THE CITY OF WATERTOWN

ENGINEERING DIVISION

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MEMO

TO: Chairperson Wetzel and Commissioners

FROM: Andrew Beyer, P.E.

DATE: January 19, 2023

RE: Public Works Commission Meeting of January 24, 2023

- Update, no action required: Wisconsin Department of Natural Resources (WDNR) Urban Nonpoint Source (UNPS) Construction Grants

BACKGROUND

- Update, no action required: Wisconsin Department of Natural Resources (WDNR) Urban Nonpoint Source (UNPS) Construction Grants

The City of Watertown Engineering Division applied for and was awarded two WDNR UNPS Construction Grants in 2022. A summary and update for each grant can be seen below:

Urban Nonpoint Source & Storm Water Grant Award of $150,000 for Yard Waste Site Stormwater Biofilter:

The Engineering Division applied for and was awarded a Wisconsin Department of Natural Resources (WDNR) Urban Nonpoint Source & Storm Water Grant for $150,000 for the design and construction of a biofilter at the Yard Waste Site. The installation of this biofilter will help the City work toward meeting the Total Maximum Daily Load (TMDL) goals in the Municipal Separate Storm Sewer System (MS4) Permit. This site is located in TMDL Subwatershed No. 30 (the Johnson Creek headwaters); the City is required to reduce Total Suspended Solids (TSS), by 40% and Phosphorus by 27% in this subwatershed. Stormwater runoff from the Yard Waste Site will be directed to a biofilter system to remove TSS, Phosphorus and other pollutants before discharging to nearby wetlands. A biofilter usually resembles a shallow dry pond with native plantings on the surface and engineered soils below that are designed to remove pollutants while allowing water to infiltrate into the ground or to an underdrain that will carry the treated water downstream.

Design is anticipated to start in 2023, with construction to be completed in 2024. The WDNR grant will pay 41.2% of the project up to $150,000. This grant expires at the end of 2024. The grant application was approved by the Finance Committee and submitted to WDNR in April 2022.

Urban Nonpoint Source & Storm Water Grant Award of $49,785 for catch basins in 2023 street project area:

The Engineering Division applied for and was awarded a Wisconsin Department of Natural Resources (WDNR) Urban Nonpoint Source & Storm Water Grant for $49,785 for the installation of deep catch basins in the 2023 street project area. The installation of these catch basins meets the Municipal Separate Storm Sewer System (MS4) Permit requirement to consider and implement environmentally sustainable water quality treatment systems where possible on municipal projects (MS4 Permit Section 2.6.8) and will also help the City work toward meeting the Total Maximum Daily Load (TMDL) goals in the MS4 Permit. This site is located in TMDL

Subwatershed No. 29 (the Rock River main stem, south of the lower dam); the City is required to reduce Total Suspended Solids (TSS), by 44% and Phosphorus by 64% as compared to no stormwater treatment in this subwatershed. The catch basins include 36-inch-deep sumps (area between the lowest horizontal pipe in the catch basin and the bottom of the catch basin) that will capture and settle sediment, TSS, Phosphorus and other pollutants from stormwater runoff in the sump, allowing the cleaned stormwater from the S. Washington Street neighborhood to discharge to the Rock River. Street crews will maintain the catch basins by inspecting and removing the accumulated sediment/pollutants and other debris on an annual basis or as needed.

Design is anticipated to start in 2023, with construction to be completed in 2024. The WDNR grant will pay 50% of the project up to $49,785. This grant expires at the end of 2024. The grant application was approved by the Finance Committee and submitted to WDNR in April 2022.

Attachments:

- Site Maps