

SHANAHAN ENCLOSURE DRAIN  
INTRA-COUNTY DRAINAGE BOARD  
NOVEMBER 18, 2024  
10:45 A.M.  
AGENDA

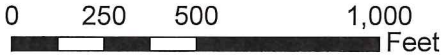
**NOTE: THIS MEETING WILL BE HELD IN PERSON WITH TELECONFERENCE  
OPTION FOR PUBLIC**

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

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

	Page
1. Call of meeting to order and roll call	
2. Approval of Agenda for November 18, 2024	
3. Approval of Minutes for August 7, 2017	3
4. Public Participation	
5. Funds Transfer for Vokes Relief Cleanout Project – Stephen Downing	5
Motion: To authorize the transfer of \$149,050 of Shanahan Enclosure Drain surplus funds to the Vokes Relief drain for the Vokes Relief cleanout project.	
6. Financial Report – Bruce Manning	7
7. Adjourn	

# SHANAHAN DRAIN ENCLOSURE



## Legend

- |  |   |
|--|---|
| <b>Enclosed Gravity</b>                          | <b>Open Channel</b>   |
| <span style="color: red;">—</span> < 60" Dia     | <span style="border: 1px solid blue; border-radius: 5px; display: inline-block; width: 20px; height: 10px;"></span> Ditch |
| <span style="color: blue;">▄▄▄▄</span> ≥ 60" Dia | <span style="border-bottom: 1px dashed blue; display: inline-block; width: 20px;"></span> Pond                            |

An adjourned meeting of the Intra-County Drainage Board for the **SHANAHAN ENCLOSURE DRAIN** was held in the Office of the Macomb County Public Works Commissioner, 21777 Dunham, Clinton Township, Michigan, on August 7, 2017, at 10:37 A.M.

PRESENT: Candice Miller, Chair  
Bryan Santo, Member  
Joseph Romano, Member

ALSO PRESENT: Brian Baker, Chief Deputy, Karen Czernel, Deputy, Keith Graboske, P.E., Chief Engineer, Vincent Astorino, Engineer II, Evans Bantios, Engineer II, Dan Heaton, Public Relations Manager, Anthony Forlini, Operations Manager, Bruce Manning, Financial Manager, Thomas Stockel, Construction Engineer, Barbara Delecke, Administrative Services, Macomb County Public Works; Jared Beaudoin, City of Sterling Heights; David Richmond, P.E., Spalding DeDecker Associates

The meeting was called to order by the Chair, Candice Miller. The agenda was approved as presented.

Minutes of the meeting of July 10, 2017 were presented. The minutes were approved on a motion by Mr. Romano, supported by Mr. Santo and unanimously carried.

The meeting was opened to public participation, then closed, there being no comments from the public.

The Chair presented the invoice totaling \$520.00 to the board for review and approval.

A motion was made by Mr. Romano, supported by Mr. Santo to approve the invoice as presented.

Ayes: Romano, Santo, Miller  
Nays: None

Motion approved.

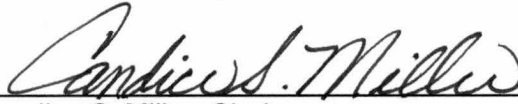
A motion to authorize invoice approval for mowing for the remainder of the 2017 season was made by Mr. Romano, supported by Mr. Santo.

Ayes: Romano, Santo, Miller  
Nays: None

Motion approved.

The financial report given by Mr. Manning was received and filed as submitted.

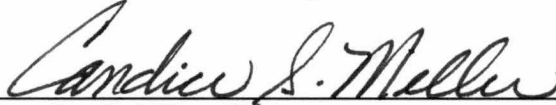
The meeting was adjourned at 10:39 a.m. on a motion by Mr. Romano, seconded by Mr. Santo, and unanimously approved.



\_\_\_\_\_  
Candice S. Miller, Chair  
Macomb County Public Works Commissioner

STATE OF MICHIGAN  
COUNTY OF MACOMB

I certify that the foregoing is a true and correct copy of proceedings taken by the Intra-County Drainage Board for the Drainage District shown on the attached set of minutes, on August 7, 2017, the original of which is on file in the Public Works Commissioner's Office. Public notice of the meeting was given pursuant to Act No. 267, Public Acts of Michigan, 1975, including, in the case of a special or rescheduled meeting or a meeting secured for more than 36 hours, notice by posting at least 18 hours prior to the time set for the meeting.



\_\_\_\_\_  
Candice S. Miller, Chair  
Macomb County Public Works Commissioner

DATED: 8/8/17

8843.bd



**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

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

\*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

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**YTD Trial Balance**

**Fund: Shanahan Enclosure**

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

	<b>O&amp;M Balance 9/30/2024</b>	<b>O&amp;M</b>	<b>Total 10/31/2024</b>
<b>Cash - Operating</b>	157,861	22	157,883
<b>Accounts Receivable</b>			0
<b>Assets</b>			0
<b>Liabilities</b>			0
<b>Revenues</b>		22	22
<b>Expenditures</b>			0
<b>Equity</b>	157,861		157,883