



AGENDA – Engineering and Construction Committee

Thursday, November 16, 2023 6:00 PM

Committee Members

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

- I. Roll Call
- II. Approval of the September 21, 2023, Engineering & Construction Committee Minutes

RECOMMENDED MOTION: To approve the Minutes of the September 21, 2023, Engineering & Construction Committee Meeting of the DuPage Water Commission.

- III. Report of Status of Operations and Construction
- IV. **Resolution R-56-23:** A Resolution Awarding a Contract for a 36-Month Landscape Maintenance Services Contract for the DuPage Water Commission (**Beary Landscape Management, Inc. – Estimated Cost of \$78,662.00 for 3-year Period**)
- V. **Resolution R-57-23:** A Resolution Approving and Ratifying Certain Change Orders for the DPPS Emergency Generation System Modifications - Contract PSD-10/22 (**Change Order No. 04 – Increase of Contract Price of \$51,645.01 to Revised Contract price of \$4,178,826.83**)
- VI. **Resolution R-58-23:** A Resolution Approving and Ratifying Task Order No. 03 Under a Master Contract with Carollo Engineering, Inc. (**Not-To-Exceed \$50,000.00**)
- VII. **Resolution R-60-23:** A Resolution Suspending Purchasing Procedures and Approving the Services of HSQ Technologies to Provide SCADA Integration Support with the Caterpillar Generator Controls System Upgrade (**Not-To-Exceed \$24,954.00**)

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

- VIII. Other
- IX. Adjournment

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**Minutes of a Meeting
of the**

ENGINEERING & CONSTRUCTION COMMITTEE

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

September 21, 2023

Commissioner Saverino 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, D. Panaszek and M. Weed

Commissioner Saverino moved to approve the Minutes of the August 17, 2023, Engineering & Construction Committee Meeting of the DuPage Water Commission. Motion seconded by Commissioner Bouckaert 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 Operations and Construction for September 2023 as well as the status of ongoing Capital Improvement Projects and Board Action Items.

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. While the cleaning and repair services by Midwest are complete, the mechanical seals are scheduled for installation and the pump and motor are to be set in place and aligned in the upcoming weeks. Manager of Water Operations Bostick also reported that when HLP #9 is back in service, the next HLP will be removed for inspection and service.

Regarding the Alternate Water Source Studies, Manager of Water Operations Bostick reminded the Committee that in April 2023, the Board of Commissioners received a report and presentation from the engineering firm Carollo Inc., for various source water alternatives. Since the report was tendered, North Suburban Municipal Joint Action Water Agency (NSMJAWA) and the Northwest Water Commission (NWC) have expressed interest in the potential of partnering with DWC on a regional project; Carollo has completed updating the report to include the potential additional partners and the impact to the routes and the scale of the proposed infrastructure. Manager of Water Operations Bostick advised the updated Carollo report is being validated by Burns & McDonald regarding the engineering and construction feasibility and R-50-23 is being vetted by the Finance Committee to hire Raftelis Financial Consultants to perform the financial viability and prepare conceptual financing plans for the "North Route". Manager of Water Operations Bostick advised the Committee that the updated Carollo report, the Burns & McDonald peer review and the Raftelis financial report will be brought forth for Board presentation and discussion at the October 19, 2023 Commission meeting.

Regarding R-52-23, Manager of Water Operations Bostick advised the Committee this item appears on the agenda seeking approval of Exterior Standpipe Cleaning Services by Jetco, Ltd., at a cost of \$26,350.00, as approved for in the FY-23/24 Management Budget. Manager of Water Operations Bostick reported that seven (7) direct solicitations were made for quotations, three (3) quotations

were received, and the two lowest quotations were rejected due to the refusal to perform the work as specified by the Commission's Special Coatings Consultant. Manager of Water Operations Bostick advised the Committee that the scheduled standpipe washing is the second year of a five-year program to prolong the service life of the standpipe coatings.

Regarding the DPPS Emergency Generation System, Manager of Water Operations Bostick reminded the Committee that in March of 2022, the Commission approved R-21-22, a design-build agreement with Caterpillar Power Systems via the Omnia Partners Joint Purchasing Cooperative. Manager of Water Operations Bostick advised the Committee the 5th Amendment to Task Order No. 03 with Greeley and Hansen, as R-53-23, is to provide Technical Observation and Record Documentation of the Caterpillar design-build project. Manager of Water Operations Bostick further advised that Staff had intentionally delayed the development of these engineering services until the full and final work scope and schedule was provided by Caterpillar.

Regarding R-46-23 and R-47-23, Manager of Water Operations Bostick advised the Committee these items appear on the agenda seeking approval of certain Task Orders with DeLasCasas CP to perform studies, design and construction services on various pipeline segments which require augmentation or replacement of cathodic protection systems necessary to protect the steel water mains.

Regarding the Montgomery/Oswego/Yorkville (the Water Link Communities) pipeline Phase I design, Manager of Water Operations Bostick advised the Committee the design team is diligently proceeding with the scheduled work including the data gathering as requested by Commonwealth Edison as a necessary precedent to discussions about the potential acquisition of easements.

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 through 5 of the Engineering and Construction Committee portion of the Commission Agenda. Seconded by Commissioner Novotny and unanimously approved by a Voice Vote.

Chairman Fennell asked 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 6:17 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
Jeff Loster – Manager of Engineering

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

Date: 11/9/2023

Subject: Status of Operations, Engineering and Construction

Operations Overview

The Commission's sales for October 2023 were a total of 2.15 billion gallons. This represents an average daily demand of 69.5 million gallons per day (MGD), which is the same as the October 2022 average day demand of 69.5 MGD. The maximum day demand was 80.4 MGD recorded on October 2, 2023, which is higher than the October 2022 maximum day demand of 79.3 MGD. The minimum day flow was 63.4 MGD.

The Commission's recorded total precipitation for October 2023 was 2.25 inches compared to 1.66 inches for October 2022. The level of Lake Michigan for October 2023 is 579.27 (Feet International Great Lakes Datum (IGLD) 1985) compared to 579.40 (Feet IGLD 1985) for October 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 annually. 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 complete, delivery of the motor occurred on April 6th; reinstallation and assembly of both pump and motor are in process.

The Annual Customer Meter Testing Program is 40% complete.

CAT Power Systems mobilized on November 6th to commence the upgrade of the Emergency Generation System Controls package as approved under a cooperative purchasing agreement through Omnia Partners. Greeley and Hansen will provide Technical Observation and Project Management services to document the upgrade on behalf of the Commission. The work is expected throughout November and into December. R-60-23 appears on the agenda seeking approval to engage HSQ Technologies, the Commission's existing SCADA system provider, to provide support in transferring critical data between the new generator controls platform and the existing SCADA platform at a cost not to exceed \$24,954.00.

R-56-23 appears on the agenda seeking authorization to award a contract for 36-month Landscape Maintenance Services for the DuPage Pumping Station and remote tank sites.

Alternate Water Source Study

In October 2023, the Board of Commissioners received a presentation from the engineering firm Carollo Inc., in which a general project overview and progress were shared with the Commission. Project design components, schedule, costs, and potential water agency partners were also reviewed. Burns and McDonnell engineers were engaged to validate the Carollo study. Both firms are working together to refine the projected construction schedule to assist the Commission with determining the length of the extension of the Water Purchase and Sale Agreement with the City of Chicago.

Staff from Raftelis Financial Consultants, Inc. (Raftelis) were also present at the October 2023 meeting, having been contracted by the Commission to provide a financial review of the work performed by Carollo, Inc. They too gave a presentation to share their review of anticipated project schedule, costs and financing options based on assumed parameters.

NSMJAWA and NWC will be receiving presentations from the Source Water consultant team this month.

Pipeline & Remote Facilities Maintenance Overview

Pipeline Staff continues Meter Station drainage improvements, Air Release Structure inspections, Meter Station inspections and performing maintenance work.

Pipeline staff continue to monitor frame and lid replacement work at various locations as performed under WAO No. 20 by QR-12 contractor Rossi Contractors.

Power washing at Standpipe No. 2 is complete.

Engineering & Capital Improvement Program Overview

The DPPS Emergency Generation System Modifications (Contract PSD-10/22) project is ongoing. The contractor has finished installing the roofing and has removed the east wall of the existing Generator Room to effectively join the existing room to the new addition. With

the building envelope having been completed, the contractor is mobilizing to work on indoor plumbing, HVAC and electrical work.

R-57-23 appears on the agenda seeking approval of Change Order No. 04, which involves masonry modifications needed to retain the existing precast coping and the relocation of concealed fire suppression and compressed airline systems to accommodate new ductwork. This change incurs an additional cost of \$51,645.01 and a time extension of 28 days. To date, net Change Order Percentage is an increase of 1%.

DeLasCasas CP, LLC. has successfully concluded feasibility testing and is currently in the design phase for a cathodic protection galvanic anode system intended to service a portion of the West Transmission Main. DeLasCasas CP, LLC. is also actively engaged in designing a cathodic protection galvanic anode system to service the Inner Belt Transmission Main.

WaterLink Communities (Montgomery/Oswego/Yorkville)

Phase I engineering continues to progress with data gathering such as site and topographical surveying, geotechnical investigation and the research of parcel-ownership along the potential route alternatives. Staff and the Phase I engineering consultant, LAN and Associates (LAN), continue to actively engage stakeholders and affected state, county, municipal and other private agencies along the potential routes. Route selection discussions have been ongoing throughout the project, with the desired route having recently been identified. Phase I engineering work is anticipated to wrap up at the end of the 2023 calendar year, culminating in a Project Development Report which will summarize the Phase I findings and help direct Phase 2 engineering efforts. The Engineer's monthly status report is included within the Board packet.

SCADA & Information Technology Overview

The SCADA Replacement Project (Contract PSD-9/21) is ongoing. The SCADA system programming continues to be developed and is on schedule with Concentric Integration's control system acceptance testing and installation plans. The next major phase of the project, the DWC Campus head end system installation and control panel replacement, is around the corner with the work anticipated to kick off in early 2024. DWC staff members are actively preparing for the upcoming control system installation with sequencing workshops being held and methods of procedure being planned out. The Factory Acceptance Test (FAT) for the new SCADA system is scheduled for January/February 2024. The project is progressing under budget and on schedule.

