GENERAL MEETING OF THE BOARD OF DIRECTORS OF THE CENTRAL TEXAS REGIONAL MOBILITY AUTHORITY

RESOLUTION NO. 16-076

APPROVING AMENDMENT NO. 8 TO THE AGREEMENT WITH STANTEC CONSULTING SERVICES INC. FOR TRAFFIC AND REVENUE SUPPORT SERVICES FOR EXISTING AND PROPOSED MOBILITY AUTHORITY PROJECTS

WHEREAS, by Resolution No. 07-62, dated October 3, 2007, the Board of Directors authorized an agreement with Stantec Consulting Services, Inc. ("Stantec") to provide traffic and revenue studies for the Mobility Authority (the "Agreement"); and

WHEREAS, since 2007 the Authority has extended the original contract and Stantec has continued to provide traffic and revenue studies and services for the Authority; and

WHEREAS, the Authority has a continuing need to monitor traffic and revenue for its existing toll projects and for new Authority projects, and the Executive Director recommends continuing to use Stantec for traffic and revenue services described in the proposed Amendment No. 8 to the Agreement which is attached to this resolution as <u>Exhibit A</u>.

NOW THEREFORE, BE IT RESOLVED, that the Board of Directors authorizes the Executive Director to negotiate and execute Amendment No. 8 to the Agreement in the form or substantially the form attached as <u>Exhibit A</u> to this resolution.

Adopted by the Board of Directors of the Central Texas Regional Mobility Authority on the 28th day of September, 2016.

Submitted and reviewed by:

General Counsel

Approved:

Ray A Wilkerson Chairman, Board of Directors

<u>Exhibit A</u>



Stantec Consulting Services Inc. 50 West 23rd Street, 8th Floor, New York NY 10010-5272

September 21, 2016

Mr. Bill Chapman, CFO Central Texas Regional Mobility Authority 3300 North IH-35, Suite 300 Austin, TX 78705

Reference: Stantec Professional Consulting Services Agreement, 8th Amendment

Dear Mr. Chapman:

We are pleased to deliver our scope and budget (Exhibit A) to provide continuing Traffic and Revenue Consulting Services to the Central Texas Regional Mobility Authority as it moves forward with various toll road projects now in operation or in the planning stages. Following is a description of the anticipated work efforts that would be provided under this agreement:

Level 3 Traffic & Revenue (T&R) Studies -- 2 projects

We anticipate conducting two investment grade T&R studies over the next 3-year period and have included those efforts in our scope and budget. These studies would be similar to the October 2015 Bergstrom Expressway T&R Study. Each of the studies will produce traffic & forecasts and documentation suitable for financing, including coordination with the financial team as well as meetings and presentations to rating agencies and investors. We will use our latest edition of the regional traffic model and fully update the required inputs, including validating the peak period baseline conditions to actual levels in the study area; this will be vital to reflect presence of new projects with managed lanes. We have included an allowance for subconsultants to conduct specialized studies such as demographic updates, traffic counts & surveys and stated preference surveys.

Level 2 Intermediate T&R Study -- 1 project

The scope of this study would be less extensive than a Level 3 Study, with fewer surveys and validation efforts, but would provide a reasonable basis for deciding whether to advance the project to the financing stage.

Level 1 Preliminary T&R Studies -- 2 projects

This effort would use the latest version of the traffic model for planning purposes to support preliminary feasibility studies of new projects or changes to existing projects. As the underlying traffic model would be based on a Level 3 baseline, only limited new surveys would be conducted for the Level 1 Study, sufficient to provide an initial reading on likely traffic & revenue potential of the project.



Reference: Stantec Professional Consulting Services Agreement, 8th Amendment

Monitor & Support (Ongoing Efforts)

We will monitor the transaction and revenue data for 183A, the Manor Expressway and other elements that become operational, comparing actual conditions to forecast levels and identifying reasons for potential variations. We anticipate conducting sketch level studies and project evaluations, toll schedule evaluations, simulation studies and miscellaneous support in our role as the Authority's Traffic Consultant.

