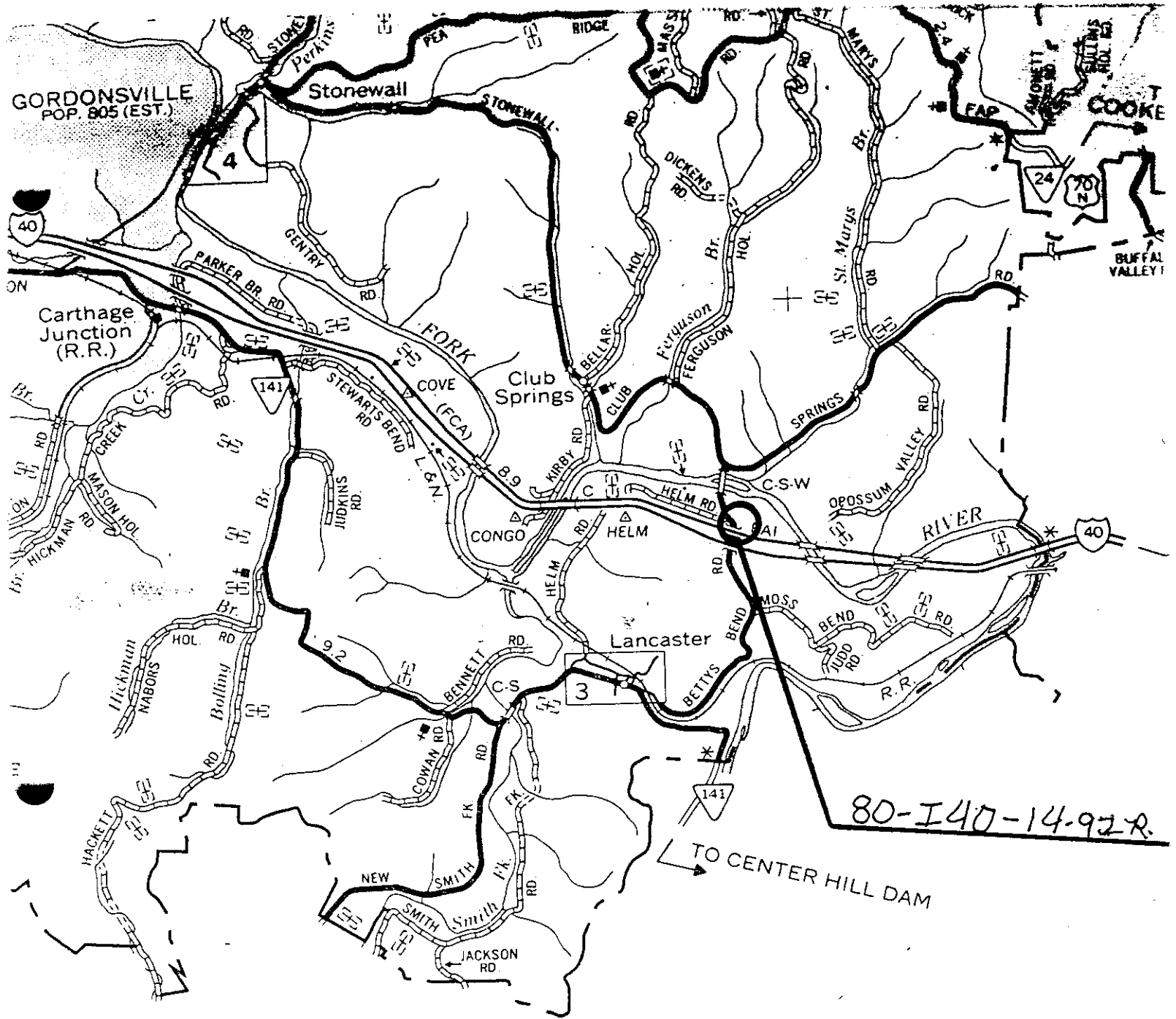




COUNTY

Bridge Maintenance Recommendations

Page No. _____

Page 1 of 1

Bridge Location No.: 80 - I0040 - 14.92 R

Co. Route Log Mile

Crossing: BETTYS BEND RD (A138)*

Bridge Rating: GOOD

Inspection Cycle: 16

Inspection Date: 4/25/2003

Comments:

Bridge Number: 80I00400029

County: Smith

Region: 03

District: 32

Maint.Resp.: 01

Spec.Case: 0

Co.Seq: 01

Maintenance Recommendations:

Maintenance Completed
By / Date

COMPLETION NOTIFICATION: RETURN WITHIN 6 MONTHS OF INSPECTION DATE.

INITIAL AND DATE RECOMMENDATIONS WHEN COMPLETED.

MAINTENANCE ACTIVITIES ARE COMPLETED (DATE) _____ BY _____

MAINTENANCE ACTIVITIES ARE PARTIALLY COMPLETED (DATE) _____ BY _____

MAINTENANCE ACTIVITIES ARE INCOMPLETE, SCHEDULED FOR (DATE) _____

EXPLANATIONS AND COMMENTS:

CONTACT:

MR. RAY MCCLELLAND
D.O.T. BRIDGE INSPECTION
6601 CENTENNIAL BLVD.
NASHVILLE, TN 37243

MR. DON GREER
D.O.T. BRIDGE INSPECTION
6601 CENTENNIAL BLVD.
NASHVILLE, TN 37243

Page No. _____

Page 1 of 1

Bridge Location No.: 80 - I0040 - 14.92 R

Bridge Number: 80I00400029

Co.	Route	Log Mile
-----	-------	----------

County: Smith

Crossing: BETTYS BEND RD (A138)*

Region: 03

Bridge Rating: GOOD

District: 32

Inspection Cycle: 15

Maint.Resp.: 01

Inspection Date: 6/12/01

Spec.Case: 0

Co.Seq: 01

Comments:

Maintenance Recommendations:

Maintenance Completed
By / Date

This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There is a small tab at the top left corner, suggesting it's part of a binder or folder. The paper appears slightly aged or off-white.

COMPLETION NOTIFICATION: RETURN WITHIN 6 MONTHS OF INSPECTION DATE.

INITIAL AND DATE RECOMMENDATIONS WHEN COMPLETED.

MAINTENANCE ACTIVITIES ARE COMPLETED (DATE) _____ BY _____

MAINTENANCE ACTIVITIES ARE PARTIALLY COMPLETED (DATE) _____ BY _____

MAINTENANCE ACTIVITIES ARE INCOMPLETE, SCHEDULED FOR (DATE) _____

EXPLANATIONS AND COMMENTS:

CONTACT:

MR. RAY MCCLELLAND
D.O.T. BRIDGE INSPECTION
6601 CENTENNIAL BLVD.
NASHVILLE, TN 37243

MR. DON GREER

D.O.T. BRIDGE INSPECTION
6601 CENTENNIAL BLVD.
NASHVILLE, TN 37243

BRIDGE MAINTENANCE RECOMMENDATIONS

BRIDGE SEQ. NO. : 80I00400029

BRIDGE NO. : 80 - I0040 - 1492 - R
OVER : BETTYS BEND RD (A138)*

DATE : 06/16/99 BRIDGE RATING : GOOD COUNTY : Smith
CO. SEQ. : 01 INSPECTION CYCLE : 14 MAINT DIST : 32
SPEC. CASE : 1 INSPECTION DATE : 06/16/99 REGION : 03

007 - FACILITY CARRIED BY STRUCT : I40
021 - MAINTENANCE RESPONSIBILITY : 01
022 - OWNER : 01
042 - TYPE OF STRUCTURE : 11
043 - STRUCTURE TYPE, MAIN : 505
044 - STRUCTURE TYPE, APPROACH : 000
045 - SPANS, MAIN UNIT : 001
046 - SPANS, APPROACH : 0000
049 - STRUCTURE LENGTH : 000076
032 - APPROACH ROADWAY WIDTH : 038
034 - SKEW : 87
051 - BRDG RDWY WID, CRB-TO-CRB : 0400
052 - DECK WIDTH, OUT-TO-OUT : 0466
500 - HWY OF THE INVENTORY ROUTE : 01

: MAINTENANCE & REPAIR RECOMMENDATIONS :

: MAINTENANCE COMPLETED :

1 LEVEL APPROACH NO. 0002__

1 BY ____ DATE ____

: COMMENTS FOR BRIDGE SEQ. NO. : 80I00400029 :

REPAIR COLLISION DAMAGE LEFT SIDE 'A' END.

COMPLETION NOTIFICATION : RETURN WITHIN 6 MONTHS OF INSPECTION DATE

MAINTENANCE ACTIVITIES ARE

--- COMPLETED (DATE) -----

--- PARTIALLY COMPLETE (DATE) -----

--- INCOMPLETE SCHEDULED FOR (DATE) -----

EXPLANATIONS AND COMMENTS:

SMITH COUNTY INTERSTATE & STATE ROUTES

VERTICAL CLEARANCES LESS THAN 14'- 6"

JUNE 21, 2000

BRIDGE NUMBER	AT	MEASURED HEIGHT	POSTED HEIGHT	POSTING RECOMENDED HEIGHT
80-SR264-5.55	I-40	14'-5"	NONE	14'-3"
80-A138-0.64	I-40	14'-4"	NONE	14'-2"



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

Bridge Condition Coding Form

Revised 06/15/2000

Bridge Number: 80I004000291
(Includes Item 5A)

Feature Intersected: BETTYS BEND RD (A138)

