



DuPage Water Commission

600 E. Butterfield Road, Elmhurst, IL 60126-4642
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AGENDA

ENGINEERING & CONSTRUCTION COMMITTEE

THURSDAY, APRIL 18, 2019

6:00 P.M.

**600 EAST BUTTERFIELD ROAD
ELMHURST, IL 60126**

COMMITTEE MEMBERS

J. Fennell, Chair

D. Bouckaert

F. Saverino

J. Zay

- I. Roll Call
- II. Approval of Committee Meeting Minutes

RECOMMENDED MOTION: To approve the Minutes of the March 21, 2019 Regular Engineering & Construction Committee Meeting of the DuPage Water Commission.

- III. Report of Status of Construction/Operations
- IV. **R-14-19:** A Resolution Approving and Ratifying Certain Contract TW-3 Change Orders (**Benchmark Construction – Contract Time Extension and Reduction of Retainage – No Cost This Action**)
- V. **R-15-19:** A Resolution Approving a 2-year Contract Time Extension of Contract QR-11/17 (**John Neri Construction Co. Inc. and Rossi Contractors, Inc. – No Cost This Action**)
- VI. **R-16-19:** A Resolution Approving and Ratifying Certain Task Orders under a Master Contract with AECOM Technical Services (**Vulnerability Assessment and Emergency Response Plan – Not to Exceed \$199,202.00**)
- VII. **R-17-19** A Resolution Approving and Ratifying Certain Work Authorization Orders Under Quick Response Electrical Contract QRE-8/17 (**McWilliams Electric Co., Inc. – Estimated Cost of \$3,750.00**)
- VIII. **RFBA:** A Two (2) Year Work Wear Supply Unit Price Contract for Employee Uniforms (**Villa Park Electrical Supply Co., Inc. – Estimated Cost \$24,755.00**)
- IX. Old Business
- X. Other
- XI. Adjournment

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All visitors must present a valid drivers license or other government-issued photo identification, sign in at the reception area and wear a visitor badge while at the DuPage Pumping Station.

**MINUTES OF THE MEETING OF THE
ENGINEERING & CONSTRUCTION COMMITTEE
OF THE DUPAGE WATER COMMISSION
HELD ON THURSDAY, MARCH 21, 2019
600 EAST BUTTERFIELD ROAD
ELMHURST, ILLINOIS**

The meeting was called to order at 6:00 P.M.

Committee members in attendance: D. Bouckaert, J. Fennell, and J. Zay (arrived 6:09 P.M.)

Committee members absent: F. Saverino

Also in attendance: C. Bostick, D. Cuvalo, E. Kazmierczak, T. McGhee, J. Schori, J. Spatz, A. Stark and M. Weed.

General Manger Spatz started the discussion with the update of the contractor's billing regarding the watermain repair on North Avenue in Carol Stream. General Manager Spatz advised the Members present the original estimate for the work was approximately \$200,000.00 and the final bill is approximately \$486,000.00 which the General Manager intended to pay. Chairman Fennell inquired as to the reasoning for the cost overrunning the estimate to which General Manager Spatz replied citing several unanticipated difficulties encountered during the lining process.

General Manager Spatz then advised the Members present that during his trip to Springfield for the AWWA conference, water utilities will be required to update and submit revised formal Vulnerability Assessments (VA) which were last required in 2003. General Manager Spatz advised that Staff has performed several informal unsubmitted updates in the meantime. General Manager Spatz advised the Members of this to inform them of his intent to seek a proposal from the engineering firm that completed the last VA and last condition assessment. The new VA update proposal would be brought back to the Board for consideration next month. General Manager Spatz further explained that besides the VA, an updated Emergency Response Plan will be required utilizing the data collected during the VA.

At 6:09 P.M., Commissioner Bouckaert moved to approve the Minutes of the February 21, 2019 Engineering & Construction Committee Meeting of the DuPage Water Commission. Motion seconded by Chairman Zay and unanimously approved by a roll vote.

Ayes: D. Bouckaert, J. Fennell, and J. Zay

Nays: None

Absent F. Saverino

Regarding R-9-19, Facilities Construction Supervisor Bostick advised the Committee the request purchase and install Phase 2 of the intelligent key security system is in continuance of the successful implementation of the program to replace all door keys on Commission properties with a higher level of security with the flexibility of programming access. Facilities Construction Supervisor Bostick also advised the Committee the purchase and installation are through a U.S. Government Purchasing Cooperative (GSA Advantage) approved vendor.

Regarding R-10-19, Facilities Construction Supervisor Bostick advised the Committee that QRE Contract Work Authorization Order No. 8 is for ratification since the work had been performed. Facilities Construction Supervisor Bostick informed the Committee that ComEd, prior to the Commission relocating an underground electric service line, during installation of a new power pole had damaged the Commission's electric service line. Facilities Construction Supervisor Bostick explained further that while the Commission was required to relocate the electric service at Commission expense, the Commission has filed a claim with ComEd for the additional expense incurred due to the negligence of ComEd.

Regarding R-11-19, Facilities Construction Supervisor Bostick advised the Committee the execution of the DuPage Emergency Dispatch Interoperable Radio System Access Talk Group Agreement between the DuPage Water Commission and DuPage County Emergency Telephone System Board ("DUPAGE ETSB") to access the DuPage Emergency Dispatch Interoperable Radio System ("DEDIRS") is an extension of agreements previously in place to provide an updated form of emergency communications between entities in case of area wide emergency declarations.

Regarding R-12-19, Facilities Construction Supervisor Bostick advised the Committee that Task Order No. 4 with Strand Associates for assistance with revision of the Request for Proposal (RFP) for the Design, Bidding-Related, and Construction-Related services for the Commission's SCADA System Replacement, Backhaul System, and Security Related Upgrades. General Manger Spatz also informed the Committee that after discussions with potential engineering firms, based on the criteria set forth in the RFP, the engineering firms' opinions of costs for the construction of the SCADA system would run between \$7MM and \$11MM where previous opinions of cost were in the range of \$5MM. Chairman Zay inquired as to the difference of cost opinion and General manager Spatz indicated that based upon his previous investigation that he had provided the opinion to which Manager of Water Operations McGhee added that the scope of work also had been expanded to include other capabilities including security.

Regarding R-13-19, Facilities Construction Supervisor Bostick advised the Committee that while Electrical safety Studies at Remote Facilities had been concluded last year, The Commission has approved electrical modifications to the Tank Site No. 1 Pump station which requires additional safety studies, and additional equipment at all remote facilities had been omitted from the original study and the 1st Amendment to Task Order No. 5 with AECOM Technical Services will bring the project to conclusion.

Engineering Committee Minutes 03/21/2019

Chairman Fennell inquired with the Committee if there were any questions regarding the action items. Hearing none, Commissioner Bouckaert moved to recommend approval of items 2 through 6 of the Engineering and Construction Committee portion of the Commission Agenda. Seconded by Chairman Zay and unanimously approved by a roll call vote.

Ayes: D. Bouckaert, J. Fennell, and J. Zay

Nays: None

Absent F. Saverino

Regarding the Village of Bartlett water service, Facilities Construction Supervisor Bostick advised the Committee that Benchmark Construction has installed and has successfully pressure tested the 30" diameter supply side transmission main; Benchmark continues on with the Bartlett system distribution main improvements; the Metering Station contract is on schedule and will be able to accept water within the week; the Bartlett Receiving Station , being built by Bartlett, is experiencing some delays. Facilities Construction Supervisor Bostick advised the Committee that the Village of Bartlett is attempting to negotiate with the City of Elgin to continue supplying the Village should the Bartlett Receiving Station project be delayed beyond the May 15th Elgin/Bartlett water supply agreement expiration date.

Chairman Fennell inquired as to trending of water sales. Manager of Water Operations McGhee confirmed that over the past decade that sales have been trending downward and his opinion was that it was partially due to the increase of low-flow plumbing fixture installation has been on the rise and his belief is that the trend line will begin to flatten out.

Chairman Fennell inquired the Committee if any other business or other items to be discussed.

With no other items coming before the Committee, Commissioner Bouckaert moved to adjourn the meeting at 6:27 P.M. Motion seconded by Chairman Zay and unanimously approved by a roll call vote.

Ayes: D. Bouckaert, J. Fennell, and J. Zay

Nays: None

Absent F. Saverino


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DuPage Water Commission

MEMORANDUM

TO: John Spatz
General Manager

FROM: Terry McGhee 
Manager of Water Operations

Ed Kazmierczak	Pipeline Supervisor
Chris Bostick	Facilities Construction Supervisor
John Schori	Instrumentation Supervisor
Frank Frelka	GIS Coordinator
Mike Weed	Operations Supervisor

DATE: April 10, 2019

SUBJECT: Status of Operations

Operations Overview

The Commission's sales for the month of March were a total of 1.94 billion gallons. This represents an average day demand of 62.7 million gallons per day (MGD), which is lower than the March 2018 average day demand of 63.7 MGD. The maximum day demand was 68.5 MGD recorded on March 04, 2019, which is higher than the March 2018 maximum day demand of 68.3 MGD. The minimum day flow was 57.4 MGD.

The Commission's recorded total precipitation for the month of March was 3.70 inches compared to 1.74 inches for March 2018. The level of Lake Michigan for March 2019 is 580.3 (Feet IGLD 1985) compared to 579.9 (Feet IGLD 1985) for March of 2018.

