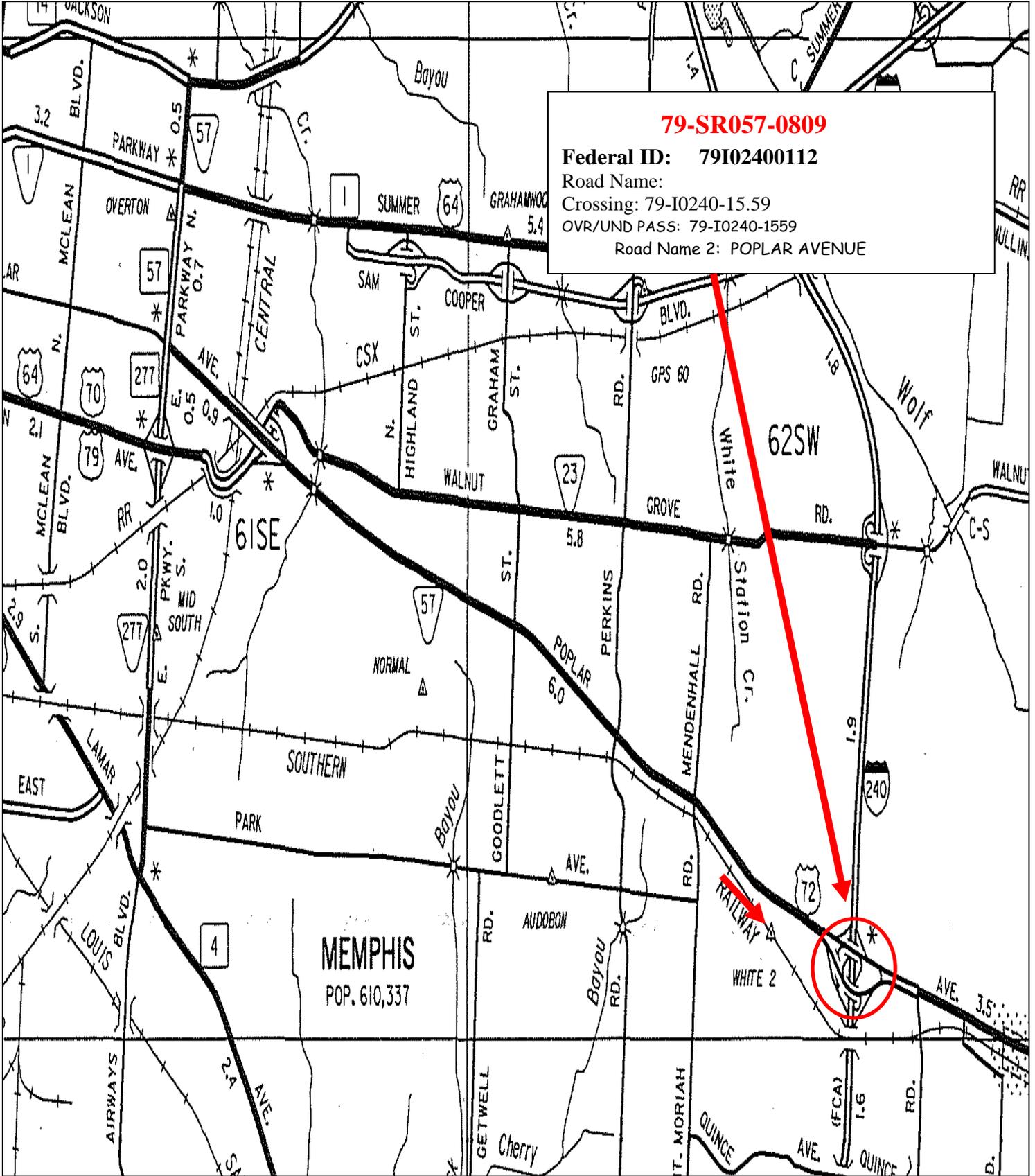


**SHELBY COUNTY**



**79-SR057-0809**

**Federal ID: 79I02400112**

Road Name:

Crossing: 79-I0240-15.59

OVR/UND PASS: 79-I0240-1559

Road Name 2: POPLAR AVENUE

**BRIDGE MAINTENANCE RECOMMENDATIONS**



Tennessee Department  
of Transportation

COUNTY: SHELBY  
 LOCATION: 79-SR057-08.09-L  
 CO. SEQ.: 1 SPEC. CASE: 0

CROSSING: SR-57 W.B. / I-240  
 FED. BRIDGE NO.: 79I02400112  
 MAINT. DIST.: 79

REPAIR LIST NO.: 2  
 DATE ADDED: 10/05/1994  
 REVISED: 03/23/2015

FACILITY CARRIED:	FAU 57 WB	NUMBER OF MAIN SPANS:	5
HIGHWAY SYSTEM:	13-NHS URBAN, STATE SYS.	NUMBER OF APPROACH SPANS:	0
BRIDGE WIDTH (CURB TO CURB):	40 FT 0 IN	BRIDGE LENGTH (FT):	285
BRIDGE WIDTH (OUT TO OUT):	54 FT 1 IN	MAXIMUM SPAN LENGTH (FT):	68
APPROACH ROADWAY (W/SHOULDERS):	40 FT 0 IN	SKEW ANGLE (DEGREES):	76
MAINTAINED BY:	STATE HIGHWAY AGENCY		
MAIN SPAN MATERIAL:	PRESTRESSED CONCRETE		
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:	03/23/2015	GENERAL CONDITION:	FAIR
EVALUATION DATE:	04/08/2013	STRUCTURALLY DEFICIENT:	YES
PPRM PIN NUMBER:		SUFFICIENCY RATING:	62.7
H TRUCK RATING @ INV.:	20 TONS		

<b>SUGGESTED ROUTINE MAINTENANCE AND COMMENTS</b>
CLEAN AND SEAL ROADWAY EXPANSION JOINTS.
REPAIR SIDEWALK AT APPROACH NO.1 RT & LT & 2 RT & LT
UNDERPASS SUBSTRUCTURE PROTECTION GUARDRAILS ARE SUBSTANDARD

<b>GENERAL COMMENTS:</b>
03-23-15 BOTTOM DECK WAS PATCHED



STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

# Bridge Condition Coding Form

Revised 03/24/2015

Bridge Number: 79I024001121  
(Includes Item 5A)

Feature Intersected: SR-57 W.B. / I-240

Evaluation Status: CONDITION ITEM CHANGE

County: 79

Route: SR057

Special Case: 0

County Sequence: 1

Log Mile: 8.09

## CODE ONLY THOSE VALUES WHICH HAVE CHANGED

ITEM #	DESCRIPTION	VALUE	CONDITION CODING GUIDELINES	
90	LAST INSPECTION DATE	<b>03/23/2015</b>	(Values for Coding Items 58, 59, 60 and 62)	
	EARLIEST DATE OF NEXT REGULAR INSPECTION	<b>01/21/2017</b>		
		<u>    </u> / <u>    </u> / <u>    </u>		
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	1	7 GOOD CONDITION - SOME MINOR PROBLEMS.	
	Trans.	1	6 SATISFACTORY CONDITION - MINOR DETERIORATION OF STRUCTURAL ELEMENTS.	
	Appr. Rail	1	5 FAIR CONDITION - ALL PRIMARY STRUCTURAL ELEMENTS ARE SOUND BUT MAY HAVE MINOR SECTION LOSS, CRACKING, SPALLING OR SCOUR.	
	Terminal	1	4 POOR CONDITION - ADVANCED SECTION LOSS, DETERIORATION, SPALLING OR SCOUR.	
	SPEED LIMIT	40	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 IT BACK IN LIGHT SERVICE.
58	DECK	5	0 FAILED CONDITION - OUT OF SERVICE AND BEYOND CORRECTIVE ACTION.	
59	SUPERSTRUCTURE	5		
60	SUBSTRUCTURE	6		
61	CHANL/CHANL PROTECTION	N		
62	CULVERT AND RETAIN WALL	N		
71	WATERWAY ADEQUACY	N		
72	APPROACH RDWY ALIGNMENT	8		
521	OVERALL CONDITION	<b>FAIR</b>		
16	LATITUDE	N 35° 6.2450'		
17	LONGITUDE	W 89° 52.1883'		

TEAM LEADER SIGNATURE

REVIEW DATE

Bridge Loc. No: 79-SR057-08.09      Date: 03-23-15



**BRIDGE NUMBER**



**DIRECTION OF ROUTE**

**Bridge Loc. No: 79-SR057-08.09      Date: 03-23-15**



**APPROACH # 1 LEFT SIDEWALK SETTLED**



**VIEW OF TOP DECK**

**Bridge Loc. No: 79-SR057-08.09      Date: 03-23-15**



**APPROACH # 2 JOINT MATERIAL TORN AND MISSING**



**OPPOSITE DIRECTION OF ROUTE**

**Bridge Loc. No: 79-SR057-08.09      Date: 03-23-15**



**APPROACH # 2 LEFT SIDEWALK SETTLED**



**APPROACH # 2 RIGHT SIDEWALK SETTLED**

**Bridge Loc. No: 79-SR057-08.09      Date: 03-23-15**



**ABUTMENT # 2**



**RIGHT ELEVATION**

**Bridge Loc. No: 79-SR057-08.09      Date: 03-23-15**



**RIGHT ELEVATION**



**BOTTOM DECK SPAN # 4**

Bridge Loc. No: 79-SR057-08.09      Date: 03-23-15



LEFT ELEVATION



LEFT ELEVATION

**Bridge Loc. No: 79-SR057-08.09      Date: 03-23-15**



**ABUTMENT # 1**



**BENT # 1 REAR**

Bridge Loc. No: 79-SR057-08.09      Date: 03-23-15



**BENT # 1 REAR SPALL TO STEEL**



**BOTTOM DECK SPAN # 2**

**Bridge Loc. No: 79-SR057-08.09**

**Date: 03-23-15**



**SPAN # 2 BOTTOM DECK SPALL TO STEEL**

MAR 23 2015

### BRIDGE INSPECTION REPORT

Form BIR 3.0  
(Rev. 9-22-98)  
DT-0069

Field Report No.: 22 Date: 3-23-15  
Previous Report No.: 21 Date: 3-4-13  
Co. Seq 01 Plans: YES (X) NO ( )

Bridge No. 79I02400112 Bridge Location No. 79 - SR057 - 0809 79 - I0240 - 1573 A  
Eleven Digit No. Co. Route Log Mile OVER/UNDER PASS

Road Name \_\_\_\_\_ Feature Intersected \_\_\_\_\_ CITY \_\_\_\_\_  
Year Constructed 1958 County SHELBY Maint. Dist: 49 Maint.Resp: 02  
Year Widened \_\_\_\_\_ Year Rehabilitated \_\_\_\_\_ Structure Name (If Named) \_\_\_\_\_

#### FEATURES

Wearing Surface Concrete (X) Timber ( ) Asphalt ( ) Depth \_\_\_\_\_ (in.)  
Flared Width Yes ( ) No (X) Median Width Open ( ) None (X) Closed ( )  
Navigational Control Yes ( ) No (X) Bridge Skew 77L ° LT ( ) RT ( )  
Structure Type (Main Span) CONCRETE I BEAM  
Structure Type (Appr.Spans) \_\_\_\_\_  
No. Main Spans 5 No. Approach Spans \_\_\_\_\_  
Maximum Span Length 75.5 (\*\*. \* ft.)  
Total Length 294.5 (\*\*. \* ft.)

#### INSPECTORS

1. Boman
2. Ellison
3. Jackson
4. Greer
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_

#### WIDTHS (\*. \* ft.)

Deck Out-to-Out 54.5  
Roadway Curb/Curb 40.0  
Roadway Rail/Rail \_\_\_\_\_  
Sidewalk Rt. 6.0 Lt. 6.0  
\*Approach Roadway 40.0  
\*(Does Not Include Shoulders)  
Approach Shoulder Rt. \_\_\_\_\_  
Lt. \_\_\_\_\_

#### CLEARANCES

Min. Vertical Clearance over Deck \_\_\_\_\_ (ft.-in.)  
Min. Vertical Under Clearance 16'3" (ft.-in.)  
Min. Lateral Under Clearance Rt. 3.0' (\*. \* ft.)  
Min. Lateral Under Clearance Lt. 4.0' (\*. \* 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:

*Bottom dock have been patched*

LATITUDE: N35 ° 6.2450  
LONGITUDE: W89 ° 52.1883  
G.P.S. Location

BRIDGE RATING: ( ) (X) ( ) ( )  
GOOD FAIR POOR CRITICAL

Supervising Bridge Inspector: *[Signature]*

MAR 23 2015

Form BIR 3.1  
(Rev. 9-22-98)  
DT-0080

Bridge Location No. 79 - SR057 - 8.09 -  
Co. Route Log Mile

Date \_\_\_\_\_

**PERFORMANCE EVALUATION**

Time of Day Inspected \_\_\_\_\_ Weather Conditions Clear 60°

Vehicles Observed All Types

**LIVE LOAD BEHAVIOR**

Substructure	YES	NO	Comments
Horiz./ Vert. Defl.	( )	(X)	_____
Vibration	( )	(X)	_____
Superstructure			
Horiz./ Vert. Defl.	( )	(X)	_____
Vibration	( )	(X)	_____

**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	_____

S.W.

