

**PALM BEACH COUNTY
BOARD OF COUNTY COMMISSIONERS
AGENDA ITEM SUMMARY**

Meeting Date:	August 25, 2020	<input checked="" type="checkbox"/>	Consent	<input type="checkbox"/>	Regular
		<input type="checkbox"/>	Workshop	<input type="checkbox"/>	Public Hearing

Department: Engineering & Public Works Department
Submitted By: Roadway Production Division
Submitted For: Roadway Production Division

I. EXECUTIVE BRIEF

Motion and Title: Staff recommends motion to approve: a work task order to the Annual Civil Engineering Professional Services Contract (R2019-0716) dated June 4, 2019 (Contract) with Keshavarz & Associates, Inc., (Keshavarz) in the amount of \$194,051.72 for the Hagen Ranch Road from Smith Farm Boulevard to Lantana Road Project.

SUMMARY: Approval of this work task order will provide the professional services necessary to design the roadway widening, drainage improvements, and milling and resurfacing. The contract requires Keshavarz to adhere to 20% Small Business Enterprise (SBE) subcontracting goal as the Affirmative Procurement Initiative. Keshavarz agreed to 98.90% SBE participation for this work task order. Their cumulative SBE participation to date including this work task order is 98.90%. Keshavarz is a Palm Beach County (County) based company and a certified SBE company. District 3 (YBH)

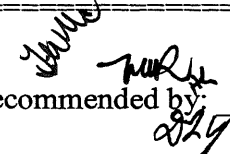
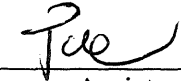
Background and Justification: On June 4, 2019, the Board of County Commissioners (BCC) approved the contract with Keshavarz to provide civil engineering professional services throughout the County. The fee, as detailed in **Exhibit B** of the attached work task order, has been negotiated as just and reasonable compensation as follows:

Basic Services (Lump Sum)	\$161,307.51	(Master Plan Phase, Roadway Design and Plan Prep, Drainage Design and Plan Prep, Signing and Pavement Markings Design and Plan Prep, Utilities, Permitting, Surveying and Meetings.
Reimbursable Services (Not to Exceed)	\$ 20,282.25	(Geotechnical, Permit Fees, Prints)
Optional Services (Not to Exceed)	<u>\$ 12,461.96</u>	(Post Design, Utility Test Holes)
Total:	\$194,051.72	

After reviewing the attached task order for professional services and finding it in proper order, the Engineering Department recommends BCC approval.

Attachments:

1. Location Sketch
2. Work Task Order with Exhibits A, B and C and Ebix Insurance Compliance (2)

Recommended by: 	_____ David Z. Reid County Engineer	27 JULY 2020 _____ Date
Approved By: 	_____ Assistant County Administrator	8/4/20 _____ Date

PROJECT LOCATION

HAGEN RANCH ROAD FROM SMITH FARM BLVD TO LANTANA ROAD

PROJECT NUMBER 2019603



LOCATION SKETCH

**WORK TASK ORDER TO THE
ANNUAL CIVIL ENGINEERING PROFESSIONAL SERVICES CONTRACT
BY AND BETWEEN PALM BEACH COUNTY
AND KESHAVARZ & ASSOCIATES, INC. FOR
HAGEN RANCH ROAD FROM SMITH FARM BLVD. TO LANTANA RD.
PROJECT # 2019603**

This Work Task Order to the Annual Civil Engineering Professional Services Contract (R2019-0716), dated June 4, 2019 (ANNUAL CONTRACT), is made and entered into the _____ day of _____, 20____, by and between Palm Beach County, a political subdivision of the State of Florida, by and through its Board of County Commissioners (COUNTY) and Keshavarz & Associates, Inc. (CONSULTANT) (individually Party and collectively Parties).

WITNESSETH

WHEREAS, the COUNTY and CONSULTANT entered into the ANNUAL CONTRACT on a work task order basis on June 4, 2019 (R2019-0716) as amended on May 5, 2020 (R2020-0401); and

WHEREAS, the COUNTY intends to construct roadway widening on **Hagen Ranch Road from Smith Farm Blvd. to Lantana Rd.**, Project No. **2019603** (PROJECT); and

WHEREAS, the COUNTY desires the CONSULTANT to perform design services for the PROJECT; and

WHEREAS, the CONSULTANT agrees to prepare the design plans and construction bid documents, including related documents required for the PROJECT; and

WHEREAS, the following fee has been negotiated and found to be reasonable compensation for these professional services to be performed by the CONSULTANT:

- Basic Services in a lump sum fee of \$161,307.51
- Reimbursable Expenses capped at \$20,282.25
- Optional Services capped at \$12,461.96
- Totaling \$194,051.72**

NOW, THEREFORE, THIS INDENTURE WITNESSETH: That for and in consideration of the mutual benefits to flow from each to the other, the Parties hereto agree as follows:

The above recitals are true and correct and are incorporated herein.

The following Exhibits are attached to and made a part of this Work Task Order.

Exhibit A - Scope of Work including Work Schedule

Exhibit B - Fee Schedule

Exhibit C – OEBO Schedules 1 and 2

The COUNTY agrees to pay the CONSULTANT a fee of One Hundred Ninety Four Thousand Fifty One Dollars and Seventy Two Cents (\$194,051.72) for this Work Task Order.

REMAINDER OF PAGE LEFT BLANK INTENTIONALLY

IN WITNESS WHEREOF, the Board of County Commissioners of Palm Beach County, Florida has made and executed this Work Task Order for the PROJECT, pursuant to the ANNUAL CONTRACT, as amended, on behalf of the COUNTY, and CONSULTANT has hereunto set its hand the day and year above written.

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

CONSULTANT:
Keshavarz & Associates, Inc.

BY: _____
Dave Kerner, Mayor

BY: _____
Mark A. Williams, P.E., Senior Vice President

S E A L

CORPORATE SEAL

ATTEST:
Sharon R. Bock, Clerk & Comptroller
Circuit Court

ATTEST WITNESS:

BY: _____
(Deputy Clerk)

BY: Deborah L. Fulgenzi
(Print Name)

(Signature)

APPROVED AS TO TERMS AND CONDITIONS:

BY: Leidy Carolina Zuluaga
(Print Name)

(Signature)

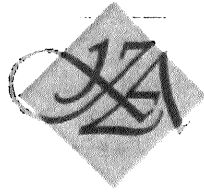
BY: Morton L. Rose
Morton L. Rose, P.E.
Director of Roadway Production

APPROVED AS TO FORM & LEGAL SUFFICIENCY:

BY: _____
Yelizaveta B. Herman,
Assistant County Attorney

Scope & Fee OK.
JAY
7-1-20

Exhibit A
6/17/2020
Rev, 6/29/2020
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SCOPE OF SERVICES

Hagen Ranch Road from Smith Farm Boulevard to Lantana Road Palm Beach County Project No. 2019603

PROJECT LIMITS

Keshavarz and Associates, Inc. (K&A) will provide civil engineering and surveying services required in connection with the proposed improvements to Hagen Ranch Road from Smith Farm Boulevard to 350 feet south of Lantana Road.

PROJECT DESCRIPTION

Preparation of roadway construction plans including limited drainage, grading, paving, curb, sidewalk and signing and pavement marking to improve the traffic flow through and adjacent to Coral Reef Elementary School.

The project consists of the following improvements:

1. Widening the existing roadway to a fully paved section (80' wide right-of-way), with one (1) travel lane in each direction, lengthen the existing turn lanes and widening of shoulders from Smith Farm Boulevard north to the approach to Lantana Road, approximately 350' south of the intersection.
2. Portions of the existing sidewalks may have to be replaced as a part of this project. Based on our review of preliminary data on the roadway, there is about 700' of asphalt sidewalk that will need to be replaced and about 300' of concrete sidewalk that will need to be replaced in the superelevated portion of the roadway based on the existing elevations. Special gutter line profiles may also be required in an attempt to preserve sidewalk that is marginal in profile grade.
3. Damaged or broken curb and sidewalk will be reviewed in the field and repairs/replacements included as part of this project.
4. The existing pavement cross sections will need to be modified as part of the milling and overlay work to comply with the design typical section cross slopes. Special attention will be needed in the superelevated portion of the roadway. Additional milling depth or additional pavement thickness is anticipated in various areas of the project.
5. Installation of exfiltration trench(es), north of the LWDD L-16 Canal for water quality treatment of added impervious areas.
6. Mill and resurfacing of the existing pavement within the limits of construction.
7. Relocation of signage and installation of pavement markings for the proposed roadway configuration.

