



## AGENDA – Engineering and Construction Committee

Thursday, June 15, 2023 6:00 PM

### Committee Members

J. Fennell, Chair  
D. Bouckaert  
D. Novotny  
F. Saverino  
J. Zay

- I. Roll Call
- II. Approval of the May 18, 2023, Engineering & Construction Committee Minutes

**RECOMMENDED MOTION: To approve the Minutes of the May 18, 2023, Engineering & Construction Committee Meeting of the DuPage Water Commission.**

- III. Report of Status of Operations and Construction
- IV. **Resolution No. R-24-23:** A Resolution Approving a First Amendment to Task Order No. 6 under a Master Contract with DeLasCasas CP, LLC (**Not-To-Exceed Cost of \$62,500.00**)
- V. **Resolution No. R-25-23:** A Resolution Approving First Amendments to Task Order Nos. 06 and 07 under a Master Contract with Northern Inspection Services, LLC (**Task Order No. 06 - Estimated Not-To-Exceed \$26,720.00 and Task Order No. 07 - Estimated Not-To-Exceed \$45,800.00**)
- VI. **Resolution R-26-23:** A Resolution Approving and Ratifying Certain Change Orders for a Contract for the Construction of DPPS Emergency Generation System Modifications (Contract PSD-10/22) (**Change Order No. 02 – Increase of Contract Price by \$53,700.11.**)
- VII. **Resolution R-28-23:** A Resolution approving an Engineering Contract for WaterLink Pipeline Extension (**LAN and Associates – Phase I Services – \$4,263,649.00**) **initial authorization not to exceed \$600,000.00**
- VIII. **Resolution R-30-23:** A Resolution to Approve Certain Revised Work Authorization Orders Under Quick Response Contract QR-12/21 (**WAO No. 016R1 – Benchmark Construction – Additional Cost of \$299,803.19**)

- IX. **Resolution R-31-23:** A Resolution to Approve Certain Work Authorization Orders Under Quick Response Contract QR-12/21 **(WAO No. 020 – Rossi Contractors – Estimated Cost of \$105,610.00)**

**RECOMMENDED MOTION:** To recommend approval of Items 2 through 6 of the Engineering and Construction Committee portion of the Commission Agenda.

- X. Other
- a. Status of Lexington Pump Station Condition Assessment

- XI. Adjournment

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**Minutes of a Meeting  
of the**

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**ENGINEERING & CONSTRUCTION COMMITTEE**

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DuPage Water Commission  
600 E. Butterfield Road, Elmhurst, Illinois

May 18, 2023

Chairman Fennell called the meeting to order at 6:00 P.M.

Committee members in attendance: D. Bouckaert, J. Fennell, D. Novotny, F. Saverino, and J. Zay

Committee members absent: None

Also in attendance: C. Bostick, D. Cuvalo, J. Haney, D. Panaszek and M. Weed

Commissioner Saverino moved to approve the Minutes of the April 20, 2023, Engineering & Construction Committee Meeting of the DuPage Water Commission. Motion seconded by Commissioner Novotny and unanimously approved by a Voice Vote.

Manager of Water Operations Bostick provided a synopsis of the ongoing maintenance and repair activities as listed in the Report of Status of Construction/Operations as well as the status of Capital Improvement projects.

Manager of Water Operations Bostick reported that HLP #9 and Motor #9 were removed and sent to Midwest Service Center for cleaning and performing electromechanical checks and provision of a status report including documentation of necessary repairs. The cleaning and repair services are in process, delivery of the motor occurred on April 6th, and reinstallation and assembly of the pump and motor assembly is tentatively scheduled for June.

Manager of Water Operations Bostick reported that the start-up of newly installed water quality monitoring equipment at various locations throughout the distribution system is ongoing; currently, 3 units are active and monitoring and, 6 units are scheduled for start-up on May 16<sup>th</sup>, and an additional 6 units are on order.

Manager of Water Operations Bostick reported that AECOM Technical Services and staff have nearly completed a comprehensive Condition Assessment of the Lexington Pump Station's critical facilities and the draft final report is due by late May and tentatively, a report to the Committee will be delivered at the June meeting.

Regarding R-20-23, Manager of Water Operations Bostick advised the Committee this resolution appears on the agenda seeking partial approval of Task Order No. 01 with Donohue and Associates to begin design services related to necessary improvements to ROV10A, while delaying requests for approval for any distribution system improvements associated with resiliency and redundancy on the Northwest Transmission Main in the vicinity of Meter Station 19B until such time as a resiliency and redundancy policy is in place.

Regarding the DuPage Pumping Station Drainage Improvement project, Manager of Water Operations Bostick advised the Committee the work is completed with the exception of final restoration; and due to the severe corrosion conditions found on the 72" discharge piping during the excavation, the

remediation of the corrosion will result in significantly higher costs above the previously authorized cost estimate and will require Board ratification at the June meeting.

Regarding R-19-23, Manager of Water Operations Bostick advised the Committee this action appears on the agenda seeking authorization for the General Manager to issue a Purchase Order to Big Top Manufacturing to provide and install two (2) custom fabric structures to protect certain equipment and materials from certain weather elements at an estimated cost of \$70,000.00.

Regarding R-3-23, Manager of Water Operations Bostick advised the Committee that approval and ratification of Work Authorization Order No. 018 under Contract QR-12/21 with Benchmark Construction Co. Inc. would authorize the contractor to install new cathodic protection systems to mitigate stray current from a 36" Nicor gas main to ensure the Commission's 72" diameter steel water mains meets current cathodic protection standards by adding galvanic anode beds in multiple areas across the steel pipelines at an estimated cost of \$92,500.00.

Under Other Business: Regarding the WaterLink Communities (Montgomery, Oswego and Yorkville), Manager of Water Operations Bostick advised the Committee that engineering qualifications were received from four (4) potential firms to perform Phase I Engineering Services to design the 27 plus miles of transmission and feeder water mains necessary to serve the WaterLink Communities; three (3) firms were short listed for in-person presentations and interviews which were held on May 18<sup>th</sup> and at which Chairman Fennel was a participant. Upon completion of the interviews, a single firm was identified as most qualified and asked to present their scope and fees to be negotiated and presented to the Board for consideration, tentatively scheduled for June 15<sup>th</sup>. The Manager of Water Operations advised the Committee that also tentatively scheduled for June 15<sup>th</sup> is the presentation of the Intergovernmental Escrow Agreements with the WaterLink Communities which will enable the funding mechanisms for costs of the pipeline designs.

Manager of Water Operations Bostick advised the Committee that staff is currently seeking applicants to fill the newly created position of Manager of Engineering and capital Improvement Programs.

Manager of Water Operations Bostick reported that the SCADA System contract is ongoing with Control Room remodeling underway as well as several project workshops which continue to coordinate and develop the SCADA system graphics, programming, reporting and security.

Chairman Fennell inquired with the Committee if there were any further questions regarding the action items. Hearing none, Commissioner Bouckaert moved to recommend approval of items 2 and 3 of the Engineering and Construction Committee portion of the Commission Agenda. Seconded by Commissioner Saverino and unanimously approved by a Voice Vote.

Chairman Fennell inquired the Committee if any other business or other items to be discussed. Hearing none, and with no other items coming before the Committee, Commissioner Bouckaert moved to adjourn the meeting at 6:20 P.M. Seconded by Commissioner Novotny and unanimously approved by a Voice Vote.



## MEMORANDUM

**To:** Paul May – General Manager

**From:** Chris Bostick – Manager of Water Operations

Mike Weed – Operations & Instrumentation Supervisor  
Dariusz Panaszek – Pipeline & Remote Facilities Supervisor  
Jessica Haney – Project Engineer  
Denis Cuvalo – SCADA and Information Technology Supervisor

**Date:** 6/8/2023

**Subject:** Status of Operations and Construction

### Operations Overview

The Commission's sales for the month of May 2023 were a total of 2.46 billion gallons. This represents an average daily demand of 79.4 million gallons per day (MGD), which is higher than the May 2022 average day demand of 73.7 MGD. The maximum day demand was 103.4 MGD recorded on May 31, 2023, which is higher than the May 2022 maximum day demand of 84.6 MGD. The minimum day flow was 64 MGD.

The Commission's recorded total precipitation for the month of May 2023 was .54 inches compared to 4.93 inches for May 2022. The level of Lake Michigan for May 2023 is 579.66 (Feet IGLD 1985) compared to 579.92 (Feet IGLD 1985) for May 2022.

### Operations & Instrumentation Maintenance and Construction Overview

The DuPage Pump Station's High Lift Pump (HLP) and Motor rehabilitation program includes inspecting, cleaning, and repairing one pump and motor assembly per year. HLP #9 and Motor #9 were removed and sent to Midwest Service Center for cleaning and performing electromechanical checks and provision of a status report including documentation of necessary repairs. The cleaning and repair services are in process, delivery of the motor occurred on April 6th, and reinstallation and assembly of the pump and motor is scheduled for late June.

The start-up of newly installed water quality monitoring equipment at various locations throughout the distribution system is ongoing. Currently, 9 units are active and monitoring, and 6 units are in the process of being installed and tentatively scheduled for start-up in late June.

### **Lexington Pump Station**

AECOM Technical Services and Staff have nearly completed a comprehensive Condition Assessment of the Lexington Pump Station's critical facilities and have tendered the draft report for Staff review. A report will be delivered to the Committee prior to the next regularly scheduled Committee meeting.

### **Pipeline & Remote Facilities Maintenance and Construction Overview**

Pipeline Staff continues blow-off valve exercising and structure inspections.

Remote Facilities Staff continues Meter Stations' maintenance and corrective work programs.

Pipeline Staff continues inspecting and performing maintenance work on existing Cathodic Protection Test Stations.

Resolution R-30-23 appears on the agenda requesting approval of the Revision to Work Authorization Order No. 016 under the Quick Response Contract QR-12/21, to Benchmark Construction Co., Inc. for an additional amount of \$299,803.19 for the work necessary to remediate severe corrosion found on the 72-inch West Discharge steel water main and to prevent a potentially catastrophic failure.

The annual cathodic Test Point and Close Interval Survey for the pipeline transmission and distribution system is 40% complete. Staff anticipates completing approximately 85%, or roughly 170 miles of pipeline this year.

R-24-23 appears on the agenda seeking approval of a First Amendment to Task Order No. 06 with DelasCasas CP, LLC for additional design, residential engineering, and commissioning services for a new cathodic protection system on the Inner Belt Transmission main (TIB-01/03) which is a 72" diameter steel pipeline at an increase cost of \$62,500.00.

R-25-23 appears on the agenda seeking approval of a First Amendment to Task Order Nos. 06 and 07 with Northern Inspection Services, LLC for residential engineering and commissioning services for replacement cathodic protection systems on the Outer Belt Transmission main (TOB-E/87) and new cathodic protection systems on the South Transmission Main (TS-3/88) at an increase cost of \$26,720.00 and \$45,800.00 respectively.

### **Engineering & Capital Improvement Program Overview**

A kick-off meeting with Donohue and Associates was held on June 7th to begin design services related to necessary improvements to ROV10A which include structural, electrical and electromechanical improvements.

The DPPS Emergency Generation System Modifications (Contract PSD-10/22) project is ongoing. R-26-23 appears on the agenda seeking approval of Change Order No. 02 to furnish and install insulated panels for the Outside Air Intake Plenum for an additional expense of \$53,700.11. Construction is recovering from

supply chain delays in receiving and installing concrete masonry block in lieu of structural glazed block. The contractor is also starting to install precast panels for the new building addition. The Contract Completion Date remains as February 24, 2024, and the total Change Order percentage to date is 2.78%.

Caterpillar/Altorfer Power Systems and Staff and the Engineers continue working through the submittal documents for the Generator Controls Update Project. The work is now tentatively scheduled for September.

Schneider Electric, the Building Automation System (BAS) upgrade contractor has completed the installation of upgraded HVAC network controllers and Lighting Controls in the Generator Facilities with punchlist and programming work wrapping up.

Johnson Controls has completed the rooftop chiller replacements and chilled water pumps and are operating as intended. Punchlist and record documentation efforts are underway.

The coating rehabilitation of piping in the Influent, Effluent, and 72" Meter Buildings is winding down. The contractor has finished applying insulative coatings to the 84" diameter pipe in the East Effluent Building, the 72" Meter Building, and the Reservoir Influent Building. The contractor is working to repair coating defects found in the West Effluent Building.

### **WaterLink Communities (Montgomery/Oswego/Yorkville)**

Engineering qualifications were received from four (4) potential firms to perform Phase I Engineering Services to design the 27 plus miles of transmission and feeder water mains necessary to serve the WaterLink Communities. With input from the Communities, three (3) firms were short listed for in-person presentations and interviews held on May 18<sup>th</sup>. Upon completion of the interviews, LAN and Associates was selected as the finalist and presented their scope and fees which have been negotiated and appear on the Agenda as R-28-23. In addition, appearing on the Administration Committee agenda is R-27-23 is the presentation of the Intergovernmental Escrow Agreements with the WaterLink Communities which will enable the funding mechanisms for costs of the pipeline designs going forward.

### **SCADA & Information Technology Overview**

The SCADA Replacement Project (Contract PSD-9/21) is ongoing. The Control Room remodel is ongoing, with the light fixtures, Terrazzo floor, furniture installation and electrical work nearing completion. The new SCADA system is slowly taking form, with Commission staff working with Concentric Integration to finish the design of the Pump Station HMI screens. Workshops are continuing in preparation for upcoming tasks such as the DPPS UPS installation, duct bank installation, the campus Fiber backbone replacement, and most importantly the DWC campus control panel replacement. There has been constant effort from Commission staff in providing their input and knowledge in the development of this system and the project is progressing under budget and on schedule.

