

# Bridge Inspection Report

**03583**

**SH 23 Madison Co.**

**over**

**WAR EAGLE CREEK**



**Inspection Date:**

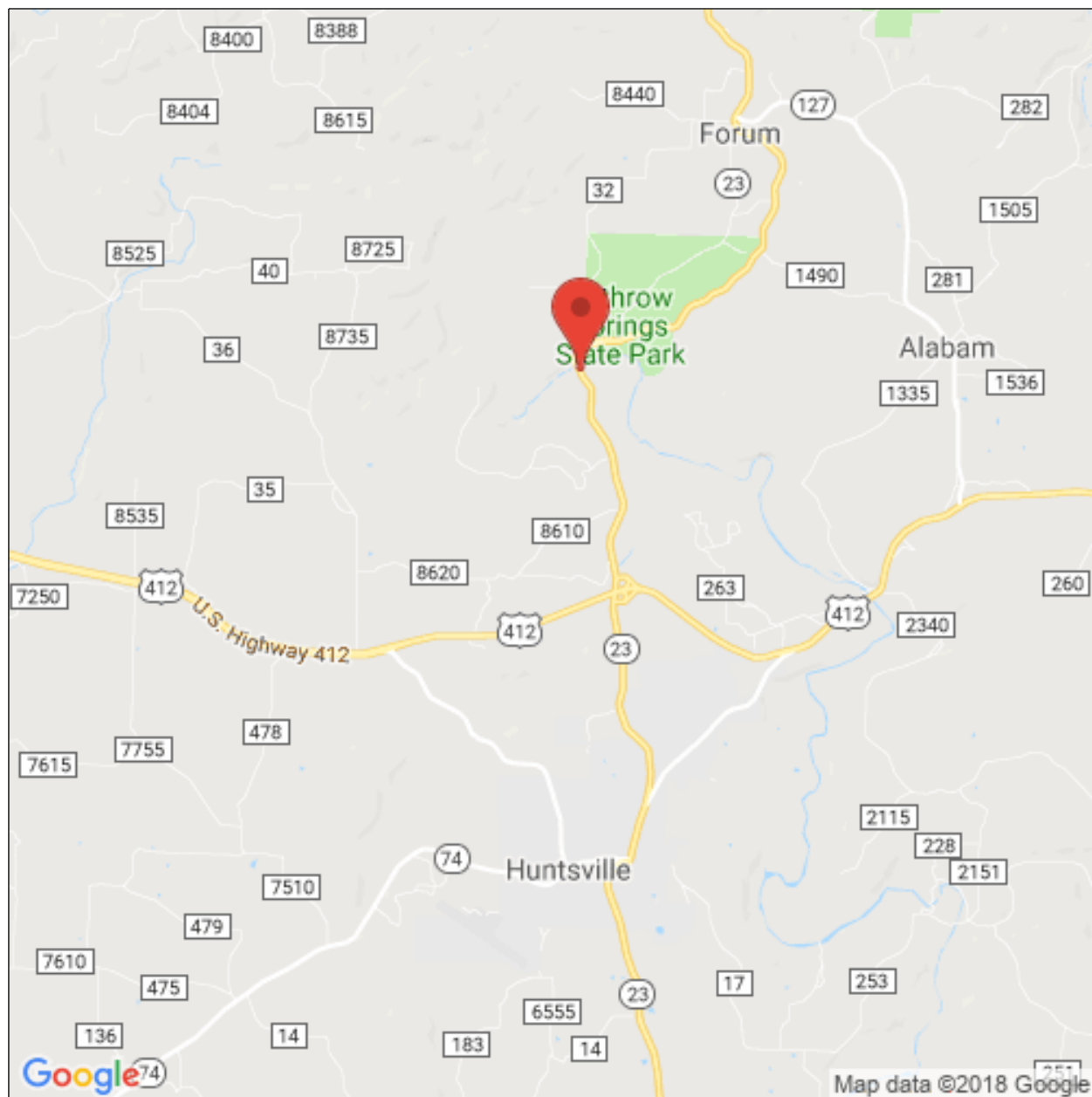
**Inspected By:**

**Inspection Type(s):**

**Structure Number:** 03583

**Facility Carried:** SH 23 Madison Co.

## Location Map



**Longitude: -93.73933**

Inspector:

Structure Number: 03583

Inspection Date:

Facility Carried: SH 23 Madison Co.

