

**Backup Information for MBRC: 2020 FIND Grant Application Legislation**

The following four projects were recommended for the 2020 FIND grant project list by the Jacksonville Waterways Commission at their meeting on 12/11/2019.

**Jacksonville Zoo Dock**

- City received a 2018 FIND grant for the design phase of this dock project which is currently underway by Prosser and permits are being pursued from DEP and USACE. Design and permits are expected to be completed by September 2020.
- The existing boat dock at the Jacksonville Zoo in the Trout River was heavily damaged by recent hurricanes and is no longer available to the public. And, prior to this damage, the dock was inaccessible to most boats due to the shallow water depths approaching the dock. For many years a dredge project was desired but never pursued due to the high cost and short life expectancy before another expensive dredge would be required. In recent years, the Waterways Commission and Zoo have studied and discussed potential solutions to providing a sustainable water access to the zoo and the preferred option is to build a new dock at the location of the former Gate concrete piers on east side of property where depths are deep enough to not require any dredging. The zoo's master plan is being updated to reflect this planned dock.
- The opinion of probable construction cost provided by Prosser is \$955,747 which includes a 30% contingency. Public Works (Bob Scott) and Parks (Brian Burket) reviewed the estimate and increased the cost to \$1,000,000 and added 10% (\$100,000) to cover internal Public Works costs (i.e. project management and inspection fees) which are not reimbursable by FIND. Therefore, the FIND grant award request is \$500,000 and City cost is \$600,000, totaling \$1,100,000.
- Expect to receive grant award in October 2020 and construct project in 2021.
- Attached are the current design plans and opinion of probable construction cost.

**Riverfront Park Fishing Platform**

- City received a 2017 FIND grant for the design phase of this project which is currently at 100% by HDR and the DEP permit has been obtained and USACE permit is expected in early 2020.
- Riverfront Park is a passive, waterfront park in the San Marco neighborhood situated between the St. Johns River and River Road. The bulkhead is popular with fishermen which has led to some conflicts and concerns with adjacent neighbors. Following public meetings a few years ago, a compromise was reached to pursue the development of a fishing structure to provide an enhanced and accessible fishing opportunity while prohibiting fishing from the remaining bulkhead.
- The opinion of probable construction cost provided by HDR is \$600,000 which includes a 15% contingency. Public Works (Bob Scott) and Parks (Brian Burket) reviewed the estimate and increased the cost to \$650,000 and added 10% (\$65,000) to cover internal Public Works costs (i.e. project management and inspection fees) which are not reimbursable by FIND. Therefore, the FIND grant award request is \$325,000 and City cost is \$390,000, totaling \$715,000.
- Expect to receive grant award in October 2020 and construct project in 2021.

- Attached are the current design plans and opinion of probable construction cost.

