

King Street Tile Drain

Board of Determination

Bridgeport High School Auditorium

April 19, 2016

7:00 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 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

Please fill out comment cards completely if you would like to speak. The chairman will call you up to the podium by name. The speaking order will be on a first come, first serve basis. Petitioner will have a chance to speak first.

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

Public Comment (cont.)

- Briefly state your position on the petition for the King Street Tile Drain. For example: “I support the petition for the King Street Tile Drain because . . .” or “I oppose the petition for the King Street Tile Drain because”
- Remember to stay on topic! Comments for tonight’s meeting are limited to the current petition for the King Street Tile 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 King Street Tile Drain?
 - ▣ See Map
 - ▣ Approximately 34,125 feet long (6.5 miles)
 - ▣ Watershed area: Approximately 4,100 acres
- What is the drainage district?
 - ▣ Lands that contributes storm water to drain
 - ▣ Drainage District serves as the special assessment district
 - ▣ King Street Tile Drain Drainage District includes:
 - Bridgeport Charter Township
 - Buena Vista Charter Township
 - Spaulding Township
 - City of Saginaw
 - Saginaw County
 - Michigan Department of Transportation (MDOT)
 - 2 Rail Roads
 - Landowners – Approximately 3,570 parcels

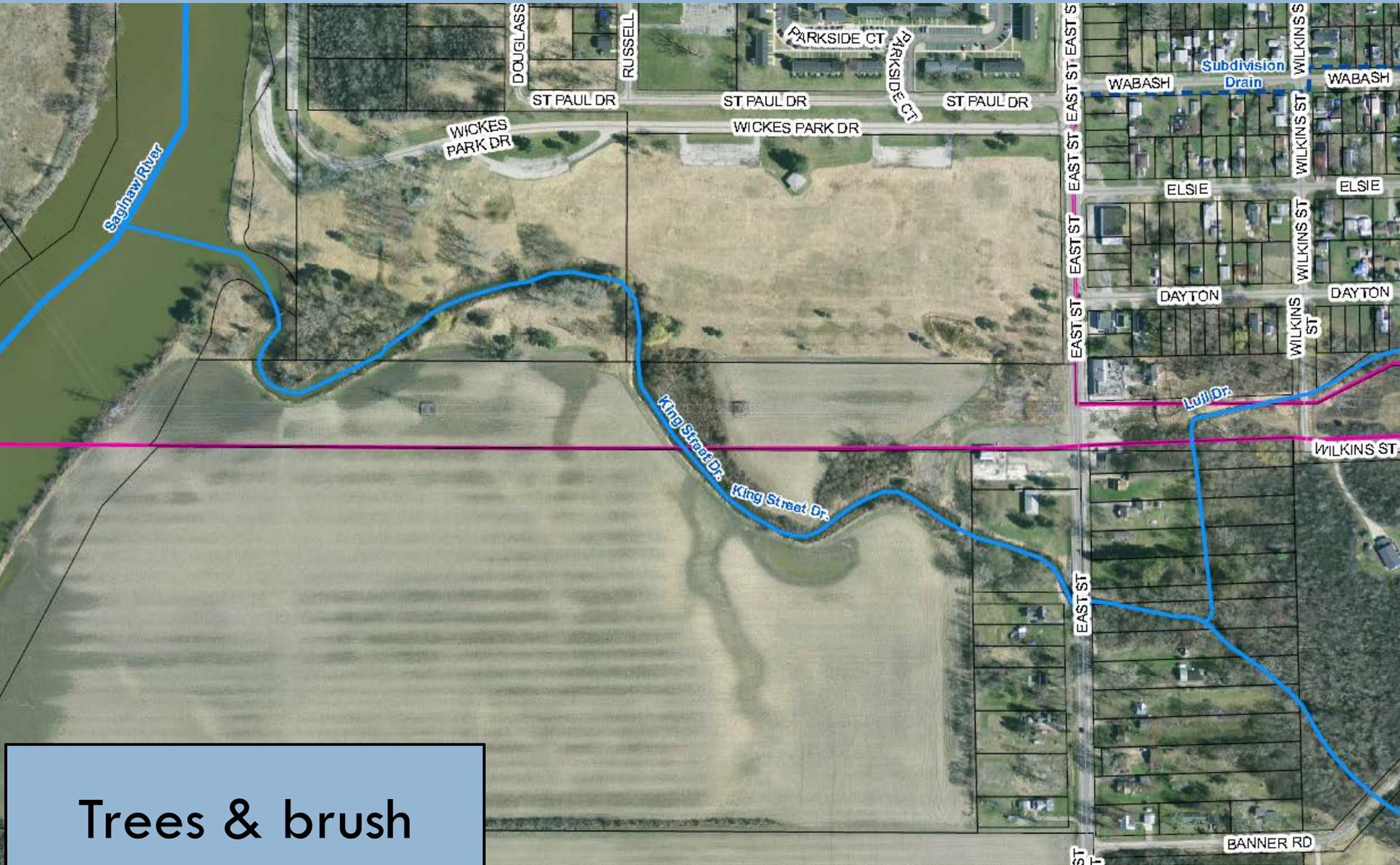
Drain Facts Continued

- King Street Tile Drain was established as a county drain in 1882.
- The drain was cleaned out via petition in 1888, 1905, 1927, 1946 and 1956. It was extended and cleaned out in 1965.
- Maintenance/improvement petition filed by a landowner on June 18, 1984. Project was determined “not necessary” so no construction was completed.
- The current petition was filed on December 14, 2015. It was circulated by Arthur Hoff and signed by 6 freeholders.

Drain Inspection

- On April 14, 2016 an engineering field review of the Drain (inspection from the road crossings only, the entire drain was not walked) was completed as a result of the petition filed with the Public Works Commissioner. The following was observed:
 - The drain flows through agricultural and residential areas.
 - There were trees and brush along most of the drain. There are portions of the drain where the bottom is meandering and bank erosion has occurred. Water flow appeared to be decent throughout most of the drain.
 - The upstream portion of the drain was full of sediment and cattails. Water was stagnant through this portion of drain.
 - There were failing bag rip rap headwalls at many crossings.

