



**Craven Thompson  
& Associates, Inc.**  
Project Management  
Engineering  
Landscape Architecture  
Surveying & Planning

3563 NW 53rd Street  
Fort Lauderdale, Florida 33309  
Phone: (954) 739-6400

PREPARED FOR



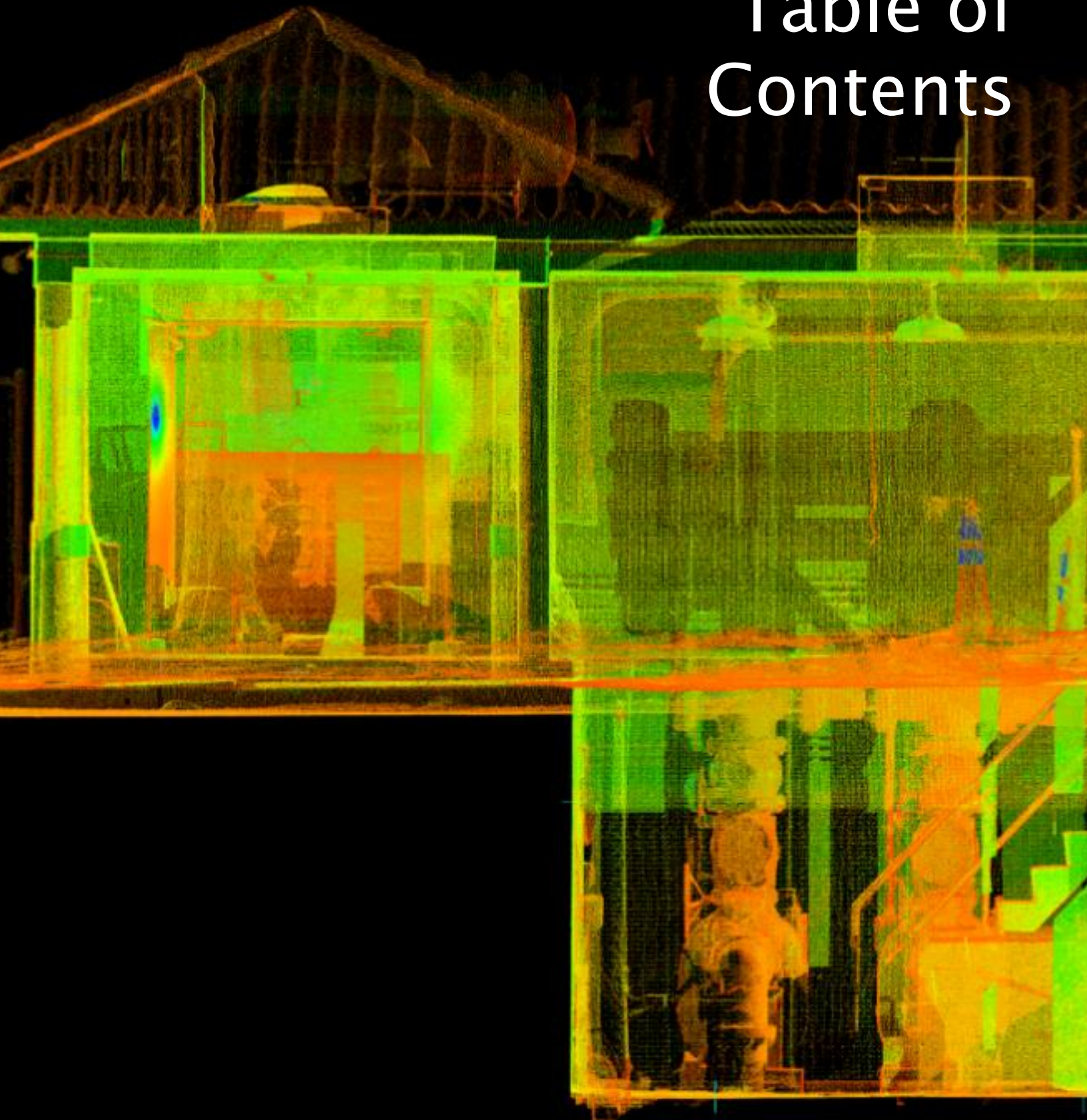
# CONTINUING PROFESSIONAL CONSULTING SERVICES (CCNA) RFQ #2024-1-PW

JANUARY 21, 2025



Tab 1

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Tab 2

Letter  
of Interest



January 21, 2025

City of Cooper City  
Purchasing Division  
9090 SW 50<sup>th</sup> Place  
Cooper City, Florida 33328

**RE: REQUEST FOR QUALIFICATIONS NO. 2024-1-PW  
CONTINUING PROFESSIONAL CONSULTING SERVICES (CCNA)**

Dear Selection Committee Members:

Craven Thompson and Associates, Inc. is pleased to submit this Statement of Qualifications for your consideration in response to the City of Cooper City's Request for Qualifications for "Continuing Professional Consulting Services (CCNA)". We have provided similar services to many of our other municipal clients throughout our sixty-three (63) years in business. Craven Thompson is very familiar with the consulting services such as that described in the Scope of Services for this RFQ. These types of projects have been the core of Craven Thompson's business. We are submitting to be selected for the following category:

- Civil Engineering
- Water/Wastewater/Storm-Water
- Landscape Architecture
- Other Services:
  - Land Surveying & Mapping
  - GIS for Engineering, Utilities, and Development Services
  - Construction Engineering Inspection Services Non-FDOT Certified
  - Engineering Plan Review
  - Project Management
  - Owner's Representative
  - Cost Estimating

Craven Thompson will assist Cooper City in its mission is to continually improve the quality of life by providing the best and most cost-efficient public services and facilities to exceed the expectations of city residents and businesses. We will deliver high quality products and efficient service that is provided on time and as ordered.

We are a firm large enough to successfully complete complex designs yet small enough to efficiently and economically perform small single task projects routinely required by municipalities. While many firms venture into a large diversity of markets and varied clientele, we focus almost exclusively on the local government market (municipalities) mainly in Broward County. That allows us to provide our individual clients with focused and well-tested knowledge and expertise.

A unique value that sets us apart from most firms is that the majority of our personnel have spent many years developing skills in their field. The civil engineers, surveyors, landscape architects, and construction personnel proposed for this contract average twenty-five (25) years of experience in their fields, primarily on municipal projects. Moreover, these same personnel average over ten (10) years of that experience working at Craven Thompson. Our professionals all have strong design and construction backgrounds resulting in common sense, economical solutions to problems. Our practical, deadline-oriented professionals will work diligently to meet submission deadlines, which in turn helps minimize delays associated with permitting and construction. With our highly experience group of professionals, our forward thinking, adaptability and experience easily rivals that of a firm ten times our size.

Based on this experience, we believe that Craven Thompson is the firm most qualified to provide Cooper City with the services needed in a timely and cost-effective manner. We commit to dedicate the time and personnel necessary to meet the City's schedules and budgets.



**Size of Firm:** Craven Thompson has sixty-seven employees consisting of three Landscape Architects, two Landscape Designers, two Planners, twenty-four Civil Engineers, nineteen Surveyors & GIS Specialists (includes field crews), two Construction Managers, six Construction Inspectors; and nine Administrative Personnel.

**Range of Activities:** For over sixty-three years Craven Thompson & Associates, Inc. has provided consulting services to governmental agencies throughout South Florida. We have provided some or all of the following services to numerous clients including: surveying, stormwater & drainage improvements, stormwater master plans, roadways, complete streets/streetscapes, neighborhood improvements, water and sanitary sewer, landscape architecture, urban design, planning, park design, G.I.S., and CEI services.

**Firms Strength and Stability:** Craven Thompson & Associates, Inc. is a corporation that has been serving clients in Broward County, Palm Beach, and Miami-Dade continuously since 1962. The company has sixty-seven (67) employees and services numerous governmental and private industry clients in the South Florida area. The Dun and Bradstreet # for Craven Thompson and Associates, Inc. is 06-362-4910 and the company currently carries a favorable D & B rating. Further to this, the company has a strong balance sheet showing a current ratio above 3.0 as of December 31, 2023. Craven Thompson & Associates, Inc. has not been involved in any bankruptcy proceedings.

**Location of Firm; proximity to the City of Cooper City:** Office is located at 3563 NW 53<sup>rd</sup> Street, Fort Lauderdale, Florida 33309. Our office is 15.4 miles from the Cooper City's City Hall.

**Summary of Abilities and Experience of the Firms' Professional Personnel:** Please refer to professional resumes located in Tab 3, also Standard Form 330, Section E: Resumes of Key Personnel Proposed for this Contract.

**Summary of past performance of the firm on similar projects:** Please refer to Tab 3, Standard Form 330, Section F: Example Projects, also Tab 6: References.

**Firm's Number of Years of Experience:** For over sixty-three years Craven Thompson & Associates, Inc. has provided consulting services to governmental agencies throughout South Florida. Craven Thompson was founded as a corporation in the State of Florida in 1962 and has a large group of professional engineers, graduate engineers, surveyors, G.I.S. specialists, landscape architects and planners. Craven Thompson has been providing civil engineering, surveying and CEI services for the past sixty-three (63) years, landscape architectural services for the past forty-six (46) years, and G.I.S. services for the past nineteen (19) years.

**Business Structure / Legal Entity in the State of Florida:** Craven, Thompson is a State of Florida Corporation (see proof of Corporation in Tab 4).

**Workload of the Firm:** Please refer to Tab 5.

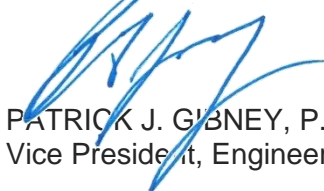
**Single Point of Contact / Authorized Representative**

Patrick J. Gibney, P.E., Vice President, Engineering  
Craven, Thompson & Associates, Inc.  
3563 NW 53<sup>rd</sup> Street, Fort Lauderdale, Florida 33309  
Phone: (954) 739-6300 / Email: [pgibney@craventhompson.com](mailto:pgibney@craventhompson.com)  
Website: [www.CravenThompson.com](http://www.CravenThompson.com)

We sincerely appreciate the opportunity of providing this response to Cooper City and hope develop a strong working relationship with the City and staff.

Sincerely,

**CRAVEN THOMPSON & ASSOCIATES, INC.**



PATRICK J. GIBNEY, P.E.  
Vice President, Engineering



# Tab 3

## Standard Form

### 330



# ARCHITECT - ENGINEER QUALIFICATIONS

## PART I - CONTRACT-SPECIFIC QUALIFICATIONS

### A. CONTRACT INFORMATION

1. **TITLE AND LOCATION (City and State)**

City of Cooper City - Continuing Professional Consulting Services (CCNA)

2. **PUBLIC NOTICE DATE**

October 19, 2024

3. **SOLICITATION OR PROJECT NUMBER**

RFQ #2024-1-PW

### B. ARCHITECT-ENGINEER POINT OF CONTACT

4. **NAME AND TITLE**

Patrick J. Gibney, P.E., Vice President, Engineering

5. **NAME OF FIRM**

Craven, Thompson & Associates, Inc.

6. **TELEPHONE NUMBER**

(954) 739-6400

7. **FAX NUMBER**

(954) 739-6409

8. **E-MAIL ADDRESS**

pgibney@craventhompson.com

### C. PROPOSED TEAM

(Complete this section for the prime contractor and all key subcontractors.)

	(Check)			9. FIRM NAME	10. ADDRESS	11. ROLE IN THIS CONTRACT
	PRIME	J-V PARTNER	SUBCON-TRACTOR			
a.	X			Craven Thompson & Associates, Inc. <input type="checkbox"/> CHECK IF BRANCH OFFICE	3563 NW 53 <sup>rd</sup> Street Fort Lauderdale, Florida 33309	<ul style="list-style-type: none"><li>▪ Civil Engineering</li><li>▪ Water / Wastewater / Storm-water</li><li>▪ Landscape Architecture</li><li>▪ Other:<ul style="list-style-type: none"><li>◦ Land Surveying &amp; Mapping</li><li>◦ Construction Eng. &amp; Inspection</li><li>◦ Engineering Plan Review</li><li>◦ Project Management</li><li>◦ Owners Representative</li><li>◦ Cost Estimating</li></ul></li></ul>
b.			X	WIRX Engineering, LLC <input type="checkbox"/> CHECK IF BRANCH OFFICE	515 East Las Olas, Suite 120 Fort Lauderdale, Florida 33301	Geotechnical Engineering Services
c.			X	Quantum Electrical Engineering, Inc. <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	5571 North University Drive Suite 101 Coral Springs, Florida 33067	Electrical Engineering Services
d.			X	InfraMap Corp. <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	1100 North Florida Manga Road Suite D West Palm Beach, Floria 33409	Subsurface Utility Locates
e.				<input type="checkbox"/> CHECK IF BRANCH OFFICE		

### D. ORGANIZATIONAL CHART OF PROPOSED TEAM

☒ (Attached)



## PART I - CONTRACT-SPECIFIC QUALIFICATIONS

### D. Organizational Chart of Proposed Team

## Our Team

### Organizational Chart



#### PROJECT / CONTRACT MANAGER

Patrick Gibney, PE

#### CIVIL ENGINEERING

Patrick Gibney, PE  
Douglas Taylor, PE  
Gary Tenn, PE  
Chad Edwards, PE  
Luis Pimentel, PE  
Zach Gamble, PE

#### WATER / WASTEWATER / STORM-WATER

Patrick Gibney, PE  
Robert Connors, PE  
Gary Tenn, PE  
Philip Joseph, PE  
Luis Pimentel, PE  
Douglas Taylor, PE

#### LANDSCAPE ARCHITECTURE

Scott Peavler, PLA  
Nicole Pastre, PLA  
Erik Schofield, PLA  
Nathan Raimondo

#### OTHER SERVICES

##### LAND SURVEYING & MAPPING

Richard Crawford, PSM  
Raymond Young, PSM  
David Reyes

##### CEI - NON FDOT CERTIFIED

Brian Tull  
Jeff LaBelle  
Marshall Shedio  
Rasiel Lopez

##### PROJECT MANAGEMENT

Patrick Gibney, PE  
Scott Peavler, PLA

##### OWNER'S REPRESENTATIVE

Marshall Shedio  
Rasiel Lopez

##### COST ESTIMATING

Luis Pimentel, PE  
Nicole Pastre, PLA

##### GIS FOR ENGINEERING, UTILITIES & DEV.

Richard Crawford, PSM  
Raymond Young, PSM  
David Reyes

##### ENGINEERING PLAN REVIEW

Gary Tenn, PE

#### SUBCONSULTANTS

##### GEOTECHNICAL ENGINEERING

WIRX Engineering, LLC  
Gregory Stelmack, PE  
Andrew Nixon, PE

##### SUBSURFACE UTILITY LOCATES

InfraMap Corp.  
Paul Engle, PE  
Andres Garcia, ULM

##### ELECTRICAL ENGINEERING

Quantum Electrical Eng  
Amy Champagne, PE  
James Kappes, PE

## E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME <b>Patrick J. Gibney, P.E.</b>	13. ROLE IN THIS CONTRACT <b>Project/Contract Manager</b>	14. YEARS EXPERIENCE <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; border-bottom: 1px solid black; text-align: center;">a. TOTAL</td> <td style="width: 50%; border-bottom: 1px solid black; text-align: center;">b. WITH CURRENT FIRM</td> </tr> <tr> <td style="text-align: center; font-size: 1.2em;">37</td> <td style="text-align: center; font-size: 1.2em;">31</td> </tr> </table>		a. TOTAL	b. WITH CURRENT FIRM	37	31
a. TOTAL	b. WITH CURRENT FIRM						
37	31						
15. FIRM NAME AND LOCATION (City and State) <b>Craven Thompson &amp; Associates, Inc., 3563 NW 53<sup>rd</sup> Street, Fort Lauderdale, Florida 33309</b>							
16. EDUCATION (DEGREE AND SPECIALIZATION) <b>Rutgers, The State University, Bachelor of Science, Civil Engineering (1987)</b>		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) <b>Professional Engineer - Florida No. 49428 (1995)</b>					
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) <b>American Society of Civil Engineers, FDOT Pre-Qualified Roadway Construction Engineering Inspection</b>							

19. RELEVANT PROJECTS							
a.	(1) TITLE AND LOCATION (City and State) <b>Utility Analysis Zone (UAZ) 122</b> <b>Lauderdale Lakes, Florida</b>	(2) YEAR COMPLETED <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; border-bottom: 1px solid black; text-align: center;">PROFESSIONAL SERVICES</td> <td style="width: 50%; border-bottom: 1px solid black; text-align: center;">CONSTRUCTION (If applicable)</td> </tr> <tr> <td style="text-align: center; font-size: 1.2em;">2016</td> <td style="text-align: center; font-size: 1.2em;">2021</td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	2016	2021
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)					
	2016	2021					
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Project Director - The project included the construction of a sanitary sewer collection system consisting of: 19,345 Linear Feet - 8" gravity main, 1,350 Linear Feet - 10" gravity main, 4,800 Linear Feet - 8" force main, 105 service laterals, and two lift stations. The water distribution system improvements included: 11,190 Linear Feet - 6" main, 10,875 Linear Feet - 8" main, 5,205 Linear Feet - 10" main, 3,690 Linear Feet - 12" main, and 630 Linear Feet - 16" main.</b>							
b.	(1) TITLE AND LOCATION (City and State) <b>River Oaks Neighborhood Drainage Project</b> <b>Fort Lauderdale, Florida</b>	(2) YEAR COMPLETED <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; border-bottom: 1px solid black; text-align: center;">PROFESSIONAL SERVICES</td> <td style="width: 50%; border-bottom: 1px solid black; text-align: center;">CONSTRUCTION (If applicable)</td> </tr> <tr> <td style="text-align: center; font-size: 1.2em;">2016 - 2018</td> <td style="text-align: center; font-size: 1.2em;">2022 - 2024</td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	2016 - 2018	2022 - 2024
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)					
	2016 - 2018	2022 - 2024					
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Improvements included: 12,677 Linear Feet of swale re-grading, 5,346 Linear Feet of pipe removal, removal of 251 structures, installation of 90 Linear Feet of 15" storm sewer, 4,374 Linear Feet of 18" storm sewer, 4,675 Linear Feet of 24" storm sewer, 1,771 Linear Feet of 36" storm sewer, 145 Linear Feet of 48" storm sewer, 3,129 Linear Feet of 66" diameter storm sewer, 1,056 Linear Feet of 72" storm sewer, 2,640 Linear Feet of 24" exfiltration trench, 236 drainage structures, 2 - STORMCEPTER water quality structures, a TIDEFLEX backflow prevention valve, and 4,219 Linear Feet of sidewalk. one small stormwater pump station, &amp; one large stormwater pump station.</b>							
c.	(1) TITLE AND LOCATION (City and State) <b>Eastside Master Infrastructure Project - Phases 2 &amp; 3</b> <b>Davie, Florida</b>	(2) YEAR COMPLETED <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; border-bottom: 1px solid black; text-align: center;">PROFESSIONAL SERVICES</td> <td style="width: 50%; border-bottom: 1px solid black; text-align: center;">CONSTRUCTION (If applicable)</td> </tr> <tr> <td style="text-align: center; font-size: 1.2em;">2015</td> <td style="text-align: center; font-size: 1.2em;">2018</td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	2015	2018
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)					
	2015	2018					
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Managed the design &amp; permitting of the project which consisted of 340 acres of infrastructure rehabilitation. The drainage/roadway work consisted of: 22,763 Linear Feet of roadway reconstruction; 41,000 SY of swale regrading; 18,940 Linear Feet of storm sewer; 12,450 SY of sidewalk; 7,400 SY of driveway restoration; and 146 storm structures; The water distribution included: 14,800 Linear Feet of 6" main; 5,075 Linear Feet of 8" main; and 5,140 Linear Feet of 12" main. The sanitary improvements included: 11,455 Linear Feet of 8" pipe; and 2,945 Linear Feet of 16" forcemain.</b>							
d.	(1) TITLE AND LOCATION (City and State) <b>Pump Station A-13 &amp; Sewer Redirection East of Federal Highway</b> <b>Fort Lauderdale, Florida</b>	(2) YEAR COMPLETED <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; border-bottom: 1px solid black; text-align: center;">PROFESSIONAL SERVICES</td> <td style="width: 50%; border-bottom: 1px solid black; text-align: center;">CONSTRUCTION (If applicable)</td> </tr> <tr> <td style="text-align: center; font-size: 1.2em;">2015</td> <td style="text-align: center; font-size: 1.2em;">2019</td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	2015	2019
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)					
	2015	2019					
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>This project was for the construction of Lift Station A-13, located at the southeast corner of Southeast 2<sup>nd</sup> Court and Southeast 8<sup>th</sup> Avenue. The project scope included the construction of an 18-inch diameter gravity sanitary sewer system and the connection to an existing active sanitary sewer manhole located at the intersection of Federal Highway and Broward Boulevard to the new lift station.</b>							



**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**  
(Complete one Section E for each key person.)

12. NAME Douglas R. Taylor, P.E.	13. ROLE IN THIS CONTRACT Civil Engineer	14. YEARS EXPERIENCE a. TOTAL 40	b. WITH CURRENT FIRM 13
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15. FIRM NAME AND LOCATION (City and State)  
Craven Thompson & Associates, Inc., 3563 NW 53<sup>rd</sup> Street, Fort Lauderdale, Florida 33309

16. EDUCATION (DEGREE AND SPECIALIZATION) University of Illinois (UIUC) Bachelor of Civil Engineering (1984)	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer - Florida No. 50569 (1996) Professional Engineer - IL No. 44542 (1988)
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)  
-FEMA ICS 100,200,700,800 - FEMA G300, G400) -Florida Green Building Council -Florida Redevelopment Association, APWA

**19. RELEVANT PROJECTS**

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
Miramar Historic Area Complete Streets Project – Phase II Miramar, Florida	PROFESSIONAL SERVICES 2017 - 2019	CONSTRUCTION (if applicable) 2019
a. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager - Craven Thompson was selected by the City for Phase II of their Historical Area Complete Streets Project. The project included surveying, landscape and engineering design, permitting and construction services for complete streets in the Historic Area. The project included six (6) streets in the Historical Area. The improvements included: sidewalks, ADA ramps, crosswalks, pedestrian level lighting, landscaping & hardscape.		
SW 36 <sup>th</sup> Street Improvements Davie, Florida	PROFESSIONAL SERVICES 2015	CONSTRUCTION (if applicable) 2019
b. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Senior Engineer - The project consisted of roadway, roadway drainage, utility and landscape/hardscape improvements to SW 36 <sup>th</sup> Street in Davie, Florida. The existing roadway section was approximately 22' wide and was expanded to 25' wide. SW 36 <sup>th</sup> Street was designed as a two (2) lane divided boulevard from College Avenue to SW 76 <sup>th</sup> Avenue within a 75-foot public right-of-way width.		
Kimberly Boulevard Complete Streets Project North Lauderdale, Florida	PROFESSIONAL SERVICES 2018 - 2021	CONSTRUCTION (if applicable) 2023
c. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager for the Design and permitting of 1.2 miles of roadway, bicycle lane, median enhancements, a roundabout, landscaping, hardscape and lane reduction for an existing four-lane roadway subject to speeding and traffic accidents between autos, pedestrians, and bicyclists. Craven Thompson is providing survey, civil engineering, landscape architecture and construction administration and inspection services.		
Plantation El Dorado Neighborhood Drainage Improvements, Plantation, Florida	PROFESSIONAL SERVICES 2017 - 2019	CONSTRUCTION (if applicable) 2020
d. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Improvements included: 3,072 linear feet of swale re-grading, 1,963 linear feet of storm pipe removal, the installation of 930 linear feet of 15" diameter storm sewer, 160 linear feet of 18" diameter storm sewer, 768 linear feet of 24" diameter storm sewer, 105 linear feet of 30" diameter storm sewer, and the installation of 48 of 30" diameter ADS drainage structures. Restoration of the disturbed right-of-way areas were also included.		
Historic Miramar Drainage Infrastructure Improvements Project - Phase IV, Miramar, Florida	PROFESSIONAL SERVICES 2018 - 2021	CONSTRUCTION (if applicable) 2022 - 2023
e. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Senior Engineer - The improvements constructed to alleviate the flooding included: 85,942 linear feet of re-graded swales, 205 new drainage structures, 17,598 linear feet of valley gutter, 3,000 linear feet of 15" diameter RCP storm sewer, 19,141 linear feet of 24" diameter exfiltration trench, pavement milling and overlay, 8 outfall replacement / rehabilitations, driveway removal and replacement, pavement marking & signage, various other right-of-way restoration improvements.		



**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**  
(Complete one Section E for each key person.)

<b>12. NAME</b> Chad E. Edwards, P.E.	<b>13. ROLE IN THIS CONTRACT</b> Civil Engineer	<b>14. YEARS EXPERIENCE</b> <table border="1"> <tr> <td>a. TOTAL 26</td> <td>b. WITH CURRENT FIRM 24</td> </tr> </table>		a. TOTAL 26	b. WITH CURRENT FIRM 24
a. TOTAL 26	b. WITH CURRENT FIRM 24				
<b>15. FIRM NAME AND LOCATION (City and State)</b> Craven Thompson & Associates, Inc., 3563 NW 53 <sup>rd</sup> Street, Fort Lauderdale, Florida 33309					
<b>16. EDUCATION (DEGREE AND SPECIALIZATION)</b> Clarkson University, Potsdam, New York (1997) Bachelor of Science - Civil Engineering Major with Environmental Concentration		<b>17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)</b> Professional Engineer - Florida No. 59306 (2003)			
<b>18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)</b>					

**19. RELEVANT PROJECTS**

<b>(1) TITLE AND LOCATION (City and State)</b> Parkland Library Expansion Parkland, Florida	<b>(2) YEAR COMPLETED</b> <table border="1"> <tr> <td>PROFESSIONAL SERVICES 2017 - 2019</td> <td>CONSTRUCTION (If applicable) 2019 - 2020</td> </tr> </table>		PROFESSIONAL SERVICES 2017 - 2019	CONSTRUCTION (If applicable) 2019 - 2020
PROFESSIONAL SERVICES 2017 - 2019	CONSTRUCTION (If applicable) 2019 - 2020			
<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> <input checked="" type="checkbox"/> Check if project performed with current firm a. Civil Engineer - The City's objective was to have design professionals design a functional and effective expansion to the existing City Library facility located at the Municipal Complex, 6620 University Drive, Parkland, Florida with a strong emphasis on efficient space utilization and effective site aesthetics. The size of the expansion was 6,900 square feet, a separate space for children and families, and a multi-purpose program area.				
<b>(1) TITLE AND LOCATION (City and State)</b> Fire Station 13 Fort Lauderdale, Florida	<b>(2) YEAR COMPLETED</b> <table border="1"> <tr> <td>PROFESSIONAL SERVICES 2020 - Present</td> <td>CONSTRUCTION (If applicable) To Be Determined</td> </tr> </table>		PROFESSIONAL SERVICES 2020 - Present	CONSTRUCTION (If applicable) To Be Determined
PROFESSIONAL SERVICES 2020 - Present	CONSTRUCTION (If applicable) To Be Determined			
<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> <input checked="" type="checkbox"/> Check if project performed with current firm b. Lead Civil Engineer - Craven Thompson is currently providing Civil Engineering, Planning, and Landscape Architecture Services for the new Fire Station No. 13 in the City of Fort Lauderdale located at 2871 East Sunrise Boulevard. The new fire station will replace the existing fire station on the same site. The proposed station will be approximately 10,000-12,000 square feet with three bays housing twelve firefighters. The new facility will be three stories.				
<b>(1) TITLE AND LOCATION (City and State)</b> Stunson Nature Trail Oakland Park, Florida	<b>(2) YEAR COMPLETED</b> <table border="1"> <tr> <td>PROFESSIONAL SERVICES 2016 - 2019</td> <td>CONSTRUCTION (If applicable) 2019</td> </tr> </table>		PROFESSIONAL SERVICES 2016 - 2019	CONSTRUCTION (If applicable) 2019
PROFESSIONAL SERVICES 2016 - 2019	CONSTRUCTION (If applicable) 2019			
<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> <input checked="" type="checkbox"/> Check if project performed with current firm c. Civil Engineer - The City of Oakland Park recently converted an underutilized piece of land used primarily for the storage of stormwater runoff into a park. The site continues to support stormwater runoff, but now connects a string of County and City parks, further providing open space and natural habitats for the community. Stunson Nature Trail is located in the Royal Palm Acres Neighborhood in the City of Oakland Park.				
<b>(1) TITLE AND LOCATION (City and State)</b> Nob Hill Soccer Park Sunrise, Florida	<b>(2) YEAR COMPLETED</b> <table border="1"> <tr> <td>PROFESSIONAL SERVICES 2017 - 2020</td> <td>CONSTRUCTION (If applicable) 2023</td> </tr> </table>		PROFESSIONAL SERVICES 2017 - 2020	CONSTRUCTION (If applicable) 2023
PROFESSIONAL SERVICES 2017 - 2020	CONSTRUCTION (If applicable) 2023			
<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> <input checked="" type="checkbox"/> Check if project performed with current firm d. The project scope included the following major elements: Removal and replacement of three existing soccer fields, drainage improvements and synthetic turf for Fields 1 and 2, drainage improvements for Field 3, the addition of new toddler playground at SE corner of existing community building, a new shade structure, safety surface, fence and access to existing adjacent playground at Nob Hill Elementary School, the refurbishment of the existing aluminum & concrete perimeter fence, and ADA compliance improvements for the overall site.				
<b>(1) TITLE AND LOCATION (City and State)</b> Sportsplex Sunrise, Florida	<b>(2) YEAR COMPLETED</b> <table border="1"> <tr> <td>PROFESSIONAL SERVICES 2017-2018</td> <td>CONSTRUCTION (If applicable) 2018-2019</td> </tr> </table>		PROFESSIONAL SERVICES 2017-2018	CONSTRUCTION (If applicable) 2018-2019
PROFESSIONAL SERVICES 2017-2018	CONSTRUCTION (If applicable) 2018-2019			
<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> <input checked="" type="checkbox"/> Check if project performed with current firm e. Mr. Edwards was the lead for civil engineering design & permitting services for Sunrise Sportsplex. In general, the project included: Four baseball fields, two Soccer fields or one Multi-Use Soccer / Football Field, Dugouts, Bleachers, concession, restroom, meeting space/ scorer's building, restroom / maintenance building for the Soccer Fields, Two playgrounds, sports lighting, batting cages, parking lots with entry signage, Southbound Right turn lane on Pine Island Road, and Pedestrian connections to West Pine Middle School				



**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**  
(Complete one Section E for each key person.)

12. NAME Leonard "Zach" Gamble, P.E.	13. ROLE IN THIS CONTRACT Civil Engineer	14. YEARS EXPERIENCE a. TOTAL 22 b. WITH CURRENT FIRM 18	
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15. FIRM NAME AND LOCATION (City and State) Craven Thompson & Associates, Inc., 4723 W. Atlantic Avenue, Suite 12A, Delray Beach, Florida 33445
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16. EDUCATION (DEGREE AND SPECIALIZATION) North Carolina State University (2002) Bachelor of Science in Mechanical Engineering	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer - Florida No. 65921 (2007)
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)
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**19. RELEVANT PROJECTS**

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
Swain Boulevard Complete Streets Improvements Greenacres, Florida	PROFESSIONAL SERVICES 2021 - 2023	CONSTRUCTION (If applicable) 2024
<div> <div>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</div> <div> <input checked="" type="checkbox"/> Check if project performed with current firm </div> </div> <div> <p>a. Project Manager - Mr. Gamble is managing the design and permitting of the Swain Boulevard Complete Streets Project which is a 4,500 linear foot project running from Lake Worth Road to 10<sup>th</sup> Avenue North. The project includes bicycle lanes of both sides of the street, sidewalks, parallel parking, landscape, hardscape and drainage. It also includes traffic circles at 1<sup>st</sup> Street, and 4<sup>th</sup> Street.</p> </div>		
(1) TITLE AND LOCATION (City and State) Chickasaw Road Improvements and Piping of LWDD L-11 Canal Greenacres, Florida	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2021	CONSTRUCTION (If applicable) 2023
<div> <div>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</div> <div> <input checked="" type="checkbox"/> Check if project performed with current firm </div> </div> <div> <p>b. Project Manager - Chickasaw Road project includes the complete reconstruction of 1,607 LF of roadway, replacement of the roadway drainage system, and piping of the LWDD L-11 canal from Jog Road to just past the end of Chickasaw Road approximately 1,528 LF. CTA worked with Tommy Strowd and Nicole Smith from LWDD regarding the LWDD requirements.</p> </div>		
(1) TITLE AND LOCATION (City and State) 2 <sup>nd</sup> Street Traffic Circle and Sidewalk Improvements Greenacres, Florida	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2020	CONSTRUCTION (If applicable) 2023
<div> <div>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</div> <div> <input checked="" type="checkbox"/> Check if project performed with current firm </div> </div> <div> <p>c. Project Manager - Mr. Gamble designed and permitted a traffic circle at 2<sup>nd</sup> Street and Swain Boulevard in Greenacres. This included landscape, hardscape and a clock feature within the circle. Curb &amp; gutter, sidewalk and drainage were included along with other utility adjustments and relocations. The project also included: 18,300 feet (3.14 miles) of proposed sidewalk, &amp; ADA improvements as well as drainage design for drainage in conflict with proposed sidewalk. The project was permitted through the Lake Worth Drainage District (LWDD).</p> </div>		
(1) TITLE AND LOCATION (City and State) City Engineer (Employed with Craven Thompson) Greenacres, Florida	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2015	CONSTRUCTION (If applicable) Present
<div> <div>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</div> <div> <input checked="" type="checkbox"/> Check if project performed with current firm </div> </div> <div> <p>d. City Engineer - Mr. Gamble has served as the City Engineer for Greenacres for over five years. He spends a minimum of one day per week in City offices tending to day-to-day City Engineer duties. He represents the City before public groups and agencies; prepares engineering studies and reports; provides civil engineering design services, including paving, drainage, water distribution, sanitary sewer and sewage lift stations; provides roadway design services; prepares construction documents; prepares construction cost estimates; prepares and processes permit applications.</p> </div>		
(1) TITLE AND LOCATION (City and State) Dillman Trail Improvements Greenacres, Florida	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2020	CONSTRUCTION (If applicable) 2021
<div> <div>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</div> <div> <input checked="" type="checkbox"/> Check if project performed with current firm </div> </div> <div> <p>e. Project Manager - Trail is a TPA funded FDOT LAP Project. The City of Greenacres is the local agency for a 3,964 LF meandering 12' wide multi-use pathway and associated drainage swale, landscape, and irrigation system running north south connecting pathways between S.R. 882 Forest Hill Boulevard and Dillman Road.</p> </div>		



**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**  
(Complete one Section E for each key person.)

12. NAME Luis Pimentel, P.E.	13. ROLE IN THIS CONTRACT Civil Engineer	14. YEARS EXPERIENCE	
		a. TOTAL 18	b. WITH CURRENT FIRM 10
15. FIRM NAME AND LOCATION (City and State) Craven Thompson & Associates, Inc., 3563 NW 53 <sup>rd</sup> Street, Fort Lauderdale, Florida 33309			
16. EDUCATION (DEGREE AND SPECIALIZATION) Bachelor of Science - Civil Engineering Florida International University (2008)		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer - Florida No. 86616 (2018)	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			

19. RELEVANT PROJECTS			
a.	(1) TITLE AND LOCATION (City and State) Seminole Hollywood Reservation Stormwater Master Plan Hollywood, Florida	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2021 - 2023	CONSTRUCTION (If applicable) Not Applicable
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager. Mr. Pimentel developed a stormwater master plan inclusive of data collection, basin delineation, stormwater modeling and analysis, alternative development and evaluation, and a prioritized capital improvement plan (CIP) that considered land uses as well as future environmental conditions. impacts of sea-level rise and global warming.		
b.	(1) TITLE AND LOCATION (City and State) Ranches Neighborhood Drainage Improvements Parkland, Florida	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2022 - 2023	CONSTRUCTION (If applicable) 2024
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager. Mr. Pimentel developed and stormwater model, and designed improvements for the Ranches Neighborhood in Parkland, Florida. Improvements included: dredging of existing canals, new culverts, new catch basins and associated piping, control structures, and a new stormwater pumping station tributary to the Hillsboro Canal. Craven Thompson performed surveying services, stormwater modeling, drainage design, and permitting services for the project. Environmental permitting is through Broward County who has delegated authority from the SFWMD.		
c.	(1) TITLE AND LOCATION (City and State) Miami Gardens Livable Neighborhoods Vista Verde Phases 1C, 1D, 2, and 3, Miami Gardens, Florida	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2017 - 2019	CONSTRUCTION (If applicable) 2019 - 2020
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Civil Engineer. Assisted in the design and permitting of stormwater improvements for multiple areas within the Vista Verde neighborhood in the City of Miami Gardens. Improvements included: 7,280 linear feet of storm sewer, 5,640 linear feet of exfiltration trench, 140 drainage structures, 30,050 SY of roadway milling & resurfacing, and 29,900 SY of roadway reconstruction.		
d.	(1) TITLE AND LOCATION (City and State) El Dorado Neighborhood Drainage Improvements Plantation, Florida	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2017 - 2019	CONSTRUCTION (If applicable) 2020
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Engineer. The neighborhood is 123 acres in size and is bounded by the Plantation Golf Estates Neighborhood to the northeast, West Broward Boulevard to the north, South University Drive to the west, and the Royal Palm Estates neighborhood to the south. Improvements include: 3,072 linear feet of swale re-grading, 1,963 linear feet of storm pipe removal, installation of 930 linear feet of 15" diameter storm sewer, 160 linear feet of 18" diameter storm sewer, 768 linear feet of 24" diameter storm sewer, 105 linear feet of 30" diameter storm sewer, installation of 48 - 30" diameter ADS drainage structures. Restoration of the disturbed right-of-way areas was also included.		



**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**  
(Complete one Section E for each key person.)

12. NAME Philip Joseph, P.E.	13. ROLE IN THIS CONTRACT Civil Engineer	14. YEARS EXPERIENCE a. TOTAL 30 b. WITH CURRENT FIRM 20	
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15. FIRM NAME AND LOCATION (City and State)  
Craven Thompson & Associates, Inc., 3563 NW 53<sup>rd</sup> Street, Fort Lauderdale, Florida 33309

16. EDUCATION (DEGREE AND SPECIALIZATION)  
- FAU, Boca Raton - Master - Business Administration (2001)  
- FAU, Boca Raton - MS in Mechanical Engineering (1993)

17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)  
Professional Engineer - Florida No. 50825 (1996)

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)  
Member, American Society of Mechanical Engineers, Computer Skills: AutoCAD, MicroStation, SewerCAD, WaterCAD,

**19. RELEVANT PROJECTS**

(1) TITLE AND LOCATION (City and State) Master Lift Station W-14 Upgrade Hollywood, Florida	(2) YEAR COMPLETED PROFESSIONAL SERVICES 2017 CONSTRUCTION (If applicable) 2020	
a. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Engineer - Mr. Joseph provided design and permitting services for the upgraded Government Center system including: 4,830 linear feet of 4" diameter main, 67 water services, and 12 gate valves along with 2,800 square yards of pavement restoration.	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION (City and State) Lift Station A-6 Upgrade Hollywood, Florida	(2) YEAR COMPLETED PROFESSIONAL SERVICES 2015 CONSTRUCTION (If applicable) 2018	
b. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Engineer - This project involved the reconstruction of sanitary sewer Lift Station A6 which included the replacement of the existing suction lift pump station with a new wet well, submersible pumps, converting the existing wet well into a manhole, valve vault, panels, SCADA system as well as hardscape and landscaping. The pumps were designed as variable frequency drives in order to meet the flow-pressure requirements provided by the city.	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION (City and State) Government Center Commercial Alleyways 2" Watermain Replacement - Phase 1, North Miami Beach, Florida	(2) YEAR COMPLETED PROFESSIONAL SERVICES 2017 CONSTRUCTION (If applicable) 2020	
c. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Engineer - Mr. Joseph provided design and permitting services for the upgraded Government Center system including: 4,830 linear feet of 4" diameter main, 67 water services, and 12 gate valves along with 2,800 square yards of pavement restoration	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION (City and State) Triplex Lift Station 50B Rehabilitation Lauderdale Lakes, Florida	(2) YEAR COMPLETED PROFESSIONAL SERVICES 2020 - 2021 CONSTRUCTION (If applicable) 2021	
d. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Joseph assisted with design, permitting, bidding, and construction management/administration of the 12' diameter wet well, replacement of the valve pit, all new internal piping and valves, a new emergency generator, and replacement of the control panel. This project involved the construction of a submersible triplex station including new 20 HP HOMA submersible pumps, 10" diameter piping, a 12' diameter wet well, valve box, control panel and a new emergency generator. The station was designed to pump 1,760 gallons per minute at 51 feet of head.	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION (City and State) Septic Tank Elimination Program District 3, Area 3A-R Project Dania Beach, Florida	(2) YEAR COMPLETED PROFESSIONAL SERVICES 2016 CONSTRUCTION (If applicable) 2018	
e. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Installation of approximately four hundred (400') feet of new gravity sewer system and four hundred (400') feet of 6" water main on SW 28 <sup>th</sup> Terrace and north of SW 45 <sup>th</sup> Street in Dania Beach to provide service to approximately eight (8) properties.	<input checked="" type="checkbox"/> Check if project performed with current firm	



**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**  
(Complete one Section E for each key person.)

12. NAME Gary Tenn, P.E.	13. ROLE IN THIS CONTRACT Civil Engineer	14. YEARS EXPERIENCE	
		a. TOTAL 43	b. WITH CURRENT FIRM 10
15. FIRM NAME AND LOCATION (City and State) Craven Thompson & Associates, Inc., 3563 NW 53 <sup>rd</sup> Street, Fort Lauderdale, Florida 33309			
16. EDUCATION (DEGREE AND SPECIALIZATION) Bachelor of Science - Civil Engineering University of Windsor, Ontario, Canada (1979)		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer - Florida No. 42099 (1989)	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			

**19. RELEVANT PROJECTS**

a.	(1) TITLE AND LOCATION (City and State) Central Broward Water Control District – District Engineer Davie/Southwest Ranches/Cooper City, Florida	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2007 (2022) – Present	CONSTRUCTION (If applicable) Varies
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Reviews and recommends approval of all drainage projects within the CBWCD; reviews variance requests; serves on the Development Review Committee; attends Board meetings; and prepares construction plans for capital improvement projects. Services to the District includes plan and Constructability Review; engineering studies and reports; plan reviews, surveying; design & permitting for capital improvement projects; construction services. <input checked="" type="checkbox"/> Check if project performed with current firm		
b.	(1) TITLE AND LOCATION (City and State) Driftwood Septic to Sewer Conversion & Watermain Hollywood, Florida	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2018 - 2021	CONSTRUCTION (If applicable) 2022 - 2025
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager - Craven Thompson performed mobile LiDAR surveying, water meter use analysis, gravity sanitary sewer and force main system modeling and calibration, design, permitting and limited construction inspection of approximately 81,654 linear feet of 8" to 18" gravity sewer main, 16,598 linear feet of 8" to 30" force main, 9,416 linear feet of 16" reclaimed water main design. <input checked="" type="checkbox"/> Check if project performed with current firm		
c.	(1) TITLE AND LOCATION (City and State) Hollywood HMGP Grant Emergency Generators for Lift Stations E-01, W-14, & W-15, Hollywood, Florida	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2020 - 2023	CONSTRUCTION (If applicable) 2024
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE The City of Hollywood was awarded grants from the State of Florida Department of Emergency Management (FDEM) as part of the Federal Emergency Management Agency (FEMA) Hazard Mitigation Grant Program (HMGP) program to install backup electrical power generators for lift stations E-01, W-14, and W-15. Our team was selected to provide surveying, planning, administrative services, design, permitting, preparation of preconstruction and project coordination activities, preparation of generator startup reports, coordination with the City and FEMA, permitting, engineering support services and construction engineering inspection for the projects. <input checked="" type="checkbox"/> Check if project performed with current firm		
d.	(1) TITLE AND LOCATION (City and State) Miami Gardens Livable Neighborhood - Vista Verde Phase 4 Miami Gardens, Florida	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2019 - 2020	CONSTRUCTION (If applicable) 2020 - 2021
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager – A Neighborhood Improvement project located adjacent to the South Florida Water Management District (SFWMD) C-9 Canal. Mr. Tenn managed the drainage design and permitting for this 17-acre site, coordinated utility conflicts with Miami-Dade Water and Sewer Department (MD-WASAD) and other underground responsible agencies. Mr. Tenn secured environmental, and drainage permits from Miami-Dade DERM, Right-Of-Way permit from SFWMD and Section 408 request approval and Nationwide Permit from the Army Corps of Engineers (ACE) for the drainage outfall into the C-9 Canal. <input checked="" type="checkbox"/> Check if project performed with current firm		
e.	(1) TITLE AND LOCATION (City and State) Septic Tank Elimination Program, District 3A, 3A-R Dania Beach, Florida	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2016	CONSTRUCTION (If applicable) 2018
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager - This project included the installation of approximately four hundred (400') feet of new gravity sewer system and four hundred (400') feet of 6" water main on SW 28 <sup>th</sup> Terrace and north of SW 45 <sup>th</sup> Street in Dania Beach to provide service to approximately eight (8) properties. <input checked="" type="checkbox"/> Check if project performed with current firm		



**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**  
(Complete one Section E for each key person.)

12. NAME Robert M. Connors, P.E.	13. ROLE IN THIS CONTRACT Civil Engineer	14. YEARS EXPERIENCE	
		a. TOTAL 40	b. WITH CURRENT FIRM 33
15. FIRM NAME AND LOCATION (City and State) Craven Thompson & Associates, Inc., 3563 NW 53 <sup>rd</sup> Street, Fort Lauderdale, Florida 33309			
16. EDUCATION (DEGREE AND SPECIALIZATION) University of Florida, Gainesville, Florida (1984) Bachelor of Science - Civil Engineering		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer - Florida No. 41863 (1989)	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Florida Engineering Society (FES)			

**19. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
a.	Triplex Wastewater Pump Station No. 8 DCP Hallandale Beach, Florida	2017	2020
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Engineer - The submersible tri-plex station has three (3) 60HP Myers 6VC600M4-43 pumps in a ten (10) foot diameter wet well. The station pumps 1140 GPM @ 117' TDH.		
b.	Septic Tank Elimination Program District 1, Area 1-F Pompano Beach, Florida	2017	2018
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Engineer - Provided professional consulting services to the County including surveying, design, regulatory permitting services, and cost estimating for the project. The project involved installation seven hundred (700') feet of new gravity sewer system on NE 62 <sup>nd</sup> Court from NE 9 <sup>th</sup> Avenue to Dixie Highway in Fort Lauderdale to eliminate septic tanks and provide service to 6241 North Dixie Highway.		
c.	Utility Analysis Zone (UAZ) 108 Lauderdale Lakes, Florida	2016 - 2019	2024
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project includes the construction of a sanitary sewer collection system consisting of 26,875 linear feet of 8" gravity main, 1,395 linear feet of 10" gravity main, 2,790 linear feet of 12" gravity main, 1,530 linear feet of 6" force main, 3,630 linear feet of 8" force main, 1,350 linear feet of 10" force main, 1,140 linear feet of 16" force main, and 452 service laterals.		
d.	Utility Analysis Zone (UAZ) 122 Lauderdale Lakes, Florida	2016	2021
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Engineer - The project included the construction of a sanitary sewer collection system consisting of: 19,345 linear feet of 8" gravity main, 1,350 linear feet of 10" gravity main, 4,800 linear feet of 8" force main, and 105 service laterals.		
e.	Master Pump Station 224 Rehabilitation Lighthouse Point, Florida	2018 - 2019	2021
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Engineer Rehabilitated existing Master Pump Station 224 including wet well rehabilitation, by-pass system, replacement of piping, pumps, panels, electrical services, valves, water proof vaults, hatches, SCADA instrumentation within the parcel of MPS 224.		



## E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

*(Complete one Section E for each key person.)*

12. NAME <b>Brian Tull</b>	13. ROLE IN THIS CONTRACT <b>Construction Manager</b>	14. YEARS EXPERIENCE a. TOTAL <b>24</b> b. WITH CURRENT FIRM <b>17</b>	
15. FIRM NAME AND LOCATION (City and State) <b>Craven Thompson &amp; Associates, Inc., 3563 NW 53<sup>rd</sup> Street, Fort Lauderdale, Florida 33309</b>			
16. EDUCATION (DEGREE AND SPECIALIZATION) <b>Certified for Troxler Nuclear Testing (2009) United States Navy - Mechanical and Safety Inspector on F-14 Tomcat Aircraft</b>		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) <b>Mr. Tull is a Construction Manager with 24 years of experience in all phases of construction in civil design and inspections on residential, commercial, and governmental projects.</b>			

### 19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Utility Analysis Zone (UAZ) 122 Lauderdale Lakes, Florida	PROFESSIONAL SERVICES 2016	CONSTRUCTION (If applicable) 2021
a.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Responsible for Construction Engineering Inspection services for UAZ 122. The project included the construction of a sanitary sewer collection system consisting of: 19,345 linear feet of 8" gravity main, 1,350 linear feet of 10" gravity main, 4,800 linear feet of 8" force main, 105 service laterals, and two lift stations. The water distribution system improvements included: 11,190 linear feet of 6" main, 10,875 linear feet of 8" main, 5,205 linear feet of 10" main, 3,690 linear feet of 12" main, and 630 linear feet of 16" main.		
	River Oaks Neighborhood Drainage Project Fort Lauderdale, Florida	PROFESSIONAL SERVICES 2016	CONSTRUCTION (If applicable) 2024
b.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Responsible for CEI services. Improvements include: 12,677 linear feet of swale re-grading, 5,346 linear feet of storm pipe removal, removal of 251 storm structures, the installation of 90 linear feet of 15" storm sewer, 4,374 linear feet of 18" storm sewer, 4,675 linear feet of 24" storm sewer, 1,771 linear feet of 36" storm sewer, 145 linear feet of 48" storm sewer, 3,129 linear feet of 66" storm sewer, 1,056 linear feet of 72" storm sewer, 2,640 linear feet of 24" exfiltration trench, 236 drainage structures, 2 (two) STORMCEPTER water quality structures, one TIDEFLEX backflow prevention valve, and 4,219 linear feet of sidewalk.		
	Master Pump Station 224 Rehabilitation Lighthouse Point, Florida	PROFESSIONAL SERVICES 2018 - 2019	CONSTRUCTION (If applicable) 2021
c.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Senior Construction Inspector - Rehabilitated existing Master Pump Station 224 including wet well rehabilitation, bypass system, replacement of piping, pumps, panels, electrical services, valves, waterproof vaults, hatches, SCADA instrumentation within the parcel of MPS 224.		
	Pump Station A-13 & Sewer Redirection East of Federal Highway, Fort Lauderdale, Florida	PROFESSIONAL SERVICES 2015	CONSTRUCTION (If applicable) 2019
d.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Construction Inspector - This project was for the construction of Lift Station A-13, located at the southeast corner of Southeast 2 <sup>nd</sup> Court and Southeast 8 <sup>th</sup> Avenue. The project scope included the construction of an 18-inch diameter gravity sanitary sewer system and the connection to an existing active sanitary sewer manhole located at the intersection of Federal Highway and Broward Boulevard to the new lift station.		
	N-17 Culvert Replacement Project Davie, Florida	PROFESSIONAL SERVICES 2018-2019	CONSTRUCTION (If applicable) 2019
e.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Construction Manager - Craven Thompson finalized the culvert diameter based on the conceptual size developed in the Western C-11 Basin model that we prepared. We designed and prepared paving/grading/drainage plans, details, notes and specifications for the replacement of a segment of the N-17 Culvert.		



**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**  
(Complete one Section E for each key person.)

12. NAME Jeff LaBelle	13. ROLE IN THIS CONTRACT Construction Manager	14. YEARS EXPERIENCE	
		a. TOTAL 43	b. WITH CURRENT FIRM 10

15. FIRM NAME AND LOCATION (City and State)  
Craven Thompson & Associates, Inc., 3563 NW 53<sup>rd</sup> Street, Fort Lauderdale, Florida 33309

16. EDUCATION (DEGREE AND SPECIALIZATION)  
17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)  
TIN# L14042158

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)  
CTQP Asphalt Paving Level 1&2; CTQP Drilled Shaft Inspection; CTQP Earthwork Construction Inspection Level 1&2; CTQP QC Manager; CTQP Final Estimates Level 1&2; CTQP Concrete Field Tech 1; CTQP FDOT Concrete Field Inspector Specification; IMSA Traffic Signal Insp. Level 1; ACI Concrete Field Tech. Grade 1; Boart Longyear-Nuclear Density Gauge; IMSA Traffic Signal Tech. Level II; Nuclear Gauge Radiation Safety; Hazmat Certification; FDOT Advanced Temporary Traffic Control; Critical Structures Const

**19. RELEVANT PROJECTS**

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
Utility Analysis Zone (UAZ) 108 Lauderdale Lakes, Florida	PROFESSIONAL SERVICES 2016	CONSTRUCTION (If applicable) 2023
a. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Construction Manager - The project included the construction of a sanitary sewer collection system consisting of: 26,875 LF of 8" gravity main, 1,395 LF of 10" gravity main, 2,790 LF of 12" gravity main, 1,530 LF of 6" force main, 3,630 LF of 8" force main, 1,350 LF of 10" force main, 1,140 LF of 16" force main, and two lift stations. The water distribution system improvements included: 24,560 LF of 6" main, 8,450 LF of 8" main, 6,300 LF of 10" main, 975 LF of 12" main, 150 LF of 16" main, and 1,425 LF of 20" main.		
(1) TITLE AND LOCATION (City and State) Miramar Parkway Construction from I-75 to Flamingo Road Miramar, Florida	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2010 - 2013	CONSTRUCTION (If applicable) 2012 - 2015
b. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Senior Roadway Inspector - Responsible for verifying quantities and construction inspection of reconstruction of two plus miles of a six-lane facility including a large diameter arch plate culvert, fabric formed canal revetment, subsoil excavation, bike lanes, sidewalk, drainage system, asphalt paving, street lighting, signalization, landscaping, irrigation system, signing and pavement markings.		
(1) TITLE AND LOCATION (City and State) Sunrise Boulevard from Hiatus Road to Pine Island Road Broward County, Florida	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2005	CONSTRUCTION (If applicable) 2007
c. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Project Administrator - Responsible for responding to RFI's and plan interpretation. Widening and overbuild of an existing four-lane divided facility to a six-lane divided facility, including sidewalk, subsoil excavation, drainage, signalization, street lighting, landscaping, irrigation and signing & pavement markings.		
(1) TITLE AND LOCATION (City and State) NW 21st Avenue from NW 19th Street to Oakland Park Boulevard Broward County, Florida	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2009	CONSTRUCTION (If applicable) 2011
d. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Project Administrator - Responsible for responding to RFI's, Change Orders, Pay Requests plan interpretation, field inspections for this project involving the reconstruction of the existing three-lane facility, including bike lanes, sidewalk, 8-inch ductile iron (DIP) water main, 6-inch force main, drainage system including jacked 72-inch RCP under the CSX R/R, asphalt paving, street lighting, upgrading the signalization system, landscaping, irrigation system, signing and pavement markings.		
(1) TITLE AND LOCATION (City and State) I-595 Express Corridor Improvement (\$1.25 B) P3 Project Broward County, Florida	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2006 - 2009	CONSTRUCTION (If applicable) 2009 - 2013
e. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Senior Asphalt Inspector - Florida Department of Transportation \$1.25 Billion I-595 Express Lanes PPP (Public/Private Partnership). As a Senior Asphalt Inspector, worked on this project in all five segments A, B, C, D, E. Responsibilities included asphalt pavement verification testing on the roadway, and contractor adherence to the contract documents & specifications.		



**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**  
(Complete one Section E for each key person.)

12. NAME Rasiel Lopez	13. ROLE IN THIS CONTRACT Construction Inspector	14. YEARS EXPERIENCE	
		a. TOTAL 25	b. WITH CURRENT FIRM 13

15. FIRM NAME AND LOCATION (City and State)

Craven Thompson & Associates, Inc., 3563 N.W. 53<sup>rd</sup> Street, Fort Lauderdale, Florida 33309

16. EDUCATION (DEGREE AND SPECIALIZATION)

17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

- MOT Intermediate certified, Troxler Nuclear safety gauge certified, Asphalt paving level I certified  
Earthwork level I certified, CTQP Currently training for the following certifications: Asphalt paving level II, Earthwork level II, FDOT Concrete Field Tech, Final Estimates I and II, MDC: Fire and Building Safety Codes, OSHA 10hr certified, Stormwater Management Inspector

**19. RELEVANT PROJECTS**

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
Utility Analysis Zone (UAZ) 122 Lauderdale Lakes, Florida	PROFESSIONAL SERVICES 2016	CONSTRUCTION (If applicable) 2021
a. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Senior Construction Inspector - The project includes the construction of a sanitary sewer collection system consisting of: 19,345 LF of 8" gravity main; 1,350 LF of 10" gravity main; 4,800 LF of 8" force main; and 105 service laterals. The water distribution system improvements included: 11,190 LF of 6" main; 10,875 LF of 8" main; 5,205 LF of 10" main; 3,690 LF of 12" main; 630 LF of 16" main.	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION (City and State) Eastside Master Infrastructure Project – Phases 2 & 3 Davie, Florida	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2015	CONSTRUCTION (If applicable) 2018
b. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Senior Construction Inspector - Managed the design & permitting of the project which consisted of 340 acres of infrastructure rehabilitation. The drainage/roadway work consisted of: 22,763 LF of roadway reconstruction; 41,000 SY of swale regrading; 18,940 LF of storm sewer; 12,450 SY of sidewalk; 7,400 SY of driveway restoration; and 146 storm structures; The water distribution included: 14,800 LF of 6" main; 5,075 LF of 8" main; and 5,140 LF of 12" main. The sanitary improvements included: 11,455 LF of 8" pipe; and 2,945 LF of 16" forcemain.	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION (City and State) Master Lift Station W-14 Upgrade Hollywood, Florida	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2016	CONSTRUCTION (If applicable) 2019
c. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Senior Construction Inspector - The project involved the replacement of internal piping to the station wall including valves and fittings, rehabilitation of the existing concrete floor, walls, ceiling, vaults, wet well, dry well, exterior vault, access hatch and concrete pillars, replacement of electrical meter and main, and replacement of motor control panels.	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION (City and State) Utility Analysis Zone (UAZ) 108 Lauderdale Lakes, Florida	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2016	CONSTRUCTION (If applicable) 2023
d. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Senior Construction Inspector - The sanitary collection system consisted of: 26,875 LF of 8" gravity main, 1,395 LF of 10" gravity main, 2,790 LF of 12" gravity main, 1,530 LF of 6" force main, 3,630 LF of 8" force main, 1,350 LF of 10" force main, 1,140 LF of 16" force main, 452 service laterals, and two lift stations. The water distribution system improvements included: 24,560 LF of 6" main, 8,450 LF of 8" main, 6,300 LF of 10" main, 975 LF of 12" main, 150 LF of 16" main, 1,425 LF of 20" main.	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION (City and State) Pump Station A-13 & Sewer Redirection East of Federal Highway, Fort Lauderdale, Florida	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2015	CONSTRUCTION (If applicable) 2019
e. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Senior Construction Inspector - This project was for the construction of Lift Station A-13, located at the southeast corner of Southeast 2 <sup>nd</sup> Court and Southeast 8 <sup>th</sup> Avenue. The project scope included the construction of an 18-inch diameter gravity sanitary sewer system and the connection to an existing active sanitary sewer manhole located at the intersection of Federal Highway and Broward Boulevard to the new lift station.	<input checked="" type="checkbox"/> Check if project performed with current firm	



**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**  
(Complete one Section E for each key person.)

12. NAME Marshall Shedio	13. ROLE IN THIS CONTRACT Construction Inspector	14. YEARS EXPERIENCE	
		a. TOTAL 31	b. WITH CURRENT FIRM 7
15. FIRM NAME AND LOCATION (City and State) Craven Thompson & Associates, Inc., 3563 NW 53 <sup>rd</sup> Street, Fort Lauderdale, Florida 33309			
16. EDUCATION (DEGREE AND SPECIALIZATION)		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)	
		<ul style="list-style-type: none"> <li>FDOT Advanced MOT</li> <li>CTQP TIN# S300541743380</li> <li>FDOT Field Inspector Level I</li> </ul>	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			

**19. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
a.	Utility Analysis Zone (UAZ) 122 Lauderdale Lakes, Florida	2016	2021
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Construction Inspector - The project included the construction of a sanitary sewer collection system consisting of: 19,345 linear feet of 8" gravity main, 1,350 linear feet of 10" gravity main, 4,800 linear feet of 8" force main, 105 service laterals, and two lift stations. The water distribution system improvements included: 11,190 linear feet of 6" main, 10,875 linear feet of 8" main, 5,205 linear feet of 10" main, 3,690 linear feet of 12" main, and 630 linear feet of 16" main.		
b.	South Middle River Force Main Crossing - 16" Redundant Pipe Fort Lauderdale, Florida	2020 - 2021	2020 - 2021
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Construction Inspector - The project involved the installation of 16" nominal OD HDPE Force Main under the South Middle River Waterway, with sections of open cut trench installation of 16" PVC Force Main. The total length of subaqueous crossing of 16" HDPE Force Main is 1092 Linear Feet (LF) in length, with an additional 832 Linear Feet (LF) of 16" PVC Force Main installed by open cut trench.		
c.	Master Lift Station W-14 Upgrade Hollywood, Florida	2016	2019
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Construction Inspector - The rehabilitation for sanitary sewer Lift Station W14 included the modification of the existing stations by replacing the existing pumps based on a wastewater system analysis performed by Craven Thompson, replacement of internal piping to the station wall including valves and fittings, rehabilitation of the existing concrete floor, walls, ceiling, vaults, wet well, dry well, exterior vault, access hatch and concrete pillars, replace electrical meter and main, replace motor control panels and rewire new pumps, new RTU, new SCADA, rewire and replace branch wiring outlets and fixtures, generator with double wall tank with leak detection, etc.		
d.	Lift Station 50B3 Lauderdale Lakes, Florida	2020	2020 - 2021
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Construction Inspector - This is a duplex submersible lift station. The new lift station 50 B3 improvements include construction of an 8' diameter wet well, a new valve pit, internal piping and valves, and a new control panel. Craven Thompson designed, permitted, provided construction engineering and inspection services for the construction of the submersible duplex station including 10 HP AM8434-220 submersible pumps, 10" diameter internal piping, an 8' diameter wet well, valve box, and a control panel. The station was designed to pump 460 gallons per minute at 53 feet of head.		



**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**  
(Complete one Section E for each key person.)

12. NAME Scott W. Peavler, P.L.A.	13. ROLE IN THIS CONTRACT Lead Landscape Architect	14. YEARS EXPERIENCE a. TOTAL 19      b. WITH CURRENT FIRM 15	
15. FIRM NAME AND LOCATION (City and State) Craven Thompson & Associates, Inc., 3563 NW 53 <sup>rd</sup> Street, Fort Lauderdale, Florida 33309			
16. EDUCATION (DEGREE AND SPECIALIZATION) Kansas State University Bachelor in Landscape Architecture (2005)		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Registered Landscape Architect Florida Registration No. LA6666976 (2008)	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Member of American Society of Landscape Architects			

**19. RELEVANT PROJECTS**

a. (1) TITLE AND LOCATION (City and State) Sportsplex Sunrise, Florida	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2017 - 2018	CONSTRUCTION (If applicable) 2018 - 2019
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Landscape Architect - In general, the project included: Four baseball fields, two Soccer fields or one Multi-Use Soccer / Football Field, Dugouts, Bleachers, concession, restroom, meeting space/ scorer's building, restroom / maintenance building for the Soccer Fields, Two playgrounds, sports lighting, batting cages, parking lots with entry signage, Southbound Right turn lane on Pine Island Road, and Pedestrian connections to West Pine Middle School.		
b. (1) TITLE AND LOCATION (City and State) Swain Blvd. Complete Streets Project Greenacres, Florida	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2021 - 2023	CONSTRUCTION (If applicable) 2024
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Landscape Architect - The Swain Boulevard Complete Streets Project is a 4,500 linear foot project running from Lake Worth Road to 10 <sup>th</sup> Avenue North. The project includes bicycle lanes of both sides of the street, sidewalks, parallel parking, landscape, hardscape and drainage. It also includes traffic circles at 1 <sup>st</sup> Street, and 4 <sup>th</sup> Street.		
c. (1) TITLE AND LOCATION (City and State) Miramar Historical Area Complete Streets – Phase II Miramar, Florida	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2017 - 2019	CONSTRUCTION (If applicable) 2019
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Craven Thompson was selected by the City of Miramar for Phase II of their Historical Area Complete Streets Project. The project included surveying, landscape and engineering design, permitting and construction services for complete streets bounded by Pembroke Road to the north, County Line Road to the south, SW 62 <sup>nd</sup> Avenue to the west, and State Road 7 to the east. The project included six (6) streets in the Historical Area. The improvements included: sidewalks, ADA ramps, crosswalks, pedestrian level lighting, landscaping and hardscape.		
d. (1) TITLE AND LOCATION (City and State) Hallandale Beach Blvd. Median Beautification Hallandale Beach, Florida	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2014	CONSTRUCTION (If applicable) 2016
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Craven Thompson & Associates was retained by the City of Hallandale Beach to enhance the aesthetic appeal of Hallandale Beach Boulevard (State Road 858) from Federal Highway to I-95 (within the City limits) through landscaping improvements in the median of the multi-lane state highway. These improvements require review and approval from both the City and the Florida Department of Transportation (FDOT).		
e. (1) TITLE AND LOCATION (City and State) Bluesten Park Hallandale Beach, Florida	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2015 - 2017	CONSTRUCTION (If applicable) 2019 - 2020
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Landscape Architect - The Park included a 42,000 square foot Recreation Center with / Pool and Splash Play Area, Soccer/Multi-Use Field, three (3) Baseball Fields, three (3) Basketball Courts, two (2) Tennis Courts, two (2) Racquetball Courts, boundless ADA inclusive playground, walking trails and pavilions; and full promenade streetscape design for surrounding streets for pedestrian friendly corridors and parallel parking		



**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**  
(Complete one Section E for each key person.)

12. NAME Nicole Pastre, P.L.A.	13. ROLE IN THIS CONTRACT Landscape Architect	14. YEARS EXPERIENCE	
		a. TOTAL 18	b. WITH CURRENT FIRM 4
15. FIRM NAME AND LOCATION (City and State) Craven Thompson & Associates, Inc., 3563 NW 53 <sup>rd</sup> Street, Fort Lauderdale, Florida 33309			
16. EDUCATION (DEGREE AND SPECIALIZATION) University of California, Davis Bachelor in Landscape Architecture (2005)		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Registered Landscape Architect Florida Registration No. LA6667397 (2009)	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			

**19. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
a.	SW 48 <sup>th</sup> Avenue Complete Streets Project West Park, Florida	2022 - 2023	2024
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm The project involves approximately 7,600 linear feet of right-of-way (not including Mary Saunders Park). Improvements that may be included are as follows: paving (milling & resurfacing and reconstruction), complete street elements, such as textured pavement, raised crosswalks, raised intersections, and speed bumps, ADA compliant sidewalks, bicycle lanes, street trees, landscaping, limited irrigation, signage, drainage and pavement marking & signage. This is a Broward County Surtax Project.		
b.	Crescent Creek Homeowner's Association - Landscape Buffer Improvements, Coconut Creek, Florida	2020	2021
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project consisted of improving the streetscape and landscape buffer along the front of an existing single-family development by implementing additional trees, palms, accent plantings and shrub beds along the street for beautification and code compliance.		
c.	Stunson Nature Trail Viewing Platform Oakland Park, Florida	2016 - 2020	2022
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Landscape Architect - Developed construction documents for the installation of a wooden viewing platform and boardwalk within the Stunson Nature Trail Park. Project included landscape design, hardscape design and details for the platform and boardwalk system.		
d.	City of Plantation Landscape Review Services Plantation, Florida	2022 - Present	Not Applicable
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Landscape Architect. Ms. Pastre provides landscape consulting services in regards to Landscape plan reviews for the City of Plantation. The services provided include full landscape reviews, Tree Removal/ Relocation reviews, and other additional landscape matters as they pertain to City landscape codes.		
e.	Sawgrass Wastewater Treatment Plant Irrigation Sunrise, Florida	2021	2022
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Landscape Architect - Ms. Pastre prepared irrigation plans and specifications for the Wastewater Treatment Plant.		