County: 80

Route: I0040

Special Case: 0

County Sequence: 01

Log Mile: 14.92

CODE ONLY THOSE VALUES WHICH HAVE CHANGED

ITEM #	DESCRIPTION	VALUE	CONDITION CODING GUIDELINES (Values for Coding Items 58, 59, 60 and 62)
90	INSPECTION DATE	<u>06/12/2001</u> <u>4125103</u>	N NOT APPLICABLE
10	MINIMUM V.C. OVER DECK (ROADWAY + SHOULDERS)	99 FT. 99 IN. _____ FT. _____ IN.	9 EXCELLENT CONDITION
520	MINIMUM V.C. OVER DECK (EXCLUDES SHOULDERS)	99 FT. 99 IN. _____ FT. _____ IN.	8 VERY GOOD CONDITION - NO PROBLEMS NOTED.
36	TRAFFIC SAFETY FEATURES		7 GOOD CONDITION - SOME MINOR PROBLEMS.
	Br. Rail Trans. Appr. Rail Appr. Rail Ends		6 SATISFACTORY CONDITION - MINOR DETERIORATION OF STRUCTURAL ELEMENTS.
	1 1 1 1		5 FAIR CONDITION - ALL PRIMARY STRUCTURAL ELEMENTS ARE SOUND BUT MAY HAVE MINOR SECTION LOSS, CRACKING, SPALLING OR SCOUR.
41	STRC OPEN/CLOSED/POSTED A K P	A	4 POOR CONDITION - ADVANCED SECTION LOSS, DETERIORATION, SPALLING OR SCOUR.
58	DECK	7	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.
59	SUPERSTRUCTURE	7	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.
60	SUBSTRUCTURE	7	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 BACK IN LIGHT SERVICE.
61	CHANL/CHANL PROTECTION	N	0 FAILED CONDITION - OUT OF SERVICE AND BEYOND CORRECTIVE ACTION.
62	CULVERT AND RETAIN WALL	N	
71	WATERWAY ADEQUACY	N	
72	APPROACH RDWY ALIGNMENT (USE VALUES OF 3, 6, OR 8)	8	
521	OVERALL CONDITION (Circle One)		
	GOOD FAIR POOR CRITICAL		
		<u>4125103</u>	
TEAM LEADER SIGNATURE		REVIEW DATE	



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

Underpass Condition Coding Form

Revised 06/15/2000

Bridge Number: 80I004000292
(Includes Item 5A)

Feature Intersected: I40/A138 BETTYS BEND RD.

County: 80
Route: 0A138
Special Case: 0
County Sequence: 01
Log Mile: 0.64

CODE ONLY THOSE VALUES WHICH HAVE CHANGED

ITEM #	DESCRIPTION	VALUE	UNDERPASS SAFETY FEATURES
90	INSPECTION DATE	<u>06/12/2001</u> <u>4/25/03</u>	515 (A) TYPE UNDERPASS BARRIER None Exists but Needed
10	MINIMUM V.C. OVER DECK (ROADWAY + SHOULDERS)	14 FT. 4 IN. ____ FT. ____ IN.	Revised Barrier Type
520	MINIMUM V.C. OVER DECK (EXCLUDES SHOULDERS)	14 FT. 4 IN. ____ FT. ____ IN.	(B) ADEQUACY OF BARRIER OR RAIL 0
47	TOTAL HORIZONTAL UNDERCLEARANCE	28 FT. 10 IN. ____ FT. ____ IN.	(C) ADEQUACY OF TRANSITIONS 0
54	MINIMUM VERTICAL UNDERCLEARANCE (EXCLUDES SHOULDERS) Circle One: (H) R <u>14</u> FT. <u>4</u> IN.		(D) ADEQUACY OF TERMINALS 0
55	MINIMUM LATERAL UNDERCLEARANCE ON RIGHT SIDE Circle One: (H) R <u>3</u> FT. <u>0</u> IN.		554 VERTICAL CLEARANCE LISTED ON HEIGHT POSTING 99 FT. 99 IN.
56	MINIMUM LATERAL UNDERCLEARANCE ON LEFT SIDE <u>0</u> FT. <u>0</u> IN.		____ FT. ____ IN.
521	OVERALL CONDITION (Circle One) <u>GOOD</u> FAIR POOR CRITICAL		HEIGHT POSTED AT BOTH APPROACHES? YES [<u>4</u>] NO [] N/A []

555 COMMENTS _____

Dilbert Wayne Hunter
TEAM LEADER SIGNATURE

4/25/
REVIEW DATE



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

Bridge Condition Coding Form

Revised 06/15/2000

Bridge Number: 80I004000291
(Includes Item 5A)

Feature Intersected: BETTYS BEND RD (A138)

County: 80

Route: 10040

Special Case: 0

County Sequence: 01

Log Mile: 14.92

CODE ONLY THOSE VALUES WHICH HAVE CHANGED

ITEM #	DESCRIPTION	VALUE	CONDITION CODING GUIDELINES (Values for Coding Items 58, 59, 60 and 62)
90	INSPECTION DATE	<u>06/16/1999</u> <u>6/12/01</u>	N NOT APPLICABLE
10	MINIMUM V.C. OVER DECK (ROADWAY + SHOULDERS)	99 FT. 99 IN. ____ FT. ____ IN.	9 EXCELLENT CONDITION
520	MINIMUM V.C. OVER DECK (EXCLUDES SHOULDERS)	99 FT. 99 IN. ____ FT. ____ IN.	8 VERY GOOD CONDITION - NO PROBLEMS NOTED.
36	TRAFFIC SAFETY FEATURES		7 GOOD CONDITION - SOME MINOR PROBLEMS.
	Br. Rail Trans. Appr. Rail Appr. Rail Ends		6 SATISFACTORY CONDITION - MINOR DETERIORATION OF STRUCTURAL ELEMENTS.
	1 1 1 1		5 FAIR CONDITION - ALL PRIMARY STRUCTURAL ELEMENTS ARE SOUND BUT MAY HAVE MINOR SECTION LOSS, CRACKING, SPALLING OR SCOUR.
41	STRC OPEN/CLOSED/POSTED A K P	A	4 POOR CONDITION - ADVANCED SECTION LOSS, DETERIORATION, SPALLING OR SCOUR.
58	DECK	7	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.
59	SUPERSTRUCTURE	7	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.
60	SUBSTRUCTURE	7	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 BACK IN LIGHT SERVICE.
61	CHANL/CHANL PROTECTION	N	0 FAILED CONDITION - OUT OF SERVICE AND BEYOND CORRECTIVE ACTION.
62	CULVERT AND RETAIN WALL	N	
71	WATERWAY ADEQUACY	N	
72	APPROACH RDWY ALIGNMENT (USE VALUES OF 3, 6, OR 8)	8	
521	OVERALL CONDITION (Circle One)		
	GOOD FAIR POOR CRITICAL		
	<u>Gilbert Wayne Hunter</u>	<u>6/12/01</u>	
	TEAM LEADER SIGNATURE	REVIEW DATE	



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

Underpass Condition Coding Form

Revised 06/15/2000

Bridge Number: 80I004000292
(Includes Item 5A)

Feature Intersected: 140/A138 BETTYS BEND RD.

County: 80

Route: 0A138

Special Case: 0

County Sequence: 01

Log Mile: 0.64

CODE ONLY THOSE VALUES WHICH HAVE CHANGED

ITEM #	DESCRIPTION	VALUE	UNDERPASS SAFETY FEATURES
90	INSPECTION DATE	<u>06/16/1999</u> <u>6/1/2101</u>	515 (A) TYPE UNDERPASS BARRIER None Exists but Needed
10	MINIMUM V.C. OVER DECK (ROADWAY + SHOULDERS)	<u>14</u> FT. <u>4</u> IN. ____ FT. ____ IN.	Revised Barrier Type
520	MINIMUM V.C. OVER DECK (EXCLUDES SHOULDERS)	<u>14</u> FT. <u>4</u> IN. ____ FT. ____ IN.	(B) ADEQUACY OF BARRIER OR RAIL <u>0</u>
47	TOTAL HORIZONTAL UNDERCLEARANCE	<u>28</u> FT. <u>10</u> IN. ____ FT. ____ IN.	(C) ADEQUACY OF TRANSITIONS <u>0</u>
54	MINIMUM VERTICAL UNDERCLEARANCE (EXCLUDES SHOULDERS)	<u>14</u> FT. <u>4</u> IN.	(D) ADEQUACY OF TERMINALS <u>0</u>
	Circle One: <u>(H)</u> R		
55	MINIMUM LATERAL UNDERCLEARANCE ON RIGHT SIDE	<u>6</u> FT. <u>0</u> IN.	554 VERTICAL CLEARANCE LISTED ON HEIGHT POSTING
	Circle One: <u>(H)</u> R		<u>99</u> FT. <u>99</u> IN.
56	MINIMUM LATERAL UNDERCLEARANCE ON LEFT SIDE	<u>0</u> FT. <u>0</u> IN.	____ FT. ____ IN.
521	OVERALL CONDITION (Circle One)	<u>GOOD</u> FAIR POOR CRITICAL	HEIGHT POSTED AT BOTH APPROACHES? YES [] NO <u>[X]</u> N/A []

555 COMMENTS

William Wayne Hurt
TEAM LEADER SIGNATURE

6/1/2101
REVIEW DATE



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

Bridge Condition Coding Form

County: 80

Route: 10040

Special Case: 0

County Sequence: 1

Log Mile: 14.92

Bridge Number: 80I004000291
(Includes Item 5A)

Feature Intersected: BETTYS BEND RD (A138)

CODE ONLY THOSE NUMBERS WHICH HAVE CHANGED

ITEM #	DESCRIPTION	VALUE	COMMENTS
90	INSPECTION DATE	5/1/97	RATINGS FOR CODING ITEMS 58, 59, 60 AND 62
		6/16/99	N NOT APPLICABLE
10	MINIMUM V.C. OVER DECK (ROADWAY + SHOULDERS)	99 FT. 99 IN.	9 EXCELLENT CONDITION
520	MINIMUM V.C. OVER DECK (EXCLUDES SHOULDERS)	99 FT. 99 IN.	8 VERY GOOD CONDITION - NO PROBLEMS NOTED.
54	MINIMUM VERTICAL UNDERCLEARANCE [H] 14 FT. 4 IN. (EXCLUDES SHOULDERS)		7 GOOD CONDITION - SOME MINOR PROBLEMS.
	Circle One: H R N		6 SATISFACTORY CONDITION - MINOR DETERIORATION OF STRUCTURAL ELEMENTS.
36	TRAFFIC SAFETY FEATURES		5 FAIR CONDITION - ALL PRIMARY STRUCTURAL ELEMENTS ARE SOUND BUT MAY HAVE MINOR SECTION LOSS, CRACKING, SPALLING OR SCOUR.
	Br. Rail Trans. Appr. Rail Appr. Rail Ends		4 POOR CONDITION - ADVANCED SECTION LOSS, DETERIORATION, SPALLING OR SCOUR.
	1 1 1 1		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.
41	STRC OPEN/CLOSED/POSTED	A	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.
	A K P		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 BACK IN LIGHT SERVICE.
58	DECK	7	0 FAILED CONDITION - OUT OF SERVICE AND BEYOND CORRECTIVE ACTION.
59	SUPERSTRUCTURE	7	
60	SUBSTRUCTURE	7	
61	CHANL/CHANL PROTECTION	N	
62	CULVERT AND RETAIN WALL	N	
72	APPROACH RDWY ALIGNMENT (USE VALUES OF 3, 6, OR 8)	8	
	OVERALL CONDITION (Circle One)		
	GOOD FAIR POOR CRITICAL		
	SIGNATURE	DATE	
	Libert Wayne Hester	6/16/99	



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

Underpass Condition Coding Form

County: 80

Route: 0A138

Special Case: 0

County Sequence: 1

Log Mile: 0.64

Bridge Number: 801004000292
(Includes Item 5A)

Feature Intersected: 140/A138 BETTYS BEND RD.

