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# FALES DRAIN

## Board of Determination

Jonesfield Township Hall

October 24th, 2016

6:30 PM



**Brian J. Wendling**

**Saginaw County Public Works Commissioner**

# MEETING AGENDA

- I. Introduction
- II. Opening of Board of Determination Meeting
- III. Outline of the Board of Determination Procedure
- IV. Inspection Report
- V. Public Testimony - (3 minutes per person.)
- VI. Vote of Board of Determination
- VII. Appeal Procedures and Closing Comments
- VIII. Adjournment

## ROLE OF THE B.O.D.

- The Board of Determination's role is to make two decisions:
  1. Whether the project is necessary
  2. Whether a portion of the cost is to be assessed at-large to the municipalities

## ROLE OF B.O.D. (CONT.)

- The Board of Determination DOES NOT decide:
  - The scope of the project
  - The cost of the project
  - How much property owners and municipalities are assessed for the project

Information on these topics will be made available at a later date. Please see a member of the Public Works Commissioner's staff after the meeting if you have questions.

## PUBLIC COMMENT

- The speaking order will be on a first come, first served basis.
- State your full name and address. Spell your last name for the court reporter.
- Limit comments to 3 minutes.

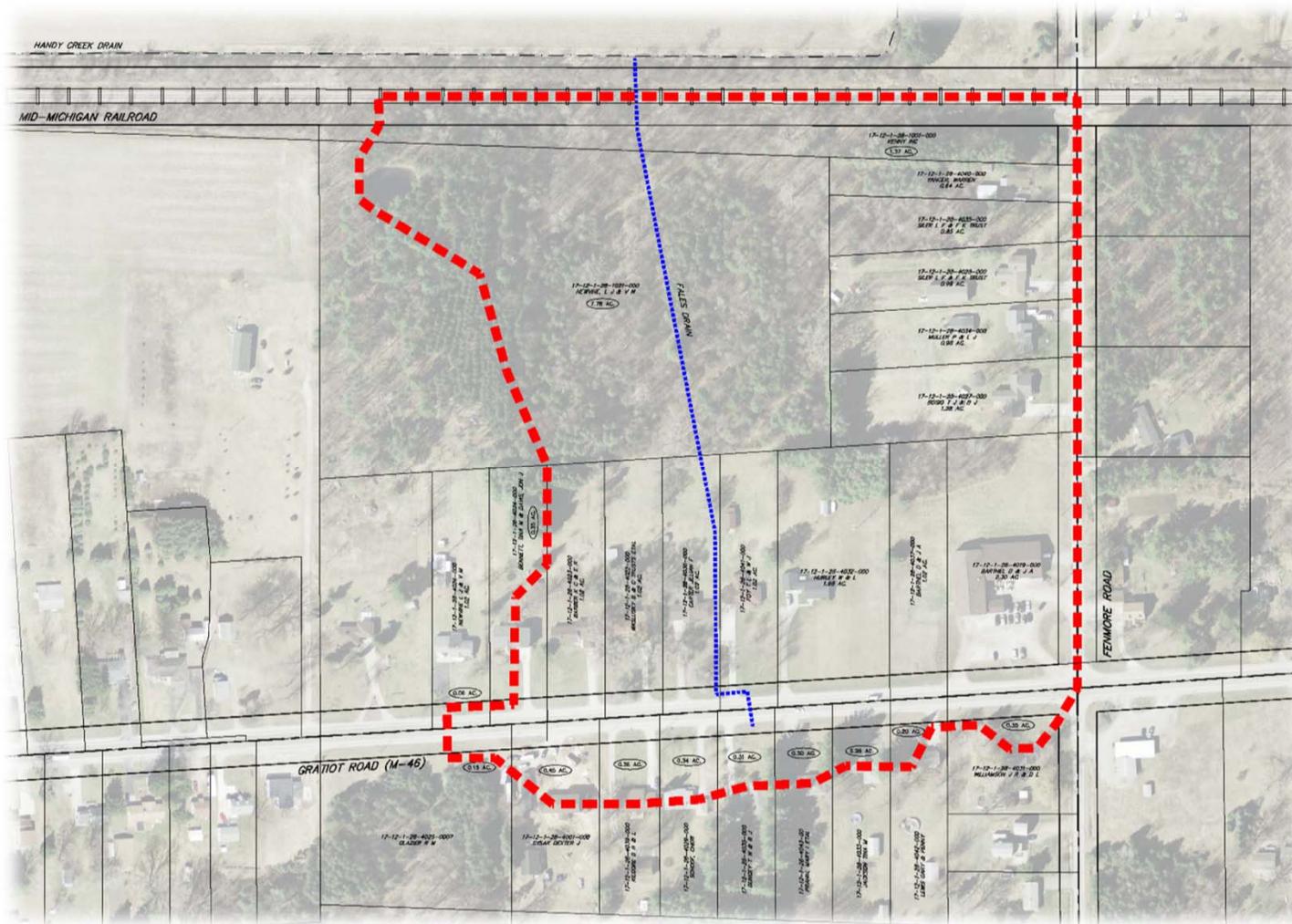
## PUBLIC COMMENT (CONT.)

