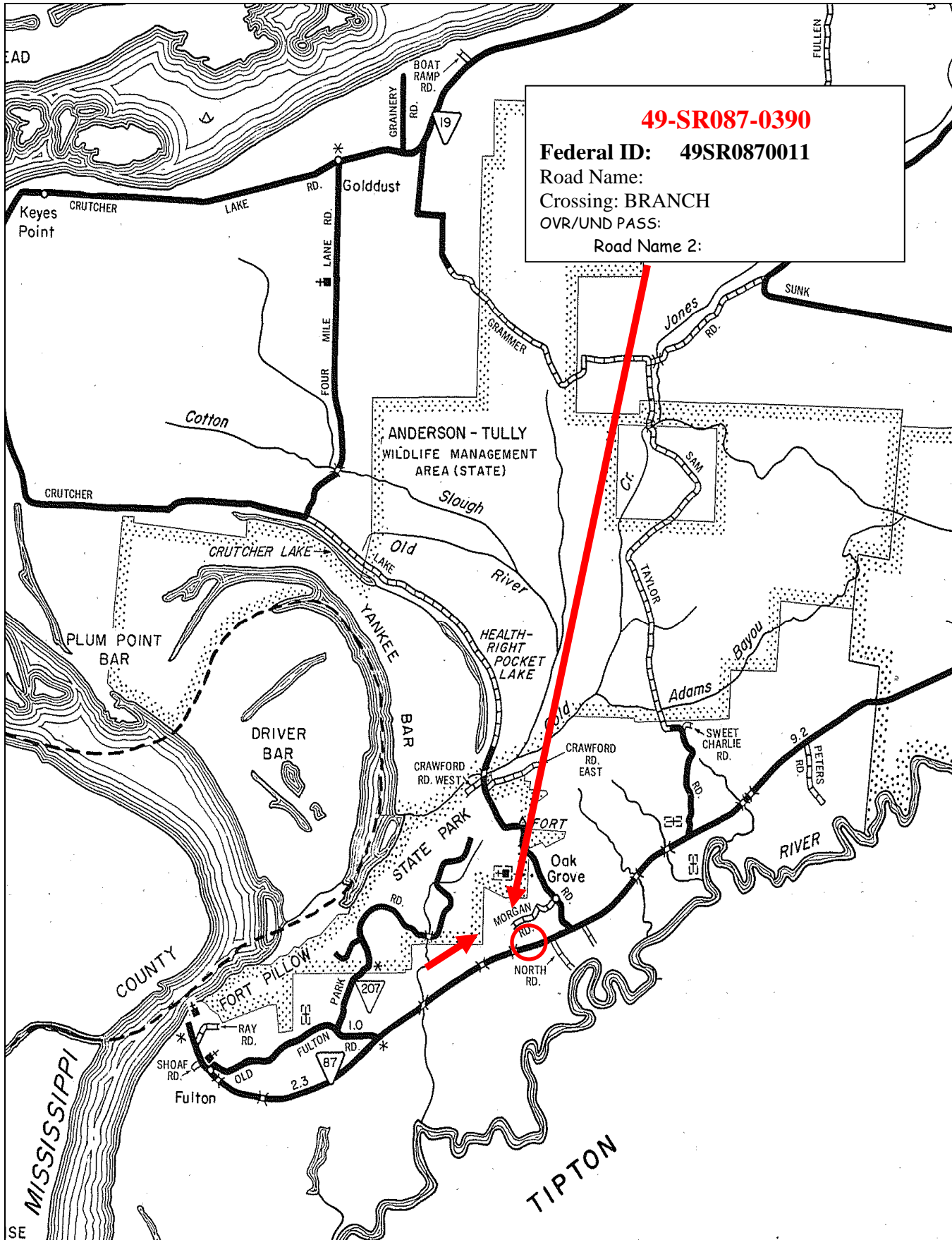


LAUDERDALE COUNTY



BRIDGE MAINTENANCE RECOMMENDATIONS

COUNTY: LAUDERDALE

LOCATION: 49-SR087-03.88-

CO. SEQ.: 1 SPEC. CASE: 0

Tennessee Department
of Transportation

CROSSING: OVERFLOW

FED. BRIDGE NO.: 49SR0870011

MAINT. DIST.: 49

REPAIR LIST NO.: N

DATE ADDED: 05/01/2014

REVISED: 03/07/2018

FACILITY CARRIED:	FAS 87	NUMBER OF MAIN SPANS:	1
HIGHWAY SYSTEM:	05-STP RURAL, STATE	NUMBER OF APPROACH SPANS:	0
BRIDGE WIDTH (CURB TO CURB):	25 FT 3 IN	BRIDGE LENGTH (FT):	29
BRIDGE WIDTH (OUT TO OUT):	28 FT 6 IN	MAXIMUM SPAN LENGTH (FT):	29
APPROACH ROADWAY (W/SHOULDERS):	28 FT 10 IN	SKEW ANGLE (DEGREES):	90
MAINTAINED BY:	STATE HIGHWAY AGENCY		
MAIN SPAN MATERIAL:	STEEL		
MAIN SPAN DESIGN TYPE:	STRINGER/MULTI-BEAM OR GIRDER		
APPROACH SPAN MATERIAL:	OTHER OR NOT APPLICABLE		
APPROACH SPAN DESIGN TYPE:	OTHER OR NOT APPLICABLE		
INSPECTION DATE:	03/07/2018	GENERAL CONDITION:	FAIR
EVALUATION DATE:	04/11/2016	STRUCTURALLY DEFICIENT:	NO
PPRM PIN NUMBER:			
H TRUCK RATING @ INV.:	17 TONS	SUFFICIENCY RATING:	49.5

