



SURVEYING AND MAPPING CONSULTING SERVICES FOR  
NEIGHBORHOOD LIGHTING & STREETScape ENHANCEMENT  
DCRA 19-026

COPY



FLORIDA'S  
**Hollywood**  
COMMUNITY REDEVELOPMENT AGENCY

Jennifer Malin, P.S.M., Engenuity Group, Inc.  
300 Lock Road, Suite 302  
Deerfield Beach, FL 33442  
(954) 895-0174  
August 27, 2019





# TABLE OF CONTENTS

LETTER OF TRANSMITTAL.....	1
STANDARD FORMS 330.....	3
PROFILE OF CONSULTANT.....	30

FLORIDA'S  
**Hollywood**  
COMMUNITY REDEVELOPMENT AGENCY





LETTER OF TRANSMITTAL

FLORIDA'S

# Hollywood

COMMUNITY REDEVELOPMENT AGENCY





ENGINEERS SURVEYORS GIS MAPPERS

Selection Committee  
Hollywood CRA  
City Hall  
2600 Hollywood Blvd., Room 221  
Hollywood, FL 33020

August 27, 2019



C. ANDRE RAYMAN, P.S.M.

KEITH B. JACKSON, P.E.

LISA A. TROPEPE, P.E.

ADAM SWANEY, P.E., LEED AP

JENNIFER MALIN, P.S.M.

**Re: Surveying and Mapping Services for Neighborhood Lighting & Streetscape Enhancement, Project # DCRA 19-026**

Dear Members of the Committee:

**Engenuity Group, Inc.** is pleased to present to the **Hollywood CRA** our team's qualifications to provide Professional Consulting Services. **Engenuity Group** is submitting qualifications in the discipline of Land Surveying and Mapping to include design surveys, construction layouts, boundary surveys, sketch and legal descriptions, mapping, AutoCAD drafting, records research, calculations and any other related survey and mapping tasks.

**Engenuity Group, Inc.** was established in 1978, and celebrated its 40th anniversary last year. Surveying and Mapping services were added to our team in 1984. For over 40 years, **Engenuity Group** has been providing professional civil engineering and land surveying services in South Florida. We have made a conscious decision to specialize in being the surveying consultant of choice for governmental institutions, municipalities and special districts. This niche comprises over 70 percent of our firm's business.

The **Engenuity** Team has five (5) principals; our president Andre Rayman, P.S.M., Lisa Tropepe, P.E., Keith Jackson, P.E., Adam Swaney P.E. and Jennifer Malin, P.S.M. Our survey department has four (4) full time professional surveyors, Andre Rayman, P.S.M., Jennifer Malin, P.S.M., John Rice, P.S.M. and Gary Rayman, P.S.M. with a combined pool of over **130** years of licensed surveying experience.

The Hollywood CRA will have a dedicated team of one (1) professional surveyor (Ms. Malin) as a project manager, one (1) project surveyor (Mr. Williams), one (1) AutoCAD drafter (Mr. Kupsick), a veteran survey crew (Mr. Saffold) and an independent quality controller professional surveyor (Mr. Rayman). One of our other survey crews (Mr. Hager) is available if demand dictates, with the team roles further detailed in the *Organizational Chart and Approach to Scope* under Tab 3.

The work will be performed at our office located in Broward County, Deerfield Beach, FL, 33442, at 300 Lock Road, Suite 302, PH (954) 895-0174.

The authorized representative of our firm will be:

**Jennifer Malin, P.S.M., Director of Surveying**

(954) 895-0174 (O)

(561) 809-1115 (C)

jmalin@engenuitygroup.com

Ms. Malin will be the Project Manager for all projects resulting from this contract. She is also our Director of Surveying and is readily available twenty four hours a day, seven days a week.

Our team has thoroughly reviewed and studied the area and limits of the projects that may come from this contract and understands the scope of surveying work that will be required from major roadways to smaller side streets and alleyways. We are confident that **Engenuity Group** presents the most dedicated and qualified professional team to quickly and efficiently complete the CRA's projects. Our services to the CRA will include field crew(s) working on nights, weekends and holidays, if needed.

We currently run AutoCAD Civil Design 2020 to produce our final CAD product. We are well versed in CAD standards, field codes and block definitions. Our CAD prototype follows the national naming standards. Our firm also performs civil engineering services, therefore we have full understanding of what survey data is needed for design, which makes us even more efficient and precise.

We have recently completed similar streetscape projects in Sunrise, Margate, Pembroke Pines, Hollywood, as well as cities in Palm Beach County such as Riviera Beach, West Palm Beach, Lake Worth, and Wellington. We currently perform similar survey work for Westgate CRA, Lake Park CRA, West Palm Beach CRA, Riviera Beach CRA, Boynton Beach CRA and Delray Beach CRA in Palm Beach County. Our extensive knowledge and understanding of municipalities and Community Redevelopment Agencies together with our commitment to deliver top shelf yet economically feasible services to the CRA make us the team that can exceed your expectations.

On behalf of the firm, we thank you for your consideration and feel sure that we have conveyed our sincerity and commitment to provide professional land surveying and mapping services to the Hollywood CRA.

Sincerely,  
**Engenuity Group, Inc.**



A handwritten signature in blue ink that reads "Jmalin".

Jennifer Malin, P.S.M.  
Vice President, Director of Surveying



STANDARD FORM 330

# Hollywood

FLORIDA'S

COMMUNITY REDEVELOPMENT AGENCY



**ARCHITECT - ENGINEER QUALIFICATIONS**

**PART I - CONTRACT-SPECIFIC QUALIFICATIONS**

**A. CONTRACT INFORMATION**

1. TITLE AND LOCATION (City and State)

**Surveying and Mapping Services for Neighborhood Lighting & Streetscape  
 (Hollywood, FL)**

2. PUBLIC NOTICE DATE

**August 26, 2019**

3. SOLICITATION OR PROJECT NUMBER

**DCRA 19-026**

**B. ARCHITECT-ENGINEER POINT OF CONTACT**

4. NAME AND TITLE

**Jennifer Malin, P.S.M., Vice President**

5. NAME OF FIRM

**Engenuity Group, Inc.**

6. TELEPHONE NUMBER

**(561) 655-1151**

7. FAX NUMBER

**(561) 832-9390**

8. E-MAIL ADDRESS

[jmalin@engenuitygroup.com](mailto:jmalin@engenuitygroup.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	PARTN	INTRACT			
a.	X				<b>Engenuity Group, Inc.</b>  <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	300 Lock Road, Suite 302 Deerfield Beach, FL 33442	Surveying/Mapping & GIS Services
b.					<input type="checkbox"/> CHECK IF BRANCH OFFICE		
c.					<input type="checkbox"/> CHECK IF BRANCH OFFICE		
d.					<input type="checkbox"/> CHECK IF BRANCH OFFICE		
e.					<input type="checkbox"/> CHECK IF BRANCH OFFICE		

**D. ORGANIZATIONAL CHART OF PROPOSED TEAM**

(Attached)

# ORGANIZATIONAL CHART



Photo by Florida Aerial Services, Inc.

071708-7977

## DCRA 19-026

# SURVEYING AND MAPPING CONSULTING SERVICES

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

(Complete one Section E for each key person.)

<b>12. NAME</b> <b>Jennifer Malin, P.S.M.</b>	<b>13. ROLE IN THIS CONTRACT</b> <b>Project Manager</b>	<b>14. YEARS EXPERIENCE</b> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; border-bottom: 1px solid black;">a. TOTAL</td> <td style="width: 50%; border-bottom: 1px solid black;">b. WITH CURRENT FIRM</td> </tr> <tr> <td style="text-align: center; font-weight: bold;">16</td> <td style="text-align: center; font-weight: bold;">11</td> </tr> </table>		a. TOTAL	b. WITH CURRENT FIRM	16	11
a. TOTAL	b. WITH CURRENT FIRM						
16	11						
<b>15. FIRM NAME AND LOCATION (City and State)</b> <b>Engenuity Group, Inc. (West Palm Beach, Florida)</b>							
<b>16. EDUCATION (DEGREE AND SPECIALIZATION)</b> <b>B.S./ Land Surveying/Mapping</b>		<b>17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)</b> <b>Florida/ Surveying &amp; Mapping</b>					
<b>18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)</b> Member of Florida Surveying & Mapping Society Qualified Stormwater Management Inspector							

**19. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
a.	<b>Boundary Survey of 1220 Sunset Strip</b> (Sunrise, Florida)	2019	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Engenuity Group was awarded a continuing services contract for land surveying projects with the City of Sunrise just earlier this year. Our first project was to prepare a boundary survey for the City's efforts to purchase the above referenced property. The deliverable showed boundary lines and contained the legal description, area square feet, identified adjoining streets and landmarks, plotted structures, showed encroachments, described fences and walls, showed right-of-ways and noted street widenings. Ms. Malin served as Project Manager.		
b.	<b>Parkland Royale</b> (Parkland, Florida)	Ongoing	Ongoing
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <ul style="list-style-type: none"> <li>Boundary, Topographic and Alta Survey</li> <li>Plat Preparation</li> <li>Sketch and Descriptions</li> </ul>		
c.	<b>Beach Road Widening (North of Bridge Rd)</b> (Hobe Sound, Florida)	Ongoing	Ongoing
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <ul style="list-style-type: none"> <li>Located sufficient horizontal control points to register the previously created map to the vertical data</li> <li>Quality controlled the horizontal features and made updates</li> <li>Collected elevations at 50' stations and high/low points</li> <li>Provided topography in the wooded conservation areas for future drainage design</li> </ul>		
d.	<b>City of Margate- Forcemain Addition</b> (Margate, Florida)	2016	2017
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <ul style="list-style-type: none"> <li>Topographic Route Survey of Southgate Blvd &amp; Rock Island Road</li> </ul>		
e.	<b>Johnson Street Route Survey</b> (Hollywood, Florida)	2014	2015
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		

- Located and identified all above ground and underground utilities, collecting elevations at 100' intervals.
- Provided rim and invert elevations, pipe size and type on gravity sewers and outfalls
- Provided locations of buildings, concrete pads, valve boxes, meter/electrical boxes telephone/cable risers, fences, hydrants, etc.
- Located vegetation and trees
- Provided location of markings indicating underground utilities.

	<p>(1) TITLE AND LOCATION (City and State)  <b>Lighthouse Drive</b>          (North Palm Beach, Florida)</p>	<p>(2) YEAR COMPLETED</p> <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;">2018</td> <td style="text-align: center;">N/A</td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	2018	N/A
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)						
2018	N/A						
f.	<p>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm</p> <p>Served as Project Manager, assisting the Village of North Palm Beach in creating a Lighthouse Drive Concept Study. Responsible for the preparation of a topographic survey that included location of all features and utilities from the bridge to US-1.</p>						
	<p>(1) TITLE AND LOCATION (City and State)  <b>Various Projects- Village of North Palm Beach</b>          (North Palm Beach, Florida)</p>	<p>(2) YEAR COMPLETED</p> <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;">Ongoing</td> <td style="text-align: center;">N/A</td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	Ongoing	N/A
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)						
Ongoing	N/A						
g.	<p>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm</p> <p>Mrs. Malin has completed various projects for the Village of North Palm Beach of which Engenuity Group, Inc. is the Village Engineer for. Some examples of these are as follows:</p> <ul style="list-style-type: none"> <li>• NPDES Annual Reports</li> <li>• Yacht Club Drive Bulkhead</li> <li>• Golf Course Boundary for New Layout</li> <li>• Sketch &amp; Legal Descriptions</li> <li>• Old Port Cove Drainage System Mapping</li> <li>• Golf Course Boundary &amp; Topographic Survey</li> <li>• Boundary &amp; Topographic Survey for Anchorage Park</li> <li>• Topographic Survey of Corsair Drive</li> <li>• Topographic and Boundary Survey for NPB Golf Course</li> </ul>						
	<p>(1) TITLE AND LOCATION (City and State)  <b>Solid Waste Authority</b>          (West Palm Beach, Florida)</p>	<p>(2) YEAR COMPLETED</p> <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;">2017</td> <td style="text-align: center;">2018</td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	2017	2018
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)						
2017	2018						
h.	<p>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm</p> <p>Engenuity Group, Inc. has been a sub-consultant for Surveying for multiple firms including Brown &amp; Caldwell &amp; CDM Smith for projects for the SWA. Mrs. Malin has worked on them including the titanic Waste to Energy Plant. She performed the following services:</p> <ul style="list-style-type: none"> <li>• Establish a Control Network</li> <li>• Layout for Construction</li> <li>• As-built Survey</li> </ul>						
	<p>(1) TITLE AND LOCATION (City and State)  <b>Various Projects- Town of Ocean Ridge</b>          (Ocean Ridge, Florida)</p>	<p>(2) YEAR COMPLETED</p> <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;">Ongoing</td> <td style="text-align: center;">N/A</td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	Ongoing	N/A
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)						
Ongoing	N/A						
i.	<p>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm</p>						

Engenuity Group, Inc. has been the Town Engineer for the Town of Ocean Ridge, Florida since the year 2000 and still currently holds the contract there. We have done a truly incredible amount of project for the Town over the past 15 years in Civil Engineering, Land Surveying, & GIS Mapping. Jennifer has done work for the Town in the following areas:

- Basemap for Town Usage
- Topographic Survey for Stormwater Design
- Coconut Lane Right-of-way and Alleyway Improvements
- Topographic & Boundary Survey for South Phase Improvements – Pump Station

(1) TITLE AND LOCATION (City and State) <b>Various Projects</b> (West Palm Beach, Florida)		(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) N/A
j.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm
	<ul style="list-style-type: none"> <li>• Topographic Survey for Palm Beach Lake Boulevard</li> <li>• Topographic Survey for Cumberland Drive</li> <li>• Topographic Survey Olive Avenue from Quadrille St to 6<sup>th</sup> St</li> <li>• Boundary, Topographic and Hydrographic Survey of Flagler Drive</li> <li>• Bathymetric Survey for Environmental Analyses for Waterfront Facilities</li> <li>• Specific Purpose Survey of Spruce Avenue from 25<sup>th</sup> Street to 40<sup>th</sup> Street</li> </ul>		
(1) TITLE AND LOCATION (City and State) <b>Various Projects – Village of Wellington</b> (Wellington, Florida)		(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) N/A
k.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm
	<ul style="list-style-type: none"> <li>• Topographic Survey for Big Blue with Sketch and Descriptions of encroachments</li> <li>• Topographic Survey for Rustic Ranches</li> <li>• Topographic Survey for 50<sup>th</sup> Street South</li> <li>• Underground Utility Locating and Topographic Survey for Watermain Replacement</li> <li>• Topographic Survey Southshore Boulevard Phase III</li> <li>• Topographic Survey of Big Blue Trace and Paddock Drive</li> <li>• Topographic Survey of Pierson Road</li> <li>• Topographic Survey of Fairlane Farms Road</li> </ul>		
(1) TITLE AND LOCATION (City and State) <b>City of Greenacres</b> (Greenacres, Florida)		(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) N/A
l.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm
	<ul style="list-style-type: none"> <li>• Topographic Survey for Original Section Drainage Improvements</li> <li>• Topographic Survey for Clearing and Reconstruction of the Alleyways between Perry Avenue and Fleming Avenue</li> </ul>		

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

(Complete one Section E for each key person.)