(P) - All Corner Settled - 005

**TRAFFIC SAFETY FEATURES**

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

**SIGNING**

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

Other Signs or Plaques: \_\_\_\_\_

Comments Regarding any Problems with Signing: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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

Bridge Location No. 79 - SR057 - 8.09 -  
Co. Route Log Mile

Date \_\_\_\_\_

**DECK**

	Rating	Comments
Wearing Surface	G (F) P C	
Deck - Structural Condition	G (F) P C	
Curbs	G F P C	
Median	G F P C	
Sidewalks	(G) F P C	
Parapet	G (F) P C	
Railing	(G) F P C	
Paint	G F P C	
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	Span 5 water missing (031)

**SUPERSTRUCTURE**

Bearing Devices	G F P C	
Beams	G (F) P C	
Girders	G F P C	
P C C S	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 F P C	
Alignment of Members	(G) F P C	

**TEXTURE COAT**

Condition Rating	G (F) P C
Overall Appearance	G (F) P C
Staining Rating	G (F) P C

Fading	G (F) P C
Needs Spot Painting	YES ( ) NO (X)
Needs Repainting	YES ( ) NO (X)

Comments \_\_\_\_\_ Scaling Rating (G) F P C

RECOMMENDATIONS: \_\_\_\_\_ CLEAN SEAL JOINTS ( )  
 \_\_\_\_\_ CLEAN DRAINS ( )  
 \_\_\_\_\_  
 \_\_\_\_\_

MAR 23 2015

Form BIR 3.3  
(Rev. 9-22-98)  
DT-0082

Bridge Location No. 79 - SR057 - 8.09 -  
Co. Route Log Mile

Date \_\_\_\_\_

**SUBSTRUCTURE**

PILES TO BE REPLACED

**ABUTMENTS**

	Rating	Comments	PILE(S)	ABUTMENT
Caps	G F P C			
Breastwall <i>Ret. wall</i>	G F P C			
Wings	G F P C			
Backwall	G F P C			
Plumb	G F P C			
Footing	G F P C			
Piles	G F P C	<i>WV</i>		
Embankment	G 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**

	Rating	Comments	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**

	Rating	Comments	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 <i>Parapet</i>	G F P C			
Earthquake Devices	G F P C			

Piles Need Replacement: NO (  ) YES ( ) \_\_\_\_\_

CUT VEGETATION NO (  ) YES ( ) \_\_\_\_\_

CLEAR DRIFT NO (  ) YES ( ) \_\_\_\_\_

RECOMMENDATIONS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Inspection Team's Summary  
Bridge Location No. 79 -SR057 - 08.09  
Inspection Date 03-23-15  
Bridge Rating FAIR

THIS 5 SPAN CONCRETE I BEAM WITH GUARDRAILS AND BRIDGE  
RAILS.

SIDEWALK IS SETTLED LEFT AND RIGHT SIDES AT APPROACH # 1 AND #  
2.

SPAN # 5 JOINT MATERIAL IS TORN, 40% MISSING.

SUPERSTRUCTURE CONCRETE I BEAMS WITH PATCHED AREAS, FINE  
CRACKS AND SPALLING.

BOTTOM DECK BEAMS HAS SPALLING ON SPAN # 4.

SUBSTRUCTURE IS CONCRETE WITH FINE CRACKS AND SPALLING.

LOW CLEARANCE IS 16'3".

DENNIS BOMAR

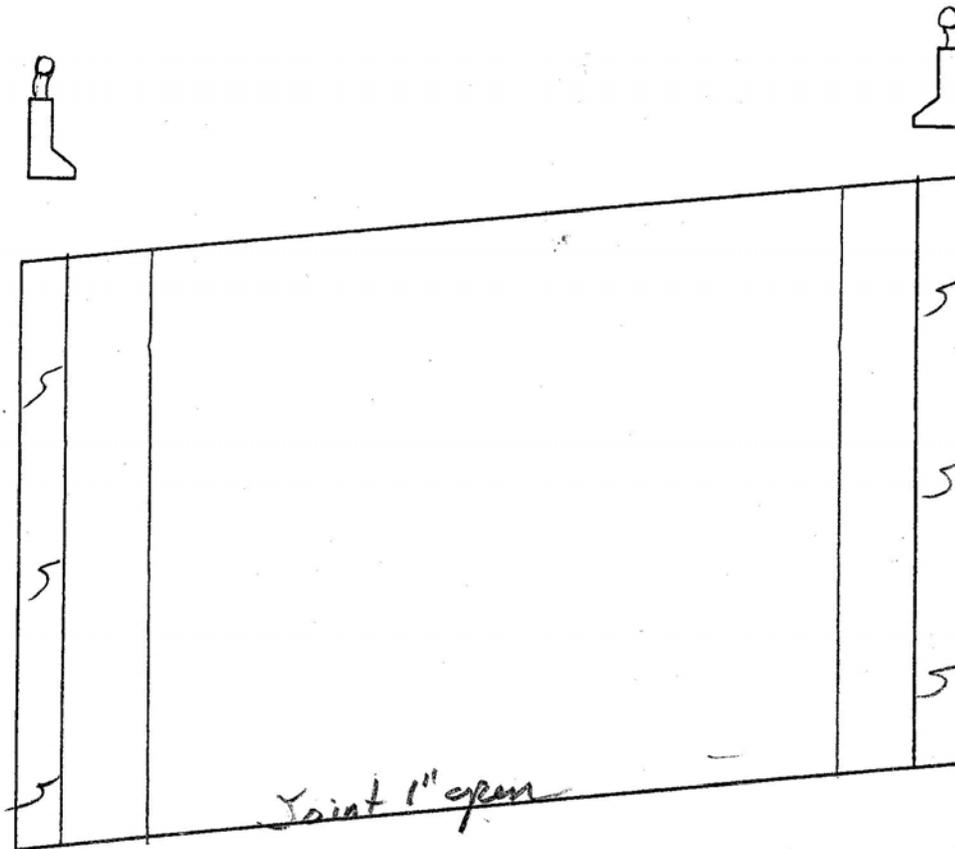
\_\_\_\_\_  
INSPECTOR

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

MAR 23 2015

79 57 8.09  
 Bridge No. Co. Route Log Mile R/L Skew

SPAN. NO. /

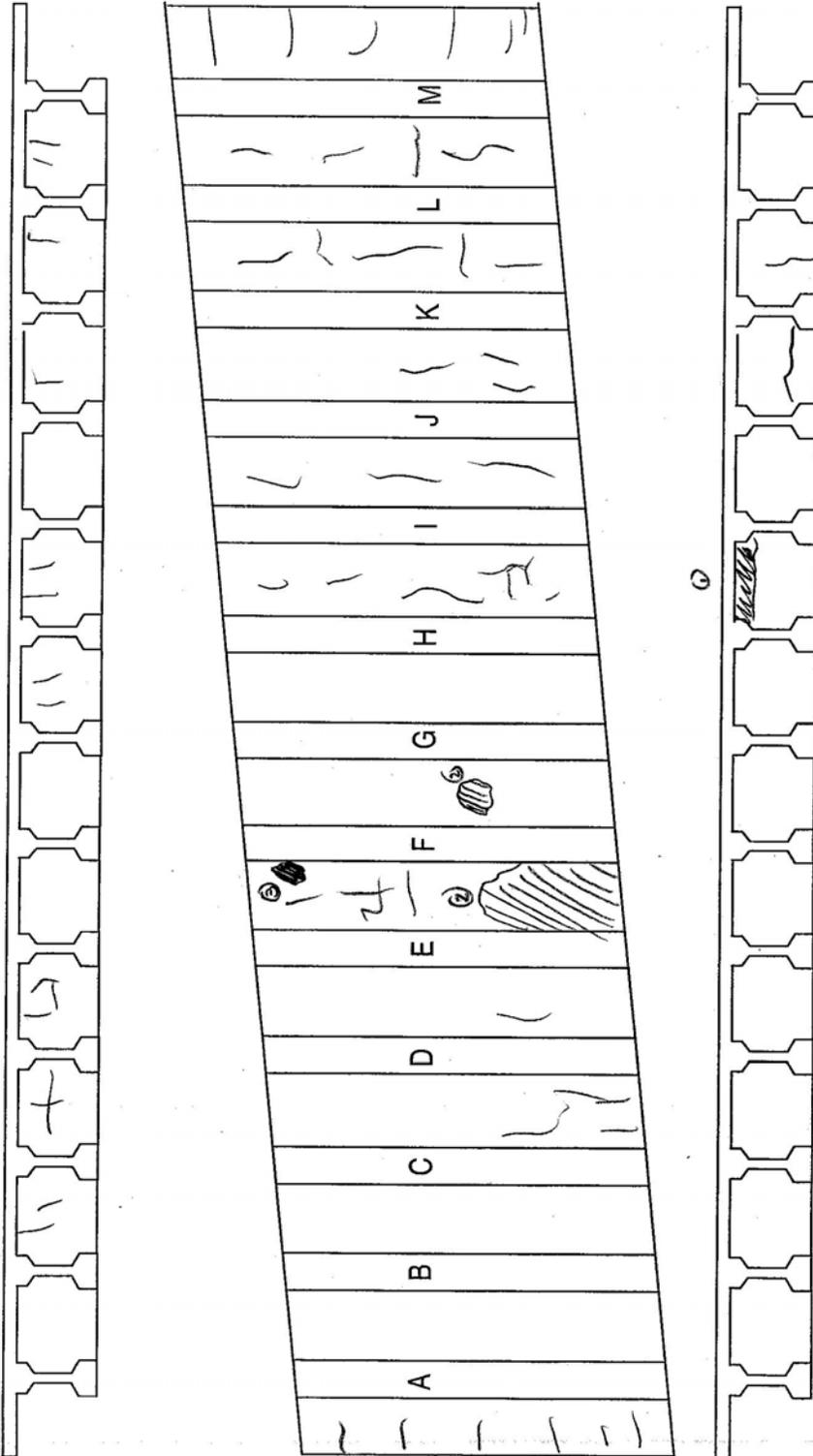


ELEMENT	RATING	COMMENT
TOP DECK	G F P C	Traffic Area
PARAPET	G F P C	Five Cracks
DRAINS	G F P C	
JOINTS	G F P C	
Rails	G F P C	
Sidewalk	G F P C	

79-57-8.09  
 Bridge No. \_\_\_\_\_ RT.

SKEW \_\_\_\_\_

MAR 23 2015  
 Span No.   1  



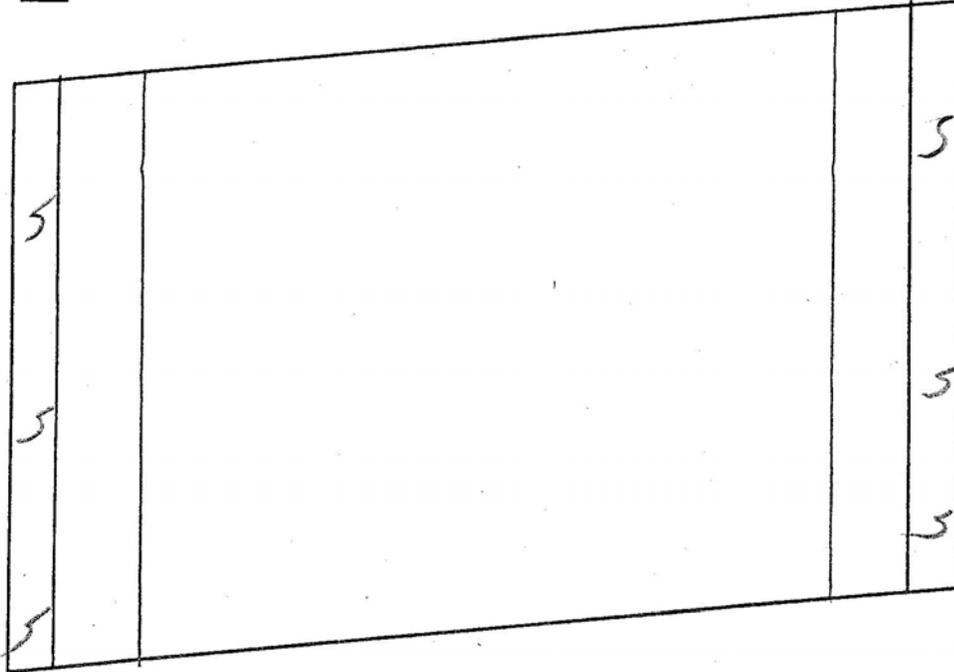
ELEMENT	RATING	COMMENTS
BOTTOM DECK	G ⊕ P C	② PATCH AREA, ③ SPALL TO STEEL 1'0" LX 6" LX 1" D, HAIRLINE, FINE CRACKS
CONC. I BEAM	⊕ F P C	
A --- M	⊕ F P C	④ SPALL TO STEEL 3'0" LX 1'0" LX 2" D, HAIRLINE CRACKS HAIRLINE CRACKS
EQ	⊕ F P C	
BACKWALLS	G ⊕ P C	
DIA.	G ⊕ P C	