CODE ONLY THOSE NUMBERS WHICH HAVE CHANGED

ITEM #	DESCRIPTION	VALUE	UNDERPASS SAFETY FEATURES
90	INSPECTION DATE	5/1/97 <u>6/16/99</u>	(A) TYPE UNDERPASS BARRIER None Exists but Needed
10	MINIMUM V.C. OVER DECK (ROADWAY + SHOULDERS)	14 FT. 4 IN.	Revised Barrier Type
520	MINIMUM V.C. OVER DECK (EXCLUDES SHOULDERS)	14 FT. 4 IN.	
47	TOTAL HORIZONTAL UNDERCLEARANCE	28 FT. 10 IN.	(B) ADEQUACY OF BARRIER OR RAIL 0
55	MINIMUM LATERAL UNDERCLEARANCE ON RIGHT SIDE	H 6 FT. 6 IN.	(C) ADEQUACY OF TRANSITIONS 0
	Circle One: H R N	FT. IN.	(D) ADEQUACY OF TERMINALS 0
56	MINIMUM LATERAL UNDERCLEARANCE ON LEFT SIDE	0 FT. 0 IN.	VERTICAL CLEARANCE LISTED ON HEIGHT POSTING SIGNS
		FT. IN.	99 FT. 99 IN.
		FT. IN.	FT. IN.

OVERALL CONDITION (Circle One)

GOOD FAIR POOR CRITICAL

HEIGHT POSTED AT BOTH APPROACHES? YES [] NO [] N/A [X]

NOTE: DESCRIBE ANY PROBLEMS ON BRIDGES THAT THE STATE DOES NOT INSPECT (SUCH AS RAILROAD OR PRIVATE BRIDGES) THAT WOULD AFFECT THE ROADWAY SUCH AS LOOSE MEMBERS, SEVERELY SPALLED OR CRACKED CONCRETE, EXCESSIVE SECTION LOSS ON STEEL, EXCESSIVE TIMBER DECAY, ETC. ALSO, DESCRIBE ANY UNSAFE ITEMS.

COMMENTS

Silvia Wayne Hunter

SIGNATURE

6/16/99

DATE

TENNESSEE BRIDGE INSPECTION PROGRAM

SUMMARY OF EVALUATION

REV. 03-05-2003

BRIDGE ID NO: 80I00400029

LOCATION NO: 80 - I0040 - 14.94 R

(6A) CROSSING: BETTYS BEND RD (A138)

(505) METHOD OF ANALYSIS: LOAD FACTOR
METHOD

(548) RATING BASED ON: AASHTOWARE BRIDGE
RATING (3" OF ASPHALT)

LOAD RATINGS IN TONS

INVENTORY (503) H 20	(518B) HS 36
OPERATING (504) H 63	(519) HS 84

(549) EVALUATOR: DCD

(522) EVAL. DATE: 6/2/2017

LAST UPDATED BY: DOMM

(29) ADT: 39,420 **(30) ADT YR:** 2017

(100) STRAHNET ROUTE: YES

(19) DETOUR LENGTH: 2 **KM**

(520) VC OVER RDWY: 99.99 **METERS**

CONDITION RATINGS

(58) DECK RATING: 7

(59) SUPERSTRUCTURE RATING: 7

(60) SUBSTRUCTURE RATING: 7

(61) CHANNEL PROTECTION: N

(62) CULVERT RATING: N

(113A) NBIS SCOUR CODE: N

(113B) TDOT SCOUR CODE:

OTHER RATING ITEMS

(521) OVERALL CONDITION: G

(513) TEXTURE COAT RATING: G 10

(514) PAINT CONDITION RATING: N

(41) WEIGHT POSTING CODE: A

APPRAISAL RATINGS

(67) STRUCTURAL EVALUATION: 7

(68) DECK GEOMETRY: 7

(69) UNDER CLEARANCE: 4

(70) BRIDGE POSTING: 5

(71) WATERWAY ADEQUACY: N

(72) APPROACH RDWY ALIGNMENT: 8

(36) TRAFFIC SAFETY

FEATURES: 1 0 0 N

(525) REPAIR LIST NO: N

CODE VALUES

N - NOT APPLICABLE

9 - EXCELLENT CONDITION

8 - VERY GOOD CONDITION

7 - GOOD CONDITION

6 - SATISFACTORY

5 - FAIR CONDITION

4 - POOR CONDITION

3 - SERIOUS CONDITION

2 - CRITICAL CONDITION

1 - FAILURE IS IMMINENT

0 - FAILED CONDITION

COMMENTS

(502) SUFF. RATING:	91.2
(528) STR. DEFICIENT:	NO
(529) FUNC. OBSOLETE:	NO

Bridge Name: I-40 OVER BETTY'S BEND RD

NBI Structure ID: 80I00400029

Bridge ID: 80I00400029

Analyzed By: bridgeware

Analyze Date: Wednesday, February 06, 2019 15:53:56

Analysis Engine: AASHTO LFR Engine Version 6.8.1.3001

Analysis Preference Setting: None

Report By: bridgeware

Report Date: Wednesday, February 06, 2019 15:55:10

Structure Definition Name: GSS

Member Name: G2

Member Alternative Name: INT

Load Factor Rating Summary

			Girder Summary					
Live Load		Rating		Capacity	Span	Location		
		Factor	Controls	(Ton)		(ft)	Percent	Impact Lane
H 15-44	Inventory	2.468	PS Tensile Stress - Concrete	37.02	1	37.25	50.0	As Requested As Requested
H 15-44	Operating	4.253	Design Flexure - Concrete	63.79	1	37.25	50.0	As Requested As Requested
HS 20-44	Inventory	1.360	PS Tensile Stress - Concrete	48.95	1	37.25	50.0	As Requested As Requested
HS 20-44	Operating	2.343	Design Flexure - Concrete	84.33	1	37.25	50.0	As Requested As Requested
Type 3S2	Inventory	1.672	PS Tensile Stress - Concrete	60.18	1	37.25	50.0	As Requested As Requested
Type 3S2	Operating	2.880	Design Flexure - Concrete	103.68	1	37.25	50.0	As Requested As Requested
	Inventory	1.097		90.47	1	37.25	50.0	As Requested As Requested

Annual Permit 1			PS Tensile Stress - Concrete						
Annual Permit 1	Operating	1.889	Design Flexure - Concrete	155.87	1	37.25	50.0	As Requested	As Requested
Annual Permit 2	Inventory	0.836	PS Tensile Stress - Concrete	68.99	1	37.25	50.0	As Requested	As Requested
Annual Permit 2	Operating	1.441	Design Flexure - Concrete	118.86	1	37.25	50.0	As Requested	As Requested
Gravel Truck	Inventory	1.247	PS Tensile Stress - Concrete	46.14	1	37.25	50.0	As Requested	As Requested
Gravel Truck	Operating	2.149	Design Flexure - Concrete	79.50	1	37.25	50.0	As Requested	As Requested
Overweight Permit	Inventory	0.818	PS Tensile Stress - Concrete	104.24	1	37.25	50.0	As Requested	As Requested
Overweight Permit	Operating	1.409	Design Flexure - Concrete	179.61	1	37.25	50.0	As Requested	As Requested
EV2	Operating	2.790	Design Flexure - Concrete	80.21	1	37.25	50.0	As Requested	As Requested
EV3	Operating	1.796	Design Flexure - Concrete	77.24	1	37.25	50.0	As Requested	As Requested
SU6 LFR	Operating	2.308	Design Flexure - Concrete	80.20	1	37.25	50.0	As Requested	As Requested
SU7 LFR	Operating	2.110	Design Flexure - Concrete	81.76	1	37.25	50.0	As Requested	As Requested

Note:

"N/A" indicates not applicable

***" indicates not available

BARS INPUT FILE DATA REPORT
=====

- General Data -

FILE NAME: 80- 122.DAT REGION: 3
ROUTE: I0040
LOGMILE: 1492 SYSTEM BRIDGE?: YES
LANE (R/L): R
CROSSING: BETTYS BEND ROAD

LEFT AND RIGHT LANE

- Specific Data -

STD. OVERLOAD BRIDGE?: YES TIMBER SUBSTRUCTURE?: NO
STRUCTURE TYPE - I43: 505 ASPHALT DEPTH ON DECK: 4.
LAST REVISION DATE: 10/29/97 TYPE OF RATING ANALYSIS: LF
OVERALL CONDITION: G TOTAL NUMBER OF SPANS: 1
IS BRIDGE POSTED?: NO MAXIMUM SPAN LENGTH - I48: 75
YEAR BRIDGE WAS BUILT: 1960

DISTRIBUTION FACTOR FOR SIDE BY SIDE
PRESTRESSED BOX BEAMS OR PCCS BRIDGES

A.R.M.