Water Conservation

Ongoing: Staff worked with the Villages of Clarendon Hills and Westmont on the design of the Richmond Education Gardens & Apiary underground cistern system that the Commission helped sponsor. The Village of Westmont's contractor is scheduled to start and complete the concrete work this spring. Brick will likely be installed late-spring, early summer. All underground work, including the installation of the cistern, has been completed.

Memos have been added to dpwc.org on the following items:

- The DWC Water Journey and Water Conservation Program was presented to the fifth-grade class at Hawthorne Elementary School in Elmhurst on March 13th
- Winfield Cub Scout Pack attended a presentation and tour on March 26th

An Elmhurst Girl Scout Troop is scheduled to attend a presentation and tour on May 3rd.

SCARCE set up a tour and presentation with Elmhurst Cool Cities and garden club on May 7th.

A SCARCE teacher tour and presentation is scheduled for June 24th.

Bartlett Water Service

Benchmark Construction has completed the installation of all pipe, valves and pipe casings and successfully pressure tested all the feeder main. Benchmark is working on punch-list items and restoration however the remaining restoration work will be delayed until Spring 2019. Change Order No. 3 from Benchmark Construction appears on the agenda requesting a time extension to complete the restoration work and a reduction in Contact retention. Water main construction is nearing completion for the additional work on the Village of Bartlett distribution system.

Construction of Bartlett Meter Station 30A by the contractor, J.J. Henderson and Sons, Inc., is approximately 85% complete. The Contract Completion Date is April 19, 2019.

Instrumentation / Remote Facilities Overview

Resolution No. R-17-19 appears on the agenda seeking approval of Work Authorization Order No. 009 with Quick Response Electrical contractor McWilliams Electric Co., Inc. This work was issued and completed prior to board approval and was necessary to repair a damaged buried antenna cable for SCADA communications to Meter Station 22A in Willowbrook. The Commission was notified by Willowbrook Public Works that they dug up our antenna cable during repairs of the drainage system around their standpipe. The Commission's antenna is on the side of their standpipe. Willowbrook has agreed to pay for the repair. The estimated cost is \$3,750.00.

Pipeline Maintenance and Construction Overview

Leak repair work and temporary pavement restoration has been completed at the intersection of Kuhn Road and North Avenue in the Village of Carol Stream. Permanent pavement restoration will take place in the spring.

Pipeline staff also continues inspection and repair work on distribution system blow off valves.

Resolution R-15-19 appears on the agenda as a request to extend the contract term limits of Quick Response Contract QR-11/17 for an additional 2 years. Staff has been pleased with the work of both its QR-11/17 contractors and believes that it would be in the Commission's best interest to exercise its option under the contract with respect to extending the contract term limits commencing on July 1, 2019, and ending on June 30, 2021 to both John Neri Construction Co. Inc. and Rossi Contractors, Inc.

Capital Improvement Program

No Change: CDM Smith has commenced engineering services for DuPage Pump Station and Administration Buildings rehabilitation which includes replacement of the Curtain Wall, replacement of the walls which surround the Commonwealth Edison Yard, and to remediate groundwater penetration through the West Discharge Tunnel.

No Change: Greeley and Hansen have commenced engineering services for DuPage Pump Station Disinfection Facilities rehabilitation which includes replacement and upgrading of chemical equipment, containment finishes, process piping, and wall finishes which are deteriorating naturally due to age and environmental conditions.

Knight E/A. Inc. has commenced engineering services for DuPage Pump Generation Facilities HVAC which includes upgrading of equipment room and mechanical cooling, adding humidification to work spaces and modifying rooftop access for maintenance purposes. Preliminary air and water testing work has commenced. This work will enable Knight to see what issues are present and how to best approach the design.

No Change: Strand Associates, Inc. has commenced engineering services for Tank Site and Meter Station site rehabilitation which includes replacement and safety upgrading of control vault structures, improve overland drainage, rehabilitate and improve security fencing and the rehabilitation and addition of paved surfaces. This work was suggested in the 2014 Condition Assessment.

APRIL 2019 COMMISSION AGENDA ITEMS:

- R-14-19:** A Resolution Approving and Ratifying Certain Contract TW-3 Change Orders (**Benchmark Construction – Contract Time Extension and Reduction of Retainage – No Cost This Action**)
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- RFBA:** A Two (2) Year Work Wear Supply Unit Price Contract for Employee Uniforms (**Villa Park Electrical Supply Co., Inc. – Estimated Cost \$24,755.00**)

Attachments

1. DuPage Laboratory Bench Sheets for March 2019
2. Water Sales Analysis 01-November-2014 to 31 March 2019
3. DuPage Water Commission Chart Sales vs. Historical Average
4. DuPage Water Commission Chart Sales vs. Allocation

<http://sp2013/Status%20of%20Operations/2019/190410.docx>

DUPAGE WATER COMMISSION LABORATORY BENCH SHEET
MONTHLY REPORT FOR MARCH 2019

LEXINGTON SUPPLY

DUPAGE DISCHARGE

DAY	FREE CL ₂	TURBIDITY	PO ₄	FREE CL ₂	TURBIDITY	TEMP	pH	Fluoride	PO ₄	P.A.C.	ANALYST
	mg/l	NTU	mg/l	mg/l	NTU	°F			mg/l	LBS/MG	INT
1	0.97	0.06	0.52	0.98	0.07	47	7.8	1.0	0.52	0	RC
2	0.99	0.07	0.54	0.72	0.12	53	7.7	1.0	0.54	0	CT
3	0.94	0.06	0.56	0.74	0.09	53	7.8	0.9	0.53	0	CT
4	0.92	0.06	0.55	0.99	0.08	46	7.8	1.2	0.53	0	RC
5	0.98	0.07	0.54	0.93	0.07	50	7.8	1.0	0.56	0	RC
6	0.97	0.08	0.55	0.94	0.11	50	7.7	1.0	0.52	0	CT
7	0.97	0.06	0.51	0.95	0.10	52	7.7	0.9	0.57	0	CT
8	0.99	0.06	0.48	0.84	0.08	49	7.7	1.0	0.56	0	CT
9	0.92	0.06	0.52	0.93	0.07	48	7.8	0.9	0.55	0	RC
10	1.02	0.06	0.57	0.95	0.07	52	7.8	0.9	0.54	0	RC
11	0.97	0.06	0.54	0.95	0.08	52	7.8	1.0	0.52	0	CT
12	1.02	0.07	0.55	0.90	0.09	51	7.8	0.9	0.50	0	CT
13	1.13	0.06	0.51	1.18	0.08	51	7.8	1.0	0.58	0	RC
14	0.94	0.07	0.51	0.94	0.07	50	7.8	0.9	0.53	0	RC
15	1.11	0.06	0.53	0.96	0.09	51	7.8	0.9	0.52	0	RC
16	0.96	0.08	0.57	0.84	0.09	49	7.7	0.9	0.57	0	AM
17	1.01	0.07	0.52	1.00	0.08	50	7.8	1.0	0.53	0	RC
18	0.96	0.07	0.53	1.02	0.07	51	7.8	1.0	0.56	0	RC
19	1.02	0.06	0.52	1.00	0.07	52	7.8	0.9	0.55	0	RC
20	0.99	0.07	0.55	0.96	0.08	53	7.8	0.9	0.56	0	AM
21	1.00	0.08	0.51	0.90	0.09	54	7.7	0.9	0.55	0	AM
22	0.97	0.07	0.52	0.86	0.09	52	7.7	0.9	0.57	0	AM
23	1.01	0.06	0.50	0.82	0.10	52	7.8	0.8	0.59	0	KD
24	1.00	0.07	0.56	0.74	0.11	53	7.7	0.9	0.55	0	KD
25	1.00	0.08	0.50	0.80	0.10	50	7.7	0.9	0.53	0	AM
26	0.97	0.06	0.51	1.00	0.08	51	7.8	0.9	0.55	0	RC
27	1.00	0.07	0.55	0.71	0.10	52	7.7	1.0	0.52	0	KD
28	1.00	0.06	0.58	0.70	0.12	52	7.8	0.8	0.57	0	KD
29	0.91	0.06	0.54	0.71	0.12	52	7.8	0.9	0.54	0	KD
30	1.00	0.06	0.54	0.74	0.12	52	7.8	0.9	0.51	0	KD
31	1.01	0.06	0.53	1.03	0.09	54	7.8	0.9	0.58	0	RC
AVG	0.99	0.07	0.53	0.89	0.09	51	7.8	0.9	0.55	0	
MAX	1.13	0.08	0.58	1.18	0.12	54	7.8	1.2	0.59	0	
MIN	0.91	0.06	0.48	0.70	0.07	46	7.7	0.8	0.50	0	



