

Sanderson Drain

Board of Determination

Bridgeport Charter Township Hall

September 5, 2019

6:00 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 one decision:
 1. Whether the project is necessary

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. Petitioner will have a chance to speak first.

- State your full name and address. Spell your last name for the court reporter.
- Limit comments to 3 minutes.

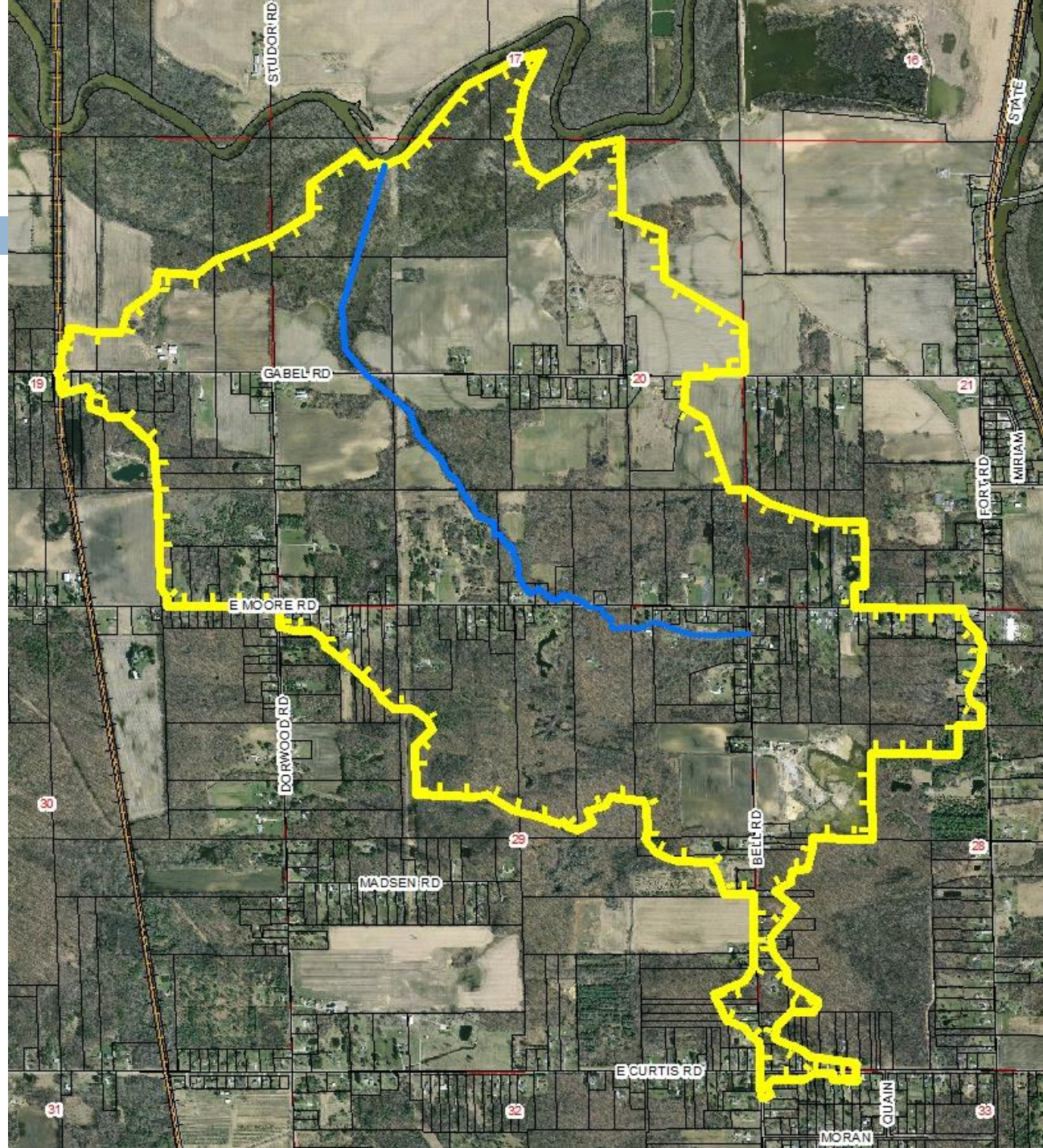
Public Comment (cont.)

