

Department of Homeland Security Federal Emergency Management Agency

General Info

Project #	105721	PW#	10442	Project Type	Specialized
Project Category	G - Parks, Recreational Facilities, and Other Items			Applicant	Local Redevelopment Authority For Roosevelt Roads (000-UJ193-00)
Project Title	MLRA021 - Finger Pier & Dry Dock, Heli Pad			Event	4339DR-PR (4339DR)
Project Size	Large			Declaration Date	9/20/2017
Activity Completion Date	9/20/2024			Incident Start Date	9/17/2017
Process Step	Obligated			Incident End Date	11/15/2017

Damage Description and Dimensions

The Disaster # 4339DR, which occurred between *09/17/2017* and *11/15/2017*, caused:

Damage #152543; Other Facilities - Pier - Finger Pier & Dry Dock

General Facility Information:

- **Facility Type:** Parks, Cemeteries, and Recreational Facilities
- **Facility:** Dry Dock and Finger Pier
- **Facility Description:** The Roosevelt Roads Dry Dock measures approximately 1,153 feet in length, 142 feet in width.
- **Approx. Year Built:** 1943
- **Location Description:** Roosevelt Roads Naval Base, Marina dr., Ceiba , Puerto Rico
- **Start GPS Latitude/Longitude:** 18.22872, -65.60429
- **End GPS Latitude/Longitude:** 18.22707, -65.60187

General Damage Information:

- **Date Damaged:** 9/20/2017
- **Cause of Damage:** Damaged due to hurricane category 4-5 with strong winds, severe ocean waves, wind driven rain, and flooding.

Facility Damage:

Dry Dock / Erosion A:

- Docks, 240 CF of Erosion at Dry Dock Approach. Dimensions are, 20 FT long x 6 FT wide x 2 FT high, Cause of Damage: Other - Eroded terrain due to high tides, 0% work completed.

Dry Dock / Erosion B:

- Docks, 77 CF of Erosion at Dry Dock Approach. Dimensions are, 154 FT long x 1.5 FT wide x 4 IN high, Cause of Damage: Other - Eroded terrain due to high tides, 0% work completed.

Dry Dock / Slab A:

- Docks, 1,450 CF of Structural Concrete Slab. Dimensions are, 174 FT long x 10 FT wide x 10 IN high, Cause of Damage: Other - Missing/damaged Slab due to high tides, 0% work

completed.

- Docks, 14 each of Structural Beam Below Slab. Dimensions are, 10 FT long x 4 FT wide x 2.75 FT high, Cause of Damage: Other - Missing/Cracked Beam due to high tides, 0% work completed.

Dry Dock / Slab B:

- Docks, 1,188 CF of Structural Concrete Slab. Dimensions are, 95 FT long x 15 FT wide x 10 IN high, Cause of Damage: Other - Missing/damaged Slab due to high tides, 0% work completed.

Dry Dock / Slab C:

- Docks, 1,617 CF of Structural Concrete Slab. Dimensions are, 194 FT long x 10 FT wide x 10 IN high, Cause of Damage: Other - Missing/damaged Slab due to high tides, 0% work completed.
- Docks, 15 each of Structural Beam Below Slab. Dimensions are, 10 FT long x 4 FT wide x 2.75 FT high, Cause of Damage: Other - Missing/Cracked Beam due to high tides, 0% work completed.
- Fencing, 1 each of Galvized Steel Chain Link Fence (contains fence fabric, line post, terminal posts and rails). Coordinates - GPS Start: 18.228720, -65.604447 - GPS End: 18.229131, -65.604136. For reference see uploaded document named: Dry Dock DDD Additional Information., 174 FT long x 8 FT high, Damaged by High tides, winds and wind blown debris., 0% work completed.

Dry Dock /Light post:

- Lighting, 3 each of Concrete Light post. Dimensions are, Cause of Damage: Other - Tilted Light post due to high winds, 0% work completed.

Finger Pier / Slab A:

- Piers, 213 CF of Structural Concrete Slab. Dimensions are, 16 FT long x 16 FT wide x 10 IN high, Cause of Damage: Other - Missing/collapsed Slab due to high tides, 0% work completed.
- Piers, 2 each of Structural Beam Below Slab. Dimensions are, 16 FT long x 2 FT wide x 1 FT high, Cause of Damage: Other - Missing/collapsed Beam due to high tides, 0% work completed.

Finger Pier / Slab B:

- Piers, 320 CF of Structural Concrete Slab. Dimensions are, 24 FT long x 16 FT wide x 10 IN high, Cause of Damage: Other - Missing/collapsed Slab due to high tides, 0% work completed.
- Piers, 2 each of Structural Beam Below Slab. Dimensions are, 24 FT long x 2 FT wide x 1 FT high, Cause of Damage: Other - Missing/collapsed Beam due to high tides, 0% work completed.