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



- Palm Beach County Roadway Design Procedures (1/2019)
- Palm Beach County Thoroughfare Roads Typical Sections (4/2018)
- Palm Beach County Typical for Pavement Markings, Signing & Geometrics (No. T-P-18; 4/2018)
- FDOT Design Manual (2019 FDM)
- Manual of Uniform Minimum Standards for Design, Construction and Maintenance "Florida Greenbook" (2018; proposed for 2019)

BASIC SERVICES

1. Roadway Design & Plan Preparation

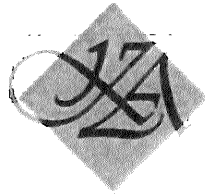
Roadway plans with aerial background will be prepared in accordance with the approved Typical Section and the approved master plan.

Construction plans will be prepared on 11"x17" at a 1"=40' scale for the horizontal and 1"= 4' for the vertical. Separate plan and profile sheets will be prepared.

The following sheets are anticipated:

- Cover Sheet
- General Notes
- Typical Sections
- Miscellaneous Details (Drainage control structures, existing drainage structure modifications, exfiltration trench, etc.)
- Summary of Pay Items
- Reference Points
- Project Network Control Sheets
- Roadway Plans & Profiles (Existing drainage structures will be shown on profiles north of the L-16 Canal only)
- Cross Sections (Depicting existing pavement sections, milling and overlay depths and full pavement section widening including stabilized subgrade depths and LBR/FBV values. Also denoting existing curb and sidewalk replacement)
- Signing and Pavement Marking Plans

In areas where new sidewalk may be proposed adjacent to existing curb and gutter south of the intersection of Journey's End, grading, restoration and disturbance beyond the right of way line is anticipated and any restoration or right to enter agreements, etc. with the adjacent property owners is assumed to be addressed by Palm Beach County. Impacts to existing vegetation has not been considered relative to replacement, mitigation, root barrier installation or any irrigation relocation and repairs required to accomplish the sidewalk installation.



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The following plan submittals will be included: master plan, 35%, 65%, 96%, 100% and Final. Plan submittals will include 1 hard copy and all electronic files.

2. Drainage Design & Plan Preparation

Additional exfiltration trenches will be required north of the LWDD L-16 Canal for water quality treatment for the added impervious area. The drainage plans will be designed in conformance with SFWMD and LWDD regulations. A drainage report will be prepared to summarize the proposed improvements depicting the proposed calculations. Exfiltration trench detail(s) will be prepared and included with the construction plans.

The hydraulic pipe sizing calculations for the roadway will be reviewed to verify if the ultimate roadway design was included with the existing pipe sizes and if there are any additional areas draining to the roadway that may affect the pipe sizing and hydraulic capacity of the drainage system. The limits of the drainage areas will be verified and updated as necessary. The pipe sizes as shown on the original construction plans will be used for the drainage calculations.

Note that the existing drainage pipe sizes are assumed to be adequate to meet the design criteria for the roadway and that the pipe sizes do not need to be changed. Changes to the pipe sizes have not been included in the scope of work for this project. We have assumed that the existing drainage structures in the areas that are being widened are located based on the ultimate roadway section and the structures and pipes will not require relocation.

3. Signing and Pavement Markings Design & Plan Preparation

Pavement Marking and Signing Plans will be prepared to conform to the proposed roadway improvements in accordance with Palm Beach County Standards. These plans will be prepared as a separate set of documents and include:

- Cover Sheet
- General Notes
- Summary of Quantities
- Plan Sheets
- Signing and Pavement Marking Detail(s)

The existing lighted school speed limit warning signs are assumed to be able to be relocated and that no design for electrical work, conduits, etc. will be required and that the foundations for these pole mounted signs are adequate and can be re-used. The signs are also assumed to be able to be located behind the sidewalk.

4. Utility Coordination



K&A will assist Palm Beach County in the utility coordination efforts as follows:

- Attend up to 2 utility coordination meetings, prepare meeting minutes and follow up on action items.
- Plat utility information on plans for inclusion in the construction plan package.
- Prepare utility conflict matrix and coordinate with utility owners through Palm Beach County.

5. Permitting

Preparation of applications and supporting exhibits and documents for submittal to the following regulatory agencies for modifications to the existing drainage permits:

- South Florida Water Management District (SFWMD)
- Lake Worth Drainage District (LWDD)

Includes responses to requests for additional information for the regulatory agencies, correspondence and coordination throughout the permitting process.

6. Meetings

The following meetings are anticipated throughout the design process:

- 5 progress meetings with County for Project Manger
- 1 meetings with Coral Reef Elementary School for Project Manager
- 1 pre-application meeting with SFWMD for Project Manager
- 1 pre-application meeting with LWDD for Project Manager

7. Deliverables

7.1. Initial Utility Contact Plans (PDF)

7.2. Master Plan (11x17 & PDF)

7.3. 35% Submittal

7.3.1. 35% Plans as applicable per PBC Roadway Design Procedures (11x17, PDF, CADD)

7.3.2. Preliminary Specific Purpose Survey (24x36 & PDF)

7.3.3. List of Required Permits

7.3.4. Geotech and Soil Survey

7.3.5. Project Progress Report

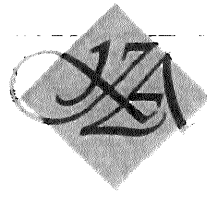
7.3.6. Red-lined plans from Master Plan Review

7.3.7. Responses to Comments Letter

7.4. 65% Submittal

7.4.1. 65% Plans as applicable per PBC Roadway Design Procedures (11x17, PDF, CADD)

7.4.2. Final Specific Purpose Survey (24x36 & PDF)



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- 7.4.3. Preliminary Cost Estimate
- 7.4.4. Project Progress Report
- 7.4.5. Red-lined plans from 35% Review
- 7.4.6. Responses to Comments Letter
- 7.5. 96% Submittal
 - 7.5.1. 96% Plans as applicable per PBC Roadway Design Procedures (11x17, PDF, CADD)
 - 7.5.2. Quantity Computation Book
 - 7.5.3. Engineers Cost Estimate
 - 7.5.4. Project Progress Report
 - 7.5.5. Red-lined plans from 65% Review
 - 7.5.6. Responses to Comments Letter
- 7.6. 100% Submittal
 - 7.6.1. 100% Plans as applicable per PBC Roadway Design Procedures (11x17, PDF, CADD)
 - 7.6.2. All Permits Received
- 7.7. Final Submittal
 - 7.7.1. Signed & Sealed Set of Final Construction Plans (1- 11x17 copy)
 - 7.7.2. Final Construction Plans (3 – 11x17 copies & PDF)
 - 7.7.3. Final Cost Estimate
 - 7.7.4. Excel File of Pay Items
 - 7.7.5. Final Specific Purpose Survey (24x36, signed and sealed)
 - 7.7.6. Signed & Sealed Geometric Computation Book
 - 7.7.7. Signed & Sealed Drainage Computation Book
 - 7.7.8. Signed & Sealed Quantity Computation Book
 - 7.7.9. All Electronic Files
 - 7.7.10. All Permits

8. Survey

Refer to the attached Survey Limits map. The Specific Purpose/Topographic Survey will be done in accordance with the current State of Florida Standards of Practice, the applicable portions of the Palm Beach County Roadway Design Procedures (1/2019) and all County requirements.

- 8.1. Review a title search provided by Palm Beach County. Research and obtain plats and deeds from the Palm Beach County Property Appraiser's website to establish the existing right-of-way and compile the data into a base map. Consultant will advise the County of



any apparent missing right-of-way documentation or of any apparent gaps or overlaps in the right-of-way per the documents provided.