## Bridge Inspection Report

### Location Map



Latitude: 36.14942

Longitude: -93.73933



Inspector:

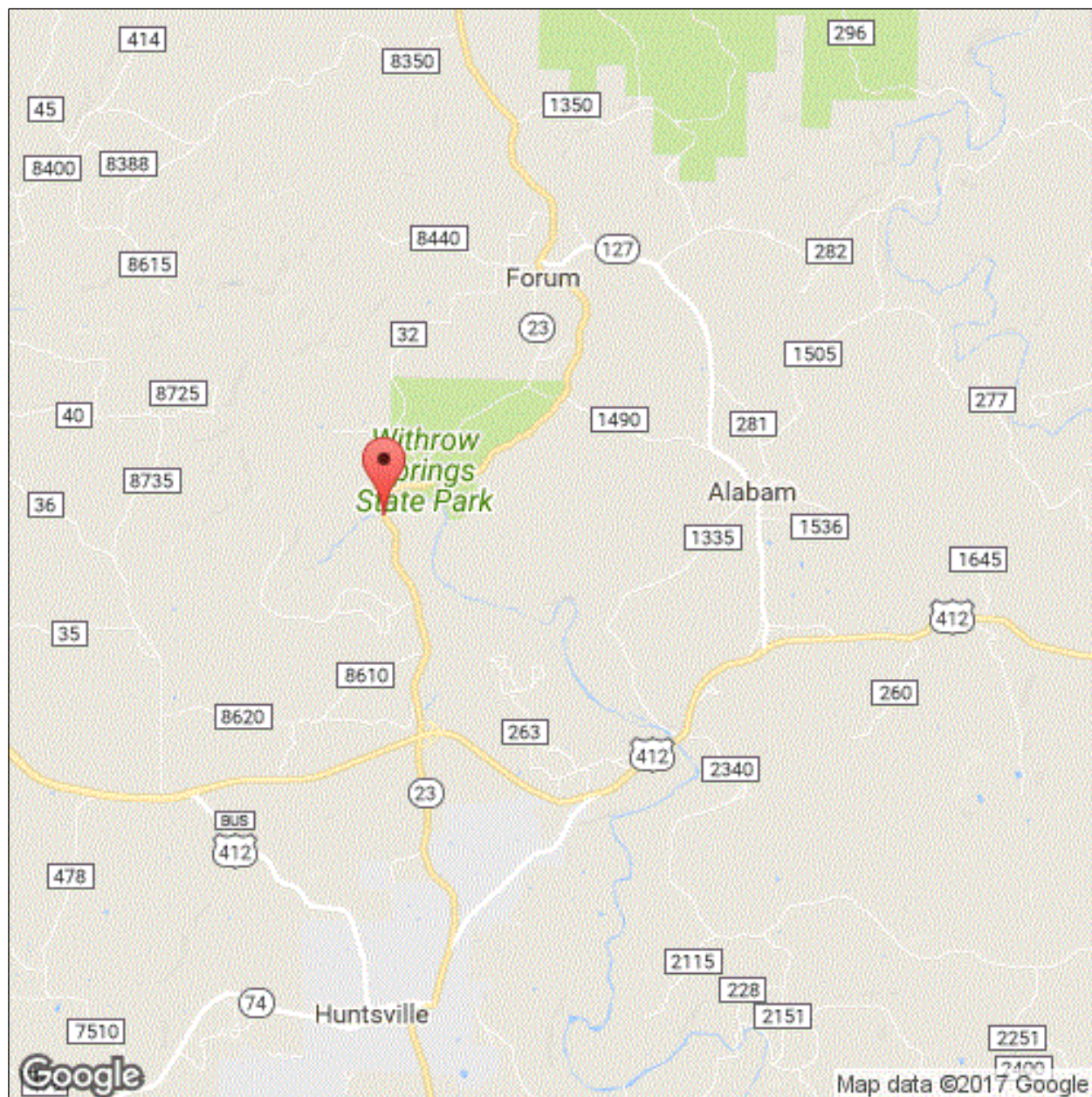
Structure Number: 03583

Inspection Date:

Facility Carried: SH 23 Madison Co.

### Bridge Inspection Report

### Location Map



Latitude: 36.14942

Longitude: -93.73933



Inspector:

