was evaluated for potential contamination by conducting a field site inspection on January 30, 2023, to determine any onsite hazards including, but not limited to, soil staining, above ground storage tanks, signs of underground storage tanks, odors, hazardous debris, etc. The site inspection did not identify any onsite hazards that could not be resolved with mitigation.

In addition, a desktop review of EPA databases, NEPAAssist, and other sources was conducted to determine if the project site was located near dump sites, junk yards, landfills, hazardous waste sites, or industrial sites, including EPA National Priorities List Sites (Superfund sites), CERCLA or state-equivalent sites, RCRA Corrective Action sites with release(s) or suspected release(s) requiring clean-up action and/or further investigation. The desktop review did not identify any on-site toxic, hazardous or radioactive substances that could affect the health and safety of project occupants or conflict with the intended use of the property.

² Mitigation requirements include all clean-up actions required by applicable federal, state, tribal, or local law. Additionally, provide, as applicable, the long-term operations and maintenance plan, Remedial Action Work Plan, and other equivalent documents.

³ Engineering controls are any physical mechanism used to contain or stabilize contamination or ensure the effectiveness of a remedial action. Engineering controls may include, without limitation, caps, covers, dikes, trenches, leachate collection systems, signs, fences, physical access controls, ground water monitoring systems and ground water containment systems including, without limitation, slurry walls and ground water pumping systems.

⁴ Institutional controls are mechanisms used to limit human activities at or near a contaminated site, or to ensure the effectiveness of the remedial action over time, when contaminants remain at a site at levels above the applicable remediation standard which would allow for unrestricted use of the property. Institutional controls may include structure, land, and natural resource use restrictions, well restriction areas, classification exception areas, deed notices, and declarations of environmental restrictions.



REGROW PROGRAM

Figure B 6-1: Contamination and Toxic Substances Map

Applicant ID: PR-RGRW-01310

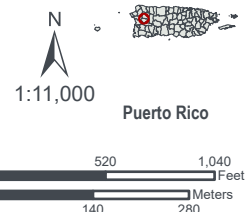
SWCA
ENVIRONMENTAL CONSULTANTS

- | | |
|------------------------------|--------------------------------|
| ● Site | ■ Toxic Substances Control Act |
| □ Site Parcel | ■ Toxic releases |
| □ Project Footprint (Option) | ■ Superfund |
| □ Buffer (250-feet) | ■ Hazardous waste |
| □ Buffer (3000-feet) | ■ Brownfields |
| □ Water dischargers | ■ Air pollution |

Carretera 407 KM 3.7
Las Marías, Puerto Rico 00670

Parcel ID: 183-000-005-87-000
Parcel Center:
67.007886°W 18.273705°N

Data Source: <https://geopub.epa.gov/arcgis/rest/services/EMEF/efpoints/MapServer>
Base Map: ESRI ArcGIS Online, accessed May 2023
Updated: 5/30/2023
Layout: Contamination and Toxic Substances



Attachment 7

**Endangered Species Act Partner
Worksheet, Threatened and Endangered
Species Technical Memorandum, USFWS
IPaC Species List, and Critical Habitat Map**



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

This Worksheet was designed to be used by those “Partners” (including Public Housing Authorities, consultants, contractors, and nonprofits) who assist Responsible Entities and HUD in preparing environmental reviews, but legally cannot take full responsibilities for these reviews themselves. Responsible Entities and HUD should use the RE/HUD version of the Worksheet.

Endangered Species Act (CEST and EA) – PARTNER

<https://www.hudexchange.info/environmental-review/endangered-species>

1. Does the project involve any activities that have the potential to affect species or habitats?

☐ No, the project will have No Effect due to the nature of the activities involved in the project.

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

☐ No, the project will have No Effect based on a letter of understanding, memorandum of agreement, programmatic agreement, or checklist provided by local HUD office.

Explain your determination:

[Click here to enter text.](#)

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

☒ Yes, the activities involved in the project have the potential to affect species and/or habitats. → Continue to Question 2.

2. Are federally listed species or designated critical habitats present in the action area?

Obtain a list of protected species from the Services. This information is available on the [FWS Website](#).

☐ No, the project will have No Effect due to the absence of federally listed species and designated critical habitat.

→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide any documents used to make your determination. Documentation may include letters from the Services, species lists from the Services’ websites, surveys or other documents and analysis showing that there are no species in the action area.

☒ Yes, there are federally listed species or designated critical habitats present in the action area. → Continue to Question 3.

3. Recommend one of the following effects that the project will have on federally listed species or designated critical habitat:

☒ No Effect: Based on the specifics of both the project and any federally listed species in the action area, you have determined that the project will have absolutely no effect on listed species or critical habitat.

→ *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide any documents used to make your determination. Documentation should include a species list and explanation of your conclusion, and may require maps, photographs, and surveys as appropriate.*

☐ May Affect, Not Likely to Adversely Affect: Any effects that the project may have on federally listed species or critical habitats would be beneficial, discountable, or insignificant.

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

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

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

Worksheet Summary

Provide a full description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your program or region

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

The Project involves activities that have the potential to affect species or habitats including but not limited to activities such as ground disturbance. Threatened, endangered, and migratory bird species were identified by reviewing data from the United States Fish and Wildlife Service (USFWS) Information and Planning Consultation (IPaC) Tool and the Puerto Rico Department of Natural and Environmental Resources (DNER) Species Ranges database. In addition, critical species habitat was reviewed through the USFWS IPaC, Critical Habitat Portal, and the DNER Puerto Rico State Wildlife Action Plan, a Ten-Year Review database. The review identified one federally listed species and nine state listed species with the potential to occur within the project area. Based on the site inspection and proposed project activities, the project will have No effect to all state and federally protected species.

The project activities will result in ground disturbing activities, including site grading, installation of a new generator, and construction of a new greenhouse. A qualified biologist reviewed the proposed activity locations and determined that there is no suitable habitat for any listed species within the project area; therefore, as currently designed, the proposed project activities will have No effect on any federally listed species or designated critical habitat.

See the attached Threatened and Endangered Species Technical Memorandum for more information.

TECHNICAL MEMORANDUM

For: Puerto Rico Department of Housing
CDBG-DR & CDBG-MIT Program
ReGrow Environmental Assessment

From: Susan Fischer, Wildlife Ecologist

Date: March 1, 2023

Re: **Threatened and Endangered Species Review for Carr.407 Km.3.7, Las Marías**

Applicant Name: Mariano Crespo Ramos
Site Address: Carr.407 Km.3.7, Las Marías
GPS Coordinates: 67.007886°W 18.273641°N

This Threatened and Endangered Species Review evaluates two options for the installation of a new generator and three options for the construction of a new greenhouse. This parcel is located at Carr.407 Km.3.7, Las Marías, Puerto Rico. To complete this review, the United States Fish and Wildlife Service's (USFWS) Information for Planning and Consultation (IPaC) system, Puerto Rico Department of Natural and Environmental Resources (DNER) Species Ranges, and Puerto Rico State Wildlife Action Plan_a Ten Year Review online mapping databases were consulted, then a site inspection performed to evaluate on-site nest and habitat potential. For the purposes of this review, the evaluation encompasses a maximum 100-foot buffer around the proposed project location options.

The species list for the site was generated by the USFWS Caribbean Ecological Services Field Office in Boqueron, Puerto Rico (attached). Since all project activities will occur on land, marine and aquatic species have been excluded from the evaluation. For any activities located near wetlands and/or waterbodies, best management practices (BMPs) will be implemented to prevent impacts to freshwater species. According to the IPaC results, the property is located within the habitat range of one terrestrial species considered to be threatened or endangered under the Endangered Species Act:

- Puerto Rican Boa (*Chilabothrus inornatus*)

A review of the Puerto Rico DNER Species Ranges online system indicated the following additional state-listed species may occur in within the review area:

- Mottled Coqui (*Eleutherodactylus eneidae*)
- Greater Antillean Long-tongued Bat (*Monophyllus redmani portoricensis*)
- White-crowned Pigeon (*Patagioenas leucocephala*)
- Brown Pelican (*Pelecanus occidentalis*)
- Sooty Mustachioed Bat (*Pteronotus quadridens*)
- Elfin Woods Warbler (*Setophaga angelae*)
- Red Siskin (*Carduelis cucullate*)

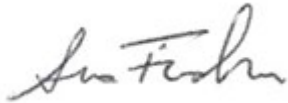
- Puerto Rican Skink (*Spondylurus nitidus*)
- Puerto Rican Vireo (*Vireo latimeri*)

A site inspection on January 30, 2023 found the parcel is situated in a rural area. The property is used for agricultural production and the lot consists of a mix of cleared, agricultural, and forested areas. The proposed project area consists of open fields with dense grasses and some trees along the periphery. Representative photographs of the subject property are included in the Environmental Field Assessment Photographic Log. The review area does contain trees and vegetation that could provide suitable habitat to multiple federal- and state-listed species; however, no tree or vegetation removal is planned to occur, and inspectors did not observe any suitable ground or vegetative habitat, individuals, or nests for any listed species at the proposed project location. There is no critical habitat for any species found within the subject property based on the USFWS and Puerto Rico State Wildlife Action Plan_a Ten Year Review databases.

Based on agency data and site observations, this review concludes that the installation of the new generator and greenhouse on the parcel will result in *no effect* to all state and federally protected species with the potential to occur in the area. If a Puerto Rican Boa is found in the project activity site, work shall cease until the Boa moves off on its own. If the Boa does not move off, the Construction Manager shall contact the Puerto Rico DNER and ask for them to relocate the Boa.

I can be reached by phone (346-388-1157) or email (Susan.Fischer@swca.com) with any questions or concerns.

Sincerely,

A handwritten signature in dark ink, appearing to read "Susan Fischer", written in a cursive style.

Susan Fischer
Wildlife Ecologist
SWCA Environmental Consultants

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

Las Marías County, Puerto Rico



Local office

Caribbean Ecological Services Field Office

☎ (787) 834-1600

📅 (787) 851-7440

✉ CARIBBEAN_ES@FWS.GOV

MAILING ADDRESS

Post Office Box 491

Boqueron, PR 00622-0491

PHYSICAL ADDRESS

Office Park I

State Road #2 Km 156.5, Suite 303}

Mayaguez, PR 00680

NOT FOR CONSULTATION

Endangered species

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

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

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

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

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

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

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact [NOAA Fisheries](#) for [species under their jurisdiction](#).

-
1. Species listed under the [Endangered Species Act](#) are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the [listing status page](#) for more information. IPaC only shows species that are regulated by USFWS (see FAQ).

2. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

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

Reptiles

NAME	STATUS
Puerto Rican Boa <i>Chilabothrus inornatus</i> Wherever found No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/6628	Endangered

Critical habitats

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

There are no critical habitats at this location.

Migratory birds

Certain birds are protected under the Migratory Bird Treaty Act¹ and the Bald and Golden Eagle Protection Act².

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:

- Birds of Conservation Concern <https://www.fws.gov/program/migratory-birds/species>
- 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>

There are no migratory birds of conservation concern expected to occur at this location.

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

[Nationwide Conservation Measures](#) describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. [Additional measures](#) or [permits](#) may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

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

The Migratory Bird Resource List is comprised of USFWS [Birds of Conservation Concern \(BCC\)](#) and other species that may warrant special attention in your project location.

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

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

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

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

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

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

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may query your location using the [RAIL Tool](#) and look at the range maps provided for birds in your area at the bottom of the profiles provided for each bird in your results. If a bird

on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?

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

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

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

Details about birds that are potentially affected by offshore projects

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

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

What if I have eagles on my list?

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

Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is

the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

Facilities

National Wildlife Refuge lands

Any activity proposed on lands managed by the [National Wildlife Refuge](#) system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

There are no refuge lands at this location.

Fish hatcheries

There are no fish hatcheries at this location.

Wetlands in the National Wetlands Inventory (NWI)

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

For more information please contact the Regulatory Program of the local [U.S. Army Corps of Engineers District](#).

This location did not intersect any wetlands mapped by NWI.

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

Data limitations

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

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

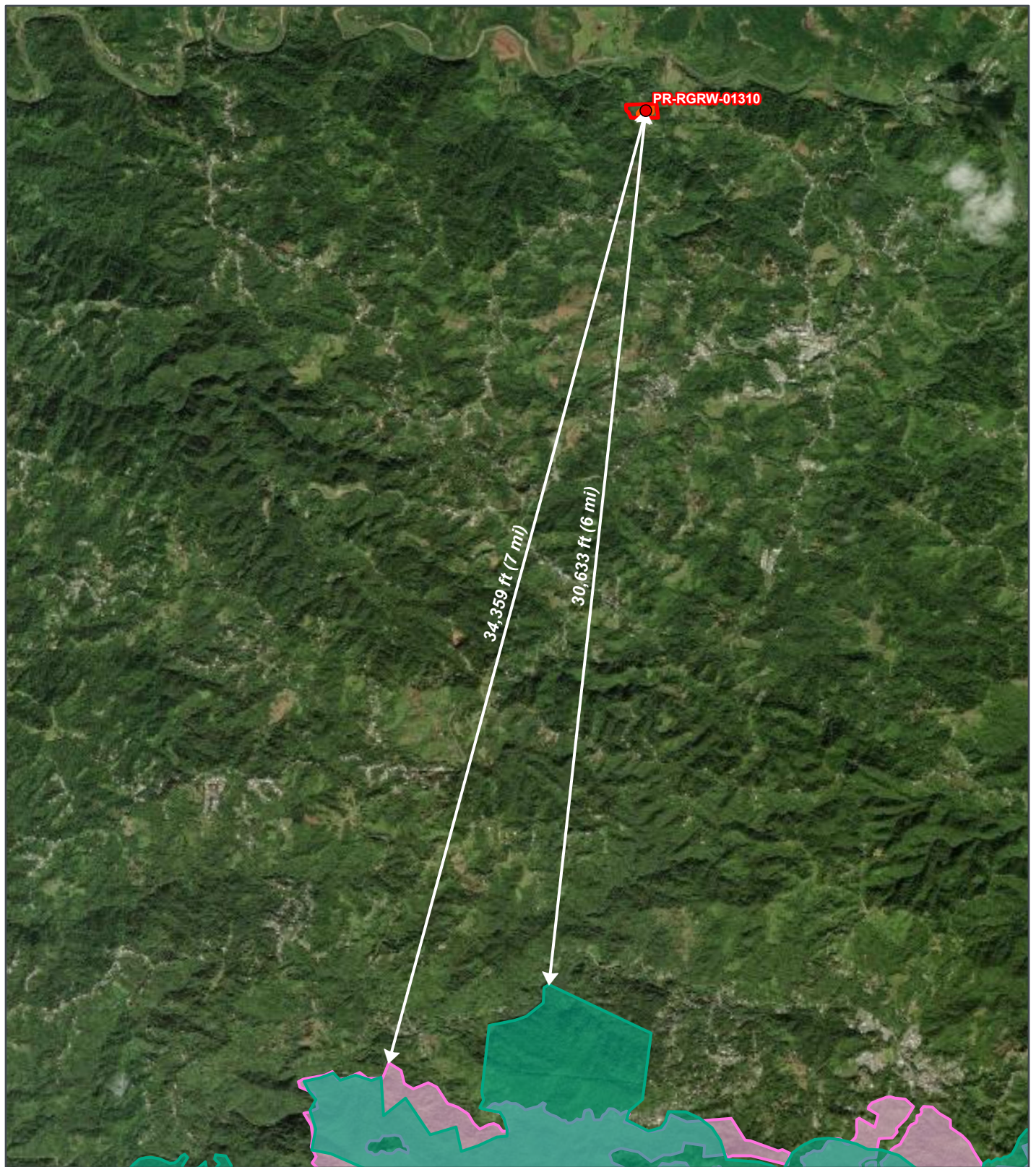
Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

Data exclusions

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

Data precautions

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



REGROW PROGRAM

Figure B 7-1: Critical Habitat Map

Applicant ID: PR-RGRW-01310

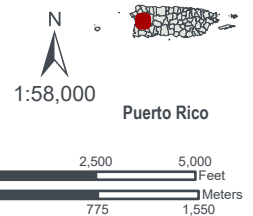
SWCA
ENVIRONMENTAL CONSULTANTS

- Site
- Site Parcel
- Buffer (100-ft)
- Critical Habitat - Final
- Critical Habitat - Proposed
- ▨ National Wildlife Refuges

Carretera 407 KM 3.7
Las Marías, Puerto Rico 00670

Parcel ID: 183-000-005-87-000
Parcel Center:
67.020644°W 18.227994°N

Data Source: https://services.arcgis.com/QVENGdaPbd4LUkLV/arcgis/rest/services/USFWS_Critical_Habitat/Base_Map/ESRI/ArcGIS/Online
accessed May 2023
Updated: 5/26/2023
Layout: Critical Habitat
Aprx: 72428_ReGrowTier2Maps



Attachment 8

Explosive and Flammable Hazards Partner

Worksheet



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

This Worksheet was designed to be used by those “Partners” (including Public Housing Authorities, consultants, contractors, and nonprofits) who assist Responsible Entities and HUD in preparing environmental reviews, but legally cannot take full responsibilities for these reviews themselves. Responsible Entities and HUD should use the RE/HUD version of the Worksheet.

