



## Oconee County Board of Commissioners

### Addendum 3

DATE: January 19, 2021  
TO: All Prospective Bidders/Offerors  
FROM: Finance Director  
RE: Addendum 3, ITB# 21-12-011 Bridge Repairs

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The following changes are to be incorporated into the solicitation documents dated **December 30, 2020**. All those receiving this addendum should modify their documents to show the below described changes.

- 1. Included you will find the most recent Bridge Inspection Reports for the 9 bridges included in the Scope of Work.**

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All questions shall be directed to the Owner Contact Jessica Ellis, Procurement Officer.

Email: [ocbids@oconee.ga.us](mailto:ocbids@oconee.ga.us)

(END OF ADDENDUM 3)

Please note addendum 3 on the addenda acknowledgement form located in the ITB package.

# Georgia Department of Transportation

## Bridge Inspection Report

**District:** 4841100000 - D1 DISTRICT

**Inspection Area:** 2

**County:** Oconee

**Location ID:** 219-00517X-000.40N

**Over:** MCNUTT CREEK

**Structure ID:** 219-0007-0

**Road Name:** OLD SR 15

**Bridge Information:** 4-Existing structure rehabilitated (BH type project)



**District:** 4841100000 - D1 DISTRICT  
**Location ID:** 219-00517X-000.40N  
**Structure ID:** 219-0007-0

**Inspection Area:** 2  
**Over:** MCNUTT CREEK  
**Road Name:** OLD SR 15

**County:** Oconee

## Evaluation

**Topside Inspection Team**                      **Inspection Type:** General                      **Inspection Date:** 08/21/2019  
**Team Leader:** Vinson Thomas Tanner  
**Assistants:** Billy Lanthrip

### Deck

**NBIS Condition** 6 - Satisfactory Condition                      **Material:** O. Concrete

**Deck Wearing Surface Type:** 1. Concrete

8.3" thick concrete deck on steel stay-in-place forms.

All spans have up to 1/64" wide shrinkage, transverse and longitudinal cracking; most are sealed.

The deck underside in Span 1 has a 20" x 16" x 1" spall/delamination with exposed rebar, between Beams 1-4 and 1-5, 20' from abutment 1.

The deck underside in Span 2 has an 8' x 3' x 2" spall/delamination with exposed rebar with 40% section loss, 30' from Bent 3.

The deck top in Span 4 at the construction joint has a 12" x 12" x 2" spall.

The deck underside in Span 4 has a 4' x 3' x 2" spall/delamination with exposed rebar with 40% section loss, 20' from Bent 4.

The deck underside in Span 4 has a 4' x 12" x 2" spall/delamination with exposed rebar, 11' from Abutment 5.

The deck underside in Span 4 has a 6' x 3' x 2" spall/delamination with exposed rebar, 3' from Abutment 5.

### Superstructure

**NBIS Condition** 7 - Good Condition                      **Material:** M. Steel                      **Year Painted:** 2007

**Paint Type :** 5- Waterborne System (Type VI or VII)

**Temperature (F):**

Steel beams (continuous) spliced rear and forward of Bents 2, 3 and 4.

Deeper webs (Fish belly) over the bents.

Steel diaphragms welded at 90 degrees.

#### BEAMS:

Beams have waterborne paint and in good condition.

#### BEARINGS:

Bearings have waterborne paint and in good condition.

All bearing assemblies are slightly out of plumb.

#### DIAPHRAGMS:

The diaphragms at both abutments have up to 1/64" wide cracks, with light efflorescence forming at Abutment 1.

The diaphragms have delaminations up to 2' long x 6" wide throughout.

### Substructure

**NBIS Condition** 7 - Good Condition                      **Material:** O. Concrete                      **Year Painted:** 0000

**Paint Type :** 0- Not Applicable

Abutments have 12" steel H-piles and concrete caps

Bent 2 has spread footers, concrete columns and concrete cap

Bents 3 and 4 have 14" steel H-pile footers, concrete columns and concrete caps

#### ABUTMENTS:

Both abutment caps have up to 1/64" wide vertical cracks

Minor settlement at abutment 5.

#### COLUMNS:

Columns at Bent 3 have minor abrasion at the waterline.

### General

#### This Bridge:

Was SR 15 (219-00015D-015.38N), route was moved to a new road just to the West. It is now CR 517 and called: Old SR 15.

The bridge rails have cracking with efflorescence throughout.

The bridge rails in spans 2 and 3 have spalls with exposed rebar.

Trees and bushes are overgrown around the structure.

**District:** 4841100000 - D1 DISTRICT  
**Location ID:** 219-00517X-000.40N  
**Structure ID:** 219-0007-0

**Inspection Area:** 2  
**Over:** MCNUTT CREEK  
**Road Name:** OLD SR 15

**County:** Oconee

Specialized team inspected bents 2-4 and spans 2 and 3.

Data entered by: Billy Lanthrip

### Conditional Situations

**Confined Space:** No

**Traffic Control Needed:** Yes

### Equipment Used

**Access Equipment:** None

**Topside Boat:** None

**Waders:** None

**Special Imaging Device:** None

### Load Rating and Posting

Truck Type	Gross/H-Modified	HModified	Tandem	3-S-2	Log	Piggy
Calculated Posting	21	30	33	40	37	00
Posting Required	No	No	No	No	No	No
Existing Posting	00	00	00	00	00	00

**Item 103 Temporarily Shored :** No

**Posting Required:** No

**Item 41 - Structure Open, Posted or Closed:** A. Open, no restriction

### Element Data

Element	Parent Element	Measurement Unit	Env*	Quantity	State 1	State 2	State 3	State 4
12-Reinforced Concrete Deck		SQUARE FEET	2	19082	14980	4000	102	
107-Steel Open Web Girder/Beam		Linear Foot	2	2506	2506			
515-Steel Protective Coating (107)	107-Steel Open Web Girder/Beam	SQUARE FEET	2	21828	21828			
205-Reinforced Conc Column		Each	2	6	4	2		
215-Reinforced Conc Abutment		Linear Foot	2	112	92	20		
234-Reinforced Conc Pier Cap		Linear Foot	2	138	138			
301-Pourable Joint Seal		Linear Foot	2	250	250			
311-Movable Bearing		Each	2	28	28			
515-Steel Protective Coating (311)	311-Movable Bearing	SQUARE FEET	2	56	56			
313-Fixed Bearing		Each	2	7	7			
515-Steel Protective Coating (313)	313-Fixed Bearing	SQUARE FEET	2	14	14			
321-Reinforced Concrete Approach Slab		SQUARE FEET	2	3198	2638	560		
331-Reinforced Concrete Bridge Railing		Linear Foot	2	716	290	420	6	

**Env\* = Environment**

**District:** 4841100000 - D1 DISTRICT  
**Location ID:** 219-00517X-000.40N  
**Structure ID:** 219-0007-0

**Inspection Area:** 2  
**Over:** MCNUTT CREEK  
**Road Name:** OLD SR 15

**County:** Oconee

***Defects***

Element	Defect	State 2	State 3	State 4
12-Reinforced Concrete Deck	Exposed Rebar		31	
12-Reinforced Concrete Deck	Delamination/Spall/Patched Area		71	
12-Reinforced Concrete Deck	Cracking (RC and Other)	4000		
205-Reinforced Conc Column	Abrasion/Wear (PSC/RC)	2		
215-Reinforced Conc Abutment	Cracking (RC and Other)	20		
321-Reinforced Concrete Approach Slab	Cracking (RC and Other)	560		
331-Reinforced Concrete Bridge Railing	Efflorescence/Rust Staining	120		
331-Reinforced Concrete Bridge Railing	Delamination/Spall/Patched Area		3	
331-Reinforced Concrete Bridge Railing	Cracking (RC and Other)	300		
331-Reinforced Concrete Bridge Railing	Exposed Rebar		3	

***Maintenance Items***

Activity	Work Quantity	Priority	Location	Inspection Date	Completion Date	Comments
520 - BRUSH AND TREE CUTTING (PERSON HOURS)	14	C	Whole structure			Cut bushes
810 - DECK REPAIR (SQUARE FEET)	28	B	Deck top and underside	11/15/1999		Repair spalls with exposed rebar in spans 2 and 4

**District:** 4841100000 - D1 DISTRICT  
**Location ID:** 219-00517X-000.40N  
**Structure ID:** 219-0007-0

**Inspection Area:** 2  
**Over:** MCNUTT CREEK  
**Road Name:** OLD SR 15

**County:** Oconee

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## *Specialized Inspection*

### Inspection Team

**Team Leader :** Charles I. Blue II

**Inspection Date :** 06/22/2016

**Assistants :** Joe Walker, Larry Mullis

### Deck

**NBIS Condition Code :** 5 - Fair Condition

Inspected the underside of spans 2 and 3.

The underside of the deck is covered by corrugated metal deck forms in bays 1,2,3,5 and 6.

Underside:

Bay 4 has minor transverse cracking throughout.

Span 2, bay 4 has a 8' x 3' spall/delamination with exposed rebar, 30' rear of bent 3.

Span 4, bay 4 has a 4' x 3' spall/delamination with exposed rebar, 20' forward of bent 4.

Span 4, bay 4 has a 4' x 12' spall/delamination with exposed rebar, 11' rear of abutment 5.

Span 4, bay 4 has a 6' x 3' spall/delamination with exposed rebar, 3' rear of abutment 5.

### Superstructure

**NBIS Condition Code :** 7 - Good Condition

Inspected spans 2 and 3.

Spans 2 and 3 have seven W36 x 135 steel beams on 8' spacings.

Beams deepen over the bents.

There were no problems found in the superstructure at time of specialized inspection.

### Substructure

**NBIS Condition Code :** 7 - Good Condition

Inspected bents 2-4.

Each bent has two concrete caps, each having one 63" x 63" concrete column.

Left cap is 63"W x 55"D x 27'L

Right cap is 63"W x 55"D x 19'L

Caps have minor vertical cracks

Bent 3 columns have minor abrasion at the waterline.

### Conditional Situations

**Confined Space:** No

**Traffic Control Needed:** Yes

### Equipment Used

**Access Equipment:** 35' Hydra-platform

**Special Imaging Device:** None

**District:** 4841100000 - D1 DISTRICT

**Inspection Area:** 2

**County:** Oconee

**Location ID:** 219-00517X-000.40N

**Over:** MCNUTT CREEK

**Structure ID:** 219-0007-0

**Road Name:** OLD SR 15

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**No Other Special Inspection performed on this bridge.**

**District:** 4841100000 - D1 DISTRICT

**Inspection Area:** 2

**County:** Oconee

**Location ID:** 219-00517X-000.40N

**Over:** MCNUTT CREEK

**Structure ID:** 219-0007-0

**Road Name:** OLD SR 15

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**No Fracture Critical Inspection performed on this bridge.**



District: 4841100000 - D1 DISTRICT  
Location ID: 219-00517X-000.40N  
Structure ID: 219-0007-0

Inspection Area: 2  
Over: MCNUTT CREEK  
Road Name: OLD SR 15

County: Oconee

***Bridge Components***  
***Superstructure Data***

Span #	Beam Type	Beam Spacing	Length	# Beams	Remarks
1	Steel	8	79	7	W36 x 135
2	Steel	8	100	7	W36 x 135
3	Steel	8	100	7	W36 x 135
4	Steel	8	79	7	W36 x 135

***Bearing Data***

Span #	Rear Type Bearing	Forward Type Bearing	Remarks
1	01 - Sliding Plate	10 - Continuous	
2	01 - Sliding Plate	10 - Continuous	
3	02 - Fixed Plate	10 - Continuous	
4	01 - Sliding Plate	01 - Sliding Plate	

**District:** 4841100000 - D1 DISTRICT

**Inspection Area:** 2

**County:** Oconee

**Location ID:** 219-00517X-000.40N

**Over:** MCNUTT CREEK

**Structure ID:** 219-0007-0

**Road Name:** OLD SR 15

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**This bridge has no intersected feature.**

**District:** 4841100000 - D1 DISTRICT

**Inspection Area:** 2

**County:** Oconee

**Location ID:** 219-00517X-000.40N

**Over:** MCNUTT CREEK

**Structure ID:** 219-0007-0

**Road Name:** OLD SR 15

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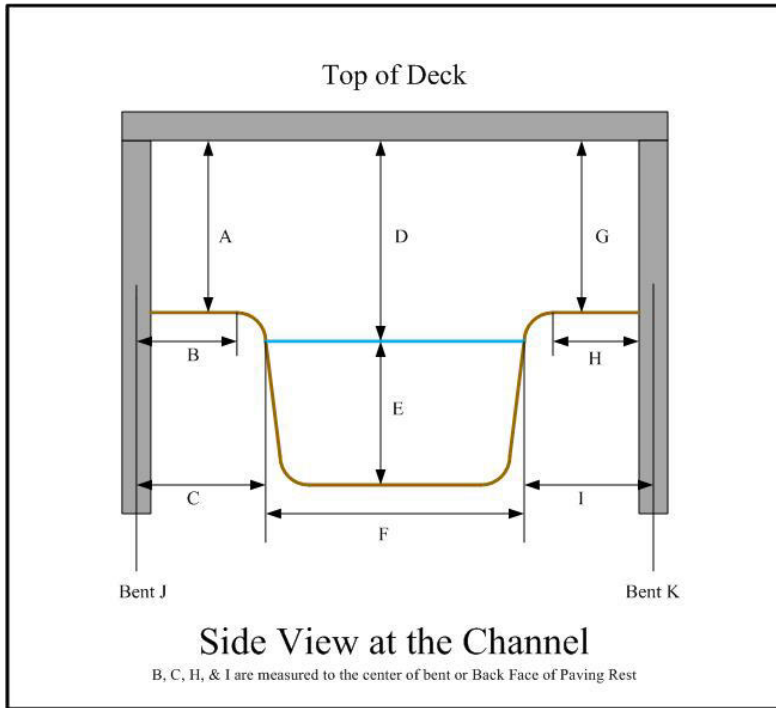
**No Underwater Inspection performed on this bridge.**

**District:** 4841100000 - D1 DISTRICT  
**Location ID:** 219-00517X-000.40N  
**Structure ID:** 219-0007-0

**Inspection Area:** 2  
**Over:** MCNUTT CREEK  
**Road Name:** OLD SR 15

**County:** Oconee

**Waterway Information**



- A :** 42.5
- B :** 78.2
- C :** 105.1
- D :** 44.0
- E :** 1.0
- F :** 43
- G :** 35.7
- H :** 44.3
- I :** 59.7
- J :** 2
- K :** 4

