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**MEMORANDUM**

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**TO:** ROBERT VESTAL, P.E. – CITY OF BEAUMONT

**FROM:** PORTIA GONZALEZ, P.E.

**SUBJECT:** BEAUMONT MDP LINE 2 STAGE 1 - SCOPE AND FEE CHANGE

**DATE:** OCTOBER 6, 2022

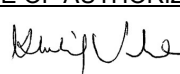
Please find the scope and fee change for updating the Line 2 hydrology study and performing the hydraulic analysis for Berkshire Channel. It is our understanding that the City and Riverside County Flood Control District (RCFCD) propose to design the Line 2 storm drain for the 10-year storm event.

Scope Addition:

- Coordination with RCFCD and City
- Perform Hydrology Study south of I-10 for the Q<sub>10</sub> and Q<sub>100</sub> ultimate land use conditions. Sub-area delineations will be prepared and approved by the City and RCFCD prior to developing the hydrology models.
- Prepare Hydrology and Hydraulics Memorandum. The City and RCFCD to provide review comments and EXP will incorporate comments in the Final Hydrology and Hydraulics Study and Memorandum.
- Review existing available drainage reports from Tract 31520 and 31520-1 and evaluate Berkshire Channel Hydraulics for the updated peak flows. The City and RCFCD to provide review comments and EXP to incorporate comments to the Final Hydraulic Study.
- Evaluate Potential Detention Basin Feasibility. Evaluation includes preliminary basin sizing, plans, basin routing calculations, inlet and outlet pipe hydraulics, emergency spillway evaluations.

Should you have any further questions, please feel free to contact me. Thank you.

**Cost & Price Form**

Name of Firm: EXP U.S. SERVICES				
Project: Beaumont MDP Line 2 - Stage 1				
	Year 2022-2023			Notes and Assumptions: Escalation rates are not applied. New rates become effective March 31, 2023
	HOURS	RATE	COST	
Project Manager	30	\$116.00	\$3,480	
Senior Project Engineer	4	\$115.38	\$462	
Senior Drainage Engineer	100	\$90.00	\$9,000	
Drainage Engineer	84	\$46.64	\$3,918	
TOTAL	218		\$16,859	
TOTAL DIRECT LABOR (COST)				\$16,859
TOTAL DIRECT LABOR (Hours)				218
<b>2. INDIRECT COSTS (overhead, G&amp;A - specify)</b>				
	INDIRECT RATE (%)	X BASE =	COST	
Fringe	65.32%	\$16,859	\$11,012	
Overhead	114.02%	\$16,859	\$19,223	
G&A	0.23%	\$16,859	\$39	
TOTAL INDIRECT				\$30,274
<b>3. TOTAL DIRECT COST AND INDIRECT COSTS (sum of lines 1-2)</b>				\$47,133
<b>4. FIXED FEE OR PROFIT</b>				
(specify, applies to line 3 only)	10.00%	\$47,133	\$4,713	
TOTAL FEE				\$4,713
<b>5. OTHER DIRECT COSTS (specify)</b>				
ODC's				\$0
<b>TOTAL EXP PRICE</b>				<b>\$51,847</b>
<b>6. SUBCONSULTANT FEES</b>				
David Evans and Associates (Topo Mapping)				\$0.00
Geocon (Geotechnical)				\$0.00
EPIC Land Solutions (Utilities and Right of Way)				\$0.00
ICF (Regulatory Compliance)				\$0.00
Total Sub-Consultant Fee				\$0.00
City Contingency Funds			\$	10,000.00
<b>TOTAL FEE</b>				<b>\$61,847.00</b>
DATE	SIGNATURE AND TITLE OF AUTHORIZED REPRESENTATIVE OF CONSULTANT			
10/6/2022				

TASK	DESCRIPTION	FIRM	Project Manager	Senior Project Engineer	Senior Drainage Engineer	Drainage Engineer	TOTAL HOURS
<b>PROJECT MANAGEMENT / COORDINATION /ADMINISTRATION</b>							
1.10	Meetings	EXP	8	4			12
1.11	Coordination and Progress Reporting	EXP	4				4
<b>SUBTOTAL Task 1 - Project Management</b>			<b>12</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>16</b>
<b>ENGINEERING DEVELOPMENT</b>							
6a	30% Submittal Package		18	0	100	84	202
6a.1	Line 2 Hydrology Study	EXP	8		40	24	72
6a.b	Technical Memorandum	EXP	2		12		14
6a.3	Hydraulic Analysis Berkshire Channel and Basin Analysis	EXP	8		48	60	116
<b>TOTAL</b>			<b>30</b>	<b>4</b>	<b>100</b>	<b>84</b>	<b>218</b>