November 2023 Commission Agenda Items:

- Resolution R-56-23:** A Resolution Awarding a Contract for a 36-Month Landscape Maintenance Services Contract for the DuPage Water Commission **(Beary Landscape Management, Inc. – Estimated Cost of \$78,662.00 for 3-year Period)**
- Resolution R-57-23:** A Resolution Approving and Ratifying Certain Change Orders for the DPPS Emergency Generation System Modifications - Contract PSD-10/22 **(Change Order No. 04 – Increase of Contract Price of \$51,645.01 to Revised Contract price of \$4,178,826.83)**
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Attachments

1. DuPage Laboratory Bench Sheets for September 2023
2. Water Sales Analysis 01-May-2020 to 30-September-2023
3. DuPage Water Commission Chart Sales vs. Historical Average
4. DuPage Water Commission Chart Sales vs. Allocation
5. WaterLink status report

DU PAGE WATER COMMISSION
WATER SALES ANALYSIS

01-May-92 TO 31-Oct-23

PER DAY AVERAGE 78,118,441

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
Jun-23	2,971,436,000	3,043,540,086	97.63%	\$16,016,040.04	\$13,814,628.45	678,930	0.02%	97.65%	\$5.39	\$4.539
Jul-23	2,567,425,000	2,639,887,376	97.26%	\$13,838,420.75	\$11,982,448.80	1,047,600	0.04%	97.29%	\$5.39	\$4.539
Aug-23	2,708,945,000	2,773,069,509	97.69%	\$14,601,213.55	\$12,586,962.50	832,992	0.03%	97.72%	\$5.39	\$4.539
Sep-23	2,406,858,000	2,471,708,096	97.38%	\$12,972,964.62	\$11,219,083.05	753,904	0.03%	97.41%	\$5.39	\$4.539
Oct-23	2,071,291,000	2,116,545,770	97.86%	\$11,164,258.49	\$9,607,001.25	1,034,131	0.05%	97.91%	\$5.39	\$4.539
TOTALS (1)	898,830,779,798	924,747,067,660	97.20%	\$2,224,320,629.75	\$1,965,621,646.55	866,604,138	0.09%	97.29%	\$2.47	\$2.126

(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

Oct-22	15,020,823,000	15,476,515,035	97.06%	77,807,863	66,406,588			\$5.18	\$4.291
Oct-23	15,200,332,000	15,585,191,670	97.53%	81,929,789	70,189,909			\$5.39	\$4.504
	179,509,000	108,676,635		\$4,121,926	\$3,783,321				
	1.2%	0.7%			5.3%				
Month									
Oct-22	2,153,410,000	2,220,050,683	97.00%	11,154,664	9,595,059			\$5.18	\$4.322
Oct-23	2,071,291,000	2,116,545,770	97.86%	11,164,258	9,607,001			\$5.39	\$4.539
	(82,119,000)	(103,504,913)		\$9,595	\$11,942				
	-3.8%	-4.7%		0.1%	0.1%				
Oct>Sept	(335,567,000)	(355,162,326)		(1,808,706)	(1,612,082)				

DUPAGE WATER COMMISSION
PWS FACILITY ID# - IL435400
MONTHLY OPERATIONS REPORT
OCTOBER 2023

DATE	CHICAGO SUPPLY		DUPAGE DISCHARGE				
	FLOW (MG)	FREE Cl ₂ (mg/L)	FLOW (MG)	FREE Cl ₂ (mg/L)	12.5 % Cl ₂ in NaOCl #'s Added	DWC FREE Cl ₂	
						Calculated (mg/L)	Measured (mg/L)
1	65.67	1.28	70.96	1.26	100.8	1.29	1.26
2	79.81	1.29	77.50	1.36	100.8	1.30	1.36
3	74.67	1.36	76.19	1.37	100.8	1.37	1.37
4	83.71	1.40	78.99	1.46	72.0	1.41	1.46
5	72.50	1.22	69.73	1.40	72.0	1.23	1.40
6	77.77	1.16	66.64	1.40	72.0	1.17	1.40
7	57.44	1.31	72.00	1.31	72.0	1.32	1.31
8	76.14	1.28	69.96	1.41	72.0	1.29	1.41
9	61.08	1.35	67.20	1.29	72.0	1.36	1.29
10	75.56	1.24	68.08	1.28	72.0	1.25	1.28
11	74.17	1.14	71.10	1.32	72.0	1.15	1.32
12	68.93	1.21	66.09	1.29	72.0	1.22	1.29
13	57.36	1.24	66.85	1.32	72.0	1.25	1.32
14	72.05	1.25	64.15	1.35	72.0	1.26	1.35
15	56.95	1.38	63.51	1.32	72.0	1.39	1.32
16	74.71	1.32	72.33	1.32	72.0	1.33	1.32
17	72.01	1.17	60.04	1.27	72.0	1.18	1.27
18	57.60	1.39	69.66	1.28	72.0	1.40	1.28
19	73.14	1.33	66.61	1.37	72.0	1.34	1.37
20	56.63	1.30	61.01	1.34	57.6	1.31	1.34
21	73.70	1.34	65.92	1.31	57.6	1.35	1.31
22	59.47	1.37	65.43	1.29	57.6	1.38	1.29
23	69.86	1.29	68.55	1.39	57.6	1.30	1.39
24	68.65	1.30	67.58	1.37	57.6	1.31	1.37
25	67.20	1.31	63.88	1.38	57.6	1.32	1.38
26	71.63	1.27	67.83	1.31	57.6	1.28	1.31
27	56.69	1.28	61.00	1.39	57.6	1.29	1.39
28	67.25	1.21	68.28	1.36	57.6	1.22	1.36
29	68.53	1.38	60.62	1.39	57.6	1.39	1.39
30	62.91	1.36	62.40	1.36	57.6	1.37	1.36
31	56.91	1.31	60.26	1.32	57.6	1.32	1.32
TOTAL	2110.70	40.04	2090.35	41.59	2145.60	40.34	41.59
AVG.	68.09	1.29	67.43	1.34	69.21	1.30	1.34
MAX.	83.71	1.40	78.99	1.46	100.80	1.41	1.46
MIN.	56.63	1.14	60.04	1.26	57.60	1.15	1.26

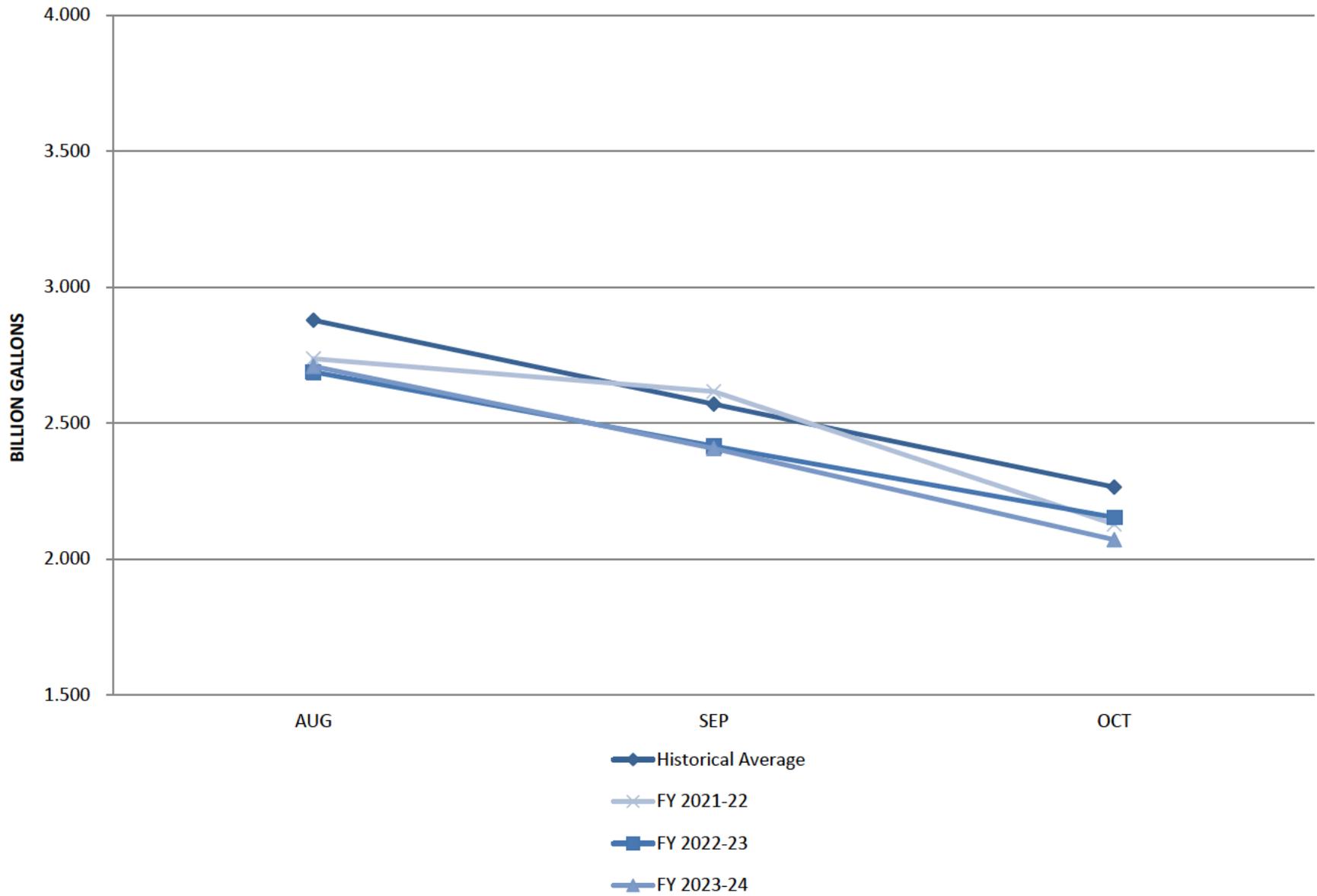
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11/6/23

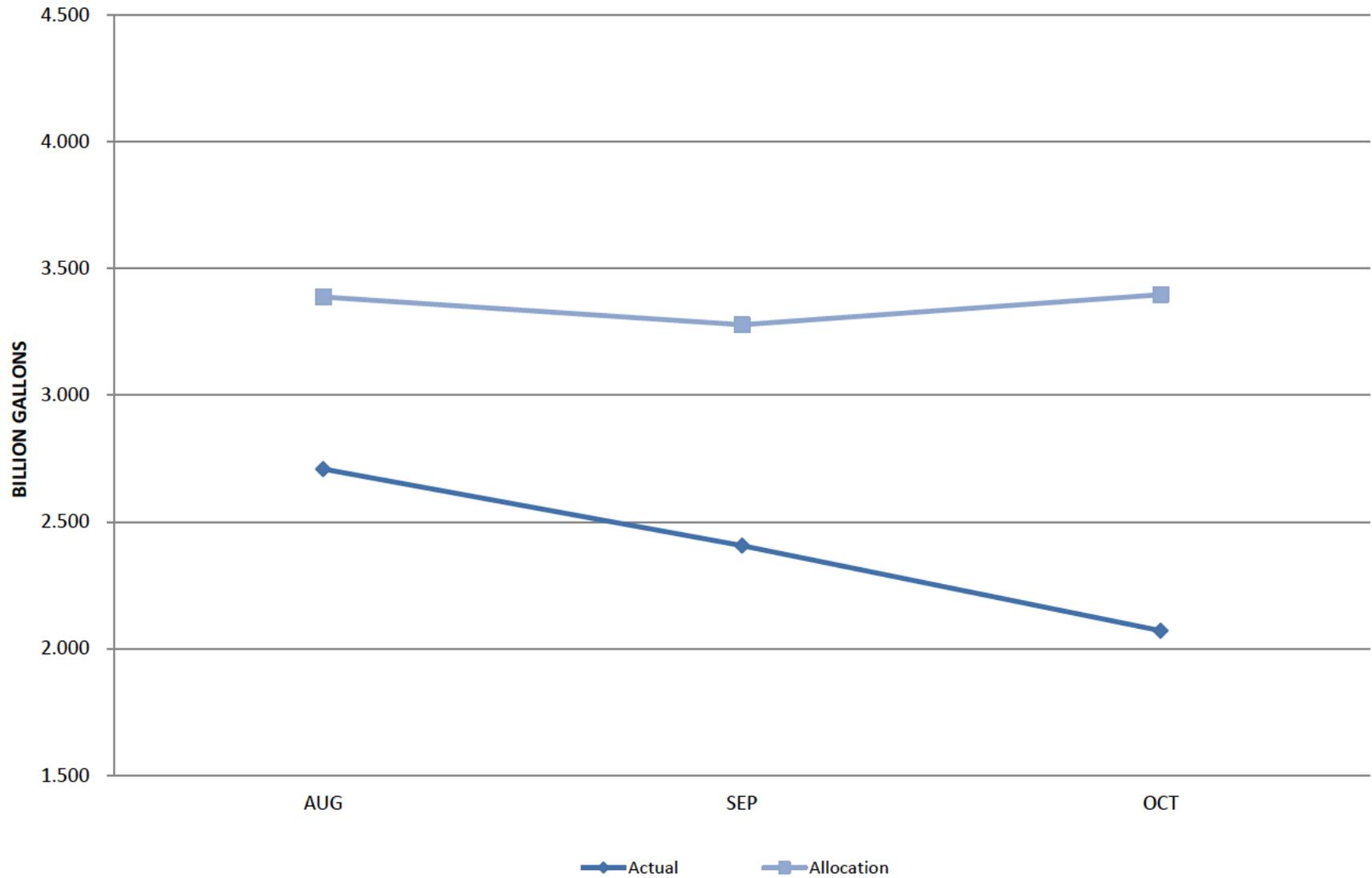
Mike Weed, Operations Supervisor
Illinois ROINC # 186860234