- Briefly state your position on the petition for the Fales Drain. For example: “I support the petition for the Fales Drain because ...” or “I oppose the petition for the Fales Drain because ...”
- Remember to stay on topic! Comments for tonight’s meeting are limited to the current petition for the Fales Drain only.
- The Public Works Commissioner’s staff will gladly speak with you on other topics after the conclusion of tonight’s meeting.

# DRAIN BACKGROUND

- The Fales Drain was established in 1926
- Where is the Fales Drain?
  - Outlets into Handy Creek and extends southerly to M-46
  - Approximately 0.23 miles long (1,230 feet)
  - Watershed area: 27.8 acres (0.04 sq. miles)
- What is the drainage district?
  - Lands that contributes storm water to drain
  - Drainage District serves as the special assessment district
  - Fales Drain Drainage District includes:
    - Jonesfield Township
    - M.D.O.T.
    - Mid-Michigan Railroad
    - Saginaw County
    - Landowners – Approximately 25 parcels

# DRAINAGE DISTRICT MAP



## DRAIN HISTORY

### ■ Petitioned in 2010

- Project was designed to be a complete replacement of the existing tile and found to be cost prohibitive by the previous drain commissioner due to cost of running a new tile under the railroad
- Repairs to existing tile were completed in an effort to alleviate problems
- \$20,000 was assessed spread over 5 years starting in 2011 pay for expenses incurred for this petition

### ■ Petitioned in 2016

- Project scope has been modified to reduce costs by converting the portion of the tile drain through wooded to an open ditch and utilizing the existing casing under the railroad as a culvert

## SUMMARY OF DRAIN FINANCES

- Drain account is currently \$7,900 in debt
- Approximately \$9,200 was spent on maintenance this year
  - Repairs to existing tile
  - Cleaning and video inspection of existing tile

# DRAIN INSPECTION

- On May 24, 2016 a video inspection of the Drain was completed as a result of the petition filed with the Public Works Commissioner. The following was observed:
  - Joint offsets and separation
  - Tile does not have positive grade
  - Large root obstructions
  - Large sand deposits
  - Tile is composed of many different types and sizes of pipe and has undergone several repairs

NEAR RAILROAD CROSSING

Incident Code: J0  
Incident Description: Joint Offset  
Feet: 0002.0  
Severity: 2  
Position: 1 to 5  
Joint Number: J

Joint Offset

05/24/16

02:46p

## WOODED AREA JUST SOUTH OF RAILROAD

Incident Code: R  
Incident Description: Roots  
Feet: 0004.0  
Severity: 3  
Position: 10 to 2  
Joint Number: J

Root Obstructions

5/24/16 02:46p

Between Rear Lot Catch Basin and Railroad

Incident Code: SA  
Incident Description: Survey  
Abandoned  
Feet: 0502.2  
Comments: CANNOT GET PASSED SAND  
IN PIPE

Sand Obstruction

05/24/16 12:39P

Residential Property near M-46

Incident Code: C  
Incident Description: Crack  
Feet: 0148.8  
Severity: 2  
Position: 10

Pipe Cracking

05/24/16 12:39P

Residential Property Near M-46

Incident Code: J0  
Incident Description: Joint Offset  
Feet: 0115.3  
Severity: 2  
Joint Number: J

Joint Offset

05/24/16 12:39p

## DRAIN INSPECTION RECAP

- Portions of tile are obstructed by roots and sand
- Cracks present in tile throughout drain.
- Joint offsets exist throughout drain.
- Tile does not have positive grade

## POTENTIAL IMPROVEMENTS

- Replace existing tile in railroad right-of-way
  - Utilize existing iron pipe under railroad tracks to reduce costs
- Convert 400 +/- feet existing tile drain through wooded area just south of railroad tracks to an open ditch
- Replace remaining tile with new 12-inch tile up to the north side of M-46

# PRELIMINARY COST ESTIMATE

Estimated Approximate Total Cost = \$122,000

■ Includes:

- Previously Incurred Debts
- Construction Costs
- Engineering Fees
- Administration Fees
- Legal Fees
- Permitting Fees
- Contingency

## PRELIMINARY COST ESTIMATE

Estimated Approximate Total Cost = \$122,000

■ Jonesfield Township (15%) = \$ 18,300 +/-

■ Saginaw County (10%) = \$ 12,200+/-

■ MDOT (17%) = \$ 20,700 +/-

■ Railroad (8%) = \$ 9,800 +/-

■ Land Owners (50%) = \$ 61,000 +/-

■ 25 Parcels

- **Actual cost to be provided based upon construction bids.**



## POTENTIAL PROJECT SCHEDULE

- Open Bids End of November 2016
- Begin Tree Clearing February 2017
- Drain Construction Spring 2017 as weather allows
- Final Restoration Spring/Summer 2017

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