- 8.2. Prepare a drawing showing the linework, width, and recording information of the right-of-way and easement documents provided by Palm Beach County and submit the drawing to the county for review and confirmation of the existing rights-of-way.
- 8.3. Collect horizontal global positioning control monumentation and set control points every 600'± tied to Florida East Zone State Plane Coordinates (NAD 83, 1990 adjustment).
- 8.4. Collect published vertical benchmarks, run a closed level loop, and set benchmarks outside the limits of construction (NAVD 1988 datum) every 600'±.
- 8.5. Locate subdivision corners, section corners, and other existing control monuments that will assist in the determination of the location of the right-of-way lines and platted centerlines. Identify the existing control recovered and provide ties to the project baseline.
- 8.6. Locate above ground features with elevations (including walks, utilities, signage, striping, etc.) within the right-of-ways and 5' beyond the right-of-way.
- 8.7. Cross-section the right-of-ways at 100' intervals extending 5' outside the right of way (or stopping at any walls). Additional sections will be acquired at Angela Drive and Smith Farm Boulevard as needed for design purposes.
- 8.8. Locate the existing traffic signal poles.
- 8.9. Locate trees within the right-of-way and 5' beyond right-of-way having a DBH of 4" or greater with size and type.
- 8.10. Obtain grate elevation at edge of pavement of the existing drainage structures within the right-of-way. Obtain inverts elevations and bottom of drainage structures with pipe sizes and materials for those structures lying north of the L-16 canal; confirm structure geometry per original construction plans/record drawings; locate any drainage outfalls and/or connection culverts. Note that existing drainage pipes south of the L-16 canal will be located horizontally and a grate elevation obtained but no invert elevations or pipe sizes will be verified in the field unless proposed modifications are anticipated at these existing drainage structures. We will assume that the pipe sizes and invert elevations shown on the original construction plans are adequate for design purposes.



- 8.11. Prepare a DTM (digital terrain model) of the site.
- 8.12. Establish a baseline along Hagen Ranch Road. Determine historical baselines from available PBC plans (provided by PBC) and tie to new baseline if different. Set baseline horizontal control points at begin, PC, PT, and end points. Set reference points to the baseline points; the baseline of survey will be established with the horizontal & vertical control points being referenced by station and offset to baseline of construction as established on the ground.
- 8.13. Prepare a Specific Purpose Survey consisting of:
- labeled right-of-ways, easements, and adjacent parcels
 - existing features mentioned above with spot elevations on 11"x17" sheets at a scale of 1"=40'
 - PBC published section corners and/or control monuments tied to baseline begin and end
 - found subdivision corners and/or other existing control monuments identified and tied to the baseline
 - control points (horizontal and vertical) set every 600'± outside of the baseline
 - drainage structure rim and invert data and apparent pipe connections north of the L-16 canal
 - monumentation set at the baseline points
 - map of survey to be provided and signed and sealed by the surveyor
- 8.14. Prepare Project Network Control Sheet (to include baseline data, PBC control monuments, baseline monumentation, control points/benchmarks, notes, legend, etc.), and Reference Point Sheet to be included in plan set.

SURVEY DELIVERABLES

1. Map of right-of-way and easement documents (11"x17" sheets, 1"=40' scale).
2. Specific Purpose Survey (11"x17" sheets, 1"=40' scale).
3. CADD file MicroStation compatible (original file will be in AutoCAD)
4. An ASCII file of points in terms of x,y,z, description.
5. A DTM in XML format

9. Reimbursable Services

- 9.1. Geotechnical Services



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The Geotechnical Services will be conducted by Radise International, LC. K&A will coordinate the needed services for the roadway borings. Hydraulic conductivity tests will also be a part of the services (see attached scope of services from Radise).

10. Optional Services

10.1. Subsurface Utility Engineering (SUE)

Obtain the locations of potential utility conflicts by conducting up to 5 test holes to determine horizontal and vertical information of the existing utilities as required. K&A will coordinate the needed services with InfraMap.

10.2. Post Design Services

K&A will provide post design services as needed during the construction phase.

10.3. Sketch & Legal Description

K&A will prepare sketches and legal descriptions for easement purposes on an as needed basis.



Hagen Ranch Road from Smith Farm Boulevard to Lantana Road

Palm Beach County Project No. 2019603

PROJECT SCHEDULE

<i>Engineering Services</i>	<i>Completion Date from Notice to Proceed (Calendar Days)</i>
Phase I	
<i>A – Initial Utility Contact Plans</i>	15
<i>B – Typical Sections</i>	15
<i>C – Master Plan</i>	30
<i>D – 35% Submittal</i>	75
Phase II	
<i>A – Utility Pothole Coordination Plans</i>	105
<i>B – Utility Coordination Meeting</i>	105
<i>C – Pothole Underground Utilities</i>	125
<i>D – 65% Submittal</i>	150
<i>E – All permits applied for</i>	160
Phase III	
<i>A – Utility Conflict Resolution Plans</i>	190
<i>B – Utility Coordination Meeting</i>	190
<i>C – 96% Submittal</i>	235
Phase IV	
<i>A – 100% Submittal</i>	280
<i>B – Final</i>	300
Total Anticipated Duration	300 Calendar Days

**Estimate of Work Effort and Cost
Prime Consultant**

Name of Project:		Hagen Ranch Road (Smith Farm Blvd - Lantana Rd)					Consultant Name:		Keshavarz		
PBC Project Number:		2019603					Consultant Number:		19-1276		
							Date:		6/17/2020, rev. 6/29/2020		
Task Description	Total Staff Hours	Staff Categories							Staff Hours By Activity	Salary Cost By Activity	Average Rate Per Task
		Principal Engineer	Project Manager	Project Engineer	CADD Designer	Chief Surveyor	Surveyor & Mapper	Survey Crew (2 man)			
		\$70.38 ✓	\$66.95 ✓	\$48.10 ✓	\$31.93 ✓	\$51.50 ✓	\$48.28 ✓	\$47.38 ✓			
BASIC SERVICES											
1 Master Plan Phase	156	18	48	42	48				156	\$8,033.28	\$51.50
2 Roadway Design & Plan Prep	332	26	66	105	135				332	\$15,609.63	\$47.02
3 Drainage Design & Plan Prep	159	13	34	62	50				159	\$7,769.94	\$48.87
4 Signing & Pavement Markings Design & Plan Prep	109	11	13	34	51				109	\$4,908.36	\$45.03
5 Utilities	49	9	14	16	10				49	\$2,659.62	\$54.28
6 Permitting	69	7	24	24	14				69	\$3,700.88	\$53.64
7 Surveying	217				80	29	38	70	217	\$9,199.14	\$42.39
8 Meetings	28	4	24						28	\$1,888.32	\$67.44
Total Staff Hours (Basic Services)	1119 ✓	88	223	283	388	29	38	70	1119 ✓		
Total Staff Cost (Basic Services)		\$6,193.44 ✓	\$14,929.85 ✓	\$13,612.30 ✓	\$12,388.84 ✓	\$1,493.50 ✓	\$1,834.64 ✓	\$3,316.60 ✓		\$53,769.17 ✓	\$48.05
OPTIONAL SERVICES											
1 Post Design Services	40		40						40	\$2,678.00	\$66.95
2 Easements	3.5					0.5	3		3.5	\$170.59	\$48.74
3 SUE Coordination and Acquisition	13		2	2	4		1	4	13	\$595.62	\$45.82
Total Staff Hours (Optional Services)	56.5 ✓	0	42	2	4	0.5	4	4	56.5		
Total Staff Cost (Optional Services)		\$0.00 ✓	\$2,811.90 ✓	\$96.20 ✓	\$127.72 ✓	\$25.75 ✓	\$193.12 ✓	\$189.52 ✓		\$3,444.21 ✓	\$60.96
										Basic Services:	
										Salary Related Costs:	\$53,769.17 ✓
										Contract Multiplier	3.00
										Basic Services Total:	\$161,307.51 ✓
Reimbursables:											
										RADISE International, LC	\$15,835.25 ✓
										Keshavarz & Associates (Printing, other)	\$1,947.00 ✓
										Keshavarz & Associates (Permit Fees)	\$2,500.00 ✓
										Reimbursables Total:	\$20,282.25 ✓
Optional Services:											
										Keshavarz & Associates (unloaded)	\$3,444.21 ✓
										Keshavarz & Associates (after multiplier applied)	\$10,332.63 ✓
										InfraMap (SUE Test Holes)	\$2,129.33 ✓
										Optional Services Total:	\$12,461.96 ✓
										Grand Total Estimated Fees:	\$194,051.72 ✓

**Estimate of Work Effort and Cost
Prime Consultant**

Name of Project:		Hagen Ranch Road (Smith Farm Blvd - Lantana Rd)				Consultant Name: Keshavarz		
PBC Project Number:		2019603				Consultant Number: 19-1276		
						Date: 6/17/2020, rev. 6/29/2020		
Task Description	Comments	Total Staff Hours	Staff Categories					
			Principal Engineer	Project Manager	Project Engineer	CADD Designer		
MASTER PLAN PHASE								
1	Typical Sections	(2) sections, typical section and approach to Lantana Road	46	6	8	8	24	
2	Master Plan	Map of ex. R/W, historic baseline control & R/W monumentation, layout of proposed improvements, no access management issues anticipated	50	6	10	10	24	
3	Field Review	1 Field Review	16	0	8	8	0	
4	Preliminary Roadway Analysis	Review geometrics, turn lane requirements, lane transitions	23	3	12	8	0	
5	Preliminary Drainage Analysis	SFWMD Research, WQ Provisions	21	3	10	8	0	
Total Staff Hours (Basic Services)			156 ✓	18 ✓	48 ✓	42 ✓	48 ✓	

