

**AMENDMENT TO AGREEMENT BETWEEN COUNTY AND CONSULTANT
RFQ2023-3507**

THIS AMENDMENT #1 made and entered into this ____ day of _____ in the year 2024, by and between **MARTIN COUNTY**, a political subdivision of Florida, (Hereinafter “County”), 2401 SE Monterey Road, Stuart, Florida 34996 and **Gahagan & Bryant** (Hereinafter “Consultant”), 3802 West Bay to Bay Blvd., Suite B-22, Tampa, FL 33629-6826.

WITNESSETH

WHEREAS, the **County** and **Consultant** entered into an Agreement for Professional Services for the Operation & Management of the St. Lucie Inlet on September 26, 2023; and

WHEREAS, the **County** and **Consultant** wish to amend the Agreement to include Tasks 8-11, focusing on expanding permitted dredging areas due to the migration of the inlet spit outside of the existing impoundment basin limits; and

WHEREAS, the amendment incorporates modifications to include Cut 2, a seaward portion of the federal channel, and additional dredged material disposal options for improved management of the St. Lucie Inlet (SLI) and its sand resources. The **Consultant** has documented and justified these changes in Exhibit A; and

WHEREAS, recent requests from the U.S. Army Corps of Engineers (USACE) necessitate permit modifications to authorize maintenance of additional segments of the federal navigation channel, specifically expanding Cut 2 westward and extending Cut 1 eastward to Station 20+00.

WHEREAS, the **County** and **Consultant** agree to amend the agreement to include additional tasks: Task #8 – Permit Maintenance & Updates (\$57,514.89), Task #9 – Data Collection (\$116,529.69), Task #10 – Biological Assessment (\$36,738.25), and Task #11 – Design and Permitting (\$253,649.32), for a total amendment amount of \$464,432.15.

NOW THEREFORE, in consideration of the promises, covenants, and mutual benefits which all accrue to the parties hereto in carrying out the terms of this Agreement, it is mutually covenanted and agreed that the contract will be amended as follows:

1. Add Tasks 8-11, as documented and justified by the **Consultant** and detailed in Exhibit A.
2. The original contract amount of \$2,791,659.15 is increased by \$464,432.15, resulting in an amended total contract amount of \$3,256,091.30.
3. All remaining pricing, terms, and conditions of the Agreement not specifically amended herein shall remain in full force and effect.

IN WITNESS WHEREOF, the parties hereto have executed this Amendment to the Agreement as of the date first set forth above.

REVIEWED BY

**BOARD OF COUNTY COMMISSIONERS
MARTIN COUNTY, FLORIDA**

James Gorton
Public Works Department Director

Don G. Donaldson, P.E.
County Administrator

GAHAGAN & BRYANT ASSOCIATES, INC

**APPROVED AS TO FORM AND LEGAL
SUFFICIENCY**



Kevin M. Kremkau
Chief Operating Officer

Sarah W. Woods
County Attorney

August 22, 2024

Jessica Garland
Coastal Program Manager
Martin County Board of County
Commissioners 2401 SE Monterey Road
Stuart, FL 34996

RE: Scope of Services and Fee Proposal for State and Federal Permit Modifications in Support of the St. Lucie Inlet Operations and Management Plan

Dear Mrs. Garland,

Below please find the requested proposed scope of work for permitting services in support of the St. Lucie Inlet Operations and Management Plan. The primary focus of this task will be the expansion of the permitted dredging areas to include the area west of the impoundment basin due to the recent migration of the inlet spit outside of the permitted impoundment basin limits. This scope also covers the inclusion of Cut 2 and a seaward portion of the federal channel, which are currently omitted from the existing permit.

The tasks are shown as having unit rates either as lump sum (LS) or time and materials (T&M). Tasks that have uncertainty or variability in their anticipated scope have been budgeted on a T&M basis to allow for future flexibility and coordination with County staff. These tasks will be executed as discussed and coordinated with County staff during scheduled meetings. The fee estimate assumes the work discussed herein will be completed during a two year period.

Modification of State & Federal Permits

Background

In 2022, Martin County's state and federal permits authorizing ongoing management and maintenance of St. Lucie Inlet (SLI) were both modified to add a new beach placement area at St. Lucie Inlet Preserve State Park (SLIPSP). This new dredged material disposal site expanded options for continued management of SLI and its sand resources. The permit modifications were issued just ahead of the start of construction; however, they contained a few errors and undesirable regulatory consequences that were not previously addressed due to project time constraints.