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

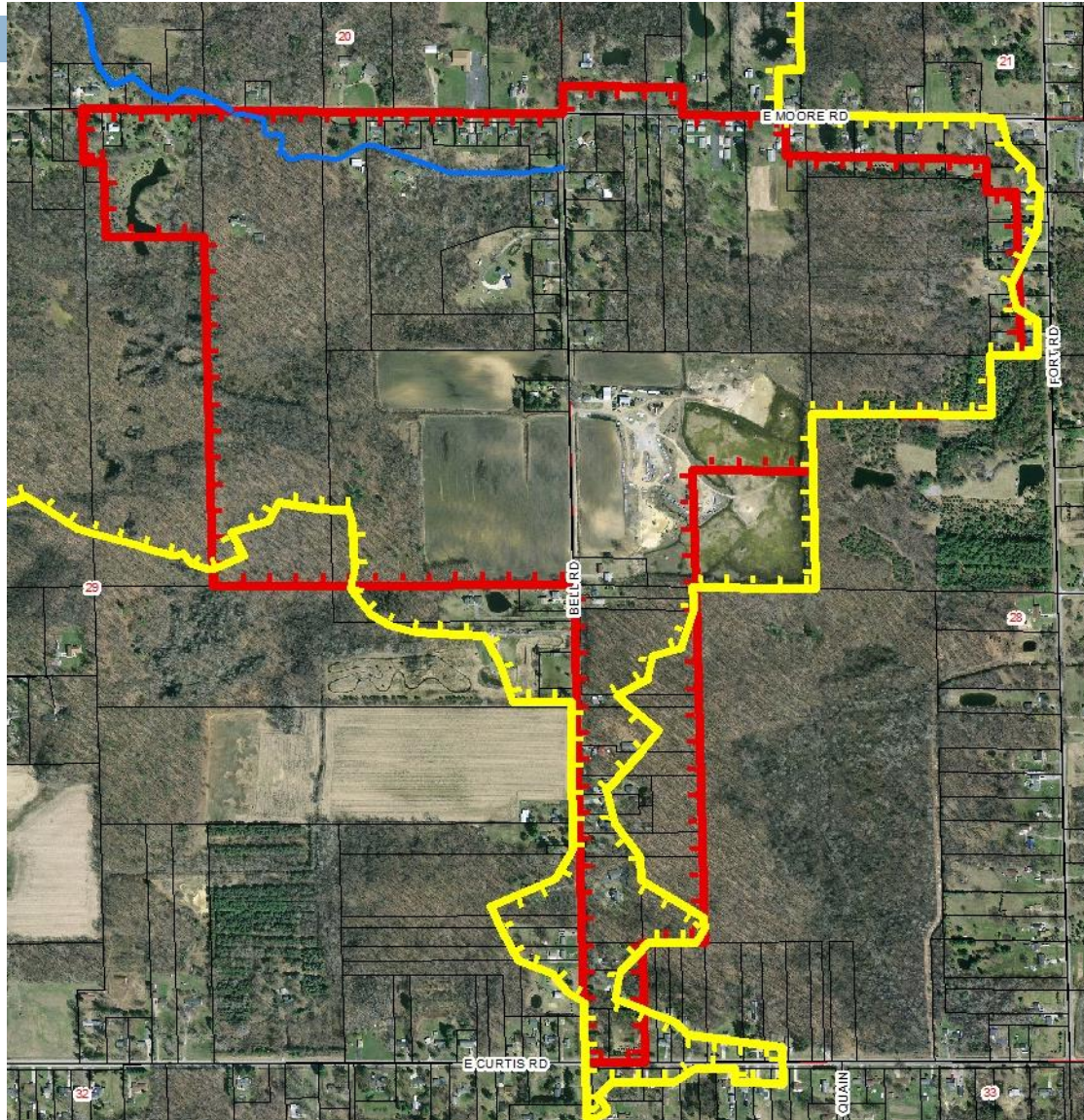
Drain Facts

- Where is the Sanderson Drain?
 - ▣ See Map – Draft Drainage District Boundary
 - ▣ Approximately 8,560 feet long (1.6 miles)
 - ▣ Watershed area: Approximately 1,139 acres
- What is the drainage district?
 - ▣ Lands that contributes storm water to drain
 - ▣ Drainage District serves as the special assessment district
 - ▣ Sanderson Drain Drainage District includes:
 - Bridgeport Charter Township
 - Saginaw County
 - Landowners – Approximately 210 parcels

Drainage District Map



Historical Drainage District Map



Drain Facts Continued

- Sanderson Drain was established as a county drain in 1981. The drain was cleaned out/constructed via petition in 1984. When it was constructed, there were 2 sections of 8-inch diameter tile installed, with a smaller ditch above the pipe. In these areas, the tile acts as conduit to take smaller flows (low flow), while higher flows are to go through both the pipe and the ditch above the pipe.
- Maintenance completed in November 2014 to remove headwall and fix sink hole at 2760 E Moore Rd.