Explosive and Flammable Hazards (CEST and EA) – PARTNER

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

- 1. Does the proposed HUD-assisted project include a hazardous facility (a facility that mainly stores, handles or processes flammable or combustible chemicals such as bulk fuel storage facilities and refineries)?**

☒ No

→ Continue to Question 2.

☐ Yes

Explain:

[Click here to enter text.](#)

→ Continue to Question 5.

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

☒ No → If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below.

☐ Yes → Continue to Question 3.

- 3. Within 1 mile of the project site, are there any current *or planned* stationary aboveground storage containers:**

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

☐ No → If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide all documents used to make your determination.

☐ Yes → Continue to Question 4.

- 4. Is the Separation Distance from the project acceptable based on standards in the Regulation?**

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

☐ Yes

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

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

☐ No

→ Continue to Question 6.

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

5. Is the hazardous facility located at an acceptable separation distance from residences and any other facility or area where people may congregate or be present?

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

☐ Yes

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

Provide map(s) showing the location of the project site relative to residences and any other facility or area where people congregate or are present and your separation distance calculations.

☐ No

→ Continue to Question 6.

Provide map(s) showing the location of the project site relative to residences and any other facility or area where people congregate or are present and your separation distance calculations.

6. For the project to be brought into compliance with this section, all adverse impacts must be mitigated. Explain in detail the exact measures that must be implemented to make the Separation Distance acceptable, including the timeline for implementation. If negative effects cannot be mitigated, cancel the project at this location.

Note that only licensed professional engineers should design and implement blast barriers. If a barrier will be used or the project will be modified to compensate for an unacceptable separation distance, provide approval from a licensed professional engineer.

[Click here to enter text.](#)

Worksheet Summary

Provide a full description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your program or region

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

The project includes the purchase of equipment and construction and installation of a new greenhouse and generator. The project itself is not the development of a potentially hazardous facility nor will the project increase residential densities.

Attachment 9

**Farmlands Protection Partner Worksheet
and Prime Farmland Map**



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

This Worksheet was designed to be used by those “Partners” (including Public Housing Authorities, consultants, contractors, and nonprofits) who assist Responsible Entities and HUD in preparing environmental reviews, but legally cannot take full responsibilities for these reviews themselves. Responsible Entities and HUD should use the RE/HUD version of the Worksheet.

Farmlands Protection (CEST and EA) - PARTNER

<https://www.hudexchange.info/environmental-review/farmlands-protection>

1. Does your project include any activities, including new construction, acquisition of undeveloped land or conversion, that could convert agricultural land to a non-agricultural use?

☐ Yes → *Continue to Question 2.*

☒ No

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

2. Does “important farmland,” including prime farmland, unique farmland, or farmland of statewide or local importance regulated under the Farmland Protection Policy Act, occur on the project site?

You may use the links below to determine important farmland occurs on the project site:

- Utilize USDA Natural Resources Conservation Service’s (NRCS) Web Soil Survey <http://websoilsurvey.nrcs.usda.gov/app/HomePage.htm>
- Check with your city or county’s planning department and ask them to document if the project is on land regulated by the FPPA (zoning important farmland as non-agricultural does not exempt it from FPPA requirements)
- Contact NRCS at the local USDA service center <http://offices.sc.egov.usda.gov/locator/app?agency=nrcs> or your NRCS state soil scientist http://soils.usda.gov/contact/state_offices/ for assistance

☐ No → *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide any documents used to make your determination.*

☐ Yes → *Continue to Question 3.*

3. Consider alternatives to completing the project on important farmland and means of avoiding impacts to important farmland.

- Complete form [AD-1006, “Farmland Conversion Impact Rating”](#) and contact the state soil scientist before sending it to the local NRCS District Conservationist.
- Work with NRCS to minimize the impact of the project on the protected farmland. When you have finished with your analysis, return a copy of form AD-1006 to the USDA-NRCS State Soil Scientist or his/her designee informing them of your determination.

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

☐ Project will proceed with mitigation.

Explain in detail the proposed measures that must be implemented to mitigate for the impact or effect, including the timeline for implementation.

[Click here to enter text.](#)

→ *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide form AD-1006 and all other documents used to make your determination.*

☐ Project will proceed without mitigation.

Explain why mitigation will not be made here:

[Click here to enter text.](#)

→ *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide form AD-1006 and all other documents used to make your determination.*

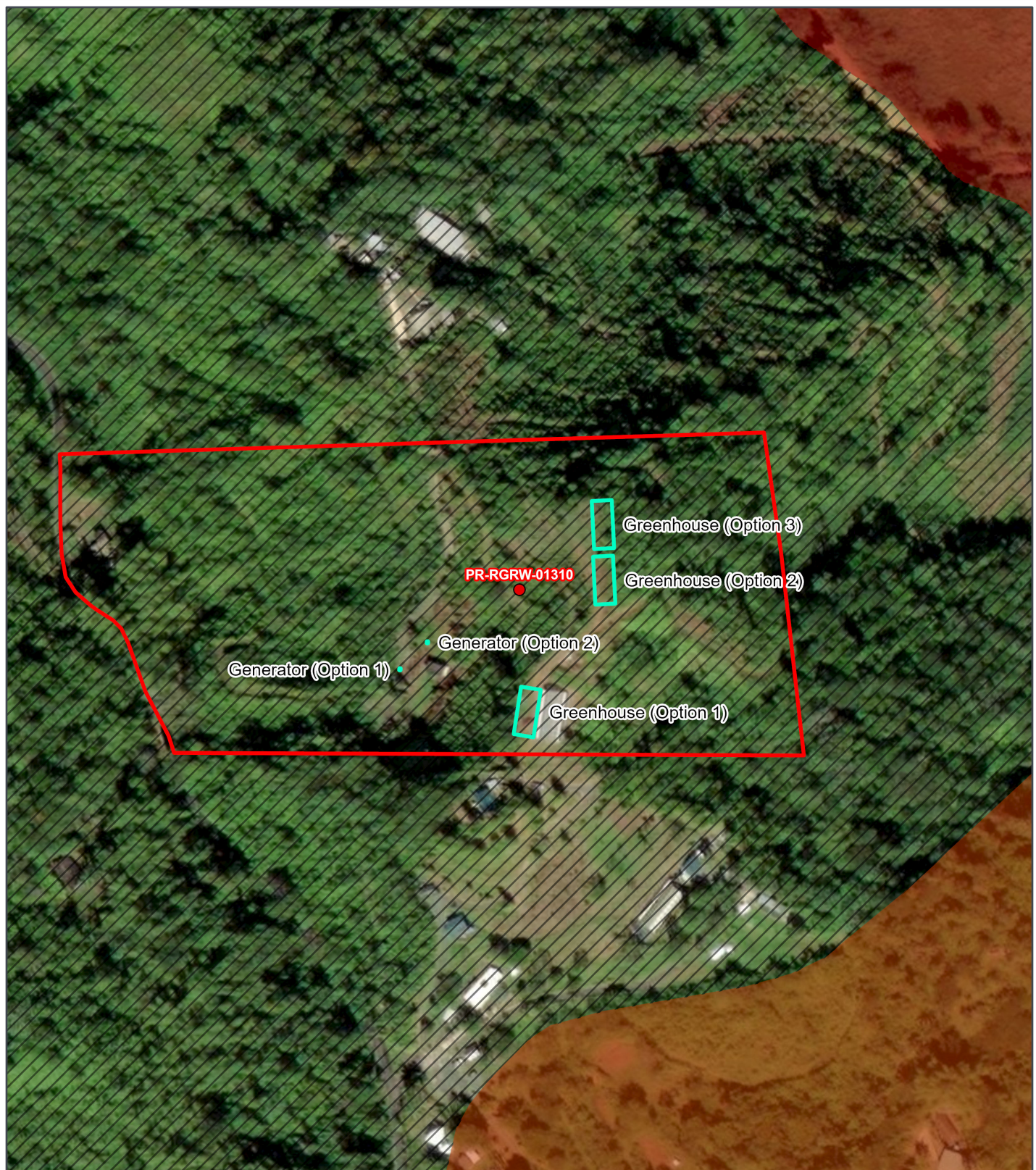
Worksheet Summary

Provide a full description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your program or region

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

This project does not include any activities that could potentially convert agricultural land to non-agricultural use. No prime farmland or farmlands of statewide importance are within the project area. Although the project includes new construction, the project is exempt from review under the Farmland Protection Policy Act (FFPA) as the project is limited to construction of on farm structures needed for farm operations. No further review is required.



REGROW PROGRAM

Figure B 9-1: Prime Farmland Map

Applicant ID: PR-RGRW-01310

SWCA
ENVIRONMENTAL CONSULTANTS

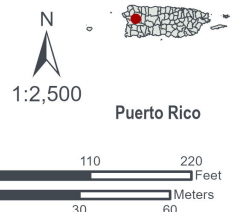
- Site
- Site Parcel
- Project Footprint (Option)
- All areas are prime farmland
- Farmland of statewide importance
- Farmland of statewide importance, if irrigated
- Prime farmland if drained

- Prime farmland if irrigated
- Prime farmland if irrigated and reclaimed of excess salts and sodium
- Prime farmland if protected from flooding or not frequently flooded during the growing season
- /// Not prime farmland
- Not Public Information

Carretera 407 KM 3.7
Las Marías, Puerto Rico 00670

Parcel ID: 183-000-005-87-000
Parcel Center:
67.007886°W 18.273705°N

Data Source: <https://websoilsurvey.nrcs.usda.gov/app/>
Base Map: ESRI ArcGIS Online,
accessed May 2023
Updated: 5/30/2023
Layout: Prime Farmland
Aprx: 72428_ReGrowTier2Maps



Attachment 10

Floodplain Management Partner Worksheet and Advisory Base Flood Elevation Map



This Worksheet was designed to be used by those “Partners” (including Public Housing Authorities, consultants, contractors, and nonprofits) who assist Responsible Entities and HUD in preparing environmental reviews, but legally cannot take full responsibilities for these reviews themselves. Responsible Entities and HUD should use the RE/HUD version of the Worksheet.

Floodplain Management (CEST and EA) – PARTNER

<https://www.hudexchange.info/environmental-review/floodplain-management>

1. Does [24 CFR 55.12\(c\)](#) exempt this project from compliance with HUD’s floodplain management regulations in Part 55?

☐ Yes

Provide the applicable citation at 24 CFR 55.12(c) here. If project is exempt under 55.12(c)(6) or (8), provide supporting documentation.

[Click here to enter text.](#)

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

☒ No → Continue to Question 2.

2. Provide a FEMA/FIRM map showing the site.

The Federal Emergency Management Agency (FEMA) designates floodplains. The [FEMA Map Service Center](#) provides this information in the form of FEMA Flood Insurance Rate Maps (FIRMs).

Does your project occur in a floodplain?

☒ No → Continue to the Worksheet Summary below.

☐ Yes

Select the applicable floodplain using the FEMA map or the best available information:

☐ Floodway → Continue to Question 3, Floodways

☐ Coastal High Hazard Area (V Zone) → Continue to Question 4, Coastal High Hazard Areas

☐ 500-year floodplain (B Zone or shaded X Zone) → Continue to Question 5, 500-year Floodplains

☐ 100-year floodplain (A Zone) → The 8-Step Process is required. Continue to Question 6, 8-Step Process

3. **Floodways**

Is this a functionally dependent use?

☐ Yes

The 8-Step Process is required. Work with HUD or the RE to assist with the 8-Step Process.
→ *Continue to Worksheet Summary.*

- ☐ No → *Federal assistance may not be used at this location unless an exception in 55.12(c) applies. You must either choose an alternate site or cancel the project.*

4. Coastal High Hazard Area

Is this a critical action such as a hospital, nursing home, fire station, or police station?

- ☐ Yes → *Critical actions are prohibited in coastal high hazard areas unless an exception in 55.12(c) applies. You must either choose an alternate site or cancel the project.*

- ☐ No

Does this action include new construction that is not a functionally dependent use, existing construction (including improvements), or reconstruction following destruction caused by a disaster?

- ☐ Yes, there is new construction of something that is not a functionally dependent use.
New construction must be designed to FEMA standards for V Zones at 44 CFR 60.3(e) (24 CFR 55.1(c)(3)(i)).

→ *Continue to Question 6, 8-Step Process*

- ☐ No, this action concerns only existing construction.

Existing construction must have met FEMA elevation and construction standards for a coastal high hazard area or other standards applicable at the time of construction.

→ *Continue to Question 6, 8-Step Process*

5. 500-year Floodplain

Is this a critical action?

- ☐ No → *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Continue to the Worksheet Summary below.*

- ☐ Yes → *Continue to Question 6, 8-Step Process*

6. 8-Step Process.

Is this 8-Step Process required? Select one of the following options:

- ☐ 8-Step Process applies.

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

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

- ☐ 5-Step Process is applicable per 55.12(a)(1-3).

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

[Click here to enter text.](#)

→ *Work with the RE/HUD to assist with the 5-Step Process. Continue to Worksheet Summary.*

- ☐ 8-Step Process is inapplicable per 55.12(b)(1-4).

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

Click here to enter text.

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

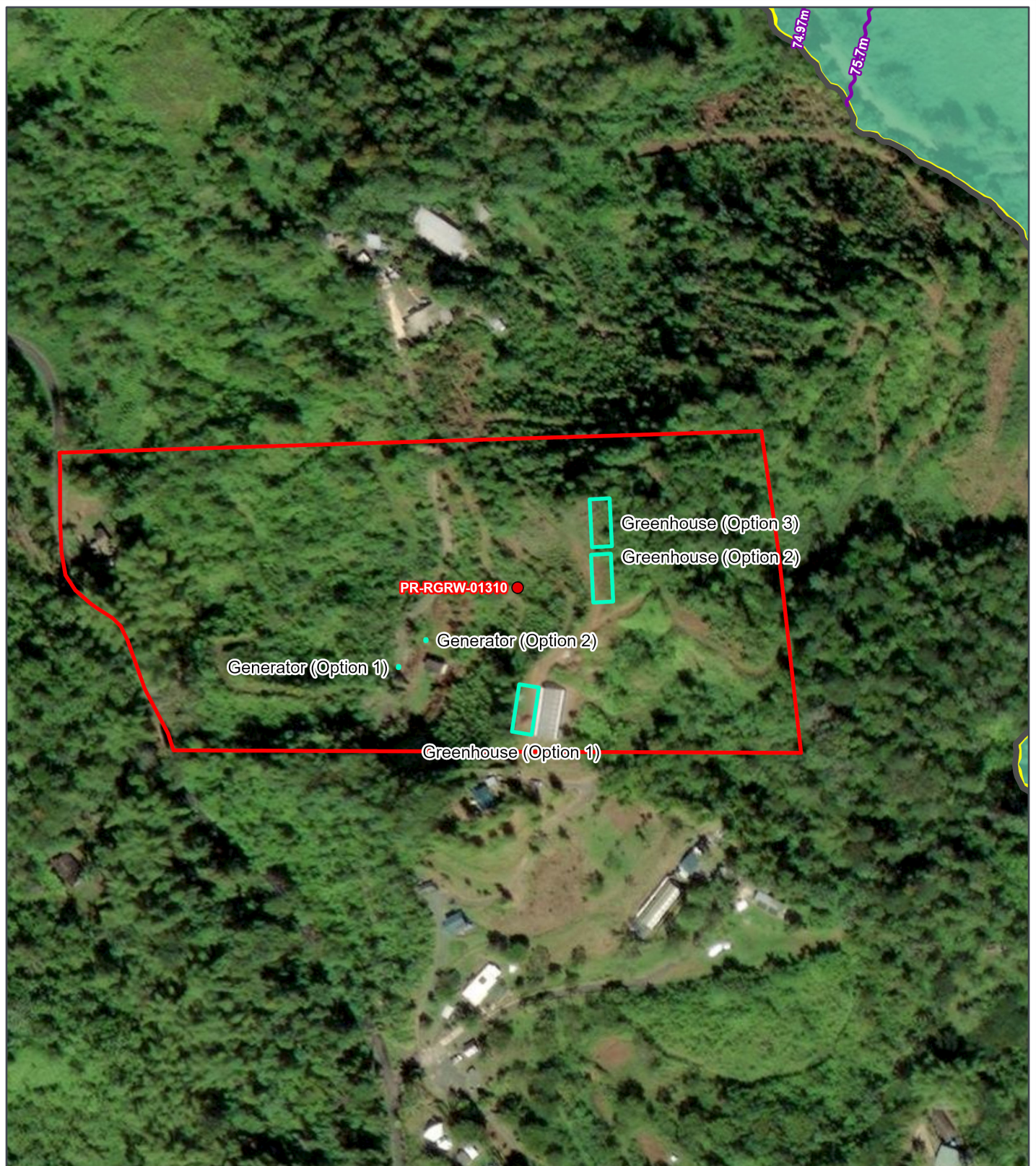
Worksheet Summary

Provide a full description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your program or region

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

A review of the Advisory Base Flood Elevation (ABFE) map, Community Panel 72000C0545H (effective date 04/19/2005), shows the project site is in Flood Zone X. The project is not located in the 100-year floodplain or ABFE special flood hazard area; therefore, no further action is required.



