Pre-Solicitation Meeting
November 4, 2020

PORT EVERGLADES
SAND BYPASS PROJECT
BROWARD COUNTY, FL

BROWARD COUNTY
FLORIDA

olsen
associates, inc.
Coastal Engineering
About today…

• This optional information session presents an opportunity for vendors to learn about the Broward County, Florida Port Everglades Sand Bypass Project.

• Today’s session is informational only – requirements / conditions may change. The advertised solicitation (estimated early 2021) will include all final solicitation requirements.
AGENDA

• Welcome (Meeting Purpose, Guidelines, and Agenda Overview)
• Introductions
• Project Overview
• History / Site Overview
• Description of Project Components
  • Dredging Work
  • Rock Work
  • Environmental Features
• Access, Staging, Storage, and Works Areas
• Permits and Permit Conditions
• Coordination with Other Entities
• Construction Schedule
• Funding
• Solicitation Requirements
• Note – Cone of Silence will be in effect upon bid advertisement.
• Questions and Answers
• Next Steps
Introductions…

Environmental Protection and Growth Management Department (EPGMD)
Samantha Danchuk, Ph.D., P.E.
Jennifer Jurado, Ph.D.

Purchasing Division
Constance Mangan, Purchasing Manager
Stacy-Ann Brown, Purchasing Agent

Broward County’s Consultant
Olsen Associates, Inc., Chris Creed, P.E.

Port Everglades Department
Mathew Harold, Construction Project Management Supervisor
Conrad Strong, Chief Harbormaster

Office and Economic and Small Business Development (OESBD)
Darnell Kimbrew, Small Business Development Specialist
Broward Resilience

• Regional Sediment Management and Inlet Management

• Climate Change Actions #19 and 76

• 1st Adaptation Action Area of Regional Significance

• Supports Commission’s Goals
  – Proactively lead resilience projects, especially shore protection
  – Promote sustainable practices
  – Collaboration with jurisdictions for coastal management
PROJECT COMPONENTS

• **DREDGING**
  - Granite Boulder Recovery and Temporary Storage
  - Limestone Boulder Removal and Disposal (ODMDS)
  - Sand Trap Excavation (North Beach/ODMDS)
  - Sand Placement on North Beach
  - Rubble Shoal Removal (ODMDS)

• **ROCK WORK**
  - North Jetty Extension
  - North Jetty Improvements
  - Interior Groin

• **ENVIRONMENTAL**
  - Boulder Barrier (Limestone)
  - Mitigation Reefs (0.5 acres) (Limestone)
  - Clearing Rubble from Substrate (7.3 acres)
1. RECOVER REMNANT BOULDERS FROM OLD JETTY FOUNDATION AND REUSE IN NORTH JETTY EXTENSION (See Sheet R-1)

2. PRIOR TO SAND TRAP EXCAVATION, COLLECT ALL LARGE LIMESTONE BOULDERS AND DISPOSE OF IN ODMS (Typ.) (See Sheet D-1)

3. EXCAVATE SAND TRAP (ALL MATERIAL, EXCEPT THOSE DETERMINED TO BE BEACH COMPATIBLE, SHALL BE DISPOSED OF IN THE ODMS) (See Sheets D-1 TO D-11)

4. PLACE BEACH COMPATIBLE SEDIMENTS ON BEACH NORTH JETTY (See Sheet D-16)

5. RAISE SAND TONGUE EXISTING NORTH JETTY STEM (See Sheets R-6 TO R-5)

6. EXTEND NORTH JETTY (See Sheets R-6 TO R-11)

7. REMOVE RUBBLE SHOAL (ODMS DISPOSAL) (See Sheets D-12 TO D-14)

8. CONSTRUCT RUBBLE BARRIER BOULDERS (See Sheet E-3)

9. CONSTRUCT INTERIOR GROIN (See Sheets R-12 TO R-14)

10. CLEAR SURFICIAL RUBBLE FROM SUBSURFACE TO EXPOSE HARD REEF SUBSTRATE (ODMS DISPOSAL) (See Sheet E-5)

11. CONSTRUCT LATTICE REEF REEFS (See Sheets E-4 & E-5)
• Granite Boulders
• 6-9 tons each
• 5,000-7,000 tons
LIMESTONE BOULDERS

Note: All material excavated from the sand trap areas, except that determined to be beach compatible, shall be disposed of in the ODMDS (See Sheet D-15). Beach compatible sand shall be placed along the beach north of the inlet area (Sheet D-15).

- ODMDS Disposal

Additional boulders may be buried by rubble within sand trap area.
SAND TRAP

- Sand, Rubble, Rock
- ~280,000 cy (+/-)
- ODMDS / Beach

Note: All material excavated from the sand trap areas, except that determined to be beach compatible, shall be disposed of in the ODMDS (See Sheet D-16). Beach compatible sand shall be placed along the beach north of the site (see Sheet D-10).
PRE-TREATMENT
- No Blasting
- No Cutterhead Chopping

Sand, Silt, Weakly Cemented Limestone
Sandy Limestone and Limestone
Sandstone and Shelly Sandstone with Sand Pockets
• Sand and Light Rubble
• 10,000 to 30,000 cy
• Screening Required
Rubble and Sand

~120,000 cy (+/-)

ODMDS Disposal
- Stone-Filled Marine Mattress Foundation (~16,000 sq. ft.)
- Armor Rock and Chinking Stone (~15,000 tons)
- Sp.gr. 2.65 (min.)
SKY HARBOR EAST CONDO

LAYOUT INFORMATION FOR STRUCTURE CENTERLINES

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NO UPLAND ACCESS

PROTECT STEEL WALL WITH TIMBERS (SEE SHEET R-14)

