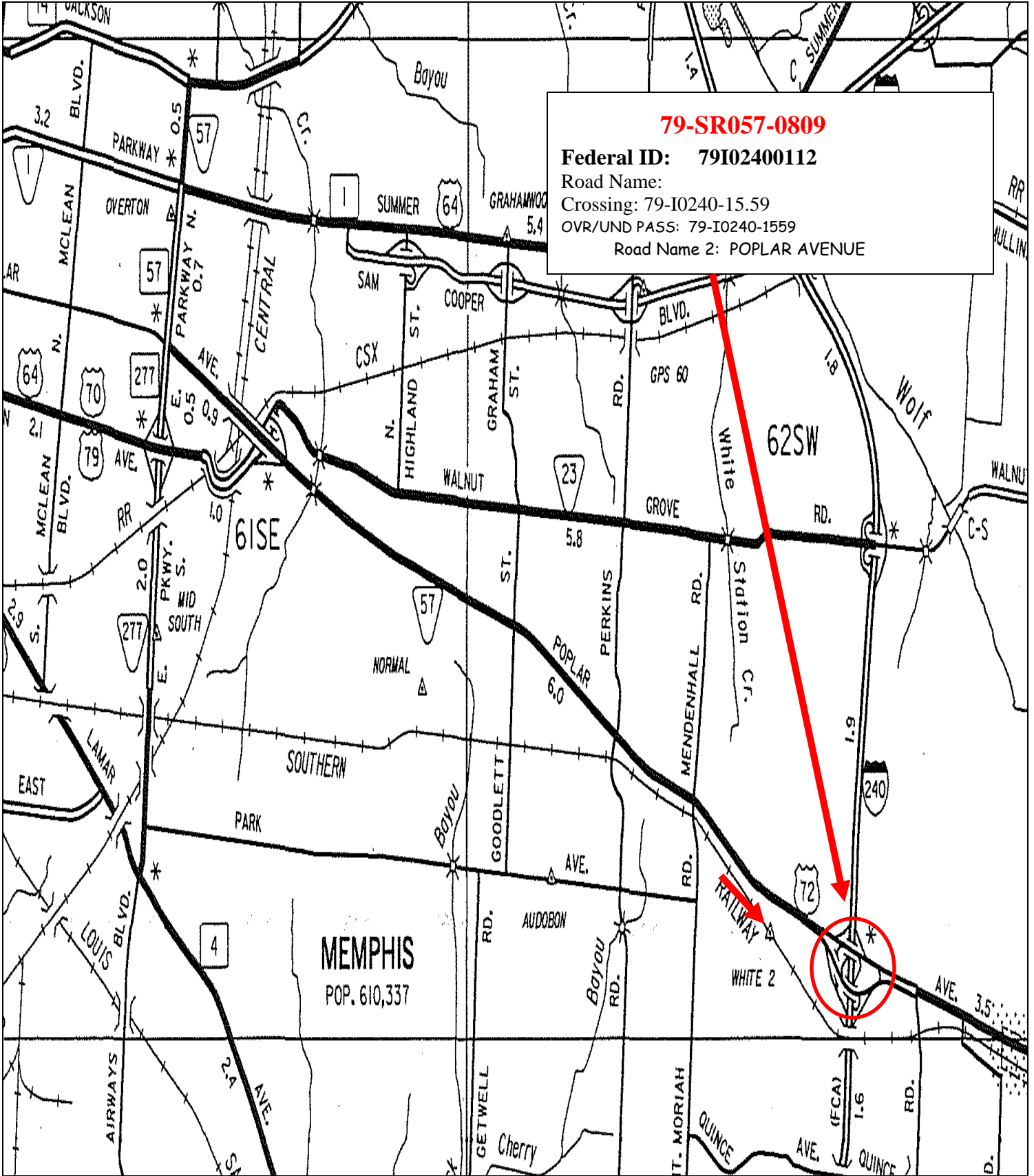


SHELBY COUNTY



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: I240 & I240 EXIT RAMP
FED. BRIDGE NO.: 79I02400112
MAINT. DIST.: 79

REPAIR LIST NO.: 2
DATE ADDED: 10/05/1994
REVISED: 03/04/2013

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:	03/04/2013	GENERAL CONDITION:	POOR
EVALUATION DATE:	04/19/2011	STRUCTURALLY DEFICIENT:	YES
PPRM PIN NUMBER:		SUFFICIENCY RATING:	62.7
H TRUCK RATING @ INV.:	20 TONS		

SUGGESTED ROUTINE MAINTENANCE AND COMMENTS
REPAIR CONCRETE BEAM "C & D" SPAN NO.5
PATCH BOTTOM OF DECK IN SPAN NO.3
CLEAN AND SEAL ROADWAY EXPANSION JOINTS.
REPAIR SIDEWALK AT APPROACH NO.1 RT & LT & 2 RT & LT
UNDERPASS SUBSTRUCTURE PROTECTION GUARDRAILS ARE SUBSTANDARD

GENERAL COMMENTS:
03-04-2013 I-240 MAINLINE OF UNDERPASS IS UNDER CONSTRUCTION. SPAN # 1, 2, & 3 LIGHTING COVER PLATE MISSING.



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

Bridge Condition Coding Form

Revised 03/05/2013

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 (Values for Coding Items 58, 59, 60 and 62)
90	LAST INSPECTION DATE	<input type="text" value="03/04/2013"/>	N NOT APPLICABLE 9 EXCELLENT CONDITION 8 VERY GOOD CONDITION - NO PROBLEMS NOTED. 7 GOOD CONDITION - SOME MINOR PROBLEMS. 6 SATISFACTORY CONDITION - MINOR DETERIORATION OF STRUCTURAL ELEMENTS. 5 FAIR CONDITION - ALL PRIMARY STRUCTURAL ELEMENTS ARE SOUND BUT MAY HAVE MINOR SECTION LOSS, CRACKING, SPALLING OR SCOUR. 4 POOR CONDITION - ADVANCED SECTION LOSS, DETERIORATION, SPALLING OR SCOUR. 3 SERIOUS CONDITION - LOSS OF SECTION, DETERIORATION, SPALLING OR SCOUR HAVE SERIOUSLY AFFECTED PRIMARY STRUCTURAL COMPONENTS. LOCAL FAILURES ARE POSSIBLE. FATIGUE CRACKS IN STEEL OR SHEAR CRACKS IN CONCRETE MAY BE PRESENT. 2 CRITICAL CONDITION - ADVANCED DETERIORATION OF PRIMARY STRUCTURAL ELEMENTS. FATIGUE CRACKS IN STEEL OR SHEAR CRACKS IN CONCRETE MAY BE PRESENT OR SCOUR MAY HAVE REMOVED SUBSTRUCTURE SUPPORT. UNLESS CLOSELY MONITORED IT MAY BE NECESSARY TO CLOSE THE BRIDGE UNTIL CORRECTIVE ACTION IS TAKEN. 1 "IMMINENT" FAILURE CONDITION - MAJOR DETERIORATION OR SECTION LOSS PRESENT IN CRITICAL STRUCTURAL COMPONENTS OR OBVIOUS VERTICAL OR HORIZONTAL MOVEMENT AFFECTING STRUCTURAL STABILITY. BRIDGE IS CLOSED TO TRAFFIC BUT CORRECTIVE ACTION MAY PUT IT BACK IN LIGHT SERVICE. 0 FAILED CONDITION - OUT OF SERVICE AND BEYOND CORRECTIVE ACTION.
	EARLIEST DATE OF NEXT REGULAR INSPECTION	<input type="text" value="01/03/2015"/>	
		<input type="text" value="/ /"/>	
10	MINIMUM V.C. OVER DECK (ROADWAY + SHOULDERS)	99 FT. 99 IN. <input type="text"/> FT. <input type="text"/> IN.	
520	MINIMUM V.C. OVER DECK (EXCLUDES SHOULDERS)	99 FT. 99 IN. <input type="text"/> FT. <input type="text"/> IN.	
36	TRAFFIC SAFETY FEATURES		
	Br. Rail Trans. Appr. Rail Terminal SPEED LIMIT	1 1 1 1 40	
	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>		
41	STRC OPEN/CLOSED/POSTED A K P	A <input type="text"/>	
58	DECK	4 <input type="text"/>	
59	SUPERSTRUCTURE	5 <input type="text"/>	
60	SUBSTRUCTURE	6 <input type="text"/>	
61	CHANL/CHANL PROTECTION	N <input type="text"/>	
62	CULVERT AND RETAIN WALL	N <input type="text"/>	
71	WATERWAY ADEQUACY	N <input type="text"/>	
72	APPROACH RDWY ALIGNMENT	8 <input type="text"/>	
521	OVERALL CONDITION	<input type="text" value="POOR"/>	
16	LATITUDE	<input type="text" value="N 35° 6.2450'"/>	
17	LONGITUDE	<input type="text" value="W 89° 52.1883'"/>	
		<input type="text"/>	
	TEAM LEADER SIGNATURE	<input type="text"/>	
	REVIEW DATE	<input type="text"/>	