SUGGESTED ROUTINE MAINTENANCE AND COMMENTS

REPAIR STEEL BEAM " N " IN SPAN NO.1

CUT AND REMOVE VEGETATION FROM CHANNEL

APPROACH GUARDRAIL TERMINALS ARE SUBSTANDARD

APPROACH GUARDRAILS ARE NON-EXISTENT

BRIDGRAILS ARE SUBSTANDARD

GENERAL COMMENTS:

CAPS REPAIRED AT ABUTMENTS #1 & #2



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

Bridge Condition Coding Form

Revised 03/13/2018

Bridge Number:
(Includes Item 5A)

Feature Intersected:

Evaluation Status:

County:

Route:

Special Case:

County Sequence:

Log Mile:

CODE ONLY THOSE VALUES WHICH HAVE CHANGED

ITEM #	DESCRIPTION	VALUE	CONDITION CODING GUIDELINES
90	LAST INSPECTION DATE	<input type="text" value="03/07/2018"/>	(Values for Coding Items 58, 59, 60 and 62)
	EARLIEST DATE OF NEXT REGULAR INSPECTION	<input type="text" value="01/06/2020"/>	
		<input type="text" value="/ /"/>	
10	MINIMUM V.C. OVER DECK (ROADWAY + SHOULDERS)	99 FT. 99 IN.	N NOT APPLICABLE
520	MINIMUM V.C. OVER DECK (EXCLUDES SHOULDERS)	99 FT. 99 IN.	9 EXCELLENT CONDITION
36	TRAFFIC SAFETY FEATURES		8 VERY GOOD CONDITION - NO PROBLEMS NOTED.
	Br. Rail Trans. Appr. Rail Terminal SPEED LIMIT	0 0 0 0 55	7 GOOD CONDITION - SOME MINOR PROBLEMS.
41	STRC OPEN/CLOSED/POSTED	P	6 SATISFACTORY CONDITION - MINOR DETERIORATION OF STRUCTURAL ELEMENTS.
	A K P		5 FAIR CONDITION - ALL PRIMARY STRUCTURAL ELEMENTS ARE SOUND BUT MAY HAVE MINOR SECTION LOSS, CRACKING, SPALLING OR SCOUR.
58	DECK	7	4 POOR CONDITION - ADVANCED SECTION LOSS, DETERIORATION, SPALLING OR SCOUR.
59	SUPERSTRUCTURE	5	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.
60	SUBSTRUCTURE	6	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.
61	CHANL/CHANL PROTECTION	6	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.
62	CULVERT AND RETAIN WALL	N	0 FAILED CONDITION - OUT OF SERVICE AND BEYOND CORRECTIVE ACTION.
71	WATERWAY ADEQUACY	6	
72	APPROACH RDWY ALIGNMENT	8	
521	OVERALL CONDITION	<input type="text" value="FAIR"/>	
16	LATITUDE	17 LONGITUDE	
	N 35° 37.6133'	W 89° 49.5667'	
TEAM LEADER SIGNATURE		REVIEW DATE	

Bridge Loc. No: 49-SR087-03.90 Date: 03-07-18



BRIDGE NUMBER



APPROACH 1 WEIGHT LIMIT SIGN 40 T - 40 T

Bridge Loc. No: 49-SR087-03.90 Date: 03-07-18



LOOKING AHEAD ON ROUTE



VIEW ACROSS TOP OF DECK

Bridge Loc. No: 49-SR087-03.90 Date: 03-07-18



LOOKING BACK ON ROUTE



APPROACH 2 WEIGHT LIMIT SIGN 40 T- 40 T

Bridge Loc. No: 49-SR087-03.90 Date: 03-07-18



RIGHT SIDE VIEW



SPAN 1 HOLE IN STEEL I BEAM

Bridge Loc. No: 49-SR087-03.90 Date: 03-07-18



ABUTMENT 1



ABUTMENT 2

Bridge Loc. No: 49-SR087-03.90 Date: 03-07-18



ABUTMENT 1



LEFT SIDE INLET END VIEW

Bridge Loc. No: 49-SR087-03.90

Date: 03-07-18



SPAN 1 BOTTOM DECK

MAR 07 2018

BRIDGE INSPECTION REPORTForm BIR 3.0
(Rev. 9-22-98)
DT-0069Field Report No.: 24Date: 3-7-18Previous Report No.: 23Date: 4/5/16Co. Seq 01 Plans: YES () NO ()Bridge No. 49SR0870011 Bridge Location No. 49 - SR087 - 0390
Eleven Digit No. Co. Route Log Mile