**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**  
(Complete one Section E for each key person.)

12. NAME Erik W. Schofield, P.L.A.	13. ROLE IN THIS CONTRACT Landscape Architect	14. YEARS EXPERIENCE	
		a. TOTAL 24	b. WITH CURRENT FIRM 1
15. FIRM NAME AND LOCATION (City and State) Craven Thompson & Associates, Inc., 3563 NW 53 <sup>rd</sup> Street, Fort Lauderdale, Florida 33309			
16. EDUCATION (DEGREE AND SPECIALIZATION) University of Florida Bachelor of Landscape Architecture (2002)		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Registered Landscape Architect Florida Registration No. LA6667682 (2023)	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			

**19. RELEVANT PROJECTS**

a.	(1) TITLE AND LOCATION (City and State) Solterra Sunrise, Florida	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2023 - 2024	CONSTRUCTION (If applicable) To Be Determined
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Landscape Architect - Presently providing Landscape Architectural services for a 160-acre master planned residential community on a former golf course in the City of Sunrise.			
b.	(1) TITLE AND LOCATION (City and State) Westerra Sunrise, Florida	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2023 - 2024	CONSTRUCTION (If applicable) To Be Determined
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Landscape Architect - Presently providing Landscape Architectural services for an 11-acre master planned mixed use development located in the City of Sunrise. This project includes a proposed air training facility and an 8-story hotel as part of Phase 1.			
c.	(1) TITLE AND LOCATION (City and State) Davie Rodeo Davie, Florida	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2023 - 2024	CONSTRUCTION (If applicable) To Be Determined
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Landscape Architect - Presently providing Landscape Architectural services for a six-story mixed-use multifamily development proposed on two adjacent sites totaling 4 acres in the Town of Davie.			
d.	(1) TITLE AND LOCATION (City and State) Residences at Plantation Plantation, Florida	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2023 - 2024	CONSTRUCTION (If applicable) To Be Determined
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Landscape Architect - Provided landscape architectural services for a mixed-use development on a 5-acre site consisting of a six-story residential tower and bank proposed in the City of Plantation, Florida. Managed project from schematic design through construction completion.			
e.	(1) TITLE AND LOCATION (City and State) Casa Palma Coconut Creek	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2013	CONSTRUCTION (If applicable) 2014
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Provided landscape architectural services for a 25-acre high-end apartment community in the City of Coconut Creek, Florida. Managed project from schematic design through construction completion.			



**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**  
(Complete one Section E for each key person.)

12. NAME Nathan A. Raimondo	13. ROLE IN THIS CONTRACT Landscape Designer	14. YEARS EXPERIENCE	
		a. TOTAL 12	b. WITH CURRENT FIRM 2
15. FIRM NAME AND LOCATION (City and State) Craven Thompson & Associates, Inc., 3563 NW 53 <sup>rd</sup> Street, Fort Lauderdale, Florida 33309			
16. EDUCATION (DEGREE AND SPECIALIZATION) University of Georgia, College of Environment & Design Bachelor of Landscape Architecture (2011)		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			

**19. RELEVANT PROJECTS**

a.	(1) TITLE AND LOCATION (City and State) Golden Shores Urban Trail Sunny Isles Beach, Florida	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2023 - 2024	CONSTRUCTION (If applicable) 2024
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Landscape Designer - Conducted on-site tree inventory and analysis to aide in the design of a multi-use urban trail. Construction details included a concrete path with trail markings, a decorative pedestrian crosswalk, and wooden privacy fencing.		
b.	(1) TITLE AND LOCATION (City and State) Sunset Strip Passive Park Sunrise, Florida	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2023 - 2024	CONSTRUCTION (If applicable) Estimated 2025
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Landscape Designer - Facilitated in the design of tree disposition, hardscape and landscape plans, as well as the development of construction documents for a residential passive park. Site amenities included a looping walking trail with bench seating, bike racks and bike repair station, decorative fencing with entry gates, and entry monument sign. Coordinated with Florida Power & Light to ensure access to overhead powerlines and additional utilities.		
c.	(1) TITLE AND LOCATION (City and State) Shotgun Road Subdivision Davie, Florida	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2023 - 2024	CONSTRUCTION (If applicable) Estimated 2025
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Landscape Designer - Designed tree protection plans and full landscape construction document packages for a 151 single family home development. Amenities include a multi-use path with bench seating, horse trails, a playground, and decorative landscaped berms along the entry drive.		
d.	(1) TITLE AND LOCATION (City and State) Aviara West Pompano Beach, Florida	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2023 - 2024	CONSTRUCTION (If applicable) 2024
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Landscape Designer - Assisted with the design and development of tree protection, landscape, and site plans for a multi-family residential community. Amenities included a walking trail, pool deck with hot tub, and a dog park. CPTED (Crime Prevention Through Environmental Design) Plans were also developed to ensure safety, security, and proper maintenance of the site.		
e.	(1) TITLE AND LOCATION (City and State) Monterra Phase II Cooper City, Florida	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2024	CONSTRUCTION (If applicable) 2024 - 2025
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Landscape Designer - Responsible for conducting site visits to verify tree inventory, analysis, and boundary tree impacts for the development of a self-storage commercial center. Coordinated with architects, civil, and electrical engineers to develop site and full landscape plan documents.		



**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**  
(Complete one Section E for each key person.)

12. NAME Raymond Young, P.S.M.	13. ROLE IN THIS CONTRACT Land Surveyor/GIS	14. YEARS EXPERIENCE	
		a. TOTAL 43	b. WITH CURRENT FIRM 31
15. FIRM NAME AND LOCATION (City and State) Craven Thompson & Associates, Inc., 3563 NW 53 <sup>rd</sup> Street, Fort Lauderdale, Florida 33309			
16. EDUCATION (DEGREE AND SPECIALIZATION)		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Surveyor and Mapper Florida No. 5799 (1998)	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Florida Society of Professional Surveyors and Mappers			

**19. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
a.	Hollywood Seminole Reservation Stormwater Data Collection/GIS, Hollywood, Florida	2020 - 2021	Not Applicable
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Craven Thompson acquired accurate horizontal and vertical information on every stormwater/drainage feature on the Tribe's Hollywood Reservation. During the data collection phase, the GPS locations of structures, canals, retention areas and ditches were captured with X-Y-Z coordinate values in the data collector. In addition, details such as pipe sizes, material, inverts, weirs, age, and structure condition were obtained in the field.		
b.	Storm Sewer Outfall Replacement to SFWMD C-17 Canal Survey, Lake Park, Florida	2017	Not Applicable
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Survey Project Manager - He prepared an As-built survey of the 2 outfalls and 2 drainage structures in the City of Lake Park, and including 1 structure at the car wash property and the next 4 drainage structures upstream from and south of the Firestone property within the North Lake Boulevard Right-of-Way. The survey included 3 hydrographic cross-sections of a portion of SFWMD Canal C-17 at the 2 outfall locations to show the existing bank slope above and below the water out to the edge of water of the canal.		
c.	Potable Water System GIS & Surveying Fort Lauderdale, Florida	2022 - 2024	Not Applicable
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Surveyor/GIS. The Project consists of accurately remapping the City's Water System and correcting the City's GIS. The Project includes 750+ miles of water mains 4" and larger, 19,000+ valves, 6,200 fire hydrants, 250 air release valves, and 62,600 meters. Craven Thompson subcontracted with 10 different Survey firms to accomplish this project.		
d.	Fort Lauderdale Sanitary Sewer Mapping- GIS and Surveying Fort Lauderdale, Florida	2018 - 2019	Not Applicable
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Surveyor/GIS. Responsible for establishing Primary and Secondary Vertical Control with over 3,000 new benchmarks for Sanitary Sewer Mapping of the City, including As-built/Inventory, 5,917 Sanitary Manholes, 190 pump Stations, 15 meters, and 80 miles of force mains and their associated valves.		
e.	Western C-11 Basin Study & GIS Broward County, Florida	2015 - 2016	Not Applicable
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Surveyor. A topographic survey of the CBWCD's secondary canals was performed to provide up to three hundred eighty (380) canal cross-sections, up to seventy-six (76) finished floor elevations were identified near the secondary canal headwater and tail water locations, up to fifty (50) culverts and sixteen (16) bridges were surveyed to supplement existing CBWCD record drawings and data.		



**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**  
(Complete one Section E for each key person.)

12. NAME Richard G. Crawford, Jr., P.S.M.	13. ROLE IN THIS CONTRACT Land Surveyor/GIS	14. YEARS EXPERIENCE a. TOTAL 39 b. WITH CURRENT FIRM 3	
15. FIRM NAME AND LOCATION (City and State) Craven Thompson & Associates, Inc., 3563 NW 53 <sup>rd</sup> Street, Fort Lauderdale, Florida 33309			
16. EDUCATION (DEGREE AND SPECIALIZATION) Associates of Science in Land Surveying, Palm Beach Community College (1994) Associates of Arts in Architecture, Broward College (1986)		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Surveyor and Mapper Florida No. 5371 (1994)	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) - FAA Remote Pilot with a UAS Rating Certificate Number 3911523 (2016) - Computer Skills: AutoCAD, MicroStation, Star Net, Civil 3D, Carlson Survey			

**19. RELEVANT PROJECTS**

(1) TITLE AND LOCATION (City and State) Fort Lauderdale Modeling and Design Implementation of Stormwater Water Master Plan, Fort Lauderdale, Florida	(2) YEAR COMPLETED PROFESSIONAL SERVICES 2016 - 2017 CONSTRUCTION (If applicable) Not Applicable	
a. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Project Surveyor. Responsible for directing survey data collection, GIS analysis, and assisting others team members. Provided oversight for field data acquisition of storm water infrastructure attributes needed to populate an existing GIS Database.		
(1) TITLE AND LOCATION (City and State) Sanitary Sewer Mapping - Control Surveying Fort Lauderdale, Florida	(2) YEAR COMPLETED PROFESSIONAL SERVICES 2018 - 2019 CONSTRUCTION (If applicable) Not Applicable	
b. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Principal Survey Project Manager - Responsible for establishing Primary and Secondary Vertical Control with over 3,000 new benchmarks for Sanitary Sewer Mapping of the City, including As-built/Inventory 5,917 Sanitary Manholes, 190 pump Stations, 15 meters, and 80 miles of force mains and their associated valves.		
(1) TITLE AND LOCATION (City and State) FDOT, District 4 and District 6, Districtwide Miscellaneous Services Contract, South Florida	(2) YEAR COMPLETED PROFESSIONAL SERVICES 1993 - 2003 CONSTRUCTION (If applicable) Not Applicable	
c. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Project Surveyor. Supervised a wide variety of land surveying assignments throughout Southeast Florida region as a Project Surveyor in responsible charge. Utilized GNSS, and conventional land surveying techniques to perform digital terrain modeling, subsurface utility locations (SUE), boundary determinations, sewage infrastructure analysis, bridge details, control surveys, and right-of-way establishment.		
(1) TITLE AND LOCATION (City and State) Broward County UAZ 110 / 111 & 113 Water Sewer Improvements 113B, Lauderhill, Florida	(2) YEAR COMPLETED PROFESSIONAL SERVICES 2016 - 2018 CONSTRUCTION (If applicable) Not Applicable	
d. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Project Surveyor/Field Coordinator. Mapping, Field Coordination, Survey Data Processing. Responsible for establishing Primary and Secondary Vertical Control for Drone Mapping including flying, and processing drone data.		
(1) TITLE AND LOCATION (City and State) Citywide Benchmarks Pompano Beach, Florida	(2) YEAR COMPLETED PROFESSIONAL SERVICES 2013 - 2014 CONSTRUCTION (If applicable) Not Applicable	
e. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Principal Survey Project Manager – Responsible for establishing Primary and Secondary Vertical First Order Control to establish new city benchmarks to support a Storm Drainage Study.		



**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**  
(Complete one Section E for each key person.)

12. NAME David Reyes	13. ROLE IN THIS CONTRACT Senior GIS/Survey Technician	14. YEARS EXPERIENCE a. TOTAL 34 b. WITH CURRENT FIRM 10	
15. FIRM NAME AND LOCATION (City and State) Craven Thompson & Associates, Inc., 3563 NW 53 <sup>rd</sup> Street, Fort Lauderdale, Florida 33309			
16. EDUCATION (DEGREE AND SPECIALIZATION) Multiple Continuing Education programs in Surveying, GIS, and Mapping technologies.		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Certified Survey Technician Level III, FL, 2003 FDOT Maintenance of Traffic, FL	

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

- Member, CAICE Users Group    - Member, Florida GPS Users Group    - Member, Florida Local Users Group
- MicroStation Community       - Secretary, Florida Surveying & Mapping Society, Broward County Chapter 2004
- Member, Florida Surveying & Mapping Society, Indian River County Chapter 2008

**19. RELEVANT PROJECTS**

a. (1) TITLE AND LOCATION (City and State) Fort Lauderdale Sanitary Sewer System GIS & Surveying Fort Lauderdale, Florida	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2018 - 2019	CONSTRUCTION (If applicable) Not Applicable
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Craven Thompson established Primary and Secondary Vertical Control with over 3,000 new benchmarks for Sanitary Sewer Mapping of the City, including As-built/Inventory of Manholes, Pump Stations, meters, valves, air valves and 80 miles of force mains. <input checked="" type="checkbox"/> Check if project performed with current firm		
b. (1) TITLE AND LOCATION (City and State) Fort Lauderdale Stormwater Master Plan – GIS & Surveying Fort Lauderdale, Florida	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2016 - 2017	CONSTRUCTION (If applicable) Not Applicable
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Field Coordinator for Field Operations and Senior CAD Technician, GPS Network data collection and adjustment, coordination of field crews, Mobile Lidar computer extraction and Digital Terrain Model development. <input checked="" type="checkbox"/> Check if project performed with current firm		
c. (1) TITLE AND LOCATION (City and State) City-Wide Digital Topographic Mapping Greenacres, Florida	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2014	CONSTRUCTION (If applicable) Not Applicable
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE The project consisted of Aerial LiDAR mapping of the portion of the City of Greenacres lying north of Lake Worth Road for submittal to FEMA to be included in the latest Flood Mapping updates. The survey included a GPS network of control to meet horizontal & vertical accuracies to 0.10 feet on all hard surfaces in the project area. <input checked="" type="checkbox"/> Check if project performed with current firm		
d. (1) TITLE AND LOCATION (City and State) Stormwater GIS/Data Collection Project North Miami Beach, Florida	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2017 - 2018	CONSTRUCTION (If applicable) Not Applicable
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Data Collection and G.I.S. Specialist - The City is divided into six (6) zones and that structure/pipe data was collected within each zone and identified by zone and structure numbers. GIS data was collected and processed utilizing the City's existing Unit ID naming system in the geodatabase. The Craven Thompson data was collected by a Unique ID. We provided the city with a copy of the updated geodatabase with all the proposed data fields to be collected for review. <input checked="" type="checkbox"/> Check if project performed with current firm		
e. (1) TITLE AND LOCATION (City and State) Central Broward Water Control District - East Basin Project - Aerial LiDAR & DTM, Town of Davie and Southwest Ranches, Florida	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2013 - 2014	CONSTRUCTION (If applicable) Not Applicable
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Field Coordinator for Field Operations and Senior CAD Technician, GPS Network data collection and adjustment, coordination of field crews, and CAD Technician for final drawings and computations for Hydrographic & topographic surveys. Also included Digital Terrain Model development. <input checked="" type="checkbox"/> Check if project performed with current firm		



<b>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b> <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	<b>20. EXAMPLE PROJECT KEY NUMBER</b> <div>1</div>
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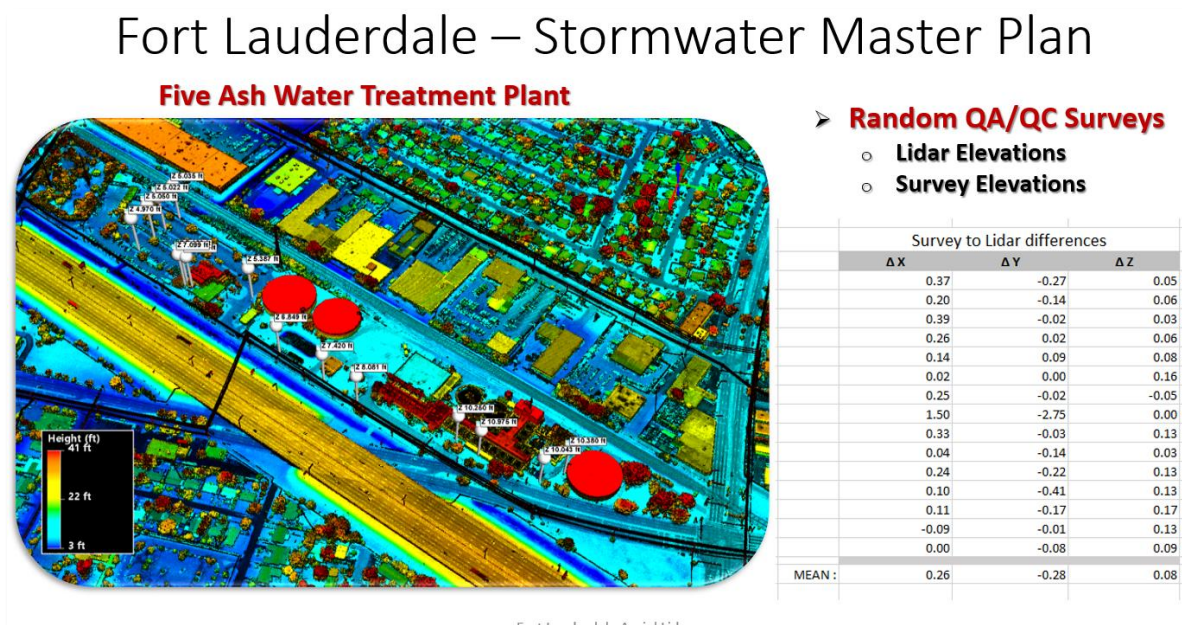
<b>21. TITLE AND LOCATION (CITY AND STATE)</b> Fort Lauderdale Storm Water Master Plan - GIS & Surveying Fort Lauderdale, Florida	<b>22. YEAR COMPLETED</b> PROFESSIONAL SERVICES 2016 - 2017 (Data Collection)	CONSTRUCTION (If applicable) Not Applicable
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23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER City of Fort Lauderdale (Owner) Hazen & Sawyer (Client)	b. POINT OF CONTACT NAME Mr. Rares Petrica, PE, Sr. Project Mgr. Ms. Patricia Carney, PE, BCEE, V.P.	c. POINT OF CONTACT TELEPHONE NUMBER (954) 828-6720 / <a href="mailto:RPetrica@fortlauderdale.gov">RPetrica@fortlauderdale.gov</a> (954) 987-0066 / <a href="mailto:pcarney@hazenandsawyer.com">pcarney@hazenandsawyer.com</a>

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Craven Thompson performed surveying, and an As-built/Inventory 5,400 Stormwater Features for GIS City-Wide Stormwater Model. The survey limits of this project are described as the entire City limits of Fort Lauderdale. The City was flown with high density aerial LiDAR to a vertical accuracy of 0.15 feet across the entire City. From the Lidar we created a 2-foot grid Digital Elevation Model of the ground for modeling drainage flow. This required a GPS Control Network, and 309 ground control for the flight, performed over 5,000 verification shots on hard surfaces at major roadways across the city. The second part of this survey was to collect and evaluate 5,400 storm structures with Rims, Inverts, Pipe Size, material, and research As-built records of the City in the Stormwater system and provide the data to the City in ArcGIS Geodatabase conforming to their GIS Model Schema.

Craven Thompson’s Fees: \$800,000



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT		
a.	(1) FIRM NAME Craven Thompson & Associates, Inc.	(2) FIRM LOCATION <i>(City and State)</i> 3563 NW 53 <sup>rd</sup> Street Fort Lauderdale, Florida 33309  (3) Role Sub-consultant: G.I.S./Surveying & Mapping
b.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>  (3) Role
c..	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>  (3) Role
d.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>  (3) Role

<b>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b> <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	<b>20. EXAMPLE PROJECT KEY NUMBER</b> <div style="font-size: 24pt; font-weight: bold;">2</div>
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<b>21. TITLE AND LOCATION (CITY AND STATE)</b> Master Pump Station 224 Improvements Lighthouse Point, Florida	<b>22. YEAR COMPLETED</b> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; text-align: center; border: none;">PROFESSIONAL SERVICES 2018 - 2019</td> <td style="width: 50%; text-align: center; border: none;">CONSTRUCTION (If applicable) 2021</td> </tr> </table>	PROFESSIONAL SERVICES 2018 - 2019	CONSTRUCTION (If applicable) 2021
PROFESSIONAL SERVICES 2018 - 2019	CONSTRUCTION (If applicable) 2021		

<b>23. PROJECT OWNER'S INFORMATION</b>
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<b>a. PROJECT OWNER</b> Broward County Water & Wastewater Services	<b>b. POINT OF CONTACT NAME</b> Mr. Mike Hagerty, P.E., LEED AP Engineering Unit Supervisor	<b>c. POINT OF CONTACT TELEPHONE NUMBER</b> Phone: (954) 831-3217 Email: <a href="mailto:mhagerty@broward.org">mhagerty@broward.org</a>
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**24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT** *(Include scope, size, and cost)*

Craven Thompson & Associates, Inc. provided professional consulting services to County for surveying, design, regulatory permitting assistance, cost estimating, bidding and award for the construction contract.

Rehabilitated existing Master Pump Station 224 including wet well rehabilitation, by-pass system, replacement of piping, pumps, panels, electrical services, valves, water proof vaults, hatches, SCADA instrumentation, provided by County, etc. within the parcel of MPS 224.

**Construction Cost: \$1,567,660.00**



**CONTACTS:**

**CRAVEN THOMPSON & ASSOCIATES, INC.**  
 3563 NW 53<sup>RD</sup> STREET  
 FORT LAUDERDALE, FL 33309  
 TEL: 954-831-3217  
 FAX: 954-831-3218  
 WWW.CT&A.COM

**NOVA CONSULTING**  
 1400 NW 11<sup>TH</sup> AVENUE, SUITE 200  
 FORT LAUDERDALE, FL 33311  
 TEL: 954-575-1100  
 FAX: 954-575-1101  
 WWW.NOVA-FL.COM

**RETAIL MASTER PUMP STATION 224 REHABILITATION**  
**BCWWS PROJECT 9150**  
**BID SET**  
**CITY OF LIGHTHOUSE POINT**  
**BROWARD COUNTY, FLORIDA**  
**DECEMBER 2017**

**LOCATION MAP**  
 4" = 100' (PLAN) - 1" = 100' (ELEVATION)  
 SECTION 16, TOWNSHIP 46 NORTH, RANGE 43 EAST

PREPARED FOR:  
**BROWARD COUNTY**  
**WATER AND WASTEWATER SERVICES**  
**(BCWWS)**

BID SET INDEX		
SHEET NO.	DESCRIPTION	REV.
1	COVER SHEET	
2	GENERAL NOTES	
3	PROPOSED CONSTRUCTION	
4	PROPOSED CONSTRUCTION	
5	PROPOSED CONSTRUCTION	
6	PROPOSED CONSTRUCTION	
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<b>25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT</b>
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a.	(1) FIRM NAME Craven Thompson & Associates, Inc.	(2) FIRM LOCATION <i>(City and State)</i> 3563 NW 53 <sup>rd</sup> Street Fort Lauderdale, Florida 33309	(3) Role Prime: Surveying, Design, Permitting, & CEI Services
b.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role
c.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role
d.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role



<b>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b> <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		<b>20. EXAMPLE PROJECT KEY NUMBER</b> <b>3</b>
<b>21. TITLE AND LOCATION (CITY AND STATE)</b> River Oaks Neighborhood Drainage Improvements Fort Lauderdale, Florida		<b>22. YEAR COMPLETED</b> PROFESSIONAL SERVICES 2016 - 2018 CONSTRUCTION (If applicable) 2022 - 2024

23. PROJECT OWNER'S INFORMATION		
<b>a. PROJECT OWNER</b> City of Fort Lauderdale	<b>b. POINT OF CONTACT NAME</b> Mr. Rares Petrica, MBA, P.E. Senior Project Manager	<b>c. POINT OF CONTACT TELEPHONE NUMBER</b> Phone: (954) 828-6720 Email: <a href="mailto:RPetrica@fortlauderdale.gov">RPetrica@fortlauderdale.gov</a>

**24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT** *(Include scope, size, and cost)*  
 The River Oaks neighborhood is located east of I-95 and South Fork New River and is bounded by State Road 84 to the south, Davie Road to the north, and SW 9<sup>th</sup> Avenue to the east. The neighborhood occupies a total area of approximately 518-acres.

A major objective was to collect the runoff from the low areas. Selective pipe upsizing, pipe interconnections, the installation of permeable pavement and exfiltration trench was used to reduce road flooding in the residential areas. The improvements reduced flood stages and time of inundation above road crowns for a 10-year, 24-hour design storm event and to protect against structural flooding in a 100 year-72-hour storm event. Craven Thompson developed construction documents (design, permitting, and CEI services) for the neighborhood. Our design included new piping & structures (conveyance system), exfiltration trench, sea level rise – backflow prevention and seawall height. In addition, we designed nutrient separating baffle boxes (NSBB), and STORMCEPTOR water quality structures.

Improvements included:

- 12,677 linear feet of swale re-grading,
- 5,346 linear feet of storm pipe removal,
- removal of 251 storm drainage structures,
- installation of 90 linear feet of 15" diameter storm sewer,
- 4,374 linear feet of 18" diameter storm sewer,
- 4,675 linear feet of 24" diameter storm sewer,
- 1,771 linear feet of 36" diameter storm sewer,
- 145 linear feet of 48" diameter storm sewer,
- 3,129 linear feet of 66" diameter storm sewer,
- 1,056 linear feet of 72" diameter storm sewer,
- 2,640 linear feet of 24" diameter exfiltration trench,
- installation of 236 new drainage structures,
- 2 - STORMCEPTER water quality structures,
- one TIDEFLEX backflow prevention valve,
- and 4,219 linear feet of sidewalk.

The project also included one small duplex stormwater pump station, and one large stormwater pump station.



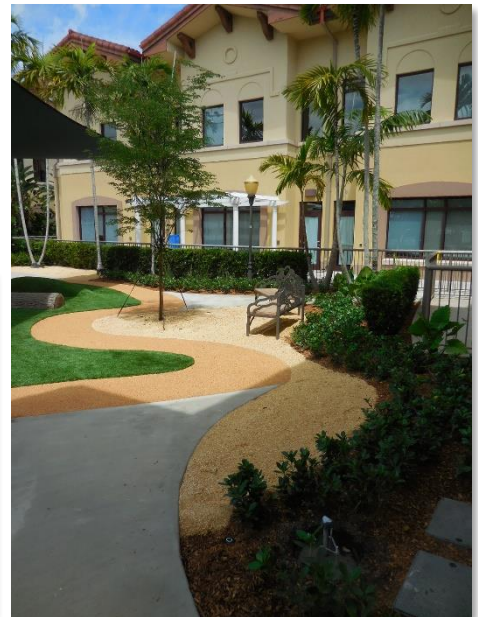
**Construction Cost: \$25,043,981.00**

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	<b>(1) FIRM NAME</b> Craven Thompson & Associates, Inc.	<b>(2) FIRM LOCATION (City and State)</b> 3563 NW 53 <sup>rd</sup> Street Fort Lauderdale, Florida 33309	<b>(3) Role</b> Sub-consultant: Stormwater Management, Storm System Design, Permitting, Survey, GIS, and Stormwater Modeling
b.	<b>(1) FIRM NAME</b>	<b>(2) FIRM LOCATION (City and State)</b>	<b>(3) Role</b>

<b>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b> <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		<b>20. EXAMPLE PROJECT KEY NUMBER</b> <div style="text-align: center; font-size: 24pt; font-weight: bold;">4</div>
<b>21. TITLE AND LOCATION (CITY AND STATE)</b> Nova Southeastern University Mailman Segal Center Playground, Davie, Florida		<b>22. YEAR COMPLETED</b> <div style="display: flex; justify-content: space-between;"> <div>PROFESSIONAL SERVICES 2017 - 2019</div> <div>CONSTRUCTION (If applicable) 2019</div> </div>
<b>23. PROJECT OWNER'S INFORMATION</b>		
<b>a. PROJECT OWNER</b> Nova Southeastern University	<b>b. POINT OF CONTACT NAME</b> Mr. Randall Seneff, Executive Director – Design & Construction	<b>c. POINT OF CONTACT TELEPHONE NUMBER</b> Phone: (954) 262-8805 Email: <a href="mailto:rseneff@nova.edu">rseneff@nova.edu</a>
<b>24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT</b> <i>(Include scope, size, and cost)</i>		

Craven Thompson & Associates prepared a concept for the Mailman Segal Center which is a preschool and early development center. The playground design is based on an open play theme with a focus on nature and organic materials. Without prescribed play/climbing equipment the series of activities revolve around a weaving path, interactive stream bed, and artistic natural play. The site design combines existing and proposed plants with an open concept that allows for the movement and change of activities to meet the needs of the School. Gardening, nature, and imaginative activity was the primary theme of this playground design.

**Construction Cost: \$357,252.00**



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) FIRM NAME Craven Thompson & Associates, Inc.	(2) FIRM LOCATION (City and State) 3563 NW 53 <sup>rd</sup> Street Fort Lauderdale, Florida 33309	(3) Role Prime:- Landscape Architecture, Permitting, Surveying, Construction Services
b.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) Role
c.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) Role



<b>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b> <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	<b>20. EXAMPLE PROJECT KEY NUMBER</b> <div>5</div>
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<b>21. TITLE AND LOCATION (CITY AND STATE)</b>	<b>22. YEAR COMPLETED</b>	
SW 36 <sup>th</sup> Street Improvements Davie, Florida	PROFESSIONAL SERVICES 2015	CONSTRUCTION (If applicable) 2019

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER Nova Southeastern University/ Town of Davie	b. POINT OF CONTACT NAME Mr. Randall Seneff Executive Director, Design & Construction	c. POINT OF CONTACT TELEPHONE NUMBER Phone: (954) 262-8805 Email: <a href="mailto:rseneff@nova.edu">rseneff@nova.edu</a>
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

The project consisted of roadway, roadway drainage, utility and landscape/hardscape improvements to SW 36<sup>th</sup> Street in Davie, Florida. The existing roadway section was approximately 22’ wide and was expanded to 25’ wide. SW 36<sup>th</sup> Street was designed as a two (2) lane divided boulevard from College Avenue to SW 76<sup>th</sup> Avenue within a 75-foot public right-of-way width. The roadway was raised in order to comply with SFWMD criteria. The improvements included roadway design and reconstruction, stormwater/drainage piping and structures, water distribution mains, coordination with franchise utilities, landscaping, pavers, pavement, sidewalks, fences and other miscellaneous items. Craven Thompson & Associates provided Civil Engineering, Landscape Architecture, Construction Engineering Inspection, and miscellaneous Survey services for the project.

**Construction Cost: \$4,876,483.00**



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Craven Thompson & Associates, Inc.	(2) FIRM LOCATION <i>(City and State)</i> 3563 NW 53 <sup>rd</sup> Street Fort Lauderdale, Florida 33309	(3) Role Prime: Surveying, Roadway Design, Drainage Design, Utility, Landscape / Hardscape, Design, Permitting, and CEI Services
b.	(1) FIRM NAME InfraMap Corp.	(2) FIRM LOCATION <i>(City and State)</i> 1100 N. Florida Mango Rd., Suite D West Palm Beach, Florida 33409	(3) Role Subconsultant: S.U.E. Services
c.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role
d.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role



<b>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b> <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	<b>20. EXAMPLE PROJECT KEY NUMBER</b> <div style="text-align: center; font-size: 24pt; font-weight: bold;">6</div>
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21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
Central Broward Water Control District West Basin Canal Survey, Broward County, Florida	PROFESSIONAL SERVICES  2015-2016	CONSTRUCTION (If applicable)  Not Applicable

<b>23. PROJECT OWNER'S INFORMATION</b>		
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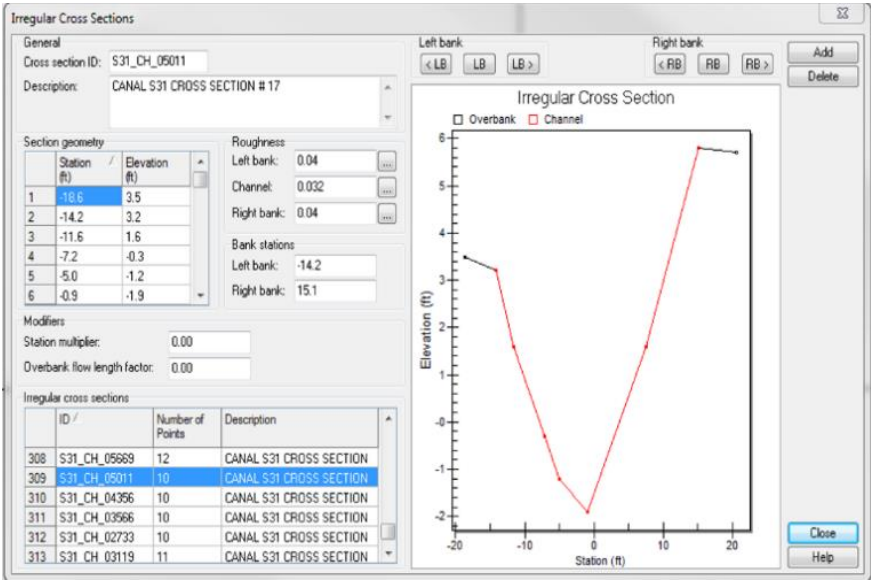
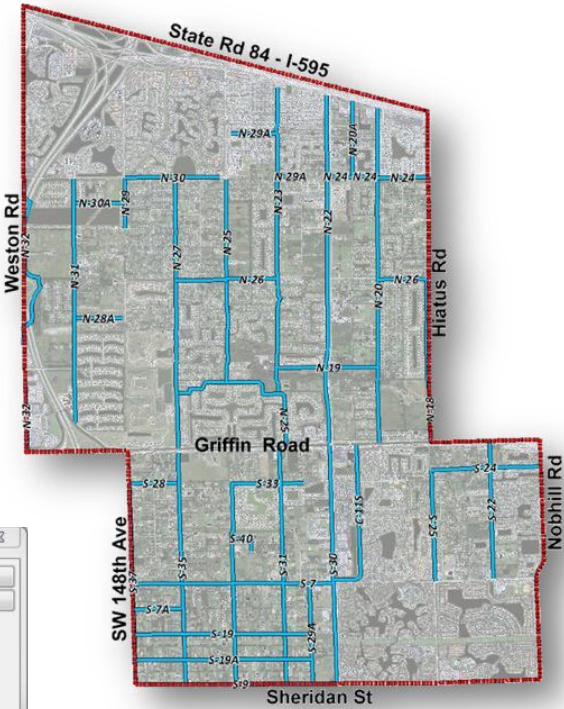
a. PROJECT OWNER Central Broward Water Control District	b. POINT OF CONTACT NAME Mr. Thomas Good District Manager	c. POINT OF CONTACT TELEPHONE NUMBER Phone: (954) 432-5110 Email: <a href="mailto:districtmanager@centralbrowardwcd.org">districtmanager@centralbrowardwcd.org</a>
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<b>24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT</b> <i>(Include scope, size, and cost)</i>
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Craven Thompson surveyed, cross-sectioned, and created a Storm Water Master Report using PCSWMM for 37 CBWCD maintained canals in the west basin covering 15,952 acres for the purpose of updating the Facilities Report

The Survey work included:

- Established a GPS geodetic Control Network for horizontal and vertical positioning for the entire west basin.
- Location and cross-section all 37 Canals (500 cross-sections)
- Located and verified all sizes and material of 400 Culverts
- Provided over 6,000 elevations
- Entered all survey data into Autodesk Storm & Sanitary Analysis Project
- Exported into EPA PC SWMM software for modeling



<b>25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT</b>			
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a.	(1) FIRM NAME Craven Thompson & Associates, Inc.	(2) FIRM LOCATION <i>(City and State)</i> 3563 NW 53 <sup>rd</sup> Street Fort Lauderdale, Florida 33309	(3) Role Prime: Hydrographic and Topographic Survey
b.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role



<b>EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b> <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		<b>20. EXAMPLE PROJECT KEY NUMBER</b> <div>7</div>
<b>1. TITLE AND LOCATION (CITY AND STATE)</b> Broward County Convention Center Expansion Fort Lauderdale, Florida		<b>22. YEAR COMPLETED</b> PROFESSIONAL SERVICES: 2015 - 2024 CONSTRUCTION (If applicable): 2019-2025

23. PROJECT OWNER'S INFORMATION		
<b>a. PROJECT OWNER</b> Stantec Architecture	<b>b. POINT OF CONTACT NAME</b> Mr. Carl Stegerwald Vice President	<b>c. POINT OF CONTACT TELEPHONE NUMBER</b> Phone: (305) 482-8700 Email: <a href="mailto:carl.stegerwald@stantec.com">carl.stegerwald@stantec.com</a>

**24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT** *(Include scope, size, and cost)*

This project involves a 525,000 square foot expansion to the Convention Center representing the first phase of a multi-phase masterplan. In addition to the Convention Center, the County intends to include construction of a hotel and related site improvements with the 40-acre parcel. The initial task involves refinement of the Concept Masterplan. Once selected by the County, the Concept Masterplan will be developed to the level of detail necessary for Site Plan Submittal. In addition to developing the Site Plan, schematic design of three distinct enabling projects, each pertinent to the expansion, are to be prepared concurrently with the Site Plan.

The project involves design services for an 800-key Hotel, with 73,000 square feet of meeting space, 23,900 square feet of restaurants, bar and retail, 11,000 square feet of spa and fitness, and open plaza area north of the existing Convention Center.

Craven Thompson and Associates is tasked with preparing schematic designs. Schematic design includes preparation of a single Site Plan Submittal package. In an effort to advance site approvals, the client divided the work into two separate Site Plan Submittals, the West Expansion and Remainder of Site. To advance construction, the client created four separate GMP's, two of which (GMP-1 and GMP-3) are for design services for West Expansion and the Remainder of the Site.



**Estimated Construction Cost: \$1 Billion.**

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	<b>(1) FIRM NAME</b> Craven Thompson & Associates, Inc.	<b>(2) FIRM LOCATION (City and State)</b> 3563 NW 53 <sup>rd</sup> Street Fort Lauderdale, Florida 33309	<b>(3) Role</b> Sub-consultant: Surveying, civil design, permitting, construction services
b.	<b>(1) FIRM NAME</b>	<b>(2) FIRM LOCATION (City and State)</b>	<b>(3) Role</b>
c.	<b>(1) FIRM NAME</b>	<b>(2) FIRM LOCATION (City and State)</b>	<b>(3) Role</b>

<b>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b> <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	<b>20. EXAMPLE PROJECT KEY NUMBER</b> <p style="text-align: center;"><b>8</b></p>
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<b>21. TITLE AND LOCATION (CITY AND STATE)</b> Utility Analysis Zone (UAZ) 122 Lauderdale Lakes, Florida	<b>22. YEAR COMPLETED</b> PROFESSIONAL SERVICES <p style="text-align: center;">2016</p>	CONSTRUCTION (If applicable) <p style="text-align: center;">2024</p>
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### 23. PROJECT OWNER'S INFORMATION

<b>a. PROJECT OWNER</b> Broward County Water & Wastewater Services	<b>b. POINT OF CONTACT NAME</b> Mr. Mike Hagerty, P.E., LEED AP Engineering Unit Supervisor	<b>c. POINT OF CONTACT TELEPHONE NUMBER</b> Phone: (954) 831-3217 Email: <a href="mailto:mhagerty@broward.org">mhagerty@broward.org</a>
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### 24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

UAZ 122 is a one hundred and sixty (160) acre area bounded by the SFWMD C-13 Canal to the north, NW 47<sup>th</sup> Avenue to the east, West Oakland Park Boulevard to the south and the Florida Turnpike to the west in the City of Lauderdale Lakes, Florida.

The project included the construction of a sanitary sewer collection system consisting of:

- 19,345 linear feet - 8" gravity main
- 1,350 linear feet - 10" gravity main
- 4,800 linear feet - 8" force main
- and 105 service laterals
- Two lift stations

The water distribution system improvements included:

- 11,190 linear feet - 6" main
- 10,875 linear feet - 8" main
- 5,205 linear feet - 10" main
- 3,690 linear feet - 12" main
- 630 linear feet - 16" main
- abandonment and grouting of 25,435 linear feet of existing watermain
- and the construction of 66 water services



In addition, 30,600 linear feet of roadway reconstruction along with right-of-way restoration was constructed. Craven Thompson modeled the systems using SewerCAD and WaterCAD as well as created the construction documents, permitting, assisting with bidding and CEI services for the infrastructure rehabilitation projects.

**Construction Cost: \$13,705,609.00**

### 25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Craven Thompson & Associates, Inc.	(2) FIRM LOCATION <i>(City and State)</i> 3563 NW 53 <sup>rd</sup> Street Fort Lauderdale, Florida 33309	(3) Role Prime: Surveying, Utility Modeling, Civil Engineering, Permitting, Bid Assistance, CEI/Construction Management & Inspection Services
b.	(1) FIRM NAME InfraMap Corp.	(2) FIRM LOCATION <i>(City and State)</i> 1100 N. Florida Mango Rd., Suite D West Palm Beach, Florida 33409	(3) Role Subconsultant: S.U.E. Services
c.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role
d.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role



<b>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b> <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	<b>20. EXAMPLE PROJECT KEY NUMBER</b> <div>9</div>
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21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
City of Coconut Creek Landscape Plan Review Services Coconut Creek, Florida	PROFESSIONAL SERVICES 2012 - Present	CONSTRUCTION (If applicable) Not Applicable

<b>23. PROJECT OWNER'S INFORMATION</b>
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a. PROJECT OWNER City of Coconut Creek	b. POINT OF CONTACT NAME Ms. Lizet Aguiar Principal Planner	c. POINT OF CONTACT TELEPHONE NUMBER Phone: (954) 973-6756 Email: <a href="mailto:laguiar@coconutcreek.net">laguiar@coconutcreek.net</a>
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<b>24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT</b> <i>(Include scope, size, and cost)</i>
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Craven Thompson & Associates provides landscape consulting services in regards to Landscape plan reviews for the City of Coconut Creek. The services provided include full DRC reviews, Administrative Approval reviews, Tree Removal/ Relocation reviews, and other additional landscape matters as they pertain to City landscape codes.

**Construction Cost: Not Applicable**



<b>25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT</b>
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a.	(1) FIRM NAME Craven Thompson & Associates, Inc.	(2) FIRM LOCATION <i>(City and State)</i> 3563 NW 53 <sup>rd</sup> Street Fort Lauderdale, Florida 33309	(3) Role Prime: Landscape Architectural Plan Review Services
b.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role
c.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role
d.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role
e.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role



F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT (Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)		20. EXAMPLE PROJECT KEY NUMBER <b>10</b>
21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
Central Broward Water Control District – District Engineer, Davie, Florida	PROFESSIONAL SERVICES 2007 - Present	CONSTRUCTION (If applicable) Varies

### 23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER Central Broward Water Control District	b. POINT OF CONTACT NAME Mr. Thomas Good District Manager	c. POINT OF CONTACT TELEPHONE NUMBER Phone: (954) 432-5110 Email: <a href="mailto:districtmanager@centralbrowardwcd.org">districtmanager@centralbrowardwcd.org</a>
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### 24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

Craven Thompson & Associates has served as the District Engineer for the Central Broward Water Control District (CBWCD) since March 2007. In this capacity, we review and recommend approval of all drainage projects within the District; review variance requests; serve on the Development Review Committee; attend Board meetings; and prepare construction plans for capital improvement projects. Services to the District include plan and Constructability Review; engineering studies and reports; plan review, surveying; design & permitting for capital improvement projects; construction services; inspection services; and meeting attendance.



### 25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Craven Thompson & Associates, Inc.	(2) FIRM LOCATION (City and State) 3563 NW 53 <sup>rd</sup> Street Fort Lauderdale, Florida 33309	(3) Role Prime: Surveying, Stormwater Modeling, Design, Capital Improvement Development, Plan Review, Permitting, and CEI Services
b.	(1) FIRM NAME .	(2) FIRM LOCATION (City and State)	(3) Role
c.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) Role
d.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) Role
e.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) Role

**F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT**  
(Present as many projects as requested by the agency, or 10 projects, if not specified.  
Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER  
**11**

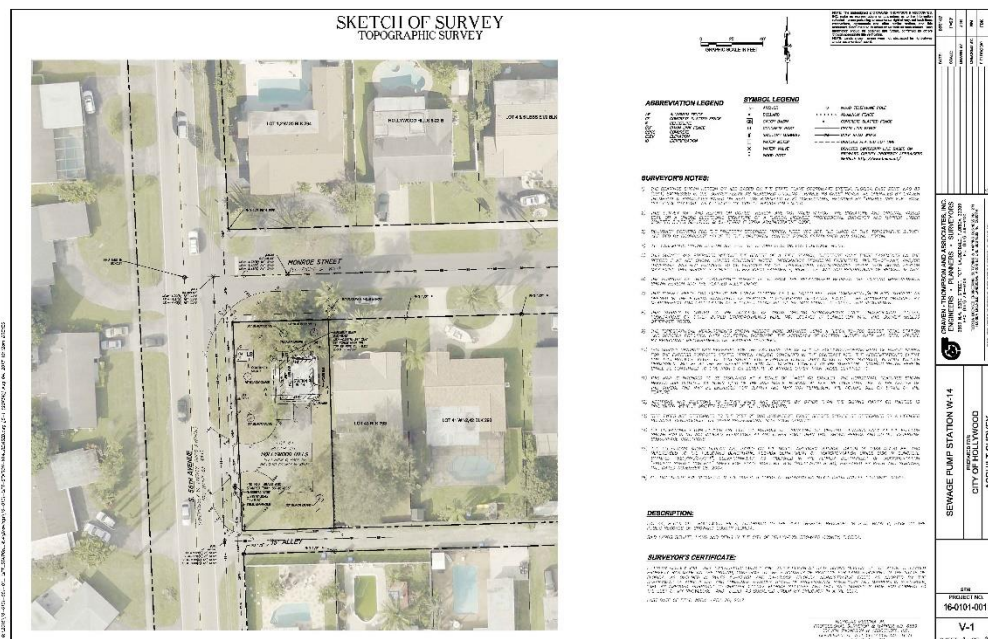
21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
Lift Station W14 As-Built Survey Hollywood, Florida	PROFESSIONAL SERVICES 2017	CONSTRUCTION (If applicable) Not Applicable

**23. PROJECT OWNER'S INFORMATION**

a. PROJECT OWNER City of Hollywood	b. POINT OF CONTACT NAME Mr. Jeff Jiang, P.E., Assistant Director Public Utilities / Engineering	c. POINT OF CONTACT TELEPHONE NUMBER Phone: (954) 921-3930 Email: <a href="mailto:fjiang@hollywoodfl.org">fjiang@hollywoodfl.org</a>
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

Craven Thompson obtained field survey information and prepared an as-built survey for the existing sewage Lift Station W14 using the 3D Laser Scanner. The survey information included detailed dimensions on pipes, pumps, panels, tanks, etc.



**25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT**

a.	(1) FIRM NAME Craven Thompson & Associates, Inc.	(2) FIRM LOCATION (City and State) 3563 NW 53 <sup>rd</sup> Street Fort Lauderdale, Florida 33309	(3) Role Prime: As-Built Survey
b.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) Role
c.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) Role
d.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) Role
e.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) Role



<b>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b> <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		<b>20. EXAMPLE PROJECT KEY NUMBER</b> <div style="text-align: right; font-size: 1.2em;"><b>12</b></div>
<b>21. TITLE AND LOCATION (CITY AND STATE)</b> Kimberly Boulevard East Complete Streets Project North Lauderdale, Florida		<b>22. YEAR COMPLETED</b> PROFESSIONAL SERVICES <div style="text-align: center;">2018 - 2021</div> CONSTRUCTION (If applicable) <div style="text-align: center;">2023</div>

<b>23. PROJECT OWNER'S INFORMATION</b>
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<b>a. PROJECT OWNER</b> City of North Lauderdale	<b>b. POINT OF CONTACT NAME</b> Mr. Samuel May Public Works/Utilities Director	<b>c. POINT OF CONTACT TELEPHONE NUMBER</b> Phone: (954) 597-4756 Email: <a href="mailto:smay@nlauderdale.org">smay@nlauderdale.org</a>
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**4. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT** *(Include scope, size, and cost)*

The project is known as the Kimberly Boulevard Complete Streets Improvements from State Road 7 to Rock Island Road. The total length of roadway is 5,900 linear feet and consisted of four total lanes, two eastbound and two westbound with a landscaped median. The improvements included roadway reconstruction, milling & overlay, safety enhancements including modifying existing sidewalk access ramps for ADA compliance, the construction of a roundabout at SW 64th Terrace, the addition of traffic calming devices, curbing of identified existing medians, drainage modifications, and the reduction from two to one lane both eastbound and westbound plus the addition of bicycle lanes in each direction from SW 70th Avenue to SW 10th. The existing pavement displayed alligator cracking, block cracking, transverse cracking and rutting at many locations within the project limits. Craven Thompson along with geotechnical sub-consultant, Absolute Civil Engineering Solutions performed and evaluated cores of the existing pavement. As a result of this, various segments were completely reconstructed while others were simply milled and overlaid. **Construction Cost: \$2,213,195.00**



<b>25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT</b>
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a.	(1) FIRM NAME Craven Thompson & Associates, Inc.	(2) FIRM LOCATION <i>(City and State)</i> 3563 NW 53rd Street Fort Lauderdale, Florida 33309	(3) Role Prime: Surveying, Roadway Design, Drainage, Permitting, Traffic Calming, Complete Streets, Landscape Architecture
b.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role
c.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role

<b>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b> <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		<b>20. EXAMPLE PROJECT KEY NUMBER</b> <div>13</div>	
<b>21. TITLE AND LOCATION (CITY AND STATE)</b> G.T. Lohmeyer WWTP Stormwater Improvements Survey Fort Lauderdale, Florida		<b>22. YEAR COMPLETED</b> <div> PROFESSIONAL SERVICES  2014 </div> <div> CONSTRUCTION (If applicable)  Not Applicable </div>	
<b>23. PROJECT OWNER'S INFORMATION</b>			
a. PROJECT OWNER City of Fort Lauderdale		b. POINT OF CONTACT NAME Mr. Jorge Holguin Senior Project Manager	
		c. POINT OF CONTACT TELEPHONE NUMBER Phone: (954) 828-5675 Email: <a href="mailto:JHolguin@fortlauderdale.gov">JHolguin@fortlauderdale.gov</a>	
<b>24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT</b> <i>(Include scope, size, and cost)</i> Craven Thompson prepared a Topographic Survey for the WWTP. This survey lies from the East line of the Pretreatment Building to the west Right-of-Way Line of Eisenhower Blvd., 1,485± L.F. The survey will include recovery of pertinent boundary corners, location of aboveground visible improvements, including pavement, slabs, fences, trees, utility features and the perimeter wall along the north property line of the subject property including S.E. 18 <sup>th</sup> Street. In addition, the CONSULTANT will obtain rim elevations of utility structures with invert elevations, pipe size and type of drainage & sanitary structures. The survey will meet current surveying requirements of the Board of Professional Surveyors and Mappers, of the State of Florida, and will comply with the City of Fort Lauderdale CAD standards. The survey will be prepared in AutoCAD Civil 3D, Version 2014 drawing file format. Elevations will be based on the North American Vertical Datum of 1988 (NAVD 88), and referenced to National Geodetic Survey benchmarks.			
<b>25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT</b>			
a.	(1) FIRM NAME Craven Thompson & Associates, Inc.	(2) FIRM LOCATION <i>(City and State)</i> 3563 NW 53 <sup>rd</sup> Street Fort Lauderdale, Florida 33309	(3) Role Prime: Topographic Survey
b.	(1) FIRM NAME InfraMap Corp.	(2) FIRM LOCATION <i>(City and State)</i> 1100 N. Florida Mango Rd., Suite D West Palm Beach, Florida 33409	(3) Role Subconsultant: S.U.E. Services
c.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role
e.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role

**F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT**  
(Present as many projects as requested by the agency, or 10 projects, if not specified.  
Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER

14

21. TITLE AND LOCATION (CITY AND STATE)

Plantation Isles Neighborhood Drainage Improvements,  
Plantation, Florida

22. YEAR COMPLETED

PROFESSIONAL SERVICES

2017-2019

CONSTRUCTION (If applicable)

2020 - 2021

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER

City of Plantation

b. POINT OF CONTACT NAME

Mr. Joseph DeGirolmo  
Engineer 1

c. POINT OF CONTACT TELEPHONE NUMBER

Phone: (954) 797-2277

Email: [jdegirolmo@plantation.org](mailto:jdegirolmo@plantation.org)

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

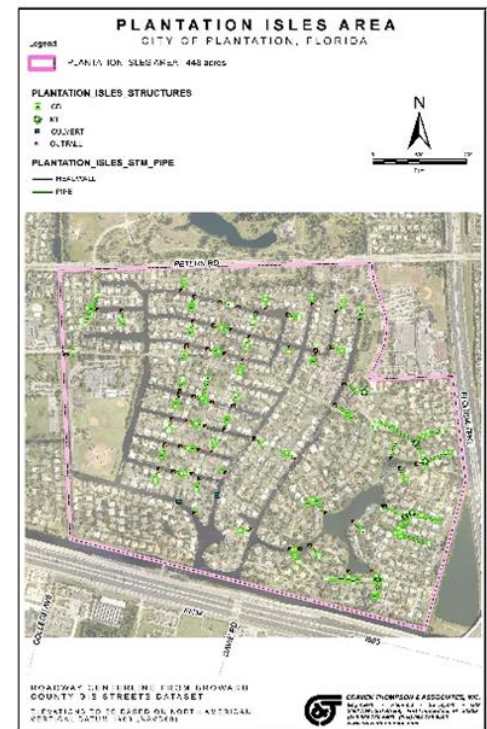
Craven Thompson provided surveying, analysis, assessment for repair/replacement of existing storm water management systems, preparation of construction documents and permitting, bidding assistance, and construction services for the Plantation Isles Neighborhood. The neighborhood is 448 acres in size and is bounded the Peters Road to the north, the Florida Turnpike to the east, Royal Palm Estates to the west, and I-595 to the south.

Improvements include:

- 3,150 LF of swale re-grading,
- 5,359 LF of storm sewer removal,
- removal of 161 storm drainage structures,
- the installation of 2,217 LF of 15" diameter storm sewer,
- 471 LF of 18" diameter storm sewer,
- 429 LF of 24" diameter storm sewer,
- 576 LF of 30" diameter storm sewer,
- 828 LF of 36" diameter storm sewer,
- 321 LF of 42" diameter storm sewer,
- 101 LF of 48" diameter storm sewer,
- 116 LF of 72" diameter storm sewer.
- removal and replacement of 5 outfalls,
- installation of 160 - 30" diameter ADS drainage structures.

The project also included C.I.P.P. lining of:

- 1,213 LF of 12" diameter storm sewer,
- 3,488 LF of 15" diameter storm sewer,
- 1,839 LF of 18" diameter storm sewer,
- 487 LF of 21" diameter storm sewer,
- 1,540 LF of 24" diameter storm sewer,
- 244 LF of 30" diameter storm sewer,
- 482 LF of 42" diameter storm sewer,
- pipe bursting consisting of:
  - 93 LF of 12" diameter pipe with 15" pipe,
  - 56 LF of 15" diameter pipe with 18" pipe,
  - 166 LF of 21" diameter pipe with 24" pipe.
- Restoration of the disturbed right-of-way areas was also included.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Craven Thompson & Associates, Inc.	(2) FIRM LOCATION (City and State) 3563 NW 53 <sup>rd</sup> Street Fort Lauderdale, Florida 33309	(3) Role Prime: Surveying, Stormwater Asset Assessment, Stormwater Modeling, Design, Construction Plans, Bid Assistance, Permitting, and CEI Services
b.	(1) FIRM NAME InfraMap Corp.	(2) FIRM LOCATION (City and State) 1100 N. Florida Mango Rd., Suite D West Palm Beach, Florida 33409	(3) Role Subconsultant: S.U.E. Services
c.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) Role



**F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT**

(Present as many projects as requested by the agency, or 10 projects, if not specified.  
Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER

**15**

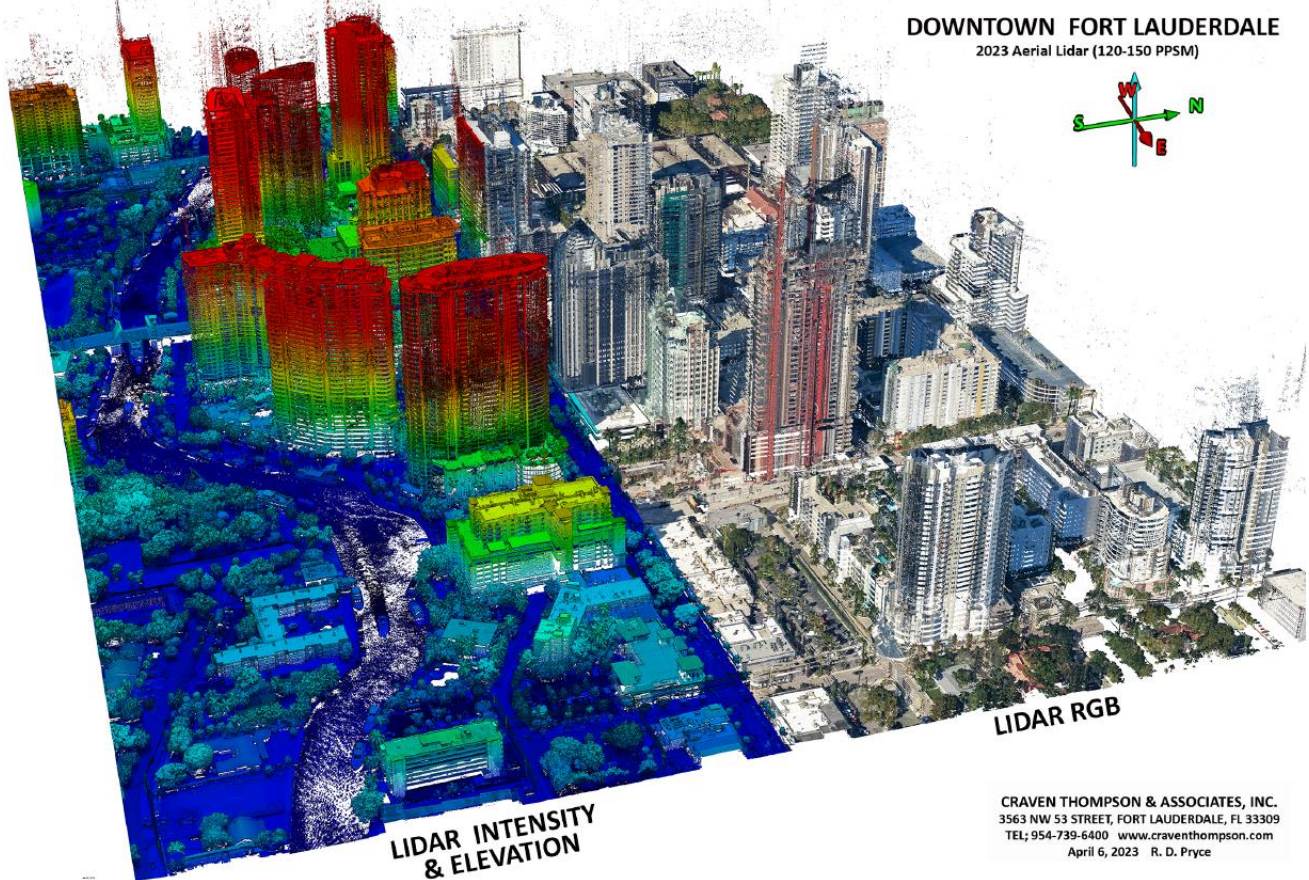
21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED
Potable Water System GIS & Surveying Fort Lauderdale, Florida	PROFESSIONAL SERVICES 2022 - 2024 CONSTRUCTION (If applicable) Not Applicable

**23. PROJECT OWNER'S INFORMATION**

a. PROJECT OWNER City of Fort Lauderdale	b. POINT OF CONTACT NAME Mr. Sylejman Ujkani Program Manager	c. POINT OF CONTACT TELEPHONE NUMBER Phone: (954) 828-5963 Email: <a href="mailto:sujkani@fortlauderdale.gov">sujkani@fortlauderdale.gov</a>
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

Craven Thompson & Associates, Inc. is the prime consultant for the Water Consent Order Mapping project, City Project No. 12729. The Project consists of accurately remapping the City's Water System and correcting the City's GIS. The Project includes 750+ miles of water mains 4" and larger, 19,000+ valves, 6,200 fire hydrants, 250 air release valves, and 62,600 meters. Craven Thompson subcontracted with 10 different Survey firms to accomplish this project. Eight of the ten firms are doing Survey & SUE work and mapping all of the mains, 8" in diameter and larger, together with all of the valves, hydrants, and air release valves. The other two survey firms and one of the SUE firms will be locating all 62,000 water meters. Craven Thompson also subcontracted for all of the roads (700 miles) within the water service area to be mapped with mobile lidar to an accuracy of +/- 0.5 feet. Craven Thompson also subcontracted for the City's water service area to be flown with aerial photogrammetry and aerial Lidar to an accuracy of +/- 0.5 feet.



**25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT**

a.	(1) FIRM NAME Craven Thompson & Associates, Inc.	(2) FIRM LOCATION (City and State) 3563 NW 53 <sup>rd</sup> Street Fort Lauderdale, Florida 33309	(3) Role Prime Consultant – Program Management, Surveying and Data Collection
b.	(1) FIRM NAME InfraMap Corp.	(2) FIRM LOCATION (City and State) 1100 N. Florida Mango Rd., Suite D West Palm Beach, Florida 33409	(3) Role Subconsultant: S.U.E. Services



<b>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b> <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	<b>20. EXAMPLE PROJECT KEY NUMBER</b>  <b>16</b>
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<b>21. TITLE AND LOCATION (CITY AND STATE)</b>	<b>22. YEAR COMPLETED</b>	
City of Plantation Landscape Plan Review Services Plantation, Florida	PROFESSIONAL SERVICES  2022 - Present	CONSTRUCTION (If applicable)  Not Applicable

23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of Plantation	Mr. Danny Holmes, AICP Planning, Zoning, & Economic Development Director	Phone: (954) 513-3509 Email: <a href="mailto:dholmes@plantation.org">dholmes@plantation.org</a>

**24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT** *(Include scope, size, and cost)*

Craven Thompson & Associates provides landscape consulting services in regards to Landscape plan reviews for the City of Plantation. The services provided include full DRC reviews, Administrative Approval reviews, Tree Removal/ Relocation reviews, and other additional landscape matters as they pertain to City landscape codes.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT		
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a.	(1) FIRM NAME Craven Thompson & Associates, Inc.	(2) FIRM LOCATION <i>(City and State)</i> 3563 NW 53 <sup>rd</sup> Street Fort Lauderdale, Florida 33309	(3) Role Prime: Landscape Architectural Plan Review Services
b.	(1) FIRM NAME InfraMap Corp.	(2) FIRM LOCATION <i>(City and State)</i> 1100 N. Florida Mango Rd., Suite D West Palm Beach, Florida 33409	(3) Role Subconsultant: S.U.E. Services
c.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role
d.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role



<b>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b> <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		<b>20. EXAMPLE PROJECT KEY NUMBER</b> <div style="text-align: right; font-size: 1.2em;"><b>17</b></div>
<b>21. TITLE AND LOCATION (CITY AND STATE)</b> PS 310 Mag Meter Broward County, Florida	<b>22. YEAR COMPLETED</b> PROFESSIONAL SERVICES <div style="text-align: center;">2017</div>	CONSTRUCTION (If applicable) <div style="text-align: center;">2019</div>

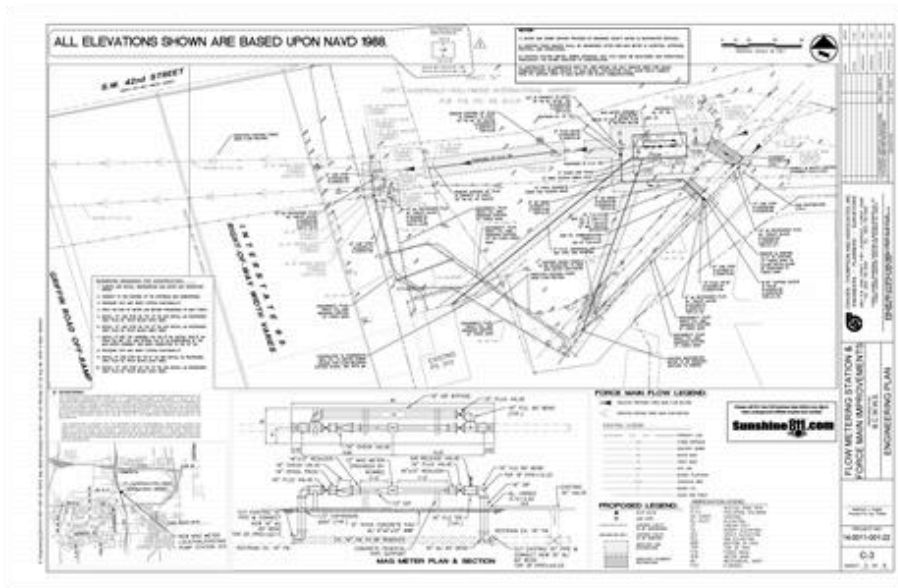
23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER Broward County Water & Wastewater Services	b. POINT OF CONTACT NAME Mr. Mike Hagerty, P.E., LEED AP Engineering Unit Supervisor	c. POINT OF CONTACT TELEPHONE NUMBER Phone: (954) 831-3217 Email: <a href="mailto:mhagerty@broward.org">mhagerty@broward.org</a>

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Craven Thompson & Associates, Inc. provided professional engineering services to County for design and construction services for the installation of a new Flow Metering Station and appurtenances for the 16", 12" and 8" Force Main as described below:

The existing 16" and 12" Force Mains serving the Fort Lauderdale-Hollywood International Airport required combined metering and an existing 8" Force Main had to be extended and connected to the 16" Force Main downstream of the proposed Flow Metering Station. Craven Thompson designed, permitted and provided construction services for a 16" Mag Meter. We also designed line stops and by-pass piping as necessary to pass existing flow during construction.

**Construction Cost: \$257,064.00**



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) FIRM NAME Craven Thompson & Associates, Inc.	(2) FIRM LOCATION <i>(City and State)</i> 3563 NW 53 <sup>rd</sup> Street Fort Lauderdale, Florida 33309	(3) Role Prime: Surveying, Stormwater Computer Modeling, Drainage Design, Permitting, Bid Assistance & CEI Services
b.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role
c.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role
d.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role
e.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role



<b>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b> <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	<b>20. EXAMPLE PROJECT KEY NUMBER</b> <div>18</div>
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21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
El Dorado Neighborhood Drainage Improvements Plantation, Florida	PROFESSIONAL SERVICES  2017-2019	CONSTRUCTION (If applicable)  2020

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER  City of Plantation	b. POINT OF CONTACT NAME  Mr. Joe DeGirolmo Engineer 1	c. POINT OF CONTACT TELEPHONE NUMBER Phone: (954) 797-2277 Email: <a href="mailto:jdegirolmo@plantation.org">jdegirolmo@plantation.org</a>
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

Craven Thompson provided surveying, analysis, assessment for repair/replacement of existing storm water management systems, preparation of construction documents and permitting, bidding assistance, and construction services for the El Dorado Neighborhood. The neighborhood is 123 acres in size and is bounded by the Plantation Golf Estates Neighborhood to the northeast, West Broward Boulevard to the north, South University Drive to the west, and the Royal Palm Estates neighborhood to the south.

Improvements include:

- 3,072 linear feet of swale re-grading,
- 1,963 linear feet of storm pipe removal,
- installation of 930 linear feet of 15" diameter storm sewer,
- 160 linear feet of 18" diameter storm sewer,
- 768 linear feet of 24" diameter storm sewer,
- 105 linear feet of 30" diameter storm sewer,
- installation of 48 - 30" diameter ADS drainage structures.

Restoration of the disturbed right-of-way areas was also included.

**EL DORADO ESTATES AREA**  
CITY OF PLANTATION, FLORIDA

Legend

- EL DORADO ESTATES AREA - 123 acres
- EL DORADO STRUCTURES
  - SW
  - SEWER
  - DITCH
- EL DORADO STM PIPE
  - 15" DIA
  - 18" DIA
  - 24" DIA
  - 30" DIA

ROADWAY CENTERLINE FROM BROWARD COUNTY GIS STREET DATASET

ELEVATIONS TO BE BASED ON NORTH AMERICAN DATUM 1983 (SEA LEVEL ELEVATION)

CRAVEN THOMPSON & ASSOCIATES, INC.  
Surveying • Design • Planning • GIS  
300 NW 53rd Street, Fort Lauderdale, FL 33309  
(954) 797-2277

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Craven Thompson & Associates, Inc.	(2) FIRM LOCATION (City and State) 3563 NW 53 <sup>rd</sup> Street Fort Lauderdale, Florida 33309	(3) Role Prime: Surveying, Stormwater Asset Assessment, Stormwater Modeling, Design, Construction Plans, Bid Assistance, Permitting, and CEI Services
b.	(1) FIRM NAME InfraMap Corp.	(2) FIRM LOCATION (City and State) 1100 N. Florida Mango Rd., Suite D West Palm Beach, Florida 33409	(3) Role Subconsultant: S.U.E. Services
c.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) Role
d.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) Role
e.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) Role

<b>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b> <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	<b>20. EXAMPLE PROJECT KEY NUMBER</b> <div>19</div>
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<b>21. TITLE AND LOCATION (CITY AND STATE)</b> NE 14 <sup>th</sup> Avenue Streetscape Improvements Hallandale Beach, Florida	<b>22. YEAR COMPLETED</b> <div>PROFESSIONAL SERVICES</div> <div>2015</div> <div>CONSTRUCTION (If applicable)</div> <div>2018</div>
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<b>23. PROJECT OWNER'S INFORMATION</b>
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<b>a. PROJECT OWNER</b> City of Hallandale Beach	<b>b. POINT OF CONTACT NAME</b> Mr. Manga Ebbe Construction Program Manager	<b>c. POINT OF CONTACT TELEPHONE NUMBER</b> Phone: (954) 457-3043 Email: <a href="mailto:mebbe@cohb.gov">mebbe@cohb.gov</a>
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<b>24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT</b> <i>(Include scope, size, and cost)</i>
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The project area is along NE 14<sup>th</sup> Avenue between Hallandale Beach Boulevard and Atlantic Shores Boulevard. The project corridor is approximately 3,400 linear feet. The project included: Mill and overlay entire roadway (including pavement markings); on east side of NE 14<sup>th</sup> Avenue, mill and overlay off-street parking (including pavement markings) and provide new Type 'D' curbed landscape bulb-outs to delineate parallel parking and include canopy trees, shrubs, groundcover and spray and drip irrigation; bike lanes on both sides of roadway; curbing or other treatments at existing driveway entrances; canopy trees with ground cover intermingled and drip irrigation on the west side of NE 14<sup>th</sup> Avenue; landscape screening along north, south, and west sides of the two (2) storm water pump stations. Landscaping along the west side of the enclosure is limited due to the close proximity of the screen fence to the existing sidewalk; PaveDrain concrete block access drives on each side of the two (2) storm water pump stations; mid-block crosswalks; and resting areas (benches, trash cans, etc.). Craven Thompson provided Surveying, Landscape Architectural, Civil Engineering, and Construction Engineering Inspection Services.

