

# U.S. ARMY CORPS OF ENGINEERS CARIBBEAN DISTRICT

MISSION, VISION, AND CONTRACT OPPORTUNITIES

Date: 18 October 2024

Presented by:  
COL Chuck Decker, Commander  
Jose Bilbao, Program Manger  
Anibal Mercado-Soto, Project Engineer



U.S. ARMY



US Army Corps  
of Engineers®



Rio de La Plata, Dorado Bridge and ACBM Toe Key Construction



Rio Puerto Nuevo, La Chuleta Construction





# EVOLUTION OF A DISTRICT





# AREA OF OPERATION



## Civil Works

- Puerto Rico & USVI

## MIL/IIS

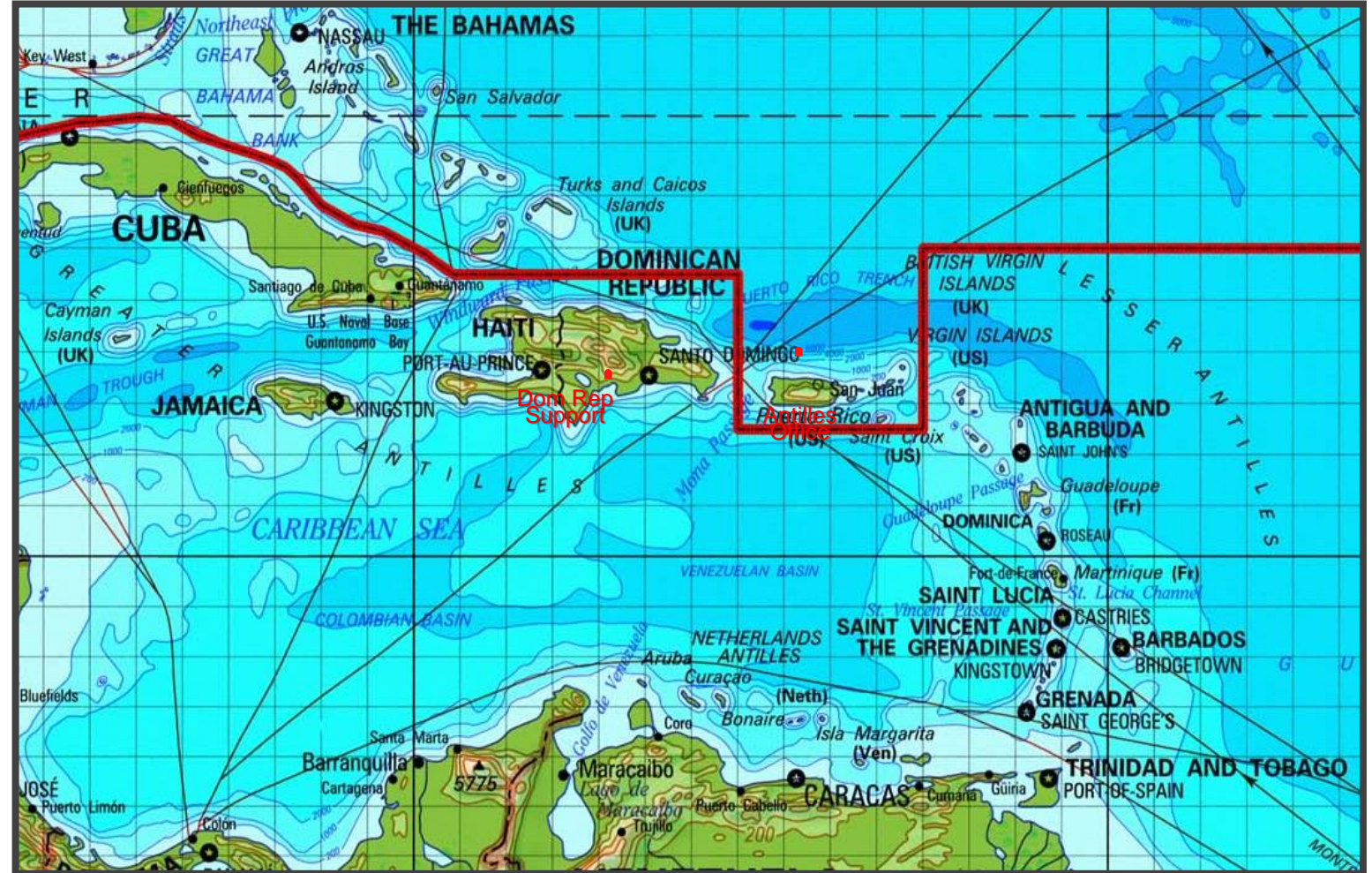
### Caribbean Basin Nations COCOM

Bahamas	N
Bermuda	N
Puerto Rico	N
U.S. Virgin Islands	N

Aruba	S
Antigua and Barbuda	S
Barbados	S
Cuba	S
Curacao	S
Dominica	S
Dominican Republic	S
Grenada	S
Haiti	S
Jamaica	S
Saint Kitts and Nevis	S
Saint Vincent & the Grenadines	S
Saint Lucia	S
Trinidad and Tobago	S

### Others in the AOR:

- CESAC – 81st RD, DVA Minors
- CELRL – USAR
- CESAS – DODEA, DVA Majors
- CESAJ – FUDS
- Other Districts Enterprise Assigned

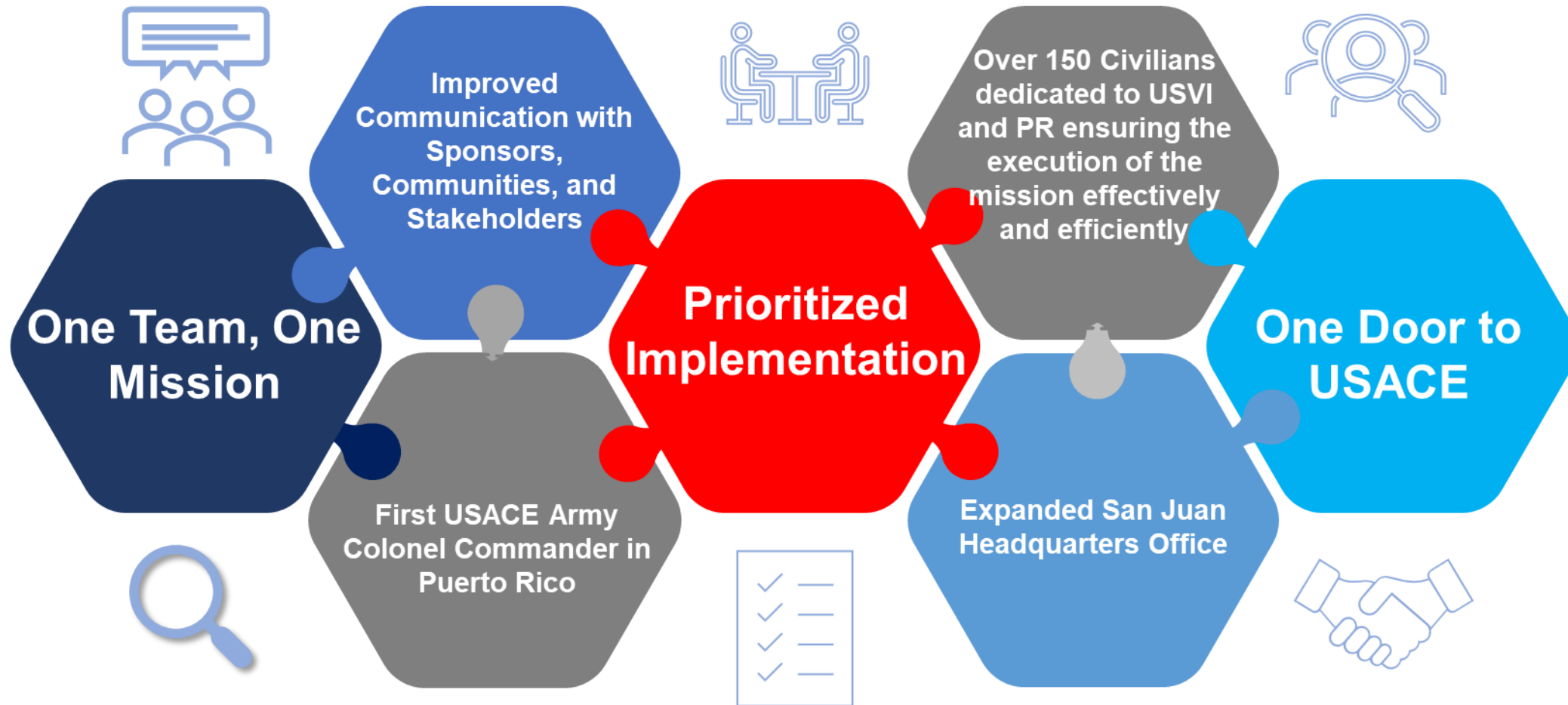




# CARIBBEAN DISTRICT



Provides additional leadership bandwidth and focus on priority missions in U.S. Virgin Islands, Puerto Rico, and Greater Antilles





## Civil Works Program

## Military Construction and Interagency and International Services(IIS) Program

### Small Projects Program

<b>Continuing Authorities Program (CAP)</b>
Rio Aibonito
Estate La Grange
<b>Floodplain Management Services</b>
Ponce
<b>Planning Assistance to States</b>
USVI Compound Flooding Hotspots
<b>Interagency Non-structural FPMS</b>
PR Watersheds
PR All Hazards
PR Dam Safety

### Investigations

Christiansted Harbor (WRDA 2020)
Charlotte Amalie Harbor (WRDA 2020)
Rio Nigua Validation Report & NEPA

### Construction

RPN Contract 2 Roosevelt Bridge – (FRM – BBA 2018)
San Juan Harbor Deepening (Navigation – BIL)
Rio de la Plata (Dorado Bridge) (FRM)

### Operations & Maintenance

San Juan Harbor O&M (Nav-BIL)
Inspection of Completed Works, PR & USVI
Project Condition Surveys, PR & USVI

### PED

Aquatic Ecosystem Restoration (AER)	Coastal Storm Risk Management (CSRM)
Cano Martin Pena	San Juan Metro (CSRM)
Flood Risk Management (FRM)	Deep Draft Navigation (DDN)
Rio de la Plata (FRM – BBA 2018)	San Juan Harbor
Rio Grande de Arecibo (FRM – BBA 2018)	
Rio Puerto Nuevo (FRM – BBA 2018)	
Rio Guanajibo (FRM – BBA 2018)	
Rio Nigua (FRM – BBA 2018)	
Rio Grande de Manati (FRM - DRSA)	
Rio Culebrinas (FRM - DRSA)	
Rio Guayanilla (FRM - BIL)	
Savan Gut (FRM - BIL)	
Turpentine Run (FRM - DRSA)	

### MILCON

FTB: Army Family Housing
PRARNG: Camp Santiago Barracks
PRARNG: Camp Santiago DFAC
PRARNG: Camp Santiago HQ
PRARNG: Fort Allen Readiness Center
VIARNG: STT Vehicle Maintenance Shop
VIARNG: STX Civil Support Facility
ERCIP: MCA - FY-20 Puerto Nuevo USAR Solar Array

### Installation Readiness

PRARNG: Camp Santiago Ammunition Supply Point
FTB: IR - Toro Creek Bridge Repairs

### Environmental

PRARNG: Fort Allen Storm Water Mitigation Design
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### IIS