Terrance McGhee
Manager of Water Operations

DU PAGE WATER COMMISSION
WATER SALES ANALYSIS

01-May-92 TO 31-Mar-19

PER DAY AVERAGE 78,937,838

MONTH	SALES TO CUSTOMERS (GALLONS)	PURCHASES FROM CHICAGO (GALLONS)	GALLONS BILLED %	BILLINGS TO CUSTOMERS	BILLINGS FROM CHICAGO	DOCUMENTED COMMISSION WATER USE (2)	DOCUMENTED COMMISSION WATER USE %	TOTAL ACCOUNTED FOR %	DWC OPER. & MAINT. RATE (3)	CHGO RATE
May-15	2,215,394,000	2,283,051,057	97.04%	\$10,744,660.90	\$8,705,273.68	649,444	0.03%	97.06%	\$4.85	\$3.813
Jun-15	2,196,780,000	2,266,453,659	96.93%	\$10,654,383.00	\$8,641,987.80	468,148	0.02%	96.95%	\$4.85	\$3.813
Jul-15	2,448,256,000	2,522,026,667	97.07%	\$11,874,041.60	\$9,616,487.68	6,454,619	0.26%	97.33%	\$4.85	\$3.813
Aug-15	2,723,202,000	2,807,092,033	97.01%	\$13,207,529.70	\$10,703,441.92	1,048,363	0.04%	97.05%	\$4.85	\$3.813
Sep-15	2,341,098,000	2,428,433,496	96.40%	\$11,354,325.30	\$9,269,616.92	870,425	0.04%	96.44%	\$4.85	\$3.813
Oct-15	2,188,762,000	2,250,656,585	97.25%	\$10,615,495.70	\$8,581,753.56	1,989,028	0.09%	97.34%	\$4.85	\$3.813
Nov-15	1,894,247,000	1,942,187,317	97.53%	\$9,187,097.95	\$7,405,560.24	1,150,890	0.06%	97.59%	\$4.85	\$3.813
Dec-15	1,953,066,000	2,011,680,976	97.09%	\$9,472,370.10	\$7,670,539.56	516,414	0.03%	97.11%	\$4.85	\$3.813
Jan-16	2,033,443,000	2,091,170,472	97.24%	\$9,862,198.55	\$7,973,633.01	862,718	0.04%	97.28%	\$4.85	\$3.813
Feb-16	1,888,296,000	1,941,985,366	97.24%	\$9,158,235.60	\$7,404,790.20	563,984	0.03%	97.26%	\$4.85	\$3.813
Mar-16	1,944,058,000	1,996,231,707	97.39%	\$9,428,681.30	\$7,611,617.24	6,400,732	0.32%	97.71%	\$4.85	\$3.813
Apr-16	1,984,449,000	2,039,789,593	97.29%	\$9,624,577.65	\$7,777,717.72	9,448,858	0.46%	97.75%	\$4.85	\$3.813
May-16	2,268,225,000	2,338,752,195	96.98%	\$10,887,480.00	\$8,917,662.12	274,300	0.01%	97.00%	\$4.80	\$3.813
Jun-16	2,454,342,000	2,529,910,244	97.01%	\$11,780,841.60	\$9,646,547.76	5,182,282	0.20%	97.22%	\$4.80	\$3.813
Jul-16	2,641,551,000	2,744,681,626	96.24%	\$12,679,444.80	\$10,465,471.04	585,600	0.02%	96.26%	\$4.80	\$3.813
Aug-16	2,533,936,000	2,608,237,398	97.15%	\$12,162,892.80	\$9,945,209.20	701,544	0.03%	97.18%	\$4.80	\$3.813
Sep-16	2,369,372,000	2,450,251,707	96.70%	\$11,372,985.60	\$9,342,809.76	6,309,731	0.26%	96.96%	\$4.80	\$3.813
Oct-16	2,060,379,000	2,130,675,122	96.70%	\$9,889,819.20	\$8,124,264.24	3,337,311	0.16%	96.86%	\$4.80	\$3.813
Nov-16	1,889,508,000	1,958,403,252	96.48%	\$9,069,638.40	\$7,467,391.60	9,473,395	0.48%	96.97%	\$4.80	\$3.813
Dec-16	2,041,053,000	2,106,979,512	96.87%	\$9,797,054.40	\$8,033,912.88	750,196	0.04%	96.91%	\$4.80	\$3.813
Jan-17	2,029,392,000	2,086,470,244	97.26%	\$9,741,081.60	\$7,955,711.04	650,780	0.03%	97.30%	\$4.80	\$3.813
Feb-17	1,780,930,000	1,839,102,439	96.84%	\$8,548,464.00	\$7,012,497.60	502,527	0.03%	96.86%	\$4.80	\$3.813
Mar-17	1,921,309,000	1,973,392,520	97.36%	\$9,222,283.20	\$7,524,545.68	6,065,580	0.31%	97.67%	\$4.80	\$3.813
Apr-17	1,924,126,000	1,983,669,593	97.00%	\$9,235,804.80	\$7,563,732.16	662,965	0.03%	97.03%	\$4.80	\$3.813
May-17	2,140,566,000	2,206,451,707	97.01%	\$10,445,962.08	\$8,413,200.36	379,600	0.02%	97.03%	\$4.88	\$3.813
Jun-17	2,572,903,000	2,661,987,535	96.65%	\$12,555,766.64	\$10,336,497.60	667,640	0.03%	96.68%	\$4.88	\$3.883
Jul-17	2,566,373,000	2,651,891,218	96.78%	\$12,523,900.24	\$10,297,293.60	1,208,200	0.05%	96.82%	\$4.88	\$3.883
Aug-17	2,612,422,000	2,708,475,467	96.45%	\$12,748,619.36	\$10,517,010.24	819,943	0.03%	96.48%	\$4.88	\$3.883
Sep-17	2,649,184,000	2,745,958,980	96.48%	\$12,928,017.92	\$10,662,558.72	4,256,488	0.16%	96.63%	\$4.88	\$3.883
Oct-17	2,162,489,000	2,234,875,921	96.76%	\$10,552,946.32	\$8,678,023.20	9,352,175	0.42%	97.18%	\$4.88	\$3.883
Nov-17	1,910,959,000	1,985,437,054	96.25%	\$9,325,479.92	\$7,709,452.08	11,479,542	0.58%	96.83%	\$4.88	\$3.883
Dec-17	2,030,983,000	2,097,595,921	96.82%	\$9,911,197.04	\$8,144,964.96	1,385,950	0.07%	96.89%	\$4.88	\$3.883
Jan-18	2,125,171,000	2,190,683,966	97.01%	\$10,370,834.48	\$8,506,425.84	2,817,595	0.13%	97.14%	\$4.88	\$3.883
Feb-18	1,845,800,000	1,908,547,989	96.71%	\$9,007,504.00	\$7,410,891.84	952,406	0.05%	96.76%	\$4.88	\$3.883
Mar-18	1,968,078,000	2,042,128,006	96.37%	\$9,604,220.64	\$7,929,575.28	590,499	0.03%	96.40%	\$4.88	\$3.883
Apr-18	1,941,546,000	2,002,331,558	96.96%	\$9,474,744.48	\$7,775,053.44	3,904,397	0.19%	97.16%	\$4.88	\$3.883
May-18	2,285,706,000	2,361,461,303	96.79%	\$11,291,387.64	\$9,169,554.24	1,218,779	0.05%	96.84%	\$4.94	\$3.883
Jun-18	2,298,459,000	2,397,747,162	95.86%	\$11,354,387.71	\$9,454,317.06	2,994,035	0.12%	95.98%	\$4.94	\$3.943
Jul-18	2,709,111,000	2,805,244,664	96.57%	\$13,383,008.34	\$11,061,079.71	1,050,752	0.04%	96.61%	\$4.94	\$3.943
Aug-18	2,583,722,000	2,678,990,368	96.44%	\$12,763,586.68	\$10,583,259.02	914,357	0.03%	96.48%	\$4.94	\$3.943
Sep-18	2,263,628,000	2,346,754,816	96.46%	\$11,182,322.32	\$9,253,254.24	7,290,382	0.31%	96.77%	\$4.94	\$3.943
Oct-18	2,017,047,000	2,093,603,023	96.34%	\$9,964,212.18	\$8,255,076.72	1,036,179	0.05%	96.39%	\$4.94	\$3.943
Nov-18	1,855,424,000	1,909,236,300	97.18%	\$9,165,794.56	\$7,528,118.73	6,336,710	0.33%	97.51%	\$4.94	\$3.943
Dec-18	1,925,817,000	1,998,319,584	96.37%	\$9,513,535.98	\$7,879,374.12	999,888	0.05%	96.42%	\$4.94	\$3.943
Jan-19	1,948,234,000	2,017,316,439	96.58%	\$9,624,275.96	\$7,954,278.72	1,344,792	0.07%	96.64%	\$4.94	\$3.943
Feb-19	1,831,029,000	1,891,234,162	96.82%	\$9,045,283.26	\$7,457,136.30	392,723	0.02%	96.84%	\$4.94	\$3.943
Mar-19	1,933,958,000	1,993,121,626	97.03%	\$9,553,752.52	\$7,858,878.57	467,761	0.02%	97.06%	\$4.94	\$3.943
TOTALS (1)	776,037,883,798	798,328,221,581	97.21%	\$1,602,085,083.00	\$1,439,661,517.64	796,684,347	0.10%	97.31%	\$2.06	\$1.803

