

PALM BEACH COUNTY
BOARD OF COUNTY COMMISSIONERS
AGENDA ITEM SUMMARY

Meeting Date:	October 21, 2025	☐ Consent	☐ Regular
		☐ Workshop	☐ Public Hearing
Department:	Engineering and Public Works Department		
Submitted By:	Engineering and Public Works Department		
Submitted For:	Roadway Production Division		

I. EXECUTIVE BRIEF

Motion and Title: Staff recommends motion to approve: Supplement No. 4 (Supplement) in the amount of \$999,052.78 to the contract (R2023-1512) dated October 17, 2023 (Contract) with Hardesty & Hanover, LLC (HHL) for the George Bush Boulevard Bridge Replacement over the Intracoastal Waterway (ICWW) (Project).

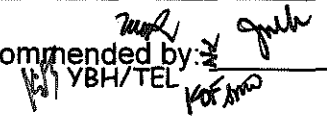
SUMMARY: The George Bush Boulevard Bridge is scheduled to be replaced and that design is currently underway. Since the design process and funding is expected to take several years to complete, it is necessary to take additional steps to ensure the bridge remains operational in the meantime. Approval of this Supplement will provide the professional services necessary for final design and permitting to maintain the existing bridge and ensure its continued functionality until the full bridge replacement for the Project. The original contract focused on the overall scope development, survey, and data gathering. Supplement No. 1 contracted HHL to identify and apply for potential funding sources, and is ongoing. Supplement No. 2 provided for additional specialized traffic count data required for the project development and environmental (PD&E) study. Supplement No. 3 is for analyzing the data gathered, preparing a PD&E, which is often required when applying for grants, and preparing design plans for construction. Supplement No. 4 will finalize the design plans for repairing the existing bridge, ensuring its continued functionality until the full replacement, currently under design. This Project was presented to the Goal Setting Committee on July 6, 2022 and the Committee established an Affirmative Procurement Initiative (API) of a 10% minimum mandatory Small Business Enterprise (SBE) participation. HHL committed 5.25% SBE participation for this Supplement. To date, the overall SBE participation achieved on this Contract is 19.45%. This Contract is subject to emergency ordinance R2025-014 approved by the Board of County Commissioners (BCC) on June 3, 2025. **This Project is included in the Five-Year Road Program. Districts 4 and 7 (YBH)**

Background and Justification: On October 17, 2023, the BCC approved the Contract with HHL to provide the professional services required for the Project. The fee, as detailed in Exhibit B of the attached Supplement, has been negotiated as just and reasonable compensation as follows:

Basic Services (Lump Sum)	\$581,580.34	(Structural Plans, Medium Span Bridge, Structural Steel Bridge Movable Span and Bridge Monitoring)
Optional Services (Not to Exceed)	<u>\$417,472.44</u>	(Post Design Services)
Total:	\$999,052.78	

After reviewing the attached Supplement and finding it in proper order, the Engineering and Public Works Department recommends BCC approval.

- Attachments:**
- 1. Location Map
 - 2. Supplement No. 4 with Exhibits A, B, C, D and Ebix Insurance Compliance (2)

Recommended by: 		9/26/25
YBH/TEL	County Engineer	Date
Approved By: 		10/2/25
	Deputy County Administrator	Date

II. FISCAL IMPACT ANALYSIS

A. Five Year Summary of Fiscal Impact:

Fiscal Years	2026	2027	2028	2029	2030
Capital Expenditures	\$1,114,053	-0-	-0-	-0-	-0-
Operating Costs	-0-	-0-	-0-	-0-	-0-
External Revenues	-0-	-0-	-0-	-0-	-0-
Program Income (County)	-0-	-0-	-0-	-0-	-0-
In-Kind Match (County)	-0-	-0-	-0-	-0-	-0-
NET FISCAL IMPACT	\$1,114,053	-0-	-0-	-0-	-0-
# ADDITIONAL FTE POSITIONS (Cumulative)	-0-	-0-	-0-	-0-	-0-

Is Item Included in Current Budget?

Yes ☒ No ☐

Is this item using Federal Funds?

Yes ☐ No ☒

Is this item using State Funds?

Yes ☐ No ☒

Budget Account No:

Fund 3500 Dept 361 Unit 1989 Object 6505

Recommended Sources of Funds/Summary of Fiscal Impact:

Transportation Improvmt Fund/George Bush Boulevard Bridge over ICWW

Brief Description: Supplement No. 4 to a project contract

Supplement No. 4

• Basic Services	\$ 581,580.34
• Optional Services	\$ 417,472.44
Total Supplement No. 4	\$ 999,052.78

Estimated Staff Costs

• Roadway Production	\$ 60,000.00
• Roadway Production: Right-of-Way	\$ 20,000.00
• Survey	\$ 10,000.00
• Traffic	\$ 25,000.00
Total Staff Costs	\$ 115,000.00

Fiscal Impact \$1,114,052.78

C. Departmental Fiscal Review:

Danny Ramlal

III. REVIEW COMMENTS

A. OFMB Fiscal and/or Contract Dev. and Control Comments:

Shamir 9/29/2025
MO 9/29 OFMB 9/29

Frankie Mack 10/1/25
Contract Dev. and Control 26/10-1-25

B. Approved as to Form and Legal Sufficiency:

MBH 10/2/25
Assistant County Attorney

C. Other Department Review:

Department Director

This summary is not to be used as a basis for payment.

PROJECT LOCATION

George Bush Boulevard Bridge Replacement over the
Intracoastal Waterway (ICWW)
Palm Beach County Project #2022506



LOCATION MAP

ATTACHMENT 1

SUPPLEMENT NO. 4 TO THE
PROJECT CONTRACT

Project Name: **George Bush Boulevard Bridge Replacement over the ICWW**

Project No: **2022506**

Commission District No.: **4 & 7**

	SBE
Participation for this authorization	5.25%
Participation to date for this Contract	19.45%
Contract Commitment	13.55%
This authorization is under the EBO Ordinance.	

PALM BEACH COUNTY
BOARD OF COUNTY COMMISSIONERS

Account No.: **3500-361-1989-6505**

Supplement No. 4 to the Project Contract dated October 17, 2023 (R2023-1512) (CONTRACT), between the COUNTY and the CONSULTANT identified herein is for the Additional Services described in **EXHIBIT A** and **EXHIBIT B** for this Supplement.