Photographs

Bridge ID#: 79-SR057-08.09

Date: 03/04/2013



BRIDGE NUMBER



SPAN 1 JOINT

Photographs

Bridge ID#: 79-SR057-08.09

Date: 03/04/2013



APPROACH 1 LEFT SIDEWALK SETTLED



APPROACH 1 ASPHALT

Photographs

Bridge ID#: 79-SR057-08.09

Date: 03/04/2013



DIRECTION OF ROUTE



APPROACH 1 RIGHT SIDEWALK SETTLED

Photographs

Bridge ID#: 79-SR057-08.09

Date: 03/04/2013



VIEW ACROSS DECK



SPAN 5 JOINT

Photographs

Bridge ID#: 79-SR057-08.09

Date: 03/04/2013



APPROACH 2 LEFT SIDEWALK SETTLED



SPAN 5 JOINT SPALLING

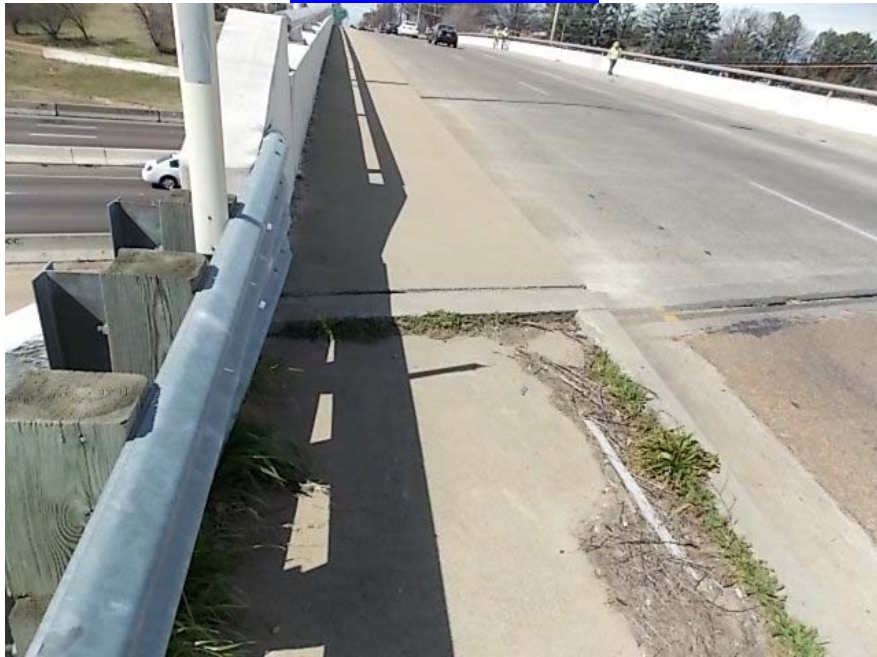
Photographs

Bridge ID#: 79-SR057-08.09

Date: 03/04/2013



APPROACH 2 ASPHALT



APPROACH 2 RIGHT SIDEWALK SETTLED

Photographs

Bridge ID#: 79-SR057-08.09

Date: 03/04/2013



SPAN 5 COVER PLATE MISSING ON LIGHT



ABUTMENT 1

Photographs

Bridge ID#: 79-SR057-08.09

Date: 03/04/2013



BENT 1 FRONT



LEFT ELEVATION SPAN 2

Photographs

Bridge ID#: 79-SR057-08.09

Date: 03/04/2013



RIGHT ELEVATION SPAN 2



BENT 2 FRONT

Photographs

Bridge ID#: 79-SR057-08.09

Date: 03/04/2013



RIGHT ELEVATION SPAN 3



BOTTOM DECK SPAN 3

Photographs

Bridge ID#: 79-SR057-08.09

Date: 03/04/2013



LEFT ELEVATION SPAN 3



BENT 3 FRONT

Photographs

Bridge ID#: 79-SR057-08.09

Date: 03/04/2013



LEFT ELEVATION SPAN 4



RIGHT ELEVATION SPAN 4

Photographs

Bridge ID#: 79-SR057-08.09

Date: 03/04/2013



BENT 4 FRONT



ABUTMENT 2

Photographs

Bridge ID#: 79-SR057-08.09

Date: 03/04/2013



SPAN 5 DIAPHRAGM SPALLING



SPAN 5 BEAM D SPALLING

Photographs

Bridge ID#: 79-SR057-08.09

Date: 03/04/2013



SPAN 5 BEAM C SPALLING



SPAN 5 BEAM C SPALLING

BRIDGE INSPECTION REPORT

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

Field Report No.: 21 Date: 3/4/13
Previous Report No.: 20 Date: 4/14/11
Co. Seq 01 Plans: YES () 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: 45 Maint.Resp: 02
Year Widened _____ Year Rehabilitated _____ Structure Name (If Named) _____

FEATURES

Wearing Surface Concrete () Timber () Asphalt () Depth _____ (in.)
Flared Width Yes () No () Median Width Open () None () Closed ()
Navigational Control Yes () No () 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. LEWIS
2. LOVE
3. JONES
4. LEECH
5. C. YOUNG
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 16'5" (ft.-in.) } **RAMP ONLY**
Min. Lateral Under Clearance Rt. 18.3' (*. * ft.) }
Min. Lateral Under Clearance Lt. 9.0' (*. * 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 ()
Change in Structural Condition: Yes () No () Major Repairs Made: Yes () No ()

COMMENTS: NOTE: I 240- MAINLINE OF UNDERPASS IS UNDER CONSTRUCTION.

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

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

Supervising Bridge Inspector: [Signature]

PERFORMANCE EVALUATION

Time of Day Inspected 11:30 AM Weather Conditions 54° SUNNY
Vehicles Observed ALL TYPES

LIVE LOAD BEHAVIOR

Substructure	YES	NO	Comments
Horiz./ Vert. Defl.	()	(<input checked="" type="checkbox"/>)	
Vibration	()	(<input checked="" type="checkbox"/>)	
Superstructure			
Horiz./ Vert. Defl.	()	(<input checked="" type="checkbox"/>)	
Vibration	()	(<input checked="" type="checkbox"/>)	

APPROACH

	Rating	Comments
Alignment	<input checked="" type="radio"/> G F P C	
Slab SIDEWALK	G F <input checked="" type="radio"/> P C	APPROACH #1#2 LT:RT- SETTLED (005)
Joints	G F P C	N/A
Pavement	G <input checked="" type="radio"/> F P C	
Embankment	<input checked="" type="radio"/> G F P C	
Drains	<input checked="" type="radio"/> G F P C	

TRAFFIC SAFETY FEATURES

	Rating	STANDARD/ SUB-STANDARD	Comments
Bridgerailing	G <input checked="" type="radio"/> F P C	(<input checked="" type="checkbox"/>) ()	
Transitions	<input checked="" type="radio"/> G F P C	(<input checked="" type="checkbox"/>) ()	
Guardrail	G <input checked="" type="radio"/> F P C	(<input checked="" type="checkbox"/>) ()	
Guardrail Terminal	<input checked="" type="radio"/> G F P C	(<input checked="" type="checkbox"/>) ()	

SIGNING

	YES	NO	NEEDED	Weight Limit Posted
Paddleboards	()	(<input checked="" type="checkbox"/>)	()	YES () NO (<input checked="" type="checkbox"/>)
Vertical Clearance (<14'-6")	()	(<input checked="" type="checkbox"/>)	()	Gross..... Tons
NARROW ()	()	(<input checked="" type="checkbox"/>)	()	2 Axle..... Tons
ONE LANE BRIDGE ()	()	(<input checked="" type="checkbox"/>)	()	3 or more Axles.. Tons

