

PART 6. RESPONSIBILITIES AND OBLIGATIONS

This Authorization does not waive the parties' responsibilities and obligations provided under the **Agreement**.

PART 7. ACKNOWLEDGEMENT AND CONFIRMATION

Acknowledgement and Confirmation by Hidalgo County Precinct No.4, as to content and detail of this **Work Authorization No. 1**.

**HIDALGO COUNTY
COMMISSIONER PRECINCT No. 4:**

By: _____
Hon. Joseph Palacios

PART 8. ACCEPTANCE AND APPROVAL

This Work Authorization is hereby accepted, approved by Hidalgo County Commissioners' Court on 01/24/17 as indicated below and effective as of 24th day of January, 2017.

**THE ENGINEER:
South Texas Infrastructure Group, LLC**

**THE OWNER:
HIDALGO COUNTY**

By:  _____
Julio Cerda, PE/President

By: _____
Ramon Garcia, County Judge

ATTEST:

By: _____
Arturo Guajardo Jr., County Clerk

EXHIBIT A
-SCOPE OF SERVICES TO BE PROVIDED BY THE OWNER

The following provides an outline of the services to be provided by the Owner in the development of Projects (as defined and more particularly identified in Exhibit "A" attached to this Agreement).

General:

The Owner will provide to the Engineer the following:

- 1) Provide the authorization to proceed with services through coordination with the project consulting and design Engineer.
- 2) Payment for work performed by the Engineer and accepted by the Owner in accordance with Article 3 of this Agreement.
- 3) Assistance to the Engineer, as necessary, to obtain the required data and information from other local, regional, State and Federal agencies the Engineer cannot easily obtain.
- 4) Provide any available relevant data the Owner may have on file concerning the projects.
- 5) Provide timely review and decisions in response to the Engineer's request for information and/or required submittals and deliverables, in order for the Engineer to maintain the agreed upon work schedule prepared in accordance with Exhibit "A" attached to this Agreement.
- 6) Attend and participate in progress meetings as required and as coordinated and conducted by Engineer.
- 7) Provide the authorization to proceed with services on project by project basis through consulting design and construction Engineer.

EXHIBIT B

Scope of Services to be provided by the Engineer

Sunflower Park Phase II

Concrete Sidewalk, Walking Trail, Parking, & Drive Project

A. Engineering Services

PARK FOR SIDEWALK, WAKING TRAIL, PARKING, & DRIVEWAY PROJECT

- 1) Develop Typical Sections – No Pavement design will be completed as part of the scope of work. Pavement Section for drive and parking lot will be based on directive from Hidalgo County Pct. No. 4 procured Geotech Engineer.
- 2) Prepare plan and profile sheets as required for the reconstruction.
- 3) Develop plan and profiles for inclusion in sheets.
- 4) Develop park drive, parking, concrete sidewalk, walking trail and park amenities quantities and prepare quantity summary sheet.
- 5) Develop Miscellaneous Park Drive, Parking, and Park Details.
- 6) Prepare Title Sheet and Index sheets.
- 7) Calculate project quantities and prepare quantity summary sheet.
- 8) Prepare general notes.
- 9) Prepare list of Standard Drawing to be included in the plans.
- 10) Upon completion of the review of the final plans by Hidalgo County Precinct. No. 4, the ENGINEER shall assemble and furnish signed original (11" x 17") drawings which shall include all applicable standards. The Engineer may sign/seal plans manually or include an electronic signature/seal.
- 11) Coordinate with Pct. 4 and other agencies as necessary.

B. FIELD DESIGN SURVEY SERVICES

SURVEYING

- 1) Topographic survey of entire project length.
- 2) Topography shall include any existing drainage crossings.
- 3) Include flow lines, size and direction of drainage channels/structures.
- 4) Include utilities
- 5) Perform one-call (Dig Tess) and identify and locate utilities (within Limits of R.O.W) as flagged/marked by utility companies.
- 6) Include inverts on sanitary sewer, measure downs to top of keys on water and gas mains.
- 7) Establish x, y, and z coordinates of power poles, manholes and valves of various utilities, flow lines of existing sanitary sewer and storm sewer lines, and subsequent utility ties of facilities exposed by others. Surveyor to survey nearest manhole/valve invert outside project limits.
- 8) Establish 2 benchmarks for project control.

Additional Services

- 1) Prepare Bid Documents
- 2) Attend and Coordinate Pre-bid Conference
- 3) Evaluate Bids
- 4) Make Award Recommendation
- 5) Assist County with preparation of Contract Documents
- 6) Attend Pre-Construction Conference upon request by County

C) GEOTECHNICAL/CMT SERVICES (by others)

- 1) Geotech services prior to PS&E development
- 2) Construction materials testing during construction

Exhibit "C"
Work Schedule
Sunflower Park Phase II(WA#1)
Concrete Sidewalk, Walking Trail, Parking, Drive Project
Contract No. C-17-031-01-24

TASK AND DESCRIPTION	FIRM	2016			2017								
		October	November	December	January	February	March	April	May	June	July	August	September
Phase I: Park Design Plans and Specifications	STIG												
A. Design Survey & Park Design Plans													
B. Drainage Culvert Design Plan and Profile													
C. Details and Specifications													
D. Final Deliverables													
	ROWSS												
A. Horizontal and Vertical Control													
B. Construction Staking													
C. Construction Inspection													