MAR 23 2015

79 57 8.09

Bridge No. Co. Route Log Mile R/L Skew

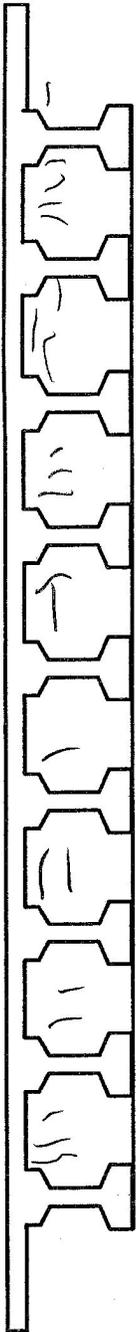
SPAN. NO. 2



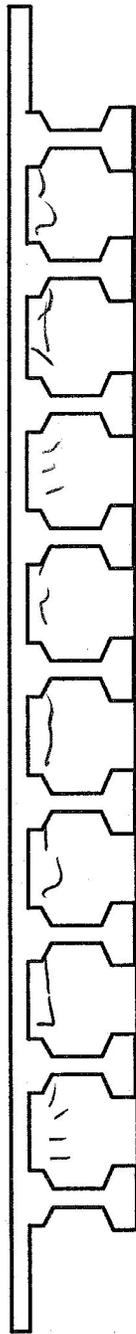
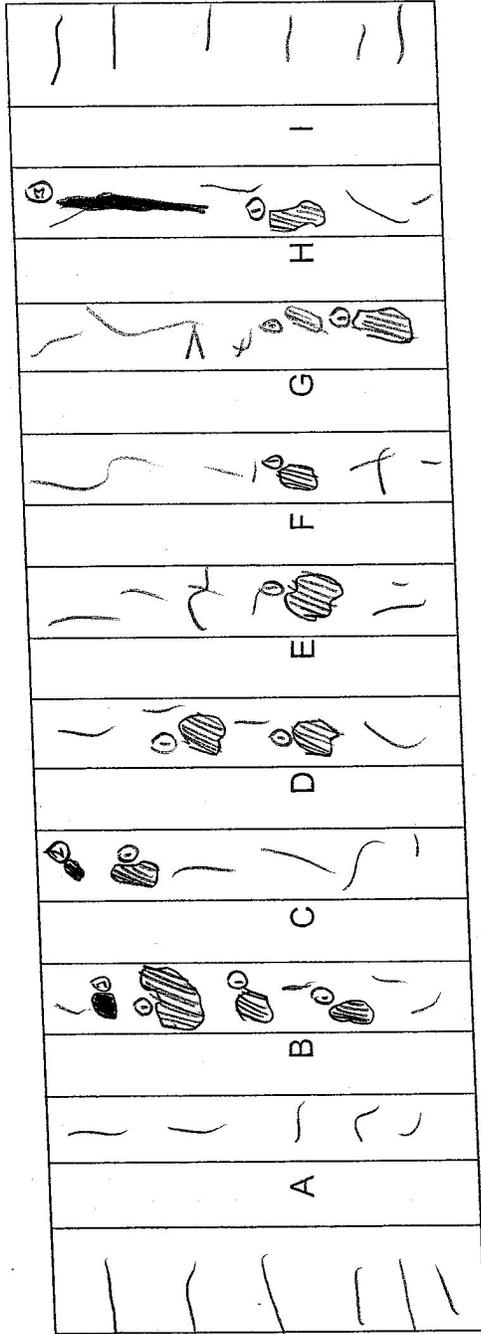
ELEMENT	RATING	COMMENT
TOP DECK	G F P C	Traffic Abre
PARAPET	G F P C	Fine Cracks
DRAINS	G F P C	} N/A
JOINTS	G F P C	
Rails	G F P C	
Sidewalk	G F P C	

MAR 23 2015

Bridge No. 79-57-8.09 SKEW R/L Span No. 2



LOOKING AHEAD



LOOKING BACK

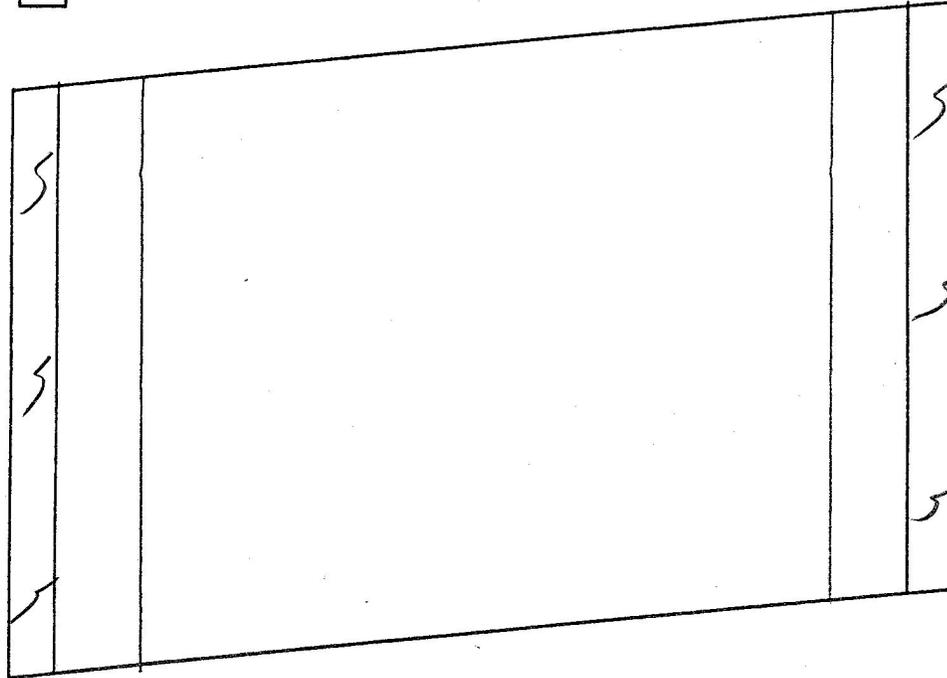
ELEMENT	RATING	COMMENTS
BOTTOM DECK	G ⊕ P C	① PATCHED AREA ② SPALL TO STEEL 1.5' DIA. X 1" D HAIRLINE CRACKS ③ SPALLING 20' L X 6" W X 1/2" D
CONC. I BEAM	⊕ F P C	
A --- E	⊕ F P C	
E-Q	⊕ F P C	
BACKWALLS	G F P C	
DIA.	G F P C	
	G ⊕ P C	N/A HAIRLINE, FINE CRACKS

MAR 23 2015

79 57 8.09

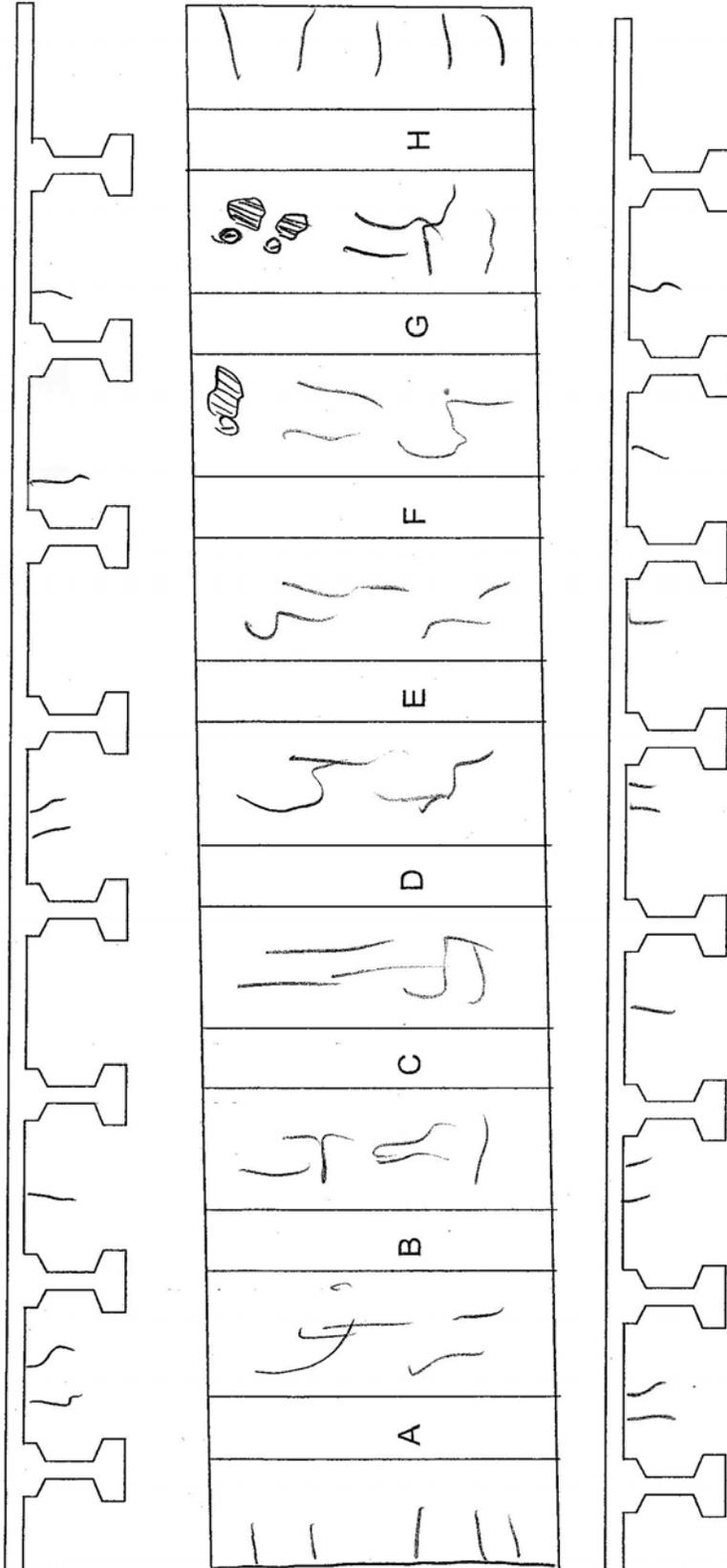
Bridge No. Co. Route Log Mile R/L Skew

SPAN. NO. 3



ELEMENT	RATING	COMMENT
TOP DECK	G P C	Traffic Abra
PARAPET	G P C	Fine Cracks
DRAINS	G F P C	N/A
JOINTS	G F P C	
Rails	G F P C	
Sidewalk	G F P C	

Bridge No. 79-578.09 SKEW RL \_\_\_\_\_ Span No. 3



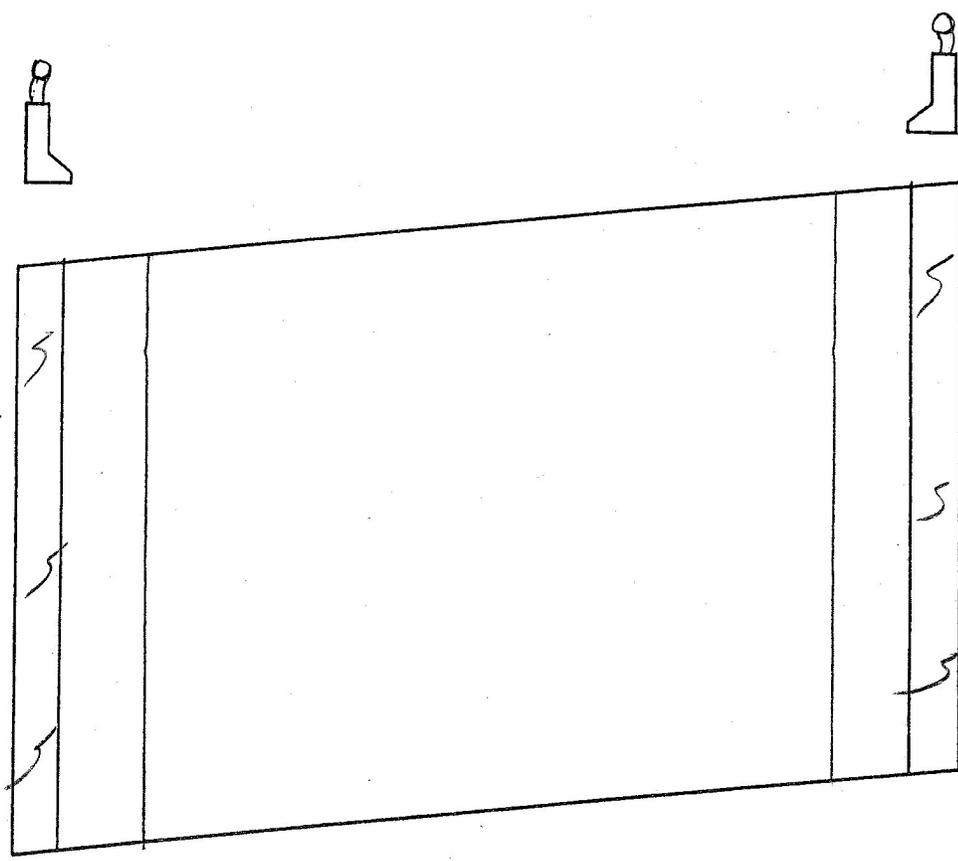
ELEMENT	RATING	COMMENTS
BOTTOM DECK	G(F)P C	(PATCHED AREA, HAIRLINE, FINE CRACKS)
CONC. I BEAM A --- H	G(F)P C G F P C G F P C G F P C G(F)P C	N/A HAIRLINE CRACKS
BACKWALLS	G(F)P C	
DIA.		
FQ	(G)	