Date

DU PAGE WATER COMMISSION SALES FY 2023-24, 2022-23 & 2021-22 VS. HISTORICAL AVERAGE



DU PAGE WATER COMMISSION SALES FY 2023-24 VS. ALLOCATION





MONTHLY STATUS REPORT

LAN PROJECT #: 128-10031-000

PROJECT: DuPage Water Commission WaterLink Extension

REPORT DATE: November 8, 2023

MEETING DATE: November 16, 2023

I. Progress through November 8, 2023

A. Field data collection and Surveying remains ongoing.

1. Total of 41 initial JULIE tickets comprising 300+ individual utility requests were submitted in June. Thus far, approximately 90% responses received; 22 second requests submitted in late July for those utilities that didn't respond within 30 days of initial request.
2. Survey monumentation, survey control, cadastral line development completed at 40 of 40 initial locations. No further field work is being conducted at this time related to these items.
3. Detailed site topographic survey completed at 12 key intersections (See attached Survey Progress Exhibit).
 - a) Additional topographic survey at the ComEd crossing of Fox River has been collected in the field, processed, and drafted. Survey will include data collected during previously completed hydrographic survey of Fox River.
4. Soil borings completed at 11 locations to date, with 17 more scheduled in coming weeks as ComEd access and IDOT permit approvals are secured. Borings at 75th Street and Book Road will be drilled next, once DuPage County DOT permit is issued.
 - a) Robinson survey crews have collected 'as drilled' locations and elevation data to place on applicable plan/profile sheets.
 - b) Geotechnical boring logs on initial borings have been generated and supplied to Design Team for review.
5. Total of 59 title commitment requests received for ComEd routes. Required for ComEd review of preliminary plan and profile drawings. Easement information added to drawings for purposes of refining pipeline alignments.

B. Data collection (as-builts, GIS, design drawings) is ~95% complete.

1. Depth information received from Fox Metro for sewer within ComEd property at Fox River.



**Lockwood, Andrews
& Newnam, Inc.**
A LEO A DALY COMPANY





MONTHLY STATUS REPORT

- C. Evaluation of route alternatives in progress. Two routes under consideration consist of “ComEd Extended Route” and one Non-ComEd Route – “Montgomery Road” (See attached route maps). The third route alternative – “95th Street” was eliminated from further consideration following the completion of the route analysis matrix.
- D. Ongoing Coordination with ComEd.
1. Preliminary plan and profile drawings were submitted to ComEd on 11/01/23 which initiated ComEd Engineering Department review. Review will determine feasibility of utilizing ComEd property for the proposed pipeline alignment.
 - a) Drawings also submitted to DWC for review and coordination w/ ComEd.
 2. DWC and Team met with ComEd Environmental Services Department on 11/01/23 to understand requirements for geotechnical work. Geotechnical work not allowed on property until ComEd’s environmental due diligence process is completed.
 - a) ESA Phase 1 submitted as part of ComEd requirements.
 - b) ComEd requires additional information including exhibit showing proposed geotechnical boring locations, method of sampling, floodplain/floodway information, and identification of any environmental sampling. Team to compile and send information to ComEd as soon as possible.
 - c) Typical review/response period for ComEd is 2-3 weeks, but can be longer if environmental field work is included.
- E. Route Analysis Matrix review meeting held on 10/30/23.
1. Team met with DWC staff to review and discuss methodology and results of route matrix. DWC concurred with outcomes of analysis.
 2. Route analysis factored in constructability, operations and maintenance, and business/community impacts. Cost was not included in this initial evaluation. Two highest ranking routes will be further evaluated, including cost, to determine best route alternative for the project.
 3. Outcomes included:
 - a) “ComEd Extended” route ranked as best route alternative. “Montgomery Road” route ranked second. Team will move forward with further analysis of these two routes taking additional factors into consideration such as cost, system resiliency, and future growth. ComEd to review and provide preliminary input on feasibility of pipeline installation in their property.
 - b) Discussion needed with Forest Preserve regarding tunnel crossing at 75th Street and Book Rd. Intersection has limited space and corner easement may be required. Team provided preliminary layout exhibits for DWC initial discussions.



Lockwood, Andrews
& Newnam, Inc.
A LEO A DALY COMPANY





MONTHLY STATUS REPORT

II. Scope Changes (to date)

- A. Extended ComEd route alternate to be included in route evaluation.
 - 1. Additional geotechnical investigation for ComEd extended route across Fox River.
 - 2. Additional survey for ComEd extended route across the Fox River.
 - 3. Titles and plats for all parcels in Extended ComEd Corridor.
- B. Hydraulics workshop added in place of 75th and Book Road connection workshop.

III. Financials

- A. Total Phase I Contract: \$4,263,649.00 (plus in-progress field services authorized for ComEd Extended Route)
- B. Fee Expended through October 31, 2023:
 - 1. Total: \$2,031,313.58 (47.6%) *
 - a) Basic Services: \$995,360 (23.3%) *
 - b) Additional Services: \$1,035,954 (24.3%) *

*Note: Amounts are estimated pending final subconsultant October invoices.

IV. Completed Workshops, Meetings and Visits

- A. Route Analysis Matrix Review Meeting – October 30, 2023.
- B. ComEd Environmental Services Department Coordination Meeting – November 1, 2023.
- C. Yorkville Hydraulics Coordination Meeting – November 7, 2023.

V. Upcoming Tasks & Meetings

- A. Further coordination with ComEd.
- B. Completion of geotechnical and CCDD analyses, including geotechnical along ComEd route.
- C. Preparation of preliminary plan and profile drawings for recommended route alternative.
- D. Additional route evaluation for two selected alternatives, including development of cost estimates.
- E. Preliminary project review meeting with U.S. Army Corps of Engineers for Fox River crossing discussion.
- F. Route alternatives and Fox River crossing workshops.
- G. Identification of appropriate locations for SUE and potholing investigations, as needed.
- H. Development of hydraulic and pipeline design criteria technical memos.



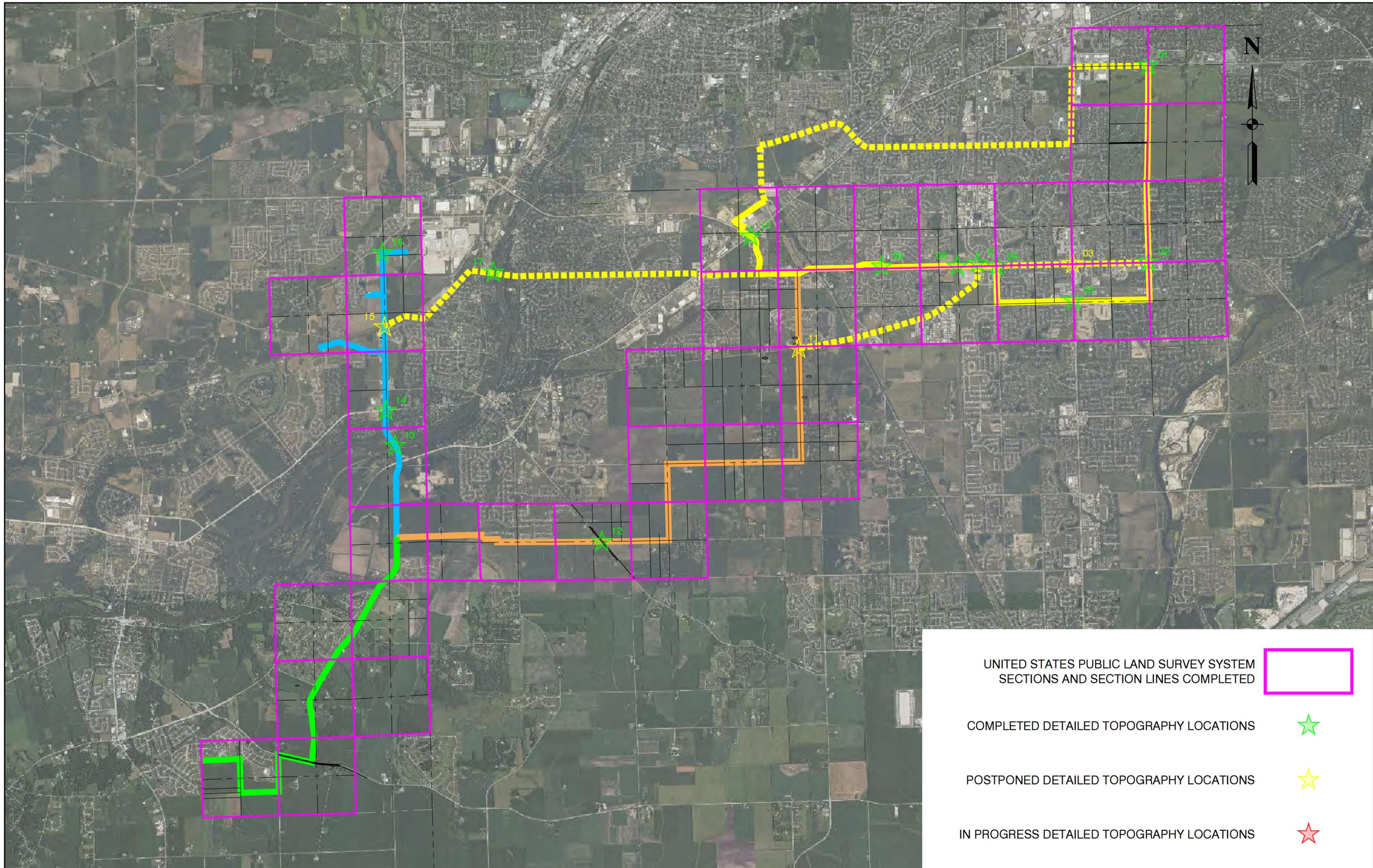
Lockwood, Andrews
& Newnam, Inc.
A LEO A DALY COMPANY



**Cash Flow/Invoicing Forecast - Phase I Services
DuPage Water Commission
WaterLink Extension
November 2023**

Description	Activity through June 30, 2023	Activity through July 31, 2023	Activity through September 01, 2023	Activity through September 29, 2023	Activity through October 31, 2023	Planned	Planned	Planned	Planned	
	July 2023	August 2023	September 2023	October 2023	November 2023*	December 2023	January 2024	February 2024	March 2024	
Basic Services	\$ 95,813	\$ 144,374	\$ 251,845	\$ 197,193	\$ 290,490	\$ 475,534	\$ 424,094	\$ 304,352	\$ 130,000	
Additional Services	\$ 67,127	\$ 360,443	\$ 403,110	\$ 100,162	\$ 103,665	\$ 509,046	\$ 406,402	\$ -	\$ -	
MONTHLY TOTALS	\$ 162,940	\$ 504,817	\$ 654,956	\$ 297,355	\$ 394,155	\$ 984,580	\$ 830,495	\$ 304,351	\$ 130,000	
TOTAL PHASE I FEE								\$	4,263,649	

* Note: Estimated pending final subconsultant October invoices.