Guajataca Dam
PREPA Support

Program Value > \$10 Billion




# CARIBBEAN DISTRICT PROJECTS OVERVIEW

## (STUDY, DESIGN, AND CONSTRUCTION)



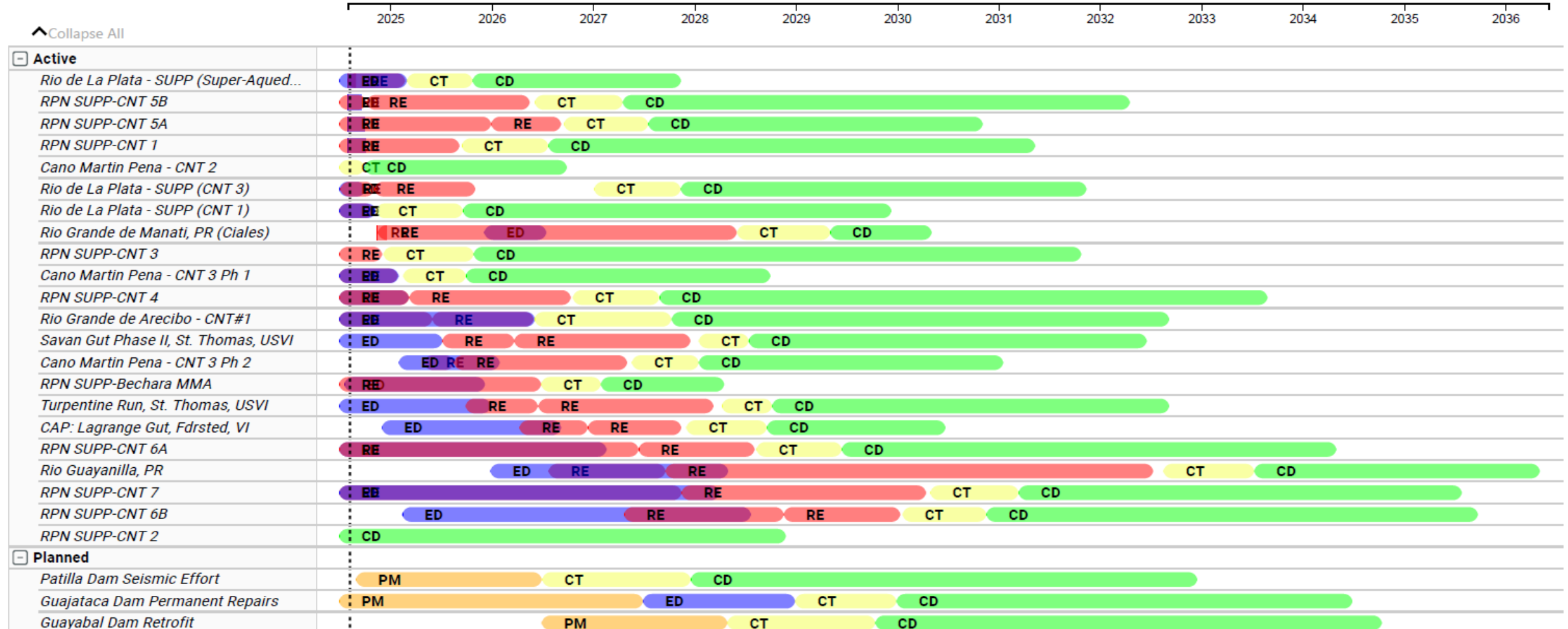
### U.S. Virgin Islands



-  Interagency and International Services
-  Military Construction (MILCON)
-  Flood Risk Management
-  Deep Draft Navigation
-  Aquatic Ecosystem Restoration
-  Coastal Storm Risk Management
-  Non-structural Interagency



# INTEGRATED SCHEDULE FOR CIVIL WORKS\*



\*Under evaluation/continued development 8



# UPCOMING CONTRACTS



**STRATEGIES TO EXECUTION:** A/E focus for design, staff augmentation, and new and improved acquisition strategies with a focus on expediting contract awards

## A/E and CMS Contracts

- RPN Contract 7 Design – Early 2025\*
- RPN Landscape Architect (Linear Parks) – Late 2025
- RPN (Cnt 6A) Geotechnical Surveys – Early 2025
- Rio Grande de Arecibo Contract 2 Design – Spring 2025
- Military & Civil Works Design IDIQ – 2025
- Rio Guayanilla Design – July 2026
- Rio Guanajibo Contract 1 Design – TBD
- Rio Nigua Design – TBD
- SAA Risk Reduction Contract – TBD
- Staff Augmentation Professional Services (short term)
- Staff Augmentation Professional Services (long term)

### **NOTE:**

PLA and Davis Bacon do not apply in the Caribbean

## Construction Contracts

### CIVIL WORKS

- Rio Puerto Nuevo Contract 3 – September 2025
- Caño Martin Peña Contract 3 / Phase 1 – September 2025
- Rio de la Plata Contract 1 – September 2025
- Rio de la Plata Super Aqueduct Relocation – Sept. 2025
- Proposed Design Build for Rio Puerto Nuevo - TBD
- Rio Puerto Nuevo Contract 1 – July 2026\*

### MILITARY

- Ft. Allen Readiness Center (Design Build) – June 2025
- St. Croix Civil Support Training Facility – July 2025
- St. Croix Vehicle Maintenance Shop – May 2025



# CONTRACT AWARDS NEXT 12 MONTHS



## Rio de La Plata

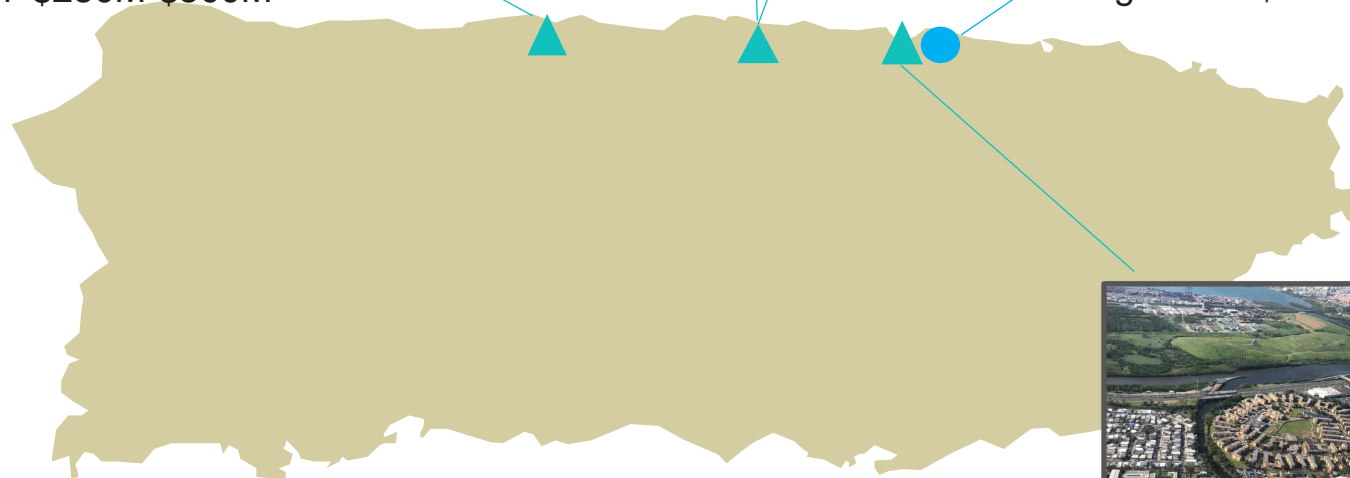
Contract 1 – Construction  
Super-Aqueduct Relocation – Construction  
Expected advertisement: Feb 2025  
Magnitude: \$250M-\$500M

## Rio Grande de Arecibo

Contract 2 – AE Design Task Order (MATOC)  
Expected award: Spring 2025  
Magnitude of construction \$250M-\$500M

## Caño Martin Peña


Contract 3 Phase 1 – Construction  
Expected advertisement: Mar 2025  
Magnitude: \$100M-\$250M



## Rio Puerto Nuevo

Contract 3 – Construction  
Expected advertisement: Mar 2025  
Magnitude: \$250M-\$500M

 Flood Risk Management

 Aquatic Ecosystem Restoration



# PARTNER WITH US!

Learn more about upcoming opportunities with the Caribbean District:

- SAME Lunch and Learn: San Juan Field Chapter, Puerto Rico **18 October 2024**
- SAME Small Business Conference: National, Louisiana **21 November 2024**
- SAME Industry Days: Jacksonville Post, Florida: **09-11 December 2024**
- **Caribbean District Industry Days (\$600M – \$1.25B):**
  - Rio de La Plata Super Aqueduct and Cano Martin Pena Contract 3 / Phase 1, San Juan, Puerto Rico **04 December 2024**
  - Rio de La Plata Contract 1 and Rio Puerto Nuevo Contract 3, San Juan, Puerto Rico **05 December 2024**

**Website:** [Caribbean District \(army.mil\)](https://www.sad.usace.army.mil/Caribbean-District/) <https://www.sad.usace.army.mil/Caribbean-District/>

Follow us on: LinkedIn, Facebook, and Instagram

[www.SAM.gov](http://www.SAM.gov) DODAC W51DQV

**Point of Contact:** Mariano Torres  
Chief, Office of Small Business Programs

**Tel:** (787) 220-0225

**Email:** [Mariano.torresfeliciano@usace.army.mil](mailto:Mariano.torresfeliciano@usace.army.mil)



# Río Puerto Nuevo Flood Risk Management Project - Overview



## COMPLETED (COST SHARED)

### CONTRACTS 1, 1A, 2A/AR, 2AA, 2C1, 2D WALLS

STATUS: 2D Walls, last completed, was May 2022

AMOUNT: \$470M

- Kennedy Bridge seismic retrofit; 36-inch water line
- First 1.3 miles of channel improvements
- Quebrada Margarita channel excavation and confluence wall; lower Puerto Nuevo channel dredging
- Bechara Channel secant pile wall box culvert; 90-inch sewer line modification; open channel work
- De Diego Expressway Bridge abutments; east and west pier drill shaft reinforcement
- Quebrada Margarita Stilling Basin
- Construction of 350-foot left channel wall and 750-foot right channel wall at channel confluence.

