

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

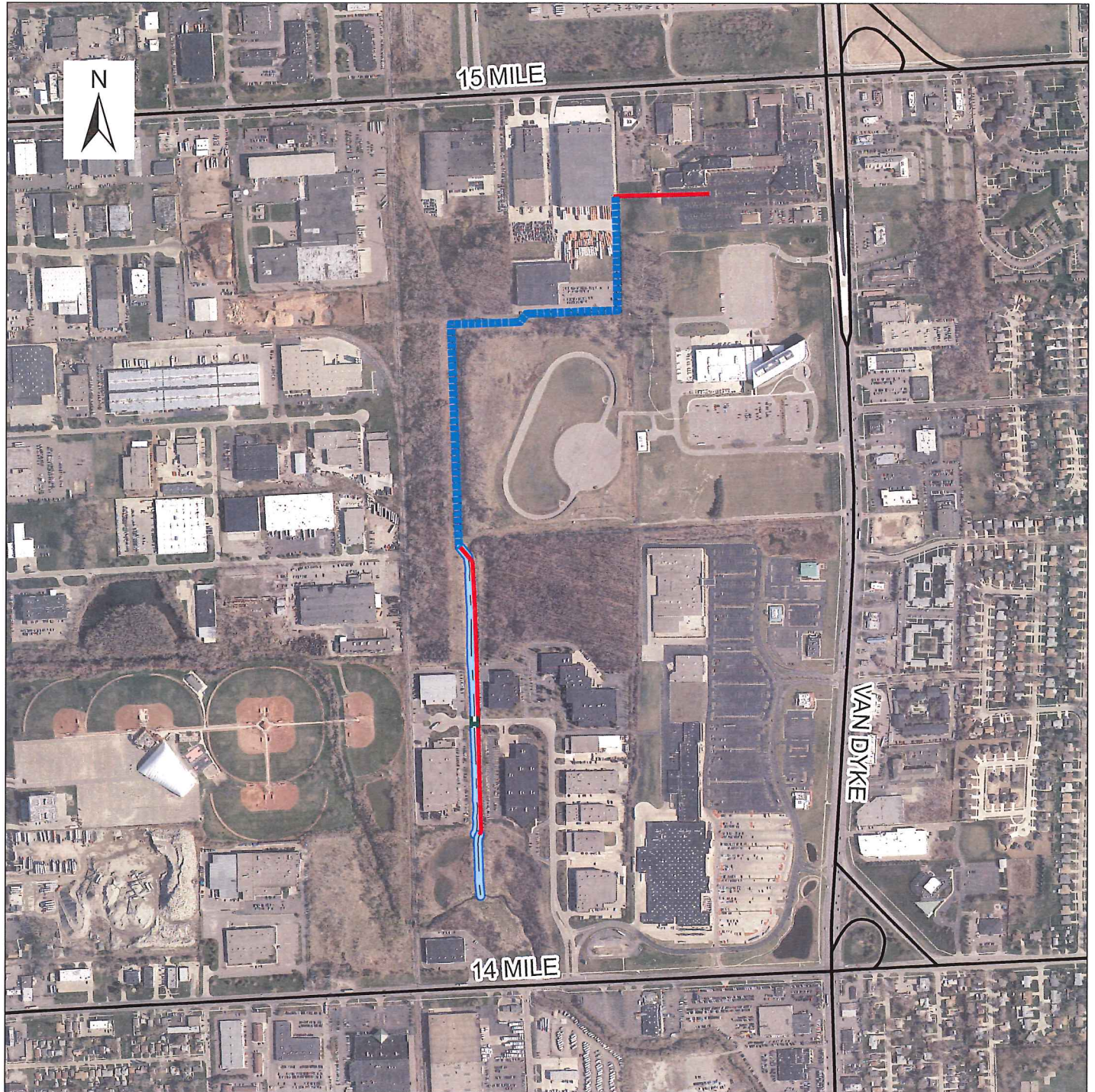
**NOTE: THIS MEETING WILL BE HELD IN PERSON WITH TELECONFERENCE
OPTION FOR PUBLIC**

**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 February 12, 2018	3
4. Public Participation	
5. Funds Transfer for Vokes Relief Cleanout Project – Stephen Downing	5
Motion: To authorize the transfer of \$40,000 of Busch Drain surplus funds to the Vokes Relief drain for the Vokes Relief cleanout project.	
6. Financial Report – Bruce Manning	7
7. Adjourn	

BUSCH DRAIN STERLING HEIGHTS



Legend



Drain Length (Feet/Miles):
5,728.42 / 1.08

- | Enclosed Gravity | Open Channel |
|---|---|
| — < 60" Dia | Ditch |
| ■■■■■ ≥ 60" Dia | — Pond |
| Culvert | |



An adjourned meeting of the Intra-County Drainage Board for the **BUSCH DRAIN** was held in the Office of the Macomb County Public Works Commissioner, 21777 Dunham, Clinton Township, Michigan, on February 12, 2018, at 10:45 A.M.

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

ALSO PRESENT: Robert Leonetti, Robert Mijac, Marvin Sauger, Macomb County Board of Commissioners; Brian Baker, Chief Deputy, Vincent Astorino, Operations & Flow Manager, Evans Bantios, P.E., Construction and Maintenance Manager, Jeff Bednar, Environmental Engineer, Dan Heaton, Public Relations Manager, Bruce Manning, Financial Manager, Tom Stockel, Construction Engineer, Madison Tanghe, Senior Secretary, Macomb County Public Works

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

Minutes of the meeting of December 12, 2017 were presented. A motion was made by Mr. Romano, supported by Mr. Santo to approve the minutes as presented.

Adopted: YEAS: 3
NAYS: 0

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

Mr. Bednar provided the board with a project update. Spalding DeDecker has finished the field inspections and stated that most of the drain is in good condition. However they are taking information retrieved in the field and now doing an engineering assessment.

Ms. Miller stated that Spalding DeDecker was able to capture video on most of the drains. We will probably go to the Sterling Heights City Council and County Board and show them the presentation. If we don't have a lot of work to do in the drains and have excess money, we will want to ask the Council of Sterling Heights to transfer funds to another drain somewhere else in Sterling Heights.

Mr. Bednar stated that, the blue on the map illustrates what has been inspected. The red has not yet been inspected due to the drain being too small in diameter. Since we are under budget, a possibility would be to send a CCTV camera down into the narrow parts of the drain.

A motion was made by Mr. Santo, supported by Mr. Romano to receive and file the project update as presented.

Adopted: YEAS: 3
NAYS: 0

The Chair presented the invoice totaling \$1,055.00 to the board for review and approval.

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

Adopted: YEAS: 3
NAYS: 0

A motion to receive and file the financial report given by Mr. Manning was made by Mr. Romano and supported by Mr. Santo.

Adopted: YEAS: 3
NAYS: 0

There being no further business, it was moved by Mr. Romano, supported by Mr. Santo, that the meeting of the Busch Drain Board be adjourned.

Adopted: YEAS: 3
NAYS: 0

The meeting was adjourned at 10:52 a.m.



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 taking by the Intra-County Drainage Board for the Drainage District shown on the attached set of minutes, on February 12, 2018 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: 2/13/18



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

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YTD Trial Balance

Fund: Busch

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

	O&M Balance 9/30/2024	O&M	Total 10/31/2024
Cash - Operating	44,148	51	44,199
Accounts Receivable			0
Assets			0
Liabilities			0
Revenues		51	51
Expenditures			0
Encumbrance			0
Equity	44,148		44,199

NOTES