WILSON COUNTY

PRODUCED PURSUANT TO
PUBLIC RECORDS REQUEST
This document is covered by 23 USC §409
And its production pursuant to a public
document records request does not
waive the provisions of §409

BRIDGE MAINTENANCE RECOMMENDATIONS

Tennessee Department of Transportation

COUNTY: WILSON
LOCATION: 95-I0040-04.21-
CO. SEQ.: 1 SPEC. CASE: 0
MILEPOST: 226.86

CROSSING: STONER CREEK
FED. BRIDGE NO.: 95I00400005
MAINT. DIST.: 95

REPAIR LIST NO.: N
DATE ADDED:
REVISED: 02/26/2010

FACILITY CARRIED:	I40	NUMBER OF MAIN SPANS:	3
HIGHWAY SYSTEM:	01-INTERSTATE RURAL	NUMBER OF APPROACH SPANS:	0
BRIDGE WIDTH (CURB TO CURB):	N/A FT IN	BRIDGE LENGTH (FT):	39
BRIDGE WIDTH (OUT TO OUT):	N/A FT IN	MAXIMUM SPAN LENGTH (FT):	12
APPROACH ROADWAY (W/SHOULDERS):	129 FT 11 IN	SKEW ANGLE (DEGREES):	90

MAINTAINED BY:	STATE HIGHWAY AGENCY
MAIN SPAN MATERIAL:	CONCRETE CONTINUOUS
MAIN SPAN DESIGN TYPE:	CULVERT (INCLUDES FRAME CULVERTS)
APPROACH SPAN MATERIAL:	OTHER OR NOT APPLICABLE
APPROACH SPAN DESIGN TYPE:	OTHER OR NOT APPLICABLE

INSPECTION DATE:	02/26/2010	GENERAL CONDITION:	GOOD
EVALUATION DATE:	03/07/2008	STRUCTURALLY DEFICIENT:	NO
PPRM PIN NUMBER:			
H TRUCK RATING @ INV.:	20 TONS	SUFFICIENCY RATING:	67.0

SUGGESTED ROUTINE MAINTENANCE AND COMMENTS

CLEAR DRIFT AT INLET

GENERAL COMMENTS:

PRODUCED PURSUANT TO
PUBLIC RECORDS REQUEST
This document is covered by 23 USC §409
And its production pursuant to a public
document records request does not
waive the provisions of §409

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

Bridge Condition Coding Form

Revised 03/02/2010

County:	95
Route:	I0040
Special Case:	0
County Sequence:	1
Log Mile:	4.21

Bridge Number: (Includes Item 5A)	95I004000051
Feature Intersected:	STONER CREEK
Evaluation Status:	OTHER ITEM(S) HAVE BEEN CHANGED

CODE ONLY THOSE VALUES WHICH HAVE CHANGED

ITEM #	DESCRIPTION	VALUE
90	LAST INSPECTION DATE	02/26/2010
	EARLIEST DATE OF NEXT REGULAR INSPECTION	12/28/2011
		/ /
10	MINIMUM V.C. OVER DECK (ROADWAY + SHOULDERS)	99 FT. 99 IN.
		FT. IN.
520	MINIMUM V.C. OVER DECK (EXCLUDES SHOULDERS)	99 FT. 99 IN.
		FT. IN.
36	TRAFFIC SAFETY FEATURES	

Br. Rail	Trans.	Appr. Rail	Terminal	SPEED LIMIT
0	0	0	0	70

41	STRC OPEN/CLOSED/POSTED (A K P)	A
58	DECK	N
59	SUPERSTRUCTURE	N
60	SUBSTRUCTURE	N
61	CHANL/CHANL PROTECTION	7
62	CULVERT AND RETAIN WALL	6
71	WATERWAY ADEQUACY	6
72	APPROACH RDWY ALIGNMENT	8
521	OVERALL CONDITION	GOOD

16 LATITUDE	17 LONGITUDE
N 36° 10.4120′	W 86° 29.5900′

Gilbert W Hunter

Digitally signed by Gilbert W Hunter
DN: cn=Gilbert W Hunter, c=US, o=TDOT, ou=Bridge Inspection
Date: 2010.03.02 08:52:29 -06'00'