**Construction Cost: \$1,157,206.00**



<b>25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT</b>
--

<b>a.</b>	<b>(1) FIRM NAME</b> Craven Thompson & Associates, Inc.	<b>(2) FIRM LOCATION (City and State)</b> 3563 NW 53 <sup>rd</sup> Street Fort Lauderdale, Florida 33309	<b>(3) Role</b> Prime – Surveying, Roadway Design, Permitting, Landscape Architecture, CEI/Construction Management & Inspection Services
<b>b.</b>	<b>(1) FIRM NAME</b> InfraMap Corp.	<b>(2) FIRM LOCATION (City and State)</b> 1100 N. Florida Mango Rd., Suite D West Palm Beach, Florida 33409	<b>(3) Role</b> Subconsultant: S.U.E. Services
<b>c.</b>	<b>(1) FIRM NAME</b>	<b>(2) FIRM LOCATION (City and State)</b>	<b>(3) Role</b>
<b>d.</b>	<b>(1) FIRM NAME</b>	<b>(2) FIRM LOCATION (City and State)</b>	<b>(3) Role</b>

<b>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b> <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		<b>20. EXAMPLE PROJECT KEY NUMBER</b> <div>20</div>
<b>21. TITLE AND LOCATION (CITY AND STATE)</b> Hollywood HMGP Grant Emergency Generators for Lift Stations E-01, W-14, & W-15, Hollywood, Florida		<b>22. YEAR COMPLETED</b> <div> <div>PROFESSIONAL SERVICES</div> <div>2020-2023</div> <div>CONSTRUCTION (If applicable)</div> <div>2024</div> </div>

23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER City of Hollywood	b. POINT OF CONTACT NAME Mr. Jeff Jiang, P.E., Assistant Director – Public Utilities/Engineering	c. POINT OF CONTACT TELEPHONE NUMBER Phone: (954) 921-3930 Email: <a href="mailto:fjiang@hollywoodfl.org">fjiang@hollywoodfl.org</a>

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*


The City of Hollywood was awarded grants from the State of Florida Department of Emergency Management (FDEM) as part of the Federal Emergency Management Agency (FEMA) Hazard Mitigation Grant Program (HMGP) program to install backup electrical power generators for lift stations E-01, W-14, and W-15. Craven Thompson as prime, along with sub-consultants, Hillers Electrical, TRC Worldwide, and Tierra South Florida were selected by the City to provide surveying, planning, administrative services, design, permitting, preparation of preconstruction and project coordination activities, preparation of generator startup reports, coordination with the City and FEMA, permitting, engineering support services and construction engineering inspection for the projects. Generator upgrades are being provided in conformance with NFPA 820. Other design considerations included: coordination with FPL, changes to main disconnect and automatic transfer system (ATS), upgrades to grounding and lightning arrestor systems, ancillary electrical components including lighting, permanent standby power generator(s) and fuel systems with minimum fuel capacity for 72 hours, and sound attenuated enclosure (73dBA @ 21') and critical muffler design.

**Construction Cost: \$1,440,000.00**



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) FIRM NAME Craven Thompson & Associates, Inc.	(2) FIRM LOCATION <i>(City and State)</i> 3563 NW 53 <sup>rd</sup> Street Fort Lauderdale, Florida 33309	(3) Role Prime: Surveying, Lift Station Design, Emergency Generator Design, Permitting, and CEI Services
b.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role
c.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role
d..	(1) FIRM NAME .	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role
e.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role



<b>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b> <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		<b>20. EXAMPLE PROJECT KEY NUMBER</b> <div>21</div>	
<b>21. TITLE AND LOCATION (CITY AND STATE)</b> Eastside Master Infrastructure Project – Phases 2 & 3 Davie, Florida		<b>22. YEAR COMPLETED</b> PROFESSIONAL SERVICES 2015	CONSTRUCTION (If applicable) 2019
<b>23. PROJECT OWNER'S INFORMATION</b>			
a. PROJECT OWNER Town of Davie		b. POINT OF CONTACT NAME Mr. Jonathan Vogt, P.E. Town Engineer	
		c. POINT OF CONTACT TELEPHONE NUMBER Phone: (954) 797-1137 Email: <a href="mailto:jonathan_vogt@davie-fl.gov">jonathan_vogt@davie-fl.gov</a>	
<b>24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT</b> <i>(Include scope, size, and cost)</i> The project is composed of approximately 340 acres within the Town's CRA. The water distribution included: <ul style="list-style-type: none"> <li>14,800 linear feet of 6" diameter main</li> <li>5,075 linear feet of 8" diameter main</li> <li>5,140 linear feet of 12" diameter main</li> <li>Abandon &amp; grout 11,450 linear feet of existing watermain in place</li> <li>50 fire hydrants</li> <li>154 gate valves</li> <li>40,400 linear feet of water service piping on private property</li> </ul> The sanitary improvements included: <ul style="list-style-type: none"> <li>11,455 linear feet of 8" diameter pipe,</li> <li>40 sanitary manholes</li> <li>2,945 linear feet of 16" diameter forcemain</li> </ul> The drainage/roadway work consisted of: <ul style="list-style-type: none"> <li>22,763 linear feet of roadway reconstruction</li> <li>41,000 square yards of swale regrading</li> <li>18,940 linear feet of storm sewer</li> <li>12,450 square yards of sidewalk</li> <li>7,400 square yards of driveway restoration</li> <li>146 storm structures</li> <li>3 outfalls</li> <li>1 control structure</li> <li>The work also includes landscaping.</li> </ul>			
			
Craven Thompson & Associates performed surveying, subsurface locates, civil design and permitting, landscape architecture, prepared construction documents, bid assistance, and construction engineering services.			
<b>Construction Cost: \$13,275,149.00</b>			
<b>25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT</b>			
a.	(1) FIRM NAME Craven Thompson & Associates, Inc.	(2) FIRM LOCATION <i>(City and State)</i> 3563 NW 53 <sup>rd</sup> Street Fort Lauderdale, Florida 33309	(3) Role Prime:- Surveying, Stormwater Modeling, Drainage Design, Landscape Design, Water and Sewer Design, Permitting, and CEI Services
b.	(1) FIRM NAME InfraMap Corp.	(2) FIRM LOCATION <i>(City and State)</i> 1100 N. Florida Mango Rd., Suite D West Palm Beach, Florida 33409	(3) Role Subconsultant: S.U.E. Services
c.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role
d.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role

<b>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b> <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		<b>20. EXAMPLE PROJECT KEY NUMBER</b> <div style="text-align: center; font-size: 1.2em; font-weight: bold;">22</div>
<b>21. TITLE AND LOCATION (CITY AND STATE)</b> N-29A Canal Connector Project Davie, Florida		<b>22. YEAR COMPLETED</b> <div style="display: flex; justify-content: space-between;"> <div>PROFESSIONAL SERVICES 2017 - 2018</div> <div>CONSTRUCTION (If applicable) 2018 - 2019</div> </div>
23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER Central Broward Water Control District	b. POINT OF CONTACT NAME Mr. Thomas Good District Manager	c. POINT OF CONTACT TELEPHONE NUMBER Phone: (954) 432-5110 Email: <a href="mailto:districtmanager@centralbrowardwcd.org">districtmanager@centralbrowardwcd.org</a>

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*  
  
Craven Thompson & Associates provided professional surveying, stormwater engineering, stormwater modeling, plan & specification production, permitting, bid assistance, and construction related services for the N-29A Canal Connector Project. This project is located along the N-29A Canal west of Flamingo Road, Sections 11 and 14, Township 50 South, Range 40 East, in the Town of Davie, Florida. The project included the construction of 1,407 linear feet of 72" diameter culvert equalizer, connecting the Central Broward Water Control District's (CBWCD) N-29A Canal to the N-22 Canal. The project also included demolition, culvert & headwall construction, and the restoration of stabilized pathway, sidewalk and asphalt roadway, along with other minor improvements associated with the proposed project.

CBWCD N-29A CANAL CONNECTOR PROJECT  
EXHIBIT A – PROJECT STUDY AREA

**Construction Cost: \$1,145,00.00**

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) FIRM NAME Craven Thompson & Associates, Inc.	(2) FIRM LOCATION <i>(City and State)</i> 3563 NW 53 <sup>rd</sup> Street Fort Lauderdale, Florida 33309	(3) Role Prime - Surveying, Stormwater Modeling, Drainage Design, Plans & Specification Production, Permitting, Bidding Assistance, and CEI Services
b.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role
c.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role
d.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role
e.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role

<b>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b> <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		<b>20. EXAMPLE PROJECT KEY NUMBER</b> <div>23</div>
<b>21. TITLE AND LOCATION (CITY AND STATE)</b> Dillman Trail Improvements Greenacres, Florida	<b>22. YEAR COMPLETED</b> PROFESSIONAL SERVICES 2020	CONSTRUCTION (If applicable) 2024

23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER City of Greenacres	b. POINT OF CONTACT NAME Mr. Carlos I. Cedeño Public Works Director	c. POINT OF CONTACT TELEPHONE NUMBER Phone: (561) 642-2074 Email: <a href="mailto:ccedeno@greenacresfl.gov">ccedeno@greenacresfl.gov</a>

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Dillman Trail was a Palm Beach County TPA funded FDOT LAP project through the City of Greenacres as the local agency for a 3,964 linear foot meandering 12’ wide multi-use pathway and associated drainage swale, landscape, and irrigation system running north south connecting pathways between State Road 882 Forest Hill Boulevard and Dillman Road. The project required careful coordination with Lake Worth Drainage District as the project runs along and adjacent to the LWDD OPC canal. During the LAP process, Craven Thompson worked with Ramon Alvarez and Mya Williams with FDOT on the project.

Craven Thompson is providing Surveying, Landscape Architecture, Irrigation, Engineering and electrical services for the Dillman Trail Linear Pathway.

**Construction Cost: \$893,000.00**



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) FIRM NAME Craven Thompson & Associates, Inc.	(2) FIRM LOCATION <i>(City and State)</i> 4723 W. Atlantic Ave., Suite 12A Delray Beach, Florida 33445	(3) Role Prime – Surveying, Trail Design, Drainage ADA. LAP Services
b.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role
c.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role
d.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role
e.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role



F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER

24

21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
NW 4 <sup>th</sup> Court Sidewalk, Swale Regrading, Drainage & Roadway Improvements, Hallandale Beach, Florida	PROFESSIONAL SERVICES 2015	CONSTRUCTION (If applicable) 2016

23. PROJECT OWNER'S INFORMATION

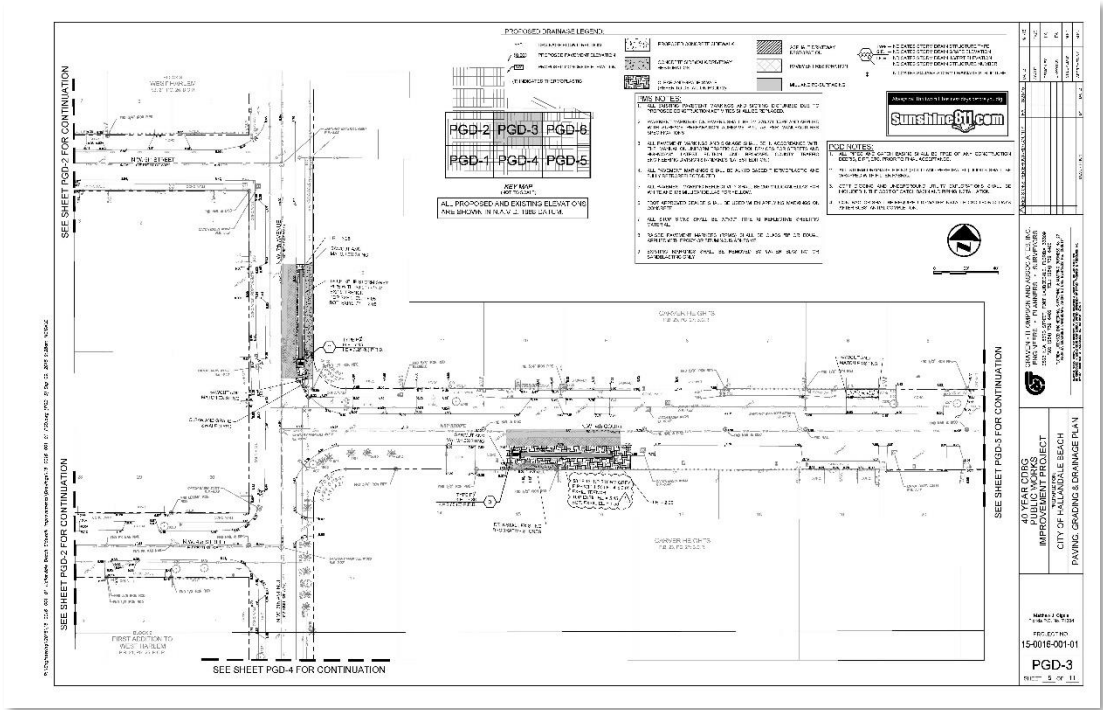
a. PROJECT OWNER City of Hallandale Beach	b. POINT OF CONTACT NAME Mr. Manga Ebbe Construction Program Manager	c. POINT OF CONTACT TELEPHONE NUMBER Phone: (954) 457-3043 Email: <a href="mailto:mebbe@cohb.org">mebbe@cohb.org</a>
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

The project included swale re-grading, drainage, ADA connections, and sidewalks for the Project Area. Swales were constructed adjacent to the new sidewalks and exfiltration trench was installed to eliminate nuisance flooding. The sidewalk was installed to complete the existing neighborhood sidewalk network.

Craven Thompson provided roadway design, drainage design, topographic survey, upgraded ADA pedestrian ramps and driveways, sidewalks, re-graded swales and coordination with drainage agencies.

Construction Cost: \$108,080.00



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Craven Thompson & Associates, Inc.	(2) FIRM LOCATION (City and State) 3563 NW 53 <sup>rd</sup> Street Fort Lauderdale, Florida 33309	(3) Role Prime: Surveying, stormwater modeling, drainage design, permitting, and CEI Services
b.	(1) FIRM NAME InfraMap Corp.	(2) FIRM LOCATION (City and State) 1100 N. Florida Mango Rd., Suite D West Palm Beach, Florida 33409	(3) Role Subconsultant: S.U.E. Services
c.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) Role
d.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) Role

<b>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b> <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	<b>20. EXAMPLE PROJECT KEY NUMBER</b>  <span style="font-size: 1.5em; font-weight: bold;">25</span>
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<b>21. TITLE AND LOCATION (CITY AND STATE)</b> SW 48 <sup>th</sup> Avenue Complete Streets Project West Park, Florida	<b>22. YEAR COMPLETED</b> <table style="width: 100%;"> <tr> <td style="width: 50%;">PROFESSIONAL SERVICES</td><td style="width: 50%;">CONSTRUCTION (If applicable)</td></tr> <tr> <td style="text-align: center;">2022 - 2023</td><td style="text-align: center;">2024</td></tr> </table>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	2022 - 2023	2024
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)				
2022 - 2023	2024				

<b>23. PROJECT OWNER'S INFORMATION</b>
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<b>a. PROJECT OWNER</b>  City of West Park	<b>b. POINT OF CONTACT NAME</b> Mr. Gregory Perry, P.E City Engineer	<b>c. POINT OF CONTACT TELEPHONE NUMBER</b> Phone: (954) 350-2705 Email: <a href="mailto:GPerry@cityofwestpark.org">GPerry@cityofwestpark.org</a>
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**24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT** *(Include scope, size, and cost)*

The project involves improvements along SW 48<sup>th</sup> Avenue, from Countyline Road to Pembroke Road by incorporating a complete streets design methodology. The broad objectives of a complete street design is to facilitate modes of transportation that is not centered on vehicular traffic only. The improvements for SW 48<sup>th</sup> Street include facilitating safe bike lanes and shared lanes that will allow all users of the street equal safe access to the right-of-way. This will require improvements to the asphalt paving (milling & resurfacing), sidewalks with ADA ramps, bicycle lanes, limited drainage improvements, traffic calming, landscaping and the addition of crosswalks and other complete street elements, such as textured pavement for visibility and driver awareness, pavers\*, shared lane markings (sharrows), signage, and drainage modifications. The governing standard for the construction plans is the 2021 Florida Green Book.

**Estimated Construction Cost: \$2.5 Million - \$3 Million**



<b>25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT</b>			
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a.	<b>(1) FIRM NAME</b> Craven Thompson & Associates, Inc.	<b>(2) FIRM LOCATION (City and State)</b> 3563 NW 53 <sup>rd</sup> Street Fort Lauderdale, Florida 33309	<b>(3) Role</b> Prime: Civil Engineering, Basis of Design Review, Landscape Architecture, Complete Streets, Permitting
b.	<b>(1) FIRM NAME</b> InfraMap Corp.	<b>(2) FIRM LOCATION (City and State)</b> 1100 N. Florida Mango Rd., Suite D West Palm Beach, Florida 33409	<b>(3) Role</b> Subconsultant: S.U.E. Services
c.	<b>(1) FIRM NAME</b>	<b>(2) FIRM LOCATION (City and State)</b>	<b>(3) Role</b>

<b>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b> <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		<b>20. EXAMPLE PROJECT KEY NUMBER</b> <div>26</div>				
<b>21. TITLE AND LOCATION (CITY AND STATE)</b> Lake Worth 2" Watermain Rehabilitation – Phase 4 Lake Worth Beach, Florida		<b>22. YEAR COMPLETED</b> <table border="1"> <tr> <td>PROFESSIONAL SERVICES</td> <td>CONSTRUCTION (If applicable)</td> </tr> <tr> <td>2018</td> <td>2020</td> </tr> </table>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	2018	2020
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)					
2018	2020					

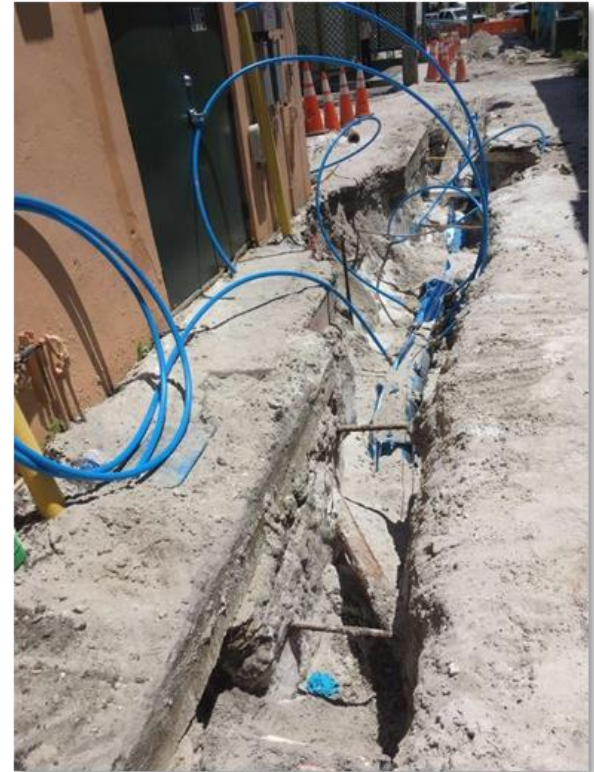
<b>23. PROJECT OWNER'S INFORMATION</b>		
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<b>a. PROJECT OWNER</b> City of Lake Worth Beach	<b>b. POINT OF CONTACT NAME</b> Mr. Jamie Brown Interim City Manager	<b>c. POINT OF CONTACT TELEPHONE NUMBER</b> Phone: (561) 586-1660 Email: <a href="mailto:jbrown@lakeworthbeachfl.org">jbrown@lakeworthbeachfl.org</a>
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<b>24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT</b> <i>(Include scope, size, and cost)</i>
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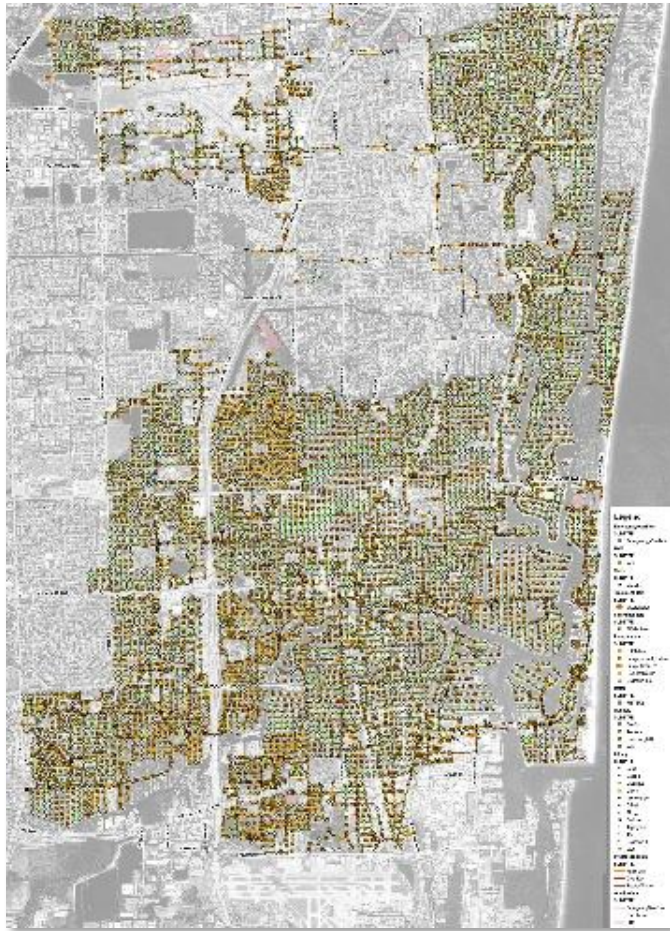
Lake Worth is a City situated in far eastern Palm Beach County with an aging and undersized infrastructure. The City developed a program for the replacement of all 2" diameter watermain throughout the City. This is to be accomplished in six (6) yearly phases. The City sought and secured a FDEP Drinking Water State Revolving Fund loan for the project. Craven Thompson was retained by the City to provide survey, design, permitting, DWSRF loan assistance and construction services for Phases 2 – 6 of the project. Phase 4 consists of: 11,876 linear feet of 4" diameter main, 9,217 linear feet of 6" diameter main, 714 water services, 19 fire hydrants, 61 gate valves, and the restoration of the right-of-way including roadway, curb & gutter and sidewalk.

**Construction Cost: \$3,499,666.00**




<b>25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT</b>		
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a.	<b>(1) FIRM NAME</b> Craven Thompson & Associates, Inc.	<b>(2) FIRM LOCATION (City and State)</b> 4723 W. Atlantic Ave., Suite 12A Delray Beach, Florida 33445	<b>(3) Role</b> Prime: Surveying, Civil Engineering, DWSRF Loan Assistance, Permitting, Bid Assistance, CEI Services
b.	<b>(1) FIRM NAME</b> InfraMap Corp.	<b>(2) FIRM LOCATION (City and State)</b> 1100 N. Florida Mango Rd., Suite D West Palm Beach, Florida 33409	<b>(3) Role</b> Subconsultant: S.U.E. Services
c.	<b>(1) FIRM NAME</b>	<b>(2) FIRM LOCATION (City and State)</b>	<b>(3) Role</b>
d.	<b>(1) FIRM NAME</b>	<b>(2) FIRM LOCATION (City and State)</b>	<b>(3) Role</b>
e.	<b>(1) FIRM NAME</b>	<b>(2) FIRM LOCATION (City and State)</b>	<b>(3) Role</b>

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT (Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)		20. EXAMPLE PROJECT KEY NUMBER <b>27</b>	
21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED		
Fort Lauderdale Sanitary Sewer System GIS & Surveying, Fort Lauderdale, Florida	PROFESSIONAL SERVICES <b>2018 - 2019</b>	CONSTRUCTION (If applicable) <b>Not Applicable</b>	
23. PROJECT OWNER'S INFORMATION			
a. PROJECT OWNER <b>City of Fort Lauderdale</b>	b. POINT OF CONTACT NAME <b>Ms. Brandy Leighton, P.E., PMP Senior Project Manager</b>	c. POINT OF CONTACT TELEPHONE NUMBER <b>Phone: (954) 828-5326 Email: <a href="mailto:bleighton@fortlauderdale.gov">bleighton@fortlauderdale.gov</a></b>	
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)			
<p>Craven Thompson established Primary and Secondary Vertical Control with over 3,000 new benchmarks for Sanitary Sewer Mapping of the City, including As-built/Inventory of Manholes, pump Stations, meters, valves, air valves and 80 miles of force mains. During Sewer Mapping Phase I, the Benchmarks and GPS Control monuments were established for each of the 52 Data Collection Zones (DCZ). The benchmarks and monuments were utilized with a GPS base station during the feature data acquisition phase. Phase II included multiple feature data acquisitions for the City's GIS System and for certain areas to be thoroughly modeled. The data acquisition features collected as part of this Phase included 5908 manholes, 190 Pump Stations, 15 Meters, and 80 miles of pressure pipes with 752 valves and 285 Air release valves.</p> <p>The initial work on this phase focused on the 5,908 manholes identified under Phase I. These features required the most of the field work and acquisition time. The manholes were divided into two categories, those that needed to be modeled completely, including 1,163 manholes which needed complete horizontal and vertical as-built information inside and out, and another 4,745 manholes which need only a minimum of horizontal and vertical information, being the rim and the inside bottom of structure.</p> <p>Craven Thompson collected and updated manhole GIS geodatabase. We utilized the Trimble Terraflex program to extract the database fields from the GIS manhole feature class inside of an electronic data collector (Samsung or iPad) for collecting the structure and pipe information inside of each manhole, pump stations and valve vaults.</p>			
			
25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) FIRM NAME <b>Craven Thompson &amp; Associates, Inc.</b>	(2) FIRM LOCATION (City and State) <b>3563 NW 53<sup>rd</sup> Street Fort Lauderdale, Florida 33309</b>	(3) Role <b>Sub-consultant: Surveying and Data Collection</b>
b.	(1) FIRM NAME <b>InfraMap Corp.</b>	(2) FIRM LOCATION (City and State) <b>1100 N. Florida Mango Rd., Suite D West Palm Beach, Florida 33409</b>	(3) Role <b>Subconsultant: S.U.E. Services</b>
c.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) Role
d.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) Role

<b>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b> <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		<b>20. EXAMPLE PROJECT KEY NUMBER</b> <b>28</b>
<b>21. TITLE AND LOCATION (CITY AND STATE)</b> Pump Station A-13 & Sewer Redirection East of Federal Highway, Fort Lauderdale, Florida	<b>22. YEAR COMPLETED</b> PROFESSIONAL SERVICES 2015	CONSTRUCTION (If applicable) 2019

<b>23. PROJECT OWNER'S INFORMATION</b>		
<b>a. PROJECT OWNER</b> City of Fort Lauderdale	<b>b. POINT OF CONTACT NAME</b> Mr. Jorge Holguin Senior Project Manager	<b>c. POINT OF CONTACT TELEPHONE NUMBER</b> Phone: (954) 828-5675 Email: <a href="mailto:JHolguin@fortlauderdale.gov">JHolguin@fortlauderdale.gov</a>

<b>24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT</b> <i>(Include scope, size, and cost)</i> This project was for the construction of Lift Station A-13, located at the southeast corner of Southeast 2 <sup>nd</sup> Court and Southeast 8 <sup>th</sup> Avenue. The project scope included the construction of an 18-inch diameter gravity sanitary sewer system and the connection to an existing active sanitary sewer manhole located at the intersection of Federal Highway and Broward Boulevard to the new lift station. The project also included the construction of a submersible triplex sewage pump station and valve vault with electric control panels and appurtenances. The Pump Station included a "Living Wall," located on the north, west, and east sides of the pump station site; this requires the removal of two trees, shrubs, and the restoration of the existing irrigation system. The project also included construction of a 14-inch diameter force main, within the right-of-way of Southeast 2 <sup>nd</sup> Court from the proposed Pump Station to an existing 48-inch diameter force main at the intersection of Southeast 2 <sup>nd</sup> Court and Southeast 9 <sup>th</sup> Avenue. Services included survey, utility locates, geotechnical, electrical engineering for pump station, sanitary sewer design, permitting, bid documents and construction services.	
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**Construction Cost: \$3,657,600.00**

<b>25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT</b>			
<b>a.</b>	<b>(1) FIRM NAME</b> Craven Thompson & Associates, Inc.	<b>(2) FIRM LOCATION (City and State)</b> 3563 NW 53 <sup>rd</sup> Street Fort Lauderdale, Florida 33309	<b>(3) Role</b> Prime: Surveying, Wastewater Modeling, Wastewater Design, Permitting, and CEI Services
<b>b.</b>	<b>(1) FIRM NAME</b> InfraMap Corp.	<b>(2) FIRM LOCATION (City and State)</b> 1100 N. Florida Mango Rd., Suite D West Palm Beach, Florida 33409	<b>(3) Role</b> Subconsultant: S.U.E. Services
<b>c.</b>	<b>(1) FIRM NAME</b>	<b>(2) FIRM LOCATION (City and State)</b>	<b>(3) Role</b>
<b>d.</b>	<b>(1) FIRM NAME</b>	<b>(2) FIRM LOCATION (City and State)</b>	<b>(3) Role</b>



<b>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b> <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	<b>20. EXAMPLE PROJECT KEY NUMBER</b>  <div style="font-size: 24pt; font-weight: bold;">29</div>
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<b>21. TITLE AND LOCATION (CITY AND STATE)</b>	<b>22. YEAR COMPLETED</b>	
Hallandale Beach Blvd. Boulevard Median Beautification Hallandale Beach, Florida	PROFESSIONAL SERVICES  2020	CONSTRUCTION (If applicable)  2022

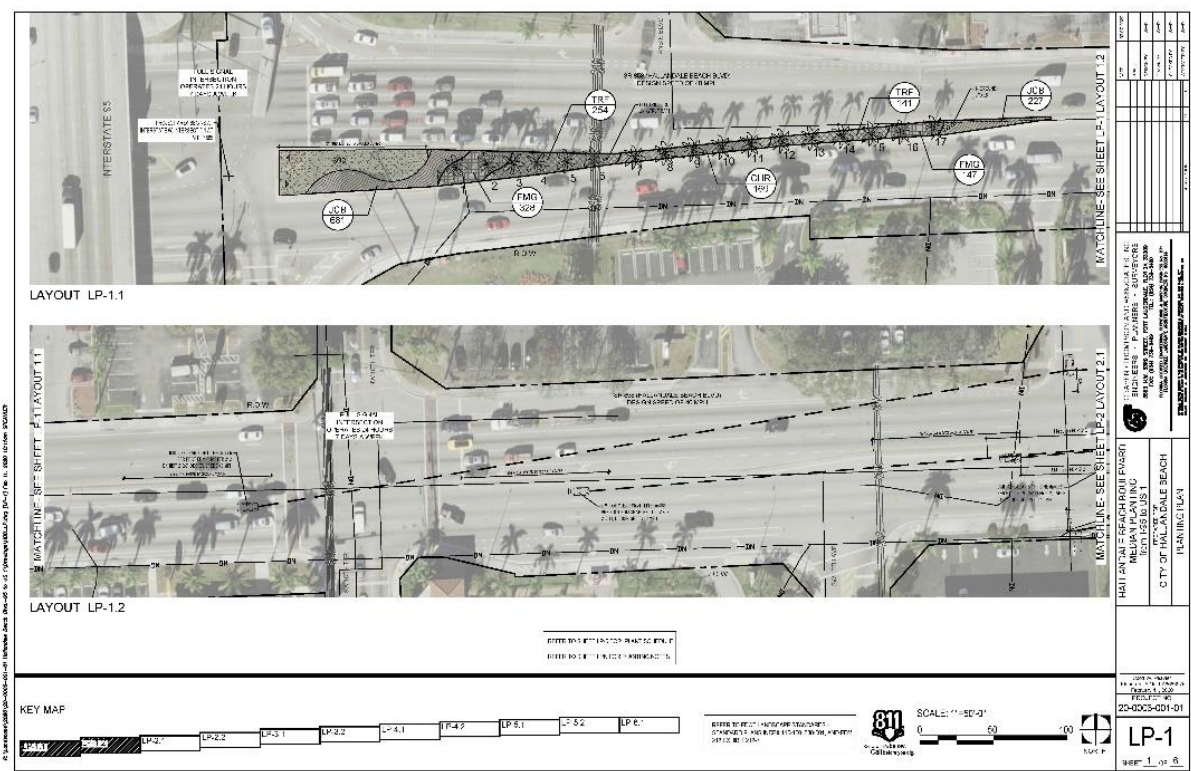
<b>23. PROJECT OWNER'S INFORMATION</b>
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a. PROJECT OWNER  City of Hallandale Beach	b. POINT OF CONTACT NAME  Mr. Manga Ebbe Construction Program Manager	c. POINT OF CONTACT TELEPHONE NUMBER Phone: (954) 457-3043 Email: <a href="mailto:mebbe@cohb.org">mebbe@cohb.org</a>
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**24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT** *(Include scope, size, and cost)*

Craven Thompson & Associates was retained by the City of Hallandale Beach to enhance the aesthetic appeal of Hallandale Beach Boulevard (State Road 858) from Federal Highway to I-95 (within the City limits) through landscaping improvements in the median of the multi-lane state highway. These improvements require review and approval from both the City and the Florida Department of Transportation (FDOT).

**Construction Cost: \$410,059.00**



<b>25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT</b>		
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a.	(1) FIRM NAME Craven Thompson & Associates, Inc.	(2) FIRM LOCATION <i>(City and State)</i> 3563 NW 53 <sup>rd</sup> Street Fort Lauderdale, Florida 33309	(3) Role Prime: Landscape Architecture, Urban Design
b.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role
c.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role
d.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role



<b>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b> <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		<b>20. EXAMPLE PROJECT KEY NUMBER</b>  <b>30</b>
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21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
Miramar Historic Area Complete Streets Phase II Miramar, Florida	PROFESSIONAL SERVICES  2017	CONSTRUCTION (If applicable)  2019

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of Miramar	Mr. Salvador Zuniga, P.E. City Engineer	Phone: (954) 602-3323 Email: <a href="mailto:sezuniga@miramarfl.gov">sezuniga@miramarfl.gov</a>

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Craven Thompson & Associates, Inc. was selected by the City of Miramar to survey, design, permit, and provide construction services for Phase II of their Historical Area Complete Streets Project. The project included surveying, landscape and engineering design, permitting and construction services for complete streets bounded by Pembroke Road to the north, County Line Road to the south, SW 62<sup>nd</sup> Avenue to the west, and State Road 7 to the east. The project included six (6) streets in the Historical Area. The improvements included: sidewalks, ADA ramps, crosswalks, pedestrian level lighting, landscaping and hardscape. The City received a grant through the Broward Redevelopment Program for the improvements. **Construction Cost: \$1.9 Million**



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Craven Thompson & Associates, Inc.	(2) FIRM LOCATION <i>(City and State)</i> 3563 NW 53 <sup>rd</sup> Street Fort Lauderdale, Florida 33309	(3) Role Prime: Surveying, Landscape Architecture / Complete Streets, Streetscape, Roadway Design, ADA
b.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role



<p style="text-align: center;"><b>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b></p> <p style="text-align: center;"><i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i></p>	<p><b>20. EXAMPLE PROJECT KEY NUMBER</b></p> <p style="font-size: 1.5em;"><b>31</b></p>
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<b>21. TITLE AND LOCATION (CITY AND STATE)</b> Stunson Nature Trail Oakland Park, Florida	<b>22. YEAR COMPLETED</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;">PROFESSIONAL SERVICES</td> <td style="width: 50%; text-align: center;">CONSTRUCTION (If applicable)</td> </tr> <tr> <td style="text-align: center;">2016 - 2020</td> <td style="text-align: center;">2022</td> </tr> </table>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	2016 - 2020	2022
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)				
2016 - 2020	2022				

<b>23. PROJECT OWNER'S INFORMATION</b>
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a. PROJECT OWNER City of Oakland Park	b. POINT OF CONTACT NAME Ms. Lori Douvris, Project Manager	c. POINT OF CONTACT TELEPHONE NUMBER Phone: (954) 630-4479 Email: <a href="mailto:lori.douvris@oaklandparkfl.gov">lori.douvris@oaklandparkfl.gov</a>
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**24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT** *(Include scope, size, and cost)*

The City of Oakland Park recently converted an underutilized piece of land used primarily for the storage of stormwater runoff into a park demonstrating the region’s various ecological zones with the use of plant selection and educational signage. The site continues to support stormwater runoff, but now connects a string of County and City parks, further providing open space and natural habitats for the community. Stunson Nature Trail is located in the Royal Palm Acres Neighborhood in the City of Oakland Park.



- Park improvements included:
- Created an educational experience along a walking trail that emphasizes the primary environmental zones
  - Enhanced wetland area
  - New landscaping and irrigation
  - Creation of earthen berms
  - Decorative fence with landscape buffer along NE 38th St.
- Craven Thompson provided Surveying, Civil Engineering, Landscape Architectural services. **Construction Cost: \$474,184.00**



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT		
a. (1) FIRM NAME Craven Thompson & Associates, Inc.	(2) FIRM LOCATION <i>(City and State)</i> 3563 NW 53 <sup>rd</sup> Street Fort Lauderdale, Florida 33309	(3) Role Prime: Landscape Architecture, Grading, Civil Design, Permitting, Construction Services
b. (1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role

<b>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b> <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	<b>20. EXAMPLE PROJECT KEY NUMBER</b> <div>32</div>
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21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
Parkland Library Expansion Hollywood, Florida	PROFESSIONAL SERVICES 2017-2019	CONSTRUCTION (If applicable) 2019 - 2020

### 23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER Williamson Dacar Associates	b. POINT OF CONTACT NAME Mr. Tom Donaudy Director, South Florida Operations	c. POINT OF CONTACT TELEPHONE NUMBER Phone: (561) 609-4544 Email: <a href="mailto:Tdonaudy@Williamsondacar.biz">Tdonaudy@Williamsondacar.biz</a>
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### 24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

The City's objective was to have design professionals design a functional and effective expansion to the existing City Library facility located at the Municipal Complex, 6620 University Drive, Parkland, Florida with a strong emphasis on efficient space utilization and effective site aesthetics. The size of the expansion 6,900 square feet, a separate space for children and families, a multi-purpose program area, and fit within the existing footprint owned by the City.

Craven Thompson provided professional Surveying, Landscape Architecture and Civil Engineering Services for the above referenced project.

**Construction Cost: \$3.5 Million**



### 25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Craven Thompson & Associates, Inc.	(2) FIRM LOCATION <i>(City and State)</i> 3563 NW 53 <sup>rd</sup> Street Fort Lauderdale, Florida 33309	(3) Role Subconsultant: Surveying, Civil Design, Landscape Architecture, Permitting, Bid Assistance, Construction Services
b.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role
c.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role
d.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role



<b>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b> <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	<b>20. EXAMPLE PROJECT KEY NUMBER</b> <div>33</div>
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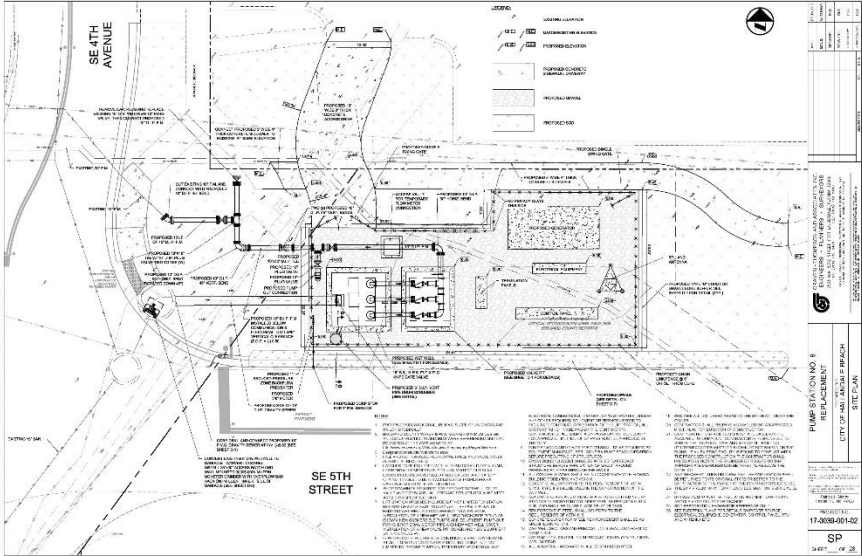
<b>21. TITLE AND LOCATION (CITY AND STATE)</b> Wastewater Pump Station No. 8 Survey Hallandale Beach, Florida	<b>22. YEAR COMPLETED</b> PROFESSIONAL SERVICES 2018 - 2019	CONSTRUCTION (If applicable) 2020
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23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER City of Hallandale Beach	b. POINT OF CONTACT NAME Mr. Peter Kunen City Engineer	c. POINT OF CONTACT TELEPHONE NUMBER Phone: (954) 457-3042 Email: <a href="mailto:pkunen@cohb.org">pkunen@cohb.org</a>
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Craven Thompson & Associates provided surveying design and permitting for Wastewater Pumping Station No. 8. The station is located at the northeast corner of SE 5<sup>th</sup> Street and Old Federal Highway. The project included the demolition of and temporary bypass pumping for existing Wastewater Pump Station No. 8. The new submersible tri-plex lift station has three (3) 60HP Myers 6VC600M4-43 pumps in a ten (10) foot diameter wet well. The station pumps 1140 GPM @ 117’TDH.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Craven Thompson & Associates, Inc.	(2) FIRM LOCATION <i>(City and State)</i> 3563 NW 53 <sup>rd</sup> Street Fort Lauderdale, Florida 33309	(3) Role Prime: Surveying, design, wastewater modeling, permitting, and CEI services
b.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role
c.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role
d.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role
e.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role



<b>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b> <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	<b>20. EXAMPLE PROJECT KEY NUMBER</b> <b>34</b>
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<b>21. TITLE AND LOCATION (CITY AND STATE)</b> Utility Analysis Zone (UAZ) 108 Lauderdale Lakes, Florida	<b>22. YEAR COMPLETED</b> PROFESSIONAL SERVICES 2016	CONSTRUCTION (If applicable) 2024
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<b>23. PROJECT OWNER'S INFORMATION</b>
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<b>a. PROJECT OWNER</b> Broward County Water & Wastewater Services	<b>b. POINT OF CONTACT NAME</b> Mr. Mike Hagerty, P.E., LEED AP Engineering Unit Supervisor	<b>c. POINT OF CONTACT TELEPHONE NUMBER</b> Phone: (954) 831-3217 Email: <a href="mailto:mhagerty@broward.org">mhagerty@broward.org</a>
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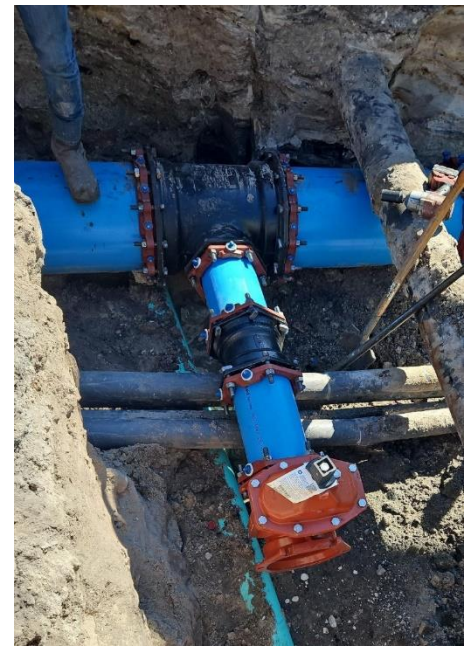
**24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT** *(Include scope, size, and cost)*  
 UAZ 108, a two hundred and twenty (220) acre area, is bounded by NW 44<sup>th</sup> Street to the north, NW 31<sup>st</sup> Avenue to the east, the SFWMD C-13 Canal to the south, and State Road 7 to the west in the City of Lauderdale Lakes, Florida.

The project included the construction of a sanitary sewer collection system consisting of:

- 26,875 LF of 8" gravity main
- 1,395 LF of 10" gravity main
- 2,790 LF of 12" gravity main
- 1,530 LF of 6" force main
- 3,630 LF of 8" force main
- 1,350 LF of 10" force main
- 1,140 LF of 16" force main
- 452 service laterals
- Two lift stations

The water distribution system improvements included:

- 24,560 LF of 6" main
- 8,450 LF of 8" main
- 6,300 LF of 10" main
- 975 LF of 12" main
- 150 LF of 16" main
- 1,425 LF of 20" main
- abandonment and grouting of 35,575 LF of existing watermain
- the construction of 441 water services (200 of which were back to front conversions)




In addition, 36,000 LF of roadway reconstruction was included along with right-of-way restoration.

Craven Thompson modeled the water and sewer systems using SewerCAD and WaterCAD as well as created the construction documents, permitting, assisting with bidding and CEI services for the infrastructure rehabilitation projects.

<b>25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT</b>
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<b>a.</b> (1) FIRM NAME Craven Thompson & Associates, Inc.	(2) FIRM LOCATION <i>(City and State)</i> 3563 NW 53 <sup>rd</sup> Street Fort Lauderdale, Florida 33309	(3) Role Prime: Surveying, Utility Modeling, Civil Engineering, Permitting, Bid Assistance, CEI/Construction Management & Inspection Services
<b>b.</b> (1) FIRM NAME InfraMap Corp.	(2) FIRM LOCATION <i>(City and State)</i> 1100 N. Florida Mango Rd., Suite D West Palm Beach, Florida 33409	(3) Role Subconsultant: S.U.E. Services



<b>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b> <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		<b>20. EXAMPLE PROJECT KEY NUMBER</b> <div>35</div>	
<b>21. TITLE AND LOCATION (CITY AND STATE)</b> Original Section Drainage Improvements – Phases 1-6 Greenacres, Florida		<b>22. YEAR COMPLETED</b> PROFESSIONAL SERVICES 2014 -2019	CONSTRUCTION (If applicable) 2020
<b>23. PROJECT OWNER'S INFORMATION</b>			
a. PROJECT OWNER City of Greenacres		b. POINT OF CONTACT NAME Mr. Carlos I. Cedeño Public Works Director	
		c. POINT OF CONTACT TELEPHONE NUMBER Phone: (561) 642-2074 Email: <a href="mailto:ccedeno@greenacresfl.gov">ccedeno@greenacresfl.gov</a>	
<b>24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT</b> <i>(Include scope, size, and cost)</i> <p>The Original Section Drainage Improvements project located in the City of Greenacres is a master planned drainage improvement project for an existing 246 - acre neighborhood between Jackson Avenue and Fleming Avenue from Lake Worth Road to 10<sup>th</sup> Avenue North. The Master Plan included the modeling of existing and proposed drainage improvements using <i>Interconnected Channel and Pond Routing</i> (ICPR) software and developing phased improvements for the area. The project required over 6,500 LF of drainage pipe, extensive ditch re-shaping, long lengths of sidewalk replacement, driveway restorations, and pavement restoration. Project challenges included improving a neighborhood without a typical modern drainage system in and working with numerous franchise utility conflicts.</p> <ul style="list-style-type: none"> <li>▪ The Phase 1 project required installation of 500 LF of 36" RCP storm pipe, 1,010 LF of 24" RCP Storm Pipe, 156 LF of 18" RCP Storm Pipe, 156 LF of 12"x18" RCP Storm Pipe, significant ditch reshaping, sidewalk replacement, and replacement of outfall to LWDD canal;</li> <li>▪ Phase 2 included 6,200 LF of ditch grading and 4 culvert crossings;</li> <li>▪ Phase 3 included 1,000 LF of drainage pipe;</li> <li>▪ Phase 4 involved ditch reshaping and 5 culvert crossings;</li> <li>▪ Phase 5 encompassed the replacement of 6 outfalls, and the restoration of 120 LF of canal;</li> <li>▪ Phase 6 included the replacement of 9 outfalls, the installation of drainage pipe, and canal restoration.</li> </ul> <p><i>Each phase was permitted through the Lake Worth Drainage District (LWDD)</i></p> <p><b>Construction Cost:</b>  Phase 1: \$452,970.00  Phase 2: \$212,340.00  Phase 3: \$327,765.00  Phase 4: \$200,730.00  Phase 5: \$166,533.00  Phase 6: \$276,760.00</p>			
			
<b>25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT</b>			
a.	(1) FIRM NAME Craven Thompson & Associates, Inc.	(2) FIRM LOCATION <i>(City and State)</i> 4723 W. Atlantic Ave., Suite 12A Delray Beach, Florida 33445	(3) Role Prime: Surveying, Stormwater Modeling, Drainage Design, Permitting, and CEI Services
b.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role
c.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role
d.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role

<b>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b> <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	<b>20. EXAMPLE PROJECT KEY NUMBER</b> <div>36</div>
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<b>21. TITLE AND LOCATION (CITY AND STATE)</b> Sunrise Sportsplex Sunrise, Florida	<b>22. YEAR COMPLETED</b> PROFESSIONAL SERVICES 2017 - 2018	CONSTRUCTION (If applicable) 2018 - 2019
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<b>23. PROJECT OWNER'S INFORMATION</b>		
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<b>a. PROJECT OWNER</b> City of Sunrise	<b>b. POINT OF CONTACT NAME</b> Mr. Alan Gavazzi Capital Projects Director	<b>c. POINT OF CONTACT TELEPHONE NUMBER</b> Phone: (954) 572-2487 Email: <a href="mailto:agavazzi@sunrisefl.gov">agavazzi@sunrisefl.gov</a>
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<b>24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT</b> <i>(Include scope, size, and cost)</i> Craven Thompson & Associates was selected by the City of Sunrise as the Prime Consultant to oversee all professional services including professional Surveying, Landscape Architectural, Civil Engineering, Architectural and Geotechnical Services for the proposed 16.5-Acre (bond-funded) Athletic Complex located at Pine Island Road and NW 50th Street.
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In general, the project included:

- Four (4) Baseball / Softball Fields
- Two (2) Soccer fields or One (1) Full Size Multi-Use Soccer / Football Field
- Hard covered dugouts
- Bleachers with cantilevered shade canopies
- Centralized two-story concession, restroom, meeting space and scorer's building
- One (1) restroom / maintenance building for the Soccer Fields
- Two (2) playgrounds with shade structures
- Sports lighting for all fields
- Batting cages
- Two (2) parking lots with entry signage
- Southbound Right turn lane on Pine Island Road
- Pedestrian connections to West Pine Middle School for shared use facilities agreement



**Construction Cost: \$10,182,000.00**

<b>25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT</b>		
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<b>a.</b>	<b>(1) FIRM NAME</b> Craven Thompson & Associates, Inc.	<b>(2) FIRM LOCATION (City and State)</b> 3563 NW 53 <sup>rd</sup> Street Fort Lauderdale, Florida 33309	<b>(3) Role</b> Prime: Surveying, Landscape Architecture
<b>b.</b>	<b>(1) FIRM NAME</b> InfraMap Corp.	<b>(2) FIRM LOCATION (City and State)</b> 1100 N. Florida Mango Rd., Suite D West Palm Beach, Florida 33409	<b>(3) Role</b> Subconsultant: S.U.E. Services
<b>c.</b>	<b>(1) FIRM NAME</b>	<b>(2) FIRM LOCATION (City and State)</b>	<b>(3) Role</b>
<b>d.</b>	<b>(1) FIRM NAME</b>	<b>(2) FIRM LOCATION (City and State)</b>	<b>(3) Role</b>
<b>e.</b>	<b>(1) FIRM NAME</b>	<b>(2) FIRM LOCATION (City and State)</b>	<b>(3) Role</b>



**F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT**  
*(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*

20. EXAMPLE PROJECT KEY NUMBER

**37**

21. TITLE AND LOCATION (CITY AND STATE)

Fire Station 13  
Fort Lauderdale, Florida

22. YEAR COMPLETED

PROFESSIONAL SERVICES

2020 - 2023

CONSTRUCTION (If applicable)

To Be Determined

**23. PROJECT OWNER'S INFORMATION**

a. PROJECT OWNER

City of Fort Lauderdale

b. POINT OF CONTACT NAME

Danica Grujiic  
Project Manager II

c. POINT OF CONTACT TELEPHONE NUMBER

Phone: (954) 828-5055

Email: [dgrujic@fortlauderdale.gov](mailto:dgrujic@fortlauderdale.gov)

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Craven Thompson is providing Civil Engineering, Planning, and Landscape Architecture Services for the new Fire Station No. 13 in the City of Fort Lauderdale located at 2871 East Sunrise Boulevard. The new fire station will replace the existing fire station on the same site. The proposed station will be approximately 10,000-12,000 square feet with three bays housing twelve fire fighters. The new facility is anticipated to be three stories.

**Estimated Construction Cost: \$4,748,812.00**



**25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT**

a.	(1) FIRM NAME Craven Thompson & Associates, Inc.	(2) FIRM LOCATION <i>(City and State)</i> 3563 NW 53 <sup>rd</sup> Street Fort Lauderdale, Florida 33309	(3) Role Sub-consultant: Surveying, Landscape Architecture. Civil Engineering
b.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role
c.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role
d.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role



<b>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b> <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	<b>20. EXAMPLE PROJECT KEY NUMBER</b> <div>38</div>
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<b>21. TITLE AND LOCATION (CITY AND STATE)</b> Swain Boulevard Complete Street Project Greenacres, Florida	<b>22. YEAR COMPLETED</b> PROFESSIONAL SERVICES 2021	CONSTRUCTION (If applicable) 2025
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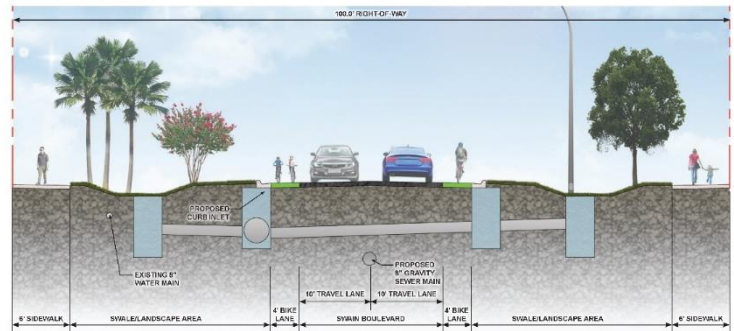
23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER City of Greenacres	b. POINT OF CONTACT NAME Mr. Carlos I. Cedeño Public Works Director	c. POINT OF CONTACT TELEPHONE NUMBER Phone: (561) 642-2074 Email: <a href="mailto:ccedeno@greenacresfl.gov">ccedeno@greenacresfl.gov</a>
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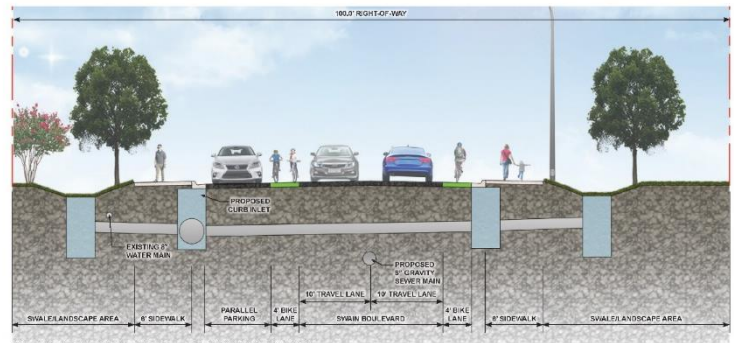
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Craven Thompson is designing and permitting this project in Greenacres. The Swain Boulevard Complete Streets is a 4,500 linear foot project running from Lake Worth Road to 10<sup>th</sup> Avenue North. The project includes bicycle lanes of both sides of the street, sidewalks, parallel parking, landscape, hardscape and drainage. It also includes traffic circles at 1<sup>st</sup> Street, and 4<sup>th</sup> Street. Craven Thompson is providing planning, surveying, roadway design, drainage design, permitting and landscape architecture for the project.

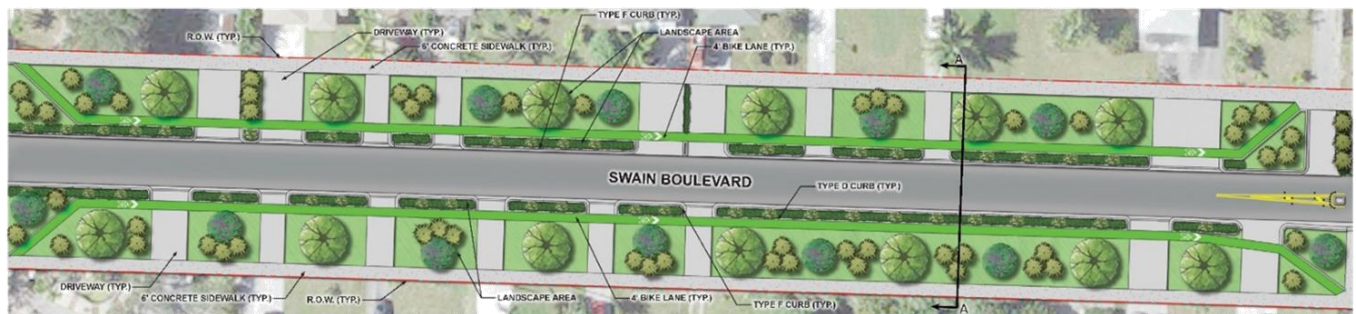
**Construction Cost:**  
**Estimated at \$3.8 Million**



BIKE LANE ADJACENT TO ROADWAY OPTION



ON-STREET PARALLEL PARKING OPTION



CONCEPTUAL PLAN VIEW



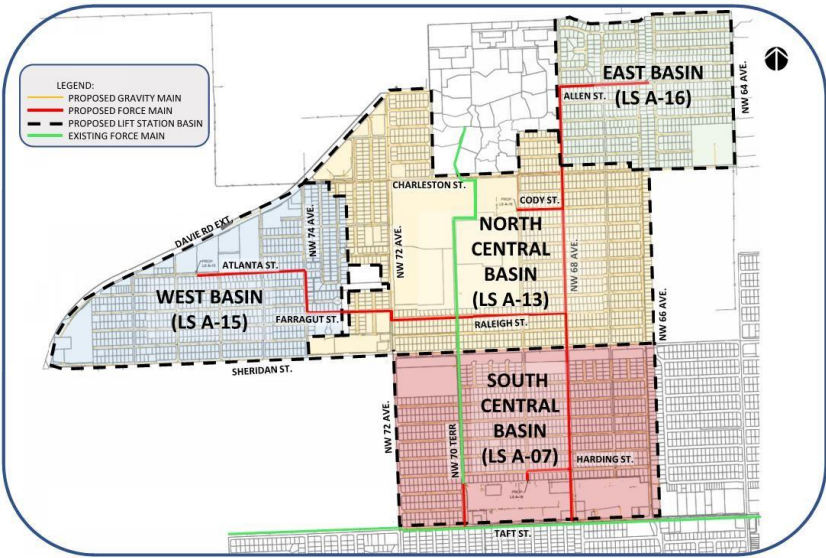
25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Craven Thompson & Associates, Inc.	(2) FIRM LOCATION <i>(City and State)</i> 4723 W. Atlantic Ave., Suite 12A Delray Beach, Florida 33445	(3) Role Prime: Surveying, Roadway Design, Traffic Calming, Landscape Architecture, Drainage ADA
b.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role



<b>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b> <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		<b>20. EXAMPLE PROJECT KEY NUMBER</b> <div>39</div>
<b>21. TITLE AND LOCATION (CITY AND STATE)</b> Driftwood Septic to Sewer Conversion & Watermain Replacement – Phase 1, Hollywood, Florida		<b>22. YEAR COMPLETED</b> PROFESSIONAL SERVICES: 2018 - 2021 CONSTRUCTION (If applicable): 2022 - 2025
<b>23. PROJECT OWNER'S INFORMATION</b>		
<b>a. PROJECT OWNER</b> City of Hollywood	<b>b. POINT OF CONTACT NAME</b> Mr. Jeff Jiang, P.E., Assistant Director Public Utilities / Engineering	<b>c. POINT OF CONTACT TELEPHONE NUMBER</b> Phone: (954) 921-3930 Email: <a href="mailto:fjiang@hollywoodfl.org">fjiang@hollywoodfl.org</a>
<b>24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT</b> <i>(Include scope, size, and cost)</i>		

This was part of the City-wide conversion of existing private sewer septic tank systems by expanding the city operated and maintained public sanitary sewer collection system. Craven Thompson created a Basis of Design Report and preliminary design layout splitting the service area into two (2) sewer basins. The layout provided expanded sanitary sewer service to approximately 1,828 single family residences, 222 multifamily residences and 981,000 SF of commercial property; for a total Average Daily Flow (ADF) of 733,900 GPD. Craven Thompson performed mobile LiDAR surveying, water meter use analysis, gravity sanitary sewer and force main system modeling and calibration, design, permitting and limited construction inspection of approximately 81,654 linear feet of 8" to 18" gravity sewer main, 16,598 linear feet of 8" to 30" force main, 9,416 linear feet of 16" reclaimed water main design, water main replacement, and 274 structures. Craven Thompson coordinated with the lot owners on easement requirements and connection details. This project also includes the removal and decommissioning of 11 existing lift stations, providing new service laterals and right-of-way restoration including pavement marking and signage.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) FIRM NAME Craven Thompson & Associates, Inc.	(2) FIRM LOCATION <i>(City and State)</i> 3563 NW 53 <sup>rd</sup> Street Fort Lauderdale, Florida 33309	(3) Role Prime: Surveying, Watermain Design, Permitting
b.	(1) FIRM NAME InfraMap Corp.	(2) FIRM LOCATION <i>(City and State)</i> 1100 N. Florida Mango Rd., Suite D West Palm Beach, Florida 33409	(3) Role Subconsultant: S.U.E. Services
c.	(1) FIRM NAME .	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role



<b>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b> <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	<b>20. EXAMPLE PROJECT KEY NUMBER</b> <div>40</div>
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21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
2 <sup>nd</sup> Street Traffic Circle and Sidewalk Improvements Greenacres, Florida	PROFESSIONAL SERVICES  2020	CONSTRUCTION (If applicable)  2023

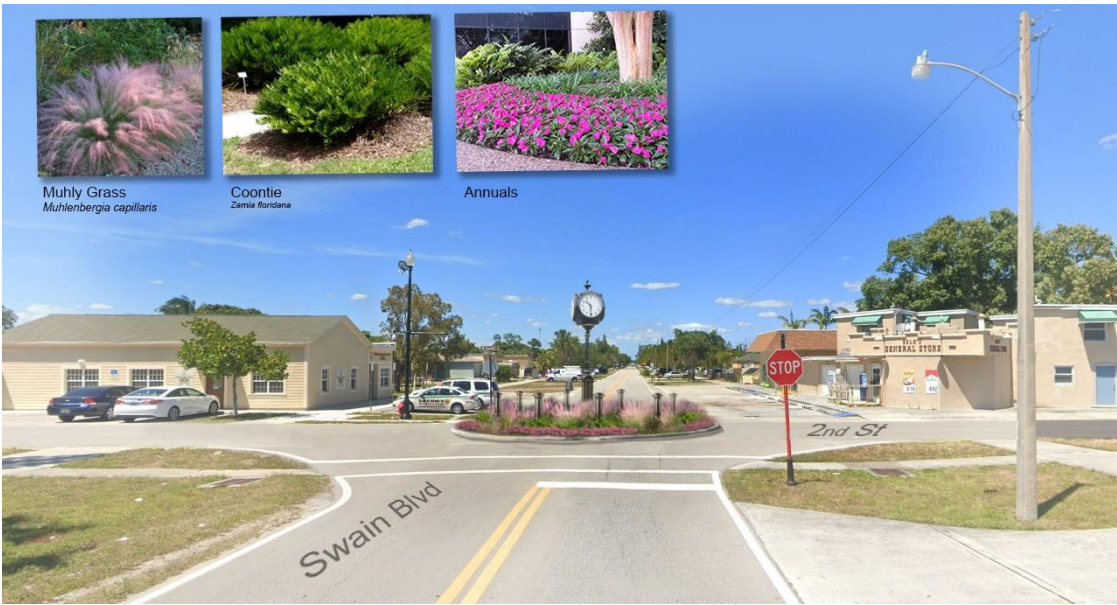
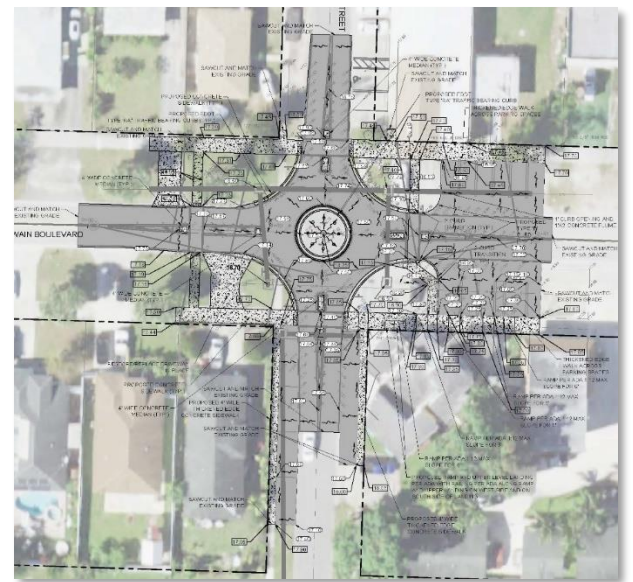
23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER  City of Greenacres	b. POINT OF CONTACT NAME Mr. Carlos I. Cedeño Public Works Director	c. POINT OF CONTACT TELEPHONE NUMBER Phone: (561) 642-2074 Email: <a href="mailto:ccedeno@greenacresfl.gov">ccedeno@greenacresfl.gov</a>
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Craven Thompson designed and permitted a traffic circle at 2<sup>nd</sup> Street and Swain Boulevard in Greenacres. This included landscape, hardscape and a clock feature within the circle. Curb & gutter, sidewalk and drainage were included along with other utility adjustments and relocations. The project also included: 18,300 feet (3.14 miles) of proposed sidewalk, & ADA improvements as well as drainage design for drainage in conflict with proposed sidewalk. The project was permitted through the Lake Worth Drainage District (LWDD).

**Construction Cost: \$1.78 million**



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Craven Thompson & Associates, Inc.	(2) FIRM LOCATION <i>(City and State)</i> 4723 W. Atlantic Ave., Suite 12A Delray Beach, Florida 33445	(3) Role Prime: Surveying, Roadway Design, Traffic Calming, Drainage ADA
b.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role

<b>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b> <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		<b>20. EXAMPLE PROJECT KEY NUMBER</b> <div>41</div>
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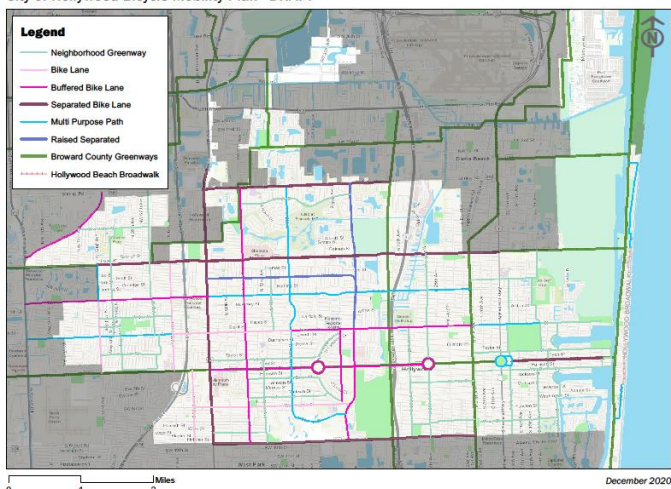
<b>21. TITLE AND LOCATION (CITY AND STATE)</b> Hollywood Blvd. Conceptual Master Rehabilitation Plan Hollywood, Florida	<b>22. YEAR COMPLETED</b> PROFESSIONAL SERVICES 2020 - 2021	CONSTRUCTION (If applicable) NA
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<b>23. PROJECT OWNER'S INFORMATION</b>		
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<b>a. PROJECT OWNER</b> City of Hollywood	<b>b. POINT OF CONTACT NAME</b> Ms. Heather Guenot, P.E. Senior Project Manager	<b>c. POINT OF CONTACT TELEPHONE NUMBER</b> Phone: (954) 649-4389 Email: <a href="mailto:hguenot@hollywoodfl.org">hguenot@hollywoodfl.org</a>
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<b>24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT</b> <i>(Include scope, size, and cost)</i> <p>The Hollywood Boulevard Rehabilitation Project was the conceptual design for the reconstruction of approximately 3800' feet of Hollywood Boulevard from S 28<sup>th</sup> Avenue on the west, to the east side of City Hall Circle. A number of improvements were designed to improve the aging infrastructure and promote multi-modal transportation through the heart of the City of Hollywood. Proposed improvements included reconstruction of the asphalt roadway, buffered bicycle lanes throughout the project corridor, improving sidewalk connectivity and ADA compliance, replacing the existing paver crosswalks with colored asphalt crosswalks, reconfiguring intersection geometry at two (2) intersections to improve safety, and improving the existing signage.</p>
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City of Hollywood Bicycle Mobility Plan - DRAFT



- Provide bicyclists with a safe and effective connection through the heart of the City's long-term bicycle mobility plan.
- Encourage bicycle use through corridor to reduce traffic and impact on environment.