(1) - SINCE MAY 1, 1992

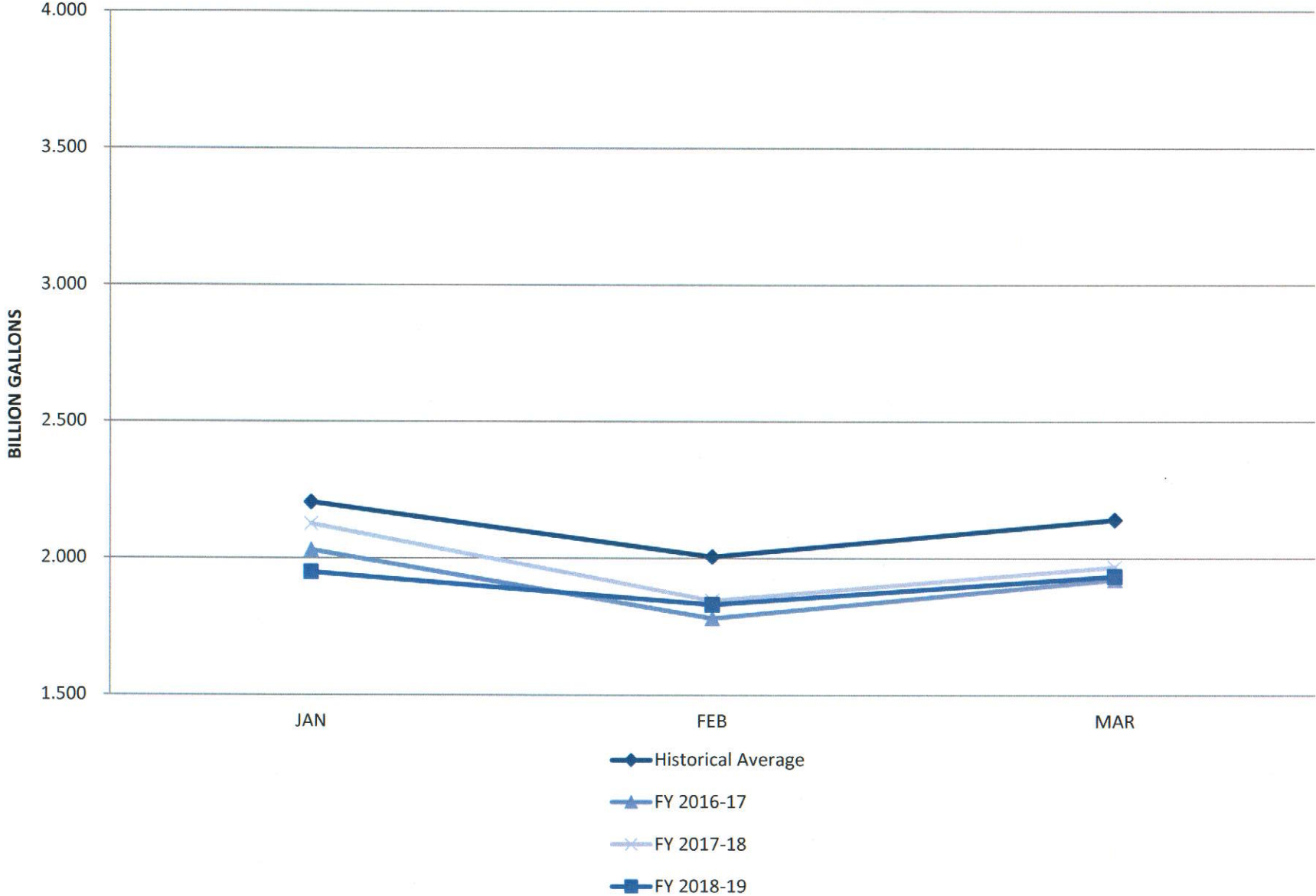
(2) - REPRESENTS DU PAGE PUMP STATION, METER TESTING AND CONSTRUCTION PROJECT USAGE

(3) - DOES NOT INCLUDE FIXED COST PAYMENTS

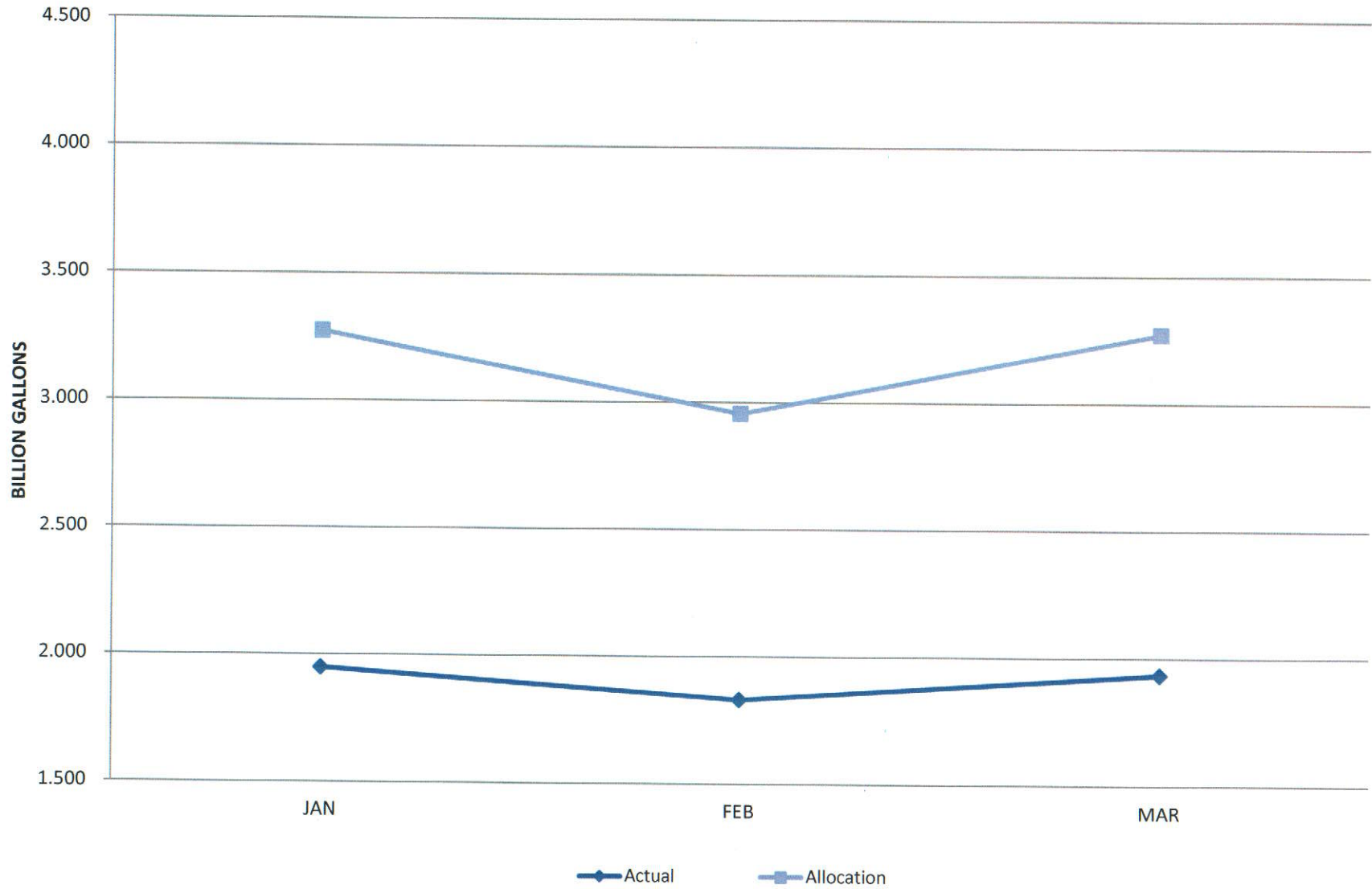
YTD

Mar-18	24,584,928,000	25,434,031,764	96.66%	119,974,449	98,605,894				\$4.88	\$3.877
Mar-19	23,652,135,000	24,493,029,447	96.57%	116,841,547	96,434,327				\$4.94	\$3.937
	(932,793,000)	(941,002,317)		(\$3,132,901)	(\$2,171,566)					
	-3.8%	-3.7%		-2.6%	-2.2%					
Month										
Mar-18	1,968,078,000	2,042,128,006	96.37%	9,604,221	7,929,575				\$4.88	\$3.883
Mar-19	1,933,958,000	1,993,121,626	97.03%	9,553,753	7,858,879				\$4.94	\$3.943
	(34,120,000)	(49,004,380)		(\$50,468)	(\$70,697)					
	-1.7%	-2.4%		-0.5%	-0.9%					
Mar>Feb	102,929,000	101,887,464		508,460	401,742					

DU PAGE WATER COMMISSION SALES FY 2018-19, 2017-18 & 2016-17 VS. HISTORICAL AVERAGE




DU PAGE WATER COMMISSION SALES FY 2018-19 VS. ALLOCATION



DATE: April 9, 2019

REQUEST FOR BOARD ACTION

AGENDA SECTION	Omnibus Vote Requiring Super-Majority or Special Majority Vote	ORIGINATING DEPARTMENT	Operations
ITEM	A Resolution Approving and Ratifying Certain Contract TW-3/18 Change Orders at the April 18, 2019, DuPage Water Commission Meeting Resolution No. R-14-19	APPROVAL	

Account Number:

Resolution No. R-14-19 would approve the following Change Orders:

Change Order No. 3 to Contract TW-3/18 (West Transmission Main):

- 1) Provide a Contract Time extension of ninety (90) calendar days, changing the Final Completion Date from April 1, 2019 to June 30, 2019,
- 2) Reduction of the amounts held in retainage from 10% to 5% of the total Contract Price.