**June 2023 Commission Agenda Items:**

- R-24-23:** A Resolution Approving a First Amendment to Task Order No. 6 under a Master Contract with DeLasCasas CP, LLC **(Not-To-Exceed Cost of \$62,500.00)**
- R-25-23:** A Resolution Approving First Amendments to Task Order Nos. 06 and 07 under a Master Contract with Northern Inspection Services, LLC **(Task Order No. 06 - Estimated Not-To-Exceed \$26,720.00 and Task Order No. 07 - Estimated Not-To-Exceed \$45,800.00)**
- R-26-23:** A Resolution Approving and Ratifying Certain Change Orders for a Contract for the Construction of DPPS Emergency Generation System Modifications (Contract PSD-10/22) **(Change Order No. 02 – Increase of Contract Price by \$53,700.11.)**
- R-28-23:** A Resolution approving an Engineering Contract for WaterLink Pipeline Extension **(LAN and Associates – Phase I Services – \$4,280,000.00)**
- R-30-23:** A Resolution to Approve Certain Revised Work Authorization Orders Under Quick Response Contract QR-12/21 **(WAO No. 016R1 – Benchmark Construction – Additional Cost of \$299,803.19)**
- R-31-23:** A Resolution to Approve Certain Work Authorization Orders Under Quick Response Contract QR-12/21 **(WAO No. 020 – Rossi Contractors – Estimated Cost of \$105,610.00)**

**Attachments**

1. DuPage Laboratory Bench Sheets for May 2023
2. Water Sales Analysis 01-May-2018 to 30-May-2023

DUPAGE WATER COMMISSION  
PWS FACILITY ID# - IL435400  
MONTHLY OPERATIONS REPORT  
DUPAGE WATER COMMISSION LABORATORY BENCH SHEET RESULTS  
MAY 2023

DATE	LEXINGTON P.S. SUPPLY			DUPAGE P.S. DISCHARGE							ANALYST INT.
	FREE Cl2 (mg/L)	TURBIDITY (ntu)	O-PO4 (mg/L)	FREE Cl2 (mg/L)	TURBIDITY (ntu)	TEMP (°F)	pH	Fluoride (mg/L)	O-PO4 (mg/L)	P.A.C. (LBS/MG)	
1	1.27	0.07	0.61	1.28	0.08	51	7.2	0.7	0.57	0	KD
2	1.36	0.07	0.57	1.31	0.08	52	7.4	0.7	0.53	0	RC
3	1.44	0.07	0.56	1.39	0.08	52	7.3	0.7	0.52	0	RC
4	1.32	0.07	0.56	1.30	0.09	52	7.3	0.7	0.59	0	RC
5	1.34	0.06	0.64	1.27	0.08	52	7.2	0.7	0.57	0	RC
6	1.39	0.09	0.59	1.38	0.09	52	7.3	0.8	0.58	0	AM
7	1.36	0.09	0.58	1.39	0.09	51	7.3	0.8	0.59	0	AM
8	1.39	0.06	0.55	1.34	0.09	52	7.3	1.0	0.59	0	RC
9	1.32	0.07	0.55	1.27	0.07	52	7.3	0.9	0.54	0	RC
10	1.41	0.10	0.60	1.34	0.08	52	7.3	1.0	0.59	0	AM
11	1.38	0.09	0.61	1.31	0.09	51	7.3	0.9	0.58	0	AM
12	1.44	0.08	0.59	1.40	0.09	52	7.3	1.0	0.59	0	AM
13	1.32	0.09	0.59	1.38	0.08	52	7.3	1.0	0.60	0	BM
14	1.50	0.07	0.59	1.36	0.08	53	7.3	1.0	0.57	0	BM
15	1.47	0.09	0.60	1.39	0.09	53	7.3	0.9	0.60	0	AM
16	1.43	0.09	0.61	1.37	0.10	53	7.3	1.0	0.58	0	AM
17	1.46	0.10	0.62	1.42	0.10	53	7.3	1.0	0.61	0	BM
18	1.38	0.08	0.60	1.32	0.09	53	7.3	0.9	0.61	0	BM
19	1.47	0.08	0.61	1.46	0.08	53	7.3	0.9	0.62	0	BM
20	1.41	0.09	0.62	1.38	0.08	54	7.3	1.0	0.62	0	BM
21	1.38	0.08	0.63	1.29	0.08	56	7.2	0.9	0.62	0	RC
22	1.25	0.09	0.61	1.24	0.09	55	7.2	0.9	0.61	0	BM
23	1.37	0.07	0.61	1.40	0.06	55	7.2	0.9	0.61	0	BM
24	1.28	0.08	0.62	1.33	0.09	55	7.2	1.0	0.60	0	AM
25	1.39	0.08	0.60	1.41	0.09	55	7.2	1.0	0.59	0	AM
26	1.35	0.09	0.63	1.31	0.10	55	7.3	1.1	0.60	0	AM
27	1.41	0.07	0.60	1.37	0.06	56	7.4	1.0	0.60	0	BM
28	1.45	0.08	0.61	1.48	0.08	56	7.3	1.0	0.60	0	BM
29	1.43	0.09	0.60	1.44	0.09	56	7.3	1.0	0.61	0	AM
30	1.38	0.10	0.62	1.39	0.10	57	7.4	1.0	0.60	0	AM
31	1.39	0.09	0.60	1.37	0.10	57	7.3	1.0	0.60	0	BM

AVG.	1.39	0.08	0.60	1.36	0.09	53	7.3	0.9	0.59	0
MAX.	1.50	0.10	0.64	1.48	0.10	57	7.4	1.1	0.62	0
MIN.	1.25	0.06	0.55	1.24	0.06	51	7.2	0.7	0.52	0


6/5/23  
Mike Weed, Operations Supervisor Date  
Illinois ROINC # 186860234

DU PAGE WATER COMMISSION  
WATER SALES ANALYSIS

01-May-92 TO 31-May-23

PER DAY AVERAGE 78,050,280

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-20	2,084,924,000	2,141,838,951	97.34%	\$10,362,072.28	\$8,513,809.83	376,100	0.02%	97.36%	\$4.97	\$3.975
Jun-20	2,522,634,000	2,596,146,493	97.17%	\$12,537,490.98	\$10,571,508.52	731,078	0.03%	97.20%	\$4.97	\$4.072
Jul-20	2,782,507,000	2,872,440,835	96.87%	\$13,829,059.79	\$11,696,579.08	647,000	0.02%	96.89%	\$4.97	\$4.072
Aug-20	3,078,522,000	3,180,137,701	96.80%	\$15,300,254.34	\$12,949,520.72	3,694,350	0.12%	96.92%	\$4.97	\$4.072
Sep-20	2,427,570,000	2,510,646,051	96.69%	\$12,065,022.90	\$10,223,350.72	1,148,848	0.05%	96.74%	\$4.97	\$4.072
Oct-20	2,143,671,000	2,203,255,879	97.30%	\$10,654,044.87	\$8,971,657.94	748,000	0.03%	97.33%	\$4.97	\$4.072
Nov-20	1,897,985,000	1,957,960,123	96.94%	\$9,432,985.45	\$7,972,813.62	200,026	0.01%	96.95%	\$4.97	\$4.072
Dec-20	1,955,711,000	2,027,160,874	96.48%	\$9,719,883.67	\$8,254,599.08	348,955	0.02%	96.49%	\$4.97	\$4.072
Jan-21	1,988,344,000	2,040,857,402	97.43%	\$9,882,069.68	\$8,310,371.34	205,828	0.01%	97.44%	\$4.97	\$4.072
Feb-21	1,915,366,000	1,971,858,620	97.14%	\$9,519,369.02	\$8,029,408.30	290,224	0.01%	97.15%	\$4.97	\$4.072
Mar-21	1,986,888,000	2,055,661,022	96.65%	\$9,874,833.36	\$8,370,651.68	512,237	0.02%	96.68%	\$4.97	\$4.072
Apr-21	1,959,759,000	2,010,756,459	97.46%	\$9,740,002.23	\$8,187,800.30	1,013,926	0.05%	97.51%	\$4.97	\$4.072
May-21	2,331,364,000	2,401,447,849	97.08%	\$11,586,879.08	\$9,778,695.64	1,625,835	0.07%	97.15%	\$4.97	\$4.072
Jun-21	2,646,312,000	2,727,518,236	97.02%	\$13,152,170.64	\$11,226,465.06	872,815	0.03%	97.05%	\$4.97	\$4.116
Jul-21	2,661,520,000	2,750,318,994	96.77%	\$13,227,754.40	\$11,320,312.98	772,815	0.03%	96.80%	\$4.97	\$4.116
Aug-21	2,736,795,000	2,818,422,046	97.10%	\$13,601,871.15	\$11,600,625.14	458,555	0.02%	97.12%	\$4.97	\$4.116
Sep-21	2,616,212,000	2,698,022,374	96.97%	\$13,002,573.64	\$11,105,060.09	1,237,080	0.05%	97.01%	\$4.97	\$4.116
Oct-21	2,128,141,000	2,179,013,387	97.67%	\$10,576,860.77	\$8,968,819.10	396,147	0.02%	97.68%	\$4.97	\$4.116
Nov-21	1,896,311,000	1,961,815,221	96.66%	\$9,424,665.67	\$8,074,831.45	462,613	0.02%	96.68%	\$4.97	\$4.116
Dec-21	1,950,793,000	2,010,917,641	97.01%	\$9,695,441.21	\$8,276,937.01	382,031	0.02%	97.03%	\$4.97	\$4.116
Jan-22	2,046,043,000	2,110,214,643	96.96%	\$10,168,833.71	\$8,685,674.26	621,078	0.03%	96.99%	\$4.97	\$4.116
Feb-22	1,879,376,000	1,935,513,559	97.10%	\$9,340,498.72	\$7,966,573.81	247,750	0.01%	97.11%	\$4.97	\$4.116
Mar-22	1,990,472,000	2,061,912,643	96.54%	\$9,892,645.84	\$8,486,832.44	459,838	0.02%	96.56%	\$4.97	\$4.116
Apr-22	1,935,992,000	1,981,414,298	97.71%	\$9,621,880.24	\$8,155,501.25	285,652	0.01%	97.72%	\$4.97	\$4.116
May-22	2,276,513,000	2,344,221,635	97.11%	\$11,792,337.34	\$9,648,816.25	5,698,667	0.24%	97.35%	\$5.18	\$4.116
Jun-22	2,682,480,000	2,772,533,130	96.75%	\$13,895,246.40	\$11,982,888.19	690,925	0.02%	96.78%	\$5.18	\$4.322
Jul-22	2,804,661,000	2,892,532,635	96.96%	\$14,528,143.98	\$12,501,526.05	883,858	0.03%	96.99%	\$5.18	\$4.322
Aug-22	2,688,224,000	2,772,533,130	96.96%	\$13,925,000.32	\$11,982,888.19	906,806	0.03%	96.99%	\$5.18	\$4.322
Sep-22	2,415,535,000	2,474,643,822	97.61%	\$12,512,471.30	\$10,695,410.60	1,021,063	0.04%	97.65%	\$5.18	\$4.322
Oct-22	2,153,410,000	2,220,050,683	97.00%	\$11,154,663.80	\$9,595,059.05	2,891,786	0.13%	97.13%	\$5.18	\$4.322
Nov-22	1,919,552,000	1,979,550,491	96.97%	\$9,943,279.36	\$8,555,617.22	1,008,092	0.05%	97.02%	\$5.18	\$4.322
Dec-22	2,071,113,000	2,123,449,660	97.54%	\$10,728,365.34	\$9,177,549.43	552,389	0.03%	97.56%	\$5.18	\$4.322
Jan-23	2,014,750,000	2,060,255,805	97.79%	\$10,436,405.00	\$8,904,425.59	337,423	0.02%	97.81%	\$5.18	\$4.322
Feb-23	1,835,597,000	1,883,158,917	97.47%	\$9,508,392.46	\$8,139,012.84	529,206	0.03%	97.50%	\$5.18	\$4.322
Mar-23	1,971,974,000	2,026,257,691	97.32%	\$10,214,825.32	\$8,757,453.41	306,690	0.02%	97.34%	\$5.18	\$4.322
Apr-23	1,962,197,000	2,010,451,747	97.60%	\$10,164,180.46	\$8,689,172.45	349,596	0.02%	97.62%	\$5.18	\$4.322
May-23	2,474,377,000	2,540,440,833	97.40%	\$13,336,892.03	\$10,979,785.28	684,441	0.03%	97.43%	\$5.39	\$4.322
TOTALS (1)	886,104,824,798	911,702,316,823	97.19%	\$2,155,727,732.30	\$1,906,411,522.50	862,256,581	0.09%	97.29%	\$2.43	\$2.091

(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

May-22	2,276,513,000	2,344,221,635	97.11%	11,792,337	9,648,816			\$5.18	\$4.116
May-23	2,474,377,000	2,540,440,833	97.40%	13,336,892	10,979,785			\$5.39	\$4.322
	197,864,000	196,219,198		\$1,544,555	\$1,330,969				
	8.7%	8.4%		13.1%	13.8%				
Month									
May-22	2,276,513,000	2,344,221,635	97.11%	11,792,337	9,648,816			\$5.18	\$4.116
May-23	2,474,377,000	2,540,440,833	97.40%	13,336,892	10,979,785			\$5.39	\$4.322
	197,864,000	196,219,198		\$1,544,555	\$1,330,969				
	8.7%	8.4%		13.1%	13.8%				
May>Apr	512,180,000	529,989,086		3,172,712	2,290,613				



**Resolution #:** R-24-23

**Account:** 01-60-663200, 01-60-751200

**Approvals:** *Author / Manager / Finance / Admin*

**JH RCB CAP PDM**

## REQUEST FOR BOARD ACTION

**Date:** 6/8/2023

**Description:** **A Resolution Approving a First Amendment to Task Order No. 6 under a Master Contract with DeLasCasas CP, LLC**

**Agenda Section:** Engineering & Construction

**Originating Department:** Engineering

The Commission entered into a Master Contract with DeLasCasas CP, LLC for professional engineering services on August 23rd, 2021 in connection with such discrete projects as are delineated and described in Task Orders to be approved by the Commission. On October 20, 2022, the Commission approved R-59-22, Task Order No. 06 with DeLasCasas CP, LLC, for feasibility testing and design for Corrosion Mitigation on TIB-01/03. Resolution No. R-24-23 would approve A First Amendment to Task Order No. 06 for additional design services, residential engineering, and commissioning services of a new cathodic protection system on the Inner Belt Transmission Main (TIB-01/03).

While performing the annual 2021 Closed Interval Survey, the staff found that the 72" diameter steel transmission main was not receiving adequate cathodic protection in accordance with industry standards (Association for Materials Protection and Performance, formerly NACE). Task Order No. 06 enabled DeLasCasas CP, LLC to perform additional testing on the transmission main and to design a new CP system that would adequately protect the pipe from corrosion. Upon testing, DeLasCasas determined a rectified system was not feasible in this application and multiple sacrificial anode sites would need to be designed instead. First Amendment to Task Order No. 06 would also authorize DeLasCasas to provide resident engineering and commissioning services.

Approval of this resolution would increase the cost by \$62,500 and revising the not-to-exceed cost for Task Order No. 06 to \$102,600.

### **Recommended Motion:**

To adopt Resolution No. R-24-23.

DUPAGE WATER COMMISSION

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**RESOLUTION NO. R-24-23**

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A RESOLUTION APPROVING A FIRST AMENDMENT TO TASK ORDER NO. 06 UNDER A MASTER CONTRACT WITH DELASCASAS CP, LLC.