<b>25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT</b>		
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a.	(1) FIRM NAME Craven Thompson & Associates, Inc.	(2) FIRM LOCATION <i>(City and State)</i> 3563 NW 53 <sup>rd</sup> Street Fort Lauderdale, Florida 33309	(3) Role Prime: Landscape Architecture / Master Plan, Streetscape, Roadway Design, ADA
b.	(1) FIRM NAME Quantum Electrical Engineering, Inc.	(2) FIRM LOCATION <i>(City and State)</i> 5571 N. University Drive, Suite 101 Coral Springs, Florida 33067	(3) Role Subconsultant: Electrical Engineering Services
c.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role
d.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role

<b>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b> <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		<b>20. EXAMPLE PROJECT KEY NUMBER</b> <div>42</div>
<b>21. TITLE AND LOCATION (CITY AND STATE)</b> Miramar Parkway & Miramar Boulevard Median Enhancements, Miramar, Florida		<b>22. YEAR COMPLETED</b> PROFESSIONAL SERVICES 2017 – 2023 (Phased) CONSTRUCTION (If applicable) 2022-2024 (Phased)
<b>23. PROJECT OWNER'S INFORMATION</b>		
<b>a. PROJECT OWNER</b> City of Miramar	<b>b. POINT OF CONTACT NAME</b> Mr. Salvador Zuniga, P.E. City Engineer	<b>c. POINT OF CONTACT TELEPHONE NUMBER</b> Phone: (954) 602-3323 Email: <a href="mailto:sezuniga@miramarfl.gov">sezuniga@miramarfl.gov</a>

**24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT** *(Include scope, size, and cost)*

The project is along Miramar Parkway from the Florida Turnpike to Palm Avenue and along Miramar Boulevard from University Drive to Palm Avenue. The project included landscaping and hardscape for two main thoroughfares through the City of Miramar. The medians lack aesthetic appeal and require various beautification enhancements. This is Phase I of a multi-phased project. The project required permitting through the City and Broward County Construction and Highway Engineering Department. Craven Thompson & Associates is provided surveying and landscape architectural services.

**Construction Cost: \$1.2 Million (Estimated)**



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT		
a.	(1) FIRM NAME Craven Thompson & Associates, Inc.	(2) FIRM LOCATION <i>(City and State)</i> 3563 NW 53 <sup>rd</sup> Street Fort Lauderdale, Florida 33309
b.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>
c.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>
		(3) Role Prime: Median Beautification/ Landscape Architecture
		(3) Role
		(3) Role



F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT (Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)		20. EXAMPLE PROJECT KEY NUMBER <b>43</b>
21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
Hollywood Seminole Reservation Stormwater Data Collection/GIS, Hollywood, Florida	PROFESSIONAL SERVICES <b>2020 - 2021</b> (Data Collection)	CONSTRUCTION (If applicable) <b>Not Applicable</b>

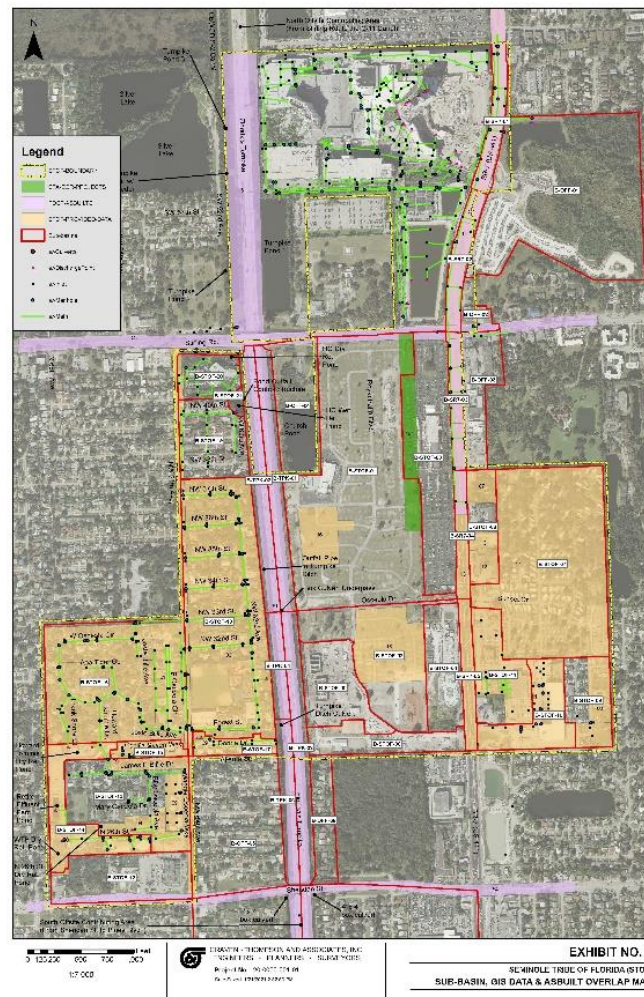
23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER <b>Seminole Tribe of Florida</b>	b. POINT OF CONTACT NAME <b>Mr. Ranthus Fouch, P.E. Senior Civil Engineer</b>	c. POINT OF CONTACT TELEPHONE NUMBER <b>Phone: (954) 203-1034</b> <b>Email: <a href="mailto:ranthusfouch@semtribe.com">ranthusfouch@semtribe.com</a></b>

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)
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The Hollywood Seminole Reservation is generally bounded by Stirling Road on the north and by Sheridan Street on the south and includes the Hard Rock Hotel and Casino which is located north of Stirling Road. The east and west boundaries are formed by existing residential neighborhoods in the City of Hollywood. Craven Thompson updated the Tribe's stormwater GIS information through entering as-built data, and surveying the hundreds of stormwater/drainage structures located on the reservation

Craven Thompson acquired accurate horizontal and vertical information on every stormwater/drainage feature on the Tribe's Hollywood Reservation. We reviewed existing storm sewer surveys and as-builts that could assist with GIS location and with this information our survey crew measured each structure to get accurate horizontal and vertical information for the Tribe's GIS system. During the data collection phase, the GPS locations of structures, canals, retention areas and ditches were captured with X-Y-Z coordinate values in the data collector. In addition, details such as pipe sizes, material, inverts, weirs, age, and structure condition were obtained in the field.

We modified the Tribe's GIS database to include new relevant information and to include all information from the data collection efforts and condition assessment.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) FIRM NAME <b>Craven Thompson &amp; Associates, Inc.</b>	(2) FIRM LOCATION (City and State) <b>3563 NW 53rd Street Fort Lauderdale, Florida 33309</b>	(3) Role <b>Prime: Stormwater Master Plan, G.I.S. Data Collection &amp; Mapping</b>
b.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) Role
c.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) Role



<b>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b> <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	<b>20. EXAMPLE PROJECT KEY NUMBER</b> <div>44</div>
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21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
Kingfisher Canal Outfall Treatment Structure Project Deerfield Beach, Florida	PROFESSIONAL SERVICES 2017	CONSTRUCTION (If applicable) 2019

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER City of Deerfield Beach	b. POINT OF CONTACT NAME Priscilla Cygielnik, P.E. City Engineer	c. POINT OF CONTACT TELEPHONE NUMBER Phone: (954) 480-4432 Email: <a href="mailto:pcygielnik@deerfield-beach.com">pcygielnik@deerfield-beach.com</a>
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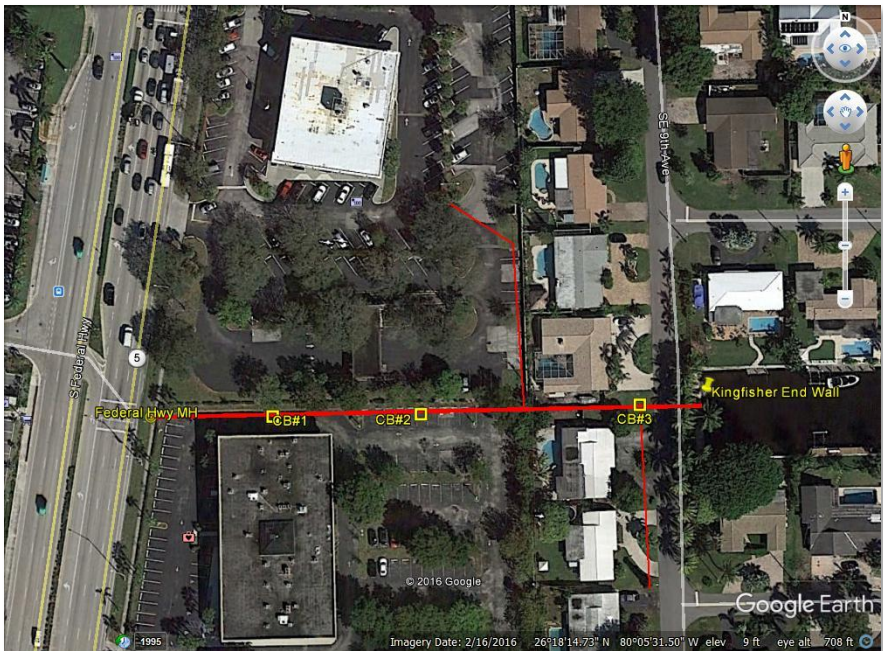
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

The existing outfall system had several connections from adjacent properties such as US 1, areas west of US 1, and the commercial properties that the pipe traverses easterly toward the canal. This system is very susceptible to conveying floating debris and other pollutants to the canal due to US 1 curb inlets allowing floatables to pass from the inlets into the pipe without impediment.

The improvements consisted of combining both the twenty-four (24") inch and seventy-two (72") inch systems together in SE 9<sup>th</sup> Avenue. Installation of a CDS, water quality structure in-line with the seventy-two (72") inch pipe after the two systems combine was completed. The work included removing the existing drainage structure on the seventy-two (72") inch pipe at SE 9<sup>th</sup> Avenue and replacing it with a large structure to accommodate both pipes and the installation of the CDS structure.

The in-line system has an internal by-pass within the water quality treatment device. If there is ever a blockage in the by-pass within the device, the system will back up and spill out of the catch basins located along both drainage systems and drain into the canal by overland flow. The CDS structure is ten (10') foot in diameter and will accommodate the combined flow from both systems.

**Construction Cost: \$313,625.00**



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Craven Thompson & Associates, Inc.	(2) FIRM LOCATION (City and State) 3563 NW 53 <sup>rd</sup> Street Fort Lauderdale, Florida 33309	(3) Role Prime: Stormwater Management, Storm System Design, Permitting, Survey, and CEI Services
b.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) Role
c.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) Role
d.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) Role

<p><b>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b>  <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i></p>	<p>20. EXAMPLE PROJECT KEY NUMBER <b>45</b></p>
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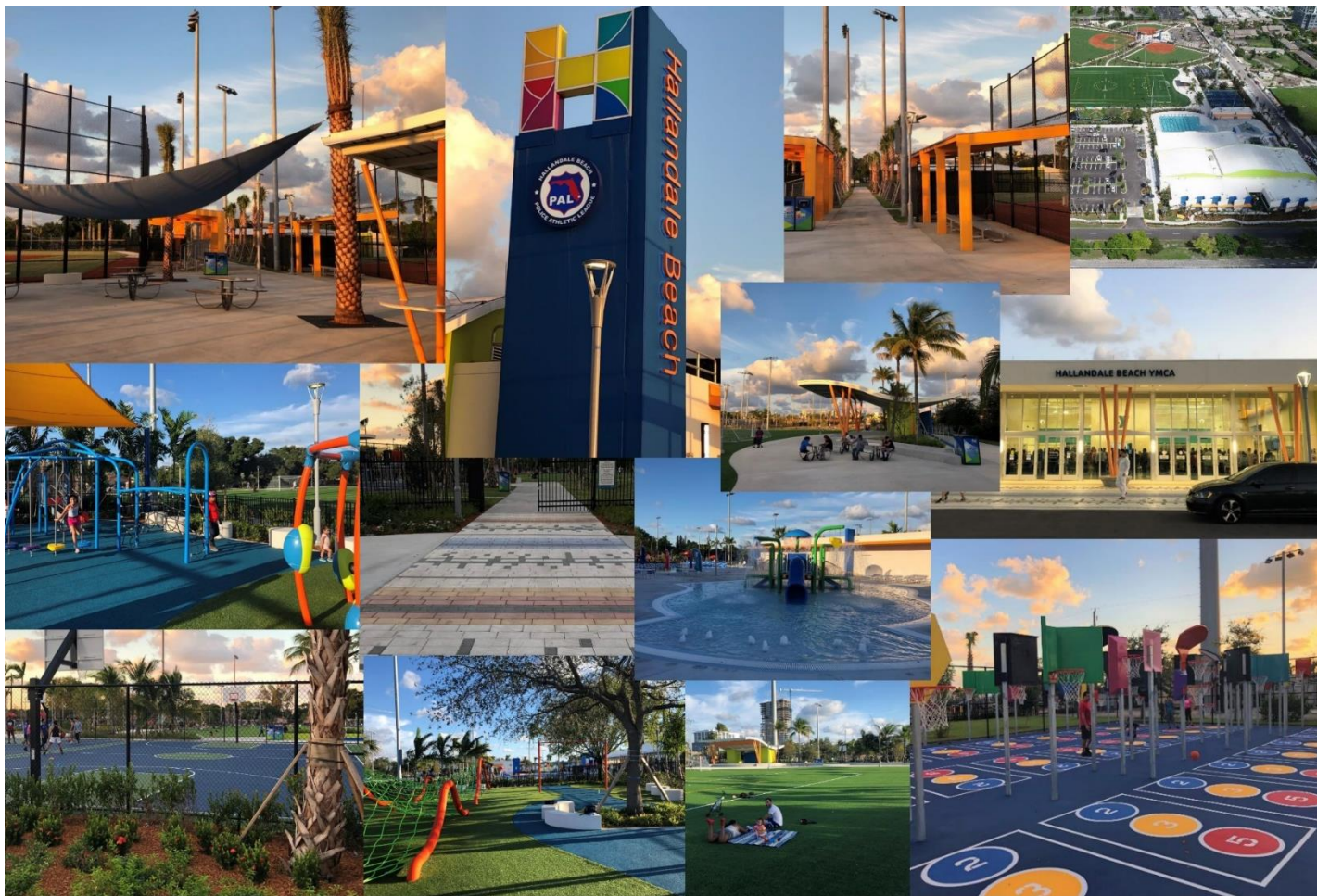
21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
Bluesten Park Hallandale Beach, Florida	PROFESSIONAL SERVICES  2015 - 2017	CONSTRUCTION (If applicable)  2019 - 2020

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER  City of Hallandale Beach	b. POINT OF CONTACT NAME Ms. Cathy Schanz, CPRE Director of Parks and Recreation	c. POINT OF CONTACT TELEPHONE NUMBER Phone: (954)-457-1452 Email: <a href="mailto:cschanz@hallandalebeach.gov">cschanz@hallandalebeach.gov</a>
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

The Park included a 42,000 square foot Recreation Center with / Pool and Splash Play Area, Soccer/Multi-Use Field, three (3) Baseball Fields, three (3) Basketball Courts, two (2) Tennis Courts, two (2) Racquetball Courts, boundless ADA inclusive playground, walking trails and pavilions; and full promenade streetscape design for surrounding streets for pedestrian friendly corridors and parallel parking. **Construction Cost: \$29.4 Million**



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a. (1) FIRM NAME Craven Thompson & Associates, Inc.	(2) FIRM LOCATION <i>(City and State)</i> 3563 NW 53 <sup>rd</sup> Street Fort Lauderdale, Florida 33309	(3) Role Sub-consultant: Landscape Architecture, and Civil Engineering, Construction Services
b. (1) FIRM NAME InfraMap Corp.	(2) FIRM LOCATION <i>(City and State)</i> 1100 N. Florida Mango Rd., Suite D West Palm Beach, Florida 33409	(3) Role Subconsultant: S.U.E. Services
c. (1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role

**F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT**  
(Present as many projects as requested by the agency, or 10 projects, if not specified.  
Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER  
**46**

21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
NW 10 <sup>th</sup> Avenue Roadway Improvements Oakland Park, Florida	PROFESSIONAL SERVICES 2017 - 2020	CONSTRUCTION (if applicable) 2021 - 2024

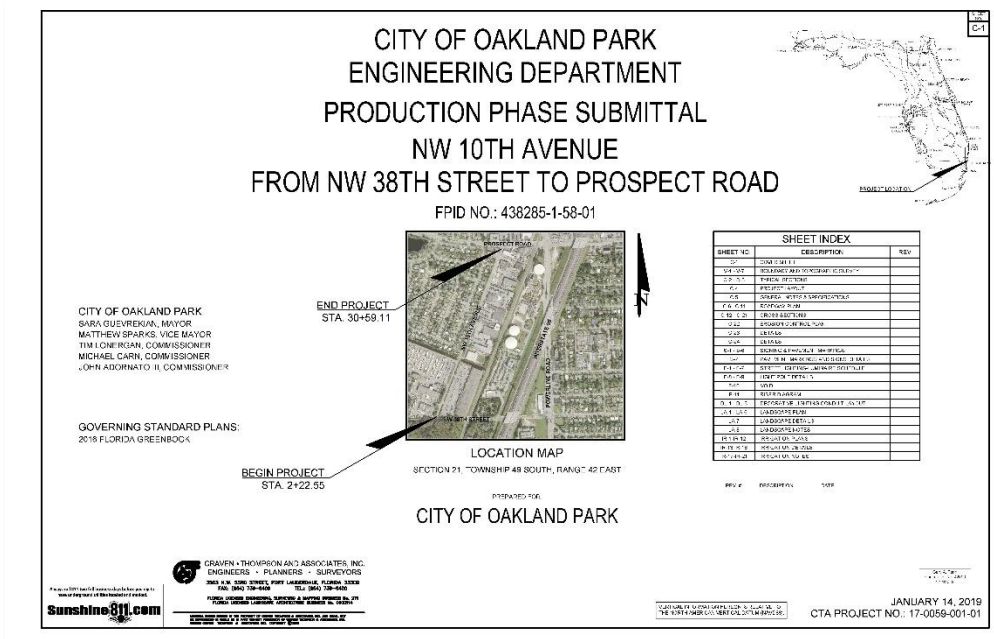
**23. PROJECT OWNER'S INFORMATION**

a. PROJECT OWNER City of Oakland Park	b. POINT OF CONTACT NAME Mr. Chris Lips, P.E. Assistant Public Works Director	c. POINT OF CONTACT TELEPHONE NUMBER Phone: (954) 630-4441 Email: <a href="mailto:ChrisL@oaklandparkfl.gov">ChrisL@oaklandparkfl.gov</a>
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

The scope of work includes design of 2,900 linear feet of roadway, landscaping, irrigation, photo-metrics, coordination, drainage, LAP services, etc. for the NW 10<sup>th</sup> Avenue Roadway Project from Park Lane West (NW 33<sup>rd</sup> Street) to Prospect Road, including preparation of contract documents and permitting. The roadway design with all infrastructure adjustments were based on the Conceptual Design Plans prepared by CTA and approved by the City. Generally, improvements include the addition of bike lanes, curbing, six (6) feet wide sidewalk on the west side of the roadway, landscaping and irrigation system, swale and street lighting improvements.

**Construction Cost: \$947,775.00**



**25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT**

a.	(1) FIRM NAME Craven Thompson & Associates, Inc.	(2) FIRM LOCATION (City and State) 3563 NW 53 <sup>rd</sup> Street Fort Lauderdale, Florida 33309	(3) Role Prime: Surveying, Roadway Design, Permitting, Landscape Architecture
b.	(1) FIRM NAME .	(2) FIRM LOCATION (City and State)	(3) Role
c.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) Role



<b>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b> <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		<b>20. EXAMPLE PROJECT KEY NUMBER</b> <div>47</div>	
<b>21. TITLE AND LOCATION (CITY AND STATE)</b> Nob Hill Soccer Park Survey Sunrise, Florida		<b>22. YEAR COMPLETED</b> <div> <div>PROFESSIONAL SERVICES</div> <div>2016 - 2018</div> </div> <div> <div>CONSTRUCTION (If applicable)</div> <div>2019</div> </div>	
<b>23. PROJECT OWNER'S INFORMATION</b>			
a. PROJECT OWNER City of Sunrise Community Development Department		b. POINT OF CONTACT NAME Mr. Alan Gavazzi Capital Projects Director	
		c. POINT OF CONTACT TELEPHONE NUMBER Phone: (954) 572-2487 Email: <a href="mailto:agavazzi@sunrisefl.gov">agavazzi@sunrisefl.gov</a>	
<b>24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT</b> <i>(Include scope, size, and cost)</i> Craven Thompson & Associates, Inc. was selected by the City to provide surveying, civil design, landscape architecture, permitting, bid assistance and construction services for the Nob Hill Soccer Club in the City of Sunrise.			
<p>A boundary and topographic was be performed on the existing conditions within the for the soccer park site for design purposes. The survey met the minimum technical standards for surveying in Florida, as defined in Chapter 5J-17.050 – 0.52 of the Florida Administrative Code, and be prepared in AutoCAD version 2011 or higher. The survey included all of the above-ground and visible features within the survey limits, including buildings, pavement, utilities, walkways, fences, signs, and utility poles, etc., located both horizontally and vertically and represented on the drawing. Rims, inverts and pipe sizes were measured on all Sanitary and Storm Sewer structures. The survey also included trees greater than 4-inches in diameter (four (4) feet above ground</p>			
<p>Nob Hill Soccer Park is located west of Nob Hill Road and south of Sunset Strip Blvd. The project scope includes the following major elements:</p> <ul style="list-style-type: none"> <li>Removal and replacement of three (3) existing soccer fields</li> <li>Drainage improvements and synthetic turf for Fields 1 and 2</li> <li>Drainage improvements and Bermuda grass for Field 3</li> <li>Addition of new toddler playground at SE corner of existing community bldg.</li> <li>New shade structure, safety surface, fence and access to existing adjacent playground at Nob Hill Elementary School</li> </ul>			
<b>Construction Cost: \$3.7 Million</b>			
<b>25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT</b>			
a.	(1) FIRM NAME Craven Thompson & Associates, Inc.	(2) FIRM LOCATION <i>(City and State)</i> 3563 NW 53 <sup>rd</sup> Street Fort Lauderdale, Florida 33309	(3) Role Prime: Surveying, Landscape Architecture Civil Engineering, Permitting, and Construction Services
b.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role
c.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT (Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)		20. EXAMPLE PROJECT KEY NUMBER <b>48</b>
21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
Master Triplex Lift Station W-14 Upgrade Hollywood, Florida	PROFESSIONAL SERVICES <b>2016</b>	CONSTRUCTION (If applicable) <b>2022</b>

23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER City of Hollywood	b. POINT OF CONTACT NAME Mr. Jeff Jiang, P.E., Assistant Director Public Works / Engineering	c. POINT OF CONTACT TELEPHONE NUMBER Phone: (954) 921-3930 Email: <a href="mailto:jjiang@hollywoodfl.org">jjiang@hollywoodfl.org</a>

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)
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The rehabilitation for sanitary sewer Mater Triplex Lift Station W14 included the modification of the existing station by replacing the existing pumps based on a wastewater system analysis performed by Craven Thompson, replacement of internal piping to the station wall included valves and fittings, rehabilitation of the existing concrete floor, walls, ceiling, vaults, wet well, dry well, exterior vault, access hatch and concrete pillars, replacement of electrical meter and main, replacement of motor control panels and rewire new pumps, new RTU, new SCADA, rewiring and replacement of branch wiring outlets and fixtures, generator with double wall tank with leak detection, etc.

**Construction Cost: \$2,395,072.00**



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) FIRM NAME Craven Thompson & Associates, Inc.	(2) FIRM LOCATION (City and State) 3563 NW 53 <sup>rd</sup> Street Fort Lauderdale, Florida 33309	(3) Role Prime: Surveying, Wastewater Modeling, Lift Station Design, Permitting, and CEI Services
b.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) Role
c.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) Role
d.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) Role
e.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) Role



<b>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b> <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		<b>20. EXAMPLE PROJECT KEY NUMBER</b>  <b>49</b>
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<b>21. TITLE AND LOCATION (CITY AND STATE)</b>	<b>22. YEAR COMPLETED</b>	
SW 188 <sup>h</sup> Avenue Topographic Survey Southwest Ranches, Florida	PROFESSIONAL SERVICES  2018	CONSTRUCTION (If applicable)  Not Applicable

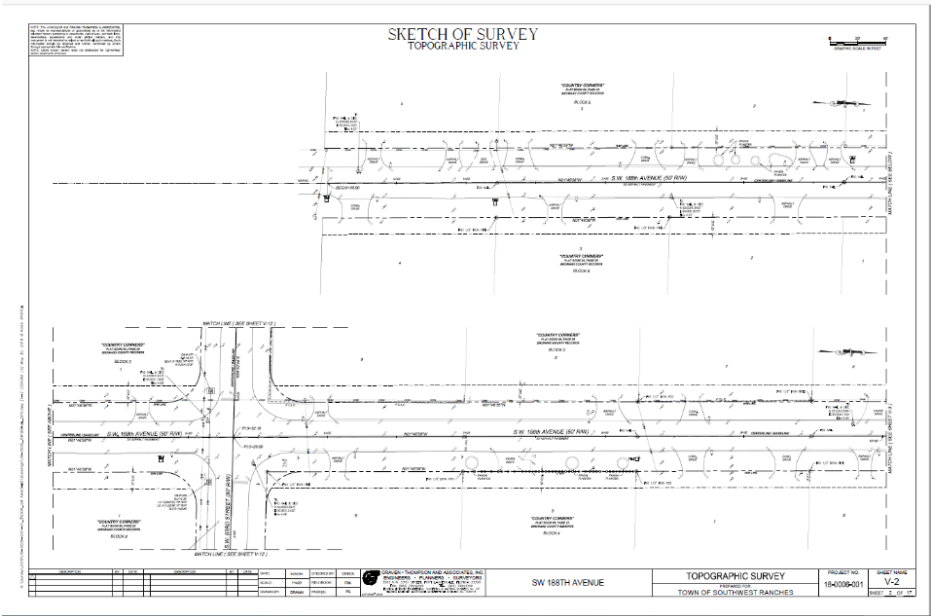
23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Town of Southwest Ranches	Ms. Emily McCord-Aceti Community Services Manager	Phone: (954) 343-7453 Email: <a href="mailto:eaceti@swranches.org">eaceti@swranches.org</a>

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Craven Thompson prepared a topographic survey of portions of the following multiple roadways within the Town of Southwest Ranches. The survey included locations within the full right-of-way of the roads listed below. The total project length, including all adjacent side street sections, covers approximately 14,300 lineal feet.

- SW 188<sup>th</sup> Avenue, from the north edge of pavement of Griffin Road southerly, to the end of the existing asphalt pavement, which covers the existing public right-of-way section only. This section is to include a portion of the existing Griffin Road, pavement only, lying within one hundred (100) feet east and west of the centerline of SW 188<sup>th</sup> Avenue.
- SW 186<sup>th</sup> Way, from SW 61<sup>st</sup> Court southerly, to a cul-de-sac at its southerly end.
- SW 61<sup>st</sup> Court, lying between SW 185<sup>th</sup> Way and SW 186<sup>th</sup> Way. This will include a portion of SW 185<sup>th</sup> Way, fifty (50) feet north and south of the centerline of SW 61<sup>st</sup> Court.
- SW 63<sup>rd</sup> Street, from SW 185<sup>th</sup> Way westerly, to the canal west of SW 188<sup>th</sup> Avenue. This will include a portion of SW 185<sup>th</sup> Way, fifty (50) feet north and south of the centerline of SW 61<sup>st</sup> Court.
- Stirling Road, straddling SW 188<sup>th</sup> Avenue, end to end.
- SW 57<sup>th</sup> Court, straddling SW 188<sup>th</sup> Avenue, from dead-end, east of SW 188<sup>th</sup> Avenue, west to the canal.
- SW 54<sup>th</sup> Place, straddling SW 188<sup>th</sup> Avenue, from dead-end, east of SW 188<sup>th</sup> Avenue, west to the canal.
- SW 51<sup>st</sup> Manor, straddling SW 188<sup>th</sup> Avenue, end to end.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Craven Thompson & Associates, Inc.	(2) FIRM LOCATION <i>(City and State)</i> 3563 NW 53 <sup>rd</sup> Street Fort Lauderdale, Florida 33309	(3) Role Prime: Topographic/Specific Purpose Survey
b.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role
c.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role



F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT  
(Present as many projects as requested by the agency, or 10 projects, if not specified.  
Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER  
50

21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
Septic Tank Elimination (STEP) District 3, Area 3A-R, Dania Beach, Florida	PROFESSIONAL SERVICES 2016	CONSTRUCTION (If applicable) 2018

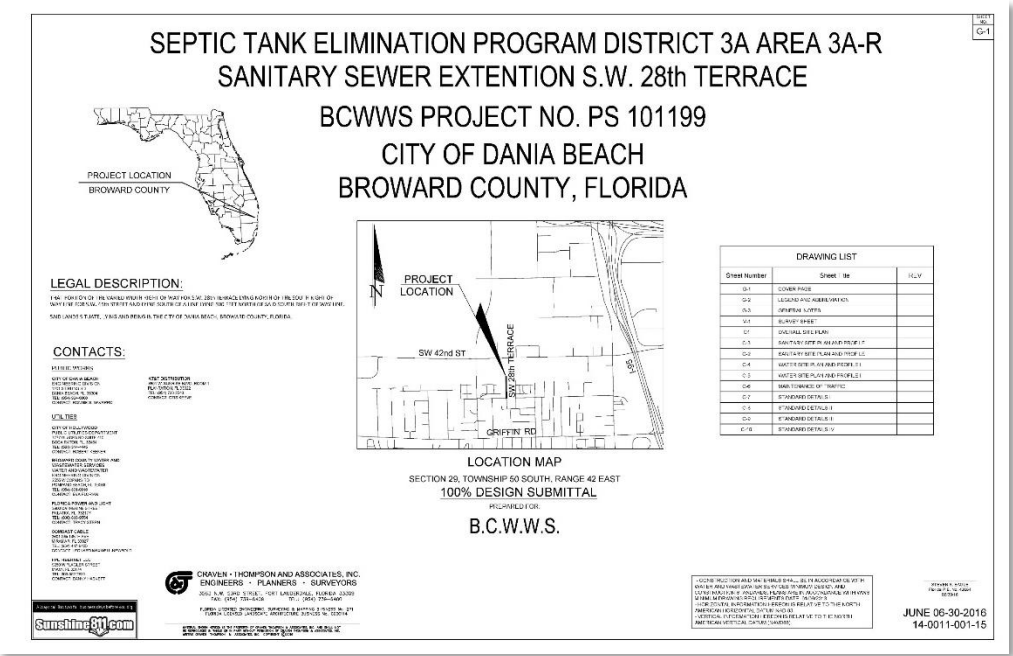
23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER Broward County Water & Wastewater Services	b. POINT OF CONTACT NAME Ms. Alicia Dunne, P.E. Acting Director	c. POINT OF CONTACT TELEPHONE NUMBER Phone: (954) 831-0793 Email: <a href="mailto:adunne@broward.org">adunne@broward.org</a>
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

Craven Thompson and Associates, Inc. provided professional consulting services to the County including surveying, design, regulatory permitting services, cost estimating, and **CEI services** for the project. This project included the installation of approximately four hundred (400') feet of new gravity sewer system and four hundred (400') feet of 6" water main on SW 28<sup>th</sup> Terrace and north of SW 45<sup>th</sup> Street in Dania Beach to provide service to approximately eight (8) properties.

**Construction Cost: \$156,896.00**



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Craven Thompson & Associates, Inc.	(2) FIRM LOCATION (City and State) 3563 NW 53 <sup>rd</sup> Street Fort Lauderdale, Florida 33309	(3) Role Prime: Surveying, Wastewater Modeling, Wastewater Design, Permitting, and CEI Services
b.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) Role
c.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) Role
d.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) Role
e.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) Role



G. KEY PERSONNEL PARTICIPATION IN EXAMPLE PROJECTS

26. NAMES OF KEY PERSONNEL (From Section E, Block 12)		27. ROLE IN THIS CONTRACT (From Section E, Block 13)		28. EXAMPLE PROJECTS LISTED IN (Fill in "Example Projects Key" section below before completing table. Place "X" under project key number for participation in same or similar role.)																																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
Patrick Gibney, PE	Project/Contract Manager		X	X					X		X	X	X	X	X	X		X		X	X	X			X			X	X					X	X				X		X		X				X		X		
Douglas Taylor, PE	Civil Engineer			X		X	X	X			X		X		X	X			X				X	X		X	X				X							X				X									
Chad Edwards, PE	Civil Engineer					X					X											X										X	X				X	X							X		X				
Zach Gamble, PE	Civil Engineer			X		X	X	X			X													X					X						X	X		X		X				X		X					
Luis Pimentel, PE	Civil Engineer												X	X	X				X															X									X	X							
Philip Joseph, PE	Civil Engineer						X	X				X						X				X				X								X	X				X	X						X		X			
Gary Tenn, PE	Civil Engineer		X				X				X										X	X				X						X							X						X			X			
Robert Connors	Civil Engineer		X					X	X													X							X				X		X		X														
Brian Tull	Construction Manager		X	X		X		X	X				X									X					X		X						X																
Jeff LaBelle	Construction Manager								X																										X																
Rasiel Lopez	Construction Inspector			X				X	X			X			X						X								X						X												X				
Marshall Sedio	Construction Inspector			X				X	X			X			X					X							X		X					X	X													X			
Scott Peavler, PLA	Lead Landscape Architect		X		X	X				X							X	X			X			X		X			X	X	X	X	X		X		X	X	X		X		X		X	X	X				
Nicole Pastre, PLA	Landscape Architect									X			X				X				X					X						X			X		X	X	X							X					
Erik Schofield. PLA	Landscape Architect																									X																									
Nathan Raimondo	Landscape Designer																													X																					
Richard Crawford, PSM	Land Surveyor / GIS	X						X								X												X											X												
Raymond Young, PSM	Land Surveyor / GIS		X		X	X	X	X	X		X		X	X		X		X		X		X			X			X			X	X		X	X	X		X	X					X	X	X				X	
David Reyes	Senior GIS / Survey Technician	X		X		X			X						X	X			X									X	X		X		X		X					X							X	X			

NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)	NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)	NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)	NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)
1	Fort Lauderdale Storm Water Master Plan - GIS & Surveying Fort Lauderdale, Florida	14	Plantation Isles Neighborhood Drainage Improvements, Plantation, Florida	27	Fort Lauderdale Sanitary Sewer System GIS & Surveying, Fort Lauderdale, Florida	40	2 <sup>nd</sup> Street Traffic Circle and Sidewalk Improvements Greenacres, Florida
2	Master Pump Station 224 Improvements Lighthouse Point, Florida	15	Potable Water System GIS & Surveying Fort Lauderdale, Florida	28	Pump Station A-13 & Sewer Redirection East of Federal Highway, Fort Lauderdale, Florida	41	Hollywood Blvd. Conceptual Master Rehabilitation Plan, Hollywood, Florida
3	River Oaks Neighborhood Drainage Improvements Fort Lauderdale, Florida	16	City of Plantation Landscape Plan Review Services Plantation, Florida	29	Hallandale Beach Blvd. Boulevard Median Beautification, Hallandale Beach, Florida	42	Miramar Parkway & Miramar Boulevard Median Enhancements, Miramar, Florida
4	Nova Southeastern University Mailman Segal Center Playground, Davie, Florida	17	PS 310 Mag Meter Broward County, Florida	30	Miramar Historic Area Complete Streets Phase II Miramar, Florida	43	Hollywood Seminole Reservation Stormwater Data Collection/GIS, Hollywood, Florida
5	SW 36 <sup>th</sup> Street Improvements Davie, Florida	18	El Dorado Neighborhood Drainage Improvements Plantation, Florida	31	Stunson Nature Trail Oakland Park, Florida	44	Kingfisher Canal Outfall Treatment Structure Project Deerfield Beach, Florida
6	Central Broward Water Control District West Basin Canal Survey, Broward County, Florida	19	NE 14 <sup>th</sup> Avenue Streetscape Improvements Hallandale Beach, Florida	32	Parkland Library Expansion Hollywood, Florida	45	Bluesten Park Hallandale Beach, Florida
7	Broward County Convention Center Expansion Fort Lauderdale, Florida	20	Hollywood HMGP Grant Emergency Generators for Lift Stations E-01, W-14, & W-15, Hollywood, Florida	33	Wastewater Pump Station No. 8 Survey Hallandale Beach, Florida	46	NW 10 <sup>th</sup> Avenue Roadway Improvements Oakland Park, Florida
8	Utility Analysis Zone (UAZ) 122 Lauderdale Lakes, Florida	21	Eastside Master Infrastructure Project – Phases 2 & 3, Davie, Florida	34	Utility Analysis Zone (UAZ) 108 Lauderdale Lakes, Florida	47	Nob Hill Soccer Park Survey Sunrise, Florida
9	City of Coconut Creek Landscape Plan Review Services, Coconut Creek, Florida	22	N-29A Canal Connector Project Davie, Florida	35	Original Section Drainage Improvements – Phases 1-6, Greenacres, Florida	48	Master Triplex Lift Station W-14 Upgrade Hollywood, Florida
10	Central Broward Water Control District – District Engineer, Davie, Florida	23	Dillman Trail Improvements Greenacres, Florida	36	Sunrise Sportsplex Sunrise, Florida	49	SW 188 <sup>h</sup> Avenue Topographic Survey Southwest Ranches, Florida
11	Lift Station W14 As-Built Survey Hollywood, Florida	24	NW 4 <sup>th</sup> Court Sidewalk, Swale Regrading, Drainage & Roadway Imp., Hallandale Beach, Florida	37	Fire Station 13 Fort Lauderdale, Florida	50	Septic Tank Elimination (STEP) District 3, Area 3A-R, Dania Beach, Florida
12	Kimberly Boulevard East Complete Streets Project North Lauderdale, Florida	25	SW 48 <sup>th</sup> Avenue Complete Streets Project West Park, Florida	38	Swain Boulevard Complete Street Project Greenacres, Florida		
13	G.T. Lohmeyer WWTP Stormwater Improvements Survey Fort Lauderdale, Florida	26	Lake Worth 2” Watermain Rehabilitation – Ph. 4, Lake Worth Beach, Florida	39	Driftwood Septic to Sewer Conversion & Watermain Replacement – Phase 1, Hollywood, Florida		

## SECTION H. ADDITIONAL INFORMATION

30. PROVIDE ANY ADDITIONAL INFORMATION REQUESTED BY THE AGENCY. ATTACH ADDITIONAL SHEETS AS NEEDED.

**Firm's Number of Years of Experience:** For over sixty-three years Craven Thompson & Associates, Inc. has provided consulting services to governmental agencies throughout South Florida. We have provided some or all of the following services to numerous clients including: surveying, stormwater & drainage improvements, stormwater master plans, roadways, complete streets/streetscapes, neighborhood improvements, water and sanitary sewer, landscape architecture, urban design, planning, park design, G.I.S., and CEI services. Craven Thompson was founded as a corporation in the State of Florida in 1962 (in business for 63 years) and has a large group of professional engineers, graduate engineers, surveyors, G.I.S. specialists, landscape architects and planners. Craven Thompson has been providing civil engineering, surveying and CEI services for the past sixty-three (63) years, landscape architectural services for the past forty-six (46) years, and G.I.S. services for the past nineteen (19) years.

**Business Structure / Legal Entity in the State of Florida:** State of Florida Corporation

**Project Manager / Principal-in-Charge**

Patrick J. Gibney, P.E., Vice President, Engineering

Craven, Thompson & Associates, Inc.

3563 NW 53<sup>rd</sup> Street, Fort Lauderdale, Florida 33309

Phone: (954) 739-6300 / Email: [pgibney@craventhompson.com](mailto:pgibney@craventhompson.com)

Website: [www.CravenThompson.com](http://www.CravenThompson.com)

**Proximity to the City of Cooper City:** Craven Thompson's office is 15.4 miles from the Cooper City's City Hall.

**Number of Employees:** Craven Thompson has sixty-seven employees consisting of three Landscape Architects, two Landscape Designers, two Planners, twenty-four Civil Engineers, nineteen Surveyors & GIS Specialists (includes field crews), two Construction Managers, six Construction Inspectors; and nine Administrative Personnel.

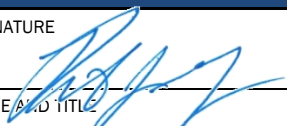
**History of Firm:** Craven Thompson & Associates, Inc. has been an industry leader in the South Florida area since our inception in 1962. With our office located in South Florida, we have established a high-profile presence through the years with a reputation of excellent service to many varied clients, performing the full range of professional services. We have worked closely with many governmental agencies to provide services such as roadway design, landscape architecture, neighborhood improvements, water and wastewater design, GIS/Mapping, surveying, planning, storm water management, streetscape, roadway beautification and construction management. Craven Thompson has been providing professional services to the Tri-County area since the formation of the firm. Craven Thompson has been involved in the design, permitting, surveying, contract administration and construction management of numerous infrastructure rehabilitation projects, redevelopment projects and Capital Improvement Projects, including roadway design, the replacement and upgrade of water and sewer lines, new infrastructure, sewage pump stations, storm water drainage projects, and waterway projects. Our experience includes the design and construction of parks, roadways with streetscape, roadway beautification, complete streets, traffic calming, all levels of stormwater management and drainage and municipal facilities. All of these projects included surveying, studies, modeling, cost estimating, design drawings, technical specifications and construction management for the replacement/rehabilitation of existing roadways and infrastructure and the construction of new drainage facilities, pavement and landscaping.

Craven Thompson presents many distinct and unique advantages which will assure timely and cost-effective completion of projects. These advantages include the following:

- An experienced team: Craven Thompson staff has extensive experience with various types of unusual and difficult projects.
- Full-service firm: Craven Thompson can provide all of the civil engineering, surveying landscape architecture, planning, GIS and construction support services needed in-house.
- Project management: Organization lines and responsibilities are clearly defined for each project, ensuring that the best qualified individual is matched to a particular assignment.
- Familiarity with South Florida agencies and engineering practices.
- Continuity: The Resources and staff available at Craven Thompson ensure responsive service and continuity throughout all phases of projects.

I. AUTHORIZED REPRESENTATIVE  
The foregoing is a statement of facts

31. SIGNATURE



32. DATE

January 21, 2025

33. NAME AND TITLE

Patrick J. Gibney, P.E., Vice President, Engineering.



**1. SOLICITATION NUMBER (If any)**  
**RFQ #2024-1-PW**

*(If a firm has branch offices, complete for each specific branch office seeking work.)*

## TEAM MEMBERS PER DISCIPLINE

The following is a list of the Craven Thompson team members per discipline. We are submitting to be selected for the following categories:

### ❖ *Civil Engineering*

- Patrick Gibney, P.E.
- Douglas Taylor, P.E.
- Gary Tenn, P.E.
- Chad Edwards, P.E.
- Luis Pimentel, P.E.
- Zach Gamble, P.E.

### ❖ *Landscape Architecture*

- Scott Peavler, P.L.A.
- Nicole Pastre, P.L.A.
- Erick Schofield, P.L.A.
- Nathan Raimondo

### ❖ *Water/Wastewater/Storm-Water*

- Patrick Gibney, P.E.
- Robert Connors, P.E.
- Gary Tenn, P.E.
- Philip Joseph, P.E.
- Luis Pimentel, P.E.
- Douglas Taylor, P.E.

### ❖ *Other Services*

#### ✧ **Land Surveying & Mapping**

- Richard Crawford, P.S.M.
- Raymond Young, P.S.M.
- David Reyes

#### ✧ **GIS for Engineering, Utilities, and Development Services**

- Richard Crawford, P.S.M.
- Raymond Young, P.S.M.
- David Reyes

#### ✧ **Construction Engineering Inspection Services - Non-FDOT Certified**

- Brian Tull
- Jeff LaBelle
- Mashall Shedio
- Rasiel Lopez

#### ✧ **Engineering Plan Review**

- Gary Tenn, P.E.

#### ✧ **Project Management**

- Patrick Gibney, P.E.
- Scott Peavler, P.L.A.

#### ✧ **Owner's Representative**

- Mashall Shedio
- Rasiel Lopez

#### ✧ **Cost Estimating**

- Luis Pimentel, P.E.
- Nicole Pastre, P.L.A.



## Patrick J. Gibney, P.E.

Project Manager

Mr. Gibney has over thirty-seven years of experience providing project management, design and construction management services for public civil engineering projects. These projects include infrastructure improvements for a multitude of infrastructure rehabilitation projects. This includes design and CEI services for water distribution systems, sanitary sewer collection & transmission systems, lift Stations, pavement design, storm water management systems, drainage systems, & contract documents.

### Relevant Experience:

**Sidewalk, Swale, Drainage & Roadway Improvements CDBG Improvements** | Hallandale Beach, Florida | The project included ADA connections, details and cross-sections for the project area. The sidewalk was installed to complete the existing neighborhood sidewalk network. Swales were constructed adjacent to the new sidewalks and exfiltration trench was installed to eliminate nuisance flooding. Upgraded ADA pedestrian ramps and driveways, sidewalks, and re-graded swales.

**West Palm Beach Water & Sewer Service Conversions Back of Lot to Front of Lot** | West Palm Beach | Project Manager - The City of West Palm Beach has contracted with Craven Thompson to provide professional services to provide consulting to the City for the conversion of sanitary and water services from rear property lines to front property lines. This will include reviewing design plans of a specific address/location available to date for constructability, checking design calcs, etc. including site visits as required.

### Professional Registrations

- State of Florida  
Professional Civil  
Engineer No. 49428  
(1995)

### Education + Training

- Bachelor of Science, Civil Engineering, Rutgers, The State University (1987)
- FDOT Pre-Qualified Roadway Construction Engineering Inspection

### Years of Experience

- Total: 37; With Firm: 31

**River Oaks Neighborhood Drainage Improvements** | Fort Lauderdale, Florida | Project Manager  
Improvements included: 12,677 linear feet of swale re-grading, 5,346 linear feet of storm pipe removal, removal of 251 storm structures, the installation of 90 linear feet of 15" storm sewer, 4,374 linear feet of 18" storm sewer, 4,675 linear feet of 24" storm sewer, 1,771 linear feet of 36" storm sewer, 145 linear feet of 48" storm sewer, 3,129 linear feet of 66" storm sewer, 1,056 linear feet of 72" storm sewer, 2,640 linear feet of 24" exfiltration trench, 236 drainage structures, two STORMCEPTER water quality structures, one TIDEFLEX backflow prevention valve, and 4,219 linear feet of sidewalk. The project also included one small duplex stormwater pump station, and one large stormwater pump station.

**Septic Tank Elimination Program District 2, Area 2-G Project** | Pompano Beach, Florida | Project Manager  
Designed approximately 3,000' feet of 8" gravity sewer main, 11 maintenance access structures, 1 retail lift station and 1,750' feet of 6" force main in NW 16<sup>th</sup> Lane, NW 17<sup>th</sup> Lane, Park Central Boulevard South, and Copans Road in Pompano Beach. Roadway restoration, test hole locations, geotechnical investigation was also included in the project.

**Golden Shores Utility Undergrounding Project** | Sunny Isles Beach, Florida | Project Director

This project brings repaved roads in the entire Golden Shores neighborhood, enhanced beautification and landscape in the community, new and improved decorative street lighting (the same as all new lights on Collins and other City roads), and an improved sidewalk that extends the length of Atlantic Blvd., from 185<sup>th</sup> Street to 191<sup>st</sup> Street on the east side connecting to Collins Avenue at select street locations, which will aid pedestrian traffic. In addition, the project also helps reduce the number of power and utility outages, and increases safety by eliminating downed live distribution electrical wires during and after a storm or hurricane. The installation of new equipment is more resistant to the impacts of weather and will provide for quicker restoration should power and utility outages occur.

**Orange Drive Corridor Improvements | Davie, Florida | Project Director**

The project adds a third lane for approximately 4,100 linear feet on the north side of the existing Orange Drive east of SW 61<sup>st</sup> Avenue to the Turnpike off ramp and include milling and overlay of the existing roadway from SW 61<sup>st</sup> Avenue to SW 64<sup>th</sup> Avenue. The typical section will be rural with swales on both sides and drainage added to attenuate runoff. The project also includes modifications/upgrades to the existing drainage, pavement marking, lighting upgrades and relocations, landscaping, irrigation, widening of multi-use path along SFWMD C-13 Canal and all miscellaneous improvements. This is a Broward County Surtax Project.

**Eastside Master Infrastructure Project, Phases 2 & 3 | Davie Florida | Project Manager**

Mr. Gibney managed the design and permitting of the project which consisted of 340 acres of infrastructure rehabilitation. The basic infrastructure work consisted of watermain, sanitary sewer, and storm sewer. The drainage/roadway work consisted of: 22,763 LF of roadway reconstruction; 41,000 SY of swale regrading; 18,940 linear feet of storm sewer; 12,450 SY of sidewalk; 7,400 SY of driveway restoration; 146 storm structures; 3 outfalls; 1 control structure. The water distribution included: 14,800 LF of 6" main; 5,075 LF of 8" main; and 5,140 LF of 12" main; abandon and grout 11,450 LF of existing watermain in place; 50 fire hydrants; 154 gate valves; 40,400 LF of water service piping on private property. The sanitary improvements included: 11,455 LF of 8" pipe; 40 sanitary manholes; and 2,945 LF of 16" forcemain.

**Master Lift Station W-14 Upgrade | Hollywood, Florida | Project Manager**

The rehabilitation for sanitary sewer Lift Station W14 included the modification of the existing stations by replacing the existing pumps based on a wastewater system analysis performed by Craven Thompson, replacement of internal piping to the station wall including valves and fittings, rehabilitation of the existing concrete floor, walls, ceiling, vaults, wet well, dry well, exterior vault, access hatch & concrete pillars, replace electrical meter and main, replace motor control panels and rewire new pumps, new RTU, new SCADA, rewire & replace branch wiring outlets and fixtures, generator with double wall tank with leak detection.

**NW 10<sup>th</sup> Avenue Roadway Improvement Project | Oakland Park, Florida | Project Manager**

The scope of work included design of 2,900 linear feet of roadway LAP funded which included landscaping, irrigation, photo-metrics, coordination, drainage, etc. for the project from Park Lane West (NW 33<sup>rd</sup> Street) to Prospect Road, included preparation of contract documents and permitting. Generally, improvements included the addition of bike lanes, curbing, six-foot-wide sidewalk on the west side of the roadway, landscaping and irrigation system, swale & street lighting improvements.

**Utility Analysis Zone Improvement Program (UAZ) 123 | Broward County, Florida | Project Director**

Utility Analysis Zone (UAZ) 123, two hundred forty (240) acre area in the City of Lauderdale Lakes, Florida. The project included sanitary sewer consisting of: 28,750 LF of 8" gravity main, 1,735 LF of 10" gravity main, 45 linear feet of 18" main, 180 linear feet of 6" force main, 1,920 linear feet of 8" force main, 585 linear feet of 12" force main, 1,680 LF 16" force main, 1,230 LF 18" force main, and 800 LF of 20" force main. The water distribution system improvements included: 17,330 LF of 6" main, 9,555 LF of 8" main, 1,830 LF of 10" main, 1,740 LF of 12" main, 4,930 LF of 16" main, and 1,380 LF of 20" main.

**Pump Station A-13 & Sewer Redirection East of Federal Highway | Fort Lauderdale, Florida | Project Manager - Engineer of Record**

This project is for the construction of Lift Station A-13, located at the southeast corner of Southeast 2<sup>nd</sup> Court and Southeast 8<sup>th</sup> Avenue. The project scope included the construction of an 18-inch diameter gravity sanitary sewer system and the connection to an existing active sanitary sewer manhole located at the intersection of Federal Highway and Blvd. to the new lift station.

**Watermain Replacement Program City Project No. 15-5129 | Hollywood, Florida | Project Manager**

Mr. Gibney managed all facets of the project. The project involves the replacement of approximately 87,400 linear feet of existing water service mains, 2" and 4", with new 4" - 6" water service main and water services and replacement of existing 6" - 12" distribution water mains with new 6" - 12" water distribution water mains including replacement and addition of fire hydrants.



## Douglas R. Taylor, P.E.

Civil Engineer

Mr. Taylor has been responsible for a multitude of municipal engineering /roadway projects throughout Florida. This includes project management, master design responsibility and oversight for a variety of projects. The projects involve roadway, water, sewer, and drainage projects.

### Relevant Experience:

#### Professional Registrations

- State of Florida  
Professional Civil Engineer  
No. 50569 (1996)
- TS EM5 Intermediate ICS  
(G300) Certificate

#### Education + Training

- Bachelor of Science,  
Civil Engineering,  
University of Illinois  
(1984)

#### Years of Experience

- Total: 40; With Firm: 13

**Kimberly Boulevard Complete Streets Project** | North Lauderdale, Florida | Project Manager for the design and permitting of 1.2 miles of roadway, bicycle lane, median enhancements, a roundabout, landscaping, hardscape and lane reduction for an existing four-lane roadway subject to speeding and traffic accidents between autos, pedestrians, and bicyclists, Craven Thompson provided survey, civil engineering, landscape architecture and construction engineering and inspection. This is a Broward County Surtax Project.

**SW 36th Street Improvements** | Davie, Florida | Senior Engineer

The 3,300-foot length of SW 36<sup>th</sup> Street was designed as a two (2) lane divided boulevard from College Avenue to SW 76<sup>th</sup> Avenue within a 75-foot public right-of-way width. In connection with this improvement, portions of SW 36<sup>th</sup> Street, owned by Nova Southeastern University, was dedicated to the Town of Davie.

**Miramar Historical Area Complete Streets Project. Phase II** | Miramar, Florida | Senior Engineer

Craven Thompson was selected to survey, design, permit, and provide construction services for Phase II of their Historical Area Complete Streets Project. The project is bounded by Pembroke Road to the north, County Line Road to the south, SW 62<sup>nd</sup> Avenue to the west, and State Road 7 to the east. The project includes six (6) streets in the Historical Area. The improvements included: sidewalks, ADA ramps, crosswalks, pedestrian level lighting, landscaping, and hardscape.

**SW 48<sup>th</sup> Avenue Complete Streets Project** | West Park, Florida - Mr. Taylor assisted with the design and permitting of the complete streets project. The project involves approximately 7,600 linear feet of right-of-way (not including Mary Saunders Park). Improvements that may be included are as follows: paving (milling & resurfacing and reconstruction), complete street elements, such as textured pavement, raised crosswalks, raised intersections, and speed lumps, ADA compliant sidewalks, bicycle lanes, street trees, landscaping, limited irrigation, signage, drainage and pavement marking & signage. This is a Broward County Surtax Project.

**City of Miami Gardens Livable Neighborhood Improvement Project - Vista Verde Phases 1A & 1B** | Miami Gardens, Florida | Senior Engineer. The Vista Verde Phase 1A & 1B Improvements are located within the City of Miami Gardens bordered by NW 213<sup>th</sup> Street to the north, NW 207<sup>th</sup> Lane to the south, NW 37<sup>th</sup> Avenue (Douglas Road) to the east, and a vacant plot of land to the west. The project included 1,900 LF of roadway and 1,900 LF of storm sewer and full right-of-way restoration.

**Eastern C-11 Stormwater Facilities Report Update and Basin Study - CBWCD** | Davie, Florida | Senior Engineer - In this role he is managing the East Basin Facilities Plan update for the CBWCD. This includes secondary canal and culvert surveys, analyzing existing and future land use changes, developing a new hydrology and hydraulics model, and the development of an updated capital improvement plan for the basin.

**N-29A Canal Connector Project** | Davie, Florida | Senior Engineer

The project includes the construction of 1,407 linear feet of 72" diameter culvert equalizer, connecting the Central Broward Water Control District's (CBWCD) N-29A Canal to the N-22 Canal. The project also includes demolition, culvert & headwall construction, and the restoration of stabilized pathway, sidewalk and asphalt roadway, along with other minor improvements associated with the proposed project.

**N-29A Canal Connector Project** | Davie, Florida | Senior Engineer

The project includes the construction of 1,407 linear feet of 72" diameter culvert equalizer, connecting the Central Broward Water Control District's (CBWCD) N-29A Canal to the N-22 Canal. The project also includes demolition, culvert & headwall construction, and the restoration of stabilized pathway, sidewalk and asphalt roadway, along with other minor improvements associated with the proposed project

**Swain Boulevard Complete Streets Project** | Greenacres | Florida

Mr. Taylor is assisted with the design and permitting of the Swain Boulevard Complete Streets Project which is a 4,500 linear foot project running from Lake Worth Road to 10<sup>th</sup> Avenue North. The project included bicycle lanes of both sides of the street, sidewalks, parallel parking, landscape, hardscape and drainage. It also includes traffic circles at 1<sup>st</sup> Street, and 4<sup>th</sup> Street.

**2<sup>nd</sup> Street Traffic Circle and Sidewalk Improvements** | Greenacres, Florida | Senior Engineer

Craven Thompson designed and permitted a traffic circle at 2<sup>nd</sup> Street and Swain Boulevard in Greenacres. This included landscape, hardscape and a clock feature within the circle. Curb & gutter, sidewalk and drainage were included along with other utility adjustments and relocations. The project also included: 18,300 feet (3.14 miles) of proposed sidewalk, and ADA improvements as well as drainage design for drainage in conflict with proposed sidewalk.

**Traffic Calming at the Intersections of 123<sup>rd</sup> Street & NW 1<sup>st</sup> Court, 123<sup>rd</sup> Street & Miami Court, NW 139<sup>th</sup> Terrace & NW 5<sup>th</sup> Court** | North Miami, Florida | Lead Engineer - The project involved the development of designs for traffic calming features along NW 123<sup>th</sup> Street and NW 1<sup>st</sup> Court, NW 123<sup>rd</sup> Street and NW Miami Court, and 139<sup>th</sup> Street and NW 5<sup>th</sup> Court in the City of North Miami. These intersections had large expanses of pavement without traffic control and therefore required the implementation of traffic calming features. Craven Thompson design elevated intersections, removed pavement and introduced curbing to reduce speeds.

**Miami Springs City-Wide ADA Ramps** | Miami Springs, Florida

Mr. Taylor assisted with the design and permitting of new and replacement ADA ramps throughout the City of Miami Springs. The project was funded through the legislative appropriation process. The project included field evaluation of intersections throughout the city to determine the location of non-conforming or missing ADA ramps. Craven Thompson developed a set of construction plans for installation of the ramps per FDOT standards.

**Historic Miramar Areawide Drainage Improvements Project - Phase IV** | Miramar, Florida | Project Manager. Approximately 298 acres in area, and is located in the general area bounded by SW 64<sup>th</sup> Avenue to the east, County Line Road to the south, Florida Turnpike to the west and Miramar Parkway to the north. Craven Thompson prepared an *ICPR computer model* to analyze the stormwater for the area. Many of these grass swales had been filled in by residents to create landscape areas thus reducing storage and the effectiveness of percolation. Inlets and outfalls were limited in this area of the project. The improvements constructed to alleviate the flooding included: 85,942 linear feet of re-graded swales, 205 new drainage structures, 17,598 linear feet of valley gutter, 3,000 linear feet of 15" diameter RCP storm sewer, 19,141 linear feet of 24" diameter exfiltration trench, pavement milling and overlay, 8 outfall replacement/rehabilitations, driveway removal and replacement, pavement marking & signage, and various other right-of-way restoration improvements.

**Seminole Hollywood Reservation Stormwater Master Plan** | STOF Hollywood Reservation, Florida | Project Manager - Craven Thompson developed a stormwater master plan inclusive of data collection, basin delineation, stormwater modeling and analysis, alternative development and evaluation, and a prioritized capital improvement plan (CIP) that considered existing and future land uses as well as future environmental conditions, including the impacts of sea-level rise and global warming.



## Chad E. Edwards, P.E.

Civil Engineer

Mr. Edwards has been the Project Manager on many public projects over the last 26 years. He is highly experienced in the aspect of civil engineering.

### Relevant Experience:

#### Veterans Park | Sunrise, Florida | Civil Engineer

Mr. Edwards is the lead for civil engineering design & permitting services for Veteran's Park. Circulating the park are companion monuments, one for each branch of the U.S. Military branches. In addition, there is an iconic 14,000 square foot playground & plans to expand the park with an obstacle course similar to those used in military training.

#### Broward County Courthouse | Fort Lauderdale, Florida | Civil Engineer

Civil project manager designed and permitted the civil engineering for the construction of the new courthouse and parking garage. The project was permitted through the Broward County EPD, the City of Fort Lauderdale, Broward County Traffic Engineering Division, and the Broward County Public Health Unit.

#### Pioneer Park | Deerfield Beach, Florida | Civil Engineer

Designed drainage, water, and sewer for the various improvements within the 13.5-acre park owned and maintained by the City of Deerfield Beach including a new multi-purpose baseball field, small water play area, and children's playground. Future improvements will include community center, additional ball fields, tennis courts & a new boat ramp.

### Professional Registrations

- State of Florida  
Professional Civil Engineer  
No. 59306 (2003)

### Education + Training

- Bachelor of Science,  
Civil Engineering,  
Clarkson University,  
Potsdam, New York  
(1997)

### Years of Experience

- Total: 26; With Firm: 24

#### United States Federal Courthouse (Design/Build) | Fort Lauderdale, Florida | Civil Project Manager

New 10-Story, 252,000 square foot United States Courthouse will be built on a 3.5-acre site located on the northeast corner of SE 3<sup>rd</sup> Avenue and SE 11<sup>th</sup> Street. This courthouse will replace the existing federal courthouse erected in 1979. The new courthouse will serve as home to the U.S. District Court for the Southern District of Florida. The new courthouse will include 12 courtrooms and 17 judges' chambers, along with workspace for various government agencies, including the U.S. Court of Appeals, the US Bankruptcy Court, the US Marshals Service, the US Attorney's Office, and the US Probation Office. Craven Thompson & Associates is providing Surveying, Land Planning, Civil Engineering, and Landscape Architectural Services for the development of a federal courthouse

#### Golden Isles Tennis Center and Park | Hallandale Beach, Florida | Civil Project Manager

Craven Thompson provided professional Landscape Architectural & Civil Engineering Services for the Silver-LEED certified Golden Isles Tennis Center and Park located south of Egret Drive and SE 14<sup>th</sup> Avenue, and west of Poinsettia Drive and Layne Boulevard within the City of Hallandale Beach. The improvements consisted of ten (10) tennis courts, two (2) basketball courts, two (2) bocce ball lanes, a fitness area, a restroom building, a playground, a dog park, a pavilion, open lawn, a retention area, a material storage area, a monument sign, and a parking lot.

#### Parkland Library Expansion | Parkland, Florida | Civil Project Manager

The size of the expansion was 6,900 square feet, a separate space for children and families, a multi-purpose program area, and fit within the existing footprint owned by the city. Craven Thompson provided professional Surveying, Landscape Architecture and Civil Engineering Services for the above referenced project.

#### DEA South Florida Laboratory | Miami-Dade County, Florida | Civil Project Manager

Civil project manager designing and permitting the civil engineering for the DEA Facility, a 57,000 S.F. build to suit DEA Laboratory for the GSA on a GSA preselected site encompassing 9.14 acres.

**Nova Southeastern University - Drainage Zone 2** | Sunrise, Florida | Civil Engineer

The Zone 2 drainage basin comprises of 73.50 acres and is divided into 10 major sub-basins. For analysis purposes (using ICPR), the Zone 2 drainage basin is further subdivided into twenty-eight (28) minor drainage basins (twenty-six (26) from the previous analysis and the 2 new basins). Craven Thompson generated the new analysis to accommodate the following:

- Eliminating underground/retention storage previously proposed under the proposed University School baseball fields, tennis courts and parking lot.
- Adding a lake on the Campus Commons Plat property (4.81 acres located at the SW corner of Nova Road and SW 72<sup>nd</sup> Avenue).
- Adding development on the FAA parcel (1.89 acres located at the NW corner of SW 39<sup>th</sup> Street and SW 73<sup>rd</sup> Avenue).
- Adding 1.53 acres of building on the existing parking lot west of the Dolphins' indoor training facility.
- Adding 1.20 acres of building on the existing baseball field west of the Dolphins' indoor training facility

**Sportsplex** | Sunrise, Florida | Lead Civil Engineer

Mr. Edwards was the lead for civil engineering design & permitting services for Sunrise Sportsplex. In general, the project included: Four baseball fields, two Soccer fields or one Multi-Use Soccer / Football Field, Dugouts, Bleachers, concession, restroom, meeting space/scorer's building, restroom / maintenance building for the Soccer Fields, Two playgrounds, sports lighting, batting cages, parking lots with entry signage, Southbound Right turn lane on Pine Island Road, and Pedestrian connections to West Pine Middle School

**Nob Hill Soccer Park** | Sunrise, Florida | Lead Civil Engineer

The project scope included the following major elements: Removal and replacement of three existing soccer fields, drainage improvements and synthetic turf for Fields 1 and 2, drainage improvements for Field 3, the addition of new toddler playground at SE corner of existing community building, a new shade structure, safety surface, fence and access to existing adjacent playground at Nob Hill Elementary School, the refurbishment of the existing aluminum & concrete perimeter fence, and ADA compliance improvements for the overall site

**Pine Trails Park, Phases I - III** | Parkland, Florida | Civil Engineer

Craven Thompson was the civil engineer for the 80-acre multi-phase Pine Trails Park located in the City of Parkland. Phase I consisted of 40 acres of development and included extensive earthwork, construction of a 5-acre lake along with soccer fields, basketball courts, walkways, lighting and an amenities building and associated parking.

**Fire Station 13** | Fort Lauderdale, Florida | Senior Engineer

Craven Thompson provided Civil Engineering, Planning, and Landscape Architecture Services for the new Fire Station No. 13 in the City of Fort Lauderdale located at 2871 East Sunrise Boulevard. The new fire station replaces the existing fire station on the same site. The proposed station will be approximately 10,000-12,000 square feet with three bays housing twelve fire fighters.

**Broward Health** | Coral Springs, Florida | Senior Engineer

Assess ADA deficiencies at existing medical facility at the request of the client by reviewing topographic survey data and taking field measurements and observations. Based upon ADA assessment prepare plans to modify site features to eliminate ADA deficiencies. Provided construction observation services

**Nova Southeastern HDP Dental Dropoff** | Davie, Florida | Project Manager/Civil Engineer

The project includes the design of a new drop-off area along the eastside of the dental building, filling in the existing canal, relocating the sidewalk from the dental building to SW 30<sup>th</sup> Street to the eastside of canal, and reconfiguring the northside of the dental building.



## Gary Tenn, P.E.

Civil Engineer

Mr. Tenn has been responsible for civil engineering design and project management of numerous public sector infrastructure projects throughout South Florida. His engineering experience and oversight of public sector projects including various disciplines such as: roadway, drainage and water & sewer aspects of the projects. Mr. Tenn has 43 years of experience in civil engineering and is a registered Professional Engineer in Florida.

### Professional Registrations

- Professional Engineer  
Florida No. 50588 (1996)

### Education + Training

- Bachelor of Science, Civil Engineering, University of Windsor, Ontario, Canada (1979)

### Years of Experience

- Total: 43; With Firm: 10

### Affiliations

- American Society of Civil Engineers, Member (ASCE)
- Florida Engineering Society, Member (FES)
- Florida Engineering Society- Class 1 FES/FICE Leadership Institute

### Relevant Experience

**Central Broward Water Control District (CBWCD), District Engineer** | Davie, Florida - Craven Thompson reviews and recommends approval of all drainage projects within the CBWCD; reviews variance requests; serves on the Development Review Committee; attends Board meetings; and prepares construction plans for capital improvement projects. Services to the District includes plan and Constructability Review; engineering studies and reports; plan reviews, surveying; design & permitting for capital improvement projects; construction services; inspection services; and meeting attendance.

**Septic Tank Elimination Program District 2, Area 2-K Project** | Pompano Beach, Florida | Project Manager - Installation of approximately 225' feet of new gravity sewer in N. Federal Highway in Pompano Beach. Laterals will serve 4521 & 4531 N. Federal Highway, located on the west side of the Roadway.

### Master Pump Station 224 | Lighthouse Point, Florida | Civil Engineer

Rehabilitated existing Master Pump Station 224 including wet well rehabilitation, by-pass system, replacement of piping, pumps, panels, electrical services, valves, water proof vaults, hatches, SCADA instrumentation within the parcel of MPS 224.

### Wastewater Pump Station No. 8 Replacement | Hallandale Beach, Florida | Project Manager

Mr. Tenn managed the design and permitting of Wastewater Pumping No. 8. The station is located at the northeast corner of SE 5<sup>th</sup> Street and Old Federal Highway. The project included the demolition of and temporary bypass pumping for existing Wastewater Pump Station No. 8. The new submersible tri-plex lift station has three (3) 60HP Myers 6VC600M4-43 pumps in a ten (10) foot-diameter wet well. The station pumps 1140 GPM @ 117'TDH.

### Septic Tank Elimination Program District 3, Area 3A-R | Dania Beach, Florida | Project Manager

Installation of approximately four hundred (400') feet of new gravity sewer system and four hundred (400') feet of 6" water main on SW 28<sup>th</sup> Terrace and north of SW 45<sup>th</sup> Street in Dania Beach to provide service to approximately eight (8) properties.

### Surface Water Management Permit Application Review | All STOF Reservations | Project Manager

Mr. Tenn has reviewed surface water management applications on behalf of the STOF at all Seminole reservations since 2014.