REGROW PROGRAM

Figure B 10-1: Advisory Base Flood Elevation For 100-Year Floodplain Map

Applicant ID: PR-RGRW-01310

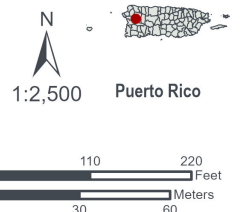
SWCA
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- Site
- Site Parcel
- Project Footprint (Option)
- Advisory Base Flood Elevation (ABFE)
- 0.2% Annual Chance Flood
- 1% Annual Chance Flood
- Zone A
- Zone A-Floodway
- Zone AE
- Coastal A Zone
- Coastal A Zone and Floodway
- Zone AE-Floodway
- Zone AO
- Zone VE
- Zone X (500-year floodplain)
- Zone/BFE Boundary

Carretera 407 KM 3.7
Las Marías, Puerto Rico 00670

Parcel ID: 183-000-005-87-000
Parcel Center:
67.007886°W 18.273705°N

Data Source: https://gis.fema.gov/arcgis/rest/services/DR/PuertoRico_ABFE_1PCT/MapServer
Base Map: ESRI ArcGIS Online, accessed May 2023
Updated: 5/30/2023
Layout: ABFE 1Pct
Aprx: 72428_ReGrowTier2Maps



Attachment 11

**Historic Preservation Partner Worksheet,
SHPO Consultation, Historic Property Map,
and Cultural Resources Map**



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

This Worksheet was designed to be used by those “Partners” (including Public Housing Authorities, consultants, contractors, and nonprofits) who assist Responsible Entities and HUD in preparing environmental reviews, but legally cannot take full responsibilities for these reviews themselves. Responsible Entities and HUD should use the RE/HUD version of the Worksheet.

Historic Preservation (CEST and EA) – PARTNER

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

Threshold

Is Section 106 review required for your project?

- ☐ No, because a Programmatic Agreement states that all activities included in this project are exempt. (See the [PA Database](#) to find applicable PAs.)

Either provide the PA itself or a link to it here. Mark the applicable exemptions or include the text here:

[Click here to enter text.](#)

→ *Continue to the Worksheet Summary.*

- ☐ No, because the project consists solely of activities included in a No Potential to Cause Effects memo or other determination [36 CFR 800.3(a)(1)].

Either provide the memo itself or a link to it here. Explain and justify the other determination here:

[Click here to enter text.](#)

→ *Continue to the Worksheet Summary.*

- ☒ Yes, because the project includes activities with potential to cause effects (direct or indirect). → *Continue to Step 1.*

The Section 106 Process

After determining the need to do a Section 106 review, HUD or the RE will initiate consultation with regulatory and other interested parties, identify and evaluate historic properties, assess effects of the project on properties listed on or eligible for the National Register of Historic Places, and resolve any adverse effects through project design modifications or mitigation.

Step 1: Initiate consultation

Step 2: Identify and evaluate historic properties

Step 3: Assess effects of the project on historic properties

Step 4: Resolve any adverse effects

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

Step 1 - Initiate Consultation

The following parties are entitled to participate in Section 106 reviews: Advisory Council on Historic Preservation; State Historic Preservation Officers (SHPOs); federally recognized Indian tribes/Tribal Historic Preservation Officers (THPOs); Native Hawaiian Organizations (NHOs); local governments; and project grantees. The general public and individuals and organizations with a demonstrated interest in a project may participate as consulting parties at the discretion of the RE or HUD official. Participation varies with the nature and scope of a project. Refer to HUD's website for guidance on consultation, including the required timeframes for response. Consultation should begin early to enable full consideration of preservation options.

Use the [When To Consult With Tribes checklist](#) within [Notice CPD-12-006: Process for Tribal Consultation](#) to determine if the RE or HUD should invite tribes to consult on a particular project. Use the [Tribal Directory Assessment Tool \(TDAT\)](#) to identify tribes that may have an interest in the area where the project is located. Note that only HUD or the RE may initiate consultation with Tribes. Partner entities may prepare a draft letter for the RE or HUD to use to initiate consultation with tribes, but may not send the letter themselves.

List all organizations and individuals that you believe may have an interest in the project here:

SHPO, PRDOH, applicant

See SHPO consultation package for more information.

→ *Continue to Step 2.*

Step 2 - Identify and Evaluate Historic Properties

Provide a preliminary definition of the Area of Potential Effect (APE), either by entering the address(es) or providing a map depicting the APE. Attach an additional page if necessary.

Project location: Carretera 407 KM 3.7, Las Marías, Puerto Rico, 00670.

The proposed project includes the construction and installation of a new greenhouse and a new generator. An existing greenhouse is present in the southwestern portion of the parcel but is not included in the Intended Use of Grant Funds. The proposed new greenhouse is approximately 2,160 square feet (ft) in size (72 ft by 30 ft) with a total height of approximately 18 ft. The greenhouse will be built on a leveled ridgetop with a steep west-facing slope. The posts of the new greenhouse will be secured by 12-inch-wide concrete footers extending approximately 2 ft deep into ground. The greenhouse will have a total of 28 posts (lengthwise- 10 posts on each side at 8 ft apart, widthwise- 4 posts on each side at 6 ft apart).

Three locations are being considered by the applicant for the new greenhouse: Greenhouse Option 1 is in the southern portion of the parcel near the southern parcel boundary; Greenhouse Option 2 is in the eastern portion of the parcel; Greenhouse Option 3 is also in the eastern portion of the parcel, directly north of Greenhouse Option 2. All potential location areas are currently undeveloped. The general topography of the property is dense and mountainous with open areas of low-lying vegetation. The Option 1 site is relatively flat and level. The Option 2 and 3 sites are on a slight slope and leveling may be required up to 3 ft depth may be required for site leveling and preparation. Irrigation piping and connections for the greenhouse will be aboveground.

The new generator will be approximately 6 square feet in size (2 ft by 3 ft) and will be built on a platform. Two potential locations are evaluated for the new greenhouse in the south-central area of the property. The two potential locations are approximately 10 to 15 ft apart. The generator

will connect to the concrete outbuilding using aboveground cables to enable it to refrigerate produce.

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 the location of the concrete base plus a 15-meter buffer and the visual APE is the viewshed of the proposed project.

Gather information about known historic properties in the APE. Historic buildings, districts and archeological sites may have been identified in local, state, and national surveys and registers, local historic districts, municipal plans, town and county histories, and local history websites. If not already listed on the National Register of Historic Places, identified properties are then evaluated to see if they are eligible for the National Register. Refer to HUD's website for guidance on identifying and evaluating historic properties.

In the space below, list historic properties identified and evaluated in the APE.

Every historic property that may be affected by the project should be listed. For each historic property or district, include the National Register status, whether the SHPO has concurred with the finding, and whether information on the site is sensitive. Attach an additional page if necessary.

The project area is not within the boundaries of a National Register of Historic Places (NRHP)-eligible or listed Traditional Urban Center or Historic District. No historic resources were found within 0.50 mile of the proposed project. There are no residences within direct visual site of the project activities. One existing concrete outbuilding (Photo 3, page 14) is in the south-central portion of the parcel, adjacent to the two proposed generator locations. The applicant stated it was constructed recently and based on materials and form the Historic Preservation Specialist concurs with a circa 2020 date. The existing greenhouse being repaired uses a combination of PVC and metal posts and wire mesh and is estimated to be less than 10 years old.

The project area is located in Las Marías, just west of the border between Las Marias and Alto Sano, and approximately 1.70 mi northwest of the city of Las Marias in a densely vegetated, rural area. There are houses and buildings to the north, west, and south of the subject property, all are not in visual site of the project activities, and none have been determined to be historic. See SHPO consultation package for more information.

Provide the documentation (survey forms, Register nominations, concurrence(s) and/or objection(s), notes, and photos) that justify your National Register Status determination.

Was a survey of historic buildings and/or archeological sites done as part of the project?

If the APE contains previously unsurveyed buildings or structures over 50 years old, or there is a likely presence of previously unsurveyed archeological sites, a survey may be necessary. For Archeological surveys, refer to HP Fact Sheet #6, [Guidance on Archeological Investigations in HUD Projects](#).

☐ Yes → *Provide survey(s) and report(s) and continue to Step 3.*

Additional notes:

[Click here to enter text.](#)

☒ No → *Continue to Step 3.*

Step 3 - Assess Effects of the Project on Historic Properties

Only properties that are listed on or eligible for the National Register of Historic Places receive further consideration under Section 106. Assess the effect(s) of the project by applying the Criteria of Adverse Effect. ([36 CFR 800.5](#)) Consider direct and indirect effects as applicable as per HUD guidance.

Choose one of the findings below to recommend to the RE or HUD.

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

☒ No Historic Properties Affected

Document reason for finding:

☒ No historic properties present.

☐ Historic properties present, but project will have no effect upon them.

☐ No Adverse Effect

Document reason for finding and provide any comments below.

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

[Click here to enter text.](#)

☐ Adverse Effect

Document reason for finding:

Copy and paste applicable Criteria into text box with summary and justification.

Criteria of Adverse Effect: [36 CFR 800.5](#)

[Click here to enter text.](#)

Provide any comments below:

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

The proposed project involves the installation of a new greenhouse and generator on undeveloped land and ground disturbing activities of previously undisturbed soil. State Historic Preservation Office (SHPO) consultation was performed.

No National Historic Landmark (NHL) are within or near the project area.

A site visit was conducted on January 30, 2023, by an SOI-qualified Archaeologist. Additionally, record reviews and research were conducted at the SHPO and the Institute for Puerto Rican Culture (ICP) to determine if any archaeologically sensitive resources could be present within a 0.5-mile radius.

The results of the record search and the site inspection indicate that there are no historic properties or cultural resources within the 0.50-mile radius study area or within the project Area of Potential Effect (APE). Based on the results of the historic property identification efforts, the Program has determined that project actions will not affect historic properties that compose the APE.

The determination was submitted to SHPO by PRDOH for concurrence on March 27, 2023, and SHPO concurred with the No Historic Properties Affected determination on April 14, 2023.

See SHPO consultation package for more information.

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



GOVERNMENT OF PUERTO RICO
STATE HISTORIC PRESERVATION OFFICE

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

April 14, 2023

Lauren Bair Poche

HORNE- Architectural Historian Manager
10000 Perkins Rowe, Suite 610 Bldg. G
Baton Rouge, LA 70810

SHPO: 04-04-23-02 PR-RGRW-01310 MARIANO RAMOS DBA LOCALIZADO EN
LA CARR. 407 KM. 3.7, LAS MARÍAS, PUERTO RICO

Dear Ms. Poche,

Our Office has received and reviewed the documentation above referenced project in accordance with 54 USC 306108 (commonly known as Section 106 of the National Historic Preservation Act, as amended) and 36 CFR Part 800: Protection of Historic Properties from the Advisory Council on Historic Preservation. The State Historic Preservation Officer (SHPO) is to advise and assist federal agencies and other responsible entities when identifying historic properties, assessing effects upon them, and considering alternatives to avoid or reduce the project's effects.

Our records support your finding of **no historic properties affected** within the project's area of potential effects. Please note that should the Agency discover other historic properties at any point during project implementation, you should notify the SHPO immediately.

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

Sincerely,

Carlos A. Rubio-Cancela
State Historic Preservation Officer

CARC/GMO/IMC



April 3, 2023

Carlos A. Rubio Cancela
Director Ejecutivo
Oficina Estatal de Conservación Histórica
Cuartel de Ballajá (Tercer Piso)
San Juan, PR 00902-3935

Puerto Rico Disaster Recovery, CDBG-DR Re-Grow PR Urban-Rural Agricultural (Re-Grow PR) Program

Section 106 NHPA Effect Determination Submittal: PR-RGRW-01130 – Mariano Crespo Ramos DBA – Carretera 407 KM 3.7, Las Marías, Puerto Rico – *No Historic Properties Affected*

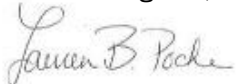
Dear Architect Rubio Cancela,

In accordance with Section 106 of the National Historic Preservation Act and its implementing regulations, 36 CFR Part 800, HORNE is providing information for your review and requesting your concurrence regarding the above-referenced projects on behalf of the Puerto Rico Department of Housing (PRDOH) and the Home Repair, Reconstruction, or Relocation (R3) Program. On February 9, 2018, an allocation of Community Development Block Grant - Disaster Recovery (CDBG-DR) funds was approved by the United States Department of Housing and Urban Development (HUD) under the Federal Register Volume 83, No. 28, 83 FR 5844, to assist the Commonwealth of Puerto Rico in meeting unmet needs in the wake of Hurricanes Irma and Maria. On August 14, 2018, an additional \$8.22 billion recovery allocation was allocated to Puerto Rico under the Federal Register Volume 83, No. 157, 83 FR 40314. With these funding allocations, the Puerto Rico Department of Housing (Housing) aims to lead a comprehensive and transparent recovery for the benefit of Puerto Rico residents.

On behalf of PRDOH and the subrecipient, the Puerto Rico Department of Agriculture, we are submitting documentation for activities proposed by Mariano Crespo Ramos DBS at Carretera 407 KM 3.7 in the municipality of Las Marías. The proposed project includes the construction and installation of a new greenhouse and a new generator. These activities will require ground disturbance. Based on the submitted documentation, the Program requests a concurrence that a determination of No Historic Properties Affected is appropriate for this proposed project.

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


Kindest regards,



Lauren Bair Poche, M.A.

Architectural Historian, Historic Preservation Senior Manager

Attachments

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM REGROW PUERTO RICO PROGRAM Section 106 NHPA Effect Determination		
Applicant: Mariano Crespo Ramos DBA		
Case ID: PR-RGRW-01310	City: Las Marías	

Project Location: Carretera 407 KM 3.7, Las Marías, PR 00670	
Project Coordinates: Generator (Option 1) centerpoint: 18.273376, -67.008401 Generator (Option 2) centerpoint: 18.273487, -67.008283 Greenhouse (Option 1) centerpoint: 18.27322, -67.00781 Greenhouse (Option 2) centerpoint: 18.273746, -67.007521 Greenhouse (Option 3) centerpoint: 18.273975, -67.007527	
TPID (Número de Catastro): 183-000-005-87-000	
Type of Undertaking: <input type="checkbox"/> Substantial Repair/Improvements <input checked="" type="checkbox"/> New Construction	
Construction Date (AH est.): Concrete Outbuilding ca. 2013	Property Size: Total Parcel: 10.96 ac Generator (Option 1 and 2) – 6 sq. ft. Greenhouse (Option 1, 2, 3) – 2,160 sq. ft. (0.05 ac)


SOI-Qualified Architect/Architectural Historian: Erin Edwards, M.P.S.
Date Reviewed: March 21, 2023
SOI-Qualified Archaeologist: Delise Torres-Ortiz and Rob Lackowicz
Date Reviewed: March 22, 2023

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

Project Description (Undertaking)

The proposed project includes the construction and installation of a new greenhouse and a new generator. An existing greenhouse is present in the southwestern portion of the parcel but is not included in the Intended Use of Grant Funds.

The proposed new greenhouse is approximately 2,160 square feet (ft) in size (72 ft by 30 ft) with a total height of approximately 18 ft. The greenhouse will be built on a leveled ridgetop with a steep west-facing slope. The posts of the new greenhouse will be secured by 12-inch-wide concrete footers extending approximately 2 ft deep into ground. The greenhouse will have a total of 28 posts (lengthwise- 10 posts on each side at 8 ft apart, widthwise- 4 posts on each side at 6 ft apart). Three locations are being considered by the applicant for the new greenhouse: Greenhouse Option 1 is in the southern portion of the parcel near the southern parcel boundary; Greenhouse Option 2 is in the eastern portion of the parcel;

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM REGROW PUERTO RICO PROGRAM Section 106 NHPA Effect Determination	
Applicant: Mariano Crespo Ramos DBA	
Case ID: PR-RGRW-01310	City: Las Marías

Greenhouse Option 3 is also in the eastern portion of the parcel, directly north of Greenhouse Option 2. All potential location areas are currently undeveloped. The general topography of the property is dense and mountainous with open areas of low-lying vegetation. The Option 1 site is relatively flat and level. The Option 2 and 3 sites are on a slight slope and leveling up to 3 ft depth may be required for site leveling and preparation. Irrigation piping and connections for the greenhouse will be aboveground.

The new generator will be approximately 6 square feet in size (2 ft by 3 ft) and will be built on a platform. Two potential locations are evaluated for the new generator in the south-central area of the property. The two potential locations are approximately 10 to 15 ft apart. The generator will connect to the concrete outbuilding using aboveground cables to enable it to refrigerate produce.

The project may have some ground disturbance as described above as well as pruning of overstory vegetation, no tree clearing will be required for construction.


Area of Potential Effects

As defined in 36 CFR §800.16(d), the area of potential effects (APE) is the geographic area or areas within which an undertaking may directly or indirectly cause changes in the character or use of historic properties if any such properties exist. Based on this definition and the nature and scope of the Undertaking, the Program has determined that the direct APE for this project are the five proposed activity areas described above, plus a 15-meter buffer and the visual APE is the viewshed of the proposed project.

