## WORK ORDER No. 6 FOR PROFESSIONAL SERVICES

TO: EAC Consulting Inc. DATE: July 10, 2019

SEAL:

5959 Blue Lagoon Drive, Suite 410

Miami, Florida 33126 (305) 265-5400

The City of Doral authorizes the firm of EAC Consulting Inc. to provide professional engineering design services for the structural analysis of the mast arms noted in the proposal provided. The work should be performed in accordance with the contract provisions contained in the Continuing Professional Services Agreement between EAC Consulting Inc. and the City of Doral dated February 26, 2018, and the attached Proposal submitted by your firm for the above referenced project.

### SCOPE OF SERVICES AND SCEHDULE:

The scope of the project will be as described in the attached proposal from EAC Consulting Inc. dated July 2, 2019 for the analysis of existing mast arms at the intersection of NW 12 Street and NW 87 Avenue. The schedule requires the scoped of work to be completed within 30 days of Notice to Proceed. All limitations of time set forth in this Work Order are of the essence. The performance of services associated with this Work Order will be executed on a Time and Materials basis with a not to exceed amount of \$5,462.00.

You are required by the Continuing Service Agreement to begin work subsequent to the execution of this Work Order, or as directed otherwise. If you fail to begin work subsequent to the execution of this Work Order, the City of Doral will be entitled to disqualify the Proposal and revoke the award.

Work Order incorporates the terms and conditions set forth in the Continuing Services Agreement dated February 26, 2018 between the parties as though fully set forth herein. In the event that any terms or conditions of this Work Order conflict with the Continuing Services Agreement, the provisions of this specific Work Order shall prevail and apply. Work Order is not binding until the City of Doral agrees and approves this Work Order.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement on the day and date first above written, in three (3) counterparts, each of which shall, without proof or accounting for the other counterpart be deemed an original Contract.

1.

2.

BY:

NAME:

TITLE:

AUTHENTICATION:

Connie Diaz

City Clerk

CONSULTANT: EAC Consulting Inc.

BY:

NAME: Michael Adeife TITLE: Sr. Vice President

OWNER: City of D

NAME:

TITLE:

BY:

Albert P. Childress

City Manager

APPROVED AS TO FORM AND LEGAL SUFFICIENCY FOR THE SOLE USE

OF THE CITY OF DORAL:

BY: NAME:

Luis Figueredo, ESO

TITLE:

City Attorney



July 2, 2019

Aurelio Del Valle Intersection Technology Systems Analyst City of Doral 8401 NW 53<sup>rd</sup> Terrace Doral, FL 33166

Re: Continuing Professional Services Final Agreement - RFQ # 2017-21
Fee Proposal for the Analysis of Existing Mast Arms with New Camera Devices

EAC Consulting, Inc. respectfully submits this fee proposal to provide structural analysis services for the City of Doral (City).

The following sub-consultant, selected as part of our team under RFQ #2017-21 will support our services on this project:

• Botas Engineering, Inc.

#### PROJECT UNDERSTANDING

It is our understanding that the City will be installing camera devices on existing mast arms at the intersection of NW 87<sup>th</sup> Avenue and NW 12<sup>th</sup> Street within the City. The installation of these cameras will require a structural engineer to analyze the impacts on the existing mast arms caused by the installation of camera equipment. The analyses will be conducted for three (3) existing mast arms (1 double mast arm and 2 single mast arms) located at the referenced intersection.

## SCOPE OF SERVICES:

The mast arms mentioned above will be analyzed using the following requirements:

- 1. Florida Department of Transportation (FDOT)
- 2. American Association of State Highway and Transportation Officials (AASHTO)

#### COMPENSATION:

The fees for professional services were developed in accordance with the billing rates established between EAC Consulting, Inc. and the City of Doral under the referenced agreement. Our Not to Exceed (NTE) fee proposal breakdown is as follows:

Major Task Name and/or Part Description	Fee Amount	Fee Basis			
Project Management	\$680.00	NTE			
Structural Analysis and Reporting	\$4,782.00	NTE			
Sub-Total (NTE)	\$5,462.00	NTE			
GRAND TOTAL (Professional Fees)	\$5,462.00	NTE			

TP.

## **DELIVERABLES:**

Signed and sealed letter stating the results of the analysis

## **ADDITIONAL SERVICES AND ASSUMPTIONS:**

- Any services other than the services listed above will require a supplemental service authorization
- The City of Doral will provide structural as-built plans for all three (3) existing mast arms
- The City of Doral will provide the specifications of the camera equipment to be installed
- The City of Doral will provide the exact mounting location of the camera equipment

This proposal is based on our understanding of the requirements for engineering services as itemized under the anticipated tasks listed above. Accordingly, we reserve the right to modify this proposal due to any changes in scope. If the above fee proposal and the terms above are acceptable to you, please provide us with a work authorization so we may begin work.

