KEITH & SCHNARS
ENGINEERS | PLANNERS | SURVEYORS

Simonton Street Resurfacing and ADA Improvements

Scope of Work:

The CONSULTANT will provide engineering services is for the design for milling, resurfacing and ADA improvements and sidewalk restoration of approximately 4,225 linear feet (0.80 miles) along Simonton Street from Truman Street, north to Simonton Beach

CONSULTANT shall provide Surveying Services to obtain topographic information along Simonton Street from approximately fifty (50) feet South of Truman Street to the northernmost improved portion of the existing roadway (at the Gulf of Mexico). Survey limits will also extend approximately fifty (50) feet in each direction beyond the curb returns at the thirteen (13) intersecting side streets and alley ways, for a total length of approximately five thousand two hundred (5,200) linear feet. The existing right of way will be established throughout the limits of survey. Control points will be identified at approximately one thousand (1,000) foot intervals. Services include the location of above ground permanent improvements such as buildings, asphalt, concrete, fences, trees (with diameter and common species name), and surface features of utilities. Elevations will be relative to the North American Vertical Datum of 1988 (NAVD 88) and shall be obtained on an approximately twenty-five (25) foot grid with intermediate highs and lows also obtained. Asbuilts of gravity utility lines (storm water and sanitary sewer), and heights of features will not be obtained as part of this Survey. Deliverables for the Survey will include a Digital Terrain Model (DTM) of the 3D surface in .dgn (Microstation) format. A Point Cloud produced for the 3D Lidar scanning of the survey will also be provided. Signed and Sealed copies of the Survey will not be provided.

Engineering design services for this project include design, analysis and agency coordination required to provide construction documents for the milling and resurfacing and ADA sidewalk restoration of approximately 4,225 linear feet (0.80 miles) on Simonton Street. The work for this project includes, but is not limited to the requisite road improvements, drainage modifications, driveway and/or ADA ramp modifications, assistance with public notification of the proposed project (one public information meeting), and post design services (i.e., attending the preconstruction meeting and answering questions during construction).

The engineer shall prepare a complete set of construction plans following technical standards set forth in the Florida Department of Transportation (FDOT) design criteria set forth in the *Standard Specifications*, *Roadside Design Guide*, and the *Manual of Uniform Minimum Standards for Design, Construction, and Maintenance of Standard Streets* (Florida Green Book). Additional criteria from the American Society of State Highway and Transportation Officials (AASHTO) *A Policy on Geometric Design of Highways and Streets* and Institute of Traffic Engineers (ITE) *Traffic Engineering Handbook* may also be applicable.

The construction plans shall, at a minimum, include the following:

- Topographic Base Map with pertinent topographical information
- Location and identification of the road right-of-way
- Roadway Typical Sections
- Roadway Plans / Details identifying areas of pavement to be resurfaced, ADA ramp and Sidewalk modifications and drainage modifications.

- Plans shall also include sidewalk restoration details and tree protection details
- Location and identification of utilities within the right of way area based on available records and coordination with local utilities
- Re-striping of roadway alignment (shown of signing and marking plan sheets)
- Standard Maintenance of Traffic narrative referencing applicable FDOT standard Indexes
- General Notes, Details and specifications

Drainage basin maps are not required. Cross section and profile views are not required; however, detail views may be necessary to clearly depict the design/construction requirements for sidewalk modifications.

The engineer shall coordinate the design plans with the applicable utility owners.

Deliverables supplied to the CITY shall include the following:

- 50% Construction Plans and Cost Estimate
  - Two hard copies
  - One electronic file (PDF format)
- 100% Construction Plans and Cost Estimate
  - Two hard copies
  - One electronic file (PDF format)
- Final "Approved for Construction" Plans and Cost Estimate
  - One original signed and sealed
  - One electronic file (PDF format)
- Final "Approved for Construction" Plans – one CD with Electronic files (Microstation format)
- Final "Approved for Construction" Cost Estimate - One electronic file (Excel format)

Consultant:	City of Key West:
C. Bryan Wilson Date: 6-7-18	_____ Date: _____
C. Bryan Wilson, PE	James Scholl
Vice-President of Transportation	City Manager

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ESTIMATE OF WORK EFFORT AND COST - PRIME CONSULTANT

Name of Project: ADA Compliant Sidewalks on Simonton Street
County: Monroe
FPN: 18344.GC
FAP No.: N/A 1/1/1900

Consultant Name: Keith and Schnars, P.A.
Consultant No.: 18344
Date: June 6, 2018
Estimator: SMK /CBW

Staff Classification	Total Staff Hours From "SH Summary - Firm"	Principal	Director	Senior Project Manager	Project Manager	Senior Associate	Associate 2	Associate 1	CADD Technician	Admin. Assistant	Field Crew Supervisor	Project Surveyor	0	SH By Activity	Salary Cost By Activity	Average Rate Per Task
		$225.00	$190.00	$175.00	$150.00	$135.00	$110.00	$95.00	$85.00	$65.00	$95.00	$135.00				
3. Project General and Project Common Tasks	108	2	5	11	16	27	39	5	0	2	0	0	0	107	$14,265	$133.32
4. Roadway Analysis	284	0	6	3	14	99	99	43	20	0	0	0	0	284	$33,805	$119.03
5. Roadway Plans	132	0	0	3	7	17	40	20	46	0	0	0	0	133	$14,080	$105.86
6a. Drainage Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
6b. Drainage Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
7. Utilities	40	0	0	0	4	18	15	2	0	1	0	0	0	40	$4,935	$123.38
8. Environmental Permits, Compliance & Clearances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
19. Signing & Pavement Marking Analysis	90	0	2	1	5	32	32	14	6	0	0	0	0	92	$10,985	$119.40
20. Signing & Pavement Marking Plans	54	0	0	1	3	7	16	8	19	0	0	0	0	54	$5,705	$105.65
25. Landscape Architecture Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
26. Landscape Architecture Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
27. Survey (Field & Office Support)	167	0	6	0	0	0	0	0	110	0	6	45	0	167	$17,135	$102.60
Total Staff Hours	875	2	19	19	49	200	241	92	201	3	6	45	0	877		
Total Staff Cost		$450.00	$3,610.00	$3,325.00	$7,350.00	$27,000.00	$26,510.00	$8,740.00	$17,085.00	$195.00	$570.00	$6,075.00	$0.00		**$100,910.00**	**$115.06**

Check = $100,910.00

Survey Total(Office + Field) = $34,055.00

SALARY RELATED COSTS:						$100,910.00
OVERHEAD:			0%			$0.00
OPERATING MARGIN:			0%			$0.00
FCCM (Facilities Capital Cost Money):			0.00%			$0.00
EXPENSES:			0.00%			$0.00
Survey (Field - if by Prime)	62	3-person crew hours @	$ 160.00	/ hour		$9,920.00
	28	2-person crew hours @	$ 125.00	/ hour		$3,500.00
	14	Laser Scan Crew @	$ 250.00	/ hour		$3,500.00
SUBTOTAL ESTIMATED FEE:						**$117,830.00**
Subconsultant: GeoSyntec						$0.00
Subconsultant: Cahagan & Bryant						$0.00
SUBTOTAL ESTIMATED FEE:						**$117,830.00**
Geotechnical Field and Lab Testing						$0.00
SUBTOTAL ESTIMATED FEE:						**$117,830.00**
Optional Services						$0.00
GRAND TOTAL ESTIMATED FEE:						**$117,830.00**