### CONTRACT - LA CHULETA

- Upland Material Management Area (future capacity of ~350,000 cubic yards of material)

## ONGOING (SUPPLEMENTAL) CONSTRUCTION

### CONTRACT 2 | ROOSEVELT BRIDGE

- Roosevelt Avenue Bridge replacement



## REMAINING (SUPPLEMENTAL) CONSTRUCTION

### CONTRACT 1 | UPPER MARGARITA CHANNEL

- Sewer line relocation
- Construction of .63 miles of channel improvements at Upper Quebrada Margarita

### CONTRACT 3 | MAIN CHANNEL (RIO PIEDRAS)

- Channel walls
- 1.1 miles of Main Channel improvements

### CONTRACT 4 | LAS AMERICAS BRIDGES

- Channel, Stilling Basin and Bridge Replacements
  - ▶ 4A-1: Las Americas Expressway Bridge
  - ▶ 4A-2: Piñero Avenue Bridge East
  - ▶ 4A-3: Northeast Access Ramp Bridge
  - ▶ 4A-4: Southeast Access Ramp Bridge

### CONTRACT 5 | NOTRE DAME & W. PIÑERO BRIDGE

- 5A: Notre Dame Bridge replacement
- 5B: Piñero Avenue Bridge West replacement; Quebrada Josefina downstream to Río Piedras

### CONTRACT 6A/6B | MAIN CHANNEL / BUENA VISTA

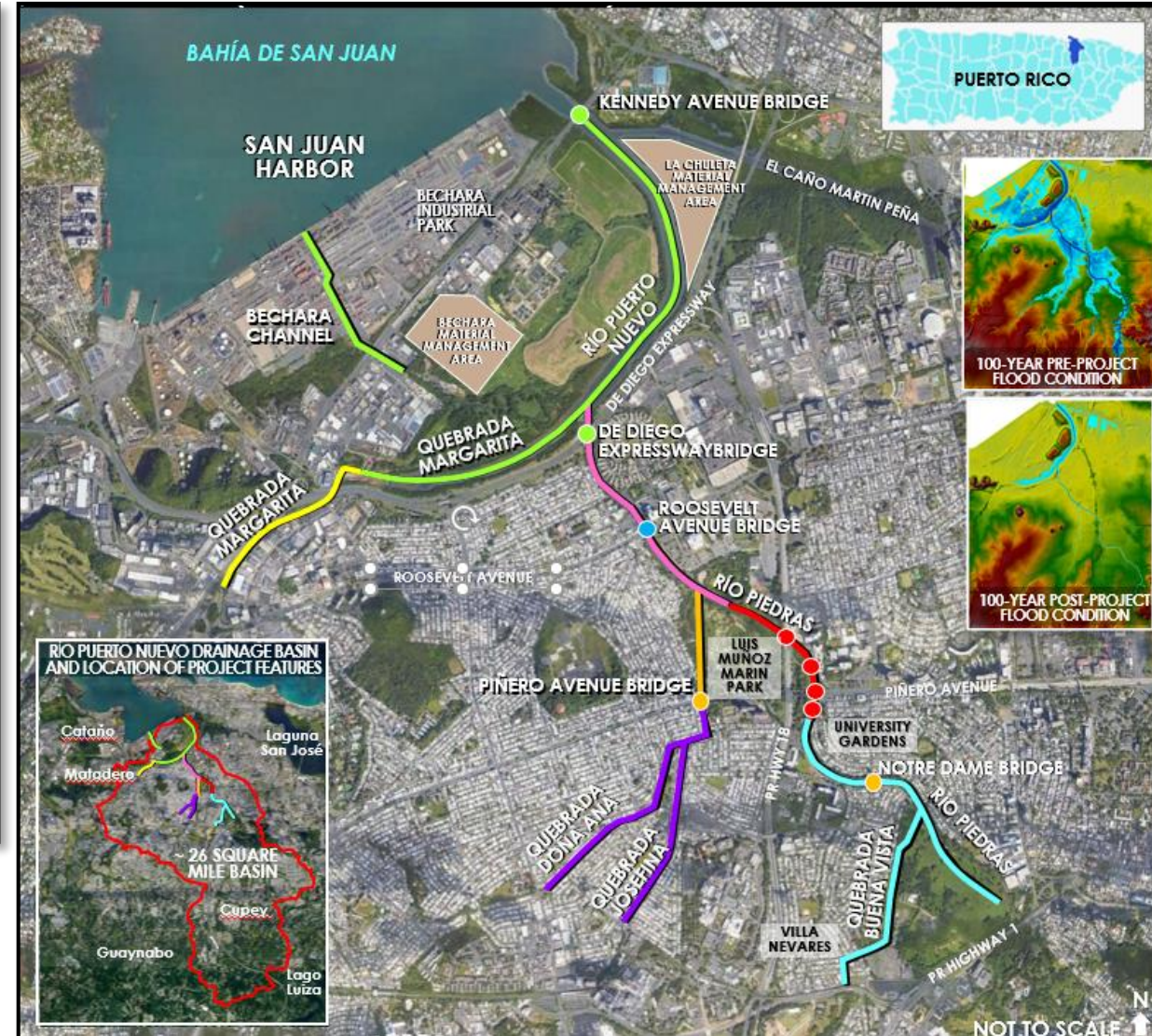
- 1.75 miles of Río Piedras channel improvements
- 4 bridges (2 new; 2 replacements)
- .80 miles channel diversion at Quebrada Buena Vista

### CONTRACT 7 | JOSEFINA & DOÑA ANA CHANNEL

- 10 bridge replacements
- 5000 LF. of Quebrada Josefina and 4400 LF. of Quebrada Doña channel improvement

### CONTRACT - BECHARA

- Upland Material Management Area (future capacity of ~600,000 cubic yards of material)

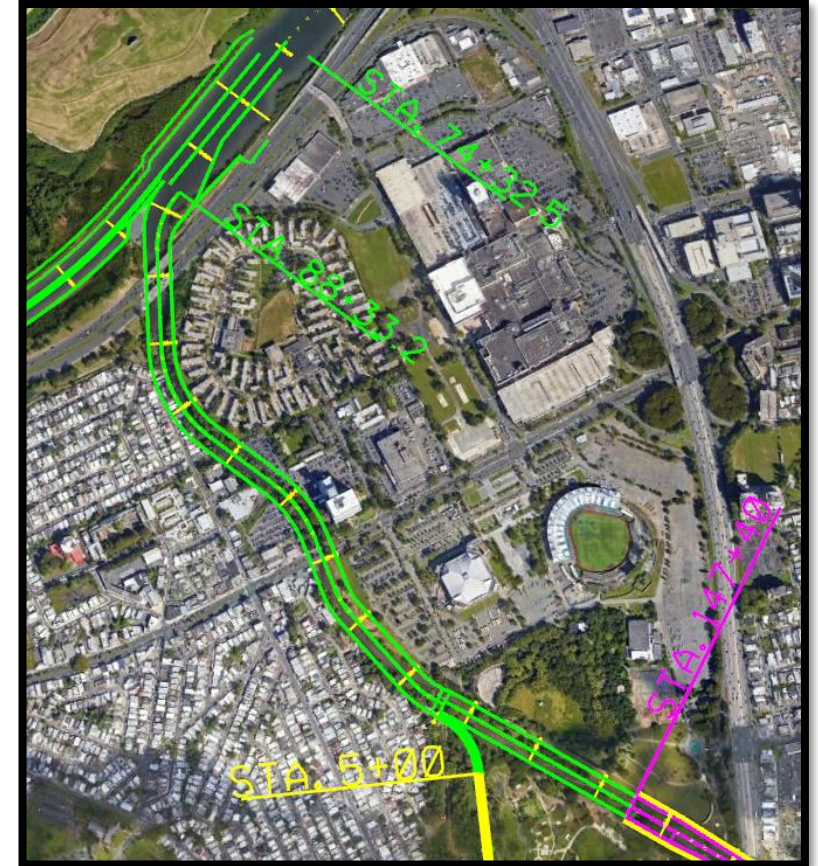




# RPN Supplemental Contract 3 - Río Piedras Main Channel



- Channel Walls
- Demonstration Wall
- Sewer Siphon
- Utility Bridge
- Main Channel Transition
- Josefina Channel Transition
- Power Line Relocation
- Dredging and Excavation
- Stormwater Penetrations
- Main channel walls, ~2 Miles of Tangent Piles
- Period of Performance – 6 Years



SCHEDULE	
Advertisement	March 14, 2025
<b>Award</b>	<b>SEPT 30, 2025</b>

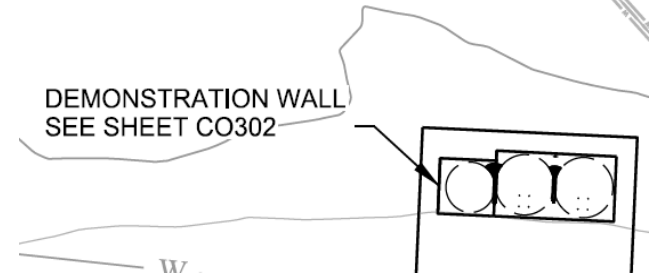
**MAGNITUDE OF CONSTRUCTION**  
**Between \$250,000,000 and \$500,000,000**



# RPN Supplemental Contract 3 - Río Piedras Main Channel



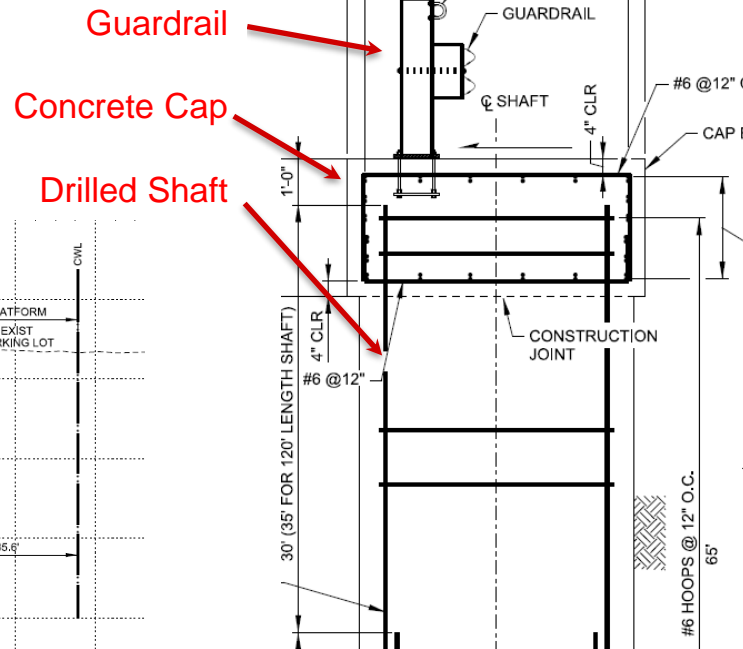
- 1,700 six-foot diameter concrete drill shaft piles (~100 feet deep)
- 200,000 cy of concrete
- 46,000 tons of reinforcing steel
- 600,000 cy of excavated material to be disposed
- 25,000 cy of suitable fill
- 8,000 tons of steel sheet pile



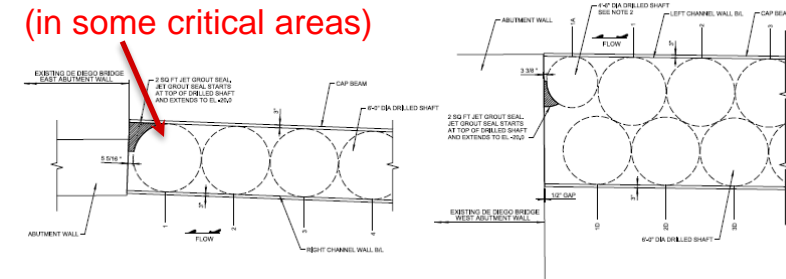
Demonstration Wall per Crew



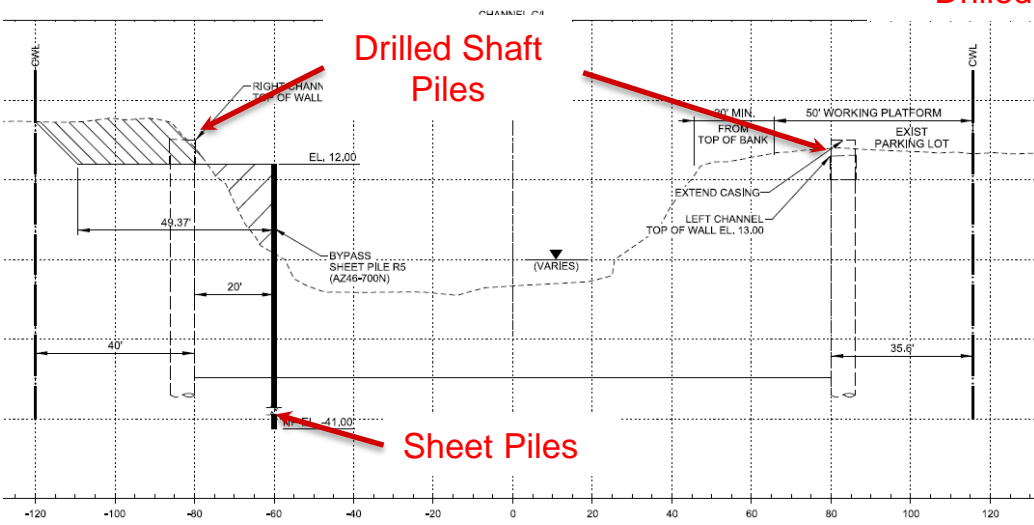
Drilled Shaft Piles, Heavily Reinforced



Jet Grout (in some critical areas)