Recently, representatives from the US Army Corps of Engineers (USACE) requested Martin County modify their SLI permits to expand authorization for maintenance of additional segments of the federal navigation channel where shoaling tends to accumulate. Specifically, the USACE would like to add Cut 2 to the west and expand Cut 1 east to Station 20+00. Presently, the western limit of the permitted navigation channel dredge template ends concurrent with the west end of the impoundment basin, and the eastern limit is to Station 22+00. The request to modify the SLI permits would result in regaining previously authorized segments of the federal navigation channel.

Since 2012, SLI has been maintained at intervals far more frequent than years prior with maintenance dredging performed every two to three years. Nourishment of the beaches north of the inlet have also increased in frequency. During this time, the volume of sand collected in the impoundment basin is increasing and at the same time being pushed farther westward resulting in emergent areas beyond the west side of the impoundment basin. Capturing this sand during maintenance dredging events is becoming increasingly difficult, making sand bypassing less efficient overall. To address this issue, Martin County would like to expand the authorized impoundment basin limits further west. Permit modification and expansion areas are illustrated in Attachment B.

Scope of Work

The effort described in this task assignment is to work with regulatory authorities to seek a major modification to both state and federal permits for maintenance of SLI. Because 'new work' is proposed, the permit modifications sought will be treated as new permit applications, requiring submittal of all permit application elements, not just those proposed for modification. The goal of the modifications is to correct errors, remedy the unintended consequences of the 2022 permit modifications, extend the navigation channel dredge template and expand the impoundment basin to the west. Specifically, the following permit modifications will be sought:

Description of modification	State	Federal
Restore project elements inadvertently eliminated from previous modifications	X	X
Extend the SLI navigation channel template	X	X
Extend impoundment basin westward	X	X
Update the Physical Monitoring Plan (2007) to include modified survey areas	X	

Task 8 - Permit Maintenance & Updates

Task 8A - Project Kick-off, Project Management, and Team\County Meetings

(T&M) Upon receipt of PO and Notice to Proceed, the Project Manager will develop the workplan and prepare work assignments for team members and delivery in an internal kick off meeting. The team will prepare a tentative schedule of events allowing flexibility for data required from fieldwork. Regular monthly meetings will be held with County staff to provide updates to permitting progress and provide review of collected environmental resources data.

Task 9 - Data Collection

Under this task, the requisite environmental and physical data collection will be performed by the GBA team to support project design and permitting acceptability.

9A - Environmental data collection (T&M)

1. Navigation channel

An assessment of underwater resources between Stations 22+00 and 20+00 of the navigation channel Cut 1 and the entirety of Cut 2 will be performed to document the presence or absence of submerged resources within the proposed limits of the navigation channel dredge template.

2. Impoundment basin expansion area survey

An assessment of underwater resources throughout the proposed impoundment basin expansion area will be performed to document the presence or absence of submerged resources within the proposed expanded dredge template.

9B - Sediment data collection, probings, & vibracores (LS)

Sand grab samples will be collected in the proposed expansion area to the west of the existing impoundment basin and analyzed to confirm and document the suitability of the material for beach placement for regulatory authorities.

Sediment grab samples will also be collected along Cut 2 and east of the authorized segment of Cut 1. Samples will be analyzed to determine sediment quality and compatibility for beach placement.

Jet probes of the proposed basin expansion area will be performed along the annual survey profiles spaced at 100'. The individual probes will be taken with a steel jet probe at 50' intervals along the profiles to determine the top of limestone rock or dense clay layers. The elevation of refusal on each probe shall be mapped and analyzed to be utilized in determining the maximum depth of excavation in the expanded basin dredging area.

Approximately four vibracores will be obtained within the proposed basin expansion area and approximately four vibracores will be obtained in the Cut 2 dredging area. The vibracores will be obtained in a continuous core until refusal is met. The collected cores will be logged and analyzed for grain size, Munsell color, and carbonate content in accordance with FDEP guidelines.

Task 10 - Biological Assessment (LS)

To request authorization to expand the impoundment basin west and include additional segments of the navigation channel into the dredge template, it is anticipated that a new Biological Assessment (BA) will be required. A BA includes a comprehensive assessment of the potential environmental impacts of the proposed permit modifications on listed species and will assist the regulatory agencies in evaluating the application. A BA will be prepared using the results of the

above marine resources surveys to assist regulatory agencies with review of the potential impacts of the proposed modifications on listed species.