### District 2 - Sample Road 12" Water Main Aerial Crossing | Lighthouse Point, Florida | Project Manager

Craven Thompson provided professional consulting services to County for design and regulatory permitting services for the Project. Mr. Tenn was responsible for the permitting and design of a new aerial water main canal crossing of the Captain Knight Bayou Canal on Sample Road.



**Stormwater Pump Stations 1 and 2 Generators** | Fort Lauderdale, Florida | Project Manager coordinated sub-consultants, liaised with the city project manager, and managed permitting for two generators which provides backup power for major pump stations in the City of Fort Lauderdale, located in the Riverwalk area. The pump station collects runoff from large areas of the city before discharging stormwater into the New River. Mr. Tenn supervised and managed the design and permitting for the natural gas-powered generators, coordinated the structural and electrical sub-consultants and processed permits through the Building Department. He also prepared bid documents, bid schedule and cost estimates in preparation for construction of the project.

**Driftwood Septic Tank Conversion & Water Main Replacement Project, Phase I** | Hollywood, Florida  
This was part of the citywide conversion of existing private sewer septic tank systems by expanding the city operated and maintained public sanitary sewer collection system. Craven Thompson created a Basis of Design Report and preliminary design layout splitting the service area into two (2) sewer basins. The layout provided expanded sanitary sewer service to approximately 1,828 single family residences, 222 multifamily residences and 981,000 SF of commercial property; for a total Average Daily Flow (ADF) of 733,900 GPD. Craven Thompson performed mobile lidar surveying, water meter use analysis, gravity sanitary sewer and force main system modeling and calibration, design, permitting and construction inspection of approximately 81,654 linear feet of 8" to 18" gravity sewer main, 16,598 linear feet of 8" to 30" force main, 9,416 linear feet of 16" reclaimed water main design, water main replacement, and 274 structures. Craven Thompson coordinated with the lot owners on easement requirements and connection details.

**Utility Analysis Zone Improvement Program (UAZ) 108** | Broward County, Florida | Civil Engineer  
UAZ 108, a two hundred and twenty (220) acre area, in the City of Lauderdale Lakes, Florida. The project included the construction of a sanitary sewer collection system consisting of 26,875 linear feet of 8" gravity main, 1,395 linear feet of 10" gravity main, 2,790 linear feet of 12" gravity main, 1,530 linear feet of 6" force main, 3,630 linear feet of 8" force main, 1,350 linear feet of 10" force main, 1,140 linear feet of 16" force main, and 452 service laterals. The water distribution system improvements included 24,560 linear feet of 6" main, 8,450 linear feet of 8" main, 6,300 linear feet of 10" main, 975 linear feet of 12" main, 150 linear feet of 16" main, 1,425 linear feet of 20" main, the abandonment and grouting of 35,575 linear feet of existing watermain, and the construction of 441 water services. In addition, 36,000 linear feet of roadway reconstruction along with right-of-way restoration.

**Septic Tank Elimination Program District 2, Area 2-G Project** | Pompano Beach, Florida | Project Manager  
Designed approximately three thousand (3,000') feet of eight (8") gravity sewer main, eleven (11) maintenance access structures, one (1) retail lift station and seventeen hundred and fifty (1,750') feet of six (6") force main in NW 16<sup>th</sup> Lane, NW 17<sup>th</sup> Lane, Park Central Boulevard South and Copans Road in Pompano Beach. Roadway restoration, Test Hole locations and, geotechnical investigation.



## Robert Connors, P.E.

Civil Engineer

Mr. Connors is a native South Floridian with forty years of engineering experience in Broward County. During this time, he has participated in the engineering design and construction of various private and public sector land development projects. Responsibilities include design and preparation of construction plans, permit coordination and approval with governmental agencies. Responsible for project management and design of public-sector projects, including water, sewer, roads, drainage, cost estimates, specifications and construction administration, inspection, and certifications.

### Professional Registrations

- State of Florida  
Professional Civil Engineer  
No. 41863 (1989)

### Education + Training

- Bachelor of Science in  
Civil Engineering,  
University of Florida  
(1984)

### Years of Experience

- Total: 40; With Firm: 33

### Relevant Experience

**Watermain Replacement Program City Project No. 15-5129** | Hollywood, Florida | Project Engineer - Mr. Connors assisted in the design and permitting of the project. The project involves the replacement of approximately 87,400 linear feet of existing water service mains, 2" and 4", with new 4" - 6" water service main and water services and replacement of existing 6" - 12" distribution water mains with new 6" - 12" water distribution water mains including replacement and addition of fire hydrants.

**Septic Tank Elimination Program District 2, Area 2-G Project** | Pompano Beach, Florida | Project Manager  
Designed approximately three thousand (3,000') feet of eight (8") gravity sewer main, eleven (11) maintenance access structures, one (1) retail lift station and seventeen hundred and fifty (1,750') feet of six (6") force main in NW 16<sup>th</sup> Lane, NW 17<sup>th</sup> Lane, Park Central Boulevard South, and Copans Road in Pompano Beach. Roadway restoration, test hole locations, geotechnical investigation are also included in the project.

**Utility Analysis Zone (UAZ) 108** | Lauderdale Lakes, Florida | Project Engineer

Mr. Connors was primarily responsible for the design of sanitary improvements. The project sanitary sewer collection system consisted of 26,875 linear feet of 8" gravity main, 1,395 linear feet of 10" gravity main, 2,790 linear feet of 12" gravity main, 1,530 linear feet of 6" force main, 3,630 linear feet of 8" force main, 1,350 linear feet of 10" force main, 1,140 linear feet of 16" force main, and 452 service laterals.

**Lake Worth 2" GS Watermain Replacement Phase 2** | Lake Worth Beach, Florida | Civil Engineer

The City sought and secured a FDEP Drinking Water State Revolving Fund loan for the project. Craven Thompson was retained by the City to provide survey, design, permitting, DWSRF loan assistance and construction services for Phases 2 – 6 of the project. Phase 2 consists of: 11,859 linear feet of 4" diameter main, 4,902 linear feet of 6" diameter main, 509 water services, 16 fire hydrants, 78 gate valves, and the restoration of the right-of-way including 27,235 square yards of roadway and curb & gutter and sidewalk.

**Master Pump Station 224 Improvements** | Lighthouse Point, Florida | Civil Engineer

Responsible for design & permitting of Master Pump Station 224 including wet well rehabilitation, by-pass system, replacement of piping, pumps, panels, electrical services, valves, waterproof vaults, hatches, SCADA instrumentation, provided by County, etc. within the parcel of MPS 224.

**Lake Worth Downtown Watermain Replacement** | Lake Worth Beach, Florida | Civil Engineer

This project has been identified by water distribution staff to replace several problem areas in the downtown corridor where there have been frequent water main breaks. The lines are undersized and lack PBCHD required minimum separation from other utilities, as well as ground depth. The new lines will be PVC and will be sized in accordance with fire flow requirements.

**Utility Analysis Zone Improvement Program (UAZ) 124 | Broward County, Florida | Civil Engineer**

Responsible for the design, water, and sewer system modeling, and permitting of a sanitary sewer collection system consisting of 25,446 linear feet of 8" gravity main, 302 linear feet of 10" gravity main, 2,003 linear feet of 12" gravity main, and 46 linear feet of 16" gravity main. The sanitary force main system consisted of 2,350 linear feet of 8" main, and 3,790 linear feet 12" main. Mr. Connors assisted in the modeling, design, permitting for the construction of the water distribution system additions including 27,210 linear feet of 6" water main, 6,040 linear feet of 8" water main and 5,380 linear feet of 10" water main for a total of 38,630 linear feet of water main. The project also included the abandonment in-place and grouting of 33,000 linear feet of existing water main, and the replacement of 825 water services.

**South County Neighborhood Improvement Project | Broward County, Florida | Civil Engineer**

Assisted with modeling, design, permitting and construction management for 1,400 acre retrofit infrastructure improvements within unincorporated Broward County. The design and permitting included the following improvements: water distribution, new sanitary sewer, roadway design, storm water quality treatment, storm water attenuation, new storm sewer, landscaping, signage, and sidewalk systems. The project included the design, permitting, bidding and construction consisting of 53 miles of roadway, 181,000 linear feet of storm sewer (including exfiltration trench), 140,618 linear feet of water main, 236,226 linear feet of gravity sanitary sewer, and 80 miles of sidewalk.

**North County Neighborhood Improvements Project, NE Quadrant | Pompano Beach, Florida | Civil Engineer - Mr. Connors assisted in design, water, and sewer system modeling, and permitting of water distribution and sanitary sewer for rehabilitation project. This included a sanitary sewer collection system consisting of 69,550 linear feet of 8" gravity main, 807 linear feet of 10" gravity main, 129 linear feet of 12" gravity main, and 144 linear feet of 16" gravity main. The sanitary force main system consisted of 540 linear feet of 8" main, and 1,540 linear feet 12" main. The water distribution system additions included 35,626 linear feet of 6" main, 10,161 linear feet of 8" main, 841 linear feet of 12" main, 1,306 linear feet of 20" main, and 1,023 linear feet of 24" main, for a total of 9.27 miles of water main.****North County Neighborhood Improvement Project, NW Quadrant | Broward County, Florida | Civil Engineer - The North County Neighborhood Improvement Project, NW includes approximately 650 acres of land. Mr. Connors assisted in preparing the design, water, and sewer system modeling, and permitting for the water distribution, sanitary sewer collection systems, storm sewer systems, and roadway improvements for the entire 650 acres. The sanitary sewer collection system consisted of 22,047 linear feet of 8" gravity main, and 34 linear feet of 10" gravity main. The sanitary force main system consisted of 295 linear feet - 8" main, 2,235 linear feet of 10" main, 3,790 linear feet 12" main, 4,300 linear feet of 16" main, and 4,205 linear feet of 20" main. There were 93 new sanitary manholes added to the area. The water distribution system additions included 5,760 linear feet of 16" water main, 7,156 linear feet of 12" water main, 1,256 linear feet of 10" water main, 12,779 linear feet of 8" water main and 44,217 linear feet of 6" water main.**



## Leonard "Zach" Gamble, P.E.

### Civil Engineer

Mr. Gamble has twenty-two years of experience in civil engineering design and permitting in South Florida. The areas in which Mr. Gamble has municipal engineering experience include: stormwater studies, computer modeling, drainage/water/sanitary design & permitting, and roadway design. The range of his experience includes drainage design & analysis, design of water distribution systems, sewer collection systems, CADD drafting, cost estimates, ICPR, & CEI.

### Professional Registrations

- Professional Engineer  
State of Florida No. 65921  
(2007)

### Education + Training

- Bachelor of Science,  
Mechanical Engineering,  
North Carolina State  
University (2002)

### Years of Experience

- Total: 21; With Firm: 17

### Relevant Experience

**Western C-11 Facilities Report Update and Basin Study-CBWCD** | Davie, Cooper City, Southwest Ranches, Florida | Project Civil Engineer. Assisted in performing a hydrologic and hydraulic analysis of CBWCD canals within the Western C-11 Basin; developed a model utilizing PCSWMM stormwater modeling software. Craven Thompson surveyed, cross-sectioned, and created a Stormwater Master Plan for thirty-seven (37) District maintained Canals in the West Basin covering 15,952 acres for the purpose of updating the Facilities Report.

### 2<sup>nd</sup> Street Traffic Circle and Sidewalk Improvements

 | Greenacres, Florida | Project Manager

Mr. Gamble managed the project, designed and permitted a traffic circle at 2<sup>nd</sup> Street and Swain Boulevard in the City of Greenacres. This included landscape, hardscape and a clock feature within the circle. Curb & gutter, sidewalk and drainage were included along with other utility adjustments and relocations. The project also included: 18,300 feet (3.14 miles) of proposed sidewalk, and ADA improvements as well as drainage design for conflicts with proposed sidewalk.

### Swain Boulevard Complete Streets Project

 | Greenacres, Florida | Project Manager

Mr. Gamble is managing the design and permitting of the Swain Boulevard Complete Streets Project which is a 4,500 linear foot project running from Lake Worth Road to 10<sup>th</sup> Avenue North. The project includes bicycle lanes of both sides of the street, sidewalks, parallel parking, landscape, hardscape and drainage. It also includes traffic circles at 1<sup>st</sup> Street, and 4<sup>th</sup> Street.

### Utility Analysis Zone (UAZ) 122

 | Lauderdale Lakes, Florida | Civil Engineer

The project included the construction of a sanitary sewer collection system consisting of 19,345 linear feet of 8" gravity main; 1,350 linear feet of 10" gravity main; 4,800 linear feet of 8" force main; and 105 service laterals. The water distribution system improvements included: 11,190 linear feet of 6" main; 10,875 linear feet of 8" main; 5,205 linear feet of 10" main; 3,690 linear feet of 12" main; 630 linear feet of 16" main.

### Boca Villas Infrastructure Upgrade

 | Boca Raton, Florida | Senior Engineer

The Boca Villas project is part of the City's Innovative Sustainable Infrastructure Program (ISIP). The water distribution system improvements include: 1,100 linear feet of 4" main, 19,605 linear feet of 6" main, 16,459 linear feet of 8" main, 6,453 linear feet of 12" main, 2,982 linear feet of 16" main, 36 fire hydrants, the abandonment and grouting of 28,700 linear feet of existing watermain, and the construction of 600 water services.

### Dillman Trail Improvements

 | Greenacres, Florida | Project Manager

Dillman Trail is a TPA funded FDOT LAP Project. The City of Greenacres is the local agency for a 3,964 linear foot meandering 12' wide multi-use pathway and associated drainage swale, landscape, and irrigation system running north-south connecting pathways between S.R. 882 Forest Hill Boulevard and Dillman Road. The project required careful coordination with Lake Worth Drainage District as the project runs along and adjacent to the LWDD OPC canal. For the LAP process, Mr. Gamble worked with Ramon Alvarez & Mya Williams with FDOT on the project.

**Storm Sewer Outfall Replacement to SFWMD C-17 Canal | Lake Park, Florida | Project Manager**

The project involved the replacement of a new storm sewer outfall pipe into the SFWMD C-17 Canal north of Northlake Boulevard. The original pipe was a 33" diameter CMP which had greatly deteriorated. The original permit indicated that the outfall pipe was a 36" diameter CMP. Since the time of issuance of the original permit, a 21" diameter pipe had been installed above the 33" pipe. Craven Thompson was retained by Lake Park to restore the canal bank and outfall pipe to the originally permitted condition. Craven Thompson and the Town met with the SFWMD with regards to the necessary work. The SFWMD has agreed to the proposal and required only a general permit. The project was permitted through SFWMD and the ACOE.

**Original Section Drainage Improvements – Stormwater Master Plan, and Phases 1 - 6 Implementation | Greenacres, Florida | Project Manager**

The Original Section Drainage Improvements project located in the City of Greenacres is a master planned drainage improvement project for an existing 246-acre neighborhood between Jackson Avenue and Fleming Avenue, from Lake Worth Road to 10<sup>th</sup> Avenue North. The Master Plan included the modeling of existing and proposed drainage improvements using *Interconnected Channel and Pond Routing* (ICPR) software and developing phased improvements for the area. The project required over 6,500 linear feet of drainage pipe, 21,615 linear feet of ditch reshaping, long lengths of sidewalk replacement, driveway restorations, and pavement restoration. The Phase 1 project required installation of 500 linear feet of 36" RCP storm pipe, 1,010 linear feet of 24" RCP Storm Pipe, 156 linear feet of 18" RCP Storm Pipe, 156 linear feet of 12"x18" RCP Storm Pipe, significant ditch reshaping, sidewalk replacement, and replacement of outfall to LWDD canal; Phase 2 included 6,200 linear feet of ditch grading and 4 culvert crossings; Phase 3 included 1,000 linear feet of drainage pipe; Phase 4 involved ditch reshaping and 5 culvert crossings; Phase 5 encompassed the replacement of 6 outfalls, and the restoration of 120 linear feet of canal; Phase 6 included the replacement of 9 outfalls, drainage pipe, and canal restoration.

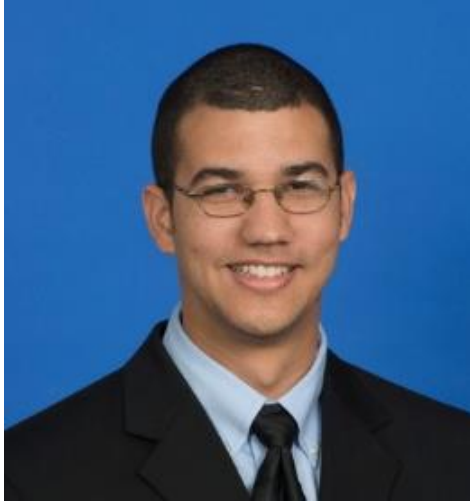
**Chickasaw Road Improvements and Piping of LWDD L-11 Canal | Greenacres, Florida | Project Manager.** Chickasaw Road project includes the complete reconstruction of 1,607 linear feet of roadway, replacement of the roadway drainage system, and piping of the LWDD L-11 canal from Jog Road to just past the end of Chickasaw Road approximately 1,528 linear feet. Worked with the City of Greenacres and Lake Worth Drainage District initially to establish the initial basic design requirements and concepts to meet both entities requirements. Worked with Tommy Strowd and Nicole Smith from LWDD regarding the LWDD requirements.

**Chatham Hills Infrastructure Upgrade | City of Boca Raton, Florida | Project Manager**

The Chatham Hills project is part of the City's Innovative Sustainable Infrastructure Program (ISIP). Project involves relocation and upsizing (where needed) approximately twenty-four thousand five hundred (24,500') feet of existing domestic water mains from the rear yards to the rights-of-way. This includes abandonment of the existing water main system, relocation and reconnection of the water service from the new water main to the structure as well as restoration of private and public property. The new water main along Federal Highway interconnects to the existing infrastructure to the east. Installation of an additional water main on NE 28<sup>th</sup> Street, to interconnect Dixie Highway and Federal Highway water mains. Work also includes sidewalk removal and replacement due to trip hazards, infill of missing segments of sidewalks to complete network (if requested by city), mill and overlay of all roadways, installation/replacement of ADA ramps (where ramps and sidewalks exist), and minor swale improvements.

**10<sup>th</sup> Avenue North Phase 3 Sewer Project | Greenacres, Florida | Project Manager**

The 10<sup>th</sup> Avenue North Sanitary Sewer Phase 3 project is part of a master planned gravity sanitary sewer project. Phase 3 is located at 10<sup>th</sup> Avenue North and Swain Boulevard and extends within the Swain Boulevard Right-of-way 300 feet north and south of the 10<sup>th</sup> Avenue North Right-of-Way as well as within 10<sup>th</sup> Avenue North from Swain Boulevard to Martin Avenue. Craven Thompson performed design and construction administration work. The project required installation of 1,062 LF of 8" gravity SDR 35 sanitary sewer pipe from 8' deep to 12' deep, 64 LF of 8" DIP water main, and 50 LF of 6" DIP water main. Significant pavement section replacement was required as well as milling and resurfacing.



## Luis Pimentel, P.E.

Civil Engineer

Mr. Pimentel is a Civil Engineer with over eighteen years of experience in the Municipal Engineering field. Mr. Pimentel has worked on projects ranging from roadway improvements to citywide infrastructure improvement projects. He has experience with permitting agencies such as Miami Dade County Water and Sewer Department, Broward County Health Department, and Broward County EPGMD

### Professional Registrations

- State of Florida  
Professional Civil  
Engineer No. 86616  
(2019)

### Education + Training

- Bachelor of Science,  
Civil Engineering,  
Florida International  
University (2008)

### Years of Experience

- Total: 18; With Firm: 10

### Relevant Experience:

**Seminole Hollywood Reservation Stormwater Master Plan** | STOF Hollywood Reservation, Florida | Project Manager - Craven Thompson developed a stormwater master plan inclusive of data collection, basin delineation, stormwater modeling and analysis, alternative development and evaluation, and a prioritized capital improvement plan (CIP) that considered existing and future land uses as well as future environmental conditions, including the impacts of sea-level rise and global warming.

**Hallandale Beach Stormwater Master Plan** | Hallandale Beach, Florida | Senior Engineer - Mr. Pimentel generated a computer model using Streamline Technologies ICPR software to analyze the entire 2,800 acres of the City of Hallandale. Included in the model were headwater and tailwater assumptions, stormwater pump stations and wells. The drainage basin was divided into sixty (60) sub-basins for analysis. Recommended improvements were generated based on the results of the post improvement model.

### Stormwater Master Plan | North Miami Beach, Florida | Senior Engineer

Analyzed the results of the ICPR models for the various storm events identified the facilities within the sub-basins that required capital improvements. Proposed capital improvements were based upon the following criteria: finished floor elevations shall be above the 100-year, 3-day storm event flood elevation, crown of major roadway elevations shall be above the 25-year, 3-day storm event flood elevation, and crown of subdivision street elevations shall be above the 10-year, 1-day storm event flood elevation. All capital improvements were remodeled in ICPR and the sub-basins analyzed based upon the modeled results. All capital improvement recommendations included: estimated construction costs, analyzed system & recommended improvements, Incorporated changes into model, provided cost estimate.

### Gulfstream Road Drainage Project | Palm Springs, Florida | Civil Engineer

The Gulfstream Road Drainage Improvement project is located within Gulfstream Road between Lake Worth Road SR 802 and Lakewood Road in Palm Springs, Florida. The project is entirely within the City Road right-of-way that is approximately 1.03 acres. The road was previously constructed many years ago including and existing drainage collection system with a 24" CMP outfall pipe that drains to the FDOT drainage system in Lake Worth Road. The proposed project is to expand the upstream portion of the collection system within the 1.03 acre right of way as well as replace the older existing drainage piping and structures and grade roadside swales to improve function of the existing drainage system.

### NE 191<sup>st</sup> Street Drainage Improvements | Aventura, Florida | Senior Engineer

Craven Thompson provided surveying and civil engineering for NE 191<sup>st</sup> Street, from Biscayne Boulevard to NE 29<sup>th</sup> Avenue. Mr. Pimentel assisted in the design and permitting of stormwater improvements for NE 191<sup>st</sup> Street between Biscayne Boulevard and NE 29<sup>th</sup> Avenue. Worked on design plans and stormwater calculations. Processed permit applications with Miami Dade Department of Environmental Resources Management and Miami-Dade County.



**Miami Gardens Livable Neighborhood Vista Verde Phases 1C, 1D, 2, & 3** | Miami Gardens, Florida | Senior Engineer - Assisted in the design and permitting of stormwater improvements for multiple areas within the Vista Verde neighborhood in the City of Miami Gardens. Improvements included: 7,280 linear feet of storm sewer, 5,640 linear feet of exfiltration trench, 140 drainage structures, 30,050 SY of roadway milling & resurfacing, and 29,900 SY of roadway reconstruction.

**Hallandale Beach NE & SW Quadrant Drainage Study & Improvements** | Hallandale Beach, Florida | Project Engineer - While with another firm, Mr. Pimentel modeled a proposed system of two pump stations connected to eight wells each (for a total of sixteen wells) while maintaining the existing gravity wells and gravity outfall. These sixteen new wells will be pressurized with fifteen (15) feet of head in order to produce the necessary discharge into the G3 aquifer. A new storm sewer collection system was designed and permitted, along with a water quality treatment system for the 200-acre tributary area. Mr. Pimentel's work also included acquiring eight million dollars in FEMA HMGP grants for the project.

**NE 29<sup>th</sup> Place North** | Aventura, Florida | Civil Engineer

The project included professional consulting services for the milling and resurfacing of existing roadway, installation of curb and gutter, pavement marking, signage, and traffic signal loops drainage installation, cleaning and videoing of drainage system, sidewalk construction, tree removal and installation, and light pole modifications on NE 29<sup>th</sup> Place (North) from Aventura Boulevard to NE 203<sup>rd</sup> Street. This involved permitting through the City of Aventura Public Works for work in the public right-of-way, and a Miami-Dade County DERM Drainage Permit.

**Kingfisher Canal Outfall Treatment Structure Project** | Deerfield Beach, Florida | Civil Engineer

The improvements consisted of combining both the twenty-four (24") inch and seventy-two (72") inch systems together in SE 9<sup>th</sup> Avenue. Installation of a CDS, water quality structure in-line with the seventy-two (72") inch pipe after the two systems combine was completed. The work included removing the existing drainage structure on the seventy-two (72") inch pipe at SE 9<sup>th</sup> Avenue and replacing it with a large structure to accommodate both pipes and the installation of the CDS structure.

**Three Island Blvd. Traffic Calming Project** | Hallandale Beach, Florida | Civil Engineer

Assisted in the design and permitting of the project which consists of traffic calming, accessible ramps and crosswalks, landscaping and lighting at guardhouses, electronic speed feedback signs, bike lane markings, guardhouse painting and gate arm replacement. Craven Thompson performed surveying, landscape architecture and civil engineering services.

**Country Club Drive Milling & Resurfacing Project** | Aventura, Florida | Civil Engineer

The project included the complete milling and resurfacing of the outside half of right-of-way of Country Club Drive, including milling, asphalt paving, curbing, sidewalk repairs, re-setting brick pavers, handicap ramps, adjusting utilities, pavement markings, grading and restoration.



## Philip Joseph, P.E.

Civil Engineer

Mr. Joseph has over thirty years of experience in the civil engineering field in water and sewer system modeling, design, analysis, and land development. He is proficient in AutoCAD, MicroStation, SewerCAD, WaterCAD and MS project software.

### Relevant Experience:

#### **Master Lift Station W-14 Upgrade** | Hollywood, Florida | Civil Engineer

The rehabilitation for sanitary sewer Lift Station W14 included the modification of the existing stations by replacing the existing pumps based on a wastewater system analysis performed by Craven Thompson, replacement of internal piping to the station wall including valves and fittings, rehabilitation of the existing concrete floor, walls, ceiling, vaults, wet well, dry well, exterior vault, access hatch and concrete pillars, replace electrical meter and main, replace motor control panels and rewire new pumps, new RTU, new SCADA, rewire and replace branch wiring outlets and fixtures, generator with double wall tank with leak detection, etc.

#### **Lift Station A-6 Upgrade** | Hollywood, Florida | Civil Engineer

Mr. Joseph assisted in the design and permitting of the reconstruction of sanitary sewer Lift Station A6 which included the replacement of the existing suction lift pump station with a new wet well, submersible pumps, converting the existing wet well into a manhole, valve vault, panels, SCADA system as well as hardscape and landscaping.

### Professional Registrations

- State of Florida  
Professional Civil Engineer  
No. 50825 (1996)

### Education + Training

- Master of Science,  
Mechanical Engineering,  
Florida Atlantic University  
(1993)
- Master of Business  
Administration, Florida  
Atlantic University (2001)

### Years of Experience

- Total: 30; With Firm: 20

#### **Lift Station E-02 Rehabilitation** | Hollywood, Florida | Civil Engineer

The existing lift station is equipped with three 22 HP pumps which were upgraded to 46.94 HP pumps. The final design upgraded the pumps to three 45 horsepower pumps to meet the build out increased sanitary flow and the current DEP standards. All the 8" piping and valves in the lift station were upgraded to 12". These upgrades increased the lift station capacity from approximately 1,700 GPM to 3,500 GPM.

#### **Lift Stations 24E1, 22, 30E and 50K2 Rehabilitation** | Broward County, Florida | Civil Engineer

Rehabilitation of existing Retail Lift Stations 24E1, 22, 30E and 50K2, including pumps, panels, controls, coatings, valve pits, hatches and piping out of valve pit.

#### **Lift Station 30G Rehabilitation** | Dania Beach, Florida | Civil Engineer

Mr. Joseph assisted in design and permitting of the improvements which included the rehabilitation of Lift Station 30G owned by Broward County and operated and maintained by Broward County WWS. Broward County selected Craven Thompson to design improvements to rehabilitate the existing lift station. Craven Thompson designed, permitted, and provided construction engineering and inspection services for the construction of the submersible duplex station including 15 HP submersible pumps, 6" diameter piping, an 8' diameter wet well, valve box and control panels. The station was designed to pump 425 gallons per minute at 72 feet of head.

#### **Triplex Lift Station 50B Rehabilitation** | Lauderdale Lakes, Florida | Civil Engineer

Mr. Joseph assisted with design, permitting, bidding, and construction management/administration of the 12' diameter wet well, replacement of the valve pit, all new internal piping and valves, a new emergency generator, and replacement of the control panel. This project involved the construction of a submersible triplex station including *new 20 HP HOMA submersible pumps*, 10" diameter piping, a 12' diameter wet well, valve box, control panel and *a new emergency generator*. The station was designed to pump 1,760 gallons per minute at 51 feet of head.



**Master Pump Station 224 Improvements** | Lighthouse Point, Florida | Civil Engineer - Project Engineer responsible for design & permitting of Master Pump Station 224 including wet well rehabilitation, by-pass system, replacement of piping, pumps, panels, electrical services, valves, waterproof vaults, hatches, SCADA instrumentation, provided by County, etc. within the parcel of MPS 224.

**Utility Analysis Zone Program (UAZ) 310** | Broward County, Florida | Civil Engineer

Mr. Joseph designed, and permitted a complete water distribution system consisting of 2,120 linear feet of 6" main, 38,502 linear feet of 8" main and 6,895 linear feet of 12" D.I.P. main. The construction also included sixty-three (63) new fire hydrants.

**Government Center Commercial Alleyways 2" GS Watermain Replacement** | North Miami Beach, Florida | Civil Engineer - As with many eastern Miami-Dade municipalities, North Miami Beach has an aging and undersized water distribution system. The city has embarked on a program to install & upgrade new watermain at various locations within their services area. The city hired Craven Thompson to survey, design, permit and provide construction engineering and inspection services for the upgraded Government Center system including: 4,830 linear feet of 4" dia. main, 67 water services, and 12 gate valves along with 2,800 SY of pavement restoration.

**North County Neighborhood Improvement Project, NW Quadrant** | Broward County, Florida | Civil Engineer - The North County Neighborhood Improvement Project, Northwest Quadrant includes approximately 650 acres of land between Dixie Highway and I-95, North of Sample Road, in the City of Deerfield Beach. Mr. Joseph completed the design and permitting for the water distribution, sanitary sewer collection systems, storm sewer systems, and roadway improvements for the entire 650 acres. The sanitary sewer collection system consisted of 22,047 linear feet of 8" gravity main, and 34 linear feet of 10" gravity main. The sanitary force main system consisted of 295 linear feet of 8" main, 2,235 linear feet of 10" main, 3,790 linear feet 12" main, 4,300 linear feet - 16" main, and 4,205 linear feet - 20" main. There were ninety-three (93) new sanitary manholes added to the area. The water distribution system additions included 5,760 linear feet of 16" water main, 7,156 linear feet of 12" water main, 1,256 linear feet of 10" water main, 12,779 linear feet of 8" water main and 44,217 linear feet of 6" water main.

**Septic Tank Elimination Program District 2, Area 2-Q Project** | Pompano Beach, Florida | Civil Engineer Installation of approximately six hundred fifty (650') feet of new gravity sewer and 8" water main system in NW 14<sup>th</sup> Avenue in Pompano Beach to serve properties located on the west side of NW 14<sup>th</sup> Avenue south of Sample Road.

**Septic Tank Elimination Program District 3, Area 3A-R** | Dania Beach, Florida | Civil Engineer Installation of approximately four hundred (400') feet of new gravity sewer system and four hundred (400') feet of 6" water main on SW 28<sup>th</sup> Terrace and north of SW 45<sup>th</sup> Street in Dania Beach to provide service to approximately eight (8) properties.



## Brian Tull

### Construction Manager

Mr. Tull is a Construction Manager with twenty-four years of field experience in all phases of construction on governmental projects. His management responsibilities include coordination of project / construction activities. This involves the monitoring, coordinating, & overseeing of project / construction activities from the design phase to construction completion.

#### Professional Registrations

- FDEP Stormwater, Erosion & Sedimentation Control Inspector, No. 43752
- Certified for Troxler Nuclear Testing (2009)
- United States Navy - Mechanical and Safety Inspector on F-14 Tomcat Aircraft
- Philips and Jordan Underground Utilities Superintendent for Army Corp of Engineers

#### Years of Experience

- Total: 24; With Firm: 17

#### Relevant Experience:

**Utility Analysis Zone Improvement Program (UAZ) 122** | Broward County, Florida | Construction Manager - UAZ 122 is a one hundred and sixty (160) acre area in the City of Lauderdale Lakes, Florida. The water distribution system included: 11,190 linear feet of 6" main; 10,875 linear feet of 8" main; 5,205 linear feet of 10" main; 3,690 linear feet of 12" main; 630 linear feet of 16" main; abandonment and grouting of 25,435 linear feet of existing watermain; and the construction of 66 water services. Craven Thompson modeled the systems using SewerCAD and WaterCAD as well as creating the construction documents, permitting, assisting with bidding and CEI services for the infrastructure rehabilitation projects.

**Master Pump Station 224 Rehabilitation** | Lighthouse Point, Florida | Senior Construction Inspector - Rehabilitated existing Master Pump Station 224 including wet well rehabilitation, bypass system, replacement of piping, pumps, panels, electrical services, valves, waterproof vaults, hatches, SCADA instrumentation within the parcel of MPS 224.

**Utility Analysis Zone Improvement Program (UAZ) 123** | Broward County, Florida | Construction Manager Utility Analysis Zone (UAZ) 123, two hundred forty (240) acre area in the City of Lauderdale Lakes, Florida. The project included sanitary sewer consisting of: 28,750 LF of 8" gravity main, 1,735 LF of 10" gravity main, 45 LF of 18" main, 180 LF of 6" force main, 1,920 LF of 8" force main, 585 LF of 12" force main, 1,680 LF 16" force main, 1,230 LF 18" force main, and 800 LF 20" force main. The water distribution system improvements included: 17,330 LF of 6" main, 9,555 LF of 8", 1,830 LF of 10" main, 1,740 LF of 12" main, 4,930 LF of 16" main, 1,380 LF of 20" main.

**Pump Station A-13 & Sewer Redirection East of Federal Highway** | Fort Lauderdale, Florida | Construction Manager - This project is for the construction of Lift Station A-13, located at the southeast corner of Southeast 2<sup>nd</sup> Court and Southeast 8<sup>th</sup> Avenue. The project scope included the construction of an 18-inch diameter gravity sanitary sewer system and the connection to an existing active sanitary sewer manhole located at the intersection of Federal Highway and Broward Boulevard to the new lift station.

**SW 36<sup>th</sup> Street Improvements** | Davie, Florida | Senior Construction Inspector - The project consisted of roadway, roadway drainage, utility & landscape/ hardscape improvements to SW 36<sup>th</sup> Street in Davie, Florida. The existing roadway section was expanded from 22' to 25' wide. SW 36<sup>th</sup> Street was designed as a two-lane divided boulevard from College Ave. to SW 76<sup>th</sup> Avenue within a 75-foot public ROW width.

**River Oaks Neighborhood Drainage Improvements** | Fort Lauderdale, Florida | Construction Manager Improvements include: 12,677 LF of swale re-grading, 5,346 LF of storm pipe removal, removal of 251 storm structures, the installation of 90 LF of 15" storm sewer, 4,374 LF of 18" storm sewer, 4,675 LF of 24" storm sewer, 1,771 LF of 36" storm sewer, 145 LF of 48" storm sewer, 3,129 LF of 66" storm sewer, 1,056 LF of 72" storm sewer, 2,640 LF of 24" exfiltration trench, 236 drainage structures, two (2) STORMCEPTER water quality structures, one (1) TIDEFLEX backflow prevention valve, and 4,219 LF of sidewalk. The project also includes one small duplex stormwater pump station, and one large stormwater pump station.

**Westside Drainage Infrastructure Improvements | Davie, Florida | Construction Manager**

The storm drainage trunk line, and discharge are connected to the CBWCD N-7 Canal via one (1) new control structure. The project required an ICPR stormwater modeling analysis. The new control structure was placed in the dry retention area near the northern end of the Covenant House Park Site and has a 5.40-inch-wide weir slot at invert elevation 3.55' NAVD to limit the discharge to the canal and provides the required water quality for the Public Works Site, Covenant House Park Site, and the West Side. The North Side has its own dry retention and control structure with a weir elevation of 3.10' NAVD, prior to discharging to the main trunk line. The storm sewer was 3,225 linear feet, the exfiltration trench was 1,270 linear feet, the roadway, 6,100 linear feet and the sidewalk 2,300 linear feet.

**Eastside Master Infrastructure Project, Phases 2 & 3 | Davie, Florida | Construction Inspector**

Mr. Tull provided construction inspection services for the project which consisted of approximately 340 acres of infrastructure rehabilitation. The basic infrastructure work consists of watermain, sanitary sewer, and storm sewer. The drainage/roadway work consists of: 22,763 linear feet of roadway reconstruction; 41,000 square yards of swale regrading; 18,940 linear feet of storm sewer; 12,450 square yards of sidewalk; 7,400 square yards of driveway restoration; 146 storm structures; 3 outfalls; 1 control structure. The water distribution included: 14,800 linear feet of 6" diameter main; 5,075 linear feet of 8" diameter main; and 5,140 linear feet of 12" diameter main; abandon and grout 11,450 linear feet of existing watermain in place; 50 fire hydrants; 154 gate valves; 40,400 linear feet of water service piping on private property. The sanitary improvements included: 11,455 linear feet of 8" diameter pipe; 40 sanitary manholes; and 2,945 linear feet of 16" diameter forcemain.

**Davie Road Phase 1 CEI Services | Davie, Florida | Construction Inspector**

This project was for the construction engineering inspection services to re-construct a public roadway known as Davie Road Phase 1 within public right-of-way owned by Broward County extending from the State Road 84 Right-of-Way to Nova Drive. The length of the reconstruction was approximately 2,640 linear feet. The primary intent was for Craven Thompson to provide construction engineering inspection services for the re-construction of the roadway. The construction project consisted of pavement, base and sub-grade reconstruction, curb & gutter construction, bike lane construction, sidewalk construction, median construction, driveway reconstruction within the right-of-way, drainage system construction, landscaping & irrigation construction, pavement marking & signage, traffic signal modification at Reese Road and at Nova Drive, street lighting, and coordination with utility companies.

**Broward County Convention Center Expansion & Hotel | Fort Lauderdale, Florida | Construction Manager** – Craven Thompson provided survey, planning, infrastructure and drainage design, utilities relocations, LEED, permitting, and CEI services. This billion-dollar project consists of a 178,000 square-foot expansion to the existing Convention Center, construction of a second 340,000 square-foot convention center expansion, an 800-key Hotel, a central plaza with 15,000 square-foot of restaurants, a Convention Visitors Bureau building, reconfiguration of an existing garage, and select building demolition within a 36.2-acre parcel. As an active site, multi-phasing of both demolition and construction was necessary to accommodate ongoing Convention Center and Port operations. Utilizing as-bults and record drawings overlaid with proposed improvements, a masterplan was developed as a roadmap for proposed construction and phasing. Project approvals required coordination of multiple jurisdictional interests including Broward County, Port Everglades, City of Fort Lauderdale, FDOT, Army Corp of Engineers, while meeting updated requirements of permitting agencies and client's desire for sustainable development.



## Jeffery LaBelle

Assistant Construction Manager

Mr. LaBelle has over forty-three years of experience in the construction industry with experience as a CEI Senior Roadway Inspector in major roadway in FDOT District 6 and District 4 projects. Mr. LaBelle recently completed the HEFT Resurfacing and Safety Improvement project.

### Relevant Experience:

**Utility Analysis Zone (UAZ) 108** | Lauderdale Lakes, Florida | Construction Manager - The sanitary collection system consisted of: 26,875 linear feet of 8" gravity main, 1,395 linear feet of 10" gravity main, 2,790 linear feet of 12" gravity main, 1,530 linear feet of 6" force main, 3,630 linear feet of 8" force main, 1,350 linear feet of 10" force main, 1,140 linear feet of 16" force main, 452 service laterals, and two lift stations. The water distribution system improvements included: 24,560 linear feet of 6" main, 8,450 linear feet of 8" main, 6,300 linear feet of 10" main, 975 linear feet of 12" main, 150 linear feet of 16" main, 1,425 linear feet of 20" main.

**Miramar Parkway Construction from I-75 to Flamingo Road** | Miramar, Florida | Senior Roadway Inspector - Responsible for verifying quantities and construction inspection of reconstruction of two plus miles of a six-lane facility including a large diameter arch plate culvert, fabric formed canal revetment, subsoil excavation, bike lanes, sidewalk, drainage system, asphalt paving, street lighting, signalization, landscaping, irrigation system, signing and pavement markings.

**Sunrise Boulevard from Hiatus Road to Pine Island Road** | Broward County, Florida | Project Administrator Responsible for responding to RFI's and plan interpretation. Widening and overbuild of an existing four-lane divided facility to a six-lane divided facility, including sidewalk, subsoil excavation, drainage, signalization, street lighting, landscaping, irrigation and signing & pavement markings.

**NW 21st Avenue from NW 19th Street to Oakland Park Boulevard** | Broward County, Client: Broward County | Project Administrator - Responsible for responding to RFI's, Change Orders, Pay Requests plan interpretation, field inspections for this project involving the reconstruction of the existing three-lane facility, including bike lanes, sidewalk, 8-inch ductile iron (DIP) water main, 6-inch force main, drainage system including jacked 72-inch RCP under the CSX R/R, asphalt paving, street lighting, upgrading the signalization system, landscaping, irrigation system, signing and pavement markings.

**I-595 Express Corridor Improvement (\$1.25 B) P3 Project** | Broward County, Client: FDOT District 4 | Senior Asphalt Inspector - Florida Department of Transportation \$1.25 Billion I-595 Express Lanes PPP (Public/Private Partnership). As a Senior Asphalt Inspector, worked on this project in all five segments A, B, C, D, E. His responsibilities include asphalt pavement verification testing on the roadway, and contractor adherence to the contract documents & specifications.

**Biscayne Boulevard Force Main Project, NE 105th St to NW 116th St** | North Miami, Client: City of North Miami | Senior Inspector - City of North Miami, Construct 1.3 miles of 12-inch DIP force main. Field observations of force main construction and witness pressure tests.

### Years of Experience

- Total: 43; With Firm: 10

### Registrations / Certifications

- TIN# L14042158
- CTQP Asphalt Paving Level 1&2
- CTQP Drilled Shaft Inspection
- CTQP Earthwork Construction Inspection Level 1&2
- CTQP QC Manager
- CTQP Final Estimates Level 1&2
- CTQP Concrete Field Tech 1
- CTQP FDOT Concrete Field Inspector Specification
- IMSA Traffic Signal Insp. Level 1
- ACI Conc. Field Tech. Grade 1
- Boart Longyear-Nuclear
- Density Gauge
- IMSA Traffic Signal Tech. Level II
- Nuclear Gauge Radiation Safety
- Hazmat Certification
- FDOT Advanced Temporary Traffic Control
- Critical Structures Const. Issues
- MSE Wall Inspector
- Auger Cast Pile



**Continuing Services for Maintenance, Engineering Inspection Fin No. 444319-1-72-01**, Client: FDOT District 6 | Senior Inspector - Responsible to review permits, lane closure requests, monitor roads ensuring lane closures installed have been approved and implemented per standards, conduct pre-construction meetings for approved permitted projects, ensure work being performed has approved permits and are constructed per FDOT standards. Conduct restoration meetings and perform final inspection and ensure necessary close-out documents are provided prior closing-out permits.

**2-52-01 HEFT Resurfacing and Safety Improvements from MP 0.0 to MP 9.2** | Miami-Dade County, Client: Florida Turnpike Enterprise | Senior Roadway Inspector - Responsible for the verification of construction along a corridor of nine miles. The projects consist of milling and resurfacing, widening for auxiliary lanes, guardrail installation and resetting, highway signing, lighting, and other incidental construction for this Limited Access facility. Improvements on all interchange ramps are included from MP 5.1 to MP 9.2. Construction Cost \$9.1 Million.

**NW 79 Street Grouping Project, Miami, FL. FIN# 427452-1-52-01 from NW 14 Ave. to North Bay Shore Dr. • FIN# 429185-1-52-01 NW 27 Ave. from NW 79 St. to NW 103 St. • FIN# 429147-1-52-01 NW 79 St. from NW 27 Ave. to NW 14 Ave.** | Miami, Client: FDOT District 6 | Senior Inspector - Responsible for Field Inspections (CEI) of roadway reconstruction, milling and resurfacing, signalization, lighting, ADA ramps, drainage, signing, pavement markings and bridge improvements. The project included signalization improvements at 17 intersections with the installation of 52 drill shafts and mast arms. Cost \$16 Million. Start/End Dates: 2014-2016. Recipient of the Excellence in Resurfacing-Urban Paving District 6 Award, Asphalt Contractors Association of Florida 06/2016 and Best in Construction Alternative Contracting Award, Florida Transportation Builders Association nomination to Best in Construction Partnering Award, Florida Transportation Builders Association.

**Improvements along SR-7 Corridor from Commercial Blvd. to Glades Rd., FL FIN No. 427937-1-52-01 RRR from South of Sample Rd. to the Broward/West Palm Beach County Line. • FIN No. 427937-2-51-01 Interconnect from Commercial Blvd. to South of Sample Rd. • FIN No. 427938-1-52-01 RRR from the Broward/West Palm Beach Rd. County Line to South of Glades Rd.** | Broward and West Palm Beach Counties, Client: FDOT District 4 | Senior Roadway Inspector - In charge of the verification of construction along a corridor of 10 miles for this \$14 Million project grouping two different projects. The project includes milling and resurfacing, drainage, swales, signalization, lighting, sidewalk, drill shafts, utility relocations, signage, pavement markings, fiber optic interconnect and ADA ramps along SR-7. Start/End Dates: August 2017-May 2020 “Excellence in Pavement-Resurfacing Rural District Award, Asphalt Contractors Association of Florida, May 2019, Florida Department of Transportation District 4, SR 7 Grouping Project, Fin No. 427938- 1-52-01,” “Best in Construction Urban Award, Florida Transportation Builders Association, May 2019, Florida Department of Transportation District 4, SR 7 Grouping Project, Fin No. 427938-1-52.” Nomination.

**Consent Decree Program North District Waste Water Treatment Plant** | Miami-Dade, County, Client: Miami Dade Water and Sewer Department | Senior Inspector - Provided Construction Engineering and Inspection (CEI) services for the construction of a new building and rehabilitation of existing facilities including new piping, electrical, duct work, louvers, roof drains and bar screen systems. Also, CE&I of replacement of mechanisms in Secondary Clarifiers. Construction Cost \$3 Billion.



## Marshall Shedio

### Construction Inspector

Mr. Shedio is a Senior Resident Project Representative with twenty-seven years of experience in all phases of construction inspections on residential, commercial, and governmental projects. Responsibilities include: provide overall supervision of project construction ensuring compliance with the contract requirements.

#### Relevant Experience:

#### Professional Registrations

- FDOT Advanced MOT
- FDOT Asphalt Level 1 & 2
- FDOT Earthwork Level 1 & 2
- SFWMD Storm Water Prevention
- CTQP TIN # S300541743380
- FDOT Field Inspector Level 1

#### Years of Experience

- Total: 27; With Firm: 3

**Pump Station A-13 & Sewer Redirection East of Federal Highway** | Fort Lauderdale, Florida | Construction Inspector - This project is for the construction of Lift Station A-13, located at the southeast corner of Southeast 2<sup>nd</sup> Court and Southeast 8<sup>th</sup> Avenue. The project scope included the construction of an 18-inch diameter gravity sanitary sewer system and the connection to an existing active sanitary sewer manhole located at the intersection of Federal Highway and Broward Boulevard to the new lift station.

**South Middle River Force Main Crossing, 16" Redundant Pipe** | Fort Lauderdale, Florida | Construction Inspector - The project involved the installation of 16" nominal OD HDPE Force Main under the South Middle River Waterway, with sections of open cut trench installation of 16" PVC Force Main. The total length of subaqueous crossing of 16" HDPE Force Main is 1092 Linear Feet in length, with an additional 832 Linear Feet of 16" PVC Force Main installed by open cut trench.

#### **Master Lift Station W-14 Upgrade** | Hollywood, Florida | Construction Inspector

The rehabilitation for sanitary sewer Lift Station W14 included the modification of the existing stations by replacing the existing pumps based on a wastewater system analysis performed by Craven Thompson, replacement of internal piping to the station wall including valves and fittings, rehabilitation of the existing concrete floor, walls, ceiling, vaults, wet well, dry well, exterior vault, access hatch and concrete pillars, replace electrical meter and main, replace motor control panels and rewire new pumps, new RTU, new SCADA, rewire and replace branch wiring outlets and fixtures, generator with double wall tank with leak detection, etc.

#### **Lift Station 50B3** | Lauderdale Lakes, Florida | Construction Inspector

The infrastructure improvements to the existing neighborhood included new water and sanitary sewer systems. Also included in improvements was the construction of a new lift station, lift station 50 B3 (on the west side of NW 40<sup>th</sup> Court) owned by Broward County and operated and maintained by Broward County WWS. This is a duplex submersible lift station. The new lift station 50 B3 improvements included construction of an 8' diameter wet well, a new valve pit, internal piping and valves, and a new control panel. Craven Thompson surveyed, designed, permitted, and provided construction engineering and inspection services for the construction of the submersible duplex station including 10 HP AM8434-220 submersible pumps, 10" diameter internal piping, an 8' diameter wet well, valve box, and a control panel. The station was designed to pump 460 gallons per minute at 53 feet of head.

#### **Pines Village Watermain Phase I Post Deign Services** | Pembroke Pines, Florida | Construction Inspector

Mr. Shedio assisted as an inspector the Pines Village Watermain Improvements Phase I. The Pines Village Water Main Improvements Project Phase I consisted of the removal and replacement of the existing water mains within the Phase I limits. These improvements included water main replacement, new water services from main in the roadway to either the existing meter location or the house connection location. This was dependent on whether the water service replacement was back to front or front to front. The project included restoration to pavement as well as swale, driveway, sidewalk, private property, etc.

**Greenacres Sidewalk Improvements** | Greenacres, Florida | Construction Inspector

The primary intent of the project was to connect various segments of sidewalk at locations throughout the City. A roundabout was constructed at the intersection of Swain Boulevard and 2<sup>nd</sup> Street to replace a four-way stop. This work also required adjustment of pavement adjacent to new walks at intersections as well as ADA railing and ramps for walks. Pavement marking and signage of paved areas was included in this work. Additionally, grading of swales and embankments along roadsides and the placement and establishment of new sod in these areas was required along with some minor associated drainage work. Tree removal, curbing, and adjustment of utility structure covers was required to perform this work.

**Plantation Golf Estates Neighborhood Drainage Improvements** | Plantation, Florida | Construction Inspector - Craven Thompson provided surveying, analysis, assessment for repair/replacement of existing storm water management systems, preparation of construction documents and permitting, bidding assistance, and construction services for the Plantation Golf Estates Neighborhood. The neighborhood is 355 acres in size and is bounded by the El Dorado Neighborhood to the southwest, W. Broward Blvd. to the north, the Plantation Park Neighborhood to the east, and W. Broward Boulevard to the south. Improvements included: 1,000 linear feet of swale re-grading, 913 linear feet of storm pipe removal, the installation of 532 linear feet of 15" diameter storm sewer, 352 linear feet of 18" diameter storm sewer, 29 linear feet of 72" diameter storm sewer, the dredging of 4,875 linear feet of existing canal, the installation of 28 of 30" diameter ADS drainage structures. Restoration of the disturbed right-of-way areas was also included.

**Plantation Isles Neighborhood Drainage Improvements** | Plantation, Florida | Construction Inspector - Craven Thompson provided surveying, analysis, assessment for repair/replacement of existing storm water management systems, preparation of construction documents and permitting, bidding assistance, and construction services for the Plantation Isles Neighborhood. The neighborhood is 448 acres in size and is bounded by Peters Road to the north, the Florida Turnpike to the east, Royal Palm Estates to the west, and I-595 to the south. Improvements included: 3,150 linear feet of swale re-grading, 5,359 linear feet of storm sewer removal, removal of 161 storm drainage structures, the installation of 2,217 linear feet of 15" diameter storm sewer, 471 linear feet of 18" diameter storm sewer, 429 linear feet of 24" diameter storm sewer, 576 linear feet of 30" diameter storm sewer, 828 linear feet of 36" diameter storm sewer, 321 linear feet of 42" diameter storm sewer, 101 linear feet of 48" diameter storm sewer, 116 linear feet of 72" diameter storm sewer the removal and replacement of 5 outfalls, and the installation of 160 – 30" diameter ADS drainage structures. The project also included C.I.P.P. lining of: 1,213 linear feet of 12" diameter storm sewer, 3,488 linear feet of 15" diameter storm sewer, 1,839 linear feet of 18" diameter storm sewer, 487 linear feet of 21" diameter storm sewer, 1,540 linear feet of 24" diameter storm sewer, 244 linear feet of 30" diameter storm sewer, 482 linear feet of 42" diameter storm sewer, and pipe bursting consisting of: 93 linear feet of 12" diameter pipe with 15" pipe, 56 linear feet of 15" diameter pipe with 18" pipe, and 166 linear feet of 21" diameter pipe with 24" pipe. Restoration of the disturbed right-of-way areas was also included.



## Rasiel Lopez

Senior Construction Inspector

Responsibilities included Review, document and oversee contractor activities, specializing in sanitary sewer force main and collection system installation, water main installation, Drainage pipe and drainage structure installation, as well as reclaimed water main installation. Prepared Daily reports indicating compliance or non-compliance with contract documents and/or Specifications. Conducted inspections / testing for manholes and water main (pressure test, Exfiltration / infiltration tests). Prepared punch lists indicating deviations from approved plans and conducted final walk-through inspections with client and contractor/ sub-contractor.

### Years of Experience

- Total: 25; With Firm: 13

### Registrations / Certifications

- MOT Intermediate Certified
- Troxler Nuclear Safety Gauge Certified
- Asphalt Paving Level I Certified
- Earthwork Level I Certified
- CTQP Trained for the Following Certifications:
  - Asphalt Paving Level II
  - Earthwork Level II
  - FDOT Concrete Field Tech
  - Final Estimates I and II
  - MDC: Fire and Building
  - Safety Codes
- OSHA 10hr Certified
- Stormwater Management Inspector

### Relevant Experience

**Eastside Master Infrastructure Project, Phases 2 & 3** | Davie Florida | Construction Inspector for the project which consisted of approximately 340 acres of infrastructure rehabilitation. The basic infrastructure work consists of watermain, sanitary sewer, and storm sewer. The drainage/roadway work consists of: 22,763 linear feet of roadway reconstruction; 41,000 square yards of swale regrading; 18,940 linear feet of storm sewer; 12,450 square yards of sidewalk; 7,400 square yards of driveway restoration; 146 storm structures; 3 outfalls; 1 control structure. The water distribution included: 14,800 linear feet of 6" diameter main; 5,075 linear feet of 8" diameter main; and 5,140 linear feet of 12" diameter main; abandon and grout 11,450 linear feet of existing watermain in place; 50 fire hydrants; 154 gate valves; 40,400 linear feet of water service piping on private property. The sanitary improvements included: 11,455 linear feet of 8" diameter pipe; 40 sanitary manholes; and 2,945 linear feet of 16" diameter forcemain.

**River Oaks Neighborhood Drainage Improvements** | Fort Lauderdale, Florida | Construction Inspector. Improvements included: 12,677 linear feet of swale re-grading, 5,346 linear feet of storm pipe removal, removal of 251 storm structures, the installation of 90 linear feet of 15" storm sewer, 4,374 linear feet of 18" storm sewer, 4,675 linear feet of 24" storm sewer, 1,771 linear feet of 36" storm sewer, 145 linear feet of 48" storm sewer, 3,129 linear feet of 66" storm sewer, 1,056 linear feet of 72" storm sewer, 2,640 linear feet of 24" exfiltration trench, 236 drainage structures, two STORMCEPTER water quality structures, one TIDEFLEX backflow prevention valve, and 4,219 linear feet of sidewalk. The project also included one small duplex stormwater pump station, and one large stormwater pump station.

**Pump Station A-13 & Sewer Redirection East of Federal Highway** | Fort Lauderdale, Florida | Construction Inspector. This project is for the construction of Lift Station A-13, located at the southeast corner of Southeast 2<sup>nd</sup> Court and Southeast 8<sup>th</sup> Avenue. The project scope included the construction of an 18-inch diameter gravity sanitary sewer system and the connection to an existing active sanitary sewer manhole located at the intersection of Federal Highway and Broward Boulevard to the new lift station.

**Master Lift Station W-14 Upgrade** | Hollywood, Florida | Construction Inspector

The project involved the replacement of internal piping to the station wall including valves and fittings, rehabilitation of the existing concrete floor, walls, ceiling, vaults, wet well, dry well, exterior vault, access hatch and concrete pillars, replace electrical meter and main, and replacement of motor control panels.



**Utility Analysis Zone Improvement Program (UAZ) 122** | Broward County, Florida | Senior Construction Inspector - UAZ 122 is a one hundred and sixty (160) acre area bounded by the SFWMD C-13 Canal to the north, NW 47<sup>th</sup> Avenue to the east, West Oakland Park Boulevard to the south and the Florida Turnpike to the west in the City of Lauderdale Lakes, Florida. The project included the construction of a sanitary sewer collection system consisting of: 19,345 linear feet of 8" gravity main; 1,350 linear feet of 10" gravity main; 4,800 linear feet of 8" force main; and 105 service laterals. The water distribution system improvements included: 11,190 linear feet of 6" main; 10,875 linear feet of 8" main; 5,205 linear feet of 10" main; 3,690 linear feet of 12" main; 630 linear feet of 16" main; abandonment and grouting of 25,435 linear feet of existing watermain; and the construction of 66 water services. In addition, 30,600 linear feet of roadway reconstruction along with right-of-way restoration. Craven Thompson is modeling the systems using SewerCAD and WaterCAD as well as creating the construction documents, permitting, assisting with bidding and CEI services for the infrastructure rehabilitation projects.

**Utility Analysis Zone Improvement Program (UAZ) 308** | Broward County, Florida | Senior Construction Inspector - The UAZ 308 project encompasses approximately 125 acres in the City of Dania Beach and is located south of Griffin Road, west of Anglers Avenue, east of SW 30<sup>th</sup> Avenue, and north of SW 53<sup>rd</sup> Court. Craven Thompson designed, permitted, and provided CEI services for the construction of over 28,700 linear feet of water main, 219 water services (many services were relocated from the rear to the front of the lots), 54 fire hydrants, 103 gate valves, 16,946 linear feet of grouting & abandon in place watermain, 9,000 linear feet of water service pipe on private property, 20,300 linear feet of gravity sewer main, 340 sewer laterals, and 1,270 linear feet of force main. Main line pipe sizes ranged from 6" to 10" in diameter. The project also included 50,000 SY of new roadway construction, sidewalks, driveway aprons, and sodded swales.

**Utility Analysis Zone Improvement Program (UAZ) 108** | Broward County, Florida | Construction Inspector - UAZ 108, a two hundred and twenty (220) acre area, is bounded by NW 44<sup>th</sup> Street to the north, NW 31<sup>st</sup> Avenue to the east, the SFWMD C-13 Canal to the south, and State Road 7 to the west in the City of Lauderdale Lakes, Florida. The project includes the construction of a sanitary sewer collection system consisting of 26,875 linear feet of 8" gravity main, 1,395 linear feet of 10" gravity main, 2,790 linear feet of 12" gravity main, 1,530 linear feet of 6" force main, 3,630 linear feet of 8" force main, 1,350 linear feet of 10" force main, 1,140 linear feet of 16" force main, and 452 service laterals. The water distribution system improvements included 24,560 linear feet of 6" main, 8,450 linear feet of 8" main, 6,300 linear feet of 10" main, 975 linear feet of 12" main, 150 linear feet of 16" main, 1,425 linear feet of 20" main, the abandonment and grouting of 35,575 linear feet of existing watermain, and the construction of 441 water services. In addition, 36,000 linear feet of roadway reconstruction along with right-of-way restoration.

**Pines Village Watermain Phase I Post Design Services** | Pembroke Pines, Florida | Construction Inspector - Mr. Lopez was the construction inspector for this project. Craven Thompson provided post design services (CEI) for the Pines Village Watermain Improvements Phase I. This project consisted of the removal and replacement of the existing water mains within the Phase I limits. These improvements include water main replacement, new water services from main in the roadway to either the existing meter location or the house connection location. This is dependent on whether the water service replacement is back to front or front to front. The project includes restoration to pavement as well as swale, driveway, sidewalk, private property, etc.



## Scott Peavler, P.L.A.

Lead Landscape Architect

Mr. Peavler's responsibilities include site planning, landscape and hardscape design, tree removal and relocation plans in AutoCAD and presentation graphics, utilizing knowledge of local and state regulations involved in land development on a range of projects. Coordinating with Clients, City officials, and other consultants to obtain project input and approvals.

### Professional Registrations

- Professional Landscape Architect, State of Florida No. LA66669976 (2008)

### Education + Training

- Bachelors of Landscape Architecture, Kansas State University (2005)

### Years of Experience

- Total: 19; With Firm: 15

### Relevant Experience

**NE 14<sup>th</sup> Avenue Streetscape Improvements** | Hallandale Beach, Florida | Landscape Architect - Mr. Peavler assisted in the Landscape/streetscape design for the NE 14<sup>th</sup> Avenue Streetscape Improvements. The project corridor is approximately 3,400 linear feet. The project includes: Mill and overlay entire roadway (including pavement markings); on east side of NE 14<sup>th</sup> Avenue, mill and overlay off-street parking (including pavement markings) and provide new Type 'D' curbed landscape bulb-outs to delineate parallel parking and include canopy trees, shrubs, groundcover and spray and drip irrigation; bike lanes on both sides of roadway; curbing or other treatments at existing driveway entrances; canopy trees with ground cover intermingled and drip irrigation on the west side of NE 14<sup>th</sup> Avenue; landscape screening adjacent to two (2) stormwater pump stations.

**Miramar Historical Area Complete Streets Project, Phase II** | Miramar, Florida | Lead Landscape Architect  
Craven Thompson was selected by the City of Miramar to survey, design, permit, and provide construction services for Phase II of their Historical Area Complete Streets Project. The project includes surveying, landscape and engineering design, permitting and construction services for complete streets bounded by Pembroke Road to the north, County Line Road to the south, SW 62<sup>nd</sup> Avenue to the west, and State Road 7 to the east. The project includes six (6) streets in the Historical Area. The improvements include: sidewalks, ADA ramps, crosswalks, pedestrian level lighting, landscaping and hardscape. The city received a grant through the Broward Redevelopment Program for the improvements.

### The Township Buffer | Coconut Creek, Florida | Project Manager

The Township Buffer Restoration project is a 5-year multi-phase project to reestablish and improve The Township's buffers along the main arterial roadways in the City, as well as the major internal neighborhood roads within The Township. Along with the prepared construction documents, the design project included a comprehensive set of guidelines to provide direction for the buffer restoration, which was developed through coordination with City Staff and The Township.

### Landscape Peer Plan Review | Coconut Creek, Florida | Review Landscape Architect

Mr. Peavler serves as reviewer of all DRC submittals on behalf of the city which include landscape and hardscape elements.

### Vista View Park Splashpad | Broward County, Florida | Landscape Architect

Craven Thompson & Associates provided professional consulting landscape architectural services for the design of a splash pad at Vista View Park. Craven Thompson was a sub-consultant to Thompson & Associates under a contract with Broward County Parks and Recreation.

### Davie CRA SW 41<sup>st</sup> Place Parking Lot Improvements | Davie, Florida | Landscape Architect

Provided landscape services which included landscape design, and preparation of construction documents for the CRA Parking Lot located behind the businesses on Davie Road, including landscaping, irrigation, and pervious pavement improvements.



**Jaco Pastorius Park Expansion, Gateway & Fountain** | Oakland Park, Florida | Landscape Architect  
This project involved the expansion of the park to include a green parking field and infrastructure upgrades for a community garden and City festivals. The expansion included the implementation of a grass parking lot that will be used for overflow parking during the City's annual festivals that are held at Jaco Pastorius Park. Parking, fencing, sidewalk connections, and park signage were provided for the community garden / farming facilities located at the park.

**Mailman Segal Center Playground** | Davie, Florida | Project Manager | Landscape Architect  
Craven Thompson prepared a design for the Mailman Segal Center which is a preschool and early development center. The playground design is based on an open play theme with a focus on nature and organic materials. Without prescribed play/climbing equipment the series of activities revolve around a weaving path, interactive stream bed, & artistic natural play. The site design combines existing and proposed plants with an open concept that allows for the movement and change of activities to meet the needs of the school. Gardening, nature, & imaginative activity was the primary theme of this playground design.

**Davie Westend Firefighters Park** | Davie, Florida | Project Manager | Landscape Architect  
The park is a memorial firefighter park / playground. It is a passive park associated with the drainage that includes a small playground with rubber surfacing, a fire fighters cross paver medallion, and a memorial tree for a previous fire chief of the Town. There is also a pedestrian path that runs the length of the park with a future connection to a greenway system in the Town. Craven Thompson provided landscape services for the Town of Davie CRA that included the implementation of a passive park / retention area, playground area, parking lot, paved walkways, and landscape areas.

**Sunrise Sportsplex** | Sunrise, Florida | Project Manager | Landscape Architect  
Mr. Peavler was the Project Manager for Sportsplex which included: Four Baseball / Softball Fields, Two Soccer fields or One (1) Full Size Multi-Use Soccer / Football Field, hard covered dugouts, Bleachers with cantilevered shade canopies, Centralized two-story concession, restroom, meeting space and scorer's building, restroom / maintenance building for the Soccer Fields, two playgrounds with shade, structures, sports lighting for all fields, batting cages, Two parking lots with entry signage, southbound right turn lane on Pine Island Road, pedestrian connections to West Pine Middle School for shared use facilities agreement.

**Hallandale Beach Boulevard Median Improvements** | Hallandale Beach, Florida | Landscape Architect  
This project included tree relocation, new landscaping & irrigation while coordinating between the City and the Florida Department of Transportation (FDOT).

**Swain Boulevard Complete Streets Project** | Greenacres, Florida | Lead Landscape Architect  
Mr. Peavler was designed and permitted complete street elements, landscaping & hardscape for the Swain Boulevard Complete Streets Project. This project is a 4,500 linear foot project running from Lake Worth Road to 10<sup>th</sup> Avenue North. The project included bicycle lanes of both sides of the street, sidewalks, parallel parking, landscape, hardscape and drainage. It also included traffic circles at 1<sup>st</sup> Street, and 4<sup>th</sup> Street.

**Powerline Road Median Improvements** | Oakland Park, Florida | Landscape Architect  
This project included tree relocation, new landscaping & irrigation while coordinating between the City and the Florida Department of Transportation (FDOT). Craven Thompson assisted the City with submitting for and obtaining the Florida Highway Beautification Council Grant which funded \$100,000 of the construction costs.

**Bluesten Park** | Hallandale Beach, Florida | Landscape Architect - Design and construction of a 42,000 square foot recreation center with pool and splash play area, soccer/multi-use field, three (3) baseball fields, three (3) basketball courts, two (2) tennis courts, two (2) racquetball courts, boundless ADA inclusive playground, walking trails and pavilions; and full promenade streetscape design for surrounding streets for pedestrian friendly corridors and parallel parking.



## Nicole Pastre, P.L.A.

Landscape Architect

Ms. Pastre's responsibilities include site planning, landscape and hardscape design, tree removal and relocation plans in AutoCAD and presentation graphics, utilizing knowledge of local and state regulations involved in land development on a range of projects. Coordinating with Clients, City officials, and other consultants to obtain project input and approvals. Has direct client contact. Preparation of color renderings of landscape plans for presentations.

### Professional Registrations

- Professional Landscape Architect, State of Florida No. LA6667397 (2018)

### Education + Training

- Bachelors of Landscape Architecture, University of California, Davis (2005)

### Years of Experience

- Total: 18; With Firm: 4

### Relevant Experience

**Monarch Lakes Park, Phase II** | Miramar, Florida | Project Landscape Architect - Project consists of a custom splash pad design, picnic shelter addition and parking lot expansion for an existing park for the City of Miramar. Landscape architectural services include site planning, hardscape and splash pad design, landscape design and code compliance.

**Crescent Creek Homeowner's Association, Landscape Buffer Improvements** | Coconut Creek, Florida | Landscape Architect - Project consists of improving the streetscape and landscape buffer along the front of an existing single-family development by implementing additional trees, palms, accent plantings and shrub beds along the street for beautification and code compliance.

**Mara Berman Giulianti Park** | Hollywood, Florida | Landscape Architect - Redesign and update of a popular community park and playground in the City of Hollywood to incorporate amenities such as a new, accessible playground, a walking/jogging trail, a splash pad, a new picnic shelter and potential dog park.

**City of Pompano Beach Streetscape Improvements** | Pompano Beach, Florida | Landscape Architect Project entailed beautification, increasing walkability and safety along two busy streets in Pompano Beach, NE 33<sup>rd</sup> Street and East McNab Road. Provided tree protection and disposition plans, landscape design and irrigation design, including permitting through the City. Worked closely with the City Project Manager and the City Urban Forester to develop project design intent and obtain site plan approval.

**Stunson Nature Trail Viewing Platform** | Oakland Park, Florida | Landscape Architect Developed construction documents for the installation of a wooden viewing platform and boardwalk within the Stunson Nature Trail Park. Project included landscape design, hardscape design and details for the platform and boardwalk system.

**Indian Creek Greenway Project** | Miami Beach, Florida | Landscape Architect

The project includes the restoration and enhancement of the landscape buffer with the introduction of a diverse, low-maintenance, tropical, Florida Friendly, naturalized, and native plant pallet that encourages the return of the area's natural fauna, and promotes the ecology of the waterway for the benefit of the general public. We included a continuous pedestrian connection from the 41<sup>st</sup> Street bridge southward to the 29<sup>th</sup> Street pedestrian bridge and onward to form a connection at 25<sup>th</sup> Street and Collins Avenue. The plan restores vegetation to buffer noise and light pollution and to increase privacy for the residents of the Flamingo Dr. Neighborhood

**Sawgrass Village I Homeowner's Association, Tree Replacement** | Coconut Creek, Florida | Landscape Architect. Existing street trees had outgrown their space in this housing community. Project consists of replacing the overgrown and sometimes hazardous trees with more appropriate species, including the development of an overall master street tree plan for future replacements.