DATE: 10/29/97

INPUT DATA

(1) Enter your K value....: 1.000
See table ----->

K Value Table

Beam Type -----	K -----
Non-void rectangular.....	0.7
Rectangular with Circular voids.....	0.8
Rectangular with Square voids.....	1.0
Precast Channel beams.....	2.2

(2) Enter the overall bridge width in feet.....: 40.000
 (3) Enter the span length in feet.....: 75.000
 (4) Enter the number of lanes on the bridge.....: 2.000
 (5) Enter the width of the PCBB or PCCS beam in feet.....: 4.000
 (6) If the value of C (given below) is > 5 then enter 1.000
 else enter 0.000: 1.000

OUTPUT RESULTS

C Value.....= 0.533 DISTRIBUTION FACTOR..= 0.842
 D Value.....= 4.750

BARS-PC R5.5-MOD 3.0

REC.NO.	01	102997A. MCNABB	RECORD	H15 HS20	PCBB	61	77	0	0	40	0	0	1	*LF+	100
	02ARM122A. MCNABB														100
	05ARM122L.M.14423	80 I-40													200
	06ARM122 I-40 OVER BETTYS BEND ROAD - WITH 4.0 INCHES OF ASPHALT OVERLAY														300
	08ARM122G01 1	75 0 0													400
	10ARM122G01 1	W 285.													500
	11ARM122G01 1.1	75 0 001													600
	15ARM122G01 01	35.539.0018.3	4200480												700
	15ARM122G01 01														800

THE FOLLOWING STRUCTURES WERE SELECTED

ARM122

ID	NO.	NO.	LENGTH	LEFT	RIGHT	CODE	DIST.	DIST.	CODE	FY	CODE	FY
600--11	G 1	1	1	75.000FT.	1	0	.000FT.	.000FT.	0.	0.		0.

* SECTION PROPERTIES (PRESTRESSED CONCRETE) - GIRDERS, STRINGERS, FLOOR BEAMS *

MEMBER	NAME	ADP	DEPTH	WIDTH	DIST.	CODE	DEPTH	TEFL	TEFL	TEFL	WEET	BEIT	BEIT	BEFL	ASI	DI
700--15	G 1	1	0	35.5	39.00	18.3	42.00	48.0	.0	.00	48.00	.00	.0	.0	1 A	2906.00 1.75
800--15	G 1	1	0	.0	.00	.0	.00	.0	.0	.00	.00	.00	.0	.0	2 A	906.00 3.25

SUMMARY OF RATING CALCULATIONS-----STRUCTURE MEMBER G 1 BARS-PC RELEASE 5.5
INVENTORY AND/OR OPERATING ANALYSIS

INPUT CODING --
DATE 10/29/97
BY A. MCNABB
STRUCTURE L.M.1442
D/P STR. I.D.-- ARM-122
INVENTORY
LIVE LOAD RATING OPERATING
H15 H 31.56 HS20 HS 38.53

STRUCTURE DESCRIPTION -- LOCATION -- MICROFILM REEL NUMBERS --
IDENTIFICATION L.M.1442 DISTRICT 3 DESIGN PLANS
TYPE PCBB COUNTY 80 COMPUTATIONS
YEAR OF CONSTR. 1961 CONSTR. RTE. I-40 CORRESPONDENCE
LENGTH 77.00 FEET
ROADWAY WIDTH 40.00 FEET
NUMBER OF SPANS 1 0-
KEY RTE.
MARKED RTE.

ANALYST REMARKS --

I-40 OVER BETTYS BEND ROAD - WITH 4.0 INCHES OF ASPHALT OVERLAY

INVENTORY RATING SUMMARY -- OPERATING RATING SUMMARY --
MEMBER ID. G 1 MEMBER ID. G 1
SPAN 1 SPAN 1
CRITICAL C.P. DIST. 37.5 FEET CRITICAL C.P. DIST. 37.5 FEET
LIVE LOAD DESIGNATION H15 LIVE LOAD DESIGNATION HS20
MOMENT MOMENT
(FT. KIPS) (FT. KIPS)
MEMBER CAPACITY 1330.1 MEMBER CAPACITY 1760.8
DL EFFECT 676.1 DL EFFECT 676.1
CAPACITY FOR (LL+I) 654.0 CAPACITY FOR (LL+I) 1084.7
ACTUAL (LL+I) 310.8 ACTUAL (LL+I) 563.1
INVENTORY RATING H 31.56 OPERATING RATING HS 38.53

*** FINAL SUMMARY OF RATING RESULTS FOR --- STRUCTURE ID. ARM-122 BARS-PC RELEASE 5.5
INVENTORY AND/OR OPERATING ANALYSIS

D/P STR. ID-- ARM-122

STRUCTURE L.M.1442

INPUT CODING--

DATE 10/29/97
BY A. MCNABB

INVENTORY
LIVE LOAD RATING
H15 H 31.6

OPERATING
LIVE LOAD RATING
HS20 HS 38.5

STRUCTURE DESCRIPTION--

IDENTIFICATION L.M.1442
TYPE PCBB
YEAR OF CONSTR. 1961
LENGTH 77.00 FEET
ROADWAY WIDTH 40.00 FEET
NUMBER OF SPANS 1

LOCATION--

DISTRICT 3
COUNTY 80
CONSTR. RTE. I-40
CONSTR. SEC. 0+
CONSTR. STA.
KEY RTE.
MARKED RTE.

MICROFILM REEL NUMBERS--

DESIGN PLANS
COMPUTATIONS
CORRESPONDENCE

ANALYST REMARKS--

I-40 OVER BETTYS BEND ROAD - WITH 4.0 INCHES OF ASPHALT OVERLAY

INVENTORY RATING SUMMARY

MEMBER I.D. G 1
SPAN 1
CRITICAL C.P. DIST. 37.5 FEET
LIVE LOAD DESIGNATION H15

MOMENT
(FOOT-KIPS)
MEMBER CAPACITY 1330.1
DL EFFECT 676.1

CAPACITY FOR (LL+I) 654.0
ACTUAL (LL+I) 310.8

INVENTORY RATING H 31.56

OPERATING RATING SUMMARY

MEMBER I.D. G 1
SPAN 1
CRITICAL C.P. DIST. 37.5 FEET
LIVE LOAD DESIGNATION HS20

MOMENT
(FOOT-KIPS)
MEMBER CAPACITY 1760.8
DL EFFECT 676.1

CAPACITY FOR (LL+I) 1084.7
ACTUAL (LL+I) 563.1

OPERATING RATING HS 38.53

DETAIL DATA FOR FLEXURAL MEMBER

DATE 10/29/97

NO. SPANS = 1
NOT SYMMETRICAL

D/P STRUCTURE I.D. ARM-122
MEMBER I.D.--G01

MATERIAL--PSC

LL DIST. FACT. = .842

SUPERIMPOSED CONCENTRATED DL(S)

DIST. FROM LT SUPPORT****

STIFF SPAN P *

FT. TRANS. LONG. NO. KIPS FT.

75.000

SUPERIMPOSED DISTRIBUTED DL(S)

LENGTH DISTRIBUTED*****

DIST. FROM LT SUPPORT**

SPAN W(LT) W(RT) *

NO. LBS/FT LBS/FT FT.

1 285.0 285.0 .000

VAR CODE

DL DUE TO

MEM. WEIGHT

W(LT) W(RT)

LBS/FT LBS/FT

676.6 676.6

SEC.NO.

LT RT

P B

01 01

LENGTH

75.000

01 01

FT.

75.000

01 01

NO.

1

75.000

1

CHECK POINTS RATED--

SPAN DIS FRM FUNC SPAN DIS FRM FUNC

NO. LT SEPT M VL VR NO. LT SEPT M VL VR

FT.

1 .000 X

1 37.500 X

1 75.000 X

Bridge No.: 80 — 10040 — 1492
Crossing:: BETTYS BEND RD (A138)*
Federal No.: 80I00400029

Date:

April 25, 2003

PIC1



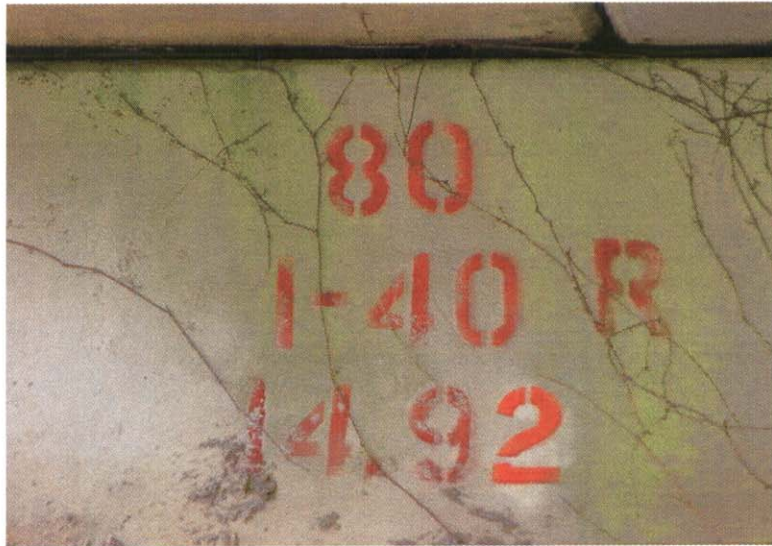
VIEW ACROSS DECK FROM B-APPR

Bridge No.: 80 — I0040 — 1492
Crossing:: BETTYS BEND RD (A138)*
Federal No 80I00400029

Date:

April 25, 2003

PIC2



BRIDGE NO. AT ABUTMENT # 1

PIC3



RIGHT SIDE VIEW

Bridge No.: 80 — I0040 — 1492
Crossing:: BETTYS BEND RD (A138)*
Federal No.: 80I00400029

Date:

April 25, 2003

PIC4



CLEARANCE SIGN (14'2" @ R.S. APPR

Bridge No.: 80 — 10040 — 1492

Crossing:: BETTYS BEND RD (A138)*

Federal No.: 80I00400029

Date:

June 12, 2001

PIC1



VIEW ACROSS DECK

Bridge No.: 80 — I0040 — 1492
Crossing: BETTYS BEND RD (A138)*
Federal No 80I00400029

Date:

