Commonwealth of Puerto Rico Office of the Governor

CZ-2021-1209-041

JP-833

Puerto Rico Planning Board Physical Planning Area Land Use Planning Bureau

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

General Instructions:

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

DO NOT WRITE IN THIS BOX					
Type of application: Application Number:					
Date received: Date of Certification:					
Evaluation result: Objection Acceptance Negotiation					
Technician: Supervisor:					
Comments:					
1. Name of Federal Agency: U.S. Army Corps of Engineers, Jacksonville District					
2. Federal Program Catalog Number: <u>12.106 Flood Control Projects CFDA</u>					
3. Type of Action:					
X Federal Activity License or permit Federal Assistance					
4. Name of Applicant: <u>Angela E. Dunn, Environmental Branch Chief for US Army Corps of Engineers</u>					
Postal Address: 701 San Marco Blvd. Jacksonville, FL 32207-8175					
Telephone: <u>904-232-2336</u> Fax: <u>904-232-3442</u>					
5. Project name: Puerto Rico Coastal Storm Risk Management (CSRM) Project, Puerto Rico					
6. Physical Description of Project Location (area, facilities such as vehicular access, drainage, storm and sanitary sewer placement, etc.):					

Condado Beach: Condado Beach is one of the smallest areas of dry beach in the San Juan area. The proposed work covers from La Ventana al Mar Park to Punta Piedritas headland area. Waves break directly on exposed nearshore reef and rock revetments. This area is highly developed with hotels, condominiums, residential, and commercial buildings. There are currently 8 public beach access points to this area with 1 of these points being blocked.

<u>Ocean Park Beach:</u> This reach extends from Punta Piedrita east about 1.8 miles to Punta Las Marias. The eastern and western extents of Ocean Park Beach contain little to no dry beach with prevalent nearshore hardbottom and a wider central beach expanse. This area is a mixture of single-family homes, condominiums, commercial structures, and hotels. The middle section of this reach includes a public park (Barbosa Park, colloquially known as the Ultimo Trolley), which is historically known for extensive coastal inundation, as storm surge and wave attack may focus on this unimpeded stretch of coast. There are currently 16 public beach access points to this area with 6 of these points being blocked.

<u>Rincón</u>: The Rincón focus area generally contains wider beaches and elevated berm crests to the north and narrower beaches with damaged/abandoned homes, some physically in the water, to the south (Córcega). This area is a mixture of single-family homes, condominiums, commercial structures, and hotels. Seawalls, revetments, and non-engineered armoring protection in front of homes and hotels represent the majority of the coastal protection structures already in place. There are currently 10 public beach access points to this area.

Lambert Coordinates:

Condado Beach	X = <u>66.0757167°W</u>	Y = <u>18.4592341°N</u>
Ocean Park Beach	X = <u>66.0523947°W</u>	Y = <u>18.4544986°N</u>
Rincón	X = <u>67.2490924°W</u>	Y = <u>18.3245289°N</u>

7. Type of construction or other work proposed:

drainage	channeling	landfill	sand extraction
pier	bridge	residential	tourist

others (specify and explain): <u>Revetment, nourishment and breakwaters.</u>

Description of proposed work: <u>The project consists in the construction of structural features in specific</u> <u>locations designed to reduce the risk of damages as a result of wave attack, coastal flooding, and erosion</u> <u>in the municipalities of Rincón and San Juan, Puerto Rico. The structural features would consist of:</u>

- Stone revetment (approximately 0.7 miles) on the headlands of Punta Piedritas (0.4 miles) and Punta Las Marías (0.3 miles) in San Juan,
- Beach nourishment (approximately 0.4 miles) in Condado Beach, San Juan is currently the preferred alternative, but a final preferred plan may propose revetment, nourishment or breakwaters, or a combination of these features.
- Beach nourishment (approximately 1.3 miles) and a series of breakwaters (5 to 8 breakwaters protecting 3,500 ft to 5,500 ft) in Ocean Park Beach, San Juan is currently the preferred alternative, but a final preferred plan may propose revetment, nourishment or breakwaters, or a combination of these features.
- Stone revetment (approximately 1.0 miles) in Rincón is currently the preferred alternative, but a final preferred plan may propose revetment, nourishment or breakwaters, or a combination of these features.