OVER/UNDER PASS

BRANCHRoad Name _____ Feature Intersected _____ CITY _____
Year Constructed 1986 County Lauderdale Maint. Dist: 49 Maint. Resp: 02
Year Widened _____ Year Rehabilitated _____

Structure Name (If Named)

FEATURESWearing Surface Concrete () Timber () Asphalt (x) Depth 3" (in.)
Flared Width Yes () No (x) Median Width Open () None (x) Closed ()
Navigational Control Yes () No (x) Bridge Skew 90 ° LT () RT ()
Structure Type (Main Span) STEEL I. BEAM
Structure Type (Appr. Spans) _____
No. Main Spans 1 No. Approach Spans _____
Maximum Span Length 29.0 (**. ft.)
Total Length 29.0 (**. ft.)**INSPECTORS**

1. Ellison (T.O.L.)
2. Wor
3. Haynes
4. Johnson
5. Gillispie
6. _____
7. _____
8. _____

WIDTHS (**. ft.)Deck Out-to-Out 27.8
Roadway Curb/Curb 26.8
Roadway Rail/Rail _____
Sidewalk Rt. _____ Lt. _____
*Approach Roadway 20.0
*(Does Not Include Shoulders)
Approach Shoulder Rt. 4.0
Lt. 4.0**CLEARANCES**Min. Vertical Clearance over Deck _____ (ft.-in.)
Min. Vertical Under Clearance _____ (ft.-in.)
Min. Lateral Under Clearance Rt. _____ (**. ft.)
Min. Lateral Under Clearance Lt. _____ (**. ft.)**FRACTURE CRITICAL:**

(If Yes, Include BIR 3.9)

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

UNDERWATER INSPECTION

To Be Performed By: _____ Date _____

DOT FIELD TEAM () CONTRACT DIVERS () NONE REQUIRED (x)

Change in Structural Condition: Yes () No (x)

Major Repairs Made: Yes (x) No ()

COMMENTS:

caps repaired at Abut 1 & 2

LATITUDE: N35 ° 37.6133LONGITUDE: W89 ° 49.5666

G.P.S. Location

BRIDGE RATING: () (x) () ()

GOOD FAIR POOR CRITICAL

Supervising Bridge Inspector: [Signature]

PERFORMANCE EVALUATION

Time of Day Inspected 10:35 Weather Conditions Cloudy 45°
Vehicles Observed All types

LIVE LOAD BEHAVIOR

Substructure	YES	NO	Comments
Horiz./ Vert. Defl.	()	(Y)	
Vibration	()	(L)	
Superstructure			
Horiz./ Vert. Defl.	()	(Y)	
Vibration	()	(Y)	

APPROACH

	Rating	Comments
Alignment	(G) F P C	
Slab	G F P C	
Joints	G F P C	
Pavement	G (F) P C	
Embankment	(G) F P C	
Drains	G F P C	

TRAFFIC SAFETY FEATURES

	Rating	STANDARD/ SUB-STANDARD	Comments
Bridgerailing	(G) F P C	() (X)	
Transitions	G F P C	() ()	
Guardrail	G F P C	() ()	
Guardrail Terminal	(G) F P C	() (X)	

SIGNING

	YES	NO	NEEDED	Weight Limit Posted
Paddleboards	(Y)	()	()	YES (Y) NO ()
Vertical Clearance (<14'-6")	()	(X)	()	Gross..... Tons
NARROW ()	()	(X)	()	2 Axle..... <u>40</u> Tons
ONE LANE BRIDGE ()	()	(Y)	()	3 or more Axles.. <u>40</u> Tons

Other Signs or Plaques: _____

Comments Regarding any Problems with Signing: _____

Form BIR 3.2
(Rev. 9-22-98)
DT-0081

MAR 07 2018

Bridge Location No. 49 - SR087 - 0390
Co. Route Log Mile

Date _____

DECK

	Rating	Comments
Wearing Surface	G <u>F</u> P C	
Deck - Structural	G <u>F</u> P C	
Condition		
Curbs <i>Wheelguards</i>	G <u>F</u> P C	
Median	G F P C	
Sidewalks	G F P C	
Parapet	G F P C	
Railing	<u>G</u> F P C	
Paint	G F P C	<u>—</u>
Drains	G F P C	
Lighting Standards	G F P C	
Utilities	G F P C	
Joint Leakage	G F P C	
Expansion Joints	G F P C	

SUPERSTRUCTURE

Bearing Devices	G F P C	
Beams <i>S.F.B</i>	G <u>F</u> P C	<i>span #1 "N" (244)</i>
Girders <i>Welding Timber</i>	G <u>F</u> P C	
PCCS	G F P C	
BOLTS (PCCS)	G F P C	
Floor Beams	G F P C	
Stringers	G F P C	
Diaphragms	G F P C	
Bracing	G F P C	
Trusses - General	G F P C	
Portals	G F P C	
Bracing	G F P C	
Paint	G <u>F</u> P C	
Alignment of Members	<u>G</u> F P C	