Finger Pier / Slab C:

- Piers, 347 CF of Structural Concrete Slab. Dimensions are, 26 FT long x 16 FT wide x 10 IN high, Cause of Damage: Other - Missing/collapsed Slab due to high tides, 0% work completed.
- Piers, 2 each of Structural Beam Below Slab. Dimensions are, 26 FT long x 2 FT wide x 1 FT high, Cause of Damage: Other - Missing/collapsed Beam due to high tides, 0% work completed.

Finger Pier / Slab D:

- Piers, 733 CF of Structural Concrete Slab. Dimensions are, 55 FT long x 16 FT wide x 10 IN high, Cause of Damage: Other - Missing/collapsed Slab due to high tides, 0% work completed.
- Piers, 2 each of Structural Beam Below Slab. Dimensions are, 55 FT long x 2 FT wide x 1 FT high, Cause of Damage: Other - Missing/collapsed Beam due to high tides, 0% work completed.

Finger Pier / Slab E:

- Piers, 333 CF of Structural Concrete Slab. Dimensions are, 25 FT long x 16 FT wide x 10 IN high, Cause of Damage: Other - Missing/collapsed Slab due to high tides, 0% work completed.
- Piers, 2 each of Structural Beam Below Slab. Dimensions are, 25 FT long x 2 FT wide x 1

FT high, Cause of Damage: Other - Missing/collapsed Beam due to high tides, 0% work completed.

Finger Pier / Slab F:

- Piers, 760 CF of Structural Concrete Slab. Dimensions are, 57 FT long x 16 FT wide x 10 IN high, Cause of Damage: Other - Missing/collapsed Slab due to high tides, 0% work completed.
- Piers, 2 each of Structural Beam Below Slab. Dimensions are, 57 FT long x 2 FT wide x 1 FT high, Cause of Damage: Other - Missing/collapsed Beam due to high tides, 0% work completed.

Damage #152548; Other Facilities - Helipad at Drydock

General Facility Information:

- **Facility Type:** Other
- **Facility:** Heli-Pad at Dry Dock
- **Facility Description:** Shoreline helipad made of concrete slab over concrete piles. Helipad measures are 154.6 ft x 72 ft
- **Approx. Year Built:** 1943
- **Location Description:** Roosevelt Roads Naval Base, Marina dr., Ceiba, Puerto Rico
- **GPS Latitude/Longitude:** 18.22763, -65.60494

General Damage Information:

- **Date Damaged:** 9/20/2017
- **Cause of Damage:** Hurricane Maria landfall in Puerto Rico as category 4 or 5 with strong winds, severe ocean waves and wind-driven rain.

Facility Damage:

Helipad / Pier Slab:

- Helipad, 200 CF of Pier Concrete Slab. Dimensions are, 60 FT long x 4 FT wide x 10 IN high, Cause of Damage: Damaged Slab due to high tides, 0% work completed.

Helipad / Asphalt A:

- Helipad, 1,200 CF of Asphalt pavement Sub-Base at Helipad Entrance. Dimensions are, 20 FT long x 30 FT wide x 2 FT high, Cause of Damage: Washout and Erosion due to high tides, 0% work completed.
- Helipad, 600 CF of Asphalt pavement Base at Helipad Entrance. Dimensions are, 40 FT long x 30 FT wide x 6 IN high, Cause of Damage: Washout and Erosion due to high tides, 0% work completed.
- Helipad, 600 CF of Asphalt pavement Surface at Helipad Entrance. Dimensions are, 60 FT long x 30 FT wide x 4 IN high, Cause of Damage: Washout and Erosion due to high tides, 0% work completed.

Helipad / Erosion A:

- Helipad, 4,800 CF of Rocks at Helipad Approach. Dimensions are, 40 FT long x 30 FT wide x 4 FT high, Cause of Damage: Eroded terrain due to high tides, 0% work completed.
- Helipad, 4,800 CF of Soil at Helipad Approach. Dimensions are, 40 FT long x 30 FT wide x 4 FT high, Cause of Damage: Eroded terrain due to high tides, 0% work completed.

Helipad / Erosion B:

- Helipad, 540 CF of Soil at Helipad Approach. Dimensions are, 15 FT long x 6 FT wide x 6 FT high, Cause of Damage: Eroded terrain due to high tides, 0% work completed.

Helipad / Erosion C:

- Helipad, 600 CF of Soil at Helipad Approach. Dimensions are, 40 FT long x 30 FT wide x 6 IN high, Cause of Damage: Eroded terrain due to high tides, 0% work completed.

Helipad / Erosion D:

- Helipad, 8,450 CF of Soil at Helipad Building. Dimensions are, 130 FT long x 13 FT wide x 5 FT high, Cause of Damage: Eroded terrain due to high tides, 0% work completed.