Downstream End of Drain – West of East Street



Trees & brush
along drain

Looking Downstream (West) from East Street April 14, 2016

Trees and brush.
Stagnant water,
possibly
backwater from
the Saginaw River

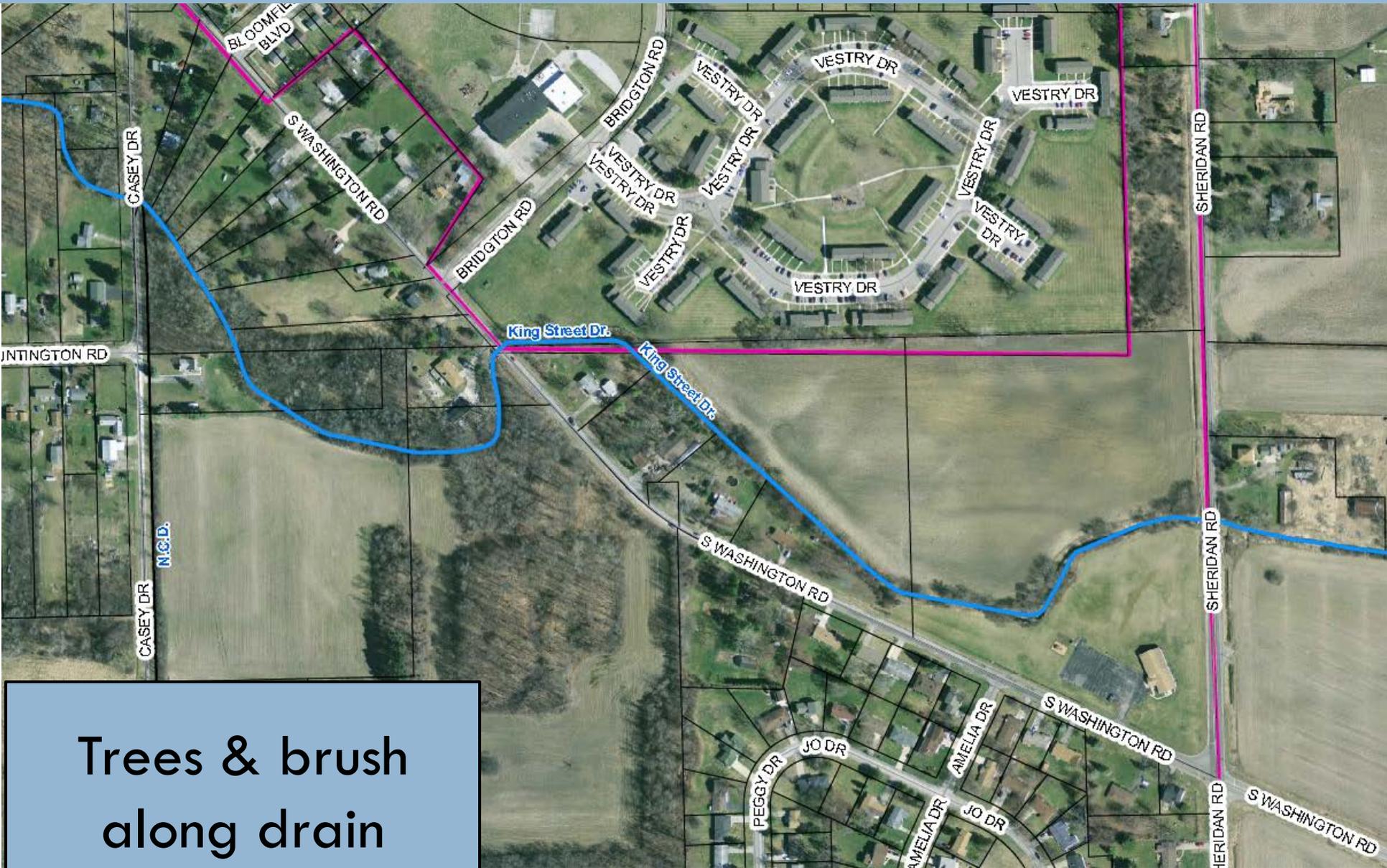


Looking Upstream (East) – East Street

Trees, brush and
stagnant water



Downstream End of Drain – Casey Drive, S. Washington Road & Sheridan Road

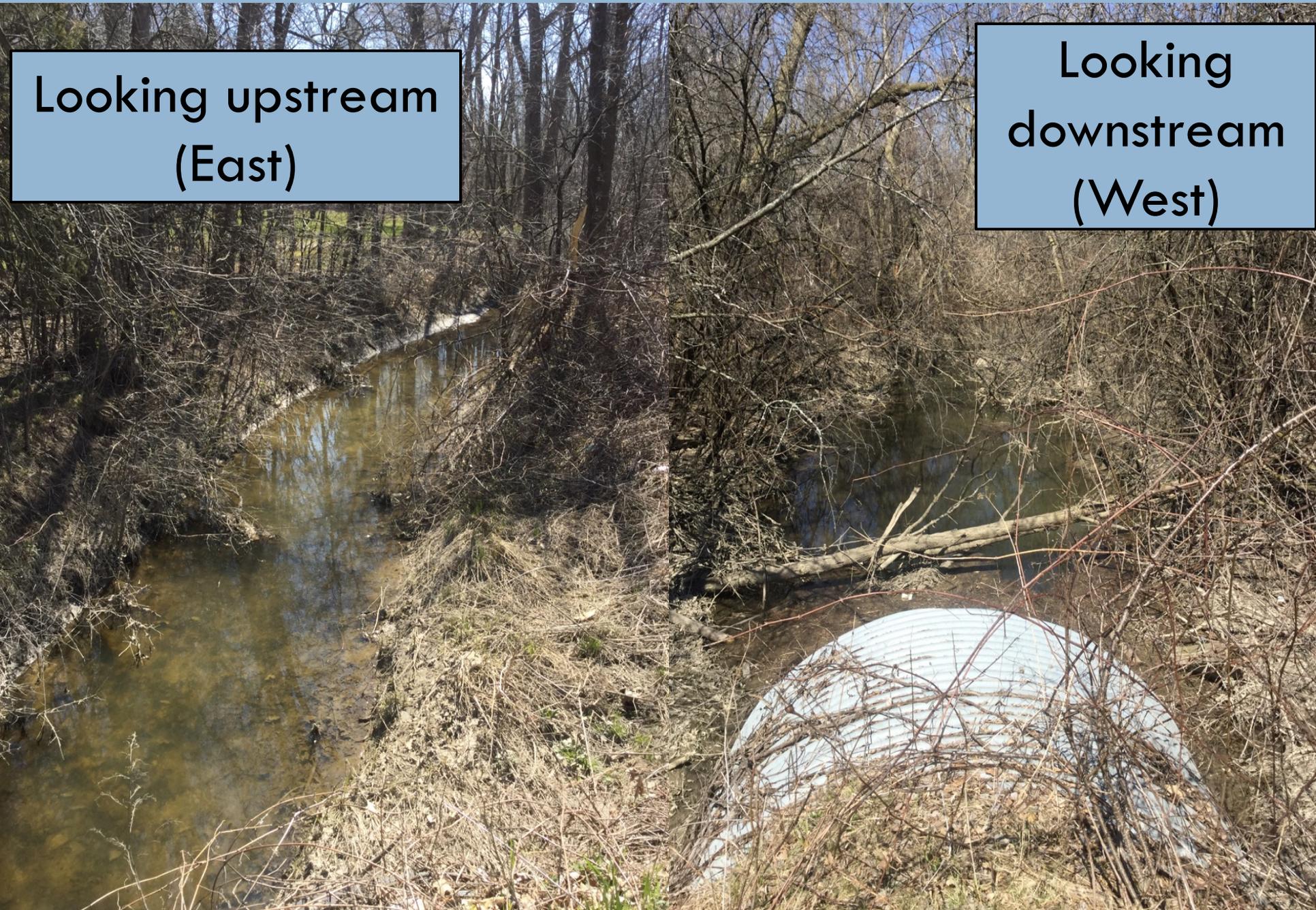


Trees & brush
along drain

Casey Drive

Looking upstream
(East)

Looking
downstream
(West)



S. Washington Road

Looking
upstream
(East)

Looking
downstream
(Southwest)



S. Washington Road

Failing bag rip
rap headwalls

Minor
sedimentation,
possibly due to
poor culvert
alignment



Sheridan Road

Looking
Upstream
(East)



Looking
Downstream
(West)



Williamson Road and King Road (2 crossings)



Williamson Road

Looking
Upstream
(Northeast)



Looking
Downstream
(West)



Williamson Road

Failing headwalls,
very poor
condition

Alignment of box
beam bridge
creates
sedimentation



King Road (First Crossing near Williamson)

Looking
Upstream
(Southeast)



Looking
Downstream
(Northwest)



King Road (Second Crossing)

Looking
Upstream
(North)



Looking
Downstream
(South)