Other Signs or Plaques: NONE

Comments Regarding any Problems with Signing: NONE

DECK

	Rating	Comments
Wearing Surface	G <u>F</u> P C	
Deck - Structural Condition	G F <u>P</u> C	<u>SPAN # 3 - DELAMINATED (243)</u>
Curbs	G F P C	
Median	G F P C	
Sidewalks	G <u>F</u> P C	
Parapet	G <u>F</u> P C	
Railing	<u>G</u> F P C	
Paint	G F P C	
Drains	G <u>F</u> P C	
Lighting Standards	G F <u>P</u> C	<u>SPAN #1, #3, #5 - COVER PLATE MISSING(?)</u>
Utilities	G F P C	
Joint Leakage	G F P C	
Expansion Joints	G F <u>P</u> C	<u>SPAN #5 - MATERIAL TORN; MISSING (031)</u>

SUPERSTRUCTURE

Bearing Devices	G F P C	
Beams C.I.B	G F <u>P</u> C	<u>SPAN #5 BEAM "C" : "D" (244)</u>
Girders	G F 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 <u>F</u> P C	
Bracing	G F P C	
Trusses - General	G F P C	
Portals	G F P C	
Bracing	G F P C	
Paint <u>EQ</u>	<u>G</u> F P C	
Alignment of Members	<u>G</u> F P C	

TEXTURE COAT

Condition Rating	G <u>F</u> P C
Overall Appearance	G <u>F</u> P C
Staining Rating	G <u>F</u> P C

Fading	G <u>F</u> P C
Needs Spot Painting	YES () NO (<input checked="" type="checkbox"/>)
Needs Repainting	YES () NO (<input checked="" type="checkbox"/>)

Comments _____ Scaling Rating G F P C

RECOMMENDATIONS: _____ CLEAN SEAL JOINTS ()
 _____ CLEAN DRAINS ()

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

Date _____

SUBSTRUCTURE

PILES TO BE REPLACED

ABUTMENTS

	<u>Rating</u>	<u>Comments</u>	<u>PILE(S)</u>	<u>ABUTMENT</u>
Caps	G (F) P C	_____	_____	_____
Breastwall	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	_____	_____	_____
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

			<u>PILE(S)</u>	<u>PIER</u>
Caps	G F P C	_____	_____	_____
Columns	G F P C	_____	_____	_____
Plumb	G F P C	_____	_____	_____
Footings	G F P C	<u>N/A</u>	_____	_____
Piles	G F P C	<u>N/A</u>	_____	_____
Bearing	G F P C	<u>N/A</u>	_____	_____
Web	G F P C	_____	_____	_____
Earthquake Devices	G F P C	_____	_____	_____

BENTS

			<u>PILE(S)</u>	<u>BENT</u>
Caps	G (F) P C	_____	_____	_____
Columns	(G) F P C	_____	_____	_____
Plumb	(G) F P C	_____	_____	_____
Footings	G F P C	_____	_____	_____
Piles <u>PARAPET</u>	G (F) P C	_____	_____	_____
Bearing	(G) F P C	_____	_____	_____
Bracing <u>LIGHTS</u>	(G) F P C	_____	_____	_____
Earthquake Devices	(G) F P C	_____	_____	_____

Piles Need Replacement: NO () YES () _____
 CUT VEGETATION NO () YES () HEAVY GROWTH (204)
 CLEAR DRIFT NO () YES () _____

RECOMMENDATIONS: _____

Inspection Team's Summary
Bridge Location No. 79 -SR057 - 08.09
Inspection Date 03/04/13
Bridge Rating POOR

THIS 5 SPAN CONCRETE I BEAM BRIDGE IS IN POOR CONDITION.
THE APPROACH PAVEMENT AND CONCRETE WEARING SURFACE HAVE
FINE CRACKS.

SPAN 1,3&5 COVER PLATES ARE MISSING FROM LIGHTS.

SPAN 3 BOTTOM DECK HAS DELAMINATION AND SPALLING.

SPAN 5 CONCRETE I BEAM(C&D) SPALLED TO STEEL AND BROKEN.

THE CONCRETE SUBSTRUCTURE HAS FINE CRACKS AND BEGINNING
TO SPALL.

THE MAIN LANE VERTICAL CLEARANCE IS UNDER CONSTRUCTION.

THE MINIMUM VERTICAL ON RAMP IS 16'5".

NOTE: APPROACH 1&2 LEFT AND RIGHT SIDEWALK SETTLED.

SPAN 5 JOINT MATERIAL TORN AND MISSING.

THERE IS POTENTIAL FOR CONCRETE TO FALL IN ROADWAY SPAN 2
BOTTOM HAS DELAMINATION AND BENT 3 HAS BEGINNING TO SPAL
THAT COULD FALL IN ROADWAY.

RANDY LOVE

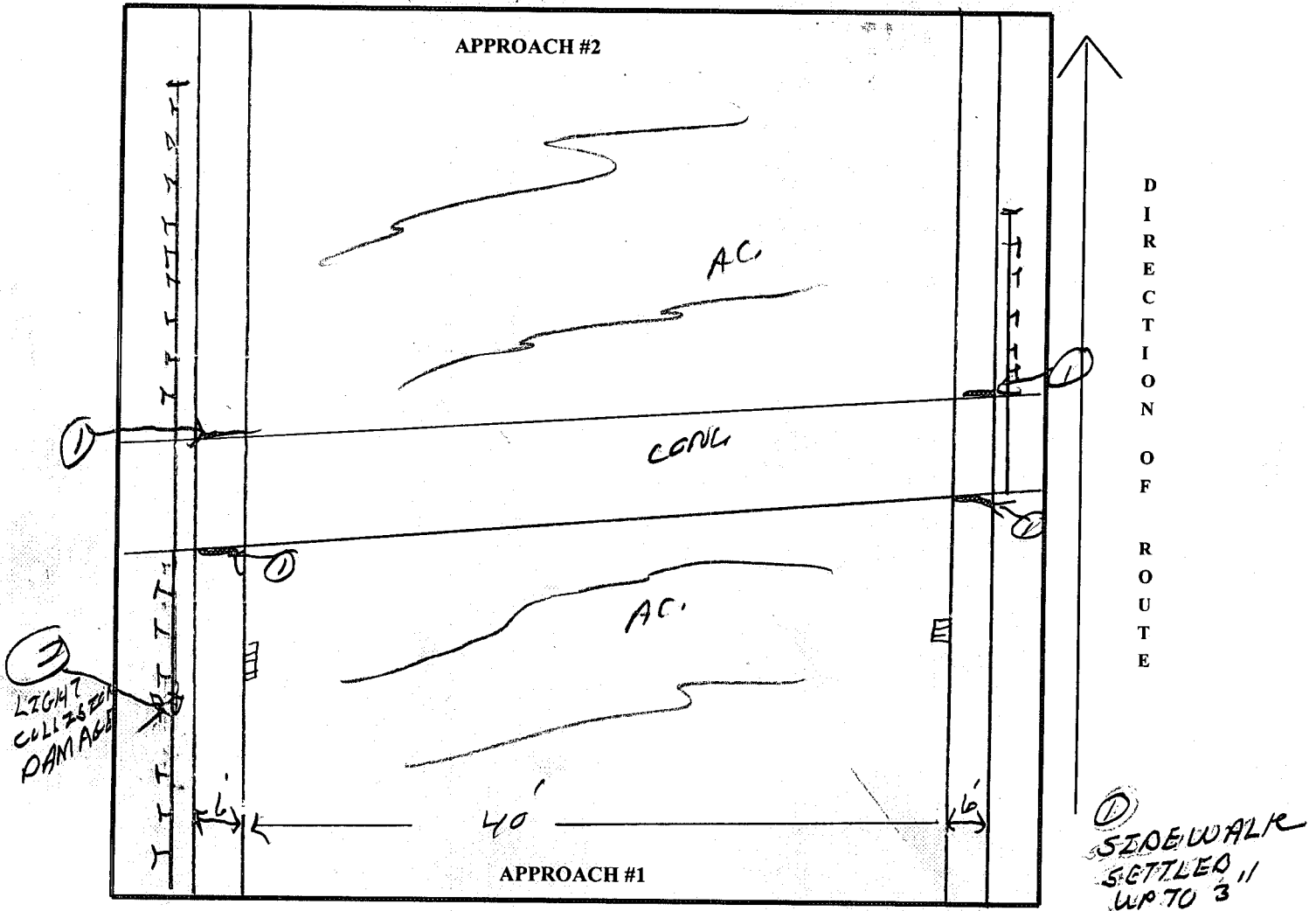
INSPECTOR

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

MAR 04 2013

BRIDGE NO.: 79I02400112 79 SR057 0809 - DATE:

CO. ROUTE LOG MILE L/R SKEW



ELEMENT	RATING	COMMENTS
ALIGNMENT	G F P C	
APPROACH PAVEMENT	G F P C	FINE CRACKS
APPROACH SLAB	G F P C	
APPROACH GUARDRAIL	G F P C	SEE (2)
EMBANKMENT	G F P C	
DRAINS	G F P C	
APPROACH JOINT	G F P C	
SIGNS	G F P C	
SIDE WALK	G F P C	SEE (1)

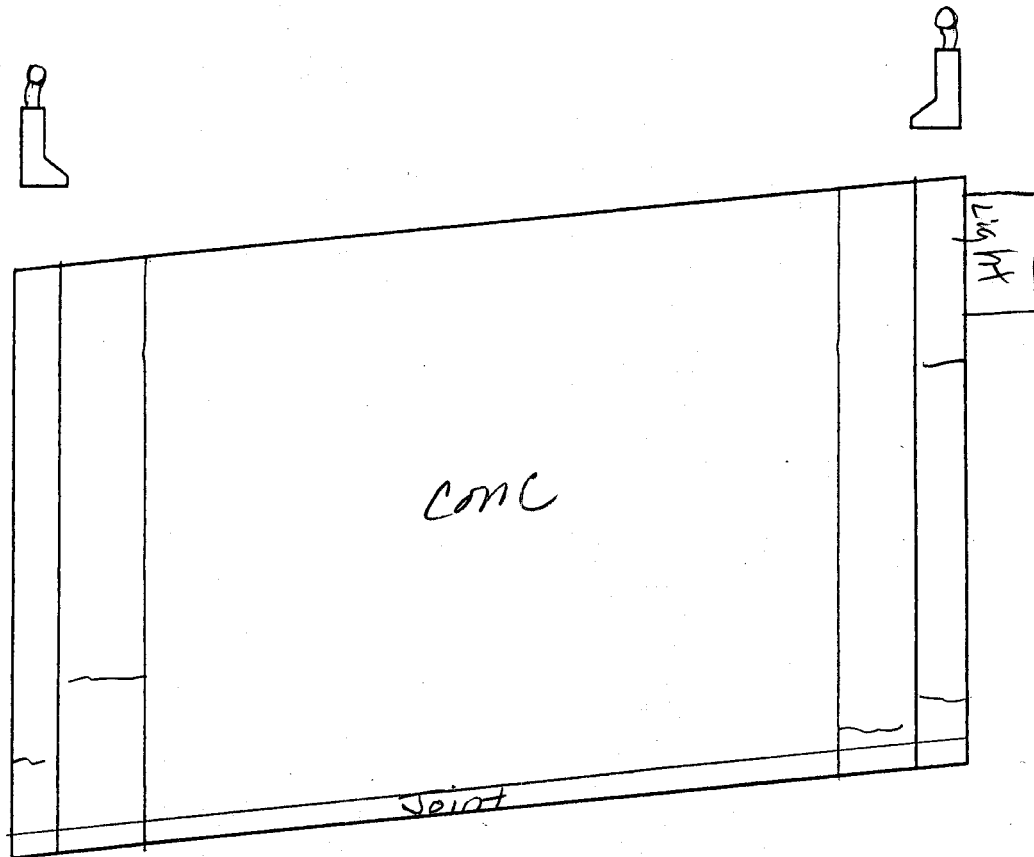
MAR 04 2013

3/4/13

79 57 8.09

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

SPAN. NO.

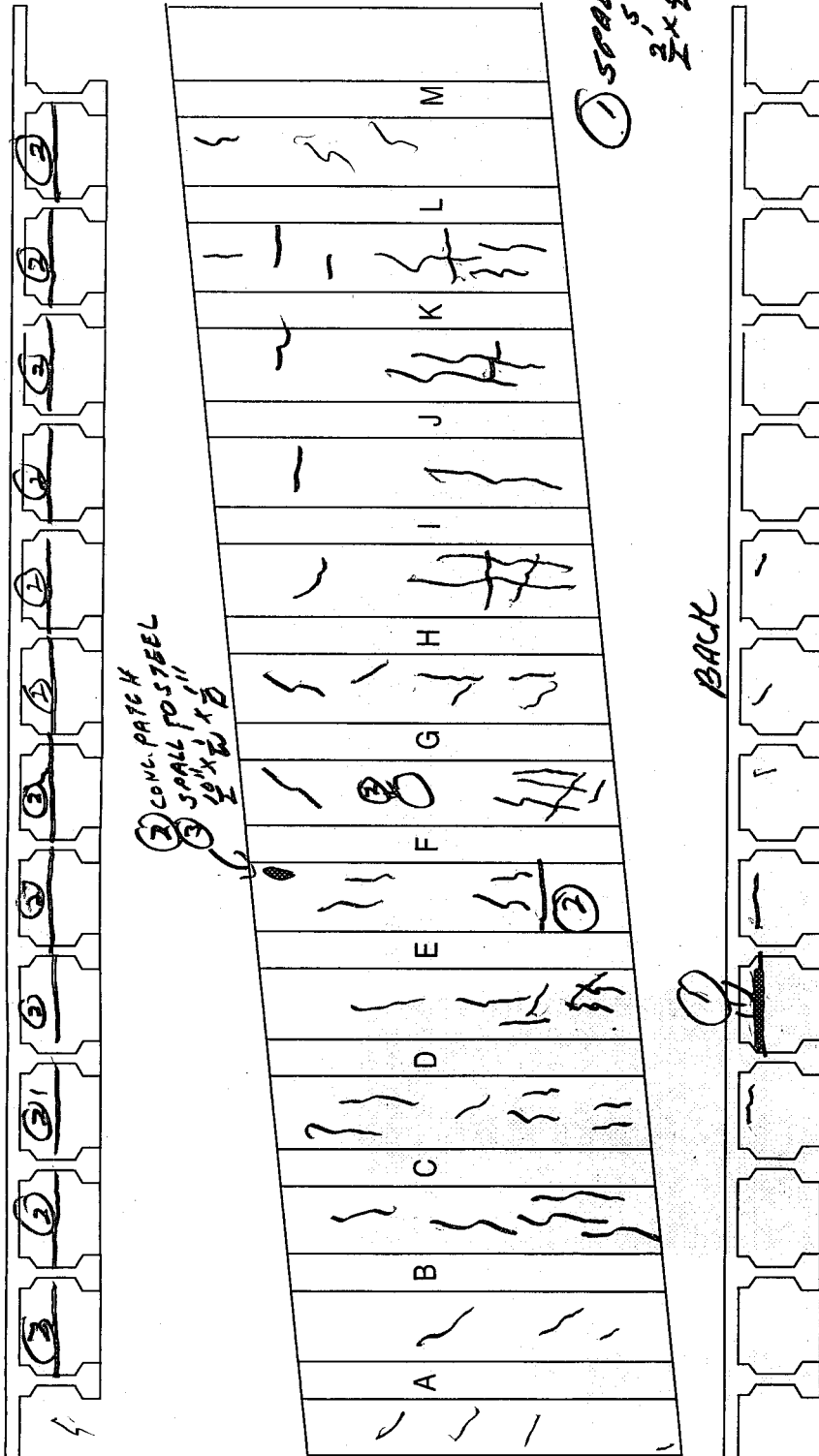


ELEMENT	RATING	COMMENT
TOP DECK	G F P C	
PARAPET	G F P C	Fine cracks
DRAINS	G F P C	N/A
JOINTS	G F P C	Light scattered debris
Rails	G F P C	
Sidewalk	G F P C	
Light	G F P C	cover missing

79-57-8.09
 Bridge No. _____ RT.