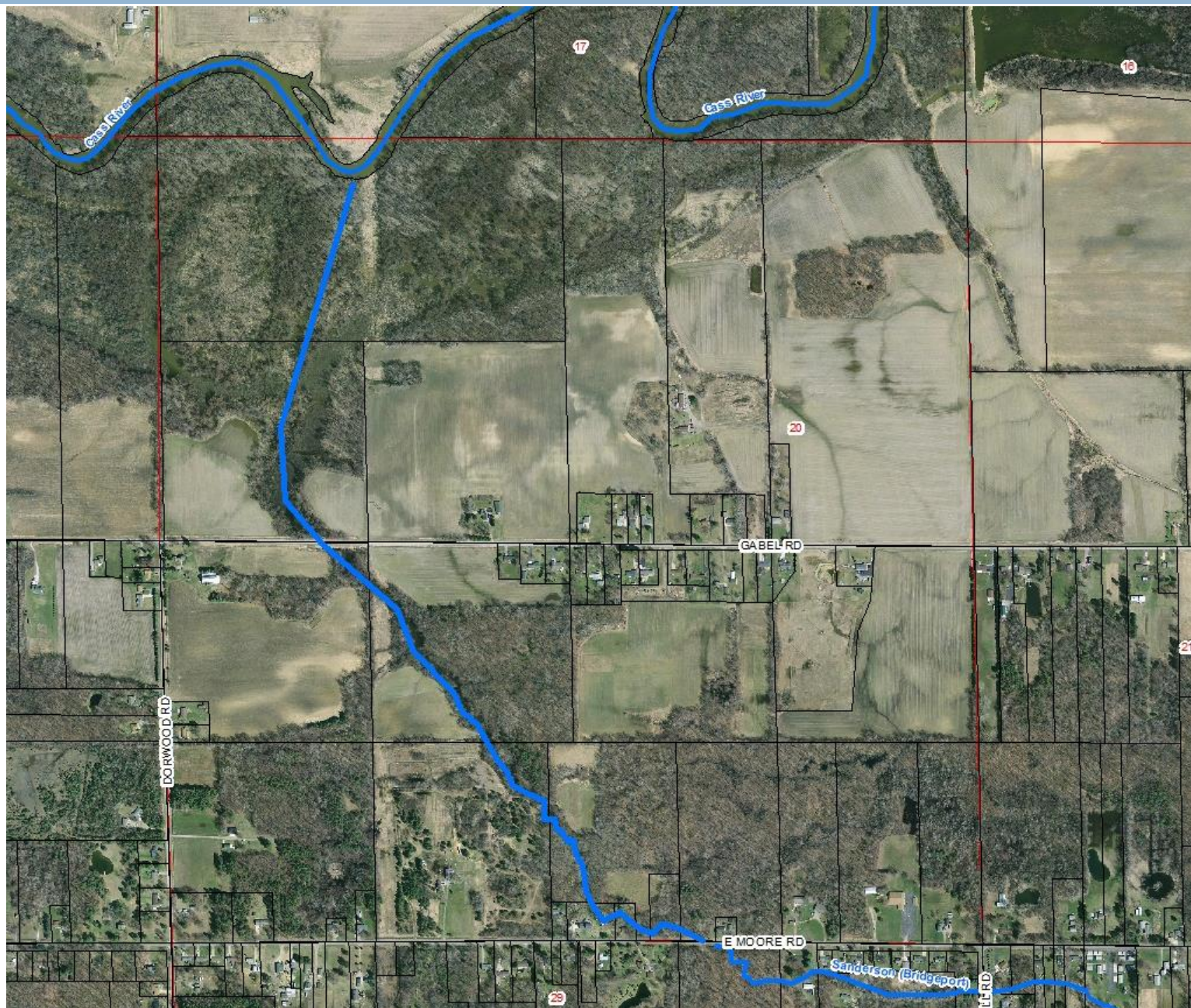
Drain Facts Continued

- SCPW Maintenance Engineer worked with Road Commission in March/April 2017 – yards along Bell Road north of drain were flooding. SCPW cleaned catch basins over the low flow tubes on the Sanderson Drain. The Road Commission cleaned driveway culverts along Bell Road.
- 2017 & 2019 - SCPWC received multiple calls in regards to flooding on properties along Bell Road
- April 2018 – SCPWC took bids to clear trees between Bell Road & Moore Road. Low bid was \$26,500 for tree clearing.