1. CONSULTANT: Hardesty & Hanover, LLC
2. Address: 3250 West Commercial Boulevard, Suite 348 Fort Lauderdale, Florida 33309
3. CONSULTANT shall begin work promptly on the requested Services, per the schedule attached as part of **EXHIBIT A**.
4. Scope of Services to be provided by CONSULTANT: Provide professional engineering services to Palm Beach County for the George Bush Boulevard Bridge Replacement over the ICWW project. Finalize the repair and design plans for the existing bridge, ensuring its continued functionality until the full replacement, currently under design in accordance with the attached **EXHIBIT A** dated May 23, 2025.
5. The compensation to be paid CONSULTANT for providing the requested services as detailed in **EXHIBIT B** shall be:

☒ Basic Services in a lump sum fee of	\$ 581,580.34
☒ Optional Services capped at	\$ 417,472.44
Totaling	\$ 999,052.78

☒ OEBO Schedules 1 & 2 **EXHIBIT C**
☒ Project History **EXHIBIT D**
6. All terms of the CONTRACT, shall apply to this Supplement.

This Contract, including all Schedules, Forms, and attachments, is subject to the County Emergency Ordinance 2025-014, approved by the BCC on June 3, 2025. As a result, the M/WBE participation will not be enforced.

ATTACHMENT 2

SUPPLEMENT NO. 4 TO THE
PROJECT CONTRACT

IN WITNESS WHEREOF, this Supplement is accepted as of the date signed by the COUNTY below, subject to the terms and conditions of the aforementioned CONTRACT.

CONSULTANT: Hardesty & Hanover,
LLC

Federal ID: 59-3221706

Signed: _____

Typed Name: Michael J. Sileno, P.E.

Title: Managing Member

Date: _____

9/8/25

(Corporate Seal)



ATTEST WITNESS:

Signed: _____

Typed Name: SABRINA SANCHEZ

Title: Director of Operations Support

Date: _____

9/8/25

COUNTY:

Approved as to Terms and Conditions

By: _____

Typed Name: Morton L. Rose, P.E.

Title: Division Director

SUPPLEMENT NO. 4 TO THE
PROJECT CONTRACT

{SIGNATURE PAGES CONTINUED}

COUNTY: **Palm Beach County**, a Political
Subdivision of the State of Florida, by and
through its Board of County Commissioners

Signed: _____

Typed Name: Maria G. Marino

Title: Mayor

Date: _____

ATTEST:

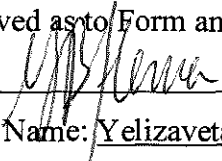
Michael A. Caruso

Clerk of the Circuit Court & Comptroller

By: _____

Deputy Clerk

Approved as to Form and Legal Sufficiency

By:  _____

Typed Name: Yelizaveta B. Herman

Title: Assistant County Attorney

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3250 W. Commercial Blvd, Suite 348
Fort Lauderdale, FL 33309
T: 954.835.9119

Rev. 05 Date: May 23, 2025
Rev. 04 Date: May 21, 2025
Rev. 03 Date: May 20, 2025
Rev. 02 Date: May 8, 2025
Rev. 01 Date: May 6, 2025
April 14, 2025

Kristine Frazell-Smith, P.E.
Local Roads Section Manager
Palm Beach COUNTY
2300 North Jog Road
3rd Floor, West Wing
West Palm Beach, FL 33411

OK! Sandra Milam Reprie
5/27/2025
Scope & Fee revisions okay
[Signature] *5/27/25*

**Re: George Bush Boulevard Bridge Replacement over the ICWW, Palm Beach County Project
No. 2022506 - Supplement No. 4 – Professional Services for “Mid-Term” Bridge Repairs**

Final Design and Plans intended to fully restore the existing bridge to feasibly reliable condition to remain operational until its proposed replacement in approximately ten years. The Mid-Term Repair will address the mechanical systems, electrical systems, and structural elements.

All items listed below apply to both leaves unless noted otherwise.

Existing Bascule Span

- Replace the open geartrain (up to rack and pinion) with a new enclosed parallel shaft gear reducer with output shaft differential. Existing intermediate gearset adjacent to rack and pinion is to be reused.
- Replace existing motor brakes with new and install new machinery brakes at reducer output shafts. Adjust time set delays to minimize shock loading of machinery.
- Replace mismatched pinion at far leaf with new pinion having correct geometry.
- Install new floating shafts and fixed-rigid gear type shaft couplings between reducer output shafts and existing intermediate gearset. Machine in place existing intermediate shaft ends to accept new couplings.
- Install new NEMA squirrel-cage inverter duty span drive motors with variable frequency drives (VFDs).
- Furnish and install new controls to operate new drives and brakes and hold leaves in position while brakes set (in both the open and closed positions).
- Install new grid type couplings between motor shafts and reducer input shafts.
- Replace existing flat track and curved tread with new flat track and steel subframe assembly and new segmental curved tread assembly. Re-align and re-level track and tread assemblies.

- Re-align the movable leaves transversely as part of the work detailed above to avoid contact between the side of the movable leaf and the fixed structure at roadway level.
- Re-shim racks to level with new flat track and to improve pitch alignment with pinions in conjunction with flat track and curved tread work detailed above.
- Check and correct areas of high pressure at rack and pinion sets utilizing bluing compound.
- Replace existing live load shoes with new LLS that allow shimming.
- Repair open grid welds to MG spacer bar (1 total).
- Clean and paint rear joint traffic plates (2 total).
- Remove concrete from failed patch in left sidewalk and re-patch area near traffic plate over Bascule Pier 4.
- Apply sealant on cracked deck top area adjacent to the traffic plate over Bascule Pier 4.
- Clean and paint corrosion on diagonal bracing members and fasteners at the base of the columns inside the bascule piers (5 total).
- Clean and paint corrosion on SW column near leaf and SE and NE columns far leaf (3 total).
- Clean and coat rebar with zinc rich epoxy and patch spalls in the bascule piers.
- Clean and overcoat all bascule span structural steel.
- Clean and overcoat steel flanking spans structural steel.
- Clean and coat exposed rebar in the far leaf counterweight with zinc rich epoxy.
- Re-balance the near and far leaves within specifications after completion of rehabilitation improvements.
- Develop a leaf jacking system and tie-back system as required to perform the work detailed above.
- Develop jaw lock modification details.

Existing Approach Spans

- Repair spall in the right sidewalk edge at End Bent 1 (1 sf).
- Clean and coat steel and patch spall in deck underside of Span 4 in Bay 4-1 (4 sf).
- Repair torn joint seal over End Bent 1 (4 ft).
- Backfill and stabilize undermining at the cap at End Bent 6 (34 ft).
- Seal gap between the cap and slope pavement at the end bents (1 sf).

Monthly Operating Machinery Monitoring – Strain Gauge Testing

- Perform monitoring of the two bascule leaves of George Bush Boulevard. H&H will perform strain gauge testing to monitor the current unbalanced condition and strain output of the electro-mechanical operating system for both the north and south bascule leaves. Monitoring will be performed once per month from August 2025 – December 2026.
- Develop a summary memorandum of findings and recommendations for each monthly strain gauge test.