#### **Bert Maxwell Boat Ramp Dredge**

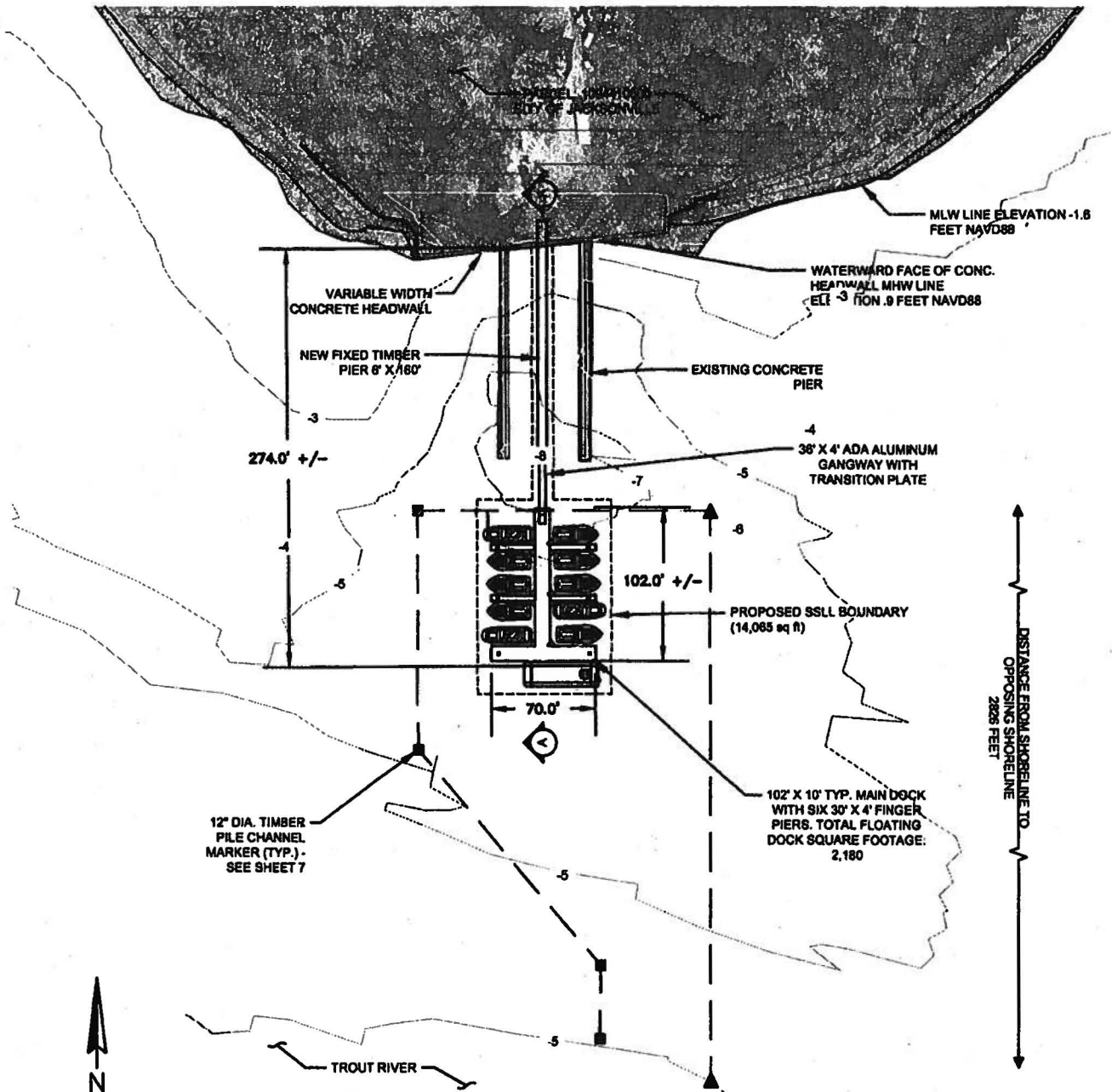
- City received a 2018 FIND grant for the design phase of this dredge project which is currently underway by RS&H and all necessary permit applications to DEP and USACE have been submitted.
- Bert Maxwell Boat Ramp located at the intersection of the Trout River and Interstate 95 is a well-used ramp. The ramp can handle all size vessels, although the access channel has become silted in over the years making it harder for most vessels to navigate at low tide. The goal of this project is to dredge the access channel between the ramp and the main channel of the Trout River to ensure reliable functionality of the ramp. This area was last dredged in 2003. The design for the next dredge is proposed to be wider and deeper to achieve a longer lifespan.
- The opinion of probable construction cost provided by RS&H is \$873,000 which includes a 30% contingency. Public Works (Bob Scott) and Parks (Brian Burket) reviewed the estimate and increased the cost to \$900,000 and added 10% (\$90,000) to cover internal Public Works costs (i.e. project management and inspection fees) which are not reimbursable by FIND. Therefore, the FIND grant award request is \$450,000 and City cost is \$540,000, totaling \$990,000.
- Expect to receive grant award in October 2020 and construct project in 2021.
- Attached are the current design plans and opinion of probable construction cost.

