

# King Street Tile Drain Inspections

Inspection Report for Observation:  
**SideDrain1**

**Flow Direction:** South

**Location:** Left Side Facing Upstream

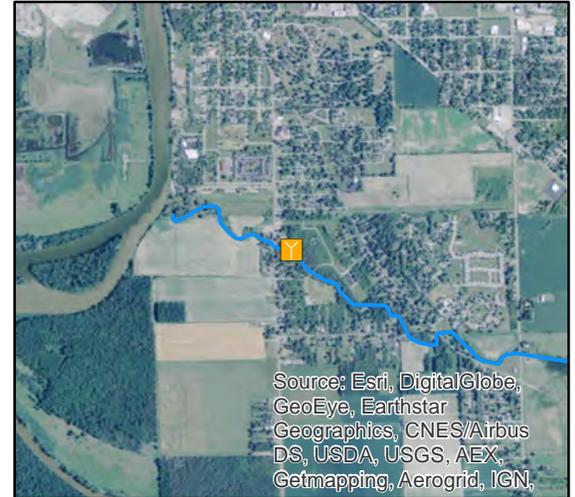
**Width (feet):** 10

**Photo 1 Direction:**

**Comments:**

12 ft wide side drain enters drain on left side. Flows south. Drain increases in width downstream of side drain. Photo facing north.

**Observation Location:**



**Photo 1**



**Photo 2**

**Photo 3**

CLIENT	Saginaw County Public Works Commissioner	 <b>HUBBELL, ROTH &amp; CLARK, INC</b> CONSULTING ENGINEERS SINCE 1915	555 Hulet Drive P.O. Box 824 Bloomfield Hills, MI 48303-0824 (248) 454-6300 <a href="http://www.hrc-engr.com">http://www.hrc-engr.com</a>	DATE:	08/16/2016
				SCALE:	
NOTE				SHEET #:	
				JOB #:	20160331

# King Street Tile Drain Inspections

Inspection Report for Observation:  
**SideDrain2**

**Flow Direction:** Northeast

**Location:** Right Side Facing Upstream

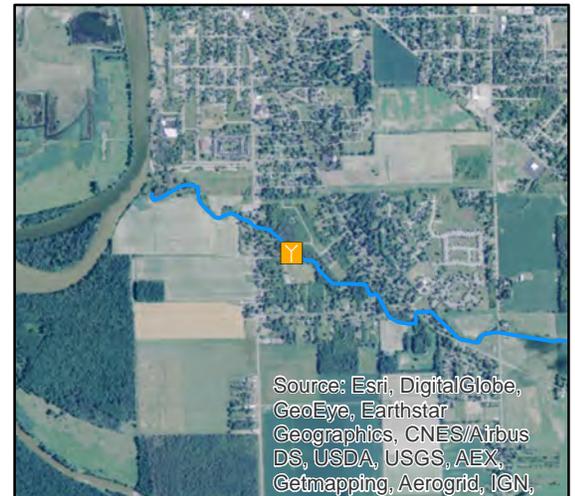
**Width (feet):** 5

**Photo 1 Direction:**

**Comments:**

Side drain flows northeast. Enters drain on right side. 5 ft wide. Photo facing southwest.

**Observation Location:**



**Photo 1**



**Photo 2**

**Photo 3**

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				SCALE:	
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				JOB #:	20160331

# King Street Tile Drain Inspections

Inspection Report for Observation:  
**SideDrain3**

**Flow Direction:** Southwest

**Location:** Left Side Facing Upstream

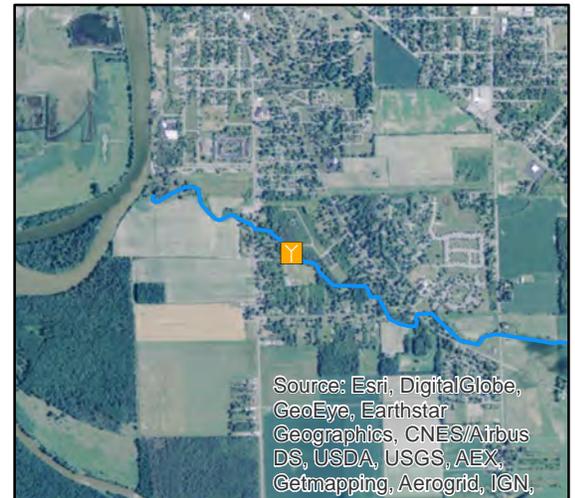
**Width (feet):** 2

**Photo 1 Direction:**

**Comments:**

2ft wide side drain enters on left. Photo facing northeast. Flows southwest.

**Observation Location:**



**Photo 1**



**Photo 2**

**Photo 3**

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				JOB #:	20160331

# King Street Tile Drain Inspections

Inspection Report for Observation:  
**SideDrain4**

**Flow Direction:** Southwest

**Location:** Left Side Facing Upstream

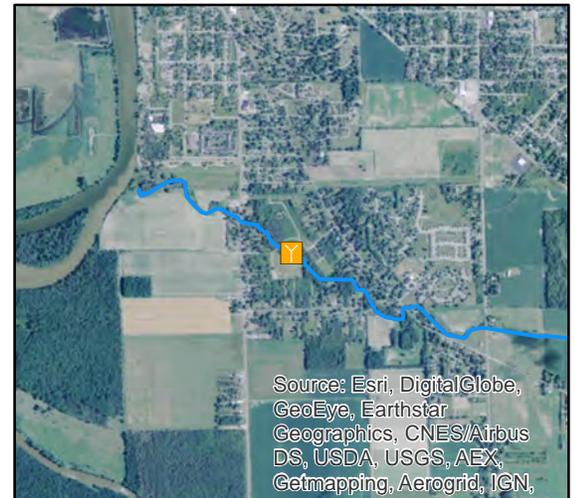
**Width (feet):** 1

**Photo 1 Direction:**

**Comments:**

1.5 ft wide side drain flows south. Enters drain on left side. Photo facing southwest.