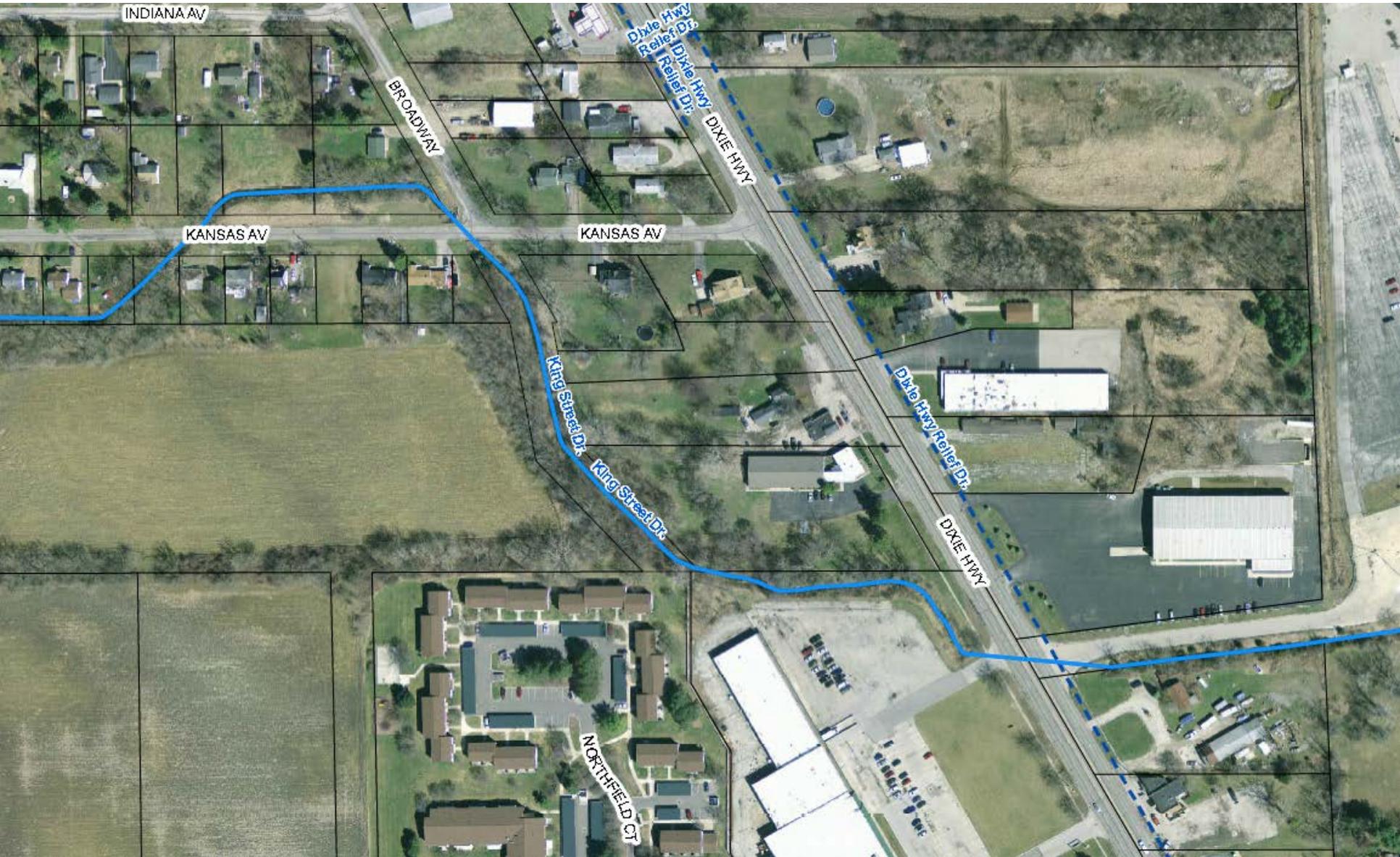
King Road (Second crossing)