#### **Goodbys Creek Dredge**

- City received a 2018 FIND grant for the design phase of this dredge project which is currently underway by RS&H and all necessary permit applications to DEP and USACE have been submitted.
- The city boat ramp located at the intersection of the Goodbys Creek and San Jose Blvd. is a well-used ramp. The ramp can handle all size vessels, although the access channel has become silted in over the years making it harder for some vessels to navigate at low tide. The goal of this project is to dredge the marked channel from the ramp to the confluence with the St. Johns River to ensure reliable functionality of the ramp. This area was last dredged in 2008. The next dredge is expected to have a lifespan of 15-20 years.
- The opinion of probable construction cost provided by RS&H is \$680,000 which includes a 30% contingency. Public Works (Bob Scott) and Parks (Brian Burket) reviewed the estimate and increased the cost to \$700,000 and added 10% (\$70,000) to cover internal Public Works costs (i.e. project management and inspection fees) which are not reimbursable by FIND. Therefore, the FIND grant award request is \$350,000 and City cost is \$420,000, totaling \$770,000.
- Expect to receive grant award in October 2020 and construct project in 2021.
- Attached are the current design plans and opinion of probable construction cost.

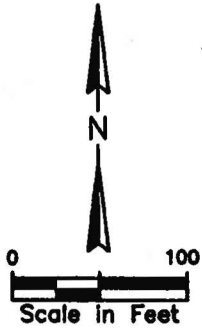
Zoo Dock Design

FOR PERMITTING PURPOSES ONLY  
NOT FOR CONSTRUCTION



**NOTE:**

1. SURVEY PERFORMED BY ARC SURVEYING AND MAPPING ON JUNE 19, 2018 AND JULY 8-9, 2019
2. VERTICAL DATUM NAVD88
3. HORIZONTAL DATUM IS FLORIDA STATE PLANE EAST ZONE NAD83
4. USE OF THE EXISTING FIXED PIER, IS PENDING STRUCTURAL EVALUATION



C:\Users\jgarcia\Documents\COJ Zoo Dock\COJ Zoo Dock permit 121018.dwg Layout2 (S) 12/13/19  
NOTE: THESE DRAWINGS AND DESIGNS ARE STRICTLY CONFIDENTIAL AND PROTECTED BY INTERNATIONAL COPYRIGHT LAW. DETAILS MUST NOT BE DISCLOSED, REPRODUCED OR COMMUNICATED TO A 3rd PARTY IN ANY FORM OR MANNER WITHOUT THE PROCA WRITTEN APPROVAL OF APPLIED TECHNOLOGY & MANAGEMENT.

PROJECT: COJ ZOO DOCKS  
WATERBODY: TROUT RIVER  
COUNTY: Duval  
STATE: Florida  
LATITUDE: 30 23' 51.79"N  
LONGITUDE: 81 38' 31.45"W

<b>PROPOSED CONDITIONS</b>	
Requested by: City of Jacksonville	
Project Address: 0 Zoo Parkway	
Parcel ID: 1094410000	

**ATM** DESIGN ENGINEERING CONSULTING  
100 SOUTHPARK BLVD.  
SUITE 407  
ST. AUGUSTINE, FL 32088  
COA #4889  
DECEMBER, 2019  
**SHEET 5**