**Observation Location:**



**Photo 1**



**Photo 2**

**Photo 3**

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# King Street Tile Drain Inspections

Inspection Report for Observation:  
**SideDrain5**

**Flow Direction:** North

**Location:** Right Side Facing Upstream

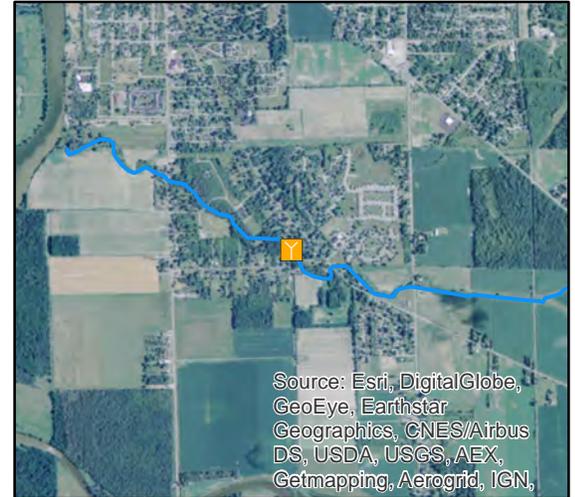
**Width (feet):** 2

**Photo 1 Direction:**

**Comments:**

2 ft wide side drain flows north along Casey dr. Photo facing south.

**Observation Location:**



**Photo 1**



**Photo 2**

**Photo 3**

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# King Street Tile Drain Inspections

Inspection Report for Observation:  
**SideDrain6**

**Flow Direction:** South

**Location:** Left Side Facing Upstream

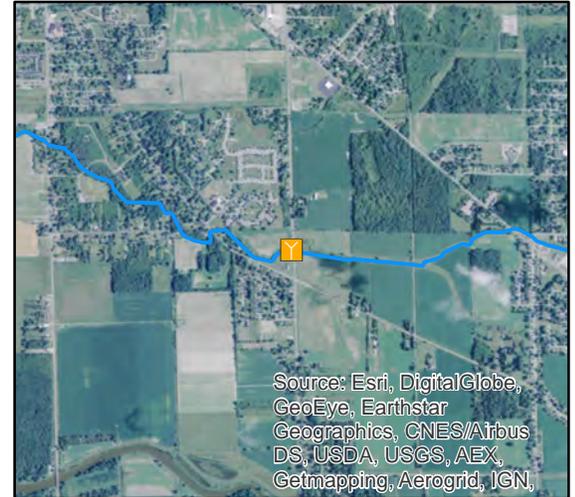
**Width (feet):** 3

**Photo 1 Direction:**

**Comments:**

Roadside ditch along west side of Sheridan rd flows south into drain. Enters drain on left. Photo facing north. Heavy vegetation in it.

**Observation Location:**



**Photo 1**



**Photo 2**

**Photo 3**

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# King Street Tile Drain Inspections

Inspection Report for Observation:  
**SideDrain7**

**Flow Direction:** North

**Location:** Right Side Facing Upstream

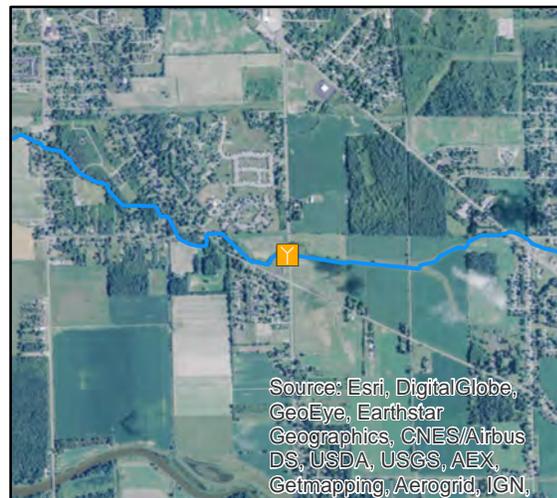
**Width (feet):** 3

**Photo 1 Direction:**

**Comments:**

Roadside ditch on west side of Sheridan rd enters drain on right side. 3 ft wide. Heavy vegetation. Photo facing south.

**Observation Location:**



**Photo 1**



**Photo 2**

**Photo 3**

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# King Street Tile Drain Inspections

Inspection Report for Observation:  
**SideDrain8**

**Flow Direction:** South

**Location:** Left Side Facing Upstream

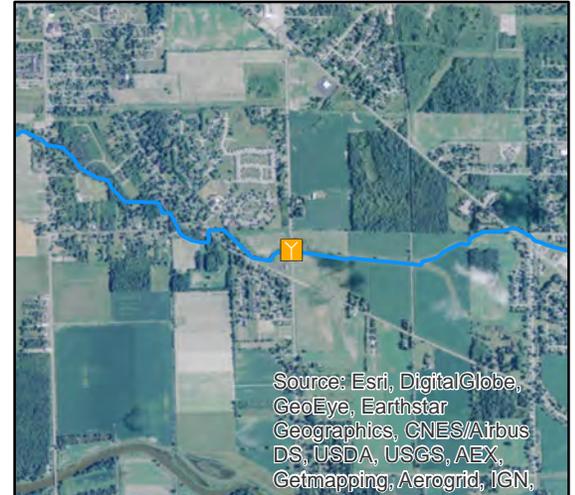
**Width (feet):** 3

**Photo 1 Direction:**

**Comments:**

Roadside ditch on east side of Sheridan rd flows north and enters drain on right. 3 ft wide. Photo facing south.

**Observation Location:**



**Photo 1**



**Photo 2**

**Photo 3**

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# King Street Tile Drain Inspections

Inspection Report for Observation:  
**SideDrain9**

**Flow Direction:** North

**Location:** Right Side Facing Upstream

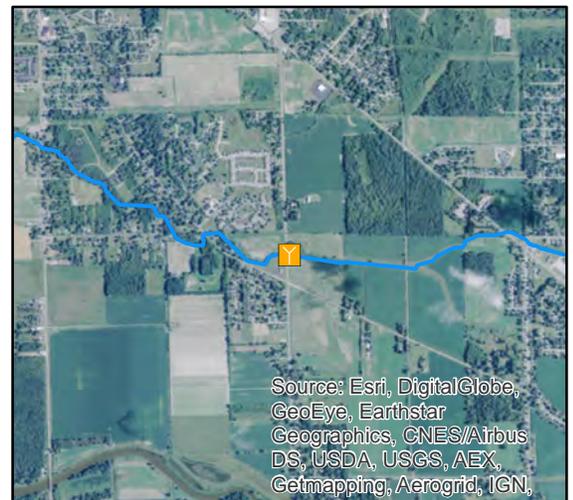
**Width (feet):** 2

**Photo 1 Direction:**

**Comments:**

Side drain enters drain on right side. 2 ft wide. Carries drainage from field tile outlet. Includes a failed 6" diam cmp that is rusted and broken. Photos facing south.