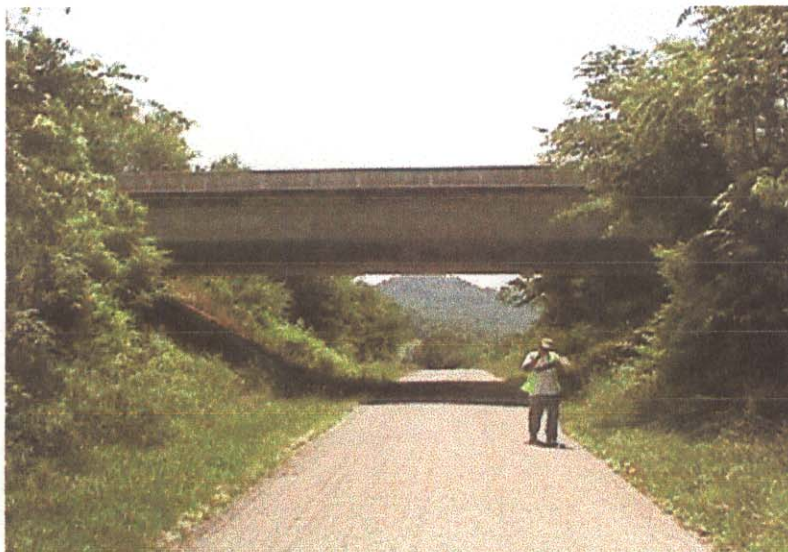
June 12, 2001

PIC2



BRIDGE NO. AT ABUTMENT # 1

PIC3



LEFT SIDE VIEW

Bridge No.: 80 — 10040 — 1492
Crossing:: BETTYS BEND RD (A138)*
Federal No.: 80I00400029

Date:

June 16, 1999

PIC4



DAMAGED (CRACK) APPROACH 'A' LEFT SIDE PARAPET

PIC5



BRIDGE NO. AT ABUTMENT # 1

Bridge No.: 80 — I0040 — 1492

Crossing:: BETTYS BEND RD (A138)*

Federal No.: 80I00400029

Date:

June 16, 1999

PIC1



APPROACH #1

Bridge No.: 80 — I0040 — 1492
Crossing:: BETTYS BEND RD (A138)*
Federal No 80I00400029

Date:

June 16, 1999

PIC2



APPROACH #2

PIC3



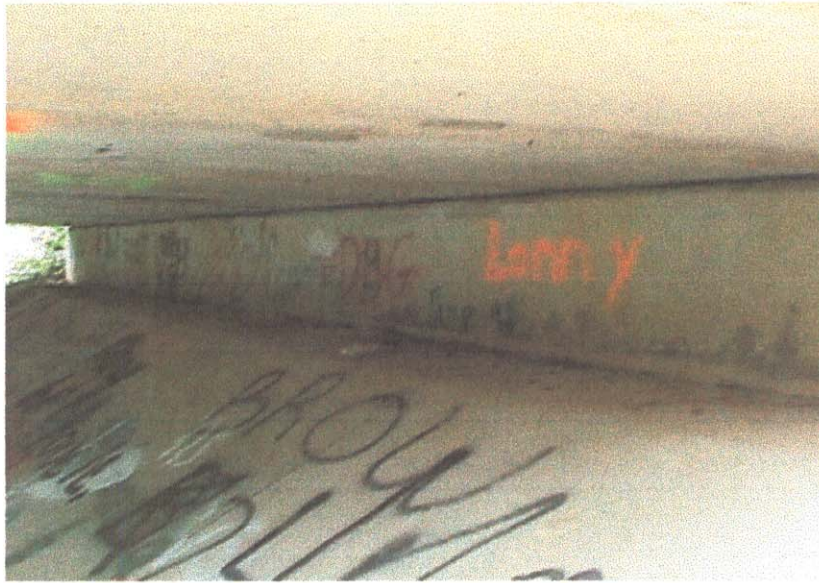
ACROSS TOP OF DECK

Bridge No.: 80 — I0040 — 1492
Crossing:: BETTYS BEND RD (A138)*
Federal No.: 80I00400029

Date:

June 16, 1999

PIC6



ABUTMENT TYPICAL

PIC7



BOTTOM OF DECK

Bridge No.: 80 — 10040 — 1492
Crossing:: BETTYS BEND RD (A138)*
Federal No.: 80I00400029

Date: June 16, 1999

PIC8



RIGHT SIDE ELEVATION

ROUTINE BRIDGE INSPECTION REPORT

Page No. _____

Form BIR 3.0C
(Rev. 9-22-98)
DT-1537

Field Report No. 16 Date 4-25-03
Previous Report No. 15 Date 6/12/2001
Plans: yes

Bridge No. 80I00400029
Eleven Digit No.

Bridge Location No. 80 - I0040 - 14.92 R
Co. Route Log Mile

I 40 over BETTYS BEND RD (A138)*
Road Name Crossing

Indepth Insp. Req'd: NO
(If yes itemize limits under comment)

Structure Type HBB

FRACTURE CRITICAL: NO

FEATURE CHANGES:

Wearing Surface _____ Type _____ Depth _____ (in.)

Bridge Rail _____ Describe changes:

Approach Rail _____

CLEARANCE CHANGES: (If yes make changes below)

Vertical Clearance over deck _____ (ft.-in.)

Vertical Under Clearance _____ (ft.-in.)

Horizontal Under Clearance _____ (*. * ft.)

Deck Width Curb/Curb _____ (*. * ft.)

Deck Width Rail/Rail _____ (*. * ft.)

Sidewalk Width Rt. _____ Lt. _____

INSPECTORS

Hunter

Crutcher

Waller

Thompson

Condition: GOOD (If change describe in comments)

Comments

Approaches

Deck Condition (Item 58)

Superstructure (Item 59)

a. Beams

b. Bearings

c. Diaphragms

Substructure (Item 60)

a. Caps/Bridge Seats

b. Columns/Piles

c. Footings

d. Wing W./Breast W.

Scour/Erosion

Channel (Item 61)

<u>G</u>	
<u>NV</u>	
<u>G</u>	
<u>G</u>	
<u>NA</u>	
<u>G</u>	
<u>NA</u>	
<u>NV</u>	
<u>G</u>	
<u>G</u>	
<u>NA</u>	

UNDERWATER INSPECTION

To Be Performed By: N/A

Date Underwater Insp. _____

BRIDGE is: _____

COMMENTS:

Weight Limit Posted NO

Gross..... Tons

2 Axle..... Tons

3 or more Axles.. Tons

Supervising Bridge Inspector: Gilbert Wayne Hunter BRIDGE RATING: GOOD

SUMMARY
80-I40-14.92 RT
4/25/2003

I40/Betty's Bend Rd.
1 Span/B.B.

This bridge was inspected and found to be in **good** condition. The approaches are good. The vertical clearance is posted for 14' 2" The parapet and approach rail are standard type and in good condition. The parapet on left side 'A' has collision damage and has a 1/2" separation crack. There are no paddleboards.

A.C. wearing surface is good. The bottom deck is not visible. Beams and alignment of beams are good. The bearing devices are in good condition. Sub-structure units are also good.

Gilbert Hunter

ROUTINE BRIDGE INSPECTION REPORT

Page No. _____

Form BIR 3.0C
(Rev. 9-22-98)
DT-1537

Field Report No. 14 Date 6/16/99
Previous Report No. 15 Date 6-12-01
Plans: yes

Bridge No. 80I00400029
Eleven Digit No.

Bridge Location No. 80 - I0040 - 14.92 R
Co. Route Log Mile

I40

over BETTYS BEND RD (A138)*

Indepth Insp. Req'd: No

Road Name

Crossing

(If yes itemize limits under comment)

Structure Type HBB

FRACTURE CRITICAL: No

FEATURE CHANGES:

Wearing Surface _____ Type _____ Depth _____ (in.)

Bridge Rail _____ Describe changes:

Approach Rail _____

CLEARANCE CHANGES: (If yes make changes below)

Vertical Clearance over deck _____ (ft.-in.)

Vertical Under Clearance _____ (ft.-in.)

Horizontal Under Clearance _____ (*. ft.)

Deck Width Curb/Curb _____ (*. ft.)

Deck Width Rail/Rail _____ (*. ft.)

Sidewalk Width Rt. _____ Lt. _____

INSPECTORS

Hunter

Daniel

Waller

Thompson

Condition: GOOD (If change describe in comments)

Comments

Approaches

Deck Condition (Item 58)

Superstructure (Item 59)

a. Beams

b. Bearings

c. Diaphragms

Substructure (Item 60)

a. Caps/Bridge Seats

b. Columns/Piles

c. Footings

d. Wing W./Breast W.

Scour/Erosion

Channel (Item 61)

<u>G</u>	
<u>NV</u>	<u>AC overlay</u>
<u>G</u>	
<u>G</u>	
<u>N/A</u>	
<u>G</u>	
<u>NV</u>	
<u>NV</u>	
<u>G</u>	
<u>G</u>	
<u>NA</u>	

UNDERWATER INSPECTION

To Be Performed By: NA

Date Underwater Insp. _____

BRIDGE is: _____

COMMENTS:

Weight Limit Posted No

Gross..... Tons

2 Axle..... Tons

3 or more Axles.. Tons

Supervising Bridge Inspector:

Dilbert Wayne Hunter

BRIDGE RATING: GOOD

SUMMARY
80-I40-14.92 RT
6-12-01

I40/Betty's Bend Rd.
1 Span/B.B.

This bridge was inspected and found to be in **good** condition. The approaches are good. The parapet and approach rail are standard type and in good condition. The parapet on left side 'A' has collision damage and has a ½" separation crack. There are no paddleboards.

A.C. wearing surface is good. The bottom deck is not visible. Beams and alignment of beams are good. The bearing devices are in good condition. Sub-structure units are also good.

Gilbert Hunter

BRIDGE INSPECTION REPORT

FORM BIR 3.0
Rev. 09/24/98
DT-0069

FIELD REPORT NO. 14 DATE 6/16/99
REVIOUS REPORT NO. 13 DATE 5-7-97
PLANS ---- YES ☒ NO ☐

BRIDGE NO. 80I004000Z9
ELEVEN DIGIT NO.

