

# GEORGIA DEPARTMENT OF TRANSPORTATION

## Bridge Inspection Report

**District:** 3  
**Bridge Inspector:** Bryon Patterson  
**Location ID:** 255-02082F-010.10N  
**Structure ID:** 255-0039-0

**Inspection Date:** 8/30/2012  
**Over:** HEADS CREEK  
**County:** Spalding

**Inspection Area:** 03  
**Bridge Status:** 06

**Road Name:** VAUGHN ROAD

### EVALUATION & DEFICIENCIES

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#### SubStructure:

**Year Painted:** 0000

Concrete abutments.  
Six intermediate bents.  
Each a 19.0" d x 24.0" w concrete cap on timber piling.  
Straddle bents are added.  
Boat was used at this structure 10/17/02

Design load - H15.

8/30/2012: Due to Bent #6, pile #3 having no bearing, load rate calculation may need to be recalculated.

Moderate cap cracking with efflorescence leaking. several caps have exposed rebar (See photo. Bent #4 cap left of pile #2, typical)

Typical timber deterioration.

Minor bank scour at bent 2.

Bents #3 and 4 needs to be properly braced

9/02/2010: All piles sounded & one cored.

#### Deficient Piles:

Bent #3 Pile #2 -- Minor rotten section -- Monitor

Bent #4 Pile #2 -- Poor Condition --Schedule for replacement--Need to re-check calculations due to additional rot.

Bent #4 Pile #4 -- Poor condition--2 different rotten sections.

Bent #6 Piles #3 & 4 --Moderate rotten sections @ the ground line.

Bent #6, Pile #3 has no bearing and is loose (can be moved by hand), can not count.

#### SuperStructure:

**Year Painted:** 0000

Six simple spans of Four interior 12"x3' & Two 12"x2.8' & Two exterior 12"x4' concrete deck panels with 0.9' mortar joints. spaced 4.0"

Design load = H15.

Hairline bottom transverse cracking.

Deck panels #2 & 7 have spalls with exposed rebar.

Concrete patches over straddle bents on the bottom side have spalls with exposed rebar.

#### Deck:

12.0" concrete deck with 2.0" asphalt overlay.

Design load = H15.

Moderate spalling in the soffit with exposed rebar

Efflorescence is leaking through the soffit longitudinal joints.

Transverse asphalt cracking over the deck joints.

Hairline transverse bottom deck cracking.

Concrete patches over straddle bents on the bottom side have spalls with exposed rebar.

#### General:

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### EVALUATION & DEFICIENCIES

Built 1954 and reconstructed in 1989, 120.0' x 29.4'.  
 Project # PR 35-3 (255)  
 Equipment Used: Hand Tools, Chest waders, Drill.

Minor erosion Right rear shoulder.  
 Minor roadway settlement at South approach.  
 Moderate roadway settlement at North approach.

Recommended repairs:  
 Moderate spalling in the soffit with exposed rebar.  
 Bent 3 and 4 needs to be properly braced due to unbraced lengths.  
 Pile #2 @ bent #4 needs to be scheduled for replacement.  
 Bent #6, Pile #3 has no bearing and is loose( can be moved by hand), and needs to be repaired.

#### Condition Rating

Temp Shored: **Yes**

Component	Material	Rating
Substructure	Conc/Timb/Steel	4
Superstructure	Concrete	5
Deck	Concrete	5

Truck Type	Gross/H-Mod	HSMOD	Tand	3-S-2	Log	Piggy
Calculated Posting	11	14	11	18	16	00
Posting Required	Yes	No	Yes	No	Yes	No
Existing Posting	13	00	16	29	22	00

\*\*\*School Bus Route.\*\*\*

**Structure Requires Posting**