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

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

System	Within	Outside	Distance	Local name of affected system
	Project	Project	(meters)	
beach, dunes	X			Condado Beach, Ocean Park Beach & Rincón.
mangroves, wetlands				
coral, reefs	x	x	0 m	Condado Beach, Ocean Park Beach & Rincón.
river, estuary				
bird sanctuary				
pond, lake, lagoon				
agricultural unit				
forest, wood				
cliff, breakwater				
cultural or tourist area	x			Condado Beach, Ocean Park Beach & Rincón.
other (explain) Submerged Aquatic Vegetation				

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

Positive 🖂

Negative 🔀

Explain:

The proposed revetment work in Punta Piedrita, San Juan could potentially have a direct and indirect impact on 2.53 acres of hardbottom and the proposed revetment work in Punta Las Marías, San Juan could potentially have a direct and indirect impact on 2.13 acres of hardbottom. In Condado Beach, San Juan of the different alternatives proposed, which include revetment, nourishment and/or breakwaters, any of them or their combination would only have direct and indirect impacts on hardbottom. The largest potential impacts from any of the construction footprint measures would impact 4.08 acres of hardbottom. In Ocean Park Beach, San Juan, similar to Condado Beach, of the different alternatives proposed, which include revetment, nourishment and/or breakwaters, any of them would only have direct and indirect impacts on hardbottom. The largest potential impacts from any of the construction footprint measures would impact 5.52 acres of hardbottom. Finally, in Rincón of the different alternatives proposed, which also include revetment, nourishment and/or breakwaters, any of them would only have direct and indirect impacts on hardbottom. The largest potential impacts from any of the construction footprint measures would impact 5.52 acres of hardbottom. Finally, in Rincón of the different alternatives proposed, which also include revetment, nourishment and/or breakwaters, any of them would only have direct and indirect impacts on hardbottom. The largest potential impacts from any of the construction footprint measures would impact 5.33 acres of hardbottom.

Currently 19.59 acres are the greatest potential impacts calculated for this project. At the same time in the reaches where breakwater features may be constructed it would have the potential of creating benthic habitat for aquatic species. As more information is obtained and more analysis is completed it will allow for a

more precise and accurate calculation of the projects design's direct and indirect impacts. A mitigation plan is being developed, nonetheless other Best Management Practices (BMP) and methods will be implemented to manage the construction. Prior to any construction activity, turbidity controls such as turbidity curtains, silt fences, and other BMP measures must be installed. The final details for BMPs and methods will be determined during the permitting and contracting process. The impact to tourist areas would be temporary and access would be restricted during construction for safety reasons.

9. Indicate permits, approvals and endorsements of the proposal by Federal and Puerto Rican government agencies. Evidence of such support should be attached to the proposal.

		Yes	No	Pending	Application Number
a.	Planning Board			X	
b.	Regulation and Permits Administration				
c.	Environmental Quality Board			X	
d.	Department of Natural Resources			X	
e.	State Historic Preservation Office			X	
f.	U.S. Army Corps of Engineers				
g.	U.S. Coast Guard				
h.	Other (s) (specify)				
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CERTIFICATION

I CERTIFY THAT (project name) <u>Puerto Rico CSRM Project</u> is consistent with the Puerto Rico Coastal Zone Management Program, and that to the best of my knowledge the above information is true.

Angela E. Dunn

Name (legible)

Signature

Chief, Environmental Branch

Position

Date



Map 1a. Puerto Rico Coastal Storm Risk Management, San Juan area, 1:20,000 scale topographic map.

Puerto Rico Coastal Storm Risk Management



Rincón

Map 1b. Puerto Rico Coastal Storm Risk Management, Rincón area, 1:20,000 scale topographic map.

Map 2. Condado Beach potential dune nourishment area with a 50-m buffer zone and benthic resources.



Map 3. Condado Beach potential beach nourishment area with a 50-m buffer zone and benthic resources.



Map 4. Condado Beach potential reduced beach nourishment area with a 50-m buffer zone and benthic resources.



Map 5. Condado Beach potential breakwaters area with a 50-m buffer zone and benthic resources.



Map 6. Condado Beach potential reduced beach nourishment and breakwaters area with a 50-m buffer zone and benthic resources.









Map 10. Ocean Park Beach potential reduced beach and dune nourishment area with a 50-m buffer zone and benthic resources that would include the breakwaters in Map 11.



Map 11. Ocean Park Beach potential breakwaters area with a 50-m buffer zone and benthic resources.





Figure 1. Punta Piedritas Preliminary Revetment Design.



Figure 2. Punta Las Marías Preliminary Revetment Design.







Figure 4. Ocean Park Preliminary Breakwater Design for breakwaters number 6-8.



Map 13. Rincón potential beach nourishment area with a 50-m buffer zone and benthic resources.



Map 14. Rincón potential revetment area with a 50-m buffer zone and benthic resources.



Map 15. Rincón potential reduced 25 ft beach nourishment area with a 50-m buffer zone and benthic resources.



Map 16. Rincón potential breakwaters area with a 50-m buffer zone and benthic resources.



Map 17. Rincón potential reduced 25 ft beach nourishment and breakwaters area with a 50-m buffer zone and benthic resources.