**Estimate of Work Effort and Cost
Prime Consultant**

Name of Project:		Hagen Ranch Road (Smith Farm Blvd - Lantana Rd)				Consultant Name: Keshavarz	
PBC Project Number:		2019603				Consultant Number: 19-1276	
						Date: 6/17/2020, rev. 6/29/2020	
Task Description	Comments	Total Staff Hours	Staff Categories				
			Principal Engineer	Project Manager	Project Engineer	CADD Designer	
ROADWAY DESIGN							
1 Typical Sections	Included in Master Plan Phase	0	0	0	0	0	
2 Cross-Slope Correction		18	2	6	6	4	
3 Horizontal / Vertical Master Design Files	Based on 16 hours per sheet	80	5	15	30	30	
4 Cross Section Design Files	30 sections	46	4	8	16	18	
5 Design Variations and Exceptions	Cross slope issues, curb line grades, ex. PGL, etc.	8	2	4	2	0	
6 Design Documentation	1 Report - To accompany final submittal	8	2	4	2	0	
7 Quantities	0.5 miles of computations, hatching of pavement, sod, concrete	42	4	10	16	12	
8 Cost Estimates	Submitted at 96% and 100% Plans	10	2	4	4	0	
9 Field Reviews	1 Field Review	8	0	4	4	0	
Total Staff Hours (Roadway Design)		220 ✓	21 ✓	55 ✓	80 ✓	64 ✓	
ROADWAY PLANS							
1 Key Sheet		6	0	1	1	4	
2 Approved Typical Sections (Sections and Details)		20	0	1	7	12	
3 General Notes/Pay Item Notes		16	2	2	6	6	
4 Summary of Quantities Sheets		8	1	1		6	
5 Plan/Profile Sheet	5 sheets with Curb line Profiles	26	1	4	6	15	
6 Driveway Profiles	No required	0	0	0	0	0	
7 Roadway Soil Survey Sheet(s)	Provided by Geotechnical Sub-Consultant	5	0	0	1	4	
8 Cross Sections	30 Cross Sections, including Soil Profiles	27	1	2	4	20	
9 Project Network Control Sheet(s)	Included with Survey	4	0	0	0	4	
Total Staff Hours (Roadway Plans)		112 ✓	5 ✓	11 ✓	25 ✓	71 ✓	
Total Roadway Design & Plans		332 ✓	26 ✓	66 ✓	105 ✓	135 ✓	

**Estimate of Work Effort and Cost
Prime Consultant**

Name of Project:		Hagen Ranch Road (Smith Farm Blvd - Lantana Rd)				Consultant Name: Keshavarz		
PBC Project Number:		2019603				Consultant Number: 19-1276		
						Date: 6/17/2020, rev. 6/29/2020		
Task Description	Comments	Total Staff Hours	Staff Categories					
			Principal Engineer	Project Manager	Project Engineer	CADD Designer		
DRAINAGE DESIGN								
1	Drainage Map Hydrology	20	2	4	6	8		
2	Pipe Sizing Hydraulic Analysis	36	4	8	20	4		
3	Design of Stormwater Management Facilities	17	1	4	6	6		
4	Design of Storm Drains	30	2	8	12	8		
Total Staff Hours (Drainage Design)		103 ✓	9 ✓	24 ✓	44 ✓	26 ✓		
DRAINAGE PLANS								
1	Drainage Map	24	2	4	6	12		
2	Miscellaneous Drainage Detail Sheets	10		2	4	4		
3	SWPPP Sheet(s)	22	2	4	8	8		
Total Staff Hours (Drainage Plans)		56 ✓	4 ✓	10 ✓	18 ✓	24 ✓		
Total Drainage Design & Plans		159 ✓	13 ✓	34 ✓	62 ✓	50 ✓		

**Estimate of Work Effort and Cost
Prime Consultant**

Name of Project:		Hagen Ranch Road (Smith Farm Blvd - Lantana Rd)				Consultant Name: Keshavarz		
PBC Project Number:		2019603				Consultant Number: 19-1276		
						Date: 6/17/2020, rev. 6/29/2020		
Task Description	Comments	Total Staff Hours	Staff Categories					
			Principal Engineer	Project Manager	Project Engineer	CADD Designer		
SIGNING AND PAVEMENT MARKING DESIGN								
1 Reference and Master Design File	CADD setup and design	40	4	5	6	25		
2 Quantities	5 sheets	16	2	2	8	4		
3 Cost Estimate		7	1	2	4	0		
Total Staff Hours (Signing and Pavement Marking Design)		63 ✓	7 ✓	9 ✓	18 ✓	29 ✓		
SIGNING AND PAVEMENT MARKING PLANS								
1 Key Sheet		8	1	1	2	4		
2 Tabulation of Quantities	1 sheet	18	1	1	8	8		
3 Plan Sheet	5 sheets	20	2	2	6	10		
Total Staff Hours (Signing and Pavement Marking Plans)		46 ✓	4 ✓	4 ✓	16 ✓	22 ✓		
Total Signing and Marking Design & Plans		109 ✓	11 ✓	13 ✓	34 ✓	51 ✓		

**Estimate of Work Effort and Cost
Prime Consultant**

Name of Project:		Hagen Ranch Road (Smith Farm Blvd - Lantana Rd)					Consultant Name: Keshavarz		
PBC Project Number:		2019603					Consultant Number: 19-1276		
							Date: 6/17/2020, rev. 6/29/2020		
Task Description	Comments	Total Staff Hours	Staff Categories						
			Principal Engineer	Project Manager	Project Engineer	CADD Designer			
UTILITIES									
1	Utility Kickoff Meeting	Includes preparation of meeting summary	4	0	4	0	0		
2	Identify Existing Utility Agency Owners (UAO(s))	5 UAO Anticipated, Design Ticket, Existing Plans	13	1	2	10	0		
3	Make Utility Contacts	5 UAO Anticipated, Includes Sending Plans to UAO and Prepare Utility Conflict Matrix	6	1	1	4	0		
4	Collect and Review Plans and Data from UAO(s)	Depict Existing Utilities on plans	14	1	1	2	10		
5	Utility Design Meeting	Includes preparation of meeting summary	8	4	4	0	0		
6	Utility Coordination/Follow-up		4	2	2	0	0		
Total Staff Hours (Utilities)			49 ✓	9 ✓	14 ✓	16 ✓	10 ✓		

**Estimate of Work Effort and Cost
Prime Consultant**

Name of Project:		Hagen Ranch Road (Smith Farm Blvd - Lantana Rd)				Consultant Name: Keshavarz		
PBC Project Number:		2019603				Consultant Number: 19-1276		
						Date: 6/17/2020, rev. 6/29/2020		
Task Description	Comments	Total Staff Hours	Staff Categories					
			Principal Engineer	Project Manager	Project Engineer	CADD Designer		
PERMITTING								
1 SFWMD permit application, exhibits, coordination, RFIs, etc.	Permit Modification	45	5	16	16	8		
2 LWDD permit application, exhibits, coordination, RFIs, etc.	Permit Modification	24	2	8	8	6		
Total Staff Hours (Permitting)		69 ✓	7 ✓	24 ✓	24 ✓	14 ✓		

**Estimate of Work Effort and Cost
Prime Consultant**

Name of Project:		Hagen Ranch Road (Smith Farm Blvd - Lantana Rd)				Consultant Name: Keshavarz			
PBC Project Number:		2019603				Consultant Number: 19-1276			
						Date: 6/17/2020, rev. 6/29/2020			
Task Description	Total Staff Hours	Staff Categories							
		Chief Surveyor	Surveyor & Mapper	Survey Crew (2 man)	CADD Designer				
SURVEY									
8.1 Title / plat review	7	7	0	0	0				
8.2 Right-of-Way Map preparation	46	6	16	0	24				
8.3 Collect and set horizontal control	10	2	0	8	0				
8.4 Collect and set vertical control	10	2	0	8	0				
8.5 Locate section corners and other control monuments	14	2	0	12	0				
8.6 Locate ground features	16	0	0	16	0				
8.7 Topographic Cross-sections at 100' intervals	12	0	0	12	0				
8.8 Locate existing traffic signal poles (included with 1.6)	0	0	0	0	0				
8.9 Locate trees (DBH 4" or more) (included with 1.6)	0	0	0	0	0				
8.10 Obtain ex. drainage grates and inverts (where applicable)	6	0	0	6	0				
8.11 Prepare DTM	9	1	8	0	0				
8.12 Establish baseline	17	1	0	8	8				
8.13 Preparation of Specific Purpose Survey	56	6	10	0	40				
8.14 Preparation of Project Network Control Sheet	14	2	4	0	8				
Total Staff Hours (Survey)	217 ✓	29 ✓	38 ✓	70 ✓	80 ✓				