We look forward to our continued services to the City of Doral.

Sincerely,

**EAC Consulting, Inc.** 

Huntley Higgins, P.E.

**Water Services Department Manager** 

cc: Michael Adeife, P.E.; Contracts File

Attached:

Exhibit A - Fee Breakdown (EAC and Botas)

Exhibit B - Botas' Proposal

EXHIBIT "A" - FEE BREAKDOWN (EAC & BOTAS)

EAC Consulting, Inc.	CONTRACT FEE COMPUTATION (BASIC SERVICES)											
5959 Blue Lagoon Drive, Suite 410												
Miami, FL 33126	Description: City of Doral - NW 87th Ave. and 12th Street - Mast Arm Analysis City Contract No.: RFQ # 2017-21											
(305) 265-5400												
EAC Project No. 17077.WW01-05	City of Doral, Florida											
NO (LOTE STA	Principal	Project	Senior Engineer Manhours	Project Engineer Manhours	Engineering	Inspector						
NO./ACTIVITY	Manhours	Manager			Tech Manhours	Manhours	TOTAL Hours		Avg.			
Task Hourly Rate	\$ 200.00	Manhours						Cost For	Hourly			
rouny rate	\$ 200.00	\$ 170.00	\$ 131.00	\$ 101.00				Activity	Rate			
Task 1: Project Management (EAC)		4.0					4.0	680.0				
Task 2: Structural Analysis (Botas)	2.00	2.0	27.0	5.0			36.0	4782.0				
Table 2: Ordered Analysis (Bolds)	2.00	2.0	21.0	0.0			30.0	4762.0				
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		50										
		7.										
	·											
		46										
TOTAL MANHOURS	2	6.00	27.00	5.00	0.00	0.00	40.00					
TOTALIVIANTIONS		0.00	27.00	3,00	0.00	0.00	40.00	\$5,462.00				
DISTRIBUTION OF COST ELEMENTS		Т	OTAL CON	TRACT FF	E COMPUT	ATION	Appropriate Box)					
TO BASIC ACTIVITIES			ty Salary Co		2 001111 01	\$5,462.00	[x]	ippropriate box)				
Task 1: Project Management (EAC)	\$680.00	1	ead Additives			40,102.00	[]					
Task 2: Structural Analysis (Botas)	\$4,782.00		inistration &		0%	\$0.00	[]					
0	V 11. 02.100	100	ge Benefits	Conordi	0.00%	\$0.00	1.1					
		MULTIPLIER 100				\$5,462.00						
		(b) Lump !		ating Margin		40,102.00						
		(b) Lamp		tal(Salary Re		\$5,462.00	l					
		S(c)Facilitie	s Capital Co		0.000%	\$0.00						
		AND ELLER SOLL COLUMN		pplied to Bas		\$5,462.00						
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	1	Sub-Total :				\$ 5,462.00	1					
TOTAL	\$5,462.00					-, -, -, -, -, -, -, -, -, -, -, -, -, -						
Prepared By: EAC CONSULTING,												
Date: July 2, 2019												
Revised By: EAC CONSULTING, I		Т	OTAL FEE			\$ 5,462.00						
Date: July 2, 2019		1.00	Rounded T	otal		\$5,462	1					

# EXHIBIT "B" -BOTAS' FEE PROPOSALS

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Patricia M. Botas, P.E.

President

July 2, 2019

July 2, 2019									
EAC Consulting, Inc. 5959 BLUE LAGOON DRIVE, SUITE 410 • MIAMI, FL 33126 Attn: Huntley Higgins, PE, PMP									
Subject: Fee Proposal for the Analysis of Existing Mast Arms with New Camera Devices.									
Location: City of Doral- Intersection of NW 87 <sup>th</sup> Ave. and 12 <sup>th</sup> Street									
Dear Huntley:									
As requested, we are submitting our proposal to analyze three (3) existing mast arms (1 double mast arm and 2 single mast arms) located at the above-mentioned intersection. The analysis will incorporate the installation of camera devices with the corresponding equipment at each mast arm.									
Since the mast arms to be analyzed are relatively new, our fee considers that plans are available and will be provided. Also, we would need all the specifications of the equipments that will be installed and the location where it will be mounted.									
The mast arms will be analyzed considering the FDOT and AASHTO requirements.									
Our fee for the above-mentioned scope shall not exceed the amount of \$4,782.									
Please, let us know if you have any question(s) or need any additional information.									
Thank you for considering us for this project.									
Regards, BOTAS Engineering, Inc.  Accepted									

Date

#### ESTIMATE OF WORK EFFORT AND COST - SUBCONSULTANT

W.