12. NAME <b>Joseph Williams</b>	13. ROLE IN THIS CONTRACT <b>Project Surveyor</b>	14. YEARS EXPERIENCE	
		a. TOTAL <b>12</b>	b. WITH CURRENT FIRM <b>3</b>
15. FIRM NAME AND LOCATION (City and State) <b>Engenuity Group, Inc.</b> (West Palm Beach, Florida)			
16. EDUCATION (DEGREE AND SPECIALIZATION) <b>High School</b>		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			

**19. RELEVANT PROJECTS**

<b>a.</b>	(1) TITLE AND LOCATION (City and State) <b>1220 Sunset Strip</b> (Sunrise, Florida)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2019	CONSTRUCTION (If applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <ul style="list-style-type: none"> <li>Boundary Survey</li> </ul> <input type="checkbox"/> Check if project performed with current firm		
<b>b.</b>	(1) TITLE AND LOCATION (City and State) <b>Lighthouse Drive</b> (North Palm Beach, Florida)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2018	CONSTRUCTION (If applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Project Surveyor for the Village of North Palm Beach's Concept Study, providing a topographic survey that included the location of all features and utilities from the bridge to US-1.		
<b>c.</b>	(1) TITLE AND LOCATION (City and State) <b>Village of Wellington</b> (Wellington, Florida)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm <ul style="list-style-type: none"> <li>Topographic Survey for Big Blue with Sketch and Descriptions of encroachments</li> <li>Topographic Survey for Rustic Ranches</li> <li>Underground Utility Locating and Topographic Survey for Watermain Replacement Project</li> <li>Topographic Survey Southshore Boulevard Phase III</li> <li>Topographic Survey of Big Blue Trace and Paddock Drive</li> <li>Topographic Survey of Pierson Road</li> <li>Topographic Survey of Fairlane Farms Road</li> <li>Topographic Survey of Stribling Way &amp; Fairlane Farms Road</li> <li>Boundary Survey, Alta Survey, FEMA certificate of Lake Wellington Professional Center</li> <li>Topographic Survey of Flying Cow Road</li> </ul>		
<b>d.</b>	(1) TITLE AND LOCATION (City and State) <b>City of Riviera Beach</b> (Riviera Beach, Florida)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		

- Sketch and descriptions for access easements for Utility Plant
- Topographic Survey of 13<sup>th</sup> Street (Dixie Highway to Avenue P)
- Topographic Survey of Blue Heron Blvd/Avenue P intersection
- Topographic survey of Avenue T and RC-5 Canal
- Topographic Survey of Avenue S and 23<sup>rd</sup> Street Topographic Survey for Fire Station No.2 at Barracuda Bay
- Topographic Survey and Staking at Dune Walkover Reestablishment
- Topographic Surveys of 18 City Streets for a total of about 21,00 Feet
- Boundary Survey of City Hall
- Topographic Survey of East 25th Street
- Topographic and Tree Survey of DCF, Site No.110
- GIS services for Stormwater Project

<p>(1) TITLE AND LOCATION (City and State)  <b>Village of Palm Springs</b>  (Palm Springs, Florida)</p>	(2) YEAR COMPLETED <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;">Ongoing</td> <td style="text-align: center;">N/A</td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	Ongoing	N/A
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)					
Ongoing	N/A					
<p>e. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</p> <ul style="list-style-type: none"> <li>• As-Builts</li> <li>• GIS Services</li> <li>• Fitness Pavilion Boundary &amp; Topographic Survey</li> </ul>	<input checked="" type="checkbox"/> Check if project performed with current firm					
<p>(1) TITLE AND LOCATION (City and State)  <b>Palm Beach County</b>  (Palm Beach County, Florida)</p>	(2) YEAR COMPLETED <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;">2018</td> <td style="text-align: center;">N/A</td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	2018	N/A
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)					
2018	N/A					
<p>f. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</p> <ul style="list-style-type: none"> <li>• Topographic Survey for design of Water Utilities Department Watermain Improvements</li> <li>• Haverhill Road from Caribbean Blvd to Beeline Highway</li> </ul>	<input checked="" type="checkbox"/> Check if project performed with current firm					
<p>(1) TITLE AND LOCATION (City and State)  <b>City of Palm Beach Gardens</b>  (Palm Beach Gardens, Florida)</p>	(2) YEAR COMPLETED <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;">Ongoing</td> <td style="text-align: center;">N/A</td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	Ongoing	N/A
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)					
Ongoing	N/A					
<p>g. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</p> <ul style="list-style-type: none"> <li>• Topographic Survey and As-Builts of Allamanda Blvd</li> <li>• Topographic Survey of Shady Lakes Drive</li> <li>• Topographic Survey for Campus Drive</li> <li>• Construction Layout for City Park and Tennis Center</li> <li>• Topographic Survey for City Hall Administrative Complex</li> <li>• Topographic Survey of 3 Bridges</li> <li>• Topographic Survey for Balsamo Open Parcel</li> <li>• Boundary Survey of City Bank</li> </ul>	<input checked="" type="checkbox"/> Check if project performed with current firm					
<p>(1) TITLE AND LOCATION (City and State)  <b>Parkland Royale</b>  (Parkland, Florida)</p>	(2) YEAR COMPLETED <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;"></td> <td style="text-align: center;"></td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)		
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)					
<p>r. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</p> <ul style="list-style-type: none"> <li>• Boundary, Topographic and Alta Survey</li> </ul>	<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.)

<b>12. NAME</b> Travis Morrell	<b>13. ROLE IN THIS CONTRACT</b> Field Crew Coordinator	<b>14. YEARS EXPERIENCE</b>	
		<b>a. TOTAL</b> 12	<b>b. WITH CURRENT FIRM</b> 1

<b>15. FIRM NAME AND LOCATION (City and State)</b> Engenuity Group, Inc. (West Palm Beach, Florida)
--

<b>16. EDUCATION (DEGREE AND SPECIALIZATION)</b> AutoCAD Comprehensive Course, Broward Community College, 2007 Greenwich High School, Greenwich, CT, 1998	<b>17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)</b>
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**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.	<b>Village of Wellington</b> (Wellington, FL)	2018-Present	N/A
	<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> <input checked="" type="checkbox"/> Check if project performed with current firm <ul style="list-style-type: none"> <li>Topographic Survey of C-2 Canal at Bridle Crossing</li> <li>Topographic Survey of C-2 Canal and C-24D Canal Intersection</li> <li>Right-of-way staking from Pump Station #3 south towards Acme Improvement District right-of-way</li> </ul>		
b.	<b>City of West Palm Beach</b> (West Palm Beach, FL)	2019	N/A
	<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> <input checked="" type="checkbox"/> Check if project performed with current firm <ul style="list-style-type: none"> <li>Boundary Survey of City Golf Course</li> </ul>		
c.	<b>City of Boynton Beach</b> (Boynton Beach, FL)	2019	N/A
	<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> <input checked="" type="checkbox"/> Check if project performed with current firm <ul style="list-style-type: none"> <li>Staking of Property Lines north of Landfill</li> <li>Boundary Survey of Tract 1 &amp; 2</li> </ul>		
d.	<b>City of Sunrise</b> (Sunrise, FL)	2019	N/A
	<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> <input checked="" type="checkbox"/> Check if project performed with current firm <ul style="list-style-type: none"> <li>Boundary Survey of 1220 NW 61<sup>st</sup> Avenue</li> </ul>		
e.	<b>Urban Core Mobility Plan Survey</b> (Delray Beach, FL)	2019	N/A
	<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> <input checked="" type="checkbox"/> Check if project performed with current firm <ul style="list-style-type: none"> <li>Topographic Survey</li> </ul>		
f.	<b>Monterey House Survey</b> (Highland Beach, FL)	2019	N/A
	<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> <input checked="" type="checkbox"/> Check if project performed with current firm <ul style="list-style-type: none"> <li>Special Purpose Survey (lowest &amp; highest elevation)</li> </ul>		

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

(Complete one Section E for each key person.)

<b>12. NAME</b> <b>David Kupsick</b>	<b>13. ROLE IN THIS CONTRACT</b> <b>Drafting Manager</b>	<b>14. YEARS EXPERIENCE</b>	
		<b>a. TOTAL</b> <b>35</b>	<b>b. WITH CURRENT FIRM</b> <b>1</b>
<b>15. FIRM NAME AND LOCATION (City and State)</b> <b>Engenuity Group, Inc. (West Palm Beach, Florida)</b>			
<b>16. EDUCATION (DEGREE AND SPECIALIZATION)</b> <b>B.A., Mathematics, FAU, 1987</b>		<b>17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)</b>	
<b>18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)</b>			

**19. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
<b>a.</b>	<b>FWMD Stormwater Treatment Area (STA) A-2</b> (Everglades Agricultural Area, FL)	2019	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <ul style="list-style-type: none"> <li>• Sketch &amp; description</li> <li>• Topographic Survey</li> </ul>		
<b>b.</b>	<b>City of Riviera Beach</b> (Riviera Beach, FL)	2019-Present	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Under our continuing surveying contract Mr. Kupsick is Project Surveyor for various projects throughout the City. He has prepared a <ul style="list-style-type: none"> <li>• Topographic Survey of 34th Street from Avenue H to Avenue J,</li> <li>• Topographic Survey of 35th Street from Avenue J to Avenue H'</li> <li>• Topographic Survey of 36th Street from Avenue J to Avenue H, and a</li> <li>• Topographic Survey of Park Manor.</li> </ul>		
<b>c.</b>	<b>Monterey Pointe Neighborhood at PGA National</b> (Palm Beach Gardens, FL)	2019	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Prepared a topographic survey of a predetermined area of this neighborhood in connection with the development of their HOA.		
<b>d.</b>	<b>South Florida Water Management District Projects</b> (SFWMD- Various Locations)	2019	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Prepared a topographic survey with cross sections for <ul style="list-style-type: none"> <li>• North New River Canal</li> <li>• Bolles Canal</li> <li>• L-15 Canal</li> <li>• As-built Survey for levees, distribution and spreader canals</li> <li>• Three Lakes Wildlife Management Area Compartment "B" &amp; "C"</li> </ul>		

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

(Complete one Section E for each key person.)

12. NAME <b>Derek S. Saffold</b>	13. ROLE IN THIS PROJECT <b>Crew Chief</b>	14. YEARS EXPERIENCE	
		a. TOTAL <b>11</b>	b. WITH CURRENT FIRM <b>2</b>
15. FIRM NAME AND LOCATION (City and State) <b>Engenuity Group, Inc. (West Palm Beach, Florida)</b>			
16. EDUCATION (DEGREE AND SPECIALIZATION) <b>High School</b>		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)	
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.	<b>Village of Wellington</b> (Wellington, Florida)	Ongoing	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <ul style="list-style-type: none"> <li>As Builts</li> <li>Topographic Surveys</li> <li>Right of way Staking</li> </ul>		
b.	<b>Solid Waste Authority</b> (West Palm 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 <ul style="list-style-type: none"> <li>As-Builts</li> <li>Construction Layout</li> </ul>		
c.	<b>WPB ECRWF AWT Facility Renovations</b> (West Palm Beach, Florida)	2019	Ongoing
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <ul style="list-style-type: none"> <li>Topographic Survey</li> </ul>		
d.	<b>City of West Palm Beach</b> (West Palm Beach, Florida)	Ongoing	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <ul style="list-style-type: none"> <li>As-Builts</li> <li>Construction Layout</li> </ul>		
e.	<b>Village (Tuttle) Royale</b> (Royal Palm Beach, Florida)	Ongoing	Ongoing
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <ul style="list-style-type: none"> <li>Topographic Survey</li> <li>Boundary Survey</li> </ul>		
f.	<b>PBCWUD Watermain Improvements</b> (West Palm Beach, Florida)	2017	2017
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <ul style="list-style-type: none"> <li>Topographic &amp; Tree Survey</li> </ul>		

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

(Complete one Section E for each key person.)

12. NAME <b>James Hager</b>	13. ROLE IN THIS PROJECT <b>Crew Chief</b>	14. YEARS EXPERIENCE	
		a. TOTAL <b>11</b>	b. WITH CURRENT FIRM <b>2</b>
15. FIRM NAME AND LOCATION (City and State) <b>Engenuity Group, Inc. (West Palm Beach, Florida)</b>			
16. EDUCATION (DEGREE AND SPECIALIZATION) <b>High School</b>		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)	
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.	<b>Village of Wellington</b> (Wellington, Florida)	Ongoing	Ongoing
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <ul style="list-style-type: none"> <li>As Built</li> <li>Topographic Surveys</li> <li>Right of way Staking</li> <li>Boundary Survey of Essex Park</li> <li>Topographic Survey of Essex Park</li> <li>Topographic Survey of Pump Station #3</li> </ul>		<input checked="" type="checkbox"/> Check if project performed with current firm
b.	<b>Village (Tuttle) Royale</b> (West Palm Beach, Florida)	Ongoing	Ongoing
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <ul style="list-style-type: none"> <li>Topographic Survey</li> <li>Boundary Survey</li> <li>Construction Survey</li> </ul>		<input checked="" type="checkbox"/> Check if project performed with current firm
c.	<b>Solid Waste Authority</b> (West Palm Beach, Florida)	2017	2017
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <ul style="list-style-type: none"> <li>As-Built</li> <li>Construction Layout</li> </ul>		<input checked="" type="checkbox"/> Check if project performed with current firm
d.	<b>Royal Palm Beach Library Sanitary Sewer Rehab</b> ( Royal Palm Beach, Florida)	2017	2017
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <ul style="list-style-type: none"> <li>Topographic Survey</li> </ul>		<input checked="" type="checkbox"/> Check if project performed with current firm
e.	<b>Acme Road Driveway Connection</b> (Wellington, Florida)	2018	2018
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <ul style="list-style-type: none"> <li>Topographic Survey</li> </ul>		<input checked="" type="checkbox"/> Check if project performed with current firm
f.	<b>PBCWUD Watermain Extension, Pine Ridge Lane</b> ( West Palm Beach, Florida)	2018	2018
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <ul style="list-style-type: none"> <li>Topographic Survey</li> </ul>		<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.)

<b>12. NAME</b> <b>C. Andre Rayman, P.S.M.</b>	<b>13. ROLE IN THIS CONTRACT</b> <b>Quality Control</b>	<b>14. YEARS EXPERIENCE</b>	
		<b>a. TOTAL</b> <b>31</b>	<b>b. WITH CURRENT FIRM</b> <b>31</b>

<b>15. FIRM NAME AND LOCATION (City and State)</b> <b>Engenuity Group, Inc. (West Palm Beach, Florida)</b>
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<b>16. EDUCATION (DEGREE AND SPECIALIZATION)</b> <b>B.S., Surveying &amp; Mapping</b>	<b>17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)</b> <b>Florida / Surveying and Mapping</b>
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**18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)**

**Organizations**

Florida Surveying and Mapping Society  
 Florida Association of Cadastral Mappers  
 American Congress on Surveying & Mapping  
 Forest Hill High School Engineering Academy Adviser  
 FES Mentor Program at Florida Atlantic University

**19. RELEVANT PROJECTS**

a.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	<b>City of Hollywood</b> (Hollywood, Florida)	2014	2015
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <ul style="list-style-type: none"> <li>• Topographic Route Survey of Johnson Street</li> </ul> <input checked="" type="checkbox"/> Check if project performed with current firm		
	<b>City of Margate</b> (Margate, Florida)	2016	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <ul style="list-style-type: none"> <li>• Topographic Route Survey of Southgate Blvd &amp; Rock Island Road</li> </ul> <input checked="" type="checkbox"/> Check if project performed with current firm		
	<b>Parkland Royale</b> (Broward County, FL)	2014	Ongoing
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <ul style="list-style-type: none"> <li>• Boundary, Topographic and Alta Survey</li> <li>• Plat Preparation</li> <li>• Sketch and Descriptions</li> </ul> <input checked="" type="checkbox"/> Check if project performed with current firm		
	<b>Broward County EOC</b> (Plantation, FL)	2018	2018
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <ul style="list-style-type: none"> <li>• Topographic Survey</li> <li>• Boundary Survey</li> </ul> <input checked="" type="checkbox"/> Check if project performed with current firm		
	<b>Town of Palm Beach</b> (Palm Beach, FL)	2010	2011
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <ul style="list-style-type: none"> <li>• Worth Avenue Streetscape and Infrastructure Improvements</li> <li>• Topographic Survey for design of water distribution piping replacement system</li> </ul> <input checked="" type="checkbox"/> Check if project performed with current firm		
f.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	

<b>Palm Beach County Roadway Department</b> (Palm Beach County, FL)	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
<ul style="list-style-type: none"> <li>Right-of-way map preparation for West Atlantic Avenue</li> <li>Right-of-way map preparation for Belvedere Road Phase I &amp; II)</li> <li>Right-of-way map preparation for Flavor Pict Road (Turnpike to Barwick)</li> <li>Right-of-way map preparation for Folsom Road (Okeechobee Blvd. to Southern Blvd.)</li> </ul>		
g.	(2) YEAR COMPLETED	
<b>Town of Lake Clarke Shores</b> (Lake Clarke Shores, FL)	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
<ul style="list-style-type: none"> <li>Review Plats</li> <li>Topographic and Boundary Survey of Town Hall</li> <li>Cross Sections of LWDD Canal and Topographic Survey of City Park adjacent to Forest Hill Blvd</li> <li>Develop Property Ownership GIS</li> <li>Sanitary Sewer Expansion Project</li> <li>Stake and Grade</li> </ul>		
h.	(2) YEAR COMPLETED	
<b>Town of Ocean Ridge</b> (Ocean Ridge, FL)	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
<ul style="list-style-type: none"> <li>Various Base Map Projects for Stormwater Design including Tropical Drive, Coconut Lane, A-1-A corridor</li> <li>Review of Plats</li> <li>Topographic and Boundary Survey of 6301 N Ocean Blvd</li> </ul>		
i.	(2) YEAR COMPLETED	
<b>City of West Palm Beach</b> (West Palm Beach, FL)	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
<ul style="list-style-type: none"> <li>Topographic Survey for Palm Beach Lake Boulevard</li> <li>Topographic Survey for Cumberland Drive</li> <li>Topographic Survey Olive Avenue from Quadrille St to 6th St</li> <li>Boundary, Topographic and Hydrographic Survey of Flagler Drive</li> <li>Boundary and Topographic Survey for design at 5 Well Sites</li> <li>Bathymetric Survey for Environmental Analyses for Waterfront Facilities</li> <li>Specific Purpose Survey of Spruce Avenue from 25th Street to 40th Street</li> <li>Specific Purpose Survey of Old City Hall</li> <li>Boundary Survey of WPB Historic Chemical Building</li> </ul>		
j.	(2) YEAR COMPLETED	
<b>City of Riviera Beach</b> (Riviera Beach, FL)	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		

- Right-of-way maps and parcel maps for Riviera Beach, 13th Street, 11th Street and Avenue "C". (Port of Palm Beach)
- Boundary survey of City Hall
- Sketch and descriptions for access easements for Utility Plant
- Topographic Survey of West 36th Street
- Boundary Survey at 1101 W. 13th Street
- Topographic Survey of 13th Street (Dixie Highway to Avenue P)
- Topographic Survey of Blue Heron Blvd/Avenue P intersection
- Topographic Survey of proposed Public Works complex
- Riviera Beach Storm water data collection for GIS
- Topographic Survey of Avenue T and RC-5 Canal
- Topographic Survey of Avenue S and 23rd Street
- Topographic Survey of utility plant for design
- Inner City Golf Youth Museum