Identification of Historic Properties - Archaeology

Existing information on previously identified historic properties has been reviewed to determine if any such properties are located within the APE of this undertaking. The review of this existing information by a Program contracted Historic Preservation Specialist meeting the Secretary of the Interior's Professional Qualification Standards (36 CFR Part 61) who searched the records at the State Historic Preservation Office (SHPO) and the Instituto de Cultura Puertorriqueña (ICP) identified no reported historic properties, archaeological resources, or significant cultural properties within a half-mile (mi) radius of the project location.

The proposed project is located on Carretera 407 at KM 3.7 in the municipality of Las Marías at an elevation of approximately 460 ft (140 meters [m]) above mean sea level (amsl) at


PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM REGROW PUERTO RICO PROGRAM Section 106 NHPA Effect Determination		
Applicant: Mariano Crespo Ramos DBA		
Case ID: PR-RGRW-01310	City: Las Marias	

the two potential generator locations (Generator Option 1 and 2) and 520 to 540 ft (158 to 165 m) amsl at the locations of Greenhouse Option 1, 2 and 3. Per the USGS/NRCS Web Soil Survey, the project area is entirely located within the mapped soil series: Humatas Clay, 40 to 60 percent slopes (HmF2). The project area APE is located on a maintained ridgeline with steep east and west-facing slopes in a notably rural area of Las Marias. Dense secondary forest covers the hillslopes, maintained low-lying vegetation is found on the ridgeline and surrounding existing parcel structures. Unpaved vehicular roads intersect the parcel. As per the National Hydrology Dataset, there is an unnamed tributary of the Rio Grande de Anasco located in the western portion of the project parcel 0.1 mi (0.15 km) due west of the APE. The next closest freshwater source is the Rio Arenas located 0.14 mi (0.22 km) due east of the project area, however both waterways are likely ephemeral. The perennial Rio Grande de Anasco is located 0.34 mi (0.55 km) north of the project area. The western coast is approximately 11.7 mi (18.9 km) from the project area.

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 not within the boundaries of a National Register of Historic Places (NRHP)-eligible or listed Traditional Urban Center or Historic District. No historic resources were found within 0.50 mile of the proposed project. There are no residences within direct visual site of the project activities. One existing concrete outbuilding (ca. 2013; Photo 3, page 14) is in the south-central portion of the parcel, adjacent to the two proposed generator locations. The building is present on 2013 aerial imagery, but absent from 2012 imagery. The existing greenhouse uses a combination of PVC and metal posts and wire mesh and per aerial imagery was constructed in 2021.

The project area is located in Las Marias, just west of the border between Las Marias and Alto Sano, and approximately 1.70 mi northwest of the city of Las Marias in a densely vegetated, rural area. There are houses and buildings to the north, west, and south of the subject property, all are not in visual site of the project activities, and none have been determined to be historic. The majority of the property is covered with dense trees or ridgeline areas of maintained low-lying vegetation with various paved and unpaved roads throughout the property.


PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM REGROW PUERTO RICO PROGRAM Section 106 NHPA Effect Determination	
Applicant: Mariano Crespo Ramos DBA	
Case ID: PR-RGRW-01310	City: Las Marías

Determination

The following historic properties have been identified within the APE:

- Direct Effect:
 - None
- Indirect Effect:
 - None

Based on the results of our historic property identification efforts, the Program has determined that project actions will not affect historic properties that compose the Area of Potential Effect. The project area is not within or adjacent to the boundaries of a National Register of Historic Places (NRHP)-eligible or listed historic district or Traditional Urban Center. There are no reported archaeological materials or significant cultural properties within a half-mile radius of the proposed project location. No known archaeological sites or NRHP listed/eligible historic properties are within or adjacent to the property or the parcel in which the APE of case PR-RGRW-01310 is located. The project activity will result in very small land impacts totaling 0.05 acres. The closest perennial freshwater body is the Rio Grande de Anasco approximately 0.34 mi (0.55 km) due north of the project area. The construction of public roads and residential structures/agricultural infrastructure has minimally impacted the surrounding terrain. Therefore, no impact to cultural properties is anticipated for this reconstruction project.

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM REGROW PUERTO RICO PROGRAM Section 106 NHPA Effect Determination		
Applicant: Mariano Crespo Ramos DBA		
Case ID: PR-RGRW-01310	City: Las Marias	

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

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

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

This Section is to be Completed by SHPO Staff Only

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

Applicant: Mariano Crespo Ramos DBA

Case ID: PR-RGRW-01310

City: Las Marías

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



REGROW PROGRAM

**Project Location
Area of Potential
Effects Map**

Applicant ID: PR-RGRW-01310

SWCA
ENVIRONMENTAL CONSULTANTS

- Site
- ▭ Site Parcel
- ▭ Project Footprint (Option)
- ▭ Buffer (15-meters)

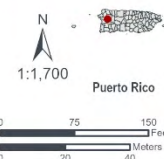
Carretera 407 KM 3.7
Las Marías, Puerto Rico 00670

Parcel ID: 183-000-005-87-000

Parcel Center:
67.007886°W 18.273705°N

Base Map: ESRI ArcGIS Online,
accessed March 2023
Updated: 3/10/2023

Layout: APE
Apix: 72428_ReGrowTier2Mapa

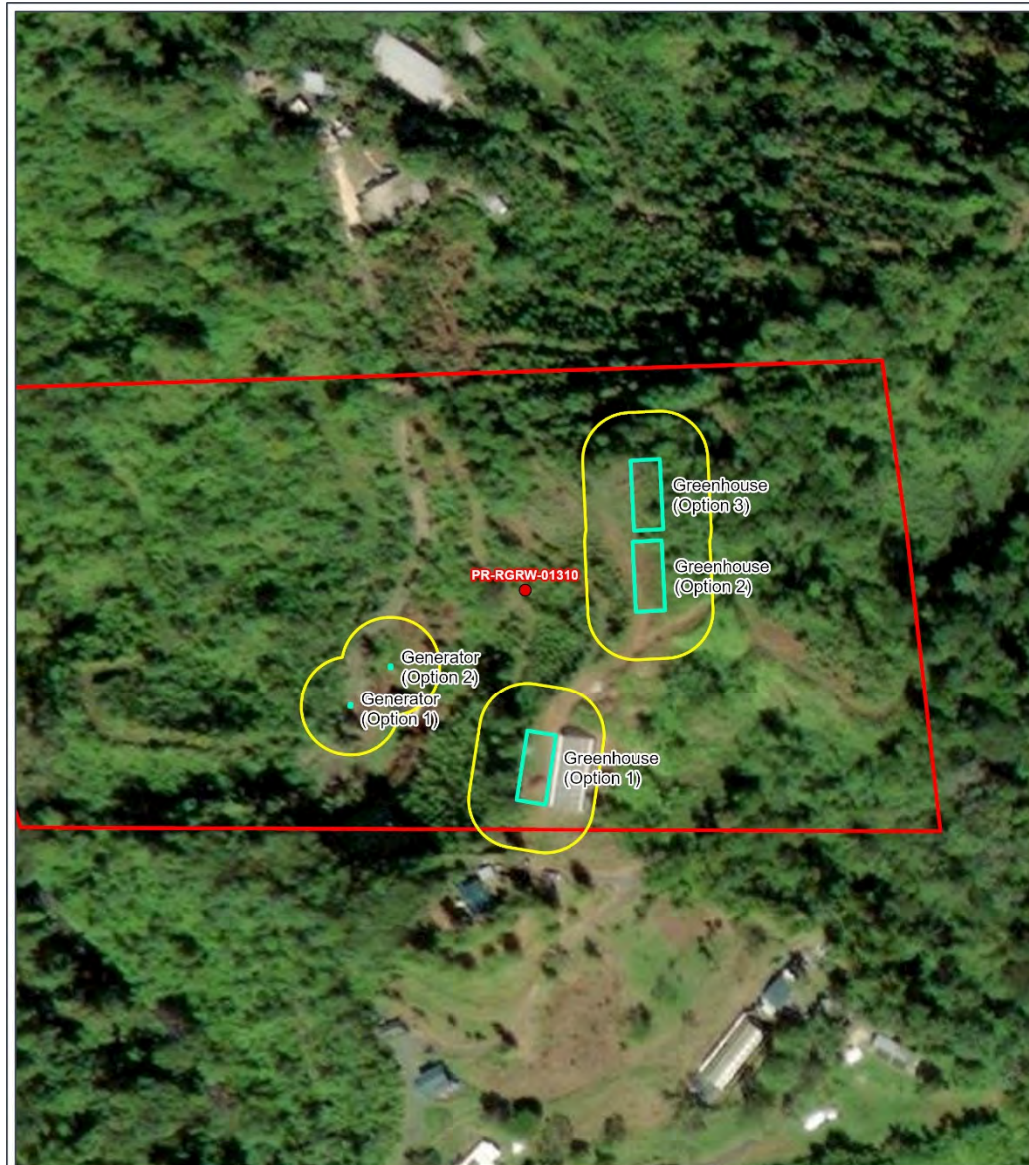


Applicant: Mariano Crespo Ramos DBA

Case ID: PR-RGRW-01310

City: Las Marias

Project (Parcel) Location - Aerial Map



REGROW PROGRAM

**Project Location
Area of Potential
Effects Map**

Applicant ID: PR-RGRW-01310

SWCA
ENVIRONMENTAL CONSULTANTS

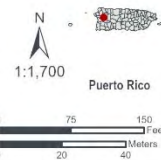
- Site
- Site Parcel
- Project Footprint (Option)
- Buffer (15-meters)

Carretera 407 KM 3.7
Las Marias, Puerto Rico 00670
Parcel ID: 183-000-005-87-000

Parcel Center:
67.007886°W 18.273705°N

Base Map: ESRI ArcGIS Online,
accessed March 2023
Updated: 3/14/2023

Layout: APE
Aprx: 72428_RegrowTier2Maps

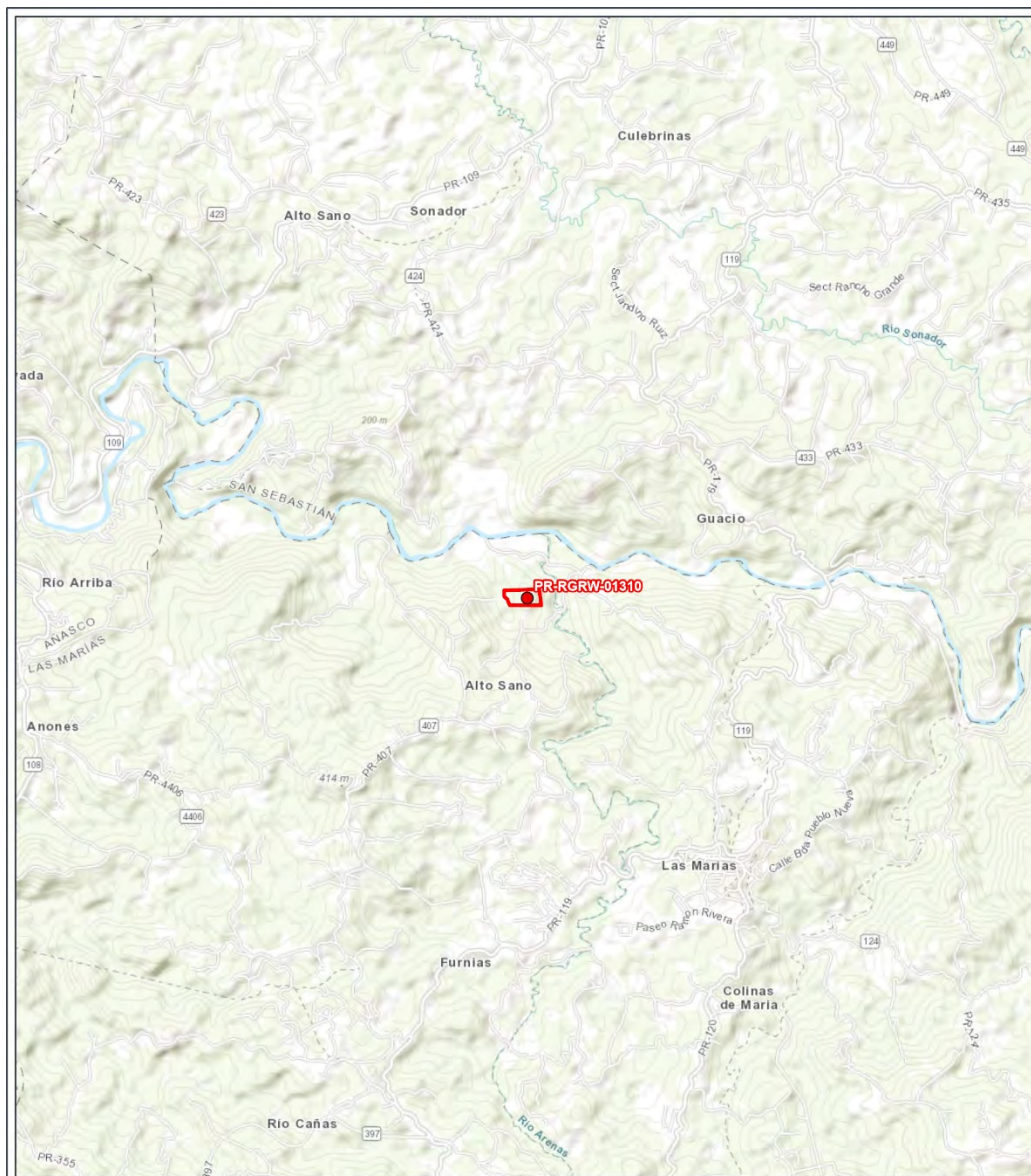


Applicant: Mariano Crespo Ramos DBA

Case ID: PR-RGRW-01310

City: Las Marías

Project (Parcel) Location - USGS Topographic Map



REGROW PROGRAM

Site Location Map

Applicant ID: PR-RGRW-01310

SWCA
ENVIRONMENTAL CONSULTANTS

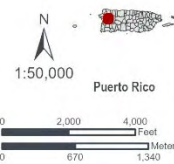
● Site

□ Site Parcel

Carretera 407 KM 3.7
Las Marías, Puerto Rico 00670
Parcel ID: 183-000-005-87-000

Parcel Center:
67.007886°W 18.273641°N

Base Map: ESRI ArcGIS Online,
accessed January 2023
Updated: 1/31/2023
Layout: Site Location
Aprx: 72428_RegrowTier2Maps