**City of Jacksonville - Parks & Recreation Department  
Jacksonville Zoo & Gardens - Concept #1 - Reduced Fixed Pier**

**Opinion Probable Construction Cost - Conceptual Plans  
December 9, 2019**

	Quantity	Unit	Unit Cost	Total
<b>Project Costs</b>				
Mobilization and Demobilization	1	LS	\$120,000	\$120,000
Performance Bond	1	LS	\$21,336	\$21,336
Erosion and Sediment Control	1	LS	\$10,000	\$10,000
			<b>Total</b>	<b>\$151,336</b>
<b>Installation/Hardscape</b>				
New 4' x 40' Alum. Gangway and Transition Plate (ADA Compliant)	1	EA	\$15,000	\$15,000
New Conc. Floating Docks	1580	SF	\$160.00	\$252,800
New 60' x 24" Square Concrete Piles	12	EA	\$9,600	\$115,200
FWC Reflective Tape for Dock and Piles	1	LS	\$1,000	\$1,000
Misc. Repairs to Existing Bulkhead	1	Allow	\$10,000	\$10,000
Fixed Wood Access Pler (8'x180') on Wood Piles	960	SF	\$150	\$144,000
ADA Accessible Walkway - Wood Ramp to Existing Grade	216	SF	\$75.00	\$16,200
Channel Markers to Maintain -5.0 NAVD88 Depth	6	EA	\$4,500.00	\$27,000
			<b>Install/Hardscape Total</b>	<b>\$881,200</b>
<b>Totals</b>				
Estimated Permit Fees (To be Paid by COJ)				\$1,500
			<b>Project Subtotal =</b>	<b>\$734,036</b>
			<b>30% Contingency =</b>	<b>\$220,211</b>
			<b>Grand Total</b>	<b>\$955,747</b>
<b>Alternates</b>				
1. Install Composite Grating Decking in place of Wood Decking on Fixed Dock	960	SF	\$35	\$33,600
<b>Notes:</b>				
1. This opinion of cost is based on conceptual site plan prepared by Prosser/ATM, dated August 7, 2019				
2. The conceptual site plan is not engineered.				
3. Sizes & quantities are based on assumptions that may or may not represent actual site requirements.				
4. Professional, impact, inspection, and permit application fees are not included, unless otherwise noted.				
5. Marine construction costs are volatile and may likely vary when project is bid. No allowance for price escalation.				
6. Costs are based on the assumption that site access will be provided from adjacent neighborhood.				

# Riverfront Park Fishing Platform Design

**HDR**  
 HOK GROUP  
 1000 17th Street, Suite 1000  
 Denver, CO 80202  
 Phone: 303.733.1000  
 Fax: 303.733.1001  
 www.hdr.com