TEXTURE COAT

Condition Rating	G F P C	Fading	G F P C
Overall Appearance	G F P C	Needs Spot Painting	YES () NO ()
Staining Rating	G F P C	Needs Repainting	YES () NO ()

Comments _____ Scaling Rating G F P C
RECOMMENDATIONS: _____ CLEAN SEAL JOINTS ()
_____ CLEAN DRAINS ()

SUBSTRUCTURE

PILES TO BE
REPLACED

ABUTMENTS

	Rating	Comments	PILE(S)	ABUTMENT
Caps	G <u>F</u> P C			
Breastwall	G <u>F</u> P C			
Wings	G <u>F</u> P C			
Backwall	G <u>F</u> P C			
Plumb	G <u>F</u> P C			
Footings <i>Ret. wall</i>	G <u>F</u> P C			
Piles	G <u>F</u> P C			
Embankment	<u>G</u> F P C			
Bearing	G F P C	—		
Slope Paving	G F P C			
Rip Rap	G F P C	—		
Earthquake Devices	G F P C			

PIERS

			PILE(S)	PIER
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	G F P C			
Web	G F P C			
Earthquake Devices	G F P C			

BENTS

			PILE(S)	BENT
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	G F P C			
Bracing	G F P C			
Earthquake Devices	G F P C			

Piles Need Replacement: NO (X) YES ()
CUT VEGETATION NO () YES (X) (204)
CLEAR DRIFT NO (X) YES ()

RECOMMENDATIONS:

STREAM CHANNEL DATA AND CONDITIONS

Stream Crossing: BRANCH

- I. 1. Type of bed material? SAND, SILT
2. Has channel shifted? YES () NO () NOT APPARENT ()
3. Condition of rip-rap? G F P C Est. % failed _____ % N/A (X)
4. Overall condition of channel? G (F) P C
5. Item 61 - Code values 0 thru 9 according to the recording
and coding guide currently in effect: 6
6. Underwater diver inspection recommended? YES () NO (X)
If yes, why? _____
- II. Channel and bank stability conditions: (check if applicable)
1. Steep bank conditions: - Failures upstream () Failures downstream ()
2. Moderate bank erosion (X)
3. Bank vegetation: a. low growth () b. large timber (X) c. clear banks ()
d. dead trees upstream (X) e. dead trees downstream (X)
4. Sediment or gravel accumulation: YES (X) NO () UNKNOWN ()
5. Channel altered or straightened: YES () NO (X) UNKNOWN ()
6. Stable conditions: a. live growth (X) b. bedrock ()
c. boulders () d. flat slopes ($\leq 2:1$) ()
- III. Waterway adequacy and debris characteristics: (check if applicable)
1. Bridge deck elevations:
a. level with approach roadway. (X)
b. higher than approach roadway. ()
c. roadway approach ≥ 2 ft. above natural ground line. . (X)
2. Abutment encroaches into channel. ()
3. Large scour (blowhole) under bridge. ()
4. Indications that flood waters overtop bridge:
NO () YES (X) OCCASSIONALLY (X) FREQUENTLY () UNKNOWN ()
5. Debris characteristics:
a. debris/drift present YES (X) NO ()
b. debris/drift likely to accumulate YES (X) NO ()
c. dead trees upstream (X) dead trees downstream (X)
- IV. Comments: _____

SPECIAL INSPECTION DATA - FOR REASONS OTHER THAN FC OR SCOUR

- I. Does this bridge need a special inspection? YES () NO ()
II. Reason for special inspection: _____

Inspection Team's Summary
Bridge Location No. 49 - SR087 - 03.90
Inspection Date 03-07-18
Bridge Rating FAIR

THIS IS A 1 SPAN STEEL I BEAM BRIDGE WITH BRIDGE RAILS, 4
PADDLE BOARD SIGNS & 40 TON WEIGHT LIMIT SIGNS POSTED ON
APPROACH # 1 & 2
THE SUPERSTRUCTURE IS STEEL
THE SUBSTRUCTURE IS TIMBER
APPROACH # 1 & 2 A/C HAS 1/8" CRACKS & PATCHING
THE A/C WEARING SURFACE HAS 1/8" CRACKS
THE BOTTOM DECK HAS MEDIUM WEATHERING
THE SUPERSTRUCTURE HAS LIGHT TO HEAVY CORROSION
STEEL I BEAM "N" HAS A HOLE IN THE FLANGE OVER ABUTMENT # 2
BUT IS 52" OUT SIDE THE WHITE LINE
THE SUBSTRUCTURE HAS UPTO MEDIUM WEATHERING