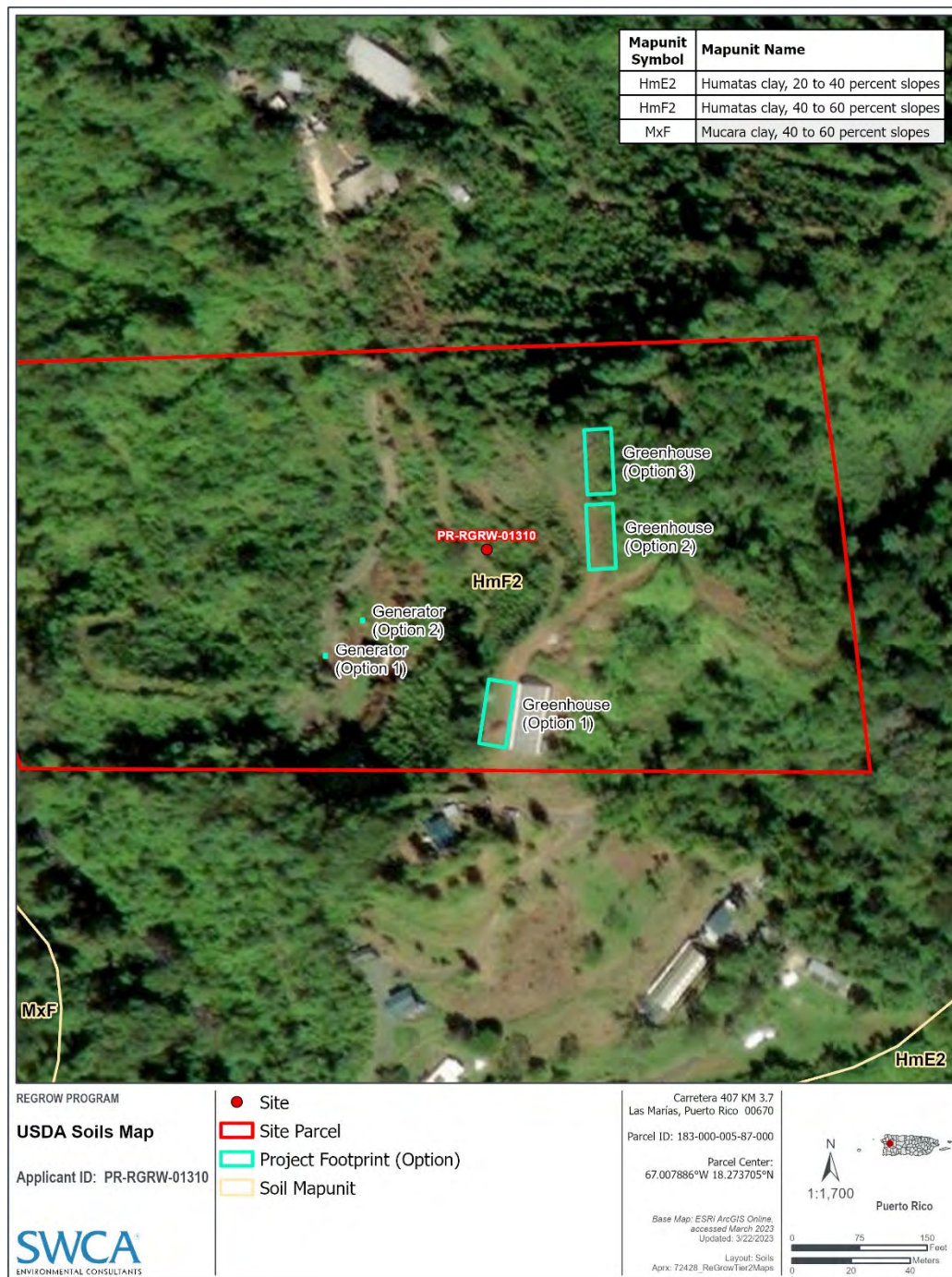


Applicant: Mariano Crespo Ramos DBA

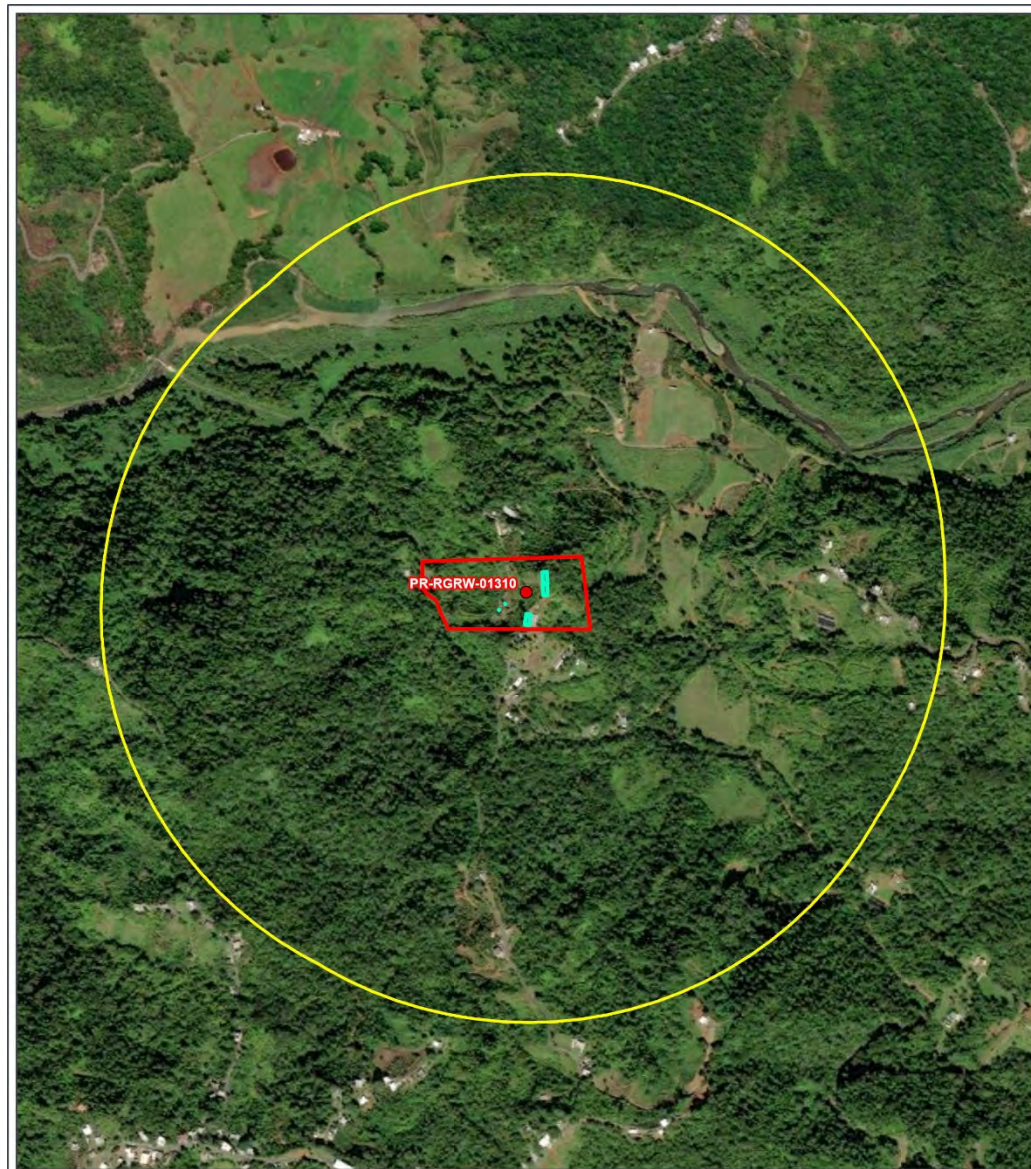
Case ID: PR-RGRW-01310

City: Las Marías

Project (Parcel) Location – Soils Map (Only if Archaeology Review is Required)



Project (Parcel) Location with Previous Investigations - Aerial Map



REGROW PROGRAM

Previous Investigation Map

Applicant ID: PR-RGRW-01310

SWCA
ENVIRONMENTAL CONSULTANTS

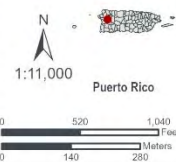
- Site
- ▭ Site Parcel
- ▭ Project Footprint (Options)
- Buffer (0.5-mile)
- ▭ Previously Recorded Survey
- ▭ MIPR Arqueología
- ▭ Traditional Urban Centers

Carretera 407 KM 3.7
Las Marías, Puerto Rico 00670
Parcel ID: 183-000-005-87-000

Parcel Center:
67.007886°W 18.273705°N

Base Map: ESRI ArcGIS Online,
accessed March 2023
Updated: 3/14/2023

Layout: Previous Investigation
Apk: 72428_RegrowTerr2Maps

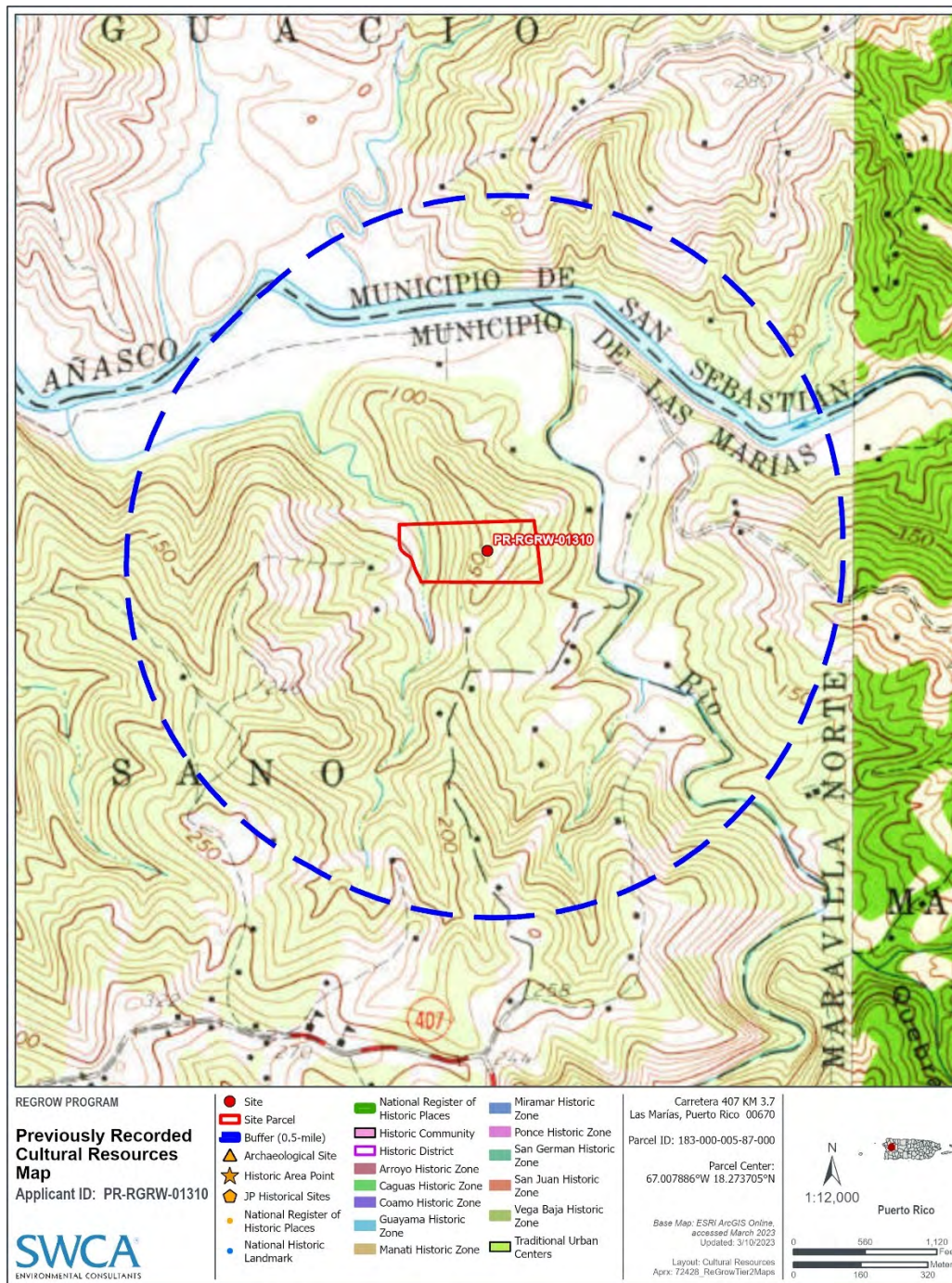


Applicant: Mariano Crespo Ramos DBA

Case ID: PR-RGRW-01310

City: Las Marías

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

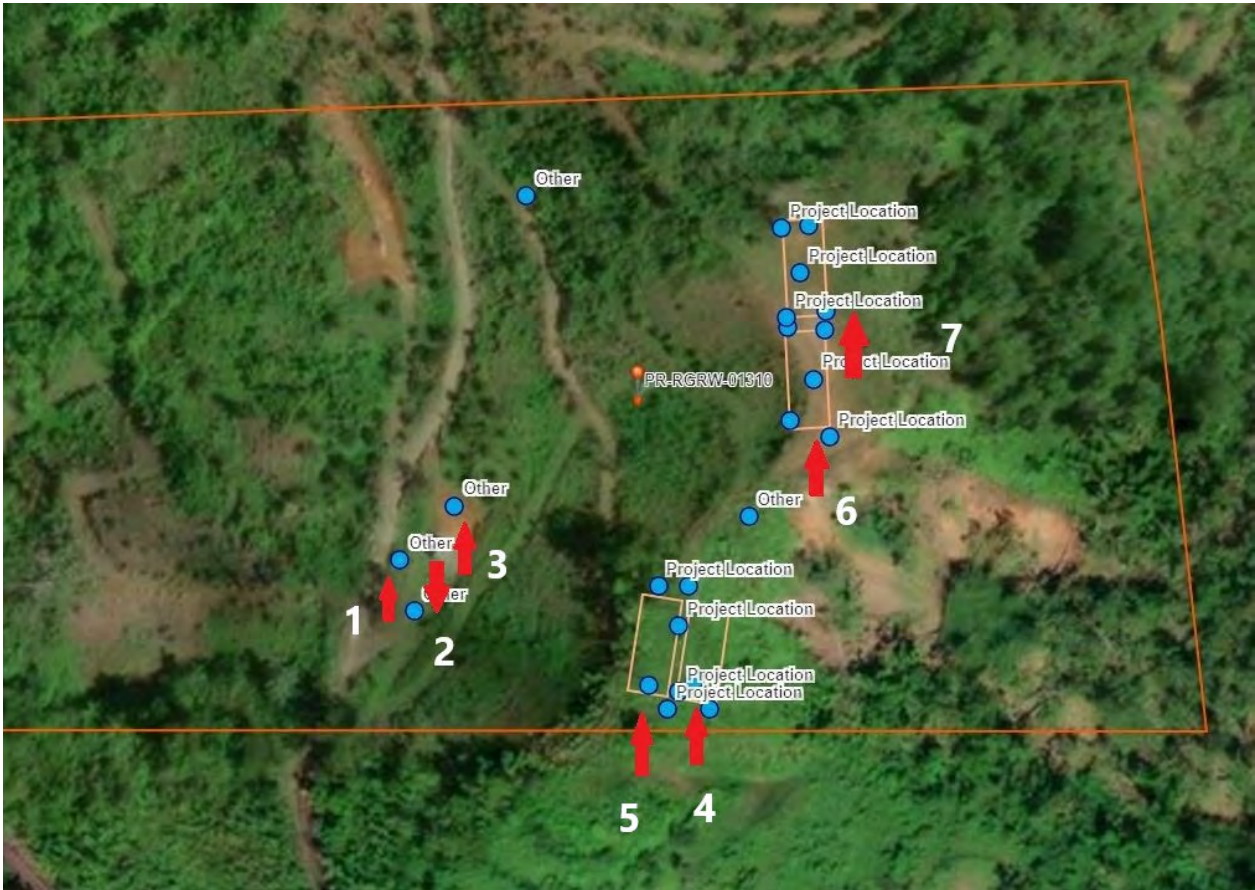


Applicant: Mariano Crespo Ramos DBA

Case ID: PR-RGRW-01310

City: Las Marias

Photograph Key



Applicant: Mariano Crespo Ramos DBA

Case ID: PR-RGRW-01310

City: Las Marias

Photo #: 01	Date: 01/30/ 2023	
Photo Direction: N		
Description: Generator Option 2 location.		

Photo #: 02	Date: 01/30/ 2023	
Photo Direction: N		
Description: Generator Option 1 location.		

Applicant: Mariano Crespo Ramos DBA

Case ID: PR-RGRW-01310

City: Las Marias



Applicant: Mariano Crespo Ramos DBA

Case ID: PR-RGRW-01310

City: Las Marias

Photo #: 05	Date: 01/30/ 2023	
Photo Direction: N		
Description: Overview of south corner Greenhouse Option 1.		

Photo #: 06	Date: 01/30/ 2023	
Photo Direction: N		
Description: Central overview Greenhouse Option 2.		


PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM REGROW PUERTO RICO PROGRAM Section 106 NHPA Effect Determination		
Applicant: Mariano Crespo Ramos DBA		
Case ID: PR-RGRW-01310		City: Las Marias

Photo #: 07	Date: 01/30/ 2023	
Photo Direction: NE		
Description: Southeast corner of Greenhouse Option 3.		



October 20, 2022

Arch. Carlos A. Rubio Cancela

Executive Director

State Historic Preservation Officer

Cuartel de Ballajá Bldg.

San Juan, Puerto Rico

Re: Authorization to Submit Documents


Dear Arch. Rubio Cancela:

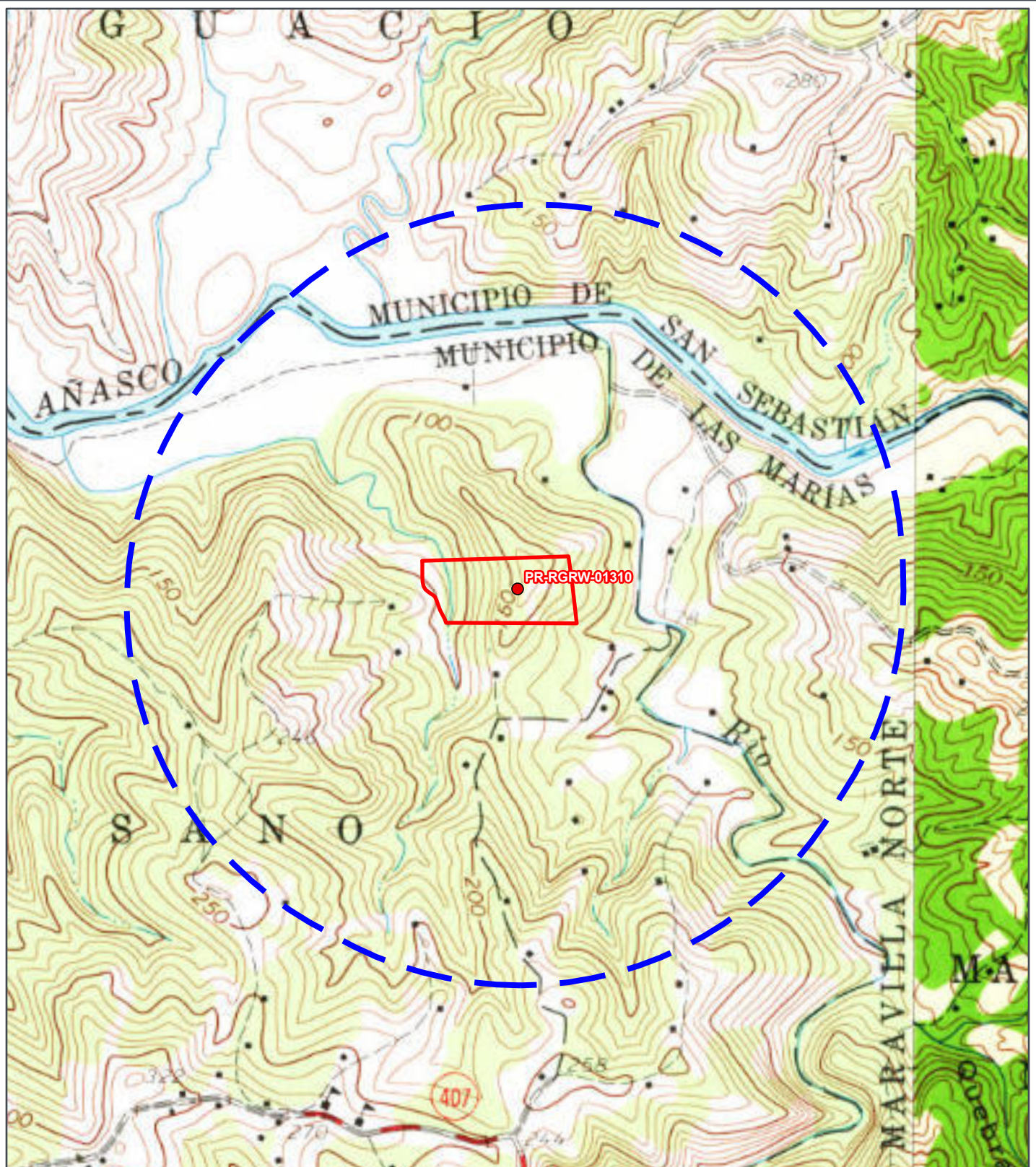
The U.S. Department of Housing (HUD) approved the allocations of Community Development Block Grant (CDBG-DR) funds on February 9, 2018. It also approved the allocation of Community Development Block Grant Mitigation (CDBG-MIT) funds on January 27, 2020. The purpose of these allocations is to address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