UNITED STATES PUBLIC LAND SURVEY SYSTEM
SECTIONS AND SECTION LINES COMPLETED 

COMPLETED DETAILED TOPOGRAPHY LOCATIONS 

POSTPONED DETAILED TOPOGRAPHY LOCATIONS 

IN PROGRESS DETAILED TOPOGRAPHY LOCATIONS 

REV.	DATE	DESCRIPTION	BY	DATE	DESIGNED	CHECKED
				July 28, 2023	REG	REG
				1"=3000'	REG	REG
				23-R0494	REG	REG

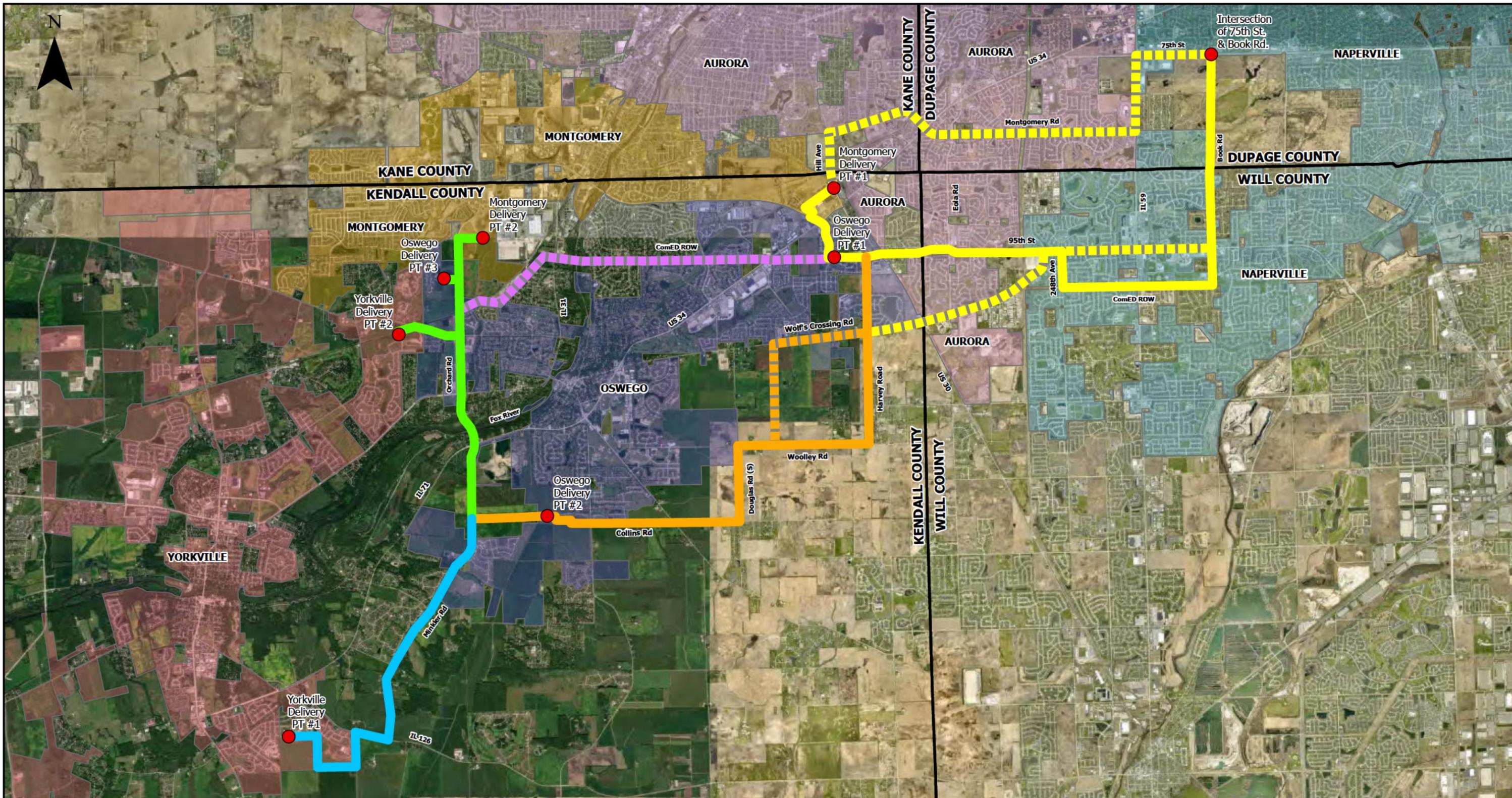


DUPAGE WATER COMMISSION
WATERLINK EXTENSION

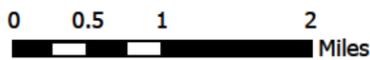
CIVIL
SURVEY FIELD WORK
PROGRESS MAP
NOVEMBER 2023



3000 0 3000
DRAWING NO. 1 SHEET NO. 1 of 1



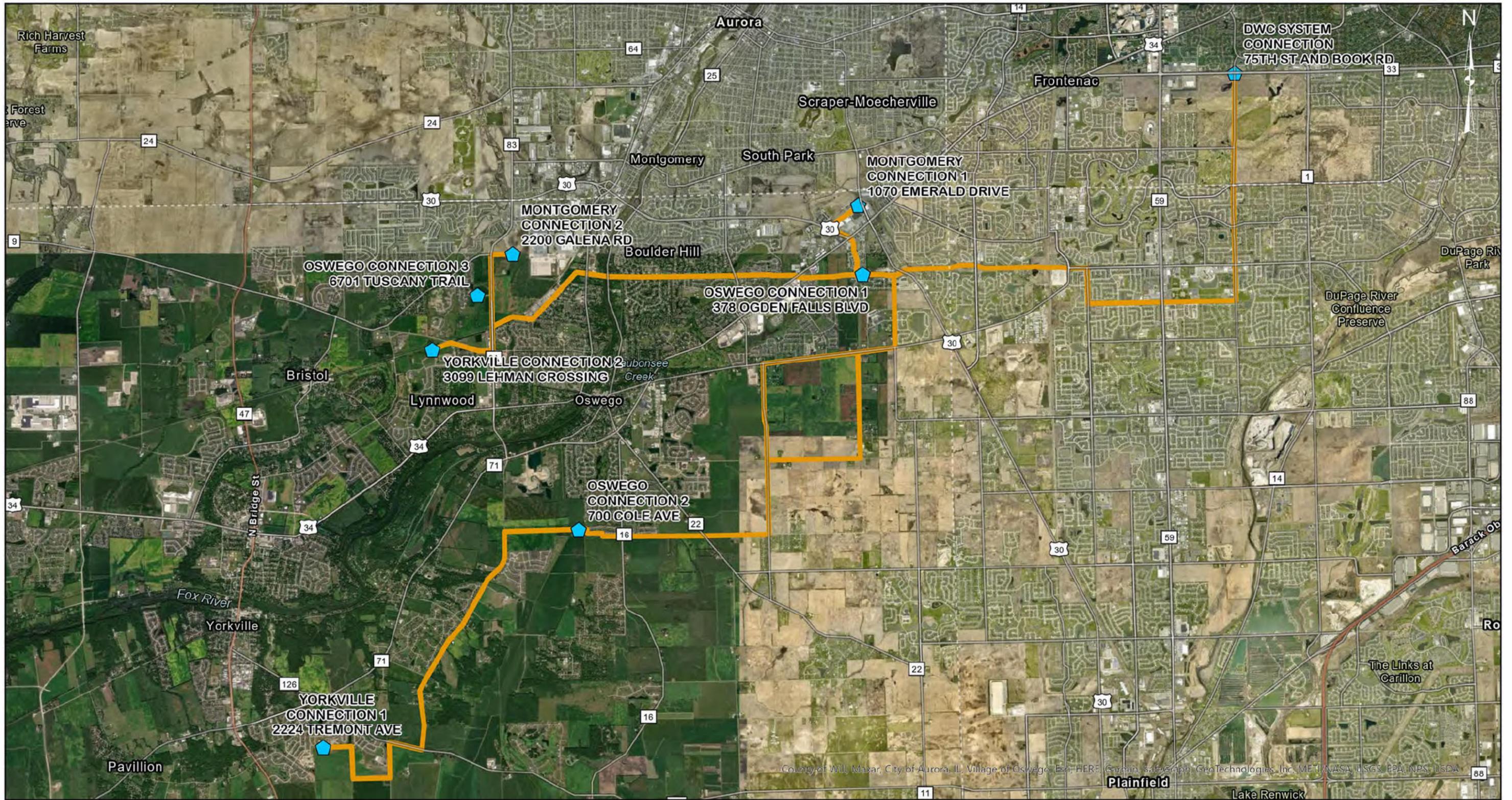
- Legend**
- Delivery Points
 - PIPELINE SEGMENT 1
 - PIPELINE SEGMENT 2
 - PIPELINE SEGMENT 3
 - PIPELINE SEGMENT 4
 - PIPELINE SEGMENT 1 ALTERNATIVE
 - PIPELINE SEGMENT 2 ALTERNATIVE
 - ComEd Extended Alternative



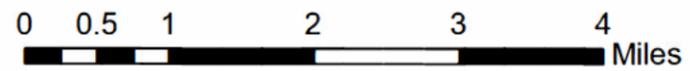
DuPage Water Commission WaterLink Extension Project Route Map