**Estimate of Work Effort and Cost
Prime Consultant**

Name of Project:		Hagen Ranch Road (Smith Farm Blvd - Lantana Rd)				Consultant Name:		Keshavarz	
PBC Project Number:		2019603				Consultant Number:		19-1276	
						Date:		6/17/2020, rev. 6/29/20	
Task Description	Comments	Total Staff Hours	Staff Categories						
			Principal Engineer	Project Manager	Project Engineer	CADD Designer			
MEETINGS									
1	Progress/Design Meetings with County	3 project manager meetings with County, included preparation of meeting summaries	12	0	12	0	0		
2	Meetings with Coral Reef Elementary School	2 meetings, includes preparation of meeting summaries	10	4	6	0	0		
3	Pre-application meeting with SFWMD and LWDD		6	0	6	0	0		
Total Staff Hours (Meetings)			28 ✓	4 ✓	24 ✓	0	0		

**Estimate of Work Effort and Cost
Prime Consultant**

Name of Project:		Hagen Ranch Road (Smith Farm Blvd - Lantana Rd)				Consultant Name:		Keshavarz				
PBC Project Number:		2019603				Consultant Number:		19-1276				
						Date:		6/17/2020, rev. 6/29/2020				
Task Description	Comments	Total Staff Hours	Staff Categories									
			Principal Engineer	Project Manager	Project Engineer	CADD Designer	Chief Surveyor	Surveyor & Mapper	Survey Crew (2 man)			
OPTIONAL SERVICES												
1	Post Design Services	Responses to RFI, Miscellaneous Construction Phase Services as needed and requested by PBC	40	0	40	0	0	0	0	0		
2	Easements	Preparation of Sketch and Legal Descriptions (per each)	3.5	0	0	0	0	0.5	3	0		
3	SUE Coordination and Acquisition	Coordinate SUE, acquire topographic information of test holes and to plans	13	0	2	2	4	0	1	4		
Total Staff Hours (Optional Services)			56.5	0	42	2	4	0.5	4	4		

Date: 6/17/2020, rev. 6/29/2020

**Estimate of Work Effort and Cost
Prime Consultant**

Name of Project:		Hagen Ranch Road (Smith Farm Blvd - Lantana Rd)		Consultant Name: Keshavarz		
PBC Project Number:		2019603		Consultant Number: 19-1276		
				Date: 6/17/2020, rev. 6/29/2020		
Projected Reimbursable Expenses						
		Projected Quantity	Unit Cost	Project Cost		
DIRECT EXPENSES						
1	Bond Copies/Black line/Blueprints (24x36)	100	\$1.00	\$100.00	✓	
2	Bond Copies/Black line/Blueprints (11x17)	500	\$0.50	\$250.00	✓	
3	Plot Media (11x17 color)	0	\$12.00	\$0.00		
4	Plot Media (24x36 color)	0	\$50.00	\$0.00		
5	8.5x11 Print	600	\$0.25	\$150.00	✓	
6	8.5x11 Print (color)	0	\$2.00	\$0.00		
7	CAD Drawing Files/Digital Transmission	1	\$50.00	\$50.00	✓	
8	Mileage	650	\$0.58	\$377.00	✓	
9	Deliveries	12	\$60.00	\$720.00	✓	
10	Other Supplies	1	\$300.00	\$300.00	✓	
Total Fee (Direct Expenses)				\$1,947.00	✓	
PERMITTING FEES						
1	SFWMD ERP Permit Modification	1	\$1,000.00	\$1,000.00	✓	
2	LWDD Permit Modification	1	\$1,500.00	\$1,500.00	✓	
Total Fee (Permitting Fees)				\$2,500.00	✓	



Date: June 13, 2019
(Revised June 29, 2020)

Presented to: Keshavarz & Associates
711 North Dixie Highway, Suite 201
West Palm Beach, FL 33401
Phone No.: 561-689-8600

Attn: Randy Wertepny, P.E.

Project name: Hagen Ranch Road from Smith Farm Blvd to Lantana Road.
Test Hole Services

As requested, InfraMap Corporation (IMC) has prepared this proposal for utility infrastructure investigation services for the above referenced project. This proposal is based upon the best information available to InfraMap regarding site conditions at the time of writing. This proposal does not represent a lump sum fee to perform these services. The proposed fee will not be exceeded without the expressed consent of the client.

Project limits and description: Perform up to four (4) test holes along Hagen Ranch Road, location of test holes will be chosen by client.

Services to be provided: Test hole services as described in attachment "A".

Notes: Survey by others.

<u>FEE SCHEDULE</u>	<u>ESTIMATED FEE</u>	
<u>Test Hole Services</u>		
<i>Project Manager/PE, LS: \$150.59/hr.</i>	<u># Hours/Units</u> 1	\$ 150.59 ✓
<i>Utility Location Manager: \$98.74/hr.</i>	1	\$ 98.74 ✓
<i>Air/Vacuum Test Hole: \$412.50/ea.</i>	4	\$ 1,650.00 ✓
<u>TOTAL ESTIMATED FEE (4 Test Holes @ \$474.83/ea)</u>		\$ 1,899.33 ✓
<u>Optional Services</u>		
<i>Permit actual cost (if/as needed)</i>	1	\$ 150.00 ✓
<i>Arrow Board: \$80.00 /day (if/as needed)</i>	1	\$ 80.00 ✓
<u>TOTAL ESTIMATED FEE</u>		\$ 2,129.33 ✓

Complete Utility Infrastructure Surveying and Mapping Since 1987

Attachment A

SUBSURFACE UTILITY LOCATING BY AIR/VACUUM TEST HOLE SERVICE

The intent of the proposed test hole service is to provide the actual horizontal and vertical location of existing utilities or structures at the point of interest by air/ vacuum excavation to facilitate the identification and resolution of potential design conflicts and aid in the protection of these facilities during construction.

Tasks:

1. Request records from utility owning agencies as appropriate.
2. Supply qualified personnel and provide them with the resources, transportation and field supplies to perform the requested services.
3. Coordinate with the client to determine what test holes are needed and their expected locations.
4. Coordinate with inspectors, property owners, "ONE CALL" and others as required. Comply with all laws and regulations concerning excavation. Obtain all permits needed to perform the test holes.
5. Determine in the field the actual location of the proposed improvements in possible conflict with existing utilities. This shall be accomplished by using the plan supplied by the client.
6. At the approximate point of possible conflict with the proposed improvement, excavate a test hole using air/ vacuum excavation. Provide all measurements necessary to perform the work safely and to cause no damage to the utility structure. The test hole will be of the minimum size required to expose the utility of interest and record the following information:
 - a. Depth below grade (cover).
 - b. Utility material, shape and overall condition.
 - c. Approximate diameter of pipes, cables, conduits and the configuration of multiple conduit systems.
 - d. The general directional trend of the utility.
 - e. Thickness, type and condition of paving material.
 - f. General soil conditions.
7. Install a permanent survey marker directly over the centerline of pipes or edge of concrete structures or conduit banks at grade. Indicate on the Test Hole Form the placement of the marker relative to the utility cross section.
8. Backfill test hole with excavated material in 6" lifts by air pneumatic tamping. Soil placed within 1 foot of the exposed utility will be clean and tamped carefully. Backfill materials will be adequately compacted to prevent later subsidence of the test hole. Provide select backfill materials, such as insulating sands and gravels, when needed. Restore test hole area to original condition. Ribbon of appropriate APWA/ULCC color will be installed in the backfill from utility to grade.
9. Repair and restore all pavement cuts to insure a long lasting, permanent repair using our standard cold patch method. Guarantee patch for 1 year and return to repair within that time if test hole sinks more than ½" below original grade (permanent marker). In the event that the permitting agency does not accept cold patch as permanent repair, the cost to restore the pavement to the satisfaction of the permitting agency will become a cost over and above the estimate.
10. Record the location of the permanent marker with a minimum of three (3) swing tie measurements to convenient existing permanent structures on site.
- 10a. (Optional - See Scope Statement) Survey test hole locations with a total station survey instrument and data collector relevant to the client provided project control. Process survey locations to provide northing, easting and grade/ utility elevations. Generate stations and offset for the test holes if baseline geometry is provided.
11. Cad Test Hole Forms. Also, provide a Test Hole Inventory report to list numerically the test holes completed/ attempted.
12. Technical limitations of small hole Air/Vacuum excavation:

In order to provide a cost effective service that causes minimal disturbance to site amenities and utilities, and is acceptable to permitting agencies, the size of the test hole excavation is kept to a minimum. A nominal size of 64 square inches (8" x 8") is the assumed size of the average test hole. Given this size excavation, the following limitations are stated for the benefit of the designer in choosing test hole locations.