**Observation Location:**



**Photo 1**



**Photo 2**



**Photo 3**

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# King Street Tile Drain Inspections

Inspection Report for Observation:  
**SideDrain10**

**Flow Direction:** East

**Location:** Right Side Facing Upstream

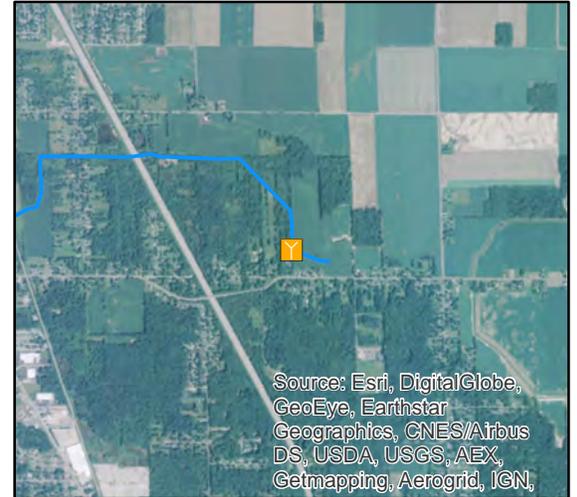
**Width (feet):** 2

**Photo 1 Direction:**

**Comments:**

2ft side drain right side of drain. Picture facing west

**Observation Location:**



**Photo 1**

**Photo 2**

**Photo 3**

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				SCALE:	
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# King Street Tile Drain Inspections

Inspection Report for Observation:  
**SideDrain11**

**Flow Direction:** West

**Location:** Right Side Facing Upstream

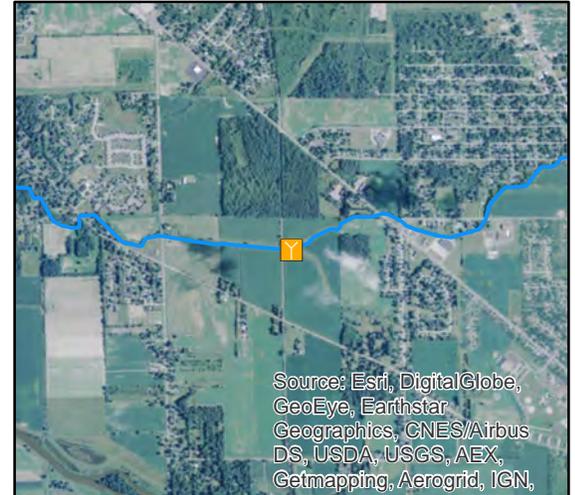
**Width (feet):** 16

**Photo 1 Direction:**

**Comments:**

Side drain enters drain on right. Photo facing east. Heavy vegetation. Enters drain at bend, just upstream of farm crossing.

**Observation Location:**



**Photo 1**

**Photo 2**

**Photo 3**

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# King Street Tile Drain Inspections

Inspection Report for Observation:  
**SideDrain12**

**Flow Direction:** West

**Location:** Right Side Facing Upstream

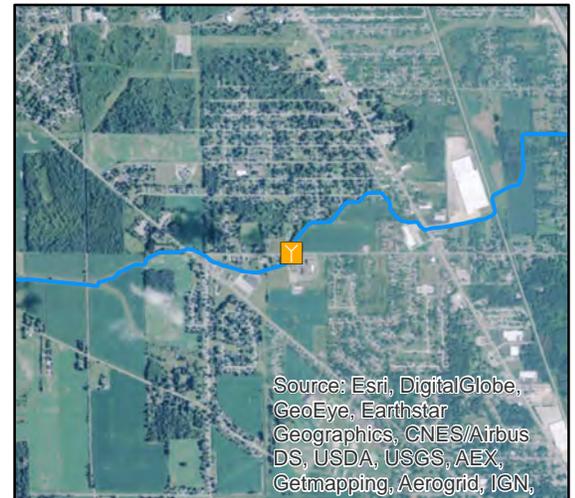
**Width (feet):** 3

**Photo 1 Direction:** East

**Comments:**

Roadside ditch on north side of King st flows west and enters drain on right. Heavy vegetation in it.

**Observation Location:**



**Photo 1**



**Photo 2**

**Photo 3**

CLIENT	Saginaw County Public Works Commissioner	 <b>HUBBELL, ROTH &amp; CLARK, INC</b> CONSULTING ENGINEERS SINCE 1915	555 Hulet Drive P.O. Box 824 Bloomfield Hills, MI 48303-0824 (248) 454-6300 <a href="http://www.hrc-engr.com">http://www.hrc-engr.com</a>	DATE:	08/16/2016
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# King Street Tile Drain Inspections

Inspection Report for Observation:  
**SideDrain13**

**Flow Direction:** East

**Location:** Left Side Facing Upstream

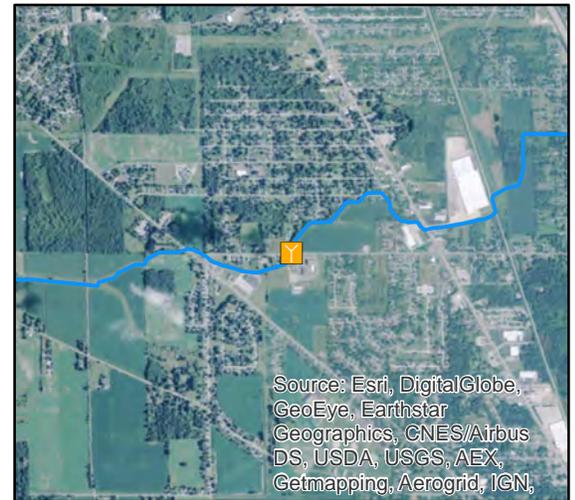
**Width (feet):** 2

**Photo 1 Direction:** West

**Comments:**

Roadside ditch on north side of King st flows east and enters drain on left. Heavy vegetation in it.