NO.	DATE	DESCRIPTION
0	06/20/18	100% OWNER SUBMITTAL

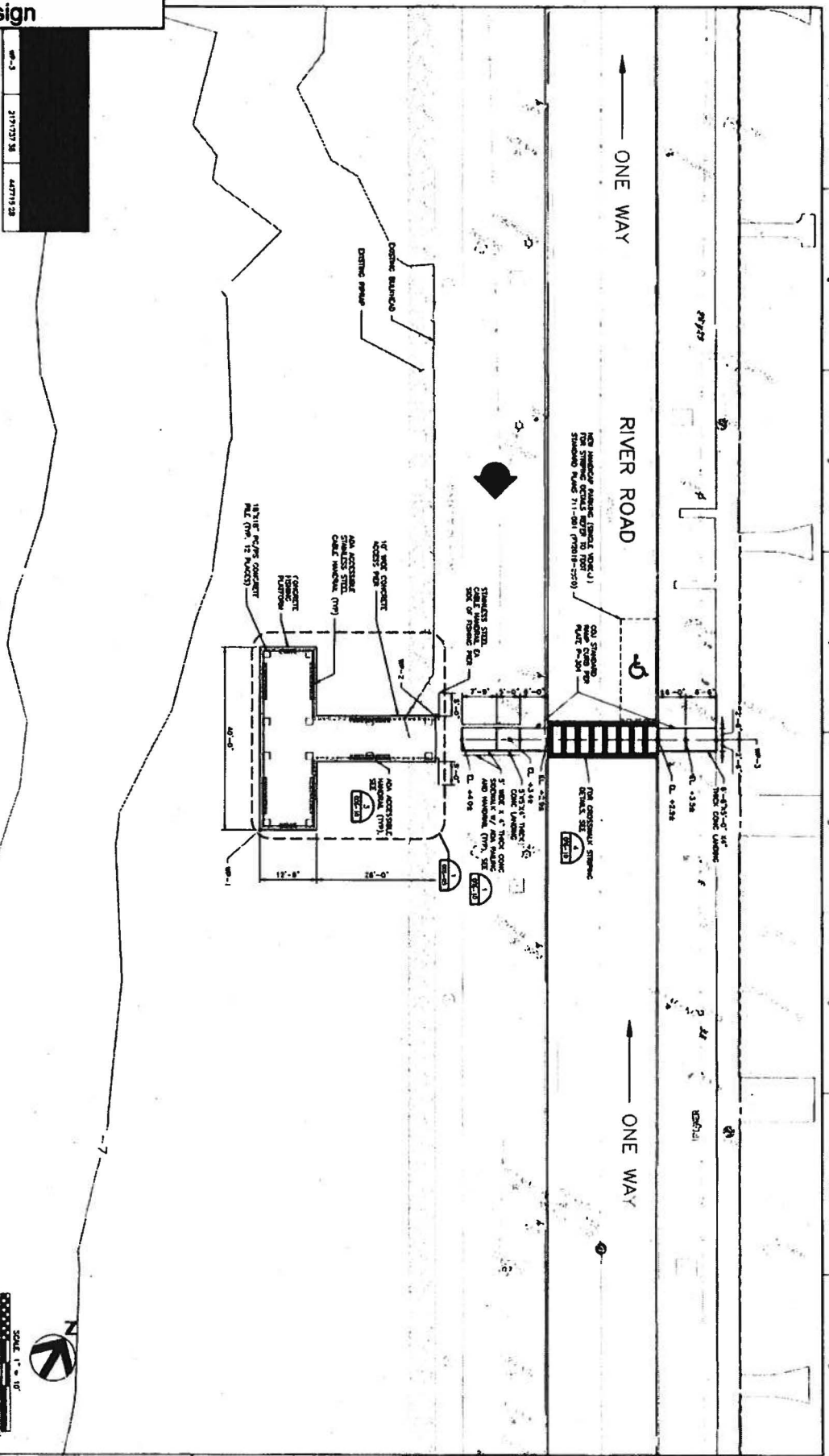
PROJECT MANAGER	H. C. WICKLIFFE
DESIGNED BY	M. HERRON
CHECKED BY	J. REISSER
DRAWN BY	E. SOZA
PROJECT NUMBER	18101123

**NOT FOR CONSTRUCTION**

**CITY OF JACKSONVILLE**  
 Parks & Recreation  
 Division

**RIVERFRONT PARK  
 FISHING PIER AND WATER TAXI DOCK  
 SITE PLAN - FISHING PIER**

DATE: 08S-02



**Bert Maxwell Boat Ramp  
Dredge Design**



**Cut/Fill Summary**

Name	Cut Factor	Fill Factor	2d Area	Cut	Fill	Net
Comparison 2	1.000	1.000	26011.67 Sq. Ft.	2619.86 Cu. Yd.	0.00 Cu. Yd.	2619.85 Cu. Yd.<Cut>
<b>Totals</b>			<b>26011.67 Sq. Ft.</b>	<b>2619.86 Cu. Yd.</b>	<b>0.00 Cu. Yd.</b>	<b>2619.85 Cu. Yd.&lt;Cut&gt;</b>