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

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

Cordially,


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



REGROW PROGRAM

Figure B 11-1: Previously Recorded Cultural Resources Map

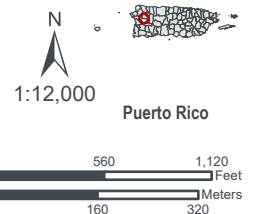
Applicant ID: PR-RGRW-01310

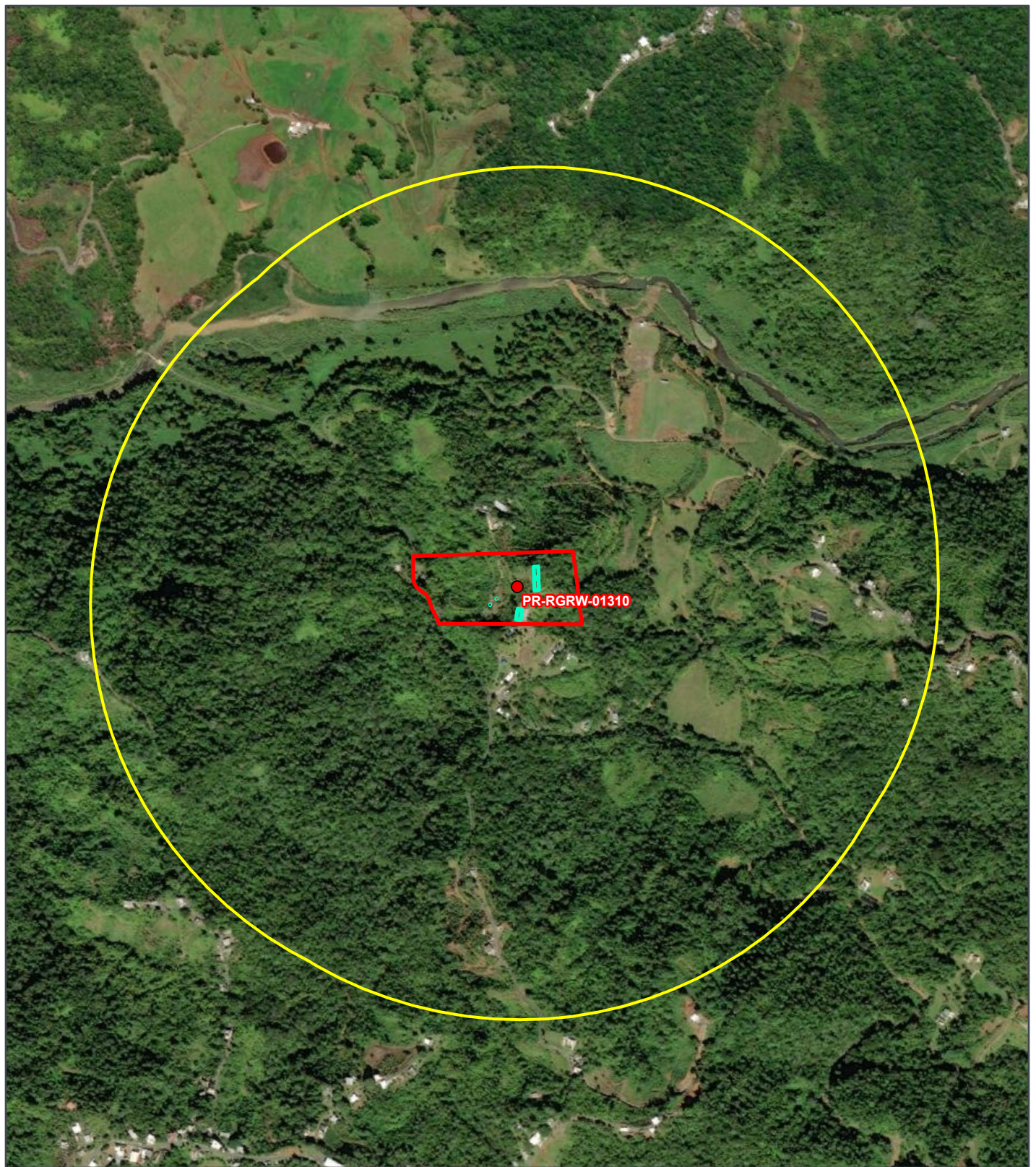
SWCA
ENVIRONMENTAL CONSULTANTS

- | | | |
|--|--|-----------------------------|
| ● Site | ● National Historic Landmark | ■ Manatí Historic Zone |
| ■ Site Parcel | ■ National Register of Historic Places | ■ Miramar Historic Zone |
| ■ Buffer (0.5-mile) | ■ Historic Community | ■ Ponce Historic Zone |
| ▲ Archaeological Site | ■ Historic District | ■ San German Historic Zone |
| ■ Historical Place | ■ Arroyo Historic Zone | ■ San Juan Historic Zone |
| ★ Historic Area Point | ■ Caguas Historic Zone | ■ Vega Baja Historic Zone |
| ★ JP Historical Sites | ■ Coamo Historic Zone | ■ Traditional Urban Centers |
| ● National Register of Historic Places | ■ Guayama Historic Zone | |

Carretera 407 KM 3.7
Las Marías, Puerto Rico 00670
Parcel ID: 183-000-005-87-000
Parcel Center:
67.007886°W 18.273705°N

Data Source: https://mapservices.nps.gov/arcgis/rest/services/cultural_resources/nrhp_locations/MapServer
https://sigejp.pr.gov/server/rest/services/JP_Reglamentario/
Base Map: ESRI ArcGIS Online, accessed May 2023
Updated: 5/26/2023
Layout: Cultural Resources





REGROW PROGRAM

Previous Investigation Map

Applicant ID: PR-RGRW-01310



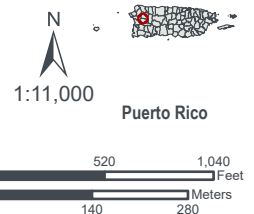
- Site
- Site Parcel
- Project Footprint (Option)
- Buffer (0.5-mile)
- Previously Recorded Survey
- MIPR Arqueologia
- Traditional Urban Centers

Carretera 407 KM 3.7
Las Marías, Puerto Rico 00670

Parcel ID: 183-000-005-87-000
Parcel Center:
67.007886°W 18.273705°N

Base Map: ESRI ArcGIS Online,
accessed May 2023
Updated: 5/30/2023

Layout: Previous Investigation
Aprx: 72428_ReGrowTier2Maps



Attachment 12

**Wetlands Protection Partner Worksheet and
Wetland Map**



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

This Worksheet was designed to be used by those “Partners” (including Public Housing Authorities, consultants, contractors, and nonprofits) who assist Responsible Entities and HUD in preparing environmental reviews, but legally cannot take full responsibilities for these reviews themselves. Responsible Entities and HUD should use the RE/HUD version of the Worksheet.

Wetlands (CEST and EA) – Partner

<https://www.hudexchange.info/environmental-review/wetlands-protection>

1. Does this project involve new construction as defined in Executive Order 11990, expansion of a building’s footprint, or ground disturbance?

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

☐ No → *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below.*

☒ Yes → *Continue to Question 2.*

2. Will the new construction or other ground disturbance impact a wetland as defined in E.O. 11990?

☒ No → *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide a map or any other relevant documentation to explain your determination.*

☐ Yes → *Work with HUD or the RE to assist with the 8-Step Process.* *Continue to Question 3.*

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

☐ No, the 8-Step Process applies.

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

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

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

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

[Click here to enter text.](#)

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

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

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

[Click here to enter text.](#)

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

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

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

[Click here to enter text.](#)

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

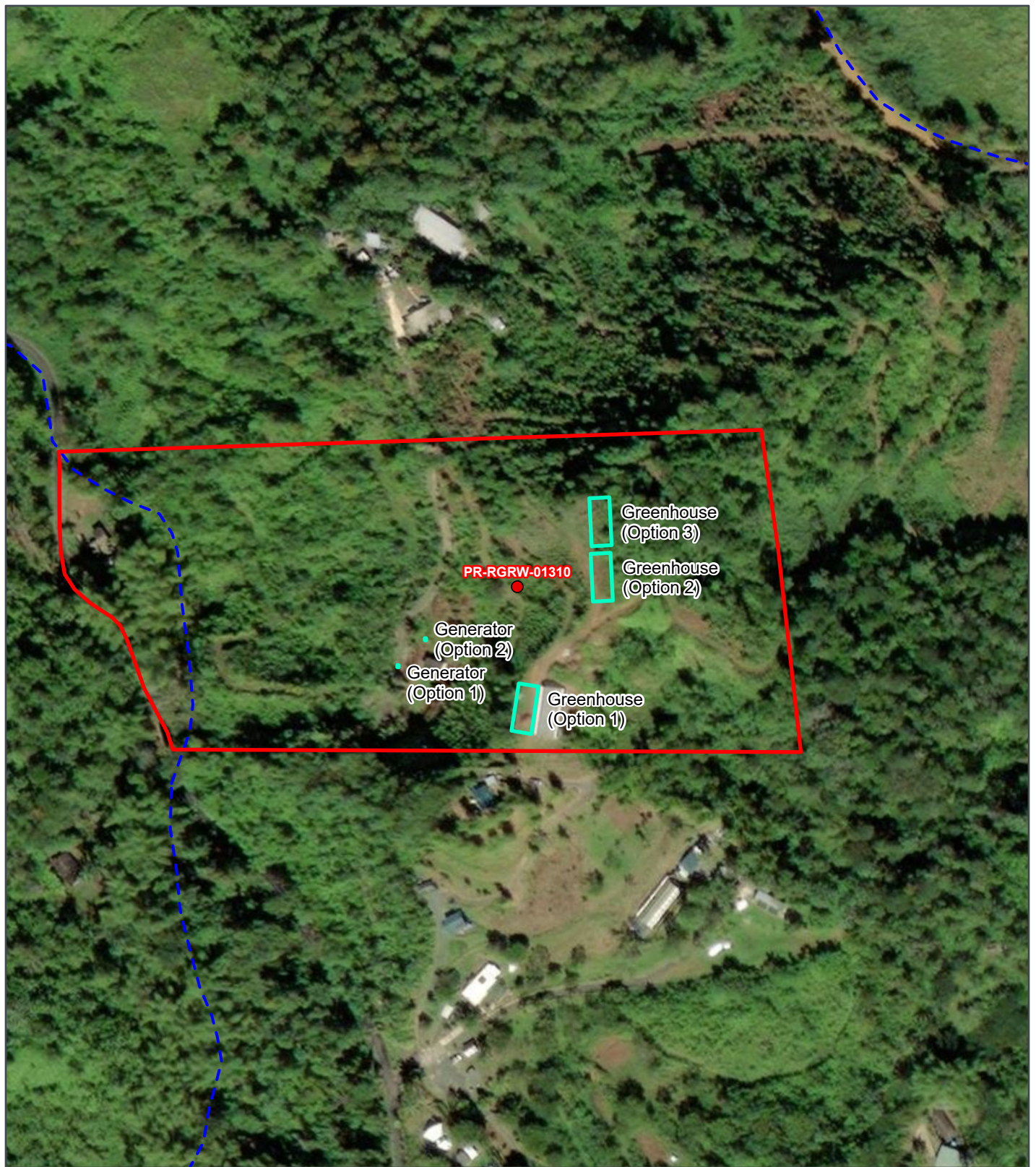
Worksheet Summary

Provide a full description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your program or region

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

The project site was reviewed for wetlands using the USFWS Wetland Inventory Mapper and a visual confirmation during the field site inspection. No wetlands were identified on site. Project activities are therefore an exempt activity. No further evaluation is required.



REGROW PROGRAM

Figure B 12-1: Wetlands Protection Map

Applicant ID: PR-RGRW-01310

SWCA
ENVIRONMENTAL CONSULTANTS

- Site
- Site Parcel
- Project Footprint (Option)
- - - NHD Stream
- Estuarine and Marine Deepwater

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

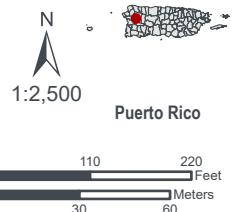
Carretera 407 KM 3.7
Las Marías, Puerto Rico 00670

Parcel ID: 183-000-005-87-000

Parcel Center:
67.007886°W 18.273705°N

Base Map: ESRI ArcGIS Online,
accessed March 2023
Updated: 3/23/2023

Layout: Wetlands Protection
Aprx: 72428_ReGrowTier2Maps



Attachment 13

Wild and Scenic Rivers Partner Worksheet and Wild and Scenic Rivers Map

Wild and Scenic Rivers (CEST and EA) – PARTNER

This Worksheet was designed to be used by those “Partners” (including Public Housing Authorities, consultants, contractors, and nonprofits) who assist Responsible Entities and HUD in preparing environmental reviews, but legally cannot take full responsibilities for these reviews themselves. Responsible Entities and HUD should use the RE/HUD version of the Worksheet.

General requirements	Legislation	Regulation
The Wild and Scenic Rivers Act provides federal protection for certain free-flowing, wild, scenic and recreational rivers designated as components or potential components of the National Wild and Scenic Rivers System (NWSRS) from the effects of construction or development.	The Wild and Scenic Rivers Act (16 U.S.C. 1271-1287), particularly section 7(b) and (c) (16 U.S.C. 1278(b) and (c))	36 CFR Part 297
References		
https://www.hudexchange.info/environmental-review/wild-and-scenic-rivers		

1. Is your project within proximity of a NWSRS river as defined below?

Wild & Scenic Rivers: These rivers or river segments have been designated by Congress or by states (with the concurrence of the Secretary of the Interior) as wild, scenic, or recreational

Study Rivers: These rivers or river segments are being studied as a potential component of the Wild & Scenic River system.

Nationwide Rivers Inventory (NRI): The National Park Service has compiled and maintains the NRI, a register of river segments that potentially qualify as national wild, scenic, or recreational river areas

☒ No

→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Provide documentation used to make your determination, such as a map identifying the project site and its surrounding area or a list of rivers in your region in the Screen Summary at the conclusion of this screen.

☐ Yes, the project is in proximity of a Nationwide Rivers Inventory (NRI) River.

→ Continue to Question 2.

2. Could the project do *any* of the following?

- Have a direct and adverse effect within Wild and Scenic River Boundaries,
- Invade the area or unreasonably diminish the river outside Wild and Scenic River Boundaries, or
- Have an adverse effect on the natural, cultural, and/or recreational values of a NRI segment.

Consultation with the appropriate federal/state/local/tribal Managing Agency(s) is required, pursuant to Section 7 of the Act, to determine if the proposed project may have an adverse effect on a Wild & Scenic River or a Study River and, if so, to determine the appropriate avoidance or mitigation measures.

Note: Concurrence may be assumed if the Managing Agency does not respond within 30 days; however, you are still obligated to avoid or mitigate adverse effects on the rivers identified in the NWSRS

- ☐ No, the Managing Agency has concurred that the proposed project will not alter, directly, or indirectly, any of the characteristics that qualifies or potentially qualifies the river for inclusion in the NWSRS.

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

- ☐ Yes, the Managing Agency was consulted and the proposed project may alter, directly, or indirectly, any of the characteristics that qualifies or potentially qualifies the river for inclusion in the NWSRS.