WHEREAS, the DuPage Water Commission (the “Commission”) entered into a contract with DeLasCasas CP, LLC (the “Consultant”) to provide, from time to time, professional engineering services in connection with various 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, pursuant to Resolution No. R-59-22, the Commission approved Task Order No. 6 to the Master Contract for Professional Engineering Services for the DuPage Water Commission; and

WHEREAS, the Commission and Consultant desire to further amend Task Order No. 06 to the Master Contract to add to the scope of work for Design, Resident Engineering, and Commissioning Services and to increase the not-to-exceed cost of the services, the Board of Commissioners of the DuPage Water Commission hereby finding and determining, based upon the representations of staff and consultant that the circumstances said to necessitate the changes were not reasonably foreseeable at the time Task Order No. 06 was signed, the changes are germane to the Task Order as signed, and/or the changes are in the best interest of the DuPage Water Commission and authorized by law; and

WHEREAS, the Consultant has approved the First Amendment to Task Order No. 06 attached hereto and by this reference incorporated herein and made a part hereof as Exhibit 1;

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.

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 the 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 be in full force and effect from and after its adoption.

	Aye	Nay	Absent	Abstain
Bouckaert, D.				
Cuzzone, N.				
Fennell, J.				
Healy, J.				
Novotny, D.				
Pruyn, J.				
Rush, K.				
Russo, D.				
Saverino, F.				
Suess, P.				
Van Vooren, D.				
Zay, J.				

ADOPTED THIS \_\_\_ DAY OF \_\_\_\_\_, 2023.

\_\_\_\_\_  
James Zay, Chairman

ATTEST:

\_\_\_\_\_  
Danna Mundall, Clerk

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EXHIBIT 1

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## FIRST AMENDMENT TO TASK ORDER NO. 06

In accordance with Section 1.1 of the Master Contract between the DuPage Water Commission (“Owner”) and with DeLasCasas CP, LLC (“Consultant”), for Professional Engineering Services dated August 23, 2021 (the “Contract”), Owner and Consultant agree to amend, effective June 16, 2023, Task Order No. 06 for Corrosion Mitigation on TIB-01/03,

1. **Project:**

Perform Feasibility Testing, Design, Resident Engineering, and Commissioning of a Cathodic Protection System for the Inner Belt Transmission Main (Contract TIB-01/03) as delineated in the proposal from DeLasCasas CP, LLC dated September 22nd, 2022, and as modified by DeLasCasas’s proposals dated May 25, 2023.

2. **Services of Consultant:**

Section 2 entitled “Services of Consultant” of Task Order No. 6 shall be replaced in its entirety as follows:

“A. Feasibility Testing:

1. All anodes will be disconnected prior to the start of this project.
  - A. Measure and record the potential and current at the Test Station with sacrificial anode systems and disconnect the anodes.
  - B. Leave the anodes disconnected from the pipeline. After two weeks, measure depolarized pipe and anode to soil potentials at all the Test Station.
2. Perform current requirement testing at three locations along the pipeline route.
  - A. Use portable power source and anodes and the existing sacrificial anode to inject current on the pipeline.
  - B. Measure On-Off close and remote potentials at consecutive Test Station at both sides from the location of the provisional CP systems.
  - C. These testing will validate or update the original design proposed on the pipeline alignment sheets for pipeline installation, in relation to the pipeline cathodic protection system.
3. Measure soil resistivities at six locations on the pipeline ROW and three locations for new possible sacrificial anode systems (SAS).

- B. Design of Cathodic Protection System:
1. Based on the results of the current requirement testing, soil resistivity, and original sacrificial anodes distribution, design 3 test wells to determine the requirements for a galvanic CP system. Engineer shall include:
    - A. Sacrificial Anode System or Impressed Current System design calculations.
    - B. Constructability Study for the selected sites.
    - C. Installation drawing for the CP systems.
    - D. Bill of materials and material specifications for selected sites.
  2. Perform field visits for assessment at the first three test wells. Engineer shall include:
    - A. Synchronized interruption of the three sites.
    - B. Pipe to soil potentials at all the TIB Test Station, On & Off.
    - C. 3D plot of the obtained potentials.
    - D. Comparison of the polarization potentials with the old survey data.
    - E. Determination of which sites are needed from the following:
      - 1) Stationing 22+70, GPS 41.864968° -87.958823°
      - 2) Stationing 27+57, GPS 41.865880° -87.960000°
      - 3) Stationing 34+89, GPS 41.867414° -87.960556°
      - 4) Stationing 43+50, GPS 41.870163° -87.960928°
      - 5) Stationing 49+33, GPS 41.871751° -87.960949°
      - 6) Stationing 57+05, GPS 41.873587° -87.960959°
      - 7) Stationing 80+40, GPS 41.880393° -87.961157°
      - 8) Stationing 91+50, GPS 41.883369° -87.961113°
      - 9) Stationing 104+15, GPS 41.886378° -87.959033°
  3. Additional design documentation for anode sites as required. Engineer shall include:
    - A. Review of current requirements.
    - B. Design calculations to adjust the number of anodes/sites.
    - C. Installation drawings per site and bill of materials for installation.
- C. Resident Engineering and Commissioning Services:

1. Field visits during installation.

A. Inspect sacrificial anode system (SAS) installation to ensure the contractor follows installation drawings, specifications, and materials quality.

(1) Respond to any questions from the installation contractor or client's representative.

(2) Facilitate understanding of the installation drawings and preliminary testing of the installation materials as required.

2. Commissioning of the SAS

A. Visit each site and perform evaluation of:

(1) Record the sub-meter GPS of the beginning and end of the ground bed and connections to the pipeline.

(2) SAS ground bed resistance to remote earth measurements.

(3) Current returning to the SAS from the pipeline.

(4) Potentials to portable reference cell of the coupon components, anodes and structure with anodes disconnected.

(5) Potentials to stationary reference cell of the coupon components at the moment when the anodes are connected to the pipeline and two days after.

(a) A data logger will be connected for 48 hours to assess the level of polarization reached after the SAS is connected to the pipeline.

(6) As-built drawings preparation.

(7) Provide a commissioning report with conclusions and recommendations.

D. Additional Services:

None”

3. **Completion Date:**

Section 5, entitled "Completion Date" of Task Order No. 6 shall be amended in its entirety so that said Section 5 shall hereafter be and read as follows:

"5. Completion Date:

10/1/2023 plus extensions, if any, authorized by a Change Order issued pursuant to Section 2.1 of the Contract."

4. **Contract Price:**

Section 8, entitled "Contract Price" of Task Order No. 6 shall be amended in its entirety so that said Section 8 shall hereafter be and read as follows:

"8. Contract Price:

For providing, performing, and completing each phase of Services, an amount equal to Consultant's Direct Labor Costs opposite each such phase, plus an amount equal to the actual costs of all Reimbursable Expenses, but not to exceed, in each phase of Services, the following not to exceed amount set forth opposite each such phase except as adjusted by a Change Order issued pursuant to Section 2.1 of the Contract.

Feasibility Testing	\$15,600.00
Design of 3 Test Wells and CP System	\$43,000.00
Resident Engineering and Commissioning of 3 Test Wells and CP System	\$44,000.00

The Effective Date of this Task Order is June 16, 2023.

DUPAGE WATER COMMISSION

By: \_\_\_\_\_  
Paul D. May, P.E.  
General Manager

DESIGNATED REPRESENTATIVE FOR TASK ORDER:

Name: Jessica Haney  
Title: Project Engineer  
Address: 600 East Butterfield Road, Elmhurst, Illinois 60126-4642  
E-mail Address: haney@dpwc.org  
Phone: (630) 834-0100  
Fax: (630) 834-0120

DELASCASAS CP, LLC

By: \_\_\_\_\_  
Jennifer De Las Casas  
LLC Managing Member

DESIGNATED REPRESENTATIVE FOR TASK ORDER:

Name: Rogelio De Las Casas  
Address: 111 Ambassador Ave, Romeoville, Illinois, 60446  
E-mail Address: rogelio@delascasascp.com  
Phone: (312) 835-0272



**Resolution #:** R-25-23

**Account:** 01-60-751200 \$72,520.00

**Approvals:** *Author / Manager / Finance / Admin*

**JH RCB CAP PDM**

## REQUEST FOR BOARD ACTION

**Date:** 6/8/2023

**Description:** **A Resolution Approving First Amendments to Task Order Nos. 06 and 07 under a Master Contract with Northern Inspection Services, LLC**

**Agenda Section:** Engineering & Construction

**Originating Department:** Engineering

The Commission entered into a master contract with Northern Inspection Services, LLC (NIS) dated August 23, 2021, for professional engineering services in connection with such discrete projects as are delineated and described in Task Orders to be approved by the Commission. On September 15, 2022, the Commission approved R-55-22, Task Order Nos. 06 and 07 with NIS for feasibility testing and design for Corrosion Mitigation on The South Transmission Main (TS-3/88) and The Outer Belt Transmission Main (TOB-E/87). Resolution No. R-25-23 would approve the First Amendments to Task Order Nos. 06 and 07 under the Master Contract for additional residential engineering and commissioning services of new cathodic protection systems on both TS-3/88 and TOB-E/87.

During the annual closed interval survey (CIS), NIS identified several areas of TS-3/88 and TOB-E/87 that were not receiving adequate cathodic protection as according to industry standards (Association for Materials Protection and Performance, formerly NACE) criteria.

Under Task Order No. 06, NIS performed testing and designed an additional rectified cathodic protection system for TS-3/88 to obtain proper cathodic protection criteria. The First Amendment to Task Order No. 06 would enable NIS to perform resident engineering and commissioning services to install the new rectified system.

Under Task Order No. 07, NIS evaluated several areas of TOB-E/87 that were not receiving adequate cathodic protection due to depleted anodes on the current rectified system. Also under Task Order No. 07, NIS designed replacement anode beds and rectifier systems to replace existing anode beds within the system. The First Amendment to Task Order No. 07 would enable NIS to perform resident engineering and commissioning services to install the new systems.

Resolution R-24-23 would approve the First Amendments to Task Order Nos. 06 and No. 07 to Northern Inspection Services, LLC for the work necessary to perform resident engineering and commissioning of new cathodic protection system for the south and outer belt transmission main.

Approval of this resolution would increase the cost of Task Order No. 06 by \$26,720.00 for a revised cost not-to-exceed of \$41,610.00.

Approval of this resolution would also increase the cost of Task Order No. 07 by \$45,800.00 for a revised cost not-to-exceed of \$70,360.00.

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**Recommended Motion:**

To adopt Resolution No. R-25-23.

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EXHIBIT 1

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DUPAGE WATER COMMISSION

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**RESOLUTION NO. R-25-23**

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A RESOLUTION APPROVING FIRST AMENDMENTS TO TASK ORDER NOS. 06 AND 07  
UNDER A MASTER CONTRACT WITH NORTHERN INSPECTION SERVICES LLC.

WHEREAS, the DuPage Water Commission (the "Commission") entered into a contract with Northern Inspection Services, LLC (the "Consultant") to provide, from time to time, professional engineering services in connection with various 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, pursuant to Resolution No. R-55-22, the Commission approved Task Order Nos. 06 and 07 to the Master Contract for Professional Engineering Services for the DuPage Water Commission; and

WHEREAS, the Commission and Consultant desire to further amend Task Order Nos. 06 and 07 to the Master Contract to add to the scope of work for Resident Engineering and Commissioning Services and to increase the not-to-exceed of the services, the Board of Commissioners of the DuPage Water Commission hereby finding and determining, based upon the representations of Staff and Consultant that the circumstances said to necessitate the changes were not reasonably foreseeable at the time Task Order Nos. 06 and 07 were signed, the changes are germane to the Task Orders as signed, and/or the changes are in the best interest of the DuPage Water Commission and authorized by law; and

WHEREAS, the Consultant has approved the First Amendments to Task Order Nos. 06 and 07 attached hereto and by this reference incorporated herein and made a part hereof as Exhibit 1;

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.

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 the 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 be in full force and effect from and after its adoption.

	Aye	Nay	Absent	Abstain
Bouckaert, D.				
Cuzzone, N.				
Fennell, J.				
Healy, J.				
Novotny, D.				
Pruyn, J.				
Rush, K.				
Russo, D.				
Saverino, F.				
Suess, P.				
Van Vooren, D.				
Zay, J.				

ADOPTED THIS \_\_\_ DAY OF \_\_\_\_\_, 2023.

\_\_\_\_\_  
James Zay, Chairman

ATTEST:

\_\_\_\_\_  
Danna Mundall, Clerk

## FIRST AMENDMENT TO TASK ORDER NO. 06

In accordance with Section 1.1 of the Master Contract between the DuPage Water Commission (“Owner”) and Northern Inspection Services, LLC (“Consultant”) for Professional Engineering Services dated August 23, 2021 (the “Contract”), Owner and Consultant agree to amend, effective June 16, 2023, Task Order No. 06 for Feasibility Testing on TIB-01/03:

1. **Project:**

Section 1 entitled “Project” of Task Order No. 06 shall be amended in its entirety so that said Section 1 shall hereafter be and read as follows:

“Perform Feasibility Testing, Design, Resident Engineering, and Commissioning for a new cathodic protection system for areas not meeting AMPP’s cathodic protection criteria on the South Transmission Main (TS-3/88), based upon Northern Inspection Service’s proposal 22-465P dated August 30, 2022, and as modified by Northern Inspection Service’s proposal dated June 5, 2023.”

2. **Services of Consultant:**

Section 2 entitled “Services of Consultant” of Task Order No. 6 shall be amended in its entirety that said Section 2 shall hereafter be and read as follows:

“A. Feasibility Testing and Troubleshooting Services to include:

1. Mobilization at all project locations with proper cathodic protection testing equipment.
2. Performance of field testing to determine whether the DWC main is shorted to the casing across 75th street.
3. Performance of current requirement testing to determine if the potentials on Tanksite #4 feeder main can be improved if a casing short exists.
4. Performance of current requirement testing near the river and short locating at the meter station west of the river to determine if potentials can be improved.
5. Preparation, for review and approval of DWC Staff, of a report summarizing the inspections. The report shall include as found and as left conditions, a summary of the results of data obtained during testing, and recommendations.

B. Resident Engineering and Commissioning

1. Provide construction oversight and commissioning of two (2) new CP systems for an estimated time period of 12 days.
  - A. Mobilize at project locations.
  - B. Oversee and verify construction and installation procedures.

- C. Perform commissioning of newly installed CP systems to ensure they are meeting AMPP criteria.
- D. Provide updated as-built drawings.
- E. Provide final reports.