**Bert Maxwell Boat Ramp Dredging**

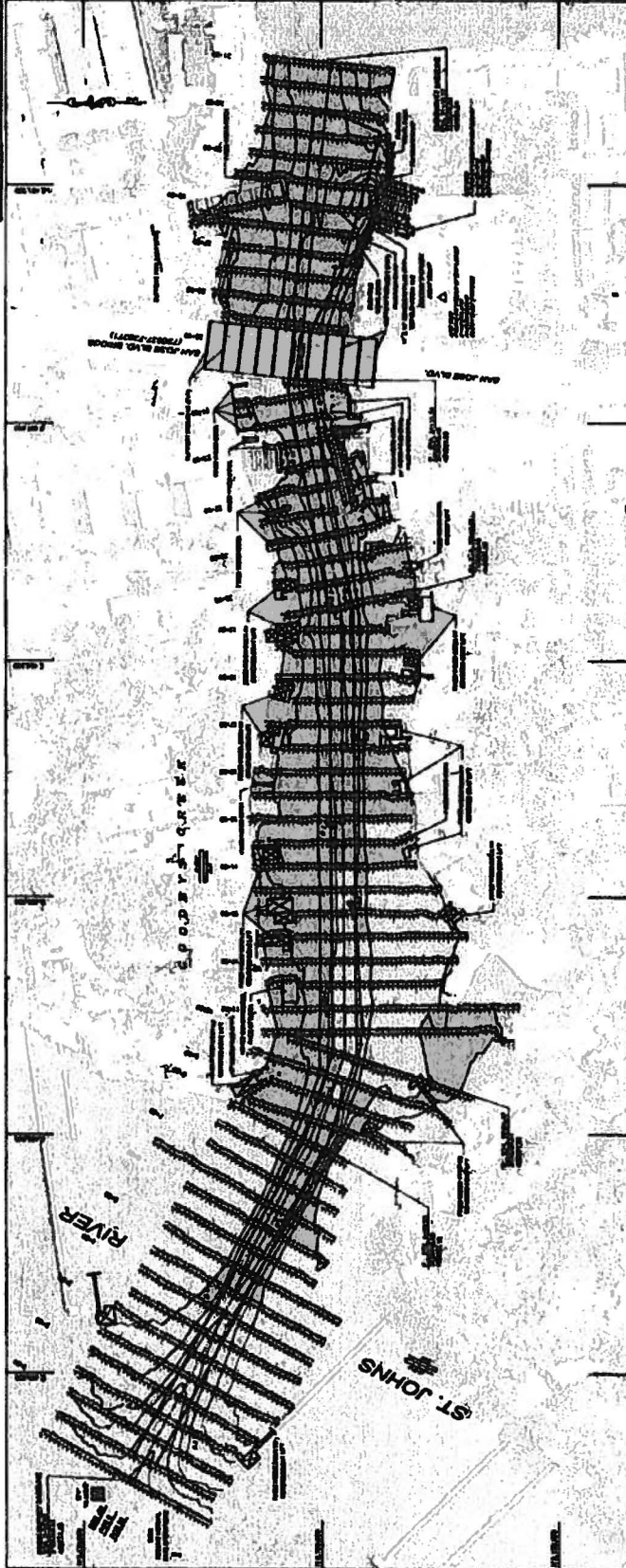
<i>Item</i>	<i>Unit</i>	<i>Quantity</i>	<i>Unit Cost</i>	<i>Cost</i>
1. Mobilization/Demobilization	LS	1.0	\$130,000	\$130,000
2. Environmental Protection and Erosion Control	LS	1.0	\$10,000	\$10,000
3. Dredging and Dredged Material Disposal (Based on May 2019 survey)	CY	9,716	\$45.00	\$437,220
4. Additional Dredging and Dredged Material Disposal (Shoaled material after May 2019 - Est.)	CY	1,388	\$45.00	\$62,460
5. Replace Aids to Navigation Piles (30-ft CCA treated timber piles, barge driven)	EA	11	\$2,000.00	\$22,000
			<b>Subtotal</b>	<b>\$661,680</b>
Contingency for undeveloped details (x 10%)				\$66,168
Baseline construction cost subtotal				\$727,848
Contingency for costs (x 20%)				\$145,570
Total estimated construction costs				\$873,418
Total (rounded to 1,000's)				\$873,000

**Notes:**

1. Estimate excludes costs for administration, permitting, legal fees, additional field investigations, engineering, and construction management.
2. The estimates presented above represent INTERA Incorporated's best judgment as a professional design firm familiar with the type of construction contemplated in this design. INTERA Incorporated has no control over the cost of labor, materials, or equipment; the Contractor's methods of determining bids prices; or competitive bidding, marketing, or negotiating conditions. Accordingly, INTERA Incorporated cannot and does not warrant or represent that actual bids or negotiated prices will not vary from the above estimates.