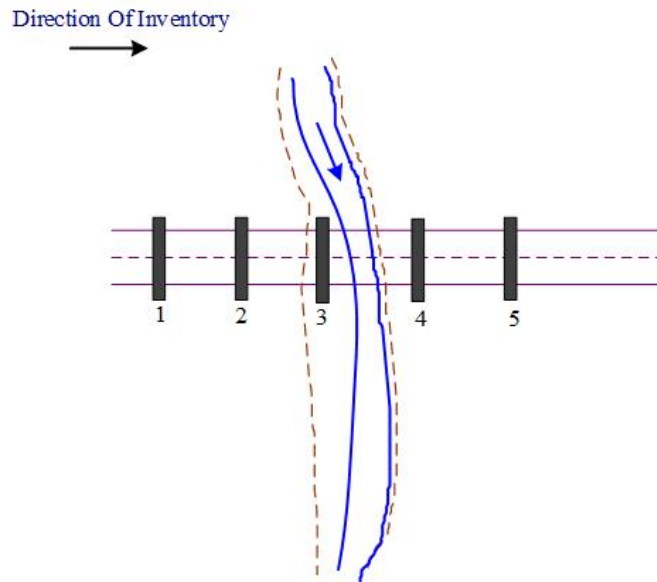
**Location of Bridge Height :** 32' forward of bent 3  
**Bridge Height Taken:** UPSTREAM  
**Scour Condition :** 8  
**Waterway Adequacy :** 9  
**Channel Protection :** 6

**Comments :**

**Substructure Skew =** 0

**Channel Skew =** 10

**Stream Angle =** 10



**District:** 4841100000 - D1 DISTRICT  
**Location ID:** 219-00517X-000.40N  
**Structure ID:** 219-0007-0

**Inspection Area:** 2  
**Over:** MCNUTT CREEK  
**Road Name:** OLD SR 15

**County:** Oconee

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***Collision Information***

**Beam Type :**

**Span # with Beam Damage :**

**Total # of Beams in Span :**

**# of Damaged Beams :**

**Minimum Vertical Clearance :** ft - in

**Actual Vertical Clearance at  
Point of Impact :** ft - in

**Posted Vertical Clearance :** ft - in

**Report Type :**

**Report Date :**

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**Damage Location in Span :**

**Damage Type :**

**Damage Details :**

**Repairs Required :** No

**Repairs Made :** No

**Repair Details :**

**Additional Comments :**

*Photographs*

IMG\_1508.JPG



Water Utility

IMG\_1511.JPG



Spall/delamination with exposed rebar in deck underside in span 4.

IMG\_1512.JPG



Typical spall with exposed rebar in the barrier walls in span 2

IMG\_1509.JPG



Looking South

IMG\_1507.JPG



Spall in span 4

IMG\_1506.JPG



Looking North

District: 4841100000 - D1 DISTRICT

Inspection Area: 2

County: Oconee

Location ID: 219-00517X-000.40N

Over: MCNUTT CREEK

Structure ID: 219-0007-0

Road Name: OLD SR 15

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*Photographs*

IMG\_1510.JPG



Downstream, Looking South

# Georgia Department of Transportation

## Bridge Inspection Report

**District:** 4841100000 - D1 DISTRICT

**Inspection Area:** 2

**County:** Oconee

**Location ID:** 219-01267F-006.10N

**Over:** MCNUTT CREEK

**Structure ID:** 219-0011-0

**Road Name:** MARS HILL ROAD

**Bridge Information:** 6-Revised inventory or operating ratings; load limits





**District:** 4841100000 - D1 DISTRICT  
**Location ID:** 219-01267F-006.10N  
**Structure ID:** 219-0011-0

**Inspection Area:** 2  
**Over:** MCNUTT CREEK  
**Road Name:** MARS HILL ROAD

**County:** Oconee

## Evaluation

**Topside Inspection Team**                      **Inspection Type:** General                      **Inspection Date:** 07/31/2019  
**Team Leader:** Vinson Thomas Tanner  
**Assistants:** Billy Lanthrip

### Deck

**NBIS Condition** 5 - Fair Condition                      **Material:** O. Concrete

**Deck Wearing Surface Type:** 1. Concrete

Concrete deck

All spans have numerous minor to moderate shrinkage cracks. +/-1/8" wide.  
All spans have abrasion throughout.  
All spans have hairline cracking on the bottom.

### Superstructure

**NBIS Condition** 6 - Satisfactory Condition                      **Material:** O. Concrete

**Year Painted:** 0000

**Paint Type :** 0- Not Applicable

**Temperature (F):**

Concrete T beams

Beams have typical deflection cracks.  
Beam 2, forward of bent 2, has hairline cracking.  
High chairs exposed on the bottom of the beams, minor.  
Both end walls have minor cracking.

Georgia standard number 3559 A and B (modified).

### Substructure

**NBIS Condition** 6 - Satisfactory Condition                      **Material:** O. Concrete

**Year Painted:** 0000

**Paint Type :** 0- Not Applicable

Abutments and bents - 14" PSC piling and concrete caps

Both abutment caps have hairline vertical cracking.  
Caps at bents 2 and 3 have hairline cracking, mostly shrinkage cracks.  
High chairs exposed on the bottom of the cap at bents 2 and 3, minor.  
Minor scaling on the piles at bent 3.  
Minor settlement under abutment 4 exposing 2 PSC piling - +/-3".  
Needs additional rip rap placed on the North end roll.

Georgia standard number for piles 3255

### General

#### This Bridge:

Mars Hill Road over McNutt Creek  
Minor pop outs with exposed rebar in the concrete handrail.  
The bushes around the structure are overgrown.

Data entered by: Billy Lanthrip

### Conditional Situations

**Confined Space:** No

**Traffic Control Needed:** No

District: 4841100000 - D1 DISTRICT  
 Location ID: 219-01267F-006.10N  
 Structure ID: 219-0011-0

Inspection Area: 2 County: Oconee  
 Over: MCNUTT CREEK  
 Road Name: MARS HILL ROAD

### Equipment Used

Access Equipment: None

Topside Boat: None

Waders: Hip boots

Special Imaging Device: None

### Load Rating and Posting

Truck Type	Gross/H-Modified	HSMModified	Tandem	3-S-2	Log	Piggy
Calculated Posting	19	25	19	31	28	00
Posting Required	No	No	No	No	No	No
Existing Posting	00	00	00	00	00	00

Item 103 Temporarily Shored : No

Posting Required: No

Item 41 - Structure Open, Posted or Closed: A. Open, no restriction

### Element Data

Element	Parent Element	Measurement Unit	Env*	Quantity	State 1	State 2	State 3	State 4
16-Reinforced Concrete Top Flange		SQUARE FEET	2	2697	134	2502	61	
110-Reinforced Conc Open Girder/Beam		Linear Foot	2	336	193	143		
215-Reinforced Conc Abutment		Linear Foot	2	72	56	16		
226-P/S Conc Pile		Each	2	8	6	2		
234-Reinforced Conc Pier Cap		Linear Foot	2	60	49	11		
301-Pourable Joint Seal		Linear Foot	2	104	104			
331-Reinforced Concrete Bridge Railing		Linear Foot	2	168	69	99		

Env\* = Environment

### Defects

Element	Defect	State 2	State 3	State 4
110-Reinforced Conc Open Girder/Beam	Cracking (RC and Other)	143		
16-Reinforced Concrete Top Flange	Abrasion/Wear (PSC/RC)	1733		
16-Reinforced Concrete Top Flange	Cracking (RC and Other)	769	61	
215-Reinforced Conc Abutment	Cracking (RC and Other)	16		
226-P/S Conc Pile	Delamination/Spall/Patched Area	2		
234-Reinforced Conc Pier Cap	Cracking (RC and Other)	11		
331-Reinforced Concrete Bridge Railing	Cracking (RC and Other)	85		
331-Reinforced Concrete Bridge Railing	Exposed Rebar	7		
331-Reinforced Concrete Bridge Railing	Delamination/Spall/Patched Area	7		

District: 4841100000 - D1 DISTRICT

Inspection Area: 2

County: Oconee

Location ID: 219-01267F-006.10N

Over: MCNUTT CREEK

Structure ID: 219-0011-0

Road Name: MARS HILL ROAD

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*Maintenance Items*

Activity	Work Quantity	Priority	Location	Inspection Date	Completion Date	Comments
520 - BRUSH AND TREE CUTTING (PERSON HOURS)		C	Structure	11/03/2015		Cut the bushes around the structure
845 - OTHER BRIDGE MAINT (PERSON HOURS)		C	Abutment 4	11/03/2015		Repair settlement under abutment 4 cap.
810 - DECK REPAIR (SQUARE FEET)		B	Deck	11/03/2015		Seal shrinkage cracking in the deck.

**District:** 4841100000 - D1 DISTRICT

**Inspection Area:** 2

**County:** Oconee

**Location ID:** 219-01267F-006.10N

**Over:** MCNUTT CREEK

**Structure ID:** 219-0011-0

**Road Name:** MARS HILL ROAD

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**No Specialized Inspection performed on this bridge.**

**District:** 4841100000 - D1 DISTRICT

**Inspection Area:** 2

**County:** Oconee

**Location ID:** 219-01267F-006.10N

**Over:** MCNUTT CREEK

**Structure ID:** 219-0011-0

**Road Name:** MARS HILL ROAD

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**No Other Special Inspection performed on this bridge.**

**District:** 4841100000 - D1 DISTRICT

**Inspection Area:** 2

**County:** Oconee

**Location ID:** 219-01267F-006.10N

**Over:** MCNUTT CREEK

**Structure ID:** 219-0011-0

**Road Name:** MARS HILL ROAD

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**No Fracture Critical Inspection performed on this bridge.**

District: 4841100000 - D1 DISTRICT

Inspection Area: 2

County: Oconee

Location ID: 219-01267F-006.10N

Over: MCNUTT CREEK

Structure ID: 219-0011-0

Road Name: MARS HILL ROAD

***Bridge Components***

***Superstructure Data***

Span #	Beam Type	Beam Spacing	Length	# Beams	Remarks
1	Concrete "T" Beam	7.3	28	4	18"W x 16.5"D
2	Concrete "T" Beam	7.3	28	4	18"W x 16.5"D
3	Concrete "T" Beam	7.3	28	4	18"W x 16.5"D

***Bearing Data***

Span #	Rear Type Bearing	Forward Type Bearing	Remarks
1	08 - Beam on Cap	08 - Beam on Cap	
2	08 - Beam on Cap	08 - Beam on Cap	
3	08 - Beam on Cap	08 - Beam on Cap	

**District:** 4841100000 - D1 DISTRICT

**Inspection Area:** 2

**County:** Oconee

**Location ID:** 219-01267F-006.10N

**Over:** MCNUTT CREEK

**Structure ID:** 219-0011-0

**Road Name:** MARS HILL ROAD

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**This bridge has no intersected feature.**



**District:** 4841100000 - D1 DISTRICT

**Inspection Area:** 2

**County:** Oconee

**Location ID:** 219-01267F-006.10N

**Over:** MCNUTT CREEK

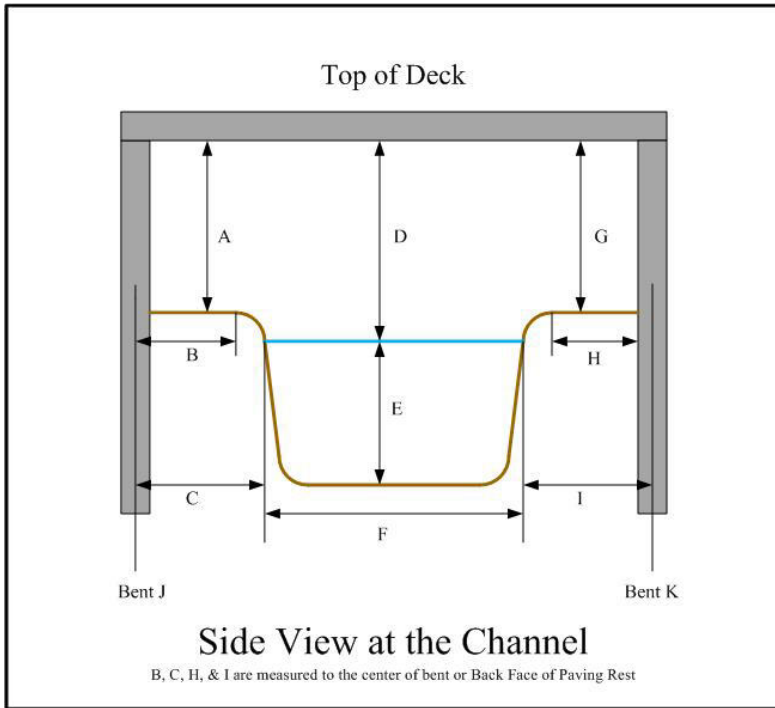
**Structure ID:** 219-0011-0

**Road Name:** MARS HILL ROAD

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**No Underwater Inspection performed on this bridge.**

**Waterway Information**



- A : 7.3
- B : 4
- C : 7
- D : 10.7
- E : 0.5
- F : 14
- G : 7.9
- H : 0
- I :
- J : 2
- K : 4

- Location of Bridge Height : 2' rear of bent 3
- Bridge Height Taken: DOWNSTREAM
- Scour Condition : 8
- Waterway Adequacy : 8
- Channel Protection : 6

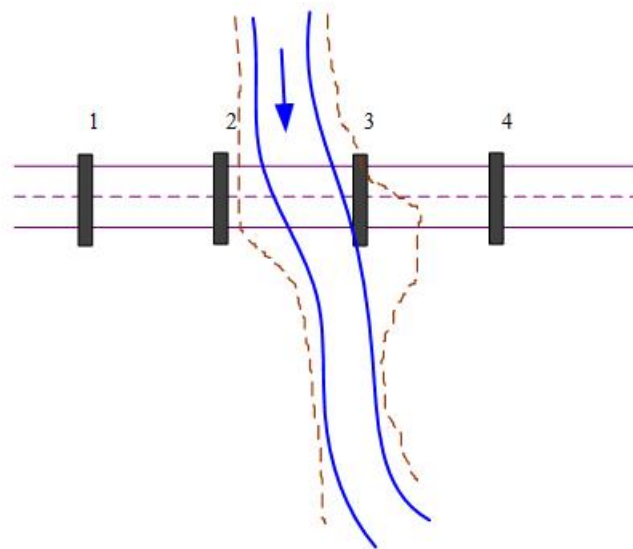
**Comments :**

Substructure Skew = 0

Channel Skew = 15

Stream Angle = 15

Direction Of Inventory →



**District:** 4841100000 - D1 DISTRICT  
**Location ID:** 219-01267F-006.10N  
**Structure ID:** 219-0011-0

**Inspection Area:** 2  
**Over:** MCNUTT CREEK  
**Road Name:** MARS HILL ROAD  
**County:** Oconee

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***Collision Information***

**Beam Type :**  
**Span # with Beam Damage :**  
**Total # of Beams in Span :**  
**# of Damaged Beams :**

**Minimum Vertical Clearance :** ft - in

**Actual Vertical Clearance at Point of Impact :** ft - in

**Posted Vertical Clearance :** ft - in

**Report Type :**

**Report Date :**

---

**Damage Location in Span :**

**Damage Type :**

**Damage Details :**

**Repairs Required :** No

**Repairs Made :** No

**Repair Details :**

**Additional Comments :**

*Photographs*

IMG\_1298.JPG



Looking North

IMG\_1300.JPG



Under View, Look North at bent 3

IMG\_1299.JPG



Upstream, Look North

IMG\_1301.JPG



Typical cracking in the deck top. Span 2 shown.