C. Additional Services  
None”

3. **Completion Date:**

Section 5, entitled “Completion Date” of Task Order No. 06 shall be amended in its entirety so that said Section 5 shall hereafter be and read as follows:

“5. Completion Date:

11/1/2023 plus extensions, if any, authorized by a Change Order issued pursuant to Section 2.1 of the Contract.”

4. **Contract Price:**

Section 8, entitled “Contract Price” of Task Order No. 06 shall be amended in its entirety so that said Section 8 shall hereafter be and read as follows:

“8. Contract Price:

For providing, performing, and completing each phase of Services, an amount equal to Consultant’s Direct Labor Costs opposite each such phase, plus an amount equal to the actual costs of all Reimbursable Expenses, but not to exceed, in each phase of Services, the following not to exceed amount set forth opposite each such phase except as adjusted by a Change Order issued pursuant to Section 2.1 of the Contract.

Feasibility Testing	\$14,890.00
Resident Engineering and Commissioning	\$26,720.00
Task Order Not-To-Exceed	<hr style="width: 100%; border: 0.5px solid black;"/> \$41,610.00”

FIRST AMENDMENT TO TASK ORDER NO. 06

In all other respects, Task Order No. 06 to the Contract shall remain in full force and effect, and Task Order No. 06 to the Contract shall be binding on both parties as hereinabove amended.

The Effective Date of this Task Order is June 16, 2023.

DuPAGE WATER COMMISSION

By: \_\_\_\_\_  
Paul D. May, P.E., General Manager

DESIGNATED REPRESENTATIVE FOR TASK ORDER:

Name: Jessica Haney  
Title: Project Engineer  
Address: 600 East Butterfield Road, Elmhurst, Illinois 60126-4642  
E-mail Address: haney@dpwc.org  
Phone: (630) 834-0100

NORTHERN INSPECTION SERVICES, LLC

By: \_\_\_\_\_  
Veronica Huckstorf, President

DESIGNATED REPRESENTATIVE FOR TASK ORDER:

Name: Ron Turner  
Title: Project Manager  
Address: 95 Center Drive, Gilberts IL, 60136  
E-mail Address: ron.turner@nismidwest.com  
Phone: (630) 399-3212

**FIRST AMENDMENT TO TASK ORDER NO. 07**

In accordance with Section 1.1 of the Master Contract between the DuPage Water Commission (“Owner”) and Northern Inspection Services, LLC (“Consultant”) for Professional Engineering Services dated August 23, 2021 (the “Contract”), Owner and Consultant agree to amend, effective June 16, 2023, Task Order No. 07 for Feasibility Testing on TOB-E/87:

1. **Project:**

Section 1 entitled “Project” of Task Order No. 07 shall be amended in its entirety so that said Section 1 shall hereafter be and read as follows:

“Perform Feasibility Testing, Design, Resident Engineering, and Commissioning for a new cathodic protection system for areas not meeting AMPP’s cathodic protection criteria on the Outer Belt Transmission Main (TOB-E/87), based upon Northern Inspection Service’s proposal 22-475P dated August 30, 2022, and as modified by Northern Inspection Service’s proposal dated June 5, 2023.”

2. **Services of Consultant:**

Section 2 entitled “Services of Consultant” of Task Order No. 07 shall be amended in its entirety that said Section 2 shall hereafter be and read as follows:

“A. Feasibility Testing and Troubleshooting Services to include:

1. Mobilization at all project locations with proper cathodic protection testing equipment.
2. Attempting to locate the anode header cable break at Rectifier #7. If header cable break cannot be found, NIS shall perform current requirement testing and determine if a replacement ground bed should be installed.
3. Performance of current requirement testing between stationing 261+00 and 286+00; determine if additional cathodic protection system should be installed near this location.
4. Preparation, for review and approval of DWC Staff, of a report summarizing the inspections. The report shall include as found and as left conditions, a summary of the results of data obtained during testing, and recommendations.

B. Resident Engineering and Commissioning

1. Provide construction oversight and commissioning of 4 new CP systems for an estimated time period of 36 days.

- A. Mobilize at project locations.
- B. Oversee and verify construction and installation procedures.
- C. Perform commissioning of newly installed CP systems to ensure they are meeting AMPP criteria.
- D. Provide updated as-built drawings.
- E. Provide final reports.

C. Additional Services

None”

3. **Completion Date:**

Section 5, entitled “Completion Date” of Task Order No. 07 shall be amended in its entirety so that said Section 5 shall hereafter be and read as follows:

“5. Completion Date:

11/1/2023 plus extensions, if any, authorized by a Change Order issued pursuant to Section 2.1 of the Contract.”

4. **Contract Price:**

Section 8, entitled “Contract Price” of Task Order No. 07 shall be amended in its entirety so that said Section 8 shall hereafter be and read as follows:

“8. Contract Price:

For providing, performing, and completing each phase of Services, an amount equal to Consultant’s Direct Labor Costs opposite each such phase, plus an amount equal to the actual costs of all Reimbursable Expenses, but not to exceed, in each phase of Services, the following not to exceed amount set forth opposite e each such phase except as adjusted by a Change Order issued pursuant to Section 2.1 of the Contract.

Feasibility Testing	\$14,560.00
Resident Engineering and Commissioning	\$45,800.00
Task Order Not-To-Exceed	\$72,520.00”

FIRST AMENDMENT TO TASK ORDER NO. 07

In all other respects, Task Order No. 07 to the Contract shall remain in full force and effect, and Task Order No. 07 to the Contract shall be binding on both parties as hereinabove amended.

The Effective Date of this Task Order is June 16, 2023.

DUPAGE WATER COMMISSION

By: \_\_\_\_\_  
Paul D. May, P.E.  
General Manager

DESIGNATED REPRESENTATIVE FOR TASK ORDER:

Name: Jessica Haney  
Title: Project Engineer  
Address: 700 East Butterfield Road, Elmhurst, Illinois 60126-4742  
E-mail Address: haney@dpwc.org  
Phone: (630) 834-0100

NORTHERN INSPECTION SERVICES, LLC

By: \_\_\_\_\_  
Veronica Huckstorf, President

DESIGNATED REPRESENTATIVE FOR TASK ORDER:

Name: Ron Turner  
Title: Project Manager  
Address: 95 Center Drive, Gilberts IL, 60136  
E-mail Address: ron.turner@nismidwest.com  
Phone: (630) 399-3212



**Resolution #:** R-26-23

**Account:** 01-60-722300 \$53,700.11

**Approvals:** *Author / Manager / Finance / Admin*

**JH RCB CAP PDM**

## REQUEST FOR BOARD ACTION

**Date:** 6/8/2023

**Description:** **A Resolution Approving and Ratifying Certain Change Orders for a Contract for the Construction of DPPS Emergency Generation System Modifications (Contract PSD-10/22)**

**Agenda Section:** Engineering & Construction

**Originating Department:** Engineering

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### **Change Order No. 2 to the Contract for the Construction of DPPS Emergency Generation System Modifications (Contract PSD-10/22)**

Change Order No. 2 would authorize, at a net increase in the Contract Price of \$53,700.11, due to the need to furnish and install thermal insulated wall panels for the Outside Air intake plenums in lieu of galvanized ductwork with insulation as specified by the Engineer. The Commission's Emergency Generation System's existing Outside Air intake plenum is constructed of thermal insulated wall panels and the extension of the plenums within the modified facilities should match existing, which will also assist in mitigating impacts of condensation. The thermal insulated wall panels were unintentionally omitted from the Engineer's Bidding Documents.

Approval of this Change Order would increase the net Contract Price by \$53,700.11 revising the Contract Price from \$4,210,500.46 to \$4,264,200.57 for a 2.78% net overall increase from the Original Contract Price including all previous Change Orders. Approval of this Change Order will not impact the amended Contract Completion Date. Approval of this Change Order does not authorize or necessitate a change in the Contract Price that is 50% or more of the original Contract Price nor, based upon the Contractor's sworn certification, authorize, or necessitate an increase in the price of any subcontract under the Contract that is 50% or more of the original subcontract price.

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### **Recommended Motion:**

To approve Resolution R-26-23.

DUPAGE WATER COMMISSION

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RESOLUTION NO. R-26-23

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**A RESOLUTION APPROVING AND RATIFYING CERTAIN CHANGE ORDERS TO A CONTRACT FOR THE  
CONSTRUCTION OF THE DPPS EMERGENCY GENERATION SYSTEM MODIFICATIONS  
(CONTRACT PSD-10/22)**

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, the Engineers 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.

	Aye	Nay	Absent	Abstain
Bouckaert, D.				
Cuzzone, N.				
Fennell, J.				
Healy, J.				
Novotny, D.				
Pruyn, J.				
Rush, K.				
Russo, D.				
Saverino, F.				
Suess, P.				
Van Vooren, D.				
Zay, J.				

ADOPTED THIS \_\_\_ DAY OF \_\_\_\_\_, 2023.

\_\_\_\_\_  
James Zay, Chairman

ATTEST:

\_\_\_\_\_  
Danna Mundall, Clerk

Board/Resolutions/2023/R-26-2023

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EXHIBIT 1

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DuPAGE WATER COMMISSION  
CHANGE ORDER

SHEET 1 OF 2

PROJECT NAME: PSD-10 DPPS Emergency Generation System Modifications

CHANGE ORDER NO. 02

LOCATION: DuPage County, Illinois

CONTRACT NO. PSD-10/22

CONTRACTOR: Joseph J. Henderson & Son, Inc.

DATE: 6/16/23

I. A. DESCRIPTION OF CHANGES INVOLVED:

Furnish and install thermal wall panels for the Outside Air Intake Plenum in lieu of galvanized ductwork with insulation.

B. REASON FOR CHANGE:

The Commission's Emergency Generation System's existing Outside Air intake plenum is constructed of thermal insulated wall panels and the extension of the plenums within the modified facilities should match existing. The thermal insulated wall panels were unintentionally omitted from the Engineer's Bidding Documents.

C. REVISION IN CONTRACT PRICE:

<u>Item</u>	<u>Description</u>	<u>Cost Increase</u>	<u>Time Extension</u>
1	Insulated Wall Panels for Outside Air Plenum	\$53,700.11	0 Days

II. CHANGE ORDER CONDITIONS:

1. The Contract Period established in the Contract, as signed or as modified by previous Change Orders shall remain unchanged as February 24, 2024.
2. Any Work to be performed under this Change Order shall be provided, performed, and completed in full compliance with, and as required by or pursuant to, the Contract, including any Specifications and Contract Drawings for the Work to be performed under this Change Order and for Work of the same type as the Work to be performed under this Change Order, and as specified in the preceding "Description of Changes Involved."
3. Unless otherwise provided herein, all Work included in this Change Order shall be guaranteed and warranted as set forth in, and Contractor shall not be relieved from strict compliance with, the guaranty and warranty provisions of the Contract.
4. All Work included in this Change Order shall be covered under the Bonds and the insurance coverages specified in the Contract. If the Contract Price, including this Change Order, exceeds the Contract

Price set forth in the Contract, as signed, by twenty percent (20%), Contractor shall submit to Owner satisfactory evidence of such increased coverage under the Bonds if requested by Owner.

III. ADJUSTMENTS IN CONTRACT PRICE:

1.	Original Contract Price	\$4,149,000.00
2.	Net Addition due to all previous Change Orders	\$61,500.46
3.	Contract Price, not including this Change Order	\$4,210,500.46
4.	<u>Increase</u> to Contract Price due to this Change Order	\$53,700.11
5.	Contract Price including this Change Order	\$4,264,200.57

RECOMMENDED FOR ACCEPTANCE:

CONSULTING ENGINEERS: Greeley & Hansen LLC

By: \_\_\_\_\_ ( )  
Signature of Authorized Representative Date

ACCEPTED: By my authorized signature below, being first duly sworn on oath, I certify on behalf of Contractor that this Change Order does not authorize or necessitate an increase in the price of any subcontract under the Contract that is 50% or more of the original subcontract price.

CONTRACTOR: Joseph J. Henderson & Son, Inc.

By: \_\_\_\_\_ ( )  
Signature of Authorized Representative Date

DUPAGE WATER COMMISSION:

By: \_\_\_\_\_ ( )  
Paul D. May, PE, General Manager Date



**Resolution #:** R-28-23

**Account:** 01-80-852010

**Approvals:** *Author / Manager / Finance / Admin*

**PDM RCB - PDM**

## REQUEST FOR BOARD ACTION

**Date:** 6/6/2023  
**Description:** Engineering Contract for WaterLink Pipeline Extension  
**Agenda Section:** Engineering & Construction  
**Originating Department:** Administration

The communities of Montgomery, Oswego, and Yorkville (the “WaterLink Communities”) have petitioned to the Illinois Department of Natural Resources for a Lake Michigan water allocation, to be distributed through the DuPage Water Commission. The IDNR allocation process is expected to be concluded in mid-late summer, 2023. The municipalities of Oswego and Yorkville desire water service commencing in 2027 (Montgomery in 2032).

29 miles of transmission pipeline will need to be constructed along with ancillary water delivery structures and various customary appurtenances. In order to solicit proposals from qualified firms and to ensure compliance with federal funding and WIFIA procedures, a request for proposals was prepared and posted on March 3, and submittals were received on April 7.

Following individual review by seven panelists, three firms were shortlisted based on a rating/scoring rubric. The three shortlisted firms AECOM, Greeley & Hansen, and LAN/Stanley/Robinson provided presentations on May 18th. Each firm provided a 6-person presentation team, with key personnel listed in their proposal and provided a 40-50 minute presentation followed by a 20-30 minute question and answer period.

Following the presentations, the review panel convened to discuss firm qualifications. All panelists noted that each firm was fully qualified and did not indicate a desire to dismiss any firm based on qualifications. It was noted that each firm presented very different concepts regarding the Fox River crossing, and participants indicated a preference for the concept presented by the LAN team relative to construction approach and consideration of operational resiliency. It was noted that all firms presented thoughtful approaches to hydraulics and routing, with LAN providing the most detailed alternate routes - indicating prospective savings of \$10M. After some discussion, the review panel unanimously concurred that the team of LAN/Stanley/Robinson was the most qualified for the work, and General Manager May contacted the firm to request a scope and fee document from for Phase I

Engineering work. A scope and fee document was received from LAN the following week, with a detailed description of project tasks, schedule, manhours, and cost; indicating a cost for Phase I Engineering in the amount of \$4.27M. It is expected that engineering services (Phase I, Phase II, & Phase III) for a project of this nature would be between 8% - 12%; therefore the proposed price for the Phase I Engineering is at the range that should be expected (total estimated project cost ~\$150 - 170M).