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

Worksheet Summary

Compliance Determination

Provide a clear description of your determination and a synopsis of the information that it was based on, such as:

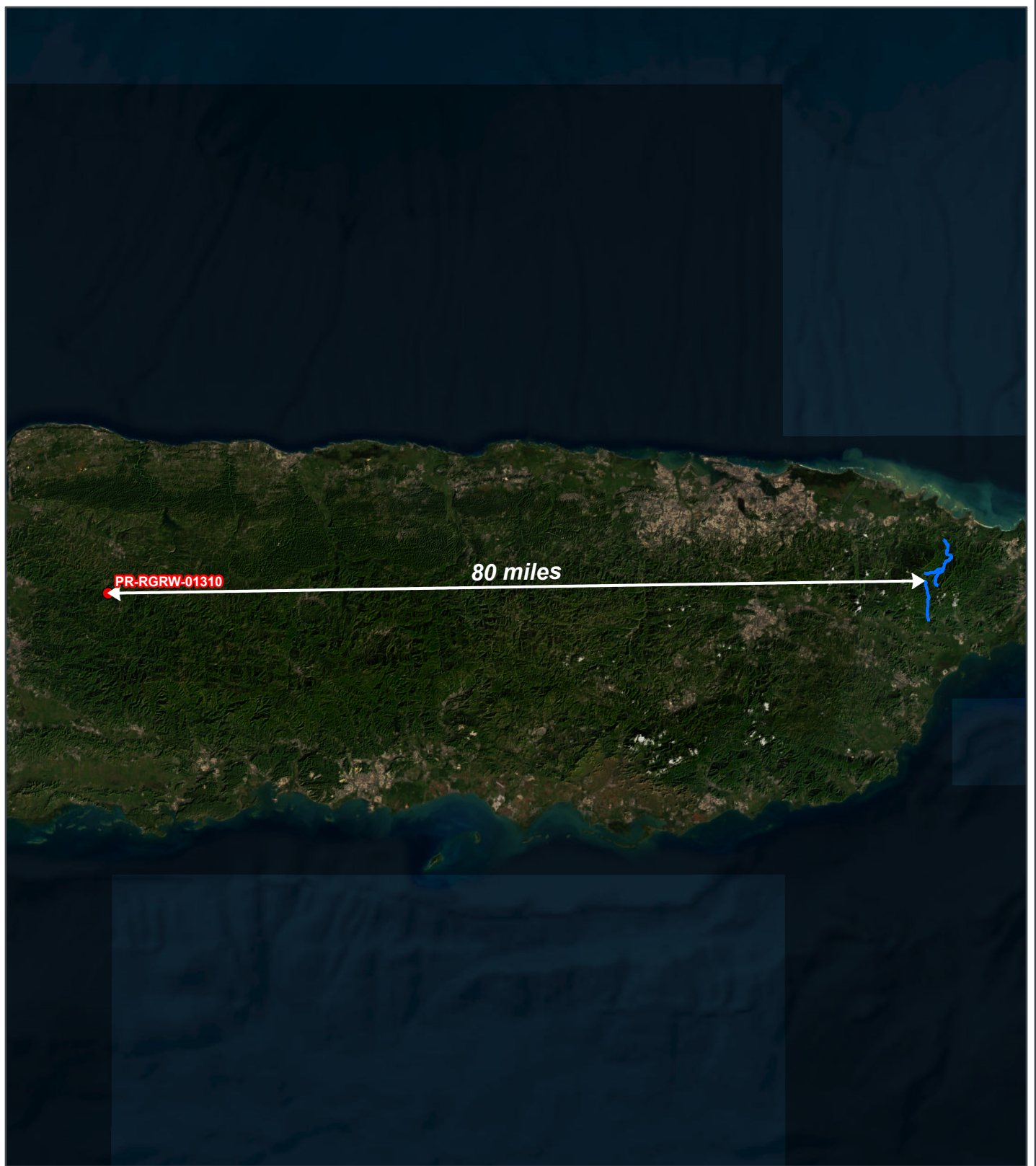
- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your region

A review of the USFWS National Wild and Scenic River mapper identified no Wild and Scenic Rivers or National Rivers Inventory (NRI) rivers present in Las Marías Municipio. The closest Wild and Scenic River segment is 80 miles east of the project site. Project activities are therefore an exempt activity. No further evaluation is required.

Are formal compliance steps or mitigation required?

☐ Yes

☒ No



REGROW PROGRAM

Figure B 13-1: National Wild and Scenic River Map

Applicant ID: PR-RGRW-01310

SWCA
ENVIRONMENTAL CONSULTANTS

- Site
- National Wild and Scenic River

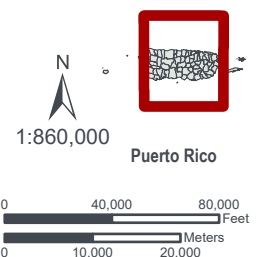
Carretera 407 KM 3.7
Las Marías, Puerto Rico 00670

Parcel ID: 183-000-005-87-000

Parcel Center:
66.39889°W 18.283462°N

Base Map: ESRI ArcGIS Online,
accessed March 2023
Updated: 3/23/2023

Layout: Wild and Scenic Rivers
Aprx: 72428_ReGrowTier2Maps



Attachment 14
Environmental Justice Partner Worksheet
and EJScreen Report



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

This Worksheet was designed to be used by those “Partners” (including Public Housing Authorities, consultants, contractors, and nonprofits) who assist Responsible Entities and HUD in preparing environmental reviews, but legally cannot take full responsibilities for these reviews themselves. Responsible Entities and HUD should use the RE/HUD version of the Worksheet.

Environmental Justice (CEST and EA) – PARTNER

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

HUD strongly encourages starting the Environmental Justice analysis only after all other laws and authorities, including Environmental Assessment factors if necessary, have been completed.

1. Were any adverse environmental impacts identified in any other compliance review portion of this project’s total environmental review?

☐ Yes → *Continue to Question 2.*

☒ No → *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below.*

2. Were these adverse environmental impacts disproportionately high for low-income and/or minority communities?

☐ Yes

Explain:

[Click here to enter text.](#)

→ *The RE/HUD must work with the affected low-income or minority community to decide what mitigation actions, if any, will be taken. Provide any supporting documentation.*

☐ No

Explain:

[Click here to enter text.](#)

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

Worksheet Summary

Provide a full description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your program or region

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

The ReGrow Program intends to strengthen and alleviate negative economic impacts to the agricultural industry in Puerto Rico. The project's direct and indirect impacts are limited to a single land parcel. The project will benefit the farm owner by improving agricultural use and production.

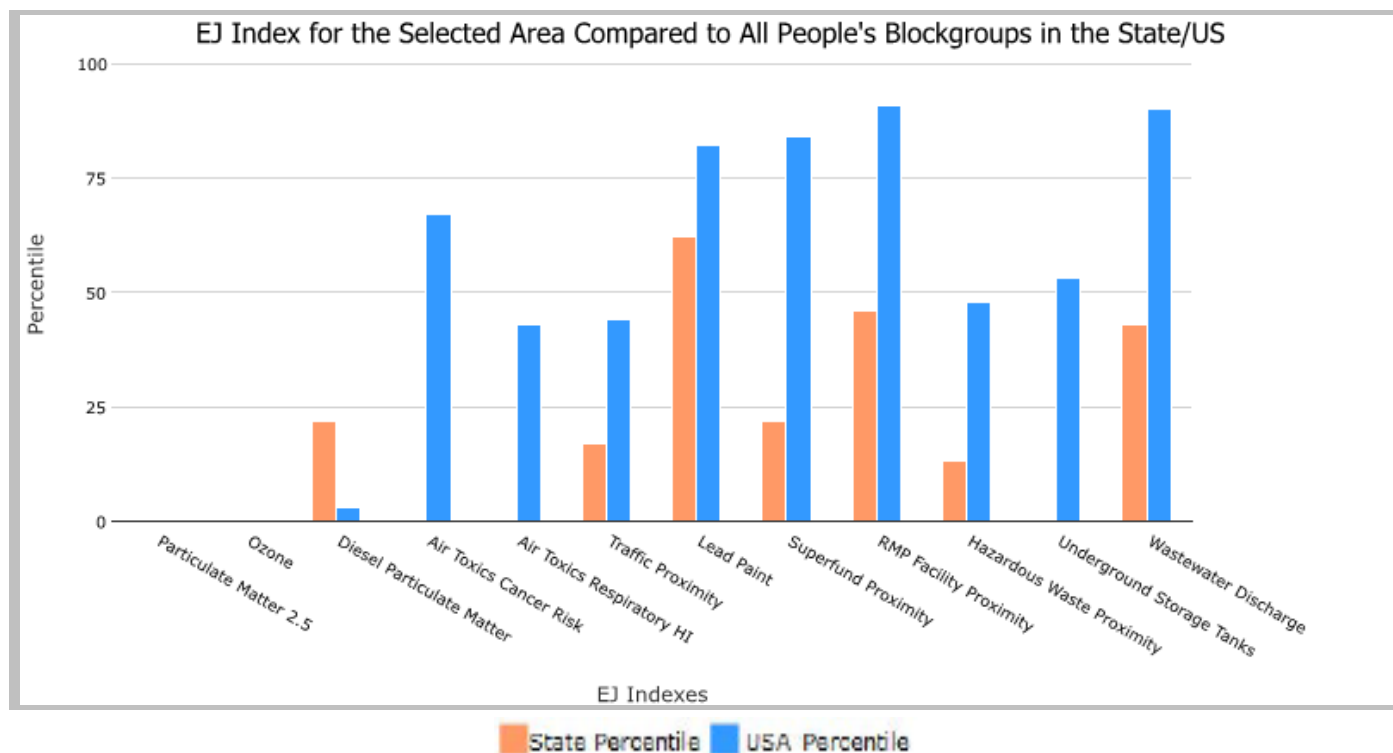
The project would not facilitate development which would negatively affect human health or result in disproportionate adverse environmental impacts to low-income or minority populations.

1 mile Ring Centered at 18.273381,-67.008256, PUERTO RICO, EPA Region 2

Approximate Population: 564

Input Area (sq. miles): 3.14

Selected Variables	State Percentile	USA Percentile
Environmental Justice Indexes		
EJ Index for Particulate Matter 2.5	N/A	N/A
EJ Index for Ozone	N/A	N/A
EJ Index for Diesel Particulate Matter*	22	3
EJ Index for Air Toxics Cancer Risk*	0	67
EJ Index for Air Toxics Respiratory HI*	0	43
EJ Index for Traffic Proximity	17	44
EJ Index for Lead Paint	62	82
EJ Index for Superfund Proximity	22	84
EJ Index for RMP Facility Proximity	46	91
EJ Index for Hazardous Waste Proximity	13	48
EJ Index for Underground Storage Tanks	0	53
EJ Index for Wastewater Discharge	43	90

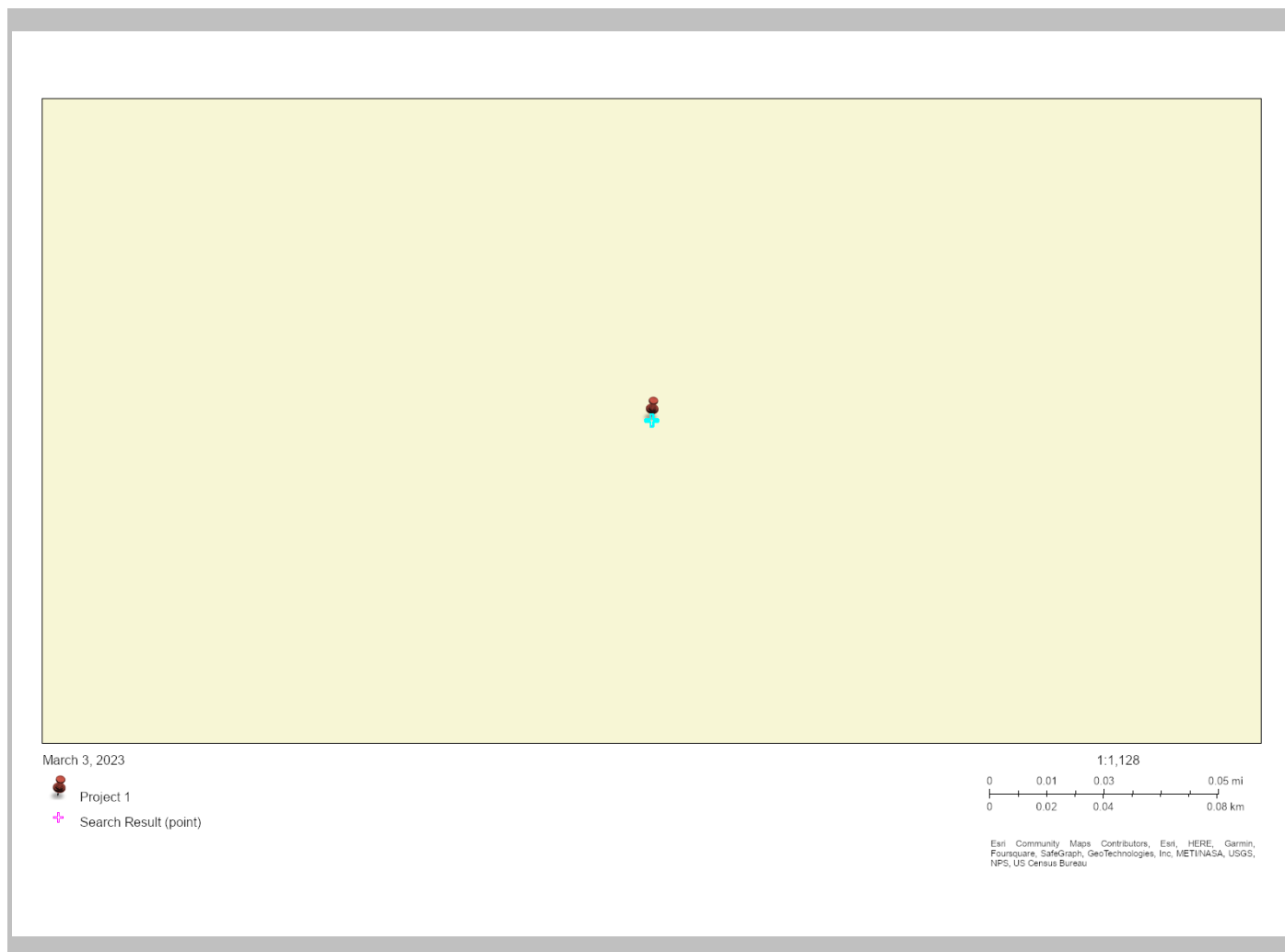


This report shows the values for environmental and demographic indicators and EJSCREEN indexes. It shows environmental and demographic raw data (e.g., the estimated concentration of ozone in the air), and also shows what percentile each raw data value represents. These percentiles provide perspective on how the selected block group or buffer area compares to the entire state, EPA region, or nation. For example, if a given location is at the 95th percentile nationwide, this means that only 5 percent of the US population has a higher block group value than the average person in the location being analyzed. The years for which the data are available, and the methods used, vary across these indicators. Important caveats and uncertainties apply to this screening-level information, so it is essential to understand the limitations on appropriate interpretations and applications of these indicators. Please see EJSCREEN documentation for discussion of these issues before using reports.

1 mile Ring Centered at 18.273381,-67.008256, PUERTO RICO, EPA Region 2

Approximate Population: 564

Input Area (sq. miles): 3.14



Sites reporting to EPA	
Superfund NPL	0
Hazardous Waste Treatment, Storage, and Disposal Facilities (TSDF)	0

EJScreen Report (Version 2.1)

1 mile Ring Centered at 18.273381,-67.008256, PUERTO RICO, EPA Region 2

Approximate Population: 564

Input Area (sq. miles): 3.14

Selected Variables	Value	State Avg.	%ile in State	USA Avg.	%ile in USA
Pollution and Sources					
Particulate Matter 2.5 ($\mu\text{g}/\text{m}^3$)	N/A	N/A	N/A	8.67	N/A
Ozone (ppb)	N/A	N/A	N/A	42.5	N/A
Diesel Particulate Matter* ($\mu\text{g}/\text{m}^3$)	0.0204	0.108	21	0.294	<50th
Air Toxics Cancer Risk* (lifetime risk per million)	20	23	0	28	<50th
Air Toxics Respiratory HI*	0.2	0.21	0	0.36	<50th
Traffic Proximity (daily traffic count/distance to road)	16	610	16	760	12
Lead Paint (% Pre-1960 Housing)	0.15	0.14	65	0.27	42
Superfund Proximity (site count/km distance)	0.047	0.15	19	0.13	42
RMP Facility Proximity (facility count/km distance)	0.56	0.97	44	0.77	61
Hazardous Waste Proximity (facility count/km distance)	0.069	0.9	12	2.2	13
Underground Storage Tanks (count/km ²)	0.1	1.7	0	3.9	28
Wastewater Discharge (toxicity-weighted concentration/m distance)	0.0012	5	42	12	51
Socioeconomic Indicators					
Demographic Index	89%	83%	57	35%	98
People of Color	99%	99%	22	40%	96
Low Income	80%	72%	58	30%	97
Unemployment Rate	5%	15%	24	5%	60
Limited English Speaking Households	83%	68%	81	5%	99
Less Than High School Education	33%	22%	77	12%	92
Under Age 5	4%	4%	58	6%	38
Over Age 64	25%	20%	67	16%	81

*Diesel particulate matter, air toxics cancer risk, and air toxics respiratory hazard index are from the EPA's Air Toxics Data Update, which is the Agency's ongoing, comprehensive evaluation of air toxics in the United States. This effort aims to prioritize air toxics, emission sources, and locations of interest for further study. It is important to remember that the air toxics data presented here provide broad estimates of health risks over geographic areas of the country, not definitive risks to specific individuals or locations. Cancer risks and hazard indices from the Air Toxics Data Update are reported to one significant figure and any additional significant figures here are due to rounding. More information on the Air Toxics Data Update can be found at: <https://www.epa.gov/haps/air-toxics-data-update>.