	(2) YEAR COMPLETED	
<b>Village of Wellington</b> (Wellington, FL)	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
k.	<ul style="list-style-type: none"> <li>• Topographic Survey for Big Blue with Sketch and Descriptions of encroachments</li> <li>• Topographic Survey for Rustic Ranches</li> <li>• Topographic Survey for 50th Street South</li> <li>• Underground Utility Locating and Topographic Survey for Watermain Replacement Project</li> <li>• Topographic Survey of Greenbriar Blvd</li> <li>• Topographic and Boundary Survey of Rushy Marsh Farm</li> </ul>	
	(2) YEAR COMPLETED	
<b>City of Lake Worth</b> (Lake Worth, FL)	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
l.	<ul style="list-style-type: none"> <li>• GIS Data Collection</li> <li>• Topographic Survey of various streets (46,000 linear feet)</li> <li>• Topographic Survey of all Storm Structures (1,180 structures)</li> </ul>	
	(2) YEAR COMPLETED	
<b>Village of Palm Springs</b> (Palm Springs, Florida)	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
m.	<ul style="list-style-type: none"> <li>• Topographic Mediterranean Lift Station</li> </ul>	
	(2) YEAR COMPLETED	
<b>City of Greenacres</b> (Greenacres, Florida)	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
n.	<ul style="list-style-type: none"> <li>• Review of Plats</li> <li>• Miscellaneous Sketch and Descriptions</li> <li>• Topographic Survey of Alleyway project</li> <li>• Topographic Survey of "A" and "B" canals</li> <li>• Original Section Drainage Improvements</li> <li>• Clearing and Reconstruction of the Alleyways between Perry Avenue and Fleming Avenue</li> <li>• Dillman Road Topographic Survey for sidewalk</li> </ul>	
	(2) YEAR COMPLETED	
<b>City of Palm Beach Gardens</b> (Palm Beach Gardens, Florida)	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
o.	<ul style="list-style-type: none"> <li>• Campus Drive Topographic and Tree Survey</li> <li>• Topographic Survey of Shady Lakes Drive</li> <li>• Topographic and Boundary Survey of PBG Golf Course Clubhouse</li> </ul>	

**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

1

21. TITLE AND LOCATION (City and State)

**Johnson Street Route Survey**  
 (Hollywood, Florida)

22. YEAR COMPLETED

PROFESSIONAL SERVICES

2014

CONSTRUCTION (If applicable)

2015

**23. PROJECT OWNER'S INFORMATION**

a. PROJECT OWNER

City of Hollywood

b. POINT OF CONTACT NAME

Lene't Adams

c. POINT OF CONTACT TELEPHONE NUMBER

(305)324-7671

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

Engenuity Group, Inc. performed the following survey tasks for this project:

- Locate and identify all applicable existing above-ground and underground utilities and collect elevations at 100 foot intervals;
- Provide rim and invert elevations, and pipe size and type on all visible gravity sewer structures and/or outfalls (sanitary and storm drainage);
- Provide location of all existing buildings, concrete pads, valve boxes, water/electrical meter boxes, electrical pull boxes, telephone/cable risers, fences, hydrants, above-ground utilities, wood/concrete utility poles, overhead utility lines, culverts, guardrails, pavement limits, headwalls, end-walls, manholes, vaults, driveways, right-of-way limits, landscaping, traffic signage and any other signage;
- Locate vegetation and individual trees;
- Provide location of the markings that indicate underground utilities.



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

	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	Engenuity Group, Inc.	West Palm Beach, Florida	Surveying

<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;">2</p>				
<b>21. TITLE AND LOCATION (City and State)</b> Southgate Blvd & Rock Island Road Margate, Florida		<b>22. YEAR COMPLETED</b> <table border="1"> <tr> <td>PROFESSIONAL SERVICES</td> <td>CONSTRUCTION (If applicable)</td> </tr> <tr> <td>2017</td> <td></td> </tr> </table>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	2017	
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)					
2017						
<b>23. PROJECT OWNER'S INFORMATION</b>						
<b>a. PROJECT OWNER</b> City of Margate	<b>b. POINT OF CONTACT NAME</b> Paula Fonseca, P.E.	<b>c. POINT OF CONTACT TELEPHONE NUMBER</b> (561) 746-6900				
<b>24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)</b>						

Engenuity Group, Inc. was contracted by Chen Moore & Associates to complete a topographic survey along Southgate Boulevard and Rock Island Road for the City of Margate. The topographic survey is going to be used to complete design drawings for the construction plans of a new force main. The route of the force main will start at the lift station located at the intersection of S.W. 64th Avenue and Southgate Boulevard and run Westerly along Southgate Boulevard then Northerly along Rock Island Road and through the City of Margate Public Works Department yard to the lift station located on the South side of West Atlantic Boulevard.



Our survey included setting permanent benchmarks along the route, with cross sections within the right-of-way every 100 feet. All storm, sanitary and water structures and the corresponding invert data were located. All trees within the route were located, identified and measured for size. Additionally, cross sections of the Pompano Canal C-14 on both sides of Rock Island Road were completed.



We began the topographic survey in November 2016 and completed and delivered to the client in January 2017. All tasks were completed within budget and ahead of schedule

<b>25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT</b>		
<b>a. (1) FIRM NAME</b> Engenuity Group, Inc.	<b>(2) FIRM LOCATION (City and State)</b> West Palm Beach, Florida	<b>(3) ROLE</b> Surveying, Civil Engineering

**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

3

21. TITLE AND LOCATION (City and State)

**Fern Street Streetscape**  
 (West Palm Beach, Florida)

22. YEAR COMPLETED

PROFESSIONAL SERVICES

2015

CONSTRUCTION (If applicable)

2017

**23. PROJECT OWNER'S INFORMATION**

a. PROJECT OWNER

City of West Palm Beach

b. POINT OF CONTACT NAME

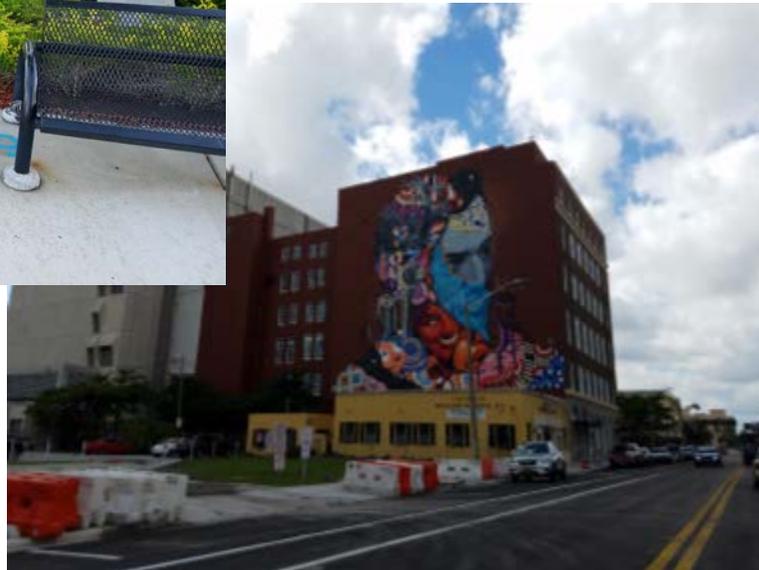
Morey Wright

c. POINT OF CONTACT TELEPHONE NUMBER

(954) 306-3687

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

In conjunction with the federally funded City project of Fern Street beautification Engenuity Group provided construction surveying services to the Contractor on an hourly basis. The project included construction of curbing, curb ramps, specialty pavement, landscaping, pedestrian level lighting, bio-swales, trash receptacles and bike lane acrylic coating and striping along Fern Street from South Tamarind Avenue to Flagler Drive.



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

(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a. Engenuity Group, Inc.	West Palm Beach, Florida	Land Surveying Services

<p><b>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b>          (Present as many projects as requested by the agency, or 10 projects, if not specified.          Complete one Section F for each project.)</p>	<p><b>20. EXAMPLE PROJECT KEY NUMBER</b>  4</p>
--	---

<p><b>21. TITLE AND LOCATION (City and State)</b>  <b>Crestwood Blvd. N. Streetscape Phase II</b>          Royal Palm Beach, Florida</p>	<p><b>22. YEAR COMPLETED</b></p> <table border="1"> <tr> <td data-bbox="951 268 1214 342"> <p>PROFESSIONAL SERVICES 2016</p> </td> <td data-bbox="1214 268 1503 342"> <p>CONSTRUCTION (If applicable) 2016</p> </td> </tr> </table>		<p>PROFESSIONAL SERVICES 2016</p>	<p>CONSTRUCTION (If applicable) 2016</p>
<p>PROFESSIONAL SERVICES 2016</p>	<p>CONSTRUCTION (If applicable) 2016</p>			

<p><b>23. PROJECT OWNER'S INFORMATION</b></p>		
<p><b>a. PROJECT OWNER</b>          Village of Royal Palm Beach,          FL</p>	<p><b>b. POINT OF CONTACT NAME</b>          Brian Coblentz</p>	<p><b>c. POINT OF CONTACT TELEPHONE NUMBER</b>          (561) 227-5323</p>

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

Engenuity Group, Inc. was contracted by Community Asphalt for the construction of Crestwood Boulevard North Streetscape Phase 2 Project for the Village of Royal Palm Beach. We provided professional surveying services for Crestwood Boulevard North from Saratoga Boulevard to Royal Palm Beach Boulevard. These services included:

- Establishing horizontal and vertical control
- Staking and graded Curbing
- Staking and Graded Storm Structures
- Field Locating all Storm, Irrigation, Signs and Electrical Pull Boxes
- Preparing Record Drawings



We began construction staking in January 2016 and completed in November 2016. All record drawings were submitted, reviewed and accepted by the Village of Royal Palm Beach within budget and ahead of schedule.



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

<p><b>a. (1) FIRM NAME</b>          Engenuity Group, Inc.</p>	<p><b>(2) FIRM LOCATION (City and State)</b>          West Palm Beach, Florida</p>	<p><b>(3) ROLE</b>          Land Surveying Services</p>
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<p><b>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b>          (Present as many projects as requested by the agency, or 10 projects, if not specified.          Complete one Section F for each project.)</p>	<p>20. EXAMPLE PROJECT KEY NUMBER <b>5</b></p>
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<p>21. TITLE AND LOCATION (City and State)  <b>Grandview Heights Streetscape</b>          (West Palm Beach, Florida)</p>	<p>22. YEAR COMPLETED</p> <table border="1"> <tr> <td data-bbox="951 268 1214 338">PROFESSIONAL SERVICES 2017</td> <td data-bbox="1214 268 1494 338">CONSTRUCTION (If applicable) 2017</td> </tr> </table>		PROFESSIONAL SERVICES 2017	CONSTRUCTION (If applicable) 2017
PROFESSIONAL SERVICES 2017	CONSTRUCTION (If applicable) 2017			

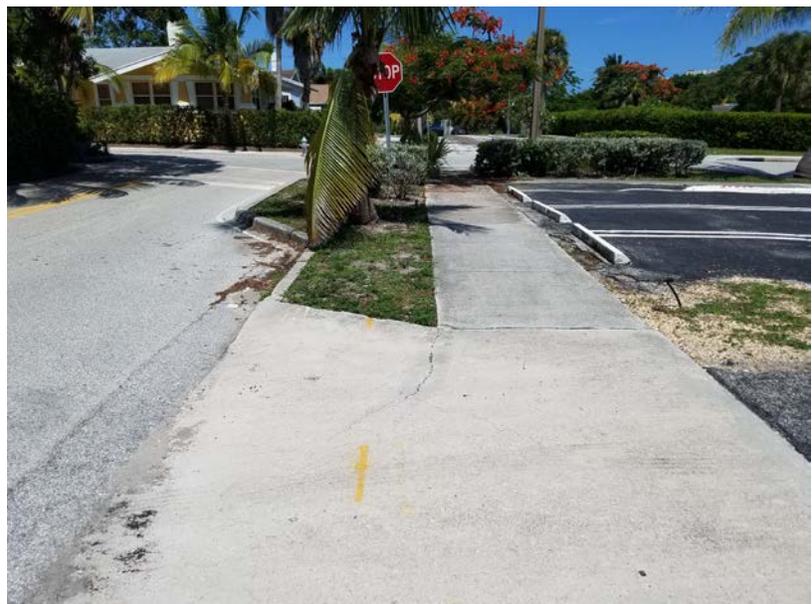
**23. PROJECT OWNER'S INFORMATION**

<p>a. PROJECT OWNER City of West Palm Beach</p>	<p>b. POINT OF CONTACT NAME Dana Gillette, P.S.M, P.E.</p>	<p>c. POINT OF CONTACT TELEPHONE NUMBER (561) 753-9723</p>
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**24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)**

Our survey department provided a complete topographic survey to Erdman Anthony, the civil designer, that included these items:

- Calculate and field verify Right-of-Way Lines
- Establish and monument the Base Lines at beginning, end and intersection of baselines and provide Northing and Easting, and also show baseline stationing on drawing
- Locate existing Pavement, Curb, Sidewalk (with elevations)
- Locate existing Driveways up to garage/house (with elevations)
- Locate existing Drainage (inlets and manholes with rims/inverts and pipe size/material/direction)
- Locate existing Features (light poles, utility poles, OH lines, trees, mailboxes, structures, and hedges)
- Label adjoining owners, parcel control numbers, and street addresses
- All Elevations shown in NGVD 1929



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

<p>a. (1) FIRM NAME Engenuity Group, Inc.</p>	<p>(2) FIRM LOCATION (City and State) West Palm Beach, Florida</p>	<p>(3) ROLE Land Surveying Services</p>
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<p><b>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b>          (Present as many projects as requested by the agency, or 10 projects, if not specified.          Complete one Section F for each project.)</p>	<p><b>20. EXAMPLE PROJECT KEY NUMBER</b>  6</p>
--	---

<p><b>21. TITLE AND LOCATION (City and State)</b>  <b>Lake Worth Neighborhood Roads Program – District 4</b>          Lake Worth, Florida</p>	<p><b>22. YEAR COMPLETED</b></p> <table border="1"> <tr> <td data-bbox="951 268 1214 382"> <p><b>PROFESSIONAL SERVICES</b> Ongoing</p> </td> <td data-bbox="1214 268 1503 382"> <p><b>CONSTRUCTION (If applicable)</b> Ongoing</p> </td> </tr> </table>		<p><b>PROFESSIONAL SERVICES</b> Ongoing</p>	<p><b>CONSTRUCTION (If applicable)</b> Ongoing</p>
<p><b>PROFESSIONAL SERVICES</b> Ongoing</p>	<p><b>CONSTRUCTION (If applicable)</b> Ongoing</p>			

**23. PROJECT OWNER'S INFORMATION**

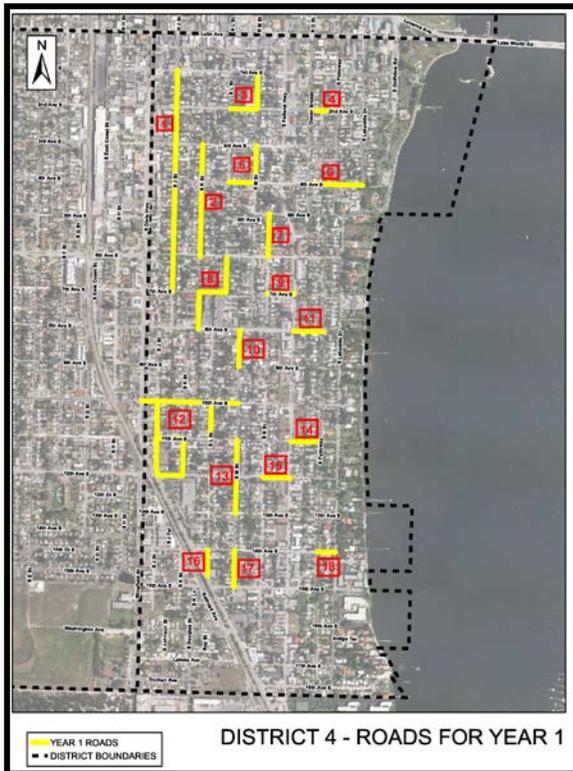
<p><b>a. PROJECT OWNER</b> City of Lake Worth</p>	<p><b>b. POINT OF CONTACT NAME</b> Brent Whitfield, P.E.</p>	<p><b>c. POINT OF CONTACT TELEPHONE NUMBER</b> (561) 746-6900</p>
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**24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)**

Engenuity Group is working with the roadway design engineer, Chen Moore & Associates, to provide Topographic Surveys of all District 4 roads as part of the Lake Worth Neighborhood Streets Program that is the result of the recently passed bond referendum by the residents of the City. The majority of the City's roadways were previously in disrepair and are now being completely renovated under this program.

District 4 spans from Lake Avenue to the North to the southern limits of the City and from Dixie Avenue in the west out to the Intracoastal Waterway.

Year 1 roads include South J Street, South K Street, South M Street, 7th Ave S., and 10th Ave S. among many others for a total of **20,997 linear feet** of roadway.