MAR 23 2015

79 57 8.09

Bridge No. Co. Route Log Mile R/L Skew

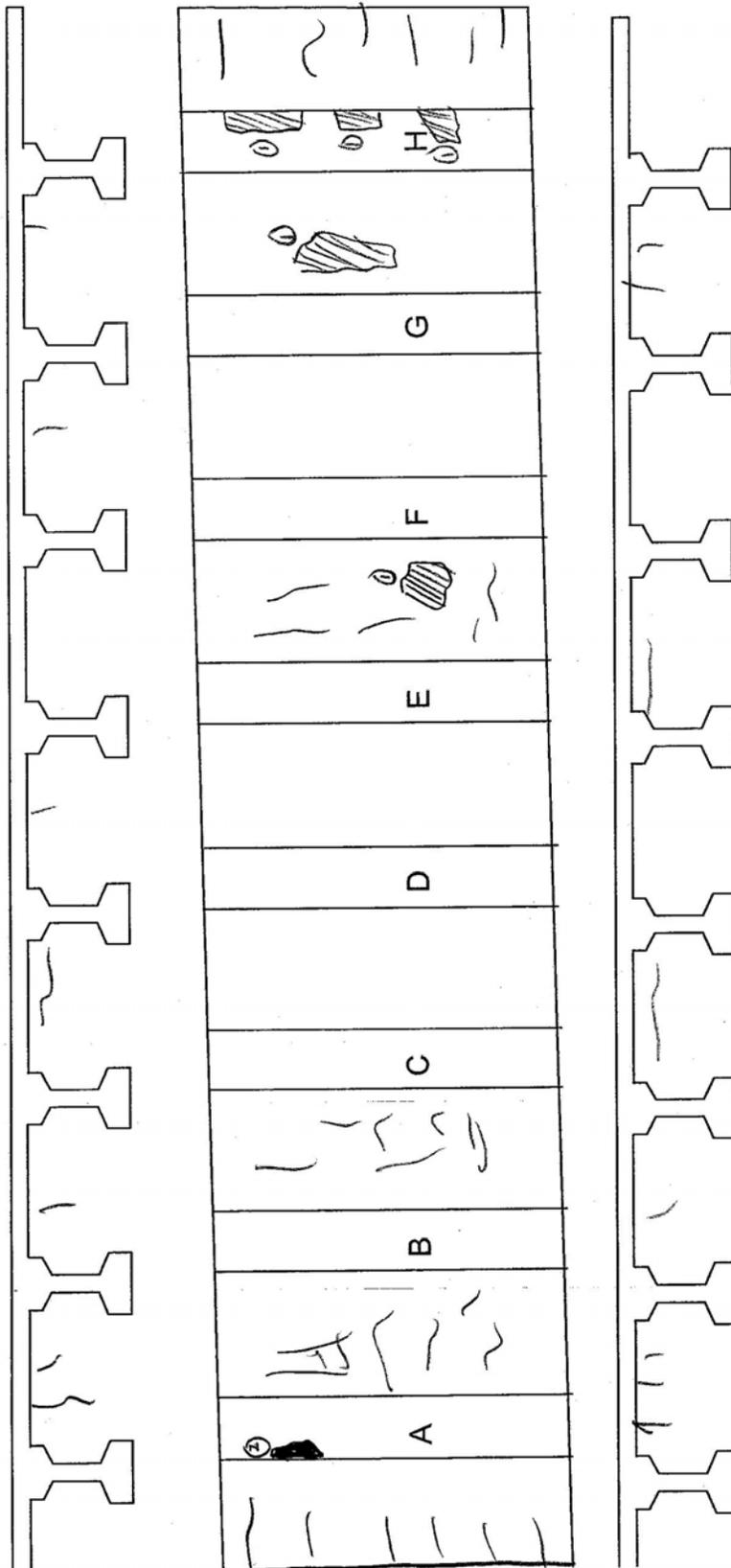
SPAN. NO. 4



ELEMENT	RATING	COMMENT
TOP DECK	G F P C	Traffic Abra
PARAPET	G F P C	fine cracks
DRAINS	G F P C	
JOINTS	G F P C	
Rails	G F P C	
Sidewalk	G F P C	

MAR 23 2015

Bridge No. 79-57-8.09 SKEW RL \_\_\_\_\_ Span No. 4



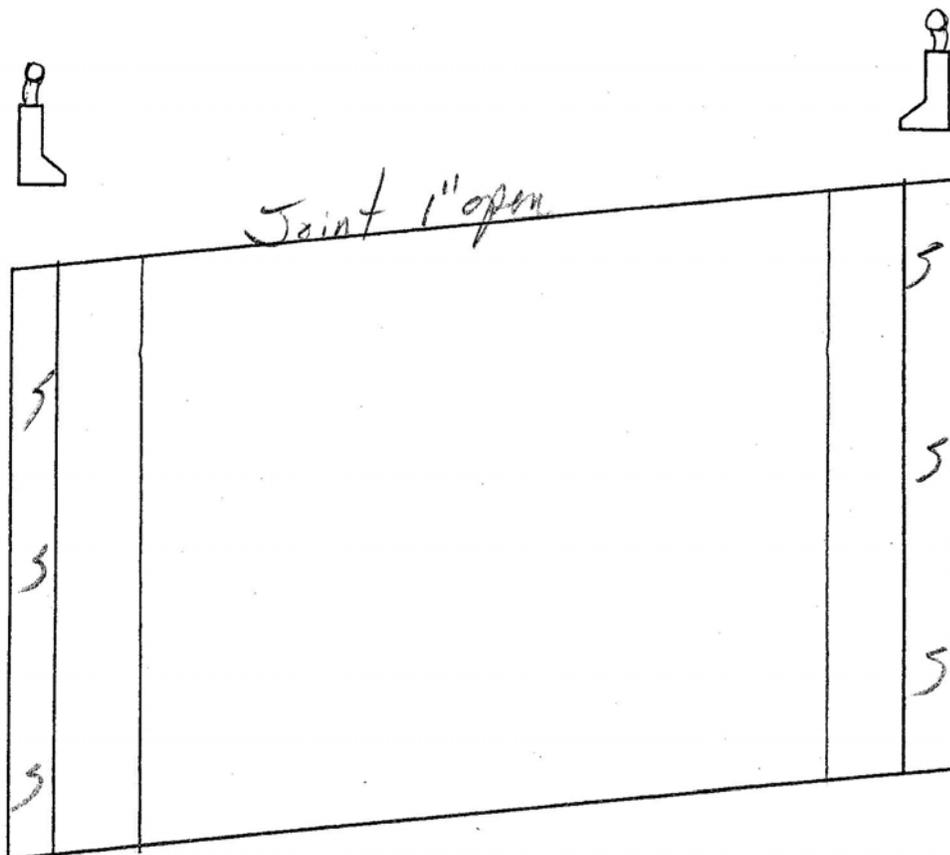
ELEMENT	RATING	COMMENTS
BOTTOM DECK	G(F)P C	HAIRLINE CRACKS, (P) PATCHED AREAS
CONC. I BEAM	G(F)P C	(P) SPALL TO STEEL 2.5' X 1.0' X 1" D
A ---	G(F)P C	N/A
B-H	G(F)P C	HAIRLINE, FINE CRACKS
EQ	G(F)P C	
BACKWALLS	G(F)P C	
DIA.	G(F)P C	

MAR 23 2015

79 57 8.09

Bridge No. Co. Route Log Mile R/L Skew

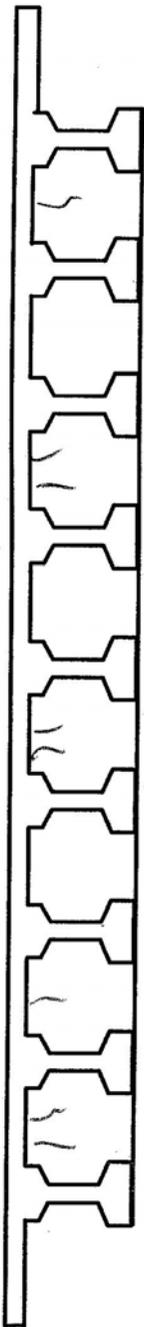
SPAN. NO. 5



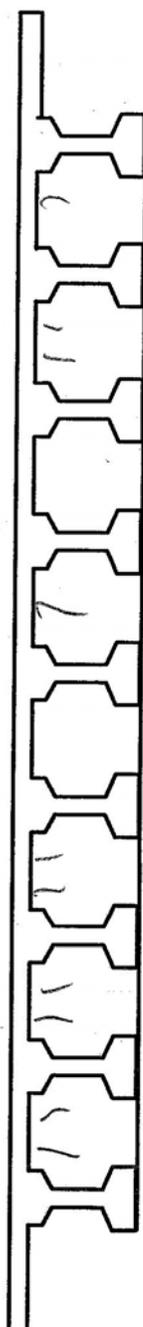
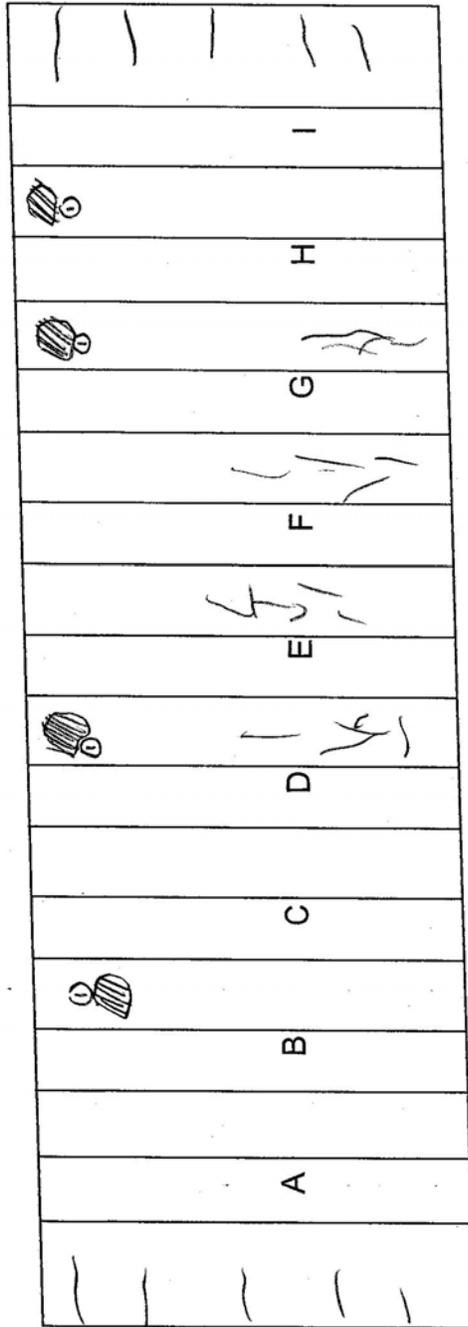
ELEMENT	RATING	COMMENT
TOP DECK	G F P C	Traffic Abra
PARAPET	G F P C	Fine Cracks
DRAINS	G F P C	N/A
JOINTS	G F P C	1" open water torn 40% missing
Rails	G F P C	
Sidewalk	G F P C	

MAR 23 2015

Bridge No. 79-57-8.09 SKEW R/L \_\_\_\_\_ Span No. 5



LOOKING AHEAD



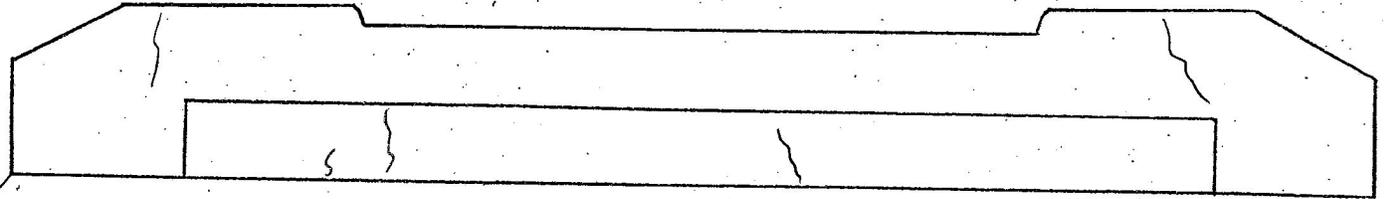
LOOKING BACK

ELEMENT	RATING	COMMENTS
BOTTOM DECK	G (F) P C	PATCHED AREAS, HAIRLINE CRACKS
CONC. I BEAM A --- I	(G) F P C	
EQ	G F P C	HAIRLINE CRACKS
BACKWALLS	(G) (F) P C	HAIRLINE CRACKS
DIA.	G (F) P C	HAIRLINE CRACKS