VEGETATION IS POOR HEAVY GROWTH

SCOUR IS FAIR @ THIS TIME

JASON ELLISON

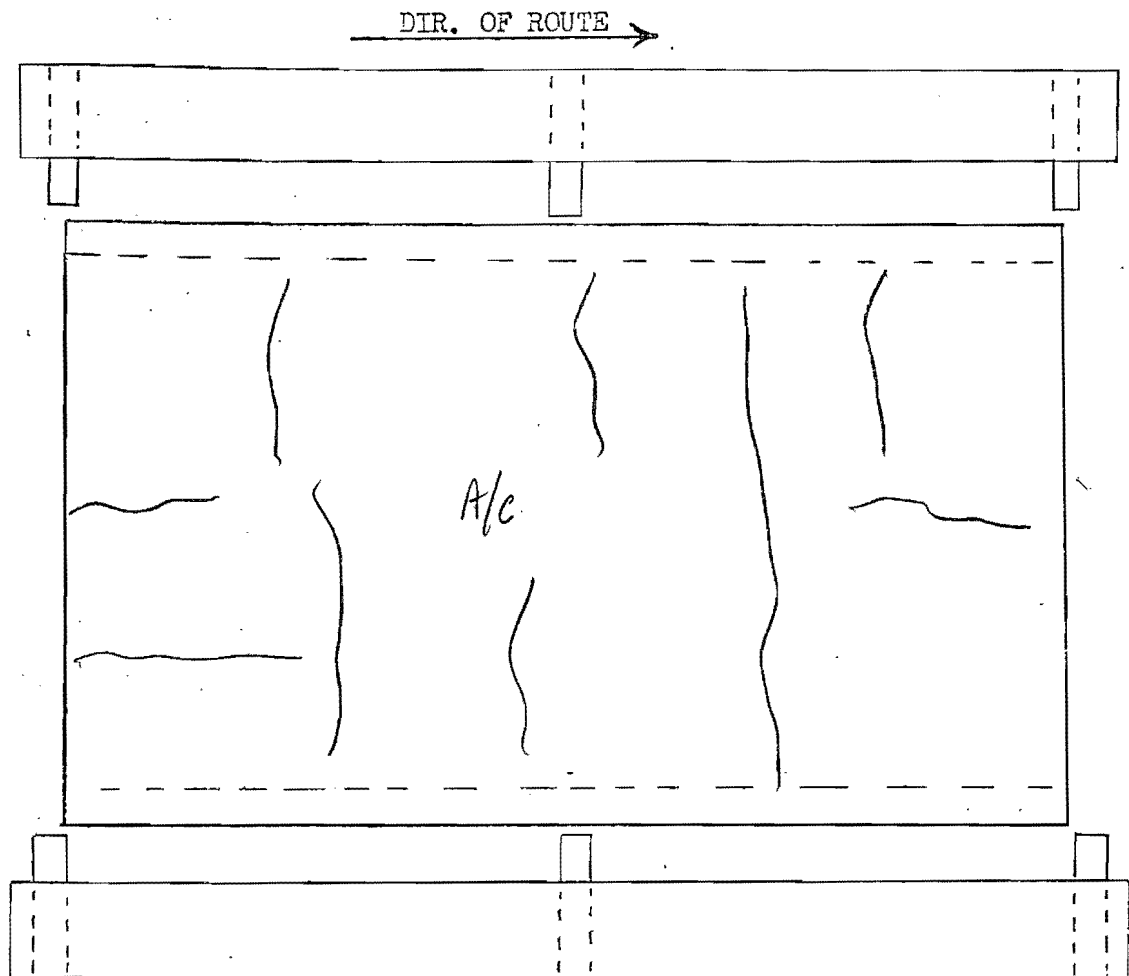
INSPECTOR

CROSS SECTION: YES () NO (X) BRM: YES (X) NO ()