**Sawgrass WWTP Irrigation Design** | Sunrise, Florida | Landscape Architect

Ms. Pastre prepared irrigation plans and specifications for the Wastewater Treatment Plant.

**SW 48<sup>th</sup> Avenue Complete Streets Project** | West Park, Florida | Project Landscape Architect

The project involves approximately 7,600 linear feet of right-of-way (not including Mary Saunders Park). Improvements that may be included are as follows: paving (milling & resurfacing and reconstruction), complete street elements, such as textured pavement, raised crosswalks, raised intersections, and speed lumps, ADA compliant sidewalks, bicycle lanes, street trees, landscaping, limited irrigation, signage, drainage and pavement marking & signage. This is a Broward County Surtax Project.

**Plantation Landscape Peer Plan Review** | Plantation, Florida - Review Landscape Architect

Ms. Pastre provides landscape consulting services in regards to Landscape plan reviews for the City of Plantation. The services provided include full landscape reviews, Tree Removal/ Relocation reviews, and other additional landscape matters as they pertain to City landscape codes.

**Miramar Parkway & Blvd. Median Enhancement** | Miramar, Florida | Landscape Architect

The project is along Miramar Parkway from the Florida Turnpike to Palm Avenue and along Miramar Boulevard from University Drive to Palm Avenue. The project includes landscaping and hardscape for two main thoroughfares through the City of Miramar. The medians lack aesthetic appeal and require various beautification enhancements. This is Phase I of a multi-phased project

**Florida's Turnpike - Glades to Atlantic Widening** | Palm Beach County, Florida | Landscape Architect

Provided landscape architectural services for the widening of a 6-mile portion of Florida's Turnpike. Services included analysis and development of a Tree Removal Plan, Landscape Opportunities Plan and Construction Documents.

**Sunrise City Center** | Sunrise, Florida | Landscape Architect

Provided site design services for the new Sunrise City Hall complex, including hardscape, landscape and irrigation design. Project included a new plaza space, public art, parking garage and amphitheater design. Prepared conceptual design renderings and construction documents and assisted with permitting through the City of Sunrise and Broward County. Worked in conjunction with the City Project Manager and the Architect, including plan processing and meeting with the City Urban Forester.

**Gulfstream Village** | Hallandale Beach, Florida | Landscape Architect

Project included the redevelopment of the restaurant and retail portion of Gulfstream Village, including conversion of streets into curb-less, pedestrian friendly thoroughfares, passive plaza spaces with integrated art and other activities, outdoor restaurant and bar space, fountains and family-friendly play areas. Services included hardscape, landscape and irrigation design, including the preparation of conceptual renderings and construction documents. Assisted with permitting through the City of Hallandale Beach and Broward County, as well as plan processing.

**Gables Station** | Coral Gables, Florida | Landscape Architect

Large scale, multi-use commercial and residential project in Coral Gables. Services included site and common area design, multi-use trail and greenway planning (the City of Miami Underline project, in conjunction with the City's Master Plan and the Friends of the Underline), development of full landscape plans for ground level and amenity levels, irrigation plans, tree relocation plans and extensive permitting through the City of Coral Gables, Miami-Dade County Department of Transportation and FDOT. Helped oversee the plan submittal and processing for site plan approval through building permit, through the various agencies/municipalities mentioned as well as stakeholder groups. Project is currently under construction and seeking LEED Gold certification.



## Erik W. Schofield, P.L.A.

Landscape Architect

Mr. Schofield's responsibilities involve management of multiple projects and ensuring deliverables are completed in a timely fashion to meet expected project deadlines. Erik is involved in all project phases from schematic design, entitlements, construction documentation / permit, and construction administration.

### Relevant Experience

**Solterra** | Sunrise, Florida | Landscape Architect - Presently providing Landscape Architectural services for a 160-acre master planned residential community on a former golf course in the City of Sunrise.

**Westerra** | Sunrise, Florida | Landscape Architect - Presently providing Landscape Architectural services for an 11-acre master planned mixed use development located in the City of Sunrise. This project includes a proposed air training facility and an 8-story hotel as part of Phase 1.

**Davie Rodeo** | Davie, Florida | Landscape Architect - Presently providing Landscape Architectural services for a six-story mixed-use multifamily development proposed on two adjacent sites totaling 4 acres in the Town of Davie.

**Casa Palma** | Coconut Creek, Florida | Landscape Architect  
Provided landscape architectural services for a 25-acre high-end apartment community in the City of Coconut Creek, Florida. Managed project from schematic design through construction completion.

### Professional Registrations

- Professional Landscape Architect, State of Florida No. LA66667682 (2023)

### Education + Training

- Bachelor of Landscape Architecture, University of Florida (2002)

### Years of Experience

- Total: 24; With Firm: 1

### Affiliations

- American Society of Landscape Architects
- United States Building Council Leadership in Energy and Environmental Design (LEED)

### Residences at Plantation | Plantation, Florida | Landscape Architect

Provided landscape architectural services for a mixed-use development on a 5-acre site consisting of a six-story residential tower and bank proposed in the City of Plantation, Florida. Managed project from schematic design through construction completion.

### The Collection at Vanderbilt | Naples, Florida | Landscape Architect

Provided landscape architectural services for a large high-end retail commercial development in Naples, Florida. Managed project from schematic design through construction completion.

### London Square | Miami, Florida | Landscape Architect

Provided landscape architectural services for a large commercial development in Miami, Florida. Managed project from schematic design through construction completion.

### Monarc at Met 3 | Miami, Florida | Landscape Architect

Provided landscape architectural services for a mixed use residential high-rise apartment tower in Miami, Florida. Managed project from schematic design through construction completion.

### Luzano Apartments | Pompano Beach, Florida | Landscape Architect

Provided landscape architectural services for a 28-acre apartment community in the City of Pompano Beach, Florida. Managed project from schematic design through construction completion.

### The Pearl at Dadeland | Miami, Florida | Landscape Architect

Provided landscape architectural services for a high-end mid-rise apartment building in Miami, Florida. Managed project from schematic design through construction completion.

### Mariner's Club | Key Largo, Florida | Landscape Architect

Provided landscape architectural services for a luxury multi-family resort-style residential development in Key Largo, Florida. Managed project from schematic design through construction completion.



## Nathan A. Raimondo

Landscape Designer

Mr. Raimondo has operated as project manager to oversee and contribute to production work of construction documents and deliverables. Conducted tree surveys using GPS handheld data equipment, as well as tree sampling and inventory. Coordinated with clients and municipal reviewers to ensure designs were in compliance with local regulations and zoning conditions.

Key contributor in specialized projects with the Defense Logistics Agency Fire Protection Group. These contributions ranged from significant on-site field project mapping exercises. This field work provided the critical data used to develop floor plans and three-dimensional models of various military facilities and structures.

### Education + Training

- Bachelor Degree in Landscape Architecture, University of Georgia, College of Environment & Design, Athens, GA (May 2011)
- HOPE Scholarship Recipient: 2006 - 2010, University of Georgia, College of Environment & Design, Athens, GA (2006-2010)

### Years of Experience

- Total: 12; With Firm: 2

### Computer Skills

- AutoCAD, LandFX, Revit, Sketchup, Adobe Photoshop/InDesign, Microsoft Word, Excel, PowerPoint

### Relevant Experience

#### Shotgun Road Subdivision | Davie, Florida | Landscape Designer

Designed tree protection plans and full landscape construction document packages for a 151 single family home development. Amenities include a multi-use path with bench seating, horse trails, a playground, and decorative landscaped berms along the entry drive.

#### Golden Shores Urban Trail | Sunny Isles Beach, Florida | Landscape Designer

Conducted on-site tree inventory and analysis to aide in the design of a multi-use urban trail. Construction details included a concrete path with trail markings, a decorative pedestrian crosswalk, and wooden privacy fencing.

#### Aviara West | Pompano Beach, Florida | Landscape Designer

Assisted with the design and development of tree protection, landscape, and site plans for a multi-family residential community. Amenities included a walking trail, pool deck with hot tub, and a dog park. CPTED (Crime Prevention Through Environmental Design) Plans were also developed to ensure safety, security, and proper maintenance of the site.

#### Sunset Strip Passive Park | Sunrise, Florida | Landscape Designer

Facilitated in the design of tree disposition, hardscape and landscape plans, as well as the development of construction documents for a residential passive park. Site amenities included a looping walking trail with bench seating, bike racks and bike repair station, decorative fencing with entry gates, and entry monument sign. Coordinated with Florida Power & Light to ensure access to overhead powerlines and additional utilities.

#### NSU Soccer Stadium Improvement Plans | Davie, Florida | Landscape Designer

Coordinated with the civil engineering team to provide site improvement plans to upgrade the former Miami Dolphins training facility to a women's professional soccer field. Improvements included building renovations with outdoor open plaza, bleacher seating to accommodate 5,000 attendees, portable concession area, additional sidewalks to improve pedestrian circulation, and access to event spaces.

#### Monterra Phase II | Cooper City, Florida | Landscape Designer

Responsible for conducting site visits to verify tree inventory, analysis, and boundary tree impacts for the development of a self-storage commercial center. Coordinated with architects, civil, and electrical engineers to develop site and full landscape plan documents.

#### BP 595 Logistics Center | Davie, Florida | Landscape Designer

Provided illustrative renderings, tree protection and relocation plans, as well as full landscape plans for the redevelopment of a catering/ event facility to a warehouse/ distribution center. Collaborated with municipal reviewers to provide plans that meet and exceed local code requirements.



## Richard Crawford, P.S.M.

Lead Land Surveyor

Mr. Crawford has over thirty-nine years of experience within the surveying industry. During this time, his experience has grown to include all types of surveys. Richard is well trained and proficient in the processing of survey data collection from a variety of data collection devices, such as GPS, Digital Leveling, and Conventional Total Stations.

### Relevant Experience

#### Professional Registrations

- State of Florida Professional Surveyor and Mapper No. LS5371
- FAA Remote Pilot with a UAS Rating Certificate No. 3911523 (2016)

#### Education

- Associates of Science in Land Surveying, Palm Beach Community College (1994)
- Associates of Arts in Architecture, Broward College (1986)

#### Years of Experience

- Total: 39; With Firm: 3

#### Affiliations

- Florida Society of Professional Surveyors and Mappers

**Sanitary Sewer Mapping & GIS, Control Surveying** | Fort Lauderdale | Principal Survey Project Manager - Responsible for establishing Primary and Secondary Vertical Control with over 3,000 new benchmarks for Sanitary Sewer Mapping of the City, including As-built/Inventory 5,917 Sanitary Manholes, 190 pump Stations, 15 meters, and 80 miles of force mains and their associated valves.

**Florida Department of Transportation (FDOT), District 4 and District 6, Districtwide Miscellaneous Services Contract-South Florida** - Project Surveyor. Supervised a wide variety of land surveying assignments throughout Southeast Florida region as a Project Surveyor in responsible charge. Utilized GNSS, and conventional land surveying techniques to perform digital terrain modeling, subsurface utility locations (SUE), boundary determinations, sewage infrastructure analysis, bridge details, control surveys, and right-of-way establishment.

**City of Fort Lauderdale GIS and Surveying for Storm Water Master Plan** | Fort Lauderdale, Florida | Project Surveyor. Responsible for directing survey data collection, GIS analysis, and assisting others team members. Provided oversight for field data acquisition of storm water infrastructure attributes needed to populate an existing GIS Database.

**Dania Pointe** | Dania Beach, Florida | Project Surveyor

Construction of 101+ acres of infrastructure, roadways and buildings, retail and residential, as-builts of the same. Project cost - \$1 Billion.

**Broward County UAZ 110/111 & 113 Water Sewer Improvements 113B** | Lauderhill, Florida

Project Surveyor/Field Coordinator. Mapping, Field Coordination, Survey Data Processing. Responsible for establishing Primary and Secondary Vertical Control for Drone Mapping including flying, and processing drone data.

**Citywide Benchmarks** | City of Pompano Beach, Florida | Principal Survey Project Manager

Responsible for establishing Primary and Secondary Vertical First Order Control to establish new city benchmarks to support a Storm Drainage Study.

**Potable Water System GIS, & Surveying** | Fort Lauderdale | Craven Thompson is the prime consultant for the Water Consent Order Mapping project, City Project No. 12729. The Project consists of accurately remapping the City's Water System and correcting the City's GIS. The Project includes 750+ miles of water mains 4" and larger, 19,000+ valves, 6,200 fire hydrants, 250 air release valves, and 62,600 meters.

**Broward County Convention Center Expansion & Hotel** | Broward County, Florida

Project Surveyor/Field Coordinator. Mapping, Field Coordination, Survey Data Processing This project involves a 525,000 square foot expansion to the Convention Center representing the first phase of a multi-phase masterplan. In addition to the Convention Center, the County intends to include construction of a hotel and related site improvements with the 40-acre parcel.



## Raymond Young, P.S.M.

Land Surveyor

Mr. Young has forty-three years of experience surveying in South Florida. He has performed both field and office work on a variety of projects both large and small. He is experienced in all aspects of surveying including boundary, topographic, construction layout, ALTA mortgage, as-built, control and location surveys.

### Professional Registrations

- State of Florida  
Professional Surveyor  
and Mapper No. LS5799

### Affiliations

- Florida Society of  
Professional Surveyors  
and Mappers

### Years of Experience

- Total: 43; With Firm: 31

### Relevant Experience:

**Fort Lauderdale Potable Water GIS & Surveying** | City of Fort Lauderdale, Florida | Project Surveyor/GIS - The Project consists of accurately remapping the City's Water System and correcting the City's GIS. The Project includes 750+ miles of water mains 4" and larger, 19,000+ valves, 6,200 fire hydrants, 250 air release valves, and 62,600 meters. Craven Thompson subcontracted with 10 different Survey firms to accomplish this project

**L-12 Canal ROW Annexation Easement Sketch & Legal Description** | Greenacres, Florida | Land Surveyor - Assisted in the preparation of a sketch and description for a portion of the LWDD L-12 canal right of way between Raulerson Drive and Military trail as part of the effort to annex the property. This task included preparing the sketch and description and calculating the area of the property description.

### **Prospect Road Plaza Boundary & Topographic Survey** | Oakland Park, Florida | Land Surveyor

Mr. Young prepared a boundary and topographic survey of the above property, based on a legal description provided by the City of Oakland Park. The survey consists of the two (2) separate undesignated tracts of land approximately 1.5 acres each, being contiguous with and lying south of North Andrews Gardens.

### **Fire Station 87 Boundary & Topographic Survey** | Oakland Park, Florida | Land Surveyor

Craven Thompson performed a Boundary & Topographic Survey for the City of Oakland Park on the Fire Station 87 site. This included setting and/or recovering boundary monumentation, and the location of all aboveground visible improvements including buildings, pavement, walkways, slabs, fences, utilities, trees, and signs, locating of all aboveground and visible utilities features on, or immediately adjacent to the site, including trees (4" diameter at breast height), and topography including spot elevations on the site on an approximate one hundred (100) foot grid around the property.

### **Hydrographic and Stormwater Infrastructure Survey** | Greenacres, Florida | Surveyor

Along with our sub-consultant, we created a survey from high-resolution, low-level LiDAR and ground surveying. The survey included roadways and canal cross-sections for proposed drainage improvements. Also, included Right-of-way surveys, storm drains, canals and ditches along 1<sup>st</sup> Street in the Original Section area of the City of Greenacres and a portion of Lake Worth Canal E-3 (cross sectioned).

### **As-Built Survey of Security Gate** | Southwest Ranches, Florida | Land Surveyor

Craven Thompson & Associates prepared an as-built survey of a portion of the boundary of the Town of Southwest Ranches, along SW 207<sup>th</sup> Terrace and SW 54<sup>th</sup> Place. The purpose of this survey was to determine the relationship of the security gate operating equipment, to the dedicated right-of-way for SW 207<sup>th</sup> Terrace, and the location of the existing guardrail, and its relationship to the dedicated right-of-way for SW 54<sup>th</sup> Place.

**Master Lift Station W-14 As-Built Survey** | Hollywood, Florida | Surveyor - Craven Thompson obtained field survey information and prepared an as-built survey for the existing sewage Lift Station W14 using the 3D Laser Scanner. The survey information included detailed dimensions on pipes, pumps, panels, tanks, etc.



**Seminole Hollywood Reservation Stormwater Data Collection/GIS** | Hollywood, Florida | Surveyor - The Hollywood Seminole Reservation is generally bounded by Stirling Rd. on the north and by Sheridan St. on the south and includes the Hard Rock Hotel and Casino which is located north of Stirling Rd. CTA updated the Tribe's stormwater GIS information through entering as-built data, and surveying the hundreds of stormwater/drainage structures located on the reservation. CTA acquired accurate horizontal and vertical information on every stormwater/drainage feature on the Tribe's Hollywood Reservation. We reviewed existing storm sewer surveys and as-builts that could assist with GIS location and with this information our survey crew measured each structure to get accurate horizontal and vertical information for the Tribe's GIS system. During the data collection phase, the GPS locations of structures, canals, retention areas and ditches were captured with X-Y-Z coordinate values in the data collector. In addition, details such as pipe sizes, material, inverts, weirs, and structure condition were obtained in the field.

**South Regional WWTP Topographic Survey** | Hollywood, Florida | Land Surveyor  
Craven Thompson prepared a topographic survey of a portion of the South Regional Wastewater Treatment Plant lying north of Arthur Street and east of North 14<sup>th</sup> Avenue in the City of Hollywood. The topographic survey met all of the current surveying requirements of the Board of Professional Surveyors and Mappers of the State of Florida, in Chapter 5J-17 of the Florida Administrative Code and included the recovery of previously set control points to the north, to be used to set control points on the subject site. The control points were used for the site improvement locations listed for the following; the location of all above-ground visible improvements (i.e. buildings, pavement, striping, slabs, fences, and utility features) within the site boundaries; spot topographic elevations were collected within the site boundaries sufficient for engineering design; and trees with a trunk diameter of 3" or greater at breast height were located and plotted on the survey drawing and included in a tree list detailing the tree type and size.

**Fire Station 9 Boundary Survey** | Oakland Park, Florida | Land Surveyor  
Craven Thompson prepared a boundary survey of the east portion of the Stevens Park site which was proposed as the location for the Fire Station No. 9 site. The boundary survey included recovery of adjacent right-of-way and parcel monumentation to be able to accurately set the parcel boundary lines and the setting of all property corners for the site. The boundary survey meets current surveying requirements of the Board of Professional Surveyors and Mappers of the State of Florida, as outlined in Chapter 5J-17 of the Florida Administrative Code. This survey included the review of the title commitment, with copies of all exceptions, and plotting of encumbrances (easements, etc.). This survey was provided in hard copy format and AutoCAD Civil 3D 2019, for design purposes.

**Fort Lauderdale Stormwater Master Plan & Surveying** | Fort Lauderdale, Florida | Land Surveyor  
The survey limits of this project are described as the entire City limits of Fort Lauderdale. The city was flown with high density aerial LiDAR to a vertical accuracy of 0.15 feet across the entire City. From the LiDAR, Craven Thompson created a 2-foot grid Digital Elevation Model of the ground for modeling drainage flow. This required a GPS Control Network, and 309 ground control for the flight, performed over 5,000 verification shots on hard surfaces at major roadways across the city. The second part of this survey was to collect and evaluate 5,400 storm structures with Rims, Inverts, Pipe Size, material, and research As-built records of the city in the Stormwater system and provide the data to the City in ArcGIS Geodatabase conforming to their GIS Model Schema.



## David Reyes

### Senior Survey Technician & GIS Specialist

Mr. Reyes has significant surveying and mapping experience in Florida. He has extensive private and public sector project experience including design, construction engineering inspection (CEI), construction, global positioning systems (GPS), geographic information systems (GIS), right-of-way control. In addition, he has extensive knowledge of digital terrain modeling and has prepared numerous digital terrain models used in engineering design for quantity calculations.

#### Registrations / Certifications

- Certified Survey Technician Level III, Florida (2003)
- FDOT Maintenance of Traffic, Florida

#### Continuing Education

- FDOT Intermediate Work Zone Traffic Control Refresher (2005)

#### Years of Experience

- Total: 34; With Firm: 10

#### Affiliations

- Member, CAICE Users Group
- Member, Florida GPS Users Group
- Member, Florida Local Users Group
- MicroStation Community
- Secretary, Florida Surveying & Mapping Society, Broward Chapter (2004)

#### FDOT Work Type Codes

- 8.1 Control Surveying
- 8.2 Design, Right-of-Way Construction Survey
- 8.4 Right-of-Way Surveying

#### Relevant Experience

**Lake Worth Beach Infrastructure 2020 Master Plan - Year 1 Survey** | Lake Worth Beach, Florida - Field Coordinator for Field Operations and Senior CAD Technician, GPS Network data collection and adjustment, coordination of field crews, Mobile LiDAR computer extraction for topographic survey for right-of-way.

**Monterra Development Topographic and Boundary Survey** | Cooper City, Florida - Mr. Reyes coordinated survey field efforts and assisted in office calculations for the topographic and boundary survey associated with this development. This 526-acre parcel is one of the last large remaining tracts of vacant unincorporated land in southwest Broward County. The project involves the development of a residential community that includes multi-family, townhomes, and single-family units. In addition, the development includes a Town Center that will provide limited commercial, restaurant and retail uses.

**Palm Beach County Biotechnology Research Park Topographic and Boundary Survey** | Palm Beach County, Florida - Mr. Reyes coordinated survey field efforts and assisted in office calculations for the topographic and boundary survey associated with this development. for infrastructure development of this 1,920-acre mixed-use development originally located in northwestern Palm Beach County.

**Hallandale Beach Citywide LiDAR, Surveying & DTM** | Hallandale Beach, Florida | Field Coordinator for Field Operations and Senior CAD Technician, GPS Network data collection and adjustment, coordination of field crews, Mobile LiDAR computer extraction for citywide master plan.

#### **Fort Lauderdale Stormwater Master Plan GIS & Survey** | Fort Lauderdale, Florida

Performed surveying, and an As-built/Inventory of 5,400 Stormwater Features for GIS City-Wide Stormwater Model. From the LiDAR we created a 2-foot grid Digital Elevation Model of the ground for modeling drainage flow. This required a GPS Control Network, and 309 ground control for the flight, performed over 5,000 verification shots on hard surfaces at major roadways across the City of Fort Lauderdale. The second part of this survey was to collect and evaluate 5,400 storm structures with Rims, Inverts, Pipe Size, material, and research As-built records of the City in the Stormwater system and provide the data in ArcGIS Geodatabase conforming to their GIS Model Schema.

#### **Town Hall Boundary and Topographic Survey** | Southwest Ranches, Florida

Mr. Reyes assisted with the preparation of the boundary and topographic survey, a boundary plat, plat revisions, and certified corner records for the Southwest Ranches Town Hall Parcel. This included recovery and/or setting of the existing boundary and/or right-of-way monumentation, establishing two (2) site benchmarks on, or adjacent to the property, locating of all existing aboveground visible improvements within the survey limits.



**Central Broward Water Control District GIS & Survey** | Davie, Florida | Survey Technician/GIS Specialist - The survey work included: establishing a GPS geodetic Control Network for horizontal and vertical positioning for the entire west basin; locating and cross-sectioning all 37 Canals (500 cross-sections); locating & verifying all sizes and material of 400 culverts; providing over 6,000 elevations; entering all survey data into Autodesk Storm & Sanitary Analysis Project; and exporting into EPA PC SWMM software for modeling.

**Village Aquatic Complex Topographic Survey** | Wellington, Florida

This Aquatic Complex is located at Country Club Drive and West Forest Hill Boulevard and includes an administration building, maintenance building, multi-purpose pool, water slide, children's wading pool and splash area, chemical pump area with filtration yard layout and picnic area. Mr. Reyes assisted with the topographic survey used for design purposes. The topographic survey depicted elevations on a 25-foot grid and all above-ground improvements which included buildings, concrete slabs, utilities, trees, irrigation, pools, aquatic features, drain pipes, pavement, sidewalks, etc.

**Downtown at the Gardens Boundary & Topographic Survey** | Palm Beach Gardens, Florida

This upscale retail, restaurant, and residential development is located in Palm Beach Gardens, Florida. The site also features fountains, sculptures and many other amenities. Mr. Reyes assisted with various surveying services for this 60-acre project including the establishment of coordinate datum through the use of global positioning system (GPS). Services provided for this project include American Land Title Association (ALTA)/American Congress on Surveying and Mapping (ACSM) surveys and GPS coordinate datum.

**Broward County Courthouse Topographic and Boundary Survey** | Fort Lauderdale, Florida | Survey Technician

- This project located in downtown Fort Lauderdale consists of a new courthouse building of approximately 700,000 Square Feet of finished space to accommodate the needs of civil and family courts. Secured parking for approximately 120 judges and department heads is provided within the proposed parking garage. Mr. Reyes assisted with the preparation of the boundary and topographic survey used as an engineering design base map for the project.

**Seminole Hollywood Reservation Stormwater Data Collection/GIS** | Hollywood, Florida | GIS Specialist

- The Hollywood Seminole Reservation is generally bounded by Stirling Road on the north and by Sheridan Street on the south and includes the Hard Rock Hotel and Casino which is located north of Stirling Road. The east and west boundaries are formed by existing residential neighborhoods in the City of Hollywood. Craven Thompson acquired accurate horizontal and vertical information on every stormwater/drainage feature on the Tribe's Hollywood Reservation. During the data collection phase, the GPS locations of structures, canals, retention areas and ditches were captured with X-Y-Z coordinate values in the data collector. In addition, details such as pipe sizes, material, inverts, weirs, and structure condition were obtained in the field.

**Hollywood Watermain Replacement Program Mobile LiDAR Survey** | Hollywood, Florida - Field Coordinator and Senior CAD Technician, GPS Network data collection & adjustment, coordination of field crews, Mobile LiDAR computer extraction for 17-mile topographic survey and survey technician for final drawings.

**Plantation Historical Area Infrastructure Mobile LiDAR Survey** | Plantation, Florida | Field Coordinator for Field Operations and Senior CAD Technician, GPS Network data collection and adjustment, coordination of field crews, Mobile Lidar computer extraction for 6-mile topographic survey and Survey CAD Technician for final drawings

## PROJECT MANAGER

Patrick J. Gibney, P.E. is the proposed project/contract manager for the “*Continuing Professional Consulting Services (CCNA)*” Contract. Mr. Gibney graduated from Rutgers, The State University, with a Bachelor of Science Degree in Civil Engineering in 1987. He received his professional engineering license in the State of Florida in 1995. With a total of thirty-seven years of experience in the civil engineering field, Mr. Gibney has spent thirty-one of those years with Craven Thompson & Associates.

As project manager, Mr. Gibney serves as the project lead, client contact, and technical specialist for infrastructure projects. He provides technical experience and expertise for civil related projects and leads planning, study, design and permitting efforts related to roadway design, stormwater/drainage improvements, water distribution, reuse water distribution and wastewater collection and transmission infrastructure. He provides leadership, direction, and technical guidance to staff and municipal clients on a variety of infrastructure projects.

He has designed and/or managed projects involving surveying, roadway design, stormwater/drainage design, water design, wastewater design, and lift station rehabilitation in Broward County since 1993. His initial project was the South County Neighborhood Improvement Project for Broward County Water & Wastewater Service which ran from 1993 to 2005. This 1,440-acre project included the design, permitting, bidding and construction consisting of 53 miles of roadway, 1,400 acres of stormwater management, 140,618 LF of watermain, 236,226 LF of gravity sanitary sewer, and eleven (11) wastewater pumping stations. Following that project, he was also heavily involved in the design and management of the Central County Neighborhood Improvement Project, the North Central County Neighborhood Improvement Project, and the North County Improvement Project. Combined these projects included hundreds of miles of roadway reconstruction, hundreds of thousands of feet of storm sewer, watermain, sewer collection main, force main, along with numerous wastewater pump station rehabilitations and new pump station design.



Mr. Gibney has managed a large number of roadway, stormwater/drainage, water and wastewater system projects for municipalities within Broward County. This includes: Fort Lauderdale, Plantation, Oakland Park, Davie, Hollywood, Miramar, and Hallandale Beach. Craven Thompson currently has continuing services CCNA contracts for water and wastewater for each of these Broward County municipalities. Recently, Mr. Gibney has managed or is managing projects such as:

- ❖ Eastside Infrastructure improvements, Davie
- ❖ Westside Drainage Project, Davie
- ❖ NW 30<sup>th</sup> Street Surtax Project, Davie
- ❖ Orange Drive Surtax Project, Davie
- ❖ Watermain Replacement & Septic Conversion - City Projects 15-5129 & 12-5517, Hollywood
- ❖ Driftwood Septic to Sewer Conversion Phases 1 & 2, Hollywood
- ❖ Master Lift Station W-14, Hollywood
- ❖ Lift Stations A-6, & E-2 Rehabilitation, Hollywood
- ❖ Master Pump Station 8 Rehabilitation, Hallandale Beach,
- ❖ NE 34<sup>th</sup> Court Complete Streets Project, Oakland Park
- ❖ NE 38<sup>th</sup> Street Complete Streets Project, Oakland Park
- ❖ NW 10<sup>th</sup> Avenue LAP Project, Oakland Park,
- ❖ Rivers Oaks Neighborhood Drainage Project, Fort Lauderdale
- ❖ Durrs Neighborhood Drainage Project, Fort Lauderdale
- ❖ Pump Station A-13, Fort Lauderdale
- ❖ Sewer Re-Direction South of Federal Highway Project, Fort Lauderdale



A photograph of a park scene. In the foreground, a wooden walkway with a light brown railing curves through the frame. A dark brown wooden bench is partially visible in the lower left corner. The background is filled with lush greenery, including several tall palm trees and dense foliage. The sky is blue with some light clouds. The text "Tab 4" is overlaid in the upper right corner.

Tab 4

# Professional Registration Certificates

## PROFESSIONAL LICENSES / CERTIFICATIONS

### Licensee

Name: **CRAVEN, THOMPSON & ASSOCIATES, INC.** License Number: **271**  
 Rank: **Registry** License Expiration Date:  
 Primary Status: **Current** Original License Date: **05/10/1977**

### Related License Information

License Number	Status	Related Party	Relationship Type	Relation Effective Date	Rank	Expiration Date
49428	Current, Active	GIBNEY, PATRICK J	Registry	03/14/2014	Professional Engineer	02/28/2025

### Licensee

Name: **CRAVEN, THOMPSON & ASSOCS INC** License Number:  
 Rank: **Landscape Architecture Business Info** License Expiration Date:  
 Primary Status: **Current** Original License Date: **06/18/1985**  
 Secondary Status: **Active**

### Related License Information

License Number	Status	Related Party	Relationship Type	Relation Effective Date	Rank	Expiration Date
LA6666976	Current, Active	PEAVLER, SCOTT WADE DBA: CRAVEN, THOMPSON & ASSOC INC	Landscape Architect	11/08/2023	Registered Landscape Architect	11/30/2025



Florida Department of Agriculture and Consumer Services  
 Division of Consumer Services  
 Board of Professional Surveyors and Mappers  
 2005 Apalachee Pkway Tallahassee, Florida 32399-6500

License No.: **LB271**  
 Expiration Date February 28, 2025

### Professional Surveyor and Mapper Business License

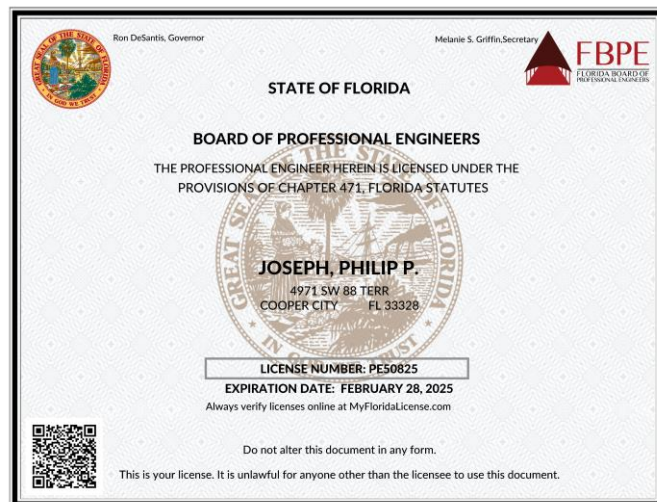
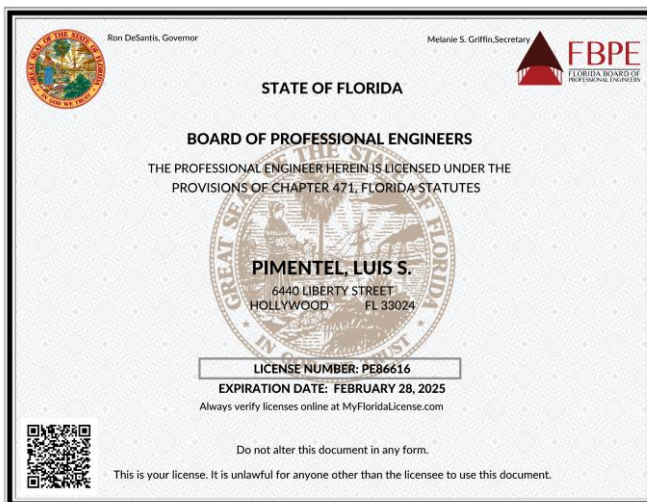
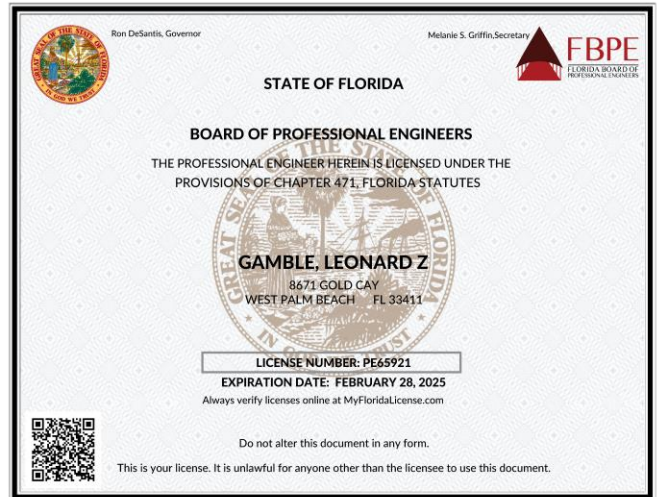
Under the provisions of Chapter 472, Florida Statutes

CRAVEN-THOMPSON & ASSOC, INC  
 3563 NW 53RD ST  
 FT LAUDERDALE, FL 33309-6311

WILTON SIMPSON  
 COMMISSIONER OF AGRICULTURE

This is to certify that the professional surveyor and mapper whose name and address are shown above is licensed as required by Chapter 472, Florida Statutes.





Ron DeSantis, Governor  
Melanie S. Griffin, Secretary

**STATE OF FLORIDA**  
**DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION**  
**BOARD OF PROFESSIONAL ENGINEERS**

THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

**TENN, GARY ANTHONY**  
15965 SW 3RD STREET  
PEMBROKE PINES FL 33027

**LICENSE NUMBER: PE42099**  
**EXPIRATION DATE: FEBRUARY 28, 2025**  
Always verify licenses online at MyFloridaLicense.com

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Ron DeSantis, Governor  
Melanie S. Griffin, Secretary

**STATE OF FLORIDA**  
**BOARD OF PROFESSIONAL ENGINEERS**

THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

**CONNORS, ROBERT MICHAEL**  
5895 NE 22ND AVENUE  
FT. LAUDERDALE FL 33308

**LICENSE NUMBER: PE41863**  
**EXPIRATION DATE: FEBRUARY 28, 2025**  
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Ron DeSantis, Governor  
Melanie S. Griffin, Secretary

**STATE OF FLORIDA**  
**DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION**  
**BOARD OF LANDSCAPE ARCHITECTURE**

THE LANDSCAPE ARCHITECT HEREIN HAS REGISTERED UNDER THE PROVISIONS OF CHAPTER 481, FLORIDA STATUTES

**PEAVLER, SCOTT WADE**  
CRAVEN, THOMPSON & ASSOC INC  
4311 NW 103RD AVENUE  
SUNRISE FL 33351

**LICENSE NUMBER: LA6666976**  
**EXPIRATION DATE: NOVEMBER 30, 2025**  
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ISSUED: 11/14/2023  
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Ron DeSantis, Governor  
Melanie S. Griffin, Secretary

**STATE OF FLORIDA**  
**DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION**  
**BOARD OF LANDSCAPE ARCHITECTURE**

THE LANDSCAPE ARCHITECT HEREIN HAS REGISTERED UNDER THE PROVISIONS OF CHAPTER 481, FLORIDA STATUTES

**PASTRE, NICOLE DIANA**  
6105 FLETCHER ST.  
HOLLYWOOD FL 33023

**LICENSE NUMBER: LA6667397**  
**EXPIRATION DATE: NOVEMBER 30, 2025**  
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Melanie S. Griffin, Secretary

**STATE OF FLORIDA**  
**DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION**  
**BOARD OF LANDSCAPE ARCHITECTURE**

THE LANDSCAPE ARCHITECT HEREIN HAS REGISTERED UNDER THE PROVISIONS OF CHAPTER 481, FLORIDA STATUTES

**SCHOFIELD, ERIK WILLIAM**  
1427 NW 7TH TER  
FORT LAUDERDALE FL 33311

**LICENSE NUMBER: LA6667682**  
**EXPIRATION DATE: NOVEMBER 30, 2025**  
Always verify licenses online at MyFloridaLicense.com

ISSUED: 12/20/2023  
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Florida Department of Agriculture and Consumer Services  
Division of Consumer Services  
Board of Professional Surveyors and Mappers  
2065 Apalachee Pkwy Tallahassee, Florida 32399-6500

License No.: **LS5371**  
Expiration Date: February 28, 2027

**Professional Surveyor and Mapper License**  
Under the provisions of Chapter 472, Florida Statutes

**RICHARD G. CRAWFORD JR**  
12780 NW 15TH ST  
SUNRISE, FL 33323-3101

**WILTON SIMPSON**  
COMMISSIONER OF AGRICULTURE

This is to certify that the professional surveyor and mapper whose name and address are shown above is licensed as required by Chapter 472, Florida Statutes.

Florida Department of Agriculture and Consumer Services  
Division of Consumer Services  
Board of Professional Surveyors and Mappers  
2065 Apalachee Pkwy Tallahassee, Florida 32399-6500

License No.: **LS5799**  
Expiration Date: February 28, 2025

**Professional Surveyor and Mapper License**  
Under the provisions of Chapter 472, Florida Statutes

**RAYMOND YOUNG**  
2661 NW 63RD AVE  
MARGATE, FL 33063-1721

**WILTON SIMPSON**  
COMMISSIONER OF AGRICULTURE

This is to certify that the professional surveyor and mapper whose name and address are shown above is licensed as required by Chapter 472, Florida Statutes.



State of Florida  
Department of State

I certify from the records of this office that CRAVEN, THOMPSON & ASSOCIATES, INC. is a corporation organized under the laws of the State of Florida, filed on January 1, 1962.

The document number of this corporation is 254407.

I further certify that said corporation has paid all fees due this office through December 31, 2025, that its most recent annual report/uniform business report was filed on January 7, 2025, and that its status is active.

I further certify that said corporation has not filed Articles of Dissolution.



Given under my hand and the  
Great Seal of the State of Florida  
at Tallahassee, the Capital, this  
Seventh day of January, 2025

Secretary of State

Tracking Number: 1369007223CC  
To authenticate this certificate, visit the following site, enter this number, and then follow the instructions displayed.  
<https://services.sunbiz.org/Filings/CertificateOfStatus/CertificateAuthentication>

ACORD® CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 11/25/2024

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsements.

PRODUCER: Brown & Brown Insurance Services, Inc.  
1201 W Cypress Creek Rd  
Suite 130  
Fort Lauderdale FL 33309

CONTACT: Angela Nervi-Sakelao  
PHONE: (954) 776-2222 FAX: (954) 776-4446  
EMAIL: angela.nervi@bbrown.com

INSURER A: Hartford Casualty Insurance Company NAIC # 29424

INSURER B: Hartford Insurance Company of the Midwest 37478

INSURER C: Hartford Insurance Company of the Southeast 38261

INSURER D: Continental Casualty Company 20443

INSURER E:

INSURED: Craven Thompson & Associates, Inc.  
3563 NW 53rd Street  
Fort Lauderdale FL 33309

COVERAGE: CERTIFICATE NUMBER: 24-25 AL 25-26 WVC REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

TYPE	TYPE OF INSURANCE	POLICY NUMBER	INSURANCE PERIOD	INSURANCE PERIOD	LIMITS
A	COMMERCIAL GENERAL LIABILITY CLAIMS-MADE POLICY: <input checked="" type="checkbox"/> CLAIMS-MADE OTHER: <input type="checkbox"/> SCHEDULED AUTOS ONLY <input type="checkbox"/> AUTOS ONLY <input type="checkbox"/> NON-OWNED AUTOS ONLY <input type="checkbox"/> OTHER	21UUNOLBHC	12/01/2024	12/01/2025	EACH OCCURRENCE BODILY INJURY PROPERTY DAMAGE MED-EXP (any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS/COMPLAINTS EMPLOYEE BENEFITS COVERED SINGLE LIMIT BODILY INJURY (per person) PROPERTY DAMAGE Medical payments EACH OCCURRENCE AGGREGATE \$ 1,000,000 \$ 300,000 \$ 10,000 \$ 1,000,000 \$ 2,000,000 \$ 1,000,000 \$ 1,000,000 \$ 5,000 \$ 6,000,000 \$ 6,000,000
B	AUTOMOBILE LIABILITY ANY AUTO OWNED AUTOS ONLY HIRE AUTOS ONLY SCHEDULED AUTOS ONLY NON-OWNED AUTOS ONLY	21UUNOLB299	12/01/2024	12/01/2025	EACH OCCURRENCE BODILY INJURY PROPERTY DAMAGE MED-EXP (any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS/COMPLAINTS EMPLOYEE BENEFITS COVERED SINGLE LIMIT BODILY INJURY (per person) PROPERTY DAMAGE Medical payments EACH OCCURRENCE AGGREGATE \$ 1,000,000 \$ 300,000 \$ 10,000 \$ 1,000,000 \$ 2,000,000 \$ 1,000,000 \$ 1,000,000 \$ 5,000 \$ 6,000,000 \$ 6,000,000
C	WORKERS COMPENSATION AND EMPLOYERS LIABILITY ANY POLICY (NON-EMPLOYER) OFFICER/OWNER/EXECUTIVE OFFICER/OWNER/EXECUTIVE (Non-employee in title) Description of Operations below	21WBOLB4G	01/01/2025	01/01/2026	EACH OCCURRENCE BODILY INJURY PROPERTY DAMAGE MED-EXP (any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS/COMPLAINTS EMPLOYEE BENEFITS COVERED SINGLE LIMIT BODILY INJURY (per person) PROPERTY DAMAGE Medical payments EACH OCCURRENCE AGGREGATE \$ 1,000,000 \$ 300,000 \$ 10,000 \$ 1,000,000 \$ 2,000,000 \$ 1,000,000 \$ 1,000,000 \$ 5,000 \$ 6,000,000 \$ 6,000,000
D	Architects Professional	A2H59181336	03/30/2024	03/30/2025	EACH OCCURRENCE BODILY INJURY PROPERTY DAMAGE MED-EXP (any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS/COMPLAINTS EMPLOYEE BENEFITS COVERED SINGLE LIMIT BODILY INJURY (per person) PROPERTY DAMAGE Medical payments EACH OCCURRENCE AGGREGATE \$ 1,000,000 \$ 300,000 \$ 10,000 \$ 1,000,000 \$ 2,000,000 \$ 1,000,000 \$ 1,000,000 \$ 5,000 \$ 6,000,000 \$ 6,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

CERTIFICATE HOLDER: For Proposals Purposes Only

CANCELLATION: SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE: [Signature]

ACORD 25 (2016/03) The ACORD name and logo are registered marks of ACORD

BROWARD COUNTY LOCAL BUSINESS TAX RECEIPT

115 S. Andrews Ave., Rm. A-100, Ft. Lauderdale, FL 33301-1895 - 954-357-4829  
VALID OCTOBER 1, 2024 THROUGH SEPTEMBER 30, 2025

Business Name: CRAVEN THOMPSON & ASSOCIATES  
Business Type: ENGINEER (CORP-ENGINEERING)  
Owner Name: THOMAS M MCDONALD  
Business Location: 3563 NW 53 ST  
FT LAUDERDALE  
Business Phone: 954-739-6400  
Business Opened: 09/25/2006  
State/County/Cert/Reg: Exemption Code:

Rooms	Seats	Employees	Machines	Professionals		
		5				
For Vending Business Only						
Number of Machines:			Vending Type:			
Tax Amount	Transfer Fee	NSF Fee	Penalty	Prior Years	Collection Cost	Total Paid
30.00	0.00	0.00	0.00	0.00	0.00	30.00
Receipt Fee						30.00
Packing/Processing/Canning Employees						0.00

THIS RECEIPT MUST BE POSTED CONSPICUOUSLY IN YOUR PLACE OF BUSINESS

THIS BECOMES A TAX RECEIPT  
WHEN VALIDATED  
This tax is levied for the privilege of doing business within Broward County and is non-regulatory in nature. You must meet all County and/or Municipality planning and zoning requirements. This Business Tax Receipt must be transferred when the business is sold, business name has changed or you have moved the business location. This receipt does not indicate that the business is legal or that it is in compliance with State or local laws and regulations.

Mailing Address:  
THOMAS M MCDONALD  
3563 NW 53 ST  
FORT LAUDERDALE, FL 33309

Receipt #BNW-23-00276385  
Paid 07/30/2024 30.00

2024 - 2025



Florida Department of Transportation

RON DESANTIS  
GOVERNOR

405 Suwannee Street  
Tallahassee, FL 32399-0450

JARED W. PERDUE, P.E.  
SECRETARY

June 30, 2024

Thomas McDonald, President  
CRAVEN, THOMPSON & ASSOCIATES, INC.  
3563 NW 53rd Street  
Fort Lauderdale, Florida 33309

Dear Mr. McDonald:

The Florida Department of Transportation has reviewed your application for prequalification package and determined that the data submitted is adequate to technically prequalify your firm for the following professional services types of work per Rule 14-75, F.A.C.:

- 3.1 Minor Highway Design
- 3.2 Major Highway Design
- 8.1 Control Surveying
- 8.2 Design, Right of Way & Construction Surveying
- 8.4 Right of Way Mapping
- 10.1 Roadway Construction Engineering Inspection
- 15.0 Landscape Architect

Your firm is now technically prequalified with the Department for Professional Services in the above referenced work types. The overhead audit has been accepted, and your firm may pursue projects in the referenced work types with fees of any dollar amount. This status shall be valid until June 30, 2025, for contracting purposes.

Approved Rates			
Home Overhead	Facilities Capital Cost of Money	Premium Overtime	Home Direct Expense
146.08%	0.025%	Reimbursed	0.00%

Per Title 23, U.S. Code 112, there are restrictions on sharing indirect cost rates. Refer to Code for additional information.

Should you have any questions, please feel free to contact me by email at carliayn.kell@dot.state.fl.us or by phone at 850-414-4597.

Sincerely,

Carliayn Kell  
Carliayn Kell  
Professional Services  
Qualification Administrator

1



Tab 5

# Approach to Handling of Potential Projects



## APPROACH TO PROJECTS

Mr. Patrick Gibney will act as Project/Contract Manager under this RFQ. He takes an active role in the day-to-day design, permitting and construction services on projects which he directs. He is very responsive to his clients, and is very quick to resolve any issues which may arise.

Mr. Gibney will be in regular contact with City staff through various means, including his in-house time. Excellent communication is the key to being successful consultants. We believe that meetings during the design and permitting process between City staff and the Craven Thompson team on city projects is mutually beneficial. Face-to-face meetings tend to be more productive than conference calls. Within an hour from notification, Mr. Gibney will be available for any meeting. All of the proposed Craven Thompson Team members are readily accessible for meetings, by phone, or via email during regular hours, 7:00 am to 6:00 pm (and outside of regular hours should it become necessary).



Between meetings we will also be in contact through phone and email. Craven Thompson will supply the city with a contact list of team members at the beginning of the project. We will respond to the City's calls or emails within four hours of receiving them at the latest and sooner if possible. We will be available for emergency (non-scheduled) meetings within a very short notice.

If requested, Mr. Gibney will prepare a project status report which will be transmitted to City staff. The report will detail tasks completed (and percentages complete of tasks remaining), compliance with the design/permitting schedule, issues with potential impact to project schedule and/or budget, and any comments from agencies having jurisdiction.

Mr. Gibney will remain the point of contact for all projects under this solicitation, but will utilize different discipline leads and staff (based on project type) of Craven Thompson to perform the work necessary to maintain the schedule. All Cooper City projects will be of the highest priority and will be handled professionally to achieve the desired outcome. Another discipline's lead professional will be assigned to each task and will answer directly to Mr. Gibney. Project engineers, project surveyors, landscape architects, GIS specialists and designers will answer directly to the lead professional assigned to the task.

At the heart of every consulting company are individuals working day-to-day to successfully achieve their client's goals, and this is precisely what sets Craven Thompson apart.



## **APPROACH TO CIVIL ENGINEERING/WATER/WASTEWATER/STORM-WATER SPECIFIC PROJECTS (Includes Site, Roadway, Water, Wastewater, and Stormwater)**

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The following are general approaches to projects in the categories which Craven, Thompson & Associates is pursuing. Note that a typical project in civil, and water/wastewater/stormwater (including Other - CEI) will follow the same general approach on a project-by-project basis, and therefore we have a single approach for these two categories of projects. We have included separate approaches for Landscape Architecture, Surveying (Other) and G.I.S. (Other) projects.

### **PLANNING PHASE**

#### *✧ Initial Stages*

Upon being awarded the project by Cooper City, Patrick Gibney, P.E. will meet with the assigned City staff to determine specific requirements of the project, define the project budget, and will then prepare an understanding of project scope, and a preliminary project timeline. The understanding of project scope and preliminary project timeline will be provided to the City for review and approval prior to the Craven Thompson internal project “Kick-off Meeting.” This “Kick-off Meeting” will occur after the initial project award meeting between Cooper City staff and Mr. Gibney.

At the “Kick-off Meeting”, the team will be introduced to the scope, the budget and the timeline. The Project Manager will define the various elements of the projects and describe the quality control/quality assurance requirements at this meeting. Mr. Gibney will periodically review the progress of the project to assure meeting the project timeline and budget as initially approved by the City. Mr. Gibney will then update Cooper City staff of the project progress.

#### *✧ Information Gathering and Review*

The Craven Thompson Team will gather as much available information that can be obtained through due diligence. This will include as-builts, atlases, GIS, studies, and past survey information. We will search for existing studies, reports, technical information, and design documents for the existing water mains, sanitary sewers, lift stations, drainage, gas, telephone and electric. Also, we will seek public and private utility atlases and as-builts for service areas within the specific project limits.

We will review City specifications, standard details, and project management procedures; agency permitting requirements, determine regulatory agencies having jurisdiction, and their submittal requirements. We will also gather any other available geotechnical and environmental data within the project limits.

#### *✧ Surveying Project Limits*

Craven Thompson will prepare a topographic design/specific purpose survey of the project limits. We will perform the survey using traditional surveying methods. Using conventional means, we can set horizontal and vertical control as well as collect topographic and invert information for water valves and hydrants, sanitary manholes, and storm structures. Integrating this information with collected as-built information, a base map will be produced depicting all available aboveground and below ground information. This base map's accuracy is vital in assuring the proposed design has accounted for existing conditions.



This survey would consist of a base map of the project limits, a survey control baseline and survey control points, with both horizontal and vertical coordinate information, in the form of x-y-z coordinates, in State Plane, Florida East Zone, NAD83(90), US Survey Feet format. Craven Thompson can then use the survey control to create a topographic design survey of the full rights-of-way of roadways, extending ten (10) feet beyond the existing rights-of-way lines where accessible. Locations would include all aboveground and visible improvements, including pavement, swales, signs, street lights, sidewalks, driveways, utility features and trees, three (3) inches in diameter and above, measured at four (4) feet aboveground level. All sanitary and storm sewer structures would include rims, inverts and pipe sizes and directions.

Minimum Technical Requirements for the surveying will be per the Florida Board of Professional Surveyors and Mappers in Chapter 61G17-6 of the Florida Administrative Code, pursuant to Section 472.027 Florida Statutes.

### ✧ *Meetings*

Regular project meetings will be held with Cooper City representatives for all phases of the project. Craven Thompson will facilitate these projects and attendees present at the meetings will be dependent on the phase of the project and the issues to be addressed. These meetings will be focused on adherence to the project timeline, quality control, budget, and also on the resolution of any outstanding issues.

### ✧ *Public Outreach (as necessary depending on project scope, complexity and sensitivity)*

The Public Outreach program created and facilitated by Craven Thompson shall be comprised of the following primary elements:

- Conduct public outreach meetings during the design and construction process to inform the public and solicit comments.
- Create a project website (or a page for the city website) so that homeowners can keep up to date on schedules, traffic changes, public meetings, photos showing progress of the project, safety steps being taken, and the progress. Make it simple and keep it updated on a frequent basis. Link all Facebook and Twitter feed.
- Prepare a database of landowners, business associations and businesses adjacent to and contiguous with the rights-of-way.
- Create project Facebook and Twitter accounts. Use them daily with pictures to show progress and if necessary and MOT changes.
- Create a hotline to make sure that with one phone call, a resident can obtain the information requested or be directed to appropriate City staff or Mr. Gibney.
- Schedule a public workshop in the neighborhood to educate the homeowners and get their feedback.
- Develop a database of the homeowners and stake holders affected.
- Create a letter to be mailed, and a follow up flier/door hanger to be hand-delivered to each house with information about the project, and the public meeting early in the project.
- If needed, signatures can be obtained from resident homeowners acknowledging they understand there will be workmen in their yards, and some landscaping changes may occur. The team member delivering the door hangers can be tasked with this item.



- Upon completion of the project, create and mail a newsletter with information and pictures to show residents the results. The City may wish to provide this information to residents who receive their email newsletter.
- A plan addressing anticipated issues during construction will be presented to the neighborhood involving such topics as road closures, traffic management, public safety issues, access to property, parking, bus routes, safe sidewalk access, routes to schools, construction hours, dust control, noise control, and construction material & equipment storage in the area.

A system for tracking complaints, questions, and comments will ensure that they are directed to the proper entity and satisfactorily addressed in a timely manner. We have found that public inclusion in projects at the beginning avoids animosity at the project completion. The residents and businesses of the affected neighborhoods should receive as much advance information as possible as to the benefits of the improvements, and what will take place during construction in their neighborhood, as they will be directly affected.

## DESIGN & PERMITTING PHASE

Craven Thompson will incorporate data gained through agency comment into 30% design plans and calculations. These plans and calculations will be provided for City review. Craven Thompson will also perform a 30% internal review process.

City comments will then be incorporated into the plans, which will be further developed into 60% documents. Craven Thompson will process these plans and calculations through an internal review process as well as through City review. The typical Craven Thompson internal reviews take place at 30%, 60%, 90%, and 100% complete documents.

After incorporation of the City's 30% comments, Craven Thompson will proceed to completion of 60% design development documents. As with the 30% conceptual documents, the 60% design development documents would then be provided to the City staff for review and comment. We will proceed to 90% construction documents upon incorporation of the City's 60% comments. Craven Thompson will prepare the design permit applications and supporting documentation at the 90% construction document stage to assist Cooper City in obtaining the construction permits for the infrastructure improvements from the agencies having jurisdiction.

During this period, Craven Thompson will prepare and submit responses to "Requests for Additional Information" (RAI) relative to the permitting package submitted. Any comments or additional requirements will be incorporated into the design prior to preparing the 100% design documents.

In addition, Craven Thompson will review the project from a "constructability" of design perspective to meet Cooper City's goals and objectives and to maintain a firm grasp on the costs associated with each project. The "constructability" of a design is an important facet to consider during each phase of a design's development. However, when a preliminary design is nearing substantial completion (90% plans), it undergoes an in-house constructability review by our Construction Department. This review specifically ensures that the plans make sense from a construction perspective and is intended to minimize potential problems in the field during construction.

During our various internal review processes, we will also value engineer the project. Value engineering is not simply cutting the cost or scope of a project to reduce budget, it is a creative, organized effort, which analyses the requirements of a project for the purpose of achieving the



essential functions at the lowest total costs (capital, staffing, energy, maintenance) over the life of the project. Our staff of experts has extensive experience providing constructability, bid-ability, and value engineering services to our current and past municipal clients. By providing these services, we have saved cities many thousands of dollars and months of schedule time.

We will meet with Cooper City staff to receive their comments on the 90% design submittal. Following the meeting, our team will incorporate the City's comments and in addition identify any changes required due to agency permit comments. We will then incorporate comments from the Craven Thompson constructability review and make appropriate revisions to the 90% design documents. We will then proceed to complete preparation of the 100% contract documents, technical specifications and bidding documents for the solicitation of competitive bids for the construction of the project.

Close attention to the budgetary constraints will be a primary focus of Craven Thompson. In addition, value-engineering analysis will play a critical role ensuring the most efficient design possible. No work will be added to the project without review and agreement by both Cooper City staff and Mr. Gibney. Such review will include cost and time impacts to identify alternative solutions, which can maintain the project's budget. Development of a solid budget will be first of foremost importance to the success of the project. Verifying the budget against the agreed upon project scope will establish the baseline cost for construction. Just as in the design controls stated above, no additions to the scope will be made without a review by the City staff and Mr. Gibney.

## **BIDDING PHASE**

Craven Thompson will pull all necessary bid documents together to provide to the City for bidding purposes. We will assist Cooper City by facilitating the pre-bid meeting and responding to questions and requests from the prospective bidders during the bidding phase.

Once bids have been received, Craven Thompson will tabulate the bids and review for completeness & responsiveness. In addition, we will check contractor references and prepare a recommendation to Cooper City of the lowest responsive qualified bidder. Once the contractor has been selected through the City Commission, Craven Thompson will work with the City and contractor to finalize the construction contract. Once the City has issued a Notice to Proceed for the contract, Craven Thompson will facilitate a preconstruction meeting, which will include the City, agencies, contractors, and all utilities to identify responsibilities, procedures and processes to be used during construction. The construction schedule will be addressed at this meeting.

### *✧ Construction Engineering and Inspection*

Many of the Craven Thompson staff that will be handling the construction related services have been providing these services in South Florida for the past few decades on infrastructure rehabilitation projects. Our Construction Manager, Brian Tull, has personally been providing Construction Services for over twenty-four years. Craven Thompson provides a long and tested resume of implementing these types of projects from planning to final certification. Craven Thompson's construction services team is unmatched for the most experienced managers, public relation staff, field personnel and testing services.

Once Cooper City has issued a Notice-to-Proceed for the contract, Mr. Tull will facilitate a pre-construction meeting, which will include the City, agencies, contractors, and all utilities to identify responsibilities, procedures and processes to be used during construction. The construction schedule will be addressed at this meeting. During the construction process, Craven Thompson



will work with the City staff and the contractor with the goal to complete the project on time and under budget.

During the first week of construction, Mr. Tull will be on-site interacting monitoring the construction. He will keep in close contact with the City representatives and provide regular updates on the progress and issues related to the project.

In order to keep Cooper City fully informed, Craven Thompson will generate weekly project status reports. We will communicate directives and clarifications on the project, as necessary. Mr. Tull will play a critical role during the construction process by reviewing the contractor's work and identifying issues when they are discovered. Bi-weekly site meetings will be scheduled and facilitated by the construction manager in order to review the project schedule and to maintain organization and communication.

## PRE-CONSTRUCTION PHASE

- Manage the assigned construction project, overseeing aspects of implementation and coordination of project management including the planning and scheduling and coordination of activities; following procedures and setting priorities to meet established goals and objectives – act as City's project management staff;
- Facilitate a public outreach meeting (as necessary)
- Review and proofread plans, specifications, codes, shop drawings, submittals, procedures, reports, memos, status reports, contractor's minimum days, delay days, and change order days;
- Monitor adherence to project schedule;
- Track & manage project budgeting;
- Evaluate contractor proposals & summarize for review;
- Evaluate construction schedule;
- Conduct a pre-construction meeting;
- Establish and maintain all files, submittals, daily reports, and contractor daily reports. Establish and maintain reports which include submittals, correspondence, pay requests, change orders and field change directives, meeting minutes, supplemental instructions, sketches, Requests for Information (RFI), Requests for Changes (RFC), and correspondence between the designer, testing agency, and the contractor;
- Identify work that is needed and find cost efficient ways to perform the work;

## CONSTRUCTION PHASE

- Provide conduit for communication from owner to the contractor and designer;
- Provide construction administration;
- Verify survey horizontal & vertical control;
- Coordinate project with local agency inspection and private utilities inspections and comments;
- Field verify constructed quantities through survey;
- Develop a Daily Quantity Sheet;



- Monitor conformity of construction with content of approved/permitted design plans and specifications;
- Report significant events and/or discrepancies to City;
- Establish budget tracking mechanism/report expenditures verses budgets each reporting period;
- Monitor progress and troubleshoot issues as they arise;
- Facilitate regular bi-weekly meetings and provide detailed meeting minutes;
- Prepare field/site visit reports;
- Prepare final record drawings;
- Review record drawings on a monthly basis;
- Review testing reports for general conformance with plans and specifications;
- Approve and certify all flushing and pressure testing of piping;
- Assist in coordinating density testing;
- Communicate City directed changes to affected parties;
- Review Pay Applications;
- Monitor submittals and Requests for Information to insure timely approvals;
- Coordinate work in general/Act as City's representative;
- Perform inspections and site observation;
- Maintain a permanent file of all project documents for release to City at close of project;
- Resolve contractors' questions/facilitate answers;
- Assist in approval process of material;
- Provide photographs as project progresses;
- Maintain punch list and progress toward completion of the punch list; to achieve substantial and final completion of the work;
- Prepare required paperwork for closing the project;
- Certify that construction is complete. Certification will go to the City, appropriate divisions of Broward County, SFWMD, FDEP, and FDOT.



During construction, Mr. Gibney and Mr. Tull will meet with the Cooper City staff to monitor schedules and budget and assist in the administration of the contract. They will maintain copies of the daily reports, the contractor's progress reports, change order requests, and updated construction schedules. We will maintain a project file throughout the duration of the project, which will be provided to the City staff upon completion of the project.

### ✧ *Inspections*

Craven Thompson will perform the following services for Cooper City during the Inspection Phase of the contract:

- Provide periodic field inspections for the construction of the roadway, landscape, sidewalk, hardscape, water/wastewater, drainage/stormwater improvements, and right-of-way restoration

- Conduct on-site reviews and inspections throughout construction
- Witness and schedule construction testing
- Prepare inspection and testing reports
- Prepare daily inspection reports
- Coordinate as-built data collection with the contractor
- Coordinate weekly as-built plan update
- Determine if the contractor's work is in substantial conformance with the contract documents

## **FINAL CERTIFICATION PHASE**

Craven Thompson will perform the following services for Cooper City during the final certification phase of the contract:

- Attend final inspection of the project with applicable governmental agency representatives, contractor, and Cooper City.
- Provide written approval of final payments to contractor
- Prepare engineering certification letters as required
- Prepare project completion certification forms and applications and submit all other necessary documents to the governmental authorities to accept the project
- Sign & seal final record drawings
- Prepare submittal package to the City for final approval

Record drawings will be prepared and submitted Cooper City staff (in AutoCAD format) for their use to incorporate into the city database. The Craven Thompson Surveying & GIS Department will prepare the record drawings in conjunction with the contractor.

## APPROACH TO LANDSCAPE ARCHITECTURE PROJECTS

Craven Thompson will develop creative and cost-effective design solutions to any project, whether big or small. We will be expected to perform a wide variety of landscape architectural tasks including urban design, streetscape, parking lot landscape & hardscape, median landscape & hardscape, permit assistance, park design, and landscape architectural contract documents for all types of projects. We have a long history with providing these exact services to many other government entities. Craven Thompson has consistently utilized a predominantly native plant palate and Xeriscape principles thus reducing maintenance and water requirements while still providing a variety of colors and textures to the user. The Craven Thompson Team will emphasize creativity, cost-effective design, management and scheduling techniques which will result in a beautiful, on-time and within budget, final product that will continue to implement the City's vision for many years to come. Mr. Scott Peavler, P.L.A. will act as the Landscape Architectural Project Manager. He has nineteen years of experience in landscape architecture in Palm Beach, Broward, and Miami-Dade Counties.

Although every project is unique in its scope and detail, Craven Thompson implements a similar management approach for all projects. For any given project or task, Craven Thompson will institute the following typical project approach:

- Meet with Cooper City to review project scope, objectives and budget
- Prepare project design schedule
- Perform preliminary site investigation of existing conditions
- Prepare design alternatives with cost opinions
- Review with City Staff
- Solicit input from public and affected parties through the appropriate City Staff, as necessary
- Prepare preliminary design plans
- Prepare preliminary construction cost opinion with each plans production phase
- Review preliminary plans with City Staff
- Modify preliminary design plans and budget as necessary
- Provide updates to public/affected parties as Cooper City deems necessary
- Prepare final construction documents
- Submit and support applications for required government approvals and permits
- Prepare bid documents
- Update construction cost opinion
- Prepare contract documents
- Provide construction services
- Shop drawing review
- Construction observation
- Contract administration
- Review contractor's pay requests
- Certifications/Project close-out



Mr. Peavler will coordinate directly with Cooper City staff on an on-going basis to update them on the status of all landscape projects and provide the work product that is requested or required. Communication methods will include email, telephone, cell phone, and face-to-face meetings and will be tailored to the City's vision.

Overall, Craven Thompson will work to achieve the following goals:

- Same day response to inquiries
- Schedule with milestone dates
- Recovery schedule
- Explore alternatives during design phase
- Verify cost opinions with other sources
- Keep the City's project manager informed of critical elements
- Monthly updates
- Direct contact with our project manager and landscape architect lead
- Preparation of bid documents for construction and landscape projects including detailed scale drawings:

The Craven Thompson approach will utilize the latest AutoCAD software, using the Cooper City Standards & Guidelines, to create easily clear and concise construction documents including plans and specifications. All projects, no matter what size, require accurate contract documents in order to greatly reduce the possibility of misunderstandings, which could result in a change order. We strive to prepare all construction plans at the same scale for ease in relating the plans to one another. We overlay information, such as existing utilities onto the landscape plans, to identify any conflicting issues.

All of our plans go through a thorough Quality Assurance / Quality Control procedure to make every effort to eliminate errors, additional revisions, and construction delays to the maximum extent possible. Nicole Pastre, P.L.A., will be responsible for quality control for all landscape architecture aspects of Cooper City projects.



All of the landscape architecture projects would be designed in accordance with the NatureScape and Xeriscape principals. NatureScape principals have been utilized by the Landscape Architectural Department at Craven Thompson for the last forty-five (45) years, so they are not new.

In summary, these principals include:

- Limited turf areas
- Efficient irrigation
- Soil improvements
- Use of mulches
- Use of low-water demand plants
- Appropriate maintenance



The landscape design philosophy of Craven Thompson is to bring creative, timeless and innovative landscape design solutions to every project. We always take into consideration the maintenance requirements and design for the long-term as well as CPTED (Crime Prevention through Environmental Design) principles to ensure the safety of the public. Our designs always include colorful, texture-rich plantings using a predominantly native plant palate.

Craven Thompson will work closely with City Staff to prepare landscape designs that are exciting for both the observer and the city. Following the initial data collection phase, Craven Thompson will prepare conceptual landscape plans for review by the city. These conceptual plans will be detailed to a 30% level. Once comments are received, the plans will be revised to become the final construction documents, which may or may not include subsequent 60% 90% and 100% submittals, dependent on the complexity of the project.

If required, the plans will be processed through the site plan review process and then bidding documents, including written specifications, will be prepared to be placed out to bid by Cooper City.

### ✧ *Urban Design Plans*

Over the past several years, urban design in South Florida has gone through a drastic change. With the introduction of 'modern urbanism' the language of development has been changed forever. Suburban communities are now urban; mass transit is being taken seriously; pocket parks and urban oasis are becoming more of a common occurrence and 'sustainability' and 'green buildings' has entered into Code requirements from many cities and counties.

The Craven Thompson approach to Urban Design Plans builds on three key principles.

- Build on Your Strength
- Create Great Places
- Activate the Street

With every urban design plan, Craven Thompson will review these three key principles to determine how they can all be met. All three are incredibly important in an urban environment. By building on the strength that is already present in the City, site or area, by creating a great space that pays attention to the details and by activating the street which provides an undeniable energy, change will be achieved quicker and will be more successful.