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

<p><b>a. (1) FIRM NAME</b> Engenuity Group, Inc.</p>	<p><b>(2) FIRM LOCATION (City and State)</b> West Palm Beach, Florida</p>	<p><b>(3) ROLE</b> Land Surveying Services</p>
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**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

7

21. TITLE AND LOCATION (City and State)

**Cumberland Drive and Saratoga Roadway Improvements**

West Palm Beach, Florida

22. YEAR COMPLETED

PROFESSIONAL SERVICES

2016

CONSTRUCTION (If applicable)

2017

**23. PROJECT OWNER'S INFORMATION**

a. PROJECT OWNER

City of West Palm Beach

b. POINT OF CONTACT NAME

R. Trent Ebersole, P.E.

c. POINT OF CONTACT TELEPHONE NUMBER

(561) 840-8650

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

Engenuity Group, Inc. was contracted by McMahon Associates, Inc. to complete a topographic survey of Cumberland Drive. The topographic survey will be used to complete design drawings for the **City of West Palm Beach**. Features of the topographic survey included:

- Setting permanent benchmarks along Cumberland Drive
- Cross sections at 100' intervals along the length of Cumberland Drive and Saratoga Road. Spot elevations at all returns, median noses, sidewalk intersections and along the right of way corner clips at the intersections.
- Plat and right-of-way research along the length of the project to include easements as shown on plats.
- Topographic features included edge of pavement, curb, sidewalk, median, driveways, water valves, backflows, meter boxes, manholes, inlets including invert data, fire hydrants, above grade communication systems, ground mounted power transformers, and tree 6" in size and larger
- We began and completed the topographic survey in February 2016. The topographic survey was completed within budget and ahead of schedule.



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

(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a. Engenuity Group, Inc.	West Palm Beach, Florida	Land Surveying Services

**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

8

21. TITLE AND LOCATION (City and State)

**Beach Road Widening**  
 Jupiter Island, Florida

22. YEAR COMPLETED

PROFESSIONAL SERVICES

Ongoing

CONSTRUCTION (If applicable)

Ongoing

**23. PROJECT OWNER'S INFORMATION**

a. PROJECT OWNER

Town of Jupiter Island

b. POINT OF CONTACT NAME

Stuart Trent, P.E.

c. POINT OF CONTACT TELEPHONE NUMBER

(772) 545-0171

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

Engenuity Group was contracted by the Town of Jupiter Island to provide professional services in connection with the Beach Road project drainage and widening. Our survey included:

- Locating sufficient horizontal control points to register the previously created map to the vertical data
- Quality controlling the horizontal features and made updates
- Collecting elevations at 50' stations and high/low points
- Providing topography in the wooded conservation areas for future drainage design

This survey served as the starting point for the preliminary drainage design for beach Road, north of Bridge Road. The design would ultimately widen the road to 20' and address drainage issues.



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

(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a. Engenuity Group, Inc.	West Palm Beach, Florida	Land Surveying Services

**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

9

21. TITLE AND LOCATION (City and State)

**El Monte Neighborhood**  
 West Palm Beach, Florida

22. YEAR COMPLETED

PROFESSIONAL SERVICES

2015

CONSTRUCTION (If applicable)

**23. PROJECT OWNER'S INFORMATION**

a. PROJECT OWNER

City of West Palm Beach

b. POINT OF CONTACT NAME

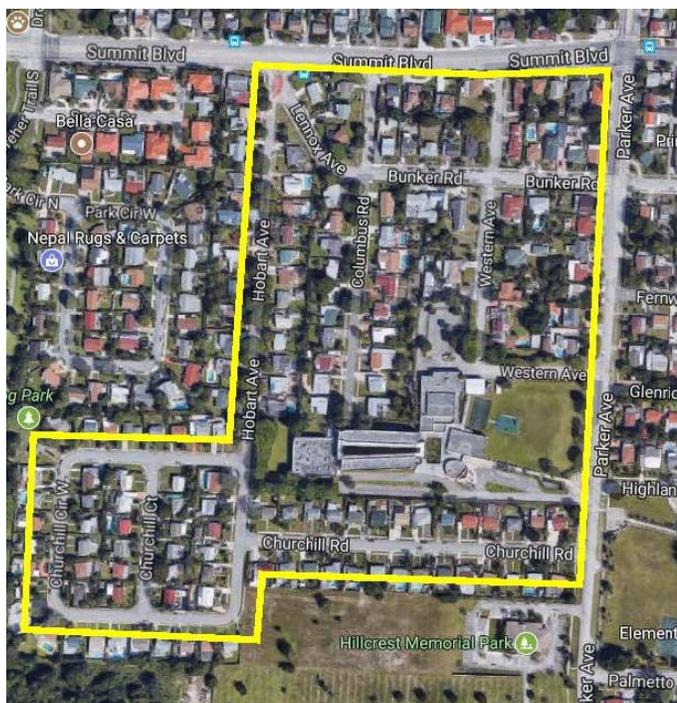
Lina Camacho, P.E.

c. POINT OF CONTACT TELEPHONE NUMBER

(561) 494-1129

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

Engenuity Group was contracted by the City of West Palm Beach to prepare a Topographic Survey of the El Monte neighborhood's right-of-ways. The Topographic Survey included nine (9) different streets, totaling 10,290 linear feet. Engenuity also located and gathered data for edge of pavement, driveways, sidewalks, manholes and inlets with rim and invert elevations, trees, signs, and light poles and gathered spot elevations.



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

(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a. Engenuity Group, Inc.	West Palm Beach, Florida	Land Surveying Services

**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

10

21. TITLE AND LOCATION (City and State)

**Lighthouse Drive Topographic Survey**  
 (North Palm Beach, Florida)

22. YEAR COMPLETED

PROFESSIONAL SERVICES

2018

CONSTRUCTION (If applicable)

**23. PROJECT OWNER'S INFORMATION**

a. PROJECT OWNER

Village of North Palm Beach

b. POINT OF CONTACT NAME

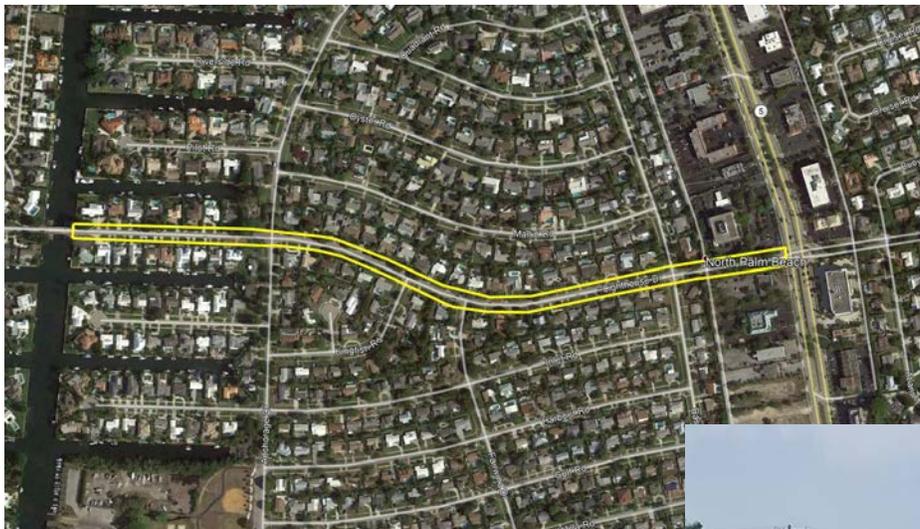
Steven J. Hallock.

c. POINT OF CONTACT TELEPHONE NUMBER

(561) 691-3440

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

Engenuity Group worked with the Village of North Palm Beach to provide Professional Surveying Services to assist the Village in creating a Lighthouse Drive Concept Study. Engenuity Group was responsible for the topographic survey, which included the location of all features and utilities, from the Bridge to US-1.



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

	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	Engenuity Group, Inc.	West Palm Beach, Florida	Land Surveying Services

**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 SECTION F (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
Jennifer Malin, P.S.M.	Project Manager	X	X	X	X	X	X	X	X	X	X
C. Andre Rayman, P.S.M.	Quality Control	X	X	X	X	X	X	X	X	X	X
Joseph Williams	Project Surveyor	X	X	X	X	X	X	X	X	X	X
Travis Morrell	Crew Coordinator						X		X		X
Derek Saffold	Crew Chief	X	X	X	X	X	X	X	X	X	X
James Hager	Crew Chief	X	X	X	X	X	X	X	X	X	X
David Kupsick	AutoCAD Drafting						X		X		X

**29. EXAMPLE PROJECTS KEY**

NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)	NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)
1	Johnson Street Route Survey	6	Lake Worth Neighborhood Roads Program – District 4
2	Southgate Blvd & Rock Island Road Survey	7	Cumberland Dr. & Saratoga Roadway Improvements
3	Fern Street Streetscape Survey	8	Town of Jupiter Island – Beach Road Widening
4	Crestwood Blvd N. Streetscape Phase II	9	City of West Palm Beach – El Monte Neighborhood
5	Grandview Heights Streetscape	10	Village of North Palm Beach Lighthouse Drive Topographic Survey

**H. ADDITIONAL INFORMATION**

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

**Engenuity Group, Inc.** is a multi-disciplinary consulting firm. Having specialized initially in projects with difficult permitting and land use problems, Engenuity Group has grown in size and broadened its range of services. Engenuity Group has evolved into a firm that primarily serves the Government and Institutional sector. Our clients include cities, special districts, school boards, hospitals and industry.

Engenuity Group over the past 33 years has grown to the point where it now offers a full range of services in civil engineering, surveying, and GIS mapping.

Engenuity Group, Inc. brings expertise to projects which require civil and environmental engineering and permitting, water management studies, wetland mitigation, habitat restoration and jurisdictional determinations. Engenuity Group also has experience in helping our clients obtain funding for projects through grant application preparation and follow-up. The firm's use of state-of-the-art electronics in Survey Services and computer-aided design and drafting brings both accuracy and rapid turn-around time to clients who need boundary and topographic surveys, plats and coordinate geometry, coastal surveying and right-of-way maps. Engenuity Group also provides Geographic Information System (GIS) Consulting and Design Services. Engenuity Group is dedicated to providing competent professional services to its clients, whether they are in the private or public sector. We measure our success by our various satisfied clients – clients who appreciate strict control of time and budget as well as contract and legal compliance.

**OVERVIEW OF SERVICES**

**ENGINEERING**

- Master Drainage Systems
- Roadway Design
- Water Distribution and Sewage Collection Systems
- Paving, Grading, and Drainage
- Marina Design and Permitting
- Seawalls and Docks
- Hydrographic Studies
- Park designs
- Plans, Permits, Inspections
- Construction Observation Services, Certification

**SURVEYING**

- Boundary and Topographic Survey
- Route Surveying
- Plat and Coordinate Geometry
- Mean & Ordinary Highway Lines
- Bathymetric and Hydrographic Surveys
- Coastal Surveying
- Right-of-Way Maps
- GIS Development Services

**ENVIRONMENTAL**

- Ecosystem Evaluation
- Environmental Permitting
- Estuarine Studies
- Habitat Restoration
- Jurisdictional Determination
- Wetland Mitigation

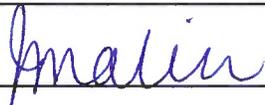
**OTHER SERVICES**

- Legislative and Regulatory Assistance
- Public Outreach
- Grant Assistance
- Construction Administration
- NPDES
- Emergency Services

**I. AUTHORIZED REPRESENTATIVE**

The foregoing is a statement of facts.

31. SIGNATURE



32. DATE

August 26, 2019

33. NAME AND TITLE

Jennifer Malin, P.S.M., Vice President

**ARCHITECT-ENGINEER QUALIFICATIONS**

1. SOLICITATION NUMBER (If any)

**DCRA 19-026**

**PART II – GENERAL QUALIFICATIONS**

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

2a. FIRM (OR BRANCH OFFICE) NAME Engenuity Group, Inc.			3. YEAR ESTABLISHED 1978	4. DUNS NUMBER 099072266
2b. STREET 300 Lock Road, Suite 302			5. OWNERSHIP a. TYPE Corporation b. SMALL BUSINESS STATUS Certified SBE	
2c. CITY Deerfield Beach	2d. STATE FL	2e. ZIP CODE 33442		
6a. POINT OF CONTACT NAME AND TITLE Jennifer Malin, P.S.M., Vice President			7. NAME OF FIRM (If block 2a is a branch office)	
6b. TELEPHONE NUMBER (561) 655-1151	6c. E-MAIL ADDRESS jmalin@engenuitygroup.com			
8a. FORMER FIRM NAME(S) (If any) SFRN, Inc. Shalloway, Inc. Shalloway, Foy, Schofield, Rayman & Newell, Inc. Shalloway, Foy, Rayman & Newell, Inc.			8b. YR. ESTABLISHED 1996 1978 1986 1989	8c. DUNS NUMBER 099072266

**9. EMPLOYEES BY DISCIPLINE**

**10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS**

a. Function Code	b. Discipline	c. No. of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below)
		(1) FIRM	(2) BRANCH			
02	Administrators	5		T04	City of Palm Beach Gardens	2
12	Civil Engineers	9		C10	Oxygen Development	2
38	Surveyors	15		C11	Palm Beach Gardens EEOC	1
29	GIS	1		C18	Village of North Palm Beach	1
				G04	Town Of Ocean Ridge	1
				H07	PBIA Airport	3
				H09	St Mary's Hospital	1
				H05	Amy's Place	1
				I01	Pero Farms	1
				L02	Village of Wellington	3
				O01	Department of Homeland Security Office Building	1
				C02	South Florida National Cemetery	2
				C16	Lake Ida Drainage Improvements	1
				S10	Village of Wellington	2
				S13	Ocean Ridge South Phase	2
				I06	Rushy Marsh Farms	1
	Other Employees			R04	Citrus Grove Community Park	1
	<b>Total</b>	<b>30</b>	<b>0</b>	H11	Bay Colony	1

**11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS**

*(Insert revenue index number shown at right)*

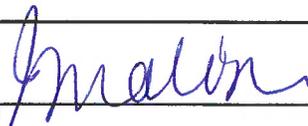
a. Federal Work	1
b. Non-Federal Work	6
c. Total Work	6

**PROFESSIONAL SERVICES REVENUE INDEX NUMBER**

- |   |   |
|---|---|
| 1. Less than \$100,000                  | 6. \$2 million to less than \$5 million   |
| 2. \$100,000 to less than \$250,000     | 7. \$5 million to less than \$10 million  |
| 3. \$250,000 to less than \$500,000     | 8. \$10 million to less than \$25 million |
| 4. \$500,000 to less than \$1 million   | 9. \$25 million to less than \$50 million |
| 5. \$1 million to less than \$2 million | 10. \$50 million or greater               |

**12. AUTHORIZED REPRESENTATIVE**

The foregoing is a statement of facts.

a. SIGNATURE 	b. DATE August 26, 2019
c. NAME AND TITLE Jennifer Malin, P.S.M., Vice President	



PROFILE OF CONSULTANT

FLORIDA'S

Hollywood

COMMUNITY REDEVELOPMENT AGENCY





## PROFILE OF CONSULTANT



HOLLYWOOD FLORIDA  
COMMUNITY REDEVELOPMENT AGENCY

**Engenuity Group, Inc.** was founded in 1978 to provide professional civil engineering services to the South Florida community. Professional surveying services were added in 1984 and GIS Services in 1998. Aerial Drone photography was added in 2017.

We are a local Florida firm with offices in Palm Beach and Broward Counties. All work for the Hollywood CRA is to be performed through our office located at 300 Lock Road, Suite 302, Deerfield Beach, FL 33442

**Engenuity Group** offers a full range of services in Surveying and Mapping. For over **40 years** we have been providing professional service to our clients and are dedicated to the development and economic prosperity of the local community, whether they are in the private sector or public sector, whether they are urban land developers or agricultural enterprises.

The firm consists of five principals, C. Andre Rayman, P.S.M., Keith B. Jackson, P.E., Lisa A. Tropepe, P.E., Adam C. Swaney, P.E. and Jennifer Malin, P.S.M. with **approximately 30 employees**. Our 4 full time professional surveyors have a combined experience of over 130 years of licensed land surveying in South Florida, the Bahamas and South America. **Engenuity Group's** project

managers are innovative, resourceful and creative and possess a sense of urgency and ownership that they bring to each and every project. Our use of state of the art electronics measuring systems in surveying and computer aided design and drafting assures our clients of accurate surveying work and rapid turnaround times, in an efficient manner.



Our areas of expertise include preparing boundary, topographic, tree and hydrographic surveys. We are also experts in construction staking, sketch and legal descriptions, plat review and preparation, as-built /record surveys, mean high water line surveys, special purpose surveys and quantity surveys. In addition we use aerial drone to produce ortho rectified aerials and combine with traditional surveying to produce maps. We also use a Hydro-drone to gather elevations within water bodies. This is more efficient with an added safety factor than the traditional method of measuring soundings.





## PROFILE OF CONSULTANT



**Engenuity Group** is a designated small business SBE that prides itself on personal client contact.

Our employees are dedicated and committed to providing the best service as it related Land surveying and GIS. Many of our clients are public agencies who have been with us for many years. Our unique customer service has resulted in numerous repeat clients.



Since many of our clients are public agencies, we are familiar with the interaction

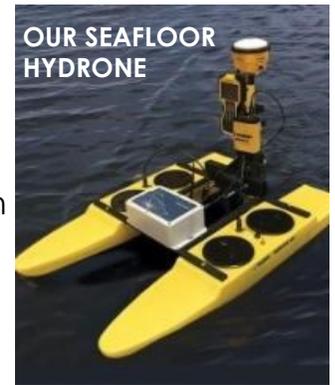
required to communicate information. We understand that all direction comes from staff. All proposals are in writing. Telephone calls are documented with memos and meetings are documented with minutes. Project milestones and completion dates are established before our services begin and the dates are met.