Stantec will be the prime consultant on this assignment, drawing on the expertise of subconsultants as needed for specialized studies. These may include Michael Bomba, Alliance Transportation Group, CJ Hensch & Associates, Quality Counts, GRAM Traffic Counting, and Resource Systems Group.

Our project personnel are especially qualified to undertake this work. Tom Harknett will function as the Principal in Charge and also serves as Stantec's Practice Leader for the Traffic and Revenue Studies Group. I will be the Project Manager (PM), with 30+ years of experience in toll feasibility studies and more than 15 years of involvement in Austin-based projects for the Mobility Authority as well as TxDOT. Sumeet Kishnani will be the Assistant PM and other key staff will include Tiffany Carson and Ann Hughitt.

Exhibit A presents a summary and details of the anticipated typical budget levels for the tasks described above. As discussed with you, the total budget is \$3,000,000.

We look forward to working with you in the coming years.

Very truly yours,

STANTEC CONSULTING SERVICES INC.

William Shh

William Ihlo, PE Principal 50 West 23rd Street, 8th floor New York, NY 10010 Ph. (646) 490-3852 William.Ihlo@stantec.com

Exhibit A							
	Table of Contents						
Exhibit Number	Exhibit Title						
Exhibit A-1	Hourly Labor Rate Table						
Exhibit A-2	T&R Summary Budget						
Exhibit A-3	Typical Level 3 T&R Budget						
Exhibit A-4	Typical Level 2 T&R Budget						
Exhibit A-5	Typical Level 1 T&R Budget						
Exhibit A-6 Monitor & Support Budget							

Exhibit A-1 Stantec Consulting Evergreen Contract Hourly Labor Rate Table September 21, 2016							
Labor Category	Hc	ourly Rate					
Principal	\$	117.00					
Project Manager	\$	95.00					
Senior Engineer	\$	80.00					
Engineer	\$	65.00					
Junior Engineer	\$	45.00					
Entry Level Engineer	\$	35.00					
FAR Overhead	Curr	ent Rate					
Profit		10.0%					

Note: Rates subject to escalation from time to time.

Exhibit A-2 Stantec Consulting Evergreen Contract T&R Summary Budget September 21, 2016								
Task								
Level 3 T&R (2 Projects)	\$	2,080,000						
Level 2 T&R (1 Project)	\$	420,000						
Level 1 T&R (2 Projects)	\$	162,000						
Monitor & Support	\$	338,000						
Total	\$	3,000,000						

EXHIBIT A-3									
Stantec Consul	ting Typical L	evel 3 T & R	Budget Sept	tember 21, 20	016 (2 Projec	cts)			
	1	wi	SK & AH	MK	TC			Total	Total
		Project	Senior		Junior	Entry Level	Total	Direct	Labor
Task Description	Principal	Manager	Engineer	Engineer	Engineer	Engineer	Hours	Labor	Cost
Task 1 Project Definition (Alignment, access, lanes, tolls)	8	40	40	20	20	20	148	\$10,836	\$33,07
Task 2 Update Model Inputs	8	80	300	100	200	150	838	\$53,286	\$162.63
Task 3 Establish Screenlines	8	16	16	16	16	16	88	\$6,056	\$18,48
Task 4 Model Validation	16	80	500	200	250	250	1296	\$82,472	\$251,71
Task 5 Toll Rate Plan & Schedule	8	40	40	20	20	20	148	\$10,836	\$33,07
Task 6 Modeling Runs (3 model yrs; 4 scenarios)	16	80	340	120	200	170	926	\$59,422	\$181.36
Task 7 Analysis of Results	16	120	300	100	200	150	886	\$58,022	\$177.09
Task 8 Sensitivities	16	80	240	80	120	120	656	\$43,472	\$132,68
Task 9 Documentation & Meetings	40	120	120	60	200	120	660	\$42,780	\$130,57
Task 10 Rating Agency Meetings	40	120	120	40	100	60	480	\$34,880	\$106,46
Task 11 Investor Meetings	40	120	120	40	100	60	480	\$34,880	\$106,46
Task 12 Systemwide Analysis	40	120	220	80	110	80	650	\$46,630	\$142.32
Task 13 Coordination with other projects (183 North, MoPac ML's)	40	120	120	40	60	60	440	\$33,080	\$100,96
Total Hours	296	1136	2476	916	1596	1276	7696	\$516,652	\$1,576,91
Labor Rate	\$117.00	\$95.00	\$80.00	\$65.00	\$45.00	\$35.00			
Total Direct Labor	\$34,632	\$107,920	\$198,080	\$59,540	\$71,820	\$44,660			
Multiplier (FAR 177.47%; fee 10.0%)	3.052	3.052	3.052	3.052	3.052	3.052			
Total Labor Cost	\$105,703	\$329,390	\$604,574	\$181,726	\$219,207	\$136,310			\$1,576,91
Direct Expenses									\$53,09
Total Stantec Effort									\$1,630,00
Subconsultant Efforts									
Demographic Update									
Subconsultant Bomba									\$150,00
Stated Preference Survey									
Subconsultant RSG									\$150,00
Supplemental Traffic Counts									
Subconsultant TBD									\$150,00
Total All Wor	k								\$2,080,00

