



Memo

File #: TMP-4246

Agenda Date: 8/15/2022

TO: Mayor and City Council

FROM: James V. Capparelli, City Manager

SUBJECT:

Award of Professional Services Agreement for the 2024 Water System Rehabilitation Program to Baxter & Woodman Inc. in the amount of \$742,300.00

BACKGROUND:

On January 5, 2021, the Mayor and City Council approved Resolution 7613, committing to water conservation through the reduction of non-revenue water to comply with the allocation requirements of the Level of Lake Michigan Act, 615 ILCS 50, and the corresponding State regulations. A condition of the City's Lake Michigan water allocation permit is completion of the City's Non-Revenue Water Reduction Plan. A major component of this Plan is water main replacement. The water main replacement, estimated at approximately 3% per year, must be sufficient to achieve the reduction of non-revenue water from the City's water system to not more than 10 percent by the year 2030. The previous goal was water main replacement of 1% annually.

The City prepared a plan to increase water main replacement to 3% per year for 2022 - 2030, however the 2024 program is increased in scope to 5% after discussions with the Illinois Department of Natural Resources (IDNR.) The IDNR manages Joliet's Lake Michigan Water Allocation and manages the Lake Michigan allocation for all the other 200+ Illinois communities that receive Lake Michigan water. IDNR requires annual submittal of a Non-Revenue Water Audit which provides an analysis of what percentage of a community's water is not accounted for (essentially a detailed "pumped vs. billed" analysis.) Upon review of the City's water year 2022 it was decided to increase the quantity of water main replacement in 2024 and 2025. Accordingly, the 2024 water main replacement program will be a total length of approximately 32.5 miles.

In order to have contract documents ready to bid in time for the 2024 construction season, plans for the 2024 Water System Rehabilitation Program need to begin preparation at this time. Projects to be included in the 2024 program are identified in the below table. The estimated construction cost for the projects is \$57,600,000.00 and will be funded using state and federal low interest loan programs.

Project Name	Project Limits	Feet	Miles
Black Road Acres Phase 2	Bevan Dr (Douglas to E Bevan Dr end); Ann (Black to Mason, 614 Ann to Douglas); Ann Ct; Donna (Black to Mason); side yard (Madison to Bevan); Arden and Mason (Ann to Donna); Douglas (Madison to east of Bevan); Mayfield (Bevan to Bevan)	8,600	1.63
Bridal Wreath Acres	Cypress Ln; Hollyberry Dr; Brentwood Dr; Pearson Dr; Lilac Ln; Mac Farlane Dr; Orchard Ln; Birchwood Ln; George Ave (Cypress to Lilac)	14,100	2.67
Cathedral Area Phase 1	William, Prairie, and Raynor (Glenwood to Campbell); Whittier (Glenwood to Western); Buell and Western (William to Wilcox)	8,400	1.59
Center and Western	Center (Plainfield to Campbell); Pine and Broadway (Division to Oneida); Western (Center to Bluff)	7,050	1.34
Fairway	Fairlane (Glenwood to Campbell); N Star (Inwood to Fairway); Barney (Glenwood to Jefferson); Caddy Ln; Inwood (Fairway to Barney); Swing Ct; Putter Ct; Glenwood (Infantry to St Joe's); loop for TJ school; White Birch Lane;	14,850	2.81
Forest Park Phase 3	Antram (Woodruff to dead end); Holmes (Woodruff to dead end); Cutter (Woodruff to Fairchild); Gould; Clark (Demmond to Woodruff); Hague (Demmond to Woodruff); Gage (Demmond to Wisconsin); Demmond (Gould to Gage); Demmond Ct; Woodruff (Cutter to McKay); Ada (Cutter to east end); Wisconsin (Cutter to Gage); Fairchild (Cutter to Clark); connection between Antram and Cutter	14,600	2.77
Garnsey Park Phase 5	Raynor (Ingalls to Ruby); Hickory (Russell to Moran); Summit (Ingalls to Moran); Russell (Elizabeth to Broadway); Frank; Hutchinson (Elizabeth to Broadway); Moran (Raynor to Broadway)	13,200	2.50
Idylside	Emery, Morris, and Margaret (Jefferson to McDonough); Stryker (Jefferson to 503 Stryker); Allen (Emery to Stryker)	12,700	2.41