SCOPE OF BASIC SERVICES

1.0 General Tasks – H&H and Masse Consulting

The CONSULTANT shall provide Public Involvement and Project Manager Coordination Meetings.

- 1.0 Develop vehicular detour plan
- 1.8 Railroad, Transit, and/or Airport Coordination
- 1.9 Project Managers Coordination Meetings
- 1.10 Contract Maintenance and Project Documentation

6.0 Permits & Environmental – Masse Consulting

- 6.3 Analyze Existing Permits
- 6.4 Complete and Submit Permit Applications
- 6.7 Attend Technical Meetings

7.0 Utilities – Masse Consulting

- 7.1 Draft Existing Utility Facilities
- 7.2 Prepare Utility Conflict Matrix
- 7.3 Identify Conflict Resolutions
- 7.4 Meetings

19.0 Structures Plans – H&H

The CONSULTANT shall analyze, design, and develop contract documents for structures in accordance with applicable provisions.

- 19.1 Key Sheet
- 19.2 Index of Drawings
- 19.6 General Notes and Bid Items
- 19.10 Existing Bridge Plans
- 19.12 Quantities
- 19.13 Cost Estimate
- 19.14 Technical Special Provision and Modified Special Provisions
- 19.17 Field Review
- 19.18 Technical Meetings

22.0 Medium Span Concrete Bridge – H&H

The CONSULTANT shall prepare plans for Medium Span Concrete Bridge that include the following:

- 22.3 General Plan and Elevation
- 22.10 End Plan and Elevation
- 22.29 Superstructure Section

24.0 Movable Span Bridge – H&H

The CONSULTANT shall prepare plans for Movable Span Bridge that include the following:

Bascule Pier Dimensions - Detailing

- 24.10 Pier Plan Views
- 24.12 Pier Sections

Bascule Leaf Detailing

- 24.41 Framing Plan
- 24.43 Typical Section

Mechanical Design

- 24.60 Final Power Requirements

Mechanical Drive Design

- 24.64 Drive Shafts, Couplings, Keys, Bearings and Supports
- 24.65 Rack & Pinion, Bearings and Supports
- 24.66 Drive Train
- 24.67 Motor Brakes & Machinery Brakes

Machinery Detailing

- 24.69 Machinery Layout
- 24.70 Machinery Elevation
- 24.71 Machinery Section
- 24.73 Drive Details

Electrical Design

- 24.75 Load Analysis
- 24.76 Power Distribution
- 24.77 Drive Equipment
- 24.78 Bridge Controls
- 24.79 Grounding
- 24.80 Lightning and Surge Suppression

Electrical Detailing

- 24.82 Electrical Plan and Elevation
- 24.83 Electrical Symbols and Abbreviations
- 24.84 Single/Three Line Diagram (65% - Final)
- 24.86 Wire and Conduit Schedules and Diagrams
- 24.87 Control Desk/Panel Layout
- 24.88 Control Schematics
- 24.94 Miscellaneous Details

Bridge Monitoring

- 24.103 Preparation

- 24.104 Field Testing
- 24.105 Summary Memo

SCOPE OF OPTIONAL SERVICES

The CONSULTANT shall provide post design services for the duration of construction. Post design services shall include the following: Plan revisions, shop drawing reviews, request for information resolution, attend progress meetings, attend shop test, and conduct site reviews.

Optional Services – Post Design Services

- 1.7 Post Design Services
- 1.9 Post Design Breakdown

The CONSULTANT shall provide monthly operating machinery monitoring – Strain Gauge Testing and will include the following:

- Perform monitoring of the two bascule leaves of George Bush Bloulevard. H&H will perform strain gauge testing to monitor the current unbalanced condition and strain output of the electro-mechanical operating system for both the north and south bascule leaves. Monitoring will be performed once per month from January 2027 – December 2027.
- Develop a summary memorandum of findings and recommendations for each monthly stain gauge test.

Optional Services – Bridge Monitoring

- 24.103 Preparation
- 24.104 Field Testing
- 24.105 Summary Memo

ANTICIPATED REHABILITATION PHASE SCHEDULE OF KEY ACTIVITIES	
Date	Milestone
7/24/2025	Anticipated NTP Design Phase
8/5/2025	Kickoff Meeting
8/7/2025	Data Collection
8/11/2025	Prepare 35% Submittal
8/29/2025	Submit 35% Submittal
9/12/2025	County Review Phase I Engineering Package
9/29/2025	Prepare 65% Plans
11/13/2025	Prepare & Submit Technical Special Provision
11/13/2025	Submit 65% Plans
11/27/2025	County Review Phase II Engineering package
12/15/2025	Prepare 96% Plans
12/15/2025	Prepare Specification Package
1/22/2026	Submit 96% Plans
2/5/2026	County Review Phase III Engineering package
3/9/2026	Prepare Final Plans
4/16/2026	Submit Final Plans
4/30/2026	County Review Phase IV Engineering package
7/16/2026	Letting Date

Respectfully,

Name

Title

Steve Hedge, PE

Project Manager

Attachments: Please see attached detailed staffhour sheets.

Estimate of Work Effort and Cost

Name of Project: George Bush Boulevard Bridge over ICWW Bridge Replacement
PBC Project Number: 2022506

Consultant Name: Hardesty & Hanover, LLC
Consultant Number:

MID-TERM REPAIRS

Date: 5/21/2025

Task Description		Total Staff Hours	Staff Categories								Staff Hours By Activity	Salary Cost By Activity	Average Rate Per Task
			Principal Engineer	Project Manager 3	Chief Engineer 1	Senior Engineer 1	Senior Engineer 2	Engineer 1	Engineer 2	Engineering Intern			
			\$117.21	\$91.35	\$85.44	\$72.95	\$75.70	\$49.75	\$63.00	\$37.97			
BASIC SERVICES													
1	General Task	124	6	62	0	19	12	12	6	7	124	\$9,902.20	\$79.86
19	Structures Plans	262	12	25	13	52	52	27	40	41	262	\$17,950.81	\$68.51
22	Medium Span Concrete Bridge	34	2	2	4	4	4	6	6	6	34	\$2,257.80	\$66.41
24	Movable Span	2000	100	200	100	400	400	200	300	300	2000	\$138,236.00	\$69.12
24	Bridge Monitoring (August 2025 - December 2026)	527	0	63	0	0	0	279	185	0	527	\$31,290.30	\$59.37
Total Staff Hours (Basic Services)		2947.0	120.0	352.0	117.0	475.0	468.0	524.0	537.0	354.0	2947.0	\$199,637.11	\$ 67.74
Total Staff Cost (Basic Services)			\$14,065.20	\$32,155.20	\$9,996.48	\$34,651.25	\$35,427.60	\$26,069.00	\$33,831.00	\$13,441.38			
OPTIONAL SERVICES													
1	Post Design Services	1588.0	399	232	232	397	149	149	0	0	1558.0	\$135,435.27	\$ 86.93
2	Bridge Monitoring (January 2027 - December 2027)	372.0	0	45	0	0	0	197	130	0	372.0	\$22,101.50	\$ 59.41
Total Staff Hours (Optional Services)		1960.0	399.0	277.0	232.0	397.0	149.0	346.0	130.0	0.0	1930.0	\$157,536.77	\$ 81.63
Total Staff Cost (Optional Services)			\$46,766.79	\$25,303.95	\$19,822.08	\$28,961.15	\$11,279.30	\$17,213.50	\$8,190.00	\$0.00			