### PAST PERFORMANCE RECORD

**Engenuity Group** prides itself on achieving the goals set by time and budget requirements. To meet time requirements, we establish a due date in writing, establish

intermediate milestone dates, and we meet these dates. In some instances when field work is delayed due to weather, we are able to make up for the lost time by working longer days or on weekends

To meet budget requirements, we establish at the proposal stage the hours assigned for each unique task and assign the agreed upon rates. We use Deltek accounting and billing software to facilitate monitoring the completed work with relationship to the remaining budget.



Our performance record speaks for itself, as our clients will attest. We encourage you to contact our references or any one of other clients to see what they have to say about our performance record.

**Engenuity Group, Inc.** has performed surveying services on many high profile surveying. We recently produced a Topographic Survey of the entire Broward County Emergency Operations Center in Plantation, the entire El Monte and Roosevelt Estates Neighborhoods in West Palm Beach and several miles of neighborhood streets in Riviera Beach which is scheduled for upcoming design improvements including streetscape





## PROFILE OF CONSULTANT



beautification

Engenuity Group, Inc. currently has continuing contracts for performing Professional Land Surveying Services on Continuing Contract for the following entities: City of Sunrise, City of Pompano Beach, School Board of Broward County, Palm Beach County Solid Waste Authority, City of Boynton Beach, City of Greenacres, Town of Lake Clarke Shores, City of Lake Worth, Town of Manalapan, Village of North Palm Beach, Town of Ocean Ridge, City of Palm Beach Gardens, Village of Palm Springs, City of Riviera Beach, Village of Wellington, City of West Palm Beach, City of Westlake, City of Delray Beach, and the Town of Lake Park. We have also performed services for various projects at some time or another for other municipalities in Palm Beach County as either a prime or a sub-consultant as well as the County itself.



We have provided surveying services as a sub-consultant on Broward County projects as well including a recently completed survey for the Broward County Emergency Operations Center in Plantation, FL., and the topographic survey for Johnson Street ( aa – bb) as a sub to Biscayne Engineering, and

the Children's family services in Plantation. In the instances where the entity does not have its own surveying department we act as the town surveyor, while in others that are larger we share the workload with other consultants. In addition to public clients we also assist several large land development projects. Some of our ongoing work include the "Village Royale" Project in Royal Palm Beach, FL, (220 acres) the "Cove Royale" Project in Martin County (xx acres), and the "Parkland Royale" Project located in Broward County. (xx acres). We were also the surveyor of record for the recent Norton Museum of Art 100 million dollar expansion



### LITIGATION:

**Engenuity Group** is not involved in any situations in which the professional conduct of the Firm or any of its professionals is being investigated judicially or by an administrative agency or qualification board. There are also no prior adverse decisions or settlements relating to a violation of ethical standards by our Firm or one of our professionals.

### PROJECT TEAM ORGANIZATION





## PROFILE OF CONSULTANT



Our organizational chart is part of our SF 330 package, following is a detailed project involvement for each team member.

Ms. Malin is a thorough professional in all aspects of land surveying and serves as a direct liaison to the CRA's projects, in the capacity detailed in our *Approach to Scope*.



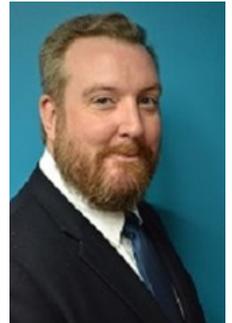
Jennifer Malin, P.S.M.  
**Project Manager**



Mr. Williams will perform initial set up of the CRA's projects including recorded plats, horizontal control, vertical control, as-built drawings and existing Hollywood archived data. He will also be in charge of all drone mapping and aerial photography/photogrammetry

Joseph Williams  
**Project Surveyor**

Mr. Morrell will manage the survey crews' output and quality control the data gathered by the survey field crews.



Travis Morrell  
**Crew Coordinator**



Mr. Kupsick will convert the data gathered for the CRA's projects into AutoCAD digital files and final hard copy drawings.

David Kupsick  
**AutoCAD Designer**

Mr. Saffold will dedicate full working days to CRA projects till all necessary data is gathered. Our assigned field crews are highly experienced with all types of land surveying projects and are well versed in data collection for streetscape type projects.



Derek Saffold  
**Crew Chief**





## PROFILE OF CONSULTANT



Mr. Rayman is a 4th generation land surveyor and the president of **Engenuity Group, Inc.** He ensures that our final product conforms to the highest professional standards this organization has maintained for over four decades. He will be dedicated to the final review of our deliverable to the CRA



C. Andre Rayman, P.S.M.  
**Quality Control**



Mr. Hager will lead an additional crew for data collection if needed. He has field experience with all types of land surveys.

James Hager  
**Crew Chief**

Engenuity Group understands that the projects within this area designated by the CRA will vary in size and scope, however we have sufficient professionals and field staff to accomplish the necessary deliverables in a timely and efficient manner.

Municipal staff support should include providing us the necessary data and deadlines for our projects but may extend to any insights or guidance the CRA wishes to give.



**Project:** City of Margate, FL– Southgate Blvd. & Rock Island Road

**Contact:** Paula Fonseca, P.E., Project Manager  
Chen Moore & Associates, Inc.  
500 Australian Ave. S., Suite 530  
West Palm Beach, FL 33401  
(561) 746-6900  
pfonseca@chenmoore.com

**Project Status:** Professional Services Completed 2016

**Engenuity Group Performed the Following Services for this Project:**

Engenuity Group, Inc. was contracted by Chen Moore & Associates to complete a topographic survey along Southgate Boulevard and Rock Island Road for the City of Margate. The topographic survey is going to be used to complete design drawings for the construction plans of a new force main. The route of the force main will start at the lift station located at the intersection of S.W. 64th Avenue and Southgate Boulevard and run Westerly along Southgate Boulevard then Northerly along Rock Island Road and through the City of Margate Public Works Department yard to the lift station located on the South side of West Atlantic Boulevard.



Our survey included setting permanent benchmarks along the route, with cross sections within the right-of-way every 100 feet. All storm, sanitary and water structures and the corresponding invert data were located. All trees within the route were located, identified and measured for size. Additionally, cross sections of the Pompano Canal C-14 on both sides of Rock Island Road were completed.

We began the topographic survey in November 2016 and completed and delivered to the client in January 2017. All tasks were completed within budget and ahead of schedule.



**Project:** Spruce Avenue from 25th Street to 40th Street Roadway Improvements

**Contact:** Dana Gillette, P.E., Project Manager  
Erdman Anthony of Florida, Inc.  
5405 Okeechobee Blvd., Suite 200  
West Palm Beach, FL 33417  
(561) 753-9723  
GilletteD@erdmananthony.com

**Project Status:** Professional Services Completed February 2017

**Engenuity Group Performed the Following Services for this Project:**

Engenuity Group, Inc. was contracted by Erdman Anthony to complete a special purpose survey along Spruce Avenue from 25th Street to 40th Street for roadway design drawings for the **City of West Palm Beach**. We obtained pipe direction, size, type and invert elevations of approximately 75 drainage structures whose horizontal locations and rim/grate elevations were provided to us.

We began and completed the topographic survey in February 2017. The topographic survey was completed within budget and ahead of schedule.



**Project:** Fern Street Streetscape

**Contact:** Morey Wright  
Providian Construction Group  
2669 Forest Hill Blvd., #112  
West Palm Beach, FL 33406  
(954) 306-3687  
mwright@providianconstruction.com

**Project Status:** Professional Services Completed November 2015

**Engenuity Group Performed the Following Services for this Project:**

In conjunction with the federally founded City project of Fern Street beautification Engenuity Group provided construction surveying services to the Contractor on an hourly basis. The project included construction of curbing, curb ramps, specialty pavement, landscaping, pedestrian level lighting, bio-swales, trash receptacles and bike lane acrylic coating and striping along Fern Street from South Tamarind Avenue to Flagler Drive.



**Project:** Grandview Heights Water Main Replacement & Streetscape

**Contact:** Dana Gillette, P.S.M., P.E., LEED AP  
Principal Associate  
Erdman Anthony  
5405 Okeechobee Blvd, Suite 200  
West Palm Beach, FL 33417  
gilleted@erdmananthony.com

**Project Status:** Professional Services Completed in 2017

**Engenuity Group Performed the Following Services for this Project:**

Our survey department provided a complete topographic survey to Erdman Anthony, the civil designer, that included these items:

- Calculate and field verify Right-of-Way Lines
- Establish and monument the Base Lines at beginning, end and intersection of baselines and provide Northing and Easting, and also show baseline stationing on drawing
- Locate existing Pavement, Curb, Sidewalk (with elevations)
- Locate existing Driveways up to garage/house (with elevations)
- Locate existing Drainage (inlets and manholes with rims/inverts and pipe size/material/direction)
- Locate existing Features (light poles, utility poles, OH lines, trees, mailboxes, structures, and hedges)
- Label adjoining owners, parcel control numbers, and street addresses
- All Elevations shown in NGVD 1929



**Project:** Crestwood Blvd. N. Streetscape Phase II Surveying Services

**Contact:** Brian Coblantz, Project Manager  
Community Asphalt Corporation  
7795 Hooper Road  
West Palm Beach, FL 33411  
(561) 227-5323  
bcoblantz@cacorp.net

**Project Status:** Professional Services Completed November 2016

**Engenuity Group Performed the Following Services for this Project:**

Engenuity Group, Inc. was contracted by Community Asphalt for the construction of Crestwood Boulevard North Streetscape Phase 2 Project for the Village of Royal Palm Beach. We provided professional surveying services for Crestwood Boulevard North from Saratoga Boulevard to Royal Palm Beach Boulevard. These services included:

- Establishing horizontal and vertical control
- Staking and graded Curbing
- Staking and Graded Storm Structures
- Field Locating all Storm, Irrigation, Signs and Electrical Pull Boxes
- Preparing Record Drawings

We began construction staking in January 2016 and completed in November 2016. All record drawings were submitted, reviewed and accepted by the Village of Royal Palm Beach within budget and ahead of schedule.



**Project:** City of Delray Beach– NE 2nd Ave./Seacrest Beautification Project

**Contact:** Howard Wight, Project Manager  
Foster Marine Contractors, Inc.  
3180 Fairlane Farms Road, Suite 1  
Wellington, FL 33414  
561) 683-0034  
howard@foster-marine.net

**Project Status:** Professional Services Completed January 2017

**Engenuity Group Performed the Following Services for this Project:**

Engenuity Group, Inc. was contracted by Foster Marine Contractors, Inc. for the construction of NE 2nd Avenue Seacrest Beautification Project for the City of Delray Beach. We provided professional surveying services for NE 2nd Avenue from Lake Ida Road to George Bush Blvd. These services included:

- Established horizontal and vertical control
- Staked and graded for Curbing
- Stake and graded for Landscape Islands
- Stake and graded for Sidewalk
- Provided Layout for Light poles
- Prepared Record Drawings

We began construction staking in May 2016 and final construction with all asbuilts submitted and accepted by the City of Delray Beach in January 2017. All tasks were completed within budget and ahead of schedule.



**Project:** Olive Avenue from Quadrille St. to 6th St. Roadway Improvements

**Contact:** Dana Gillette, P.E., Project Manager  
Erdman Anthony of Florida, Inc.  
5405 Okeechobee Blvd., Suite 200  
West Palm Beach, FL 33417  
(561) 753-9723  
GilletteD@erdmananthony.com

**Project Status:** Professional Services Completed January 2017

**Engenuity Group Performed the Following Services for this Project:**



Engenuity Group, Inc. was contracted by Erdman Anthony to complete a topographic survey of Olive Avenue from Quadrille Street to 6th Street in West Palm Beach. The topographic survey is going to be used to complete design drawings for the **City of West Palm Beach**. Features of the topographic survey included:

- Elevations on a 50' Grid
- All visible improvements and utilities
- Invert elevations of storm drainage manholes, culverts, catch basins, outfalls and box size/diameter
- Sanitary sewer manholes including pipe sizes and type
- Type and height of walls and fences
- Overhead wires
- Outline of landscaped areas
- Individual trees and shrubs over 4" caliper
- Pavement striping
- Set two (2) horizontal and vertical site benchmarks
- Coordinate with the City of West Palm Beach to assist with providing M.O.T. so that field survey personnel could acquire the required structure data.

We began and completed the topographic survey in January 2017. The topographic survey was completed within budget and ahead of schedule.

**Project:** City of Hollywood, Florida  
Digital Basemapping Services  
Johnson Street from SR7/ US-441 to 56th Avenue,

**Contact:** Lene't Adams  
Survey Field Crew Supervisor  
Biscayne Engineering Company, Inc.  
529 West Flagler Street, Miami, FL 33130  
(305) 324-7671

**Project Status:** Completed March 2014

**Engenuity Group Performed the Following Services for this Project:**

Engenuity Group provided field services by first locating existing improvements by performing a horizontal traverse using assumed horizontal and vertical values for positioning. Engenuity Group then located and identified all applicable existing above-ground and underground utilities with cross-sections at 100 foot intervals that extended 5 feet outside of right-of-way lines. Engenuity Group provided the rim and invert elevations and pipe size and type on all visible gravity sewer structures and outfalls both sanitary & storm drainage.

Engenuity Group then provided the locations of all existing buildings, concrete pads, valve boxes, water/electrical meter boxes, electrical pull boxes, telephone/cable risers, fences, hydrants, above-ground utilities, wood/concrete utility poles, overhead utility lines, culverts, guardrails, pavement limits, headwalls, end-walls, manholes, vaults, driveways, right-of-way limits, landscaping, traffic signage, other signage, and any other visible improvements within the right-of-way lines.

The locations of vegetation and individual trees greater than 4 inches in diameter were provided along with the location of the marking as performed by Sunshine State One Call indicating the presence of underground utilities which were marked on the ground prior to the commencement of field work. The final deliverable product will be an autocad base map.



**Project:** Cumberland Drive & Saratoga Roadway Improvements

**Contact:** Trent Ebersole, P.E., Project Manager  
McMahon Associates, Inc.  
2090 Palm Beach Lakes Blvd., Suite 400  
West Palm Beach, FL 33409  
(561) 840-8650  
tebersole@mcmahonassociates.com

**Project Status:** Professional Services Completed February 2016

**Engenuity Group Performed the Following Services for this Project:**

Engenuity Group, Inc. was contracted by McMahon Associates, Inc. to complete a topographic survey of Cumberland Drive. The topographic survey will be used to complete design drawings for the **City of West Palm Beach**. Features of the topographic survey included:

- Setting permanent benchmarks along Cumberland Drive
- Cross sections at 100' intervals along the length of Cumberland Drive and Saratoga Road. Spot elevations at all returns, median noses, sidewalk intersections and along the right of way corner clips at the intersections.
- Plat and right-of-way research along the length of the project to include easements as shown on plats.
- Topographic features included edge of pavement, curb, sidewalk, median, driveways, water valves, backflows, meter boxes, manholes, inlets including invert data, fire hydrants, above grade communication systems, ground mounted power transformers, and tree 6" in size and larger



We began and completed the topographic survey in February 2016. The topographic survey was completed within budget and ahead of schedule.

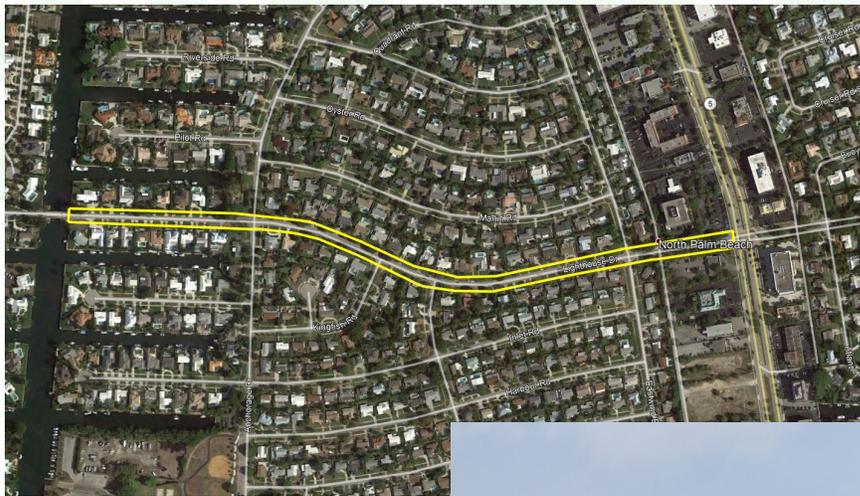
**Project:** Village of North Palm Beach - Lighthouse Drive

**Contact:** Mr. Steven J. Hallock, Director of Public Works  
Village of North Palm Beach  
645 Prosperity Farms Rd  
North Palm Beach, FL 33408  
(561) 691-3440  
shallock@village-npb.org

**Project Status:** Professional Services Completed November 2018

**Engenuity Group Performed the Following Services for this Project:**

Engenuity Group worked with the Village of North Palm Beach to provide Professional Surveying Services to assist the Village in creating a Lighthouse Drive Concept Study. Engenuity Group was responsible for the topographic survey, which included the location of all features and utilities, from the Bridge to US-1.