# Georgia Department of Transportation

## Bridge Inspection Report

**District:** 4841100000 - District One-

**Location ID:** 219-01433F-003.50N

**Structure ID:** 219-0017-0

**Bridge Information:** 6-Revised inventory or operating ratings; load limits

**Inspection Area:** 2

**Over:** MIDDLE OCONEE RIVER

**Road Name:** SIMONTON BRIDGE RD

**County:** Oconee



**District:** 4841100000 - District One-  
**Location ID:** 219-01433F-003.50N  
**Structure ID:** 219-0017-0

**Inspection Area:** 2 **County:** Oconee  
**Over:** MIDDLE OCONEE RIVER  
**Road Name:** SIMONTON BRIDGE RD

## Evaluation

**Topside Inspection Team** **Inspection Type:** General **Inspection Date:** 08/14/2019  
**Team Leader:** Vinson Thomas Tanner  
**Assistants:** Billy Lanthrip

### Deck

**NBIS Condition** 6 - Satisfactory Condition **Material:** O. Concrete

**Deck Wearing Surface Type:** 1. Concrete

6.2" concrete deck

#### Deck Top:

The deck top has shrinkage related cracks throughout.

The deck top in Spans 2, 3 and 4 has transverse cracking and abrasion wear throughout

#### Deck Underside:

The deck underside has transverse cracks with no efflorescence.

The right overhang in Span 1 has four core holes with spalls with no exposed steel up to 12" x 6" x 1".

#### Edgebeams:

The concrete edgebeam in Bay 4-3 at Bent 5 has an 8" x 4" x 3" spall with exposed rebar.

The concrete edgebeam in Bay 4-4 at Bent 5 has a 28" x 4" x 3" spall with exposed rebar.

## Superstructure

**NBIS Condition** 6 - Satisfactory Condition **Material:** N. Steel-Concrete

**Year Painted:** 2004

**Paint Type :** 5- Waterborne System (Type VI or VII)

**Temperature (F):**

Spans 1, 2 and 5 are concrete T-beams

Spans 3 and 4 are steel beams (Simple spans)

Steel beams have welded cover plates with rounded ends; welded across.

Steel beams have concrete diaphragms at 90 degrees.

#### Beams:

Steel beams in Spans 3 and 4 have been cleaned and painted with water-borne paint.

The T-beams have up to 1/64" wide deflection cracks, throughout.

T-beams 5-1 and 5-2 at Abutment 6 have up to 1/64" wide vertical cracks in the bearing areas (within the shear zone)

#### Bearings:

Bearing 3-1 at Bent 3, the north anchor bolt nut is not fully seated.

Bearing 3-3 at Bent 3, both anchor bolt nuts are not fully seated.

## Substructure

**NBIS Condition** 6 - Satisfactory Condition **Material:** N. Steel-Concrete

**Year Painted:** 2004

**Paint Type :** 5 - Waterborne System (Type VI or VII).

Abutments and Bent 3 have 12" Steel H-piles and concrete caps.

Bent 2 has 14" Steel H-piles and concrete cap.

Bents 4 and 5 have spread footers, concrete columns and concrete caps.

#### Abutments:

Both abutment caps have vertical cracking

Abutment 1 has up to 6" of settlement under the cap

#### Piles:

Piles at Bents 2 and 3 have been painted with water-borne paint.

Bent 2 piles were cover plated and encased as of 11/21/2000

Bent 3 (Tower Bent) piles were cover plated and encased as of 11/21/2000

#### Caps:

Bent 2 cap has up to 1/32" wide crack in the bottom face at Pile 2-2.

Bent 3 cap has a 28" x 12" x 2" spalls/delaminations with exposed rebar in the west face under Bay 2-1.

**District:** 4841100000 - District One-  
**Location ID:** 219-01433F-003.50N  
**Structure ID:** 219-0017-0

**Inspection Area:** 2 **County:** Oconee  
**Over:** MIDDLE OCONEE RIVER  
**Road Name:** SIMONTON BRIDGE RD

Bent 3 cap has a 12" x 6" x 1" spall with exposed rebar in the west face under Beam 2-2.  
 The footings under Column 4-1 is exposed 6" to 12".

### General

**This Bridge:**

Simonton Bridge Road over Middle Oconee River

Past repair work was done under project STP-M002-00(486) Rehab.  
 Specialized team inspects bent 4 and spans 3 and 4

**Bridgerails:**

- Bridgerail post 1-2 Right has a 6" x 4" x 2" spall with no exposed steel in the top west face.
- Bridgerail post 2-2 Left has an 8" x 6" x 2" spall with no exposed steel in the top southwest corner.
- Bridgerail post 2-2 Right has an 8" x 6" x 2" spall with no exposed steel in the top west face.
- Bridgerail post 2-3 Left has a 6" x 4" x 1" spall with no exposed steel in the southwest corner.
- Bridgerail post 2-4 Left has an 8" x 6" x 2" spall with no exposed steel in the top southwest corner.
- Bridgerail post 4-4 Left has a 6" x 6" x 2" spall with no exposed steel in the top northwest corner.
- Bridgerail post 4-5 Left has a 3" x 3" x 1" spall with no exposed steel in the top northeast corner.
- Bridgerail post 5-3 Left has a 3" x 3" x 1" spall with no exposed steel in the top northeast corner.
- Bridgerail post 5-4 Left has a 3" x 3" x 1" spall with no exposed steel in the top northeast corner.

The rear approach slab is not visible due to an asphalt overlay.  
 The forward approach slab has a longitudinal crack in the westbound lane near centerline.  
 The forward approach slab/approach roadway has a 1" difference in elevation causing a slight impact at the approach.  
 The catch basins have an accumulation of trash

### Conditional Situations

**Confined Space:** No

**Traffic Control Needed:** No

### Equipment Used

**Access Equipment:** None

**Topside Boat:** None

**Waders:** None

**Special Imaging Device:** None

### *Load Rating and Posting*

Truck Type	Gross/H-Modified	HSMModified	Tandem	3-S-2	Log	Piggy
<b>Calculated Posting</b>	20	21	20	30	25	00
<b>Posting Required</b>	No	No	No	No	No	No
<b>Existing Posting</b>	00	00	00	00	00	00

**Item 103 Temporarily Shored :** No

**Posting Required:** No

**Item 41 - Structure Open, Posted or Closed:** A. Open, no restriction

**District:** 4841100000 - District One-  
**Location ID:** 219-01433F-003.50N  
**Structure ID:** 219-0017-0

**Inspection Area:** 2 **County:** Oconee  
**Over:** MIDDLE OCONEE RIVER  
**Road Name:** SIMONTON BRIDGE RD

### *Element Data*

Element	Parent Element	Measurement Unit	Env*	Quantity	State 1	State 2	State 3	State 4
12-Reinforced Concrete Deck		SQUARE FEET	2	3360	3356	4		
16-Reinforced Concrete Top Flange		SQUARE FEET	2	3360	3360			
107-Steel Open Web Girder/Beam		Linear Foot	2	600	600			
515-Steel Protective Coating (107)	107-Steel Open Web Girder/Beam	SQUARE FEET	2	5256	5256			
110-Reinforced Conc Open Girder/Beam		Linear Foot	2	480	480			
205-Reinforced Conc Column		Each	2	4	2	2		
215-Reinforced Conc Abutment		Linear Foot	2	72	72			
225-Steel Pile		Each	2	13	13			
515-Steel Protective Coating (225)	225-Steel Pile	SQUARE FEET	2	1232	1232			
234-Reinforced Conc Pier Cap		Linear Foot	2	121	109	11	1	
301-Pourable Joint Seal		Linear Foot	2	168	140	28		
311-Movable Bearing		Each	2	10	8	1	1	
515-Steel Protective Coating (311)	311-Movable Bearing	SQUARE FEET	2	20	17	2	1	
313-Fixed Bearing		Each	2	10	5	5		
515-Steel Protective Coating (313)	313-Fixed Bearing	SQUARE FEET	2	20	15	5		
321-Reinforced Concrete Approach Slab		SQUARE FEET	2	1680	1680			
510-Wearing Surfaces (321)	321-Reinforced Concrete Approach Slab	SQUARE FEET	2	840	840			
331-Reinforced Concrete Bridge Railing		Linear Foot	2	480	440	40		

Env\* = Environment

### *Defects*

Element	Defect	State 2	State 3	State 4
12-Reinforced Concrete Deck	Exposed Rebar	4		
205-Reinforced Conc Column	Abrasion/Wear (PSC/RC)	2		
234-Reinforced Conc Pier Cap	Exposed Rebar	3	1	
234-Reinforced Conc Pier Cap	Delamination/Spall/Patched Area	1		
234-Reinforced Conc Pier Cap	Cracking (RC and Other)	7		
301-Pourable Joint Seal	Seal Adhesion	28		
311-Movable Bearing	Corrosion	1	1	
313-Fixed Bearing	Corrosion	5		
331-Reinforced Concrete Bridge Railing	Cracking (RC and Other)	40		
515-Steel Protective Coating (311)	Effectiveness (Steel Protective Coatings)	2	1	
515-Steel Protective Coating (313)	Effectiveness (Steel Protective Coatings)	5		

### *Maintenance Items*



**District:** 4841100000 - District One-

**Inspection Area:** 2

**County:** Oconee

**Location ID:** 219-01433F-003.50N

**Over:** MIDDLE OCONEE RIVER

**Structure ID:** 219-0017-0

**Road Name:** SIMONTON BRIDGE RD

Activity	Work Quantity	Priority	Location	Inspection Date	Completion Date	Comments
000 - BRIDGE PAINTING (Not performed by Highway Maintenance, used by Bridge Mntce) ()		C	Bearings	08/14/2017		Clean and paint bearings as needed
810 - DECK REPAIR (SQUARE FEET)		B	Deck	10/19/2015		Repair spalling in the edgebeams with exposed rebar in span 4
830 - REP MAIN STRUCT MEMBERS (PERSON HOURS)		B	Cap	10/19/2015		Repair spall with exposed rebar in cap at Bent 3

**District:** 4841100000 - District One-  
**Location ID:** 219-01433F-003.50N  
**Structure ID:** 219-0017-0

**Inspection Area:** 2 **County:** Oconee  
**Over:** MIDDLE OCONEE RIVER  
**Road Name:** SIMONTON BRIDGE RD

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## *Specialized Inspection*

### Inspection Team

**Team Leader :** Joe H. Walker Jr.

**Inspection Date :** 06/15/2020

**Assistants :** Brad Baker, Daniel Collins

### Deck

**NBIS Condition Code :** 7 - Good Condition

Specialized team inspected the underside of the deck in spans 2 through 4.

The underside of the deck has up to .010" transverse and longitudinal cracking.  
The edge beams have minor cracking.

Span 3, the underside of the left overhang has a 3" x 12" shallow steel spall.

Span 4 bay 3, forward edge beam has a 6" L spall with exposed rebar.

Span 4 bay 4, forward edge beam has a spall with 24" of exposed rebar.

### Superstructure

**NBIS Condition Code :** 7 - Good Condition

Specialized team inspected spans 2 through 4.

Span 2 has (4) 18 1/4" x 31 3/4" reinforced concrete T-beams.

Spans 3 and 4 have five W36 x 150 steel beams.

Span 1 beam 1, right face has a .012" diagonal crack in the forward beam end.

Span 3 rear, bearing 1 has minor corrosion and bearing 5 has moderate corrosion.

Span 4 forward bearings have minor corrosion.

### Substructure

**NBIS Condition Code :** 7 - Good Condition

Specialized team inspected bents 2 through 4.

Bent 2 cap has a 24" H x 24" W x 28.5' L concrete cap with (4) 14" steel piles.

Bent 3 cap has a 24" H x 30" W x 29.5' L concrete cap with a step to accommodate different sized beams with (9) 12" steel piles, .

Bent 4 cap has a 33"W x 33"d x 27.5'L concrete cap with (2) 33" x 33" concrete columns and a 14' 9"L web wall.

Bent caps have up to .010" cracking.

Bent 2 cap, bottom face has a 6" x 9" shallow steel spall between piles 3 and 4.

Bents 2 and 3 caps have minor diagonal cracks extending from the corners of several pile flanges.

Bent 3 cap, right rear corner has a 4" x 14" delamination with a 3" x 6" x 1.5" D spall with exposed rebar.

Bent 3 cap has a 1" x 3" void from a piece of wood from construction, extending all the way through the cap.

Bent 3 cap, rear face has a 4" x 19" x 1" D spall with exposed rebar.

Bent 3 cap, rear face has a 10" x 14" x 2" D spall with exposed rebar and a 18" x 12" area of delamination under beam 1.

Bent 3, bottom of cap has a small pop out between piles 3 and 4.

Bent 4 columns have abrasion.