EBO SBE Calculation for this Fee Summary		SBE \$	Non-SBE \$
PRIME			\$946,510.78
MASSE CONSULTING SERVICES, LLC		\$52,542.00	
TOTAL		\$ 52,542.00	\$ 946,510.78

Basic Services:	
Salary Related Costs:	\$199,637.11
Contract Multiplier	2.65
Subtotal Basic Services (Prime Consultant):	\$529,038.34
Basic Services (MASSE CONSULTING SERVICES, LLC)	\$52,542.00
Subtotal Basic Services (Subconsultants)	\$52,542.00
Basic Services Total:	\$581,580.34

Optional Services:	
Salary Related Costs:	\$157,536.77
Contract Multiplier	2.65
Subtotal Optional Services (Prime Consultant):	\$417,472.44
Optional Services Total:	\$417,472.44

Grand Total Estimated Fees: \$999,052.78

Project Activity 1: General Tasks						
Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
1.8	Railroad, Transit, and/or Airport Coordination	LS	1	8	8	Complete Aeronautical Study - FAA notification
1.9	Project Manager Coordination Meetings	LS	1	52	52	See list below
1.10	Contract Maintenance and Project Documentation	LS	1	64	64	16 Hrs. initial setup plus 4 Hrs/month for 12 months = 64 Hrs.
1. General Tasks Total					124 ✓	
1.9 - List of Project Manager Meetings						
		Units	No of Units	Hours/ Unit	Total Hours	Comments
	Environmental	EA	6	2	12	2 Eng. X 6 meetings x 1 Hrs. / meeting = 12 Hrs.
	Structures	EA	4	2	8	2 Eng. X 4 meetings x 1 Hrs. / meeting = 8 Hrs.
	Phase Reviews	EA	4	4	16	Includes travel time for in person meeting
	Field Reviews	EA	2	8	16	PM Site Visit = 2 Reviews x 8 Hrs./Review = 16 Hrs.
	Total Project Manager Meetings		16		52 ✓	Total PM Meeting Hours carries to Task 1.9 above

Project Activity 19: Structural Plans						
Task No.	Task	Units	Design and Production Staffhours			Comments
			No. of Units	Hours per Unit or Sheet	Total	
19.1	Key Sheet	Sheet	1	4	4	Prepare key sheet.
19.2	Index of Drawings	Sheet	1	8	8	Update Index of Drawings.
19.6	General Notes and Bid Items	Sheet	1	8	8	Develop general notes and bid item notes.
19.10	Existing Bridge Plans	LS	1	4	4	Label & incorporate existing bridge plans.
19.12	Quantities	EA	4	6	24	Determine structures pay items and quantities update with each submittal: 35%, 65%, 96%, and Final
19.13	Cost Estimate	EA	4	6	24	Prepare cost estimate with each submittal: 35%, 65%, 96%, and Final
19.14	Technical Special Provisions and Modified Special Provisions	LS	1	120	120	Technical Special Provisions T465 Movable Bridges (40 hours) T468 Mechanical Construction For Movable Bridges (40 hours) T508 Electrical Construction For Movable Bridges (40 hours)
19.17	Field Reviews	EA	2	24	48	2 Site Visits / 3 Engineers each visit / 8 hrs. each Engineer 3x8x2= 48 hrs.
19.18	Technical Meetings	LS	1	22	22	See list below
19. Structures - Structural Plans Total					262 ✓	
Technical Meetings		Units	No of Units	Hours/ Unit	Total Hours	Comments
35%, 65%, 96 & Final Comment Review		EA	4	2	8	4 meetings for each review comment @ 2 hrs. each PM will attend meeting
Local Governments (cities, counties)		EA	4	2	8	4 meetings for each review comment @ 2 hrs. each PM will attend meeting
Subtotal Technical Meetings					16	
Progress Meetings		EA	3	2	6	3 meetings for progress of plans @ 2 hrs. consultant PM and PBC PM will attend meetings.
Total Meetings					22 ✓	Total Technical Meetings (carries to Tab 19.18)

Estimate of Work Effort and Cost
Project Activity 22: Medium Span Concrete Bridge

Task No.	Task	Units	No. of Units	Hours/ Unit or Sheet	Total Hours	Comments
	General Layout Design and Plans					
22.3	General Plan and Elevation	Sheet	1	5	5	
	End Bent Design and Plans					
22.10	End Bent Plan and Elevation	Sheet	1	24	24	Plan and Elevation to show backfilling at End Bent 6.
	Superstructure Deck Design and Plans					
22.29	Superstructure Section	Sheet	1	5	5	Typical section at approach spans.
22. Medium Span Concrete Bridge Total					34✓	