Helipad / Erosion E:

- Helipad, 8,178 CF of Soil at Helipad Building. Dimensions are, 58 FT long x 47 FT wide x 3 FT high, Cause of Damage: Eroded terrain due to high tides, 0% work completed.

Helipad / Erosion F:

- Helipad, 880 CF of Soil at Helipad waterfront. Dimensions are, 40 FT long x 22 FT wide x 1 FT high, Cause of Damage: Eroded terrain due to high tides, 0% work completed.

Helipad / Erosion G:

- [Component], 270 CF of - Soil at Helipad waterfront, 15 FT long x 6 FT wide x 3 FT high, Eroded terrain due to high tides, 0% work completed.

Helipad / Slab A:

- Helipad, 3 each of Structural Concrete Slab (rail slab). Dimensions are, 40 FT long x 2 FT wide x 1 IN high, Cause of Damage: Missing/damaged Slab due to high tides, 0% work completed.

Final Scope

152543 Other Facilities - Pier - Finger Pier & Dry Dock

Work to be Completed

The applicant will utilize contracts for repairs to Finger Pier & Dry Dock, to restore facilities back to pre-disaster design, function and capacity (in-kind) within the existing footprint.

Dry Dock / Erosion A:

- A. Replace 240 CF of backfill soil material to repair the Dry Dock Approach, 20 FT long x 6 FT wide x 2 FT high.

Dry Dock / Erosion B:

- A. Replace 77 CF of backfill soil material to repair the Dry Dock Approach, 154 FT long x 1.5 FT wide x 4 IN high.

Dry Dock / Slab A:

- A. Remove and replace 1,450 CF of reinforced concrete to repair the structural concrete slab, 174 FT long x 10 FT wide x 10 IN high,
- B. Remove and replace 14 EA of structural beam below slab, 10 FT long x 4 FT wide x 2.75 FT high.

Dry Dock / Slab B:

- A. Remove and replace 1,188 CF of reinforced concrete to repair the structural concrete slab, 95 FT long x 15 FT wide x 10 IN high.

Dry Dock / Slab C:

- A. Remove and replace 174 LF of 8 FT high galvanized steel chain link fence.
- B. Remove and replace 1,617 CF of reinforced concrete to repair the structural concrete slab, 194 FT long x 10 FT wide x 10 IN high.
- C. Remove and replace 15 EA of structural beam below slab, 10 FT long x 4 FT wide x 2.75 FT high.

Dry Dock /Light post:

- A. Remove and realign 3 EA existing concrete light post.

Finger Pier / Slab A:

- A. Remove and replace 213 CF of reinforced concrete to repair the structural concrete slab, 16 FT long x 16 FT wide x 10 IN high.
- B. Remove and replace 2 EA structural beam below slab, 16 FT long x 2 FT wide x 1 FT high.

Finger Pier / Slab B:

- A. Remove and replace 320 CF of reinforced concrete to repair the structural concrete slab, 24 FT long x 16 FT wide x 10 IN high.
- B. Remove and replace 2 EA structural beam below slab, 24 FT long x 2 FT wide x 1 FT high.

Finger Pier / Slab C:

- A. Remove and replace 347 CF of reinforced concrete to repair the structural concrete slab, 26 FT long x 16 FT wide x 10 IN high.
- B. Remove and replace 2 EA structural beam below slab, 26 FT long x 2 FT wide x 1 FT high.

Finger Pier / Slab D:

- A. Remove and replace 733 CF of reinforced concrete to repair the structural concrete slab, 55 FT long x 16 FT wide x 10 IN high.
- B. Remove and replace 2 EA structural beam below slab, 55 FT long x 2 FT wide x 1 FT high.

Finger Pier / Slab E:

- A. Remove and replace 333 CF of reinforced concrete to repair the structural concrete slab, 25 FT long x 16 FT wide x 10 IN high.
- B. Remove and replace 2 EA structural beam below slab, 25 FT long x 2 FT wide x 1 Date FT high.

Finger Pier / Slab F:

- A. Remove and replace 760 CF of reinforced concrete to repair the structural concrete slab, 57 FT long x 16 FT wide x 10 IN high.
- B. Remove and replace 2 EA structural beam below slab, 57 FT long x 2 FT wide x 1 FT high.