July 2023



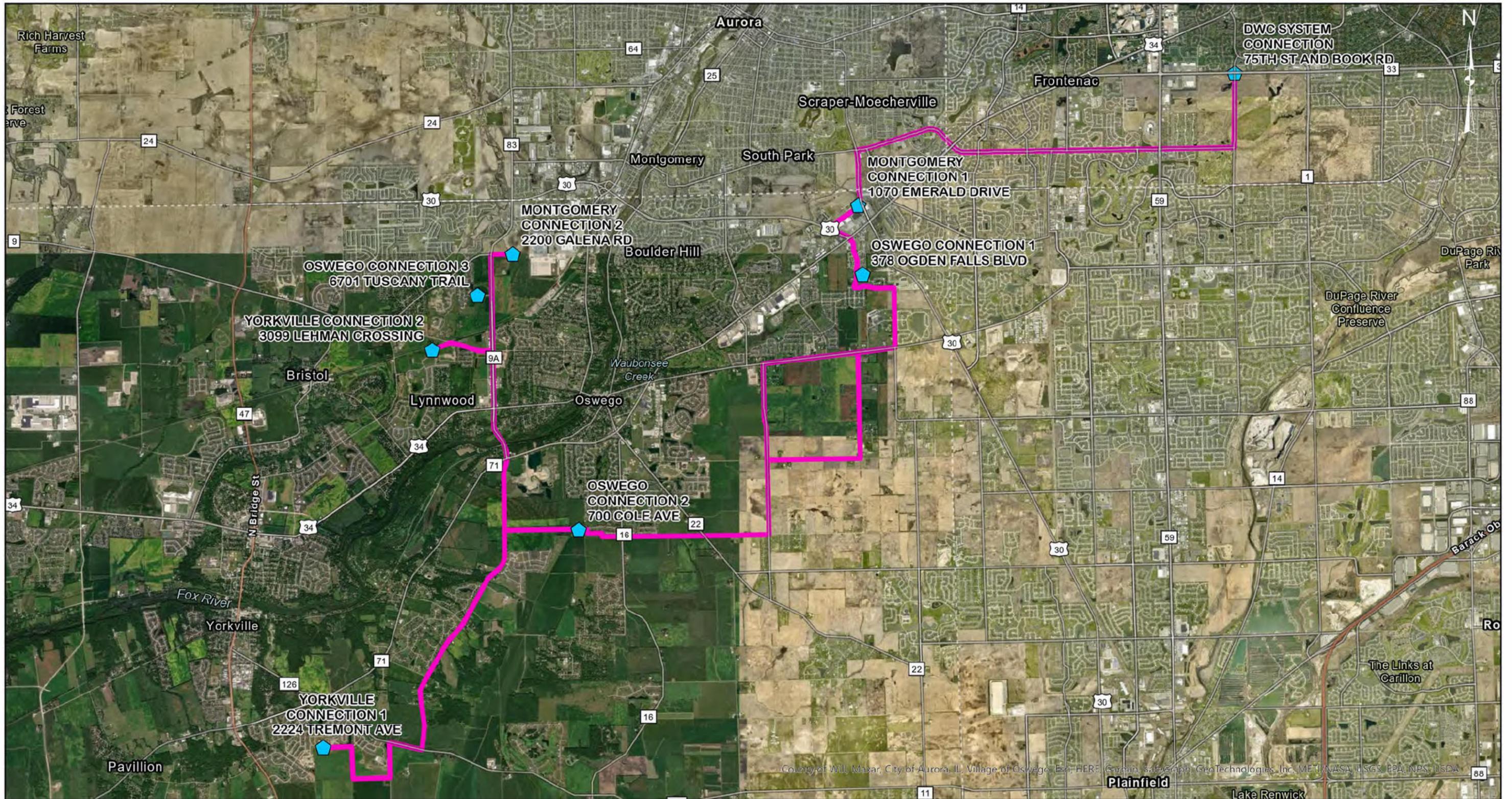


-  SYSTEM CONNECTION POINT
-  ROUTE 1

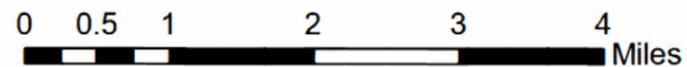


ROUTE 1 COMED EXTENDED EASEMENT

DUPAGE WATER COMMISSION WATERLINK EXTENSION	8/7/2023	FIGURE 1
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-  SYSTEM CONNECTION POINT
-  ROUTE 2

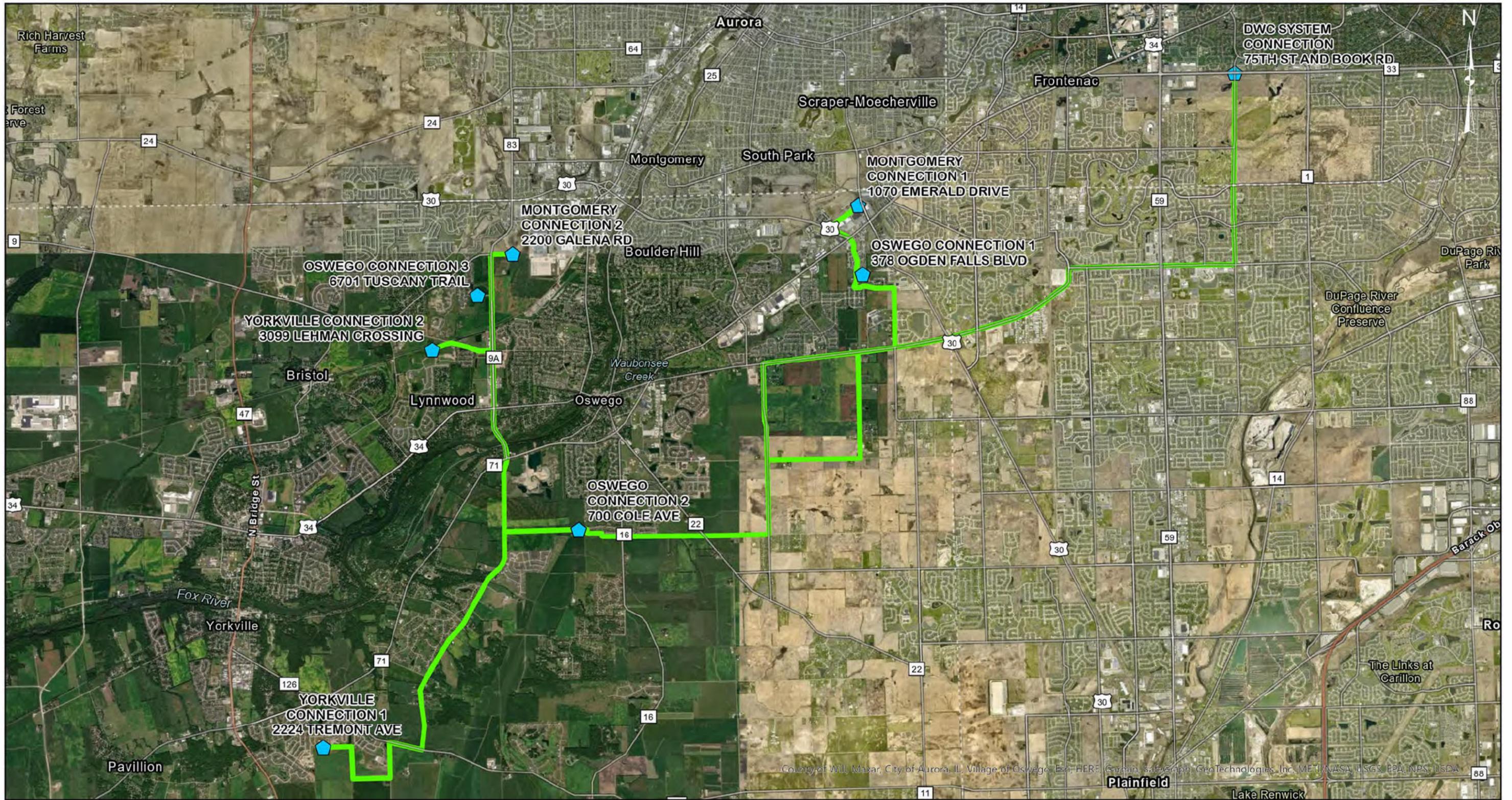


ROUTE 2 MONTGOMERY ROAD

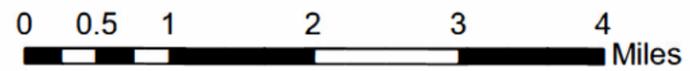
DUPAGE WATER COMMISSION
WATERLINK EXTENSION

8/7/2023

FIGURE 2

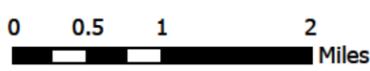
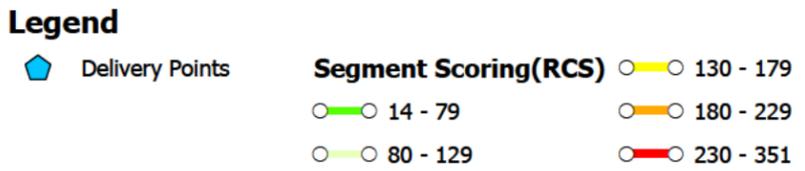
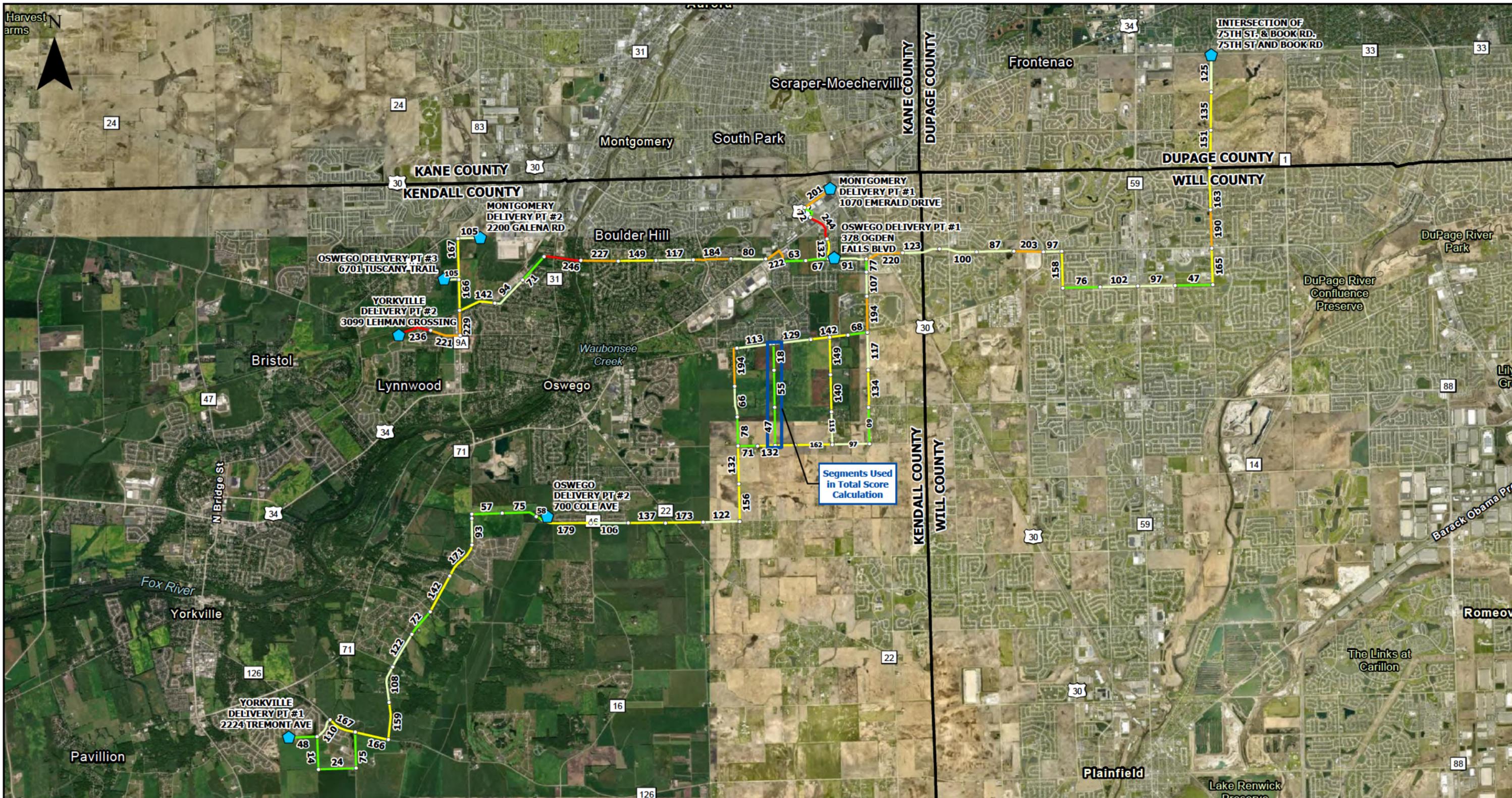