Project Activity 24: Movable Span Bridge

Task No.	Task	Unit	No. of Units	Hours/ Unit or Sheet	Total Hours	Comments
Bascule Pier Dimensions - Detailing						
24.10	Pier Plan Views	Sheet	1	22	22	Plan view at machinery level showing elements to be repaired inside the bascule piers.
24.12	Pier Sections	Sheet	1	22	22	Transverse section showing elements to be repaired inside the bascule piers.
Bascule Leaf Detailing						
24.41	Framing Plan	Sheet	1	32	32	Provide structural framing layout depicting the location and plan dimensions of the main girders, bracing, and floor beam (all members will be cleaned and coated).
24.43	Typical Section	Sheet	1	18	18	Provide typical section at bascule span.
Mechanical Design						
24.60	Final Power Requirements	LS	1	12	12	Calculate operating resistance requirement for planned machinery modifications. Includes calculations for auxiliary emergency drive.
Mechanical Drive Design						
24.64	Drive Shafts, Couplings, Keys, Bearings and Supports	LS	1	58	58	Size new Floating Shafts (8 hours) Reducer input/output shafts (8 hours) Proposed modifications to existing pinion shafts (32 hours) New supports for connection to existing structural steel (10 hours)
24.65	Rack & Pinion, Bearings and Supports	LS	1	132	132	Check existing rack assemblies for re-use (60 hours) Check existing pinion assemblies and connections for re-use (72 hours) (These checks involve an evaluation of the existing gear geometry and material and compare how they perform with the loads from the new machinery.)
24.66	Drive Train	LS	1	100	100	Size new primary reducer (44) Size new drive motor(s), (24) Size new supports for connection to existing structural steel. (32)
24.67	Motor Brakes & Machinery Brakes	LS	1	68	68	Size new motor brakes (24 hrs) Size new machinery brakes (24 hrs) Size and detail new supports for connection to existing structural steel. (20 hrs)
Machinery Detailing						
24.69	Machinery Layout	Sheet	1	40	40	Plan and Elevation Views of movable leaf showing proposed machinery rehabilitation.
24.70	Machinery Elevation	Sheet	1	40	40	Elevation view showing proposed drive machinery rehabilitation. Callouts for all drive machinery components to be replaced and installed.
24.71	Machinery Section	Sheet	1	40	40	Section view(s) showing proposed drive machinery rehabilitation to clarify assemblies.
24.73	Drive Details	Sheet	10	40	400	(1) Sheet for overall Plan view of complete drive machinery. (1) Sheet for primary reducer details. (1) Sheet for span drive motor and motor brake details. (1) Sheet for output floating shafts, shaft couplings and keys, and machinery brake details. (1) Sheet for mismatched pinion replacement details and intermediate gear shaft machining details. (2) Sheets for new flat track and subframe assembly and new segmental curved tread assembly details. (1) Sheet for details of new machinery supports. (1) Sheet to detail re-alignment of machinery. (1) Sheet for movable leaf jacking and tie back system details.
Electrical Design						

Task No.	Task	Unit	No. of Units	Hours/ Unit or Sheet	Total Hours	Comments
24.75	Load Analysis	LS	1	24	24	Calculation of new and existing electrical loads for design and detailing covered in subsequent tasks. Includes load, voltage drop, and short circuit calculations.
24.76	Power Distribution	LS	1	60	60	Calculation and sizing of power distribution equipment (OCPDs, disconnects, starters, etc.) for new drive equipment (see following task) and brakes and existing gates and panels. Includes check of existing system to confirm suitability to accommodate added load. No impacts expected to existing power distribution.
24.77	Drive Equipment	LS	1	40	40	Calculation and sizing of new drives and associated equipment (braking resistors, OCPDs, disconnects, enclosure, etc.) to operate span motors at the loads specified by the mechanical design.
24.78	Bridge Controls	LS	1	160	160	Design of relay logic controls and safety interlocks to coordinate the traffic signals, traffic gates, motor and machinery brakes, and span motors. Includes sequencing of near and far leaves for jaw locks. Overall reduced complexity compared to FDOT standard of care due to lack of span locks and County preferences regarding PLC and control desk.
24.79	Grounding	LS	1	24	24	Sizing and design of grounding system for new equipment only.
24.80	Lightning and Surge Suppression	LS	1	36	36	Design of control house lightning protection system--including SPDs--to safeguard new equipment.
Electrical Detailing						
24.82	Electrical Plan and Elevation	Sheet	1	14	14	Overall plan and elevation view of bridge with callouts for new equipment to clarify the general scope visually.
24.83	Electrical Symbols and Abbreviations	Sheet	1	10	10	Show all symbols and abbreviations used in the plans.
24.84	Single/Three Line Diagram	Sheet	1	30	30	Single-Line Diagram (or Three-Line Diagram as appropriate) showing the existing electric service, generator, ATS, and lighting panels as well as the new starters and drives. Includes design for layout/compartimentalization of power distribution and drive equipment in the switchboard and other panels as appropriate.
24.86	Wire and Conduit Schedules and Diagrams	Sheet	4	24	96	Design and detailing of the conduit and conductor system, including sizing of conduit for wire fill. Consists of the following 4 sheets: Conduit Diagram (1 of 2) Conduit Diagram (2 of 2) Conduit and Cable Schedule (1 of 2) Conduit and Cable Schedules (2 of 2)
24.87	Control Desk/Panel Layout	Sheet	3	24	72	Design and detailing of the control system panels. Consists of the following 3 sheets: Control Desk Layout Control Desk Details Control Panel Layout (Includes Drives)
24.88	Control Schematics	Sheet	15	24	360	Prepare a complete set of control schematics to integrate the existing and new equipment, control desk, limit switches, etc. Estimated to consist of 15 sheets.
24.94	Miscellaneous Details	Sheet	5	18	90	Prepare the miscellaneous layout and detail sheets not covered under other tasks as noted below. "Details" sheets include multiple details and layouts associated with the system described. Control Room Equipment Layout Machinery Area Equipment Layout Lightning Protection Details Flexible Cable Details Limit Switch Details
24. Structures - Movable Span Total					2000 ✓	

Task No.	Task	Unit	No. of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
	Strain Gage Testing						
24.103	Preparation	EA	17	1	N/A	17	Prepare inspection sketches and review data
24.104	Field Inspection/Testing	EA	17	20	N/A	340	Perform strain gage testing: 2 Eng. x 17 Visit x 10 Hrs./Visit = 340 Hrs. (includes travel time)
24.105	Summary Memo	EA	17	10	N/A	170	Develop a summary memorandum of the findings and recommendations.
24. Bridge Monitoring Total						527 ✓	

Optional Services – Post Design Services

George Bush Blvd. over ICWW Mid-Term Repairs - Project No. 2022506

Supplement No. 4

OPTIONAL SERVICES - POST DESIGN						
Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
1.7	Post Design Services	LS	1	1,558	1558	See post design optional services breakdown below
1. General Tasks Total					1558	
1.9 - Post Design Breakdown						
		Units	No of Units	Hours/ Unit	Total Hours	Comments
	Plans Revisions	EA	8	4	32	5% of Structure plan sheets - 2 to 4 hours per sheet. Includes QA/QC, Supervision and Coordination. 75 Plan Sheets x 10% = 8 Plan Sheets 8 Plan Sheets x 4 hours = 32 Hours
	Shop Drawing Reviews	LS	1	604	604	See attached backup sheets with shop review details
	Request for Information Resolution	EA	96	3	288	Estimate one per week for length of construction. 1 to 3 hours per RFI. 672 estimated construction days ~ 96 Weeks 96 Weeks x 1 RFI's x 3 Hrs. = 288 Hours
	Prime Consultant Project Manager Meetings	LS	1	66	66	Progress meeting: 24 meetings x 2 hrs. (assume virtual) x 1 Engineer =48 hrs. Handoff Meeting: 1 meeting x 4 hrs. prep. + 2 hrs. x 1 Engineer = 6 hrs. (Includes meeting prep.) Pre-Construction Meeting: 1 meeting x 4 hrs. x 2 Engineers = 8 hrs. Partnering: 1 meetings x 4 hrs. x 1 Engineer = 4 hrs.
	Progress Meetings/Field Reviews/Shop Tests	LS	1	344	344	Estimated 1 per month for length of construction (8 hours each including travel time). 672 Days Const. Schedule ~ 24 Months x 1 Field Review x 8 Hrs. = 192 Hours Electrical Systems: 1 Engineer x 3 Days x 8 Hrs./Day = 24 Hours Mechanical Systems: 1 Engineer x 5 Days x 8 Hrs./Day = 40 Hours Structural Steel Shop Inspection: 1 Engineer x 5 Days x 8 Hrs./Day = 40 Hours Functional Checkout - Electrical Systems: 1 Engineer x 3 Days x 8 Hrs./Day = 24 Hours Functional Checkout - Mechanical Systems: 1 Engineer x 3 Days x 8 Hrs./Day = 24 Hours
	Field Reviews for Prime PM/EOR	EA	28	8	224	Attend site visit for the duration of construction. Includes meeting time and travel time.
	Total Project Manager Meetings		190		1558	Total PM Meeting Hours carries to Task 1.9 above