BR. NO. 49 57 390 SK. 90°

MAR 07 2018

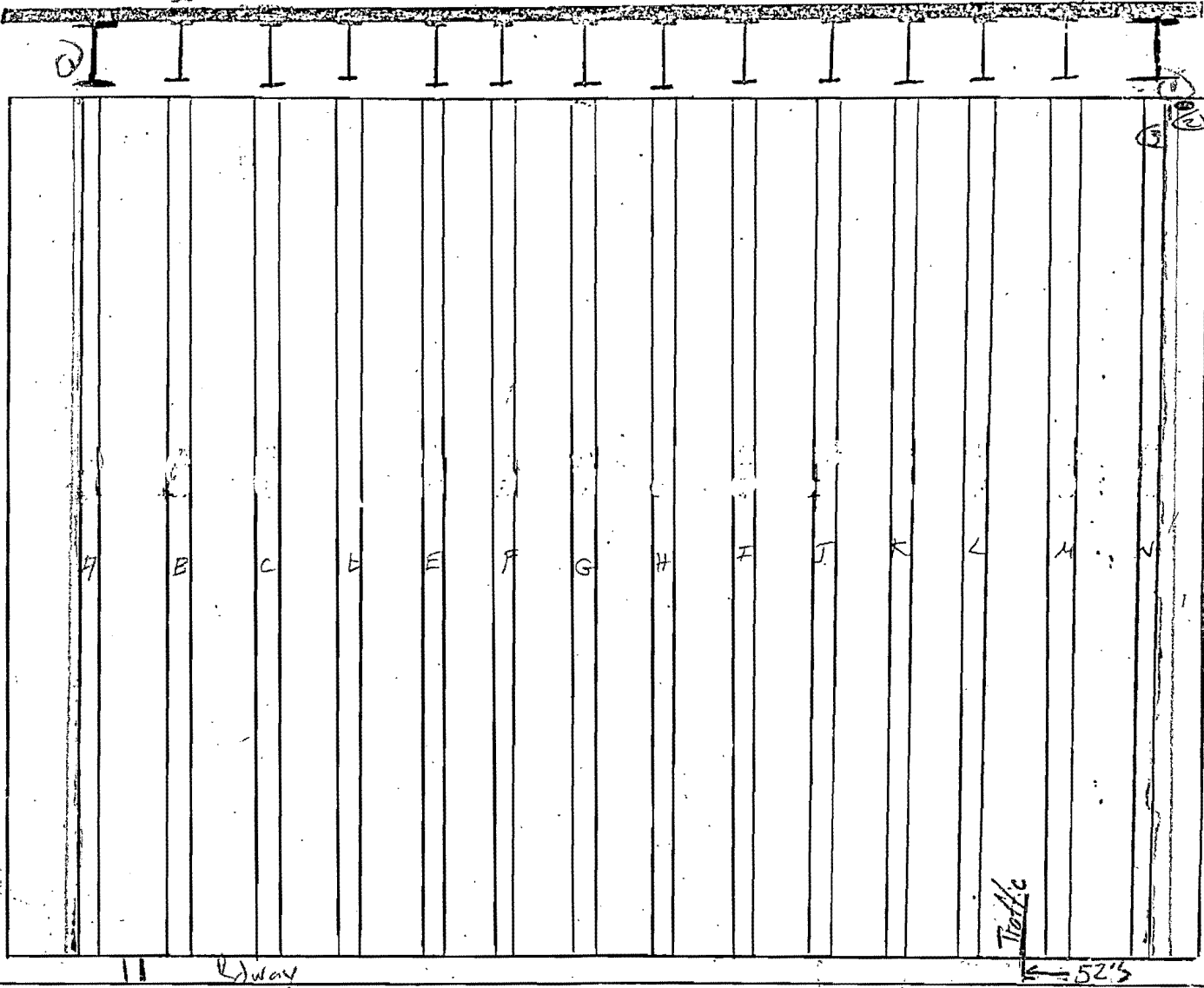
SPAN NO. 1



ELEMENT	RATING	COMMENT
TOP DECK	G <u>F</u> P C	1/8" cracks
RAILS & POST	G <u>F</u> P C	
PAINT	G F P C	light weathering
DRAINS	G F P C	
JOINTS	G F P C	
W/G	G <u>F</u> P C	

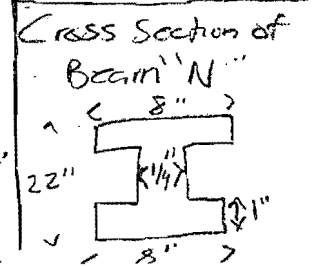
BR. NO. 49 87 3.98 SKEN 90° MAR 07 2018
 ① Light Corrosion W/ NO MEAS. SEC. LOSS @ Top Flange 3.90 ② Hole
 52" (Cross-Section)
 6" L x 1" H
 X 1/4" Through Beam

DIR. OF ROUTE



ELEMENT	RATING	COMMENT
BOTTOM DECK	G (F) P C	Med. Weathering
S. I. B.		
A B-M	G (F) P C	Light Surface Rust
A	G (F) P C	sec ①
N	G F (P) C	②
DIA.	G F P C	
PAINT	G F P C	
Flm. Nailers	G F P C	

③ Heavy Corrosion @ Top Flange (SER "N")
 1/2" Sec. Loss
 (1' Length)
 ④ Beam "N" is
 * 52" from
 Net. Eastbound
 Lane (Under
 Line)



