

March 14, 2017

Mr. John Lothrop
Assistant Director, Engineering
City of League City
500 W. Walker Street
League City, Texas 77573

Re: **Contractual Amendment:** Dallas Salmon Outfall Relocation Project
City of League City Project WW1601
City of League City, Galveston County, Texas

Dear Mr. Lothrop:

During the course of the development and issuance of the Preliminary Engineering Report (PER) for the Dallas Salmon Outfall Relocation project, it was determined that several additional design components are required to construct the effluent outfall piping. These items were presented in the PER and agreed upon by the City of League City as necessary for the project. It is important to note that these items were not included in the original Professional Services Agreement (PSA) dated January 19, 2016, per Resolution No. 2015-63. These items included the following:

- Reinforced Concrete Box Culvert (estimated at 10'X8' from 7th Street to Clear Creek, 10'X6' from Fire Training Facility to 7th Street) to accommodate the N. Kansas Ave. Roadway project.
- Accommodate Draft FEMA FIRM Panel B.F.E. of 14.00', resulting in an upsized effluent outfall pipe to 96-inch diameter (from 84-inch).
- Combined Outfall Structure to accommodate the effluent piping and N. Kansas Ave. drainage box culvert.
- Junction Structure for Future Connection to 60-inch pipe (for future pump station).
- Paving at 7th Street/N. Kansas Ave. Intersection after completion of existing storm sewer tie-ins to proposed box culvert. This will be coordinated closely with the N. Kansas Avenue project under design by separate contract.
- Temporary Access Paving adjacent to 7th Street/N. Kansas Intersection to provide resident access during construction.
- Rehabilitation of approximately 100' of 48-inch ductile iron pipe from Junction Box D to the Dallas Salmon WWTP outfall structure.

The original cost for construction of the Dallas Salmon Effluent Outfall piping was estimated at \$3,240,000. With the additional work items listed above, the revised cost estimate is \$6,198,040, as presented in the final issuance of the PER. Of the \$6,198,040 revised cost estimate, \$3,198,040 is necessary for Wastewater purposes and \$2,247,000 is necessary for the N. Kansas Ave. Drainage and Paving improvements.

Based upon the required additional design work for the added infrastructure items, the Design Phase Fee and Additional Services Fees will need to be adjusted to accommodate required design costs. The total



Mr. John Lothrop

Page 2

March 14, 2017

fee increase requested for the proposed contract amendment is \$84,800. The table on the following page provides a breakdown of JC's original PSA fees and the proposed amendment additions.

	ORIGINAL FEE	AMOUNT PAID Through 03/14/17	ADDITIONAL FEE REQUESTED	NOTES
<u>BASIC SERVICES</u>				
Preliminary Phase	\$ 104,000.00	\$ 104,000.00	\$ 0.00	No requested change.
Design Phase	\$ 150,000.00	\$ 18,000.00	\$ 84,800.00	Additional Design work required for added structural items for dual pipe outfall and future bypass pumping location. Also includes design of temporary haul routes for project.
Construction Phase	\$ 45,000.00	\$ 0.00	\$ 0.00	No requested change.
Total – Additional Services	\$ 299,000.00	\$ 122,000.00	*Add \$84,800	
<u>ADDITIONAL SERVICES</u>				
Topographic Survey and Tree Survey	\$ 25,000.00	\$ 24,985.50	\$ 3,000.00	Additional Topo required along N. Kansas and within Clear Creek (reallocate \$3,000 from Mapping Assistance for PJD.
Mapping Assistance for PJD	\$ 5,000.00	\$ 675.00	\$ (-3,000.00)	Reallocate \$3,000 of this fee to Topo Survey.
Miscellaneous Meetings and Project Coordination	\$ 20,000.00	\$ 775.00	\$ 0.00	No requested change.
Project Coordination with General Land Office (GLO)	\$ 10,000.00	\$ 0.00	\$ (-9,680.00)	Reallocate \$4,180 to Geotechnical and \$5,500 to Environmental from this fee.
Geotechnical Engineering Report (Terracon)	\$ 6,270.00	\$ 6,270.00	\$ 4,180.00	Require additional boring and recommendation for combined outfall structure and coffer dam in Clear Creek (reallocate \$4,180 from GLO fee).
Environmental Services (EcoLogic)	\$ 38,500.00	\$ 22,825.00	\$ 5,500.00	Require meeting with USACE and field investigation for 4 th Street historical tributary determination (reallocate \$5,500 from GLO fee).
Urban Forestry Consultation (C.N. Koehl)	\$ 5,985.00	\$ 2,090.00	\$ 0.00	No requested change.