- a. The bottom/invert of pipes and large diameter cables and conduits is not directly available in most test holes. The point of measurement of these utilities is typically the crown or shallowest point on the utility. Invert information is derived from crown cover plus diameter.
- b. The diameter of most pipes greater than 24" cannot be recovered directly from a single test hole. The diameter of pipes less than 24" is determined by exposing half or the entire pipe, as needed, and directly

measuring the outside diameter with a rule to the nearest 1/2". If pipe diameter is critical on larger than 24" pipes, it may be necessary to perform additional holes. This type of investigation falls outside of the normal scope of test hole services.

- c- Encased systems and non-encased conduit banks are typically exposed on one edge. This allows the test hole to be excavated down the side of the utility until a discernable bottom edge can be evaluated. Although it is usually possible to determine the bottom edge of these systems, it is not possible to determine conditions under these or other utility systems, such as concrete overpour and other utilities. It is important for the designer to remember that the bottom edge of an encased system or unencased conduit bank may not represent its lowest point, and that the shape of the system may not be the same on both sides. The width of these systems may not be determined from a single test hole. Encased systems and unencased conduit banks may require two test holes to document the width (and both sides top and bottom elevations).

Hagen Ranch Road from Smith Farm Boulevard to Lantana Road
Palm Beach County Project No. 2019603
Geotechnical Scope of Work (07-12-19)

The project includes roadway and drainage improvements to Hagen Ranch Road from Smith Farm Boulevard to 350 feet south of Lantana Road. More specifically, the project consists of the following improvements:

1. Widening the existing roadway to a fully paved section (80' wide right-of-way), with 1 travel lane in each direction, lengthen the existing turn lanes and widening of shoulders from Smith Farm Boulevard north to the approach to Lantana Road, approximately 350' south of the intersection. It is anticipated that portions of the existing curbs and sidewalks may have to be replaced as a part of this project.
2. Installation of exfiltration trench(es), north of the LWDD L-16 Canal for water quality treatment of added impervious areas.
3. Mill and resurfacing of the limits of construction.
4. Relocation of signage and installation of pavement markings for the proposed roadway configuration.

The following geotechnical scope of work was identified:

Field Work

Site Visit/Utility Clearances

Maintenance of Traffic (MOT) plan

MOT Implementation

- Pavement Cores – FDOT Standard Plans Index 603
- Roadway Widening Borings & Permeability Tests - FDOT Standard Plans Index 602

Proposed for Existing Roadway

- 4 Pavement cores with Auger borings to 6 feet deep (1,000 feet spacing)

Proposed for Roadway Widening

- 2 SPT borings to 10 feet deep (1,000 feet spacing staggered)
- 7 Auger borings to 10 feet deep (200 feet spacing staggered)
- Collect 1 Limerock Bearing Ration (LBR) sample for testing

Proposed Drainage Improvements

- 2 Permeability Tests to 10 feet deep

Lab Testing

Visual Classification

Natural Moisture Content – 15 tests (1 per boring)

Full Grain Size Analysis – 5 tests (1 per every three borings)

Fines Content Determination – 15 tests (1 per boring)

Organic Content – 6 tests (1 per every two borings)

Atterberg Limits – 3 tests (1 per every five borings)

Limerock Bearing Ratio – 1 test

Asphalt Density & Thickness – 4 tests

Engineering Services

Utility Coordination

Field & Lab Work Coordination

Project Management

Geotechnical Report

- Thickness and composition of existing pavement sections
- Detailed graphical logs of the soil borings showing the groundwater level and soil classifications
- Estimated Structural Numbers for the existing pavement
- Discussion of the suitability of the encountered soils for the support of the roadway improvements.
- Permeability test results
- General milling and resurfacing recommendations
- Recommendations for roadway improvements.

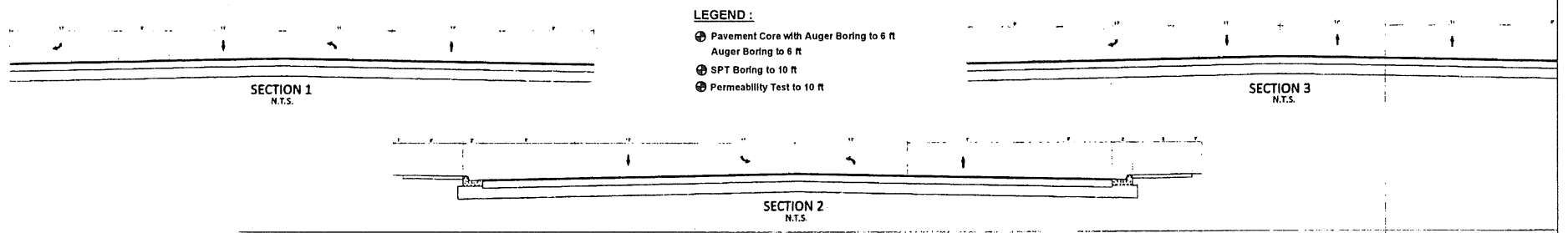
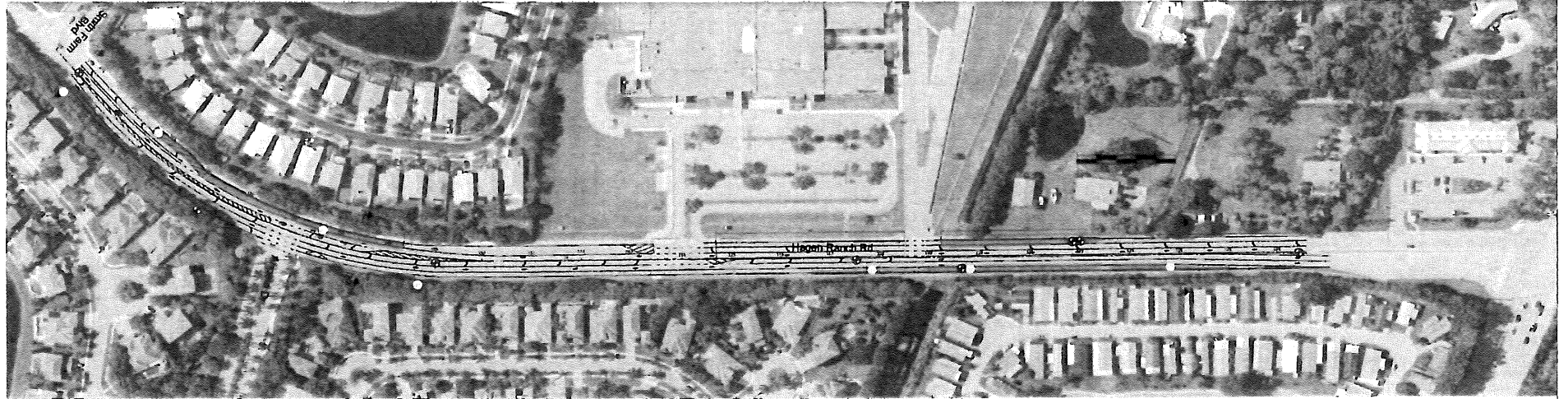


Fee Estimate
Geotechnical Engineering Services
Hagen Ranch Road from Smith Farm Boulevard to Lantana Road
Palm Beach County, Florida
County Project Number: 2019603