TEAM LEADER SIGNATURE

/ /
REVIEW DATE

CONDITION CODING GUIDELINES

(Values for Coding Items 58, 59, 60 and 62)

- N NOT APPLICABLE
- 9 EXCELLENT CONDITION
- 8 VERY GOOD CONDITION - NO PROBLEMS NOTED.
- 7 GOOD CONDITION - SOME MINOR PROBLEMS.
- 6 SATISFACTORY CONDITION - MINOR DETERIORATION OF STRUCTURAL ELEMENTS.
- 5 FAIR CONDITION - ALL PRIMARY STRUCTURAL ELEMENTS ARE SOUND BUT MAY HAVE MINOR SECTION LOSS, CRACKING, SPALLING OR SCOUR.
- 4 POOR CONDITION - ADVANCED SECTION LOSS, DETERIORATION, SPALLING OR SCOUR.
- 3 SERIOUS CONDITION - LOSS OF SECTION, DETERIORATION, SPALLING OR SCOUR HAVE SERIOUSLY AFFECTED PRIMARY STRUCTURAL COMPONENTS. LOCAL FAILURES ARE POSSIBLE. FATIGUE CRACKS IN STEEL OR SHEAR CRACKS IN CONCRETE MAY BE PRESENT.
- 2 CRITICAL CONDITION - ADVANCED DETERIORATION OF PRIMARY STRUCTURAL ELEMENTS. FATIGUE CRACKS IN STEEL OR SHEAR CRACKS IN CONCRETE MAY BE PRESENT OR SCOUR MAY HAVE REMOVED SUBSTRUCTURE SUPPORT. UNLESS CLOSELY MONITORED IT MAY BE NECESSARY TO CLOSE THE BRIDGE UNTIL CORRECTIVE ACTION IS TAKEN.
- 1 "IMMINENT" FAILURE CONDITION - MAJOR DETERIORATION OR SECTION LOSS PRESENT IN CRITICAL STRUCTURAL COMPONENTS OR OBVIOUS VERTICAL OR HORIZONTAL MOVEMENT AFFECTING STRUCTURAL STABILITY. BRIDGE IS CLOSED TO TRAFFIC BUT CORRECTIVE ACTION MAY PUT IT BACK IN LIGHT SERVICE.
- 0 FAILED CONDITION - OUT OF SERVICE AND BEYOND CORRECTIVE ACTION.

PRODUCED PURSUANT TO PUBLIC RECORDS REQUEST
This document is covered by 23 USC §409
Use as provided pursuant to a public document records request does not waive the provisions of §409

Photographs

Bridge ID#: 95-I40-4.21 **Date: 02/26/2010**

ABUTMENT TYPICAL

PIER TYPICAL WITH DRIFT

PRODUCED PURSUANT TO
PUBLIC RECORDS REQUEST
This document is covered by 23 USC §409
And its production pursuant to a public
document records request does not
waive the provisions of §409

Photographs

Bridge ID#: 95-I40-4.21 **Date: 02/26/2010**

BRIDGE NO.

DOWNSTREAM

PRODUCED PURSUANT TO
PUBLIC RECORDS REQUEST
This document is covered by 23 USC §409
And its production pursuant to a public
document records request does not
waive the provisions of §409

Photographs

Bridge ID#: 95-I40-4.21 **Date: 02/26/2010**

UPSTREAM

INLET ELEVATION

PRODUCED PURSUANT TO
PUBLIC RECORDS REQUEST
This document is covered by 23 USC §409
And its production pursuant to a public
document records request does not
waive the provisions of §409

Photographs

Bridge ID#: 95-I40-4.21 **Date: 02/26/2010**

VIEW ACROSS DECK

A-APPROACH

PRODUCED PURSUANT TO
PUBLIC RECORDS REQUEST
This document is covered by 23 USC §409
And its production pursuant to a public
document records request does not
waive the provisions of §409