With respect to Item 1 above, the Contractor was delayed in completing the work for the TW-3/17 West Transmission Main due to Change Order No. 1's addition of over 8,000 lineal feet of a combination of 16-inch and 24-inch diameter water main for the Village of Bartlett. Therefore, a time extension from April 1st, 2019 to June 30th, 2019 is warranted to allow the Contractor sufficient time to finish the Work and put the transmission main into service. **This is a no cost action.**

With respect to Item 2 above, due to the Contractor not being able to close out the contract due to unavoidable and change order delays, the Contractor is requesting the release of monies earned in order to pay subcontractors and suppliers not involved with the associated delays and close out their respective contracts. Staff has no objections to this request.

MOTION: To approve Resolution No. R-14-19

DuPAGE WATER COMMISSION

RESOLUTION NO. R-14-19

A RESOLUTION APPROVING AND RATIFYING
CERTAIN CONTRACT CHANGE ORDERS AT THE
APRIL 18, 2019, DuPAGE WATER COMMISSION MEETING

BE IT RESOLVED by the Board of Commissioners of the DuPage Water Commission
as follows:

SECTION ONE: The Change Orders set forth on Exhibit 1, attached hereto and by
this reference incorporated herein and made a part hereof, shall be and hereby are approved
and, if already issued, ratified because the Board of Commissioners of the DuPage Water
Commission has determined, based upon the representations of staff and the Contractors,
that the circumstances said to necessitate the changes were not reasonably foreseeable at
the time the contracts were signed, the Change Orders are germane to the original contracts
as signed and/or the Change Orders are in the best interest of the DuPage Water
Commission and authorized by law.

SECTION TWO: This Resolution shall constitute the written determination required
by Section 33E-9 of Article 33E of the Criminal Code of 1961 and shall be in full force and
effect from and after its adoption.

AYES:

NAYS:

ABSENT:

ADOPTED this _____ day of _____, 2019.

Chairman

ATTEST:

Clerk

Board\Resolutions\R-14-19.doc

Exhibit 1

Resolution No. R-14-19

1. Change Order No. 3 to Contract TW-3/19 (West Transmission Main), a time extension request and a 5% reduction of retainage.

DuPAGE WATER COMMISSION
CHANGE ORDER

CHANGE ORDER NO. 3

Dated: April 9, 2019

PROJECT NAME: Contract TW-3/17 West Transmission Main

LOCATION: Bartlett, Hanover Park, and Roselle, DuPage and Cook Counties Illinois

CONTRACTOR: Benchmark Construction

I. DESCRIPTION OF CHANGES INVOLVED AND COST:

A. Time Extension for Change Order No. 1 Bartlett Water Main Extension

The Contractor was delayed in completing the work for the TW-3/17 West Transmission Main due to Change Order No. 1's addition of over 8,000 lineal feet of a combination of 16-inch and 24-inch diameter water main for the Village of Bartlett. Therefore, a time extension from April 1st, 2019 to June 30th, 2019 is warranted to allow the Contractor sufficient time to finish the Work and put the transmission main into service. **This is a no cost action.**

B. Reduce the amounts held in retainage from 10% to 5% of the total Contract Price.

Due to the Contractor not being able to close out the contract due to unavoidable and change order delays, the Contractor is requesting the release of monies earned in order to pay certain Subcontractors and Suppliers not involved with the associated delays and give the Contractor flexibility to close out their respective Subcontracts.

II. CHANGE ORDER CONDITIONS:

- A. Substantial and Final Completion:
- 1) Original Substantial Completion date was March 15, 2019. The date for Substantial Completion of the Work established in the Agreement or as modified by subsequent Change Orders is hereby changed by zero (0) days, maintaining the Substantial Completion date of the Work March 15, 2019.
 - 2) Original Final Completion date was April 1, 2019. The date for Final Completion of the Work established in the Agreement or as modified by subsequent Change Orders is hereby changed by ninety (90) days, changing the final completion date of the Work from April 1, 2019 to June 30, 2019.
- B. Any additional Work to be performed under this Change Order shall be carried out in compliance with the Specifications included in the preceding Description of Changes Involved, the attached Drawings and under the provisions of the Agreement and Contract Documents, including compliance with the applicable Specifications for the same type of Work.
- C. This Change Order, unless otherwise provided herein, does not relieve Contractor from strict compliance with the provisions of the Agreement and Contract Documents.
- D. Contractor shall place under coverage of its Highway Bonds, Performance Bond, Payment Bond and insurances, all Work covered by this Change Order.
- E. The costs established under this Change Order are acknowledged as including any and all costs associated with the Work described herein and including any and all costs associated with any and all Work performed or to be performed by the Contractor that may be affected in any manner by the Work described herein.

III. ADJUSTMENTS IN AMOUNT OF CONTRACT PRICE:

1.	Original Contract Price	\$ 13,242,601.00
2.	Net Addition due to all Previous Change Orders	\$ 3,748,539.86
3.	Contract Price not including this Change Order	\$ 16,991,140.86
4.	Net Addition resulting from this Change Order	\$ 0.00
5.	Current Contract Price including this Change Order	\$ 16,991,140.86

Accepted by Contractor:

By: _____

Title: _____

Date: _____

Recommended for Acceptance by
Engineer:

By: _____

Title: _____

Date: _____

DuPage Water Commission

By: _____

Title: General Manager

Date: _____

REQUEST FOR BOARD ACTION

AGENDA SECTION	Engineering & Construction Committee	ORIGINATING DEPARTMENT	Pipeline
ITEM	<p>A Resolution Approving a 2 year contract time extension of Contract QR-11/17 with John Neri Construction Co. Inc. and Rossi Contractors, Inc. at the April 18 2019, DuPage Water Commission Meeting</p> <p>Resolution No. R-15-19</p>	APPROVAL	
<p>Account #01-60-663100</p> <p>The Commission entered into certain agreements beginning July 1, 2017 with John Neri Construction Co. Inc. and Rossi Contractors, Inc. for quick response construction work as needed through the issuance of Work Authorization Orders (Contract QR-11/17). These agreements are scheduled to end on June 30, 2019.</p> <p>Staff has been pleased with the work of both its QR-11/17 contractors and believes that it would be in the Commission's best interest to exercise its option under the contract with respect to extending the contract term limits for a period of a 2 years commencing on July 1, 2019, and ending on June 30, 2021 to both John Neri Construction Co. Inc. and Rossi Contractors, Inc.</p> <p>There is no cost associated with this request and all other terms and conditions of Contract QR-11/17 shall remain unchanged during this time.</p> <p>Both contractors have agreed to this proposal and their acceptance can be found in the signed agreements under Exhibit 1 to this Resolution.</p>			
MOTION: To adopt Resolution No. R-15-19.			

DUPAGE WATER COMMISSION

RESOLUTION NO. R-15-19

A RESOLUTION EXTENDING THE TERM OF A QUICK RESPONSE
CONTRACT (QR-11/17)

WHEREAS, pursuant to Resolution No. R-15-17, the DuPage Water Commission (the "Commission") awarded Quick Response Contract QR-11/17 (the "Contract") to John Neri Construction Co. Inc. ("Neri") and Rossi Contractors, Inc. ("Rossi"), the Commission having reserved the right to award a contract to one or more bidders; and

WHEREAS, the initial term of the Contract expires on June 30, 2019; and

WHEREAS, the Commission has determined that it is in the best interests of the Commission to extend the Contract with Neri and with Rossi through June 30, 2021.

NOW, THEREFORE, BE IT RESOLVED by the Board of Commissioners of the DuPage Water Commission as follows:

SECTION ONE: The foregoing recitals are hereby incorporated herein as findings of the Board of Commissioners of the DuPage Water Commission.

SECTION TWO: The extension of the Contract through June 30, 2021 shall be and hereby is approved, such extension to be substantially in the form attached hereto and incorporated herein as Exhibit A, and the General Manager shall be and hereby is authorized to execute said extension.

SECTION THREE: This Resolution shall be in full force and effect from and after its adoption.

Resolution No. R-15-19

AYES:

NAYS:

ABSENT:

ADOPTED this _____ day of _____, 2019.

Chairman

ATTEST:

Clerk

Board/Resolutions/2019/R-15-19.docx



DuPage Water Commission
600 E. Butterfield Road, Elmhurst, IL 60126-4642
Voice: (630)834-0100 Fax: (630)834-0120

March 18, 2019

Mr. Robert Rossi
Rossi Contractors Inc.
201 W. Lake Street
Northlake, IL 60164

Subject: Contract QR-11/17

Dear Mr. Rossi,

The DuPage Water Commission "Commission" entered into an agreement with Rossi Contractors Inc. on July 1, 2017 for quick response construction work related to the Commission's Waterworks System as needed through the issuance of Work Authorization Orders through June 30, 2019. (Contract QR-11/17)

The Commission has been satisfied with the work of Rossi Contractors Inc. and therefore wishes to extend the contract term limits for a period of 2 years commencing on July 1, 2019, and ending on June 30, 2021. It is understood that all other terms and conditions of Contract QR-11/17 shall remain unchanged during this time.

Should Rossi Contractors Inc. agree to this contract time extension as presented here, please sign, date and return the attached document to the Commission.