### Conditional Situations

**Confined Space:** No

**Traffic Control Needed:** Yes

### Equipment Used

**Access Equipment:** 35' Hydra-platform

**Special Imaging Device:** None

**District:** 4841100000 - District One-  
**Location ID:** 219-01433F-003.50N  
**Structure ID:** 219-0017-0

**Inspection Area:** 2                      **County:** Oconee  
**Over:** MIDDLE OCONEE RIVER  
**Road Name:** SIMONTON BRIDGE RD

---

**No Other Special Inspection performed on this bridge.**

**District:** 4841100000 - District One-

**Inspection Area:** 2

**County:** Oconee

**Location ID:** 219-01433F-003.50N

**Over:** MIDDLE OCONEE RIVER

**Structure ID:** 219-0017-0

**Road Name:** SIMONTON BRIDGE RD

---

**No Fracture Critical Inspection performed on this bridge.**

**District:** 4841100000 - District One-  
**Location ID:** 219-01433F-003.50N  
**Structure ID:** 219-0017-0

**Inspection Area:** 2 **County:** Oconee  
**Over:** MIDDLE OCONEE RIVER  
**Road Name:** SIMONTON BRIDGE RD

***Bridge Components***  
***Superstructure Data***

Span #	Beam Type	Beam Spacing	Length	# Beams	Remarks
1	Concrete "T" Beam	8	40	4	18.25"W x 31.75"D
2	Concrete "T" Beam	8	40	4	18.25"W x 31.75"D
3	Steel	5.3	60	5	W36 x 150
4	Steel	5.3	60	5	W36 x 150
5	Concrete "T" Beam	8	40	4	18.25"W x 31.75"D

***Bearing Data***

Span #	Rear Type Bearing	Forward Type Bearing	Remarks
1	08 - Beam on Cap	08 - Beam on Cap	
2	08 - Beam on Cap	08 - Beam on Cap	
3	01 - Sliding Plate	02 - Fixed Plate	
4	01 - Sliding Plate	02 - Fixed Plate	
5	08 - Beam on Cap	08 - Beam on Cap	

**District:** 4841100000 - District One-

**Inspection Area:** 2

**County:** Oconee

**Location ID:** 219-01433F-003.50N

**Over:** MIDDLE OCONEE RIVER

**Structure ID:** 219-0017-0

**Road Name:** SIMONTON BRIDGE RD

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**This bridge has no intersected feature.**

**District:** 4841100000 - District One-  
**Location ID:** 219-01433F-003.50N  
**Structure ID:** 219-0017-0

**Inspection Area:** 2 **County:** Oconee  
**Over:** MIDDLE OCONEE RIVER  
**Road Name:** SIMONTON BRIDGE RD

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## *Underwater Report*

**Underwater Inspection Date :** 10/03/2017

**Underwater Inspection Team :**

**Team Leader :** Joseph Wayne O'Daniels

**Dive Supervisor :** Joe O'Daniels

**Diver :** Joe O'Daniels

**Standby Diver :** Kyle Caraway

**Bents Inspected :** Bent 4

**Boat Used :** None

**Bent Construction :** Concrete columns on footings

**Inspection Type:** Wading

**Water Level Reference :** The waterline to the bottom of the web wall is 8' at bent 4.

**Maximum Water Depth (ft):** 3

**Bridge Inspection Procedure :** 1. This bridge was inspected according to the procedures established in the Georgia Department of Transportation's Underwater Bridge Inspection Team Policy and Procedures Manual version June 2020

**Condition Ratings :**

**Substructure :** 6 - Satisfactory Condition

**Channel Protection :** 6 - Satisfactory Condition

**Underwater :** 7 - Good Condition

**Waterway Adequacy :** 8 - Very Good Condition

**Scour :** 6 - Satisfactory Condition

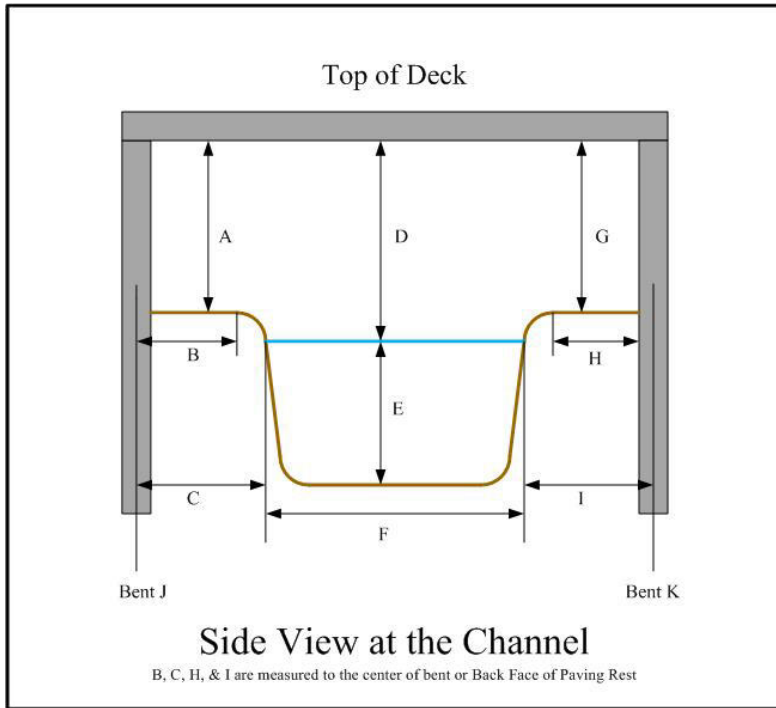
**Detailed Inspection :**

The concrete on the columns has moderate scale/abrasion from 5' below the bottom of the web wall down. Slight scour is present exposing one footing.

**District:** 4841100000 - District One-  
**Location ID:** 219-01433F-003.50N  
**Structure ID:** 219-0017-0

**Inspection Area:** 2 **County:** Oconee  
**Over:** MIDDLE OCONEE RIVER  
**Road Name:** SIMONTON BRIDGE RD

**Waterway Information**



- A : 14
- B : 21
- C : 31
- D : 28.0
- E : 7.0
- F : 145
- G : 15
- H : 12
- I : 25
- J : 1
- K : 5

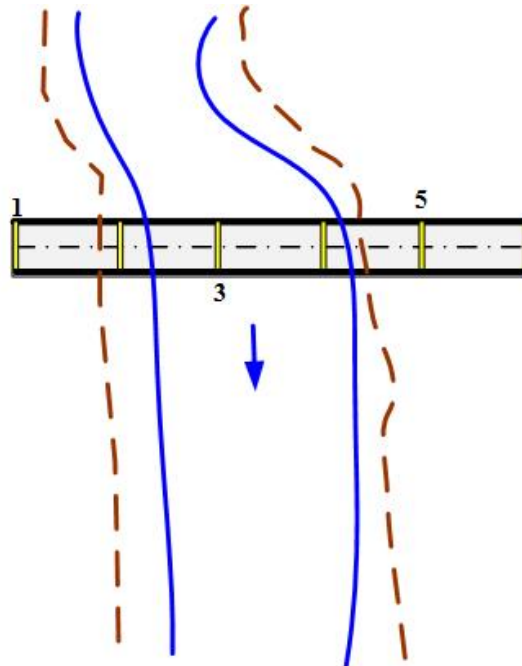
**Location of Bridge Height :** 21' forward of bent 4  
**Bridge Height Taken:**  
**Scour Condition :** 6  
**Waterway Adequacy :** 8  
**Channel Protection :** 6

**Comments :**

**Substructure Skew = 0**

**Channel Skew = 0**

**Stream Angle = 10**





**District:** 4841100000 - District One-  
**Location ID:** 219-01433F-003.50N  
**Structure ID:** 219-0017-0

**Inspection Area:** 2                      **County:** Oconee  
**Over:** MIDDLE OCONEE RIVER  
**Road Name:** SIMONTON BRIDGE RD

---

***Collision Information***

**Beam Type :**  
**Span # with Beam Damage :**  
**Total # of Beams in Span :**  
**# of Damaged Beams :**

**Minimum Vertical Clearance :** ft - in

**Actual Vertical Clearance at  
Point of Impact :** ft - in

**Posted Vertical Clearance :** ft - in

**Report Type :**

**Report Date :**

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**Damage Location in Span :**

**Damage Type :**

**Damage Details :**

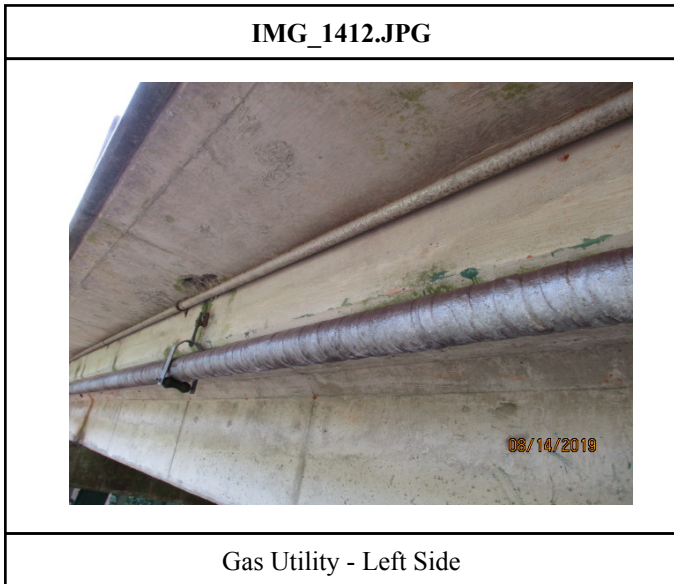
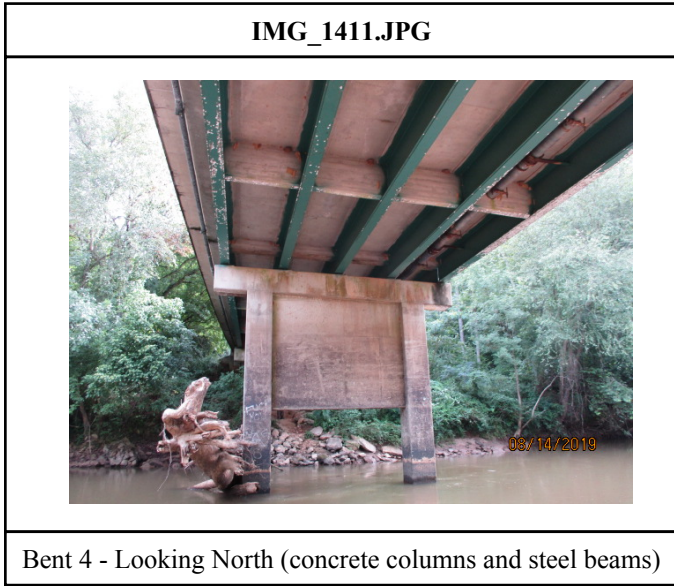
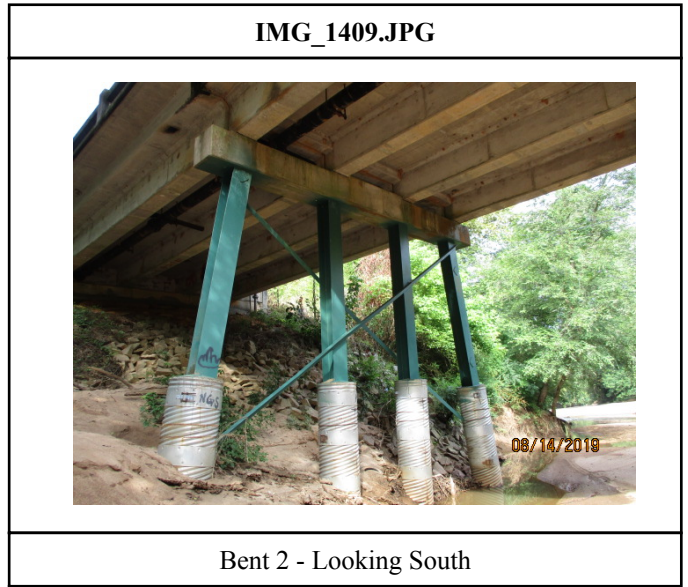
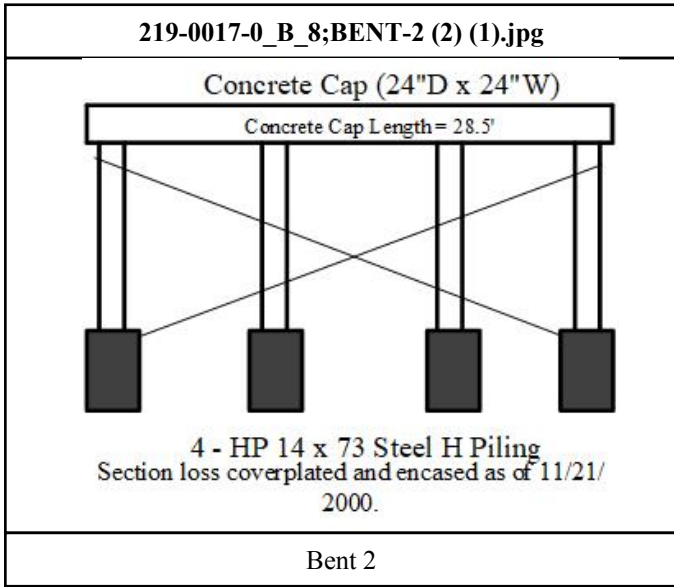
**Repairs Required :** No

**Repairs Made :** No

**Repair Details :**

**Additional Comments :**

*Photographs*



*Photographs*

IMG\_1405.JPG



Looking North

IMG\_1407.JPG



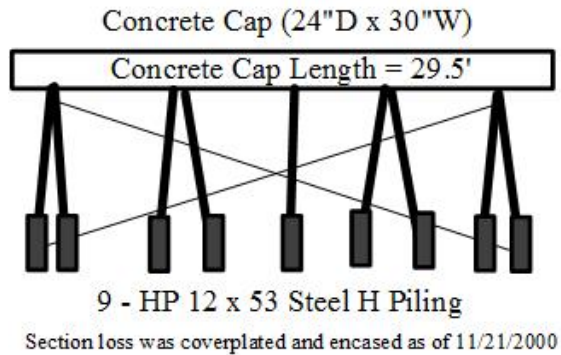
Water Utility

IMG\_1406.JPG



Abutment 1

219-0017-0 bent 2 and 3.jpg



Bent 3

DSCN4364.JPG



Specialized Inspection

DSCN4365.JPG



Span 4 bay 4 forward edge beam has a spall with 24" of exposed rebar. ( Specialized )

**Photographs**

DSCN4366.JPG



Span 3 rear, bearing 5 has moderate corrosion. ( Specialized )

DSCN4367.JPG



Bent 3 cap, rear face has a 10" x 14" x 2" D spall with exposed rebar and a 18" x 12" area of delamination under beam 1. ( Specialized )

DSCN4368.JPG



Bent 3 cap, rear face has a 4" x 19" x 1" D spall with exposed rebar under beam 2. ( Specialized )

DSCN4369.JPG



Bent 3 cap has a 1" x 3" void from a piece of wood from construction, extending all the way through the cap. ( Specialized )

DSCN4370.JPG



Bent 3 cap, right rear corner has a 4" x 14" delamination with a 3" x 6" x 1.5" D spall with exposed rebar. ( Specialized )

# Georgia Department of Transportation

## Bridge Inspection Report

**District:** 4841100000 - D1 DISTRICT

**Inspection Area:** 2

**County:** Oconee

**Location ID:** 219-00516X-001.65N

**Over:** BARBER CREEK

**Structure ID:** 219-5005-0

**Road Name:** MALCOM BRIDGE RD

**Bridge Information:** 6-Revised inventory or operating ratings; load limits



**District:** 4841100000 - D1 DISTRICT  
**Location ID:** 219-00516X-001.65N  
**Structure ID:** 219-5005-0

**Inspection Area:** 2  
**Over:** BARBER CREEK  
**Road Name:** MALCOM BRIDGE RD

**County:** Oconee

## Evaluation

**Topside Inspection Team**                      **Inspection Type:** General                      **Inspection Date:** 08/08/2019  
**Team Leader:** Vinson Thomas Tanner  
**Assistants:** Perry Rogers

### Deck

**NBIS Condition** 6 - Satisfactory Condition                      **Material:** O. Concrete

**Deck Wearing Surface Type:** 1. Concrete

Concrete deck

All spans have moderate shrinkage cracking and abrasions.  
All spans have hairline cracking on the bottom.  
Need to clean and seal the deck joints.