Staff has engaged LAN to refine and clarify the scope, and the recommended task order is attached hereto. DWC has engaged the WaterLink communities in a review of the selected firm, project scope, and cost, and the communities concur with the recommended award of the contract to the preferred vendor, LAN, at the indicated cost. LAN currently has an active Master Services Agreement with the Commission, as do subconsultants Robinson Engineering and Stanley Engineering. This contract will be constructed as Task Order #2 under the existing MSA with LAN, with Robinson and Stanley as subconsultants.

The engineering work will be paid for through a companion IGA which establishes an escrow funded by the WaterLink communities at an initial funding level of \$600K. At the time the IGA was drafted, it was anticipated to serve as a gap-funding mechanism for the period before the approval of the Subsequent Member Agreement. However, due to the timing of the initial engineering/surveying field work during the summer months, much of the engineering cost will be realized prior to the approval of a Subsequent Customer Agreement. Therefore, this contract will include two approvals, the first approval in an amount not to exceed the original escrow funding level of \$600K, and a second action by the Board of Commissioners (likely in July, or direction to the Board Chairman) to authorize the full contract amount - and accompanied by an amended IGA for the same purpose.

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**Recommended Motion:**

It is recommended to approve Resolution R-28-23, authorizing the Engineering Contract in substantially the form attached with LAN Engineering for Phase I Engineering in an initial authorized amount of \$600K.

## DUPAGE WATER COMMISSION

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**RESOLUTION NO. R-28-23**

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A RESOLUTION TO AUTHORIZE TASK ORDER #2 UNDER A MASTER SERVICES AGREEMENT WITH LAN ENGINEERING FOR PHASE I ENGINEERING OF A WATER TRANSMISSION MAIN TO THE COMMUNITIES OF MONTGOMERY, OSWEGO, AND YORKVILLE

WHEREAS, the DuPage Water Commission, (the "Commission") is a county water commission and public corporation under Division 135 of Article 11 of the Illinois Municipal Code, 65 ILCS 5/11-135-1 et seq., and the Water Commission Act of 1985, 70 ILCS 3720/0.01 et seq. (the "Acts") which provides water to various municipal customers;

WHEREAS, the Village of Montgomery ("Montgomery"), the Village of Oswego ("Oswego") and the United City of Yorkville ("Yorkville") (Oswego, Montgomery and Yorkville are collectively referred to herein as the "Municipalities") desire to connect to the Commission's waterworks system to supply Lake Michigan water to their communities;

WHEREAS, the Commission has a Master Contract with Lockwood, Andrews & Newnam, Inc. ("LAN") for general engineering services;

WHEREAS, the Commission desires that LAN begin preliminary engineering work related to determining the route and designing a transmission line to connect the Commission's waterworks system to the Municipalities;

WHEREAS, Task Order Number 2 relates to certain Phase I Engineering work related to route determination and design;

WHEREAS, future Task Orders for additional work related to determining the route and designing the water transmission line will be required;

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

SECTION ONE: The Board of Commissioners of the DuPage Water Commission hereby approves Task Order Number 2 attached hereto as Exhibit A and authorizes the Chairman to execute on behalf of the DuPage Water Commission Task Order Number 2 for route determination and design work, and to take whatever steps necessary to effectuate the terms of said Task Order.

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

	Aye	Nay	Absent	Abstain
Bouckaert, D.				
Cuzzone, N.				
Fennell, J.				
Healy, J.				
Novotny, D.				
Pruyn, J.				
Rush, K.				
Russo, D.				
Saverino, F.				
Suess, P.				
Van Vooren, D.				
Zay, J.				

ADOPTED THIS \_\_\_ DAY OF \_\_\_\_\_, 2023.

\_\_\_\_\_  
James Zay, Chairman

ATTEST:

\_\_\_\_\_  
Danna Mundall, Clerk

EXHIBIT E  
SCOPE OF SERVICES

In accordance with Section 1.1 of the Master Contract for Professional Engineering Services dated May 21, 2013, and Task Order No. 2, Owner and Consultant agree as follows:

- 1.0 Project: Water Transmission Main to the Municipalities of Montgomery, Oswego, and Yorkville, known as the WaterLink Communities and as more fully described in the Request for Qualifications.

Consultant will be contracting directly with primary subconsultants, Stanley Consultants, Inc. (SCI) and Robinson Engineering, Ltd. (REL) under individual subconsultant agreements. Additional subconsultants required for additional services will be contracted directly with SCI and REL.

Phase I Engineering services will consist of assessment and final determination of the water transmission main routing and connection points. Services will include geographical, environmental, cultural, and geological studies as well as evaluation of regulatory and inter-governmental agreement considerations. This phase of service includes establishment of design parameters such as intended design flows, pressures, and velocities, as well as consideration of options for construction, pipe materials, diameters, appurtenances, cathodic protection, and bury depths and soil conditions. Early engagement with property owners, regulatory agencies, and stakeholders, (e.g., WaterLink Communities and local municipalities), departments of transportation, and public and private utility agencies with conflicting infrastructure will be a key component of Phase I. Recommendations will comply with Federal funding requirements.

A Project Development Report (PDR) will be prepared documenting the recommended approach based upon the Phase I activities, as well as an Engineer's Preliminary Opinion of Probable Construction Cost (OPCC). Phase I engineering services will include recommendations on final routing, construction phasing/sequencing, materials of construction, construction bid packaging and consideration of conventional design-bid-build vs. alternative delivery approaches. Consultant services are outlined in Section 2.0 below.

Phase II Engineering will include final preparation of plans, specifications, Engineer's opinions of probable construction cost, and Bid Phase services, including preparation of conformed construction documents. Deliverables will include detailed design drawings, project specifications and contract documents suitable for solicitation of construction bids and for utilization in implementing the project design into a constructed and fully commissioned project. Deliverables will be in accordance with applicable AWWA, IEPA, IDNR, and DOT requirements, including federal and state standards necessary for utilization of federal funds at the time of this Agreement. Phase II Engineering will include final acquisition of all easements, parcels, rights-of-way, and permits from pertinent regulatory agencies necessary based upon the scope of work, however, excludes professional services related to land condemnation proceedings if needed (these would be provided as Additional Services).

**2.0 Consultant Services:****A. Phase I Services:****1. Task 1 – Project Management**

- a. Organize and manage the project team.
- b. Prepare the project schedule for review with the DuPage Water Commission (“DWC”) and maintain the schedule throughout the course of the project.
- c. Prepare and maintain management schedule listing DWC and Consultant’s responsibilities and milestones.
- d. Monitor estimates of probable cost as changes or additions are made throughout the project.
- e. Maintain project records, decision logs, and files.
- f. Maintain and encourage communications between all parties.

**2. Task 2 – Stakeholder Meetings and Data Collection:**

- a. **DWC Project Kick-off and Progress Meetings:** The project kick-off meeting will be used to clarify DWC requirements for the project, overall project schedule, critical project needs and best methods of communication for meetings and updates. Document control and file sharing will be discussed and addressed. Monthly meetings will be held for updates on progress and decision making. Bi-weekly or individual meetings will be scheduled during critical periods of design or as needed. Twenty (20) meetings are planned with DWC for Phase I services. Up to five (5) workshops will be held with DWC for discussion of the following: pipe materials, valves, Fox River crossing, 75<sup>th</sup> Street / Book Road connection, and route selections.
- b. **Coordination with WaterLink Communities:** An initial project engagement meeting followed by monthly check-in meetings will be scheduled with WaterLink Communities and their consultants to discuss the final location of delivery structures and associated connection details and routing of pipelines through their communities. Ten (10) meetings are planned with WaterLink Communities for Phase I services.
- c. **Other Stakeholder Meetings:** Naperville, Aurora, and unincorporated areas (counties and townships) are non-benefiting communities that will potentially be impacted by construction. Initial project engagement followed by monthly check-in meetings will be scheduled to gain input and find solutions to issues and find methods to mitigate impacts. Fifteen (15) meetings are planned with other stakeholders for Phase I services.
- d. **Attend meetings with the DWC’s Board, WaterLink Community Boards (as required), and the public as requested by DWC.** Prepare educational displays/presentations to communicate meeting topics. Fifteen (15) public board meetings are planned for Phase I services.

- e. Prepare monthly project status reports and project updates for DWC to share with Board, WaterLink Communities, and other stakeholders.
  - f. Hold project meetings with regulatory agencies, railroads and private utilities during the study phase to facilitate permit reviews and approvals. Twenty (20) meetings with permitting agencies and entities are planned for Phase I services.
  - g. Requests for pertinent data and information will be transmitted to each of the previously mentioned city, utility, county, townships, and railroad entities located along the pipeline routes.
  - h. Prepare agendas and meeting minutes for each meeting. Follow-up on action items identified during the meetings.
3. Task 3 – Pipeline Corridor Identification:
- a. Previously completed engineering and planning work will be utilized as a starting point for the corridor identification route effort.
  - b. Corridor Identification: Changes to the conceptual route will be evaluated to determine potential improvements to project cost, schedule, parcels, or easements to be acquired, complexity of construction and impact to the community and businesses. It is understood that utilization of existing rights-of-way, utility corridors, or government property is preferred.
  - c. Develop and evaluate up to three (3) potential alternatives. Determine the most favorable route for the water transmission main based on a scoring system incorporating physical attributes, such as topographical and subsurface findings; regulatory attributes, such as permitting complexity, code and standard compliance complexity, and right-of-way ownership and requirements; public impacts, such as traffic impacts, business impacts, political impacts; and other scoring factors as deemed appropriate by the DWC.
  - d. Create a scoring matrix and risk matrix for evaluation of routes on a segment-by-segment basis, with some exceptions if alternative segment routing is not feasible or necessary. Review with DWC and incorporate review comments.
  - e. Research the location of existing utilities within the transmission main corridors and determine their impact on future potential construction. Coordinate activities with utilities.
  - f. Develop preliminary route plan view drawings using GIS data, utility mapping, and data from IDOT, railroads, counties, DWC, utilities, and municipalities supplemented by detailed field topography at up to 15 key intersection/crossing locations.
  - g. Discuss proposed routes with impacted property owners, municipalities, citizen groups, and counties to develop routes with limited resistance. Number of meetings outlined in Task 1.

- h. Compile the matrix scores for each segment and assess the resulting scoring to eliminate route segments and/or options from further consideration and analysis. Review findings with DWC, incorporate input, and develop two recommended distinct routes for further analysis.
  - i. Prepared conceptual layout of pump station(s) to determine necessary property area and potential location of property acquisition.
  - j. Conduct initial constructability reviews of two routes. Review routes with land acquisition lead for identification of easements and potential sites for booster stations.
  - k. Identify methods of construction for installation of pipe in each segment.
  - l. Prepare Preliminary OPCC for each route.
  - m. Compile matrix scoring results, constructability, cost opinion information, and land availability information. Recommend one distinct route for final consideration.
  - n. Review findings with DWC and gather input and identify the most favorable route.
4. Task 4 – Hydraulic Modeling:
- a. Hydraulic modeling will be performed towards the end of the study to evaluate and finalize pipeline sizing and velocities based on expected water demands, routes, expected pipeline elevations, and delivery pressures.
  - b. DWC will provide existing hydraulic model input data to Consultant and will assist in information transfer.
  - c. Reconfirm existing data points in the model such as elevations and pressures and add/modify determined elevations, fittings, valves, segment lengths, discharge locations, and flow rates along the route that may impact system operations.
  - d. Transfer model into Innovyze InfoWater based on Consultant's preference and test the transmission system hydraulics.
  - e. Use the model to confirm need for a current or future pump station and, if there is, optimize location for the station.
  - f. Complete hydraulic modeling with use of Innovyze InfoSurge to confirm that the system will be protected from transients.
  - g. Summarize findings in the Project Development Report.

5. Task 5 – Survey Services:
- a. The intent of this work is to augment available paper records, GIS, and photographic information with on the ground field measurements of physical features for the purpose of confirming information for the project improvements. Due to the desired project design time frame, and challenges associated with collecting aerial LiDAR data during the summer months, Phase I route alignment studies will utilize primarily GIS aerial and contour data supplemented by certain specific ground survey data collection at key locations that could impact constructability, permitting and cost.
  - b. Set necessary ground control points utilizing GNSS/GPS and terrestrial surveying techniques correlated to commonly accepted vertical (NAVD '88) and horizontal datums (Illinois State Plane NAD '83 (2011)) based upon geographic coordinates (latitudes, longitudes, and heights) throughout 40 township sections in Naperville, Oswego, Yorkville, Montgomery, and unincorporated areas along the water transmission main route to ensure that all data collected can be correlated to and utilized with other data sources based upon geographic coordinates. Other correlations could also be made to specific local datums as determined by Consultant. This control effort will form the basis for aerial LiDAR control to be conducted toward the end of Phase I, as well as for the preparation of 90-130 plats and legal descriptions for required easements to be performed during Phase II.
  - c. Conduct up to 12 topographical surveys at critical intersections and tunnel crossings, including collection of rim/invert data at utility structures, to allow for the development of a route and preliminary design of the project improvements with a high level of confidence to supplement county GIS Data. Conduct less detailed surveys on selected portions of two routes as determined by Consultant to complete preliminary designs. The information generated from this work will be incorporated into the base sheets after a final route determination is made and used during final Phase II design.
  - d. Provide 75-100 SUE services field surveys to verify other utility (gas pipelines, oil pipelines, fiber optic lines, telecommunication lines, etc.) elevations, together with design JULIE locates at key crossings would be performed. This effort would supplement field elevation data to be measured and collected and combined into the project base CAD files.
  - e. Provide 75-100 utility potholing and associated grass and pavement restoration. Potholes and/or vacuum excavations at key utility crossing locations to be performed by a local contractor. Relevant utility conflicts will be identified and assessed early on during the design effort. This effort also includes obtaining elevation data for excavated utilities and adding them to 3D utility model.

