



DEPARTMENT OF PUBLIC WORKS

Fred Abadi, PhD, PE, Director
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March 18, 2016

Ron Grall, Director
City of Waukesha
Parks, Recreation and Forestry
1900 Aviation Drive
Waukesha, WI 53188

RE: Fox River Storm Water Outfall – Frame Park, North of E Moreland Blvd

Dear Ron:

As a part of the Flood Mitigation program of the City, a new relief storm sewer is being constructed in conjunction with the E Moreland Blvd street reconstruction project this year. Because of the sewer size (66 inch and 54 inch diameter), a new outfall into the Fox River is required and is proposed on City Park land on the north side of E Moreland Blvd.

Originally, the proposed outfall was designed to discharge very close to the river's edge. However, as a part of the DNR review, they have requested we integrate water quality and habitat improvements to the design by drawing back the outfall location from the river and a grading a shallow wide swale to the river's edge. There are several advantages to implementing their request:

1. The DNR has indicated this approach would fall under a General Permit. This would allow us to avoid an Individual Permit which could take several months to secure and would cost in excess of \$2,500 in permit fees for an expedited review.
2. Drawing the outfall back from the river edge reduces the overall cost of construction by approximately \$7,000. This is primarily due to the reduction of 65 feet of 54 inch diameter pipe.
3. The swale area could be planted with native plantings which would meet the DNR goals while also allowing for a more natural looking area with potentially reduced maintenance costs (no mowing required, etc.).

The Department of Public Works recognizes that these storm sewer items placed on City Park land will require periodic maintenance. Accordingly, the Department of Public Works will maintain the storm sewer system, the swale, and any native plantings within the swale. We understand the Parks, Recreation and Forestry Department will continue to mow the remaining turf grass on the parcel to the top of bank limits of the swale where the native plantings begin.

<input checked="" type="checkbox"/> ENGINEERING DIVISION Paul G. Day, PE City Engineer 130 Delafield St Waukesha, WI 53188 262-524-3600 Fax – 262-524-3898	<input type="checkbox"/> MUNICIPAL PARKING SERVICES Patti Cruz Parking Supervisor 241 South St Waukesha, WI 53188 262-524-3622 Fax – 262-650-2573	<input type="checkbox"/> STREETS DIVISION 300 Sentry Dr Waukesha, WI 53186 262-524-3615 Fax – 262-524-3612	<input type="checkbox"/> WASTEWATER TREATMENT PLANT Jeff Harenda WWTP Manager 600 Sentry Dr Waukesha, WI 53186 262-524-3625 Fax – 262-524-3632	<input type="checkbox"/> WAUKESHA METRO TRANSIT Brian Engelking Transit Manager 2311 Badger Dr Waukesha, WI 53188 262-524-3594 Fax – 262-524-3646
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We appreciate the Parks, Recreation and Forestry Department's support in allowing the use of a portion of this property so the Flood Mitigation project can be constructed.

Sincerely,

A handwritten signature in black ink, appearing to read "Fred Abadi", with a stylized flourish at the end.

Fred V. Abadi, PhD, PE
Director