Task 11 -Design and Permitting (LS)

11A -Design & Permit Drawings

The County's annual inlet monitoring surveys will be reviewed, and cross-sections overlain in an effort to determine the top of rock substate and resulting maximum design depth in the proposed expanded impoundment basin area. The historic survey data will be analyzed to determine the appropriate footprint of the basin expansion. Surveys will also be analyzed to incorporate the addition of Cut 2 and the seaward expansion of Cut 1 (station 22+00 to 20+00) into the design dredge template. This task will combine the data collected to prepare design of the expanded dredge template to approximately 60% for use in pre-application meetings. Once the proposed modifications are reviewed and feedback received, comments will be incorporated into the permit drawings for the state and federal permit modification applications submittal.

In addition to the design, the SLI Physical Monitoring Plan will be updated for the JCP application package. The Physical Monitoring Plan in place approved by FDEP is from 2007. Since that time, changes to the bathymetric survey area determined through updates to the Sediment Budget have been approved by FDEP, but not formally updated and adopted in the regulatory authorization. This task will help formalize the expanded survey areas in the Physical Monitoring Plan as required by permit.

11B - Pre-application meetings (LS)

Pre-application meetings with both the FDEP and the USACE will be scheduled. Two individual virtual meetings are expected, one with FDEP and one with the Cocoa Beach regulatory office of USACE. An agenda and meeting materials with graphics will be drafted to clearly illustrate the elements of the request for modification. These meeting materials will be sent to Martin County for review and a follow up meeting will be scheduled to discuss any feedback. Changes will be incorporated into the presentation materials and agenda in advance of the agency meetings.

11C - Permit applications (LS)

The GBA Team will assemble the information and prepare the documentation required for the permit modification application packages. Draft applications will be submitted to the County for review. The applications will include new updated permit drawings and an updated Physical Monitoring Plan. Any comments and suggestions by the County will be incorporated and if necessary, a meeting will be held to discuss feedback. Once approved, the application packages will be submitted to the agencies. Please note, this task does not include submittal of permit fees.

11D – Response to Request for Additional Information (RAI) and Draft Permit Review (T&M)

The scope includes responses to two RAI from each the FDEP and the USACE. Customarily, regulatory agencies will provide a draft permit for the applicant to review. This task includes

review of draft permit documents to provide recommendations prior to final issuance of regulatory authorizations.

The cost to provide the professional engineering, permitting, and biological surveying services as outlined above totals \$464,432.15. The attached estimate provides a breakdown of the requisite labor and expenses. We trust that this quote meets with your approval. Should you have any questions or require any additional information regarding this matter, please do not hesitate to call.

Best Regards,



Kevin Kremkau, P.E.

Project Manager

Attachment A: Estimated Cost Breakdown

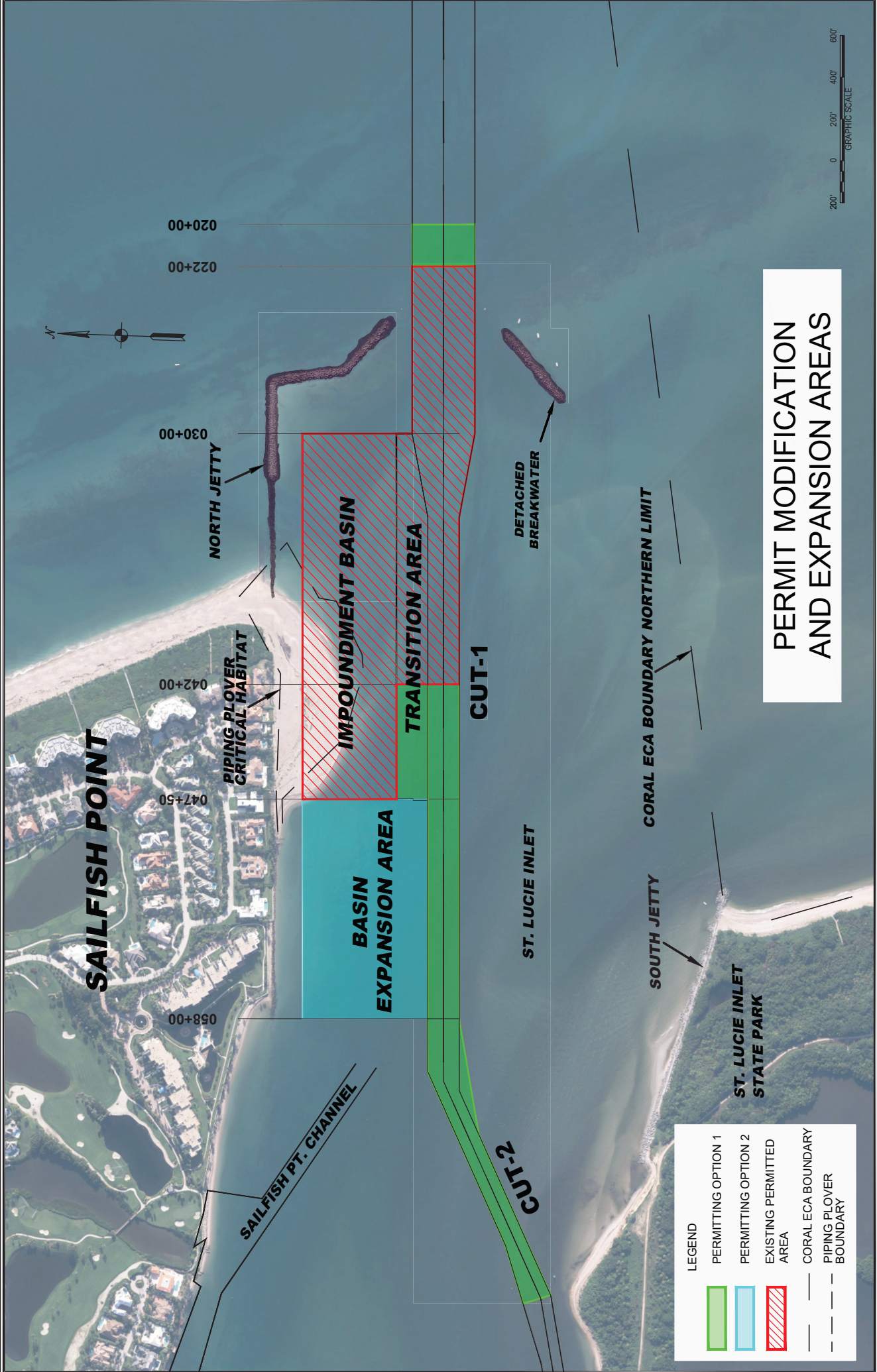
GAHAGAN AND BRYANT ASSOCIATES, INC.