Work to be Completed Total: \$600,423.48

Cost Estimating Format (CEF): \$1,360,707.32

Project Total: \$1,453,295.29

Scope Notes:

1. The architectural and engineering costs for this large DI are included in the H.2 factors of the CEF.

Project Notes:

1. All site estimates for work to be completed were generated using RS means Software Data/Year 2022 Quarter 2 – PUERTO RICO / URBAN (PRU). See document labeled *SP105721 - DR4339PR - Cost Estimate.xlsx*.
2. A Cost Estimating Format (CEF) has been created for this project, see attachment labeled: *SP105721 - DR4339PR - CEF.xlsx*.
3. GPS coordinates have been checked for accuracy.
4. For work to be completed, the applicant is required to obtain any necessary Federal, State, and Local permits (including environmental), prior to the start of construction.
5. Please look for Maintenance Records in applicant's section. See document labeled: *LRA-21-61 Dry Dock Maintenance Record.pdf*.
6. All procurement documents attached have been reviewed and will be in accordance with state and federal requirements. See attached documents labeled: *Procurement Policy - LRA.pdf*.
7. Quantities in the SOW and Cost Estimate may vary from the DDD to adapt for unit's conversion from RS means database and for best construction practices.

406 HMP Scope

Damage #152543; Other Facilities - Pier - Finger Pier & Dry Dock (I) Damages Description & Dimensions (DDD): (Building Damage - Relevant / In Kind Scope of Work)

1. Docks, 1,450 CF of Structural Concrete Slab. Dimensions are, 174 FT long x 10 FT wide x 10 IN high, Cause of Damage: Other - Missing/damaged Slab due to high tides, 0% work completed.
2. Docks, 14 each of Structural Beam Below Slab. Dimensions are, 10 FT long x 4 FT wide x 2.75 FT high, Cause of Damage: Other - Missing/Cracked Beam due to high tides, 0% work completed.
3. Docks, 1,188 CF of Structural Concrete Slab. Dimensions are, 95 FT long x 15 FT wide x 10 IN high, Cause of Damage: Other - Missing/damaged Slab due to high tides, 0% work completed.
4. Docks, 1,617 CF of Structural Concrete Slab. Dimensions are, 194 FT long x 10 FT wide x 10 IN high, Cause of Damage: Other - Missing/damaged Slab due to high tides, 0% work completed.
5. Docks, 15 each of Structural Beam Below Slab. Dimensions are, 10 FT long x 4 FT wide x 2.75 FT high, Cause of Damage: Other - Missing/Cracked Beam due to high tides, 0% work completed.
6. Piers, 213 CF of Structural Concrete Slab. Dimensions are, 16 FT long x 16 FT wide x 10 IN high, Cause of Damage: Other - Missing/collapsed Slab due to high tides, 0% work completed.
7. Piers, 2 each of Structural Beam Below Slab. Dimensions are, 16 FT long x 2 FT wide x 1 FT high, Cause of Damage: Other - Missing/collapsed Beam due to high tides, 0% work completed.
8. Piers, 320 CF of Structural Concrete Slab. Dimensions are, 24 FT long x 16 FT wide x 10 IN high, Cause of Damage: Other - Missing/collapsed Slab due to high tides, 0% work completed.
9. Piers, 2 each of Structural Beam Below Slab. Dimensions are, 24 FT long x 2 FT wide x 1 FT high, Cause of Damage: Other - Missing/collapsed Beam due to high tides, 0% work completed.
10. Piers, 347 CF of Structural Concrete Slab. Dimensions are, 26 FT long x 16 FT wide x 10 IN high, Cause of Damage: Other - Missing/collapsed Slab due to high tides, 0% work completed.

11. Piers, 2 each of Structural Beam Below Slab. Dimensions are, 26 FT long x 2 FT wide x 1 FT high, Cause of Damage: Other - Missing/collapsed Beam due to high tides, 0% work completed.
12. Piers, 733 CF of Structural Concrete Slab. Dimensions are, 55 FT long x 16 FT wide x 10 IN high, Cause of Damage: Other - Missing/collapsed Slab due to high tides, 0% work completed.
13. Piers, 2 each of Structural Beam Below Slab. Dimensions are, 55 FT long x 2 FT wide x 1 FT high, Cause of Damage: Other - Missing/collapsed Beam due to high tides, 0% work completed.
14. Piers, 333 CF of Structural Concrete Slab. Dimensions are, 25 FT long x 16 FT wide x 10 IN high, Cause of Damage: Other - Missing/collapsed Slab due to high tides, 0% work completed.
15. Piers, 2 each of Structural Beam Below Slab. Dimensions are, 25 FT long x 2 FT wide x 1 FT high, Cause of Damage: Other - Missing/collapsed Beam due to high tides, 0% work completed.
16. Piers, 760 CF of Structural Concrete Slab. Dimensions are, 57 FT long x 16 FT wide x 10 IN high, Cause of Damage: Other - Missing/collapsed Slab due to high tides, 0% work completed.
17. Piers, 2 each of Structural Beam Below Slab. Dimensions are, 57 FT long x 2 FT wide x 1 FT high, Cause of Damage: Other - Missing/collapsed Beam due to high tides, 0% work completed.