In outlining an applicable approach, it is assumed that the task would be to develop general urban design plans for a specific area within Cooper City. The final deliverable could possibly be a set of design guidelines for the redevelopment of an area. For this task, the Craven Thompson approach will generally follow these steps:

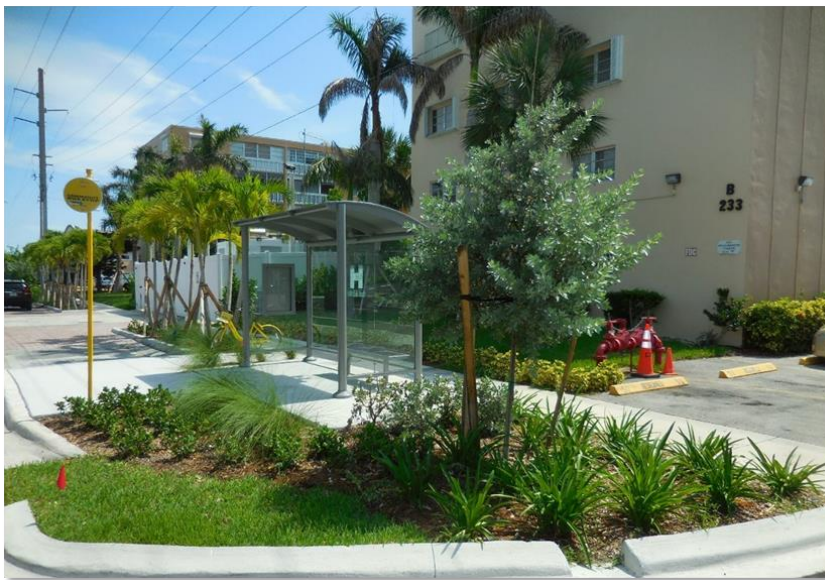
- Meet with City Staff to gain initial input on the task at hand and brainstorm first ideas.
- Perform research to determine the strengths present. This will include several site visits and informal discussions with the existing businesses and users.
- Review existing development regulations and programs.



- Develop conceptual ideas for the plan.
- Meet with City Staff and other stakeholders to review concept plans.
- Re-evaluate and refine the conceptual plans and revise to accommodate concerns and comments.
- Prepare urban design plan.
- Review with City Staff.
- Finalize urban design plan.
- Present to City Commission
- Revise as necessary.
- Present final urban design plan to the City.

### ✧ *Streetscapes & Median Design:*

Streetscapes and medians are extremely important design elements of any redevelopment area. They often set the main impression on someone who is only passing through the City.



The streetscape projects have involved extensive coordination with residents, staff, engineers and grant funding agencies to bring about the project's success. There are many components within the project requiring coordination and community / stakeholder input that must be carefully coordinated and programmed into the design and project schedule to meet expectations. In addition, we design the streetscape elements in harmony with the existing neighborhood architecture and accentuate the positive themes of the area.

Often overlooked or downplayed, medians actually provide an amazing opportunity to compliment the image and beautification of the municipality while strengthening the branding that Cooper City is nurturing. Our approach begins with creativity in design.

We strive to design a median that would excite and entice each passerby. Even though there are many regulations that govern the design of the median for safety concerns, such as FDOT Index No. 546, there are numerous streetscape enhancements, both softscape and hardscape, which are permitted to be placed within the median given conformance to the safety regulations.

The Craven Thompson approach would generally follow these steps:

- Meet with Cooper City Staff to gain initial input.
- Perform site visits to determining existing conditions while surveying the roadway.
- Identify current and future growth including redevelopment plans underway.
- Apply FDOT sight lines as well as other safety concerns.
- Investigate existing and proposed utilities.
- Prepare design alternatives with cost opinions.

- Review with City Staff.
- Solicit input from the public and other affected parties.
- Prepare preliminary plan with cost opinions.
- Present to the City Commission.

If the project is ready to move ahead to the construction plan phase, the following steps would generally be followed:

- Modify preliminary design plans and budget as necessary.
- Provide updates to public/affected parties as Cooper City deems necessary.
- Prepare final construction documents.
- Submit and support applications for required government approvals and permits.

### ✧ **Park Design:**

When Craven Thompson is tasked to design a park, the principal goal is to create a place that attracts a wide variety of people and an experience that makes them return again and again throughout the year. Often, parks are treated as aesthetic objects only, which result in a space that is pleasant to look at, but that few people use. Contrastingly, some parks are treated in a purely functional manner which provides a space that serves the designated function, however, are not exciting to look at nor do they attract new users to the facility.



The Craven Thompson approach begins with the idea that successful parks are places where many functions of the community take place and where people feel connected and have a sense of ownership. At Craven Thompson, we believe that parks should have distinct destinations within it and a variety of ways to use each destination. We strive to create spaces that people want to be in.

Creating a park that meets the criteria begins at the earliest of planning stages and continues throughout the park's development. Park design is a fluid process with the park's ultimate design including not only the facilities that are dictated by the users but should include many other functions that the user may not have even thought of. These activities should be clustered so that they each build off of each other to create the vibrant destination that we all want.

## APPROACH TO SURVEYING AND MAPPING

Craven Thompson's Surveying/G.I.S. Department consists of four (4) registered Professional Surveyors & Mappers/GIS specialists (PSM's), four (4) technicians, with eight (8) two-man field crews. There is a combined experience of over one hundred years in every aspect of the Surveying and Mapping profession between all of the Professional Surveyors and Mappers (PSM) at Craven Thompson.

Mr. Richard Crawford, P.S.M. will act as the overall Surveying and Mapping Lead.

Each Surveyor assigned as a lead surveyor will have the responsibility of overseeing the projects assigned to them from start to finish. They will all report to Mr. Crawford on a daily and/or weekly basis depending on the size and scope of the project. They will keep track of the budget, the scope and the timeframe to ensure each project is completed and delivered to the client in an efficient and timely manner. They will keep Mr. Crawford informed on any issues that may come up during the course of performing a survey so that whatever the issue is, it can be resolved quickly to prevent any delays. The PSMs are also the professionals that will sign and seal the survey work that falls under their direct supervision; ensuring their taking ownership and responsibility in regard to the quality and pride of the work performed.

Craven Thompson's Survey department will work closely with Cooper City on each project. Mr. Crawford will call, email, or visit the staff as each project is proposed in order to work out the details in the scope and make it clear to both sides. He has the training and experience to assist the city as much or as little as they want on any type of surveying and/or G.I.S. project providing a clear line of communication in getting things accomplished efficiently and cost effectively.

Our approach in performing any surveying and mapping task would follow a similar scenario as described below:



Mr. Crawford will be notified by Mr. Gibney of a potential project. He receives the initial scope and follows up with a review of the project on the Property Appraiser's website. He will search for information from recorded plats or other Public Record documents that are quickly available. He will analyze the site through aerial photography using either the Property Appraiser's aerials, Google Earth or Bing websites, or if not satisfied visiting the site in person.

Once the preliminary review is complete, which is usually within the next twenty-four (24) hours, Craven Thompson will prepare a proposal and a list of any questions that we may have for the City. The preliminary review is the most critical component in delivering a concise proposal that meets the client's needs and expectations. Preliminary review will expedite the process and assist us in understanding the City's needs and to provide a better end product. Craven Thompson will prepare a written proposal describing in detail the goal, the scope, the procedures, the equipment, the standards (generally Florida Regulations 5J-17.050 – Minimum Technical Standards for Site Surveying & Mapping), the timeframe, the approximate delivery date and the proposed cost.

Upon approval of the project proposal and after receiving the Notice to Proceed, Mr. Crawford will decide which professional surveyor will be assigned to the project. The survey lead will prepare a file with all of the existing records and documents associated with the project uncovered during the preliminary review. He will review the documents and prepare a preliminary calculation sheet piecing together all of the documents, the survey control, existing monumentation, area benchmarks, and the steps necessary to guide the survey field crew in performing their work.

The survey crew assigned to a particular project will remain with that project throughout the duration to maintain consistency on the project. They will be better able to understand the project requirements, the project goals, and the information necessary to achieve those goals.



Each day that the survey field crew is on the project, they will be collecting data, identifying and measuring structures, fences, utilities, pavement, trees, (and if necessary, survey boundary monumentation) that will aid in establishing boundaries and limits, and design constraints of the project. The field notes are delivered to a survey lead assigned to the project and are reviewed each day to determine completeness. Once the field crew believes that they have completed the assignment and the survey lead deems their work sufficient, they will be released from the project. During the field work process, the survey lead will be assembling the field notes on a daily basis.

The professional surveyor will finalize the survey drawing and deliver it to another PSM to perform the QA/QC, make suggestions, and provide an objective review of the overall project for completeness and assurance of quality. At this time, the City will be contacted by Mr. Crawford and a determination made of the number of signed and sealed drawings necessary for submittal.

## **SURVEY PROJECT APPROACH**

All of the surveys involving field crews will follow the above procedures. The types of survey and survey tasks will include:

### **❖ *Topographic Survey, Record As-Built Survey, Specific Purpose Survey:***

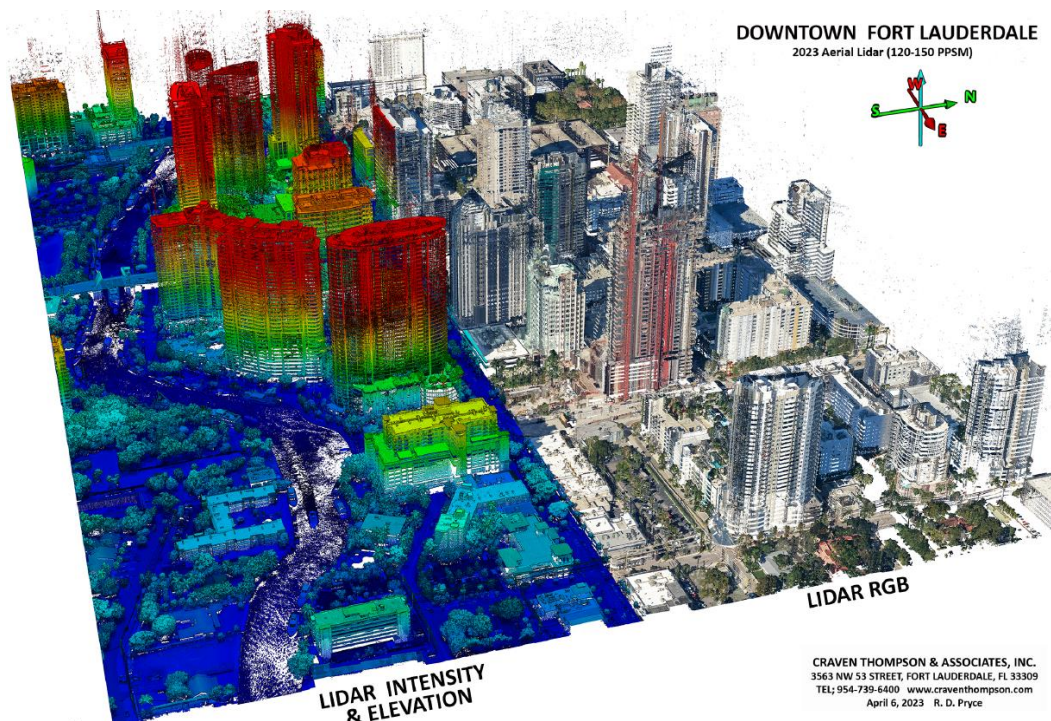
We pride ourselves being on the cutting edge of technology when deciding on which data collection method(s) to use when addressing the needs of our clients as to level of accuracy, cost and timeframe when proposing and executing a project. For these types of surveys, we use conventional data collection methods for smaller projects to be cost effective. For medium and large-scale tasks, we will analyze which method of data collection will be most efficient. These innovative methods would include GPS (Global Positioning System) Fast Static Control Survey and data collection, 3D fixed base Laser Scanning, Mobile LiDAR Scanning, Aerial Photogrammetry, and Aerial LiDAR Scanning. We have the capability to combine these diverse data acquisition methods resulting in quality and cost-effective products.

### ✧ *Sketch & Descriptions and Preparation of Easements:*

Our procedures for preparing sketch & descriptions and easements are virtually identical but dependent on the type of document required. These items are quite similar where a sketch & description could include any type of property, and easements would include a sketch & description of a portion of a certain property covering a utility, access, sidewalk or other type of improvement. The procedure would include reviewing the City's Detailed Work Authorization; determining the purpose of the sketch & description, research of the property to determine ownership limits which would also establish the limits of the sketch & description and/or easement. All sketch & descriptions are prepared using AutoCAD Civil 3D software. We also strive to prepare the base calculations and final document in the state plane coordinate system thus providing a seamless importation into current databases.

### ✧ *Laser Scanning:*

We often use 3D laser scanning to prepare topographic and as-built surveys of roadways, parking lots, buildings, utility plants and interiors of most any structure. The scanner will capture every aspect needed for design purposes in a point cloud of laser data, consisting of millions of 3D points. From this data we are able to prepare an AutoCAD drawing from any aspect in extreme detail in either 2D or 3D formats. This procedure consists of establishing survey control points at strategic locations around the property in an X-Y-Z format. With these control points set, the 3D scanner can then be positioned on, or near each of these controls and tied down to orientate the laser point clouds collected in the field. Multiple scanning positions are run that capture horizontal and vertical point positions in an X-Y-Z format detailing the facility. Then those scanned points will be registered together to form a seamless overall point cloud of the subject improvements. Each scanner position will capture everything in a 360-degree arc around the scanner in a 100-200-foot radius buffer, above and below the scanner along with digitally registered photographs of each area scanned. These points are then extracted and imported into an AutoCAD Civil3D base for preparation of the drawing.



### ✧ ***GPS Surveys:***

We use GPS (Global Positioning System) equipment on almost all of the surveys we prepare. This provides unified survey data that is easily brought into GIS databases with little need for adjustment. Our equipment ranges from hand-held models with 3-meter accuracy to the latest survey-grade receivers and base stations with sub-centimeter accuracy. We also manage our own Continuously Operating Reference Station (CORS) located at our office which is partnered with Trimble Navigation. This CORS, along with continually upgrading our field equipment, provides the ability to provide our clients with survey solutions faster, more accurately and at less cost. Types of GPS surveys usually are Project Network Control (field monumentation for localized survey networks) or Regional GPS Survey Control for large scale projects.

### ✧ ***Utilization of Existing Data or Management Systems:***

Our staff utilizes a multitude of existing data systems to manage different projects. We utilize our accounting system (Deltek 7.5) to manage the budget and the time from individual employees throughout the project, it provides regular updates and alerts by email to run the project efficiently. We utilize ArcGIS to collect existing data from City, County, and State agencies within the areas we are surveying to help organize and define the limits and the surrounding property information. We use various surveying software and hardware packages to do the Survey field and office operations as cost effectively as possible, and we utilize various governmental sites to access records and plans available for land information.

### ✧ ***Web/Cloud Based Solution Platforms:***

We use the Trimble Terra-Flex system which is a cloud-based solution that allows the organization and control of the field data collection process. The power behind Terra-Flex is the integration between data collection and Geographic Information System, GIS, through a plug-in within GIS. A geodatabase that is created within GIS full of domains and schemas is uploaded to the cloud-based Terra-Flex system. From there forms are created based on the geodatabase and crafted to fit the constraints of the project complete with drop down menus and check boxes. These forms dictate how the field crews are to perform their surveys and ensure that all necessary information is recorded including multiple pictures of the target objects if desired. The field crews are able to view and edit these forms directly from a cell phone and/or tablet which provides great versatility in the field. These forms are then synced back to the cloud-based Terra-Flex system as soon as the form editing is complete and sends that information straight into the GIS attribute tables in the office where real time processing and analysis can happen.

### ✧ ***Right-of-Way Surveys***

Using existing records such as rights-of-way maps, plats, dedications and maintenance maps, we will establish the limits of the corridor and survey the boundaries. The improvements in and adjacent to the right-of-way are then located with either 3D fixed base Laser Scanning, Mobile LiDAR Scanning, Aerial Photogrammetry, or Aerial LiDAR Scanning. We have utilized all of these methods in the past singly or in combination. These methods keep our field crews away from traffic; thereby, increasing the safety of our staff and the driving public.

### ✧ ***ALTA Surveys***

Part of the process of the Detailed Work Order will be to make available to the City the Minimum Standard Detail Requirements for ALTA/NSPS Land Title Surveys. We will work with the City to determine the exact purpose of the survey and tailor the final product that best suits the City's needs and meet the ALTA/ASPS requirements upon delivery.

### ✧ ***Canal and Embankments Cross Sections and Profiles (Hydrographic):***

We use the latest survey-grade sonar equipment integrated with our GPS data collection systems to collect thousands of points in the given body of water. Also, using GPS we collect the embankment topography and then import both sets of data into one seamless 3D drawing. This allows us to then cut cross-sections, profiles at any required position. We can also prepare quantity calculations of the subject site based on this data. The time to collect data and accuracy using our equipment and procedures has been greatly improved over previous standard survey methods.

### ✧ ***Field Reconnaissance:***

Prior to performing field reconnaissance, the Project Manager researches all available record documents such as plats, right-of-way maps, previous surveys, state and county survey resources in and around the subject site. The Project Manager then visits the site to help determine the level of effort and time it will take to complete the proposed task. Reconnaissance will determine availability of horizontal and vertical control along with any unique characteristics of the property that will affect the Detailed Work Order and Schedule.

### ✧ ***Underground Utilities Detection:***

We engage a Subsurface Utility Engineering (SUE) location sub-contractor to designate (paint and flag) the locations of the subject facility. We then horizontally locate the utility and plot on the base survey. During the design process, once proposed utilities are located, we will then stake the conflict points and locate test holes (vacuum excavation points) performed by the sub-contractor. This data is added to the survey and provided to the design engineer to resolve any issues in the design.

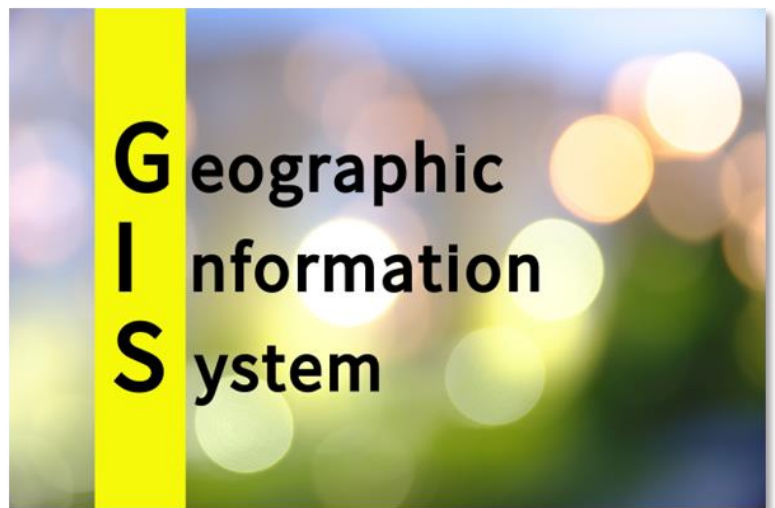
### ✧ ***Plan Review Services Including Plan Review Per F.S. Chapter 177:***

We are currently the plat reviewing surveyors for a number of Cities in South Florida. We have developed a simplified checklist that mirrors Florida Statutes, Chapter 177, Land Boundaries Platting Law. We have also prepared checklists for each City that directly corresponds with the specific platting code in the Code of Ordinances. These checklists made available to the owner and/or developer (plat applicant) at their initial meeting with the City greatly increases the completeness and consistency of preliminary and final plats thereby saving time and costs for both the City and platting client. In conjunction with the checklists, we also prepare red-lined mark-ups of the plats during the office review and field check of monumentation of the plat boundaries. The documents are all then scanned and emailed to the City and if desired, directly to the platting surveyor thus reducing the paper trail and time it takes to complete the plat process.

## APPROACH TO G.I.S.

Richard Crawford, P.S.M. will act as the overall GIS Coordinator and be the main point of contact. Mr. David Reyes, Senior GIS/CAD Technician will be assigned to this contract. Each surveyor has the responsibility of overseeing the individual GIS projects assigned to them from start to finish. They will report to Mr. Crawford on a daily and/or weekly basis depending on the size and scope of the project. They will keep track of the budget, the scope, and the timeframe to ensure each project is completed and delivered to the client in an efficient and timely manner. They will keep the GIS coordinator & project manager informed on any issues that may come up during the course of performing the GIS survey so that whatever the issue is, it can be resolved quickly to prevent any delays. The Professional Surveyors and Mappers acting in their GIS capacity are also the ones that are taking ownership and responsibility in regard to the quality and pride of the GIS work performed.

Craven Thompson's Survey/GIS Department and the project manager will work closely with the city staff on projects to identify the GIS scope and details. Mr. Crawford and his staff have the background, experience, and training in all types of surveying, mapping, GIS and LiDAR (Aerial, Terrestrial, and Mobile) to assist the city as much or as little as the city would require on any type of surveying and mapping or GIS project by providing a clear line of communication in getting things accomplished efficiently and cost effectively.



Craven Thompson will prepare a written proposal describing in detail the goal, the scope, the procedures, the equipment, the standards (Florida Administrative Code Rule 5J-17 - Standards of Practice for Surveying & Mapping), the timeframe, the approximate delivery date, and the proposed cost.

### ✧ **Data Collection:**

Survey/Data collection efforts will consist of Survey & G.I.S. personnel obtaining all survey control data for horizontal & vertical locations of all major utilities, storm, sanitary, water, electric, gas, and telecommunications. Storm and sanitary will include information at structures: rim, invert, pipe size and material, direction and condition, if needed. Our crews have collected on both handheld Global Navigation Satellite System (GNSS) Mapping Grade GPS or Survey Grade GNSS GPS units. This will include the latest integrated Trimble Geo 7X GNSS GPS receiver able to deliver up to 10cm real-time or post processed accuracy and/or Trimble R10/R8/R2 GNSS Rover Survey Grade receivers able to deliver centimeter/millimeter accuracy. It has been our experience that the newest GNSS GPS receivers yields the highest-grade accuracy required for this Solicitation and our ability to use multiple units provides us greater flexibility in a project like this.

All our survey data collection technicians at Craven Thompson are experienced with G.I.S. asset inventory projects. Their knowledge yields consistent and dependable execution of their duties while in the field. In addition to scheduling crews, our survey & G.I.S. coordinator perform random



audits to ensure that data is collected both according to schedule and project specifications. We manage all aspects of the fieldwork, troubleshooting and resolving any issues that may arise during the collection phase. The collection team will gather information and attributes for the assets required by the city. Our data collection personnel are constantly monitoring GPS status and positional accuracy as they progress along with project area.

Craven Thompson will create a template for attribute input applicable to the task to be installed on every data collector with each field technician. Upon recording the position, the technician will enter the mandatory and applicable attribute information into the template. Additionally, the data collection technicians will take a digital photograph of each of the referenced structures being surveyed. This photograph will become part of the G.I.S. database.

#### ✧ *G.I.S. Database Updates:*

Under the direction of the Lead G.I.S. Specialist, Richard Crawford, P.S.M., our G.I.S. technicians will download the field information collected by the data collection technicians and import it into an initial fieldwork ArcGIS geodatabase where it will be analyzed for data quality, precision, Quality Assurance / Quality Control (QA/QC) and then integrated into the master geodatabase for the project. The geodatabase schema for the utility locates will be based upon standards agreed to with the G.I.S. staff. Craven Thompson will incorporate the information into the existing G.I.S. geodatabase schema to include all attribute data, positional data, photographic data, and other relevant data gathered during the data collection phase. Craven Thompson will utilize their expertise and experience in survey & G.I.S. data collection techniques for conducting the field inspection, collection, and QA/QC process.

Craven Thompson also has the experience of taking decades of survey, as-built records, and data collection in both CAD and hard copy format and integrating them into an ArcGIS system database. Our survey & G.I.S. team has recently completed this task for the City of North Miami Beach, Fort Lauderdale for water, sanitary and drainage, the Seminole Reservation in Hollywood, and all of utilities at Port Everglades for Broward County. We have developed techniques setting hyperlinks in the G.I.S. database tied directly to the pipe and structure features in the G.I.S. system which makes them more accessible to the people who need them most. We are also experts in taking CAD files on multiple coordinate projections including assumed and local systems and getting them into the State Plane Coordinate System, Florida East Zone, NAD83 HARN and newer. An important part of the G.I.S. database development comes through easy access to past records within multiple departments in the Town. Through the G.I.S. database connectivity, these Record Drawings will continue to be utilized in the future and not lost in some file drawer or antiquated filing system. In order to assist managers that may not have GIS knowledge, we have also converted GIS projects into a Google Earth platform so they can access the GIS data into something more user friendly.

We will use standard surveying procedures to establish the horizontal and vertical control and define the boundary and topographic features throughout the project area. This will include a GPS Fast Static Control survey performed utilizing surrounding National Geodetic Survey (NGS) and/or Florida Department of Transportation (FDOT) control monumentation for both horizontal and vertical positioning. We have also performed unique projects using all type of LiDAR (Terrestrial, Mobile, and Aerial) on several cities and projects, including all of Greenacres, Hallandale Beach, Lauderdale Lakes, and currently in the process of collecting high density aerial LiDAR for the City of Fort Lauderdale covering an area of approximately 28,000 acres. We are going to use this for a massive drainage study that will take into account sea level rise.



The project surveyor will finalize any survey drawing in AutoCAD Civil 3D (latest version) or higher and all of the GIS will be performed in ArcGIS (latest version). Another registered surveyor will perform the QA/QC, make suggestions, and provide an objective review of the overall project for completeness and assurance of quality. At this time, the client will be contacted, and a determination made of the number of signed and sealed drawings necessary for submittal and the geodatabase updates.

## OPINION OF PROJECT COST

Essential to any cost containment effort is accurate and detailed cost estimation for any construction project to stay within budget. Plans and specifications must be well detailed and accurately represented.

Unforeseen conditions below the ground surface represent a significant volume of the change orders requested on a civil engineering roadway, water & sewer and/or stormwater project. Existing information must be thoroughly vetted and precisely represented in the early stages of the design so as to minimize revisions as the design progresses and to reduce unforeseen conditions during construction. Preliminary investigation of existing conditions costs significantly less than the cost of adjusting to the change during construction.

Craven Thompson uses an extensive library of unit costs for preparing our project cost estimates. These unit costs are based on our many recent municipal civil engineering project bids as well as the FDOT District 4 six-month and twelve-month bid averages. We also incorporate bid from other governmental agencies in the tri-county area.

The Covid pandemic created a condition where unit pricing of various items became extremely difficult. The availability of certain materials, or the availability of various items such as pumps created supply chain issues and created situations where some manufacturers placed surcharges on specific items and delivery lead times delayed projects. Over the past year or so, that volatility has somewhat stabilized. The accuracy of our estimates based on bids within the past year has been for the most part correct, and within ten percent of the actual bid amount.

## SCHEDULING METHODOLOGY

Craven Thompson proposes using the critical path method (CPM) for scheduling, with *Microsoft Project* software. This method calculates the minimum completion time for a project along with the possible start and finish times for the project activities. The critical path itself represents the set or sequence of predecessor/successor activities which will take the longest time to complete. The duration of the critical path is the sum of the activities' durations along the path. Thus, the critical path can be defined as the longest possible path through the "network" of project activities. The duration of the critical path represents the minimum time required to complete a project. Any delays along the critical path would imply that additional time would be required to complete the project. There may be more than one critical path among all the project activities, so completion of the entire project could be delayed by delaying activities along any one of the critical paths. Formally, critical path scheduling assumes that a project has been divided into activities of fixed duration and well-defined predecessor relationships. A predecessor relationship implies that one activity must come before another in the schedule.



## CURRENT WORKLOAD

The Craven Thompson business plan target composite utilization rate for the company is 75%. The targeted rate accounts for holiday, vacation, marketing, administration, illness, and other non-billable time. We employ a very small yet efficient number of administration personnel which contributes significantly to reducing our costs.

In the first half of 2024, Craven Thompson was at a company-wide utilization rate of 72%. Uncertainty since the pandemic and other economic issues has led to a smaller number of projects being issued by our municipal clients over the past few years, while some existing projects were placed on hold. At this point in time, our staff is under-utilized and has excess capacity to handle additional work. We see recovery from this situation as a gradual process and anticipate that for the next year or so we will slowly, but steadily increase our workload and perhaps approach a 73% - 74% utilization rate at the end of that period. This will still leave excess staff availability.

We commit to provide the necessary personnel and other resources required from Craven Thompson, Inc. identified in this proposal to serve Cooper City while meeting the City's needs, goals, timelines, budgets, and objectives.

The following is a list of current and projected medium to significant size projects under contract including the names of engineering personnel associated with each project. All engineers, and surveyors working on various projects are listed as being available to support to key personnel for this contract. Construction costs and percent complete are included in the list. The key personnel designated to serve the Cooper City contract **are shown as *italicized and bold***. Note that projects are in various phases such as: planning; design; permitting; bidding; and construction. Those identified but not italicized are other personnel not identified in the submittal that are available support to key personnel for this contract.

- **River Oaks Neighborhood Drainage**  
(95% Construction Complete)  
**Construction Cost:** \$25 million  
**Personnel on Project:**
  - ***Patrick Gibney, P.E.***
  - Jacob Schulman, P.E.
  - Robert Burkert, E.I.
  - Joshua Thomas
  - ***Brian Tull***
  - ***Rasiel Lopez***
- **Durrs Neighborhood Drainage Project**  
(33% Construction Complete)  
**Construction Cost:** \$25 million  
**Personnel on Project:**
  - Jacob Schulman, P.E. (PM)
  - Jailene Rivas
  - Robert Burkert, E.I.
  - Joshua Thomas
  - Mark Minter, P.S.M.
- **Plantation Utilities Continuing Services**  
(% Complete Varies)  
**Construction Cost:** Varies  
**Personnel on Project:**
  - Timothy Hall, P.E. (PM)
  - ***Nicole Pastre, P.L.A.***
  - ***Gary Tenn, P.E.***
  - ***Philip Joseph, P.E.***
  - Fareez Abraham, E.I.
  - ***Raymond Young, P.S.M.***
  - ***David Reyes***
- **Boca Woods Infrastructure Upgrade**  
(80% Complete Design & Permitting)  
**Construction Cost:** \$10 Million  
**Personnel on Project:**
  - Zach Gamble, P.E.
  - Kevin Menting, P.E.
  - Todd Rubino, E.I.



- **Utility Analysis Zone (UAZ) 108**  
(Under Const., Construction - 75% Complete)  
**Construction Cost:** \$15 Million  
**Personnel on Project:**
  - **Jeff LaBelle**
  - **Rasiel Lopez**
  - Craig Lusthaus
- **SW 48<sup>th</sup> Avenue Complete Streets Project** (90% Design Complete)  
**Construction Cost:** \$5 Million  
**Personnel on Project:**
  - **Gary Tenn, P.E. (PM)**
  - **Douglas Taylor, P.E.**
  - **Nicole Pastre, P.L.A.**
  - Fareez Abraham, E.I.
- **BCWWS District 3C**  
(80% Design Complete)  
**Construction Cost:** \$10 million  
**Personnel on Project:**
  - Glen Harrelson, P.E.
  - **Robert Connors, P.E.**
  - **Philip Joseph, P.E.**
  - Harry Palenzuela, E.I.
  - **Rasiel Lopez**
  - Kush Patel
- **CBWCD - Various Projects**  
(% Complete Varies)  
**Construction Cost:** \$Varies  
**Personnel on Project:**
  - **Gary Tenn, P.E. (PM - District Eng.)**
  - **Douglas Taylor, PE**
  - Kush Patel
  - Jailene Rivas
  - Joshua Thomas
  - **Brian Tull**
  - **Jeff LaBelle**
  - Craig Lusthaus
- **Swain Boulevard Roadway Improvements** (50% Design Complete)  
**Construction Cost:** \$3 Million  
**Personnel on Project:**
  - Zach Gamble, P.E. (PM)
  - **Douglas Taylor, P.E.**
  - **Scott Peavler, P.L.A.**
  - Robert Burkert, E.I.
  - Matthew Novack, E.I.
- **Innovative Technology Village Roadways** (95% Design Complete)  
**Construction Cost:** \$1.2 million  
**Personnel on Project:**
  - **Douglas Taylor, P.E. (PM)**
  - Kevin Menting, P.E.
  - **Nicole Pastre, P.L.A.**
  - **Nathan Raimondo**
  - **Raymond Young, P.S.M.**
  - Mark Minter, P.S.M.
  - **David Reyes**
- **Broward County Convention Center Expansion** (90% Design Complete)  
**Construction Cost:** \$14 Million  
**Personnel on Project:**
  - Timothy Hall, P.E. (PM)
  - Fareez Abraham, E.I.
  - **Raymond Young, P.S.M.**
  - **Richard Crawford, P.S.M.**
  - **Brian Tull**
- **Ranches Drainage Improvements**  
(Starting Construction)  
**Construction Cost:** \$9 Million  
**Personnel on Project:**
  - **Luis Pimentel, P.E. (PM)**
  - **Douglas Taylor, P.E.**
  - **Nicole Pastre, P.L.A.**
  - Jailene Rivas
  - Robert Burkert, E.I.
  - **Marshall Shedio**
- **Lift Stations 74 & 75 Projects**  
(45% Complete)  
**Construction Cost:** \$500,000.00  
**Personnel on Project:**
  - **Robert Connors, P.E.**
  - **Philip Joseph, P.E.**
  - Kush Patel
  - Harry Palenzuela, E.I.
  - **Richard Crawford, P.S.M.**
- **Oak Hill Drainage Improvements**  
(20% Design Complete)  
**Construction Cost:** \$10 Million  
**Personnel on Project:**
  - Glen Harrelson, P.E. (PM)
  - Harry Palenzuela, E.I.
  - Robert Burkert, E.I.
  - Matthew Novack, E.I.
  - Joshua Thomas

- **Orange Drive Corridor Improvements**  
(80% Design Complete)  
**Construction Cost:** \$10 Million  
**Personnel on Project:**
  - Glen Harrelson, P.E. (PM)
  - **Patrick Gibney, P.E.**
  - Harry Palenzuela, E.I.
  - Robert Burkert, E.I.
  - Matthew Novack, E.I.
  - Nicole Pastre, P.L.A.
  - Nathan Raimondo
- NW/SW 8<sup>th</sup> Avenue Complete Streets Project** (30% Complete)  
**Construction Cost:** \$5,250,000.00  
**Personnel on Project:**
  - Jacob Schulman, P.E. (PM)
  - **Nicole Pastre, P.L.A.**
  - Harry Palenzuela, E.I.
  - Kush Patel
  - Robert Burkert, E.I.
  - **David Reyes**
- **Three Island Boulevard Traffic Improvements Project**  
(75% Complete)  
**Construction Cost:** \$500,000.00  
**Personnel on Project:**
  - Jacob Schulman, P.E. (PM)
  - **Nicole Pastre, P.L.A.**
  - Harry Palenzuela, E.I.
  - Jailene Rivas
- **Seminole Tribe of Florida General Services**  
(Completion Varies)  
**Construction Cost:** Varies  
**Personnel on Project:**
  - **Luis Pimentel, P.E. (PM)**
  - Robert Burkert, E.I.
  - Harry Palenzuela, E.I.
  - Jailene Rivas
  - Joshua Thomas
  - **Richard Crawford, P.S.M.**
- **Fort Lauderdale Water Consent Order**  
(95% Complete)  
**Construction Cost:** Not Applicable  
**Personnel on Project:**
  - **Richard Crawford, P.S.M.**
  - Jacob Schulman, P.E.
- **Sunny Isles Beach Golden Shores Utility Undergrounding**  
(85% Complete - Design/Build)  
**Construction Cost:** \$8 Million  
**Personnel on Project:**
  - Timothy Hall, P.E. (PM)
  - Mark Minter, P.S.M.
  - **Marshall Shedio**
- **Plantation Fashion Mall**  
(85% Design Complete)  
**Construction Cost:** \$2 Million (Sitework)  
**Personnel on Project:**
  - Timothy Hall, P.E. (PM)
  - **Nicole Pastre, P.L.A.**
  - Harry Palenzuela, E.I.
  - Fareez Abraham, E.I.
  - Mark Minter, P.S.M.
- **Ternbridge Ditch Drainage Improvements**  
(90% Construction Complete)  
**Construction Cost:** \$2,000,000.00  
**Personnel on Project:**
  - **Luis Pimentel, P.E. (PM)**
  - **Douglas Taylor, PE.**
  - Robert Burkert, E.I.
- **Various other Private Projects**  
(% Complete - Varies)  
**Construction Cost:** Varies  
**Personnel on Project:**
  - **Patrick Gibney, P.E.**
  - **Chad Edwards, P.E.**
  - **Scott Peavler, P.L.A.**
  - **Erik Schofield, P.L.A.**
  - **Nathan Raimondo**
  - **Gary Tenn, P.E.**
  - Todd Rubino, E.I.
  - Kush Patel
  - Joshua Thomas
  - Matthew Novack, E.I.
  - **Raymond Young, P.S.M.**
  - **Richard Crawford, P.S.M.**
  - Mark Minter, P.S.M.
  - **David Reyes**
  - **Brian Tull**
  - **Craig Lusthaus**
  - **Jeff LaBelle**

## AVAILABLE FACILITIES TECHNOLOGY CAPABILITIES AND RESOURCES

### AVAILABLE FACILITIES

Craven Thompson has two office locations:

**Corporate Main Office:**

3563 NW 53<sup>rd</sup> Street  
Fort Lauderdale, Florida 33309  
Phone: (954) 739-6400

**Branch Office:**

4723 W. Atlantic Avenue, Suite A12  
Delray Beach, Florida 33445  
Phone: (561) 501-5718

### TECHNOLOGICAL CAPABILITIES AND RESOURCES

In addition to conventional boundary topographic and construction surveys, Craven Thompson has vast experience in providing the latest in 3D Laser Scanning – High-Definition Surveying, Geodetic Control, PLSS Retracement, Hydrographic, Cadastral, Photogrammetric Control, Right-of-Way and Construction Surveys. Through the utilization of our Global Positioning System, 3D Laser Scanner and total stations with state-of-the-art data collectors, our survey data can be imported into a CAD or GIS environment which can be plotted or transferred to our clients via email, FTP, or on CD/DVD. Craven Thompson continues to refine and adapt CAD and GIS to a broad spectrum of uses. This blend of traditional and the newest technology, with personalized service, forms the core of every Craven Thompson project.

#### *Software and Hardware:*

Craven Thompson continues to update all of the needed software as the new versions are available. These programs include, but are not limited to:

- Autodesk Civil 3D 2019-2022
- Autodesk Navisworks Freedom 2019-22
- Transoft Solution AutoTURN 10
- ESRI Arc GIS 10.8 Standard and Advanced
- Applied Imagery - Quick Terrain Modeler
- Global Mapper Pro
- Bentley WaterCAD Connect Edition
- Bentley SewerCAD Connect Edition
- EPA PCSWMM Hydro
- Streamline Technologies ICPR
- Custom designed Engineering Calculation Software
- Trimble Geospatial
- Trimble Terraflex
- Leica Cyclone 2021\ 3D Laser Scan Software
- Leica Jetstream 2021\ AutoCAD Server application
- Leica Cloudworx 2021\ AutoCAD Scan Software

**Servers:** Our server infrastructure is running two Dell PowerEdge Host Servers running VMware Virtual Software. These 2 servers run 8 virtual servers running Windows 2008 R2 and Windows 2012 R2 server software and connect to a 96 Terabyte SAN (Storage Attached Network) device configured with RAID 6 redundancy which provides us with a high availability of file access and fault tolerance. All data is backed up to a Quantum Ultrium 4 SCSI tape drive with the capacity to backup up to 9.6 TB compressed data.



**Network:** Our network infrastructure consists of the latest Cisco Catalyst switches and CAT 6 network cabling with speeds up to 1 GBS.

**Workstations:** Our workstations are Dell Precision line workstations all running Windows 10 Professional with either Xeon or i7 Dual and Quad Core processors with solid state hard drives and a minimum 16 Gigabytes of RAM. Production workstation utilizes a minimum 4 GB video cards with dual 24" high resolution monitors.

**Plotting:** We have an in-house Ricoh MP W8140 high-capacity wide format plotter with color scanning capability and two Hewlett Packard High Resolution 1050 Design Jet plotters.

### ***Surveying Department Resources and Equipment:***

A complete list of Craven Thompson equipment and software are as follows:

#### ▪ **Craven Thompson Vehicles**

Eight (8) Ford F-150 Pick-ups fully equipped for Surveying Crews  
Two (2) - 16-foot John Boat w/motor

#### ▪ **Craven Thompson Field Data Collection GPS**

One (1) Trimble R8 GNSS GPS Systems Base Station  
Six (6) Trimble GNSS RTK GPS Systems [Three (3) Trimble R2 and Three (3) Trimble R10]  
One (1) Trimble R9 GNSS GPS Base Station with Trimble VRS Network  
Five (5) Trimble DiNi Digital Level 0.3mm  
One (1) Trimble TSC3 data collectors with Trimble Access Software  
Six (6) Trimble TSC7 data collectors with Trimble Access Software  
Two (2) Intuicom bridge radios

#### ▪ **Field Data Collection**

Three (3) Trimble Robotic Total Stations  
Two (2) Trimble Total Stations  
Ten (10) Radios  
Seven (7) Spectra Precision 3L Data Collectors with Survey Pro Software  
Six (6) Leica Total Stations  
Seven (7) Leica Levels  
Two (2) Apple IPAD Pro  
Two (2) Android Tablets  
One (1) Trimble GEO7x GIS Data Collection Unit

#### ▪ **Sonar Equipment**

One (1) Hydrolite Single Beam Echo Sounder  
One (1) Hydrone Portable Hydro-Lite Boat

#### ▪ **3D Laser Scanning**

Leica C10 Laser Scanner - 3D Laser High-Definition Survey System  
Cyclone 2021 Scanning Software  
CloudWorx Pro 2021 for AutoCAD

## UNDERSTANDING OF CITY'S GOALS, NEEDS, AND OBJECTIVES

Craven Thompson understands that Cooper City is seeking professional firms to perform consulting services under the Consultant Competitive Negotiation Act (CCNA) limits of no more than \$500,000.00 in fees for consulting and no more than \$4,000,000.00 in construction cost per project, and also for specific capital projects. These professional consulting services include: engineering, architecture, electrical/ automation engineering, right-of-way and traffic engineering, construction engineering, civil engineering, environmental permitting and engineering, preparation of plans and specifications, construction management, construction inspection engineering, design and/or construction supervision and administration, engineering plan review, and Geographic Information Systems (GIS) for engineering, utilities, and development services.

Projects will be performed for the City for projects including the land acquisition, improvement or operation of City lands, buildings, facilities, utilities, and roads, and the administration of City services.

It is the City's goal to effectively manage the City's infrastructure necessary for the sustainable economic and social vitality of the city. This includes quality management of its' facilities, roadways, and utilities (potable water, sanitary sewers, and stormwater drainage) and to provide safe, accessible public facilities and transportation systems.

## VISION IDEAS AND METHODOLOGY

Craven Thompson believes that the foundation of successful projects are effective collaboration and clear communication. Working productively with a range of team members, including architects, contractors, and clients, is essential. By encouraging open communication, we can ensure a shared understanding among all stakeholders, leading to streamlined workflows and efficient decision-making processes. Regular project meetings, clear documentation, and adept use of digital collaboration tools can augment communication and foster synergy within the team.

In engineering and landscape design, nothing rivals the importance of quality assurance/quality control. Neglecting even the smallest component of a design can result in significant consequences. Whether it's rigorously checking calculations, scrutinizing design drawings and specifications, or carrying out comprehensive site inspections, our focus on precision leads to flawless project execution. Adhering to industry standards and regulations, conducting thorough quality checks, and implementing robust quality management systems enable us to ensure our projects are fundamentally sound, environmentally conscious, and safe for public use.

Craven Thompson designs for constant innovation and the creation of solutions that cater to the ever-changing demands of the South Florida area. As awareness of climate change grows, along with the urgency to protect our environment, we design infrastructure systems that limit impact on the surrounding areas. We endeavor to create designs that ensure efficient resource use, minimize waste, and reduce pollution.

Beyond sustainability, we also tackle the challenge of designing resilient infrastructure capable of withstanding natural disasters and extreme events. Our designs factor in potential risks floods and hurricanes and devise strategies to maintain the safety and functionality of our infrastructure. By employing innovative materials, and advanced design methods, we can develop designs that advance sustainability and resilience.

As urbanization in Florida intensifies, we must design infrastructure for ever larger and more dense populations. This involves not just designing roads, bridges, and buildings, but also developing sustainable transportation systems and efficient utilities. When creating urban infrastructure, we have to consider factors like population density, traffic flow, and environmental impact.



An aerial photograph of a city featuring a river that winds through the center. Several tall, modern skyscrapers are visible, with the two most prominent ones in the upper center highlighted in a bright red color. Other buildings of varying heights and colors (yellow, green, blue) are scattered throughout the urban landscape. A dense area of green trees is located in the lower-left quadrant, and a bridge is visible in the lower-right. The overall scene is a high-angle, wide-area view of an urban environment.

Tab 6

# Exhibit A / References

**Civil Engineering**

### Water/Wastewater/Storm-water

## Architecture

**Exhibit A**  
**Services to be Considered**  
**Landscape Architecture**

## Discipline: Landscape Architecture

- (Y) Yes, my firm would like to be considered for services within the above-referenced discipline that are marked below with an “X”, or otherwise listed.**
- Y No, my firm would not like to be considered for services within the above-referenced discipline.**

*NOTE: Check only those services your firm will provide as a prime consultant. Do not include outside or sub-consultants.*

**CONSIDER MY FIRM FOR THE SERVICES MARKED BELOW WITH AN "X".**

[illegible]

**Geotechnical**

**Discipline: Geotechnical**

- (Y) No, my firm would not like to be considered for services within the above-referenced discipline.**

**NOTE:** Check only those services your firm will provide as a prime consultant. Do not include outside or sub-consultants.

**CONSIDER MY FIRM FOR THE SERVICES MARKED BELOW WITH AN "X".**

[illegible]

## Transportation/Transit

**Discipline: Transportation/Transit**

- (Y) No, my firm would not like to be considered for services within the above-referenced discipline.**

**NOTE:** Check only those services your firm will provide as a prime consultant. Do not include outside or sub-consultants.

**CONSIDER MY FIRM FOR THE SERVICES MARKED BELOW WITH AN "X".**

[illegible]

### Mechanical, Electrical, Plumbing (MEP)

Exhibit A  
Services to be Considered  
Other

Discipline: Other Services

- ☒ Yes, my firm would like to be considered for services within the above-referenced discipline that are marked below with an “X”, or otherwise listed.
- ☐ No, my firm would not like to be considered for services within the above-referenced discipline.

*NOTE: Check only those services your firm will provide as a prime consultant. Do not include outside or sub-consultants.*

CONSIDER MY FIRM FOR THE SERVICES MARKED BELOW WITH AN “X”.

	Bridge
	Unsafe Structures
x	Land Surveying & Mapping
x	GIS for Engineering, Utilities, and Development Services
	Construction Engineering Inspection Services FDOT Certified
x	Construction Engineering Inspection Services Non-FDOT Certified
x	Engineering Plan Review
x	Project Management
x	Owners Representative
x	Cost Estimating
	Grant Management
	Electrical Engineering Designs
	Other (please list):

**DISCIPLINE: CIVIL ENGINEERING****Reference No. 1****Client Contact:**

Manga Ebbe, Construction Program Manager  
City of Hallandale Beach  
630 NW 2<sup>nd</sup> Street  
Hallandale Beach, Florida 33009  
(954) 457-3043 / [mebbe@cohb.org](mailto:mebbe@cohb.org)

**Name of Project: NE 14<sup>th</sup> Avenue Streetscape Project**

**Description of Work:** Craven Thompson provided surveying, civil engineering, landscape architecture and CEI services for the project. The project area is along NE 14<sup>th</sup> Avenue between Hallandale Beach Boulevard and Atlantic Shores Boulevard. The project corridor is approximately 3,400 linear feet. The project included: Mill and overlay entire roadway (including pavement markings); on east side of NE 14<sup>th</sup> Avenue, mill and overlay off-street parking (including pavement markings) and provided new Type 'D' curbed landscape bulb-outs to delineate parallel parking and include canopy trees, shrubs, groundcover and spray and drip irrigation; bike lanes on both sides of roadway; curbing or other treatments at existing driveway entrances; canopy trees with ground cover intermingled and drip irrigation on the west side of NE 14<sup>th</sup> Avenue; landscape screening along north, south, and west sides of the two (2) storm water pump stations. Landscaping along the west side of the enclosure was limited due to the close proximity of the screen fence to the existing sidewalk; PaveDrain concrete block access drives on each side of the two (2) storm water pump stations; mid-block crosswalks; and resting areas (benches, trash cans, etc.).

**Year the Project was Completed:** 2019

**Total Fees Paid to Firm:** \$150,115.00

**Estimated Construction Cost:** \$1,344,560.00

**Actual Construction Cost:** \$1,157,206.00

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**Reference No. 2****Client Contact:**

Salvador Zuniga, P.E., City Engineer  
City of Miramar. Engineering & Strategic Development  
2200 Civic Center Place  
Miramar, Florida 33025  
(954) 602-3323 / [sezuniga@miramarfl.gov](mailto:sezuniga@miramarfl.gov)

**Name of Project: Miramar Historical Area Complete Streets, Phase II**

**Description of Work:** Craven Thompson & Associates was selected by the City of Miramar to survey, design, permit, and provide construction services for Phase II of their Historical Area Complete Streets Project. The project included surveying, landscape and engineering design, permitting and CEI services for complete streets bounded by Pembroke Road to the north, County Line Road to the south, SW 62<sup>nd</sup> Avenue to the west, and State Road 7 to the east. The project included eight (8) streets in the Historical Area. The improvements included: sidewalks, ADA ramps, crosswalks, pedestrian level lighting, landscaping and hardscape. The City of Miramar received a grant through the Broward Redevelopment Program for the improvements.

**Year the Project was Completed:** 2019

**Total Fees Paid to Firm:** \$149,634.00

**Estimated Construction Cost:** \$1,800,000.00

**Actual Construction Cost:** \$1,900,000.00



**Reference No. 3****Client Contact:**

Tom Donaudy, Director  
South Florida Operations  
Williamson Dacar Associates  
851 Broken Sound Parkway, Suite 133  
Boca Raton, Florida 33487  
(561) 609-4544 / [tdonaudy@Williamsondacar.biz](mailto:tdonaudy@Williamsondacar.biz)

**Name of Project: Parkland Library Expansion**

**Description of Work:** The City's objective was to have design professionals design a functional and effective expansion to the existing City Library facility located at the Municipal Complex, 6620 University Drive, Parkland, Florida with a strong emphasis on efficient space utilization and effective site aesthetics. The size of the expansion was 6,900 square feet, which included a separate space for children and families, a multi-purpose program area, and fit within the existing footprint owned by the City of Parkland. Craven Thompson provided professional surveying, landscape architecture and civil engineering services for the library project.

**Year the Project was Completed:** 2020

**Total Fees Paid to Firm:** \$58,900.00 (Civil only)

**Estimated Construction Cost:** \$3,750,000.00

**Actual Construction Cost:** \$3,521,7440.00

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**Reference No. 4****Client Contact:**

Samuel May, Public Works Utilities Director  
City of North Lauderdale  
701 SW 71<sup>st</sup> Avenue  
North Lauderdale, Florida 33068  
(954) 597-4756 / [smay@nlauderdale.org](mailto:smay@nlauderdale.org)

**Name of Project: Kimberly Boulevard East Complete Streets Project**

**Description of Work:** The project is known as the Kimberly Boulevard Complete Streets Project from State Road 7 to Rock Island Road. The total length of roadway is 5,900 linear feet and consisted of four total lanes, two eastbound and two westbound with a landscaped median. The improvements included roadway reconstruction, milling & overlay, safety enhancements including modifying existing sidewalk access ramps for ADA compliance, the construction of a roundabout at SW 64th Terrace, the addition of traffic calming devices, curbing of identified existing medians, drainage modifications, and the reduction from two to one lane both eastbound and westbound plus the addition of bicycle lanes in each direction from SW 70<sup>th</sup> Avenue to SW 10<sup>th</sup>. The existing pavement displayed alligator cracking, block cracking, transverse cracking and rutting at many locations within the project limits. Craven Thompson along with geotechnical sub-consultant, Absolute Civil Engineering Solutions, performed and evaluated cores of the existing pavement to determine the proper repair method. As a result of this, various segments were completely reconstructed while others were simply milled and overlaid. Craven Thompson provided surveying, landscape architectural, civil engineering services, construction administration and inspection for this Broward County Surtax project

**Year the Project was Completed:** 2023

**Total Fees Paid to Firm:** \$217,757.00

**Estimated Construction Cost:** \$2,000,000.00

**Actual Construction Cost:** \$2,213,195.



**Reference No. 5****Client Contact:**

Ms. Priscilla Cygielnik, P.E., City Engineer  
City of Deerfield Beach, Environmental / Engineering  
200 Goolsby Blvd.  
Deerfield Beach, Florida 33442  
(954) 480-4432 / [pcygielnik@deerfield-beach.com](mailto:pcygielnik@deerfield-beach.com)

**Name of Project: Deerfield Beach Sidewalk CDBG Project**

**Description of Work:** Craven Thompson prepared Schematic Level Plans, cross-sections, and details for approximately 12,200 linear feet of 5' wide sidewalk located at 20 locations within the city. The latest available Broward County aerials were utilized as the base for the schematic plans. Craven Thompson then prepared contract documents to include plans, technical specifications and estimated quantities for the civil portion of the proposed project

**Year the Project was Completed:** 2019

**Total Fees Paid to Firm:** \$25,625.00

**Estimated Construction Cost:** \$170,000.00

**Actual Construction Cost:** \$152,254.00.

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**DISCIPLINE: WATER / WASTEWATER / STORM-WATER****Reference No. 1****Client Contact:**

Rares Petrica, MBA, P.E., Senior Project Manager  
City of Fort Lauderdale, Public Works Department  
101 NE 3<sup>rd</sup> Avenue, Suite 1410  
Fort Lauderdale, Florida 33301  
(954) 828-6720 / [rpetrica@fortlauderdale.gov](mailto:rpetrica@fortlauderdale.gov)

**Name of Project: River Oaks Neighborhood Drainage Project**

**Description of Work:** Craven Thompson & Associates provided surveying, developed construction documents (civil engineering - design, permitting, & CEI services) for the neighborhood. Craven Thompson was a sub-consultant to Hazen Sawyer for design, permitting, and CEI services for the River Oaks Neighborhood Drainage Improvements in the City of Fort Lauderdale. The River Oaks neighborhood is located east of I-95 and South Fork New River and is bounded by State Road 84 to the south, Davie Road to the north, and SW 9<sup>th</sup> Avenue to the east. The neighborhood occupies a total area of approximately 518-acres. In addition, Craven Thomson designed nutrient separating baffle boxes (NSBB), and STORMCEPTOR water quality structures. Improvements included: 12,677 linear feet of swale re-grading, 5,346 linear feet of storm pipe removal, removal of 251 storm drainage structures, the installation of 90 linear feet of 15" diameter storm sewer, 4,374 linear feet of 18" diameter storm sewer, 4,675 linear feet of 24" diameter storm sewer, 1,771 linear feet of 36" diameter storm sewer, 145 linear feet of 48" diameter storm sewer, 3,129 linear feet of 66" diameter storm sewer, 1,056 linear feet of 72" diameter storm sewer, 2,640 linear feet of 24" diameter exfiltration trench, the installation of 236 new drainage structures, two STORMCEPTER water quality structures, one TIDEFLEX backflow prevention valve, and 4,219 linear feet of sidewalk. The project also included one small duplex stormwater pump station, and one large stormwater pump station.

**Year the Project was Completed:** 2024

**Total Fees Paid to Firm:** \$3,987,820.00

**Estimated Construction Cost:** \$29,000,000.00

**Actual Construction Cost:** \$25,043,981.00



**Reference No. 2****Client Contact:**

Jeff Jiang, P.E., Assistant Director, Public Utilities / Engineering  
City of Hollywood, Public Utilities  
1621 North 14<sup>th</sup> Avenue  
Hollywood, Florida 33020 / (954) 921-3930 / [fjiang@hollywoodfl.org](mailto:fjiang@hollywoodfl.org)

**Name of Project: Lift Station E-08 Rehabilitation Project**

**Description of Work:** Craven Thompson provided a survey (laser scan) as-built of the existing lift station, assessed the condition of the existing lift station, provided calculations, design, permitting and CEI services for the new lift station. Lift Station E-8 is a City of Hollywood master sewage pump station serving the eastside of the City of Hallandale Beach. It was near the end of its useful life and consisted of 2 dry pit pumps with normal electrical motor that are installed on the 2nd Floor of a Submerged Pump Wetwell configuration. During heavy rain events such as hurricanes, the wet well surcharged and the wastewater entered the pump room, which rendered the lift station un-operational. To solve ongoing operational issues and maintain continuous operation of this critical pump station, a new triplex submersible lift station was designed and constructed that replaced the existing LS E-8. In order to meet the future growth from Hallandale Beach area, the pump size was increased to 3 - 70 HP pumps, a 12' diameter wet well as well as other related improvements. The new pump station has a standby generator located on site to assure operation during power loss.

**Year the Project was Completed:** 2024

**Total Fees Paid to Firm:** \$271,249.00

**Estimated Construction Cost:** \$3,250,000.00

**Actual Construction Cost:** \$3,492,641.00

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**Reference No. 3****Client Contact:**

Thomas Good, District Manager  
Central Broward Water Control District  
8020 Stirling Road  
Hollywood, Florida 33024  
(954) 432-5110 / [districtmanager@centralbrowardwcd.org](mailto:districtmanager@centralbrowardwcd.org)

**Name of Project: Central Broward Water Control District - District Engineer**

**Description of Work:** Craven Thompson & Associates has served as the District Engineer for the 22 square mile Central Broward Water Control District (CBWCD) since March 2007. In this capacity, we review and recommend approval of all drainage projects within the CBWCD; review variance requests; serve on the Development Review Committee; attend Board meetings; and prepare construction plans for capital improvement projects. Services to the District include Plan and Constructability Review; engineering ICPR studies and reports; plan review, surveying; design & permitting for capital improvement projects; construction services; inspection services; and meeting attendance.

**Year the Project was Completed:** 2007 to Present

**Total Fees Paid to Firm:** Varies by Year

**Estimated Construction Cost:** Numerous Projects

**Actual Construction Cost:** Numerous Projects



**Reference No. 4****Client Contact:**

Jonathan Vogt, Town Engineer  
Town of Davie  
6591 Orange Drive  
Davie, Florida 33314  
(954) 797-1137 / [Jonathan\\_vogt@davie-fl.gov](mailto:Jonathan_vogt@davie-fl.gov)

**Name of Project: Davie Eastside Master Infrastructure, Phases 2 & 3**

**Description of Work:** The project is composed of approximately 340 acres within the CRA, east of Davie Road, north of Orange Drive, south of SW 36<sup>th</sup> Court and west of SW 53<sup>rd</sup> Avenue. This project provided infrastructure for the development of a portion of the Downtown Master Plan Area as well the redevelopment of SW 41<sup>st</sup> Court. The basic infrastructure work consisted of replacement of the existing water distribution system and new installation of sanitary sewer system and drainage system.

The drainage/roadway work consisted of:

- 22,763 linear feet of roadway reconstruction
- 41,000 square yards of swale regrading
- 18,940 linear feet of storm sewer
- 12,450 square yards of sidewalk
- 7,400 square yards of driveway restoration
- 146 storm structures
- 3 outfalls
- 1 control structure
- The work also includes landscaping

The water distribution included:

- 14,800 linear feet of 6" diameter main
- 5,075 linear feet of 8" diameter main
- 5,140 linear feet of 12" diameter main
- Abandon & grout 11,450 LF of existing watermain in place
- 50 fire hydrants, 154 gate valves
- 40,400 linear feet of water service piping on private property

The sanitary improvements included:

- 11,455 linear feet of 8" diameter pipe
- 40 sanitary manholes
- 2,945 linear feet of 16" diameter forcemain

Craven Thompson & Associates performed surveying, subsurface locates, civil design and permitting, landscape architecture, preparing construction documents, bid assistance, and construction engineering services.

**Year the Project was Completed:** 2019

**Total Fees Paid to Firm:** \$2,564, 860.00

**Estimated Construction Cost:** \$13,200,854.00

**Actual Construction Cost:** \$13,275,149.00



**Reference No. 5****Client Contact:**

Mike Hagerty, PE, LEED AP, Engineering Unit Supervisor  
Broward County Water & Wastewater Services  
2555 W. Copans Road  
Pompano Beach, Florida 33069  
(954) 831-3217 / [mhagerty@broward.org](mailto:mhagerty@broward.org)

**Name of Project: Utility Analysis Zone 122 Project**

**Description of Work:** Craven Thompson surveyed the project area, modeled the systems using SewerCAD and WaterCAD as well as created the construction documents, provided permitting, assisted with bidding and provided CEI services for the infrastructure rehabilitation project. Utility Analysis Zone (UAZ) 122 is a one hundred and sixty (160) acre area bounded by the SFWMD C-13 Canal to the north, NW 47<sup>st</sup> Avenue to the east, West Oakland Park Boulevard to the south and the Florida Turnpike to the west in the City of Lauderdale Lakes, Florida. The project included the construction of a sanitary sewer collection system consisting of:

- 19,345 linear feet of 8" gravity main
- 1,350 linear feet of 10" gravity main
- 4,800 linear feet of 8" force main
- 105 service laterals

The water distribution system improvements included:

- 11,190 linear feet of 6" main
- 10,875 linear feet of 8" main
- 5,205 linear feet of 10" main
- 3,690 linear feet of 12" main
- 630 linear feet of 16" main
- abandonment and grouting of 25,435 LF existing watermain
- construction of 66 water services

In addition, the project involved 30,600 linear feet of roadway reconstruction along with right-of-way restoration.

**Year the Project was Completed:** 2024

**Total Fees Paid to Firm:** \$2,818,348.00

**Estimated Construction Cost:** \$15,125,153.00

**Actual Construction Cost:** \$13,705,609.00



## DISCIPLINE: LANDSCAPE ARCHITECTURE

### Reference No. 1

**Client Contact:**

Alan Gavazzi, Capital Projects Director  
City of Sunrise, Utilities Department  
Public Works Division, Capital Projects Section  
777 Sawgrass Corporate Parkway  
Sunrise, Florida 33325 / (954) 572-2487 / [agavazzi@sunrisefl.gov](mailto:agavazzi@sunrisefl.gov)

**Name of Project: Sunrise Sportsplex**

**Description of Work:** Craven Thompson was selected by the City of Sunrise as the Prime Consultant to oversee all professional services including professional Surveying, Landscape Architectural, Civil Engineering, Architectural and Geotechnical Services for the proposed 16.5-Acre (bond-funded) Athletic Complex located at Pine Island Road and NW 50th Street.

In general, the project included:

- 4 Baseball / Softball Fields
- 1 Multi-Use Soccer / Football Field
- Hard covered dugouts
- Bleachers with cantilevered shade canopies
- Centralized 2-story concession, restroom, meeting space & scorer's bldg.
- 1 restroom / maintenance bldg. for the Soccer Fields
- Two (2) playgrounds with shade structures
- Sports lighting for all fields
- Batting cages
- 2 parking lots with entry signage
- Southbound Right turn lane on Pine Island Rd.
- Pedestrian connections to West Pine Middle School for shared use facilities agreement

**Year the Project was Completed:** 2019

**Total Fees Paid to Firm:** \$853,771.00

**Estimated Construction Cost:** \$11,000,000.00

**Actual Construction Cost:** \$10,182,000.00

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### Reference No. 2

**Client Contact:**

Liz Aguiar, Principal Planner / Director of Sustainable Development  
City of Coconut Creek, Sustainable Development Department  
4800 West Copans Road  
Coconut Creek, Florida 33063  
(954) 973-6756 / [LAguiar@coconutcreek.net](mailto:LAguiar@coconutcreek.net)

**Name of Project: Landscape Plan Review Services**

**Description of Work:** Craven Thompson & Associates provides the City of Coconut Creek landscape consulting services in regards to Landscape plan reviews. The services provided include full DRC reviews, Administrative Approval reviews, Tree Removal/ Relocation reviews, and other additional landscape matters as they pertain to City landscape codes.

**Year the Project was Completed:** 2013 - Present

**Total Fees Paid to Firm:** Varies by Year

**Estimated Construction Cost:** Numerous Tasks

**Actual Construction Cost:** Numerous Tasks



**Reference No. 3****Client Contact:**

Manga Ebbe, Construction Program Manager  
City of Hallandale Beach  
630 NW 2<sup>nd</sup> Street  
Hallandale Beach, Florida 33009  
(954) 457-3043 / [mebbe@cohb.org](mailto:mebbe@cohb.org)

**Name of Project: NE 14<sup>th</sup> Avenue Streetscape Project**

**Description of Work:** Craven Thompson provided surveying, civil engineering, landscape architecture and CEI services for the project. The project area is along NE 14<sup>th</sup> Avenue between Hallandale Beach Boulevard and Atlantic Shores Boulevard. The project corridor is approximately 3,400 linear feet. The project included: Mill and overlay entire roadway (including pavement markings); on east side of NE 14<sup>th</sup> Avenue, mill and overlay off-street parking (including pavement markings) and provided new Type 'D' curbed landscape bulb-outs to delineate parallel parking and include canopy trees, shrubs, groundcover and spray and drip irrigation; bike lanes on both sides of roadway; curbing or other treatments at existing driveway entrances; canopy trees with ground cover intermingled and drip irrigation on the west side of NE 14<sup>th</sup> Avenue; landscape screening along north, south, and west sides of the two (2) storm water pump stations. Landscaping along the west side of the enclosure was limited due to the close proximity of the screen fence to the existing sidewalk; PaveDrain concrete block access drives on each side of the two (2) storm water pump stations; mid-block crosswalks; and resting areas (benches, trash cans, etc.).

**Year the Project was Completed:** 2019

**Total Fees Paid to Firm:** \$150,115.00

**Estimated Construction Cost:** \$1,344,560.00

**Actual Construction Cost:** \$1,157,206.00

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**Reference No. 4****Client Contact:**

Linda Di Salvio, TCMA Administrator  
The Township Community Master Association, Inc.  
2424 Lyons Creek  
Coconut Creek, Florida 33063  
(954) 973-8094 / [tcmatownship@aol.com](mailto:tcmatownship@aol.com)

**Name of Project: Township Buffer**

**Description of Work:** The Township Buffer Restoration project is a 5-year multi-phase project to reestablish and improve The Township's buffers along the main arterial roadways in the City of Coconut Creek, as well as the major internal neighborhood roads within The Township. Along with the prepared construction documents, the design project included a comprehensive set of guidelines to provide direction for the buffer restoration, which was developed through coordination with City Staff and The Township.

**Year the Project was Completed:** 2020

**Total Fees Paid to Firm:** Varies by Year (one phase each year for five years)

**Estimated Construction Cost:** Varied by phase

**Actual Construction Cost:** Varied by phase



**Reference No. 5****Client Contact:**

Lori Douvris, Project Manager  
City of Oakland Park  
5399 N. Dixie Highway, Suite 3  
Oakland Park, Florida 33334  
(954) 630-4479 / [lori.douvris@oaklandparkfl.gov](mailto:lori.douvris@oaklandparkfl.gov)

**Name of Project: Stunson Nature Trail**

**Description of Work:** The City of Oakland Park recently converted an underutilized piece of land used primarily for the storage of stormwater runoff into a park demonstrating the region's various ecological zones with the use of plant selection and educational signage. The site continues to support stormwater runoff, but now connects a string of County and City parks, further providing open space and natural habitats for the community. Stunson Nature Trail is located in the Royal Palm Acres Neighborhood in the City of Oakland Park. Craven Thompson provided Surveying, Civil Engineering, Landscape Architectural services. Park improvements included: Created an educational experience along a walking trail that emphasizes the primary environmental zones; Enhanced wetland area; New landscaping and irrigation; Creation of earthen berms; and decorative fence with landscape buffer along NE 38th Street.

**Year the Project was Completed:** 2022

**Total Fees Paid to Firm:** \$89,000.00

**Estimated Construction Cost:** \$550,000.00

**Actual Construction Cost:** \$595,192.00

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**DISCIPLINE: OTHER (SURVEY, GIS, CEI, ETC.)****Reference No. 1****Client Contact:**

Ingrid Kindbom, Program Manager  
City of Fort Lauderdale  
101 NE 3<sup>rd</sup> Avenue, Suite 1420  
Fort Lauderdale, Florida 33301  
(954) 828-6178 / [ikindbom@fortlauderdale.gov](mailto:ikindbom@fortlauderdale.gov)

**Name of Project: Potable Water System G.I.S. and Surveying**

**Description of Work:** Craven Thompson & Associates was the prime consultant for the Water Consent Order Mapping project, City Project No. 12729. The project consisted of accurately remapping the City's Water System and correcting the City's GIS. The project included 750+ miles of water mains 4" and larger, 19,000+ valves, 6,200 fire hydrants, 250 air release valves, and 62,600 meters. Craven Thompson subcontracted with 10 different Survey firms to accomplish this project. Eight of the ten firms performed Survey & SUE work and mapping all of the mains, 8" in diameter and larger, together with all of the valves, hydrants, and air release valves. The other two survey firms and one of the SUE firms were tasked with locating all 62,000 water meters. Craven Thompson also subcontracted for all of the roads (700 miles) within the water service area to be mapped with mobile lidar to and accuracy of +/- 0.5 feet. Craven Thompson also subcontracted for the City's water service area to be flown with aerial photogrammetry and aerial Lidar to and accuracy of +/- 0.5 feet.