**Observation Location:**



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN,

**Photo 1**



**Photo 2**

**Photo 3**

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# King Street Tile Drain Inspections

Inspection Report for Observation:  
**SideDrain14**

**Flow Direction:** Northwest

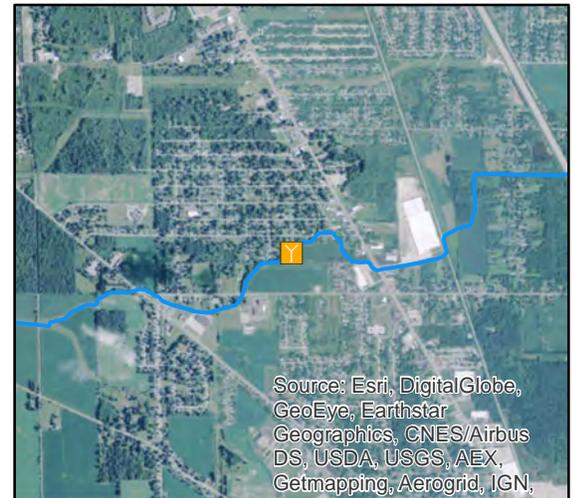
**Location:** Right Side Facing Upstream

**Width (feet):** 4

**Photo 1 Direction:** Southeast

**Comments:**  
Side drain enters from tight. Flows northwest.

**Observation Location:**



**Photo 1**



**Photo 2**

**Photo 3**

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# King Street Tile Drain Inspections

Inspection Report for Observation:  
**SideDrain15**

**Flow Direction:** South

**Location:** Right Side Facing Upstream

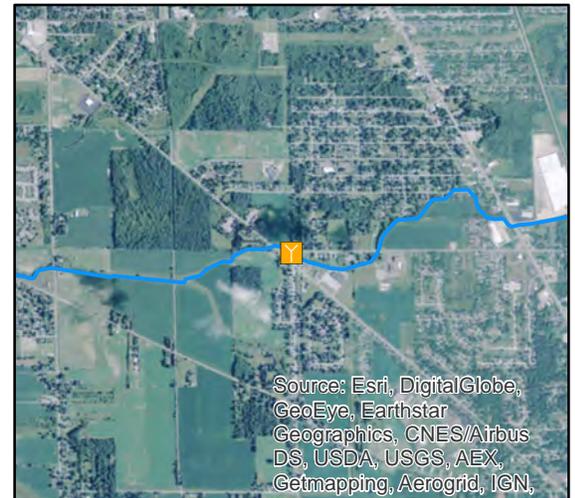
**Width (feet):** 2

**Photo 1 Direction:** North

**Comments:**

Side drain flows south and enters drain on right. Photo facing north.

**Observation Location:**



**Photo 1**



**Photo 2**

**Photo 3**

CLIENT	Saginaw County Public Works Commissioner	 <b>HUBBELL, ROTH &amp; CLARK, INC</b> CONSULTING ENGINEERS SINCE 1915	555 Hulet Drive P.O. Box 824 Bloomfield Hills, MI 48303-0824 (248) 454-6300 <a href="http://www.hrc-engr.com">http://www.hrc-engr.com</a>	DATE:	08/16/2016
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				JOB #:	20160331

# King Street Tile Drain Inspections

Inspection Report for Observation:  
**SideDrain16**

**Flow Direction:** North

**Location:** Right Side Facing Upstream

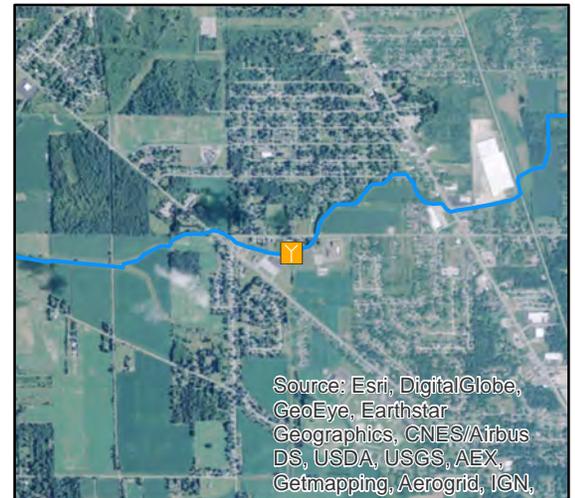
**Width (feet):** 2

**Photo 1 Direction:** North

**Comments:**

Side drain enters on right. Flows north.

**Observation Location:**



**Photo 1**



**Photo 2**

**Photo 3**

CLIENT	Saginaw County Public Works Commissioner	 <b>HUBBELL, ROTH &amp; CLARK, INC</b> CONSULTING ENGINEERS SINCE 1915	555 Hulet Drive P.O. Box 824 Bloomfield Hills, MI 48303-0824 (248) 454-6300 <a href="http://www.hrc-engr.com">http://www.hrc-engr.com</a>	DATE:	08/16/2016
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# King Street Tile Drain Inspections

Inspection Report for Observation:  
**SideDrain17**

**Flow Direction:** Southwest

**Location:** Left Side Facing Upstream

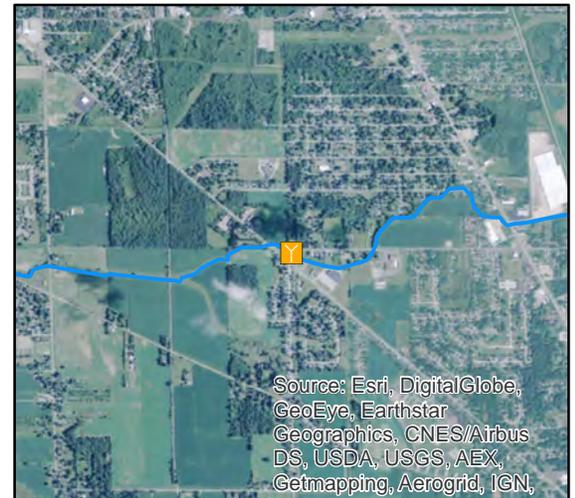
**Width (feet):** 50

**Photo 1 Direction:** Southwest

**Comments:**

Side drain going across drain. 12" CMP

**Observation Location:**



**Photo 1**



**Photo 2**



**Photo 3**

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# King Street Tile Drain Inspections