Sincerely,

A handwritten signature in black ink, appearing to read "Ed Kazmierczak", written over a horizontal line.

Ed Kazmierczak

cc: File



DuPage Water Commission
600 E. Butterfield Road, Elmhurst, IL 60126-4642
Voice: (630)834-0100 Fax: (630)834-0120

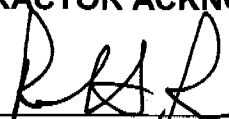
The DuPage Water Commission and Rossi Contractors Inc. do hereby agree to extend the Contract term limit of Contract QR-11/17 for a period of 2 years commencing on July 1, 2019 and ending on June 30, 2021.

DUPAGE WATER COMMISSION

By: _____
Signature of Authorized
Representative

DATE: _____

CONTRACTOR ACKNOWLEDGED:

By: 
Signature of Authorized
Representative

DATE: 3-21-19



DuPage Water Commission
600 E. Butterfield Road, Elmhurst, IL 60126-4642
Voice: (630)834-0100 Fax: (630)834-0120

March 18, 2019

Mr. Nicholas Neri
John Neri Construction Co. Inc.
770 Factory Road
Addison, IL 60101

Subject: Contract QR-11/17

Dear Mr. Neri,

The DuPage Water Commission "Commission" entered into an agreement with John Neri Construction Co. Inc. on July 1, 2017 for quick response construction work related to the Commission's Waterworks System as needed through the issuance of Work Authorization Orders through June 30, 2019. (Contract QR-11/17)

The Commission has been satisfied with the work of John Neri Construction Co. Inc. and therefore wishes to extend the contract term limits for a period of 2 years commencing on July 1, 2019, and ending on June 30, 2021. It is understood that all other terms and conditions of Contract QR-11/17 shall remain unchanged during this time.

Should John Neri Construction Co. Inc. agree to this contract time extension as presented here, please sign, date and return the attached document to the Commission.

Sincerely,

Ed Kazmierczak

cc: File



DuPage Water Commission
600 E. Butterfield Road, Elmhurst, IL 60126-4642
Voice: (630)834-0100 Fax: (630)834-0120

The DuPage Water Commission and John Neri Construction Co. Inc. do hereby agree to extend the Contract term limit of Contract QR-11/17 for a period of 2 years commencing on July 1, 2019 and ending on June 30, 2021.

DUPAGE WATER COMMISSION

By: _____
Signature of Authorized
Representative

DATE: _____



CONTRACTOR ACKNOWLEDGED:

By: Nicholas Neri
Signature of Authorized
Representative

DATE: 3/21/2019

Date: April 9, 2019

REQUEST FOR BOARD ACTION

AGENDA SECTION	Omnibus Vote Requiring Super-Majority or Special Majority Vote	ORIGINATING DEPARTMENT	General Manager's Office
ITEM	A Resolution Approving and Ratifying Certain Task Orders under a Master Contract with AECOM Technical Services, Inc. at the April 18, 2019 DuPage Water Commission Meeting Resolution No. R-16-19	APPROVAL  	
Account No(s): Task Order No. 11 -- 01-60-771200 (Not to Exceed \$199,202.00)			
<p>The Commission entered into a Master Contract with AECOM Technical Services, Inc., dated as of May 16, 2013, for professional engineering services in connection with such discrete projects as are delineated and described in Task Orders to be approved by the Commission.</p> <p>On October 2018, the America's Water Infrastructure Act was signed in to law. The law requires drinking water systems serving more than 3,300 people to update risk assessments(VA) and emergency response plans(ERP). The deadline for the Commission to complete the risk assessment is March 31, 2020 and emergency response plans by September 30, 2020.</p> <p>The original VA and ERP for the Commission were completed in 2003 by CTE(currently AECOM) , also in 2014 a Condition Assessment of Commission Facilities and Underground Assets was completed by AECOM. The Commission was very satisfied with results of these assessments.</p> <p>Therefore, Resolution No. R-16-19 would approve the following Task Orders to the Master Contract:</p> <p>Task Order No. 11: Vulnerability Assessment and Emergency Response Plan Update:</p> <p>DWC is requesting AECOM to perform an update to the vulnerability assessment (VA) and emergency response plans(ERP). AECOM should complete a review and update to the VA to incorporate new facilities and updates to the system since 2003. It is understood that DWC is also requesting AECOM use the new methodologies outlined in the ANSI/AWWA J100-10: Risk Analysis and Management for Critical Assets Protection (RAMCAP) for Risk and Resilience Management of Water and Wastewater Systems (J100) be utilized for the updated VA document.</p>			

Date: April 9, 2019

DUPAGE WATER COMMISSION

RESOLUTION NO. R-16-19

A RESOLUTION APPROVING AND RATIFYING
CERTAIN TASK ORDERS UNDER A MASTER CONTRACT
WITH AECOM TECHNICAL SERVICES, INC. AT THE April 18, 2019,
DUPAGE WATER COMMISSION MEETING

WHEREAS, the Commission was formed and exists pursuant to the Water Commission Act of 1985, 70 ILCS 3720/0.01 et seq., and Division 135 of Article 11 of the Illinois Municipal Code, 65 ILCS 5/11-135-1 et seq., for the purpose of securing an adequate source and supply of water for its customers; and

WHEREAS, the Commission entered into a contract with AECOM Technical Services, Inc. (the "Consultant"), dated as of May 16, 2013, to provide, from time to time, professional engineering services in connection with the design and construction of extensions and improvements to the Waterworks System and other projects of the Commission (the "Master Contract"); and

WHEREAS, the Master Contract sets forth the terms and conditions pursuant to which the Commission will obtain from time to time, and the Consultant will provide from time to time, professional engineering services for such discrete projects as are delineated and described in Task Orders to be approved by the Commission and the Consultant; and

WHEREAS, the Consultant has approved the Task Orders attached hereto and by this reference incorporated herein and made a part hereof as Exhibit 1 (the "Task Orders");

NOW, THEREFORE, BE IT RESOLVED by the Board of Commissioners of the DuPage Water Commission as follows:

SECTION ONE: The foregoing recitals are incorporated herein and made a part hereof as findings of the Board of Commissioners of the DuPage Water Commission.

Resolution No. R-16-19

SECTION TWO: The Task Orders attached hereto as Exhibit 1 shall be and hereby are approved and, if already issued, ratified because the Board of Commissioners of the DuPage Water Commission has determined, based upon the representations of staff and Consultant, that the circumstances said to necessitate the Task Orders were not reasonably foreseeable at the time the Master Contract was signed, the Task Orders are germane to the Master Contract as signed, and/or the Task Orders are in the best interest of the DuPage Water Commission and authorized by law.

SECTION THREE: This Resolution shall constitute the written determination required by Section 33E-9 of Article 33E of the Criminal Code of 1961 and shall be in full force and effect from and after its adoption.

AYES:

NAYS:

ABSENT:

ADOPTED THIS _____ DAY OF _____, 2019.

Chairman

ATTEST:

Clerk

EXHIBIT 1

TASK ORDER NO. 11

In accordance with Section 1.1 of the Master Contract for Professional Engineering Services Owner and Consultant agree as follows:

1. **Project:**

Vulnerability Assessment and Emergency Response Plan Update

2. **Services of Consultant:**

AECOM's risk assessment and preparedness plan services are solidly founded on security and preparedness best practices, industry standards, and state and federal laws. We embrace the all-hazards approach to risk assessment that acknowledges the importance of considering not only malevolent threats, but also hazards resulting from natural disasters, interdependencies, and proximity. AECOM's approach to executing this project will provide DWC with a Risk Assessment (RA) and ERP that are compliant with the America's Water Infrastructure Act (**AWIA**) signed by the President on October 23, 2018. It should be noted that the USEPA is planning to publish guidelines to assist water systems to be in conformance with the AWIA in August 2019 to assist water systems to be in conformance with the AWIA, and it is the intent to include any required updates/revisions into the final RA deliverable for this project.

The following describes our technical approach which is comprised of the following milestone tasks as outlined in the scope of work (SOW):

- Task 1 - Project Initiation and Kickoff Meeting
- Task 2 - Risk Assessment
- Task 3 - Emergency Management Plan

Task 1 - Project Kick-Off Meeting: Upon the notice to proceed, our AECOM team will begin Project Initiation activities, which will include a Project Kickoff Meeting as well as requesting and reviewing existing documents. The purpose of the Project Kickoff Meeting will be to re-affirm project objectives and to discuss the schedule, procedures for coordinating site visits, and preferred communication methods. Careful planning and preparation is critical to the success of any project, and the activities in this task are structured such that DWC and AECOM will be well-coordinated from the beginning.

Task 2 - Risk Assessment: The Risk Assessment (RA) task will be conducted using the AWWA J100-10 (R13) Risk and Resilience Management of Water and Wastewater Systems standard. The J100 methodology is comprised of seven (7) steps designed to evaluate the risk and resilience of a water utility to malevolent threats and hazards caused by natural disasters, interdependencies, and proximity. The process also provides a quantitative method for evaluating alternative countermeasures and mitigation measures to ensure that limited resources are allocated to corrective measures that result in the highest Net Benefits and highest Benefit/ Cost Ratios.