Goodbys Creek Dredge  
Design

MAP SHOWING A HYDROGRAPHIC SURVEY OF A PORTION OF THE ST. JOHNS RIVER  
AND A PORTION OF GOODBY'S CREEK  
LOCATED IN JACKSONVILLE, DUVAL COUNTY, FLORIDA



DATE	BY	REVISION

Project Title: \_\_\_\_\_  
 City of Jacksonville  
 Duval County  
 Jacksonville, Florida, 32202

Prepared For: \_\_\_\_\_  
 R.S.A.H.  
 8720 Duval Street  
 Jacksonville, Florida, 32202

Prepared By: \_\_\_\_\_  
 R.S.A.H.  
 8720 Duval Street  
 Jacksonville, Florida, 32202

Project No. \_\_\_\_\_

ASCE 1111 License No. \_\_\_\_\_

**PROPOSED DREDGE DESIGN**

- 1. DREDGE DESIGN
- 2. HYDROGRAPHIC SURVEY
- 3. BATHYMETRY CONTOURS
- 4. CHANNEL CENTERLINE
- 5. CHANNEL BOUNDARIES
- 6. CHANNEL CROSS SECTIONS
- 7. CHANNEL WIDTH
- 8. CHANNEL DEPTH
- 9. CHANNEL VELOCITY
- 10. CHANNEL SLOPE
- 11. CHANNEL CURVATURE
- 12. CHANNEL OBSTRUCTIONS
- 13. CHANNEL OBSTRUCTION REMOVAL
- 14. CHANNEL OBSTRUCTION REPLACEMENT
- 15. CHANNEL OBSTRUCTION MAINTENANCE
- 16. CHANNEL OBSTRUCTION REPAIR
- 17. CHANNEL OBSTRUCTION DEMOLITION
- 18. CHANNEL OBSTRUCTION DISMANTLING
- 19. CHANNEL OBSTRUCTION DESTRUCTION
- 20. CHANNEL OBSTRUCTION REMOVAL

**SCALE**

1" = 100'

**GRAPHIC SCALE**

- NOTES:**
- All dimensions are in feet unless otherwise specified.
  - All structures are to be constructed in accordance with the Florida Department of Transportation (FDOT) Standard Specifications for Highway Construction, Section 200, and the Florida Department of Transportation (FDOT) Standard Specifications for Bridge Construction, Section 200.
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**NAVIGATION AIDS PUBLICATION**

Light Transmission	Color	Character	Location
1.0	White	Fixed	St. Johns River
1.5	White	Flashing	Goodby's Creek
2.0	White	Flashing	St. Johns River
2.5	White	Flashing	Goodby's Creek
3.0	White	Flashing	St. Johns River
3.5	White	Flashing	Goodby's Creek
4.0	White	Flashing	St. Johns River
4.5	White	Flashing	Goodby's Creek
5.0	White	Flashing	St. Johns River
5.5	White	Flashing	Goodby's Creek
6.0	White	Flashing	St. Johns River
6.5	White	Flashing	Goodby's Creek
7.0	White	Flashing	St. Johns River
7.5	White	Flashing	Goodby's Creek
8.0	White	Flashing	St. Johns River
8.5	White	Flashing	Goodby's Creek
9.0	White	Flashing	St. Johns River
9.5	White	Flashing	Goodby's Creek
10.0	White	Flashing	St. Johns River