(II) Hazard Mitigation Proposal (HMP) Scope of Work:

In order to prevent or reduce future damages from similar events, the applicant proposed the following mitigation measures:

1. The application of an epoxy coating to the reinforcing steel bars on structural concrete.

(III) Hazard Mitigation Proposal (HMP) Cost

Total Net Hazard Mitigation Cost (Base Cost) =	\$ 53,966.25
+ HM Soft Cost =	<u>\$ 100,464.82</u>
Net Hazard Mitigation cost + HM Soft Cost = Hazard Mitigation Total Cost =	\$ 154,431.07

(IV) HMP Cost-Effectiveness Calculations

HMR = (Total Net Hazard Mitigation Cost / Project Net In-Kind Repair Cost) x 100

HMR = (\$53,966.25/\$442,648.07) x 100 = **12.19%**

The cost of this Hazard Mitigation Proposal (HMP) is **12.19 %** of the repair or restoration costs and is deemed cost effective per FEMA Public Assistance Program and Policy Guide (PAPPG) V3.1 April2018, Chapter 2, VII., Section C, **X 15% Rule, 100% Rule, BCA Rule**. This Hazard Mitigation Proposal meets eligible repair and restoration cost effective requirements.

**Cost effective calculation should be taken before CEF Factors, Soft Costs, or other Factors.*

*** See the HMP Cost estimate for a more detailed breakdown of HMP costs and cost effectiveness calculation(s).*

****See Mitigation Profile Documents Tab in Grants Manager for complete version of this HMP and supporting documents. (HMP, HMP cost estimate, Supporting documents file)*

152548 Other Facilities - Helipad at Drydock

Work to be Completed

The applicant will utilize contracts for repairs to Other Facilities - Helipad at Drydock, to restore facilities back to pre-disaster design, function and capacity (in-kind) within the existing footprint.

Helipad / Pier Slab:

- A. Replace 200 CF of reinforced concrete to repair the concrete slab, 60 FT long x 4 FT wide x 10 IN high.

Helipad / Asphalt A:

- A. Replace 1,200 CF of asphalt pavement sub-base at helipad entrance, 20 FT long x 30 FT wide x 2 FT high.
- B. Replace 600 CF of asphalt pavement base at helipad entrance, 40 FT long x 30 FT wide x 6 IN high.
- C. Remove and replace 600 CF of asphalt pavement surface at helipad entrance, 60 FT long x 30 FT wide x 4 IN high.

Helipad / Erosion A:

- A. Replace 4,800 CF of rocks at helipad approach, 40 FT long x 30 FT wide x 4 FT high.
- B. Replace 4,800 CF of soil at helipad approach, 40 FT long x 30 FT wide x 4 FT high.

Helipad / Erosion B:

- A. Replace 540 CF of soil at helipad approach, 15 FT long x 6 FT wide x 6 FT high.

Helipad / Erosion C:

- A. Replace 600 CF of soil at helipad approach, 40 FT long x 30 FT wide x 6 IN high.

Helipad / Erosion D:

- A. Replace 8,450 CF of soil at helipad building, 130 FT long x 13 FT wide x 5 FT high.

Helipad / Erosion E:

- A. Replace 8,178 CF of soil at helipad building, 58 FT long x 47 FT wide x 3 FT high.

Helipad / Erosion F:

- A. Replace 880 CF of soil at helipad waterfront, 40 FT long x 22 FT wide x 1 FT high.

Helipad / Erosion G:

- A. Replace 270 CF of soil at helipad waterfront, 15 FT long x 6 FT wide x 3 FT high.

Helipad / Slab A:

- A. Repair concrete spalling at 3 EA structural concrete slabs, 40 FT long x 2 FT wide x 3 IN high.

Work to be Completed Total: \$92,587.97

406 HMP Scope

Damage #152548; Other Facilities - Helipad at Drydock

(I) Damages Description & Dimensions (DDD): (Building Damage - Relevant / In Kind Scope of Work)

1. Helipad, 200 CF of Pier Concrete Slab. Dimensions are, 60 FT long x 4 FT wide x 10 IN high, Cause of Damage: Damaged Slab due to high tides, 0% work completed.
2. Helipad, 1,200 CF of Asphalt pavement Sub-Base at Helipad Entrance. Dimensions are, 20 FT long x 30 FT wide x 2 FT high, Cause of Damage: Washout and Erosion due to high tides, 0% work completed.
3. Helipad, 600 CF of Asphalt pavement Base at Helipad Entrance. Dimensions are, 40 FT long x 30 FT wide x 6 IN high, Cause of Damage: Washout and Erosion due to high tides, 0% work completed.
4. Helipad, 600 CF of Asphalt pavement Surface at Helipad Entrance. Dimensions are, 60 FT long x 30 FT wide x 4 IN high, Cause of Damage: Washout and Erosion due to high tides, 0% work completed.
5. Helipad, 4,800 CF of Rocks at Helipad Approach. Dimensions are, 40 FT long x 30 FT wide x 4 FT high, Cause of Damage: Eroded terrain due to high tides, 0% work completed.
6. Helipad, 3 each of Structural Concrete Slab (rail slab). Dimensions are, 40 FT long x 2 FT wide x 1 IN high, Cause of Damage: Missing/damaged Slab due to high tides, 0% work completed.