BR. NO. 79 57 8.09

ABUT. NO. 1

MAR 23 2015



LOOKING BACK

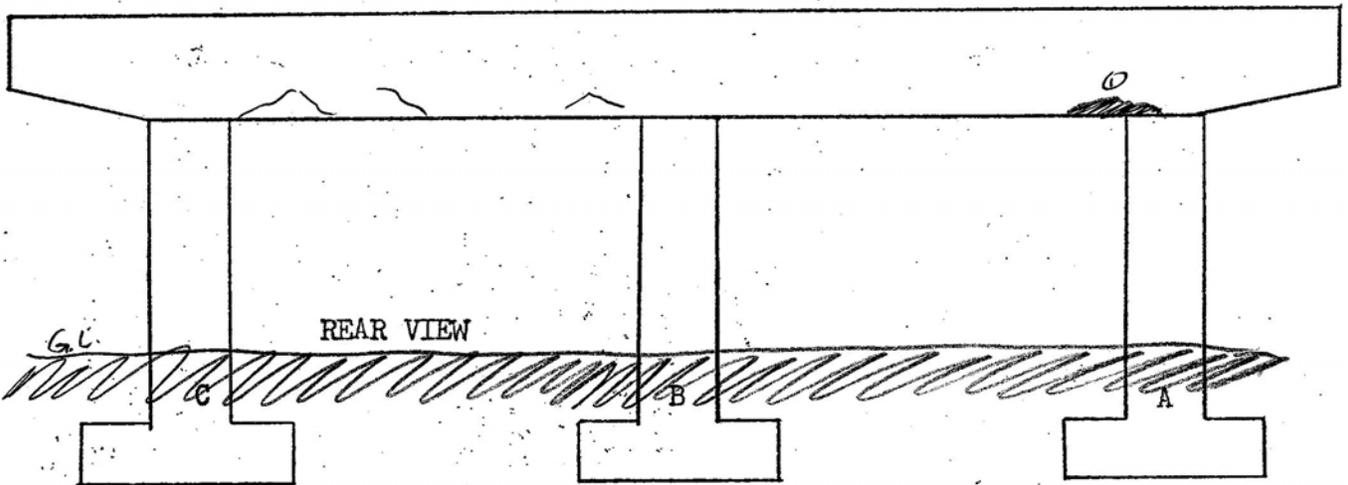
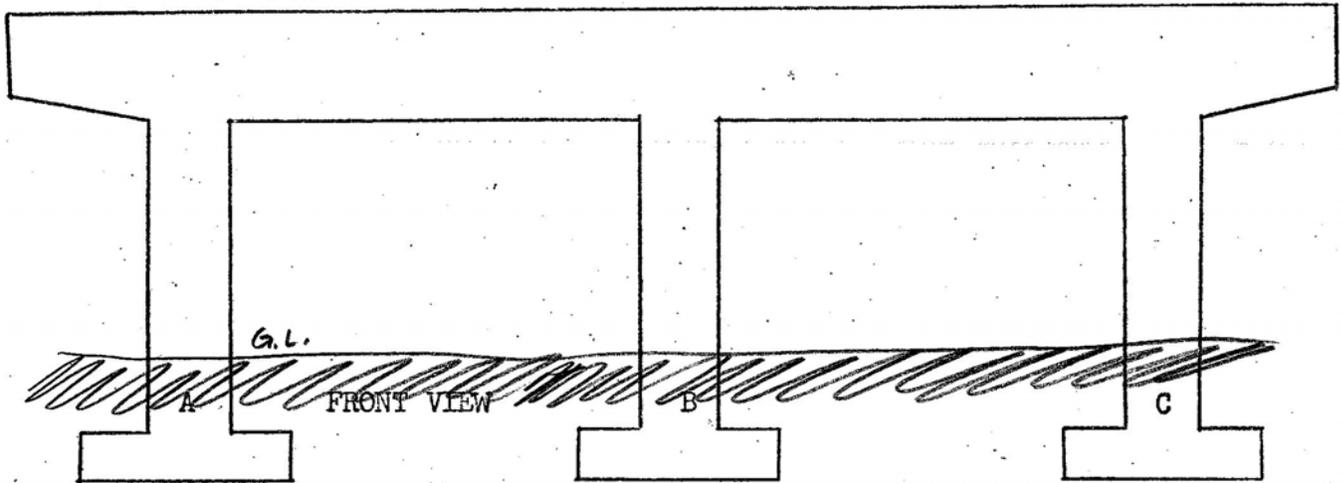
SLOPE PAVEMENT

ELEMENT	RATING	COMMENT
BEARINGS	G F P C	
CAP	G F P C	HAIRLINE CRACKS
PILING	G F P C	N/V
WINGS	G F P C	HAIRLINE CRACKS
VEG.	G F P C	
EMBANKMENT	G F P C	
RIP-RAP	G F P C	N/A
SLOPE PAVING	G F P C	
E.Q.	G F P C	

MAR 23 2015

BR. NO. 79 57 8,09

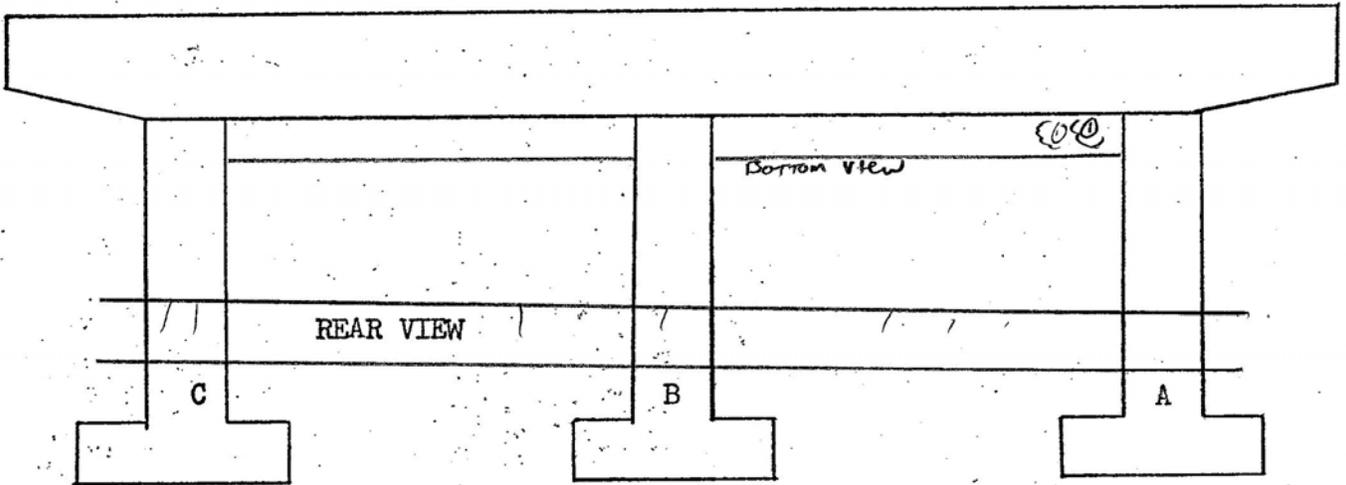
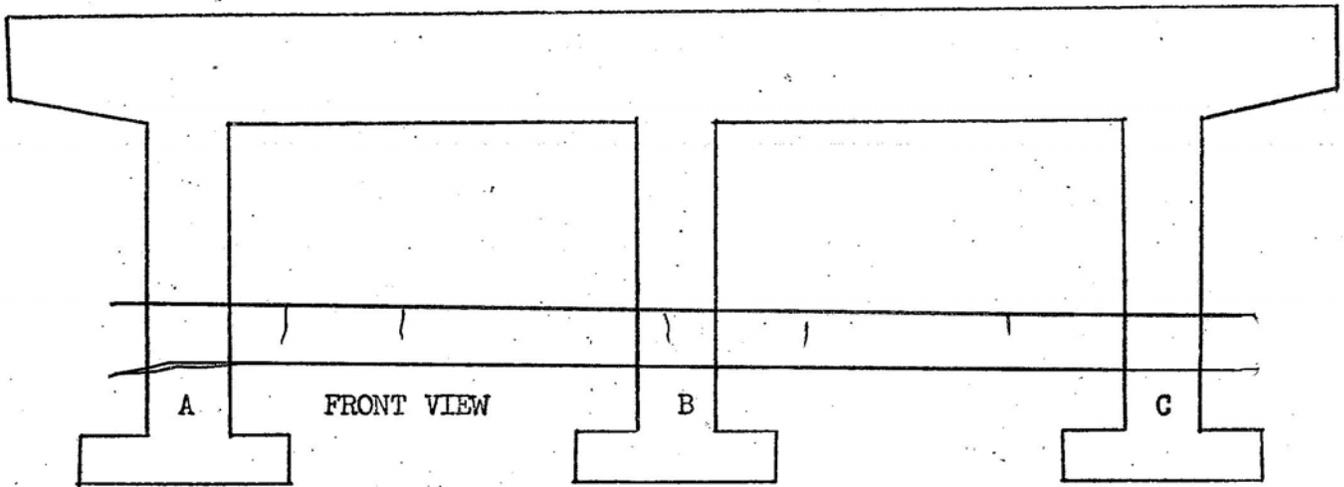
BENT NO. 1



ELEMENT	RATING	COMMENT
BEARINGS	ⓐ F P C	
COLUMNS	A ⓐ F P C B ⓐ F P C C ⓐ F P C	
CAP	G ⓐ F P C	ⓐ SPALL TO STEEL 4.0' W X 6.0" H X 3.0" D HAIRLINE CRACKS
E.Q.	ⓐ F P C	

BR. NO. 99 57 0.09

BENT NO. 2

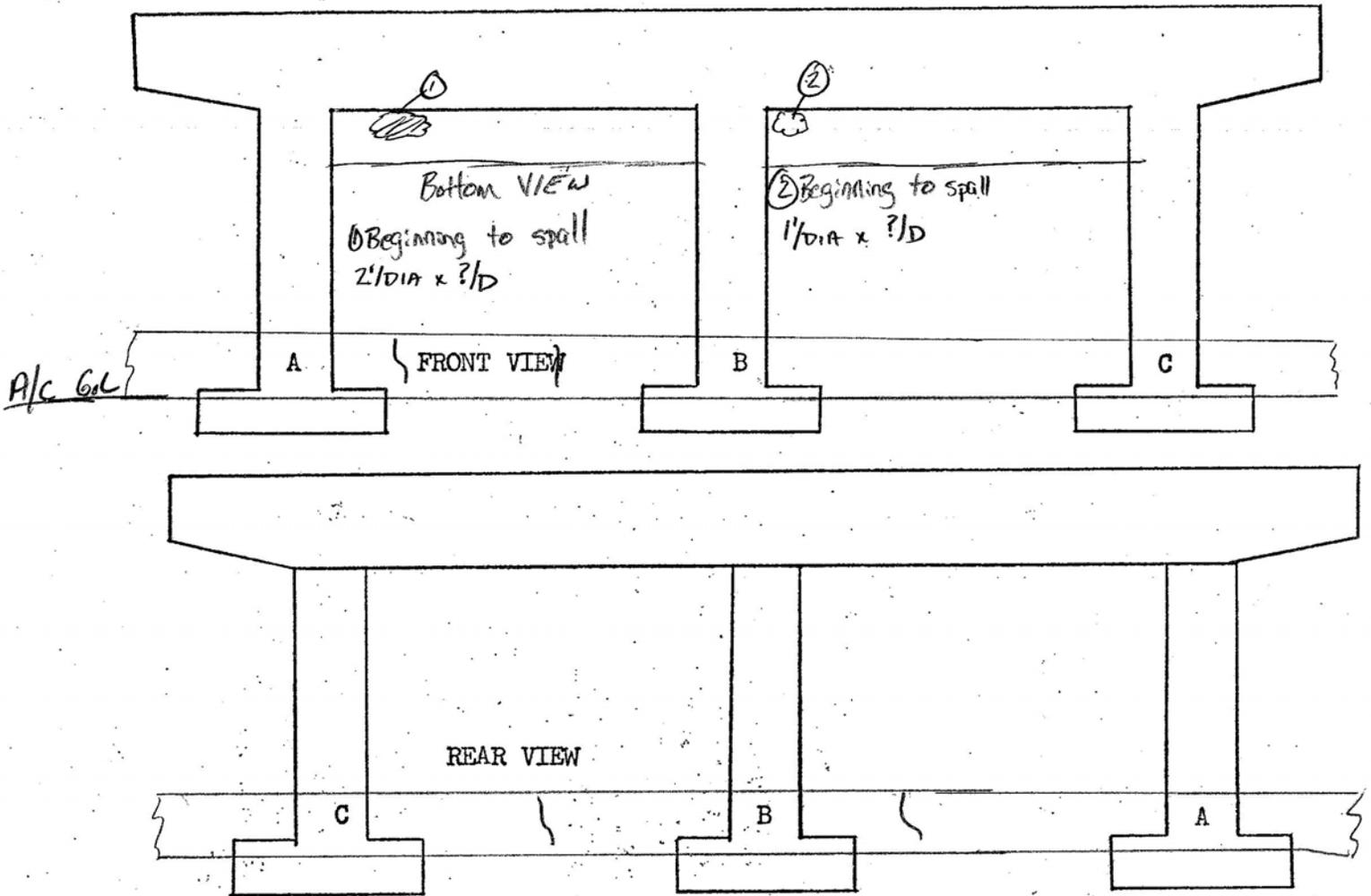


ELEMENT	RATING	COMMENT
BEARINGS	G F P C	
COLUMNS	A G F P C B G F P C C G F P C	
CAP	G F P C	READY TO SPALL 1.0' DIA X ? D
E. Q.	G F P C	
PARAPET	E	HAIRLINE, FINE CRACKS