OPTIONAL SERVICES - POST DESIGN		
No.	Shop drawing reviews (list anticipated shop drawings)	Hrs.
BASCULE LEAVES		
1	Structural Steel Coating System	20
BASCULE PIERS		
1	Sections - repairs	5
1	Plan views - repairs	5
BASCULE SPAN - MECHANICAL		
1	Pinion Forging and Machining Details	16
1	Span Drive Couplings	6
1	Motor and Machinery Brakes	24
1	Track and Tread Castings and Machining Details	40
1	Span Operating Machinery & Gen. Notes	16
1	Span Operating Machinery Plan & Elev	16
1	Span Operating Machinery Supports	24
1	Span Oper. Mach. Installation Proc.	48
1	Trunnion Assemblies	40
1	Machinery Protective Coatings	4
1	Machinery Corrosion Inhibitor	4
1	CH - HVAC Ducts and Castings	8
1	CH - HVAC Air Duct Accessories	8
BASCULE SPAN - ELECTRICAL		
1	Control System Engineer Credentials	4
1	Journeyman Electrician Credentials	4
1	Wire & Cable	12
1	Grounding & Bonding	12
1	Conduit & Fittings	12
1	Boxes & Enclosures	12
1	Terminal Blocks	10
1	Wiring Devices	8
1	CCTV System	18
1	Span Drive	12
1	Motors	20
1	Motor Shop Testing Results	2

OPTIONAL SERVICES - POST DESIGN		
No.	Shop drawing reviews (list anticipated shop drawings)	Hrs.
1	Control System	24
1	Control System Shop Testing Procedure	12
1	Limit Switches & Inclinator	10
1	Control Desk	12
1	Programable Logic Controller	18
1	Motor Control Center (MCC)	12
1	Lightning Protection	14
1	Surge Suppressors	10
1	Flexible Cables	6
1	Panel Boards & Breakers	12
1	Basculer Pier Lighting	12
1	Disconnects & Fuses	14
1	Flexible Cable Termination Cabinet	6
1	Traffic Gates & Assemblies	18
1	Submersible Pump	4
1	Functional Checkout Testing Procedure	10
58	Total Shop Drawings	604 ✓

Optional Services

Bridge Monitoring (January 2027 – December 2027)

George Bush Blvd. over ICWW Mid-Term Repairs - Project No. 2022506

Supplement No. 4

Task No.	Task	Unit	No. of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
	Strain Gage Testing						
24.103	Preparation	EA	12	1	N/A	12	Prepare inspection sketches and review data
24.104	Field Testing	EA	12	20	N/A	240	Perform strain gage testing: 2 Eng. x 17 Visit x 10 Hrs./Visit = 680 Hrs. (includes travel time)
24.105	Summary Memo	EA	12	10	N/A	120	Develop a summary memorandum of the findings and recommendations.
16. Structures - Movable Span Total						372 ✓	



Date: May 6, 2025 (revised)
April 14, 2025 (Revised)
April 11, 2025

To: Michael Sileno, P.E.
Project Manager
Hardesty & Hanover, LLC
3250 W. Commercial Boulevard, Suite 348
Fort Lauderdale, FL 33309

Re: **Scope of Services**
GEORGE BUSH BOULEVARD BRIDGE REPLACEMENT OVER THE ICWW
MID-TERM REPAIRS
PALM BEACH COUNTY PROJECT NO.: 2022506

Dear Mr. Sileno:

Masse Consulting Services, LLC (Masse Consulting) is pleased to provide you with this scope of professional services for the above referenced project described below.

PROJECT DESCRIPTION

As a sub-consultant to Hardesty & Hanover, LLC, Masse Consulting will provide professional engineering services in connection with the mid-term repair of the existing George Bush Boulevard Bridge over the Intracoastal Waterway in Palm Beach County. The project involves developing rehabilitation plans for structural, mechanical, and electrical repairs to restore the existing bridge to feasible reliable condition to remain operational until its proposed replacement in approximately ten years. The length of the project is approximately 955 LF (0.181 miles).

Masse Consulting’s scope of services will be limited to the following services: Temporary Traffic Control Plan (TTCP), Permits and Utility Coordinations as described under the Scope of Services.

The plans and construction documents will be prepared in accordance with the following design standards:

- Palm Beach County Thoroughfare Roadway Design Procedures (January 2019).
- Manual of Uniform Minimum Standards for Design, Construction, and Maintenance for Streets and Highways, commonly known as the Florida Greenbook (2023 Edition).
- Palm Beach County Typical for Pavement Markings, Signing & Geometrics No. T-P-24 (July 2024).
- Manual on Uniform Traffic Control Devices for Streets and Highways (2019 edition with revisions).
- SFWMD Environmental Resource Permit Information Applicants Handbook, Vol. 1 & 2, effective June 2024.

Scope of Services
GEORGE BUSH BOULEVARD BRIDGE REPLACEMENT OVER THE ICWW
MID-TERM REPAIRS
PALM BEACH COUNTY PROJECT NO.: 2022506

SCOPE OF SERVICES

Masse Consulting will provide the following services:

1. Temporary Traffic Control Plans (TTCP)

Masse Consulting will develop a schematic vehicular detour route for the bridge closure for repair works. The plans will be prepared on 11"x17" with an aerial background.