SKEW _____

Span No. 1

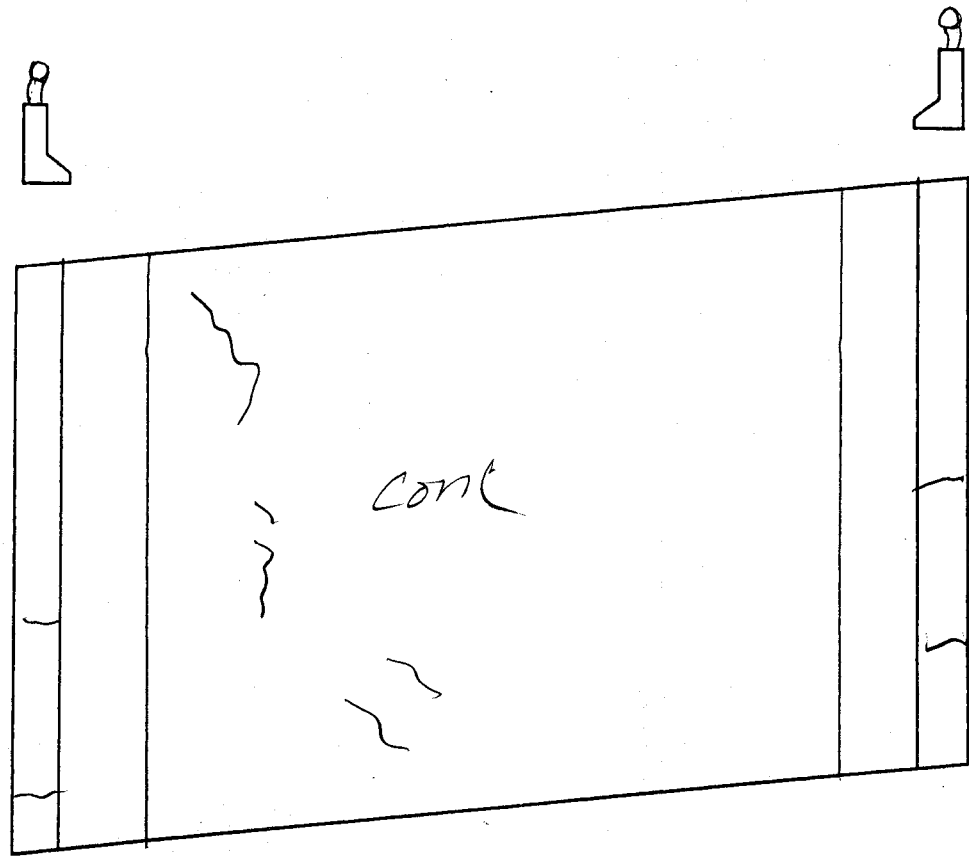


ELEMENT	RATING	COMMENTS
BOTTOM DECK	G P C	FINE CRACKS SEE ③
CONC. I BEAM	G P C	
A --- M	G P C	
BACKWALLS	G P C	FINE CRACKS SEE ②; FINE CRACKS
DIA.	G P C	

48
MAR 03-2013

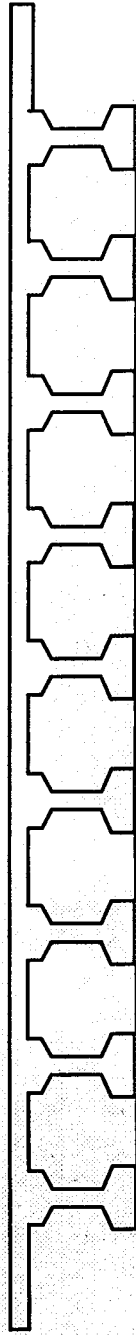
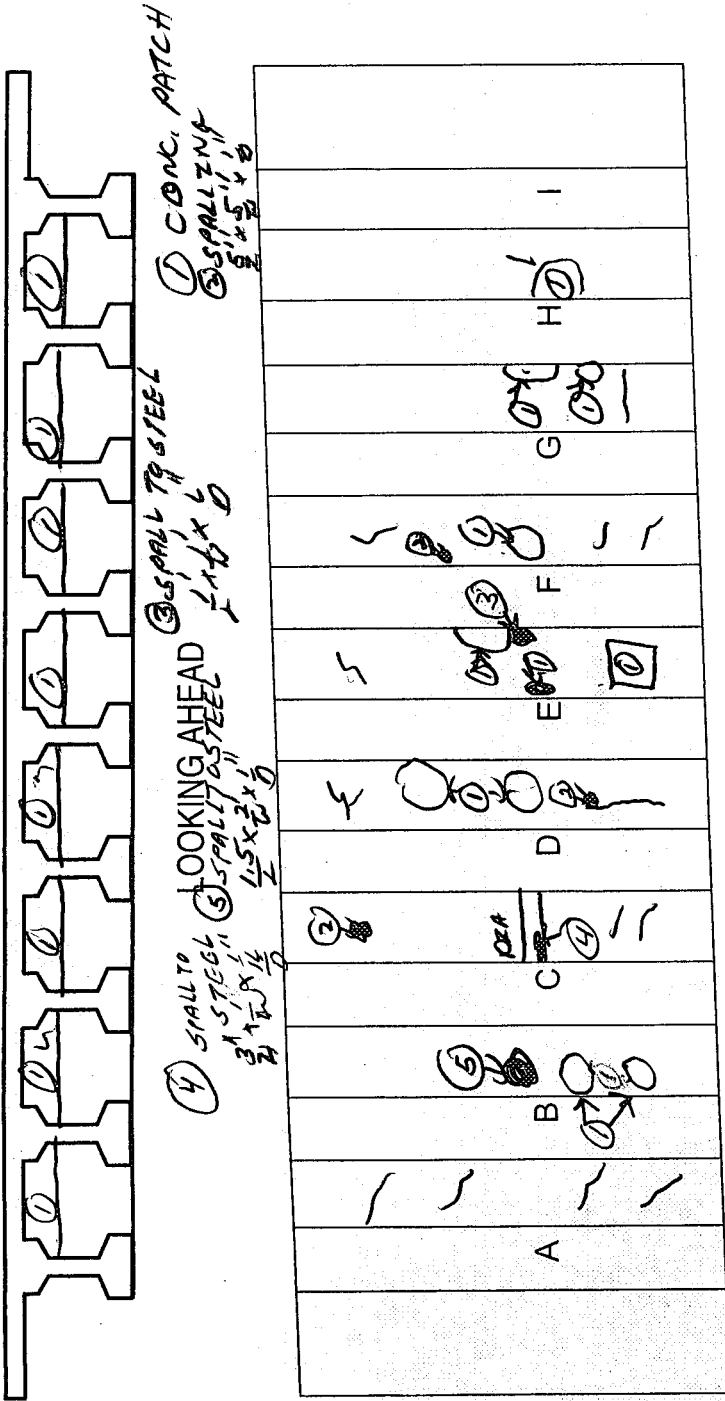
79 57 8.09
Bridge No. Co. Route Log Mile R/L Skew

SPAN. NO. 2



ELEMENT	RATING	COMMENT
TOP DECK	GⓄP C	Fine cracks
PARAPET	GⓄP C	
DRAINS	G F P C	N/A
JOINTS	G F P C	N/A
Rails	GⓄP C	
Sidewalk	GⓄP C	Fine cracks