After reviewing existing documents as described in Task 1, the AECOM team will conduct the first site visit. The purpose of this site visit will be to:

- Conduct a Site Visit Overview meeting with all stakeholders
- Gather and review background documents not previously provided
- Identify threat scenarios
- Identify critical assets

Estimate consequences for disruption of service scenarios
Evaluate existing countermeasures

DWC operates a 185 MGD pumping station and 30 MG reservoir at its headquarters in Elmhurst. From there the water flows to the member communities through a distribution system that includes 5 standpipes at 4 locations, 82 metering stations, and 202 miles of pipeline and over 650 valves. To allow for a manageable and efficient assessment, DWC facilities will be grouped into categories for evaluation. It is assumed that the facilities will be grouped into a maximum of eight (8) categories based on similar functionality and levels of security. AECOM will visit up to twelve (12) facilities with at least one site visited for each facility category, and it is anticipated that appropriate DWC staff will accompany AECOM staff during these site visits. We will analyze/organize findings with photos and standardized site characterization forms.

In the step to identify threat scenarios, we will select the credible threats and hazards that would likely result in the most significant consequences to each critical asset. To accomplish this, we propose to lead a Threat Meeting during the first site visit in order to gather information necessary to determine the credible threats and hazards to the DWC (can be combined with Site Visit Overview Meeting discussed above). We will work with Commission staff to identify who should be represented at the threat meeting, including consideration for local law enforcement, and local emergency management agencies.

As required by J100 and the AWIA, the RA will use an all-hazards approach that evaluates, at a minimum, the following threats and hazards:

- Malevolent threats
 - Process sabotage
 - Diversion or theft
 - Cyber sabotage
 - Maritime, air, land (boat, plane, or vehicle as a weapon)
 - Assault Teams
 - Contamination of product
- Natural hazards
- Dependency hazards (e.g., utilities, suppliers, employees)
- Proximity hazards (e.g., nearby railroads, hazardous chemical storage facilities)

After determining which threats and hazards are deemed credible, our AECOM team will work with Commission staff to gather utility-specific information necessary to identify critical assets. Critical assets are facilities and assets that, if compromised, could cause a prolonged, widespread service disruption, serious injuries, fatalities, unacceptable economic impacts to DWC, loss of customer confidence, and/or the inability of DWC to achieve its mission. During the site visit, AECOM will visit critical assets and interview key staff about the system assets.

After the initial site visit, our AECOM team will enter the critical assets and credible threats into a spreadsheet and prioritize the threat-asset (T-A) pairs, in accordance with J100, based on worst reasonable potential threats and consequences. At this stage, the number of T-A pairs under consideration could be 200 or more.

Following our preliminary evaluation of the T-A pairs, AECOM will engage with DWC stakeholders in a T-A pair Workshop at the beginning of our second site visit to review the preliminary prioritization. In addition, we will work with DWC to identify the threshold at which to bottom-cut low priority T-A pairs in accordance with the J100 methodology; this will likely result in approximately 50 T-A pairs. It is important to focus the RA on a subset of the highest consequence T-A pairs because it is unlikely that limited financial resources will be devoted to mitigating low-consequence T-A pairs, and if the number of T-A pairs is not reduced to a manageable level, it becomes cumbersome for the stakeholders and the assessment team to maintain a big-picture perspective of the risk assessment.

After the T-A pairs have been finalized with the DWC stakeholders, we will conduct the consequence, vulnerability, and threat likelihood (CVT) analysis. Much of the information required for these calculations will be gathered during the first site visit; however, additional data gathering and interviews may be required during the second site visit. A description of the CVT inputs is provided below.

The goal of the consequence analysis is to identify the worst reasonable consequences that could be caused by a particular T-A pair. Components of consequence may include:

- Number of fatalities and serious injuries
- Financial loss to DWC
 - Cost to repair or replace damaged assets
 - Cost of environmental remediation
 - Lost revenue associated with service outage or service denial
- Regional economic impact

The goal of the vulnerability analysis step is to analyze the effectiveness of existing countermeasures and mitigation measures to prevent predicted consequences if a threat or hazard occurs. For malevolent threats, vulnerability is the probability that the perpetrator is successful. For natural hazards, dependency hazards, and proximity hazards, vulnerability is the likelihood that, given the hazard occurs, the estimated consequences will result.

The threat likelihood is an estimate of the likelihood that a particular threat or hazard will occur. This is calculated using the Best Estimate Method, which is based on the historical frequency of similar events such as hurricanes or sabotage, or the Proxy Measure Method, which is a method to estimate the likelihood of a terrorist-related threat. The CVT values for each selected T-A pair will be entered and the baseline risk will be calculated using the equation shown below.

$$R=C*V*T$$

Where:

- R = Risk
- C = Consequence
- V = Vulnerability
- T = Threat Likelihood

After calculating the Baseline Risk for each T-A pair, we will evaluate risk mitigation measures. During this step, we will evaluate alternative countermeasures and risk reduction mitigation measures to determine the Net Benefit and Benefit/Cost Ratio of various measures.

After completing preliminary risk analyses and evaluating potential management alternatives, we will conduct a Risk Workshop with stakeholders to discuss and achieve consensus on risk management recommendations. It is likely that it will be too expensive to implement all recommendations, so it is important that DWC be involved in making decisions to best strike a balance between the financial resources DWC is able to commit to risk mitigation and the necessity to accept a certain degree of risk. This is a very critical point in the J100 process. Consensus recommendations derived in this task will form the basis of the report.

The project team will compile the information performed in this task into a Risk Assessment and Recommendations Report. The report will include the following:

- A summary of the methodology
- A description of the water system assets and threats
- The results of the CVT analysis
- A summary of the baseline risk analysis results
- Industry best practices and benchmarking of DWC to other similar sized utilities
- An evaluation of DWC compared to the ANSI/AWWA G430 and G440 standards
- Risk reduction recommendations and implementation strategy to include cost effective and/or maximum benefit grouping and priorities

The report will be prepared in draft and final versions with the opportunity for intermediate DWC review and comment. All comments will be addressed in the final version.

Task 3 - Emergency Response Plan: The ERP will be developed using industry best practices and guidance, including ANSI/AWWA G440 Emergency Preparedness Practices, AWWA M19, and WRF/EPA/AWWA Business Continuity Planning for Water Utilities. This task will be performed concurrently with the Risk Assessment task as shown in the schedule.

An ERP Outline Review Meeting for this task will be combined with either the Project Kickoff Meeting or Site Visit Overview Meeting to minimize the number of meetings that DWC staff must attend. Following this meeting, the AECOM team will gather and review background documents not previously provided by DWC.

The AECOM team will then develop an annotated outline of the proposed ERP. This outline will incorporate the threats and hazards identified in the Risk Assessment, industry guidance, and lessons learned from our extensive experience with ERP development. The annotation will denote key points and components of the outline in need of discussion by the joint DWC/AECOM project team. An Outline Review Meeting will be held to receive comments and input on the outline from the owner team.

Concurrent with the delivery of the outline, our team will provide DWC with an initial list of questions and technical information needed for the development of the ERP. While our team members are experts in the development of ERPs, this ERP must be customized to the specific conditions and needs of DWC to maximize its effectiveness for DWC. There will likely be additional follow-up requests for information as the ERP is developed.

Following development and concurrence on the outline, the AECOM team will develop the Draft ERP. Current recommended best practices that we anticipate incorporating into the ERP include:

- A focus on resilience and all-hazards preparedness
- Pre-incident preparedness for response and recovery from threats and hazards
- Inclusion of employee safety provisions
- Inclusion of threats and hazards as identified during the Risk Assessment, including emerging threats, such as cyber-attacks and active shooters
- Incorporation of the National Incident Management System (NIMS), particularly the Incident Command System (ICS)
- Appropriate utility staff inclusion, engagement, and training, including other local agencies as needed
- Incorporation of mutual aid, including consideration of Illinois Water/Wastewater Agency Response Network (ILWARN)
- Adequate provisions for effective internal and external communications, including a media/ press release template

Following submittal of the Draft ERP, Commission staff will be provided the opportunity for review and comment. A review meeting will be held to receive comments and input from the DWC team. All comments will be addressed in the final version.

3. **Approvals and Authorizations:** Consultant shall obtain the following approvals and authorizations:

None.
4. **Commencement Date:**

As soon as notice to proceed is issued
5. **Completion Date:**

December 31,2019
6. **Submittal Schedule:**

None.

7. **Key Project Personnel:**

Name	Project Title	Years of Experience	Years with AECOM	Education
Michael Winegard	Project Director	43	43	MBA;BS/CE
Chad Laucamp	Project Manager	21	19	MS/CE;BS/CE
Dana Al-Qadi	Project Engineer	5	5	MS/EE;BS/CE
Drew Zeipen	Engineer	5	5	BS/CE
WeixiaWu	Engineer	4	4	MS/EE;BS/EE
Andrew Dunn	Engineer	2	2	BS/CE
Robert Butterworth	QA/QC	46	15	BS/ME

8. **Contract Price:**

The following table breaks down the tasks required to complete this project along with the fee required to complete each task. A more detailed Cost Summary Table is provided as Attachment A. AECOM is committed to providing our services in a cost effective manner and can adapt our services to meet your budget requirements.

Due to the uncertainty of the guidelines that the USEPA is planning to publish in August 2019 for conformance with the AWIA, we are not able to provide a definitive scope and fee for this work at this time. Once these guidelines are published, AECOM will review to determine the level of effort that is required to incorporate into the RA document, and discuss any potential need for additional fee with DWC staff prior to proceeding with this work.