### Superstructure

**NBIS Condition** 6 - Satisfactory Condition                      **Material:** O. Concrete

**Year Painted:** 0000

**Paint Type :** 0- Not Applicable

**Temperature (F):**

4 - Concrete T beams per span on 6.6' centers. (18"W x 16"D)

Beams have minor deflection cracking.  
All beams at abutment 1 have hairline cracking.  
Pop out in end of beam 1 at bent 4. (forward)  
Beam 3 at abutment 5 has hairline vertical crack in the bearing area.  
Both end walls have minor cracking.

### Substructure

**NBIS Condition** 6 - Satisfactory Condition                      **Material:** N. Steel-Concrete

**Year Painted:** 2003

**Paint Type :** 5 - Waterborne System (Type VI or VII).

Abutments - Steel H piles and concrete caps  
Bents 2 and 3 - Spread footings, concrete columns and concrete caps  
Bent 4 - 10" Steel H piling and concrete cap

Need to reshape the rip rap on the end roll at abutment 1.  
Both abutment caps have hairline vertical cracking.  
6" to 2' of the footing is exposed at the left column at bent 2.  
(No undermining found but the county needs to place rip rap around the footing to reduce any future scour)

Cap at bent 3 has hairline cracking under beam 3 forward.  
Moderate scaling on both columns at bent 3.  
Scour in banks at bents 2 and 3. Needs rip rap.  
Cap at bent 4 has hairline vertical crack over pile 2.  
Sway bracing has been added to bent 4 and the piles have been painted with water-born paint.  
(The work was done under STP-M002-00(486) Rehab.)

### General

#### This Bridge:

Malcom Bridge Road over Barber Creek

This bridge was posted on both ends with correct weight limit signs on both ends of the structure at the time of inspection.

Data entered by Perry Rogers.

District: 4841100000 - D1 DISTRICT  
 Location ID: 219-00516X-001.65N  
 Structure ID: 219-5005-0

Inspection Area: 2 County: Oconee  
 Over: BARBER CREEK  
 Road Name: MALCOM BRIDGE RD

### Conditional Situations

Confined Space: No

Traffic Control Needed: No

### Equipment Used

Access Equipment: None

Topside Boat: None

Waders: Hip boots

Special Imaging Device: None

### Load Rating and Posting

Truck Type	Gross/H-Modified	HSMModified	Tandem	3-S-2	Log	Piggy
Calculated Posting	18	20	18	30	24	00
Posting Required	Yes	No	Yes	No	Yes	No
Existing Posting	15	16	14	25	19	00

Item 103 Temporarily Shored : No

Posting Required: Yes

Item 41 - Structure Open, Posted or Closed: P. Posted for load

### Element Data

Element	Parent Element	Measurement Unit	Env*	Quantity	State 1	State 2	State 3	State 4
16-Reinforced Concrete Top Flange		SQUARE FEET	2	3588	627	2961		
110-Reinforced Conc Open Girder/Beam		Linear Foot	2	480	405	75		
205-Reinforced Conc Column		Each	2	4	2	2		
215-Reinforced Conc Abutment		Linear Foot	2	68	52	16		
225-Steel Pile		Each	2	4	4			
515-Steel Protective Coating (225)	225-Steel Pile	SQUARE FEET	2	296	296			
234-Reinforced Conc Pier Cap		Linear Foot	2	84	59	25		
301-Pourable Joint Seal		Linear Foot	2	120	0		120	
331-Reinforced Concrete Bridge Railing		Linear Foot	2	240	240			

Env\* = Environment

### Defects

Element	Defect	State 2	State 3	State 4
110-Reinforced Conc Open Girder/Beam	Cracking (RC and Other)	70		
110-Reinforced Conc Open Girder/Beam	Delamination/Spall/Patched Area	5		
16-Reinforced Concrete Top Flange	Abrasion/Wear (PSC/RC)	897		
16-Reinforced Concrete Top Flange	Cracking (RC and Other)	2064		
205-Reinforced Conc Column	Abrasion/Wear (PSC/RC)	2		
215-Reinforced Conc Abutment	Cracking (RC and Other)	16		
234-Reinforced Conc Pier Cap	Cracking (RC and Other)	25		
301-Pourable Joint Seal	Seal Adhesion		120	

District: 4841100000 - D1 DISTRICT

Inspection Area: 2

County: Oconee

Location ID: 219-00516X-001.65N

Over: BARBER CREEK

Structure ID: 219-5005-0

Road Name: MALCOM BRIDGE RD

*Maintenance Items*

Activity	Work Quantity	Priority	Location	Inspection Date	Completion Date	Comments
800 - BRIDGE JOINT SEALING (LINEAR FEET)		C	Deck joints	10/19/2015		Clean and seal the deck joints
550 - EROSION CONTROL (PERSON HOURS)		C	Abutment 1, Bents 2 and 3	10/19/2015		Need to reshape the rip rap on the end roll at abutment 1 Place rip rap around exposed footing at bent 2 - left column and on banks at bent 2 and 3.



**District:** 4841100000 - D1 DISTRICT

**Inspection Area:** 2

**County:** Oconee

**Location ID:** 219-00516X-001.65N

**Over:** BARBER CREEK

**Structure ID:** 219-5005-0

**Road Name:** MALCOM BRIDGE RD

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**No Specialized Inspection performed on this bridge.**

**District:** 4841100000 - D1 DISTRICT

**Inspection Area:** 2

**County:** Oconee

**Location ID:** 219-00516X-001.65N

**Over:** BARBER CREEK

**Structure ID:** 219-5005-0

**Road Name:** MALCOM BRIDGE RD

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**No Other Special Inspection performed on this bridge.**

**District:** 4841100000 - D1 DISTRICT

**Inspection Area:** 2

**County:** Oconee

**Location ID:** 219-00516X-001.65N

**Over:** BARBER CREEK

**Structure ID:** 219-5005-0

**Road Name:** MALCOM BRIDGE RD

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**No Fracture Critical Inspection performed on this bridge.**

District: 4841100000 - D1 DISTRICT  
Location ID: 219-00516X-001.65N  
Structure ID: 219-5005-0

Inspection Area: 2  
Over: BARBER CREEK  
Road Name: MALCOM BRIDGE RD

County: Oconee

***Bridge Components***  
***Superstructure Data***

Span #	Beam Type	Beam Spacing	Length	# Beams	Remarks
1	Concrete "T" Beam	6.6	30	4	18"W x 16"D
2	Concrete "T" Beam	6.6	30	4	18"W x 16"D
3	Concrete "T" Beam	6.6	30	4	18"W x 16"D
4	Concrete "T" Beam	6.6	30	4	18"W x 16"D

***Bearing Data***

Span #	Rear Type Bearing	Forward Type Bearing	Remarks
1	08 - Beam on Cap	08 - Beam on Cap	
2	08 - Beam on Cap	08 - Beam on Cap	
3	08 - Beam on Cap	08 - Beam on Cap	
4	08 - Beam on Cap	08 - Beam on Cap	

**District:** 4841100000 - D1 DISTRICT

**Inspection Area:** 2

**County:** Oconee

**Location ID:** 219-00516X-001.65N

**Over:** BARBER CREEK

**Structure ID:** 219-5005-0

**Road Name:** MALCOM BRIDGE RD

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**This bridge has no intersected feature.**

**District:** 4841100000 - D1 DISTRICT

**Inspection Area:** 2

**County:** Oconee

**Location ID:** 219-00516X-001.65N

**Over:** BARBER CREEK

**Structure ID:** 219-5005-0

**Road Name:** MALCOM BRIDGE RD

---

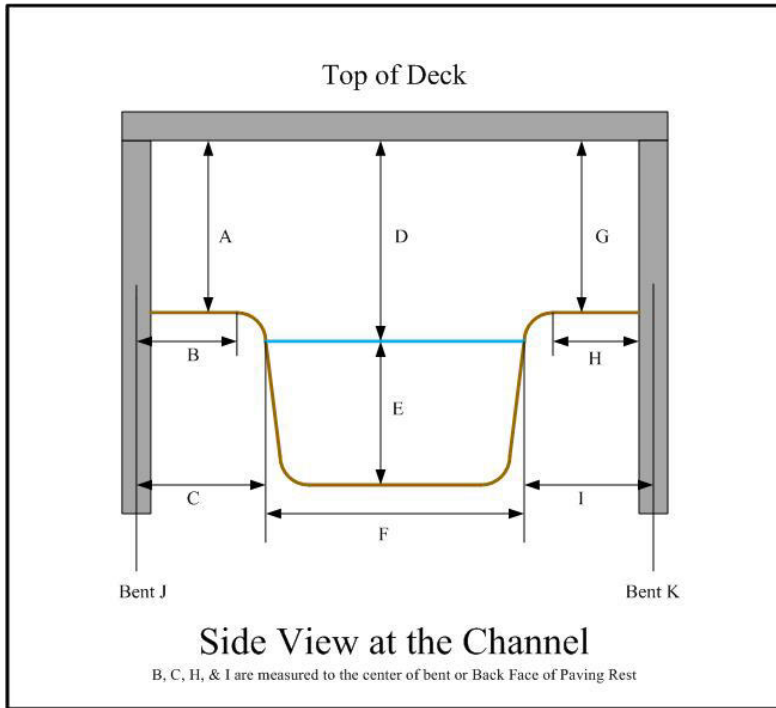
**No Underwater Inspection performed on this bridge.**

District: 4841100000 - D1 DISTRICT  
 Location ID: 219-00516X-001.65N  
 Structure ID: 219-5005-0

Inspection Area: 2  
 Over: BARBER CREEK  
 Road Name: MALCOM BRIDGE RD

County: Oconee

**Waterway Information**



- A : 16.4
- B : 25
- C : 31
- D : 15.8
- E : 1.9
- F : 36
- G : 10.3
- H : 18
- I : 23
- J : 1
- K : 4

Location of Bridge Height : 5' forward of bent 2  
 Bridge Height Taken: UPSTREAM  
 Scour Condition : 6  
 Waterway Adequacy : 9  
 Channel Protection : 5

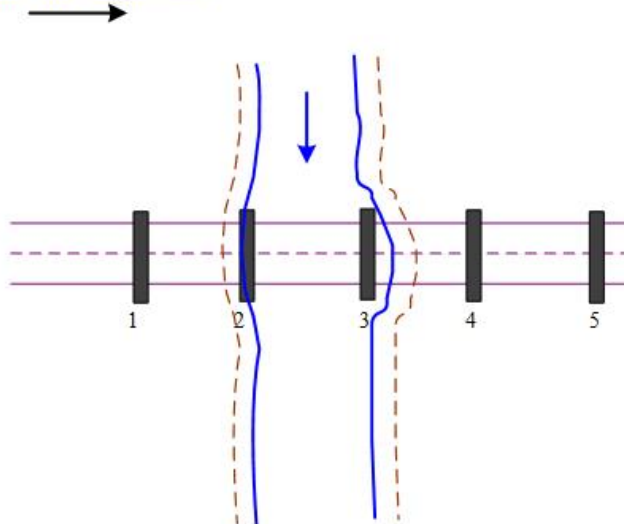
Comments :

Substructure Skew = 0

Channel Skew = 10

Stream Angle = 10

Direction Of Inventory



**District:** 4841100000 - D1 DISTRICT  
**Location ID:** 219-00516X-001.65N  
**Structure ID:** 219-5005-0

**Inspection Area:** 2  
**Over:** BARBER CREEK  
**Road Name:** MALCOM BRIDGE RD  
**County:** Oconee

---

***Collision Information***

**Beam Type :**  
**Span # with Beam Damage :**  
**Total # of Beams in Span :**  
**# of Damaged Beams :**

**Minimum Vertical Clearance :** ft - in

**Actual Vertical Clearance at Point of Impact :** ft - in

**Posted Vertical Clearance :** ft - in

**Report Type :**

**Report Date :**

---

**Damage Location in Span :**

**Damage Type :**

**Damage Details :**

**Repairs Required :** No

**Repairs Made :** No

**Repair Details :**

**Additional Comments :**



*Photographs*

IMG\_1379.JPG



Bent 4

IMG\_1377.JPG



Looking South at bent 2

IMG\_1378.JPG



1.5" PVC Telephone conduit left side under the edge of the overhang.