- f. Complete topographic survey data collection along the final 29-mile route would be envisioned to take place in late 2023 to form the basis for the Phase II final design effort. The primary means of data collection may be utilizing an aerial platform to collect LiDAR data, depending on the timing of the alignment finalization and data collection costs.
  - g. Detailed LiDAR data will be processed for developing surface condition topographic drawings throughout the project area. Supplemental field surveys to complete areas not attainable with the LiDAR data collection would also obtain invert/top of main data of storm/sanitary sewers and existing water mains within the project area.
  - h. Combine data, including GIS contour data from DuPage, Kendall, and Will Counties, supplemental topographic, rim/invert, SUE/potholing and utility data from various sources, GNSS/GPS and terrestrial, within Autodesk Civil 3D base CAD files and construct an appropriate triangulated irregular network (TIN) model across the entire project length to be able to generate proposed 1"=50' plan and profile sheets on a consistent and unified vertical and horizontal datum. TIN model will also allow for 3-D utility modeling at specific locations to verify proposed water main elevations. Identification of property corner details for purposes of right-of-way verification and/or future easement acquisition will be completed as determined by Consultant. The estimated length of plan/profile sheets across two final route alignments is 35 miles (200 total sheets).
6. Task 6 – Geotechnical Borings and Logs
- a. Provide up to 42 soil borings on both sides of up to 21 tunnel crossings (e.g., crossings of IDOT highways, Fox River, etc.), including field staking of all boring locations and correlating elevation data at boring locations with Survey data in Task 5.
  - b. Conduct a preliminary Clean Construction/Demolition Debris (CCDD) sampling and testing evaluation during the advancement of the geotechnical soil borings (one per tunnel crossing) to identify potentially clean and potentially contaminated areas along the proposed water main project area. Collect soil samples during the boring operation for testing.
  - c. Collected soil samples will be submitted to an accredited laboratory with a standard turnaround time for analytical testing results. The testing parameters in the identified PIP project areas will include VOCs, SVOCs, RCRA 8 Total Metals, pH and possibly TCLP or SPLP testing on 7 of the 8 RCRA metals, as determined necessary by Consultant.
  - d. Prepare a geotechnical report including all boring logs outlining the findings of the sample program, signed and sealed by an Illinois registered professional engineer.

7. Task 7 – Phase I Environmental Site Assessment (ESA)
  - a. Provide a Phase I ESA along the 29-mile route in accordance with the American Society for Testing and Materials (ASTM) Practice E1527-21. The purpose of the Phase I ESA is to identify the presence or absence of Recognized Environmental Conditions (RECs) as defined by the standard.
  - b. The Phase I ESA process includes a search of standard historical sources (e.g., aerial photographs, topographic maps, and historical fire insurance maps), a review of federal and state environmental databases, interviews with past and present owners, operators, and occupants of the site, and an on-site reconnaissance to determine the presence or absence of RECs.
  - c. Visit the sites to examine and document the current uses and conditions. Seek owners to ask pertinent questions, including those outlined as user responsibilities on the questionnaire in ASTM E1527-21.
  - d. Make reasonable attempt to conduct interviews with the current owner, available past owners, and occupants, state and local regulators, the local fire department, and other persons or agencies that may have knowledge of current or historical environmental conditions at the site.
8. Task 8 – Wetlands
  - a. Impacted areas will be evaluated for the presence of wetlands and other Waters of the United States (WOTUS). This information will be used to avoid and/or minimize impacts to WOTUS and other areas of special concern. To minimize the amount of fieldwork necessary, a desktop review of each area will be performed prior to the site visit. This will involve gathering background information pertaining to each site such as local soil survey data, previously performed wetland delineations (if available), and National Wetland Inventory (NWI) maps.
  - b. Delineation of the Site will be done in accordance with USACE 1987 Manual and the August 2010 USACE Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region and will take place within the USACE recognized wetland growing season. The wetland delineation will be based on soil composition, hydrology of the site, and vegetation present at the time of the site visit. Observations will be documented on approved USACE data forms and included in the final report. If wetlands are found to exist within project boundaries, their limits will be recorded using a handheld GPS device for use in Arc GIS software and added to the plan and profile sheets as applicable. It is assumed that Consultant personnel will be granted access to the properties, and that project personnel will be available to answer questions prior to, during, and/or following site reconnaissance activities.
9. Task 9 – WIFIA Federal Requirements Compliance
  - a. Determine potential environmental impacts from various environmental crosscutting authorities as required by WIFIA (i.e., Archaeological and Historic Preservation Act, Fish and Wildlife Act, Endangered Species Act, etc.).

- b. Work with the WaterLink Communities and WIFIA staff to complete the WIFIA Programmatic Environmental Assessment (PEA) Questionnaire which analyzes the potential environmental impacts related to the issuance of credit assistance under WIFIA.
  - c. Provide cultural and archaeological surveys after selection of the route. This scope includes: Preparation of Section 106 initiation letters and subsequent letters documenting Area of Potential Effects (APE), Historic Properties Identification (HPI), and Assessment of Effects (AOE), as-needed; APE delineation; Research and literature review to identify previously recorded historic architectural properties or archaeological sites; Fieldwork/Survey to collect documentation related to historical architectural properties, resources or targeted archaeological sites; Technical report describing the project, field work and results; Contribution to the WIFIA PEA.
  - d. Work with WaterLink Communities and WIFIA staff to confirm program waiver for Build America, Buy America Act.
  - e. Conform with American Iron and Steel Requirements in the design consideration and evaluation of proposed pipe, valves, and appurtenances.
  - f. Work with WaterLink Communities to understand potential co-funding with other federal and state programs to determine any additional responsibilities or considerations for compliance.
10. **Task 10 – Recommended Plan Development:**
- a. Prepare preliminary designs for the most advantageous route. Consider use and applicability of conventional and trenchless means of construction for each pipeline segment.
  - b. Conduct constructability reviews, confirm property availability, and prepare opinions of probable construction cost.
  - c. Confirm design with hydraulic computer model.
  - d. Manage the identification, documentation, and assembly of up to 130 required easements in conjunction with DWC staff. Due to schedule impacts on final design/construction timeframe, this would include ordering up to 130 identified title commitments after route alignment finalization as a task to be completed late during Phase 1.
  - e. Review with DWC and incorporate input for recommend final routes for joint transmission mains for development of preliminary plans. After approval of final route from DWC, prepare approximately 200 final preliminary plan and profile sheets for the selected route. Drawings will be digital and planned for printing on 22" x 34" sheets at 1" = 50' scale.
11. **Task 11 – Project Development Report:**

- a. Prepare Pipeline Alignment Corridor Study summarizing the process used to develop the most advantageous route and the conclusions of the study documenting features of the selected route including installation techniques and the opinion of probable construction cost for the transmission main. The study will include contract bid packaging options intended to identify opportunities to expedite the construction schedule.
  - b. Pipeline Design Criteria Memorandum: Develop pipeline design criteria in collaboration with DWC. Memorandum will include the following elements: design parameters; pipeline sizes, appurtenances, and materials; preliminary hydraulic profile; valve types and locations; preliminary cathodic protection evaluation, and redundancy.
  - c. Additional items included: Construction bid packaging and project segmentation; cost and financial issues; project implementation schedule; level of control desired by DWC during project delivery for the design, construction and commissioning; alternative project delivery; potential compliance criteria; potential schedule constraints; potential project risk concerns; permit matrix; external stakeholder requirements; Phase I level design development; constructability review and hydraulic model documentation for final recommended alternate.
  - d. Supervise, conduct, and document quality control activities during the development of the PDR.
  - e. Provide draft copies of the report for review by the DWC and WaterLink Communities' staff.
  - f. Meet with DWC and WaterLink Communities staff to review and incorporate their comments into the final documents.
  - g. Provide electronic copy and twenty (20) hard copies of final Project Development Report.
  - h. Provide up to three (3) presentations on the final report.
12. Task 12 – Projected Spending Report:
- a. It is understood that the DWC and the WaterLink Communities have entered into an “Escrow” agreement for payment of services associated with the project. It is also understood the WaterLink Communities will have to, from time to time, make payments into the “Escrow” account to replenish funds and will need time to accomplish this effort.
  - b. Generate a cash flow/invoicing forecast estimating future Consultant expenditures for coordination of payments between WaterLink Communities and DWC. Document will forecast next 30 and 60 days of expenditures and will be submitted to DWC along with invoices on monthly basis.
  - c. Maximum accrued services under this Task Order shall not exceed \$600,000, without authorization from the Board of Commissioners.
  - d. Remaining services are not authorized until approved by DWC.

- B. Phase II Services:
1. Task 1 – Project Management:
    - a. Organize and manage the project team.
    - b. Prepare the project schedule for review with DWC and maintain the schedule throughout the course of the project.
    - c. Prepare and maintain management schedule listing DWC responsibilities and milestones.
    - d. Monitor estimates of probable cost as changes or additions are made throughout the project.
    - e. Maintain project records, decision logs, and files.
    - f. Maintain and encourage communications between all parties.
  2. Task 2 – Stakeholder Meetings:
    - a. Continue stakeholder meetings noted under Phase I services.
    - b. Attend public meetings as required during the work. Prepare educational displays/presentations as needed to communicate meeting topics. Up to fifteen (15) meetings are planned for Phase II services.
    - c. Prepare agendas and meeting minutes for each meeting.
  3. Task 3 – Easement Acquisition:
    - a. Manage the solicitation, documentation, and ultimate purchase/assembly of the identified easements from Phase I in conjunction with DWC Staff.
    - b. Assist DWC to acquire properties and easements with services preparation of plats and legal descriptions, asbestos abatement inspections, and professional acquisition services including appraisals and negotiations as may be applicable.
  4. Task 4 – Quality Control:
    - a. Prepare plans and implement quality assurance and control activities during the development of the system designs.
  5. Task 5 – Vulnerability Analysis:
    - a. Vulnerability Analysis: Prepare Vulnerability Analysis in conformance with AWWA Standards and Manual of Practice.
    - b. Include transmission mains and major crossings (Under the Fox River, IDOT roadways, under railroads, petroleum pipelines, etc.) and connection facilities. Review findings with DWC and modify report as appropriate. Incorporate findings in pipeline design as directed by DWC.

6. Task 6 – Standardized Specifications:
  - a. Bidding and front end contract documents will be provided by DWC. Prepare special conditions and technical specifications in CSI format for use by design teams for each pipeline segment. Generate contract document and specification packages for project bidding.
7. Task 7 – Transmission Main Package:
  - a. The intent of this work is to prepare plan and profile drawings and technical specifications for the transmission mains. The transmission mains will be designed for the different design packages determined in Phase I Engineering Services.
  - b. Attend design coordination meetings with the DWC team for the duration of the Project. Up to twenty-four (24) meetings are planned.
  - c. Attend weekly transmission main design teams meeting for the duration of plan and profile development.
  - d. Attend stakeholder meetings as requested including municipalities, utilities, and state agencies. Up to fifteen (15) meetings are planned.
8. Task 8 – 30% Preliminary Plan and Profile Drawings:
  - a. Address comments from Project Development Report as provided by DWC. Prepare preliminary drawing set, which will convey information about the transmission main's fundamental elements. This work includes the following.
  - b. Prepare preliminary cover, index standards list, and notes sheets.
  - c. Conceptual detail drawings will be provided and discussed.
  - d. Prepare preliminary transmission main plan drawings showing the alignment of the transmission mains and distribution feeder mains, including known existing underground utilities.
  - e. Prepare preliminary roadway resurfacing plan.
  - f. Provide preliminary specifications index.
  - g. Submit above as 30% design submittal to: Project Review Team for QC and DWC for review.
  - h. Geotechnical borings and logs up to 30 feet deep spaced approximately 500 to 1,000 feet apart along pipeline route to supplement tunnel crossing boring information collected in Phase I.
  - i. Compile an inventory of the trees that will be removed or pruned due to construction, as well as roadway signs that could be impacted by construction.

- j. Prepare draft of plan and profile drawings for critical crossings determined by Consultant. Draft plan and profile drawings will show the work in sufficient detail that a contractor can recognize general transmission main elements and requirements for construction. Include any revisions required by the alignment field verification. Draft plan and profile drawings for critical crossings will be completed first to expedite the permitting process.
  - k. Meet with DWC and WaterLink Communities to review drawings. Address and incorporate comments into final 30% set and submit to DWC.
9. **Task 9 – 75% Permit Plan and Profile Drawings and Specifications:**
- a. Prepare a draft drawing set, which will show the work in sufficient detail so that a contractor can recognize transmission mains elements and requirements for construction. Include any revisions required by the alignment field verification. Set to include: draft cover, index, standards lists, and notes sheets; erosion control plan into plan set; demolition plan; draft transmission mains plan and profile drawings showing the alignment of the transmission mains and distribution feeder mains including existing underground utilities; detailed drawings; landscaping replacement plans; traffic detour plans; draft roadway resurfacing plans; draft transmission mains specifications, including general requirements and technical specifications.
  - b. Prepare preliminary detail drawings.
  - c. As the design progresses, develop and refine the strategy and plan for construction contract sequencing, improvements scheduling and operations during construction to improve project delivery and reliability and improve funding opportunities.
  - d. Submit the 75% draft drawings and specifications to: Project Review Team for QC, DWC for review; and impacted communities for comment.
  - e. Submit 75% documents to the IEPA and other permitting entities for review and comment. Meet with IEPA and other entities to receive comments. Incorporate comments into 90% documents for permitting.
  - f. Meet with DWC and WaterLink Communities to review drawings. Address and incorporate comments into final 75% set and submit to DWC.
10. **Task 10 – 90% Permit Plan and Profile Drawings and Specifications:**
- a. Prepare prefinal cover, index, standards lists, and notes sheets; erosion control plan into plan set; demolition plan; final draft transmission mains plan and profile drawings showing the alignment of the transmission mains and distribution feeder mains including existing underground utilities; detailed drawings; erosion control; landscaping replacement plans; traffic control and detour plans; draft roadway resurfacing plans; final draft transmission mains specifications, including general requirements and technical specifications.

- b. Submit the 90% draft drawings and specifications to: Project Review Team for QC, DWC for review; permitting entities as required, and adjacent utilities to review.
  - c. Submit sealed documents to IEPA and other entities for permitting.
  - d. Address and incorporate comments from the 90% submittal as provided by Project Review Team, DWC and impacted communities.
  - e. Field-Walk Thru with DWC and/or WaterLink Communities.
11. Task 11 – 100% Permit Plan and Profile Drawings and Specifications:
- a. Prepare, sign, and seal final drawing set and final specifications.
  - b. Incorporate front end bidding documents in specifications.
  - c. Submit the 100% complete drawings and specifications to DWC.
  - d. Plans will be submitted in AutoCAD and PDF formats along with two (2) printed copies.
  - e. Specifications will be provided in Microsoft Word and PDF formats. Specification PDFs will be indexed and searchable.
12. Task 12 – Allocation of Benefits Calculations Assistance:
- a. Assist DWC with defining allocation of transmission system capital and maintenance costs between communities based on the respective system benefits. Detailed level of effort to be determined. Up to 120 labor hours are included in our proposed fee.
13. Task 13 – Bidding Assistance and Contractor Selection:
- a. Provide bid assistance, including contractor identification, solicitation, qualification, bid review, responses to RFI information, attendance to pre-bid meetings and bid opening meetings, review and evaluation of bid proposals, and attendance and presentation at DWC Board meetings, as well as WaterLink community public meeting, if requested. Additional services and details included.
  - b. Attend and assist in leading pre-bid meeting. Prepare agenda and meeting minutes.
  - c. Addenda Preparation Assistance: Assist with responses to bidders' questions during the bid period. Assist in preparation of necessary addenda.
  - d. Bid Review Assistance: Assist in evaluation of bids and make recommendation of award of contract at Board meeting.
  - e. Conformed Contract Documents: Prepare conformed construction documents that incorporate modifications to the drawings and specifications included in Addenda issued during the Bidding Phase.