TIE WESTERN END OF GROIN INTO EXISTING STEEL SEAWALL

EXISTING STEEL SEAWALL (DO NOT DISTURB)

GROIN HEAD (EL = +4)

SLOPE TOE (APPROX) MAY VARY BASED ON CONDITIONS AT TIME OF CONSTRUCTION

GROIN STEM (EL Varies +6 TO +4)

STONE FILLED MARINE MATTRESS FOUNDATION (BX)

GROIN LAYOUT PLAN

DIMENSIONS

- 300' N
- 360' N
- 380' N
- 400' N
- 420' N

R-12
• Stone-Filled Marine Mattress Foundation (~6,500 sq. ft.)
• Armor Rock and Chinking Stone (~1,500 tons)
• Sp.gr. 2.65 (min.)
Two Sites
0.2 acres
0.3 acres
2,800 tons
4-6 ft limestone boulders
Only Water Access for Equipment and Materials
• VIBRATION MONITORING AND CONTROL
  - Dredging
  - Beach Activities
  - Jetty Work
    - Sheetpile Installation
    - Boulder Placement

• ENVIRONMENTAL PROTECTION
Turbidity mixing zone limits
1,000 m to the west / 300 m to the north / 500 m to the east / 150 m to the south
All distances are from the source of turbidity at the dredge site.
FDEP SC 24- Turbidity Monitoring

- Turbidity Monitoring - 3 times/daily, 4-hr intervals

- If turbidity at the compliance sites is greater than 29 NTUs above background, construction shall cease immediately and not resume until corrective measures have been taken and turbidity has returned to acceptable levels.

All Turbidity and Sedimentation Monitoring will be conducted by third party consultants under separate contract to Broward County.
Additional twice/daily turbidity monitoring at hardbottom habitats during dredging

Samples will be over consolidated pavement ridge habitats.
BMP Section 3.1.3.4- Adaptive Management of Dredging Operations

• If the densest portion of the plume extends within a 10-m radius of the same location for three consecutive days, and turbidity exceeds 10 NTUs at each reading, the benthic community shall be inspected for impacts on the following day.

• Modification of dredging operations (e.g., moving the dredge to another location in the sand trap or reducing the dredge production rate) shall be considered if it seems possible that these actions could potentially reduce the level of sediment deposition on the colonized pavement habitat.
Additional weekly turbidity monitoring at seagrass beds on the north side of the interior channel during dredging of the impoundment basin
Coral Spawning Window

No Dredging (Sand Trap and Rubble Shoal Only)

- July 21 – August 16, 2021
- August 19 – September 14, 2021

Dates are Subject to Change
Nov 4, 2020 - Industry Meeting
Jan 15, 2021 - Announce Bid
Jan 22, 2021 - Non-Mandatory Pre-bid Conference
Apr 15, 2021 - Bid Response 60 days from announcement
Apr 16, 2021 - Announce Award
May 2021 - Broward County Board of County Commissioners Approval
June 1, 2021 - Construction NTP
June 1, 2022 - Final Acceptance

Dates are Subject to Change
• REQUIRED FUNDING IS SECURED

• LOCAL PROJECT
  – Broward County
  – State of Florida

• BUDGET = ~$30M (+/-)
Solicitation Requirements

Bidder qualifications

- Prime - previous experience with similar dredging projects
- Subcontractor(s) – previous experience for major subcomponents (i.e. rock/jetty work)

Prevailing Wage Rates (in effect at the time of bid advertisement)

Grant/State Requirements (State of Florida – Department of Environmental Protection)
Solicitation Requirements

- **Bonding**
  - Bid Guaranty of 5%
  - Payment & Performance Bonds - 100%

- **Insurance Requirements**
  - General Liability
  - Auto
  - Protection and Indemnity - Watercraft
  - Workers Comp/Longshoreman
  - Pollution /Environmental
  - Broward County as additionally insured and certificate holder
Solicitation Requirements

Goal Participation Requirements

• Must use Broward County CBE firms
• Percent will be included in advertised solicitation
• Review available/certified firms https://www.broward.org/EconDev/Pages/default.aspx
Solicitation Requirements

• Workforce Investment (hard-to-hire/disadvantage)
• Security Requirements for Port Everglades
• Domestic Partnership (provide/offer benefits)
• Local Preference
Solicitation Requirements

Bid will include Broward County Contract (no negotiations)*
https://www.broward.org/Purchasing/Pages/Default.aspx

*The BCF170 form may be updated prior to final advertisement. Bid will include final contract/requirements.

2. Standard Form Construction Contract Form (BCF #170)
Solicitation Timeline

- Bid Advertisement – mid-January 2021
- Expected to be advertised for 5 to 6 weeks
  - Pre-bid Meeting and Site Visit
  - Includes time for Questions and Answers
  - Addenda (if applicable)
- Open and review bids (responsiveness/responsibility)
- Award Recommendation
- Award/Contract Execution
- Using Agency issues First Notice to Proceed
Cone of Silence – Invitation for Bid

• A Cone of Silence shall be in effect upon advertisement of the Invitation to Bid.

• Prohibits any and all communications between the Board, Board’s staff, County Administrator, Deputy County Administrator, Assistant County Administrators, Assistants to the County Administrator, their support staff and all affected persons as defined by the Ordinance between:
  ✓ Any potential vendor,
  ✓ Vendor’s Representatives,
  ✓ Subcontractors,
  ✓ Team members, etc.
Wrap up…

- Register for Periscope S2G for future solicitation.

- E-mail will be sent to today’s attendees with vendor attendance.

- Note – Vendors are requested to submit their contact information to the Purchasing Agent (stabrown@Broward.org). Indicate in e-mail if prime contractor, subcontractor, or supplier, and contact information.