Drain Facts Continued

- March 2019 – SCPWC received complaints of erosion in the drain near 2760 E Moore. Drain inspection showed evidence that low flow pipe outlet is too high, causing water to work around the pipe and erode the drain banks
- Current petition was filed on June 10, 2019. It was circulated by David Dalton. It was signed by 7 landowners.

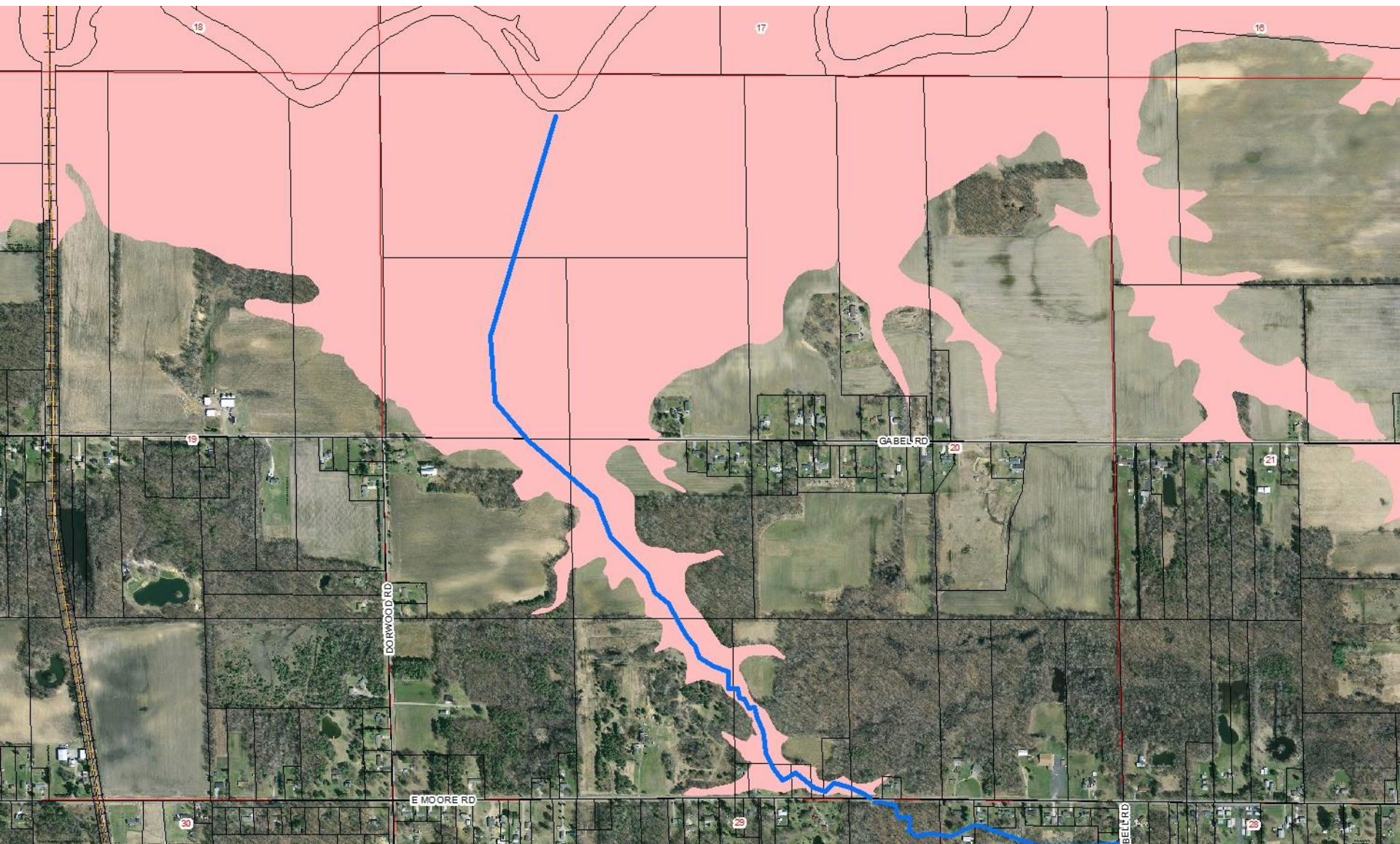
Downstream End (Cass River to E Moore Road)