Project Name	Project Limits	Feet	Miles
Krings Acres Phase 2	Winthrop, Westminster and Alann (Ingalls to Black); Krings and Plaza (Clara to Black); Clara (Alann to Krings); Dellmar (Larkin to Westshire)	14,400	2.73
Plainfield Road (Theodore to Black)	Plainfield (Theodore to Black)	9,350	1.77
Spring Creek Phase 1	Garnsey, Landau, and Henderson (Ward to Jackson); Abe (end to Jackson); Ward (Garnsey to Henderson); Elwood (Landau to Abe); Columbia (Garnsey to Abe); Ohio (west of Creek to Landau); Jackson (Garnsey to Soland Ct); dead end on CN driveway	14,600	2.77
Twin Oaks Phase 1	Essington (Oakwood to Glenwood); Meadowwood (north of Indianwood); Oakwood; Wild Oaks Ct; Dogwood Ct; Aspen Ct; Burr Oaks Dr; Burr Oaks Ct; Ponderosa Pl; Indianwood Ln	8,500	1.61
Vernado Park	Water and Des Plaines (McDonough to Lucas); Joliet and Ottawa (McDonough to Shelby); Munroe (dead end to Ottawa); Jasper (Water to Joliet); Shelby (dead end to Water, Des Plaines to Joliet); Sheridan (dead end to Water)	8,465	1.60
West Park	Davis and Central (Kinsey to Lakeview); Betula (Kinsey to dead end); Park Front (Kinsey to Oakley); Oakley (Park Front to Bellevue); Wheeler (Woods to Bellevue); Kinsey (Midland to Park Front); Lakeview (Davis to Betula); Bellevue (Oakley to Wheeler); Croghan (Wheeler to Woods)	9,000	1.70
Woodland Phase 1	Wilson (2nd to 4th); Baker (2nd to Whitley, 3rd to 4th); Hobbs (2nd to 4th); Rowell (2nd to Grant); 2nd (Iowa to Arizona); Whitley, 3rd, Grant (Wilson to Rowell); 4th (Richards to Wilson)	14,100	2.67
Total =		171,915	32.56

A qualifications-based selection is required to insure reimbursement for engineering fees from potential loan funding. In Fall 2021 the City published a Request for Qualifications for water system rehabilitation for the 2023 - 2030 water main replacement program. Ten (10) qualifications were received, four (4) firms were interviewed, and the selection committee consisting of staff from both the public utilities and public works departments identified Baxter & Woodman Inc. as the most qualified firm to complete design and construction engineering services for the program. Baxter & Woodman Inc. successfully completed the City's 2017 - 2022 water main replacement projects. Baxter & Woodman Inc. was requested to provide a proposal for design engineering of the 2024 construction projects. Due to the economy of scale that this large quantity of design work includes, our negotiations with Baxter & Woodman included lowering the standard billing rates to a 3.0 multiplier for design work, and to a further reduced survey rate, which will save the City over 10% compared to standard billing rates. The Public Service Committee will review this matter.

CONCLUSION:

Baxter & Woodman Inc. has provided a proposal to complete preliminary design engineering for the 2024 Water System Rehabilitation Program. The Professional Services Agreement for the project, for an amount not to exceed \$742,300.00, represents the cost of surveying, survey breakdown, preparing CAD base sheets, and utility coordination for 15 projects. This fee is approximately 1.3% of the construction costs which is within industry standards for a project of this magnitude. As this preliminary design phase of the project is completed, and the scope of the detailed design is determined, a proposal to complete detailed design and bidding services will be provided as an amendment to this contract.

Section 2-438 of the City of Joliet Code of Ordinance states that purchases over \$25,000.00 may be awarded without written specifications under certain circumstances. Two (2) of these circumstances apply:

- (f) Purchases when authorized by a concurring vote of two-thirds (2/3) of the Mayor and City Council;
- (g) Purchases of professional services.

Funds will be charged to the Water Main Replacement Fund / Professional Services (Org 53880400, Object 557200, \$742,300.00).

RECOMMENDATION:

Based on the above, it is recommended that the Mayor and City Council approve the Professional Services Agreement for the 2024 Water System Rehabilitation Program, in the amount of \$742,300.00, on behalf of Baxter & Woodman Inc.