BRIDGE LOC. NO. 80 - I40 - 14.92 Rt
CO. ROUTE LOG MILE

I40 E.B.L. OVER Bettys Bend Rd.
ROAD NAME FEATURE INTERSECTED

YEAR CONSTRUCTED 1959 COUNTY Smith MAINTENANCE DISTRICT NO. 32
(ESTIMATED OR ACTUAL)

[] [X]
YEAR WIDENED _____
ESTIMATED OR ACTUAL
[] []

YEAR REHABILITATED _____
ESTIMATED OR ACTUAL
[] []

FEATURES

WEARING SURFACE-- CONCRETE [] TIMBER [] ASPHALT ☒ (DEPTH= 2")
FLARED WIDTH ----- YES [] NO ☒
NAVIGATIONAL CONTROL-- YES [] NO ☒
MEDIAN WIDTH ----- OPEN ☒ NONE [] CLOSED []

BRIDGE SKEW 87° LT ☒ RT []

STRUCTURE TYPE HBB NO. SPANS 1
Main Span Main Span

STRUCTURE TYPE - NO. SPANS -
Approach Spans Approach Spans

MAXIMUM SPAN LENGTH 74' TOTAL LENGTH 75.5'

WIDTHS CLEARANCES
DECK OUT-TO-OUT 46.6' MIN. VERTICAL OVER DECK -
ROADWAY CURB/CURB 40' MIN. VERTICAL UNDER CL 14'-4"
SIDEWALK - RT - LT MIN. LATERAL UNDER CL 6.5 RT
*APPROACH ROADWAY 24' - LT
APPR. SHLD. 10' RT 4' LT
*DOES NOT INCLUDE SHOULDER

UNDERWATER INSPECTION

INSPECTION PERFORMED BY:
DOT FIELD TEAM [] DATE _____
CONTRACT DIVERS [] DATE _____
NONE REQUIRED ☒

CHANGE IN STRUCTURAL CONDITION YES [] NO ☒
MAJOR REPAIRS MADE YES [] NO ☒

COMMENTS: _____

INSPECTORS

1. Hunter
2. Daniel
3. Crutcher
4. Waller
5. _____
6. _____
7. _____
8. _____
9. _____

(<25')
NBIS BRIDGE
LENGTH Over 25'
(ft) (in)

FRACTURE CRITICAL
DETAILS: YES [] NO ☒
IF YES, INCLUDE BIR 3.9

BRIDGE RATING ☒ [] [] []
GOOD FAIR POOR CRITICAL

William Wayne Hunter
SUPERVISING BRIDGE INSPECTOR

FORM BIR 3.1
Rev. 09/24/98
DT-0080

BRIDGE LOC. NO. 80 - I40 - 14.92 Rt.
CO. ROUTE L.M.

DATE: 6/16/99

PERFORMANCE EVALUATION

Time of day inspected 9:30 Weather conditions 70° Partly Cloudy

Vehicles observed Tractor Trailer & Passenger Type

LIVE LOAD BEHAVIOR

	<u>YES</u>	<u>NO</u>	<u>COMMENTS</u>
Substructure			
Horiz. & Vert. Defl. - - - []		☒	
Vibration - - - - - []		☒	
Superstructure			
Horiz. & Vert. Defl. - - - []		☒	
Vibration - - - - - []		☒	

APPROACH

	<u>G</u>	<u>F</u>	<u>P</u>	<u>C</u>	
Alignment	☒				
Slab	☒				<u>NA</u>
Joints	☒				<u>NA</u>
Pavement	☒	☒			<u>Settlement at each end</u>
Embankment	☒				
Drains	☒				<u>NA</u>

TRAFFIC SAFETY FEATURES

	<u>G</u>	<u>F</u>	<u>P</u>	<u>C</u>	<u>STANDARD</u>	<u>SUB-STANDARD</u>	
Bridgerailing	☒	☒			☒	☐	<u>Col damage W side at end</u>
Transitions	☒				☒	☐	
Guardrail	☒				☒	☐	
Guardrail Terminal	☒				☒	☐	

SIGNING

	<u>YES</u>	<u>NO</u>	<u>NEEDED</u>	
Paddleboard - - - - - []		☒	☐	WEIGHT LIMIT POSTED
				YES [] NO ☒
Vertical Clearance (< 14') - - - []		☐	☐	
Narrow [] One Lane Bridge [] - []		☐	☐	GROSS _____ TONS
				2 AXLE _____ TONS
				3 OR MORE
				AXLES _____ TONS

Other Signs or Plaques _____

Comments Regarding Any Problems With Signing _____

Other Recommendations _____

FORM BIR 3.2
Rev. 09/24/98
DT-0081

BRIDGE LOC. NO. 80-I40-14.92 Rt.
CO. ROUTE L.M.

DATE: 6/16/99

DECK

COMMENTS

WEARING SURFACE	(G)	F	P	C	AC. over, lat.
DECK - STRUCTURAL	G	F	P	C	NV
CONDITION					
CURBS	G	F	P	C	NA
MEDIAN	G	F	P	C	NA
SIDEWALKS	G	F	P	C	NA
PARAPET	G	(F)	P	C	col damage 1/2" open sep crack Lt. side. A' exc
RAILING	G	F	P	C	NA
PAINT	G	F	P	C	NA
DRAINS	G	F	P	C	NA
LIGHTING STD'S	G	F	P	C	NA
UTILITIES	G	F	P	C	NA
JOINT LEAKAGE	G	F	P	C	NA
EXPANSION JOINTS	G	F	P	C	NA

SUPERSTRUCTURE

COMMENTS

BEARING DEVICES	(G)	F	P	C	
GIRDERS OR BEAMS	(G)	F	P	C	
FLOOR BEAMS	G	F	P	C	NA
STRINGERS	G	F	P	C	NA
DIAPHRAGMS	G	F	P	C	NA
BRACING	G	F	P	C	NA
TRUSSES - GENERAL	G	F	P	C	
- PORTALS	G	F	P	C	
- BRACING	G	F	P	C	
PAINT	G	F	P	C	NA
ALIGNMENT OF MEMBERS	(G)	F	P	C	

TEXTURE COAT

CONDITION RATING	G	F	P	C	
OVERALL APPEARANCE	G	F	P	C	NEEDS SPOT PAINTING? YES [] NO []
STAINING	G	F	P	C	NEEDS REPAINTING? YES [] NO []
SCALING	G	F	P	C	
FADING	G	F	P	C	

COMMENTS: _____

RECOMMENDATIONS: _____

FORM BIR 3.3
Rev. 09/24/98
DT-0082

BRIDGE LOC. NO. 80 - I40 - 14.92 ft.
CO. ROUTE L.M.

DATE: 6/16/99

SUBSTRUCTURE

ABUTMENTS

COMMENTS

CAPS	(G)	F	P	C	
BREASTWALL	G	F	P	C	NA
WINGS	(G)	F	P	C	
BACKWALL	G	F	P	C	NV
PLUMB	(G)	F	P	C	
FOOTING	G	F	P	C	NV
PILES	G	F	P	C	NV
EMBANKMENT	(G)	F	P	C	
BEARING SURFACE	(G)	F	P	C	
BEARINGS	(G)	F	P	C	
SLOPE PAVING	(G)	F	P	C	

PIERS

CAPS	G	F	P	C	
COLUMNS	G	F	P	C	
PLUMB	G	F	P	C	
FOOTINGS	G	F	P	C	
PILES	G	F	P	C	
BEARING SURFACE	G	F	P	C	
BEARINGS	G	F	P	C	
BENTS					

CAPS	G	F	P	C	
COLUMNS	G	F	P	C	
PLUMB	G	F	P	C	
FOOTINGS	G	F	P	C	
PILES	G	F	P	C	
BEARING SURFACE	G	F	P	C	
BEARINGS	G	F	P	C	

SCOUR CONDITION NONE [X]

RECOMMENDATIONS: _____

SUMMARY
80-I40-14.92 RT
6-16-99

I40/Betty's Bend Rd.
1 Span/B.B.

This bridge was inspected and found to be in good condition. The approaches have settled 1" - 2" at the ends of the bridge. The parapet and approach rail are standard type and in good condition. The parapet on left side 'A' has collision damage and has a $\frac{1}{2}$ " separation crack. There are no paddleboards.

A.C. wearing surface is good. The bottom deck, beams, and alignment of beams are good. The bearing devices are in good condition. Sub-structure units are also good.

Gilbert Hunter

FORM BIR 3.0A
Rev. 6-9-92
DT-1443

CURRENT FIELD REPORT NO. 14
PREVIOUS FIELD REPORT NO. 13

DATE 6/16/99
DATE 5-7-97

INSPECTION REPORT FOR UNDERPASS ROUTE

BRIDGE NO. 80I00400029
ELEVEN DIGIT NUMBER

UNDERPASS LOC. NO. 80 - A138 - 0.64
CO. RTE. L.M.

80 - I40 - 14.92^{ft} OVER 80 - A138 - 0.64
CO. RTE. L.M. CO. RTE. L.M.

STRUCTURE NAME (IF NAMED)

COUNTY Smith

YEAR CONSTRUCTED 1959 YEAR WIDENED _____ YEAR REHABILITATED _____
ESTIMATED [] ACTUAL [X]

GEOMETRIC FEATURES UNDER BRIDGE

DIVIDED HIGHWAY - - - - LEFT RDWY [] RIGHT RDWY [] N.A. [X]
TYPE OF WEARING SURFACE - - - - CONCRETE [] ASPHALT [X] GRAVEL []
WIDTH OF APPROACH TRAVELED ROADWAY 13' FT. (DOES NOT INCLUDE SHOULDERS)
WIDTH OF MEDIAN IF DIVIDED HIGHWAY _____ FT.
APPROACH SHOULDER WIDTH 6 FT. (RT.) 0 FT. (LT.)
*HORIZONTAL CLEARANCE UNDER BRIDGE 29' FT. 0 IN.
*DISTANCE BETWEEN PIER PROTECTION GUARDRAIL AND
SUBSTRUCTURE _____ FT. (RT.) _____ FT. (LT.)
*WIDTH OF SIDEWALK UNDER BRIDGE _____ FT. (RT.) _____ FT. (LT.)
*MINIMUM VERTICAL CLEARANCE 14' FT. 4 IN.

*SHOW ON SKETCH

TRAFFIC SAFETY FEATURES FOR UNDERPASS ROUTE

STANDARD SUB-STANDARD

PIER PROTECTION RAILING	G	F	P	C	[]	[]	NON EXIST [X]
OR PARAPET							
APPROACH GUARDRAIL	G	F	P	C	[]	[]	NON EXIST [X]
TRANSITIONS	G	F	P	C	[]	[]	NON EXIST [X]
APPROACH GUARDRAIL	G	F	P	C	[]	[]	NON EXIST [X]
APPROACH GUARDRAIL							
TERMINAL	G	F	P	C	[]	[]	NON EXIST [X]

SIGNING FOR UNDERPASS ROUTE

PADDLEBOARD	YES []	NO [X]	NEEDED []
VERTICAL CLEARANCE			
(< 14'6")	YES []	NO [X]	NEEDED []
NARROW PASSAGE	YES []	NO [X]	NEEDED []
ONE LANE PASSAGE	YES []	NO [X]	NEEDED []
CURVE	YES []	NO [X]	NEEDED []
SPEED LIMIT	YES []	NO [X]	NEEDED []

INSPECTORS

1.	<u>Hunter</u>
2.	<u>Daniel</u>
3.	<u>Crutcher</u>
4.	<u>Waller</u>
5.	_____
6.	_____

FORM BIR 3.0A (CONTINUED)
 Rev. 6-9-92
 DT-1443

UNDERPASS LOC. NO. 80 - A138 - 0.64
 CO. RTE. L.M.