IMG\_1375.JPG



Forward end

IMG\_0417.JPG



Rear end

IMG\_1374.JPG



Looking North

District: 4841100000 - D1 DISTRICT  
Location ID: 219-00516X-001.65N  
Structure ID: 219-5005-0

Inspection Area: 2  
Over: BARBER CREEK  
Road Name: MALCOM BRIDGE RD

County: Oconee

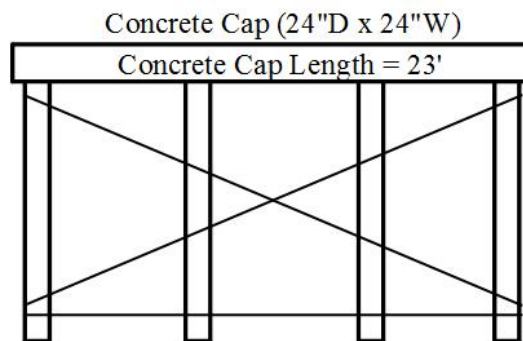
### Photographs

IMG\_1376.JPG



Downstream, Looking North

219-5005-0\_B\_8;BENT-4.jpg



4 - HP 10 x 42 Steel H Piling

Sway bracing added in 2002

Bent 4

# Georgia Department of Transportation

## Culvert Inspection Report

**District:** 4841100000 - D1 DISTRICT

**Inspection Area:** 2

**County:** Oconee

**Location ID:** 219-00156X-000.79S

**Over:** PORTERS CREEK

**Structure ID:** 219-5021-0

**Road Name:** MCREE GIN ROAD

**Bridge Information:** 6-Revised inventory or operating ratings; load limits





District: 4841100000 - D1 DISTRICT  
 Location ID: 219-00156X-000.79S  
 Structure ID: 219-5021-0

Inspection Area: 2  
 Over: PORTERS CREEK  
 Road Name: MCREE GIN ROAD

County: Oconee

### *Conditional Situations*

Traffic Control : No

Underwater Inspection: No

### *Load Rating and Posting*

Truck Type	Gross/H-Modified	HSMModified	Tandem	3-S-2	Log	Piggy
Calculated Posting	00	00	00	00	00	00
Posting Required	No	No	No	No	No	No
Existing Posting	00	00	00	00	00	00

Item 103 Temporarily Shored : No

Posting Required: No

Item 41 - Structure Open, Posted or Closed: A. Open, no restriction

### *Element Data*

Element	Parent Element	Measurement Unit	Env*	Quantity	State 1	State 2	State 3	State 4
241-Reinforced Concrete Culvert		Linear Foot	3	132	100	32		

Env\* = Environment

### *Defects*

Element	Defect	State 2	State 3	State 4
241-Reinforced Concrete Culvert	Efflorescence/Rust Staining	32		

### *Maintenance Items*

Activity	Work Quantity	Priority	Location	Inspection Date	Completion Date	Comments
845 - OTHER BRIDGE MAINT (PERSON HOURS)		B	Inlet	08/20/2019		Remove drift
845 - OTHER BRIDGE MAINT (PERSON HOURS)		B	Inlet and Outlet	10/14/2015		Repair scour and <u>undermining</u>
520 - BRUSH AND TREE CUTTING (PERSON HOURS)		C	Whole structure	10/14/2015		Cut bushes around the culvert
821 - CULVERT REPAIR (SQUARE FEET)		B	Outlet	10/14/2015		Repair crack in rear outlet wing

### *NBIS Condition Codes*

**Culvert Condition:** 7 - Good Condition  
**Underwater Condition:** N - Not Applicable  
**Scour Condition:** 5 - Fair Condition  
**Waterway Adequacy:** 8-Bridge deck above roadway approaches. Slight chance of overtopping roadway approaches.  
**Channel Protection:** 6-Bank is beginning to slump. River control devices and embankment protection have widespread

**District:** 4841100000 - D1 DISTRICT  
**Location ID:** 219-00156X-000.79S  
**Structure ID:** 219-5021-0

**Inspection Area:** 2  
**Over:** PORTERS CREEK  
**Road Name:** MCREE GIN ROAD

**County:** Oconee

---

**No Other Special Inspection performed on this culvert.**

**District:** 4841100000 - D1 DISTRICT  
**Location ID:** 219-00156X-000.79S  
**Structure ID:** 219-5021-0

**Inspection Area:** 2  
**Over:** PORTERS CREEK  
**Road Name:** MCREE GIN ROAD

**County:** Oconee

---

**No Underwater Inspection performed on this culvert.**

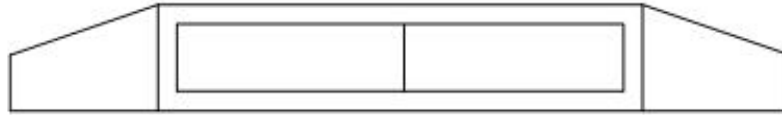
District: 4841100000 - D1 DISTRICT  
Location ID: 219-00156X-000.79S  
Structure ID: 219-5021-0

Inspection Area: 2  
Over: PORTERS CREEK  
Road Name: MCREE GIN ROAD

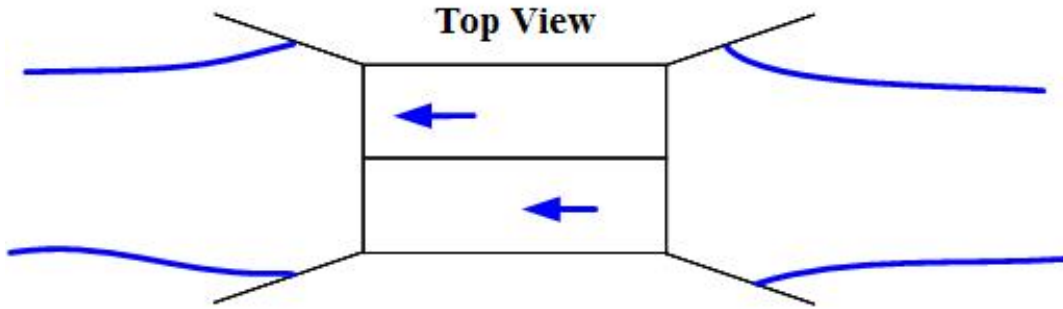
County: Oconee

### Culvert Waterway Report

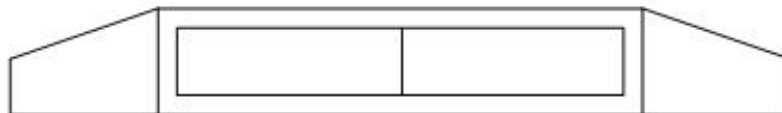
**Upstream Face**



**Top View**



**Downstream Face**



<b>Bridge Height Location</b>	DOWNSTREAM
<b>Bridge Height (Ft)</b>	9.7
<b>Water Depth (Ft)</b>	3.3
<b>Stream Velocity</b>	Moderate
<b>Channel Soil Type</b>	Sand
<b>Scour Critical</b>	8. Foundation stable for conditions; scour above footing
<b>Slope Protection</b>	0- None



*Photographs*

IMG\_1494.JPG



Crack has re-opened in rear outlet wing

IMG\_1492.JPG



Looking South

IMG\_1493.JPG



Outlet

# Georgia Department of Transportation

## Culvert Inspection Report

**District:** 4841100000 - D1 DISTRICT

**Inspection Area:** 2

**County:** Oconee

**Location ID:** 219-00158X-003.86E

**Over:** PORTERS CREEK

**Structure ID:** 219-5022-0

**Road Name:** MCREE MILL ROAD

**Bridge Information:** 6-Revised inventory or operating ratings; load limits





District: 4841100000 - D1 DISTRICT  
 Location ID: 219-00158X-003.86E  
 Structure ID: 219-5022-0

Inspection Area: 2  
 Over: PORTERS CREEK  
 Road Name: MCREE MILL ROAD

County: Oconee

### *Conditional Situations*

Traffic Control : No

Underwater Inspection: No

### *Load Rating and Posting*

Truck Type	Gross/H-Modified	HModified	Tandem	3-S-2	Log	Piggy
Calculated Posting	00	00	00	00	00	00
Posting Required	No	No	No	No	No	No
Existing Posting	00	00	00	00	00	00

Item 103 Temporarily Shored : No

Posting Required: No

Item 41 - Structure Open, Posted or Closed: A. Open, no restriction

### *Element Data*

Element	Parent Element	Measurement Unit	Env*	Quantity	State 1	State 2	State 3	State 4
241-Reinforced Concrete Culvert		Linear Foot	2	198	153	45		

Env\* = Environment

### *Defects*

Element	Defect	State 2	State 3	State 4
241-Reinforced Concrete Culvert	Cracking (RC and Other)	45		

### *Maintenance Items*

Activity	Work Quantity	Priority	Location	Inspection Date	Completion Date	Comments
821 - CULVERT REPAIR (SQUARE FEET)		C	Wing wall	10/07/2015		Repair cracking in rear inlet wing wall
845 - OTHER BRIDGE MAINT (PERSON HOURS)		B	Inlet	10/07/2015	08/21/2017	Remove drift across in the inlet of all barrels
845 - OTHER BRIDGE MAINT (PERSON HOURS)		B	Inlet and Outlet	10/06/2015		Repair scour on the inlet and outlet of culvert barrels
821 - CULVERT REPAIR (SQUARE FEET)		B	Barrel	10/06/2015		Repair honeycombing in culvert barrel walls and wing walls in barrel 3

### *NBIS Condition Codes*

**Culvert Condition:** 7 - Good Condition  
**Underwater Condition:** N - Not Applicable  
**Scour Condition:** 8 - Very Good Condition  
**Waterway Adequacy:** 8-Bridge deck above roadway approaches. Slight chance of overtopping roadway approaches.  
**Channel Protection:** 7-Bank protection is in need of minor repairs. River control devices and embankment protection

**District:** 4841100000 - D1 DISTRICT

**Inspection Area:** 2

**County:** Oconee

**Location ID:** 219-00158X-003.86E

**Over:** PORTERS CREEK

**Structure ID:** 219-5022-0

**Road Name:** MCREE MILL ROAD

---

**No Other Special Inspection performed on this culvert.**

**District:** 4841100000 - D1 DISTRICT

**Inspection Area:** 2

**County:** Oconee

**Location ID:** 219-00158X-003.86E

**Over:** PORTERS CREEK

**Structure ID:** 219-5022-0

**Road Name:** MCREE MILL ROAD

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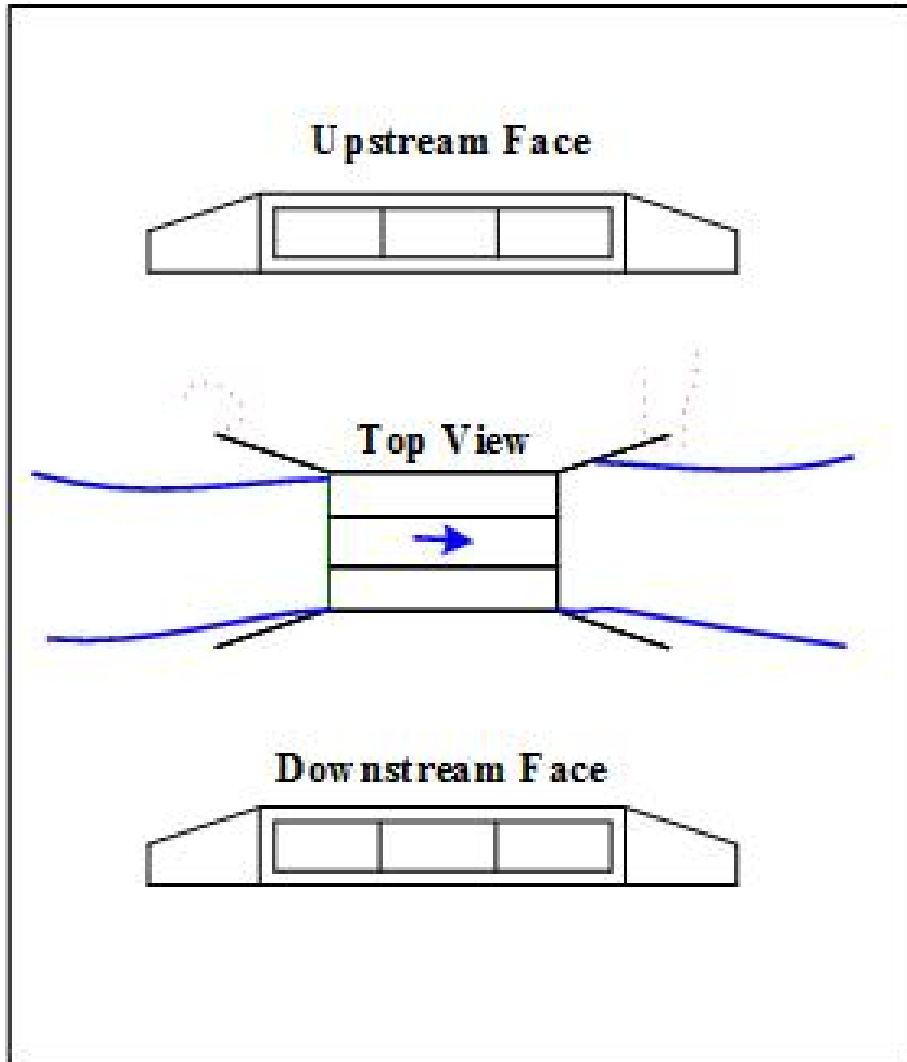
**No Underwater Inspection performed on this culvert.**

District: 4841100000 - D1 DISTRICT  
 Location ID: 219-00158X-003.86E  
 Structure ID: 219-5022-0

Inspection Area: 2  
 Over: PORTERS CREEK  
 Road Name: MCREE MILL ROAD

County: Oconee

### *Culvert Waterway Report*



<b>Bridge Height Location</b>	UPSTREAM
<b>Bridge Height (Ft)</b>	9.7
<b>Water Depth (Ft)</b>	0.3
<b>Stream Velocity</b>	Moderate
<b>Channel Soil Type</b>	Sand
<b>Scour Critical</b>	8. Foundation stable for conditions; scour above footing
<b>Slope Protection</b>	0- None

*Photographs*

IMG\_1482.JPG



Inlet

IMG\_1480.JPG



Looking East

IMG\_1481.JPG



Outlet

IMG\_1483.JPG



Cracking at the rear inlet wingwall



# Georgia Department of Transportation

## Culvert Inspection Report

**District:** 4841100000 - D1 DISTRICT

**Inspection Area:** 2

**County:** Oconee

**Location ID:** 219-00262X-006.77E

**Over:** SHOAL CREEK

**Structure ID:** 219-5028-0

**Road Name:** BARNETT SHOALS RD

**Bridge Information:** 3-Replacement with new structure at relocation





District: 4841100000 - D1 DISTRICT  
 Location ID: 219-00262X-006.77E  
 Structure ID: 219-5028-0

Inspection Area: 2  
 Over: SHOAL CREEK  
 Road Name: BARNETT SHOALS RD

County: Oconee

### *Conditional Situations*

Traffic Control : No

Underwater Inspection: No

### *Load Rating and Posting*

Truck Type	Gross/H-Modified	HSMModified	Tandem	3-S-2	Log	Piggy
Calculated Posting	00	00	00	00	00	00
Posting Required	No	No	No	No	No	No
Existing Posting	00	00	00	00	00	00

Item 103 Temporarily Shored : No

Posting Required: No

Item 41 - Structure Open, Posted or Closed: A. Open, no restriction

### *Element Data*

Element	Parent Element	Measurement Unit	Env*	Quantity	State 1	State 2	State 3	State 4
241-Reinforced Concrete Culvert		Linear Foot	2	291	261	30		