**Project:** Haverhill Road from Caribbean Blvd. to Beeline Hwy.

**Contact:** Jasmani Riveron, P.E., Project Manager  
RJ Behar & Company, Inc.  
12788 Forest Hill Blvd., Suite 2003B  
Wellington, FL 33414  
(561) 333-7000  
jriveron@rjbehar.com

**Project Status:** Professional Services Completed 2016

**Engenuity Group Performed the Following Services for this Project:**

Engenuity Group, Inc. was contracted in 2014 by R.J. Behar & Company, Inc. to be the project surveyor for the design of Haverhill Road from Caribbean Blvd. to Beeline Hwy. This was a project that R.J. Behar was selected as the prime consultant to design through an RFQ process implemented by the Roadway Production Department for Palm Beach County.

Services to be performed for this design included a topographic survey of the Haverhill Road corridor, a Control Survey, and other miscellaneous topographic data include subsurface detection, performed by Ground Hound, Inc., soil borings, and wetland demarcations.

Challenges included working in the right-of-way of the CSX railroad which required cooperation and permitting by CSX as well as escort by railroad employees when on-site. Topographic data included but was not limited to pavements, fences, drainage structures/pipes, trees, and above ground visible utilities.



**Project:** City of West Palm Beach - Roosevelt Estates

**Contact:** Ms. Lina Camacho, P.E., Senior Project Engineer  
City of West Palm Beach Engineering Services  
401 Clematis St., 4th Floor  
West Palm Beach, FL 33401  
*Lcamacho@wpb.org*

**Project Status:** Professional Services Completed November 2015

**Engenuity Group Performed the Following Services for this Project:**

Engenuity Group worked with the City of West Palm Beach to provide Professional Surveying Services to create a digital base map to begin the City's efforts of rehabilitating the Roosevelt Estates right-of-ways. Engenuity Group provided a Topographic Survey of the entire neighborhood which included data such as elevations, the locations of light poles, roadway sidewalks, road signs and driveways.



**Project:** Palm Beach Gardens- Campus Drive Topographic Survey

**Contact:** Todd Engle, P.E., City Engineer  
City of Palm Beach Gardens  
10500 N. Military Trail  
Palm Beach Gardens, FL 33410  
(561) 804-7012  
tengle@pbgfl.com

**Project Status:** Professional Services Completed July 2016

**Engenuity Group Performed the Following Services for this Project:**

Through its Continuing Contract for Surveying Services with the City of Palm Beach Gardens, Engenuity Group, Inc. provided a Topographic Survey of a portion of Campus Drive, pursuant to Chapter 5J-17.050(10)(k), Florida Administrative Code. The survey limits extended from the south of the right-of-way line of PGA Blvd south to the North boundary line of the Palm Beach Gardens Fire Station No. 2.

Surveying services for this project included:

- Establishing horizontal and vertical control networks;
- Locating above ground improvements including, but not limited to, swales, trees (4" in diameter and larger measured at breast height), driveways (including material), curbing, mailboxes, light poles, street signs, valves, drainage structures, manholes, bridges and above ground, visible utilities.



**Project:** Lake Avenue Topographic Survey

**Contact:** Natalia Lercari, P.E., Senior Project Manager  
McMahon Associates, Inc.  
2090 Palm Beach Lakes Boulevard, Suite 400  
West Palm Beach, FL 33409  
(561) 840-8650 x4105  
nlercari@mcmahonassociates.com

**Project Status:** Professional Services Completed in 2018

**Engenuity Group Performed the Following Services for this Project:**

Engenuity Group produced a topographic survey of Lake Avenue in West Palm Beach, between Park Place and Belvedere Road for McMahon Associates. Our collected data contained pavement from back of curb to back of curb on either side of the roadway, driveways, manholes and inlets, with rim and invert elevations, right-of-way lines, signs, pavement marking, light poles, and other above ground features.

Further data collected at the intersections of Lake Avenue with Flamingo Drive, with Biscayne Drive, and with Ardmore Road included data from the back of sidewalk to back of sidewalk and extending in a 100 foot past the return at the intersections on Lake Avenue and side streets

Portion of Lake Avenue from Southern Blvd to Nottingham Blvd was also surveyed from back of the sidewalk to back of the sidewalk within the right-of-way, including roadway, driveways and manholes, inlets with rim and invert elevations, ROW lines, signs, pavement markings, light poles and other above ground features.



**Project:** **Topographic Survey of W 28th St, W 30th & W 36th St, and Avenue O—Riviera Beach**

**Contact:** Brent Whitfield  
Director of Water Resources, Senior Engineer  
Chen Moore & Associates, Inc.  
500 Australian Avenue South, Suite 850  
West Palm Beach, FL 33401  
(561) 746-6900 , Ext. 1160  
bwhitfield@chenmoore.com

**Project Status:** Professional Services Completed in 2019

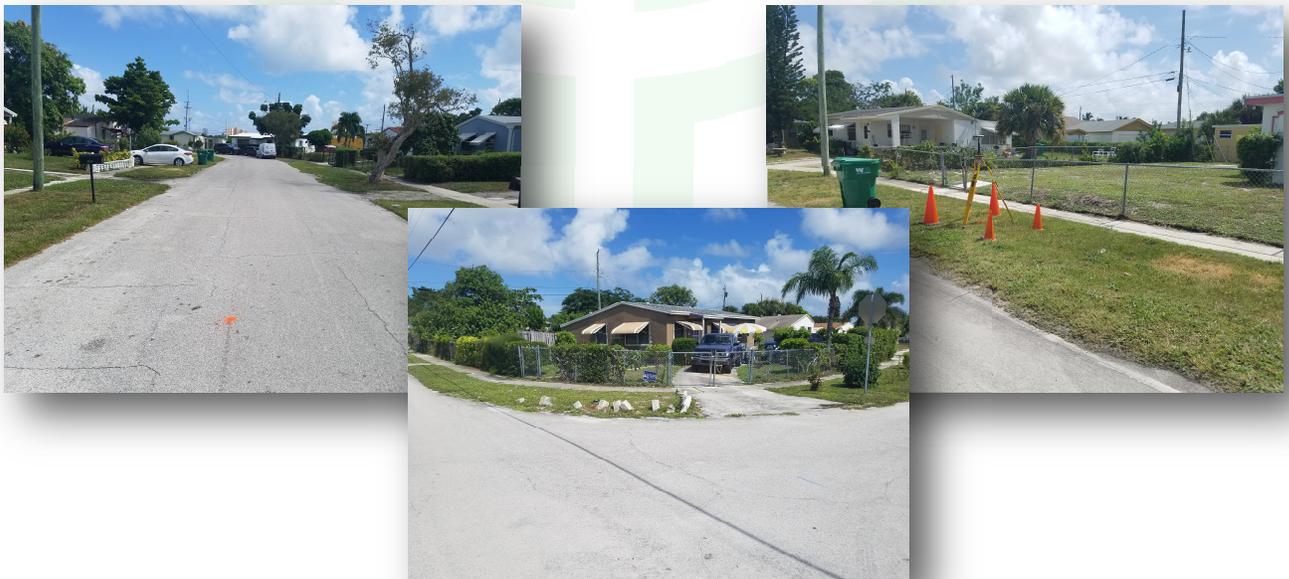
**Engenuity Group Performed the Following Services for this Project:**

Chen Moore was tasked by the City of Riviera Beach to add water and sewer to the road and drainage project they have designed, which consisted of roughly 5,700 linear feet of roadway. Engenuity Group provided professional surveying services, preparing topographic surveys of the following sections:

- West 28th Street from Avenue R to Avenue O
- West 30th Street from Avenue R to Avenue O
- West 36th Street from Avenue O to Barrack Obama Hwy
- Avenue O from West 28th Street to West 30th Street

Our scope enveloped

- R/W to R/W location of all above ground features,
- Cross sections every 100-ft,
- Rim and Invert Elevations of Sewer Manholes,
- Rim and Invert Elevations of Drainage.



**Project:** Oswego Avenue Properties

**Contact:** Mr. Elizee Michel, AICP  
Executive Director  
Westgate/Belvedere Homes CRA  
1280 N. Congress Ave, Suite 215  
West Palm Beach, FL 33409  
emichel@pbcgov.org  
(561) 640-8181 x102

**Project Status:** Professional Surveying Services Completed in 2019

**Engenuity Group Performed the Following Services for this Project:**

The CRA designated these 6 lots as pump station sites, which required professional surveying of topography and boundaries. We have prepared two (2) topographic and boundary surveys of these six parcels on Oswego Avenue. The topographic survey included trees, elevations every 50', 3 cross sections on each survey of the adjacent LWDD canal and a review of the title commitments that were provided by the CRA.



**Project:** Datura Street and Evernia Street Topographic Survey

**Contact:** Natalia Lercari, P.E., Senior Project Engineer  
McMahon Associates, Inc.  
2090 Palm Beach Lakes Boulevard, Suite 400  
West Palm Beach, FL 33409  
(561)840-8650 x4105  
nlercari@mcmahonassociates.com

**Project Status:** Professional Services Completed in 2017

**Engenuity Group Performed the Following Services for this Project:**

McMahon Associates were conducting work along Evernia and Datura Streets in the City of West Palm Beach, for which there needed to be topographic surveys done on the following segments of these roads:

- From the west right-of-way line of Quadrille Boulevard to the east right-of-way of Narcissus Avenue, including 10 feet on either side of the north and south right-of-way lines on Datura Street and
- From the west right-of-way line of Quadrille Boulevard to the east right-of-way line of Narcissus Avenue, including 10 feet on either side of the north and south right-of-way-lines.

The collected data included edge of pavement, driveways, sidewalks, manholes and inlets with rim and invert elevations, trees, signs, and light poles. Elevations were taken at every 50 feet and 50 feet in all directions at intersections.



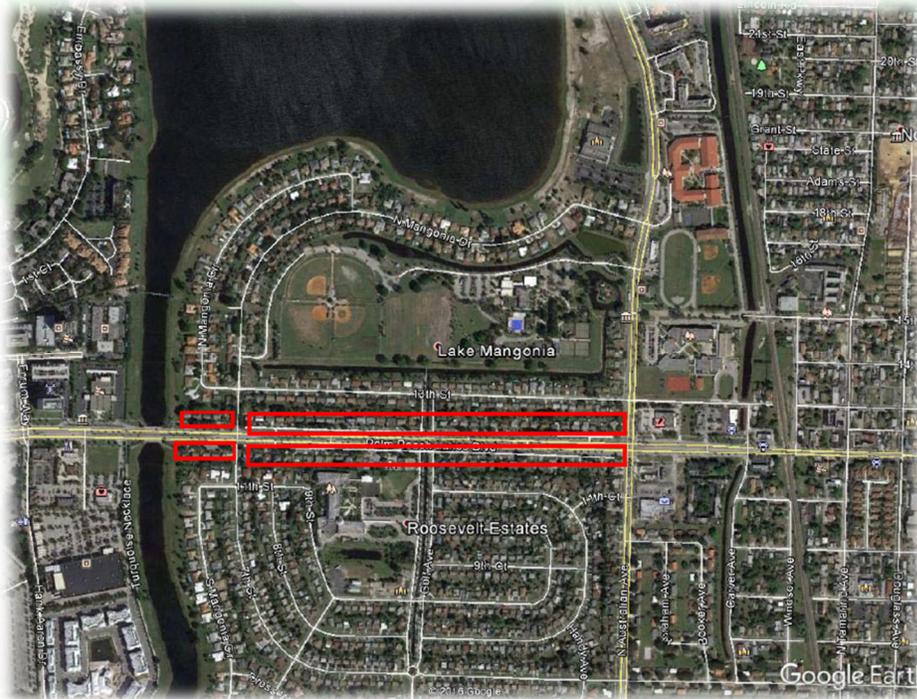
**Project:** Cumberland Drive & Palm Beach Lakes Boulevard Topographic Survey

**Contact:** Ms. Uyen Dang  
Senior Project Engineer  
City of West Palm Beach Public Works  
401 Clematis Street, 4th Floor  
West Palm Beach, FL 33402  
(561) 494-1087  
kudang@wpb.org

**Project Status:** Professional Services Completed in 2017

**Engenuity Group Performed the Following Services for this Project:**

The City undertook a task to improve conditions at Cumberland Drive and Saratoga Road intersection off Village Boulevard, with a new roundabout. EGI provided professional surveying services of Cumberland Drive and Saratoga Road for the design which now had to be modified. In addition to the modification of the original design there was the addition of bike lanes that were not included in the first survey. Palm Beach Lakes Boulevard needed a topographic survey as well, between the canal that is just east of Hank Aaron Drive and Australian Avenue. Below is the latter area outlined. There are frontage roads on both sides of Palm Beach Lakes Boulevard, those were subject prior to milling and resurfacing, that needed to address drainage issues.



**Project:** 15th & 17th Avenue S. Bathymetric Survey

**Contact:** Brent Whitfield, P.E., Senior Engineer  
Chen Moore & Associates  
500 Australian Avenue, Suite 850  
West Palm Beach, FL 33401  
(561) 746-6900  
bwhitfield@chenmoore.com

**Project Status:** Professional Services Completed in 2018

**Engenuity Group Performed the Following Services for this Project:**

Provided topographic information on land, at the end of 15th Avenue S. to the waterline, than a bathymetric survey extending into the Lake Worth Lagoon by 15th Avenue and also by 17th Avenue. This information and data was requested by Chen Moore to evaluate the surface of the bottom in the water and see how far it extends flat before the drop off.





## **JENNIFER MALIN, P.S.M.**

### **PROJECT MANAGER**

Mrs. Malin is a Registered Land Surveyor in the State of Florida with over 15 years of experience in the field. She has been working at Engenuity Group, Inc. since 2003 and has a superior understanding of surveying and mapping concerns in South Florida. She is a seasoned AutoCAD Drafter and always produces a superior quality of service in a timely manner.

#### **Education, Organizations, & Honors**

B.S., Surveying & Mapping, University of Florida, 2003  
Registration: State of Florida, Surveying and Mapping, LS #6667  
Florida Surveying & Mapping Society Member- 2005 No. 8481  
Qualified Stormwater Management Inspector

#### **Experience**

##### **Broward County Emergency Operations Center**

Ms. Malin served as Project Manager for the preparation of a boundary and topographic survey to facilitate improvements at the Broward Co. EOC. The area surveyed included the bus transfer and maintenance areas, showing rights-of-ways in the roads. Ms. Malin coordinated with Blood Hound, Inc. to obtain underground utility locations which was presented to the civil engineer and landscape designer.

##### **Orange Avenue Circle Roadway Improvements**

Served as Project Manager for the construction layout phase. Tasks included calculations for horizontal and vertical control, stake and grade and as-built survey and the preparation of record drawings.

##### **Village of North Palm Beach**

Served as Project Manager, assisting the Village of North Palm Beach in creating a Lighthouse Drive Concept Study. Responsible for the preparation of a topographic survey that included location of all features and utilities from the bridge to US-1.

##### **City of Margate**

- Topographic Route Survey of Southgate Blvd & Rock Island Rd

##### **City of Hollywood**

- Topographic Route Survey of Johnson Street

##### **Town of Jupiter Island**

- Located sufficient horizontal control points to register the previously created map to the vertical data

- Quality controlled the horizontal features and made updates
- Collected elevations at 50' stations and high/low points
- Provided topography in the wooded conservation areas for future drainage design

### **Parkland Royale**

- Boundary, Topographic and Alta Survey
- Plat Preparation
- Sketch and Descriptions

### **Village of Palm Springs**

- Boundary & Topographic Survey of Foxtail Palm Park
- Prepared a Sketch & Description for Cross Street Right-of-Way
- Topographic Survey of Village Property @ 3859 Kirk Road
- Prepared Legal Descriptions for Lift Stations on Lake Worth Rd. & Price St.
- Topographic Survey for 4 Lift Stations included in 2017 Improvements Package
- Topographic Survey for New Sidewalk on Lakewood Road
- Boundary & Topographic Survey for Fitness Pavilion
- Topographic Survey for 4 Lift Stations included in 2018 Improvements Package
- Topographic Survey for Cypress Lane Stormwater Improvements
- Sketch & Descriptions for Lakewood & Coconut Roads

### **City of West Palm Beach**

- Topographic Survey for Palm Beach Lake Boulevard
- Topographic Survey for Cumberland Drive
- Topographic Survey Olive Avenue from Quadrille St to 6<sup>th</sup> St
- Boundary, Topographic and Hydrographic Survey of Flagler Drive
- Bathymetric Survey for Environmental Analyses for Waterfront Facilities
- Specific Purpose Survey of Spruce Avenue from 25<sup>th</sup> Street to 40<sup>th</sup> Street
- Boundary & Topographic Surveys at 5 well sites
- Design Survey of Market St., Carver Canal and 33<sup>rd</sup> St.
- Topographic Survey of El Monte neighborhood
- Topographic Survey of Roosevelt Estates
- GIS data management, analysis and update
- Boundary Survey of WPB Golf Course
- Topographic Survey of Historical Chemical Building
- Topographic Survey of Tamarind Avenue from Okeechobee Blvd to Banyan St.
- Topographic Survey for Dock Street Forcemain replacement
- Topographic Survey for Lift Station 71 Improvements
- Topographic Survey of Rosemary Avenue from Clematis St. to 11<sup>th</sup> St.