MAR 23 2015

BR. NO. 79 57 8.09

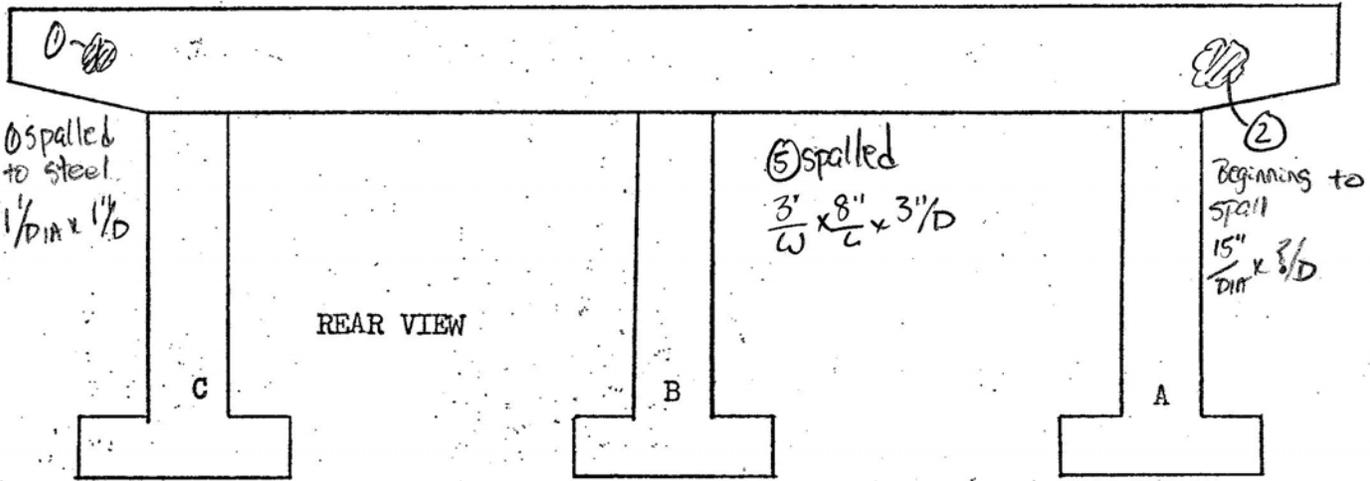
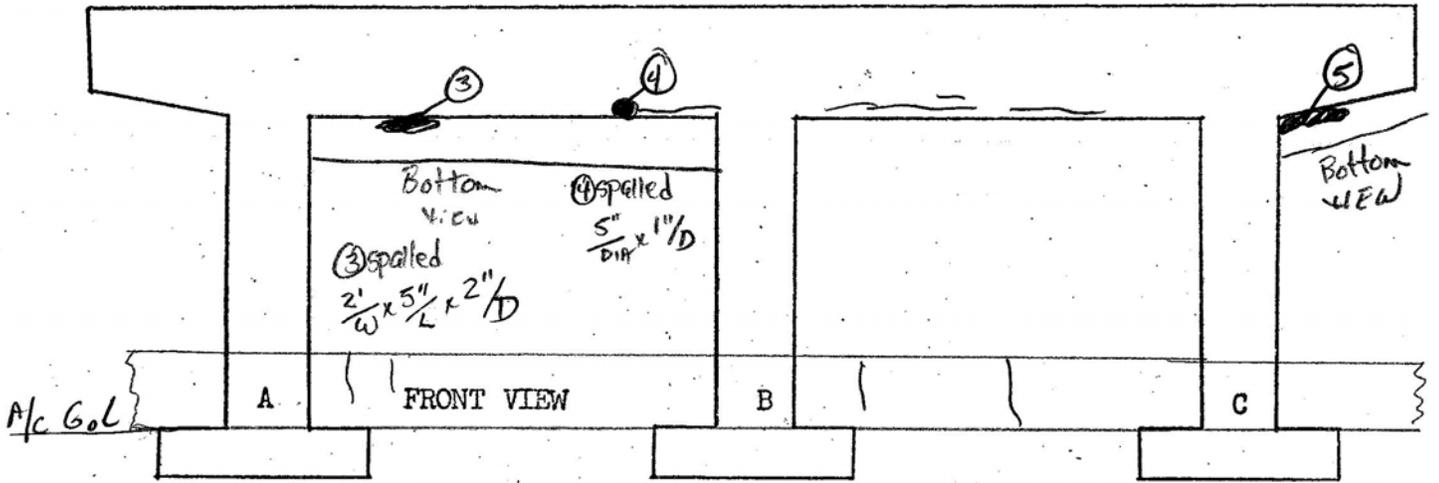
BENT NO. 3



ELEMENT	RATING	COMMENT
BEARINGS	ⓐ F P C	
COLUMNS	ⓐ F P C	
	ⓐ F P C	
	ⓐ F P C	
CAP	ⓐ F P C	see ① & ②
E.Q.	ⓐ F P C	
PARAPET	ⓐ F P C	Fine Cracks

BR. NO. 79 57 8.09

MAR 23 2015  
BENT NO. 7

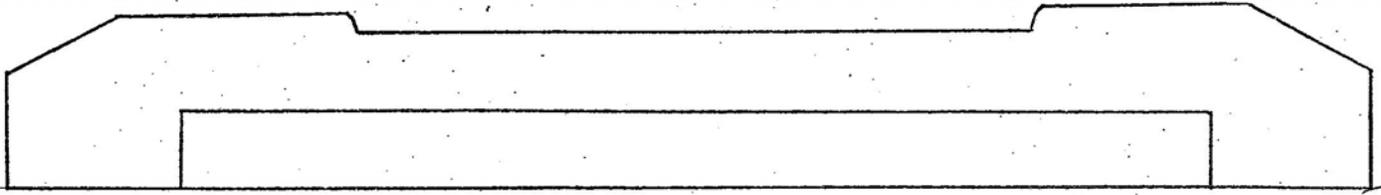


ELEMENT	RATING	COMMENT
BEARINGS	G F P C	Pads
COLUMNS	A G F P C	see ①, ②, ③, ④ ⑤ + fine cracks
	B G F P C	
	C G F P C	
CAP	G F P C	
E. Q.	G F P C	
Parapet	G F P C	fine cracks

BR. NO. 79 57 8.09

ABUT. NO. 2

MAR 23 2015



LOOKING BACK

RET. WALL

BREASTWALL

ELEMENT	RATING	COMMENT
BEARINGS	Ⓒ F P C	
CAP	Ⓒ F P C	
PILING	G F P C	N/A
WINGS	Ⓒ F P C	
VEG.	Ⓒ F P C	
EMBANKMENT	Ⓒ F P C	
RIP-RAP	G F P C	N/A
SLOPE PAVING	G F P C	N/A
E.Q.	Ⓒ F P C	
RET. WALL	Ⓒ	



**BRIDGE MAINTENANCE RECOMMENDATIONS**



Tennessee Department  
of Transportation

COUNTY: SHELBY  
LOCATION: 79-I0240-15.73-  
CO. SEQ.: 1 SPEC. CASE: 0  
MILEPOST: 15.43

CROSSING: I-240 MAINLINE  
FED. BRIDGE NO.: 79I02400112  
MAINT. DIST.: 79

REPAIR LIST NO.: N  
DATE ADDED:  
REVISED: 03/23/2015

FACILITY CARRIED:	FAP 57	NUMBER OF MAIN SPANS:	
HIGHWAY SYSTEM:	02-INTERSTATE URBAN	NUMBER OF APPROACH SPANS:	
BRIDGE WIDTH (CURB TO CURB):	N/A FT IN	BRIDGE LENGTH (FT):	285
BRIDGE WIDTH (OUT TO OUT):	N/A FT IN	MAXIMUM SPAN LENGTH (FT):	68
APPROACH ROADWAY (W/SHOULDERS):	166 FT 8 IN	SKEW ANGLE (DEGREES):	N/A
MAINTAINED BY:			
MAIN SPAN MATERIAL:	PRESTRESSED CONCRETE		
MAIN SPAN DESIGN TYPE:	STRINGER/MULTI-BEAM OR GIRDER		
APPROACH SPAN MATERIAL:			
APPROACH SPAN DESIGN TYPE:			
INSPECTION DATE:	03/23/2015	GENERAL CONDITION:	FAIR
EVALUATION DATE:	04/08/2013	STRUCTURALLY DEFICIENT:	
PPRM PIN NUMBER:		SUFFICIENCY RATING:	
H TRUCK RATING @ INV.:	TONS		

**SUGGESTED ROUTINE MAINTENANCE AND COMMENTS**  
SEE BRIDGE NO. 79-SR057-08.09 (79I024001121) FOR RECOMMENDATIONS.

**GENERAL COMMENTS:**



STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

# Underpass Condition Coding Form

Revised 03/24/2015

County: 79

Route: I0240

Special Case: 0

County Sequence: 1

Log Mile: 15.72

Bridge Number: 79I02400112B  
(Includes Item 5A)

Feature Intersected: I-240 RAMP

## CODE ONLY THOSE VALUES WHICH HAVE CHANGED

ITEM #	DESCRIPTION	VALUE	UNDERPASS SAFETY FEATURES
90	LAST INSPECTION DATE	<b>03/23/2015</b>	
	EARLIEST DATE OF NEXT REGULAR INSPECTION	<b>01/21/2017</b>	
		<u> / /</u>	
10	MINIMUM V.C. OVER DECK (ROADWAY + SHOULDERS)	16 FT. 5 IN. <u> FT. IN.</u>	515 (A) TYPE UNDERPASS BARRIER CONCRETE BARRIER OR RAIL
			Revised Barrier Type
520	MINIMUM V.C. OVER DECK (EXCLUDES SHOULDERS)	16 FT. 11 IN. <u> FT. IN.</u>	(B) ADEQUACY OF BARRIER OR RAIL <u>0</u>
47	TOTAL HORIZONTAL UNDERCLEARANCE	42 FT. 3 IN. <u> FT. IN.</u>	(C) ADEQUACY OF TRANSITIONS <u>0</u>
54	MINIMUM VERTICAL UNDERCLEARANCE (EXCLUDES SHOULDERS)		(D) ADEQUACY OF TERMINALS <u>0</u>
	Circle One: H R <u> </u> FT. <u> </u> IN.		
55	MINIMUM LATERAL UNDERCLEARANCE ON RIGHT SIDE		554 VERTICAL CLEARANCE LISTED ON HEIGHT POSTING
	Circle One: H R <u> </u> FT. <u> </u> IN.		<u> </u> FT. <u> </u> IN. <u> </u> FT. <u> </u> IN.
56	MINIMUM LATERAL UNDERCLEARANCE ON LEFT SIDE	<u> </u> FT. <u> </u> IN.	16 LATITUDE <u> </u> 17 LONGITUDE <u> </u>
			N 35° 6.2450' W 89° 52.1883'
521	OVERALL CONDITION	<b>FAIR</b>	HEIGHT POSTED AT BOTH APPROACHES? YES [ ] NO [ ] N/A [ ]
555	COMMENTS	<u> </u>	
		<u> </u>	

TEAM LEADER SIGNATURE

/ /  
REVIEW DATE

**BRIDGE MAINTENANCE RECOMMENDATIONS**



Tennessee Department  
of Transportation

COUNTY: SHELBY

LOCATION: 79-I0240-15.72-

CO. SEQ.: 1 SPEC. CASE: 0

MILEPOST: 15.42

CROSSING: I-240 RAMP

FED. BRIDGE NO.: 79I02400112

MAINT. DIST.: 79

REPAIR LIST NO.: N

DATE ADDED:

REVISED: 03/23/2015

FACILITY CARRIED:	FAU 57	NUMBER OF MAIN SPANS:	
HIGHWAY SYSTEM:	02-INTERSTATE URBAN	NUMBER OF APPROACH SPANS:	
BRIDGE WIDTH (CURB TO CURB):	N/A FT IN	BRIDGE LENGTH (FT):	285
BRIDGE WIDTH (OUT TO OUT):	N/A FT IN	MAXIMUM SPAN LENGTH (FT):	68
APPROACH ROADWAY (W/SHOULDERS):	39 FT 4 IN	SKEW ANGLE (DEGREES):	N/A
MAINTAINED BY:			
MAIN SPAN MATERIAL:	PRESTRESSED CONCRETE		
MAIN SPAN DESIGN TYPE:	STRINGER/MULTI-BEAM OR GIRDER		
APPROACH SPAN MATERIAL:			
APPROACH SPAN DESIGN TYPE:			
INSPECTION DATE:	03/23/2015	GENERAL CONDITION:	FAIR
EVALUATION DATE:	04/08/2013	STRUCTURALLY DEFICIENT:	
PPRM PIN NUMBER:		SUFFICIENCY RATING:	
H TRUCK RATING @ INV.:	TONS		

**SUGGESTED ROUTINE MAINTENANCE AND COMMENTS**

SEE BRIDGE NO. 79-SR057-08.09 (79I024001121) FOR RECOMMENDATIONS.