-  SYSTEM CONNECTION POINT
-  ROUTE 3



ROUTE 3 95TH STREET

DUPAGE WATER COMMISSION WATERLINK EXTENSION	8/7/2023	FIGURE 3
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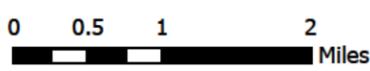
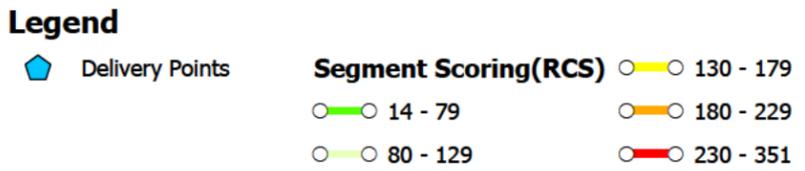
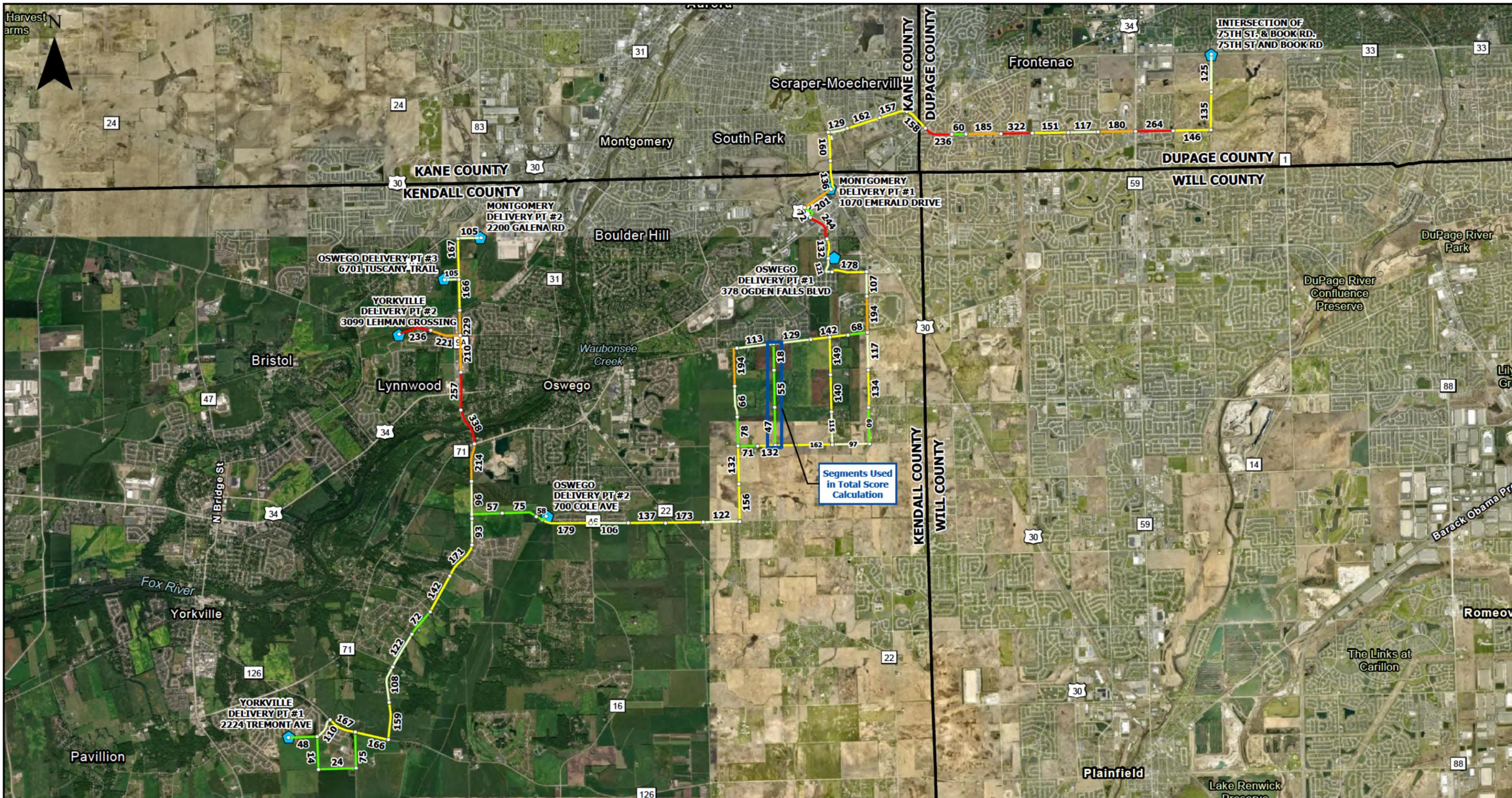


DuPage Water Commission WaterLink Extension ComEd Route Results

75 Segments, 33.2 miles
Total RCS: 9416

October 2023



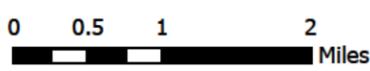
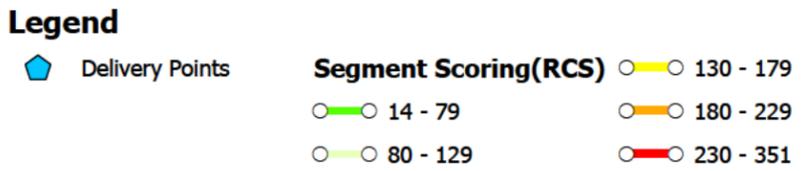
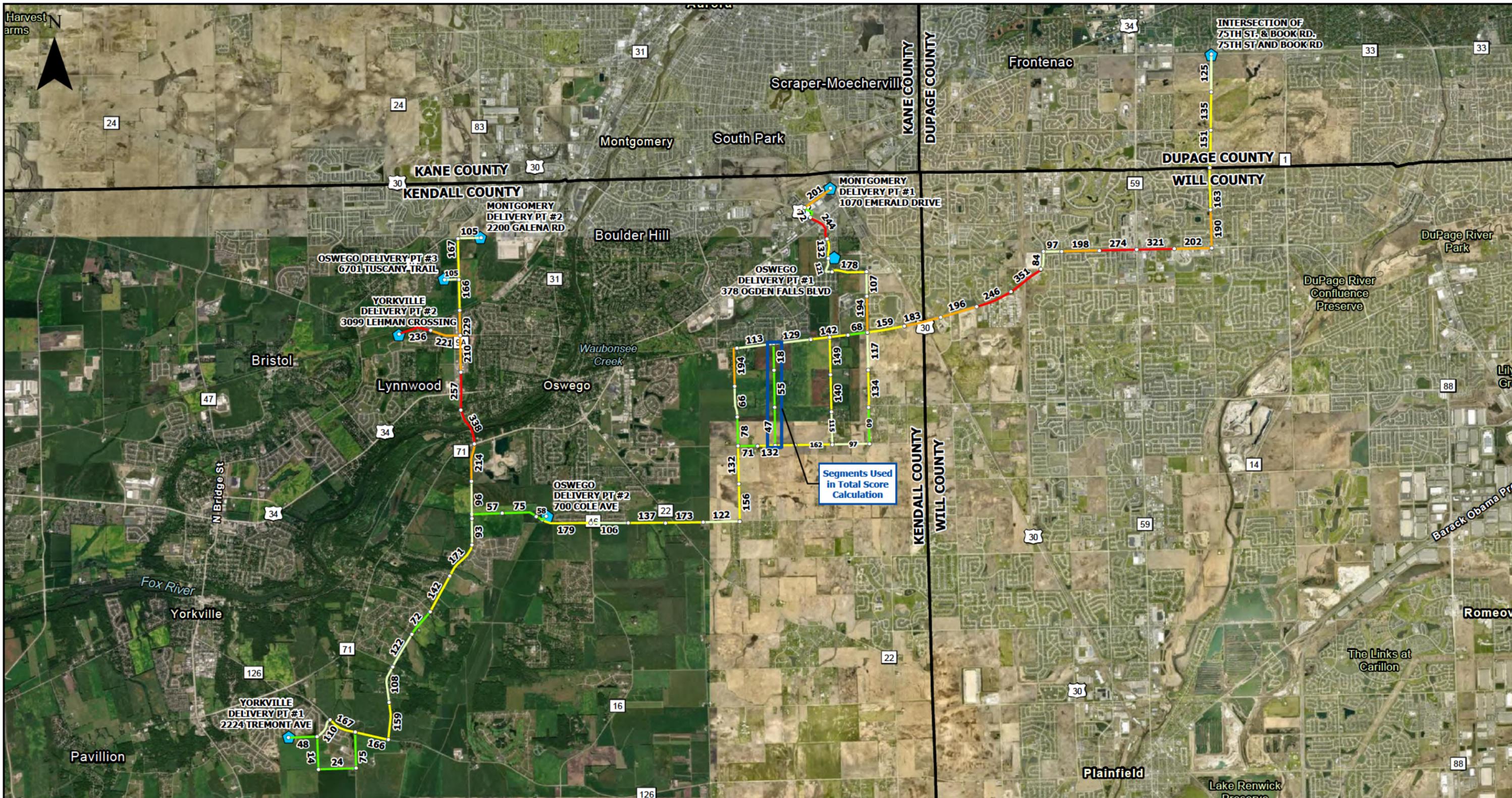


DuPage Water Commission WaterLink Extension Montgomery Road Route Results

68 segments, 29.2 miles
Total RCS: 9584

October 2023





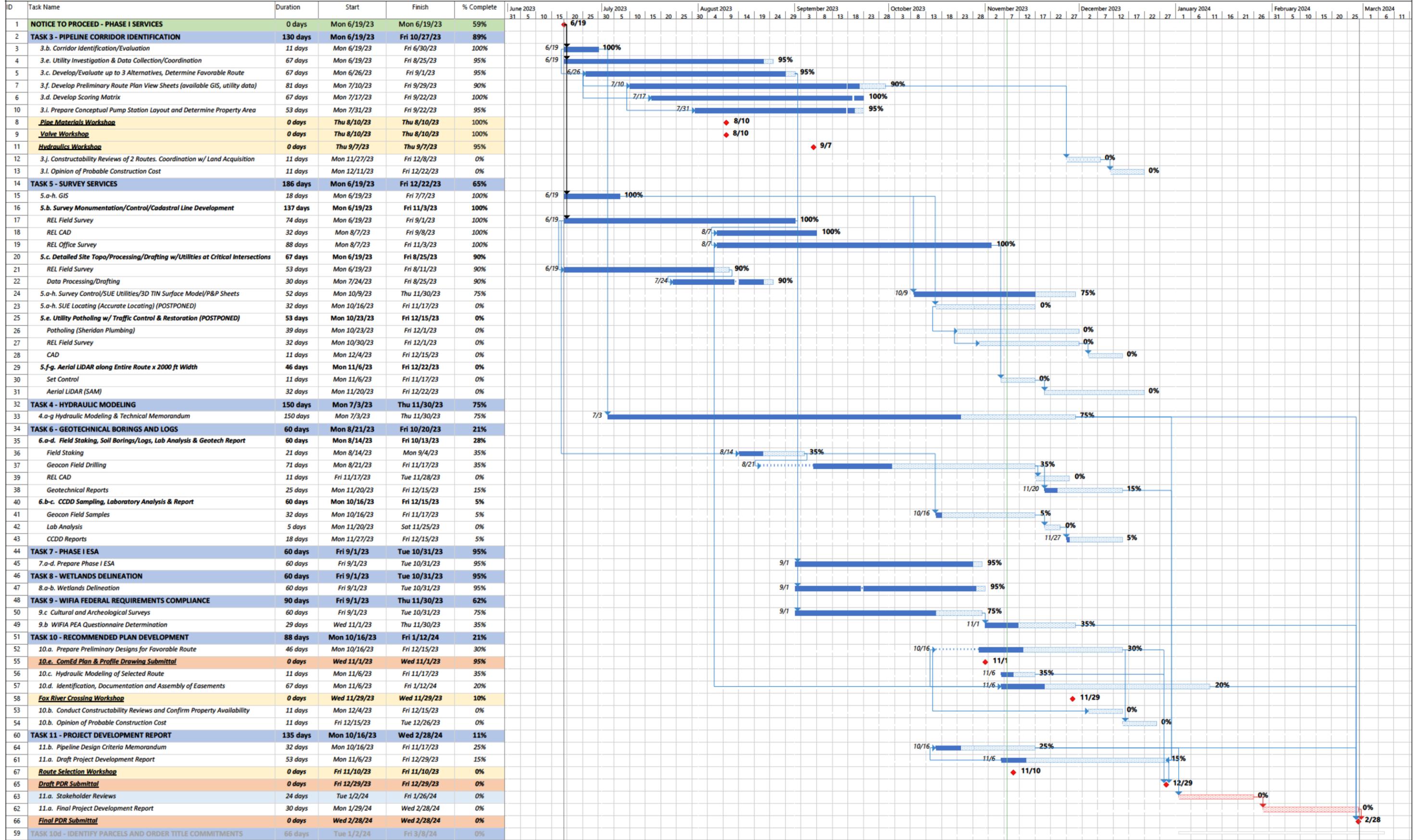
DuPage Water Commission WaterLink Extension 95th/Wolf's Crossing Route Results