(II) Hazard Mitigation Proposal (HMP) Scope of Work:

In order to prevent or reduce future damages from similar events, the applicant proposed the following mitigation measures:

1. The application of an epoxy coating to the reinforcing steel bars on structural concrete.
2. The installation of an asphalt reinforcement (equal or similar to Tensar GlasPave)

(III) Hazard Mitigation Proposal (HMP) Cost

Total Net Hazard Mitigation Cost (Base Cost) =	\$ 1,682.13
+ HM Soft Cost =	\$ <u>697.96</u>
Net Hazard Mitigation cost + HM Soft Cost = Hazard Mitigation Total Cost =	\$ 2,380.09

(IV) HMP Cost-Effectiveness Calculations

HMR = (Total Net Hazard Mitigation Cost / Project Net In-Kind Repair Cost) x 100

HMR = $(\$1,682.13 / \$18,474.87) \times 100 = 9.10\%$

The cost of this Hazard Mitigation Proposal (HMP) is **9.10 %** of the repair or restoration costs and is deemed cost effective per FEMA Public Assistance Program and Policy Guide (PAPPG) V3.1 April2018, Chapter 2, VII., Section C, **X 15% Rule**, **___ 100% Rule**, **___ BCA Rule**. This Hazard Mitigation Proposal meets eligible repair and restoration cost effective requirements.

***Cost effective calculation should be taken before CEF Factors, Soft Costs, or other Factors.**

**** See the HMP Cost estimate for a more detailed breakdown of HMP costs and cost effectiveness calculation(s).**

*****See Mitigation Profile Documents Tab in Grants Manager for complete version of this HMP and supporting documents. (HMP, HMP cost estimate, Supporting documents file)**

Cost

Code	Quantity	Unit	Total Cost	Section
9000 (FEMA CEF)	1.00	Lump Sum	\$1,360,707.32	Uncompleted
9001 (FEMA Cost Estimate)	1.00	Lump Sum	\$92,587.97	Uncompleted

CRC Gross Cost \$1,453,295.29

Total 406 HMP Cost \$156,811.16

Total Insurance Reductions \$0.00

CRC Net Cost \$1,610,106.45

Federal Share (90.00%) \$1,449,095.81

Non-Federal Share (10.00%) \$161,010.64

Award Information

Version Information

Version #	Eligibility Status	Current Location	Bundle Number	Project Amount	Cost Share	Federal Share Obligated	Date Obligated
0	Eligible	Awarded	PA-02-PR-4339-PW-10442(11979)	\$1,610,106.45	90 %	\$1,449,095.81	6/24/2022

Drawdown History

EMMIE Drawdown Status As of Date	IFMIS Obligation #	Expenditure Number	Expended Date	Expended Amount
8/23/2023	4339DRPRP00104421	20172YNK-08222023	8/21/2023	\$362,273.95

Obligation History

Version #	Date Obligated	Obligated Cost	Cost Share	IFMIS Status	IFMIS Obligation #
-----------	----------------	----------------	------------	--------------	--------------------