Failing bag rip
rap headwalls

Alignment of
culvert creates
some erosion
downstream



Kansas Avenue (2 crossings) and Dixie Highway

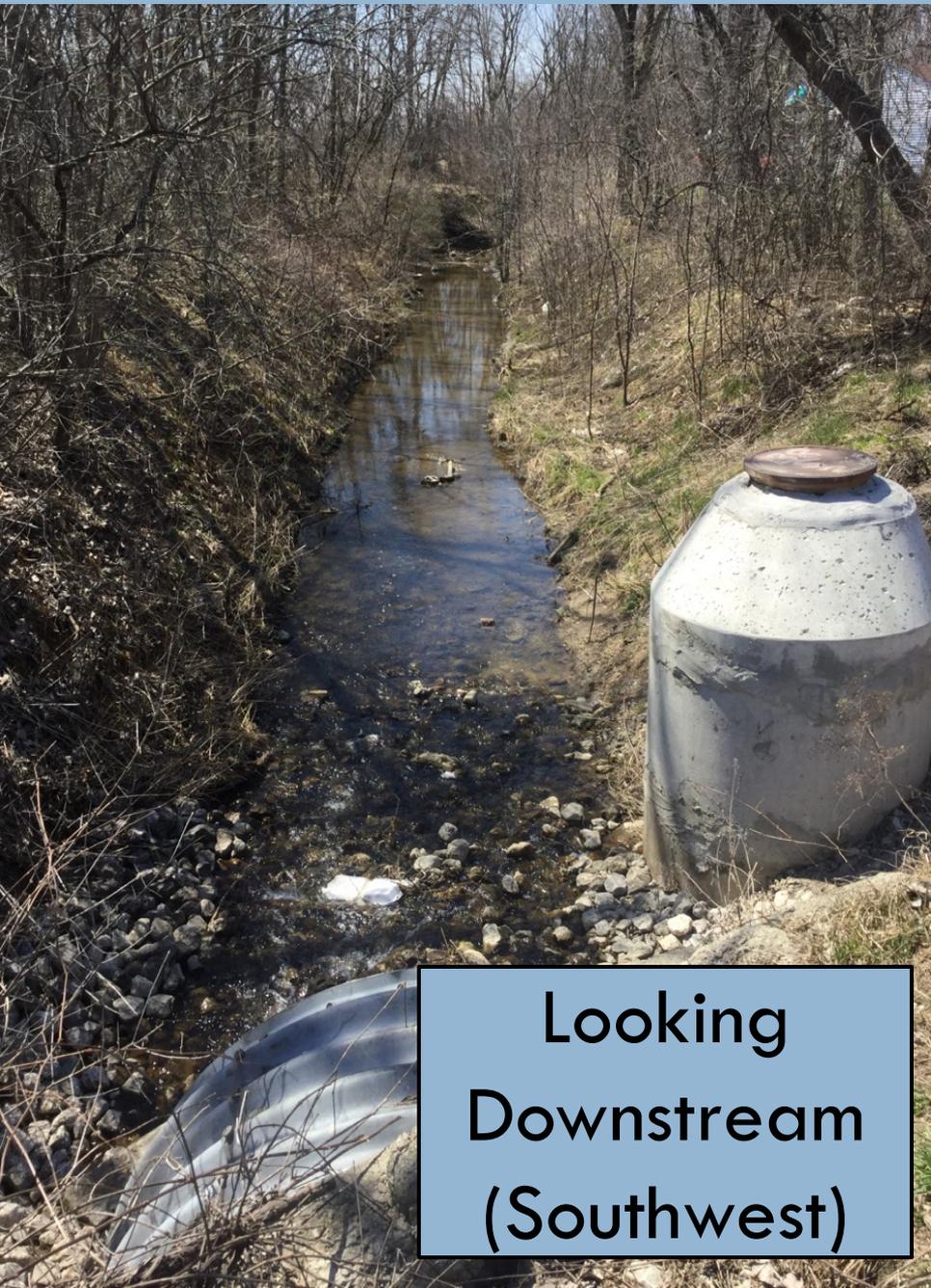


Kansas Avenue (Western Crossing)

Looking
Upstream
(Northeast)



Looking
Downstream
(Southwest)



Kansas Avenue (South End of Western Crossing)

Failing bag rip
rap headwalls

Rip rap at culvert
outlet backing up
water in drain



Kansas Avenue (Eastern Crossing)

Looking
Upstream
(Southeast)



Looking
Downstream
(Northwest)