EXHIBIT C
WORK SCHEDULE

Exhibit "D-1"
BUDGET
LUMP SUM RATE BASIS OF PAYMENT

Work Authorization No. 1

Project: Sunflower Park Phase II Concrete Sidewalk, Walking Trail, Parking, & Drive Project WA 1				South Texas Infrastructure Group, LLC								
County: Hidalgo County, Texas												
From: @ Sunflower Rd. and SH 107												
Description of Work: Park Improvement Expansion												
Fully-Loaded Hourly Wage Rates * (as defined below)				PRINCIPAL	PROJECT MANAGER	PROJECT ENGINEER	EIT	SENIOR CADD TECHNICIAN	ENGINEERING TECHNICIAN	ADMIN/ CLERICAL	Total Hours	Cost
TASK AND DESCRIPTION												
HOURLY RATE				\$187.00	\$161.00	\$125.00	\$98.00	\$95.00	\$85.00	\$50.00		
Project DESIGN CONTROLS (FC160)												
160. Geometric Design												
2.0 Develop Geometric Project Layout					0	8	30	16	16		70	\$ 6,498.96
160.1 Park Design												
1.0 Design and Develop Park Layout (PS&E)					0	8	30	8	8		54	\$ 5,226.64
2.0 Design and Develop Alignment - Park (PS&E)					0	8	24	8	8		48	\$ 4,638.64
3.0 Develop Park Sidewalk Data Sheet					0	1	16	4	4		25	\$ 2,330.95
4.0 Design and Develop Park Drive and Parking Geometric File (PS&E)					0	4	6				10	\$ 1,095.16
13.0 Develop Driveway P&P Sheets					0	1	4	4	6		15	\$ 1,308.03
14.0 Design and Develop Misc. Park Details					0	1	4	2	2		9	\$ 836.87
15.0 Select Pertinent Park Standards					0	1	4	1	1		7	\$ 677.83
160.5 Cut and Fill Quantities												
1.0 Develop Earthwork Quantities for Park Drive and Parking						8	24	6	6		44	\$ 4,320.56
160.7 Parking and Driveway Design (See Laboratory Fee Schedule)											0	\$ -
Subtotal Hours				0	0	40	142	49	51	0	282	
Subtotal Cost				\$0.00	\$0.00	\$5,000.00	\$13,916.00	\$4,655.00	\$4,335.00	\$0.00		\$ 26,933.64

* A fully-loaded Hourly Wage Rate is defined as an employee's base hourly rate plus labor overhead (including fringe benefits), general and administrative (indirect) expenses, profit and escalation (if applicable).

Exhibit "D-1"
BUDGET

Work Authorization No. 1

LUMP SUM RATE BASIS OF PAYMENT

TASK AND DESCRIPTION	Project	PROJECT	SURVEY	4-MAN	3-MAN	2-MAN	ADMIN/	Total	Cost
	Principal	RPLS	TECHNICIAN	SURVEY CREW	SURVEY CREW	SURVEY CREW	CLERICAL	Hours	
Surveying FC(150)	Hourly Rate*	\$124.00	\$125.00	\$82.00	\$174.00	\$155.00	\$130.00	\$50.00	
A. Control Hz and Vt									
I. Primary Project Control									
i. Establish Primary Control	0	2	1	0	6	0	0	9	\$ 1,262.00
II. Secondary Project Control									
i. Set additional secondary control points as needed	0	1	1	0	4	0	0	6	\$ 827.00
ii. Horizontal values established with RTK or VRS	0	1	1	0	4	0	0	6	\$ 827.00
iii. Vertical values established with digital level	0	1	1	0	4	0	0	6	\$ 827.00
III. Setting benchmarks									
i. Setting Benchmarks	0	1	1	0	6	0	0	8	\$ 1,137.00
B. Design Surveys									
i. Topography	0	1	4	0	16	0	0	21	\$ 2,933.00
ii. Locate visible utilities	0	1	1	0	4	0	0	6	\$ 827.00
iii. Utilities	0	1	1	0	4	0	0	6	\$ 827.00
iv. Existing	0	1	1	0	4	0	0	6	\$ 827.00
v. Cross section intersecting streets	0	1	1	0	3	0	0	5	\$ 672.00
vi. Drive ways and turnouts	0	1	1	0	3	0	0	5	\$ 672.00
vii. Existing Storm Drain	0	1	1	0	3	0	0	5	\$ 672.00
viii. Outfalls	0	1	1	0	3	0	0	5	\$ 672.00
	0	0	0	0	0	0	0	0	\$ -
Subtotal Hours	0	14	16	0	64	0	0	94	
Subtotal Cost	\$0.00	\$1,750.00	\$1,312.00	\$0.00	\$9,920.00	\$0.00	\$0.00		\$ 12,982.00

* A fully-loaded Hourly Wage Rate is defined as an employee's base hourly rate plus labor overhead (including fringe benefits), general and administrative (indirect) expenses, profit and escalation (if applicable).

OTHER DIRECT EXPENSES		# OF UNITS	COST/UNIT					
Environmental Engineering								
163.13 **Utility Engineering Investigation based on the SUE from FC 150								
MILEAGE (current state rate)		250	\$ 0.565					\$141.25
MEALS (Overnight stay Required)			\$ 36.00					\$0.00
LODGING (taxes/fess not included)			\$ 85.00					\$0.00
11" x 17" B/W Paper Copies		250	\$ 0.20					\$50.00
								\$0.00
								\$0.00
SUBTOTAL DIRECT EXPENSES								\$191.25

SUMMARY	
TOTAL ENGINEERING DESIGN COSTS	\$ 61,165.80
TOTAL DESIGN SURVEY COSTS	\$ 12,982.00
NON-SALARY (OTHER DIRECT EXPENSES) FOR PRIMEONLY	\$ 191.25
SUBCONSULTANT TOTAL	\$ -
GRAND TOTAL LUMP SUM BASIS OF PAYMENT	\$ 74,339.05