Exhibit A: Fee Proposal for Professional Services for the Operation and Management of the St. Lucie Inlet

State & Federal Permit Modifications for St. Lucie Inlet Maintenance Dredging Professional Services Fee Proposal				
Task	Sub-Task	Description	Unit	Estimated Total Cost
Task 8	8A	Project Kick-off & Team\County Meetings	T&M	\$57,514.89
Task 9 Data Collection	9A	Environmental Data Collection - Channel & Impoundment Basin Expansion Survey	T&M	\$60,501.69
	9B	Sediment Data Collection & Probings & Vibracores	LS	\$56,028.00
Task 10	10	Biological Assessment	LS	\$36,738.25
Task 11 Design & Permitting	11A	Basin Design & Permit Drawings	LS	\$91,427.38
	11B	Pre-application Meetings	T&M	\$24,224.60
	11C	Permit Applications	T&M	\$74,217.72
	11D	RAI Responses & Draft Permit Review	T&M	\$63,779.62
Grand Total of Estimated Costs				\$464,432.15

Professional Services for O&M of St. Lucie Inlet Martin County, Florida																			
Task 8 - Project Kick-off & Team/County Meetings (TAM)			Task 9 - Data Collection				Task 10 - Biological Assessment				Task 11 - Design & Permitting								
PARTNER	CATEGORY	Rate	Task 8A		Task 9A		Task 9B		Task 10A		Task 10B		Task 11A		Task 11B		Task 11C		Task 11D
			HRS	LABOR	HRS	LABOR	HRS	LABOR	HRS	LABOR	HRS	LABOR	HRS	LABOR	HRS	LABOR	HRS	LABOR	
Fee Proposal for State & Federal Permit Modifications for St. Lucie Inlet Maintenance Dredging																			
GAHANAG AND BRYANT ASSOCIATES, INC.	Principal	\$296.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	Response to RAI and Draft Permit Review (TAM)
	Sr. Associate	\$266.00	40.00	\$10,640.00	24.00	\$6,384.00	8.00	\$2,128.00		\$2,128.00	40.00	\$10,640.00	8.00	\$2,128.00	32.00	\$8,512.00	24.00	\$6,384.00	
	Associate	\$172.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	
	Sr. Scientist	\$172.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	
	Sr. Engineer	\$172.00	40.00	\$6,880.00		\$0.00	8.00	\$1,376.00		\$688.00	16.00	\$2,752.00	8.00	\$1,376.00	40.00	\$5,640.00	40.00	\$5,640.00	
	Engineer 2	\$141.00	40.00	\$5,640.00	24.00	\$3,360.00	40.00	\$4,960.00		\$972.00	80.00	\$8,720.00	16.00	\$2,256.00		\$0.00		\$0.00	
	Engineer 1	\$109.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	
	Sr. Tech	\$138.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	
	Tech 1	\$109.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	
	Tech 2	\$77.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	
Total Labor			120.00	\$23,160.00	68.00	\$11,348.00	112.00	\$16,848.00	20.00	\$3,080.00	352.00	\$44,728.00	40.00	\$7,432.00	88.00	\$17,480.00	88.00	\$17,480.00	
Total Direct Costs				\$3,123.17		\$4,413.97		\$0.00		\$3,084.57		\$3,084.57		\$1,926.00		\$3,156.52		\$4,290.00	