**GENERAL COMMENTS:**

**INSPECTION REPORT FOR UNDERPASS ROUTE**

Form BIR 3.0A  
(Rev. 9-22-98)  
DT-1443

Field Report No. \_\_\_\_\_ Date \_\_\_\_\_  
Previous Report No. \_\_\_\_\_ Date \_\_\_\_\_

Bridge No. 79I02400112  
Eleven Digit No.

Underpass Location No. 79 - SR057 - 0809 -  
Co. Route Log Mile

\_\_\_\_\_  
Railroad/Walkway

or \_\_\_\_\_ over/  
\_\_\_\_\_ under  
Co. Route Log Mile

79 - I0240 - 1559  
Co. Route Log Mile

County Shelby

Structure Name (If Named) \_\_\_\_\_

Year Constructed \_\_\_\_\_

Year Widened \_\_\_\_\_

Year Rehabilitated \_\_\_\_\_

**GEOMETRIC FEATURES UNDER BRIDGE** (\*. \* ft. unless otherwise noted) Ramp (1)

Divided Highway LEFT RDWY ( ) RIGHT RDWY ( ) N.A. ( )

Type of Wearing Surface CONCRETE ( ) ASPHALT (X) GRAVEL ( )

Width of Approach Traveled Roadway 16 ft. (Does Not Include Shoulders)

Width of Median if Divided Highway \_\_\_\_\_ ft.

Approach Shoulder Width 15 ft. Right 9 ft. Left

\*Horizontal Clearance Under Bridge 43 ft. 3" in.

\*Distance Between Pier Protection Guardrail and Substructure 3.3 ft. Right 18' ft. Left

\*Width of Sidewalk Under Bridge \_\_\_\_\_ ft. Right \_\_\_\_\_ ft. Left

\*Minimum Vertical Clearance: 16 ft. 5 in.

\*Show on Sketch

**TRAFFIC SAFETY FEATURES FOR UNDERPASS ROUTE**

		STANDARD	SUB-STANDARD	NON EXIST
Pier Protection Railing or Parapet	(G) F P C ( )	( )	(X)	( )
Approach Guardrail Transitions	(G) F P C ( )	( )	(X)	( )
Approach Guardrail	(G) (F) P C ( )	( )	(X)	( )
Approach Guardrail Terminal	(G) F P C ( )	( )	(X)	( )

**SIGNING FOR UNDERPASS ROUTE**

Paddleboards 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 ( )  
Other Underpass Signs Needed \_\_\_\_\_

**INSPECTORS**

1. Ellison
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_

**INSPECTION REPORT FOR UNDERPASS ROUTE**

Form BIR 3.0A  
(Rev. 9-22-98)  
DT-1443

Field Report No. \_\_\_\_\_ Date \_\_\_\_\_  
Previous Report No. \_\_\_\_\_ Date \_\_\_\_\_

Bridge No. 79I02400112  
Eleven Digit No.

Underpass Location No. 79 - SR057 - 0809 -

\_\_\_\_\_  
Railroad/Walkway

or \_\_\_\_\_  
Co. Route Log Mile

over/  
under  
Co. Route Log Mile  
79 - I0240 - 1559

County Shelby

Structure Name (If Named) \_\_\_\_\_

Year Constructed \_\_\_\_\_

Year Widened \_\_\_\_\_

Year Rehabilitated \_\_\_\_\_

**GEOMETRIC FEATURES UNDER BRIDGE** (\*. \* ft. unless otherwise noted)

Divided Highway LEFT RDWY () RIGHT RDWY ( ) N.A. ( ) (2)

Type of Wearing Surface CONCRETE ( ) ASPHALT () GRAVEL ( )

Width of Approach Traveled Roadway 46 ~~52~~ ft. (Does Not Include Shoulders)

Width of Median if Divided Highway 26 ft.

Approach Shoulder Width 14 ft. Right 12 ft. Left

\*Horizontal Clearance Under Bridge 59 ~~52~~ ft. 0 IN.

\*Distance Between Pier Protection Guardrail and Substructure 0.5 ft. Right 0.5 ft. Left

\*Width of Sidewalk Under Bridge \_\_\_\_\_ ft. Right \_\_\_\_\_ ft. Left

\*Minimum Vertical Clearance: 18 ft. 1 in.

\*Show on Sketch

**TRAFFIC SAFETY FEATURES FOR UNDERPASS ROUTE**

		STANDARD	SUB-STANDARD	NON EXIST
Pier Protection Railing or Parapet	G (F) P C	(X)	( )	( )
Approach Guardrail Transitions	G F P C	( )	( )	(X)
Approach <del>Guardrail</del> Parapet	G (F) P C	(X)	( )	( )
Approach Guardrail Terminal	G F P C	( )	( )	(X)

**SIGNING FOR UNDERPASS ROUTE**

Paddleboards 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 ( )  
Other Underpass Signs Needed \_\_\_\_\_

**INSPECTORS**

1. Ellison
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_

**INSPECTION REPORT FOR UNDERPASS ROUTE**

Form BIR 3.0A  
(Rev. 9-22-98)  
DT-1443

Field Report No. \_\_\_\_\_ Date \_\_\_\_\_  
Previous Report No. \_\_\_\_\_ Date \_\_\_\_\_

Bridge No. 79I02400112  
Eleven Digit No.

Underpass Location No. 79 - SR057 - 0809 -

_____	or	_____	over/ under	_____	Co.	Route	Log Mile
Railroad/Walkway		Co.		79	- I0240	- 1559	

County Shelby

Structure Name (If Named) \_\_\_\_\_

Year Constructed \_\_\_\_\_

Year Widened \_\_\_\_\_ Year Rehabilitated \_\_\_\_\_

**GEOMETRIC FEATURES UNDER BRIDGE** (\*. \* ft. unless otherwise noted)

Divided Highway LEFT RDWY ( ) RIGHT RDWY (X) N.A. ( ) (3)

Type of Wearing Surface CONCRETE ( ) ASPHALT (X) GRAVEL ( )

Width of Approach Traveled Roadway 36 ft. (Does Not Include Shoulders)

Width of Median if Divided Highway 26 ft.

Approach Shoulder Width 15 ft. Right 10 ft. Left

\*Horizontal Clearance Under Bridge 61 ft. 0 IN.

\*Distance Between Pier Protection Guardrail and Substructure .5 ft. Right .5 ft. Left

\*Width of Sidewalk Under Bridge \_\_\_\_\_ ft. Right \_\_\_\_\_ ft. Left

\*Minimum Vertical Clearance: 16 ft. 2 in.

\*Show on Sketch

**TRAFFIC SAFETY FEATURES FOR UNDERPASS ROUTE**

		STANDARD	SUB-STANDARD	NON EXIST
Pier Protection Railing or Parapet	G (F) P C	(X)	( )	( )
Approach Guardrail Transitions	G F P C	( )	( )	(X)
Approach Guardrail	G (F) P C	(X)	( )	( )
Approach Guardrail Terminal	G F P C	( )	( )	(X)

**SIGNING FOR UNDERPASS ROUTE**

Paddleboards 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 ( )  
Other Underpass Signs Needed \_\_\_\_\_

**INSPECTORS**

1. Ellison
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_

**INSPECTION REPORT FOR UNDERPASS ROUTE**

Form BIR 3.0A  
(Rev. 9-22-98)  
DT-1443

Field Report No. \_\_\_\_\_ Date \_\_\_\_\_  
Previous Report No. \_\_\_\_\_ Date \_\_\_\_\_

Bridge No. \_\_\_\_\_ Over/Under \_\_\_\_\_  
Eleven Digit No. 79-57-809 Co. Route Log Mile Co. Route Log Mile  
or \_\_\_\_\_ or \_\_\_\_\_  
Railroad/Walkway Co. Route Log Mile Co. Route Log Mile

County \_\_\_\_\_ Road Name: \_\_\_\_\_  
Year Constructed \_\_\_\_\_ Structure Name (If Named) \_\_\_\_\_  
Year Widened \_\_\_\_\_ Year Rehabilitated \_\_\_\_\_

**GEOMETRIC FEATURES UNDER BRIDGE** (\*.ft. unless otherwise noted) (4) Ramp

Divided Highway LEFT RDWY ( ) RIGHT RDWY ( ) N.A. (X)  
Type of Wearing Surface CONCRETE ( ) ASPHALT (X) GRAVEL ( )  
Width of Approach Traveled Roadway 12 ft. (Does Not Include Shoulders)  
Width of Median if Divided Highway \_\_\_\_\_ ft.  
Approach Shoulder Width 12 ft. Right 4 ft. Left  
\*Horizontal Clearance Under Bridge 23 ft. \_\_\_\_\_ in.  
\*Distance Between Pier Protection Guardrail and Substructure 1.5 ft. Right 0.5 ft. Left  
\*Width of Sidewalk Under Bridge \_\_\_\_\_ ft. Right \_\_\_\_\_ ft. Left  
\*Minimum Vertical Clearance: 16 ft. 9 in.  
\*Show on Sketch

**TRAFFIC SAFETY FEATURES FOR UNDERPASS ROUTE**

		STANDARD	SUB-STANDARD	NON EXIST
Pier Protection Railing or Parapet	G (F) P C	(X)	( )	( )
Approach Guardrail Transitions	(G) F P C	(X)	( )	( )
Approach Guardrail / Parapet	(G) F P C	(X)	( )	( )
Approach Guardrail Terminal	(G) F P C	(X)	( )	( )

**SIGNING FOR UNDERPASS ROUTE**

Paddleboards 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 ( )  
Other Underpass Signs Needed \_\_\_\_\_

**INSPECTORS**

- Ellison
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

Form BIR 3.0A (Continued)  
(Rev. 9-22-98)  
DT-1443

79 - 57 - 8.09  
Co. Route Log Mile

Page No. \_\_\_\_\_

Date \_\_\_\_\_

Underpass Location No. 79 - I-240 - 15.59  
Co. Route Log Mile

Other Signs or Plaques: \_\_\_\_\_

Comments Regarding any Problems with Signing: \_\_\_\_\_

**BRIDGE FEATURES** (\*. \* ft.)

Bridge Skew 90 °  
Structure Type (Main Span) C.I.B No. Main Spans 5  
Structure Type (Appr.Spans) \_\_\_\_\_ No. Appr. Spans \_\_\_\_\_  
Maximum Span Length 75.5' (ft.) Total Length 294.5 (ft.)  
Width of Bridge Out-to-Out 54.5 (ft.) Right Angle to Centerline of Bridge  
Width of Bridge Along Skew \_\_\_\_\_ (ft.) (If Unable to Measure at Right  
Number of Lanes/Tracks on Bridge 4 Angle to Centerline of Bridge)

**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 or Failure of Major Member YES ( ) NO (X)

Comment on any Conditions of Bridge that would Effect Roadway Beneath:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Note: If Underpass Route is Divided Highway, Use Two of These Forms, One for Each Roadway.