		EXHIB	TA-4						
Stantec Consult	ing Typical L	evel 2 T & R.	Budget Sep	tember 21, 2	016 (1 Proje	ct)			
								Total	Total
		Project	Senior		Junior	Entry Level	Total	Direct	Labor
Task Description	Principal	Manager	Engineer	Engineer	Engineer	Engineer	Hours	Labor	Cost
Task 1 Project Definition (Alignment, access, lanes, tolls)	2	24	20	10	20	10	86	\$6,014	\$18,35
Task 2 Update Model Inputs	4	24	40	40	80	40	228	\$13,548	\$41,35
Task 3 Establish Screenlines	2	8	16	8	12	8	54	\$3,614	\$11.03
Task 4 Model Validation	4	20	160	80	120	40	424	\$27,168	\$82.92
Task 5 Modeling Runs (3 model yrs; 4 scenarios)	4	40	80	40	80	40	284	\$18,268	\$55,75
Task 6 Analysis of Results	8	60	60	40	60	60	288	\$18,836	\$57,49
Task 7 Sensitivities	8	60	60	20	40	40	228	\$15,936	\$48.63
Task 8 Documentation & Meetings	16	60	60	20	50	20	226	\$16,622	\$50,73
Total Hours	48	296	496	258	462	258	1818	\$120,006	\$366,27
Labor Rate	\$117.00	\$95.00	\$80.00	\$65.00	\$45.00	\$35.00			- 10 C
Total Direct Labor	\$5,616	\$28,120	\$39,680	\$16,770	\$20,790	\$9,030			
Multiplier (FAR 177.47%; fee 10.0%)	3.052	3.052	3.052	3.052	3.052	3.052			
Total Labor Cost	\$17,141	\$85,827	\$121,110	\$51,185	\$63,455	\$27,561			\$366,27
Direct Expenses									\$3,72
Total Stantec Effort									\$370,00
Subconsultant Efforts									
Demographic Update									
Subconsultant Bomba									\$25,00
Supplemental Traffic Counts			-						
Subconsultant TBD									\$25,00
Total All Work									\$420,00