- 3.0 Approvals and Authorizations: Consultant shall assist in obtaining the following approvals and authorizations:
- A. IEPA Permit Coordination: Prepare the required documentation for signature by DWC and meet with the Agency to assist the procurement of Project permits.
  - B. IDOT and other highway authorities – Naperville, Kendall County, Will County, DuPage County, and various Townships
  - C. USACOE – wetlands and Fox River
  - D. IDNR – Fox River, other stream crossings > 1 sq.mi. watershed
  - E. Railroads – CNRR, ILRW and BNSF

4.0 Commencement Date: Effective Date of This Task Order

5.0 Completion Date: Per following Schedule

6.0 Schedule:

- A. Phase I Services:
  - Begin – Effective Date of this Task Order
  - Submit Draft of PDR – 10/31/2023
  - Complete Phase I – 01/01/2024
- B. Phase II Services:
  - Begin – 01/01/2024
  - Submit Final Plans and Specifications – 11/01/2024
  - Bidding and Contractor NTP – 02/28/2025

7.0 Key Project Personnel:

<b>Lockwood, Andrews &amp; Newnam, Inc.</b>	<b>Stanley Consultants, Inc. (Subconsultant)</b>	<b>Robinson Engineering, Ltd. (Subconsultant)</b>
<ul style="list-style-type: none"> <li>● Warren Green, PE Project Director</li> <li>● Ozzie Garza, PE Project Manager</li> <li>● Jeremy Nakashima, PE Quality Control</li> <li>● Greg Henry, PE Tunnel Engineering</li> <li>● Christine Kirby, PE Coatings &amp; Linings</li> <li>● Bob Card, PE Pipe Design</li> </ul>	<ul style="list-style-type: none"> <li>● Kate Despinoy, PE Project Manager</li> <li>● Larry Thomas, PE Quality Control</li> <li>● Michael Colby, PE Hydraulic Modeling</li> <li>● Patrick Haney, PE Pipeline Engineering</li> <li>● Jared Hamilton, PE Constructability Review</li> </ul>	<ul style="list-style-type: none"> <li>● Aaron Fundich, PE Project Manager</li> <li>● Jennifer Prinz, PE Quality Control</li> <li>● Dave Barnas, PE Constructability Review</li> <li>● Tom Nagle, PE Pipeline Engineering</li> <li>● Randall Gann, PLS Surveying</li> </ul>

## 8.0 Contract Price:

Our contract price for providing, performing, and completing the initial Phase I services is equal to an amount including labor costs plus an amount equal to the actual costs of all Reimbursable Expenses. We estimate that our fees (including reimbursable expenses) will be Six Hundred Thousand Dollars ( \$600,000.00 ) which will not be exceeded without written authorization approved by the DWC Board of Commissioners.

The full contract price of \$4,263,649.00 for Phase I services is subject to authorization by the DWC Board of Commissioners.

See Attached Tables for Breakdown

## 9.0 Payments:

The fees for these services shall be based on the direct Labor Costs times the number of hours worked by the Consultant's personnel performing services on the Project.

"Reimbursable" or "reimbursable expense" shall be defined as a cost incurred by the Consultant in performing services on the Project, beyond the standard labor and overhead costs otherwise outlined in the Master Agreement and shall be applicable individually to any Work Order, Authorization or Notice-to-Proceed issued under such Master Agreement. Reimbursables include costs incurred in relation to:

- A. Transportation and authorized out-of-town travel and subsistence.
- B. Fees paid for assisting in obtaining the approval of authorities having jurisdiction over the Project.
- C. Printing, reproductions, plots, standard form documents.
- D. Postage, handling, and delivery.
- E. Expense of overtime work requiring higher than regular rates, if authorized in advance.
- F. Renderings, models, mock-ups, professional photography, and presentation materials requested.
- G. Other similar Project-related expenses.

The list above is not intended to be exhaustive. Other Project-related costs incurred by Consultant that do not appear on the list above, are nonetheless considered to be reimbursable expenses. Costs incurred by Consultant shall also be read to mean costs incurred by Consultant's subsidiaries, employees, contractors, and consultants.

## 10.0 Modifications to Contract:

- A. None

## 11.0 Attachments:

- A. 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 June 16, 2023.

DuPAGE WATER COMMISSION

By: \_\_\_\_\_

James F. Zay  
Chairman of the Board

By: \_\_\_\_\_

Paul D. May, P.E.  
General Manager

DESIGNATED REPRESENTATIVE FOR TASK ORDER:

Name: Paul D. May, P.E.

Title: General Manager

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

E-mail Address: [may@dpwc.org](mailto:may@dpwc.org)

Phone: (630) 834-0100

Fax: (630) 834-0120

Lockwood, Andrews & Newnam, Inc.

By: \_\_\_\_\_

J. Warren Green, P.E.

Vice President/Chief Engineer

DESIGNATED REPRESENTATIVE FOR TASK ORDER:

Name: J. Warren Green, P.E.

Title: Vice President, Chief Engineer

Address: 1 Oakbrook Terrace, Suite 300, Oakbrook Terrace, IL 60181

E-mail Address: [jwgreen@lan-inc.com](mailto:jwgreen@lan-inc.com)

Phone: 630-918-2494



**Exhibit A**  
**Level of Effort - Phase I Services**  
**DuPage Water Commission**  
**Water Transmission Main to the Municipalities of Montgomery, Oswego, and Yorkville**

		PRINCIPAL / PROJECT DIRECTOR	SENIOR PM	PM	SENIOR ENGINEER/ SME	ENGINEER VII	ENGINEER VI	ENGINEER V	ENGINEER IV	ENGINEER III	ENGINEER II	ENGINEER I	SENIOR DESIGNER	CADD DESIGNER	GIS COORDINATOR	GIS DEVELOPER	FIELD SUPERINTENDENT	CHIEF LAND SURVEYOR	LAND SURVEYOR	PROJECT CONTROLS ADMINISTRATOR	ADMIN. ASSISTANT	TOTAL HOURS	TOTAL FEE
	BILLING RATE RANGE	\$400 to \$350	\$335 to \$285	\$250 to \$193	\$380 to \$300	\$309 to \$275	\$255 to \$225	\$238 to \$170	\$191 to \$163	\$152 to \$150	\$142 to \$140	\$133 to \$120	\$200 to \$192	\$140 to \$120	\$192	\$145 to \$167	\$216	\$206	\$154	\$179	\$118 to \$110		
NO.	TASK DESCRIPTION																						
2.0	Stakeholder Meetings and Data Collection	238	40	516	112	0	0	120	0	176	0	0	0	0	0	0	0	16	0	0	104	1322	\$311,832
3.0	Pipeline Corridor Identification	140	540	764	234	0	60	528	0	1278	0	160	28	80	8	32	40	0	0	0	24	3916	\$818,830
4.0	Hydraulic Modeling	16	0	12	32	0	0	160	24	0	0	0	0	0	0	0	0	0	0	0	0	244	\$53,264
5.0	Survey Services (Add Services)	Additional Services																					
6.0	Geotechnical Borings and Logs (Add Services)																						
7.0	Phase I Environmental Site Assessment (ESA) (Add Services)																						
8.0	Wetlands Delineation (Add Services)																						
9.0	WIFIA Federal Requirement Compliance	0	0	36	12	0	0	40	0	72	0	60	0	0	0	0	0	0	0	0	24	244	\$41,660
10.0	Recommended Plan Development	100	144	608	216	0	28	376	60	784	0	20	220	1380	0	0	0	40	120	0	0	4096	\$749,036
11.0	Project Development Report	40	48	320	98	0	0	244	0	460	80	100	100	0	0	0	0	0	0	0	40	1530	\$304,072
<b>TOTAL HOURS</b>		<b>534</b>	<b>772</b>	<b>2256</b>	<b>704</b>	<b>0</b>	<b>88</b>	<b>1468</b>	<b>84</b>	<b>2770</b>	<b>80</b>	<b>340</b>	<b>348</b>	<b>1460</b>	<b>8</b>	<b>32</b>	<b>40</b>	<b>56</b>	<b>120</b>	<b>0</b>	<b>192</b>	<b>11352</b>	
<b>TOTAL FEES</b>		<b>\$169,080.00</b>	<b>\$206,160.00</b>	<b>\$551,684.00</b>	<b>\$240,910.00</b>	<b>\$0.00</b>	<b>\$19,800.00</b>	<b>\$274,056.00</b>	<b>\$14,184.00</b>	<b>\$417,276.00</b>	<b>\$11,200.00</b>	<b>\$40,800.00</b>	<b>\$68,704.00</b>	<b>\$197,640.00</b>	<b>\$1,536.00</b>	<b>\$5,344.00</b>	<b>\$8,640.00</b>	<b>\$11,536.00</b>	<b>\$18,480.00</b>	<b>\$0.00</b>	<b>\$21,664.00</b>		<b>\$2,278,694</b>
<b>TOTAL</b>																							<b>\$2,278,694</b>

Additional Services	Subtotal
Phase 1 ESA	\$36,770
Wetlands Delineation	\$39,520
Cultural/Archeology	\$87,545
Cathodic Protection Desktop Study	\$34,820
GIS / Survey Control / SUE / Utilities / LIDAR	\$1,383,000
Geotechnical Borings and Logs	\$238,300
Title Commitments - Easements/Parcels	\$130,000
<b>TOTAL</b>	<b>\$1,949,955</b>

Basic Services Expenses	Subtotal
Expense Allowance	\$35,000
<b>TOTAL</b>	<b>\$35,000</b>

<b>TOTAL PHASE I SERVICES</b>	<b>\$4,263,649</b>
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**Exhibit B**  
**Level of Effort - Phase I Additional Services**  
**DuPage Water Commission**  
**Water Transmission Main to the Municipalities of Montgomery, Oswego, and Yorkville**

Task	Description	Unit	Quantity	Estimated Manhours*	Rate (\$/Unit)	Subtotal
<b>5</b>	<b>Task 5 - GIS / Survey Control / SUE / Utilities / LIDAR</b>					<b>\$ 1,383,000.00</b>
5A-H	GIS / Survey / SUE Utilities / Plan-Profile Sheets / 3D TIN Surface Model	Foot	180,000	2,560	\$ 2.11	\$ 378,900.00
5B	Survey Monumentation / LIDAR Control / Cadastral Line Development	Section	40	1588	\$ 5,590.00	\$ 223,600.00
5C	Detailed Site Topo / Processing / Drafting w Utilities at 15 Key Intersections	Each	15	900	\$ 16,700.00	\$ 250,500.00
5E	Utility Potholing w/ Traffic Control & Restoration	Each	100	144	\$ 4,150.00	\$ 415,000.00
5F-G	Aerial LIDAR Along Entire Route x 2000' width, Data Processing	L Sum	1	64	\$ 115,000.00	\$ 115,000.00
<b>6</b>	<b>Task 6 - Geotechnical Bores and Logs</b>					<b>\$ 238,300.00</b>
6A-D	Field Staking, Soil Borings/Logs, Lab Analysis & Geotech Report	Each	42	380	\$ 3,650.00	\$ 153,300.00
6B-C	CCDD Sampling, Laboratory Analysis & Report	Each	20	440	\$ 4,250.00	\$ 85,000.00
<b>10</b>	<b>Task 10 - Recommended Plan Development</b>					<b>\$ 130,000.00</b>
10D	Title Commitments - Easements / Parcels	Each	130	200	\$ 1,000.00	\$ 130,000.00

\*Estimated manhours for Robinson Engr. Exclude manhours from various subconsultants, laboratories for equipment, traffic control, etc.

**Exhibit B**  
**Level of Effort - Phase I Additional Services**  
**DuPage Water Commission**  
**Water Transmission Main to the Municipalities of Montgomery, Oswego, and Yorkville**

		PRINCIPAL / PROJECT DIRECTOR	SENIOR PM	PM	SENIOR ENGINEER/ SME	ENGINEER VII	ENGINEER VI	ENGINEER V	ENGINEER IV	ENGINEER III	ENGINEER II	ENGINEER I	SENIOR DESIGNER	CADD DESIGNER	TOTAL HOURS	TOTAL FEE
	BILLING RATE RANGE	\$400 to \$350	\$335 to \$285	\$250 to \$193	\$380 to \$300	\$309 to \$275	\$255 to \$225	\$238 to \$170	\$191 to \$163	\$152 to \$150	\$142 to \$140	\$133 to \$120	\$200 to \$192	\$140 to \$120		
NO.	TASK DESCRIPTION															
	Cathodic Protection Desktop Study (LAN)	8		30	24					100					162	\$34,820
	<b>TOTAL HOURS</b>	8	0	30	24	0	0	0	0	100	0	0	0	0	162	
	<b>TOTAL FEES</b>	\$3,200.00	\$0.00	\$7,500.00	\$9,120.00	\$0.00	\$0.00	\$0.00	\$0.00	\$15,000.00	\$0.00	\$0.00	\$0.00	\$0.00		\$34,820

