
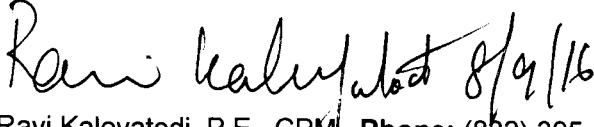
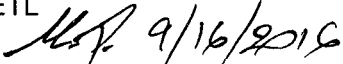




TO: Mayor via City Secretary

REQUEST FOR COUNCIL ACTION

SUBJECT: Professional Engineering Services Contract between the City and Lockwood, Andrews & Newnam, Inc., for Professional Engineering Services for the Design of Northeast Transmission Line. WBS No. S-000900-0300-3		Page 1 of 5	Agenda Item #
From: (Department or other point of origin): Department of Public Works and Engineering		Origination Date	Agenda Date
Director's Signature:  Dale A. Rudick, P.E., Director		Council District affected: B and E ✓	
For additional information contact:  Ravi Kaleyatodi, P.E., CPM Phone: (832) 395-2326 Senior Assistant Director		Date and identification of prior authorizing Council action: Ordinance No. 2015-1073, November 4, 2015 Ordinance No. 2015-1074, November 4, 2015 Ordinance No. 2015-1075, November 4, 2015 Ordinance No. 2015-1076, November 4, 2015 Ordinance No. 2015-1077, November 4, 2015 Ordinance No. 2015-1078, November 4, 2015	
RECOMMENDATION: (Summary) An ordinance approving a Professional Engineering Services Contract with Lockwood, Andrews & Newnam, Inc., and appropriate funds.			
Amount and Source of Funding: \$19,782,300.00 Total Cost \$11,809,341.40 from Fund No. 8507 - Water Authorities Capital Contribution Fund NETL \$7,972,958.60 from Fund No. 8508 - PWE-NETL Construction Fund 			
PROJECT NOTICE/JUSTIFICATION: This contract supports the execution of the Northeast Transmission Line projects from the Northeast Water Purification Plant to the Water Authorities take-points for the Infrastructure Capital Improvement Program. The Northeast Transmission Line projects provide professional engineering services to assist the City of Houston (City) in meeting the current and future system demands and technical support to City staff on various elements of the transmission system.			
DESCRIPTION/SCOPE: This appropriation will fund a number of specific tasks to maximize the City's use of available surface water from the Northeast Water Purification Plant. These tasks include various engineering services for the construction of new infrastructure. New infrastructure support includes feasibility studies, routing, and design for water transmission lines and appurtenances necessary to meet regulatory requirements. The net result of these efforts will improve water system reliability and operational efficiencies stemming from the consolidation of groundwater pump station facilities and improvements at the Northeast Water Purification Plant.			
LTS No. 15545		CUIC ID #20ACM90	
Finance Department:	Other Authorization:  Jun Chang, P.E., D.WRE Deputy Director Public Utilities Division	Other Authorization:  Carol Ellinger Haddock, P.E. Deputy Director Engineering and Construction Division	

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LOCATION: This contract provides engineering services for various projects located within Council Districts B and E including Key Map grid numbers 372 U, 372 V, 373 S, 373 T, 373 U, 373 V, 374 S, 374 T, 374 U, 374 W, 374 X, 374 Y, 374 Z, 375 S, 375 T, 375 U, 375 V, 375 W, 375 X, 375 Z, 376 V, 376 W, 376 X, 376 Y, 376 Z and 377 W.

SCOPE OF CONTRACT AND FEE (PREVIOUS HISTORY): Under the scope of this contract, the consultant will perform program management (supporting the City's management of the proposed design efforts), phase I - preliminary design, phase II - final design, phase III - construction services and additional services. The basic services fee for phase I is based on the cost of time and materials with a not-to-exceed agreed upon amount. The basic services fee for phase II and phase III will be negotiated on a lump sum basis after completion of phase I. The total basic services appropriation is \$11,386,000.00.

The contract includes certain additional services to be paid either as lump sum or on a reimbursable basis. The additional services include public meetings, surveying, geotechnical investigations, phases I and II environmental services, traffic control, surge analysis, and real estate assistance. Technical support encompasses specialized engineering services required for developing technical criteria for the transmission water line, water system modeling and City support efforts. The total additional services, technical support, and program management appropriation is \$5,816,000.00.

The total requested appropriation is \$19,782,300.00 to be appropriated as follows: \$17,202,000.00 for contract services and \$2,580,300.00 for CIP cost recovery.