Photographs

Bridge ID#: 95-I40-4.21 **Date: 02/26/2010**

B-APPROACH

PRODUCED PURSUANT TO
PUBLIC RECORDS REQUEST
This document is covered by 23 USC §409
And its production pursuant to a public
document records request does not
waive the provisions of §409

BRIDGE INSPECTION REPORT (CULVERTS)

Page No.___

Form BIR 3.5
03/20/78 (Rev. 9-22-98)
DT-1540

Field Report No. 19 Date 2/26/2010
Previous Report No. 18 Date 2/20/2008
Plans: YES

Bridge No. 95I00400005 (Eleven Digit No.)
Bridge Location No. 95 - I0040 - 4.21 (Co. - Route - Log Mile)

I-40 (Road Name) over STONER CREEK * (Stream Name) NA (Structure Name (If Named))

Year Constructed 1962 EST County Wilson Maintenance District 32

FEATURES

Wearing Surface ASPHALT Depth _____ (in.)

NBIS Bridge Length (<25 ft.) >25 (ft.-in.)

Flared Width _____ Median Width NONE

Bridge Skew 90 ° Under 4 ft. Fill (Depth)

Structure Type CS Barrels 3 (No.) @ 12 (Span) X 8 (Depth) (ft.)

WIDTHS (*.* ft.)

Deck Out-to-Out: at 90° 206 Along Skew _____

Bridge Length: at 90° 38.75 Along Rdwy C.L. _____

Roadway: Rail/Rail NA Curb/Curb NA

Approach Roadway (does not include shoulders): 36

Approach Shoulder: Rt. 12 Lt. 10.5

Sidewalk: Rt. NA Lt. NA

Other (Ex: Median) _____

INSPECTORS

1. HUNTER
2. HALLIBURTON
3. WALLER
4. CRUTCHER
5. DANIEL
6. WHEELEY

SIGNING

	Yes/ No/ Needed
Paddleboards	NO/NO/NA
Bridge Number	YES
Narrow Bridge Signs	NO/NO/NA
One Lane Bridge Signs	NO/NA

Weight Limit Posted NO

Gross..... _____ Tons

2 Axle..... _____ Tons

3 or more Axles.. _____ Tons

Bridge is: OPEN

Other Signs: _____

Problems with Signing: _____

UNDERWATER INSPECTION

To Be Performed By: NONE REQUIRED Date _____

COMMENTS:

Supervising Bridge Inspector: WAYNE HUNTER

BRIDGE RATING: GOOD

PRODUCED PURSUANT TO
PUBLIC RECORDS REQUEST
This document is covered by 23 USC §409
And its production pursuant to a public
records request does not
waive the provisions of §409

Form BIR 3.7
(Rev. 9-22-98)
DT-1424

Page No.___

Bridge Location No. 95 - I0040 - 4.21
Co. Route Log Mile

Date 2/26/2010

TRAFFIC SAFETY FEATURES

	Rating	Standard/ SubStandard	Comments
Bridgerailing	NONE		
Transitions	NONE		
Guardrail	NONE		
Guardrail Terminal	NONE		

CULVERT and RETAINING WALLS

Barrel:	Rating	Comments
CONCRETE	GOOD	
Headwalls/Curbs	GOOD	
Cutoff Wall	NA	
Wingwall	GOOD	
Adequacy	GOOD	
Debris/Drift	FAIR	*MODERATE DRIFT AT INLET*
Sediment	GOOD	
Vegetation	GOOD	
Channel Scour	GOOD	
Drains	NA	

APPROACH

Alignment	GOOD	
Pavement	GOOD	
Embankment	GOOD	

PRODUCED PURSUANT TO
PUBLIC RECORDS REQUEST
This document is covered by 23 USC §409
And its production pursuant to a public
document records request does not
waive the provisions of §409

Form BIR 3.8
(Rev. 9-22-98)
DT-1508

Page No.___

Bridge Location No. 95 - I0040 - 4.21 (Co. - Route - Log Mile)