		PM	PRINCIPAL SCIENTIST	SENIOR SCIENTIST	SCIENTIST	JUNIOR SCIENTIST	JUNIOR SCIENTIST	ENVIRONMENTAL SCIENTIST	GIS DEVELOPER	PRINCIPAL ARCHITECT	SENIOR ARCHITECT	JUNIOR ARCHITECT	INTERN	ARCHEOLOGIST	TOTAL HOURS	TOTAL FEE
	BILLING RATE RANGE	\$250 to \$193	\$233	\$120	\$107	\$82	\$225	\$170	\$145 to \$167	\$183	\$130	\$89	\$62	\$160		
NO.	TASK DESCRIPTION															
<b>7.0</b>	<b>Phase I Environmental Site Assessment (ESA) (SCI)</b>	0	12	194	36	6	0	0	0	0	0	0	0	0	248	\$36,770
	Preparation and Site Visit			36	36										72	\$8,172
	Property Owner Interviews			40											40	\$4,800
	Graphics			16											16	\$1,920
	Draft and Final Reports		12	72		6									90	\$11,928
	PEA Questionnaire			30											30	\$3,600
	Expenses														0	\$6,350
<b>8.0</b>	<b>Wetlands Delineation (SCI)</b>	0	0	192	0	0	0	32	32	0	0	0	0	0	256	\$39,520
	Preparation and Research			24				8							32	\$4,240
	Onsite Delineation			80				4							84	\$10,280
	Graphics								32						32	\$4,640
	Draft and Final Reports			62				16							78	\$10,160
	PEA Questionnaire			26				4							30	\$3,800
	Expenses														0	\$6,400
<b>9.0</b>	<b>Cultural/Archeology (SCI)</b>	0	0	0	0	0	0	0	0	50	220	164	0	204	638	\$87,545
	Cultural Survey									8	28	28			64	\$7,596
	Cultural Reports									24	108	116			248	\$28,756
	Cultural Coordination									18	60	20			98	\$12,874
	Archeology Survey													120	120	\$19,200
	Archeology Reports													60	60	\$9,600
	PEA Questionnaire										24			24	48	\$6,960
	Expenses														0	\$2,559
	<b>TOTAL HOURS</b>	0	12	360	36	6	0	28	32	50	196	164	0	180	1064	
	<b>TOTAL FEES</b>	\$0.00	\$2,796.00	\$43,200.00	\$3,852.00	\$492.00	\$0.00	\$4,760.00	\$4,640.00	\$9,150.00	\$25,480.00	\$14,596.00	\$0.00	\$28,800.00		\$163,835

**Exhibit C**  
**Preliminary Cash Flow/Invoicing Forecast - Phase I Services**  
**DuPage Water Commission**  
**Water Transmission Main to the Municipalities of Montgomery, Oswego, and Yorkville**

Description	July 2023	August 2023	September 2023	October 2023	November 2023	December 2023	January 2024	February 2024
<b>Basic Services</b>	\$ 91,148	\$ 182,296	\$ 501,313	\$ 569,674	\$ 569,674	\$ 227,869	\$ 91,148	\$ 45,574
<b>Additional Services</b>	\$ 65,000	\$ 360,000	\$ 666,459	\$ 431,669	\$ 140,869	\$ 155,959	\$ 130,000	\$ -
<b>TOTAL</b>	<b>\$ 156,148</b>	<b>\$ 542,296</b>	<b>\$ 1,167,771</b>	<b>\$ 1,001,342</b>	<b>\$ 710,542</b>	<b>\$ 383,828</b>	<b>\$ 221,148</b>	<b>\$ 45,574</b>

Exhibit D

Project Team Organization — Phase I Services  
DuPage Water Commission

Water Transmission Main to the Municipalities of Montgomery, Oswego, and Yorkville



- 1. GEOCON Professional Services, LLC.  (Geotechnical Engineering)
- 2. SAM, LLC.  (Aerial LiDAR)
- 3. Accurate Locating Services, Inc.  (Subsurface Utility Engineering)
- 4. Sheridan Plumbing & Sewer, Inc.  (Subsurface Utility Engineering - Potholing)
- 5. Chicago Title Land Trust Company  (Title Commitments)

- 1. JLK Architects  (Cultural/Archeological)



**Resolution #:** R-30-23

**Account:** 01-60-663100, \$299,803.19

**Approvals:** *Author / Manager / Finance / Admin*

**D.P. RCB CAP PDM**

## REQUEST FOR BOARD ACTION

**Date:** 6/8/2023

**Description:** **A Resolution to Approve Certain Revised Work Authorization Orders Under Quick Response Contract QR-12/21.**

**Agenda Section:** Engineering & Construction

**Originating Department:** Pipeline

On November 17, 2022, the Commission approved the Resolution R-70-22 authorizing the issuance of Work Authorization Order No. 016 to quick response contractor, Benchmark Construction, Inc., to proceed with the work described as the DuPage Pumping Station Site Improvements at a cost estimated at \$456,085.14. The work included the excavation to expose the exterior of the West Discharge Tunnel, perform exterior waterproofing of the wall penetrating West Discharge Tunnel and the redirection of ground water away from the West Discharge Tunnel into the existing stormwater system by adding underdrains.

### REVISIONS to Work Authorization Order No. 016

During the excavation authorized under Work Authorization Order No. 016 around the 72-inch steel water main, and as presented to the Board on March 16, 2023, significant corrosion was found on the exterior pipe wall. The original scope of work was extended, and the work began prior to board ratification, as remediation to protect the 72-inch steel water main from potential catastrophic failure. The additional tasks included modification of Earth Retaining System, uncovering additional length of the pipe outside the original trench limits, removal of failed existing protective coating from the 72-inch steel water main, perform abrasive sandblasting, application of welded steel straps, and finally the application of new protective coatings.

The cost of work increased by \$299,803.19, revising the project cost from \$456,085.14 to \$755,888.33.

Resolution No. R-30-23 would ratify the Revised Work Authorization Order No. 016 with Benchmark Construction, Inc. for an additional expense of \$299,803.19.

### Recommended Motion:

To adopt Resolution No. R-30-23.

DuPAGE WATER COMMISSION

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RESOLUTION NO. R-30-23

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**A RESOLUTION RATIFYING WORK AUTHORIZATION ORDER NO. 016  
UNDER QUICK RESPONSE CONTRACT QR-12/21**

WHEREAS, the DuPage Water Commission (the "Commission") entered into certain agreements dated June 30, 2021, with John Neri Construction Co., Inc., Rossi Contractors, Inc., and Benchmark Construction Co., Inc. for quick response construction work related to the Commission's Waterworks System (said being hereinafter collectively referred to as "Contract QR-12/21");

WHEREAS, Contract QR-12/21 is designed to allow the Commission to direct one or more or all the quick response contractors to perform quick response construction work, including without limitation construction, alteration, and repair related to the Commission's Waterworks System, as needed through the issuance of Work Authorization Orders; and

WHEREAS, the scope for quick response construction work could not have been reasonably foreseen at the time the contracts were signed;

WHEREAS, Work Authorization Order No. 016 was approved by the Board on November 17, 2022, with Benchmark Construction Co., Inc. to perform repairs to the West Discharge Tunnel and improve site drainage; and

WHEREAS, upon commencement of the work, significant corrosion was found on the 72-inch steel watermain that passes through the West Discharge Tunnel foundation wall; and

WHEREAS, Staff advised the Board on March 16, 2023, that additional emergency repair measures were required to alleviate potential catastrophic failure of the 72-inch steel water main.

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 ratified because the Board of Commissioners of the DuPage Water Commission has determined, based upon the representations of staff, that the circumstances said to necessitate the ratified work Authorization Orders were not reasonably

foreseeable at the time the contracts were signed, the Work Authorization Orders are in the best interest of the DuPage Water Commission and authorized by law.

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

	Aye	Nay	Absent	Abstain
Bouckaert, D.				
Cuzzone, N.				
Fennell, J.				
Healy, J.				
Novotny, D.				
Pruyn, J.				
Rush, K.				
Russo, D.				
Saverino, F.				
Suess, P.				
Van Vooren, D.				
Zay, J.				

ADOPTED THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 2023.

\_\_\_\_\_  
James Zay, Chairman

ATTEST:

\_\_\_\_\_  
Danna Mundall, Clerk

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EXHIBIT 1

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**WORK AUTHORIZATION ORDER**

**SHEET 1 OF 2**

**CONTRACT QR-12/21: QUICK RESPONSE CONTRACT**

**WORK AUTHORIZATION ORDER NO.: QR-12.016 Rev.01**

**LOCATION:**

DuPage Pump Station in Elmhurst

**CONTRACTOR:**

Benchmark Construction Co., Inc.

**DESCRIPTION OF WORK:**

In addition to all work described in WAO No. QR-12.016 provide and maintain controls, excavate full length around 72-inch steel water main between thrust blocks, remove existing coating from uncovered section of 72-inch steel water main, backfill the excavations, restore all disturbed areas, and all other work as described in the DuPage Pump Station Site Drainage Improvements documents, the following work is included to perform priority repairs to the severely corroded 72-inch steel water main as conditions warranted after excavation; perform additional abrasive blasting, install steel straps around the entire circumference of the affected areas, and apply new protective coatings to exposed piping, including dewatering, vacuum excavation, shoring, trench stabilization, backfill, and all equipment and labor necessary for the safe and efficient production of the same.

**REASON FOR ADDITIONAL WORK:**

To reinforce a section of 72-inch steel discharge water main and remediate corrosion found at the time of excavation.

**MINIMUM RESPONSE TIME:**

N/A

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

N/A

**THE WORK ORDERED PURSUANT TO THIS WORK AUTHORIZATION ORDER**

WAS  WAS NOT PRIORITY WORK

**SUPPLEMENTARY NOTIFICATION OF POTENTIALLY HAZARDOUS CONDITIONS:**

N/A

**SUBMITTALS REQUESTED:**

YES

**SUPPLEMENTARY CONTRACT SPECIFICATIONS AND DRAWINGS:**

YES

**DUPAGE WATER COMMISSION**

By: \_\_\_\_\_  
Signature of Authorized  
Representative

DATE: \_\_\_\_\_

**CONTRACTOR RECEIPT ACKNOWLEDGED AND DESIGNATION OF SAFETY REPRESENTATIVE:**

By: \_\_\_\_\_  
Signature of Authorized  
Representative

Safety Rep: \_\_\_\_\_  
Name and 24-Hr Phone No.

DATE: \_\_\_\_\_



Resolution #: R-31-23

Account: 01-60-663100, \$105,610.00

Approvals: *Author / Manager / Finance / Admin*

**D.P. RCB CAP PDM**

## REQUEST FOR BOARD ACTION

**Date:** 6/8/2023

**Description:** A Resolution to Approve Certain Work Authorization Orders Under Quick Response Contract QR-12/21.

**Agenda Section:** Engineering & Construction

**Originating Department:** Pipeline

The Commission entered into certain agreements dated June 30, 2021, with John Neri Construction Co., Inc., Rossi Contractors, Inc., and Benchmark Construction Co., Inc. for quick response construction work, through the issuance of Work Authorization Orders. Resolution No. R-31-23 would approve the following Work Authorization Orders under the Quick Response Contracts.

### Work Authorization Order No.020 Rossi Contractors, Inc.

Pipeline and Remote facilities staff have identified 14 additional manhole frames & lids and cathodic protection handhole structures that require repairs. These repairs include breaking asphalt and/or concrete street bases, excavating existing frames and adjustment rings, and resetting, replacing, or installing new adjustment rings, frames, or lids. Staff also asked the QR contractors to provide an estimate for 3 future manhole repairs that may come up as an additional line item. Staff solicited cost estimates for this work from the three QR-12/21 contractors and the results are listed below:

Company	Estimated Cost
Rossi Contractors, Inc.	\$105,610.00
Benchmark Construction Co., Inc.	\$346,800.00
John Neri Construction Co., Inc.	\$370,000.00

Staff has contacted Rossi Contractors, Inc. as the low bid contractor, due to the price discrepancy between bidders and Rossi has confirmed they are standing by their proposal price.

Resolution R-31-23 would approve Work Authorization Order No. 020 to Rossi Contractors, Inc. for the work as described in Exhibit 1 to this resolution, at a total estimated cost of \$105,610.00. This cost includes additional 3 manhole frame repairs that may be needed in the future.

### Recommended Motion:

To adopt Resolution No. R-31-23.

DuPAGE WATER COMMISSION

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RESOLUTION NO. R-31-23

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**A RESOLUTION APPROVING CERTAIN WORK AUTHORIZATION ORDERS  
UNDER QUICK RESPONSE CONTRACT QR-12/21**

WHEREAS, the DuPage Water Commission (the "Commission") entered into certain agreements dated June 30, 2021, with John Neri Construction Co., Inc., Rossi Contractors, Inc., and Benchmark Construction Co., Inc. for quick response construction work related to the Commission's Waterworks System (said being hereinafter collectively referred to as "Contract QR-12/21");

WHEREAS, Contract QR-1/21 is designed to allow the Commission to direct one or more or all the quick response contractors to perform quick response construction work, including without limitation construction, alteration, and repair related to the Commission's Waterworks System, as needed through the issuance of Work Authorization Orders; and

WHEREAS, the scope for quick response construction work could not have been reasonably foreseen at the time the contracts were signed;

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 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 in the best interest of the DuPage Water Commission and authorized by law.

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

	Aye	Nay	Absent	Abstain
Bouckaert, D.				
Cuzzone, N.				
Fennell, J.				
Healy, J.				
Novotny, D.				
Pruyn, J.				
Rush, K.				
Russo, D.				
Saverino, F.				
Suess, P.				
Van Vooren, D.				
Zay, J.				

ADOPTED THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 2023.

\_\_\_\_\_  
James Zay, Chairman

ATTEST:

\_\_\_\_\_  
Danna Mundall, Clerk

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EXHIBIT 1

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**WORK AUTHORIZATION ORDER**

**SHEET 1 OF 3**

**CONTRACT QR-12/21: QUICK RESPONSE CONTRACT**

**WORK AUTHORIZATION ORDER NO.: QR-12.020**

**LOCATION:**

Various locations throughout Commission transmission and distribution system, see attached map book.

**CONTRACTOR:**

Rossi Contractors, Inc.

**DESCRIPTION OF WORK:**

Repairs include breaking asphalt and/or concrete street bases, excavating existing frames and adjustment rings, and resetting, replacing, or installing new adjustment rings, frames, or lids at 14 discrete locations plus an additional 3 locations if deemed necessary and so directed by the Commission.

**REASON FOR WORK:**

Manhole lid and repairs are needed to maintain infrastructure and improve safe access to our pipeline facilities.

**MINIMUM RESPONSE TIME:**

N/A

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

DWC will supply all frames and lids needed for the repairs, the contractor is to provide everything else.

**THE WORK ORDERED PURSUANT TO THIS WORK AUTHORIZATION ORDER**

IS  IS NOT PRIORITY WORK

**SUPPLEMENTARY NOTIFICATION OF POTENTIALLY HAZARDOUS CONDITIONS:**

N/A

**SUBMITTALS REQUESTED:**

N/A

**SUPPLEMENTARY CONTRACT SPECIFICATIONS AND DRAWINGS:**

See attached.

**DUPAGE WATER COMMISSION**

By: \_\_\_\_\_  
Signature of Authorized  
Representative

DATE: \_\_\_\_\_

**CONTRACTOR RECEIPT ACKNOWLEDGED AND DESIGNATION OF SAFETY REPRESENTATIVE:**

By: \_\_\_\_\_  
Signature of Authorized  
Representative

Safety Rep: \_\_\_\_\_  
Name and 24-Hr Phone No.

DATE: \_\_\_\_\_