	Qty	Unit	Unit Price	Total	
1.0 FIELD EXPLORATION					
1.1 Stake borings and Utility Clearance (Sr. Engineering Tech)	4	Hour	\$ 70.00	\$ 280.00	✓
1.2 Coordinate and Develop MOT Plan (Staff Engineer)	4	Hour	\$ 105.00	\$ 420.00	✓
1.3 Field Work Coordination (Staff Engineer)	4	Hour	\$ 105.00	\$ 420.00	✓
1.4 Mobilize Equipment - Drill Rig (Truck)	1	Each	\$ 350.00	\$ 350.00	✓
1.5 MOT for project (Lane Closure)					
1.5.1 Cones & Signs - 2 days	2	Day	\$ 250.00	\$ 500.00	✓
1.5.2 Flagmen (2 Technicians) - 1 Day (Pavement Cores Only)	16	Hour	\$ 58.00	\$ 928.00	✓
1.6 Roadway Resurfacing					
4 Pavement Cores with Auger borings to 6'					
1.6.1 Pavement Coring Equipment Mobilization	1	Each	\$ 400.00	\$ 400.00	✓
1.6.2 Coring existing asphalt and base	4	Each	\$ 60.00	\$ 240.00	✓
1.6.3 Auger Borings	24	Foot	\$ 13.00	\$ 312.00	✓
1.6.4 Grout Seal Boreholes - 0' to 50'	24	Foot	\$ 4.25	\$ 102.00	✓
1.7 Roadway Widening					
2 SPT borings to 10', 7 Auger borings to 10' & 4 LBR Samples					
1.7.1 SPT Boring-0' to 50' (Truck-Mounted) LAND	20	Foot	\$ 15.00	\$ 300.00	✓
1.7.2 Auger Borings	70	Foot	\$ 13.00	\$ 910.00	✓
1.7.3 Grout Seal Boreholes - 0' to 50'	90	Foot	\$ 4.25	\$ 382.50	✓
1.7.4 LBR Sample Collection (Technician)	8	Hour	\$ 58.00	\$ 464.00	✓
1.8 Drainage Improvements					
2 Permeability tests to 10'					
1.8.1 Auger Borings	20	Foot	\$ 13.00	\$ 260.00	✓
1.8.2 Percolation Test	2	Test	\$ 295.00	\$ 590.00	✓
1.8.3 Grout Seal Boreholes - 0' to 50'	20	Foot	\$ 4.25	\$ 85.00	✓
		TOTAL FIELD WORK		\$ 6,943.50	✓
2.0 LABORATORY SERVICES					
2.1 Visual Classification (Staff Engineer)	4	Hour	\$ 105.00	\$ 420.00	✓
2.2 Moisture Test	15	Each	\$ 15.45	\$ 231.75	✓
2.3 Full Grain Size Analysis	5	Each	\$ 85.00	\$ 425.00	✓
2.4 Fine Content Determination	15	Each	\$ 47.00	\$ 705.00	✓
2.5 Organic Content Test	6	Each	\$ 46.00	\$ 276.00	✓
2.6 Atterberg Limits	3	Each	\$ 88.00	\$ 264.00	✓
2.7 Limerock Bearing Ratio Test	4	Each	\$ 300.00	\$ 1,200.00	✓
2.8 Asphalt Density & Thickness	4	Each	\$ 35.00	\$ 140.00	✓
		TOTAL LABORATORY SERVICES		\$ 3,661.75	✓
3.0 PROFESSIONAL SERVICES & DELIVERABLES					
3.1 Senior Geotechnical Engineer	4	Hour	\$ 155.00	\$ 620.00	✓
3.2 Project Engineer	12	Hour	\$ 135.00	\$ 1,620.00	✓
3.3 Staff Engineer	22	Hour	\$ 105.00	\$ 2,310.00	✓
3.4 Drafter / CADD	10	Hour	\$ 68.00	\$ 680.00	✓
		TOTAL PROFESSIONAL SERVICES		\$ 5,230.00	✓
		TOTAL AMOUNT		\$ 15,835.25	✓



HAGEN RANCH ROAD
PBC# 2019603



LEGEND :

- ⊕ Pavement Core with Auger Boring to 6 ft
Auger Boring to 6 ft
- ⊕ SPT Boring to 10 ft
- ⊕ Permeability Test to 10 ft

REVISIONS						Names		Dates		ENGINEER OF RECORD		DEPARTMENT OF		SCALE: VERTICAL	SHEET TITLE	SHEET NO.	
Date	By	Descriptions	Date	By	Descriptions	Drawn by	Checked by	Designed by	Checked by	Approved by	ENGINEERING & PUBLIC WORKS		COUNTY	CLIENT	SCALE: HORIZONTAL	PROJECT NAME	RADISE PROJECT NO.
						AKK	AKK	KA	AB	AN	4152 West Blue Heron Boulevard, Suite 1114 Riviera Beach, Florida, 33404 TEL 561-841-0103 FAX 561-841-0104 URL : http://www.radise.net		PALM BEACH	 	N.T.S.	HAGEN RANCH ROAD FROM SMITH FARM BOULEVARD TO LANTANA ROAD	1
											LICENSE NO. - 8901				N.T.S.		TBD

OEBO SCHEDULE 1

LIST OF PROPOSED CONTRACTOR/CONSULTANT AND SUBCONTRACTOR/SUBCONSULTANT PARTICIPATION

SOLICITATION/PROJECT/BID NAME: Hagen Ranch Road from Smith Farm Boulevard to Lantana Road
NAME OF PRIME RESPONDENT/BIDDER: Keshavarz & Associates, Inc.
CONTACT PERSON: Randy Wertepny, P.E., Vice President of Engineering
SOLICITATION OPENING/SUBMITTAL DATE: October 2, 2018


SOLICITATION/PROJECT/BID No.: PBC Project No. 2019603
ADDRESS: 711 N. Dixie Highway, Suite 201, West Palm Beach, FL 33401
PHONE NO.: 561-689-8600 **E-MAIL:** randy@keshavarz.com
DEPARTMENT: Department of Engineering and Public Works

PLEASE LIST THE DOLLAR AMOUNT OR PERCENTAGE OF WORK TO BE COMPLETED BY THE PRIME CONTRACTOR/CONSULTANT ON THIS PROJECT. PLEASE ALSO LIST THE DOLLAR AMOUNT OR PERCENTAGE OF WORK TO BE COMPLETED BY ALL SUBCONTRACTORS/SUBCONSULTANTS ON THE PROJECT.

Name, Address and Phone Number	(Check all Applicable Categories)			DOLLAR AMOUNT OR PERCENTAGE OF WORK				
	Non-SBE	M/WBE Minority/Women Business	SBE Small Business	Black	Hispanic	Women	Caucasian	Other (Please Specify)
1. Keshavarz & Associates. Inc. 711 N. Dixie Hwy, #201, WPB, FL 33401 561-689-8600	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	_____	_____	_____	_____	\$176,087.14 (Asian)
2. InfraMap Corp 1860 Old Okeechobee Rd, WPB, FL 33401 561-586-0790	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	\$2,129.33	_____
3. Radise International 4152 Blue Heron Blvd W, #1114, Riviera Beach, FL 33404 561-841-0103	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	_____	_____	\$ 15,835.25	_____	_____
4.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	_____	_____
5.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	_____	_____
(Please use additional sheets if necessary)				Total	_____	15,835.25	2,129.33	176,087.14

Total Bid Price \$ 194,051.72

Total SBE - M/WBE Participation 191,922.39

I hereby certify that the above information is accurate to the best of my knowledge: 
Signature

Senior Vice President
Title

- Note:**
- The amount listed on this form for a Subcontractor/subconsultant must be supported by price or percentage listed on the properly executed Schedule 2 or attached signed proposal.
 - Firms may be certified by Palm Beach County as an SBE and/or an M/WBE. If firms are certified as both an SBE and/or M/WBE, please indicate the dollar amount under the appropriate category.
 - Modification of this form is not permitted and will be rejected upon submittal.

A completed Schedule 2 is a binding document between the Prime Contractor/consultant and a Subcontractor/subconsultant (for any tier) and should be treated as such. The Schedule 2 shall contain bolded language indicating that by signing the Schedule 2, both parties recognize this Schedule as a binding document. All Subcontractors/subconsultants, including any tiered Subcontractors/subconsultants, must properly execute this document. Each properly executed Schedule 2 must be submitted with the bid/proposal.