Name of Project:

City of Doral - NW 87th Ave and 12th Street f- Mast Arm Analysis

Consult. Name Botas Engineering

Consult. No.

County: FPN:

Miami-Dade

Date: 7/2/2019

Part	FAP No.:	N/A												Estimator:	Patricia Bot	as	
Project General Tasks   Control   Proj	Staff Classification			Project	Senior	Project	Senior Eng.		Staff Classi-	SH	Salary	Average					
Project General Tasks		THOUSE THOM	Engineer	Manager	-										Ву		Rate Per Task
			\$200.00	\$170.00											Activity		
S. Roseway Plans  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3. Project General Tasks	0	0	0	0	0	0	. 0	0	0	0	0	0	0	0	\$0	#DIV/0!
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7. Utillines 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5. Roadway Plans	0	0	0	0	0	0	.7%	0	0	0	0	0	0	0	\$0	#DIV/0!
S. Environmental Permits	5. Drainage Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
2. Structure Summary 8	7. Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	so	#DIV/0!
10. Structures - BDR	3. Environmental Permits	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
11. Structures - Temporary Bridge	3. Structure Summary	8	1	1	2	5	0	0	0	0	0	0	0	0	9	\$1,137	\$126.33
12. Structures - Short Span Concrete	10. Structures - BDR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
13. Structures - Medium Span Concrete	11. Structures - Temporary Bridge	0	0	0	0	0	0	0	0	0	0	0	0	D	0	\$0	#DIV/0!
14. Structures - Structural Steel 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	12. Structures - Short Span Concrete	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/01
14. Structures - Structural Steel	13. Structures - Medium Span Concrete	0	0	0	0	0	D	0	0	0	0	0	0	0	0	\$0	#DIV/0!
18. Structures - Movable Span	14. Structures - Structural Steel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
17. Structures - Retaining Walls  D D D D D D D D D D D D D D D D D D	15. Structures - Segmental Concrete	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
18. Structures - Miscellaneous 28 1 1 25 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	16. Structures - Movable Span	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
19. Signing & Marking Analysis  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	17. Structures - Retaining Walls	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
20. Signing & Marking Plans 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	18. Structures - Miscellaneous	28	1	1	25	0	0	%;Q	0	0	0	0	0	0	27	\$3,645	\$135.00
21. Signalization Analysis 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	19. Signing & Marking Analysis	0	0	0	0	0	D	1 0	0	0	0	0	0	D	0	\$0	#DIV/0!
22. Signalization Plans	20, Signing & Marking Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
23. Lighting Analysis 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	21. Signalization Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/01
24. Lightling Plans 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	22. Signalization Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
25. Landscape Architecture Analysis 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	23. Lighting Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/01
26. Landscape Architecture Plans  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	24. Lighting Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
27. Survey 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	25. Landscape Architecture Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/01
28. Photogrammetry 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	26. Landscape Architecture Plans	0	0	0	0	0	0	0	0	0	0	0	D	0	0	\$0	#DIV/0!
28. Photogrammetry 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	27. Survey	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
29. Mapping 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	28. Photogrammetry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
30. Geotechnical 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	29. Mapping	0	0	0	0	0	0	Ó	0	0	0	0	D	0	0	\$0	#DIV/0!
31. Architecture Development 0 0 0 0 0 0 0 0 0 0 0 0 0 0 ##	30. Geotechnical	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
	31. Architecture Development	0	0	0	0	0	0	0	0	0	0	0	0	0	0	000000	#DIV/0!
	Total Staff Hours	36	2	2	27	5	0	150	0	0	0	0	0	0	36		

\$0.00

\$0.00

\$0.00

\$0.00

GRAND TOTAL ESTIMATED FEE:

\$0.00

Notes:

1. This sheet to be used by Subconsultant to calculate its fee.

\$400.00 \$340.00

2. Provide backup for the expense calculation in a format acceptable to the Department.

\$3,537.00 \$505.00

\$0.00

SALARY RELATED COSTS: \$4,782.00 OVERHEAD: 0.00% \$0.00 SUBTOTAL: \$4,782.00 OPERATING MARGIN: 0% \$0.00 FCCM (Facilities Capital Cost Money): 0.000% \$0.00 EXPENSES (Note 2): \$0.00 Survey (Field) 4-man crew da \$ \$0.00 SUBTOTAL ESTIMATED FEE: \$4,782.00 Optional Services \$0.00

\$0.00

40

CityofDoral-MastArmAnalysis Fee Sheet - Sub

Total Staff Cost

. Page 1 of 1

14

7/2/2019 7:12 PM

\$4,782.00

\$4,782.00

\$132.83

\$4,782.00