Date 2/26/2010

STREAM CHANNEL DATA AND CONDITIONS

Stream Crossing: STONER CREEK *

I. 1. Type of bed material? BEDROCK

2. Has channel shifted? NO (Yes/ No/ Not Apparent)

3. Condition of rip-rap? NA Est. % failed ____%

4. Overall condition of channel? 7

5. Item 61 - Code values 0 thru 9 according to the recording and coding guide currently in effect: 7

6. Underwater diver inspection recommended? NO
If yes, why? ____

II. Channel and bank stability conditions: (yes if applicable)

1. Steep bank conditions: Failures upstream ____ Failures downstream ____

2. Moderate bank erosion ____

3. Bank vegetation: a. low growth YES b. large timber ____ c. clear banks ____
d. dead trees upstream ____ e. dead trees downstream ____

4. Sediment or gravel accumulation: NO (Yes/ No/ Unknown)

5. Channel altered or straightened: NO (Yes/ No/ Unknown)

6. Stable conditions: a. live growth YES b. bedrock YES
c. boulders ____ d. flat slopes (<=2:1) ____

III. Waterway adequacy and debris characteristics: (yes if applicable)

1. Bridge deck elevations:
a. level with approach roadway. . . . . YES
b. higher than approach roadway. . . . . ____
c. roadway approach >= 2 ft. above natural ground line. . YES

2. Abutment encroaches into channel. . . . . ____

3. Large scour (blowhole) under bridge. . . . . ____

4. Indications that flood waters overtop bridge: NO (Yes/No)
If YES, Answer: Occasionally, Frequently, or Unknown ____

5. Debris characteristics:
a. debris/drift present YES
b. debris/drift likely to accumulate YES
c. dead trees upstream ____ dead trees downstream ____

IV. Comments:

SPECIAL INSPECTION DATA - FOR REASONS OTHER THAN FC OR SCOUR

I. Does this bridge need a special inspection? NO

II. Reason for special inspection:

PRODUCED PURSUANT TO
PUBLIC RECORDS REQUEST
This document is covered by 23 USC §409
And its production pursuant to a public
document records request does not
waive the provisions of §409

SUMMARY
95-I40-4.21
2/26/2010

I40/Stones Cr
3 @ 12' x 8'/C.S.

This bridge was inspected and found to be in **good** condition. There are no traffic safety features present, but the headwall is over 30' from the through roadway.

The concrete in the barrel is in good condition along with headwalls and wing walls. There are random open vertical cracks up to ½" with leaching in barrels. The adequacy appears to be in good condition, but normal water flow is in span #1 only.

Other spans are blocked by saplings and some sediment build-up, up to 3' deep in barrel #3.

The median has been removed and a barrier wall added along with three traffic lanes both east and west bound. There was no scour detected at time of inspection. There is moderate drift at inlet.

Wayne Hunter

PRODUCED PURSUANT TO
PUBLIC RECORDS REQUEST
This document is covered by 23 USC §409
And its production pursuant to a public
document records request does not
waive the provisions of §409

Stream Profile Date 2/26/2010

Bridge Location No. 95 I40 4.21

County Route Logmile

Elevations:

Benchmark Location: TOP OF HEADWALL

Assumed elevation 100 FT

Station	Elevation in: 2006
A1 0+00	89
0+ 12	89.5
0+ 25	90.5
A2 0+ 38	90.7

Station	Elevation in: 2006
A1 0+00	90
0+ 12	89.4
0+ 25	90.8
A2 0+ 38	91.8

PRODUCED PURSUANT TO
PUBLIC RECORDS REQUEST
This document is covered by 23 USC §409
And its production pursuant to a public
document records request does not
waive the provisions of §409

Top of Deck Span No. 1

Date 2/26/2010

Bridge Location No. 95 (County) I40 (Route) 4.21 (Log Mile)

DECK	NV	4" FILL ASPHALT GOOD
CURBS	NV	

PRODUCED PURSUANT TO
PUBLIC RECORDS REQUEST
This document is covered by 23 USC §409
And its production pursuant to a public
document records request does not
waive the provisions of §409

Top of Deck Span No. 2

Date 2/26/2010

Bridge Location No. 95 (County) I40 (Route) 4.21 (Log Mile)