SOLICITATION/PROJECT NUMBER: 2019603

SOLICITATION/PROJECT NAME: Hagen Ranch Road from Smith Farm Boulevard to Lantana Road

Prime Contractor: Keshavarz & Associates, Inc. Subcontractor: _____

(Check box(s) that apply)

SBE WBE MBE M/WBE Non-S/M/WBE Date of Palm Beach County Certification (if applicable): 10/4/19 - 10/3/22

The undersigned affirms they are the following (select one from each column if applicable):

Column 1	Column 2	Column 3
<input checked="" type="checkbox"/> Male <input type="checkbox"/> Female	<input type="checkbox"/> African-American/Black <input checked="" type="checkbox"/> Asian American <input type="checkbox"/> Caucasian American	<input type="checkbox"/> Supplier
	<input type="checkbox"/> Hispanic American <input type="checkbox"/> Native American	

S/M/WBE PARTICIPATION – S/M/WBE Primes must document all work to be performed by their own work force on this form. Failure to submit a properly executed Schedule 2 for any S/M/WBE participation may result in that participation not being counted. Specify in detail, the scope of work to be performed or items supplied with the dollar amount and/or percentage for each work item. S/M/WBE credit will only be given for the areas in which the S/M/WBE is certified. A detailed proposal may be attached to a properly executed Schedule 2.

Line Item	Item Description	Unit Price	Quantity/ Units	Contingencies/ Allowances	Total Price/Percentage
	Basic Services				\$ 161,307.51
	Reimbursable Expenses				\$ 4,447.00
	Optional Services				\$ 10,332.63

The undersigned Subcontractor/subconsultant is prepared to self-perform the above-described work in conjunction with the aforementioned project at the following total price or percentage: \$ 176,087.14

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

Radise International / InfraMap Corp Price or Percentage: \$15,835.25 / \$ 2,129.33
 Name of 2nd/3rd tier Subcontractor/subconsultant

Keshavarz & Associates, Inc.

Print Name of Prime

By: [Signature]
 Authorized Signature

Mark A. Williams, P.E.

Print Name

Senior Vice President

Title

Date: 7/8/2020

Print Name of Subcontractor/subconsultant

By: _____
 Authorized Signature

Print Name

Title

Date: _____

A completed Schedule 2 is a binding document between the Prime Contractor/consultant and a Subcontractor/subconsultant (for any tier) and should be treated as such. The Schedule 2 shall contain bolded language indicating that by signing the Schedule 2, both parties recognize this Schedule as a binding document. All Subcontractors/subconsultants, including any tiered Subcontractors/subconsultants, must properly execute this document. Each properly executed Schedule 2 must be submitted with the bid/proposal.

SOLICITATION/PROJECT NUMBER: 2019603
 SOLICITATION/PROJECT NAME: Hagen Ranch Road from Smith Farm Boulevard to Lantana Road

Prime Contractor: Keshavarz & Associates, Inc. Subcontractor: InfraMap Corp

(Check box(s) that apply)
 SBE WBE MBE M/WBE Non-S/M/WBE Date of Palm Beach County Certification (if applicable): N/A

The undersigned affirms they are the following (select one from each column if applicable):

Column 1	Column 2	Column 3
<input checked="" type="checkbox"/> Male <input type="checkbox"/> Female	<input type="checkbox"/> African-American/Black <input type="checkbox"/> Asian American <input type="checkbox"/> Caucasian American	<input type="checkbox"/> Supplier
	<input checked="" type="checkbox"/> Hispanic American <input type="checkbox"/> Native American	

S/M/WBE PARTICIPATION – S/M/WBE Primes must document all work to be performed by their own work force on this form. Failure to submit a properly executed Schedule 2 for any S/M/WBE participation may result in that participation not being counted. Specify in detail, the scope of work to be performed or items supplied with the dollar amount and/or percentage for each work item. S/M/WBE credit will only be given for the areas in which the S/M/WBE is certified. A detailed proposal may be attached to a properly executed Schedule 2.

Line Item	Item Description	Unit Price	Quantity/ Units	Contingencies/ Allowances	Total Price/Percentage
	SUE Services	\$2,129.33			\$2,129.33

The undersigned Subcontractor/subconsultant is prepared to self-perform the above-described work in conjunction with the aforementioned project at the following total price or percentage: \$2,129.33

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

N/A Price or Percentage: _____

Name of 2nd/3rd tier Subcontractor/subconsultant

Keshavarz & Associates, Inc.
 Print Name of Prime
 By: [Signature]
 Authorized Signature
Mark A. Williams, P.E.
 Print Name
Senior Vice President
 Title
 Date: 7/2/2020

InfraMap Corp
 Print Name of Subcontractor/subconsultant
[Signature]
 Authorized Signature
Andres Garcia
 Print Name
Sr. Utility Location Manager
 Title
 Date: 07-02-2020

A completed Schedule 2 is a binding document between the Prime Contractor/consultant and a Subcontractor/subconsultant (for any tier) and should be treated as such. The Schedule 2 shall contain bolded language indicating that by signing the Schedule 2, both parties recognize this Schedule as a binding document. All Subcontractors/subconsultants, including any tiered Subcontractors/subconsultants, must properly execute this document. Each properly executed Schedule 2 must be submitted with the bid/proposal.

SOLICITATION/PROJECT NUMBER: 2019603
 SOLICITATION/PROJECT NAME: Hagen Ranch Road from Smith Farm Boulevard to Lantana Road

Prime Contractor: Keshavarz & Associates, Inc. Subcontractor: RADISE INTERNATIONAL, L.C.

(Check box(s) that apply)

SBE WBE MBE M/WBE Non-S/M/WBE Date of Palm Beach County Certification (if applicable): 12.13.2017-12.12.2020

The undersigned affirms they are the following (select one from each column if applicable):

Column 1	Column 2	Column 3
<input checked="" type="checkbox"/> Male <input type="checkbox"/> Female	<input type="checkbox"/> African-American/Black <input checked="" type="checkbox"/> Asian American <input type="checkbox"/> Caucasian American	<input type="checkbox"/> Supplier
	<input type="checkbox"/> Hispanic American <input type="checkbox"/> Native American	

S/M/WBE PARTICIPATION – S/M/WBE Primes must document all work to be performed by their own work force on this form. Failure to submit a properly executed Schedule 2 for any S/M/WBE participation may result in that participation not being counted. Specify in detail, the scope of work to be performed or items supplied with the dollar amount and/or percentage for each work item. S/M/WBE credit will only be given for the areas in which the S/M/WBE is certified. A detailed proposal may be attached to a properly executed Schedule 2.

Line Item	Item Description	Unit Price	Quantity/ Units	Contingencies/ Allowances	Total Price/Percentage
	Geotechnical Engineering				\$5,230
	Construction Materials Testing				3,661.75
	Field Work (Drilling)				6,943.50

The undersigned Subcontractor/subconsultant is prepared to self-perform the above-described work in conjunction with the aforementioned project at the following total price or percentage: 100%

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

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

Keshavarz & Associates, Inc.
 Print Name of Prime
 By: [Signature]
 Authorized Signature
Mark A. Williams, P.E.
 Print Name
Senior Vice President
 Title
 Date: 7/8/2020

RADISE INTERNATIONAL, L.C.
 Print Name of Subcontractor/subconsultant
 By: [Signature]
 Authorized Signature
Achyut Kumar Allady, P.E.
 Print Name
CEO
 Title
 Date: 07/01/2020

Search

Home Insured Tasks View Insured

Insured Name

Keshavarz & Associates Inc.

Keshavarz & Associates Inc.

Active Records Only

Advance Search

Insured

Name: Keshavarz & Associates Inc.

Account Number: DX00000503

Address:

Status: Currently in Compliance.

Insured Tasks Admin Tools

- View
- Insured
- Notes
- History
- Deficiencies
- Coverages
- Requirements
- Contract Screen
- Add
- Edit
- Help
- Video Tutorials

Insured

Business Unit(s) DBA Number Print Insured Info

Account Information

Account Number: DX00000503

Risk Type: Standard - Professional Services

Do Not Call: Address Updated:

Address Information

Mailing Address Physical Address

Insured: Keshavarz & Associates Inc.

Address 1:

Address 2:

City:

State:

Zip:

Country:

Contract Information

Contract Number:

Contract Start Date: Contract End Date:

Contract Effective Date: Contract Expiration Date:

Description of Services: Civil Engineering Annual Services on a Work Task Order Basis Safety Form II: No

Contact Information

Contact Name: Deborah Fulgenzi Misc:

Phone Number: 5616898600 Alt Phone Number:

Fax Number:

E-Mail Address: dsborah@keshavarz.com

Approval Date:

Rush: No

Contract on File: No

Certificate Received: No

Indemnification Agreement: No

Tax Id:

This Account created by c28 on 02/19/2020.