Single and Double Rows of Tangent Piles

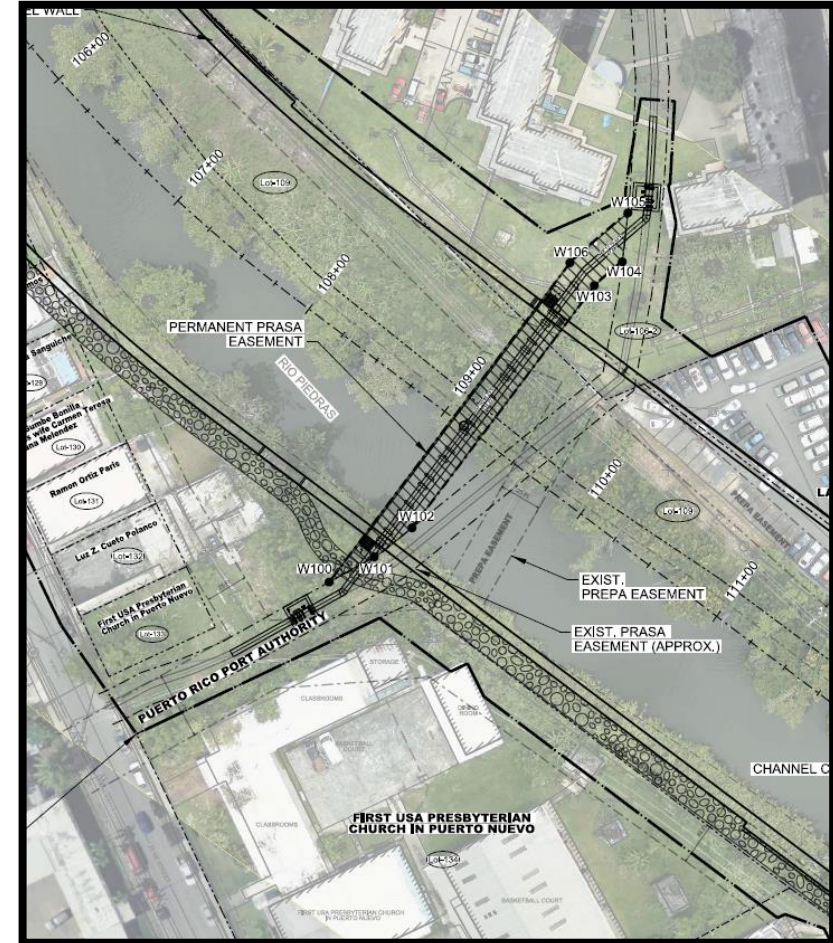
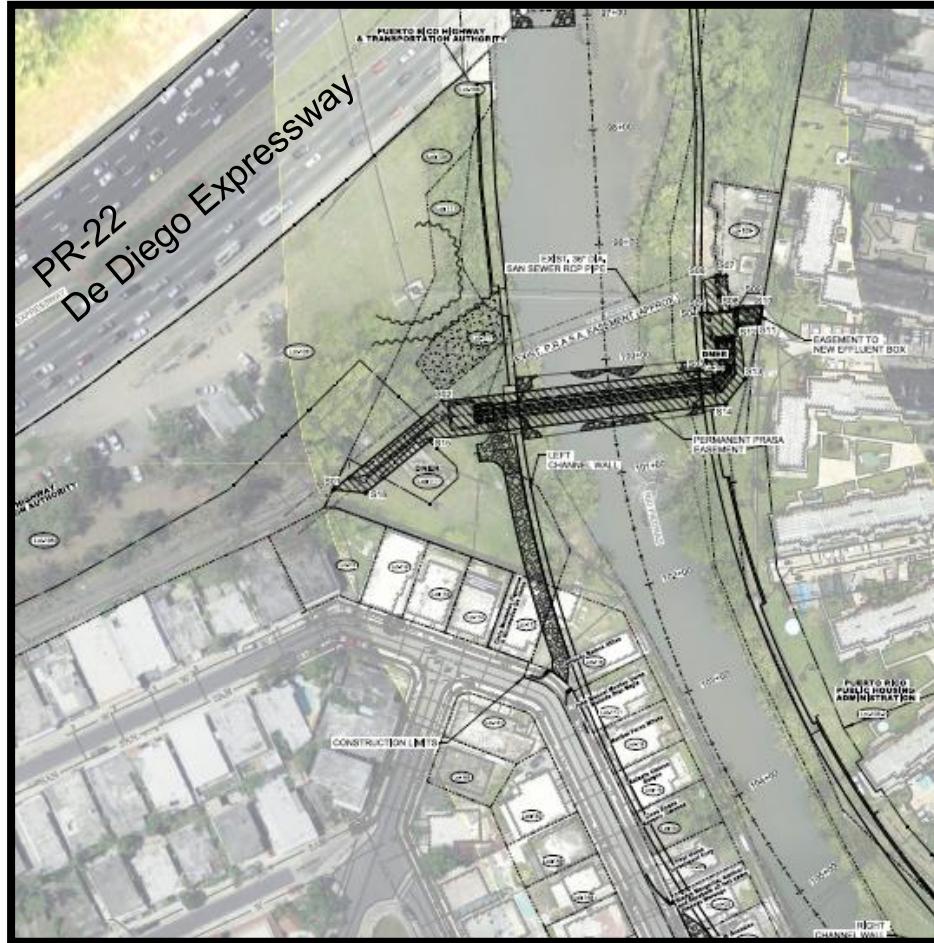




# RPN Supplemental Contract 3 - Río Piedras Main Channel



## Sewer Siphon and Utility Bridge with 48 Inch Diameter Watermain



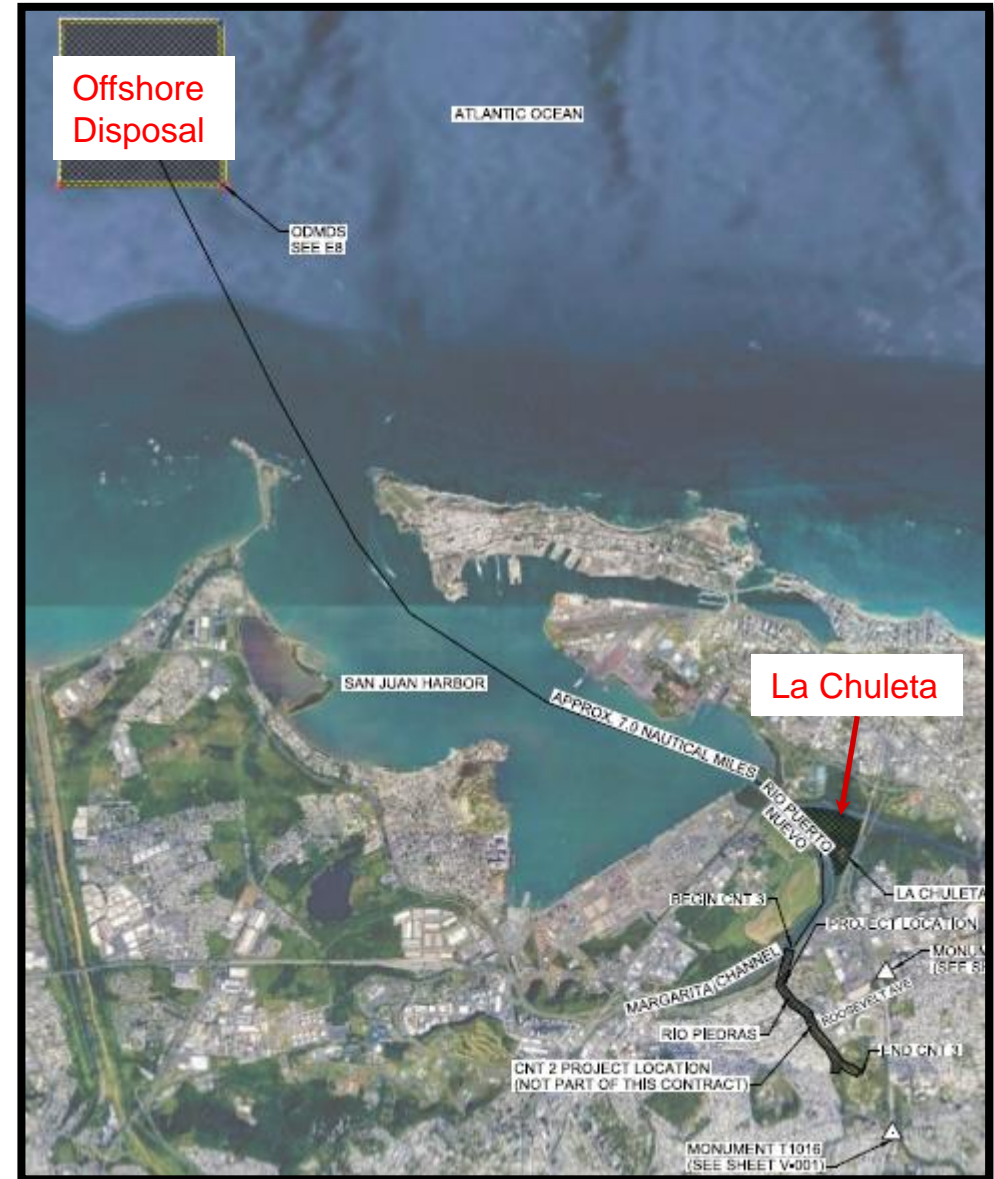


# RPN Supplemental Contract 3 - Río Piedras Main Channel



## Material Management Areas

- La Chuleta for bank excavation
- Offshore for material under the mean high-water line