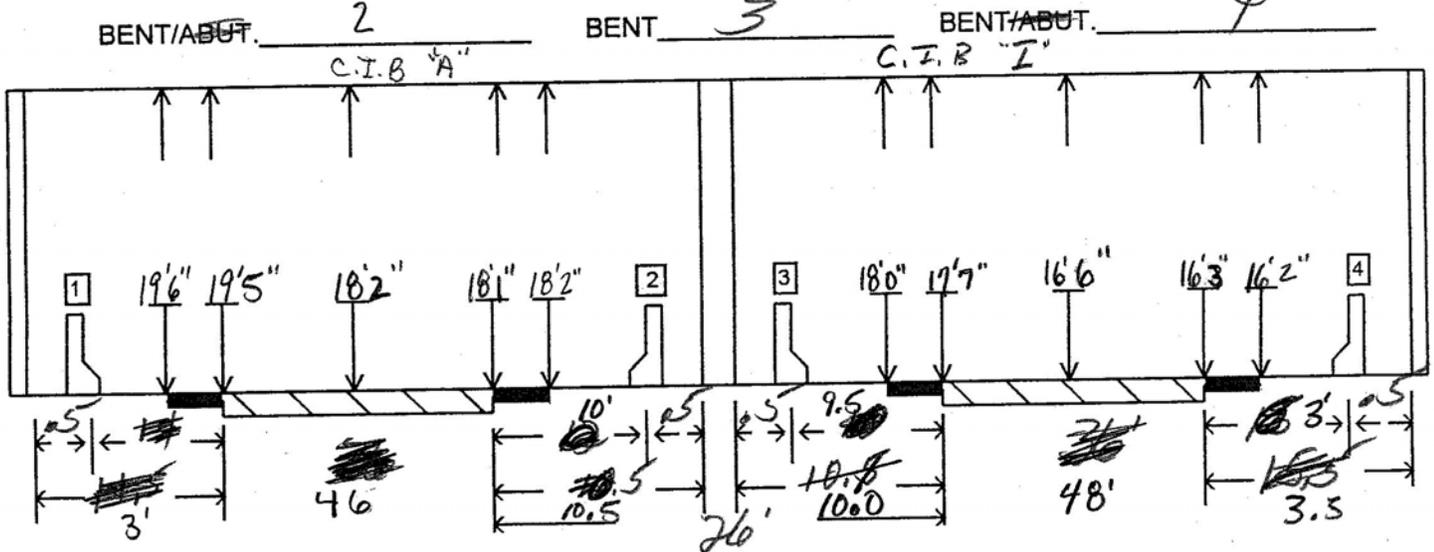
**MINIMUM PICTURES REQUIRED**

- 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

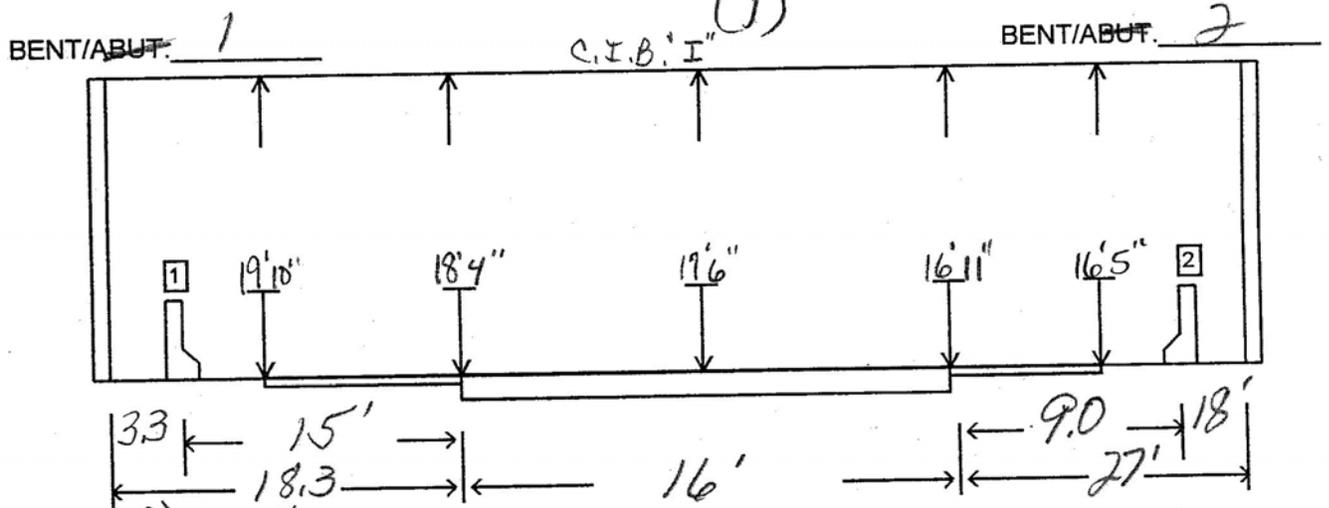
LT (2)

LATERAL AND VERTICAL CLEARANCES

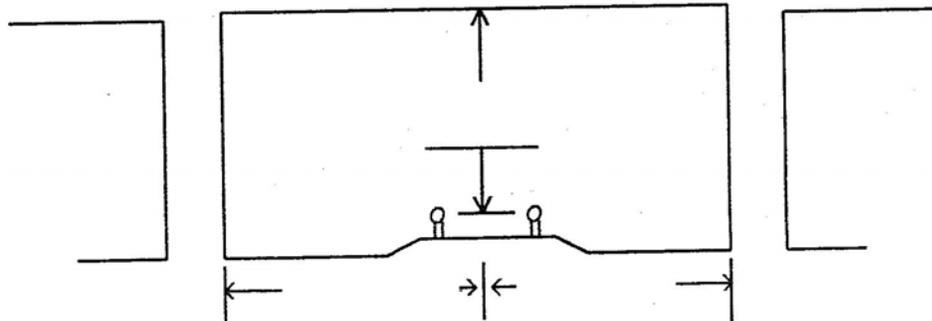
RT (3)  
 4



- |                       |             |                   |          |
|-----------------------|-------------|-------------------|----------|
| 1. RAIL/BARRIER TYPE: | W-SHAPE [ ] | CONC. BARRIER [X] | NONE [ ] |
| 2. RAIL/BARRIER TYPE: | W-SHAPE [ ] | CONC. BARRIER [X] | NONE [ ] |
| 3. RAIL/BARRIER TYPE: | W-SHAPE [ ] | CONC. BARRIER [X] | NONE [ ] |
| 4. RAIL/BARRIER TYPE: | W-SHAPE [ ] | CONC. BARRIER [X] | NONE [ ] |



- (1) - W-shape  
 (2) - Conc BARRIER



BIR 3.10  
 Rev. 06/22/0  
 ET-1510

MAR 23 2015

BRIDGE LOC. NO. \_\_\_\_\_

DATE: \_\_\_\_\_

CO. ROUTE L. M. L/R  
LATERAL AND VERTICAL CLEARANCES

or \_\_\_\_\_  
 Co. Route Log Mile

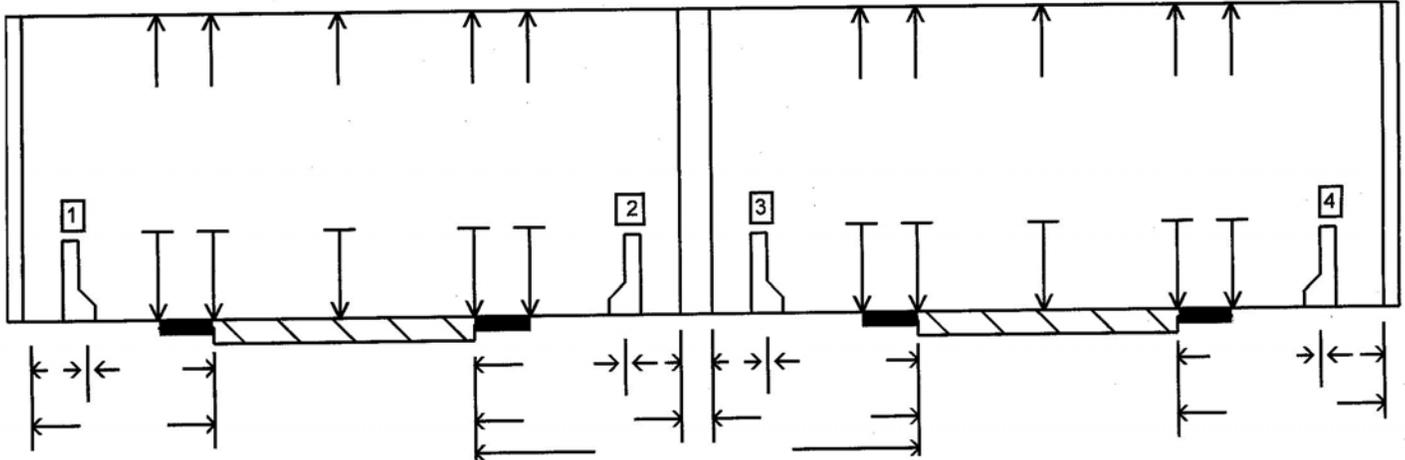
or \_\_\_\_\_  
 Co. Route Log Mile

or \_\_\_\_\_  
 Co. Route Log Mile

BENT/ABUT. \_\_\_\_\_

BENT \_\_\_\_\_

BENT/ABUT. \_\_\_\_\_

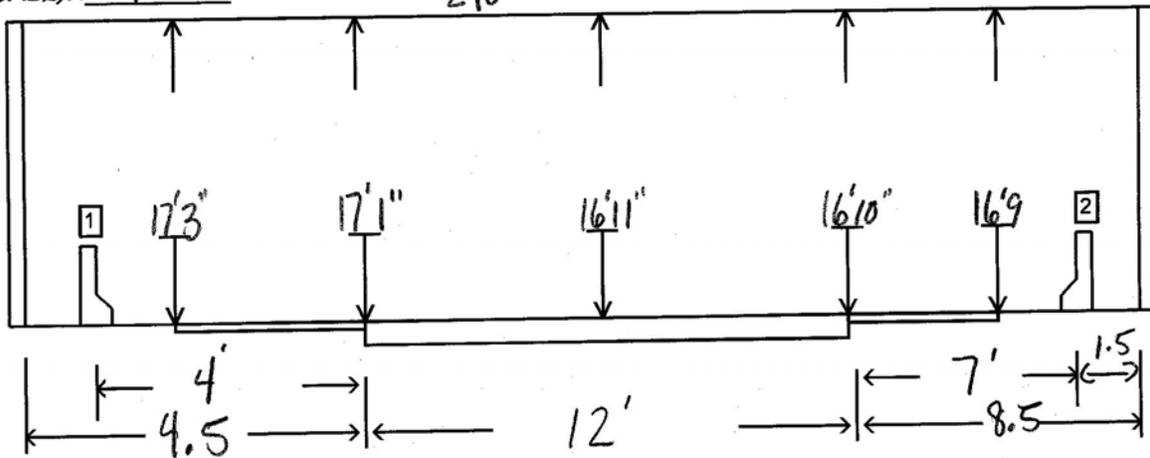


- |                       |             |                   |          |
|-----------------------|-------------|-------------------|----------|
| 1. RAIL/BARRIER TYPE: | W-SHAPE [ ] | CONC. BARRIER [ ] | NONE [ ] |
| 2. RAIL/BARRIER TYPE: | W-SHAPE [ ] | CONC. BARRIER [ ] | NONE [ ] |
| 3. RAIL/BARRIER TYPE: | W-SHAPE [ ] | CONC. BARRIER [ ] | NONE [ ] |
| 4. RAIL/BARRIER TYPE: | W-SHAPE [ ] | CONC. BARRIER [ ] | NONE [ ] |

BENT/ABUT. 4

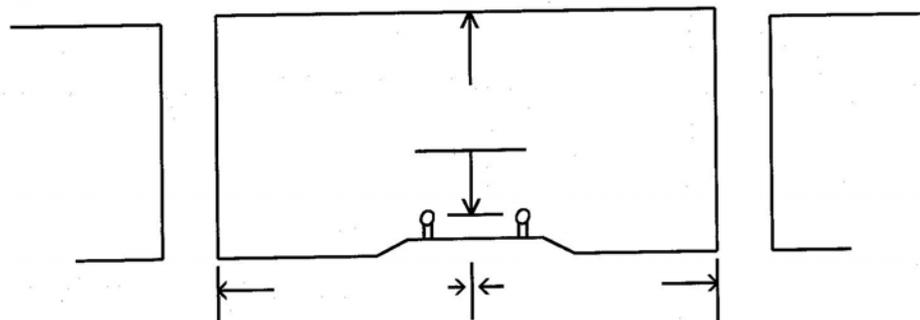
Ramp From (4)  
 Poplars north on  
 240

BENT/ABUT. 2



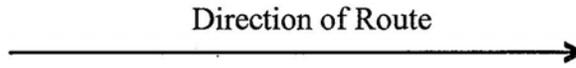
BENT/ABUT. \_\_\_\_\_

BENT/ABUT. \_\_\_\_\_

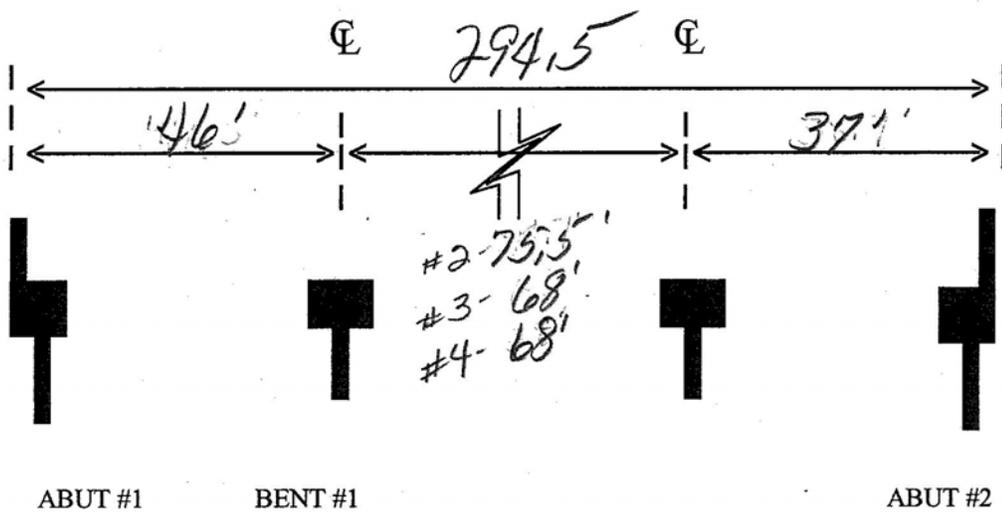


MAR 23 2015

79I02400112   79 SR057   0809                SKEW:   90  
BRIDGE NO.:   CO. ROUTE   L.M.   L/R



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



SIDE OF BRIDGE