6. Permits

Permits from the following agencies are required: South Florida Water Management District (SFWMD) Right-of-Way permit, United States Coast Guard (USCG), and U.S. Army Corps of Engineers (USACE). No Environmental Resource Permits (ERP) or dewatering permits from SFWMD are anticipated for the proposed maintenance work on the existing bridge. Masse Consulting will be responsible for preparing and submitting the required permit applications. All plans, supporting documents, permit sketches, and any modifications will be provided by the prime consultant, Hardesty & Hanover. Masse Consulting will provide the following services:

- 6.3 Analyze Existing Permits
- 6.4 Complete and submit permit applications, respond to requested additional information, and obtain permits
- 6.7 Attend Technical Meetings

7. Utilities

Masse Consulting Services will assist the Prime consultant in the utility coordination by providing the following services:

- 7.1 Draft existing utility facilities
- 7.2 Prepare utility conflict matrix
- 7.3 Identify conflict resolutions
- 7.4 Attend three (3) meetings

SUBMITTALS AND DELIVERABLES

All deliverables to Hardesty & Hanover, LLC will be only in PDF format.

EXCLUDED SERVICES

Design of any utility relocation work
 Signalization Plans
 TTCP Typical and Cross Sections
 Lane Closure Analysis

We are looking forward to working with you on this project. Should you have any questions, please feel free to contact us.

Sincerely,



Basher Khan, P.E.
 Manager

Project Staff Hour Summary

Name of Project: George Bush Boulevard Bridge Replacement over the ICWW Mid-Term Repairs						Consultant Name:		MASSE CONSULTING SERVICES, LLC		
PBC Project Number: 2022506						Consultant Proj. Number:		2025-105		
						Date:		5/6/2025		
Task Description		Total Staff Hours	Staff Categories					Staff Hours By Activity	Salary Cost By Activity	Average Rate Per Task
			Project Manager	Senior Engineer	Project Engineer	Engineering Intern	CADD/Computer Technician			
			\$67.00	\$62.00	\$47.00	\$33.00	\$30.00			
BASIC SERVICES										
1	Temporary Traffic Control Plans (TTCP)	80	16	20	28	8	8	80	\$4,132.00	\$ 51.65
6	Permits & Environmental	148	30	36	52	30	0	148	\$7,676.00	\$ 51.86
7	Utilities	110	22	28	39	11	10	110	\$5,706.00	\$ 51.87
Total Staff Hours (Basic Services)		338	68	84	119	49	18	338	\$17,514.00	\$ 51.82
Total Staff Cost (Basic Services)			\$4,556.00	\$5,208.00	\$5,593.00	\$1,617.00	\$540.00			
								Basic Services:		
								Salary Related Costs:		\$17,514.00
								Contract Multiplier		3.00
								Subtotal Basic Services:		\$52,542.00
								Basic Services Total:		\$52,542.00
								Total Estimated Fees: \$52,542.00 ✓		

Project Activity 1: Temporary Traffic Control Plans (TTCP)						
Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
1.0	Develop vehicular detour plan	LS	1	80	80	
1. Temporary Traffic Control Plans (TTCP) Total					80	
					80	Schematic detour plans (11"x17") on aerial background

Project Activity 6. Permits & Environmental						
Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments
6.3	Analyze Existing Permits	LS	1	40	40	Review and research existing permits from three agencies
6.4	Complete and Submit Permit Applications	EA	3	28	84	Prepare permit applications (16 hrs), and response to RAls (12 hrs) for 3 agencies
6.7	Attend Technical Meetings	EA	3	8	24	Three meetings (one meeting for each agency), 4 hours per meeting, two persons, include preparation for meeting and minutes
6. Permits and Environmental Total					148 ✓	

Project Activity 7: Utilities						
Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
7.1	Draft Existing Utilty Facilities	LS	1	48	48	Develop initial utility contact plan (16 hrs), Follow up with Prime & provide PDF files (8 hrs), Collect and review plans (24 hrs)
7.2	Prepare Utility Conflict Matrix	EA	2	12	24	Prepare conflict matrix (1 @ 65% plans; 1@ final plans) for 13 agencies
7.3	Identify Conflict Resolutions	EA	13	2	26	Coordinate with 13 utility agencies, and follow up with utility owners
7.4	Meetings	EA	2	6	12	2 utility coordination meetings (65% and 96%), 1 hr per meeting; 2 hrs per meeting preparation and meeting minutes; 2 persons; 13 agencies
7. Utilities Total					110 ✓	

OEBO SCHEDULE 1*

EXHIBIT C - PAGE 1 OF 3

SOLICITATION/PROJECT/BID NAME: George Bush Blvd. Bridge Replacement Over ICWW SOLICITATION/PROJECT/BID NO.: 2022506

SOLICITATION OPENING/SUBMITTAL DATE: August 9, 2022 COUNTY DEPARTMENT: Engineering & Public Works

Section A PLEASE LIST THE DOLLAR AMOUNT OR PERCENTAGE OF WORK TO BE COMPLETED BY THE PRIME CONTRACTOR/CONSULTANT* ON THE PROJECT:

NAME OF PRIME RESPONDENT/BIDDER: Hardesty & Hanover, LLC ADDRESS: 3250 W. Commercial Blvd. Suite 348, Fort Lauderdale FL 33309

CONTACT PERSON: Steve Hedge, PE PHONE NO.: 954-368-6350 E-MAIL: shedge@hardestyhanover.com

PRIME'S DOLLAR AMOUNT OR PERCENTAGE OF WORK: \$946,510.78
SBE Prime's must include their percentage or dollar amount in the Total Participation line under section B.

Non-SBE ☒ SBE ☐

Section B PLEASE LIST THE DOLLAR AMOUNT OR PERCENTAGE OF WORK TO BE COMPLETED BY ALL SUBCONTRACTORS/SUBCONSULTANTS ON THE PROJECT BELOW:

Subcontractor/Sub consultant Name	(Check all Applicable Categories)		DOLLAR AMOUNT OR PERCENTAGE OF WORK
	Non-SBE	SBE	
1. MASSE Consulting Services, LLC	☐	☒	\$52,542.00
2.	☐	☐	
3.	☐	☐	
4.	☐	☐	
5.	☐	☐	

(Please use additional sheets if necessary)

Total Bid/Offer Price \$ 999,052.78
Total Certified SBE Participation \$ 52,542.00

I hereby certify that the above information is accurate to the best of my knowledge: Michael Sileno, PE
Name & Authorized Signature Managing Member
Title

- Note:
- The amount listed on this form for a Subcontractor/sub consultant must be supported by price or percentage listed on the properly executed Schedule 2 or attached signed proposal.
 - Only those firms certified by Palm Beach County at the time of solicitation due date are eligible to meet the established OEBO Affirmative Procurement Initiative (API). Please check the applicable box and list the dollar amount or percentage under the appropriate demographic category.
 - Modification of this form is not permitted and will be rejected upon submittal.
 - If a Mandatory API goal applies, failure to submit a properly executed Schedule 2 will result in a determination of non-responsiveness to the solicitation.