Inspection Report for Observation:  
**SideDrain18**

**Flow Direction:** South

**Location:** Left Side Facing Upstream

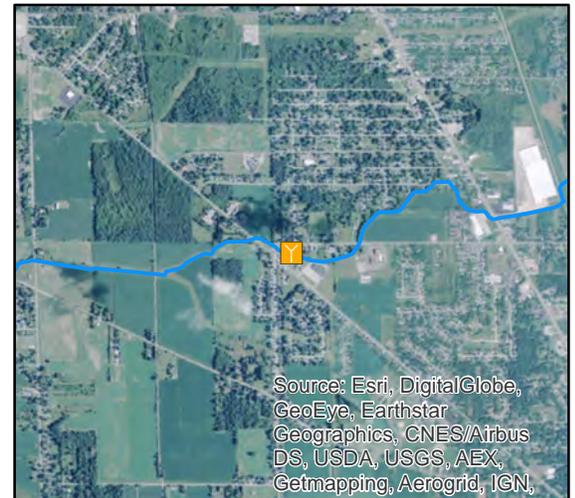
**Width (feet):** 6

**Photo 1 Direction:** South

**Comments:**

Side drain on left side of drain facing upstream approximately 6' wide and 8' deep.

**Observation Location:**



**Photo 1**



**Photo 2**



**Photo 3**

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# King Street Tile Drain Inspections

Inspection Report for Observation:  
**SideDrain19**

**Flow Direction:** East

**Location:** Right Side Facing Upstream

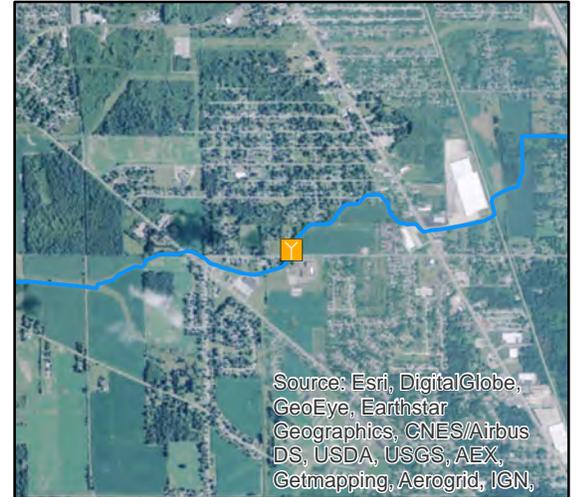
**Width (feet):** 6

**Photo 1 Direction:** East

**Comments:**

Side drainage ditch dumping a lot is sediment into this area. Picture facing east across the drain.

**Observation Location:**



**Photo 1**



**Photo 2**

**Photo 3**

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# King Street Tile Drain Inspections

Inspection Report for Observation:  
**SideDrain20**

**Flow Direction:** West

**Location:** Right Side Facing Upstream

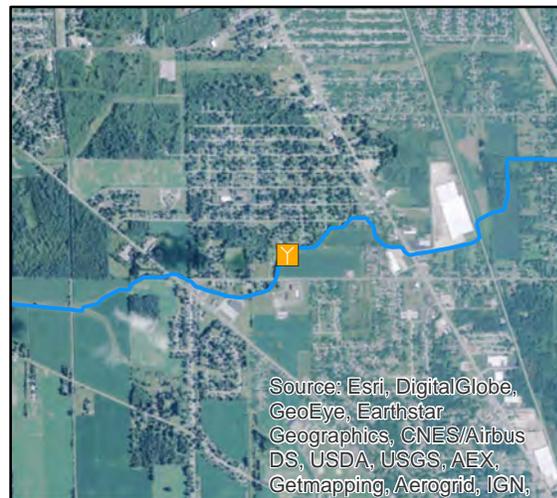
**Width (feet):** 4

**Photo 1 Direction:** East

**Comments:**

4' wide drain coming in the east side of drain.

**Observation Location:**



**Photo 1**



**Photo 2**

**Photo 3**

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# King Street Tile Drain Inspections

Inspection Report for Observation:  
**SideDrain21**

**Flow Direction:** Northwest

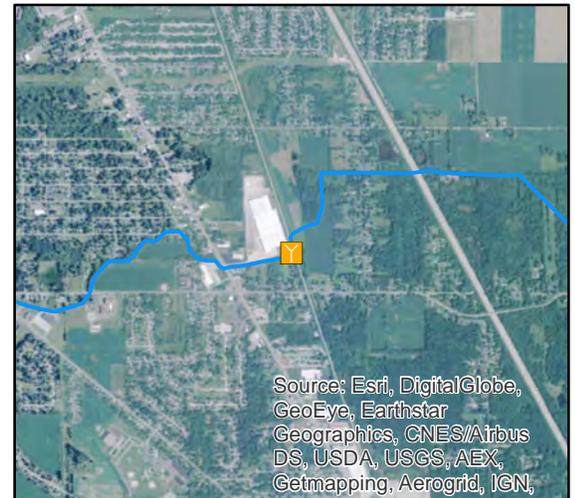
**Location:** Right Side Facing Upstream

**Width (feet):** 2

**Photo 1 Direction:** Facing Upstream

**Comments:**  
2' side drain right side of the drain. Picture facing Southeast

**Observation Location:**



**Photo 1**



**Photo 2**

**Photo 3**

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# King Street Tile Drain Inspections

Inspection Report for Observation:  
**SideDrain22**

**Flow Direction:** South

**Location:**

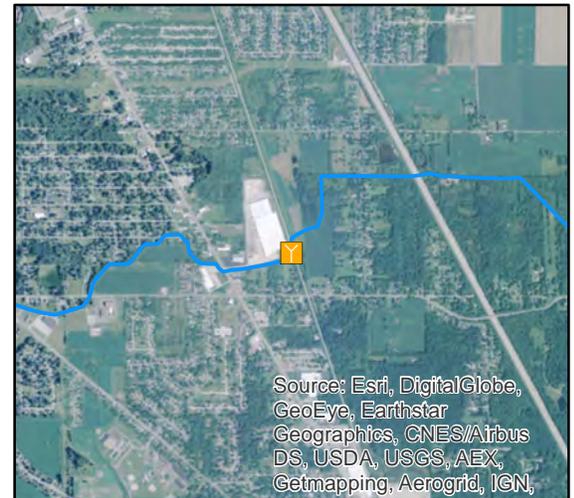
**Width (feet):** 3

**Photo 1 Direction:** Facing Upstream

**Comments:**

Side drain taking flow of the county drain due to bi pass of blocked culvert at railroad . Picture facing upstream .