Bridge No. 79-57-8.09 SKEW RL _____ Span No. 2



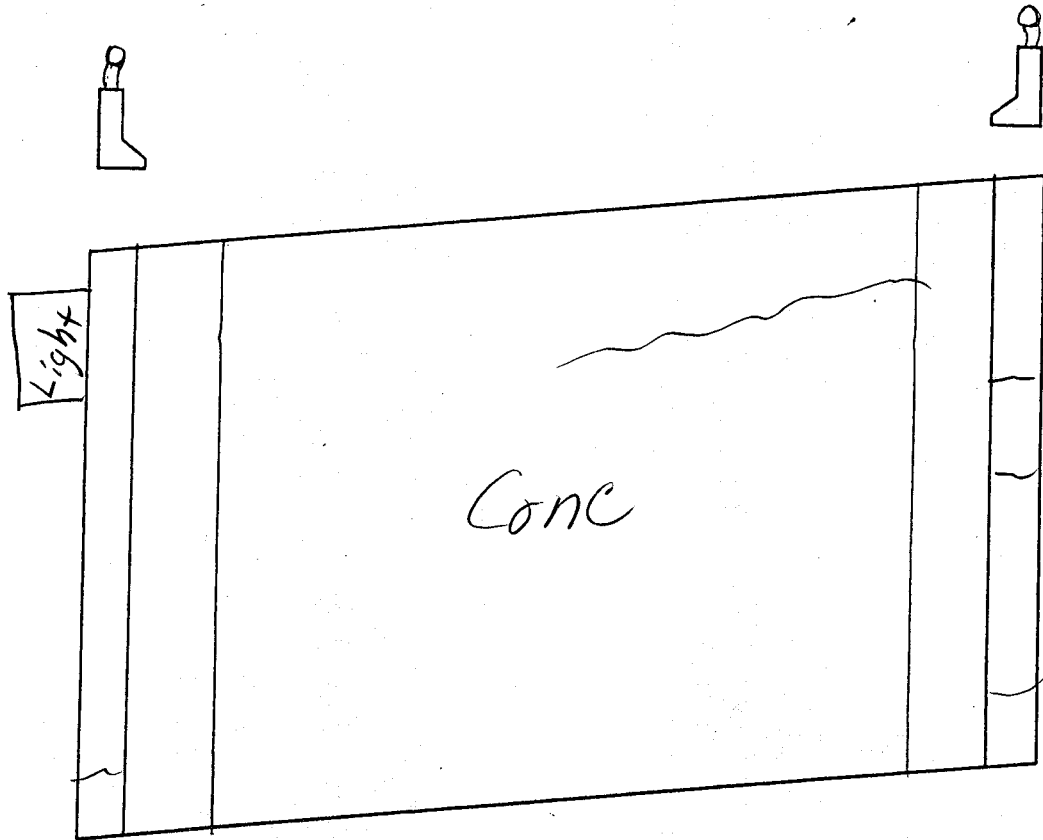
LOOKING BACK

ELEMENT	RATING	COMMENTS
BOTTOM DECK	G E P C	SEE 1, 2, 3, 5
CONC. I BEAM	G F P C	
A --- I	G F P C	
BACKWALLS	G F P C	SEE 1, FINE CRACKS
DIA.	G E P C	

MAR 04 2013

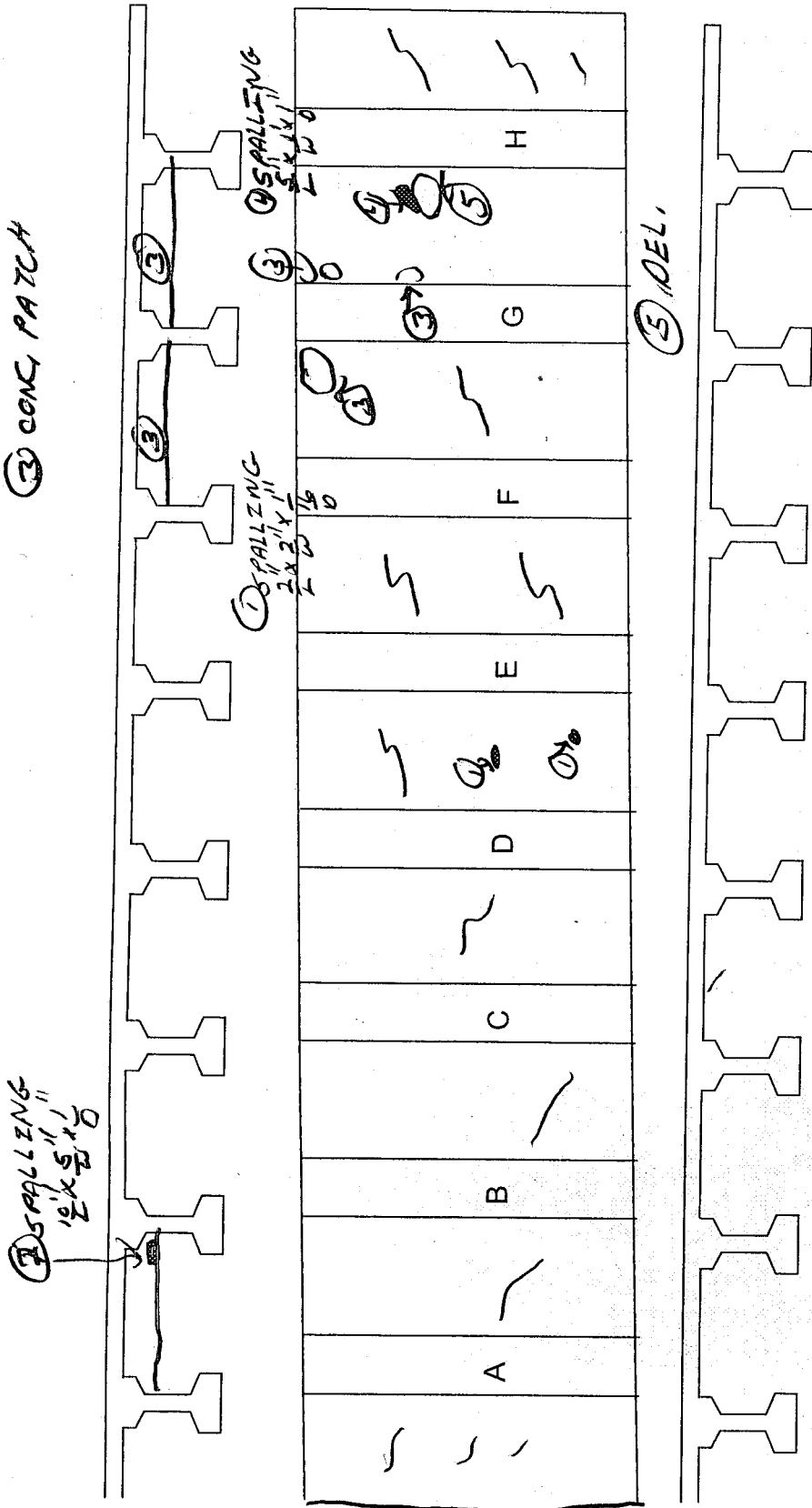
79 57 8.09
 Bridge No. Co. Route Log Mile R/L Skew

SPAN. NO. 3



ELEMENT	RATING	COMMENT
TOP DECK	G F P C	Fine cracks
PARAPET	G F P C	
DRAINS	G F P C	N/A
JOINTS	G F P C	N/A
Rails	G F P C	
Sidewalk	G F P C	
Light	G F P C	cover missing

Bridge No. 79-57-8.09 SKEW RL _____ Span No. 3



ELEMENT	RATING	COMMENTS
BOTTOM DECK	G F P C	SEE ①, ③, ④, ⑤ AND FINE CRACKS
CONC. I BEAM	G F P C	
A ... A	G F P C	FINE CRACK AND SEE ②
BACKWALLS	G F P C	
DIA.	G F P C	