For additional information, see: www.epa.gov/environmentaljustice

EJScreen is a screening tool for pre-decisional use only. It can help identify areas that may warrant additional consideration, analysis, or outreach. It does not provide a basis for decision-making, but it may help identify potential areas of EJ concern. Users should keep in mind that screening tools are subject to substantial uncertainty in their demographic and environmental data, particularly when looking at small geographic areas. Important caveats and uncertainties apply to this screening-level information, so it is essential to understand the limitations on appropriate interpretations and applications of these indicators. Please see EJScreen documentation for discussion of these issues before using reports. This screening tool does not provide data on every environmental impact and demographic factor that may be relevant to a particular location. EJScreen outputs should be supplemented with additional information and local knowledge before taking any action to address potential EJ concerns.

Appendix C

Environmental Site Inspection Report

Pre-Site Visit Environmental Questionnaire

Project Name:	Mariano Crespo Ramos DBA
Application ID:	PR-RGRW-01310
Applicant Name:	Mariano Crespo Ramos
Address:	Carr.407 Km.3.7, Las Marías, PR 00670
Coordinates:	18.273381, -67.008256
Cadastral Number:	183-000-005-87-000
Municipio:	Las Marías

Property Information
<p>Current use of the property? The use of the property is agricultural, crops: oranges, plantains, pineapples, and eddoes. There is a greenhouse on the site location.</p>
<p>Is the site currently vacant/undeveloped? Are there any existing structures on the property that will be removed for the project? The site location is vacant. Approximately ten months ago, there were cisterns on one of the site locations, but they removed them to use that area for the generators. As for today, the area is not cultivated because Hurricane Fiona (2022) destroyed everything.</p>
<p>Are there any known environmental hazards on or adjacent to the property? No, there are no environmental hazards on or adjacent to the property.</p>
Project Activities
<p>What are all the proposed activities funded for this project? The proposed activities funded for this project are the purchase of a generator, to build a greenhouse, fix the existing greenhouse, and to improve the irrigation system with the existing cisterns.</p>
<p>What is the purpose and need for the project? We don't have the economic capacity to buy this equipment. The generator will provide electricity to work the pumps for the irrigation system to the greenhouse. It will also offer the ability to refrigerate in the cooler the produce that we can't sell to the grocery stores right out of the way. This equipment will also help to save money on the use of potable water and reuse rainwater instead. Also, during the dry months will provide water to keep producing. The new greenhouse will help increase the production of "recao" and cilantro, which need a roof to control the water it receives.</p>

What are the dimensions of all project components? (Total project footprint - acres, depth, width, linear feet, sq ft, workspaces)

Greenhouse: 72x30 ft.

Generator: 12kW, space: 2x3 ft.

Cisterns: 2000 gallons between two (they already exist)

Construction Activities

Detailed description of construction activities:

They will hire a specialist to build the greenhouse and an electrician expert to make the connections to the generator.

Where will additional workspace and construction work area occur on the site? (e.g., construction laydown areas)

There will be a workspace to store the equipment (pipes, and material for the greenhouse).

Do you have any construction plans or site plans for the project?

Yes, we will provide them in person.

Will the project require the installation or improvement of site infrastructure and utilities (i.e, roads, water/sewer/electric utility, etc.)?

The irrigation system needs to be improved and the electricity utility.

Any tree clearing required for the construction or installation of the project?

No, tree clearing just some pruning.

What is the extent of ground disturbances? Vegetation removal?

The area is clean, it's being pruned.

Has any work been started on the project? If so, what activities have been performed, include date started and completed. Please include work/activities not being funded through CDBG funds.

No, the only thing already in place was the platforms for the cisterns and the generator before they applied for the funds.

How will construction debris from the project, if any, be disposed?

The debris from the project will be disposed around the farm (e.g., soils).

Were alternative sites identified or evaluated prior to site selection?

There are three available spaces for the greenhouse.

No changes for the cisterns, which are going to be close to the existing greenhouse and the proposed one.

The generator has two available locations, 10 to 15 feet from each other, but it depends on the recommendations of the electrician expert.

Additional Studies

Have any additional special studies (e.g., wetland delineation, cultural resources survey, Asbestos, lead-based paint assessments, mold inspections, etc.) been completed? If so, please include a copy of assessment results with your response

No other studies were made, only the soil surveys for the oranges and plantains to verify the acidity of the area.

Additional Notes



ENVIRONMENTAL FIELD ASSESSMENT FORM

ReGrow

Applicant Name: Mariano Crespo Ramos DBA	Program ID: PR-RGRW-01310
Project Coordinates: 18.273381, -67.008256	Parcel ID: 183-000-005-87-000
Parcel Address: Carr.407 Km.3.7	Municipio: Las Marías
Zip Code: 00670	

Inspector Name: Delise Torres-Ortiz	Inspection Date: 01/30/2023
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General Site Conditions

Was property accessible by vehicle?	Yes	Comment:
Access issues?	Yes	Comment: Dogs, Locked gate
Are water wells present?	No	Comment:
Are creeks or ponds present?	Yes	Comment: stream close-by but not for the crops
Are any potential wetlands on-site or visible on adjacent parcel?	No	Comment:

Parcel Conditions

Note – for Any Yes answers specify type, contents and location

Are commercial or industrial hazardous facilities at parcel or within visual sight?	No	Comment:
Are there signs of underground storage tanks?	No	Comment:
Are above-ground tanks >10 gallons present? If Yes, also state condition.	No	Comment:
Are 55-gallon drums present? If Yes, also state condition.	No	Comment:
Are abandoned vehicles or electrical equipment present?	No	Comment:



ENVIRONMENTAL FIELD ASSESSMENT FORM

ReGrow

Is other potential environmentally hazardous debris on the parcel?	No	Comment:
Is there non-environmentally hazardous debris on the parcel?	No	Comment:
Are any leaks, soil stains, or stressed vegetation present associated with any of the above or separately?	No	Comment:
Are there any pungent, foul or noxious odors?	No	Comment:
Are there any potentially hazardous trees that could fall?	No	Comment:
Are any bird nests visible?	No	Comment:
Are there any animal burrows visible?	No	Comment:

Additional Needs Analysis

Based on the above findings, does additional information need to be obtained from the applicant to determine whether an environmental hazard is present?	No	Comment:
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☒ I verify that I have physically visited this property and that the findings outlined above are accurate.

Delise Torres Ortiz
{Delise Torres Ortiz}
{01/30/2023}

Project #: PR-RGRW-01310	Photographer: Delise Torres-Ortiz
Location Address: Carr.407 Km.3.7, Las Marías, PR 00670	Coordinates: 18.273381, -67.008256

Photo #: 01	Date: 01/30/ 2023	
Photo Direction: N		
Description: Second possible location for the generator (one of two options).		

Photo #: 02	Date: 01/30/ 2023
Photo Direction: N	
Description: First possible location for the generator (one of two options).	

A photograph showing a gravel area, likely a drainage or construction site, bordered by a concrete curb and large rocks. The area is filled with dark blue/black gravel. In the background, there is a paved road and dense tropical vegetation, including banana trees and other green plants. A utility pole is visible on the right side of the road.

Project #: PR-RGRW-01310	Photographer: Delise Torres-Ortiz
Location Address: Carr.407 Km.3.7, Las Marías, PR 00670	Coordinates: 18.273381, -67.008256

Photo #: 03	Date: 01/30/ 2023	
Photo Direction: NE		
Description: Warehouse, applicant plans to do a cooler, therefore the need for the generator nearby.		

Photo #: 04	Date: 01/30/ 2023
Photo Direction: NE	
Description: Access road to the generator site location and warehouse/cooler.	

A photograph showing a dirt road that leads up a grassy, slightly eroded hillside. In the background, a small, single-story building with light blue or grey walls and a dark roof is visible. The building has a central doorway and two windows with white shutters. The surrounding area is covered with dense tropical vegetation, including large-leafed plants and various trees. The sky is bright, suggesting a sunny day.

Project #: PR-RGRW-01310	Photographer: Delise Torres-Ortiz
Location Address: Carr.407 Km.3.7, Las Marías, PR 00670	Coordinates: 18.273381, -67.008256


Photo #: 05	Date: 01/30/ 2023
Photo Direction: NW	
Description: Access road to the greenhouse site locations.	

A photograph of a narrow, unpaved dirt road winding through a dense tropical forest. The road is reddish-brown and appears to be made of compacted earth and small stones. On the right side of the road, there is a large, prominent tree with a thick, light-colored trunk and lush green foliage. The left side of the road is bordered by a steep, eroded bank covered in dense green vegetation and some fallen branches. The path leads into the distance, where more trees and foliage are visible under a bright sky. The overall scene suggests a remote, natural location, likely the access road to a greenhouse site as mentioned in the description.

Photo #: 06	Date: 01/30/ 2023	
Photo Direction: SE		
Description: Access road to the greenhouse site locations, opposite direction.		

Project #: PR-RGRW-01310	Photographer: Delise Torres-Ortiz
Location Address: Carr.407 Km.3.7, Las Marías, PR 00670	Coordinates: 18.273381, -67.008256

Photo #: 07	Date: 01/30/ 2023	
Photo Direction: N		
Description: Eastern cistern platform – overview from center of location.		

Photo #: 08	Date: 01/30/ 2023	
Photo Direction: E		
Description: Eastern cistern platform – overview from center of location.		

Project #: PR-RGRW-01310	Photographer: Delise Torres-Ortiz
Location Address: Carr.407 Km.3.7, Las Marías, PR 00670	Coordinates: 18.273381, -67.008256

Photo #: 09	Date: 01/30/ 2023	
Photo Direction: S		
Description: Eastern cistern platform – overview from center of location.		

Photo #: 10	Date: 01/30/ 2023
Photo Direction: W	
Description: Eastern cistern platform – overview from center of location.	



Project #: PR-RGRW-01310	Photographer: Delise Torres-Ortiz
Location Address: Carr.407 Km.3.7, Las Marías, PR 00670	Coordinates: 18.273381, -67.008256

Photo #: 11	Date: 01/30/ 2023	
Photo Direction: NE		
Description: Overview of existing greenhouse – next to proposed site location for the new greenhouse.		

Photo #: 12	Date: 01/30/ 2023	
Photo Direction: N		
Description: South corner overview of proposed greenhouse, first site location option.		

Project #: PR-RGRW-01310	Photographer: Delise Torres-Ortiz
Location Address: Carr.407 Km.3.7, Las Marías, PR 00670	Coordinates: 18.273381, -67.008256

Photo #: 13	Date: 01/30/ 2023	
Photo Direction: N		
Description: Northern cistern platform – overview from center of location.		

Photo #: 14	Date: 01/30/ 2023	
Photo Direction: E		
Description: Northern cistern platform – overview from center of location.		

Project #: PR-RGRW-01310	Photographer: Delise Torres-Ortiz
Location Address: Carr.407 Km.3.7, Las Marías, PR 00670	Coordinates: 18.273381, -67.008256

Photo #: 15	Date: 01/30/ 2023
Photo Direction: S	
Description: Northern cistern platform – overview from center of location.	

A photograph showing a grassy field in the foreground, with a dense line of trees and foliage in the background. A small white object, possibly a piece of paper or a small structure, is visible on the ground in the lower right corner. The sky is blue with some light clouds.

Photo #: 16	Date: 01/30/ 2023	
Photo Direction: W		
Description: Northern cistern platform – overview from center of location.		

Project #: PR-RGRW-01310	Photographer: Delise Torres-Ortiz
Location Address: Carr.407 Km.3.7, Las Marías, PR 00670	Coordinates: 18.273381, -67.008256

Photo #: 17	Date: 01/30/ 2023	
Photo Direction: E		
Description: West corner overview of proposed greenhouse first site location option.		

Photo #: 18	Date: 01/30/ 2023	
Photo Direction: S		
Description: North corner overview of proposed greenhouse first site location option.		

Project #: PR-RGRW-01310	Photographer: Delise Torres-Ortiz
Location Address: Carr.407 Km.3.7, Las Marías, PR 00670	Coordinates: 18.273381, -67.008256

Photo #: 19	Date: 01/30/ 2023	
Photo Direction: W		
Description: East corner overview of proposed greenhouse first site location option.		

Photo #: 20	Date: 01/30/ 2023	
Photo Direction: N		
Description: Overview of first site location option from center of site location – greenhouse.		

Project #: PR-RGRW-01310	Photographer: Delise Torres-Ortiz
Location Address: Carr.407 Km.3.7, Las Marías, PR 00670	Coordinates: 18.273381, -67.008256

Photo #: 21	Date: 01/30/ 2023	
Photo Direction: E		
Description: Overview of first site location option from center of site location – greenhouse.		

Photo #: 22	Date: 01/30/ 2023	
Photo Direction: S		
Description: Overview of first site location option from center of site location – greenhouse.		

Project #: PR-RGRW-01310	Photographer: Delise Torres-Ortiz
Location Address: Carr.407 Km.3.7, Las Marías, PR 00670	Coordinates: 18.273381, -67.008256

Photo #: 23	Date: 01/30/ 2023	
Photo Direction: W		
Description: Overview of first site location option from center of site location – greenhouse.		

Photo #: 24	Date: 01/30/ 2023	
Photo Direction: SE		
Description: Workspace for the greenhouse and cisterns.		

Project #: PR-RGRW-01310	Photographer: Delise Torres-Ortiz
Location Address: Carr.407 Km.3.7, Las Marías, PR 00670	Coordinates: 18.273381, -67.008256

Photo #: 25	Date: 01/30/ 2023	
Photo Direction: NW		
Description: Southeast corner of second site location option for the proposed greenhouse.		

Photo #: 26	Date: 01/30/ 2023	
Photo Direction: NE		
Description: Southwest corner of second site location option for the proposed greenhouse.		

Project #: PR-RGRW-01310	Photographer: Delise Torres-Ortiz
Location Address: Carr.407 Km.3.7, Las Marías, PR 00670	Coordinates: 18.273381, -67.008256

Photo #: 27	Date: 01/30/ 2023	
Photo Direction: SW		
Description: Northeast corner of second site location option for the proposed greenhouse.		

Photo #: 28	Date: 01/30/ 2023	
Photo Direction: SE		
Description: Northwest corner of second site location option for the proposed greenhouse.		

Project #: PR-RGRW-01310	Photographer: Delise Torres-Ortiz
Location Address: Carr.407 Km.3.7, Las Marías, PR 00670	Coordinates: 18.273381, -67.008256

Photo #: 29	Date: 01/30/ 2023	
Photo Direction: N		
Description: Overview from center of second option for the greenhouse.		

Photo #: 30	Date: 01/30/ 2023	
Photo Direction: E		
Description: Overview from center of second option for the greenhouse.		

Project #: PR-RGRW-01310	Photographer: Delise Torres-Ortiz
Location Address: Carr.407 Km.3.7, Las Marías, PR 00670	Coordinates: 18.273381, -67.008256

Photo #: 31	Date: 01/30/ 2023	
Photo Direction: S		
Description: Overview from center of second option for the greenhouse.		

Photo #: 32	Date: 01/30/ 2023	
Photo Direction: W		
Description: Overview from center of second option for the greenhouse.		

Project #: PR-RGRW-01310	Photographer: Delise Torres-Ortiz
Location Address: Carr.407 Km.3.7, Las Marías, PR 00670	Coordinates: 18.273381, -67.008256

Photo #: 33	Date: 01/30/ 2023	
Photo Direction: NE		
Description: Southeast corner overview of third option for greenhouse		

Photo #: 34	Date: 01/30/ 2023	
Photo Direction: NW		
Description: Southwest corner overview of third option for greenhouse		

Project #: PR-RGRW-01310	Photographer: Delise Torres-Ortiz
Location Address: Carr.407 Km.3.7, Las Marías, PR 00670	Coordinates: 18.273381, -67.008256

Photo #: 35	Date: 01/30/ 2023	
Photo Direction: SW		
Description: Northeast corner overview of third option for greenhouse		

Photo #: 36	Date: 01/30/ 2023	
Photo Direction: SE		
Description: Northwest corner overview of third option for greenhouse.		

Project #: PR-RGRW-01310	Photographer: Delise Torres-Ortiz
Location Address: Carr.407 Km.3.7, Las Marías, PR 00670	Coordinates: 18.273381, -67.008256

Photo #: 37	Date: 01/30/ 2023	
Photo Direction: N		
Description: Overview from center of third option for the greenhouse.		

Photo #: 38	Date: 01/30/ 2023	
Photo Direction: E		
Description: Overview from center of third option for the greenhouse.		

Project #: PR-RGRW-01310	Photographer: Delise Torres-Ortiz
Location Address: Carr.407 Km.3.7, Las Marías, PR 00670	Coordinates: 18.273381, -67.008256

Photo #: 39	Date: 01/30/ 2023	
Photo Direction: S		
Description: Overview from center of third option for the greenhouse.		

Photo #: 40	Date: 01/30/ 2023	
Photo Direction: W		
Description: Overview from center of third option for the greenhouse.		