**Observation Location:**



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN,

**Photo 1**



**Photo 2**

**Photo 3**

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# King Street Tile Drain Inspections

Inspection Report for Observation:  
**SideDrain23**

**Flow Direction:** South

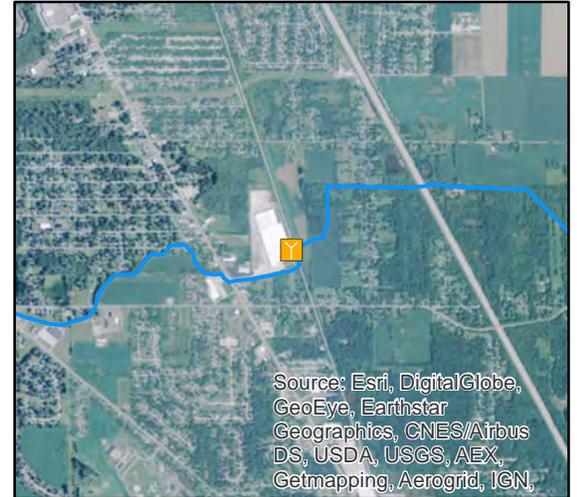
**Location:** Left Side Facing Upstream

**Width (feet):** 2

**Photo 1 Direction:** North

**Comments:**  
2' side drain left side. Picture facing North

**Observation Location:**



**Photo 1**



**Photo 2**

**Photo 3**

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# King Street Tile Drain Inspections

Inspection Report for Observation:  
**SideDrain24**

**Flow Direction:** East

**Location:** Right Side Facing Upstream

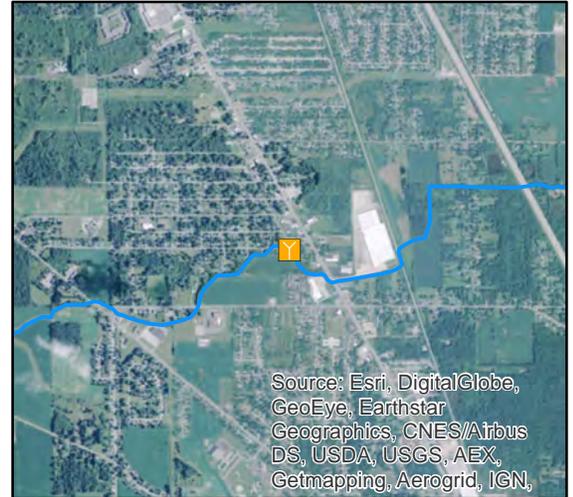
**Width (feet):** 2

**Photo 1 Direction:** West

**Comments:**

Roadside ditch on south side of Kansas street enters drain from right. 12" diam concrete pipe segment is located at top of hill and is supported by tree stump. Assumption is this serves as a conduit. Might also be random debris. Unable to clearly determine flow direction on south side of Kansas st. Possibly flows west and enters drain at downstream crossing.

**Observation Location:**



**Photo 1**



**Photo 2**



**Photo 3**



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				SCALE:	
NOTE				SHEET #:	
				JOB #:	20160331

# King Street Tile Drain Inspections

Inspection Report for Observation:  
**SideDrain25**

**Flow Direction:** West

**Location:** Right Side Facing Upstream

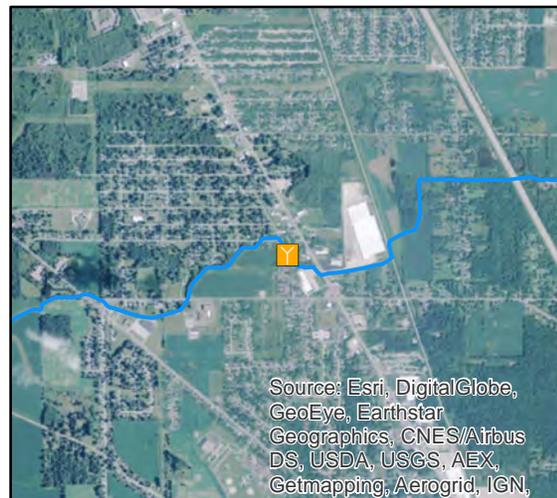
**Width (feet):** 4

**Photo 1 Direction:** East

**Comments:**

Side drain flows west and enters drain on right.

**Observation Location:**



**Photo 1**



**Photo 2**

**Photo 3**

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				JOB #:	20160331

# King Street Tile Drain Inspections

Inspection Report for Observation:  
**SideDrain26**

**Flow Direction:** North

**Location:** Right Side Facing Upstream

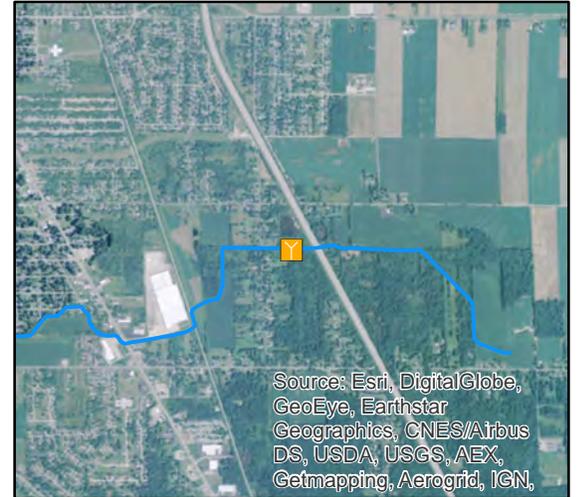
**Width (feet):** 3

**Photo 1 Direction:** North

**Comments:**

Side drain 3 ft enters drain on right. Flows north. Undercutting tree roots. Potentially an outlet pipe but cannot tell under rubble.