Date: MAR 07 2018

BRIDGE NUMBER: 49SR0870011 49 SR087 0390

CROSSING: BRANCH

Pg. # _____ of _____

DATE 4/5/16

ABUT/BENT/ PIER NUMBER	TOTAL HEIGHT TOP OF CAP TO (OR GROUND LINE/ DATE FOR PILES	(t) FOOTING THICKNESS	W/FTG @ H= TOP OF CAP TO TOP OF FOOTING	EXPOSURE
1	10.0	1.0	10.0	10.0
2	10.0	1.0	10.0	10.0
3	10.0	1.0	10.0	10.0
4	10.0	1.0	10.0	10.0
5	10.0	1.0	10.0	10.0
6	10.0	1.0	10.0	10.0
7	10.0	1.0	10.0	10.0
8	10.0	1.0	10.0	10.0
9	10.0	1.0	10.0	10.0
10	10.0	1.0	10.0	10.0
11	10.0	1.0	10.0	10.0
12	10.0	1.0	10.0	10.0
13	10.0	1.0	10.0	10.0
14	10.0	1.0	10.0	10.0
15	10.0	1.0	10.0	10.0
16	10.0	1.0	10.0	10.0
17	10.0	1.0	10.0	10.0
18	10.0	1.0	10.0	10.0
19	10.0	1.0	10.0	10.0
20	10.0	1.0	10.0	10.0
21	10.0	1.0	10.0	10.0
22	10.0	1.0	10.0	10.0
23	10.0	1.0	10.0	10.0
24	10.0	1.0	10.0	10.0
25	10.0	1.0	10.0	10.0
26	10.0	1.0	10.0	10.0
27	10.0	1.0	10.0	10.0
28	10.0	1.0	10.0	10.0
29	10.0	1.0	10.0	10.0
30	10.0	1.0	10.0	10.0
31	10.0	1.0	10.0	10.0
32	10.0	1.0	10.0	10.0
33	10.0	1.0	10.0	10.0
34	10.0	1.0	10.0	10.0
35	10.0	1.0	10.0	10.0
36	10.0	1.0	10.0	10.0
37	10.0	1.0	10.0	10.0
38	10.0	1.0	10.0	10.0
39	10.0	1.0	10.0	10.0
40	10.0	1.0	10.0	10.0
41	10.0	1.0	10.0	10.0
42	10.0	1.0	10.0	10.0
43	10.0	1.0	10.0	10.0
44	10.0	1.0	10.0	10.0
45	10.0	1.0	10.0	10.0
46	10.0	1.0	10.0	10.0
47	10.0	1.0	10.0	10.0
48	10.0	1.0	10.0	10.0
49	10.0	1.0	10.0	10.0
50	10.0	1.0	10.0	10.0
51	10.0	1.0	10.0	10.0
52	10.0	1.0	10.0	10.0
53	10.0	1.0	10.0	10.0
54	10.0	1.0	10.0	10.0
55	10.0	1.0	10.0	10.0
56	10.0	1.0	10.0	10.0
57	10.0	1.0	10.0	10.0
58	10.0	1.0	10.0	10.0
59	10.0	1.0	10.0	10.0
60	10.0	1.0	10.0	10.0
61	10.0	1.0	10.0	10.0
62	10.0	1.0	10.0	10.0
63	10.0	1.0	10.0	10.0
64	10.0	1.0	10.0	10.0
65	10.0	1.0	10.0	10.0
66	10.0	1.0	10.0	10.0
67	10.0	1.0	10.0	10.0
68	10.0	1.0	10.0	10.0
69	10.0	1.0	10.0	10.0
70	10.0	1.0	10.0	10.0
71	10.0	1.0	10.0	10.0
72	10.0	1.0	10.0	10.0
73	10.0	1.0	10.0	10.0
74	10.0	1.0	10.0	

[illegible]