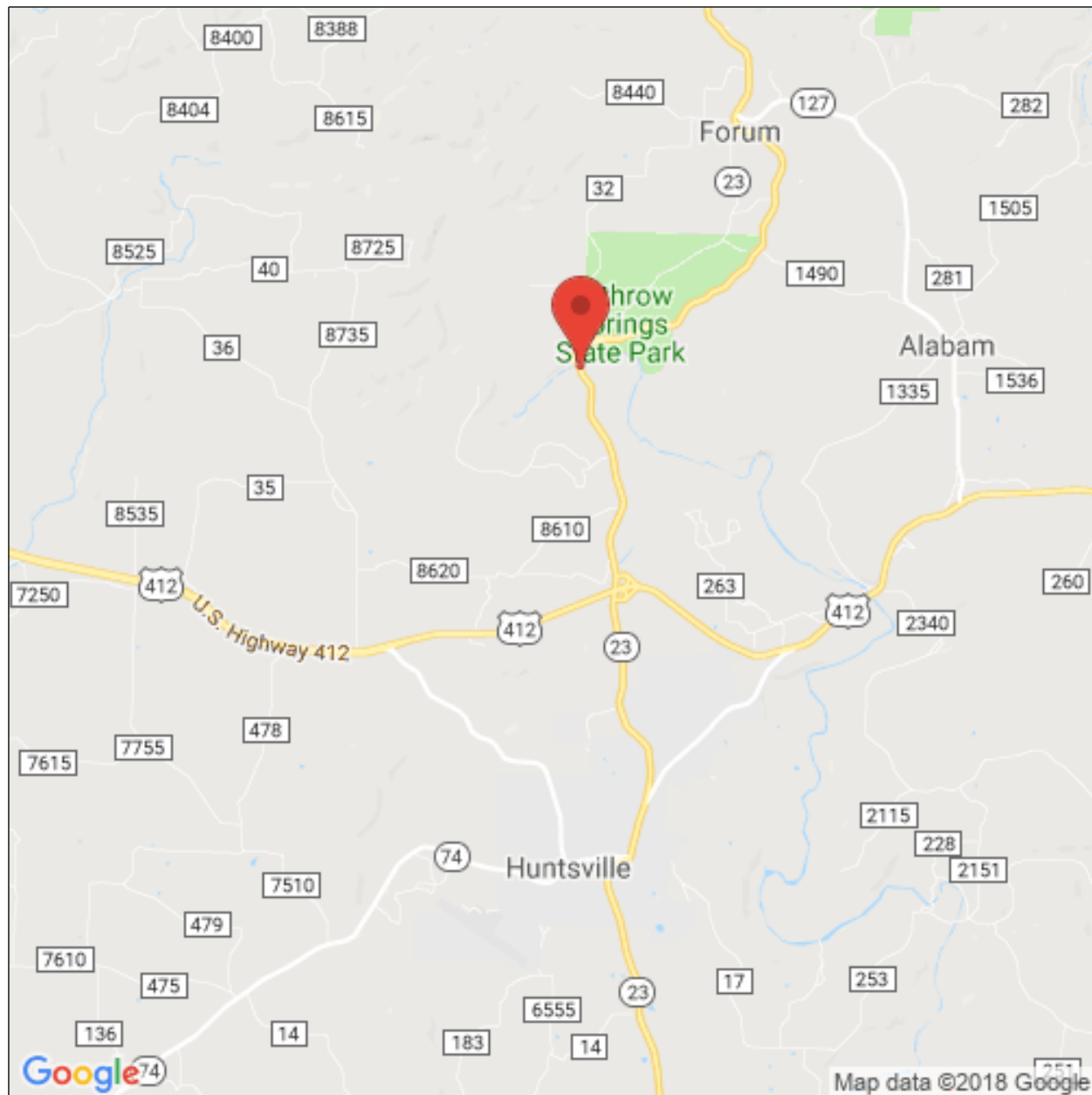
Structure Number: 03583

Inspection Date:

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## Bridge Inspection Report

### Location Map



Latitude: 36.14942

Longitude: -93.73933

Inspector:

Structure Number: 03583

Inspection Date:

Facility Carried: SH 23 Madison Co.

## Bridge Inspection Report

### Maintenance Needs

Date Reported: 12/17/2015

Priority: C - Important

Work Code:

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#### Deficiency Description:

Deck surface:

The driving surface in all spans have numerous spalled, patched, and delaminated areas in random locations. The worst cases are span #4 right lane approximately 4' from bent #3 which has a basketball sized pothole approximately 3" deep. Span #5 near mid-span adjacent to left gutter has area that has fractured and is starting to come apart creating a large pothole in the driving surface with exposed reinforcing steel. Maintenance forces have patched with asphalt mix during inspection.

Undersurface of deck has areas of mapcracking with heavy efflorescence that are delaminated in locations. The undersurface has several areas of spalls with steel exposed. The most notable areas are span #4, bays #1 and #4 which has moderate sized areas of spalling with exposed reinforcing steel.

#### Work Description:

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Date Repairs Completed:

Maintenance Comments:

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Stage: Assigned



PHOTO 1 Description

Stage: Assigned



PHOTO 2 Description



Inspector:

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## Bridge Inspection Report

### Maintenance Needs

Stage: Assigned



PHOTO 3 Description

Stage: Assigned



PHOTO 4 Description

Stage: Assigned



PHOTO 5 Description

Span #3 left lane 2 spalls approximately 3' deep 20' behind bent #3 asphalt patches failing at this inspection.