67 Segments, 29.7 miles
Total RCS: 9836

October 2023



DuPage Water Commission
WaterLink Extension
Phase I Project Schedule



Critical [Pattern] Task [Pattern] Milestone [Symbol]



Resolution #: R-56-23

Account: 01-60-629000

Approvals: *Author / Manager / Finance / Admin*

MW RCB CAP PDM

REQUEST FOR BOARD ACTION

Date: 11/8/2023

Description: A Resolution Awarding a Contract for a 36-Month Landscape Maintenance Services Contract for the DuPage Water Commission.

Agenda Section: Engineering & Construction

Originating Department: Operations

This request would authorize a 36-Month Landscape Maintenance Services unit price contract with Beary Landscape for periodic landscape services, at an estimated cost for three years of \$78,662. The expenses are in the Approved FY-23/24 Management Budget and shall be included in the tentative Management Budgets going forward at an estimated annual amount of \$55,300.00, which includes funds for additional services as directed during the year (i.e. landscaping repairs, replacement of dead material, etc).

The Commission solicited sealed proposals by direct invitation, as well as by notice published in the *Daily Herald* on October 2, 2023, and October 17, 2023, and by posting notice of the solicitation on the Commission's website starting October 2, 2023, and ending on November 1, 2023. Sealed proposals were received until 10:00 a.m., November 1, 2023, at which time all proposals were publicly opened and read aloud.

Of the twenty-seven (27) companies that requested copies of the Request for Proposals, three (3) proposals were received (see tabulation below). Of the three (3) proposals received, the proposal of Beary Landscape Management was found to be the lowest responsible bidder and most favorable to the interests of the Commission. Beary Landscape Management is the Commission's current landscape service provider and has provided satisfactory service for the last several years.

Company	Price
Beary Landscape Management, Inc.	\$78,662.00
Makers Maintenance	\$113,430.00
Complete Landscaping, LLC	\$163,740.00

**Base bid price for a three-year contract; excludes unit prices for indeterminate work.*

Recommended Motion: To adopt Resolution No. R-56-23 awarding the contract to the lowest responsible bidder, Beary Landscape Management.

RESOLUTION NO. R-56-23

**A RESOLUTION AWARDING A CONTRACT FOR 36-MONTH
LANDSCAPE MAINTENANCE SERVICES**

WHEREAS, in full compliance with said Statute, the Commission duly advertised for bids for 36-month Landscape Services Contract; and

WHEREAS, based upon staff review of the proposals received, and the staff's recommendation to the Board of Commissioners of the DuPage Water Commission, the Board of Commissioners has determined that the proposal of Beary Landscape Management is the most favorable and in the best interests of the Commission.

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

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

SECTION TWO: The DuPage Water Commission hereby awards a contract for the DuPage Water Commission 36-Month Landscape Maintenance Services to Beary Landscape Management, in accordance with their respective proposal, conditioned upon the receipt of all contractually required documentation.

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.				
Romano, K.				
Rush, K.				
Russo, D.				
Saverino, F.				
Suess, P.				
Van Vooren, D.				
Zay, J.				

ADOPTED THIS ___ DAY OF _____, 2023.

James F. Zay, Chairman

ATTEST:

Danna Mundall, Clerk

Board/Resolutions/2023/R-56-23.docx



Resolution #: R-57-23

Account: 01-60-722300

Approvals: *Author / Manager / Finance / Admin*

JH JML CAP PDM

REQUEST FOR BOARD ACTION

Date: 11/9/2023

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

Agenda Section: Engineering & Construction

Originating Department: Engineering

Resolution No. R-57-23 would approve the following Change Orders:

Change Order No. 4 for the DPPS Emergency Generation System Modifications (Contract PSD-10/22)

Change Order No. 4 would authorize, at a net increase in the Contract Price of \$51,645.01, a time extension of 28 calendar days, and the following changes to the Contract: 1) Various masonry and structural steel modifications (\$38,141.13); 2) Relocation of fire suppression system and compressed air lines to accommodate new HVAC ductwork (\$13,503.88).

With regard to Item 1, the original project design called for the removal of the existing building's parapet walls. However, the plans and specifications for the demolition process were not adequately detailed, and it became necessary to preserve the parapet walls to maintain the existing roofing warranty. This change resulted in several adjustments, including modifications to the steel support for the brick veneer and louvers on the North Wall, adjustments to metal decking, accommodations for a 1" expansion joint between existing and new structures, and alterations to precast panels to align with existing ones. In addition, it was necessary to fill the gaps between the structural steel and CMU, as this requirement was not specified in the plan set.

With regard to Item 2, new HVAC ductwork needs to be installed to provide air conditioning to the equipment room in the Generator Facility. The existing fire suppression system and compressed air lines in the vicinity of this room, were concealed by drywall during the project's design phase, and were not located according to record drawings, creating conflicts with the intended placement of HVAC ductwork for the PSD-10 project. As a result, it's necessary to relocate the compressed air and fire suppression system lines and resize the ductwork.

Approval of this Change Order would increase the net Contract Price by \$51,645.01 revising the Contract Price to \$4,178,826.83 for a 0.72% net increase in Contract Price. Approval of this Change Order would

also extend the contract deadline by 28 days. Approval of this Change Order does not authorize or necessitate a decrease 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.

Recommended Motion:

To approve Resolution R-57-23.

DUPAGE WATER COMMISSION

RESOLUTION NO. R-57-23

A RESOLUTION APPROVING AND RATIFYING CERTAIN CHANGE ORDERS FOR 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.

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.				
Romano, K.				
Rush, K.				
Russo, D.				
Saverino, F.				
Suess, P.				
Van Vooren, D.				
Zay, J.				

ADOPTED THIS _____ DAY OF _____, 2023.

James F. Zay, Chairman

ATTEST:

Danna Mundall, Clerk

EXHIBIT 1

DuPAGE WATER COMMISSION
CHANGE ORDER

SHEET 1 OF 3

PROJECT NAME: PSD-10 DPPS Emergency Generation System Modifications

CHANGE ORDER NO. 04

LOCATION: DuPage County, Illinois

CONTRACT NO. PSD-10/22

CONTRACTOR: Joseph J. Henderson & Son, Inc.

DATE: 11/17/23

I. A. DESCRIPTION OF CHANGES INVOLVED:

1. Various Masonry and Structural Steel Modifications including:

- i. Remove demolition of precast coping.
- ii. Furnish and install continuous L5"x5"x3/8" angle and weld to HSS Beam. Field touch-up wall section 2 at Stair tower north wall door sill.
- iii. Furnish and install bent plate 3/8"x 6"x7" wall section detail 2 at stair tower north wall door sill.
- iv. Furnish and install bent plate under column line B for louver support wall section detail at column B 9.1 detail.
- v. Trim tube steel for 1" clearance with existing building precast along column line A/B and 9.1.
- vi. Trim Steel Deck for 1" clearance with existing building precast.
- vii. Trim new precast panels to fit.
- viii. Fill gaps in structural steel on exterior wall and CMU.

2. Relocate fire suppression system and compressed air lines to accommodate new HVAC ductwork. Repair drywall ceiling as needed for the relocation of these lines. Order resized fire dampers.

B. REASON FOR CHANGE:

1. The original project design called for the removal of the existing building's parapet walls. However, the plans and specifications for the demolition process were not adequately detailed, and it became necessary to preserve the parapet wall to maintain the existing roofing warranty. This change resulted in several adjustments,

including modifications to the steel support for the brick veneer and louvers on the North Wall, adjustments to metal decking, accommodations for a 1" expansion joint between existing and new structures, and alterations to precast panels to align with existing ones. In addition, it was necessary to fill the gaps between the structural steel and CMU, even though this requirement was not specified in the plan set.

2. The existing fire suppression system and compressed air lines were concealed by a drywall ceiling during the project's design phase and were not located according to record drawings, creating conflicts with the intended placement of HVAC ductwork for the PSD-10 project. As a result, it's necessary to relocate the compressed air and fire suppression system lines and resize the ductwork.

C. REVISION IN CONTRACT PRICE:

<u>Item</u>	<u>Description</u>	<u>Extension</u>	<u>Time Extension</u>
1	Various Masonry and Structural Steel Modifications	\$38,141.13	28 Days
2	Ductwork Conflicts	\$13,503.88	0 Days
Total Increase		\$51,645.01	28 Days

II. CHANGE ORDER CONDITIONS:

1. The Contract Period established in the Contract, as signed or as modified by previous Change Orders, is hereby extended for 28 calendar days, modifying the final Contract Completion Date to May 22, 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 <u>Reduction</u> due to all previous Change Orders	\$21,818.18
3.	Contract Price, not including this Change Order	\$4,127,181.82
4.	<u>Increase</u> to Contract Price due to this Change Order	\$51,645.01
5.	Contract Price including this Change Order	\$4,178,826.83

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: _____ ()
Signature of Authorized Representative Date



Resolution #: R-58-23

Account: 10-60-772500

Approvals: *Author / Manager / Finance / Admin*

PDM - CAP PDM

REQUEST FOR BOARD ACTION

Date: 11/6/2023

Description: **Recommendation to authorize Master Services Agreement Task Order #3 with Carollo Engineering, Inc, for Alternative Source Water Project professional engineering services**

Agenda Section: Engineering & Construction

Originating Department: Administration

An Alternative Source Water Study was completed in April 2023 at which time a presentation was made to the DWC Board of Commissioners. The report indicated that it is technically feasible and financially viable to construct a new source water system which would be owned and operated by DWC and potentially include other suburban partners. The initial study identified the “North” route as likely most preferable and recommended that following activities include engagement with other regional water wholesalers to determine if a partnership would be possible; through which the source water infrastructure could be expanded to include other suburban water agencies - essentially replacing the commodity service currently provided by Chicago. A partnership/expansion would increase the scale of the project, but the cost would be shared by more consumers, likely resulting in lower water rates when compared with DWC acting alone.