Drain Inspection

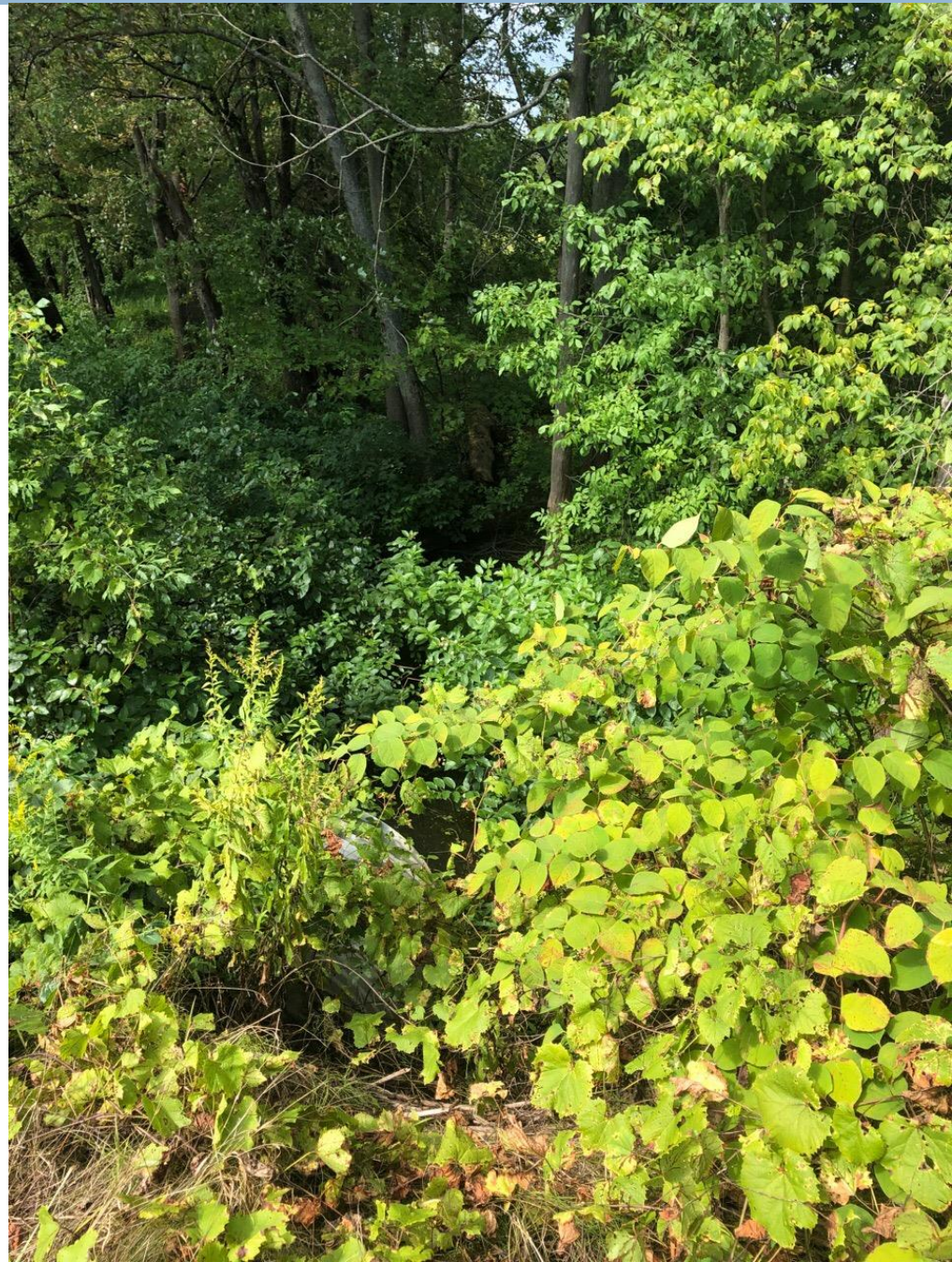
- On August 28, 2019 a field review of the Drain was completed as a result of requests for maintenance on the drain. The following was observed:
 - The drain flows through wooded and rural residential areas.
 - The portion of the drain downstream of E. Moore Road is mostly a ravine/natural waterway through a wooded corridor, with many trees down in the drain.
 - The portion of the drain between Bell Road & E. Moore Road has 2 areas with low flow tubes for approximately 500 feet (out of total 2,045 feet). There are many trees over the pipe. It appears that pipe may be plugged with tree roots and sediment.