Stage: Assigned



PHOTO 6 Description

Span #5 left lane approximately 12' behind bent #5 asphalt and concrete patch rubblized.



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### Maintenance Needs

Stage: Assigned



PHOTO 7      Description      Span #5 left asphalt patches area steel exposed.

Stage: Assigned



PHOTO 8      Description      Span #3 multiple spalls at or near centerline asphalt patches failing at this inspection.



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### Bridge Inspection Report

## Maintenance Needs

Date Reported: 12/17/2015

Priority: C - Important

Work Code:

---

### Deficiency Description:

Piers #1 - #6 concrete cap has delaminations, spalls and steel exposed areas.

Piers #4 & #5 columns #1 & #2 have spalls with primary steel exposed in random locations.

### Work Description:

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Date Repairs Completed:

Maintenance Comments:

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Stage: Monitor



PHOTO 1      Description      Bent 1 cap spalling with steel exposed left on the span 1 side bay 1.

Stage: Monitor



PHOTO 2      Description      Spalls with exposed rebar on the left column of bent #5.



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## Bridge Inspection Report

### Maintenance Needs

Stage: Monitor



PHOTO 3 Description Bent 4 pier wall ahead side spalling with steel exposed.

Stage: Monitor



PHOTO 5 Description Bent #4 Column #2 ahead side spalling with steel exposed.

Stage: Monitor



PHOTO 4 Description Bent 4 column 2 ahead side spalling with primary steel exposed with section loss.



PHOTO 6 Description Bent 4 column 1 ahead side base of column has large spalls due to concrete deterioration.



Inspector:

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Inspection Date:

Facility Carried: SH 23 Madison Co.

## Bridge Inspection Report

### Maintenance Needs

Date Reported: 12/17/2015

Priority: D - Routine

Work Code:

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#### Deficiency Description:

Steel superstructure throughout all spans has active corrosion with section loss. The most affected areas are the beam ends and top flanges adjacent to deck drains.

#### Work Description:

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Date Repairs Completed:

Maintenance Comments:

---

Stage: Assigned



PHOTO 1      Description      Steel superstructure thru-out all spans-  
Visible rust and corrosion.

Stage: Assigned



PHOTO 2      Description

Inspector:

Structure Number: 03583

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## Bridge Inspection Report

### Maintenance Needs

Stage: Assigned



PHOTO 3 Description

Stage: Assigned



PHOTO 4 Description

Stage: Assigned



PHOTO 5 Description

Stage: Assigned



PHOTO 6 Description



Inspector:

Structure Number: 03583

Inspection Date:

Facility Carried: SH 23 Madison Co.

## Bridge Inspection Report

### Maintenance Needs

Date Reported: 12/14/2017

Priority: C - Important

Work Code:

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#### Deficiency Description:

Deck - Abutment #1 & Bent #1 sliding plate joint assemblies have debris impaction due to chip-n-seal maintenance activities.

#### Work Description:

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Date Repairs Completed:

Maintenance Comments:

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Stage: Open



PHOTO 1      Description      Abutment #1 & Bent #1 sliding plate joint assemblies have debris impaction due to chip-n-seal maintenance activities.

Stage: Monitor



PHOTO 2      Description      Bent #5 has debris blocking the flow of water for sliding plate assembly.



Inspector:

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Facility Carried: SH 23 Madison Co.

## Bridge Inspection Report

### Maintenance Needs

Stage: Monitor



PHOTO 3      Description      Bent #2 joint assembly debris impaction.

Stage: Open



PHOTO 4      Description      Abutment #1 & Bent #1 sliding plate joint assemblies have debris impaction due to chip-n-seal maintenance activities.



Inspector:

Structure Number: 03583

Inspection Date:

Facility Carried: SH 23 Madison Co.

## Bridge Inspection Report

### Maintenance Needs

Date Reported: 12/19/2017

Priority: D - Routine

Work Code:

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#### Deficiency Description:

Superstructure - Span #6, bearings #2 and #3 at bent #5 have one displaced anchor bolt due to corrosion.

#### Work Description:

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Date Repairs Completed:

Maintenance Comments:

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Stage: Open



PHOTO 1      Description      Span #6, bearings #2 and #3 at bent #5 have one displaced anchor bolt due to corrosion.

Inspector:

Structure Number: 03583

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## Bridge Inspection Report

### Maintenance Needs

Date Reported: 12/19/2017

Priority: D - Routine

Work Code:

---

#### Deficiency Description:

Substructure - Bent #4 has a 20' x 20' scour hole at the base of column #2 that is approximately 2'-2" deep. The footing is not exposed at this inspection.

#### Work Description:

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Date Repairs Completed:

Maintenance Comments:

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Stage: Open



PHOTO 1      Description      20' x 20' wide local scour at the base of column #2.