**HYDROGRAPHIC SURVEY RESULTS**

Station	Water	Shore	Bottom
10+00	8.2	5.5	Gravel, Shell
10+25	8.2	5.5	Gravel, Shell
10+50	8.2	5.5	Gravel, Shell
10+75	8.2	5.5	Gravel, Shell
11+00	8.2	5.5	Gravel, Shell
11+25	8.2	5.5	Gravel, Shell
11+50	8.2	5.5	Gravel, Shell
11+75	8.2	5.5	Gravel, Shell
12+00	8.2	5.5	Gravel, Shell
12+25	8.2	5.5	Gravel, Shell
12+50	8.2	5.5	Gravel, Shell
12+75	8.2	5.5	Gravel, Shell
13+00	8.2	5.5	Gravel, Shell
13+25	8.2	5.5	Gravel, Shell
13+50	8.2	5.5	Gravel, Shell
13+75	8.2	5.5	Gravel, Shell
14+00	8.2	5.5	Gravel, Shell
14+25	8.2	5.5	Gravel, Shell
14+50	8.2	5.5	Gravel, Shell
14+75	8.2	5.5	Gravel, Shell
15+00	8.2	5.5	Gravel, Shell
15+25	8.2	5.5	Gravel, Shell
15+50	8.2	5.5	Gravel, Shell
15+75	8.2	5.5	Gravel, Shell
16+00	8.2	5.5	Gravel, Shell
16+25	8.2	5.5	Gravel, Shell
16+50	8.2	5.5	Gravel, Shell
16+75	8.2	5.5	Gravel, Shell
17+00	8.2	5.5	Gravel, Shell
17+25	8.2	5.5	Gravel, Shell
17+50	8.2	5.5	Gravel, Shell
17+75	8.2	5.5	Gravel, Shell
18+00	8.2	5.5	Gravel, Shell
18+25	8.2	5.5	Gravel, Shell
18+50	8.2	5.5	Gravel, Shell
18+75	8.2	5.5	Gravel, Shell
19+00	8.2	5.5	Gravel, Shell
19+25	8.2	5.5	Gravel, Shell
19+50	8.2	5.5	Gravel, Shell
19+75	8.2	5.5	Gravel, Shell
20+00	8.2	5.5	Gravel, Shell
20+25	8.2	5.5	Gravel, Shell
20+50	8.2	5.5	Gravel, Shell
20+75	8.2	5.5	Gravel, Shell



**Goodby's Creek Channel Maintenance Dredging**

<i>Item</i>	<i>Unit</i>	<i>Quantity</i>	<i>Unit Cost</i>	<i>Cost</i>
1. Mobilization/Demobilization	LS	1.0	\$75,000	\$75,000
2. Environmental Protection and Erosion Control	LS	1.0	\$10,000	\$10,000
3. Dredging and Dredged Material Disposal (Based on May 2019 survey)	CY	7,171	\$50.00	\$358,550
4. Additional Dredging and Dredged Material Disposal (Shoaled material after May 2019 - Est.)	CY	1,434	\$50.00	\$71,710
			<b>Subtotal</b>	<b>\$515,260</b>
Contingency for undeveloped details (x 10%)				\$51,526
Baseline construction cost subtotal				\$566,786
Contingency for costs (x 20%)				\$113,357
Total estimated construction costs				\$680,143
Total (rounded to 1,000's)				\$680,000

**Notes:**

1. Estimate excludes costs for administration, permitting, legal fees, additional field investigations, engineering, and construction management.
2. The estimates presented above represent INTERA Incorporated's best judgment as a professional design firm familiar with the type of construction contemplated in this design. INTERA Incorporated has no control over the cost of labor, materials, or equipment; the Contractor's methods of determining bids prices; or competitive bidding, marketing, or negotiating conditions. Accordingly, INTERA Incorporated cannot and does not warrant or represent that actual bids or negotiated prices will not vary from the above estimates.