Cass River 100-year Flood Plain & Sanderson Drain



Looking Downstream (North) from Gabel Road

Trees & brush
along drain –
wooded corridor

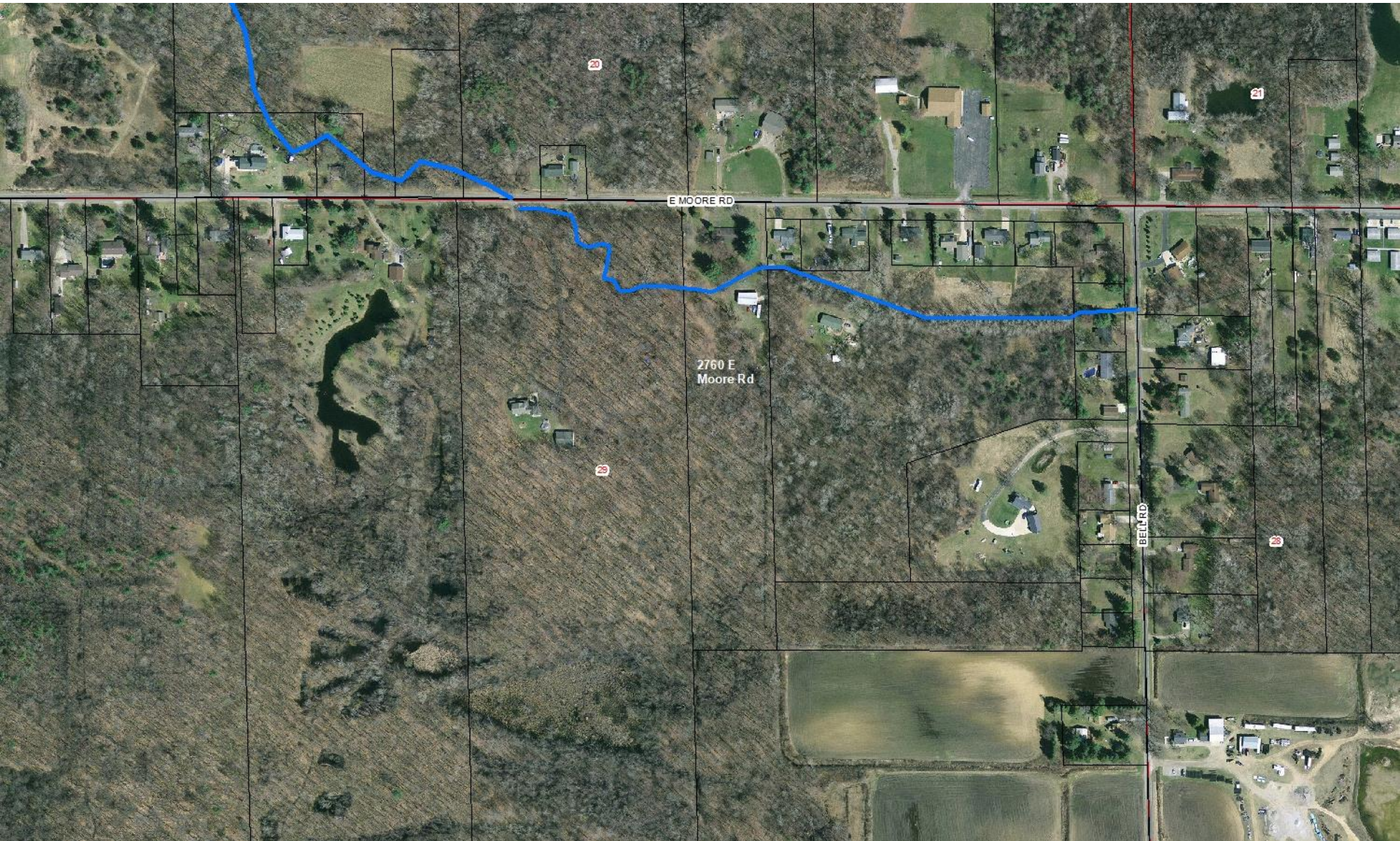


Looking Upstream (South) from Gabel Road



Ravine/natural waterway,
lower banks, floodplain area
with trees & brush

E Moore Road to Bell Road



Looking Downstream (West) from 2760 E Moore



Wide,
flat drain

Looking Upstream (East) from 2760 E Moore Rd

Area over 8-inch
diameter low
flow tube is
mowed, many
trees/brush
farther to East