**Year the Project was Completed:** 2024

**Total Fees Paid to Firm:** \$8,299, 980.00

**Estimated Construction Cost:** Not Applicable

**Actual Construction Cost:** Not Applicable



**Reference No. 2****Client Contact:**

George Wrvles, Project Manager  
City of Pembroke Pines, Engineering Division  
8300 South Palm Drive  
Pembroke Pines, Florida 33025  
(954) 518-9045 / [gwrves@ppines.com](mailto:gwrves@ppines.com)

**Name of Project: Pines Village Watermain Improvements, Phase I CEI Services**

**Description of Work:** Craven Thompson provided post design services for the Pines Village Watermain Improvements Phase I. This project consisted of the removal and replacement of the existing water mains within the Phase I limits. These improvements included water main replacement, new water services from main in the roadway to either the existing meter location or the house connection location. The project included restoration to pavement as well as swale, driveway, sidewalk, private property, etc. Services that Craven Thompson provided include:

- Reviewed Payment Requests and Quantities for Payment
- Prepared an itemized unit quantities & unit cost spreadsheet to verify conformance with the contract
- Reviewed and approved shop drawings
- Coordinated design revisions as needed
- Processed construction change directives and constructive contract Change Orders
- Resolved field issues
- Reviewed material substitution requests
- Coordinated work change directives
- Reviewed contractor Requests for Additional Information
- Created onsite inspection reports
- Observed testing
- Reviewed testing results
- Setup and attended construction progress meetings
- Reviewed Maintenance of Traffic (MOT) plans
- Reviewed as-built drawings
- Reviewed and monitored Storm Water Pollution Prevention Plans
- Coordinated field and office as-built data, Monitor testing
- Acted as City's agent during the construction process
- Attended pre-final inspection
- Prepared a punch-list
- Provided written approval of final payments to contractor
- Prepared engineering certification letters as required
- Prepared project completion certification forms and applications and submitted all other necessary documents to the governmental authorities to accept the project
- Signed & sealed final record drawings, & prepared submittal package to the City for final approval

**Year the Project was Completed:** 2019

**Total Fees Paid to Firm:** \$234,940.00

**Estimated Construction Cost:** \$3,900,000.00

**Actual Construction Cost:** \$3,671,195.00



**Reference No. 3****Client Contact:**

Ranthus Fouch, PE, Senior Civil Engineer  
Seminole Tribe of Florida, Public Works Department  
5700 Griffin Road, Suite 200, Davie, Florida 33314  
(954) 203-1034 / [ranthusfouch@semtribe.com](mailto:ranthusfouch@semtribe.com)

**Name of Project: Hollywood Seminole Reservation Stormwater Data Collection / GIS**

**Description of Work:** Hollywood Seminole Reservation is generally bounded by Stirling Road on the north and by Sheridan Street on the south and includes the Hard Rock Hotel and Casino which is located north of Stirling Road. The east and west boundaries are formed by existing residential neighborhoods in the City of Hollywood. Craven Thompson updated the Tribe's stormwater GIS information through entering as-built data, and surveying the hundreds of stormwater/drainage structures located on the reservation. Craven Thompson acquired accurate horizontal and vertical information on every stormwater/drainage feature on the Tribe's Hollywood Reservation. We reviewed existing storm sewer surveys and as-builts that could assist with GIS location and with this information our survey crew measured each structure to get accurate horizontal and vertical information for the Tribe's GIS system. During the data collection phase, the GPS locations of structures, canals, retention areas and ditches were captured with X-Y-Z coordinate values in the data collector. In addition, details such as pipe sizes, material, inverts, weirs, age, and structure condition were obtained in the field. We modified the Tribes' GIS database to include new relevant information and to include all information from the data collection efforts and condition assessment.

**Year the Project was Completed:** 2023

**Total Fees Paid to Firm:** \$120,360.00

**Estimated Construction Cost:** Not Applicable

**Actual Construction Cost:** Not Applicable

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**Reference No. 4****Client Contact:**

Mr. Omar Castellon, P.E., PMP, ENV SP, Assistant Public Works Director - Engineering  
City of Fort Lauderdale, Public Works - Engineering Department  
100 N. Andrews Avenue  
Fort Lauderdale, Florida 33301  
(954) 828-5064 / [ocastellon@fortlauderdale.gov](mailto:ocastellon@fortlauderdale.gov)

**Name of Project: South Middle River Force Main Crossing 16" Redundant Pipe (CEI)**

**Description of Work:** The project involved the installation of 16" nominal OD HDPE Force Main under the South Middle River Waterway, with sections of open cut trench installation of 16" PVC Force Main. The total length of subaqueous crossing of 16" HDPE Force Main is 1092 LF in length, with an additional 832 LF of 16" PVC Force Main installed by open cut trench. CTA provided full time construction management and inspection staff to monitor contractor adherence to schedule, resolve disputes and conflicts, process and respond to requests for information (RFIs), evaluate Change Order Requests and process valid requests, ensure that construction was performed in conformance with plans and specifications, review as-built plans and shop drawings, process monthly pay applications, complete substantial and final inspections, and certify the project. The City of Fort Lauderdale awarded the Design Build Contract for the installation of redundant piping to Man-Con. CTA was the Engineer of Record and Man-Con, Inc. was the contractor on this project.

**Year the Project was Completed:** 2021

**Total Fees Paid to Firm:** \$120,532.00

**Estimated Construction Cost:** \$1,289,661.00

**Actual Construction Cost:** \$1,289,661.00



**Reference No. 5****Client Contact:**

Emily McCord-Aceti  
Community Services  
Town of Southwest Ranches  
13400 Griffin Road  
Southwest Ranches, Florida 33330  
(954) 343-7453 / [eaceti@swranches.org](mailto:eaceti@swranches.org)

**Name of Project: Green Meadows Drainage Improvements Survey**

**Description of Work:** Craven Thompson & Associates set the survey control and Lidar targets and provided XYZ coordinates to our subconsultant that drove the 2 miles of roadway with a Riegl VMX Mobile Lidar Mapping System to collect high accuracy LiDAR point clouds for use in as-built mapping. They processed the point clouds holding our Lidar targets to control horizontal and vertical positioning, and then did a least squared analysis of the final point cloud verifying the accuracy to the Survey control. Our subconsultant then provided Craven Thompson with the finalized point clouds in a series of tiles in ".las" lidar format as their deliverable on a portable hard-drive. Upon receipt of the Lidar, Craven Thompson proceeded to import and combine all tiles into Leica Cyclone software and do an independent Quality Control analysis of the Lidar to our Survey control. Once that was completed and verified to meet tolerances on +/- 0.03 feet both horizontal and vertical at each Lidar target, a separate report is prepared and filed with the project. The combined the LiDAR point cloud, is then separated into individual streets and published to a Leica Jetstream project which can then be opened and used within the AutoCAD Civil 3D environment and create the engineering base map of each roadway for design of the new drainage system.

**Year the Project was Completed:** 2019

**Total Fees Paid to Firm:** \$53,500.00

**Estimated Construction Cost:** Not Applicable

**Actual Construction Cost:** Not Applicable



Tab 7

Attached  
Forms



**PROPOSAL CERTIFICATION FORM**

I hereby declare that I have carefully examined this RFQ, and any other documents made a part of this RFQ.

I hereby propose to furnish the services specified in this RFQ. I agree that my Statement of Qualifications will remain firm for a period of 180 days in order to allow the City adequate time to evaluate the Statement of Qualifications.

I certify that all information contained in this Statement of Qualifications is truthful to the best of my knowledge and belief. I further certify that I am duly authorized to submit this Statement of Qualifications on behalf of the firm.

  
\_\_\_\_\_  
Authorized Signature

Patrick J. Gibney, P.E., Vice Pres., Engineering  
\_\_\_\_\_  
Printed Name & Title

Craven, Thompson & Associates, Inc.  
\_\_\_\_\_  
Company Name

3563 NW 53rd Street  
\_\_\_\_\_  
Company Address

Fort Lauderdale, Florida 33309  
\_\_\_\_\_  
City, State, Zip Code

January 3, 2024  
\_\_\_\_\_  
Date

(954) 739-6400  
\_\_\_\_\_  
Phone Number

pgibney@craventhompson.com  
\_\_\_\_\_  
Email Address

**SWORN STATEMENT UNDER SECTION 287.133(3)(A),  
FLORIDA STATUTES, ON THE PUBLIC ENTITY CRIMES**

(To be signed in the presence of a notary public or other officer authorized to administer oaths.)

STATE OF Florida COUNTY Broward

Before me, the undersigned authority, personally appeared, who, being by me first duly sworn, made the following statement:

Name of Proposer Craven, Thompson & Associates, Inc.  
Business address 3563 NW 53rd Street, Fort Lauderdale, Florida 33309

I understand that a public entity crime as defined in Section 287.133 of the Florida Statutes includes a violation of any state or federal law by a person with respect to and directly related to the transaction of business with any public entity in Florida or with an agency or political subdivision of any other state or with the agency or political subdivision of any other state or with the United States, including, but not limited to, any bid or contract for goods or services to be provided to any public entity or any such agency or political subdivision and involving antitrust, fraud, theft, bribery, collusion, racketeering, conspiracy, or material misrepresentation.

I understand that “convicted” or “conviction” is defined by the statute to mean a finding of guilt or a conviction of a public entity crime, with or without an adjudication of guilt, in any federal or state trial court of record relating to charges brought by indictment or information after July 1, 1989, as a result of a jury verdict, nonjury trial, or entry of a plea of guilty or nolo contendere.

I understand that “affiliate” is defined by the statute to mean (1) a predecessor or successor of a person or a corporation convicted of a public entity crime, or (2) and entity under the control of any natural person who is active in the management of the entity and who has been convicted of a public entity crime, or (3) those officers, directors, executives, partners, shareholders, employees, members and agents who are active in the management of an affiliate, or (4) a person or corporation who knowingly entered into a joint venture with a person who has been convicted of a public entity crime in Florida during the preceding 36 months.

**Please mark the appropriate paragraph below:**

  X   Neither the proposer, contractor, nor any officer, director, executive, partner, shareholder, employee member or agent who is active in the management of the proposer or contractor nor any affiliate of the proposer or contractor has been convicted of a public entity crime subsequent to July 1, 1989.

\_\_\_\_\_ There has been a conviction of a public entity crime by the proposer or contractor, or an officer, director, executive, partner, shareholder, employee, member or agent of the proposer or contractor who is active in the management of the proposer or contractor or an affiliate of the proposer or contractor. A determination has been made pursuant to Section 287.133(3) by order of the Division of Administrative Hearings that it is not in the public interest for the name of the convicted person or affiliate to appear on the convicted vendor list. The name of the convicted person or affiliate is \_\_\_\_\_.

A copy of the order of the Division of Administrative Hearings is attached to this statement.

\_\_\_\_\_  
Proposer's Signature  
Patrick J. Gibney, P.E., Vice President, Engineering

STATE:	<u>Florida</u>
COUNTY:	<u>Broward</u>
Sworn to (or affirmed) and subscribed before me this <u>3rd</u> day of <u>January</u> , 20 <u>24</u> , by: <u>Patrick J. Gibney, P.E.</u>	
	<i>Name of Person Making Statement</i>
(NOTARY SEAL)	<u>Jennifer MacDonald</u> <i>Signature of Notary Public</i>
	<u>Jennifer MacDonald</u> <i>Name of Notary Public (Typed, Printed, Stamped)</i>
Personally Known:	<u>X</u> OR Identification Produced: _____
Type of Identification Produced:	_____

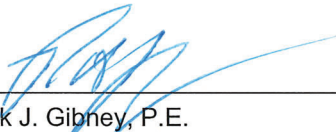


**NON-COLLUSION AFFIDAVIT**

By submission of this affidavit, the Proposer certifies that this price is made independently and free from collusion. Proposer shall disclose below, to the best of its knowledge, any City of Cooper City officer or employee, or any spouse, son, daughter, stepson, stepdaughter, or parent of any such officer or employee, who is an officer or director of, or has a material interest in, the Proposer’s business who is in a position to influence this procurement. Any City of Cooper City officer or employee who has any input into the writing of specifications or requirements, solicitation of offers, decision to award, evaluation of offers, or any other activity pertinent to this procurement is presumed, for purposes hereof, to be in a position to influence this procurement. For purposes hereof, a person has a material interest if he or she directly or indirectly owns more than five percent (5%) of the total assets or capital stock of any business entity, or if he or she otherwise stands to personally gain if the contract is awarded to this vendor.

Failure of a vendor to disclose any relationship described herein shall be reason for debarment in accordance with the provisions of the City of Cooper City Code of Ordinances.

<u>NAME</u>	<u>RELATIONSHIP</u>
None	



Signature

Patrick J. Gibney, P.E.  
Vice President, Engineering

STATE: Florida

COUNTY: Broward

Sworn to (or affirmed) and subscribed before me this 3rd day of January, 2025, by: Patrick J. Gibney, P.E.

(NOTARY SEAL)

*Jennifer MacDonald*

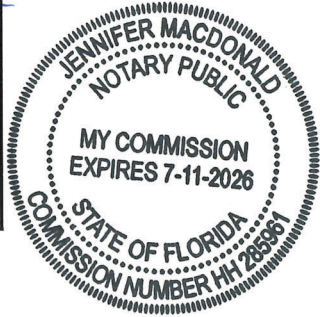
Signature of Notary Public

*Jennifer MacDonald*

Name of Notary Public (Typed, Printed, Stamped)

Personally Known: ☒ OR Identification Produced: \_\_\_\_\_

Type of Identification Produced: \_\_\_\_\_



**SCRUTINIZED COMPANIES CERTIFICATION**  
**(PURSUANT TO FLORIDA STATUTE § 287.135)**

I, Patrick J. Gibney, P.E., V.P., Engineering, on behalf of Craven, Thompson & Associates, Inc.,  
Print Name and Title Company Name

certify that Craven, Thompson & Associates, Inc. does not:  
Company Name

1. Participate in a boycott of Israel; and
2. Is not on the Scrutinized Companies that Boycott Israel List; and
3. Is not on the Scrutinized Companies with Activities in Sudan List; and
4. Is not on the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List; and
5. Has not engaged in business operations in Syria.

Submitting a false certification shall be deemed a material breach of contract. The City shall provide notice, in writing, to the Company of the City's determination concerning the false certification. The Company shall have ninety (90) days following receipt of the notice to respond in writing and demonstrate that the determination of false certification was made in error. If the Company does not demonstrate that the City's determination of false certification was made in error, then the City shall have the right to terminate the contract and seek civil remedies pursuant to Florida Statute § 287.135.

Section 287.135, Florida Statutes, prohibits the City from:

- 1) Contracting with companies for goods or services in any amount if at the time of bidding on, submitting a proposal for, or entering into or renewing a contract, the company is on the Scrutinized Companies that Boycott Israel List, created pursuant to Section 215.4725, F.S., or is engaged in a boycott of Israel; and,
- 2) Contracting with companies for goods or services over \$1,000,000.00 that are on either the Scrutinized Companies with activities in the Iran Petroleum Energy Sector List, created pursuant to s. 215.473, or are engaged in business operations in Syria.

As the person authorized to sign on behalf of the Company, I hereby certify that the company identified above in the section entitled "Company Name" does not participate in any boycott of Israel, is not listed on the Scrutinized Companies that Boycott Israel List; the Scrutinized Companies with Activities in Sudan List; the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List; and is not engaged in business operations in Syria. I understand that pursuant to Section 287.135, Florida Statutes, the submission of a false certification may subject the company to civil penalties, attorney's fees, and/or costs. I further understand that any contract with the City for goods or services may be terminated at the option of the City if the company is found to have submitted a false certification or has been placed on any of aforementioned lists.

\* SIGNATURE

Patrick J. Gibney, P.E., Vice Pres., Engineering  
PRINT NAME & TITLE

\* Individual must have the authority to bind the Company.

**Form must be executed and returned with attached proposal to be considered.**

**E-VERIFY FORM**

**Definitions:**

“Contractor” means a person or entity that has entered or is attempting to enter into a contract with a public employer to provide labor, supplies, or services to such employer in exchange for salary, wages, or other remuneration.

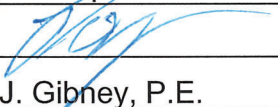
“Subcontractor” means a person or entity that provides labor, supplies, or services to or for a contractor or another subcontractor in exchange for salary, wages, or other remuneration.

Effective January 1, 2021, public and private employers, contractors, and subcontractors will begin required registration with, and use of the E-verify system in order to verify the work authorization status of all newly hired employees. Vendor/Consultant/Contractor acknowledges and agrees to utilize the U.S. Department of Homeland Security’s E-Verify System to verify the employment eligibility of:

- a) All persons employed by Vendor/Consultant/Contractor to perform employment duties within Florida during the term of the contract; and
- b) All persons (including sub-vendors/sub-consultants/subcontractors) assigned by Vendor/Consultant/Contractor to perform work pursuant to the contract with the Department. The Vendor/Consultant/Contractor acknowledges and agrees that use of the U.S. Department of Homeland Security’s E-Verify System during the term of the contract is a condition of the contract with the City of Cooper City; and

Should vendor become successful Contractor awarded for the above-named project, by entering into this Contract, the Contractor becomes obligated to comply with the provisions of Section 448.095, Fla. Stat., "Employment Eligibility," as amended from time to time. This includes but is not limited to utilization of the E-Verify System to verify the work authorization status of all newly hired employees and requiring all subcontractors to provide an affidavit attesting that the subcontractor does not employ, contract with, or subcontract with, an unauthorized alien. The contractor shall maintain a copy of such affidavit for the duration of the contract. Failure to comply will lead to termination of this Contract, or if a subcontractor knowingly violates the statute, the subcontract must be terminated immediately. If this contract is terminated for a violation of the statute by the Contractor, the Contractor may not be awarded a public contract for a period of 1 year after the date of termination.

Company Name: Craven, Thompson & Associates, Inc.

Authorized Signature: 

Print Name: Patrick J. Gibney, P.E.

Title: Vice President, Engineering

Date: January 3, 2025

**CONFLICT OF INTEREST DISCLOSURE FORM**

The award of this contract is subject to the provisions of Chapter 112, *Florida Statutes*. All Proposers must disclose within their Proposal: the name of any officer, director, or agent who is also an employee of the City of Cooper City.

Furthermore, all Proposers must disclose the name of any City employee who owns, directly or indirectly, an interest of more than five percent (5%) in the Proposer’s firm or any of its branches.

The purpose of this disclosure form is to give the City the information needed to identify potential conflicts of interest for evaluation team members and other key personnel involved in the award of this contract.

The term “conflict of interest” refers to situations in which financial or other personal considerations may adversely affect, or have the appearance of adversely affecting, an employee’s professional judgment in exercising any City duty or responsibility in administration, management, instruction, research, or other professional activities.

Please check one of the following statements and attach additional documentation if necessary:

  X   To the best of our knowledge, the undersigned firm has no potential conflict of interest due to any other cities, counties, contracts, or property interest for this Proposal.

           The undersigned firm, by attachment to this form, submits information that may be a potential conflict of interest due to any other cities, counties, contracts, or property interest for this Proposal.

Acknowledged by:

Craven, Thompson & Associates, Inc.

Firm Name

  
Signature

Patrick J. Gibney, P.E., Vice President, Engineering

Name and Title (Print or Type)

January 3, 2025

Date



## Addendum #1 - CLARIFICATIONS

(Issued Monday, November 25, 2024)

### RFQ 2024-1-PW, Continuing Professional Consulting Services (CCNA)

*This addendum is issued to make the following change(s)/correction(s)/clarification(s) to:*

*Question 1: There appear to be multiple dates listed in the RFQ regarding the submission deadline. Could you please clarify the final and correct deadline?*

Answer 1: The correct Due Date is Friday December 13, 2024 at 3pm

### Acknowledgment of Addendum #1

*Bidders hereby acknowledges that he/she has received and understands the information contained in this Addendum. Bidders further acknowledges that this page **MUST** be signed and returned with its Bid, along with any revised Bid Forms, if applicable.*

*Acknowledged by:*

*Print Name:*

Patrick J. Gibney, P.E., VP, Engineering

*Company:*

Craven, Thompson & Associates, Inc.

*Date:*

January 3, 2025



## Addendum #2 - CLARIFICATIONS

(Issued Tuesday, December 3, 2024)

### RFQ 2024-1-PW, Continuing Professional Consulting Services (CCNA)

*This addendum is issued to make the following change(s)/correction(s)/clarification(s) to:*

Due to the holidays, the due date for the submission of this proposal has been extended to Monday, January 6, 2024 at 3:00pm.

### Acknowledgment of Addendum #2

*Bidders hereby acknowledges that he/she has received and understands the information contained in this Addendum. Bidders further acknowledges that this page **MUST** be signed and returned with its Bid, along with any revised Bid Forms, if applicable.*

*Acknowledged by:*

*Print Name:*

Patrick J. Gibney, P.E., VP, Engineering

*Company:*

Craven, Thompson & Associates, Inc.

*Date:*

January 3, 2025



## **Addendum #3 - CLARIFICATIONS**

(Issued Monday, December 9, 2024)

### RFQ 2024-1-PW, Continuing Professional Consulting Services (CCNA)

*This addendum is issued to make the following change(s)/correction(s)/clarification(s) to:*

*Question 1: Does the City want the Proposers to include five references for each category?*

Answer 1: No. Five (5) references will be sufficient

*Question 2: Under what section does the City prefer the Proposers to include their project experience (besides the reference section)?*

Answer 2: TAB 6 References please provide the details of "Project Experience" per each area your firm desires to be considered the prime consultant.

*Question 3: Our firm is able to provide more than one of the requested services. Section 2.1 Introduction of the solicitation states, "a firm may submit only as a prime." Is the City looking for us to (a) ONLY submit for services specific to each Exhibit A in which we will be prime and omit any potentially needed sub-consultant? Alternatively (b) include sub-consultants that we anticipate would be needed, even if they have their own dedicated Exhibit A? (For example: How do we address Civil Engineering as prime and Geotechnical Engineering as a sub-consultant?)*

Answer 3: The City desires only the prime consultant, as identified in Exhibit A.

*Question 4: Would the City consider extending the deadline due to the holidays?*

Answer 4: Yes. January 6<sup>th</sup> 2025

*Question 5: Section 1.21 requests that an original and three copies be submitted in a sealed envelope, with a USB. Does the city prefer a certain method for binding the hard copy responses (e.g. spiral bound vs three-ring binder)?*

Answer 5: No preference on binding

*Question 6: How much work (\$ amount and type of projects) were distributed under the previous continuing contract?*

Answer 6: The City currently has several contracts and approximately twenty-five (25) active capital projects of varying scale, cost, and complexity. It is also preparing to enter the bond market soon to obtain a rating and secure funding for many more projects over the next one to two years.

---

*Question 7: Is there an existing contract in place for these services, and if so, could you confirm the incumbent's name?*

Answer 7: Currently the city has three (3) contracts in place: Hazen and Sawyer, Chen Moore & B Corradino Group. Additionally, there are several existing contracts for services. However, the City wishes to deepen the pool of available consultants, and values small to intermediate sized firms who can complete the types of projects Cooper City has to complete, including water and wastewater utility projects, general fund and public works capital projects, building facilities, resiliency and other types of projects (such as lighting, electrical, MEP and other services).

---

*Question 8: While we understand this is a continuing contract, could you provide information on any allocated budget, or the budget assigned to previous or similar projects?*

Answer 8: The City has projects that will range from several hundred thousands of dollars to as much as twelve to twenty million dollars in magnitude, and include the various types of projects outlined in response to question 8 (eight) above.

---

*Question 9: Is it acceptable to submit the proposal ONLY via DemandStar?*

Question 9: Yes

---

*Question 10: Could you please confirm whether the current RFQ 2024-1-PW will replace the contracts previously awarded under RFQ 2020-1-UTL? If that is the case, would CMA need to resubmit to be reconsidered under the new RFQ?*

Question 10: Existing contracts have been replaced by submissions under RFQ 2024-1-PW. CMA should submit again under this RFQ. Any contracts that have already been executed will proceed to completion, but new assignments will require re-selection through this RFQ.

---

*Question 11: Can we use 11 x 17 paper size for the organizational chart?*

Question 11: Yes but fold it into 8.5 x 11 inch size book.

---

*Question 12: Can we extend Exhibit B to include all project team members and add a column for "Other"?*

Question 12: Yes

---

*Question 13: Page 46, Domestic Partnership has two sections – Section one has applicable information to select, Section two mentions contract price terms and is not applicable to section one – How do we proceed?*

Question 13: Please select an item for Section Two only if Item #4 in Section One is selected

---

*Question 14: If a firm is pursuing continuing consulting services for architectural services, should that firm include subconsultants/services such as MEP, Structural etc.?*

Question 14: Yes, and if you change these, the Contract eventually executed should require you to update any of these selections and

request approval by City before using any different sub consultants.

---

*Question 15: We would like to know if the City wants subconsultants included in the proposal submittal. If subconsultants as to be included should they fill out the Exhibits A & B?*

Question 15: No, those sub consultants would not necessarily need to complete the Exhibit A & B inquiries. We can evaluate them through the proposal review process.

---

*Question 16: In regard to the above referenced project, is it acceptable to recreate the Exhibit B form (page 2) with the table that lists the project team? It is difficult to fit the information on the form provided with the RFQ. :*

Question 16: Yes, please complete Form 330, Parts I and II, as required by the RFQ. The form has been uploaded to Demandstar as an amendment.

---

*Question 17: Is the expectation of the City that each firm submits its qualifications as a sole entity and not as a team with subconsultants?*

Question 17: Yes. Each consultant should submit its own qualifications and list its sub consultants to be used, not as a team of consultants. The City desires specialized consultants that can self-perform a substantial amount of work included in the project, but acknowledges some sub consultants may be needed for specific needs in portions of any project undertaken.

---

*Question 18: As currently worded, we believe that the indemnity provisions in Section 1.15 on page 8, and Article 6.1 on page 56, of the RFQ does not comply with FL Statute 725.08 and is unenforceable. Will you agree to reword the indemnification to conform with the statute? Suggested language per FL Statute 725.08: "The design professional shall indemnify and hold harmless the agency, and its officers and employees, from liabilities, damages, losses, and costs, including, but not limited to, reasonable attorneys' fees, to the extent caused by the negligence, recklessness, or intentionally wrongful conduct of the design professional and other persons employed or utilized by the design professional in the performance of the contract."*

Question 18: The City will ensure that contract awarded pursuant to the RFQ is consistent with Sec. 725.08, F.S., and the other requirements of Florida law.

---

City of Cooper City, Florida  
RFQ 2024-1-PW,  
Continuing Professional Consulting Services (CCNA)  
Addendum #2 - Clarifications

**Acknowledgment of Addendum #3**

*Bidders hereby acknowledges that he/she has received and understands the information contained in this Addendum. Bidders further acknowledges that this page **MUST** be signed and returned with its Bid, along with any revised Bid Forms, if applicable.*

*Acknowledged by:*

*Print Name:*

  
Patrick J. Gibney, P.E., VP, Engineering

*Company:*

Craven, Thompson & Associates, Inc.

*Date:*

January 3, 2025



## Addendum #4

(Issued Thursday, December 12, 2024)

### RFQ 2024-1-PW, Continuing Professional Consulting Services (CCNA)

*This addendum is issued to make the following change(s)/correction(s)/clarification(s) to:*

The due date for the submission of questions for this proposal has been extended to Monday, December 16, 2024 at 3:00pm.

### Acknowledgment of Addendum #4

*Bidders hereby acknowledges that he/she has received and understands the information contained in this Addendum. Bidders further acknowledges that this page **MUST** be signed and returned with its Bid, along with any revised Bid Forms, if applicable.*

*Acknowledged by:*

*Print Name:*

  
Patrick J. Gibney, P.E., VP, Engineering

*Company:* Craven, Thompson & Associates, Inc.

*Date:* January 3, 2025



## Addendum #5

(Issued Thursday, December 19, 2024)

### RFQ 2024-1-PW, Continuing Professional Consulting Services (CCNA)

*This addendum becomes a part of the subject solicitation.*

#### A. CHANGES TO THE SOLICITATION:

Please note the following changes to the Solicitation:

1. **Question and Answer Deadline:** Extended to Monday, December 23, 2024, at 12:00 PM EST.
2. **Proposal Due Date:** Extended to Monday, January 6, 2025 at 3:00 PM EST.
3. **Section 1.15, Indemnification has been replaced with the following:**

##### **1.15 Indemnification**

Pursuant to Florida Statutes 725.08 and notwithstanding the provisions of Florida Statutes 725.06, the CONSULTANT shall indemnify and hold harmless the CITY, and its officers and employees, from liabilities, damages, losses, and costs, including, but not limited to, reasonable attorneys' fees, to the extent caused by the negligence, recklessness, or intentionally wrongful conduct of the CONSULTANT and other persons employed or utilized by the CONSULTANT in the performance of this Agreement.

To the extent this indemnification clause or any other indemnification clause in this Agreement does not comply with Chapter 725, Florida Statutes, as may be amended, this provision and all aspects of the Contract Documents shall hereby be interpreted as the parties' intention for the indemnification clauses and Contract Documents to comply with Chapter 725, Florida Statutes, as may be amended. This Section shall survive expiration or termination of this Agreement.

4. **Section 1.21 Proposal Submission Deadline and Opening has been replaced with the following:**  
**1.21 PROPOSAL SUBMISSION DEADLINE AND OPENING:** Sealed proposals will be received electronically via [www.DemandStar.com](http://www.DemandStar.com) and by the City Clerk's Office, City of Cooper City, 9090 SW 50th Place, Cooper City, Florida until 3:00 PM, Friday, December 13, 2024. The proposals will be opened and read aloud shortly thereafter. One (1) USB, one (1) original and three (3) copies of proposals must be presented in a sealed envelope and identified with the following information: "Continuing Professional Consulting Services, RFQ2024-1-PW#" for physical submissions. Electronic proposal submissions require the uploading of electronic attachments via [www.DemandStar.com](http://www.DemandStar.com). The submission of electronic attachments containing embedded documents or proprietary file extensions is prohibited. All electronic proposals received and time stamped through DemandStar, prior to the proposal submittal deadline shall be accepted as timely submitted. **If you submit your Proposal and subsequently an Addendum is issued, failure to resubmit the Proposal, after acknowledging Addenda or making any edits to your Proposal, may result in your Proposal not being received by the City.** The City of Cooper City reserves the right to reject any or all proposals, to waive any informalities or irregularities in any proposals received, to re-advertise for proposals, to award only portions of the project, to award to multiple Proposers, or take any similar actions that may be deemed to be in the best interests

5. Section 2.4, Statement of Qualifications Content has been **replaced** with the following:

**2.4 Statement of Qualifications Content:**

Consultants interested in performing these professional services must identify which area(s) the firm(s) are interested in being considered. Consultants must display considerable relevant experience with the specified type of work (as listed on Exhibit "A") and should emphasize both the experience and capability of particular personnel who will actually perform the work. In order to ensure a uniform review process and to obtain the maximum degree of comparability, it is required that the Statements of Qualifications be organized in the manner specified. The following information and documents are required to be provided with Proposer's Statement of Qualifications. Failure to do so may deem your Statement of Qualifications non-responsive.

**TAB 1: Table of Contents**

The table of contents should outline in sequential order the major areas of the Statement of Qualifications, including enclosures. All pages must be consecutively numbered and correspond to the Table of Contents.

**TAB 2: Letter of Interest**

Provide a Letter of Interest indicating your firm's commitment to the project. Letter of interest shall include which area(s) the Proposer is interested in being considered for. The shall also include the following:

- a. Size of firm
- b. Range of activities
- c. Firms strength and stability
- d. Location of firm
- e. Summary of abilities and experience of the firms' professional personnel (Standard Form 330 - Attached)
- f. Summary of past performance of the firm on similar projects (Standard Form 330 - Attached)
- g. Recent, current, and projected workload of the firm, and availability and access to the firms' top level management personnel.
- h. Identification of firms, single, professionally licensed point of contact for all City projects.

**TAB 3: Standard Form 330**

*Proposers shall complete both Part I and II of the Standard Form 330 so that the City can obtain adequate information for this RFQ. Proposer's shall use the attached Standard Form 330 or visit <https://www.gsa.gov/forms-library/architect-engineer-qualifications> for a PDF fillable version of this form.*

Indicate the firm's number of years of experience in providing Engineering / Architect and or professional services. Indicate Business structure (Corp., Partnership, etc.) with proof; Firm should be established as a legal entity in the State of Florida; Company address, phone number, E-Mail address, web site, contact person(s), etc.; Relative size of the firm, including management, technical and support staff; Licenses and any other pertinent information shall be submitted. Please include the firm's proximity to the City of Cooper City, as well as the number of employees or staff members. **TAB 4: Project Team/Manager's Experience (Form - Exhibit B)** Proposers must list the members of the project team per discipline. Provide a list of the personnel to be used on each project and their qualifications. A brief resume including education, experience, licenses and any other pertinent information shall be included for each team member, for each project, to be assigned to each project. Provide any other documentation that demonstrates their ability to satisfy all of the minimum qualification requirements. Provide a summary of the experience and qualifications of the individual(s) who will be selected to serve as project managers for the City. Individuals **MUST** have a minimum of five (5) years' experience in architectural, engineering, or landscape architectural services, and have served as project manager/construction manager on similar projects on a minimum of three previous occasions.

**TAB 4: Approach to Handling of Potential Projects**

Describe your proposed approach to the project(s) that may be assigned to your firm. As part of the project approach, the firm shall propose a scheduling methodology (timeline) for effectively managing and executing the

work in the optimum time. Provide the methodology or approach to formulating an "Opinion of Project Cost" Also provide information on your firm's current workload and how the potential project(s) will fit into your workload. Describe available facilities, technological capabilities and other available resources you offer for the potential project(s). Provide in concise narrative form, your understanding of the City's needs, goals and objectives as they relate to the potential project(s), and your overall approach to accomplishing the project(s). Give an overview on your proposed vision, ideas and methodology.

**TAB 5: References**

Provide a minimum of five (5) references, for each service that the Proposer's wishes to be considered for. Each reference shall be able to confirm the Proposer's experience and performance within the last five (5) years. References shall be from clients of similar size and complexity to Cooper City or larger municipalities, for which the Proposer has performed scopes similar those listed in this RFP. Proposers shall include the following information for each reference:

- Client Name, address, contact person, email address and phone number
- Description of service(s)/work performed
- Year the project was completed
- Total of fee(s) paid to firm
- Total cost of the construction, both estimated and actual.

**TAB 6: Attached Forms**

- Proposal Certification Form
- Sworn Statement regarding Public Entities Crimes
- Non-Collusion Form
- Scrutinized Companies Certification Form
- E-verify Certification Form
- Conflict of Interest Disclosure Form

6. Exhibit B has been **replaced** by Standard Form 330.
7. Domestic Partnership Certification Form has been **deleted** from this solicitation and not required to be submitted.
8. Article 6, Indemnification of the Sample Continuing Professional Services Agreement has been **replaced** with the following:

**Article 6**

**INDEMNIFICATION**

6.1 Pursuant to Florida Statutes 725.08 and notwithstanding the provisions of Florida Statutes 725.06, the CONSULTANT shall indemnify and hold harmless the CITY, and its officers and employees, from liabilities, damages, losses, and costs, including, but not limited to, reasonable attorneys' fees, to the extent caused by the negligence, recklessness, or intentionally wrongful conduct of the CONSULTANT and other persons employed or utilized by the CONSULTANT in the performance of this Agreement.

To the extent this indemnification clause or any other indemnification clause in this Agreement does not comply with Chapter 725, Florida Statutes, as may be amended, this provision and all aspects of the Contract Documents shall hereby be interpreted as the parties' intention for the indemnification clauses and Contract Documents to comply with Chapter 725, Florida Statutes, as may be amended. This Section shall survive expiration or termination of this Agreement.

**B. QUESTION AND ANSWERS:**

*The following questions were received during the Question-and-Answer period.*

*Question 1: Is the SF330 form required for this proposal response? It is included in the downloads on Demandstar, but not mentioned anywhere in the RFQ, including in what section to include it. Information requested in designated tabs including qualifications of firm, project team resumes, and references will all be duplicated information if the SF330 is required.*

Answer 1: Yes. Please refer to Section A.5. of this addendum.

*Question 2: I noticed that the City added an SF-330 document to the procurement site. The RFQ does not require an SF-330 to be submitted. Are we allowed to submit our information following the format requested in the RFQ – or do we need to include an SF-330 also?*

Answer 2: No, Proposers shall submit Standard Form 330 with their submittal. Please refer to Section A.5. of this addendum.

---

*Question 3: I'm emailing in regard to the above referenced RFQ. On 11/27 SF 330 forms were uploaded to Demand Star with no explanation in the RFQ or addendum. Do we need to include these in our submittal? If so, is there a preferred tab?*

Answer 3: Proposers shall include Standard Form 330 with their submittal. Please refer to Section A.5. of this addendum to determine what information should be included on each Tab.

---

*Question 4. I am following up to see if the clarification on Standard Form 330, added to the submission, will be answered in the Addendum scheduled for Friday, December 6. This inquiry is based on the question from my previous email below. Thank you.*

Answer 4: Proposers shall include Standard Form 330 with their submittal. Please refer to Section A.5. of this addendum to determine what information should be included on each Tab.

---

*Question 5: We have encountered a query regarding the Domestic Partnership Certification Form as we finalize our submission for printing. The first four checkbox items refer to Section 2-197.1 of the City of Cooper City's Code of Ordinances. However, when we searched the City's Municipal Code of Ordinances & Charter website, Section 2-197 is marked as "Reserved" and lacks a definition (please see the attached document). Without knowing what Section 2-197.1 entails, we are unsure which items to select for our firm. Could you please provide the definition for Section 2-197.1?*

Answer 5: The Domestic Partnership Certification Form has been removed from this solicitation. Please refer to Section A.7. of this addendum.

---

*Question 6: Regarding Addendum 3, Clarification: In which section of the submittal does the City require the SF-330 to be included? It is not listed in the original RFQ. As per the RFQ, firm information/background, org chart, staff resumes, and key projects are already included. Are we providing a separate tab with the entire SF-330 in one spot?*

Answer 6: Proposers shall include Standard Form 330 with their submittal. Please refer to Section A.5. of this addendum to determine what information should be included on each Tab.

---

*Question 7: Respectfully, we request clarification re: addendum #3. Question/answer #9 indicates that submissions will be permitted via Demandstar. However, the e-bidding function does not show that it is active: Please confirm whether electronic responses are accepted. If so, please advise if the e-bid feature will be activated before the submission deadline.*

Answer 7: Yes, electronic responses shall be accepted. The e-bid feature has been activated.

---

*Question 8: Regarding the above-referenced RFQ, the latest addendum (#3) states that Form 330 must also be submitted. Could you please clarify in which section of the RFQ these forms should be included?*

Answer 8: Proposers shall include Standard Form 330 with their submittal. Please refer to Section A.5. of this addendum to determine what information should be included on each Tab.

*Question 9: Question 16 of Addendum No. 3 asks about recreating the Exhibit B form. The answer to the question doesn't address Exhibit B and instead references completing Form 330 as required by the RFQ. I am not coming across anything in the original RFQ about including an SF330 with the submission. Can you please confirm if we are to include an SF330 and if yes, which tab should it be included in?*

Answer 9: Proposers shall include Standard Form 330 with their submittal. Please refer to Section A.5. of this addendum to determine what information should be included on each Tab.

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*Question 10: The answer to question 9 of Addendum No. 3 allows for submitting through DemandStar only, but there is no option to submit an e-bid. Will the City be enabling the e-bid feature so we can submit electronically?*

Answer 10: Yes, electronic responses shall be accepted. The e-bid feature has been activated.

---

*Question 11: With reference to the above RFQ and Addendum 3, Item 9. Please confirm that bids will be received online through Demandstar. If that is the case, please let us know when Demandstar will be updated to be able to receive the uploaded bids. At this time there is no ability to upload to Demandstar. Also, What section do you want SF330 to be placed.*

Answer 11: Yes, electronic responses shall be accepted. The e-bid feature has been activated. Section A.5. of this Addendum details how Standard Form 330 shall be submitted.

---

*Question 12: Answer to No. 1 of Addendum No. 3 states: 5 references are sufficient. Answer to Question No. 2 states "per each area your firm desires". Which would the City prefer: 5 total references or 5 per category?*

Answer 12: TAB 5: References, has been replaced to require Proposers to provide a minimum of five (5) references, for each service that the Proposer's wishes to be considered for. Please refer to Section A.5. of this addendum to determine what information should be included on each Tab.

---

*Question 13: Answer to No. 3 states: the City desires only the Prime Consultant. Answer to No. 15 & 17 indicates that subs should be on the team. Should the proposer add subconsultants to the team?*

Answer 13: If a Proposer intends to utilize sub-consultant(s), then the sub-consultant shall be added to the team.

---

*Question 14: We are still unsure what to do with reference to Question 16. Is it ok to recreate the 2<sup>nd</sup> page to Exhibit B since the form is difficult to manipulate?*

Answer 14: Proposer's shall submit Standard Form (SF) 330.

---

*Question 15: Question 9: the City responded "yes" to submit submittal on Demandstar. The RFQ states on Page 10, No. 1.21 to deliver proposals to the City. Which does the City prefer, to submit on Demandstar or deliver a hard copy to the City? There is not an option to submit on DemandStar.*

Answer 15: DemandStar has been updated to allow for electronic submissions. Method of submittal is at the discretion of the Proposer.

---

*Question 16: Under which Tab would the City prefer we include the SF330?*

Question 16: Please refer to Section A.5. of this addendum to determine how to include Standard Form 330.

---

*Question 17: In addendum 3, question #9 of the above referenced solicitation someone asked if we were able to submit the RFQ through Demandstar only and the response was yes. The RFQ indicates printed hard copies would be required to be brought to City Hall and there isn't an option on Demandstar to submit anything. I just wanted to confirm whether a digital submittal is an option or if it is required to submit only hard copies?*

Answer 17: DemandStar has been updated to allow for electronic submissions. The method of submittal is at the discretion of the Proposer.

---

*Question 18: Will you clarify which portions of the proposal need to be in SF 330 format? For example, what exactly is a "key person"? Do you want all of the proposed team's resumes to be in SF 330 format instead of the format we usually use, or in addition to the resumes we usually use? Or do you just want the project manager's resume to be in SF 330 format?*

Answer 18: Section A.5. of this addendum details how to include Standard Form 330. Key Personnel are employees of the Proposer considered to be essential to the performance of execution of the resultant scope of work.

---

*Question 19: The first four checkbox items refer to Section 2-197.1 of the City of Cooper City's Code of Ordinances. However, when we searched the City's Municipal Code of Ordinances & Charter website, Section 2-197 is marked as "Reserved" and it does not provide a description or definition for what it is (please see the attached Word document). Without knowing what Section 2-197.1 pertains to, we are unsure which items to select for our firm on the Domestic Partnership Certification Form in our qualifications submittal. Can you please provide the definition for Section 2-197.1?*

Answer 19: The Domestic Partnership Certification Form has been removed from this solicitation. Please refer to Section A.7. of this addendum.

---

*Question 20: Can the City provide a list of previous incumbents/ previously awarded firms?*

Answer 20: CCNA services were previously awarded under RFQ 2020-1-UTL. The solicitation was awarded to the following firms: Chen Moore and Associates, Inc. | Hazen & Sawyer, P.C. | The Corradino Group, Inc.

---

*Question 21: Is a hardcopy proposal required or will the City accept a electronic submittal through Demandstar?*

Answer 21: The City will accept electronic submittals. DemandStar has been updated to allow for electronic submissions.

---

*Question 22: Is there a page limit for the Statement of Qualifications Package?*

Answer 22: No.

---

*Question 23: Does the City have any small business preference?*

Answer 23: No, unfortunately, Cooper City does not have a small business preference.

---

*Question 24: Does the City have any local business preference?*

Answer 24: No, unfortunately, Cooper City does not have a local business preference; however If all bids received are for the same total amount or unit price, quality and service being equal, the contract shall be awarded based on the following criteria to be

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considered in the following order of priority: (a) A local bidder with a primary business location within the City of Cooper City. (b) A bidder with a primary business location within Broward, Miami- Dade or Palm Beach Counties. (c) A bidder with a primary business location within the State of Florida.

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*Question 25: A standard form 330 was added as a document on Demandstar, is the SF 330 expected to be filled out by proposers, if so, under which Tab would the City prefer it to be included?*

Answer 25: Proposer's shall submit Standard Form (SF) 330. Section A.3. of this addendum details how to include Standard Form 330.

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*Question 26: As currently worded, we believe that the indemnity provisions in Section 1.15 on page 8, and Article 6.1 on page 56, of the RFQ does not comply with FL Statute 725.08 and is unenforceable. Will you agree to reword the indemnification to conform with the statute? Suggested language per FL Statute 725.08: "The design professional shall indemnify and hold harmless the agency, and its officers and employees, from liabilities, damages, losses, and costs, including, but not limited to, reasonable attorneys' fees, to the extent caused by the negligence, recklessness, or intentionally wrongful conduct of the design professional and other persons employed or utilized by the design professional in the performance of the contract."*

Answer 26: Both Section 1.15 and Article 6.1 of Draft Agreement have been revised. Please see Section A.5. of this Addendum.

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*Question 27: A sample SF330 was posted on November 27th, could you please clarify if this was posted solely for informational purposes? If it is intended to be an addition to the submittal, may we provide the resume and project information in our own format, as long as it includes the same details as the attached SF330?*

Answer 27: Proposer's shall submit Standard Form (SF) 330. Proposer's shall follow the instructions listed within Standard Form 330.

---

*Question 28: Will you accept the previously requested brief resumes instead of SF-330, which was just instructed on 11/27/24*

Answer 28: No, Proposer's shall submit Standard Form (SF) 330. Section A.5. of this addendum details how to include Standard Form 330.

---

*Question 29: Please explain/clarify the purpose of Addendum #2. Does the City prefer that we use the SF-330 form for the proposal submittal?*

Answer 29: The purpose of Addendum # 2 was to extend the proposal due date. Proposer's shall submit Standard Form (SF) 330. Section A.5. of this addendum details how to include Standard Form 330.

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*Question 30: Will Section 2.4 Statement of Qualifications Content be revised to include the requirement for the SF330?*

Answer 30: Section 2.4 has been revised. Section A.5. of this addendum details how to include Standard Form 330.

---

*Question 31: An addendum for the City of Cooper City called (Standard Form 330-Architect Engineering Qualifications) was just posted; does a full SF 330 also need to be apart of the submittal along with the original resumes requested?*

Answer 31: Section A.5. of this addendum details how to include Standard Form 330.

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*Question 32: According to Addendum 3, Question 9, it states that proposals can be submitted via DemandStar only. However, we*

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*are currently unable to see an option to submit on DemandStar. Will this feature be enabled to accept e-submissions?*

Answer 32: DemandStar has been updated to allow for electronic submissions. The method of submittal is at the discretion of the Proposer.

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**Acknowledgment of Addendum #5**

*Bidders hereby acknowledges that he/she has received and understands the information contained in this Addendum. Bidders further acknowledges that this page **MUST** be signed and returned with its Bid, along with any revised Bid Forms, if applicable.*

*Acknowledged by:*

*Print Name:*

  
Patrick J. Gibney, PE, VP, Engineering

*Company:*

Craven, Thompson & Associates, Inc.

*Date:*

January 3, 2025



## Addendum #6

(Issued Monday, December 30, 2024)

### RFQ 2024-1-PW, Continuing Professional Consulting Services (CCNA)

*This addendum becomes a part of the subject solicitation.*

#### A. CHANGES TO THE SOLICITATION:

*Please note the following changes to the Solicitation:*

1. **Proposal Due Date:** Extended to Tuesday, January 21, 2025 at 3:00 PM EST.
2. **Question and Answer Due Date:** Extended to Friday, January 3, 2025 at 12:00 PM EST.
3. **Section 2.4, Statement of Qualifications Content has been replaced with the following:**

#### **2.4 Statement of Qualifications Content:**

Consultants interested in performing these professional services must identify which area(s) the firm(s) are interested in being considered. Consultants must display considerable relevant experience with the specified type of work (as listed on Exhibit "A") and should emphasize both the experience and capability of particular personnel who will actually perform the work. In order to ensure a uniform review process and to obtain the maximum degree of comparability, it is required that the Statements of Qualifications be organized in the manner specified. The following information and documents are required to be provided with Proposer's Statement of Qualifications. Failure to do so may deem your Statement of Qualifications non-responsive.

#### **TAB 1: Table of Contents**

The table of contents should outline in sequential order the major areas of the Statement of Qualifications, including enclosures. All pages must be consecutively numbered and correspond to the Table of Contents.

#### **TAB 2: Letter of Interest**

Provide a Letter of Interest indicating your firm's commitment to the project. Letter of interest shall include which area(s) the Proposer is interested in being considered for. The letter shall also include the following:

- a. Size of firm, to include the number of employees or staff members (including management, technical and support staff);
- b. Range of activities
- c. Firms strength and stability
- d. Location of firm; proximity to the City of Cooper City
- e. Summary of abilities and experience of the firms' professional personnel
- f. Summary of past performance of the firm on similar projects
- g. Indicate the firm's number of years of experience in providing Engineering / Architect and or professional services and Business structure (Corp., Partnership, etc.) with proof;
- h. Recent, current, and projected workload of the firm, and availability and access to the firms' top level management personnel.

- i. Identification of firms, single, professionally licensed point of contact for all City projects.

**TAB 3: Exhibit A/Standard Form 330**

*Proposers shall complete both Part I and II of the Standard Form 330 so that the City can obtain adequate information for this RFQ. Proposer's shall use the attached Standard Form 330 or visit <https://www.gsa.gov/forms-library/architect-engineer-qualifications> for a PDF fillable version of this form. Tab 3 must include a list of the personnel to be used on each project and their qualifications. A brief resume including education, experience, licenses and any other pertinent information (such as company address, phone number, E-Mail address, web site, contact person(s), etc.) shall be included for each team member, for each project, to be assigned to each project. Provide any other documentation that demonstrates their ability to satisfy all of the minimum qualification requirements. Provide a summary of the experience and qualifications of the individual(s) who will be selected to serve as project managers for the City. Individuals MUST have a minimum of five (5) years' experience in architectural, engineering, or landscape architectural services, and have served as project manager/construction manager on similar projects on a minimum of three previous occasions. All additional information shall be included in Section H. Additional Information of SF 330.*

**TAB 4: Professional Registration Certificates**

A reproduction of the firm's current professional registration certificate(s) is required for the services offered and must be in the name of the firm offering said services (architecture, engineering, general contractor or other certification required). Firms must be properly registered at the time of application to practice their profession in the State of Florida and with the appropriate State Board governing the services offered. Firm should be established as a legal entity in the State of Florida.

**TAB 5: Approach to Handling of Potential Projects**

Describe your proposed approach to the project(s) that may be assigned to your firm. As part of the project approach, the firm shall propose a scheduling methodology (timeline) for effectively managing and executing the work in the optimum time. Provide the methodology or approach to formulating an "Opinion of Project Cost" Also provide information on your firm's current workload and how the potential project(s) will fit into your workload. Describe available facilities, technological capabilities and other available resources you offer for the potential project(s). Provide in concise narrative form, your understanding of the City's needs, goals and objectives as they relate to the potential project(s), and your overall approach to accomplishing the project(s). Give an overview on your proposed vision, ideas and methodology.

**TAB 6: Exhibit A/References**

*Proposers shall complete Exhibit A – Services to be Considered For and provide a minimum of five (5) references, for each discipline that the Proposer's wishes to be considered for. Each reference shall be able to confirm the Proposer's experience and performance within the last five (5) years. References shall be from clients of similar size and complexity to Cooper City or larger municipalities, for which the Proposer has performed scopes similar those listed in this RFP. Proposers shall include the following information for each reference:*

- Client Name, address, contact person, email address and phone number
- Description of service(s)/work performed
- Year the project was completed
- Total of fee(s) paid to firm
- Total cost of the construction, both estimated and actual.

**TAB 7: Attached Forms**

- Proposal Certification Form
- Sworn Statement regarding Public Entities Crimes
- Non-Collusion Form
- Scrutinized Companies Certification Form
- E-verify Certification Form
- Conflict of Interest Disclosure Form

## **B. QUESTION AND ANSWERS:**

*The following questions were received during the Question-and-Answer period.*

*Question 1: Do we need to include in our response package a copy of our Certificate of Insurance or after notification of award?*

Answer 1: The successful proposer will furnish to the City, Certificates of Insurance or endorsements evidencing the insurance coverage specified above within seven (7) days after notification of an award. The required Certificates of Insurance or endorsements will not only name the types of policies continued but will also refer specifically to this contract and will state that such insurance is as required by this contract. Refer to Section 16. Proof of Insurance Coverage

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*Question 2: Do we need to include/provide in our response package a statement and/or documentation concerned with the performance of the following listed below, if applicable? If so, what tab should we use to insert this information/statement? (bankruptcy, mortgage foreclosures; previous or pending litigation and/or restrictions, restraints or impositions imposed by federal or state regulatory agencies such as Federal Housing Administration, Securities and Exchange Commission, etc.)*

Answer 2: The City will have the right to investigate the financial condition, experience record, and equipment of each proposer and determine to its satisfaction the competency of each to undertake the project. The proposer will submit documentation concerned with the past performance and integrity of a contractor/developer. Accordingly, proposer should provide information as to any of the following: (a) bankruptcy, (b) mortgage foreclosures; (c) previous or pending litigation and (d) restrictions, restraints or impositions imposed by federal or state regulatory agencies such as Federal Housing Administration, Securities and Exchange Commission, etc., that apply to the proposer/contractor/developer. Refer to Section 1.7 Proposer's Experience Record.

---

*Question 3: Since the City extended the "Q&A" deadline, can you revise the proposal due date, again, to sometime after January 6th, 2025? Due to the holidays, many offices are closed or short-staffed the last week of December.*

Answer 3: Proposal due date has been extended to Tuesday, January 21, 2025 at 3:00 PM EST.

---

*Question 4. Addendum #3, Question #2: Under what section does the City prefer the Proposers to include their project experience (besides the reference section)? CITY OF COOPER CITY RESPONSE / ANSWER 2: TAB 6 References Please provide the details of "Project Experience" per each area your firm desires to be considered the prime consultant. COMMENT/QUESTION: We're an architectural firm, so TAB 6 will only include projects/services listed in "Exhibit A – Architecture", correct? Can these projects be the same and/or different than those found in the SF330 form? Also, can you clarify what is meant by "structural" listed in "Exhibit A – Architecture"? What type of project experience are you looking for/referring to? Example?*

Answer 4: Correct. Yes those projects can be the same. Structural as it relates to Exhibit A - Architecture, are structural design services limited of Architects licensure. These types of projects may include design of a multi-floor habitable structure, docks or seawalls, slabs, or buildings with reinforced concrete, wood or plastics design and construction.

---

*Question 5: Addendum #3, Question 3: .... "is the City looking for us to (a) ONLY submit for services specific to each Exhibit A in which we will be prime and omit any potentially needed sub-consultant? Alternatively (b) include sub-consultants that we anticipate would be needed, even if they have their own dedicated Exhibit A? (For example: How do we address Civil Engineering as prime and Geotechnical Engineering as a sub-consultant?) CITY OF COOPER CITY RESPONSE / ANSWER 3: The City desires only the prime consultant, as identified in Exhibit A. COMMENT/QUESTION: As architects, our specialty includes studies, design, plan review, and cost estimating among others. These tasks can be achieved by our firm alone, but for many other projects, additional disciplines are required. How do we list/mention and/or where do we include subconsultant information in our response package?*

Answer 5: Subconsultants shall be listed on Standard Form 330.

*Question 6: Addendum #3, Question 12: Can we extend Exhibit B to include all project team members and add a column for "Other"? CITY OF COOPER CITY RESPONSE / ANSWER 12: Yes COMMENT/QUESTION: Is "Exhibit B" Form being replaced entirely by SF330 packet (Parts I +II) or is it a separate form/requirement in addition to the SF330 packet (Parts I +II)?*

Answer 6: Exhibit B Form has been replaced by Standard Form 330. Please see Section A. of Addendum No. 6.

---

*Question 7: Addendum #3, Question 14: If a firm is pursuing continuing consulting services for architectural services, should that firm include subconsultants/services such as MEP, Structural etc.? CITY OF COOPER CITY RESPONSE / ANSWER 14: Yes, and if you change these, the Contract eventually executed should require you to update any of these selections and request approval by City before using any different sub consultants. COMMENT/QUESTION: As architects, our specialty includes studies, design, plan review, and cost estimating among others. These tasks can be achieved by our firm alone, but for many other projects, additional disciplines are required. How do we list/mention and/or where do we include subconsultant information in our response package?*

Answer 7: Subconsultants shall be listed on Standard Form 330.

---

*Question 8: Addendum #3, Question 15: We would like to know if the City wants subconsultants included in the proposal submittal. If subconsultants as to be included should they fill out the Exhibits A & B? CITY OF COOPER CITY RESPONSE / ANSWER 15: No, those sub consultants would not necessarily need to complete the Exhibit A & B inquiries. We can evaluate them through the proposal review process. COMMENT/QUESTION: please clarify on how the city will "evaluate subconsultants through the proposal review process". The answer to Question 14 states that an architectural firm should include subconsultants/services such as MEP, Structural, etc. however, the subconsultant will not be part of Exhibits A & B, so are subconsultants going to be included in the SF330 packet (Parts I +II), then? Or is a list all that is needed?*

Answer 8: Subconsultants shall be listed on Standard Form 330.

---

*Question 9: Addendum #3, Question 16: In regard to the above-referenced project, is it acceptable to recreate the Exhibit B form (page 2) with the table that lists the project team? It is difficult to fit the information on the form provided with the RFQ. : CITY OF COOPER CITY RESPONSE / ANSWER 16: Yes, please complete Form 330, Parts I and II, as required by the RFQ. The form has been uploaded to Demandstar as an amendment. COMMENT/QUESTION: you stated above that the SF330 "is required by the RFQ". Where else in the RFQ is form SF330 mentioned? In 2020, SF300 was part of "Tab 2". This year (2024), there is no mention of an SF 330 form other than in your response to Question #16 above. Is TAB #4 going to include Exhibit B Form and the SF330 packet (Parts I +II) or is Exhibit B being replaced entirely by SF330 packet (Parts I +II)?*

Answer 9: Please refer to Section A. of Addendum No. 6.

---

*Question 10: Addendum #3, Question 17: Is the expectation of the City that each firm submits its qualifications as a sole entity and not as a team with subconsultants? CITY OF COOPER CITY RESPONSE / ANSWER 17: Yes. Each consultant should submit its own qualifications and list its sub consultants to be used, not as a team of consultants. The City desires specialized consultants that can self-perform a substantial amount of work included in the project but acknowledges some sub consultants may be needed for specific needs in portions of any project undertaken. COMMENT/QUESTION: Where should we include the list of sub consultants to be used? are subconsultants going to be included in the SF330 packet (Parts I +II)?*

Answer 10: Subconsultants shall be listed on Standard Form 330.

---

*Question 11: Regarding Addendum 5, can you please clarify the following:*

- *Item 5 on page 2 revises the proposal content from the original RFQ – will there be an additional deadline extension to revise our proposals?*

- *The new content shows as follows:*
  - *TAB 1: Table of Contents*
  - *TAB 2: Letter of Interest (SF 330 information is requested in this section)*
  - *TAB 3: Standard Form 330 (do you want the SF 330 twice?)*
  - *TAB 4: Project Team/Manager's Experience (Form - Exhibit B) – (elsewhere in this addendum it is noted that Exhibit B is replaced by SF 330 – do we include Exhibit B or not?)*
  - *TAB 4: Approach to Handling of Potential Projects (there are two Tab 4s – do we change this to Tab 5 and revise the other tab numbers accordingly?)*
  - *In which Tab should we include Exhibit A?*

Answer 11: Proposal due date has been extended to *Tuesday, January 21, 2025 at 3:00 PM EST*. SF 330 replaced Exhibit B. The TABs have been updated; please see Section A. of Addendum No. 6. Exhibit A should be submitted under TAB 6.

---

*Question 12: In regards to the Addendum #5 which was just issued for the above noted RFQ, I have the following questions. Under section A.5 on page 2, the Standard Form 330 is called out for under Tab #2 (items e and f) and also at the beginning of Tab #3. In addition, under the first noted Tab #4 (mid paragraph in the middle of page 2), Exhibit B is still called out which according to section A.6 on page 3, should be replaced with the SF330 form. So, where in fact do you want the SF 330 included?*

Answer 12: Please see Section A. of Addendum No. 6.

---

*Question 13: In regards to the Addendum #5 which was just issued for the above noted RFQ, I have the following questions. Also under section A.5 on page 2, there appear to be multiple Tab #4 sections now listed (mid paragraph in the middle and also at the bottom of page 2). Is this correct or if not, how should these Tabs be numbered?*

Answer 13: Please see Section A. of Addendum No. 6.

---

*Question 14: In regards to the Addendum #5 which was just issued for the above noted RFQ, I have the following questions. Under section A.5 on page 3, the Tab #5 References now states that a minimum of 5 references shall be provided for **each service** that the Proposer wishes to be considered for. So for example, a proposer who wishes to be considered for providing the 5 services listed under the Transportation discipline along with the 5 services listed under the Water/Wastewater/Stormwater discipline would need to provide 50 references (i.e. 10 services x 5 references per service). Would this be correct?*

Answer 14: No, 5 references per discipline. See Section A. of Addendum No. 6.

---

*Question 15: Where in our submittal should we include Exhibit A?*

Answer 15: Exhibit A should be included under TAB 6. See Section A. of Addendum No. 6.

---

*Question 16: Could you please confirm the term "References" refers to providing five project examples for each service, rather than reference letters from other clients?*

Answer 16: Provide a minimum of five (5) references, for each discipline that the Proposer's wishes to be considered for. Each reference shall be able to confirm the Proposer's experience and performance within the last five (5) years. References shall be from clients of similar size and complexity to Cooper City or larger municipalities, for which the Proposer has performed scopes similar those listed in this RFP. Proposers shall include the following information for each reference:

- Client Name, address, contact person, email address and phone number
- Description of service(s)/work performed
- Year the project was completed
- Total of fee(s) paid to firm
- Total cost of the construction, both estimated and actual.

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*Question 17: In the References TAB, can one project cover more than one service? For example, one project covering both Civil and Landscape Architecture*

Answer 17: Yes, just ensure that reference highlights each discipline in which it will cover.

*Question 18: Addendum #5 Response 4. Kept due date of December 13? and by the City Clerk's Office, City of Cooper City, 9090 SW 50th Place, Cooper City, Florida until 3:00 PM, Friday, December 13, 2024.*

Answer 18: Section A. of Addendum No. 6 extended the Proposal Due Date to Monday, January 20, 2025 at 3:00 PM EST.

*Question 19: On page 2 of 4, You have Tab 4 listed as Project Team/Manager's experience and then you have another Tab 4 of Approach to Handling the Potential Projects?*

*TAB 4: Project Team/Manager's Experience (Form - Exhibit B) Proposers*

*TAB 4: Approach to Handling of Potential Projects*

Answer 19: The TABs have been updated. Please see Section A. of Addendum No. 6.

*Question 20: On Page 2 of 4, you request licenses in Tab 3 and also in the first Tab 4. Where would you like the licenses placed?*

Answer 20: The TABs have been updated. Please see Section A. of Addendum No. 6.

*Question 21: Answer 6 states Exhibit B has been replaced with SF-330s. However, in your first Tab 4, you request Exhibit B Page 2 of 4 (really 2 of 8). Do you want Exhibit B or not and if not what do you want under Tab 4. Project Team?*

*TAB 4: Project Team/Manager's Experience (Form - Exhibit B) Proposers must list the members of the project team per discipline. Provide a list of the personnel to be used on each project.*

Answer 21: The TABs have been updated. Please see Section A. of Addendum No. 6. Project team shall be input on SF 330.

#### **Acknowledgment of Addendum #6**

Bidders hereby acknowledges that he/she has received and understands the information contained in this Addendum. Bidders further acknowledges that this page **MUST** be signed and returned with its Bid, along with any revised Bid Forms, if applicable.

Acknowledged by: 

Print Name:

Patrick J. Gibney, P.E., V.P., Engineering

Company:

Craven, Thompson & Associates, Inc.

Date:

January 3, 2025



## Addendum #7

(Issued Friday, January 3, 2025)

### RFQ 2024-1-PW, Continuing Professional Consulting Services (CCNA)

*This addendum becomes a part of the subject solicitation.*

#### **A. CHANGES TO THE SOLICITATION:**

*Please note the following changes to the Solicitation:*

1. Section 2.4, Statement of Qualifications Content has been **replaced** with the following:

#### **2.4 Statement of Qualifications Content:**

Consultants interested in performing these professional services must identify which area(s) the firm(s) are interested in being considered. Consultants must display considerable relevant experience with the specified type of work (as listed on Exhibit "A") and should emphasize both the experience and capability of particular personnel who will actually perform the work. In order to ensure a uniform review process and to obtain the maximum degree of comparability, it is required that the Statements of Qualifications be organized in the manner specified. The following information and documents are required to be provided with Proposer's Statement of Qualifications. Failure to do so may deem your Statement of Qualifications non-responsive.

#### **TAB 1: Table of Contents**

The table of contents should outline in sequential order the major areas of the Statement of Qualifications, including enclosures. All pages must be consecutively numbered and correspond to the Table of Contents.

#### **TAB 2: Letter of Interest**

Provide a Letter of Interest indicating your firm's commitment to the project. Letter of interest shall include which area(s) the Proposer is interested in being considered for. The letter shall also include the following:

- a. Size of firm, to include the number of employees or staff members (including management, technical and support staff);
- b. Range of activities
- c. Firms strength and stability
- d. Location of firm; proximity to the City of Cooper City
- e. Summary of abilities and experience of the firms' professional personnel
- f. Summary of past performance of the firm on similar projects
- g. Indicate the firm's number of years of experience in providing Engineering / Architect and or professional services and Business structure (Corp., Partnership, etc.) with proof;
- h. Recent, current, and projected workload of the firm, and availability and access to the firms' top level management personnel.
- i. Identification of firms, single, professionally licensed point of contact for all City projects.

**TAB 3: Standard Form 330**

*Proposers shall complete both Part I and II of the Standard Form 330 so that the City can obtain adequate information for this RFQ. Proposer's shall use the attached Standard Form 330 or visit <https://www.gsa.gov/forms-library/architect-engineer-qualifications> for a PDF fillable version of this form. Tab 3 must include a list of the personnel to be used on each project and their qualifications. A brief resume including education, experience, licenses and any other pertinent information (such as company address, phone number, E-Mail address, web site, contact person(s), etc.) shall be included for each team member, for each project, to be assigned to each project. Provide any other documentation that demonstrates their ability to satisfy all of the minimum qualification requirements. Provide a summary of the experience and qualifications of the individual(s) who will be selected to serve as project managers for the City. Individuals MUST have a minimum of five (5) years' experience in architectural, engineering, or landscape architectural services, and have served as project manager/construction manager on similar projects on a minimum of three previous occasions. All additional information shall be included in Section H. Additional Information of SF 330.*

**TAB 4: Professional Registration Certificates**

A reproduction of the firm's current professional registration certificate(s) is required for the services offered and must be in the name of the firm offering said services (architecture, engineering, general contractor or other certification required). Firms must be properly registered at the time of application to practice their profession in the State of Florida and with the appropriate State Board governing the services offered. Firm should be established as a legal entity in the State of Florida.

**TAB 5: Approach to Handling of Potential Projects**

Describe your proposed approach to the project(s) that may be assigned to your firm. As part of the project approach, the firm shall propose a scheduling methodology (timeline) for effectively managing and executing the work in the optimum time. Provide the methodology or approach to formulating an "Opinion of Project Cost" Also provide information on your firm's current workload and how the potential project(s) will fit into your workload. Describe available facilities, technological capabilities and other available resources you offer for the potential project(s). Provide in concise narrative form, your understanding of the City's needs, goals and objectives as they relate to the potential project(s), and your overall approach to accomplishing the project(s). Give an overview on your proposed vision, ideas and methodology.

**TAB 6: Exhibit A/References**

*Proposers shall complete Exhibit A – Services to be Considered For and provide a minimum of five (5) references, for each discipline that the Proposer's wishes to be considered for. Each reference shall be able to confirm the Proposer's experience and performance within the last five (5) years. References shall be from clients of similar size and complexity to Cooper City or larger municipalities, for which the Proposer has performed scopes similar those listed in this RFP. Proposers shall include the following information for each reference:*

- Client Name, address, contact person, email address and phone number
- Description of service(s)/work performed
- Year the project was completed
- Total of fee(s) paid to firm
- Total cost of the construction, both estimated and actual.

**TAB 7: Attached Forms**

- Proposal Certification Form
- Sworn Statement regarding Public Entities Crimes
- Non-Collusion Form
- Scrutinized Companies Certification Form
- E-verify Certification Form
- Conflict of Interest Disclosure Form
- Acknowledgement of Addendum(s)

**B. QUESTION AND ANSWERS:**

*The following questions were received during the Question-and-Answer period.*

*Question 1: Would you like us to include the signed addendums under the forms section?*

Answer 1: The signed addendums should be included in Tab 7.

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*Question 2: On Page 2, Tab 3 includes Exhibit A and then Tab 6 includes Exhibit A – Do you want this in both places?*

Answer 2: Exhibit A has been removed from Tab 3. Please see Section A. of Addendum No. 7.

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*Question 3: Due date is January 21, 2025 – on Question 18 it refers to January 20? Please confirm Question 18: Addendum #5 Response 4. Kept due date of December 13? and by the City Clerk's Office, City of Cooper City, 9090 SW 50th Place, Cooper City, Florida until 3:00 PM, Friday, December 13, 2024.*

Answer 3: Proposal due date is Tuesday, January 21, 2025 at 3:00 PM EST.

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*Question 4. Since Exhibit A is to be included in Tab 6, shouldn't "Exhibit A" be deleted from the title of Tab 3?*

Answer 4: Exhibit A has been removed from Tab 3. Please see Section A. of Addendum No. 7.

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**Acknowledgment of Addendum #7**

*Bidders hereby acknowledges that he/she has received and understands the information contained in this Addendum. Bidders further acknowledges that this page **MUST** be signed and returned with its Bid, along with any revised Bid Forms, if applicable.*

*Acknowledged by:*

*Print Name:*

  
Patrick J. Gibney, P.E., V.P., Engineering

*Company:*

Craven, Thompson & Associates, Inc.

*Date:*

January 8, 2025