**Observation Location:**



**Photo 1**



**Photo 2**



**Photo 3**

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				JOB #:	20160331

# King Street Tile Drain Inspections

Inspection Report for Observation:  
**SideDrain27**

**Flow Direction:** North

**Location:** Right Side Facing Upstream

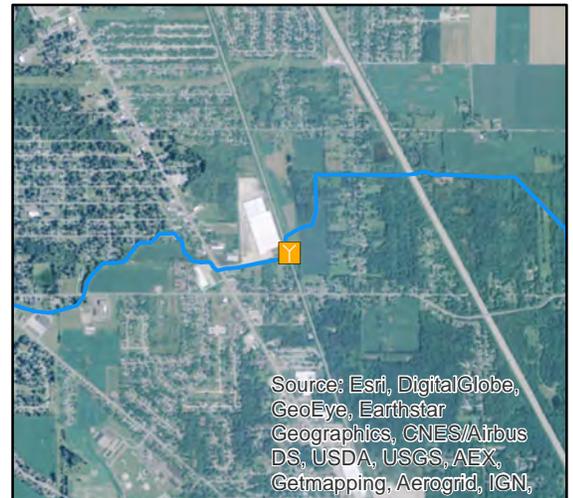
**Width (feet):** 4

**Photo 1 Direction:** South

**Comments:**

Side drain coming due north from the south side of drain at the bend.  
Picture facing south.

**Observation Location:**



**Photo 1**



**Photo 2**

**Photo 3**

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				JOB #:	20160331

# King Street Tile Drain Inspections

Inspection Report for Observation:  
**SideDrain28**

**Flow Direction:** North

**Location:** Right Side Facing Upstream

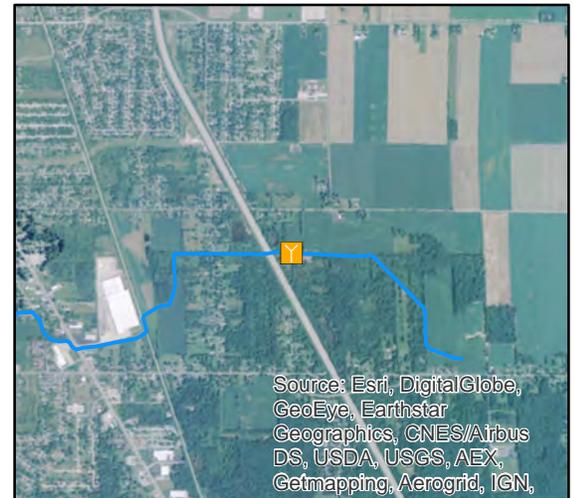
**Width (feet):** 5

**Photo 1 Direction:** South

**Comments:**

Side drain enters drain from right side. 5 ft wide. Flows north.

**Observation Location:**



**Photo 1**



**Photo 2**



**Photo 3**

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# King Street Tile Drain Inspections

Inspection Report for Observation:  
**SideDrain29**

**Flow Direction:** South

**Location:** Left Side Facing Upstream

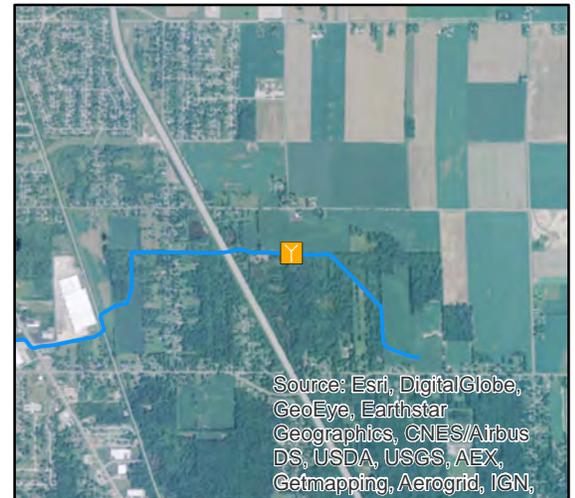
**Width (feet):**

**Photo 1 Direction:** North

**Comments:**

Surface drain for ag field. Assume collapsed field tile outlet but could not locate. Collapsed headwall and erosion. Left side of drain.

**Observation Location:**



**Photo 1**



**Photo 2**



**Photo 3**

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# King Street Tile Drain Inspections

Inspection Report for Observation:  
**SideDrain30**

**Flow Direction:** Southwest

**Location:** Right Side Facing Upstream

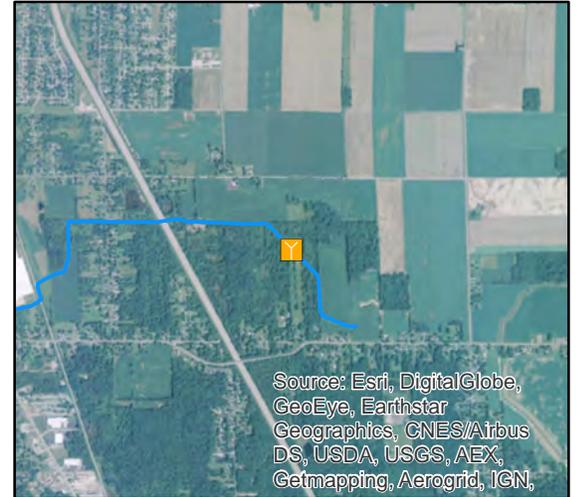
**Width (feet):** 2

**Photo 1 Direction:** Northeast

**Comments:**

Side drain 2 ft wide enters drain on right. Looks like it is difficult draining grassy field, but might just be a deer run.