MAR 04 2013

79 57 8.09

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

SPAN. NO. 4

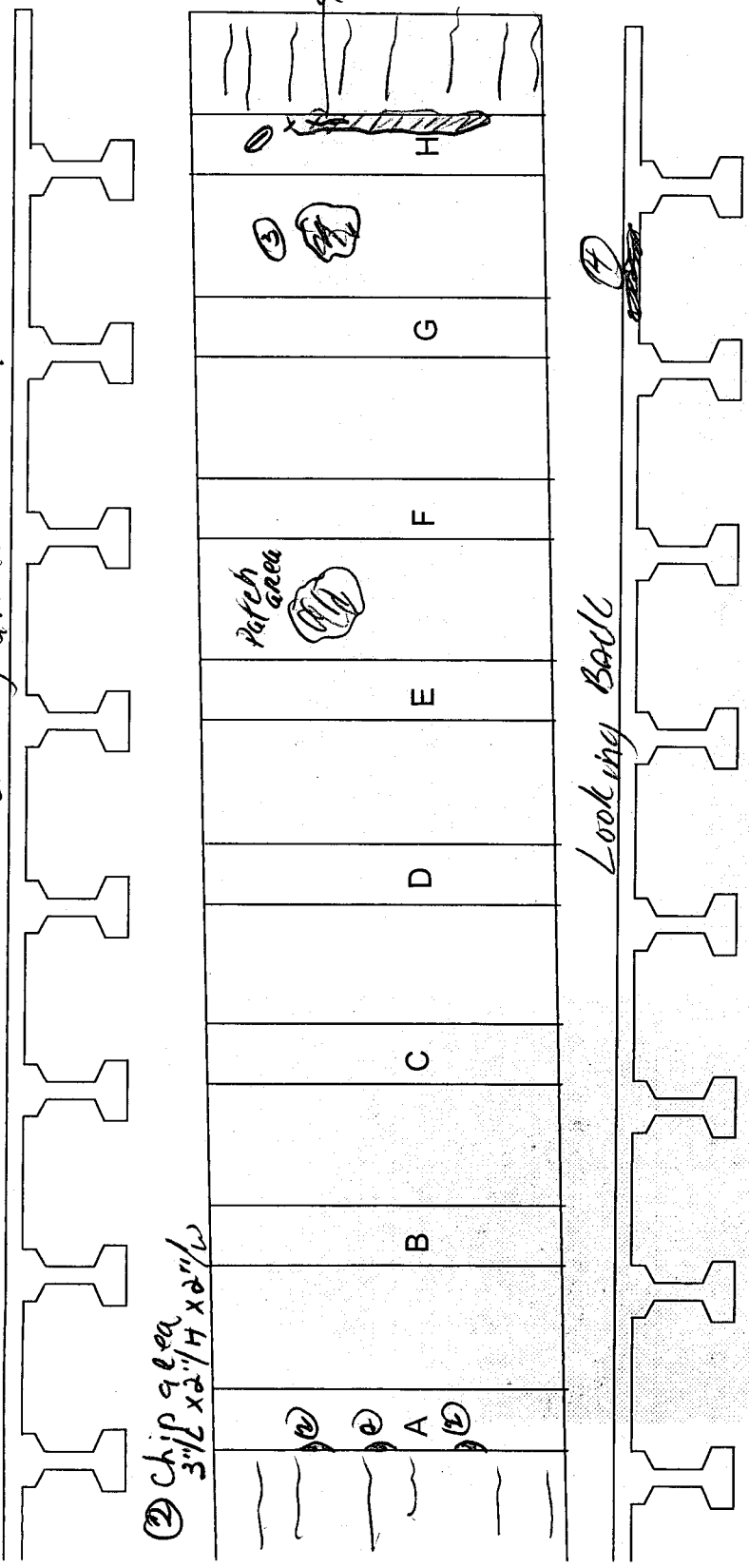


ELEMENT	RATING	COMMENT
TOP DECK	G $\text{\textcircled{F}}$ P C	fine cracks
PARAPET	G $\text{\textcircled{F}}$ P C	fine cracks
DRAINS	G F P C	N/A
JOINTS	G F P C	N/A
rails	$\text{\textcircled{G}}$ F P C	
sidewalk	G $\text{\textcircled{F}}$ P C	fine cracks

LJ
3-4-13
MAR 04 2013

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

① Patch area
② spill area
1.0/DIA. X 1 1/4"
Looking a Head



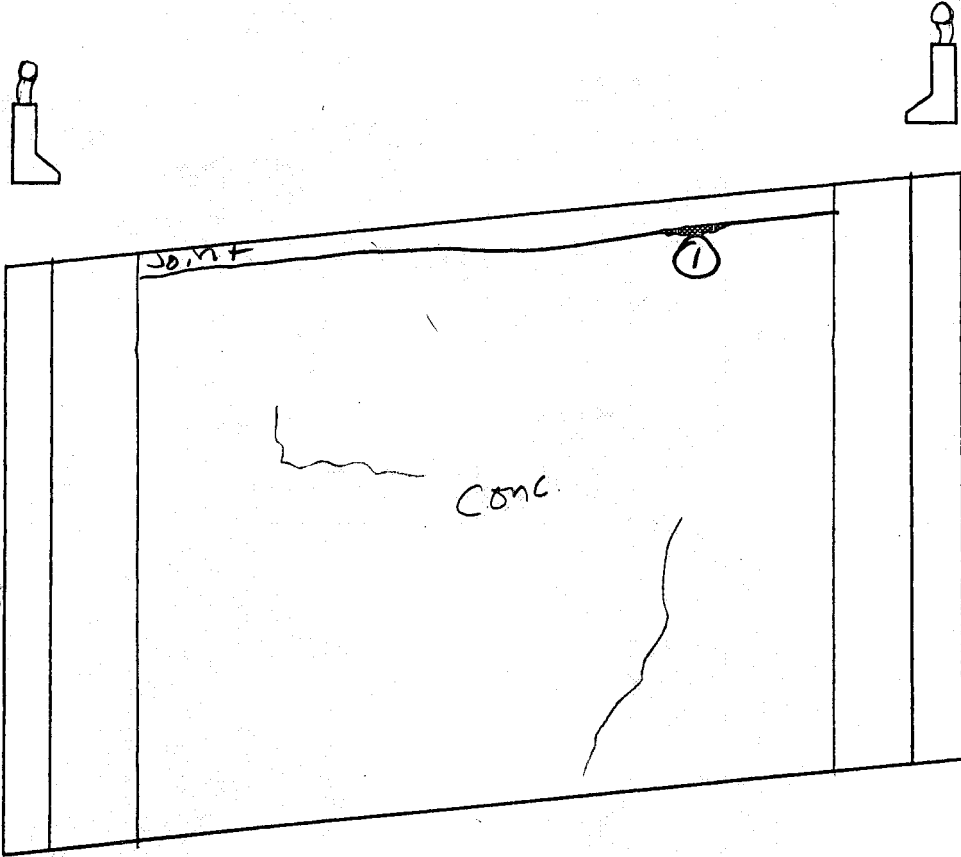
ELEMENT	RATING	COMMENTS
BOTTOM DECK	G(F)P C	Patch areas, Fine cracks & see ③
CONC. I BEAM	G(F)P C	
A ---	G(F)P C	see ②
B thru G	G(F)P C	see ① + Fine cracks
H	G(F)P C	
BACKWALLS E.O	G(F)P C	
DIA.	G(F)P C	

79 57 8.09

MAR 04 2013

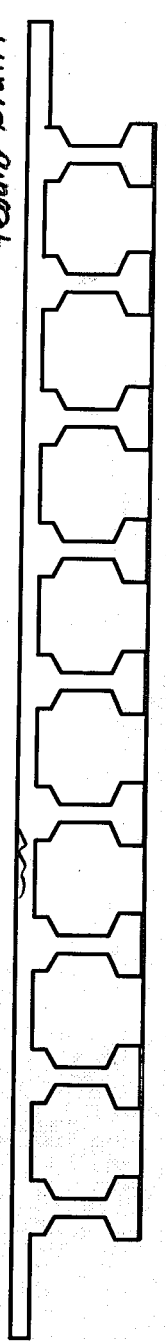
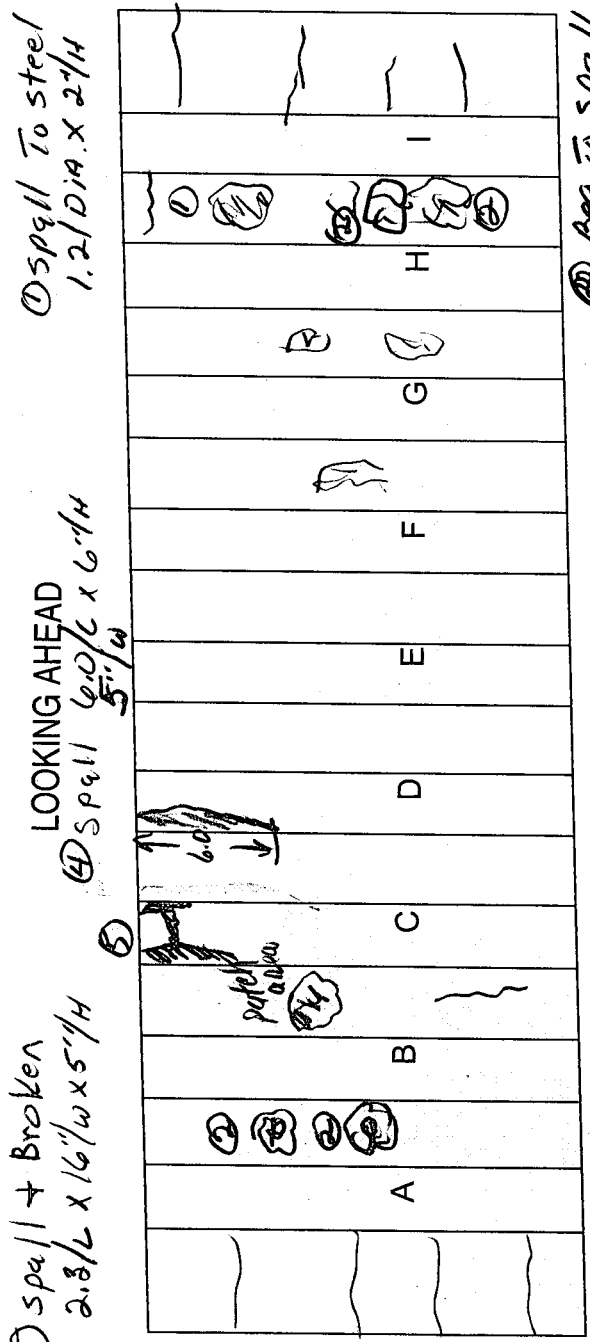
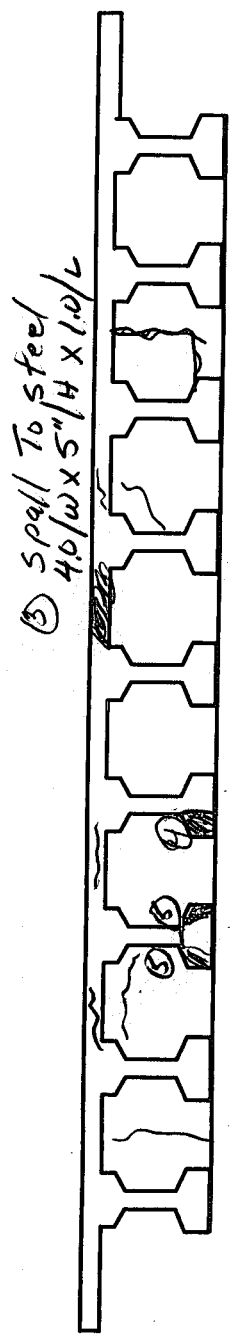
Bridge No. Co. Route Log Mile R/L Skew