Subgrant Conditions

- As described in Title 2 Code of Federal Regulations (C.F.R.) § 200.333, financial records, supporting documents, statistical records and all other non-Federal entity records pertinent to a Federal award must be retained for a period of three (3) years from the date of submission of the final expenditure report or, for Federal awards that are renewed quarterly or annually, from the date of the submission of the quarterly or annual financial report, respectively, as reported to the Federal awarding agency or pass-through entity in the case of a subrecipient. Federal awarding agencies and pass-through entities must not impose any other record retention requirements upon non-Federal entities. Exceptions are stated in 2 C.F.R. §200.333(a) – (f)(1) and (2). All records relative to this project are subject to examination and audit by the State, FEMA and the Comptroller General of the United States and must reflect work related to disaster-specific costs.
- In the seeking of proposals and letting of contracts for eligible work, the Applicant/Subrecipient must comply with its Local, State (provided that the procurements conform to applicable Federal law) and Federal procurement laws, regulations, and procedures as required by FEMA Policy 2 CFR Part 200, Procurement Standards, §§ 317-326.
- The Recipient must submit its certification of the subrecipient's completion of this project, the final claim for payment, and supporting documentation within 180 days from the date that the applicant completes the scope of work, or the project deadline, whichever occurs first. FEMA reimburses Large Projects (those with costs above the large project threshold) based on the actual eligible final project costs. Therefore, during the final project reconciliation (closeout), the project may be amended to reflect the reconciliation of actual eligible costs.
- When any individual item of equipment purchased with PA funding is no longer needed, or a residual inventory of unused supplies exceeding \$5,000 remains, the subrecipient must follow the disposition requirements in Title 2 Code of Federal Regulations (C.F.R.) § 200.313-314.
- The terms of the FEMA-State Agreement are incorporated by reference into this project under the Public Assistance award and the applicant must comply with all applicable laws, regulations, policy, and guidance. This includes, among others, the Robert T. Stafford Disaster Relief and Emergency Assistance Act; Title 44 of the Code of Federal Regulations; FEMA Policy No. 104-009-2, Public Assistance Program and Policy Guide; and other applicable FEMA policy and guidance.
- The DHS Standard Terms and Conditions in effect as of the declaration date of this emergency declarations or major disaster, as applicable, are incorporated by reference into this project under the Public Assistance grant, which flow down from the Recipient to subrecipients unless a particular term or condition indicates otherwise.
- The Uniform Administrative Requirements, Cost Principles, and Audit Requirements set forth at Title 2 Code of Federal Regulations (C.F.R.) Part 200 apply to this project award under the Public Assistance grant, which flow down from the Recipient to all subrecipients unless a particular section of 2 C.F.R. Part 200, the FEMA-State Agreement, or the terms and conditions of this project award indicate otherwise. See 2 C.F.R. §§ 200.101 and 110.
- The subrecipient must submit a written request through the Recipient to FEMA before it makes a change to the approved scope of work in this project. If the subrecipient commences work associated with a change before FEMA approves the change, it will jeopardize financial assistance for this project. See FEMA Policy No. 104-009-2, Public Assistance Program and Policy Guide.
- Pursuant to section 312 of the Stafford Act, 42 U.S.C. 5155, FEMA is prohibited from providing financial assistance to any entity that receives assistance from another program, insurance, or any other source for the same work. The subrecipient agrees to repay all duplicated assistance to FEMA if they receive assistance for the same work from another Federal agency, insurance, or any other source. If an subrecipient receives funding from another federal program for the same purpose, it must notify FEMA through the Recipient and return any duplicated funding.

Insurance

Additional Information

6/1/2022

GENERAL INFORMATION

Event: 4339DR-PR

Project: SP 105721

Category of Work: Cat G - Parks, Recreation, Misc

Applicant: Local Redevelopment Authority for Roosevelt Roads

Event Type: Hurricane / Maria

Cause of Loss: Flood

Incident Period: 9/17/2017 to 11/15/2017

Total Public Assistance Amount: \$1,610,106.45 (Repair Amount \$1,453,295.29+ HMP Amount \$156,811.16)

COMMERCIAL INSURANCE INFORMATION

Does the Applicant have a Commercial Policy: No

NUMBER OF DAMAGED INVENTORIES INCLUDED IN THIS PROJECT: (2)

Damaged Inventory (DI) #152543:

Other Facilities - Pier - Finger Pier & Dry Dock

Number of damaged locations included in this DI: (1)

Location Description or Physical Address: Roosevelt Roads Naval Base, Marina dr., Ceiba, Puerto Rico

GPS Coordinates: 18.22872, -65.60429

Cause of Loss: Flood

Project Amount: \$1,515,138.39 (Repairs Amount \$1,360,707.32 + HMP Amount \$154,431.07)

Prior Obtain and Maintain Requirement:

No prior insurance requirements were found for this facility.

Does the Applicant's Commercial Policy extend any coverage for this facility: No

Is the Facility located in a Special Flood Hazard Area (SFHA)? Yes

Zone: VE

FIRM Date: 11/18/2009

Is there a Mandatory National Flood Insurance Program (NFIP) Reduction being made to this project: No.

-

Reduction(s):

No reduction is being made to this facility. Not Insured. See; "Applicant Insurance Coverage Letter.pdf"

Obtain and Maintain Requirement:

No Obtain & Maintain Requirement is being mandated for Other Facilities - Pier - Finger Pier & Dry Dock because facility does not meet the definition of building, equipment, contents, or vehicle.

-

Damaged Inventory (DI) #152548:

Other Facilities - Helipad at Drydock

Number of damaged locations included in this DI: (1)

Location Description or Physical Address: Roosevelt Roads Naval Base, Marina dr., Ceiba, Puerto Rico

GPS Coordinates: 18.22763, -65.60494

Cause of Loss: Flood

Project Amount: \$94,968.06 (Repair Amount \$92,587.97 + HMP Amount \$2,380.09)

Prior Obtain and Maintain Requirement:

No prior insurance requirements were found for this facility.