TOP OF CAP TO TOP OF WATER: RIP-RAP: YES: () NO: ~~(X)~~

100.00' UPSTREAM: _____

THRU STRUCTURE: _____

100.00' DOWNSTREAM: _____

@ ABUTMENTS: _____

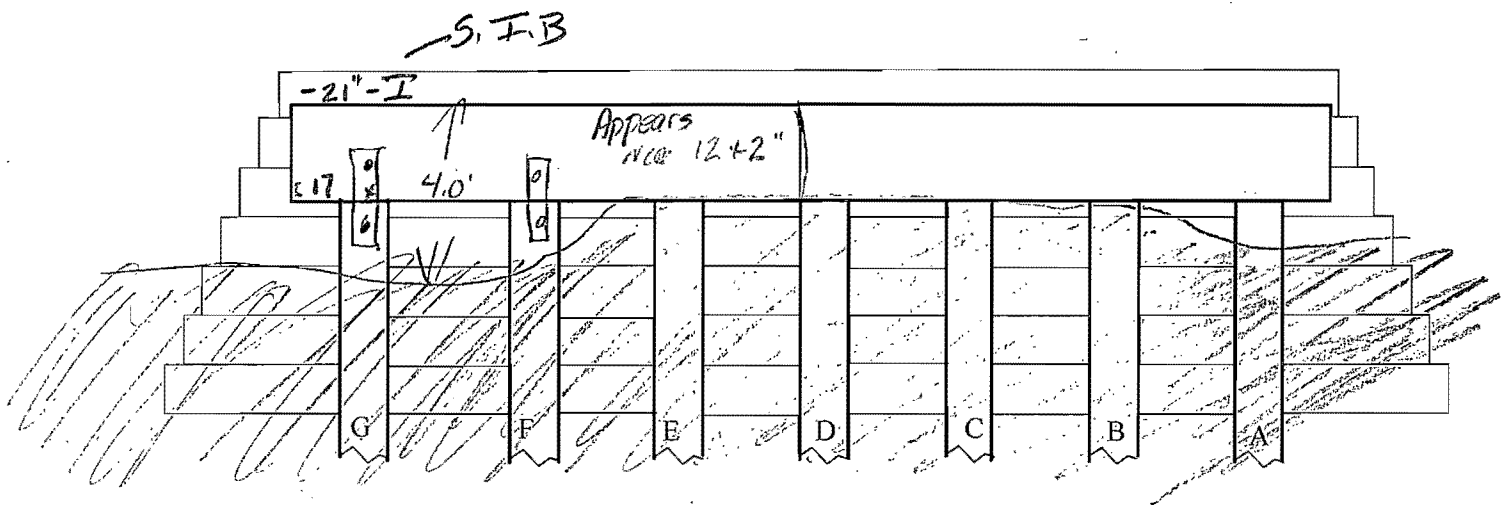
@ BENTS/PIERS: _____

UPSTREAM DOWNSTREAM 

THRU STRUCTURE

COMMENTS: _____

MAR 07 2018



LOOKING BACK

ELEMENT	RATING	COMMENT
CAP	G (F) P C	med weather
WINGS	G (F) P C	
PILES A	G (F) P C	med weather
B	G F P C	N/A
C	G F P C	
D	G F P C	
E	G F P C	
F	G F P C	med weather
G	G (F) P C	
BREASTWALL	G (F) P C	med weather
EMB.	(G) F P C	
VEG.	G F (P) C	heavy growth
RIP - RAP	G F P C	N/A
Ret wall	G (F) P C	med weather
	G F P C	
	G F P C	

49-SR87-3.90

Bridge No.

Co.

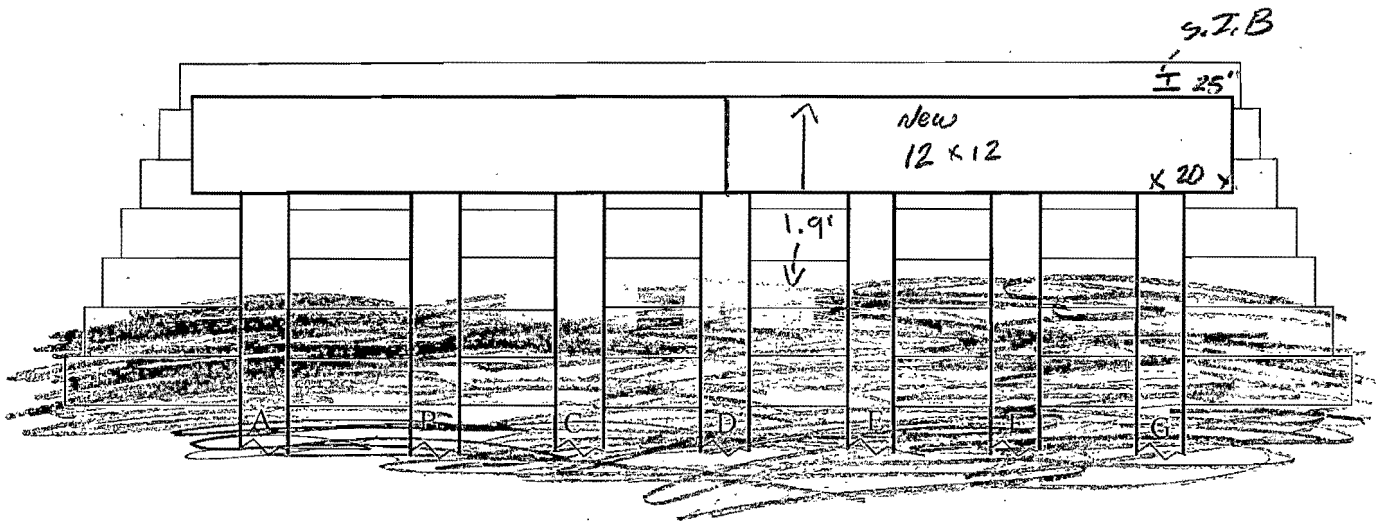
Route

Log Mile

ABUT. NO.

2

MAR 07 2018



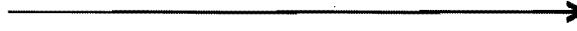
LOOKING AHEAD

ELEMENT	RATING	COMMENT
CAP	G (F) P C	up to med weathering
WINGS	G (F) P C	
PILES A	G (F) P C	
B	G (F) P C	
C	G (F) P C	
D	G (F) P C	
E	G (F) P C	
F	G (F) P C	
G	G (F) P C	
BREASTWALL	G (F) P C	
EMB.	G (F) P C	
VEG.	G (F) P C	light growth
RIP - RAP	G F P C	N/A
	G F P C	
	G F P C	
	G F P C	

MAR 07 2018

49SR0870011 49 SR087 0390 SKEW: 90
BRIDGE NO.: CO. ROUTE L.M. L/R

Direction of Route



A1

A2

F = FIXED
E = EXPANSION
S = SIMPLE
C = CONTINUOUS