G&B Subtask Totals																			
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Total Direct Costs				\$3,123.17		\$4,413.97		\$0.00		\$3,084.57		\$3,084.57		\$1,926.00		\$3,156.52		\$4,290.00	
G&B Subtask Totals																			
Total Labor			120.00	\$23,160.00	68.00	\$11,348.00	112.00	\$16,848.00	20.00	\$3,080.00	352.00	\$44,728.00	40.00	\$7,432.00	88.00	\$17,480.00	88.00	\$17,480.00	
Total Direct Costs				\$3,123.17		\$4,413.97		\$0.00		\$3,084.57		\$3,084.57		\$1,926.00		\$3,156.52		\$4,290.00	
G&B Subtask Totals																			
Total Labor			120.00	\$23,160.00	68.00	\$11,348.00	112.00	\$16,848.00	20.00	\$3,080.00	352.00	\$44,728.00	40.00	\$7,432.00	88.00	\$17,480.00	88.00	\$17,480.00	
Total Direct Costs				\$3,123.17		\$4,413.97		\$0.00		\$3,084.57		\$3,084.57		\$1,926.00		\$3,156.52		\$4,290.00	
G&B Subtask Totals																			
Total Labor			120.00	\$23,160.00	68.00	\$11,348.00	112.00	\$16,848.00	20.00	\$3,080.00	352.00	\$44,728.00	40.00	\$7,432.00	88.00	\$17,480.00	88.00	\$17,480.00	
Total Direct Costs				\$3,123.17		\$4,413.97		\$0.00		\$3,084.57		\$3,084.57		\$1,926.00		\$3,156.52		\$4,290.00	
G&B Subtask Totals																			
Total Labor			120.00	\$23,160.00	68.00	\$11,348.00	112.00	\$16,848.00	20.00	\$3,080.00	352.00	\$44,728.00	40.00	\$7,432.00	88.00	\$17,480.00	88.00	\$17,480.00	
Total Direct Costs				\$3,123.17		\$4,413.97		\$0.00		\$3,084.57		\$3,084.57		\$1,926.00		\$3,156.52		\$4,290.00	
G&B Subtask Totals																			
Total Labor			120.00	\$23,160.00	68.00	\$11,348.00	112.00	\$16,848.00	20.00	\$3,080.00	352.00	\$44,728.00	40.00	\$7,432.00	88.00	\$17,480.00	88.00	\$17,480.00	
Total Direct Costs				\$3,123.17		\$4,413.97		\$0.00		\$3,084.57		\$3,084.57		\$1,926.00		\$3,156.52		\$4,290.00	
G&B Subtask Totals																			
Total Labor			120.00	\$23,160.00	68.00	\$11,348.00	112.00	\$16,848.00	20.00	\$3,080.00	352.00	\$44,728.00	40.00	\$7,432.00	88.00	\$17,480.00	88.00	\$17,480.00	
Total Direct Costs				\$3,123.17		\$4,413.97		\$0.00		\$3,084.57		\$3,084.57		\$1,926.00		\$3,156.52		\$4,290.00	
G&																			

Attachment B: Permit Modification and Expansion Areas



SAILFISH POINT

SAILFISH PT. CHANNEL

NORTH JETTY

**PIPING PLOVER
CRITICAL HABITAT**

00+00
00+22+00
00+30+00

042+00

047+50

058+00

IMPOUNDMENT BASIN

TRANSITION AREA

CUT-1

**DETACHED
BREAKWATER**

ST. LUCIE INLET

CUT-2

CORAL ECA BOUNDARY NORTHERN LIMIT

SOUTH JETTY

**ST. LUCIE INLET
STATE PARK**

**PERMIT MODIFICATION
AND EXPANSION AREAS**

LEGEND

- PERMITTING OPTION 1
- PERMITTING OPTION 2
- EXISTING PERMITTED AREA
- CORAL ECA BOUNDARY
- PIPING PLOVER BOUNDARY