### **Village of Wellington**

- Topographic Survey for Big Blue with Sketch and Descriptions of encroachments
- Topographic Survey for Rustic Ranches
- Topographic Survey for 50<sup>th</sup> Street South
- Underground Utility Locating and Topographic Survey for Watermain Replacement Project
- Topographic Survey Southshore Boulevard Phase III
- Topographic Survey of Big Blue Trace and Paddock Drive
- Topographic Survey of Pierson Road
- Topographic Survey of Fairlane Farms Road
- Topographic Survey of Flying Cow Road
- Topographic & Boundary Survey of Wellington Landings Middle School
- Establish Controls and obtain topographic data of Acme Road Driveway Connection
- Topographic Survey of 130<sup>th</sup> Ave S and 50<sup>th</sup> St S Horse Crossing
- Topographic Survey of Stribling Way & Fairlane Farms Road
- Boundary Survey, Alta Survey, Fema Certificate of Lake Wellington Professional Center

#### **Village of Royal Palm Beach**

- Boundary Survey and plat for Golf Course Phase 1, 2 & 3
- Topographic Survey and Asbuilts for Golf Course Lots
- Topographic Survey for Bridge Slope Stabilization at 13 sites
- Topographic Survey for Commons Park Amphitheater
- Construction Staking and Controls for Crestwood Blvd N Streetscape Phase II
- CAD Drafting services 2013-

#### **City of Greenacres**

- Original Section Drainage Improvements
- Clearing and Reconstruction of the Alleyways between Perry Avenue and Fleming Avenue
- Topographic Survey of Raulerson Drive and LWDD L-12 Canal
- Topographic Survey of 57th Street
- Sketch and Legal Description of 3 parcels on 10th Ave N.
- Sketch of easement and legal description of Liberty Park Elementary School
- Asbuilts and Controls with elevation for Ramblewood Harwich Court Subdivision
- Establish Controls, gather topographic data and prepare record drawings for Bowman Street Drainage Improvements Project
- Construction Layout, Asbuilts and Controls, Record Drawings for 1st Street Drainage
- Boundary Survey of 301 Swain Blvd
- Topographic Survey of Ira Van Bullock Park



## JOSEPH WILLIAMS PROJECT SURVEYOR

Mr. Williams has nineteen years of experience on surveying crews and has worked with Engenuity Group for several years. Mr. Williams lives in Port St. Lucie and is a dependable and vital part of the Engenuity Group surveying team. He is in charge of overseeing all crew coordination and scheduling of job locations. He communicates with clients to make sure crews perform their work in a timely and professional manner. Joe is also an excellent AutoCAD drafter and utilizes the software on a daily basis to assist in creating surveys and to calculate data for the field crews.

### **Certification:**

FAA – Small UAS

### **Education:**

Mr. Williams has earned a High School Diploma in St. Lucie County.

### **Experience:**

#### **Village of North Palm Beach**

- Topographic Survey of Lighthouse Drive

#### **City of Sunrise**

- Boundary Survey of 1220 Sunset Strip

#### **City of Margate**

- Topographic Route Survey of Southgate Blvd & Rock Island Rd

#### **City of Riviera Beach**

- Sketch and descriptions for access easements for Utility Plant
- Topographic Survey of 13<sup>th</sup> Street (Dixie Highway to Avenue P)
- Topographic Survey of Blue Heron Blvd/Avenue P intersection
- Topographic Survey of Avenue T and RC-5 Canal
- Topographic Survey of Avenue S and 23<sup>rd</sup> Street
- Topographic Survey for Fire Station No.2 at Barracuda Bay
- Topographic Survey and Staking at Dune Walkover Reestablishment
- Topographic Surveys of 18 City Streets for a total of about 21,00 Feet
- Boundary Survey of City Hall
- Topographic Survey of East 25<sup>th</sup> Street
- Topographic and Tree Survey of DCF, Site No.110
- GIS services for Stormwater Project

### **Village of Wellington**

- Topographic Survey for Big Blue with Sketch and Descriptions of encroachments
- Topographic Survey for Rustic Ranches
- Underground Utility Locating and Topographic Survey for Watermain Replacement Project
- Topographic Survey Southshore Boulevard Phase III
- Topographic Survey of Big Blue Trace and Paddock Drive
- Topographic Survey of Pierson Road
- Topographic Survey of Fairlane Farms Road
- Topographic Survey of Stribling Way & Fairlane Farms Road
- Boundary Survey, Alta Survey, Fema Certificate of Lake Wellington Professional Center
- Topographic Survey of Flying Cow Road

### **Northlake Boulevard (from Hall Blvd to Coconut Blvd)**

- Topographic Survey

### **City of Palm Beach Gardens**

- Topographic Survey and As-Builts of Allamanda Blvd
- Topographic Survey of Shady Lakes Drive
- Topographic Survey for Campus Drive
- Construction Layout for City Park and Tennis Center
- Topographic Survey for City Hall Administrative Complex
- Topographic Survey of 3 Bridges
- Topographic Survey for Balsamo Open Parcel
- Boundary Survey of City Bank

### **Palm Beach County**

- Topographic Survey for design of Water Utilities Department Watermain Improvements
- Haverhill Road from Caribbean Blvd to Beeline Highway

### **City of Lake Worth**

- Topographic Survey of various streets
- Topographic and Boundary Survey of Aldi #19
- Casting Elevation of Monitoring Well 9
- Location in Latitude and Longitude of PB 693 at 16th Ave South and Palmway
- Stake and Grade Manhole at Boutwell Rd N and 10th Ave N
- Topographic Survey of alleyway from Lake Ave to 3rd Ave South



## **TRAVIS MORRELL**

### **PROJECT SURVEYOR**

Mr. Morrell is a disciplined project surveyor with comprehensive knowledge and skill-set of field and office survey tasks, photogrammetry, and drone operations. Mr. Morrell also manages field crew scheduling and is well versed in AutoCAD design with plenty of hands-on knowledge and experience.

#### **Education:**

AutoCAD Comprehensive Course- Broward Community College, 2007  
Greenwich High School – Greenwich, CT, 1998

#### **Certification:**

Gold Coast Professional Schools – Association Manager Pre-licensing Course, Tamarac, FL 2019

#### **Experience:**

##### **Village of Wellington**

- Topographic Survey of C-2 Canal at Bridle Crossing
- Topographic Survey of C-2 Canal and C-24D Canal Intersection
- Right-of-way staking from Pump Station #3 south towards Acme Improvement District right-of-way

##### **City of West Palm Beach**

- Boundary Survey of City Golf Course

##### **City of Boynton Beach**

- Staking of Property Lines north of Landfill
- Boundary Survey of Tract 1 & 2

##### **City of Sunrise**

- Boundary Survey of 1220 NW 61<sup>st</sup> Avenue
- Topographic Survey

##### **John Prince Memorial Park Therapeutic Center**

- Topographic Survey

##### **Monterey House**

- Special Purpose Survey (lowest & highest elevation)

##### **Florida Crystals**

- Topographic survey of bridge site over New River on US HWY 27

#### **Parker Avenue to Belvedere Road (580 Feet), WPB**

- Topographic Survey

#### **205 Datura Street**

- Boundary & Topographic Survey

#### **Sanders Residence Development**

- Topographic Survey
- Construction Staking
- Formboard Survey

#### **Construction Projects**

- Northlake Blvd & Military Trail – Asbuilts, Controls, Record Drawings
- Town of Palm Beach Townwide Utility Undergrounding Phase 2 North
- Whispering Trails Construction Staking, Asbuilts, Record Drawings
- Roebuck Rd from Jog Rd to Haverhill Blvd
- Intersection of Roebuck Rd & Jog Rd
- Linton International Plaza (Construction Staking, Formboard & Final Survey)
- Sunshine Hotel
- The Hive Home, Gift & Garden Building Extension
- PBC Shooting Sports Park Phase 3
- Orange Avenue Circle Improvements, Belle Glade



## DAVID KUPSICK DRAFTING MANAGER

Mr. Kupsick has over 30 years of experience providing CAD services for construction, land development and DOT civil/survey projects using AutoCAD and MicroStation. He's highly proficient in survey crew support, data collection reduction, platting, boundary, mortgage, ALTA and specific purpose surveys, control surveys, right-of-way maps, sketch and description and construction layout.

### **Certification:**

Microsoft Windows Server 2003 & Windows XP

### **Education:**

Bachelor of Arts in Mathematics, Florida Atlantic University – 1987  
Electrical Engineering, Georgia Institute of Technology – 1981-1984

### **Experience:**

#### **SFWMD Stormwater Treatment Area (STA) A-2**

Providing topographic survey and sketch and descriptions for this project, about fifteen miles south of Lake Okeechobee, part of the Central Everglades Planning Project (CEPP). The project spreads over 6,500 acres of mostly sugar cane fields that the District will transform for the treatment of stormwater, without adversely affecting the Lake or the Ten Thousand Islands area.

#### **City of Riviera Beach**

Under our continuing surveying contract Mr. Kupsick is Project Surveyor for various projects throughout the City. He has prepared a

- Topographic Survey of 34<sup>th</sup> Street from Avenue H to Avenue J,
- Topographic Survey of 35<sup>th</sup> Street from Avenue J to Avenue H'
- Topographic Survey of 36<sup>th</sup> Street from Avenue J to Avenue H,
- Topographic Survey of Park Manor

#### **Monterey Pointe Neighborhood at PGA National**

Prepared a topographic survey of a predetermined area of this neighborhood in connection with the development of their HOA.

#### **FDOT Related Projects**

Completed various projects, provided mapping and topographic surveying services.

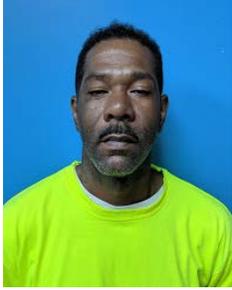
Mr. Kupsick prepared a Topographic Survey and PNC sheets for State Road #7 from Orange Drive to I-595 (District 4), utilizing MicroStation, SS4, and Trimble Business Center. He used TopoDOT to extract planimetric features and prepare and integrate digital scanning of critical intersections as part of the deliverable.

Mr. Kupsick has also prepared PNC sheets for Hallandale Boulevard, in Broward County.

### **South Florida Water Management Projects**

Prepared a topographic survey with cross sections for

- North New River Canal
- Bolles Canal
- L-15 Canal
- As-built Survey of levees, distribution and spreader canals
- Three Lakes Wildlife Management Area Compartment "B" & "C"



## **DEREK SAFFOLD**

### **CREW CHIEF**

Mr. Saffold is a crew leader. He has over ten years of experience on surveying crews. He has worked with Engenuity Group for several years. His duties encompass boundary surveys, topographic surveys, construction stake out, as-built surveys, route surveys, and cross sections of roads, canals, and lakes.

Trains personnel on use of total station and data collector, electronic level, RTK-GPS, and general field survey practices.

Extremely knowledgeable on local survey control network, achieving survey accuracy and precision through redundant field measurements.

Since joining Engenuity Group, he has performed As-builts and construction layout at Hulett Environmental Services, Topographic Surveys and right of way staking in the Village of Wellington, and Palm Beach International Airport. He has also been an asset at the Solid Waste Authority performing As-builts and construction layout as a subconsultant for CDM Smith. These are just a few of the major projects he is working on that are being completed on time and on budget.

#### **Certifications:**

Confined Spaces in Construction Certification, Safety Services Company, 2018  
Certified with CSX Railroad Safety Course  
Licensed Authorized Escort Driver at Palm Beach International Airport  
Federally Authorized with Transportation Worker Identification Credentials (TWIC)

#### **Experience:**

##### **Parkland Royale**

- Topographic Survey
- Boundary Survey
- Alta Survey

##### **City of Margate**

- Topographic Route Survey of Southgate Blvd & Rock Island Rd

##### **Village of Wellington**

- Topographic Survey of South Shore Blvd, Phase III
- Topographic Survey of Big Blue Trace and Paddock Drive
- Topographic Survey of Pierson Road
- Topographic Survey of Fairlaine Farms Road

- Topographic Survey of Stribling Way & Fairlane Farms Road
- As-builts

### **Village of Palm Springs**

- As-builts
- GIS Services
- Fitness Pavilion Boundary & Topographic Survey

### **Solid Waste Authority**

- As-builts
- Construction Layout

### **Roebuck Road from Jog Rd. to Haverhill Rd. & Intersection Improvements**

- Construction Survey

### **Braman Porsche, Bently, Rolls Royce**

- Construction Survey

### **WPB ECRWRF AWT Facility Renovations**

- Topographic Survey

### **City of West Palm Beach**

- Topographic Survey of El Monte neighborhood
- Topographic Survey of Roosevelt Estates
- GIS data management, analysis and update
- Boundary Survey of WPB Golf Course
- Topographic Survey of Historical Chemical Building
- Topographic Survey of Tamarind Avenue from Okeechobee Blvd to Banyan St.
- Topographic Survey for Dock Street Forcemain replacement
- Topographic Survey for Lift Station 71 Improvements
- Topographic Survey of Rosemary Avenue from Clematis St. to 11th St.
- Topographic Survey of Parker Avenue to Belvedere Road

### **Pipeline Experience**

- North Dakota Crude Oil/Natural Gas Pipeline Surveying
- Provided right-of-way and layout survey for pipeline
- Performed route surveys for pipeline
- Performed construction staking for pipeline
- Provided construction As-builts for surveyors
- Performed Well Pad construction and as-built surveys



## **JAMES HAGER**

### **CREW CHIEF (BACKUP)**

Mr. Hager is a second generation surveyor who has over twenty years of experience. Mr. Hager is responsible for supervising survey personnel in performance of survey operations. These duties encompass boundary surveys, topographic surveys, construction stake out, as-built surveys, route surveys, and cross sections of roads, canals, and lakes. Mr. Hager trains personnel on use of total station and data collector, and RTK-GPS. He is extremely knowledgeable about the local survey control network, achieving survey accuracy and precision through redundant field measurements.

During his tenure as a land surveyor, he has performed work with Pembroke Pines Everglades Restoration Project for the Army Corp of Engineers, Kissimmee Water District. Alta, route surveys, construction staking, topographic surveys and as-builts are also among his specialties.

**Certifications:** Confined Spaces in Construction Certification, Safety Services Company, 2018

#### **Experience**

##### **Broward County EOC**

- Topographic Survey
- Boundary Survey

##### **Parkland Royale**

- Topographic Survey
- Boundary Survey
- Alta Survey

##### **Village of Palm Springs**

- Topographic Survey of Frost Lake Outfall

##### **Palm Beach County Tax Collector**

- Sub Consultant – Tree, Topographic and Boundary Survey for Palm Beach Gardens Driver's License Office

##### **PBC Credit Union**

- Tree, Topographic and Boundary Survey

##### **Village of Palm Springs**

- Topographic Survey of Mediterranean Lift Station



## **C. ANDRE RAYMAN, P.S.M.**

### **SURVEY QUALITY CONTROL**

Mr. Rayman is a Registered Land Surveyor in the State of Florida and has over 33 years of experience in the surveying field. He is a fourth generation land surveyor and has been with Engenuity Group since 1988. He is an expert at topographic, boundary, and tree surveys as well as basemaps, right-of-way maps and sketch and descriptions. He has 3 decades of experience in data quality control / quality assurance collection analyzation, and has used that knowledge and experience to provide our clients with a service tailored to their needs.

#### **Education**

B.S., Surveying & Mapping, University of Florida, 1988

Registration: State of Florida, Surveying and Mapping, LS #4938 (1991)

#### **Organizations & Honors**

- Florida Surveying and Mapping Society Palm Beach Chapter, Vice President (2006-2007), President (2007-2008)
- Florida Association of Cadastral Mappers
- American Congress on Surveying & Mapping
- Forest Hill High School Engineering Academy Adviser (2007-2012)
- FES Mentor Program at Florida Atlantic University (2011-2013)
- Palm Beach County League of Cities, Associate Member (2004-present)
- Florida Atlantic University Geomatics Engineering Advisory Committee, Executive Chair (2010-2016), Board Member (2010-present)

#### **Experience**

##### **City of Hollywood**

- Route Survey of Johnson Street

##### **City of Margate**

- Topographic Route Survey of Southgate Blvd. & Rock Island Rd.