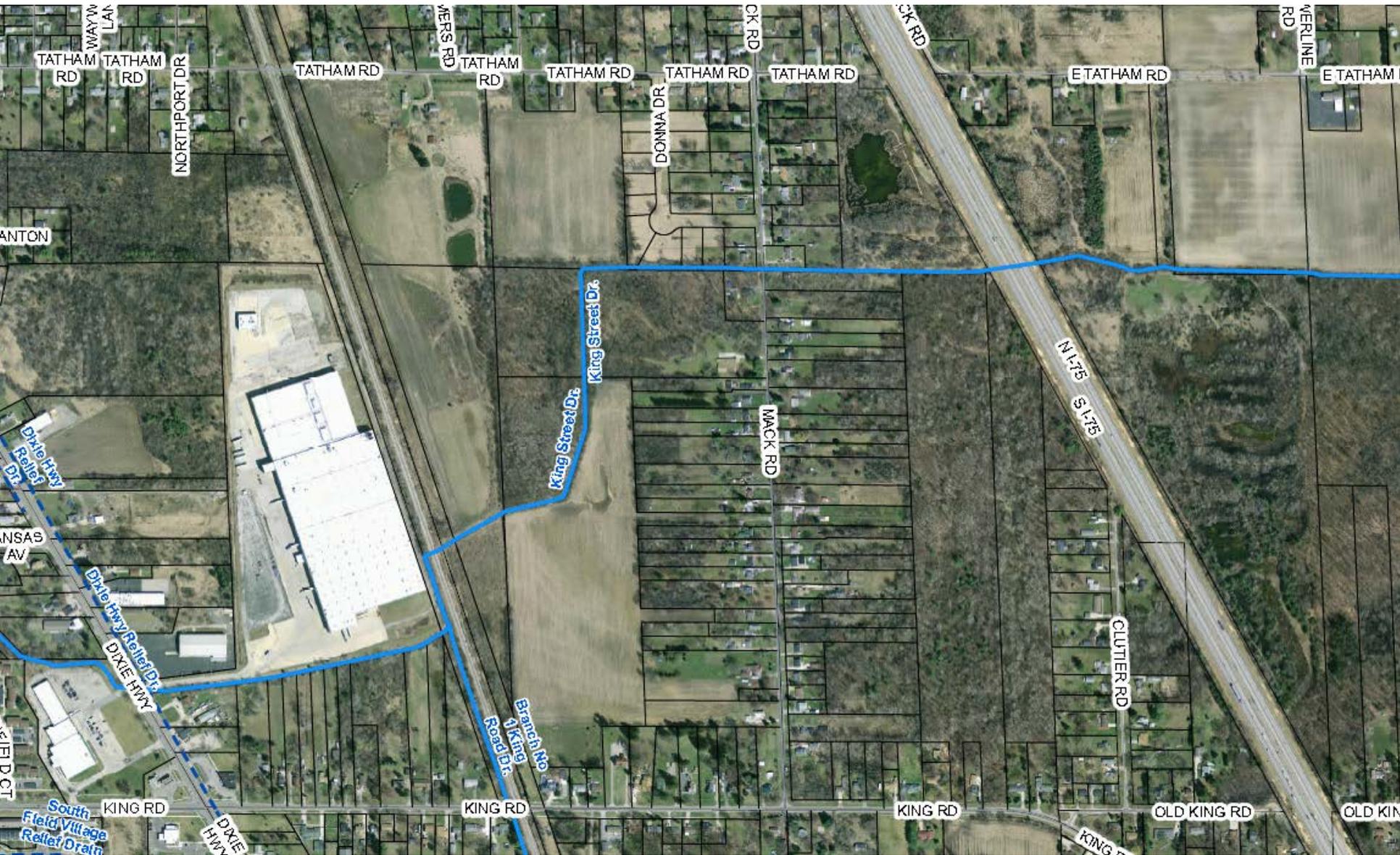
Dixie Highway

West End



Looking
Downstream
(West)