# CAÑO MARTÍN PEÑA - OVERVIEW



## PROJECT IMPLEMENTATION, FEATURES, AND MAP

### CONTRACTS

#### CONTRACT 1 | VEGETATION REMOVAL

**STATUS:** Completed June 2023, \$3.4M, 36 acres vegetation removed.

#### SOLID WASTE REMOVAL CONTRACT

**STATUS:** Completed Oct 2023, \$2.3M, 15K Tons removed + Modification for additional 3.8K Tons (\$600K).

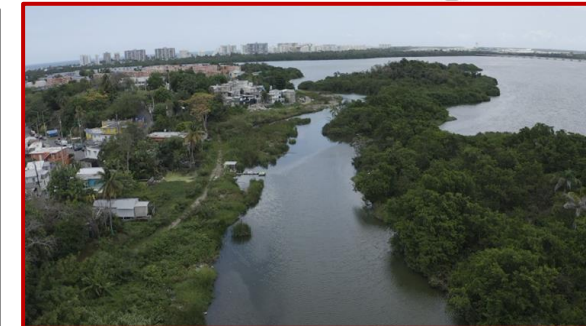
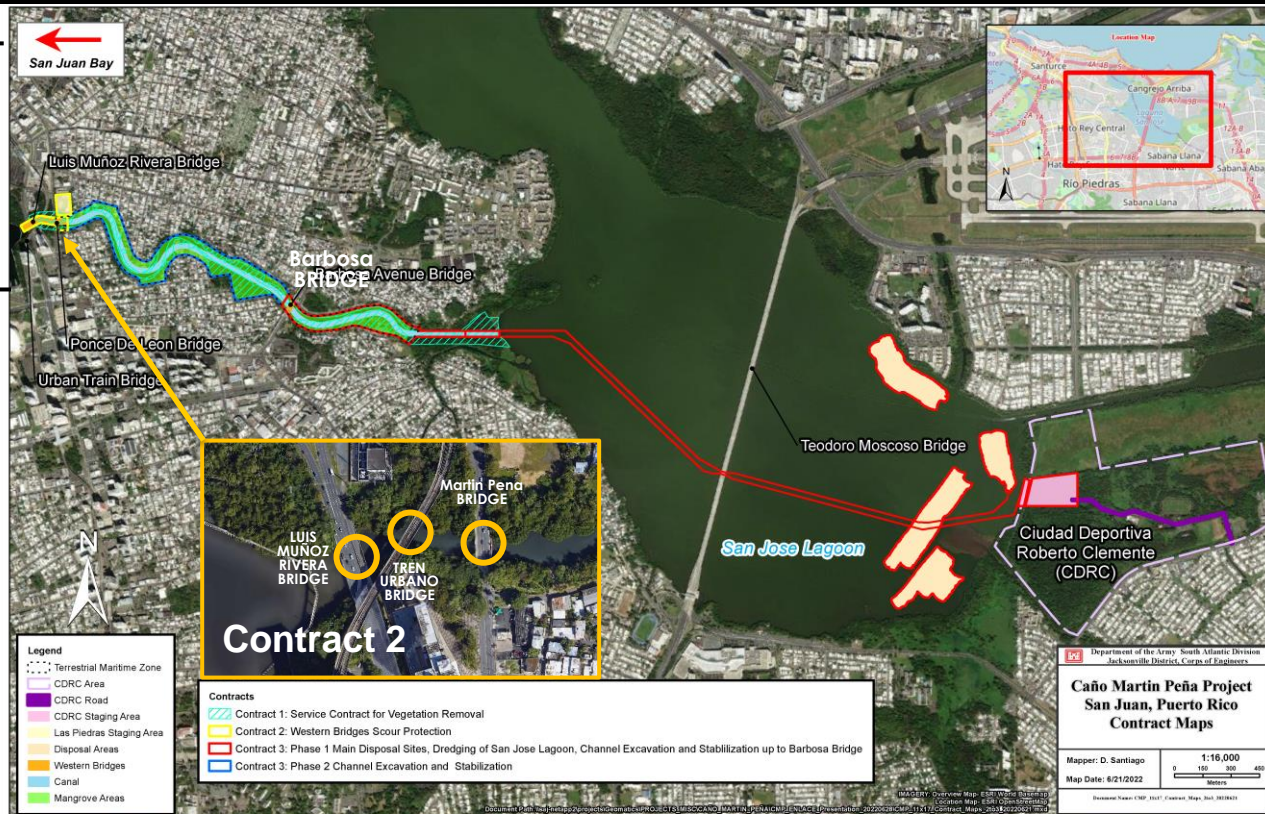
#### CONTRACT 2 | WESTERN BRIDGES SCOUR PROTECTION.

Martín Peña, Tren Urbano, and Luis Muñoz Rivera

**STATUS:** Awarded Sep 2024, \$14.7M. Expect completion in Oct 2026

#### SCOPE

- Excavation of ~ 25K CY of material from the western end of the channel
- Construction of a 115-foot-wide by 6.5-foot-deep channel located at western bridges.
- Installation of riprap at the channel bottom and the side slopes to prevent scour
- Steel sheet pile walls will be installed at the eastern end



### Contract 3: Phase 1

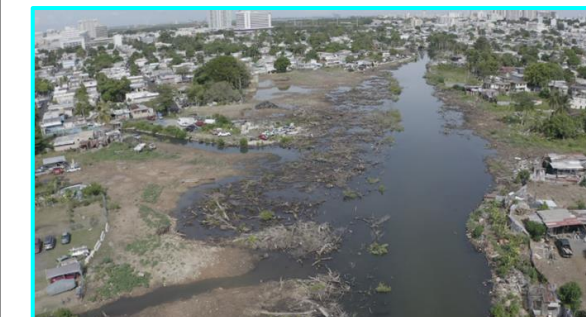


#### CONTRACT 3 | CHANNEL EXCAVATION / STABILIZATION

**STATUS:** Phase 1 & Phase 2 Contracts award anticipated in Sep 2025 and Jan 2028, respectively

#### SCOPE

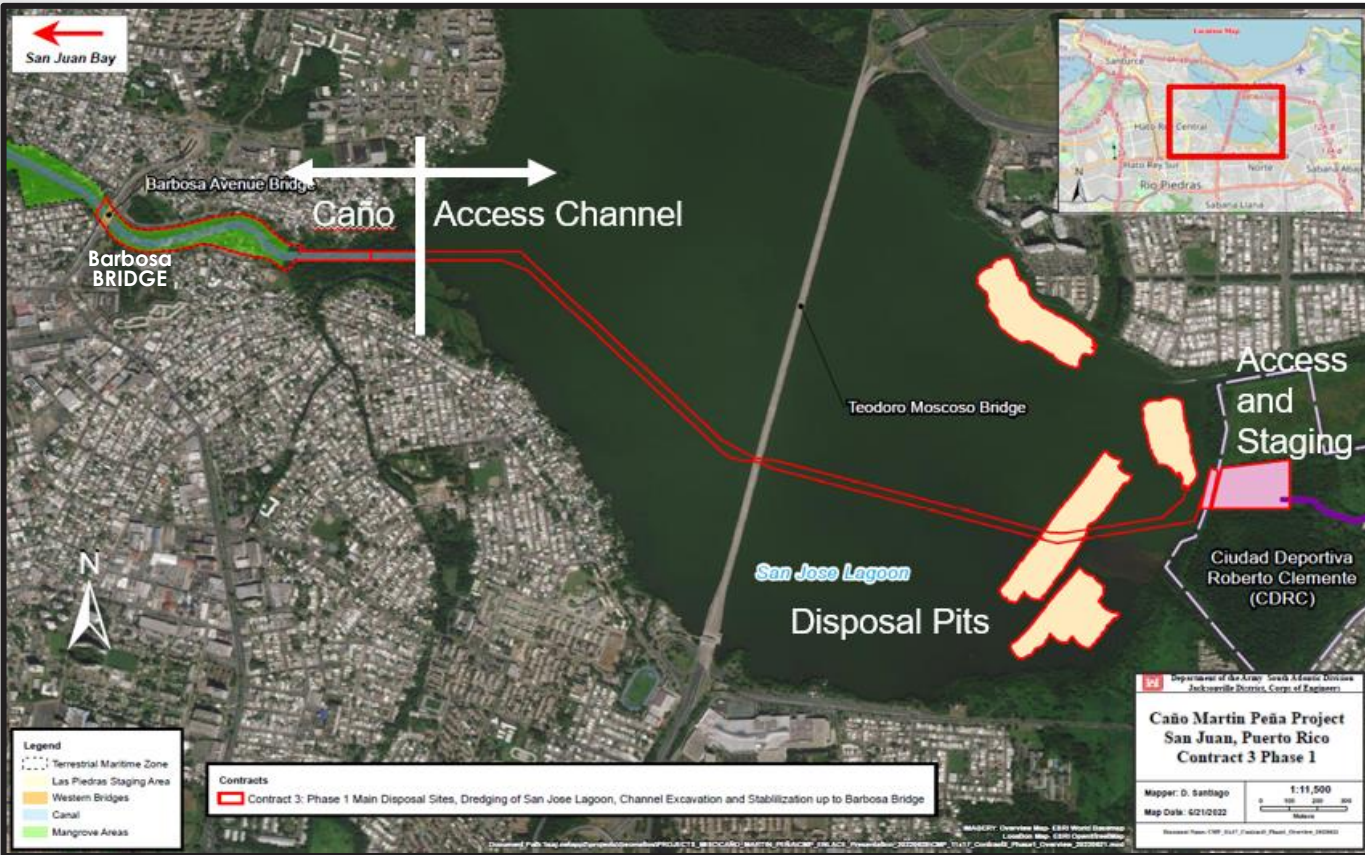
- 1.8 miles channel dredging
- 2 miles access channel dredging from staging area to eastern end of CMP
- Bank stabilization to include sheet pile
- Barbosa Bridge scour protection
- ~ 35 acres Mangrove/wetland restoration for entire channel
- Recreation features



### Contract 3: Phase 2



# CMP - CONTRACT 3 / PHASE 1



- **Channel Improvement: From Barbosa Bridge to to eastern end of CMP**
  - ✓ Dredging of 1350 meters long channel (30.5 x 3.1 m)
  - ✓ Steel sheet pile walls with concrete cap
  - ✓ Scour protection for Barbosa Bridge (riprap)
- **Develop Staging and Access Area (CDRC)**
  - ✓ Material Management Area
- **Prepare Disposal Pits**
  - ✓ To receive dredged material
- **Access Channel Construction: Provide access from staging/access area to eastern end of Caño Martín Peña**
  - ✓ About 3,000 meters long
  - ✓ Moscoso Bridge will be protected

## CNT 3 PHASE 1 SCHEDULE

Final Design	JAN 28, 2025
Advertisement	MAR 29, 2025
<b>Award Contract</b>	<b>SEPT 30, 2025</b>

## MAGNITUDE OF CONSTRUCTION

Between \$100,000,000 and \$250,000,000

\* Industry Day in December 2024



# RIO DE LA PLATA - OVERVIEW

## PROJECT FEATURES AND IMPLEMENTATION PLAN

**CONTRACT 1A**  
*Completed 2015*

**DORADO BRIDGE CHANNEL WIDENING AND SCOUR PROTECTION**  
• Anticipated Completion: 2024

**ARTICULATED CONCRETE BLOCK MAT AND TOE KEY**  
• Substantial Completion: 2023

**SUPPLEMENTAL CONTRACT 1**  
Features  
• 4 concrete culverts  
• 1.6 miles of river channel improvements  
• 2.9 miles of earthen levees  
• 30 acres of wetland mitigation

**SUPPLEMENTAL CONTRACT 3**  
Features:  
• 1.4 miles of river channel improvements  
• 1.3 miles of earthen levees

**SUPPLEMENTAL CONTRACT: NORTH COAST SUPERAQUEDUCT RELOCATION**  
Features:  
• 1,000-foot relocation of a 72-inch potable water line, which supplies water to the northern municipalities





# RDLP - CONTRACT 1

## MAIN PROJECT FEATURES:

- Approx. 1,780,000 m<sup>3</sup> channel excavation
- Approx. 772,000 m<sup>3</sup> levee fill placement
- Approx. 160,000 m<sup>3</sup> scour protection stone placement
- 4 concrete culvert structures (2 - west levee, 2 - east levee)
- Construction for mitigation of Wetlands

## ADDITIONAL PROJECT FEATURES:

- Maintenance roads
- Drainage ditches
- Utility relocations
- Material Management Areas
- Demolition of abandoned structures