Does the Applicant's Commercial Policy extend any coverage for this facility: No

Is the Facility located in a Special Flood Hazard Area (SFHA)? Yes

Zone: VE

FIRM Date: 11/18/2009

Is there a Mandatory National Flood Insurance Program (NFIP) Reduction being made to this project: No.

Reduction(s):

No reduction is being made to this facility. Not Insured. See; "*Applicant Insurance Coverage Letter.pdf*"

Obtain and Maintain Requirement:

No Obtain & Maintain Requirement is being mandated for Other Facilities - Helipad at Drydock because facility does not meet the definition of building, equipment, contents, or vehicle.

Insurance Proceeds Statement:

FEMA's Recovery Policy FP 206-086-1, Public Assistance Policy on Insurance (June 29, 2015), requires applicants to take reasonable efforts to recover insurance proceeds that it is entitled to receive from its insurers. FEMA will consider final insurance settlements that may be less than the insurance policy limits when an applicant demonstrates that it has taken reasonable efforts to recover insurance proceeds that it is entitled on a case-by-case basis.

Standard Insurance Comments

FEMA Policy 206-086-1

PART 2: Other Insurance-Related Provisions. (Sections 312 and 406(d) of the Stafford Act)

A. Duplication of Benefits. FEMA cannot provide assistance for disaster-related losses that duplicate benefits available to an applicant from another source, including insurance.

1. Before FEMA approves assistance for a property, an applicant must provide FEMA with information about any actual or anticipated insurance settlement or recovery it is entitled to for that property.
2. FEMA will reduce assistance to an applicant by the amount of its actual or anticipated insurance proceeds.
3. Applicants must take reasonable efforts to recover insurance proceeds that they are entitled to receive from their insurer(s).

Denisse Rosario Alvarado, PA Insurance Specialist

O&M Requirements

There are no Obtain and Maintain Requirements on **MLRA021 - Finger Pier & Dry Dock, Heli Pad.**

406 Mitigation

There is no additional mitigation information on **MLRA021 - Finger Pier & Dry Dock, Heli Pad.**

Environmental Historical Preservation

Is this project compliant with EHP laws, regulations, and executive orders?

No

EHP Conditions

- Any change to the approved scope of work will require re-evaluation for compliance with NEPA and other Laws and Executive Orders.
- This review does not address all federal, state and local requirements. Acceptance of federal funding requires recipient to comply with all federal, state and local laws. Failure to obtain all appropriate federal, state and local environmental permits and clearances may jeopardize funding.
- If ground disturbing activities occur during construction, applicant will monitor ground disturbance and if any potential archaeological resources are discovered, will immediately cease construction in that area and notify the State and FEMA.
- This project has been prepared to document disaster damages to an eligible facility, develop a reasonable scope of work to return the facility to its pre-disaster design, function, and capacity, and agree upon a fixed cost estimate. Therefore, EHP review of the project will not be complete at the time of obligation and the project must be versioned and resubmitted for EHP review. Work may not begin until EHP review of the project is complete and documented in a Record of Environmental Consideration (REC) that is attached in Grants Manager. Failure to version the project at the close of the A&E phase will result in a project that is not compliant with laws and executive orders, which may jeopardize funding, may affect eligibility, and could result in the project becoming ineligible for federal funding.

EHP Additional Info

There is no additional environmental historical preservation on **MLRA021 - Finger Pier & Dry Dock, Heli Pad.**

Final Reviews

Final Review

Reviewed By DIAZ-PABON, PEDRO J.

Reviewed On 06/13/2022 1:04 PM AST

Review Comments

To the best of my knowledge, this project is ready to continue the review process and comply with all policies & regulations. Project will move forward.

Recipient Review

Reviewed By Arguelles, Alejandro

Reviewed On 06/13/2022 3:38 PM AST

Review Comments

Recipient review limited to; spot-checking the DDD, SOW, HMP, costs and factors, codes/standards; review for post-award or closeout challenges; review of concerns communicated by the Subrecipient. The Subrecipient is responsible to fully review the project to ensure all aspects of project formulation are accurate and properly captured, including but not limited to: DDD; SOW necessary for repair/replacement of the disaster-caused damages; proper application of codes and standards including the consensus-based codes and standards, if applicable; 406 mitigation and BCA; cost estimate, or actual costs for work completed, necessary to complete the eligible scope of work, including all necessary costs such as engineering design services when appropriate; 50% repair versus replacement calculation including necessary back up documentation; insurance reductions based on actual or anticipated insurance proceeds; insurance obtain and maintain requirements; EHP reviews and conditions.

Project Signatures

Signed By Lizardi, Ramon

Signed On 06/13/2022