DECK	NV	4" FILL ASPHALT GOOD
CURBS	NV	

PRODUCED PURSUANT TO
PUBLIC RECORDS REQUEST
This document is covered by 23 USC §409
And its production pursuant to a public
document records request does not
waive the provisions of §409

Top of Deck Span No. 3

Date 2/26/2010

Bridge Location No. 95 (County) I40 (Route) 4.21 (Log Mile)

DECK	NV	4" FILL ASPHALT GOOD
CURBS	NV	

PRODUCED PURSUANT TO
PUBLIC RECORDS REQUEST
This document is covered by 23 USC §409
And its production pursuant to a public
document records request does not
waive the provisions of §409

Bottom of Slab Span No. 1

Date 2/26/2010

Bridge Location No. 95 (County) I40 (Route) 4.21 (Log Mile)

DECK		GOOD	RANDOM LONGITUDINAL HAIR CRACKS WITH EFFLOR.
			RANDOM BREAKOUTS W/REBAR UP TO 1" DEEP

PRODUCED PURSUANT TO
PUBLIC RECORDS REQUEST
This document is covered by 23 USC §409
And its production pursuant to a public
document records request does not
waive the provisions of §409

Bottom of Slab Span No. 2

Date 2/26/2010

Bridge Location No. 95 (County) I40 (Route) 4.21 (Log Mile)

DECK	GOOD	1/2" DEEP SPALLS 4" X 6"

PRODUCED PURSUANT TO
PUBLIC RECORDS REQUEST
This document is covered by 23 USC §409
And its production pursuant to a public
document records request does not
waive the provisions of §409

Bottom of Slab Span No. 3

Date 2/26/2010

Bridge Location No. 95 (County) I40 (Route) 4.21 (Log Mile)

DECK	GOOD	

PRODUCED PURSUANT TO
PUBLIC RECORDS REQUEST
This document is covered by 23 USC §409
And its production pursuant to a public
document records request does not
waive the provisions of §409

HEADWALL

Date 2/26/2010

Bridge Location No. 95 (County) I40 (Route) 4.21 (Log Mile)

INLET

OUTLET

INLET	GOOD	
OUTLET	GOOD	

PRODUCED PURSUANT TO
PUBLIC RECORDS REQUEST
This document is covered by 23 USC §409
And its production pursuant to a public
document records request does not
waive the provisions of §409

Abutment No. 1

Date 2/26/2010

Bridge Location No. 95 (County) I40 (Route) 4.21 (Log Mile)

WALL	GOOD	
WINGS	GOOD	
FOOTINGS	NV	

PRODUCED PURSUANT TO
PUBLIC RECORDS REQUEST
This document is covered by 23 USC §409
And its production pursuant to a public
document records request does not
waive the provisions of §409

PIER WALL # 1

Date 2/26/2010

Bridge Location No. 95 (County) I40 (Route) 4.21 (Log Mile)

FRONT

BACK

WALL	GOOD	FEW VERTICAL HAIR CRACK WITH LEACHING
FOOTING	GOOD	

PRODUCED PURSUANT TO
PUBLIC RECORDS REQUEST
This document is covered by 23 USC §409
And its production pursuant to a public
document records request does not
waive the provisions of §409

PIER WALL # 2

Date 2/26/2010

Bridge Location No. 95 (County) I40 (Route) 4.21 (Log Mile)

FRONT

BACK

WALL	GOOD	
FOOTING	NV	

PRODUCED PURSUANT TO
PUBLIC RECORDS REQUEST
This document is covered by 23 USC §409
And its production pursuant to a public
document records request does not
waive the provisions of §409

Abutment No. 2

Date 2/26/2010

Bridge Location No. 95 (County) I40 (Route) 4.21 (Log Mile)

WALL	GOOD	1) BREAKOUT 8"H X UP TO 4"W X UP TO 3" DEEP
WINGS	GOOD	
FOOTINGS	NV	

PRODUCED PURSUANT TO
PUBLIC RECORDS REQUEST
This document is covered by 23 USC §409
And its production pursuant to a public
document records request does not
waive the provisions of §409