OTHER SIGNS OR PLAQUES _____

COMMENTS REGARDING ANY PROBLEM WITH SIGNING _____

BRIDGE FEATURES

BRIDGE SKEW 87°
 STRUCTURE TYPE HBE NO. SPANS 1
 MAIN SPAN MAIN TYPE
 STRUCTURE TYPE _____ NO. SPANS _____
 APPROACH SPAN APPROACH TYPE
 MAXIMUM SPAN LENGTH 74 FT. TOTAL LENGTH 75.5 FT.
 WIDTH OF BRIDGE OUT-TO-OUT 46.6 FT. (RT. < TO L OF BRIDGE)
 WIDTH OF BRIDGE ALONG SKEW _____ FT. (IF UNABLE TO MEASURE AT RT. > TO L OF BRIDGE)
 NUMBER OF LANES TRACKS ON BRIDGE 2

BRIDGE CONDITION

G

F

P

C

DOES POTENTIAL EXIST FOR ELEMENTS FROM BRIDGE FALLING ON ROADWAY BENEATH? YES [] NO [X]

DOES POTENTIAL EXIST BECAUSE OF DETERIORATED CONDITION FOR FAILURE OF MAJOR MEMBERS? YES [] NO [X]

COMMENT ON ANY CONDITIONS OF BRIDGE THAT WOULD EFFECT ROADWAY BENEATH _____

NOTE: IF UNDERPASS ROUTE IS DIVIDED HIGHWAY, USE TWO (2) OF THESE FORMS, ONE FOR EACH ROADWAY.

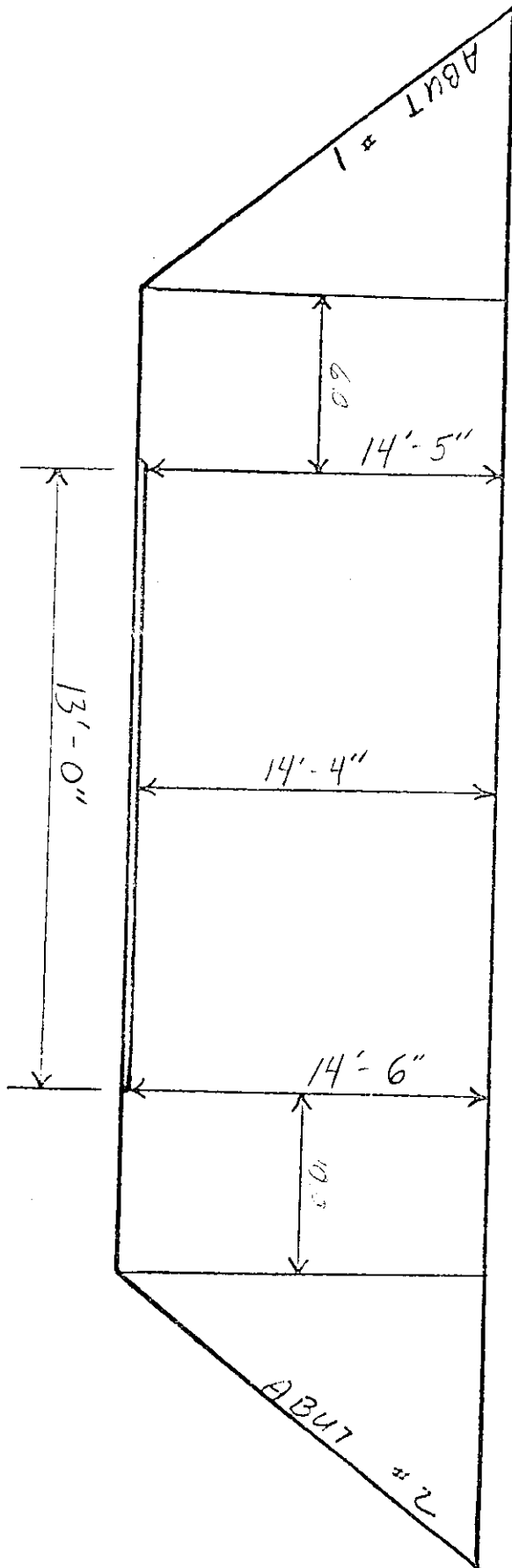
MINIMUM PICTURES REQUIRED

1. ELEVATION VIEW OF BRIDGE ON BOTH SIDES SHOWING UNDERPASS
2. VIEW SHOWING BOTH APPROACHES TO BRIDGE
3. VIEW SHOWING SAFETY FEATURES
4. VIEW SHOWING ANY PROBLEMS