Env\* = Environment

### *Defects*

Element	Defect	State 2	State 3	State 4
241-Reinforced Concrete Culvert	Efflorescence/Rust Staining	30		

### *Maintenance Items*

Activity	Work Quantity	Priority	Location	Inspection Date	Completion Date	Comments
520 - BRUSH AND TREE CUTTING (PERSON HOURS)		C	Around culvert	10/06/2015		Cut bushes
845 - OTHER BRIDGE MAINT (PERSON HOURS)		B	Inlet and Outlet	10/06/2015		Repair scour and undermining
821 - CULVERT REPAIR (SQUARE FEET)		B	Wing	10/06/2015		Repair crack in the forward inlet wing

### *NBIS Condition Codes*

**Culvert Condition:** 7 - Good Condition

**Underwater Condition:** N - Not Applicable

**Scour Condition:** 5 - Fair Condition

**Waterway Adequacy:** 9-Bridge deck and roadway approaches above flood water elevations (high water). Chance of

**Channel Protection:** 6-Bank is beginning to slump. River control devices and embankment protection have widespread

**District:** 4841100000 - D1 DISTRICT  
**Location ID:** 219-00262X-006.77E  
**Structure ID:** 219-5028-0

**Inspection Area:** 2  
**Over:** SHOAL CREEK  
**Road Name:** BARNETT SHOALS RD

**County:** Oconee

---

**No Other Special Inspection performed on this culvert.**

**District:** 4841100000 - D1 DISTRICT

**Inspection Area:** 2

**County:** Oconee

**Location ID:** 219-00262X-006.77E

**Over:** SHOAL CREEK

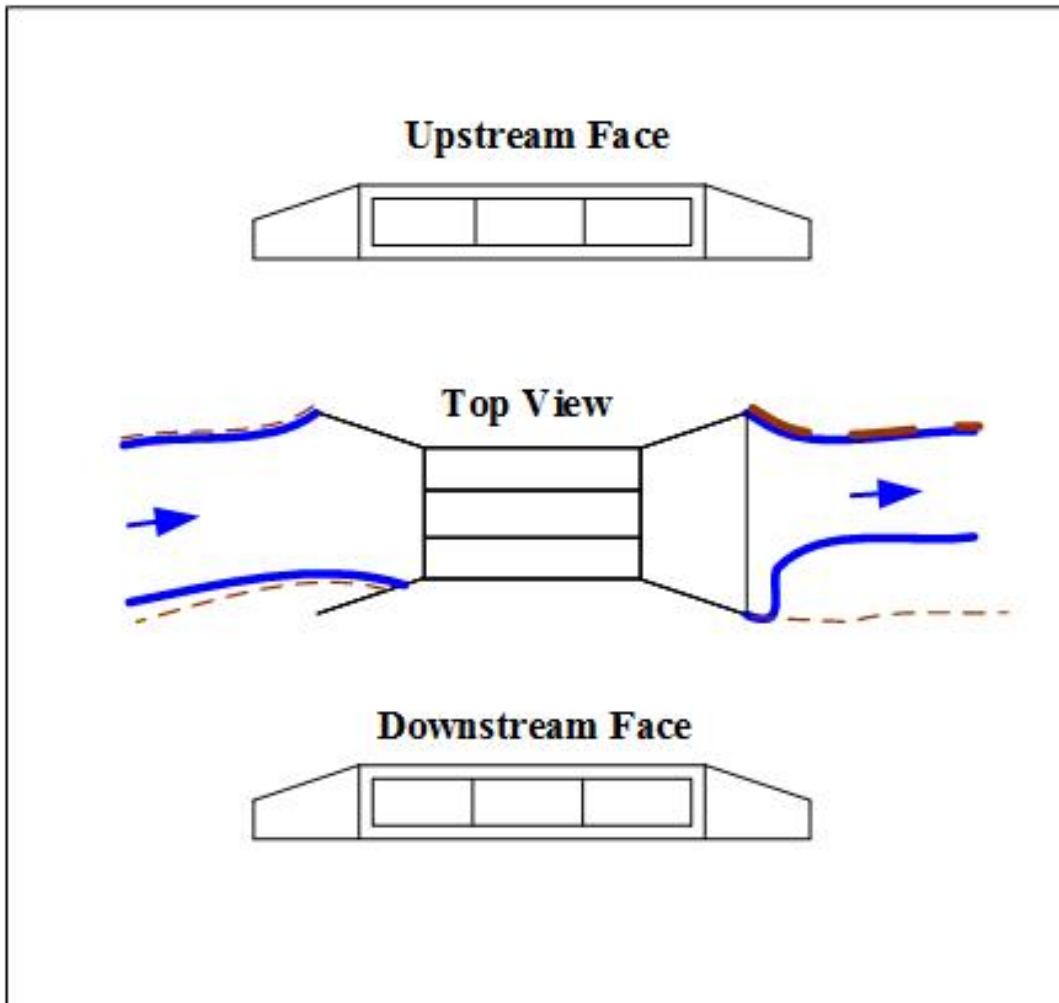
**Structure ID:** 219-5028-0

**Road Name:** BARNETT SHOALS RD

---

**No Underwater Inspection performed on this culvert.**

*Culvert Waterway Report*



<b>Bridge Height Location</b>	UPSTREAM
<b>Bridge Height (Ft)</b>	10.5
<b>Water Depth (Ft)</b>	3.5
<b>Stream Velocity</b>	
<b>Channel Soil Type</b>	
<b>Scour Critical</b>	8. Foundation stable for conditions; scour above footing
<b>Slope Protection</b>	0- None

*Photographs*

IMG\_1488.JPG



Looking East

IMG\_1491.JPG



Inlet

IMG\_1489.JPG



Outlet

IMG\_1490.JPG



Crack measuring 3" wide x 11' tall

# Georgia Department of Transportation

## Bridge Inspection Report

**District:** 4841100000 - D1 DISTRICT

**Inspection Area:** 2

**County:** Oconee

**Location ID:** 219-00268X-006.83N

**Over:** BARBER CREEK

**Structure ID:** 219-5029-0

**Road Name:** CLOTFELTER ROAD

**Bridge Information:** 6-Revised inventory or operating ratings; load limits





**District:** 4841100000 - D1 DISTRICT  
**Location ID:** 219-00268X-006.83N  
**Structure ID:** 219-5029-0

**Inspection Area:** 2  
**Over:** BARBER CREEK  
**Road Name:** CLOTFELTER ROAD

**County:** Oconee

## Evaluation

**Topside Inspection Team**                      **Inspection Type:** General                      **Inspection Date:** 08/08/2019  
**Team Leader:** Vinson Thomas Tanner  
**Assistants:** Perry Rogers

### Deck

**NBIS Condition** 5 - Fair Condition                      **Material:** O. Concrete

**Deck Wearing Surface Type:** 1. Concrete

6" Concrete deck

Span 1 has numerous transverse cracks in the south bound lane all the way through with light efflorescence on the bottom.

Span 2 has delamination.

All spans have minor shrinkage cracking and abrasion.

All spans have hairline cracking on the bottom.

High chairs exposed on the bottom of the deck.

The deck joints need to be clean and sealed.

### Superstructure

**NBIS Condition** 6 - Satisfactory Condition                      **Material:** O. Concrete

**Year Painted:** 0000

**Paint Type :** 0- Not Applicable

**Temperature (F):**

4 - Concrete T beams per span on 7.3' centers (18"W x 23"D)

Beams have minor deflection cracking.

Beams 1, 2 and 3 at abutment 1 have hairline diagonal cracking.

All beams at abutment 4 have hairline diagonal cracking.

Exposed high chairs in bottom of beams. Minor.

Minor cracking in the end wall at abutment 4.

Georgia standard number - 3559 A and B (modified)

### Substructure

**NBIS Condition** 7 - Good Condition                      **Material:** O. Concrete

**Year Painted:** 0000

**Paint Type :** 0- Not Applicable

Abutments - 10" Steel H piling and concrete caps

Bents - Spread footings, concrete columns and concrete caps

Minor vertical cracking in all caps at the step downs.

Exposed high chairs in bottom of caps at bents 2 and 3.

### General

#### This Bridge:

Clotfelter Road over Barber Creek

Void under the forward left wing wall, minor.

Approach slabs have an asphalt overlay.

Need to cut bushes around the structure.

The bridge was posted correctly at time of the inspection.

Data entered by: Billy Lanthrip

### Conditional Situations

**Confined Space:** No

**Traffic Control Needed:** No

District: 4841100000 - D1 DISTRICT  
 Location ID: 219-00268X-006.83N  
 Structure ID: 219-5029-0

Inspection Area: 2 County: Oconee  
 Over: BARBER CREEK  
 Road Name: CLOTFELTER ROAD

### Equipment Used

Access Equipment: None  
 Waders: Hip boots

Topside Boat: None  
 Special Imaging Device: None

### Load Rating and Posting

Truck Type	Gross/H-Modified	HSMModified	Tandem	3-S-2	Log	Piggy
Calculated Posting	13	15	13	21	17	00
Posting Required	Yes	Yes	Yes	Yes	Yes	No
Existing Posting	13	15	13	15	17	21

Item 103 Temporarily Shored : No

Posting Required: Yes

Item 41 - Structure Open, Posted or Closed: P. Posted for load

### Element Data

Element	Parent Element	Measurement Unit	Env*	Quantity	State 1	State 2	State 3	State 4
16-Reinforced Concrete Top Flange		SQUARE FEET	2	3864	425	3416	23	
110-Reinforced Conc Open Girder/Beam		Linear Foot	2	480	291	189		
205-Reinforced Conc Column		Each	2	4	4			
215-Reinforced Conc Abutment		Linear Foot	2	72	62	10		
234-Reinforced Conc Pier Cap		Linear Foot	2	60	50	10		
301-Pourable Joint Seal		Linear Foot	2	104	0		104	
321-Reinforced Concrete Approach Slab		SQUARE FEET	2	1932	1932			
510-Wearing Surfaces (321)	321-Reinforced Concrete Approach Slab	SQUARE FEET	2	1932	1932			
331-Reinforced Concrete Bridge Railing		Linear Foot	2	240	138	102		

Env\* = Environment

### Defects

Element	Defect	State 2	State 3	State 4
110-Reinforced Conc Open Girder/Beam	Cracking (RC and Other)	189		
16-Reinforced Concrete Top Flange	Cracking (RC and Other)	2710	23	
16-Reinforced Concrete Top Flange	Efflorescence/Rust Staining	106		
16-Reinforced Concrete Top Flange	Abrasion/Wear (PSC/RC)	400		
16-Reinforced Concrete Top Flange	Delamination/Spall/Patched Area	200		
215-Reinforced Conc Abutment	Cracking (RC and Other)	10		
234-Reinforced Conc Pier Cap	Cracking (RC and Other)	10		
301-Pourable Joint Seal	Seal Adhesion		104	
331-Reinforced Concrete Bridge Railing	Cracking (RC and Other)	102		

District: 4841100000 - D1 DISTRICT

Inspection Area: 2

County: Oconee

Location ID: 219-00268X-006.83N

Over: BARBER CREEK

Structure ID: 219-5029-0

Road Name: CLOTFELTER ROAD

---

*Maintenance Items*

Activity	Work Quantity	Priority	Location	Inspection Date	Completion Date	Comments
520 - BRUSH AND TREE CUTTING (PERSON HOURS)		C	Structure	11/03/2015		Cut the bushes around the structure.
810 - DECK REPAIR (SQUARE FEET)		B	Deck	11/03/2015		Seal the cracking in the deck in span 1
800 - BRIDGE JOINT SEALING (LINEAR FEET)		C	Deck joints	11/03/2015		Clean and seal the deck joints

**District:** 4841100000 - D1 DISTRICT

**Inspection Area:** 2

**County:** Oconee

**Location ID:** 219-00268X-006.83N

**Over:** BARBER CREEK

**Structure ID:** 219-5029-0

**Road Name:** CLOTFELTER ROAD

---

**No Specialized Inspection performed on this bridge.**

**District:** 4841100000 - D1 DISTRICT

**Inspection Area:** 2

**County:** Oconee

**Location ID:** 219-00268X-006.83N

**Over:** BARBER CREEK

**Structure ID:** 219-5029-0

**Road Name:** CLOTFELTER ROAD

---

**No Other Special Inspection performed on this bridge.**

**District:** 4841100000 - D1 DISTRICT

**Inspection Area:** 2

**County:** Oconee

**Location ID:** 219-00268X-006.83N

**Over:** BARBER CREEK

**Structure ID:** 219-5029-0

**Road Name:** CLOTFELTER ROAD

---

**No Fracture Critical Inspection performed on this bridge.**

District: 4841100000 - D1 DISTRICT  
Location ID: 219-00268X-006.83N  
Structure ID: 219-5029-0

Inspection Area: 2  
Over: BARBER CREEK  
Road Name: CLOTFELTER ROAD

County: Oconee

---

***Bridge Components***

***Superstructure Data***

Span #	Beam Type	Beam Spacing	Length	# Beams	Remarks
1	Concrete "T" Beam	7.3	40	4	18W" x 23"D
2	Concrete "T" Beam	7.3	40	4	18W" x 23"D
3	Concrete "T" Beam	7.3	40	4	18W" x 23"D

***Bearing Data***

Span #	Rear Type Bearing	Forward Type Bearing	Remarks
1	08 - Beam on Cap	08 - Beam on Cap	
2	08 - Beam on Cap	08 - Beam on Cap	
3	08 - Beam on Cap	08 - Beam on Cap	

