

VOKES RELIEF #3 DRAIN
INTRA-COUNTY DRAINAGE BOARD
NOVEMBER 18, 2024
10:45 A.M.
AGENDA

**NOTE: THIS MEETING WILL BE HELD IN PERSON WITH TELECONFERENCE
OPTION FOR PUBLIC**

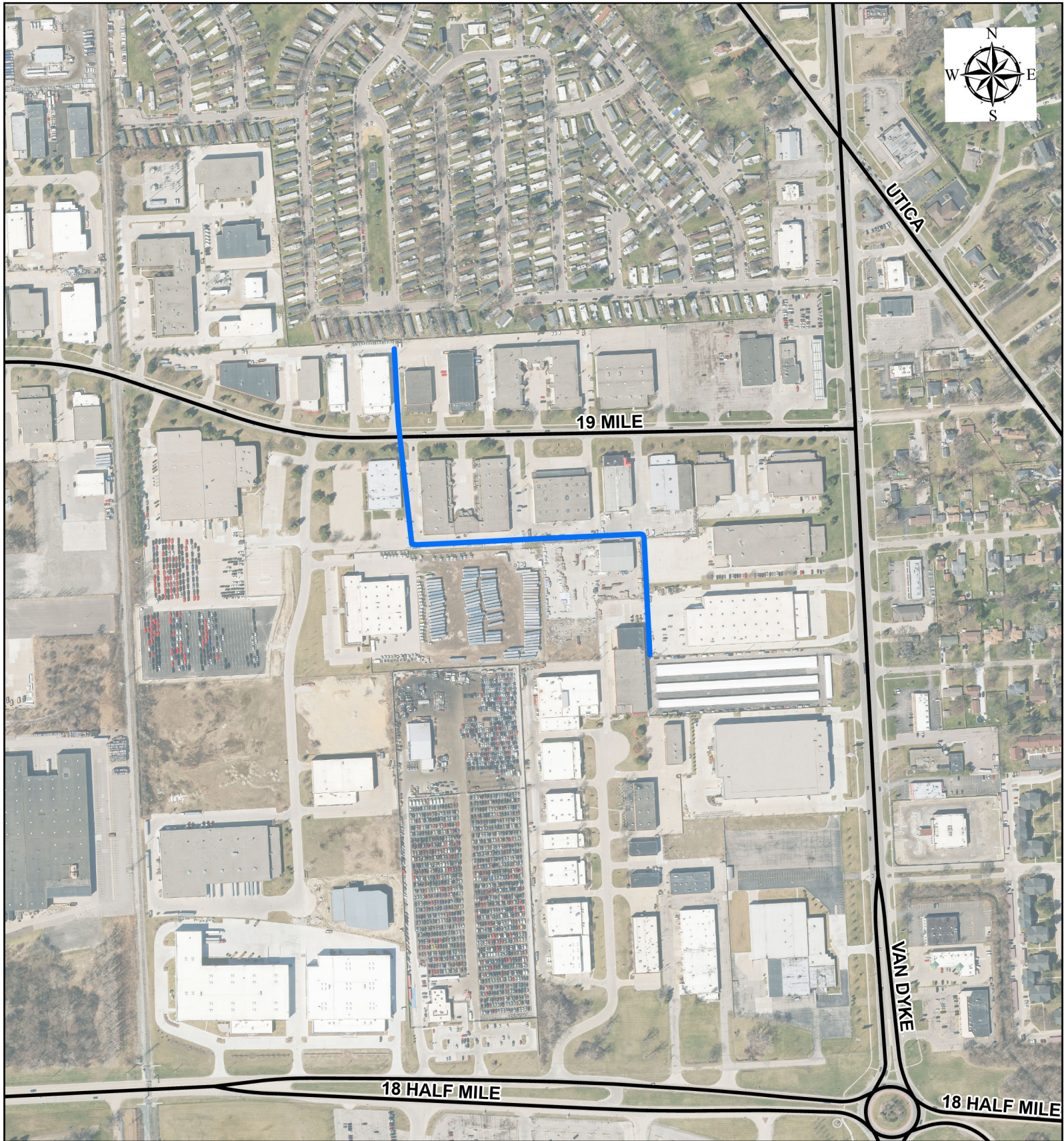
**Teams Meeting ID: 278 423 275 458
Passcode: y6fvQE**

**Call in Number: 1-917-933-5524
Passcode: 577 570 154#**

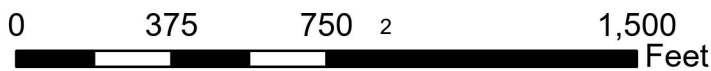
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1. Call of meeting to order and roll call	
2. Approval of Agenda for November 18, 2024	
3. Approval of Minutes for January 14, 1980	3
4. Public Participation	
5. Funds Transfer for Vokes Relief Cleanout Project – Stephen Downing	4
Motion: To authorize the transfer of \$50,000 of Vokes Relief #3 Drain surplus funds to the Vokes Relief drain for the Vokes Relief cleanout project.	
6. Financial Report – Bruce Manning	6
7. Adjourn	

Vokes Relief Branch #3

Enclosed - Sterling Heights



Drain Length (Feet/Miles):
1,988.13 / 0.38



Legend

- Roads
- Drain Subtype
 - $\geq 60''$ Dia
 - $< 60''$ Dia



nk

An adjourned meeting of the Statutory Intra-County Drainage Board for the VOKES RELIEF NO. 3 DRAIN was held in the office of the Macomb County Public Works Commissioner, in the Macomb County Public Works Building, 115 Groesbeck Highway, in the City of Mount Clemens, Michigan, on the 14th day of January, 1980, at 8:30 a.m., Eastern Standard Time.