Dixie Highway, Mack Road and I-75



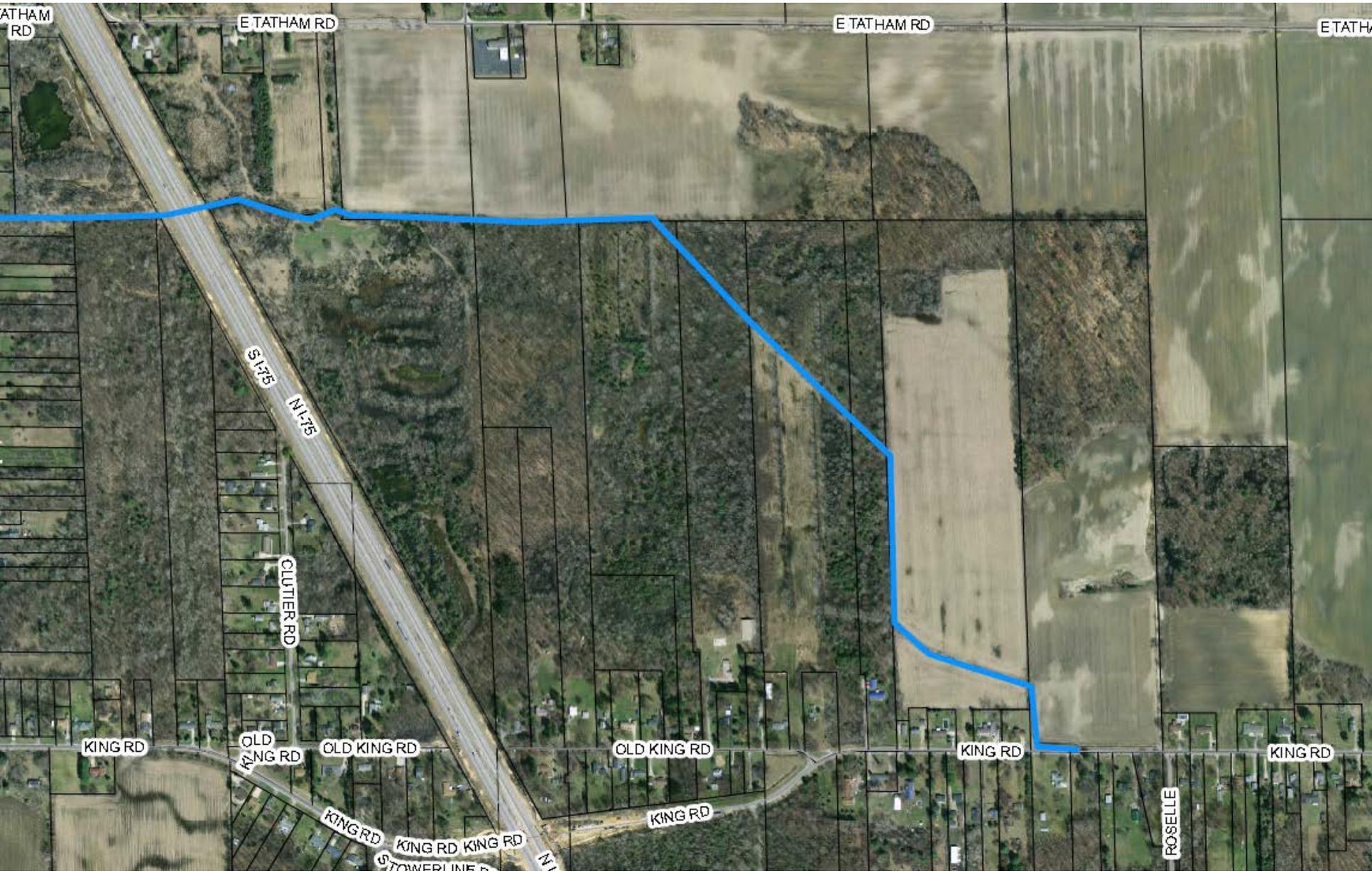
Mack Road



Looking
Upstream
(East)

Looking
Downstream
(West)

I-75 and King Road



King Road – End of Drain



Looking
Downstream
(West)



Looking
Downstream
(North)

Drain Inspection Recap

- ❑ The downstream portion of the drain appeared to be in ok to good shape with minor erosion and sedimentation. There was minimal to no bank erosion, a large drain cross section but a large amount of brush/trees.
- ❑ The upstream portion of the drain was full of sediment and cattails. It appeared water flow was greatly impeded.
- ❑ Drain sides slopes appeared stable and in decent to good shape throughout.
- ❑ The road crossings/culverts along the entire length of drain ranged from good to poor in conditions (size and grade were not calculated). There were no obvious indications of culverts being undersized. Most of the bag rip rap headwalls were failing.

Summary of Drain Finances

- ❑ Drain Maintenance completed in 2014, brush spraying – spent approximately \$1,675.
- ❑ Drain Maintenance completed in 2015, brush spraying and remove log jam – spent approximately \$2,277. Please note – from pictures appears much of brush is larger than what can be taken care of by brush spraying.
- ❑ Drain account currently has \$0.

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