**District:** 4841100000 - D1 DISTRICT

**Inspection Area:** 2

**County:** Oconee

**Location ID:** 219-00268X-006.83N

**Over:** BARBER CREEK

**Structure ID:** 219-5029-0

**Road Name:** CLOTFELTER ROAD

---

**This bridge has no intersected feature.**



**District:** 4841100000 - D1 DISTRICT

**Inspection Area:** 2

**County:** Oconee

**Location ID:** 219-00268X-006.83N

**Over:** BARBER CREEK

**Structure ID:** 219-5029-0

**Road Name:** CLOTFELTER ROAD

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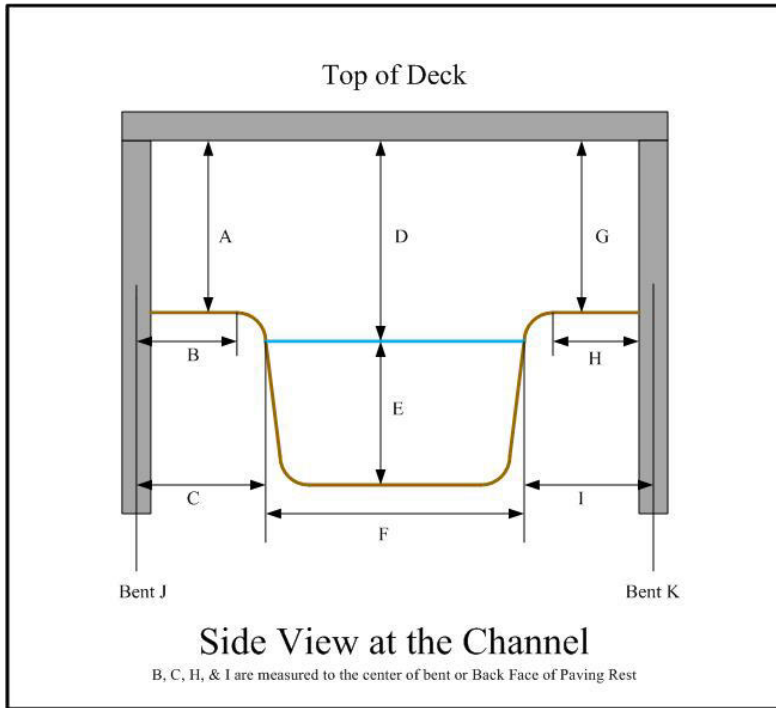
**No Underwater Inspection performed on this bridge.**

District: 4841100000 - D1 DISTRICT  
 Location ID: 219-00268X-006.83N  
 Structure ID: 219-5029-0

Inspection Area: 2  
 Over: BARBER CREEK  
 Road Name: CLOTFELTER ROAD

County: Oconee

**Waterway Information**



- A : 19.8
- B : 0
- C : 3
- D : 22.5
- E : 2.5
- F : 28
- G : 19
- H : 0
- I : 9
- J : 2
- K : 3

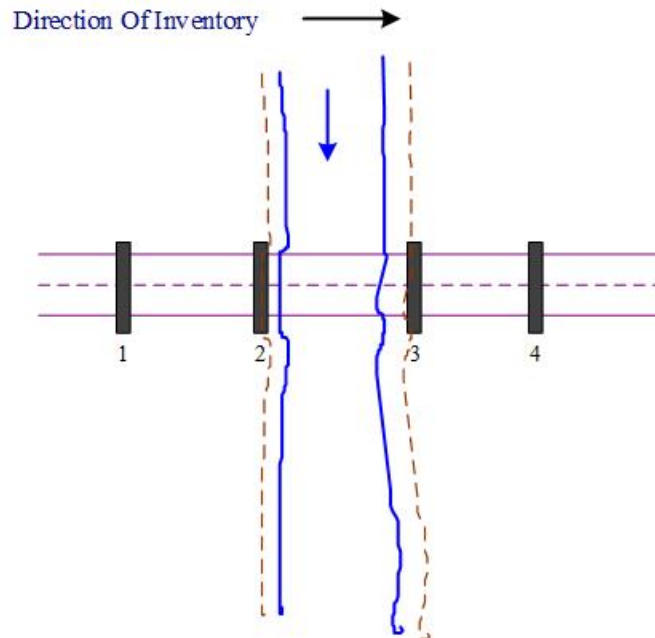
Location of Bridge Height : 20' forward of bent 2  
 Bridge Height Taken: DOWNSTREAM  
 Scour Condition : 8  
 Waterway Adequacy : 9  
 Channel Protection : 6

Comments :

Substructure Skew = 0

Channel Skew = 0

Stream Angle = 0



**District:** 4841100000 - D1 DISTRICT  
**Location ID:** 219-00268X-006.83N  
**Structure ID:** 219-5029-0

**Inspection Area:** 2  
**Over:** BARBER CREEK  
**Road Name:** CLOTFELTER ROAD  
**County:** Oconee

---

***Collision Information***

**Beam Type :**  
**Span # with Beam Damage :**  
**Total # of Beams in Span :**  
**# of Damaged Beams :**

**Minimum Vertical Clearance :** ft - in

**Actual Vertical Clearance at Point of Impact :** ft - in

**Posted Vertical Clearance :** ft - in

**Report Type :**

**Report Date :**

---

**Damage Location in Span :**

**Damage Type :**

**Damage Details :**

**Repairs Required :** No

**Repairs Made :** No

**Repair Details :**

**Additional Comments :**

*Photographs*

IMG\_1368.JPG



Span 2 showing delamination and abrasion.

IMG\_1372.JPG



Look north at bent 3

IMG\_1367.JPG



Forward

IMG\_1370.JPG



Rear

IMG\_1371.JPG



Downstream, Looking North

IMG\_1369.JPG



Looking North

# Georgia Department of Transportation

## Bridge Inspection Report

**District:** 4841100000 - D1 DISTRICT

**Inspection Area:** 2

**County:** Oconee

**Location ID:** 219-00344X-000.97N

**Over:** McNUTT CREEK

**Structure ID:** 219-5035-0

**Road Name:** EPPS BRIDGE PARKWAY

**Bridge Information:** 2-Replacement with new structure at same location



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## *Evaluation*

**Topside Inspection Team**                      **Inspection Type:** General                      **Inspection Date:** 08/08/2019  
**Team Leader:** Vinson Thomas Tanner  
**Assistants:** Perry Rogers

### **Deck**

**NBIS Condition** 7 - Good Condition                      **Material:** O. Concrete

**Deck Wearing Surface Type:** 1. Concrete

Concrete Deck is on corrugated metal deck forms  
Transverse grooves are cut in the deck

One hairline skew like crack in span 1 just forward of abutment 1 (SBL)  
The concrete median has hairline transverse cracking through-out.

### **Superstructure**

**NBIS Condition** 8 - Very Good Condition                      **Material:** O. Concrete                      **Year Painted:** 0000

**Paint Type :** 0- Not Applicable                      **Temperature (F):**

PSC beams (Type III)

Concrete diaphragms at 90 degrees.  
No problems.

### **Substructure**

**NBIS Condition** 7 - Good Condition                      **Material:** O. Concrete                      **Year Painted:** 0000

**Paint Type :** 0- Not Applicable

Abutments - 12" Steel H piles and concrete caps  
Bents - 12" Steel H pile footings, concrete columns and concrete caps

Hairline vertical cracks in all caps at several step-downs.  
Minor settlement under the right end of abutment 1 cap, +/-3".  
Minor settlement under the left end of abutment 4 cap, +/-3".  
The left wing wall at abutment 4 is cracked at the cap. No maintenance required this inspection

Rip rap is on the slopes and flood plain from abutment to abutment.

### **General**

**This Bridge:**

Epps Bridge Parkway over McNutt Creek

Route is CR 344 not SR 316 as per road inventory.  
Concrete parapet has minor cracking with light efflorescence at several locations.  
Need to cut the bushes and kill the kudzu under and around the structure.

Data entered by Perry Rogers.

### **Conditional Situations**

**Confined Space:** No

**Traffic Control Needed:** No

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### Equipment Used

**Access Equipment:** None

**Topside Boat:** None

**Waders:** Hip boots

**Special Imaging Device:** None

### Load Rating and Posting

Truck Type	Gross/H-Modified	HSMModified	Tandem	3-S-2	Log	Piggy
Calculated Posting	20	25	28	40	36	00
Posting Required	No	No	No	No	No	No
Existing Posting	00	00	00	00	00	00

**Item 103 Temporarily Shored :** No

**Posting Required:** No

**Item 41 - Structure Open, Posted or Closed:** A. Open, no restriction

### Element Data

Element	Parent Element	Measurement Unit	Env*	Quantity	State 1	State 2	State 3	State 4
12-Reinforced Concrete Deck		SQUARE FEET	2	17406	17329	77		
109-P/S Conc Open Girder/Beam		Linear Foot	2	2160	2160			
205-Reinforced Conc Column		Each	2	10	10			
215-Reinforced Conc Abutment		Linear Foot	2	202	170	32		
234-Reinforced Conc Pier Cap		Linear Foot	2	190	162	28		
301-Pourable Joint Seal		Linear Foot	2	328	328			
310-Elastomeric Bearing		Each	2	72	72			
321-Reinforced Concrete Approach Slab		SQUARE FEET	2	5802	5802			
333-Other Bridge Railing		Linear Foot	2	360	230	130		

**Env\* = Environment**

### Defects

Element	Defect	State 2	State 3	State 4
12-Reinforced Concrete Deck	Cracking (RC and Other)	77		
215-Reinforced Conc Abutment	Cracking (RC and Other)	32		
234-Reinforced Conc Pier Cap	Cracking (RC and Other)	28		
333-Other Bridge Railing	Efflorescence/Rust Staining	50		
333-Other Bridge Railing	Cracking (RC and Other)	56		
333-Other Bridge Railing	Cracking	24		

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*Maintenance Items*

Activity	Work Quantity	Priority	Location	Inspection Date	Completion Date	Comments
800 - BRIDGE JOINT SEALING (LINEAR FEET)	65	C	Abutment 4	10/25/2005	08/08/2019	Need to clean and seal the deck joint at abutment 4.
520 - BRUSH AND TREE CUTTING (PERSON HOURS)	24	C	Whole structure	10/25/2005		Need to cut the bushes and kill the kudzu under and around the structure.



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**No Specialized Inspection performed on this bridge.**

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**No Other Special Inspection performed on this bridge.**

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**No Fracture Critical Inspection performed on this bridge.**

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Over: McNUTT CREEK

Structure ID: 219-5035-0

Road Name: EPPS BRIDGE PARKWAY

***Bridge Components***

***Superstructure Data***

Span #	Beam Type	Beam Spacing	Length	# Beams	Remarks
1	PSC "I" Beam	8.3	60	12	Type III
2	PSC "I" Beam	8.3	60	12	Type III
3	PSC "I" Beam	8.3	60	12	Type III

***Bearing Data***

Span #	Rear Type Bearing	Forward Type Bearing	Remarks
1	03-Elastomeric	03-Elastomeric	
2	03-Elastomeric	03-Elastomeric	
3	03-Elastomeric	03-Elastomeric	

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**This bridge has no intersected feature.**

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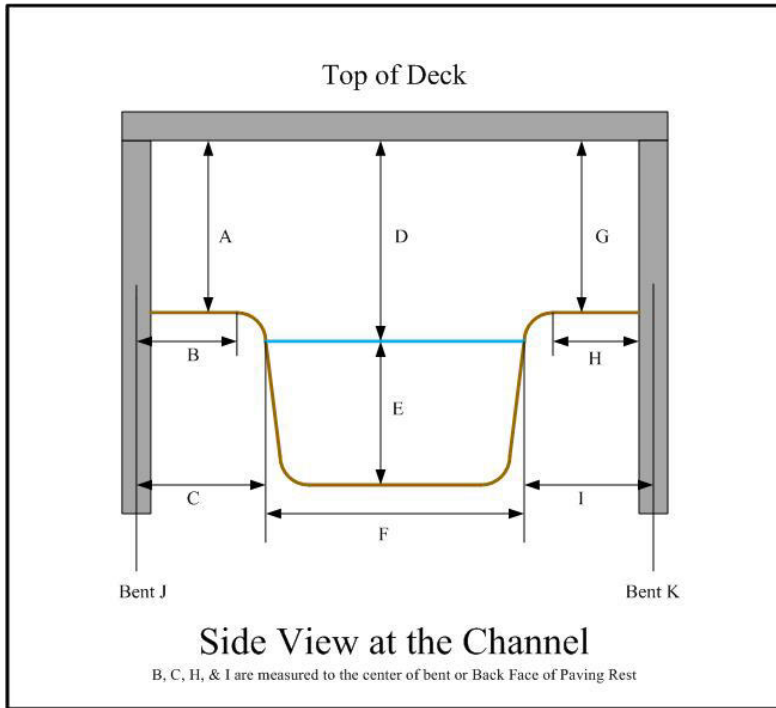
**No Underwater Inspection performed on this bridge.**

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**County:** Oconee

**Waterway Information**



- A :** 18.3
- B :** 20
- C :** 35
- D :** 24.4
- E :** 1.6
- F :** 17
- G :** 16.1
- H :** 50
- I :** 68
- J :** 2
- K :** 4

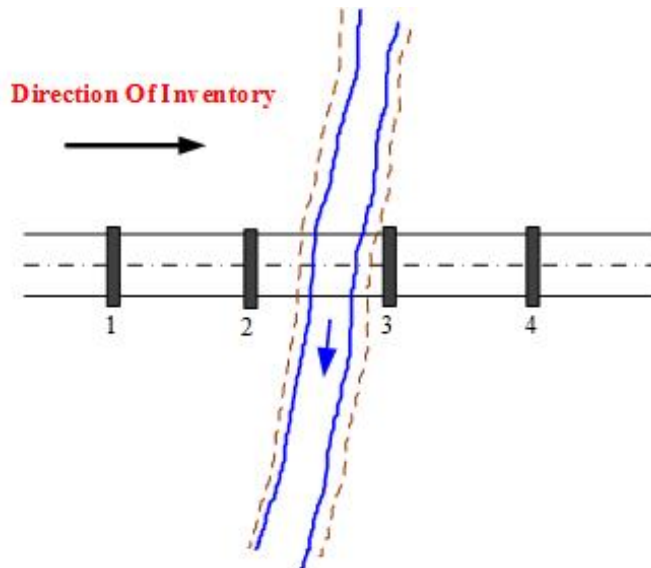
**Location of Bridge Height :** 17' rear of bent 2  
**Bridge Height Taken:** DOWNSTREAM  
**Scour Condition :** 8  
**Waterway Adequacy :** 8  
**Channel Protection :** 8

**Comments :**

**Substructure Skew =** 0

**Channel Skew =** 15

**Stream Angle =** 15



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***Collision Information***

**Beam Type :**  
**Span # with Beam Damage :** 0  
**Total # of Beams in Span :** 0  
**# of Damaged Beams :** 0

**Minimum Vertical Clearance :** 0 ft - 0 in

**Actual Vertical Clearance at  
Point of Impact :** 0 ft - 0 in

**Posted Vertical Clearance :** 0 ft - 0 in

**Report Type :** 0

**Report Date :**

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**Damage Location in Span :**

**Damage Type :** 0.0

**Damage Details :**

**Repairs Required :** No

**Repairs Made :** No

**Repair Details :**

**Additional Comments :**



*Photographs*

**IMG\_1350.JPG**



Typical of deck

**IMG\_1351.JPG**



Downstream, Looking South

**IMG\_1352.JPG**



Looking South toward Bent 2

**IMG\_1349.JPG**



Looking North

**IMG\_1353.JPG**



Gas line bottom left between beams 1 and 2.