Mr. John Lothrop

Page 3

March 14, 2017

Reimbursable Expenses	\$ 10,000.00	\$ 171.60	\$ 0.00	No requested change.
Total – Additional Services	\$ 120,755.00	\$ 57,792.10	Net Change \$0.00	
Total Project	\$ 419,755.00	\$ 179,792.10	*Add \$84,800	Total Fee Request Increase = \$84,800

*The combined additional fees requested for Basic Services (Final Design) is **\$84,800**, which can be attributed to the required design for the added infrastructure items. Please see the attached **Revised Exhibit "G"**, which will amend the **Exhibit "G"** in original authorization.

The GLO coordination will not be required for this project; thus, providing funding needed for the additional geotechnical and environmental work. Also, a reduction of \$3,000 in the PJD Mapping Assistance Fee can accommodate the additional surveying work. It is important to note that the total Additional Services Fee will remain at \$110,755 after the re-allocations are performed.

All other items, as expressed in the original contractual agreement remain the same.

Sincerely,

David Warner, P.E.
Project Manager

James C. Jones, P.E.
Senior Vice President

DWW/jcj

K:\05523\05523-0004-00 City of League City - Dallas Salmon Outfall\Project Management\Job Setup\Proposal Amendment - COLC Dallas Salmon Effluent Line 03 14 2017.docx

Enclosure(s)

REVISED EXHIBIT "G"
3/14/2017

JC Level of Effort Description for the City of League City - Dallas Salmon Outfall Project		\$ 225.00	\$ 220.00	\$ 155.00 Senior Engineer (QA/QC)	\$ 135.00	\$ 110.00	\$ 92.00	\$ 84.00	\$ 120.00	\$ 60.00	
		Client Manager	Project Manager	Project Engineer	Grad Engineer	Assoc. Engineer	CAD Operator	GIS Operator	Admin Asst.	Labor Total	
PER Phase	Initial Meeting and Coordination with City to define Project Parameters	8	8		8				2	\$	4,760
	Identify, consult with, and analyze jurisdictional requirements	10	15		40	15	40		10	3	\$ 17,650
	Analysis of Alternatives	10	20		20		30		15		\$ 13,910
	Meetings with Client, Sub-Consultants, and Jurisdictional Entities - Review of Potential Solutions	30	30		30						\$ 17,400
	Collection and Assessment of City Records		5		10	15	15				\$ 5,480
	Public and Private Utility Research, Collection and Assessment		5		10	10	20				\$ 5,390
	Coordination with City, Sub-Consultants, Survey, etc.	5	5		20		20	5	5	2	\$ 7,905
	Site Visit, Topographic Survey Verification		10		10						\$ 3,550
	Preliminary Alignment Design & Preparation of Drawings	10	10		20	5		30			\$ 10,220
	Preliminary Construction Cost Estimation		5		10		10				\$ 3,370
	QA/QC of Preliminary Drawings and Estimates			10							\$ 1,550
	QA/QC of Preliminary Drawings and Estimates	5	10		20	20	20			5	\$ 10,365
	Documentation of any additional recommendations (Easements, etc.)		5		10						\$ 2,450
		78	128	10	208	65	155	35	30	12	\$ 104,000
Design Phase	Prepare & Monitor budget, schedule, scope and quality	5	40	10	20					10	\$ 14,775
	Prepare Quantity Takeoff and/or Engineer's Opinion of Probable Cost (30%,70%,90%, Final Design)	5	10	20	10	20	20			5	\$ 12,115
	Prepare Monthly progress/status reports (or as requested)	5	5		10		20			10	\$ 6,015
	Attend Progress/coordination conference/meetings/workshops (as requested)	20		20	20						\$ 10,300
	Coordination and Communication with Program staff and other Consultants	5	10		20					10	\$ 6,625
	Completion of Design and Deliverables for 30% Submittal (Plans & Estimate Only)	Assumes PER Phase is 30% Submittal									N/A
	Prepare and Submit 30% Deliverables to Program Team	5	10		10						\$ 4,675
	Coordinate design with Program Team (Sub-Consultants)		20		40	10					\$ 10,900
	Review and Assess All Sub-Consultant Reports, Client Comments, etc.		10		20						\$ 4,900
	Completion of Design and Deliverables for 70% Submittal (Plans, Specifications, & Estimates)	10	20	20	40	10	20	60		10	\$ 23,730
	Prepare and Submit 70% Deliverables to Program Team	5	10		10						\$ 4,675
	Review and Address Comments from Program Team		10		20						\$ 4,900
	Completion of Design and Deliverables for 90% Submittal (Plans, Details, Specifications, & Estimates)	10	20	20	40	10	20	60		10	\$ 23,730
	Prepare and Submit 90% Deliverables to Review Agencies and Client	5	10		10						\$ 4,675
	Review and Address Comments from Agency & Client Reviews		10		20						\$ 4,900
	Completion of Design and Deliverables for FINAL Submittal (All Documents)	5	10	10	20		20			10	\$ 9,855
	Prepare and Submit FINAL Deliverables - Drawings, Specifications, and Estimates to Program Team	5	5		5		4				\$ 3,230
	*Additional Design Items Identified during the PER Phase										
	<i>*Reinforced Concrete Box Culvert (estimated at 10'X8' from 7th Street to Clear Creek, 10'X6' from Fire Training Facility to 7th Street) to accommodate the N. Kansas Ave. Roadway project.</i>	4	12	16	20	24	40	40			\$ 18,400
	<i>*Accommodation of 2017 BFE revision, upsizing and design of larger effluent piping (from 7th Street to Clear Creek)</i>	2	4	6	10	12	12	40			\$ 9,426
	<i>*Design of Combined Outfall Structure (Effluent and Drainage Box) Sizing, including coffer dam, design and preparation of plans</i>	8	12	24	40	40	40	40			\$ 25,000
	<i>*Design of Junction Structure for Future Connection to 60-inch pipe (accommodate future pump station) - Sizing, design and preparation of plans</i>	5	5	5	12	16	16	24			\$ 9,868
	<i>*Design of Ultimate Paving Cross Section for 7th Street/ N. Kansas. Design of ditch culvert tie-ins to accommodate drainage until N. Kansas project is constructed</i>	1	2	2	5	5	12	20			\$ 4,984
	<i>*Design of temporary access paving adjacent to 7th Street/N. Kansas Intersection to provide 7th Street resident access during construction.</i>	1	1	1	2	2	4	8			\$ 2,130
	<i>*Rehabilitation of approximately 100' of 48" DIP from Junction Box D to outfall.</i>	1	2	2	4	8	8	8			\$ 3,803
	<i>*Preparation of Bid Items and Specifications for Additional Items</i>	2	4	6	12	24	24	12		24	\$ 11,189
		109	242	162	420	181	236	336.51	0	89	\$ 234,800