The contract also helps to meet the obligations the City has entered into with the Water Authorities. On November 4, 2015, City Council approved the Third Supplement to Water Supply Contract with the Authorities which consisted of North Fort Bend Water Authority, Central Harris County Regional Water Authority, North Harris County Regional Water Authority and West Harris County Regional Water Authority by Ordinance Numbers 2015-1073, 2015-1074, 2015-1076 and 2015-1078, respectively. The City Council also approved the Fourth Supplement to Water Supply Contract with the Authorities which consisted of Central Harris County Regional Water Authority and North Harris County Regional Water Authority on November 4, 2015 by Ordinance Numbers 2015-1075 and 2015-1077. These supplements were for the cost sharing of the design and construction of water transmission lines from Houston's Northeast Water Purification Plant to these Water Authorities' transmission and distribution systems. According to the Third and Fourth Supplements to the Water Supply Contract between the City of Houston (City) and other Water Authorities (Authority), the percentage of participants' share for the project engineering efforts are as follow:

Segment 1

<u>WBS No.</u>	<u>Project Name</u>	<u>Engineer of Record</u>	<u>District</u>	<u>Key Map</u>	<u>Percentage of Participants' Share</u>	<u>Design Fees¹</u>
S-000900-174A	120-inch WL along City Easements from NEWPP (Fence) to east of Union Pacific Railroad. Sub-Segment A	AECOM Technical Services, Inc.	E	376 Z, 377 W	84% Authority	\$1,094,800.00
					16% City	
S-000900-174B	96-inch stub-out from 120-inch WL along City Easements from NEWPP (Fence) to east of Union Pacific Railroad. Sub-Segment B	AECOM Technical Services, Inc.	E	376 Z, 377 W	100% Authority	\$218,500.00
					0% City	
S-000900-301A	Technical Support for the Design of Northeast Transmission Line - Segment 1A	Lockwood, Andrews & Newnam, Inc.	E	376 Z, 377 W	84% Authority	\$202,400.00
					16% City	
S-000900-301B	Technical Support for the Design of Northeast Transmission Line - Segment 1B	Lockwood, Andrews & Newnam, Inc.	E	376 Z, 377 W	100% Authority	\$67,850.00
					0% City	

1. Including additional services and 15% CIP cost recovery

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Segment 2

<u>WBS No.</u>	<u>Project Name</u>	<u>Engineer of Record</u>	<u>District</u>	<u>Key Map</u>	<u>Percentage of Participants' Share</u>	<u>Design Fees¹</u>
S-000701-0040	Clearing And Grubbing Work Order for Northeast Transmission Water Lines	Lockwood, Andrews & Newnam, Inc.	B	Various	57.33% Authority	\$287,500.00
					42.67% City	
S-000900-0154	108-inch Water Line along City Easements from Union Pacific Railroad to John Ralston Rd	Aurora Technical Services	B	376 X, Y, V, Z	57.33% Authority	\$4,120,450.00
					42.67% City	
S-000900-0155	108-inch Water Line along City Easements from John Ralston Rd to Bellow Falls Ln	Brown & Gay Engineers	B	375 V, Z, 376 W, X	57.33% Authority	\$4,764,450.00
					42.67% City	
S-000900-0157	108-inch Water Line along City Easements from Milner Rd to Aldine Westfield Rd	KIT Professionals, Inc.	B	373 V, 374 S, W	57.33% Authority	\$3,577,650.00
					42.67% City	
S-000900-0164	108-inch Water Line along City Easements from Vickery Dr to Milner Rd	Dannenbaum Engineering Corp.	B	374 S, X, T, U	57.33% Authority	\$3,315,450.00
					42.67% City	
S-000900-0302	Technical Support for the Design of Northeast Transmission Line - Segment 2	Lockwood, Andrews & Newnam, Inc.	B	Various	57.33% Authority	\$2,133,250.00
					42.67% City	

1. Including additional services and 15% CIP cost recovery

The proposed budgeted funding allocation for the aforementioned support services is outlined below:

• Program Management	\$1,705,000.00
• Engineering Project Design Services	\$13,257,000.00
• Technical Support	\$890,000.00
• Contingency	\$1,350,000.00
Total	\$17,202,000.00

PAY OR PLAY PROGRAM: The proposed contract requires compliance with the City's 'Pay or Play' ordinance regarding health benefits for employees of City contractors. In this case, the consultant provides health benefits to eligible employees in compliance with City policy.