Looking Downstream (West) from Bell Road



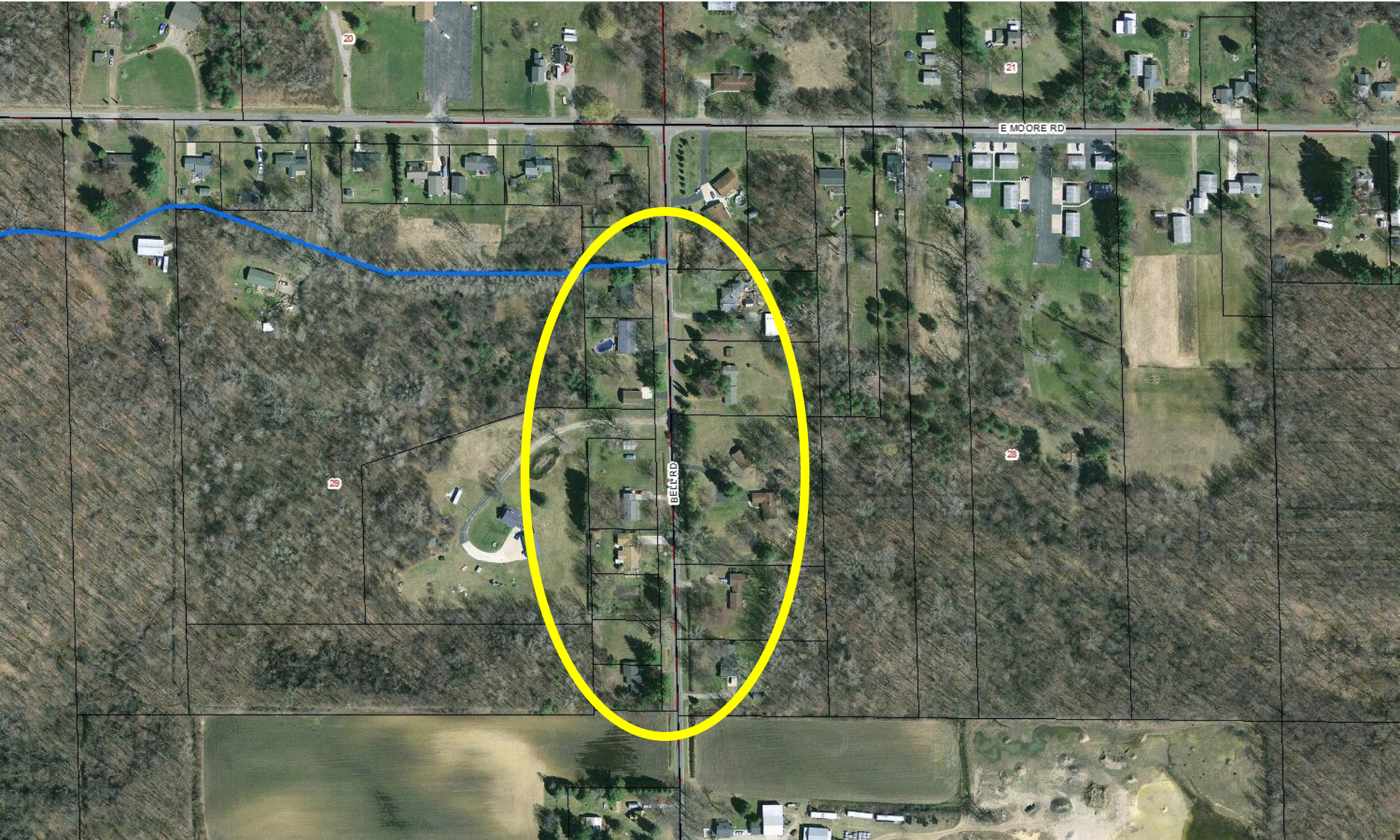
Sediment,
trees &
brush in
the drain

Upstream (East) end of Culvert Under Bell Road

Concrete
culvert;
approx. 6-
inches of
stagnant
water in pipe



Looking South along Bell Road (not county drain)



Drain Inspection Recap

- ❑ There are a lot of trees & brush in the drain, along the entire length.
- ❑ It appears that the low flow culverts are plugged with sediment and possibly tree roots. The drain between Bell Road and Moore Road is not functioning properly.
- ❑ The drain downstream of Moore Road appears to be more like a natural waterway/ravine. It does not appear that there are flooding issues in this area. It is located within the 100-year floodplain of the Cass River.

Summary of Drain Finances

- ❑ Spent approximately \$1,500 to repair erosion at 2760 E. Moore Road November 2014.
- ❑ Spent approximately \$1,200 for storm sewer cleaning and drain inspection February-March 2017.
- ❑ Spent approximately \$550 for tree removal and catch basin cleaning in April – August 2018
- ❑ Spent approximately \$550 for inspection and culvert cleaning/maintenance in April – June 2019
- ❑ Assessed \$2,500 in 2013 and \$1,000 in 2017 to pay for past inspection/maintenance.
- ❑ Drain account currently has approximately -\$2,430.

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