A completed Schedule 2 is a binding document between the Prime Contractor/consultant and a Subcontractor/subconsultant (for any tier) and should be treated as such. All Subcontractors/subconsultants, including any tiered Subcontractors/ subconsultants, must properly execute this document. If a Mandatory API goal applies, failure to submit a properly executed Schedule 2 will result in a determination of non-responsiveness to the solicitation. Each properly executed Schedule 2 must be submitted with the bid/proposal.

SOLICITATION/PROJECT NUMBER: 2022506
SOLICITATION/PROJECT NAME: George Bush Blvd. Bridge Replacement Over ICWW

Prime Contractor: Hardesty & Hanover, LLC Subcontractor:
(Check box(s) that apply)

☐ SBE ☒ Non-SBE ☐ Supplier Date of Palm Beach County Certification (if applicable): N/A

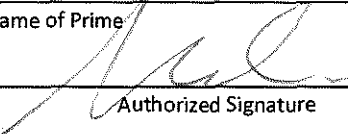
SBE PARTICIPATION – SBE Primes must document all work to be performed by their own work force on this form. Specify in detail, the scope of work to be performed or items supplied with the dollar amount and/or percentage for each work item. When applicable, identify the line item(s) associated with the service/product being supplied. SBE credit will only be given for the areas in which the SBE is certified. A detailed quote/proposal may be attached to a properly executed Schedule 2 for additional information.

Line Item	Item Description	Unit Price	Quantity/ Units	Contingencies/ Allowances	Total Price/Percentage
4.03	include project management, structural, mechanical, and electrical services covered under work categories 4.02, 4.03, 10.01				94.74%

The undersigned Subcontractor/subconsultant is prepared to self-perform the above-described work in conjunction with the aforementioned project at the following total price or percentage:

If the undersigned intends to subcontract any portion of this work to another Subcontractor/subconsultant, please list the business name and the amount below accompanied by a separate properly executed Schedule 2.

Name of 2nd/3rd tier Subcontractor/subconsultant Price or Percentage:

HARDESTY & HANOVER, LLC
Print Name of Prime
By: 
Authorized Signature
Michael Sileno, PE
Print Name
Managing Member
Title
Date: 7/10/2025

N/A
Print Name of Subcontractor/subconsultant
By:
Authorized Signature

Print Name
Title
Date:

*Revised 6.5.2025 pursuant to Emergency Ordinance 2025-014, approved on June 3, 2025

A completed Schedule 2 is a binding document between the Prime Contractor/consultant and a Subcontractor/subconsultant (for any tier) and should be treated as such. All Subcontractors/subconsultants, including any tiered Subcontractors/ subconsultants, must properly execute this document. If a Mandatory API goal applies, failure to submit a properly executed Schedule 2 will result in a determination of non-responsiveness to the solicitation. Each properly executed Schedule 2 must be submitted with the bid/proposal.

SOLICITATION/PROJECT NUMBER: 2022506
SOLICITATION/PROJECT NAME: George Bush Blvd. Over ICWW Bridge Replacement

Prime Contractor: Hardesty & Hanover, LLC Subcontractor: Masse Consulting Services, LLC
(Check box(s) that apply)

☒ SBE ☐ Non-SBE ☐ Supplier Date of Palm Beach County Certification (if applicable): 3/1/24 - 3/10/27

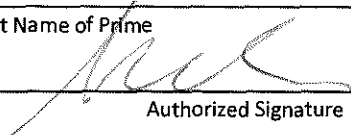
SBE PARTICIPATION – SBE Primes must document all work to be performed by their own work force on this form. Specify in detail, the scope of work to be performed or items supplied with the dollar amount and/or percentage for each work item. When applicable, identify the line item(s) associated with the service/product being supplied. SBE credit will only be given for the areas in which the SBE is certified. A detailed quote/proposal may be attached to a properly executed Schedule 2 for additional information.

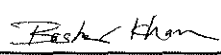
Line Item	Item Description	Unit Price	Quantity/ Units	Contingencies/ Allowances	Total Price/Percentage
3.02	Permit and Utility Coordination				5.26%

The undersigned Subcontractor/subconsultant is prepared to self-perform the above-described work in conjunction with the aforementioned project at the following total price or percentage: 5.26%

If the undersigned intends to subcontract any portion of this work to another Subcontractor/subconsultant, please list the business name and the amount below accompanied by a separate properly executed Schedule 2.

Name of 2nd/3rd tier Subcontractor/subconsultant Price or Percentage:

HARDESTY & HANOVER, LLC
Print Name of Prime
By: 
Authorized Signature
Michael Sileno, PE
Print Name
Principal
Title
Date: 7/10/2025

Masse Consulting Services, LLC
Print Name of Subcontractor/subconsultant
By: 
Authorized Signature
Md Abul Basher Khan, PE
Print Name
Manager
Title
Date: 7/10/2025

*Revised 6.5.2025 pursuant to Emergency Ordinance 2025-014, approved on June 3, 2025

PROJECT HISTORY

Exhibit D

George Bush Boulevard Bridge Replacement over the ICWW					
Project# 2022506					
Authorization	Supplement	Date Approved	Total Amount	SBE Amount	SBE %
BCC	Original Contract	10/17/2023	\$ 907,256.01	\$ 684,210.41	75.41%
Lead	Supplement #1	1/17/24	\$ 24,724.00	\$ -	0.00%
CRC	Supplement #2	5/8/2024	\$ 80,180.70	\$ 77,857.44	97.10%
BCC	Supplement #3	5/6/25	\$ 5,106,469.49	\$ 569,989.90	11.16%
BCC	Supplement #4	Pending	\$ 999,052.78	\$ 52,542.00	5.25%
Project Totals			\$ 7,117,682.98	\$ 1,384,599.75	19.45%



Palm Beach County
Compliance Summary Report

Vendor Number	Vendor Name	AM Best Rating	Insurance Carrier	Policy #	Eff. Date	Exp. Date	Coverage	Contract Number	Contract Name
DX00002131	Hardesty & Hanover, LLC		Compliant					2022506	George Bush Boulevard over ICWW Bridge Replacement
		Ag , XV	Aspen American Insurance Company	cx009n725	8/1/2025	8/1/2026	Excess Liability		
		Ap , XV	National Union Fire Insurance Company of Pittsburg	GL9566090	8/1/2025	8/1/2026	General Liability		
		Ag , XV	Beazley Insurance Company, Inc.	V38122250201	8/1/2025	8/1/2026	Professional Liability		
		Ar , XV	New Hampshire Insurance Company	WC43172130	8/1/2025	8/1/2026	Workers Comp		

Risk Profile : Standard - Professional Services
Required Additional Insured : Palm Beach County Board of County Commissioners
Ownership Entity :