6-16-97MD

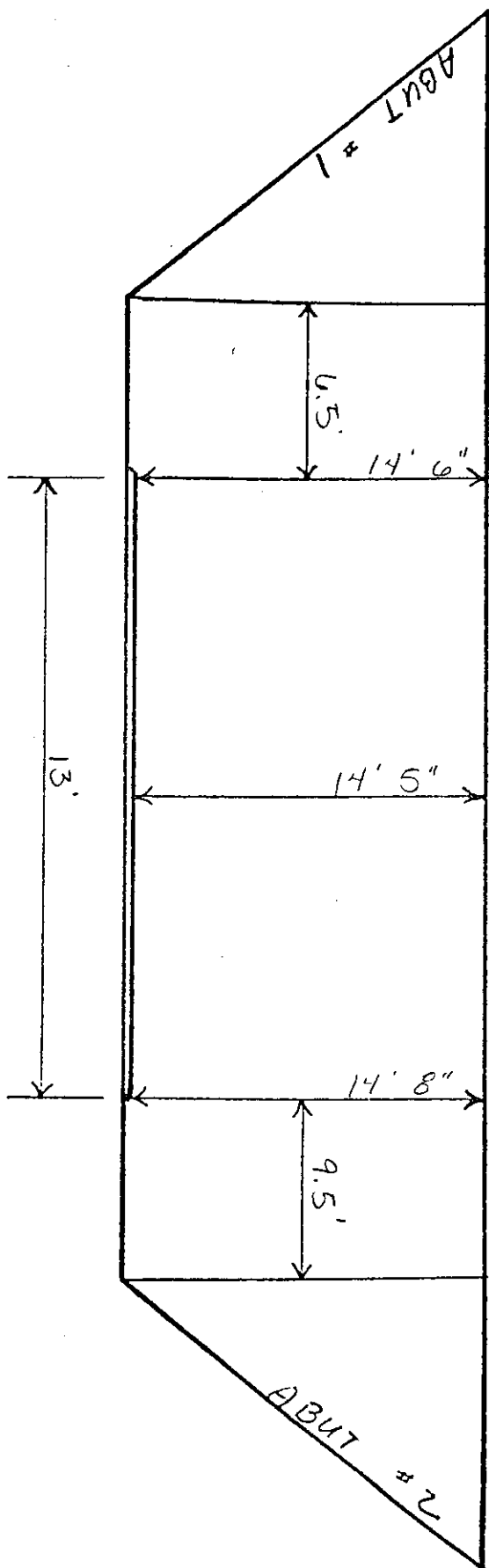
Clearance Sketch

80 - I40 - 14.92 RT. →



80 - A138 - 0.64

MAR 24 1992

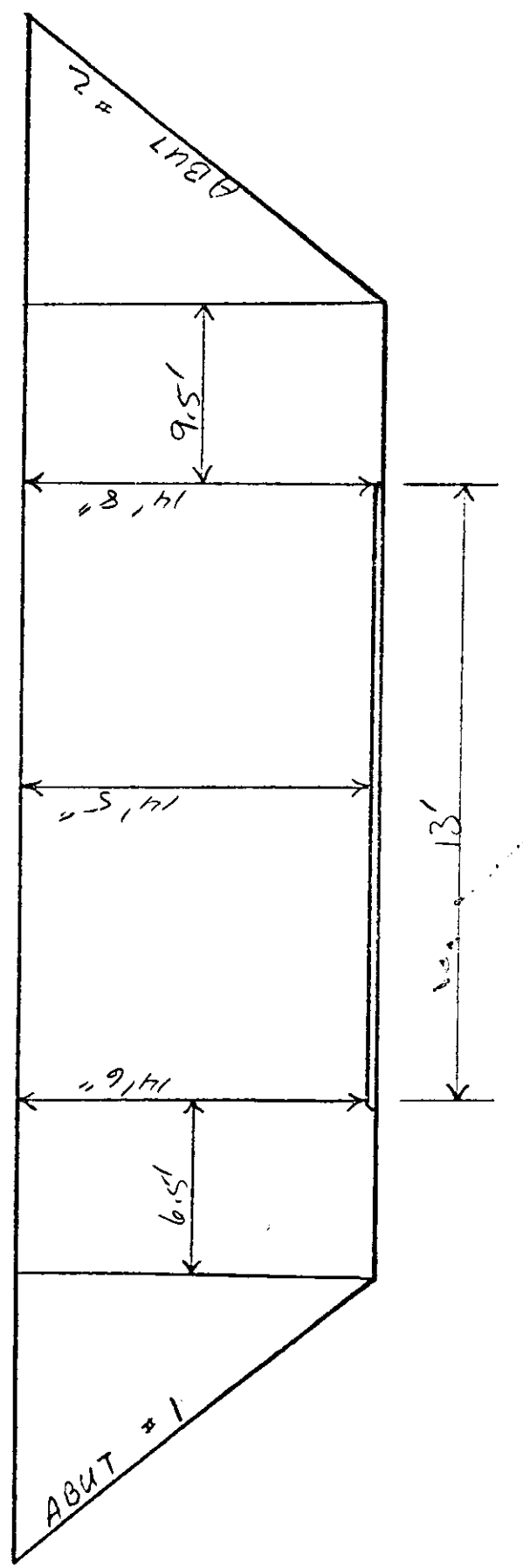


80 - 140 - 14.92 RT. →

80 - 1138 - 0.64

FEB 05 1990

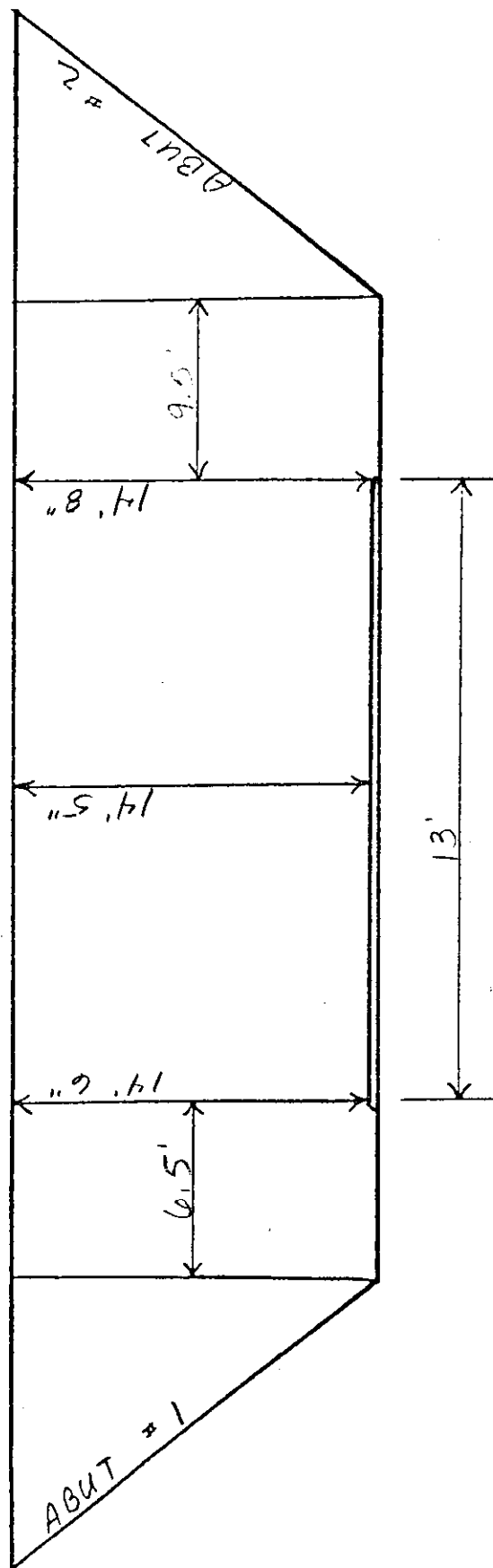
80 - I 40 - 14.92 RT.



80 - A138 - 0.64

JAN 29 1988

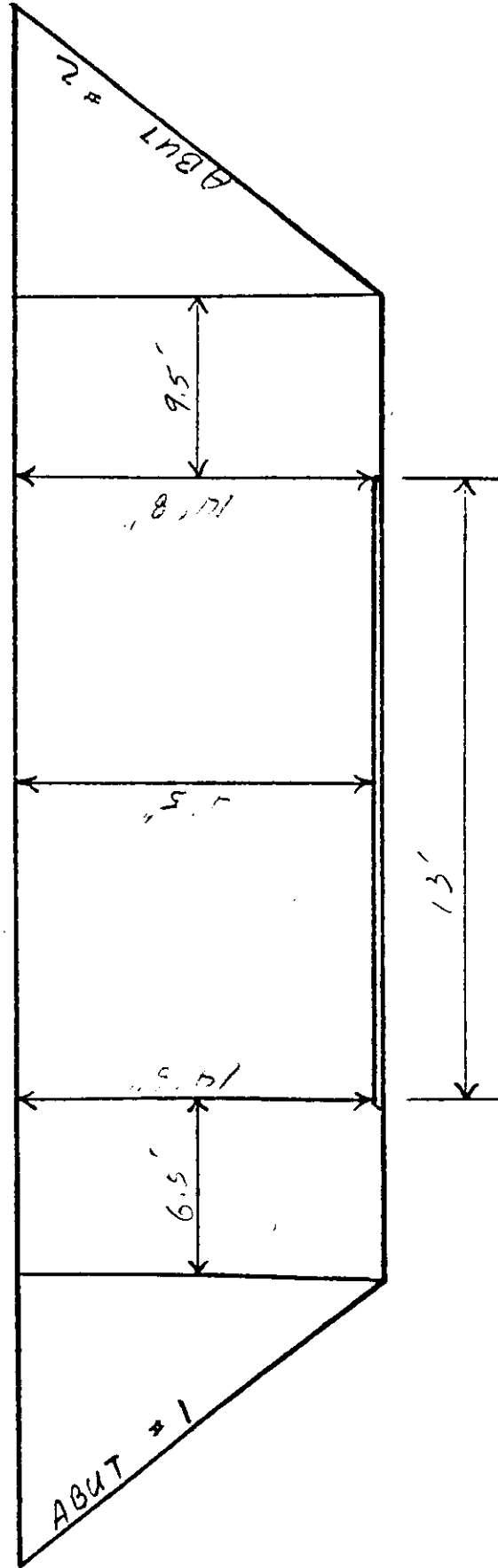
80 - I 40 - 14.92 RTA



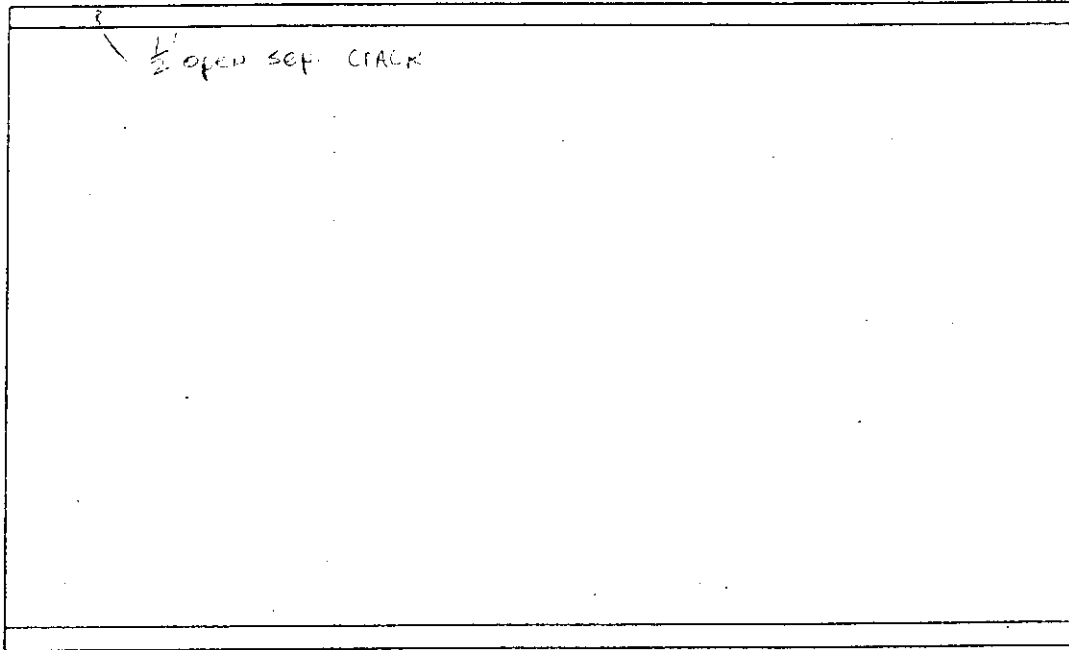
80 - A138 - 0.64

JUL 23 1986

80 - I40 - 14.92 RT. →



80 - A138 - 0.64



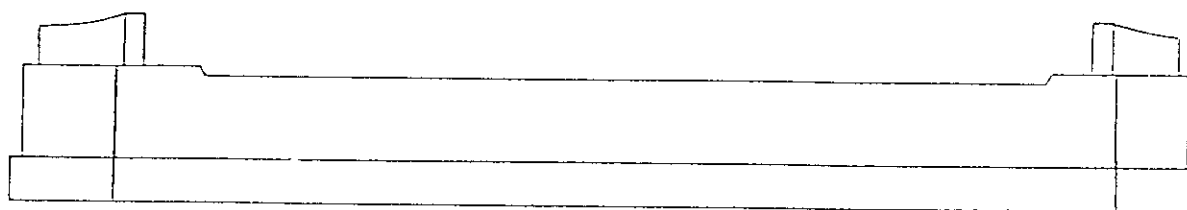
TOP SLAB #

Br. # 80-140-14.92

Deck	G	
Parapet	F	Rel drainage LT side parapet wall 1/2" open sep crack
Drains	NA	
Joints	NA	

6-16-77
7

5

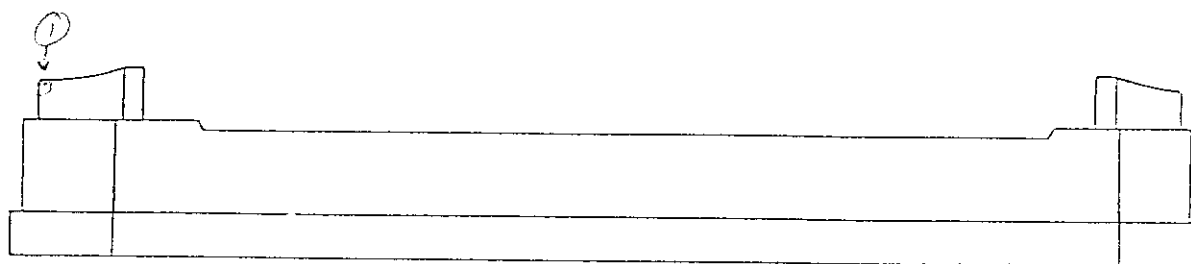


ABUT = 1

$$Br. = 80 - 140 - 14.92 \text{ RT.}$$

BACK	G
WALL	
CAP	G
WINGS	G
Bearings	G

6-16-11
2



ABUT = 2

Br. = 80-140-14.92 RT.

BACK G
wall

CAP G

wings G (1) 1' x 2" BRICK OUT

Bearings G

FOR PLANS SEE:

80I00400030- INFO