Construction Phase	Coordinate Advertisement, Answer Questions during bidding phase		10		10						\$	3,550	
	Tabulate, Review and Assess Bids, Provide Recommendation of Award		5		10				13		\$	3,255	
	Attend Pre-Construction Meeting		8		8						\$	2,840	
	Provided review of Submittals & Shop Drawings	5	5	5	20		10				\$	6,620	
	Review Pay Estimates (Monthly (6))	4	8		8						\$	3,740	
	Site Vistis during Construction (1X Monthly - (6))		4		10	10	10				\$	4,250	
	Construction Consultation & Interpretation of Contract Documents, Drawings and Specifications	5	12	10	20	10	10				\$	10,035	
	Review final material and equipment tests for compliance with the drawings, specifications, and contract documents		10		20						\$	4,900	
	Collect Contractor Red-Lines and Create Record Drawings		5		10			40			\$	5,810	
		14	67	15	116	20	30	40	0	13	\$	45,000	
TOTAL BASIC SERVICES		\$ 383,800											
Additional Services			Adjusted Fee										
	*Topographic Survey and Tree Survey	Need Additional Topo along N. Kansas and within Clear Creek (adjusted fee by \$3,000 from Mapping Assistance for PJD)										\$ 28,000	
	*Mapping Assistance for PJD	Reduce Mapping Assistance fee by \$3,000 to accommodate Topo and Tree Survey for additional required survey work										\$ 2,000	
	Miscellaneous Meetings and Project Coordination (in Excess of BASIC SERVICES scope)	No Changes										\$ 20,000	
	*Project Coordination with General Land Office	Reduce this fee by \$4,180 to accommodate additional Geotechnical work and by \$5,500 fee to accommodate additional Environmental work (Total GLO fee reduction = \$9,680.00)										\$ 320	
	Reimbursable Expenses	No Changes										\$ 10,000	
	*Geotechnical Analysis (Terracon)	Need additional boring and recommendation for combined outfall structure and coffer dam in Clear Creek (reduced GLO fee by \$4,180 to accommodate).										\$ 10,450	
	*Environmental Services (EcoLogic)	Require meeting with USACE and field investigation for 4th Street historical tributary determination (reduced GLO fee by \$5,500 to accommodate).										\$ 44,000	
	Urban Forestry Consultation (C.N. Koehl)	No Changes										\$ 5,985	
TOTAL ADDITIONAL SERVICES		\$ 120,755											

*Denotes Revisions