##### **Parkland Royale**

- Boundary, Topographic and Alta Survey
- Plat Preparation
- Sketch & Descriptions

##### **Westgate/Belvedere CRA**

- Topographic Survey of Belvedere Heights
- Boundary Survey of Babbling Brook & Dennis P. Koehler Preserve
- Boundary Survey of 1909 Seminole Boulevard & 2730 Oswego Avenue
- Boundary Survey of 2636 Westgate Avenue and block of 2636 Westgate Avenue (4 lots)

- Boundary Survey of 2741 Westgate Avenue
- Boundary Survey of Oswego Avenue Properties (6 lots)
- Boundary Survey of Westgate Avenue parcels ((9 lots)

### **City of Riviera Beach**

- Right-of-way maps and parcel maps for Riviera Beach, 13<sup>th</sup> Street, 11<sup>th</sup> Street and Avenue "C". (Port of Palm Beach)
- Boundary survey of City Hall
- Sketch and descriptions for access easements for Utility Plant
- Topographic Survey of West 36<sup>th</sup> Street
- Boundary Survey at 1101 W. 13<sup>th</sup> Street
- Topographic Survey of 13<sup>th</sup> Street (Dixie Highway to Avenue P)
- Topographic Survey of Blue Heron Blvd/Avenue P intersection
- Topographic Survey of proposed Public Works complex
- Riviera Beach Storm water data collection for GIS
- Topographic Survey of Avenue T and RC-5 Canal
- Topographic Survey of Avenue S and 23<sup>rd</sup> Street
- Topographic Survey of utility plant for design
- Inner City Golf Youth Museum

### **City of West Palm Beach**

- Topographic Survey for Palm Beach Lake Boulevard
- Topographic Survey for Cumberland Drive
- Topographic Survey Olive Avenue from Quadrille St to 6<sup>th</sup> St
- Boundary, Topographic and Hydrographic Survey of Flagler Drive
- Boundary and Topographic Survey for design at 5 Well Sites
- Bathymetric Survey for Environmental Analyses for Waterfront Facilities
- Specific Purpose Survey of Spruce Avenue from 25<sup>th</sup> Street to 40<sup>th</sup> Street
- Specific Purpose Survey of Old City Hall
- Boundary Survey of WPB Historic Chemical Building

### **Town of Palm Beach**

- Worth Avenue Streetscape and Infrastructure Improvements
- Topographic Survey for design of water distribution piping replacement system

### **Village of Wellington**

- Topographic Survey for Big Blue with Sketch and Descriptions of encroachments
- Topographic Survey for Rustic Ranches
- Topographic Survey for 50<sup>th</sup> Street South
- Underground Utility Locating and Topographic Survey for Watermain Replacement Project
- Topographic Survey of Greenbriar Blvd
- Topographic and Boundary Survey of Rushy Marsh Farm

### **Village of North Palm Beach**

- Topographic Survey for Bulkhead Design/Retrofit
- Golf Course Boundary Definition for new Golf Course Layout
- Plat review
- Basemap and Sketch/Description for Carolinda Drive
- Topographic & Boundary Survey for Anchorage Park
- Drainage System Mapping

### **North Palm Beach County**

- Topographic Survey of General Aviation Airport

### **Town of Lake Clarke Shores**

- Review Plats
- Topographic and Boundary Survey of Town Hall
- Cross Sections of LWDD Canal and Topographic Survey of City Park adjacent to Forest Hill Blvd
- Develop Property Ownership GIS
- Sanitary Sewer Expansion Project
- Stake and Grade

### **Marine Drive Road Improvements Navy Operational Support Center**

- Topographic and Boundary Survey

### **City of Lake Worth**

- GIS Data Collection
- Topographic Survey of various streets (46,000 linear feet)
- Topographic Survey of all Storm Structures (1,180 structures)

### **Town of Ocean Ridge**

- Various Base Map Projects for Stormwater Design including Tropical Drive, Coconut Lane, A-1-A corridor
- Review of Plats
- Topographic and Boundary Survey of 6301 N Ocean Blvd

### **City of Greenacres**

- Review of Plats
- Miscellaneous Sketch and Descriptions
- Topographic Survey of Alleyway project
- Topographic Survey of "A" and "B" canals
- Original Section Drainage Improvements
- Clearing and Reconstruction of the Alleyways between Perry Avenue and Fleming Avenue
- Dillman Road Topographic Survey for sidewalk

# DCRA 19-026 SURVEYING AND MAPPING



# CONSULTING SERVICES



Workloads and levels of availability for company-wide work backlog. This chart projected workload for all staff members



individuals vary, based on a represents the recent, current and of EGI dedicated to Hollywood CRA.

We anticipate and ensure allocating the appropriate resources to the Authority as needed to provide a timely and quality product on any and all services requested in this contract.



## APPROACH



**Engenuity Group** has a proven and specific approach to surveying projects. We understand and the objectives of the

Hollywood CRA (CRA) in regards to maintaining and enhancing the community in a sustainable, efficient and reliable manner. We envision developing a seamless relationship with the CRA, sharing goals and concerns alike. Our team surpasses all scope requirements and is committed to fulfilling our responsibilities to ensure our deliverable product is of the utmost quality in an easily compatible format that is user friendly.

We will have one field crew dedicated to the CRA (another one as a back-up), and four licensed professional surveyors and mappers in the office. Two serve as project surveyor and quality controller. Each survey crew has many years of field experience and each crew member is knowledgeable in many types of surveys including topographic design, right-of-way, construction layouts, as-built surveys and hydrographic surveys. In addition, two team members are certified with the Federal Aviation Administration (FAA) for drone mapping.

**Engenuity Group** has an excellent safety rating. All survey crew members are trained in working in confined spaces, trench safety, and general jobsite safety in addition to Red Cross First Aid certification, which are renewed on a yearly basis.

The following is a general overview of our approach to surveying and mapping tasks:

### Design (Topographic) Surveys

The purpose of a topographic survey is to gather survey data about the natural and man-made features of the land, as well as its elevations., and create paper map and/or a digital file for design purposes. A mathematical representation of the elevations gathered can be used to create a Digital Terrain Model (DTM).

Topographic surveying are true to scale and are produced to accurately represent details of both the natural and manmade environment. They will also include symbols representing features or data too small to produce to scale.

Elevation information is added in most cases as feature elevations or sometimes contours. This elevation information is related to a control datum such as NGVD 1929, or NAD 1988. Horizontal positioning is based on the Florida State Plane Coordinate system. (East coast zone) The elevation values may be used to generate contours to provide a better visual representation of the changes in terrain height across the site, or a digital terrain model through the interpretation of spot elevations. The DTM may be used as an input into a flow model.

The effort required to produce a topographic survey usually consists of the





## APPROACH



following:

- \* The establishment of precise horizontal and vertical control that will serve as the framework of the survey. These are usually established using a combination of GPS, total station traversing and three wire differential leveling.
- \* The collection of data includes sufficient horizontal locations and elevations (side shots) of ground points to provide enough data for preparing the map and locating natural and man-made features that may be required including the as-built information of structures. In some cases the effort will team with a sub-surface utility location company to map underground features such as electric, cable, communications etc.

The topographic survey will typically show the following information

- \* Road rights-of way, and recording information, adjacent plats, and ownership information, platted easements, and other easements of record
- \* A minimum of 2 temporary benchmarks per each plan view.
- \* All building features with 10 feet of the rights-of-way will be located and shown on the plan, including the lowest floor elevation of each building. All other physical features will be located and

shown on the plan. These features will include but are not limited to fences, roads, curbs, driveways, paths, gardens, stonewalls.

- \* All visible infrastructure features will be located and shown on the plan with the invert and rim elevations.
- \* All visible above ground utility features and structures will be located and shown on the plan.
- \* The perimeter outline of cleared areas or wooded areas, as appropriate, or individual native trees with size shall be located and shown on the plan.
- \* All test pits or soils borings, identified by the client, shall be located and shown on the plan.
- \* All bodies of water and the elevation of the water level on the subject property shall be located and shown on the plan. The water elevation will be accurate as of the last day of the field survey.
- \* Other information deemed necessary by the client

### Interface with Hollywood CRA Staff

**Engenuity Group** will communicate with the CRA's Staff to develop the scope of services under which the survey will be performed, and generate an accompanying fee via a written proposal. Once the proposal has been accepted and a Purchase order has





## APPROACH



been issued, **Engenuity Group** will commence to gather vertical and horizontal control, and other topographic or boundary information to complete the project

Temporary bench marks (TBM's) will be established by transferring vertical control from a minimum of two published benchmarks to the project site using three wire differential leveling.

The topographic data can then be gathered using traditional leveling, total station and data collector, or GPS receiver with data collector and base unit in real-time Kinematic mode. In some instances data can be gather using our "drone" Regardless of the methods of measuring used, there will be sufficient independent checks throughout the course of the data gathering to provide the necessary redundancy and guarantee of accuracy.

During the course of the project, all field data will be processed and reviewed ion a daily basis. This on time method of quality control prevents any mistakes in the field from propagating, and resulting in a project going over budget, and/or exceeding the project deadline.

Upon completion, the survey will be reviewed to make sure that it meets or exceeds the work order, and Florida Minimum Technical Standards. The final review will be by an independent in-house

licensed surveyor.

### Boundary Surveys

In performing any boundary survey, we will establish or re-establish the boundary line on the ground or will obtain data to construct a map or plat showing the boundary line. These boundary lines will be monumented in the ground, as necessary, and a legal description will be prepared for the subject parcel.

### Interface with CRA Staff

**Engenuity Group** will communicate with the CRA's Staff to develop the scope of services under which the survey will be performed. Once the purchase order has been issued, We will gather all historical information to aid the development of the survey. This data includes original deeds, original surveys, and subsequent resurveys, government field notes, local knowledge of citizens and surveyors, plats, certified corner records, and field monuments that will be located by our crews

All fieldwork will be based on State Plane Coordinates with coordinate values being established on all found corners.

During the course of the project, all field data will be processed and reviewed in a timely manner. This on time method of quality control prevents any mistakes in the field from propagating, and resulting in a project going over budget, or exceeding





## APPROACH



the project deadline.

All improvements within and crossing the boundary lines will be located. After all title and researched documentation had been reviewed and calculated, it will be analyzed together with all field evidence for final determination of the project boundary.

Upon completion, the survey will be reviewed to make sure that it meets or exceeds the work order, and the Florida Minimum Technical Standards.

The signed and sealed survey map depicting the field survey and surveyors report will be submitted to the CRA's staff Man for review and comment. Comments that are received from the Staff will be addressed in a professional and timely manner and resubmitted .

### Preparation of Sketches and Legal Descriptions

**Engenuity Group** will write legal descriptions that describe land boundaries by either a metes and bounds method or by aliquot parts.

The sketch that accompanies the legal description will show all of the information referenced in the description and also states that the sketch is not a survey. The initial point in our sketch and descriptions will be tied to a government corner, a recorded corner, or some other well-established survey point.

### Mapping/GIS Services

GIS uses digital information, which has been geo-referenced. This data can come from many different sources such as satellite imagery, tabular data, terrain data, parcel maps or survey collected data. This data is stored within the geo-database as raster and vector data.

Survey data can be directly entered into a GIS from digital data collection systems on survey instruments. Positions from a Global Positioning System (GPS), another survey tool, can also be directly entered into a GIS.

In addition to collecting and entering spatial data, attribute data is also entered into a GIS. For vector data, this includes additional information about the objects represented in the system.

After entering data into a GIS, the data usually requires editing, to remove errors, or further processing. For vector data it must be made "topologically correct" before it can be used for some advanced analysis.

**Engenuity Group** performs two (2) basic methods of mapping, done through either aerial (photogrammetric) or ground (field) technologies. In most circumstances, We use a combination of these two (2) methods. The photogrammetric method allows us to map large areas economically and accurately using our Inspire 2 drone with upgradeable camera. This mapping





## APPROACH ROLE OF PERSONNEL



HOLLYWOOD FLORIDA  
COMMUNITY REDEVELOPMENT AGENCY

will be based on horizontal and vertical control that has been established prior to the aerial mapping. Upon completing the mapping process, the field crew spot checks the mapped features.

After the data has been assembled, the GIS can be used for various types of analysis, and automated cartography.

GIS is used in digital cartography modeling as a (semi-automated process of making maps, so called Automated Cartography. Powerful analysis techniques with different data representation can produce high-quality maps within a short time period.

### Interface with CRA

**Engenuity Group** will communicate with staff to collaborate on the data sets that are needed to be collected, and to understand the templates that must be used to build the data sets. Our efforts will be carefully documented through metadata. It is important that all GIS data that is collected, is well documented as to the source, accuracy, and completeness.

Geodatabases may be gathered using traditional surveying techniques where the spatial data will be collected along with the associated data. Geodatabases may be generated by converting paper maps and hard copy records. Finally Geodatabases may be generated by combining cad maps

with digital database sets such as dbase4, Access, or Oracle.

All data that is generated will be quality controlled to assure that it can be input seamlessly into the existing CRA GIS. Data sources will also be documented using the proper metadata procedures, as outlined by the Federal Geographic Data Committee.

### Role of Personnel

#### 1. Preliminary meeting with the CRA

##### **Engenuity Group's Project Manager,**

Jennifer Malin, P.S.M. (department director) is the direct liaison to the CRA. She will meet/conference with the CRA to evaluate the initial scope of the project.

#### 2. Develop scope, deliverables and delivery date

The **Project Manager** (Ms. Malin) and **Project Surveyor** (Mr. Williams) assess the project to identify scope, deliverables and delivery date.

#### 3. Develop proposal and fee schedule

The **Project Manager** (Ms. Malin) and **Project Surveyor** (Mr. Williams)

estimate the fee schedule and formulate the proposal for our project.

#### 4. CRA approves proposal and fee schedule

If the CRA accepts our proposal then the





## APPROACH PROJECT TIMELINE



**Project Manager** assigns the project to the appropriate staff: **Project Surveyor** (Mr. Williams), **Crew Coordinator** (Mr. Morrell) and **AutoCAD Drafter** (Mr. Kupsick). If revision is needed to our proposal the **Project Manager** submits the revision and ensures that all criteria have been met in regards to the scope of the project and the CRA's vision and planning.

### 5. Project Team Mobilizes

The **Project Surveyor** (Mr. Williams) ensures that the field crew's time is allotted on the scheduling calendar, assigned to the project and is properly prepared and equipped to gather necessary data.

### 6. Internal Control and Procedures

The data gathered in the field is processed by the **Project Surveyor** (Mr. Williams) and **AutoCAD Drafter** (Mr. Kupsick) to its final,

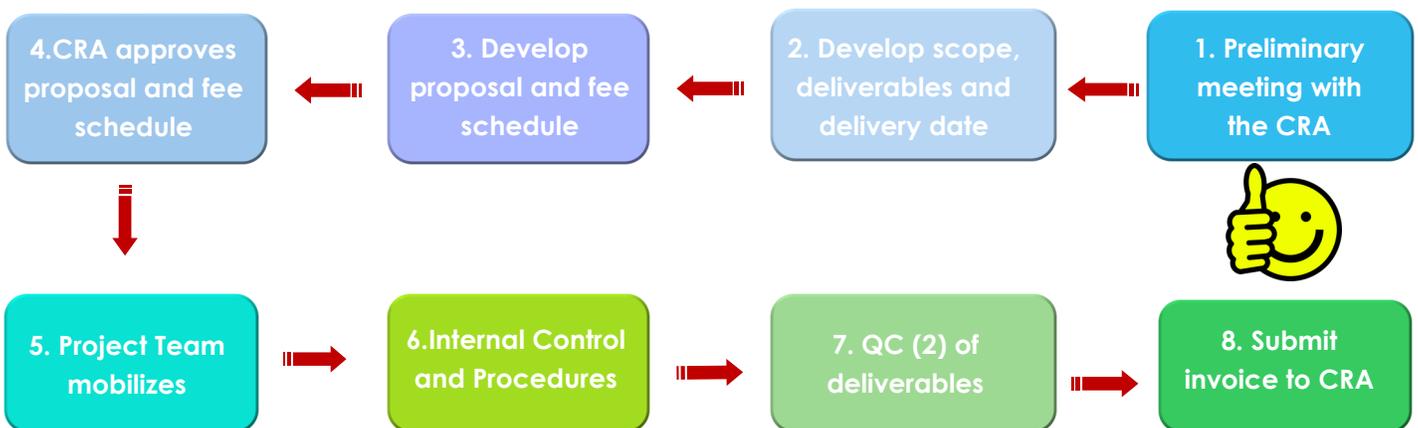
deliverable state).

### 7. Quality Control of Deliverables

Ms. Malin thoroughly examines the deliverable for accuracy and provides final redlines and quality control, then reviews the modified product. An independent review is then performed by a second professional surveyor. The work product is then transmitted to the CRA staff for possible comments which will be quickly addressed and returned until staff is satisfied.

### 8. Invoices to the CRA

**Project Manager** (Ms. Malin) authorizes invoice submittal to the CRA during our monthly billing cycle





## APPROACH PROJECT TIMELINE & TECHNOLOGY

A typical **2 lane road of 1000 feet** requires 20 hours of field work followed by 15 hours of CAD drafting. The Crew Coordinator will spend 3 hours on the job while the Project Manager will spend 2 hours and Quality Control another 2 hours.

A typical **4 lane road of 100 feet** will require 27 hours of field crew work, 20 hours of CAD drafting, 4 hours of Crew Coordinator input, 3 hours of the Project Manager and 3 hours of Quality Control.

A typical **alleyway of 1000 feet** will require 18 hours of field crew, 12 hours of CAD drafting and 3 hours of Crew Coordinator work. Also 2 hours of Project Manager input and 2 hours of Quality Control.

Given our experience and technical capabilities we are confident that our production will exceed the needs and expectations of the CRA.

### EQUIPMENT LIST

#### 12) GPS units:

- Trimble - R8-3 GNSS
- Trimble R8
- (3) Epoch 50
- (7) Spectra Precision SP60



#### (5) Total Stations:

- Topcon GST 225
- Topcon GST 235W
- Topcon GST 303D
- Topcon GST 303D
- Topcon ES-105

#### (6) Levels: G2

- Topcon AT-G2
- Topcon AT-G2
- Topcon RL-H3CL
- Topcon DL-102 Digital
- Nikon Auto-Level AE
- Topcon RL-H3CL Laser Level

#### Vehicles:

- 2014 Ford F150
- 2013 Ford F150
- 2012 Ford F150
- 2009 Ford F150
- 2007 Ford F150
- 12' John Boat

#### Software:

- AutoCAD 2020 Civil 3D
- AutoCAD 2020 LT
- ArcView GIS
- TGO, Microsoft Office Pro'13
- Opus, Adobe Pro DC
- CorpsCon
- VertCon
- CovertToRinex