**Observation Location:**



**Photo 1**



**Photo 2**



**Photo 3**

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# King Street Tile Drain Inspections

Inspection Report for Observation:  
**SideDrain31**

**Flow Direction:** Southwest

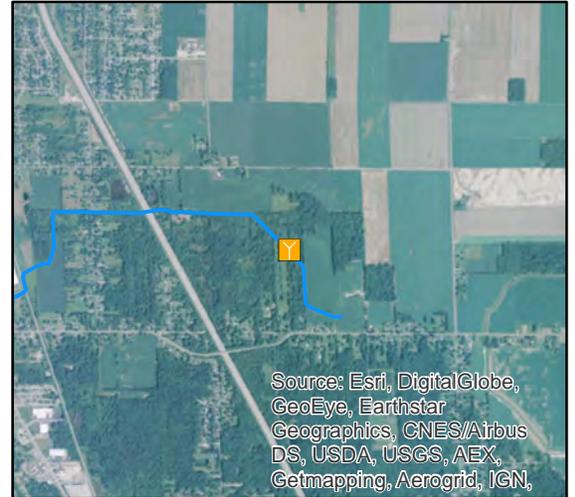
**Location:** Left Side Facing Upstream

**Width (feet):** 3

**Photo 1 Direction:** Northeast

**Comments:**  
Side drain enters on left on downstream side of farm crossing.

**Observation Location:**



**Photo 1**



**Photo 2**



**Photo 3**

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				JOB #:	20160331

# King Street Tile Drain Inspections

Inspection Report for Observation:  
**SideDrain32**

**Flow Direction:** South

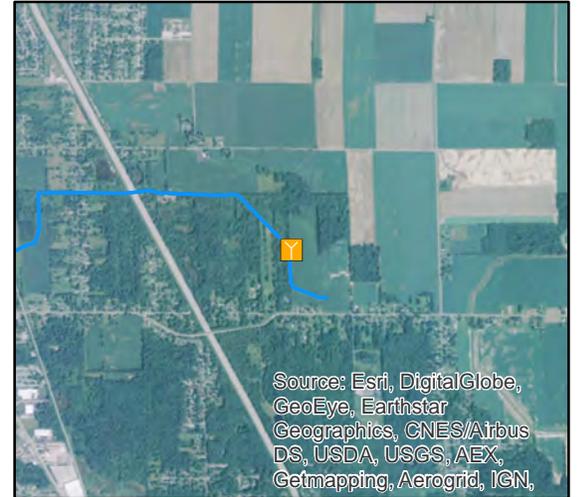
**Location:** Left Side Facing Upstream

**Width (feet):** 2

**Photo 1 Direction:**

**Comments:**  
2' side drain left side. Picture facing North

**Observation Location:**



**Photo 1**



**Photo 2**

**Photo 3**

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# King Street Tile Drain Inspections

Inspection Report for Observation:  
**SideDrain33**

**Flow Direction:** North

**Location:** Left Side Facing Upstream

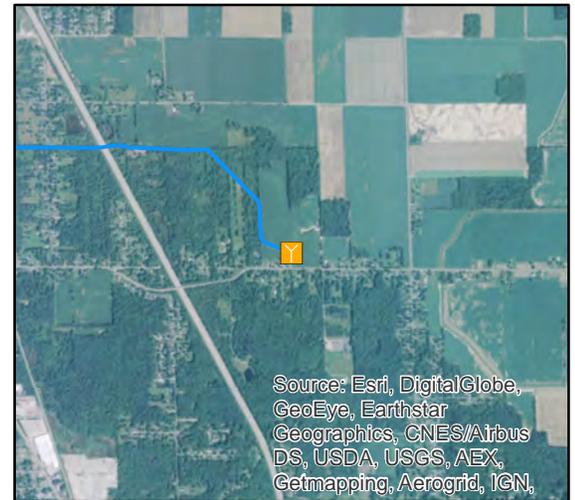
**Width (feet):** 3

**Photo 1 Direction:** North

**Comments:**

3' side drain left side at bend draining low point in agricultural field.  
Picture facing North

**Observation Location:**



**Photo 1**



**Photo 2**

**Photo 3**

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# King Street Tile Drain Inspections

Inspection Report for Observation:  
**SideDrain34**

**Flow Direction:** East

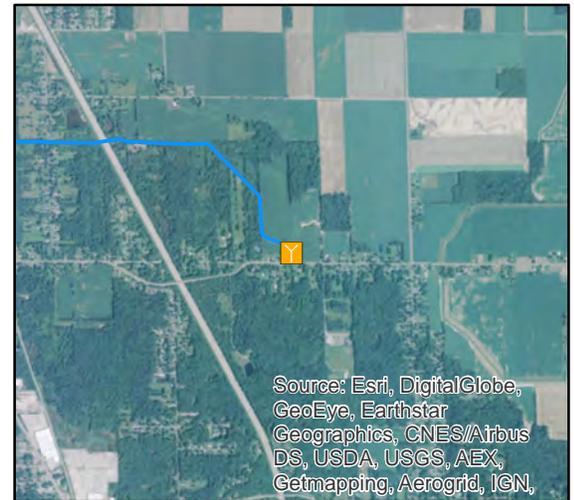
**Location:** Right Side Facing Upstream

**Width (feet):** 2

**Photo 1 Direction:** East

**Comments:**  
2' side drain right side. Picture facing East.

**Observation Location:**



**Photo 1**



**Photo 2**

**Photo 3**

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# King Street Tile Drain Inspections

Inspection Report for Observation:  
**SideDrain35**

**Flow Direction:** West

**Location:** Left Side Facing Upstream

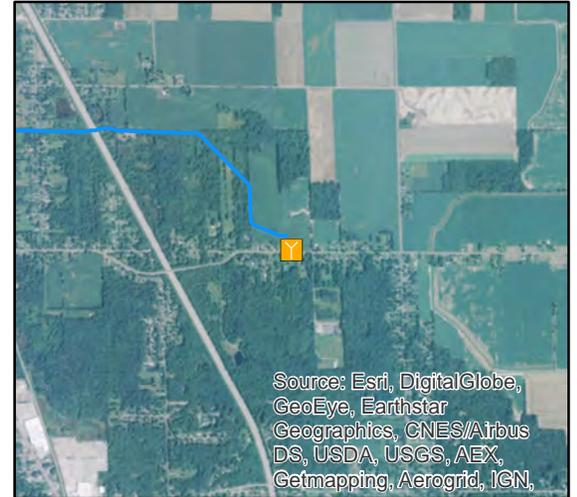
**Width (feet):** 4

**Photo 1 Direction:** Facing Upstream

**Comments:**

4' wide side drain (county road ditch) coming in the left side of drain facing upstream from the east. Picture one facing upstream. Picture two facing west toward drain.

**Observation Location:**



**Photo 1**



**Photo 2**



**Photo 3**

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