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M/WBE PARTICIPATION: The M/WBE goal established for this contract is 24%. Assuming approval of the requested appropriation, the contract amount will be \$17,202,000.00. The engineer proposes the following plan to meet the M/WBE goal participation:

<u>Name of M/WBE Firms</u>	<u>Work Description</u>	<u>Amount</u>	<u>% of Total Contract</u>
1. Amani Engineering, Inc.	Engineering Support, Surveying Services, Permits	\$500,000.00	2.91%
2. Associated Testing Laboratories, Inc.	Geotechnical Investigations	\$43,000.00	0.25%
3. Aurora Technical Services, LLC	Design Consultant, Engineering Support, Limited Construction Phase Services	\$1,740,000.00	10.12%
4. Aviles Engineering Corporation	Geotechnical Investigations, Environmental Site Assessments	\$240,000.00	1.39%
5. B&E Reprographics, Inc.	Reproduction Services	\$53,000.00	0.31%
6. Entech Civil Engineers, Inc.	Engineering Support, Traffic Control Services, Storm Water Pollution Prevention Services, Permits	\$200,000.00	1.16%
7. Geotest Engineering, Inc.	Geotechnical Investigations, Environmental Site Assessments	\$170,000.00	0.99%
8. Gurrola Reprographics, Inc.	Reproduction Services	\$13,000.00	0.08%
9. HVJ Associates, Inc.	Geotechnical Investigations, Environmental Site Assessments	\$160,000.00	0.93%
10. KIT Professionals, Inc.	Design Consultant, Engineering Support, Limited Construction Phase Services, Traffic Control Services, Storm Water Pollution Prevention Services, Street Lighting	\$2,280,000.00	13.25%
11. Kuo & Associates, Inc.	Engineering Support, Surveying Services, Traffic Control Services, Storm Water Pollution Prevention Services	\$290,000.00	1.69%
12. Nathelyne A. Kennedy & Associates, L.P.	Limited Construction Phase Services	\$135,000.00	0.78%
13. Rahaman and Associates, Inc., dba Western Group Consultants	Surveying Services	\$125,000.00	0.73%
14. Texas American Engineering, LLC	Limited Construction Phase Services	\$80,000.00	0.46%
15. TLC Engineering, Inc.	Traffic Control Services	\$25,000.00	0.14%
16. Zarinkelk Engineering Services, Inc.	Engineering Support, Storm Water Pollution Prevention Services	\$60,000.00	0.35%
17. MWBE Firms TBD from Contingency Funding	Various Services	\$100,000.00	0.58%
TOTAL M/WBE		\$6,214,000.00	36.12%

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Non-MWBE firms to be used in the contract:

<u>Name of Firms</u>	<u>Work Description</u>	<u>Amount</u>	<u>% of Total Contract</u>
1. AECOM Technical Services, Inc.	Design Consultant, Engineering Support, Limited Construction Phase Services, Traffic Control Services, Storm Water Pollution Prevention Services	\$570,000.00	3.31%
2. Brown & Gay Engineers, Inc.	Design Consultant, Engineering Support, Limited Construction Phase Services, Permits	\$2,250,000.00	13.08%
3. Burditt Consultants, LLC	Tree Protection Services	\$12,000.00	0.07%
4. C.N. Koehl Urban Forestry, Inc.	Tree Protection Services	\$30,000.00	0.17%
5. Dannenbaum Engineering Corporation	Design Consultant, Limited Construction Phase Services	\$1,500,000.00	8.72%
6. Freese and Nichols, Inc.	Engineering Support	\$200,000.00	1.16%
7. Klotz Associates, Inc. dba RPS Klotz Associates	Engineering Support, Permits	\$20,000.00	0.12%
8. MBCO Engineering, LLC	Environmental Site Assessment Services	\$30,000.00	0.17%
9. Parsons Water & Infrastructure, Inc.	Engineering Support	\$225,000.00	1.31%
10. Firms TBD for Contingency Funding	Various Services	\$400,000.00	2.33%
TOTAL		\$5,237,000.00	30.44%

ESTIMATED FISCAL OPERATING IMPACT:

PROJECT WBS#	FY17	FY18	FY19	FY20	FY21	FY17-FY21 Total
S-000900-174A-3	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
S-000900-174B-3	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
S-000900-301A-3	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
S-000900-301B-3	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
S-000701-0040-3	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
S-000900-0154-3	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
S-000900-0155-3	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
S-000900-0157-3	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
S-000900-0164-3	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
S-000900-0302-3	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

No significant Fiscal Operating impact is anticipated as a result of this project.

DAR: CEH:RKSD:ACM:VP:KDT

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