### CNT 1 SCHEDULE

Advertisement	FEB 27, 2025
<b>Award</b>	<b>SEPT 30, 2025</b>

### MAGNITUDE OF CONSTRUCTION

**Between \$250,000,000 and \$500,000,000**





# RDLP - NORTH COAST SUPER AQUEDUCT RELOCATION

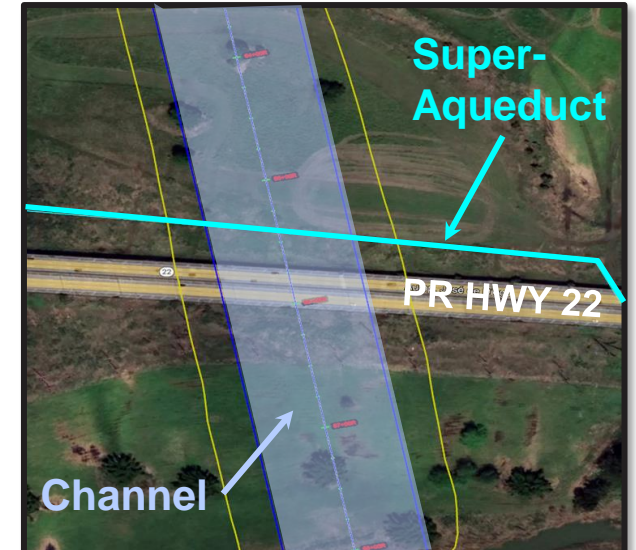


## GENERAL INFORMATION:

- Relocate ~1,000 ft of 72-inch diameter **potable** water line below new channel
- Existing water line is Prestressed Concrete Cylinder Pipe (PCCP)
- Must remain operational during relocation requiring:
  - Wet tapping
  - Temporary bypass

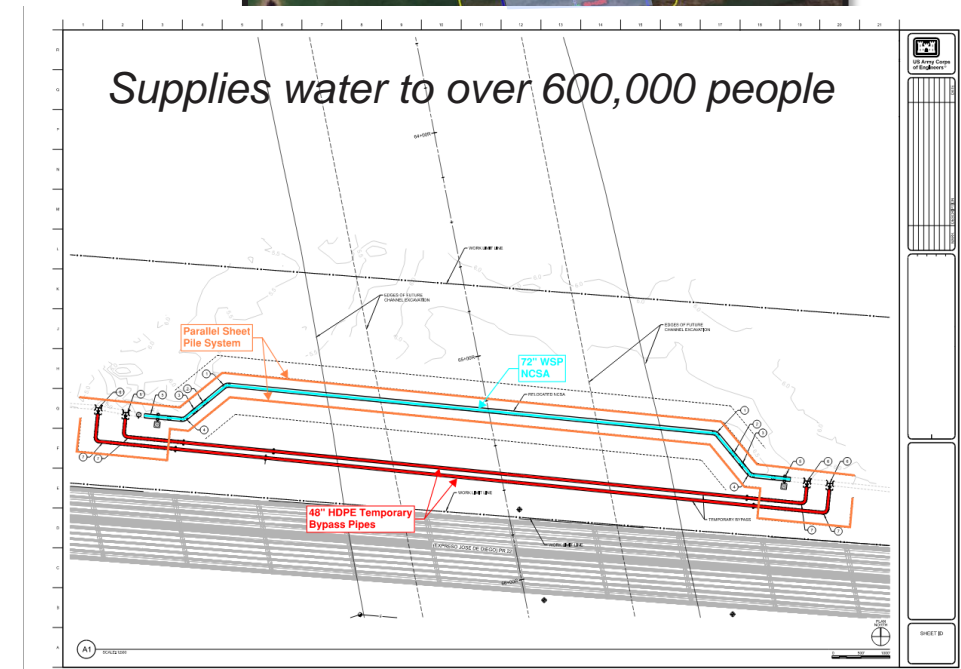
## RELOCATION PROJECT FEATURES:

- 72-inch diameter Welded Steel Pipe (WSP)
- Parallel Sheet Pile System
- Two, 48-inch diameter HDPE temporary Bypass pipes



SCHEDULE	
Advertisement	MAY 8, 2025
Award	SEPT 30, 2025

MAGNITUDE OF CONSTRUCTION
Between \$25,000,000 and \$100,000,000



# SAN JUAN HARBOR



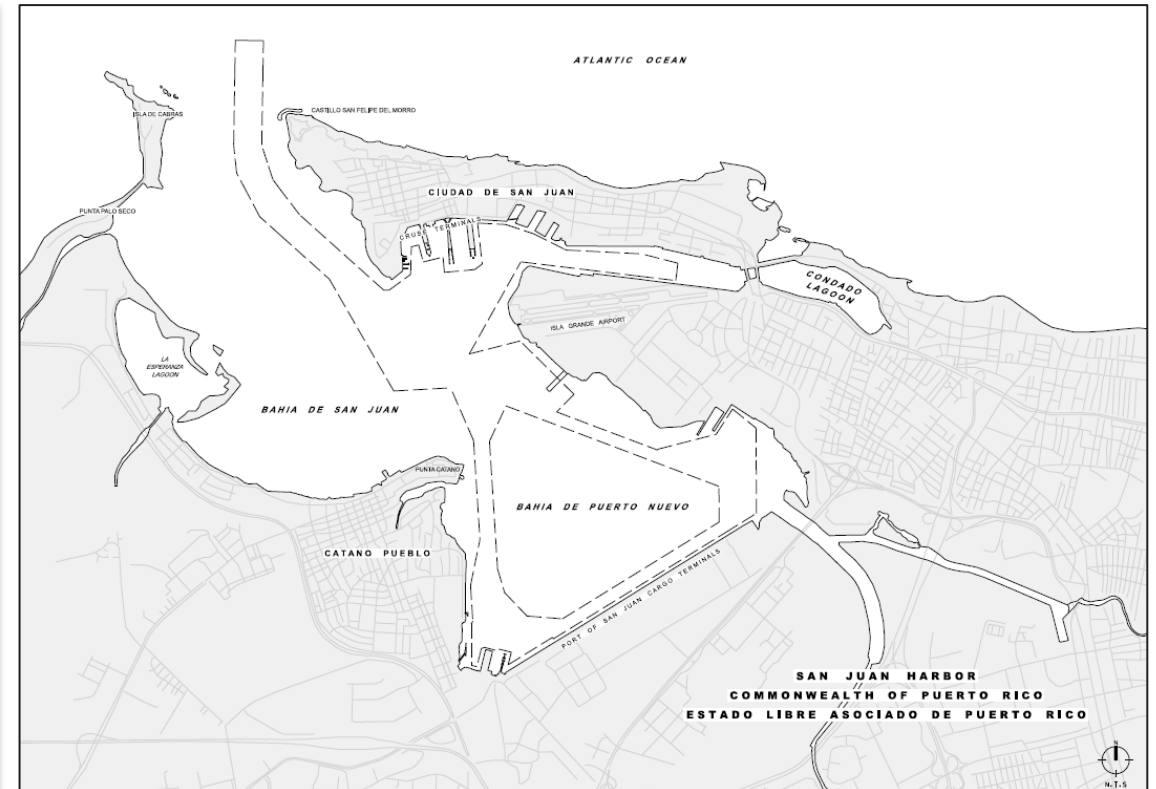


# SAN JUAN HARBOR SCOPE OF WORK



The project work consists of **construction and maintenance dredging** in designated areas of deepening and widening of the Federal navigation channel and Puerto Rico Ports Authority (PRPA) berthing areas.

Additional Work includes **environmental species monitoring, turbidity monitoring and vibration monitoring.**





# SAN JUAN HARBOR SCOPE OF WORK



The project work include the deepening of the followings:

- **Cut-6 (entrance channel)** to a required **depth of 46 ft.**
- **Anegado Channel** to a required **depth of 45 ft.**
- **Army Terminal Channel**, and the Army Terminal Turning Basin to a required **depth of 45 ft.**
- **Federal channels adjacent to the cruise ship terminals**, to include the San Antonio Approach Channel, the San Antonio Channel, the Cruise Ship Basin East, and the Cruise Ship Basin West to a required **depth of 36 ft.**
  
- The project **widening involves constructing 50 ft of new channel** on both sides of Army Terminal Channel to increase the total channel width by 100 ft, **from 350 ft to 450 ft.**
  
- The **Ocean Dredge Material Disposal Site (ODMDS)** is located approximately **2.3 nautical miles** from the northern end of Cut-1.



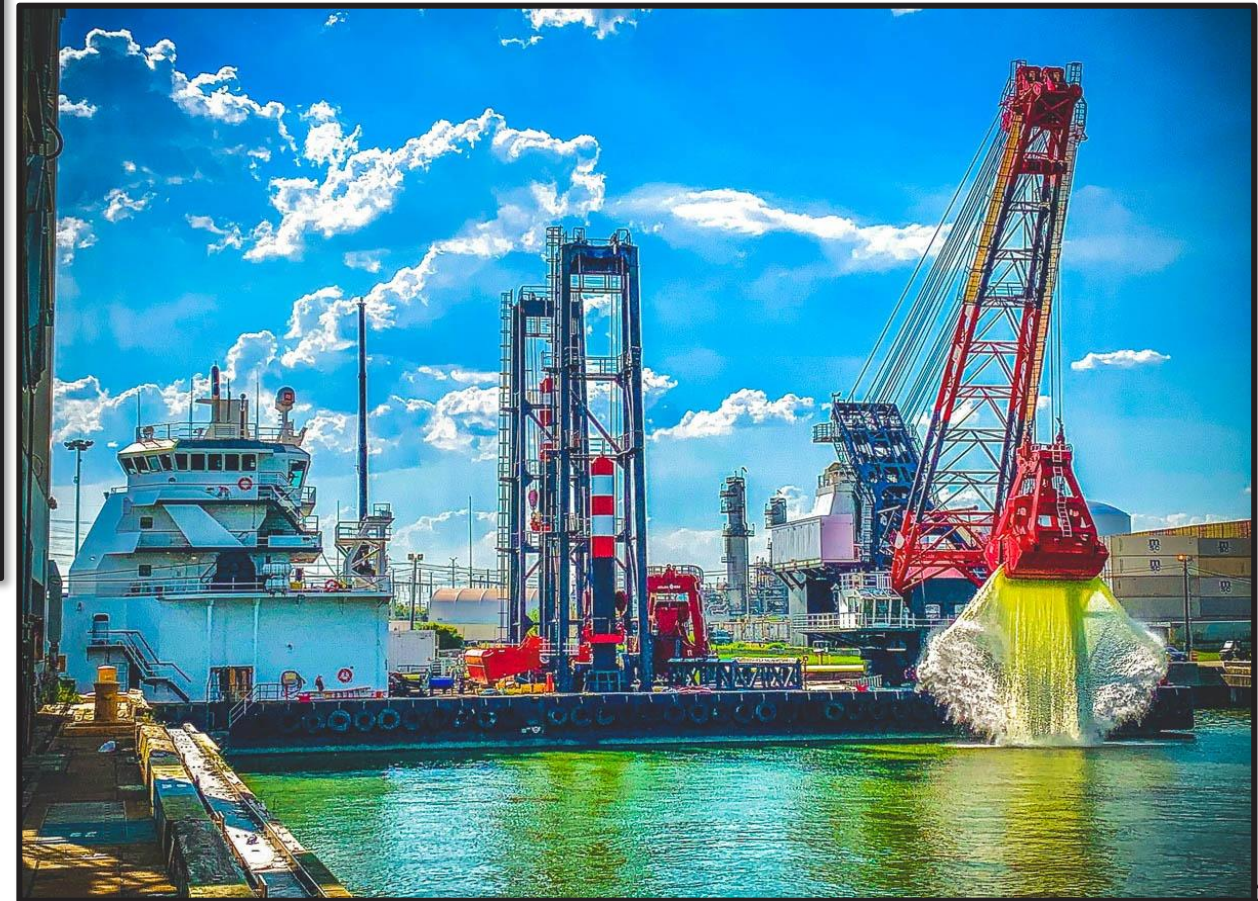
# CONTRACTOR EQUIPMENT



Source: [curtinmaritime.com/](http://curtinmaritime.com/)

