



CITY OF NOVI CITY COUNCIL
JANUARY 6, 2025

SUBJECT: Consideration to Adopt Resolution Consenting to Improvements to Portions of Oakland County's Huron Rouge Sewage Disposal System (HRSDS) and Authorizing Payment to the Oakland County Water Resources Commissioner (WRC) for Same.

SUBMITTING DEPARTMENT: Department of Public Works, Water and Sewer Division

KEY HIGHLIGHTS:

- A sewer interceptor is a large transmission pipe that receives wastewater from other pipes and directs it to a wastewater treatment facility or to another interceptor
- HRSDS Interceptor Sewer is owned by Oakland County, but maintenance, repair, and rehabilitation are funded by Novi
- Sewer is 50+ years old, and inspection identified significant pipe defects
- \$19.3M cost estimate - \$6M WRC Operating Reserves, \$7.3M WRC-issued Bond, \$6M Novi Water & Sewer Fund Reserves

FINANCIAL IMPACT

	FY 2024/25
EXPENDITURE REQUIRED	\$ 6,000,000
BUDGET	
Water & Sewer Fund 592-536.00-976.194	\$ 6,000,000
APPROPRIATION REQUIRED	\$ 0
FUND BALANCE IMPACT	\$ 0

BACKGROUND INFORMATION:

The Huron Rouge Sewage Disposal System (HRSDS) Sewer Interceptor, constructed in 1970, is owned and maintained by the Oakland County Water Resources

Commissioner (WRC). However, since the sewer serves Novi only, the City is by existing contracts responsible for funding all operation and maintenance efforts. The interceptor is the primary receiving sewer for the HRSDS district, which serves the great majority of Novi (south of 12 ½ Mile). The attached map shows the location of the HRSDS sewer and shows portion of the interceptor to be rehabilitated between I-96 and Chattman Street, referred to as the Novi Trunk Extension No. 1.

In 2019 WRC performed a closed-circuit television inspection (CCTV) of the sewer interceptor as part of its SAW Grant activities. This segment was identified as a high priority for rehabilitation, due to the severity of defects and high incidence of failure (identified from the inspection as including gushing/running/weeping infiltration; missing, projecting, and visible aggregate; and surface spalling). In 2022 WRC engaged NTH Consultants, for a proposal to evaluate and recommend a rehabilitation strategy. NTH released its draft report in October 2023. The attached November 15, 2023, final report provides details of the inspection results and rehabilitation recommendations to WRC as a basis for designing the project.

This rehabilitation project as designed includes approximately 16,700 feet of 36-inch diameter concrete pipe and consists of various methods of internal pipelining to restore structural integrity and eliminate leaks. The location of this sewer presents challenges, including environmental sensitivity and alignment adjacent to the railway (and along the Walled Lake Branch of the Middle Rouge), making access difficult. Additionally, significant bypass pumping of existing flow is required to isolate the segments to complete repairs. The project will be difficult and lengthy, but the repair methods are intended to provide a long-life span.

Following a public bidding process, WRC awarded the project to SAK Construction, the sole bidder. As detailed in the attached project estimate, the total cost is estimated to be \$19.3M. WRC will use \$6M from their Operating Fund Reserves. \$7.3M will be bonded by WRC. This Resolution authorizes the remaining and required \$6M to be paid by the City from its Water & Sewer Fund reserves. The City Attorney has reviewed and approved the attached Resolution for the City's payment.

The current schedule for the project anticipates completion in approximately one year, and construction activity is underway now.

RECOMMENDED ACTION: Consideration to Adopt Resolution Consenting to Improvements to Portions of Oakland County's Huron Rouge Sewage Disposal System (HRSDS) and Authorizing Payment to the Oakland County Water Resources Commissioner (WRC) for Same.