DWC therefore began engaging the Northwest Suburban Municipal Joint Action Water Agency (NSMJAWA) and the Northwest Water Commission (NWC), and both agencies expressed a desire to participate in further consideration of a source water project. DWC then directed consulting engineering firm, Carollo Inc, to update the report to evaluate the “North” route to identify impacts of a larger regional system. The draft update report has now been completed, and a draft financial validation study and strategy document has been prepared by Raftelis, Inc; additionally, an engineering validation study is underway by engineering firm Burns & McDonnell.

The preliminary results of these studies were presented to the DWC Board of Commissioners at the October 19, 2023 Board meeting, at which time details were provided relative to project scope, cost, schedule, and financial implications - including the projected rate impacts. At that time, the Board determined that it is in the best interest of the Commission to extend our current Water Supply

Contract with the City of Chicago for a period of 15-20 years, depending upon the most likely completion date for a new source water project.

DWC Customers are currently processing resolutions which will enable DWC to formally act on the Chicago Source Water Project extension before the termination of the existing contract (March 19, 2024). During the course of the next four months, the consulting team comprised of Carollo Engineering, Raftelis Financial, and Burns & McDonnell Engineering will be refining prospective cost and schedule data relative to the project, which will ultimately inform the Board of Commissioners as to the most advantageous extension period. This work will be completed, and a recommendation will be presented to the Board of Commissioners at the February 2024 meeting. Activities associated with the validation process were not included in Carollo's original contract for the study, therefore a separate Task Order is now presented for that purpose.

Recommended Motion:

It is recommended that Task Order #3 under the existing Master Services Agreement with Carollo Engineers, be authorized for professional engineering services associated with validation of the Alternative Source Water Project, in an amount not to exceed \$50,000.

DUPAGE WATER COMMISSION

RESOLUTION NO. R-58-23

A RESOLUTION

AUTHORIZING TASK ORDER #3 UNDER A MASTER SERVICES AGREEMENT WITH CAROLLO ENGINEERING,
FOR PROFESSIONAL SERVICES RELATED TO THE ALTERNATIVE SOURCE WATER PROJECT

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

WHEREAS, Carollo Engineering has prepared an Engineering Study which concludes that it is
technically feasible and financially viable to construct a new source water system for the DuPage Water
Commission and potentially other regional partners; and

WHEREAS, a validation study is currently being performed by third-party consultants Raftelis
Financial and Burns & McDonnell relative to the technical and financial merits of the project, and which
will identify issues and opportunities which will require collaboration, discussion, and ultimately conclusion
by the larger consulting team; and

WHEREAS, activities associated with the validation effort were not included in the initial study
scope for Carollo Engineering, but which engagement will be critical for collaborative and thorough review
and the presentation of meaningful and complete data;

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

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

SECTION TWO: Task Order #3 between the DuPage Water Commission and Carollo Engineering, Inc. for Consulting Services, in substantially the form attached hereto and by this reference incorporated herein and made a part hereof as Exhibit 1, with such modifications as may be required or approved by the General Manager of the Commission, shall be and it hereby is approved. The General Manager shall be and hereby is authorized and directed to execute the Consulting agreement in substantially the form attached hereto as Exhibit 1.

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.				
Romano, K.				
Rush, K.				
Russo, D.				
Saverino, F.				
Suess, P.				
Van Vooren, D.				
Zay, J.				

ADOPTED THIS ___ DAY OF _____, 2023.

James F. Zay, Chairman

ATTEST:

Danna Mundall, Clerk

Board/Resolutions/2023/R-58-23.docx

EXHIBIT 1

DELETE PAGE IF NO ATTACHMENT

TASK ORDER NO. 3
DUPAGE WATER COMMISSION
(OWNER)
AND
CAROLLO ENGINEERS, INC.

This Task Order is issued by the OWNER and accepted by ENGINEER pursuant to the mutual promises, covenants and conditions contained in the Agreement between the above named parties dated the 17th day of October, 2023, in connection with:

The Alternative Water Supply System Study
(Project)

PURPOSE

The purpose of this Task Order is to expand Task Order 2 services to include additional engineering services associated with the preliminary evaluations of the Alternative Water Supply System Study. Scope items have been added according to the ENGINEER's Services listed below.

ENGINEER'S SERVICES

The ENGINEER's services consist of the following tasks:

- Respond to the disposition of peer review comments on the Alternative Water Supply System Study Report.
- Perform additional validation of cost estimates and project implementation schedules.
- Prepare alternative project implementation schedules for two additional project delivery methods.
- Update the Alternative Water Supply System Study Report with the revised cost and schedule evaluations and deliver electronic copies of the updated report.
- Attend additional coordination meetings with the OWNER.

TIME OF PERFORMANCE

The ENGINEER shall complete services within 90 calendar days from the authorization to proceed.

PAYMENT

Payment to the ENGINEER for services performed under this Task Order shall be based the ENGINEER's direct labor costs times a factor of 3.10 for all services rendered by principals and employees engaged directly on the Project plus an amount equal to the actual costs of all reimbursable expenses. The not-to-exceed limits of the ENGINEER's services shall be \$50,000.

EFFECTIVE DATE

This Task Order No.3 is effective as of the 16th day of November, 2023.

IN WITNESS WHEREOF, duly authorized representatives of the OWNER and of the ENGINEER have executed this Task Order No. 3 evidencing its issuance by OWNER and acceptance by ENGINEER.

CAROLLO ENGINEERS, INC.

OWNER

Accepted this 16th day of November, 2023

By: _____
Mike Morris
Vice President

By: _____
Officer

By: _____
Lindsey Busch
Associate Vice President



Resolution #: R-60-23

Account: 01-60-771700

Approvals: *Author / Manager / Finance / Admin*

DC RCB CAP PDM

REQUEST FOR BOARD ACTION

Date: 11/7/2023

Description: **A Resolution Suspending Purchasing Procedures and Approving the Services of HSQ Technologies to Provide SCADA Integration Support with the Caterpillar Generator Controls System Upgrade**

Agenda Section: Engineering & Construction

Originating Department: Operations & Instrumentation

The Commission is undergoing an upgrade to the Emergency Generator Control System that will affect the existing collection of electrical and generator data that is displayed on the existing Supervisory Control and Data Acquisition (SCADA) system. The Generator Controls upgrade entails a new control system infrastructure that utilizes a different communication protocol than currently exists between the Generator system and the SCADA system. In anticipation of this upgrade, we have coordinated with our sole-source SCADA vendor, HSQ Technologies, to provide services to assist us with the integration of the new Generator Controls to maintain the existing data on SCADA.

HSQ Technologies provided a quote for the services to integrate data from the new Generator Controls system with the existing SCADA system, which comes to a cost of \$24,954.00. The scope of services includes the following:

- The installation of Modbus TCP/IP communication protocol for Generator PLC integration
- Modification of the existing point addresses from GE to Modbus TCP/IP
- Reconfiguration of the terminal server polling the power meter over DNP3 protocol
- Verify the DNP3 mapping for the existing point addresses
- Reboot the SCADA system to implement the new programming
- Point map and test 200 existing data points collected from the Generator systems
- Work with the Generator PLC programmer to test and verify all converted points

Recommended Motion: To approve Resolution No. R-60-23

DUPAGE WATER COMMISSION

RESOLUTION NO. R-60-23

A RESOLUTION SUSPENDING THE PURCHASING PROCEDURES
AND APPROVING THE SERVICES OF HSQ TECHNOLOGIES TO PROVIDE SCADA INTEGRATION
SUPPORT WITH THE NEW GENERATOR CONTROLS SYSTEM UPGRADE

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

WHEREAS, the DuPage Water Commission received a price quotation from HSQ Technologies, dated November 7, 2023, in the amount of \$24,954.00 for support services integrating data from the new Generator Control system with the existing SCADA system as requested by Commission staff; and

WHEREAS, based upon the representations of staff, the Board of Commissioners of the DuPage Water Commission has determined that the proposal of HSQ Technologies is favorable to the interests of the Commission;

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 as if fully set forth.

SECTION TWO: The DuPage Water Commission hereby authorizes support services integrating data from the new Generator Control system with the existing SCADA system from HSQ Technologies, for the price set forth in Its Proposal, but not to exceed \$24,954.00.

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.				
Romano, K.				
Rush, K.				
Russo, D.				
Saverino, F.				
Suess, P.				
Van Vooren, D.				
Zay, J.				

ADOPTED THIS ___ DAY OF _____, 2023.

James F. Zay, Chairman

ATTEST:

Danna Mundall, Clerk
Board/Resolutions/2023/R-60-23.docx

EXHIBIT 1



HSQ Tech Inc. 26227 Research Road
Hayward, California 94545-3725
Phone: (510) 259-1334
Fax: (510) 259-1392
www.hsq.com

By Email: cuvalo@dpwc.org

November 7, 2023

DuPage Water Commission
600 East Butterfield Road
Elmhurst, IL 60126

Attention: Denis Cuvalo

**Reference: Install Modbus TCP/IP Protocol for Generator PLC
DuPage Water Commission
HSQ Quotation No. 2310-0008-GJ-A**

Mr. Cuvalo:

HSQ Technology is pleased to offer you a quotation for installing Modbus TCP/IP protocol for the Generator PLC. This will include modifying existing point addresses and conducting point testing of up to 200 power points. A system reboot will be required. All work will be performed remotely, therefore, remote access to the HSQ SCADA system is required. The Generator PLC programmer needs to be on site during joint point testing.

Work Included:

- Programming and Configuration
 - Install MODBUS TCP/IP protocol for Generator PLC and modify existing point addresses
 - Reconfigure terminal server (lines) for polling power meters over DNP3 protocol
 - Verify DNP3 profile for existing point addresses
 - System reboot required to implement new program
- Point test remotely up to 200 existing power meters points
 - HSQ to Log-In Remotely to SCADA to test power points with Generator PLC Programmer
 - Generator/Meter representative is required to be on site during point testing to support HSQ remote testing
 - Requires Remote Access to SCADA system to perform this work
- Engineering Documentation
 - Update system block diagram

BUILDING THE TECHNOLOGY THAT DRIVES SMARTER SYSTEMS

An Equal Opportunity Employer

California Contractor's License 378393

M:\2-CUSTOMER DIRECTORY\1DUP - Dupage\Dupage - 2310-0008-GJ - Install Modbus TCP/IP Protocol For Generator PLC\Dupage - 2310-0008-GJ-A-Modbus TCP/IP Protocol.Docx

DuPage Water Commission
HSQ Quotation No. 2310-0008-GJ-A
Attention: Denis Cuvalo
Page 2
November 7, 2023

Excluded:

- Any materials or parts
- On-site visits, installation and on-site startup
- Submittals
- SCADA slide modifications
- Sales Tax

The lump sum for the above scope is **\$24,954.00** and is valid for a period of ninety (90) days. The scope of work can be delivered within one hundred and twenty (120) days upon receipt of order.

If you have any questions, please call the undersigned at (800) 486-6684 or email at est@hsq.com.

Sincerely yours,



Gus Jimenez
Vice President
Chief Operations Officer (COO)

GJ/ks



HSQ Tech INC.
26227 Research Road
Hayward, Ca. 94545
Phone: 510-259-3713 (Direct)
Cell: 925-209-8580
Email: jimenez@hsq.com
<http://www.hsq.com>