## Dredge: Clamshell

- Hybrid-Powered Dredge
- Largest Clamshell in North America
- Capable of fully automated dredging
- Capable of an all-electric operation (shore-power connection)





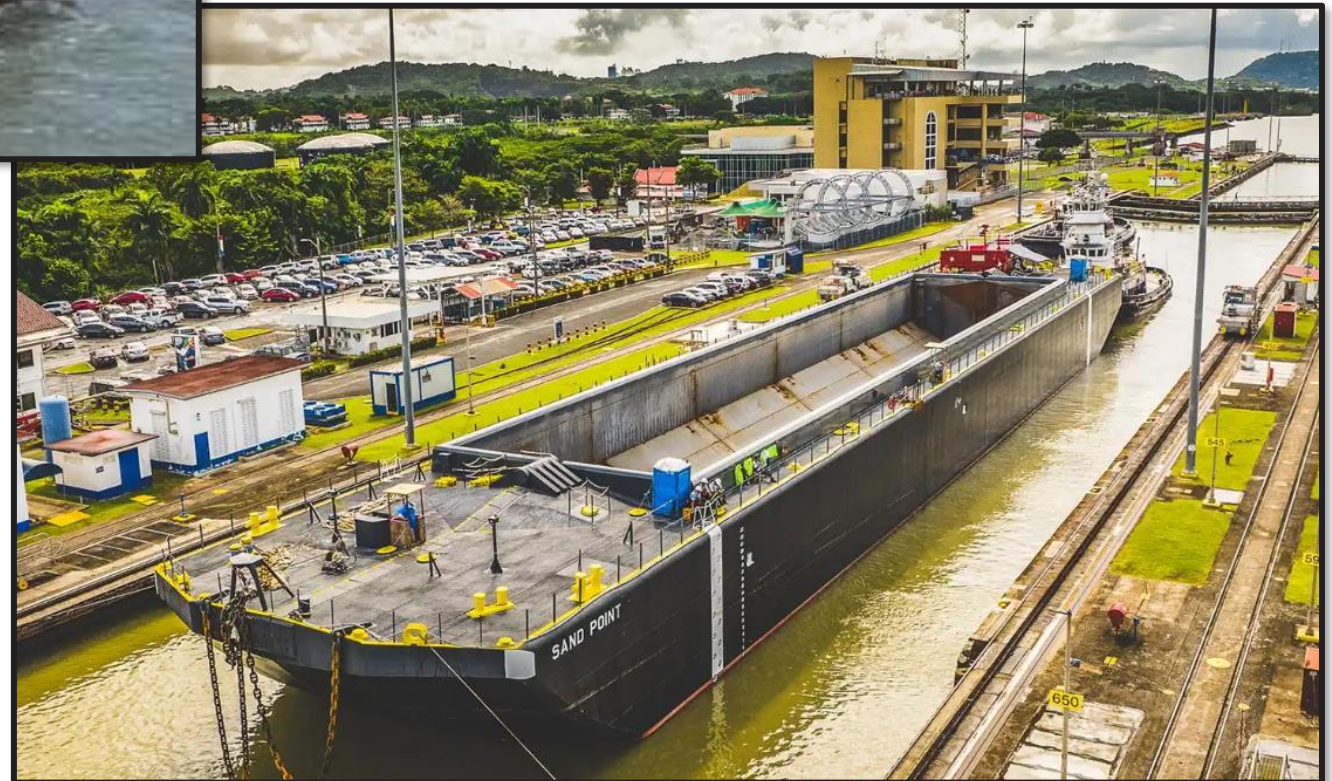
# CONTRACTOR EQUIPMENT



- SCOW/Dump Barge
- Sediment Disposal
  - 6000 CY

## Support Barge

- Supplies Transportation
- Offices
- Crane and work-area





# SJH CONSTRUCTION PROGRESS UPDATE



**Prime Contractor:** Curtin Maritime Corp.

**Original Contract Amount:** \$54,204,676.20

**Original Contract Duration:** 390 CDs

**Current Contract Duration:** 502 CDs

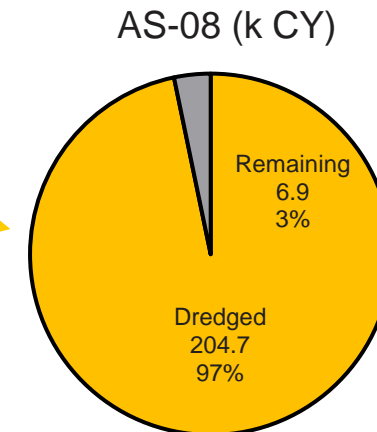
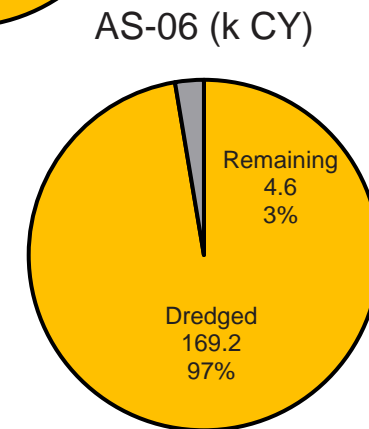
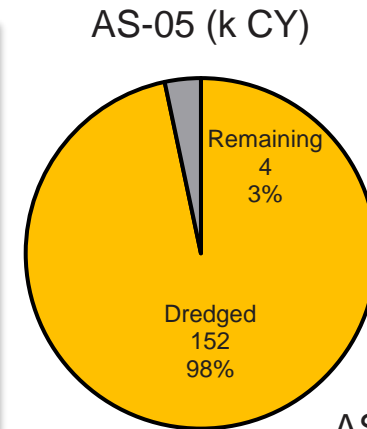
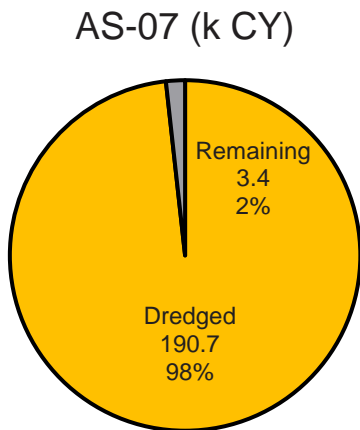
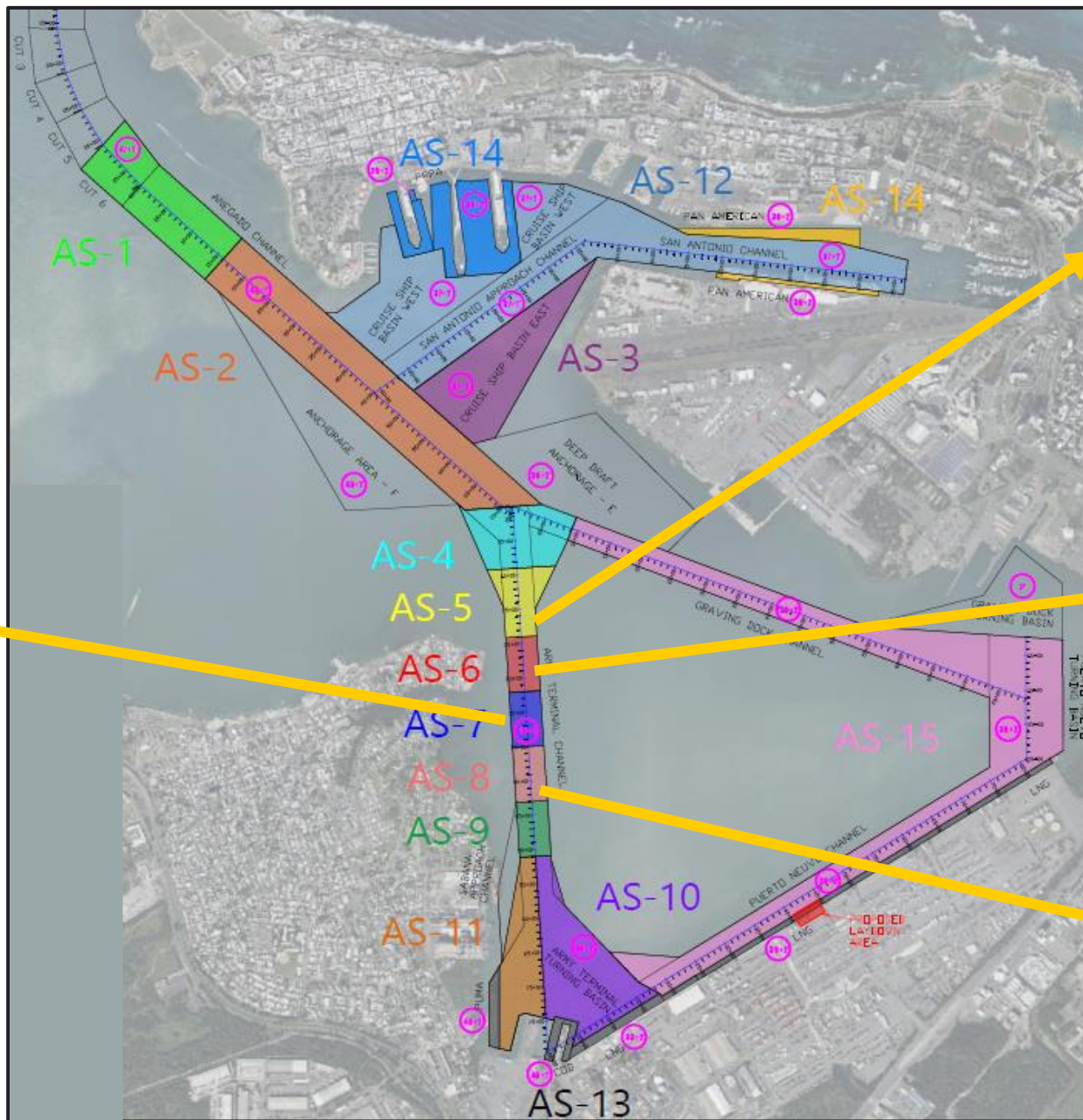
As of Oct 14, 2024.