PRESENT: Richard H. Doherty, P.E., Chief Engineer and
Deputy Public Works Commissioner

Robert VerKuilen, Chairman
Macomb County Board of Commissioners

Willard Back, Chairman of Finance Committee
Macomb County Board of Commissioners

ALSO PRESENT: William Misterovich, Coordinator

The meeting was called to order by the Acting Chairman, Richard H. Doherty, and the minutes of the meeting of October 29, 1979, were approved.

Acting chairman presented the following invoice to the Board for review and approval:

Reimburse County of Macomb for administrative and engineering services provided by the Macomb County Public Works Office general staff during calendar 1978	\$1,366.26
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Motion was made by Mr. VerKuilen, supported by Mr. Back, to approve the invoice as presented.

Ayes: VerKuilen, Back, Doherty

Nays: None

The chairman and the treasurer are hereby authorized to issue a warrant in payment.

There being no further business coming before the Board, the acting chairman declared the meeting adjourned.



RICHARD H. DOHERTY, P.E.,
Chief Engineer & Deputy Public
Works Commissioner



Candice S. Miller

Public Works Commissioner
Macomb County

To: Vokes Relief Drain Drainage District Board Members

CC: FILE

From: Stephen Downing, Construction & Maintenance Manager

Date: November 18, 2024

Subject: Inspection & Cleaning of the Enclosed Section of the Drain

The Board authorized the MCPWO to facilitate an inspection and cleaning of the enclosed portion of the Vokes Relief Drain in May of 2023. At that time the amount of sediment and debris within the pipe was not known. Upon the start of the project, it became clear that there was a significant amount of sediment and debris within the pipe. In fact, the average depth of sediment and debris encountered in the elliptical portion of the Drain was 4-feet which significantly reduced the storage and conveyance capacity of the system. The reduced storage and conveyance capacity resulted in flooding, especially in large wet weather events.

While the original design intent is not known, it appears the main truck of system is to function as a wet system. With little change in elevation between the weir east of Van Dyke and the Clinton River, a shallow, oversized system with a downstream weir provides relief during wet weather and protection during high water in the Clinton River. It is possible that the long-term vision included the enclosure of the Drain to Utica Road or potentially the Clinton River. What is known is that over the past 50 plus years a significant amount of sediment and debris accumulated in the system which required extensive and laborious efforts to clean. Since this is a wet system, the Contractor had to run pumps frequently to lower water levels to allow cleaning to occur and the project was impacted often due to wet weather and snow melt.

The Vokes Drain consists of open and enclosed sections, see attached maps for reference. The enclosed sections of the Drain are located west of Van Dyke between 18 ½ and 19 Mile Roads. The main truck line of the Drain is approximately 3,677 linear feet of large diameter elliptical pipe that comprise sections 1, 2, 4, 5, & 6 and consists of 3,519 linear feet of circular pipe that comprise the three branches 3,7,8, & 9 as shown on the attached map. It is estimated that more than 60% of the system was filled with sediment and debris. The contractor removed approximately 4,000 tons of sediment & debris during this project. The removal of this material will mitigate, if not eliminate, the flooding issues that previously occurred.

This project is eligible for the Macomb County Drain Match Program where the County will match 50% of the cost and the District will be responsible for the other 50%. Doetsch Environmental performed the work on a daily rate basis. The dewatering rate is \$2,300 and the cleaning rate is \$4,600. There was no charge for non-working days or for County Personnel time. The total project cost is \$988,100, with the County matching \$494,050 and the Drain District the other \$494,050 from the Sterling Heights drain accounts in the Table below:

OFFICE LOCATION: 21777 Dunham Road, Clinton Township, Michigan 48036 • Phone: 586-469-5325 • Fax: 586-469-5933

MAILING ADDRESS: P. O. Box 806, Mt. Clemens, Michigan 48046-0806

ENGINEERING • Phone: 586-469-5910 • Fax: 586-469-7693 ♦ **SOIL EROSION** • Phone: 586-469-5327 • Fax 586-307-8264

Drain	Amount
Vokes Relief #1	\$27,400*
Vokes Relief #2	\$187,600
Vokes Relief #3	\$50,000
Busch	\$40,000
Gamble	\$40,000
Shanahan	\$149,050
Total	\$494,050

*Paid in 2023

The recommendation is that the Vokes Relief Drain Drainage District Board approve the total project cost of \$988,100 and subsequent payments to Doetsch Environmental Services.

Attachments: Drain Map
 Drain Map – Enclosed Section
 Pictures

YTD Trial Balance

Fund: Vokes 3

As of Fiscal Period: Oct 1, 2024-Oct 31, 2024

	O&M Balance 9/30/2024	O&M	Total 10/31/2024
Cash - Operating	52,273	49	52,322
Accounts Receivable			0
Assets			0
Liabilities			0
Revenues		49	49
Expenditures			0
Equity	52,273		52,322