Task	Description	Fee
1	Project Initiation and Kick-off Meeting	\$6,224.00
2	Risk Assessment	\$134,808.00
3	Emergency Response Plan	\$57,670.00
	ODC costs (Printing):	\$500.00
	Total Not-to-Exceed Cost	\$199,202.00

9. **Payments:**

Direct Labor Costs shall mean the billing rate of all Consultants personnel including all professionals whether owners or employees, engaged directly on the Project.

Reimbursable Expenses shall mean the actual expenses incurred by Consultant directly or indirectly in connection with the Project, including expenses for

transportation, telephone, postage, computer time and other highly specialized equipment, reproduction and similar Project related items.

10. **Modifications to Contract:**

None

11. **Attachments:**

None

Approval and Acceptance: Acceptance and approval of this Task Order, including the attachments listed above, shall incorporate this Task Order as part of the Contract.

The Effective Date of this Task Order is _____, 2019.

DUPAGE WATER COMMISSION

By: _____
John Spatz
General Manager

DESIGNATED REPRESENTATIVE FOR TASK ORDER:

Name: Terry McGhee

Title: Manager of Water Operations

Address: 600 East Butterfield Road, Elmhurst, Illinois 60126-4642

E-mail Address: mcghee@dpwc.org

Phone: (630) 834-0100

Fax: (630) 834-0120

Consultant

By: _____
Name: Michael H. Winegard
Title: Vice President

DESIGNATED REPRESENTATIVE FOR TASK ORDER:

Name: Michael H. Winegard

Title: Vice President

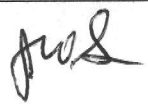


Address: 303 East Wacker Dr., Suite 1400, Chicago IL 60601

E-mail Address: mike.winegard@aecom.com

Phone: (312) 373-6631

DATE: April 10, 2019

REQUEST FOR BOARD ACTION

AGENDA SECTION	Engineering & Construction Committee	ORIGINATING DEPARTMENT	Instrumentation/ Remote Facilities
ITEM	A Resolution Approving and Ratifying Certain Work Authorization Orders Under Quick Response Electrical Contract QRE-8/17 at the April 18, 2019, DuPage Water Commission Meeting Resolution No. R-17-19	APPROVAL	  
Account Numbers: 01-60-663300 (Cost \$3,750.00)			
<p>The Commission entered into certain agreements dated December 29, 2017, with McWilliams Electric Co. Inc. and with Volt Electric, Inc. for quick response electrical work as needed through the issuance of Work Authorization Orders. Resolution No. R-17-19 would approve the following Work Authorization Orders under the Quick Response Electrical Contracts:</p> <p>Work Authorization Order No. 009: This work authorization was issued to McWilliams Electric Co. Inc., and the work completed prior to board approval and was necessary to repair a damaged antenna cable for SCADA communications to Meter Station 22A in Willowbrook. The Commission was notified by Willowbrook that they had dug up our antenna cable during repairs of the drainage system around their standpipe. The Commission's antenna is on the side of their standpipe. Willowbrook has agreed to pay for the repairs.</p> <p>Approval of Resolution R-17-19 would ratify Work Authorization Order Numbers 009 to McWilliams Electric Co. Inc. at an estimated cost of \$3,750.00.</p>			
MOTION: To adopt Resolution No. R-17-19.			

DUPAGE WATER COMMISSION

RESOLUTION NO. R-17-19

A RESOLUTION APPROVING AND RATIFYING
CERTAIN WORK AUTHORIZATION ORDERS
UNDER QUICK RESPONSE ELECTRICAL CONTRACT QRE-8/17
AT THE APRIL 18, 2019, DUPAGE WATER COMMISSION MEETING

WHEREAS, the DuPage Water Commission (the "Commission") entered into certain agreements dated December 29, 2017, with McWilliams Electric Co. Inc. and with Volt Electric, Inc., for quick response electrical work related to the Commission's Waterworks System (said agreements being hereinafter collectively referred to as "Contract QRE-8/17"); and

WHEREAS, Contract QRE-8/17 is designed to allow the Commission to direct one or more or all of the quick response electrical contractors to perform emergency electrical work, including without limitation electrical work that the Commission is unable to perform through its own personnel and with its own equipment, as needed through the issuance of Work Authorization Orders;

NOW, THEREFORE, BE IT RESOLVED by the Board of Commissioners of the DuPage Water Commission as follows:

SECTION ONE: The foregoing recitals are by this reference incorporated herein and made a part hereof as findings of the Board of Commissioners of the DuPage Water Commission.

SECTION TWO: The Work Authorization Orders attached hereto and by this reference incorporated herein and made a part hereof as Exhibit 1 shall be and hereby are approved and, if already issued, ratified because the Board of Commissioners of the

Resolution No. R-17-19

DuPage Water Commission has determined, based upon the representations of staff, that the circumstances said to necessitate the Work Authorization Orders were not reasonably foreseeable at the time the contracts were signed, the Work Authorization Orders are germane to the original contracts as signed, and/or the Work Authorization Orders are in the best interest of the DuPage Water Commission and authorized by law.

SECTION THREE: This Resolution shall constitute the written determination required by Section 33E-9 of the Criminal Code of 1961 and shall be in full force and effect from and after its adoption.

AYES:

NAYS:

ABSENT:

ADOPTED this ____ day of _____, 2019

Chairman

ATTEST:

Clerk

Exhibit 1

WORK AUTHORIZATION ORDER

SHEET 1 OF 2

CONTRACT QRE-8/17: QUICK RESPONSE ELECTRICAL CONTRACT

PROJECT: QRE-8.009

LOCATION:

Meter Station 22A, 75th Street East of Rt. 83 at Public Works, Willowbrook

CONTRACTOR:

McWilliams Electric Co., Inc.

DESCRIPTION OF WORK:

Repair damaged buried antenna cable. Replace cable from break in ground through existing 2" PVC conduit up to antenna on side of tank, about 30' height. Cut back damaged cable to allow a splice connector to be installed. Connect new cable to broken end using appropriate cable connectors. Tape and waterproof spliced connection for direct burial. Provide 7/8" heliax cable splice connectors for LDF5-50A Heliax cable. Commission to provide new LDF5-50A Heliax cable and connector for up at antenna. Commission staff to test cable before spliced connection is taped and waterproofed.

REASON FOR WORK:

Willowbrook Public Works employees dug up and damaged the antenna cable. They have left the damaged area exposed and will restore the area when work is finished.

MINIMUM RESPONSE TIME:

None

COMMISSION-SUPPLIED MATERIALS, EQUIPMENT AND SUPPLIES TO BE INCORPORATED INTO THE WORK:

LDF5-50A Heliax antenna cable (100')

N Female connector for LDF5-50A cable

THE WORK ORDERED PURSUANT TO THIS WORK AUTHORIZATION ORDER

IS IS NOT PRIORITY EMERGENCY WORK

SUBMITTALS REQUESTED:

None

SUPPLEMENTARY NOTIFICATION OF POTENTIALLY HAZARDOUS CONDITIONS:

None

SUPPLEMENTARY CONTRACT SPECIFICATIONS AND DRAWINGS:

None

DUPAGE WATER COMMISSION

By: _____
Signature of Authorized
Representative



DATE: _____

CONTRACTOR RECEIPT ACKNOWLEDGED AND DESIGNATION OF SAFETY REPRESENTATIVE:

By: _____ Safety Rep: _____
Signature of Authorized Name and 24-Hr Phone No.
Representative

DATE: _____

REQUEST FOR BOARD ACTION

AGENDA SECTION	Engineering and Construction Committee	ORIGINATING DEPARTMENT	Operations
ITEM	Authorization for the General Manager to execute a two (2) year Work Wear Supply unit price contract with Villa Park Electrical Supply Co., Inc. for employee uniforms at the DuPage Water Commission for the estimated two-year amount of \$24,755.00	APPROVAL  	

Account Number: 01-60-662600

This request would authorize the General Manager to execute a two (2) year Work Wear Supply unit price contract with Villa Park Electrical Supply Co., Inc. for non-Arc-Rated and Arc-Rated employee uniforms at the DuPage Water Commission for the estimated two-year amount of \$24,755.00.

This is an approved budgeted item.

The Commission solicited sealed proposals for a Work Wear Supply at the DuPage Water Commission by direct invitation, as well as by notice published in the *Daily Herald* on March 5, 2019 and by posting the notice of the solicitation on the Commission's website starting March 5, 2019 and ending on March 26, 2019. Sealed proposals were received until 1:00 p.m., local time, March 26, 2019, at which time all proposals were publicly opened and read aloud.

Of the six (6) companies that held copies of the bid packet, two (2) proposals were received. Of the two (2) proposals received (see tabulation below), the proposal of Villa Park Electrical Supply Co., Inc. was found to be the lowest responsible bidder and most favorable to the interests of the Commission.

Company	Bid Result
Red Wing Shoes	\$25,539.10
Villa Park Electrical Supply Co., Inc.	\$24,755.00

MOTION: To authorize the General Manager to execute a two (2) year Work Wear Supply unit price contract with Villa Park Electrical Supply Co. for employee uniforms at the DuPage Water Commission for the estimated two-year amount of \$24,755.00.