- Current Contract Amount:
  - \$54,999,550.19 (1% cost growth)
- Current Contract Durations:
  - 36 days remain until final completion on 23 Nov Oct 2024
- Percent Complete:
  - 88% Material Dredged
  - 62% Paid
- Projected Completion Date:
  - 23 November 2024





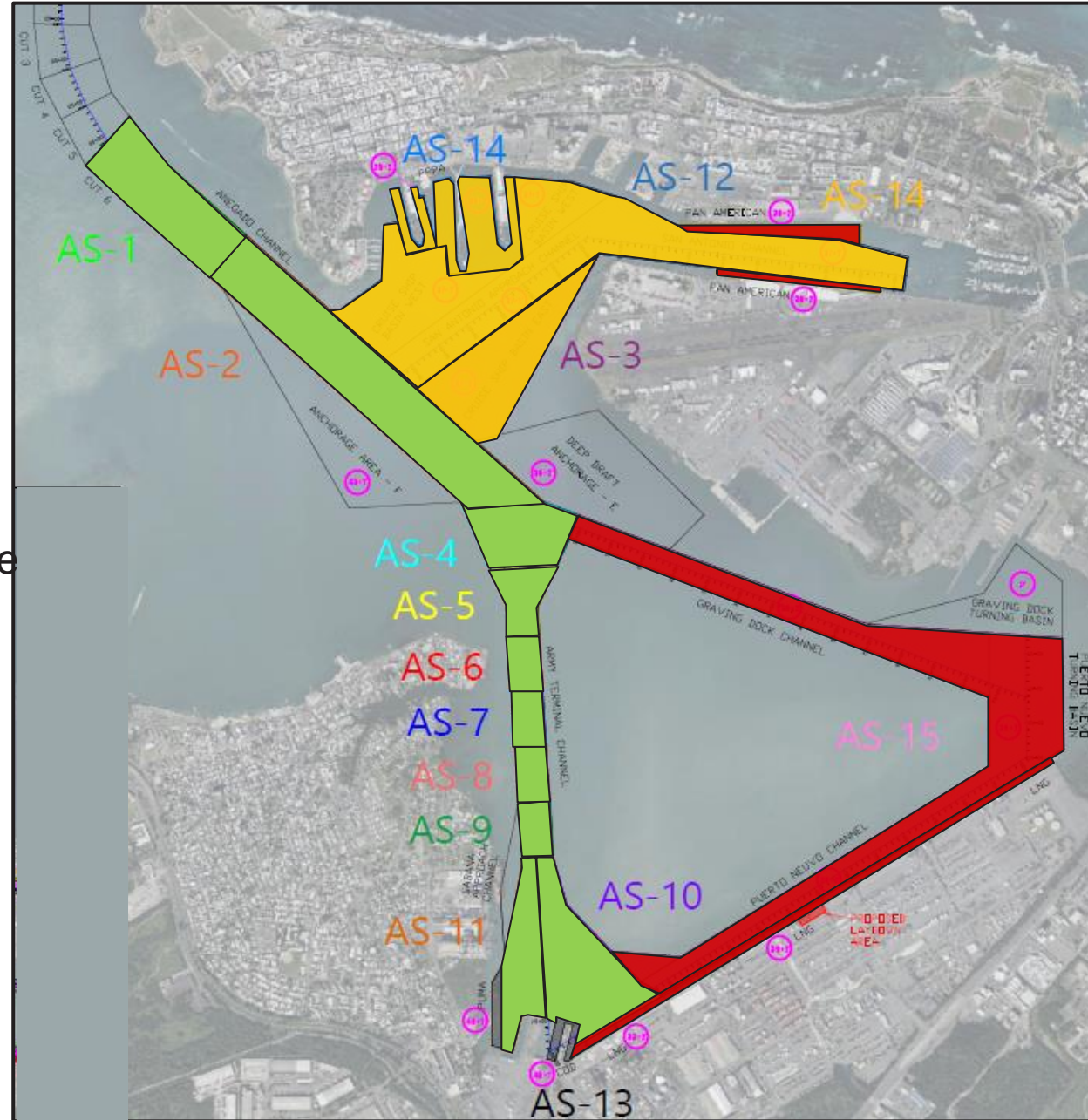
# SJH CONSTRUCTION PROGRESS UPDATE



Total Material Dredged		
	CY	%
Actual Dredged Material	2.2 M	88
Total To be Removed	2.8 M	-



# SJH PROGRESS AND STATUS OF THE AS



Status of the Construction of the

Finished

Not Started

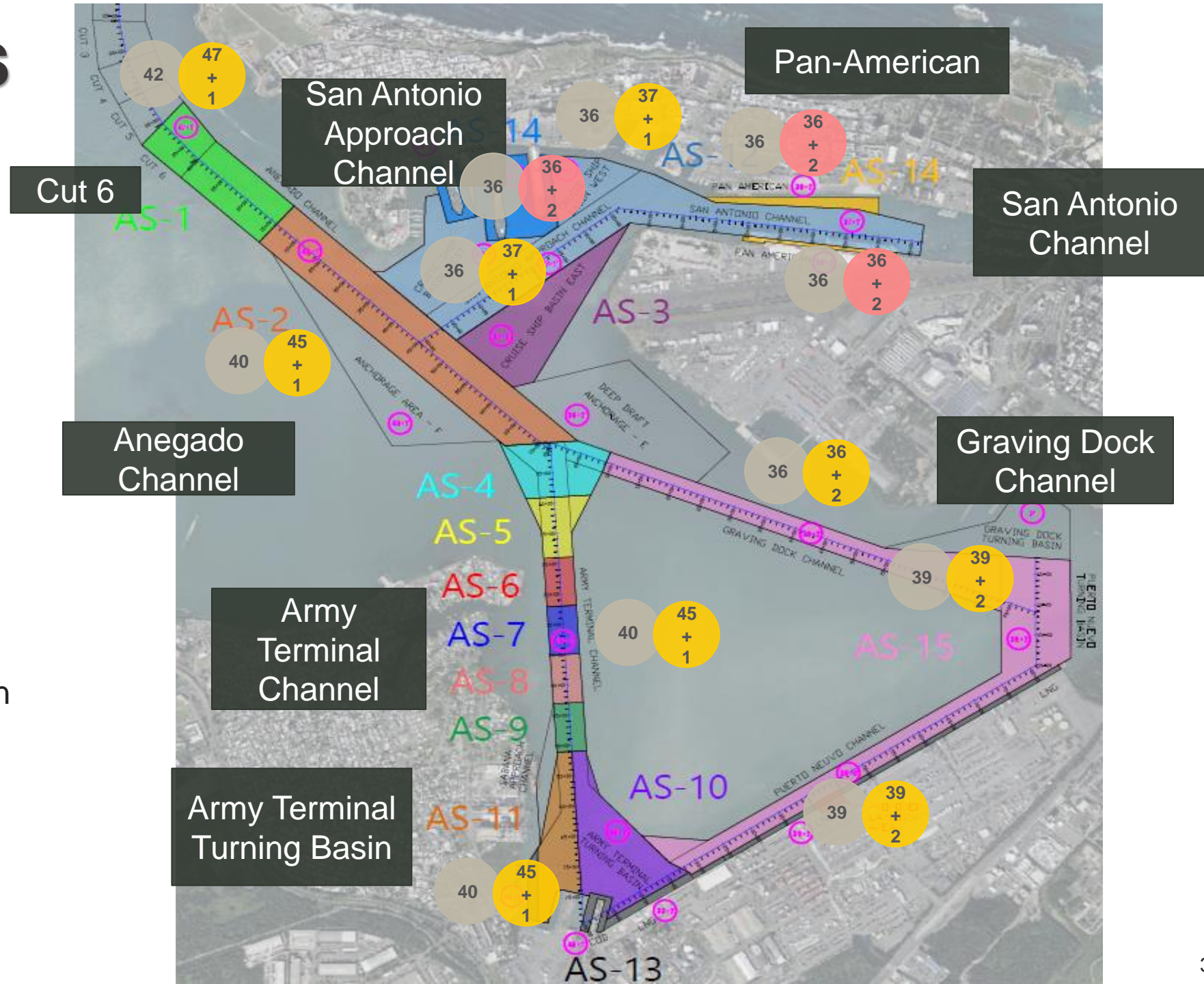
Started not Completed



# SJH DEPTHS

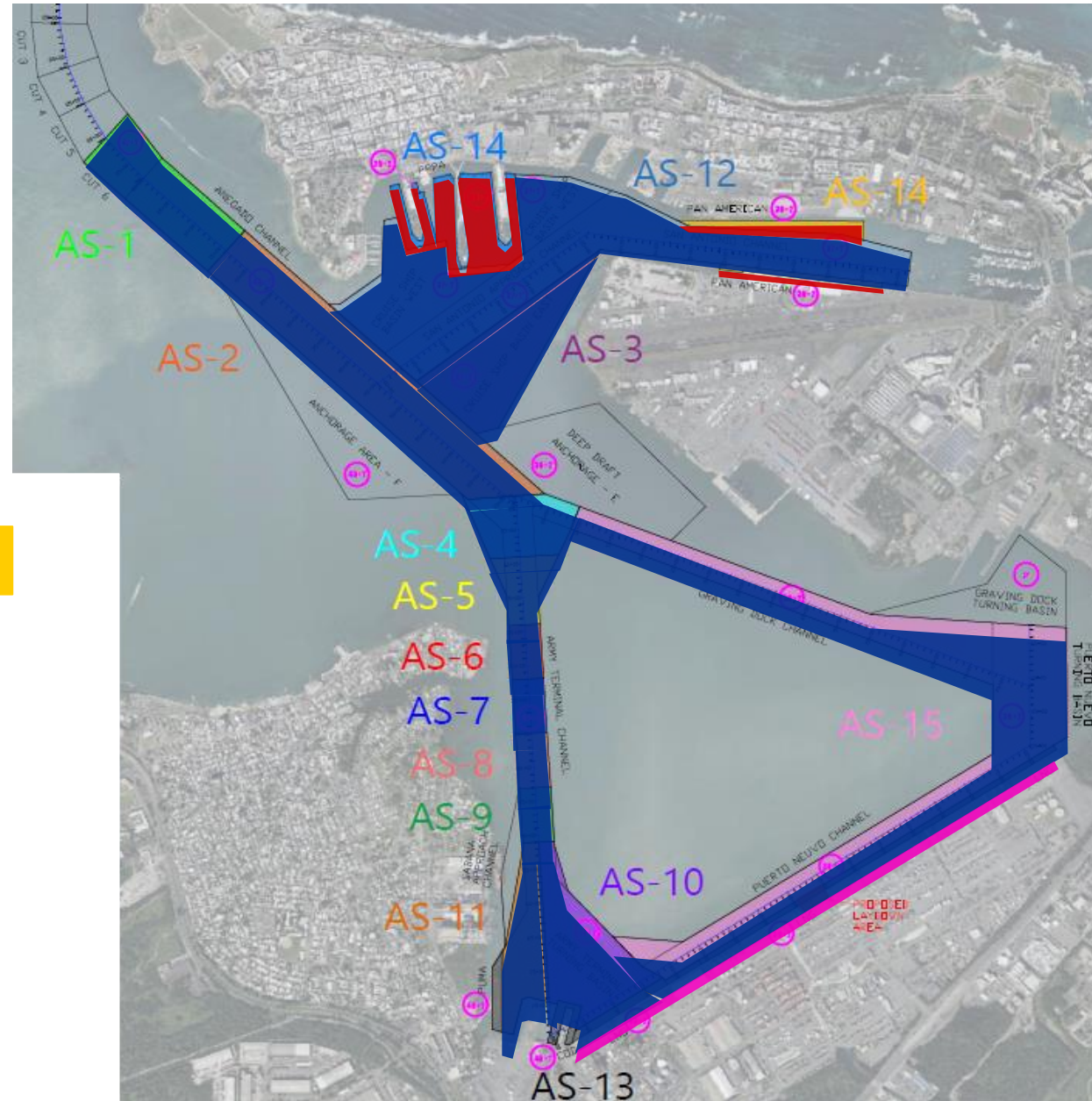
Legend:  
Depths (ft)

- Original
- Contractual – Base
- Contractual - Option





# SJH BASE AND OPTIONS



Contract: Base and Options

Base

Option A

Option B



# BENEFITS TO PUERTO RICO



The San Juan Harbor Construction and Maintenance project will contribute the following benefits to Puerto Rico.

- Improve the safety of the voyages.
- Maintaining proper depth clearance (bigger depth = bigger boats/barges).
- Increases the depth of navigation channels, ports and berths.
- Improves the free flow of maritime traffic (freight, tourism, private, military, etc.).
- Optimize the navigational network of the San Juan Harbor.
- Provide more hydraulic capacity to the SJH adjacent areas (flood control).
- 75% reduction in CO2 footprint compared with other dredge/mechanical projects.



SJH “La Puntilla” Navigational Map