		EXHIBI	T A-5						
Stantec Consul	ting Typical L	evel 1 T & R	Budget Sept	ember 21, 20	16 (2 Projec	cts)			
		Project	Senior		Junior	Entry Level	Total	Total Direct	Total Labor
ask Description	Principal	Manager	Engineer	Engineer	Engineer	Engineer	Hours	Labor	Cost
Task 1 Project Definition (Alignment, access, lanes, tolls)	2	20	20	8	16	8	74	\$5,254	\$16,036
Task 2 Update Model Inputs	2	20	40	16	40	16	134	\$8,734	\$26,658
Task 3 Establish Screenlines	2	8	8	8	8	8	42	\$2,794	\$8,528
Task 4 Modeling Runs (3 model yrs; 4 scenarios)	4	20	40	16	40	16	136	\$8,968	\$27,372
Task 5 Analysis of Results	4	20	40	16	40	16	136	\$8,968	\$27,372
Task 6 Sensitivities	4	20	30	16	40	16	126	\$8,168	\$24,930
Task 7 Documentation	4	20	20	8	20	8	80	\$5,668	\$17,300
Fotal Hours	22	128	198	88	204	88	728	\$48,554	\$148,195
abor Rate	\$117.00	\$95.00	\$80.00	\$65.00	\$45.00	\$35.00			
otal Direct Labor	\$2,574	\$12,160	\$15,840	\$5,720	\$9,180	\$3,080			
Aultiplier (FAR 177.47%; fee 10.0%)	3.052	3.052	3.052	3.052	3.052	3.052			
Total Labor Cost	\$7,856	\$37,114	\$48,346	\$17,458	\$28,019	\$9,401			\$148,195 \$805
otal Stantec Effort									\$149,000
Subconsultant Efforts									
Aiscellaneous Support									
Subconsultant TBD									\$13,000
Total All Wor				11					\$162,000

		EXHIBI	T A-6						
Stantec 0	Consulting M	onitor & Sup	port Budget	September 2	21, 2016				
			1					Total	Total
		Project	Senior		Junior	Entry Level	Total	Direct	Labor
Task Description	Principal	Manager	Engineer	Engineer	Engineer	Engineer	Hours	Labor	Cost
Task 1 Monitor Daily & Monthly Traffic & Revenue Reports	4	40	40	40	40	40	204	\$13,268	\$40,496
Task 2 Sketch Level Studies	4	40	80	40	40	40	244	\$16,468	\$50,263
Task 3 Toll Schedule Evaluation	4	40	40	40	40	40	204	\$13,268	\$40.496
Task 4 Simulation Studies	4	40	80	80	80	40	324	\$20,868	\$63,693
Task 5 Miscellaneous Support	4	120	140	140	100	40	544	\$38,068	\$116,190
Total Hours	20	280	380	340	300	200	1520	\$101,940	\$311,138
Labor Rate	\$117.00	\$95.00	\$80.00	\$65.00	\$45.00	\$35.00			
Total Direct Labor	\$2,340	\$26,600	\$30,400	\$22,100	\$13,500	\$7,000			
Multiplier (FAR 177.47%; fee 10.0%)	3.052	3.052	3.052	3.052	3.052	3.052			
Total Labor Cost	\$7,142	\$81,188	\$92,786	\$67,453	\$41,204	\$21,365			\$311,138
Direct Expenses									\$1,862
Total Stantec Effort									\$313,000
Subconsultant Efforts									
Miscellaneous Support									
Subconsultant – TBD									\$25,000
Total All Work				li di					\$338,000

	Summary L	ist of Stantec T&R Assignme	ents 9/21/16
Project	Task	Schedule	Comments
290E DC's: Sensitivities	T&R Results	By 9/23	With & W/O SH 130 widening
	1 Page Summary	By 9/27	
PBM Surcharge Options	T&R Model Output	By 9/30	Test range of values (1.33 to 2.00 for 2015 and 2020)
	Summary Memo	By 10/4	
Oakhill Parkway: Level 1 Study	T&R Results	By 10/28	At-grade & DC options
	Summary Memo	By 11/11	
290E DC's: Level 3 Study	Data Collection	Oct./Nov. '16	Check TxDOT cost sharing
	SED Update	Oct. '16 to Jan. '17	Check TxDOT & CAMPO cost sharing
	T&R Report	Spring 2017	
183A Phase 3: Level 3 Study	Data Collection	Spring 2017	Update traffic after MIP opening
	T&R Report	Fall 2017	