SPAN. NO. 5

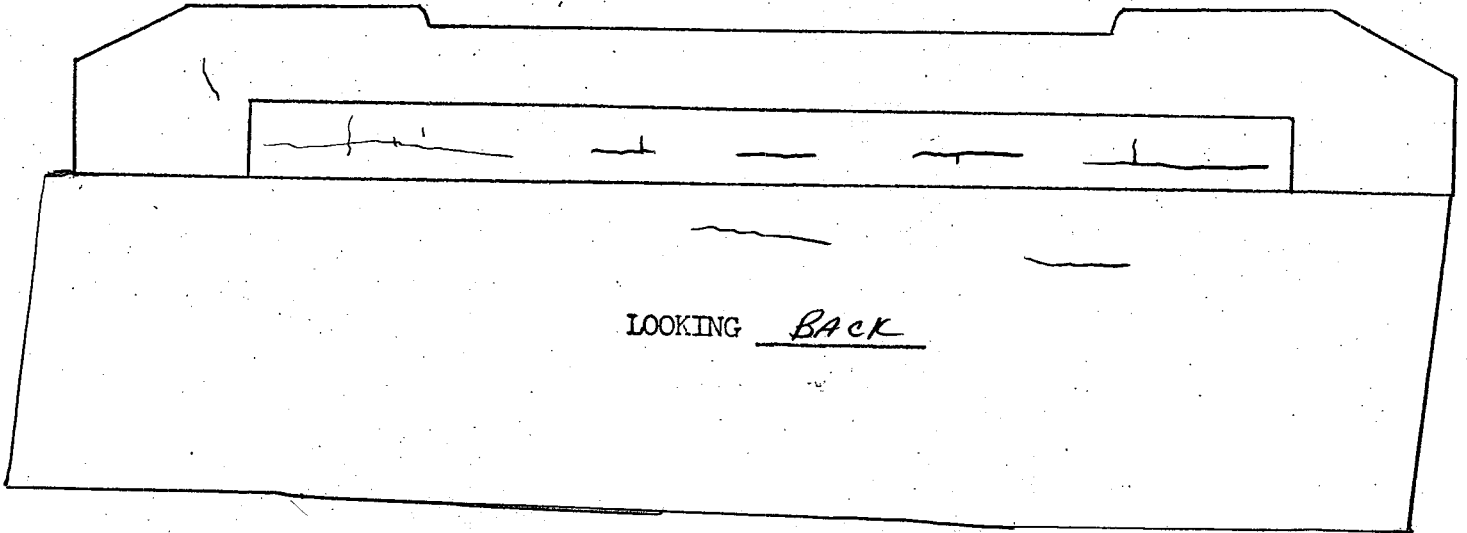


ELEMENT	RATING	COMMENT
TOP DECK	G (F) P C	finer cracks
PARAPET	G (F) P C	finer cracks
DRAINS	G (F) P C	partially filled with debris
JOINTS	G F (P) C	material torn & missing, see 1
rails	(G) F P C	
sidewalk	G (F) P C	finer cracks
Light	(P)	cover plate missing

Bridge No. 79-57-8.09 SKEW RL Span No. 5



ELEMENT	RATING	COMMENTS
BOTTOM DECK	G F P C	Ting cracks, Patch area + see ① + ②
CONC. I BEAM	G F P C	
A --- I	G F P C	see ④ see ⑥ see ③
E-R	G F P C	
CIA D CIA C BACKWALLS	G F P C	
DIA.	G F P C	

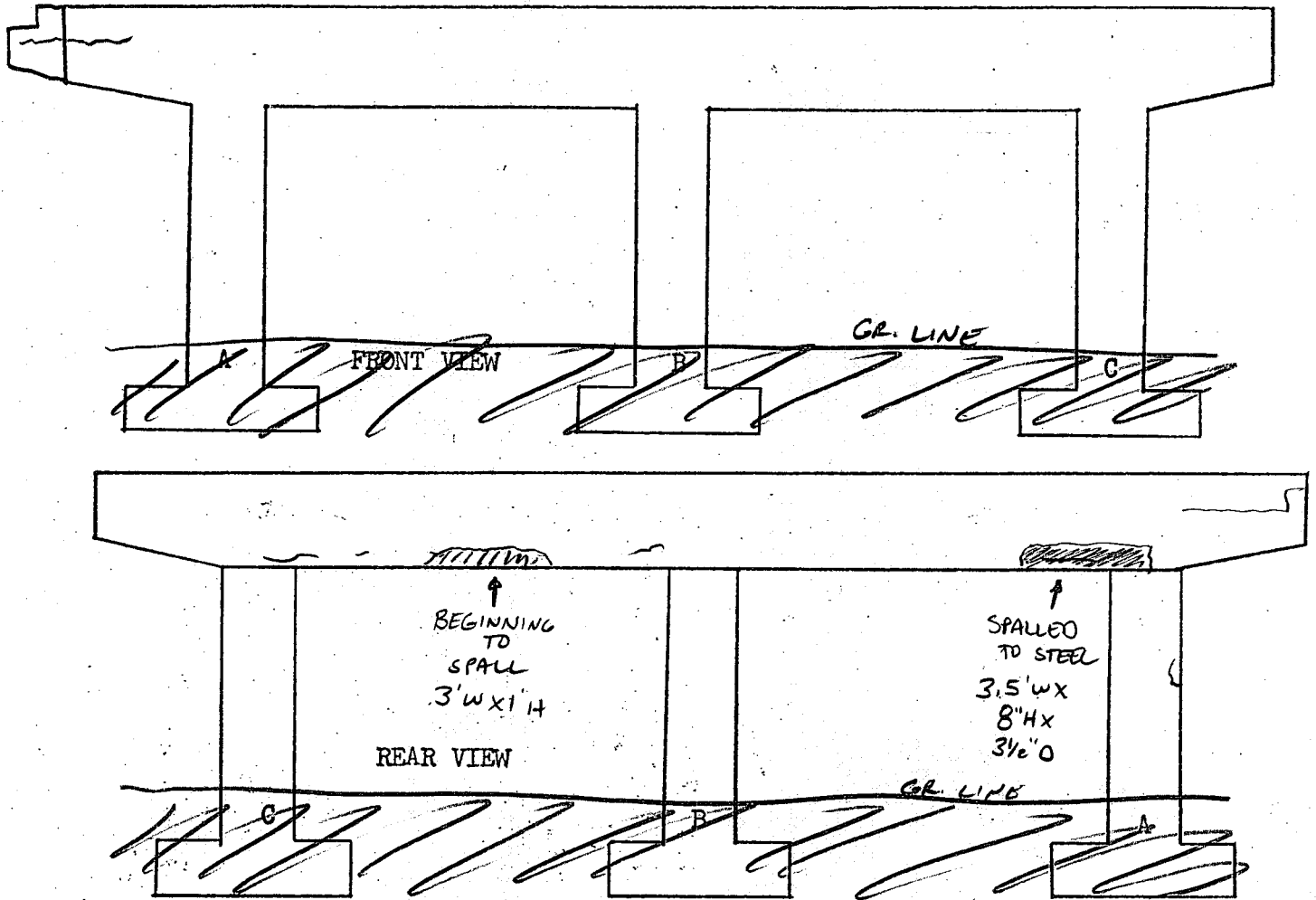


LOOKING BACK

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

BR. NO. 79 57 8.09

BENT NO. MAR 04 2013



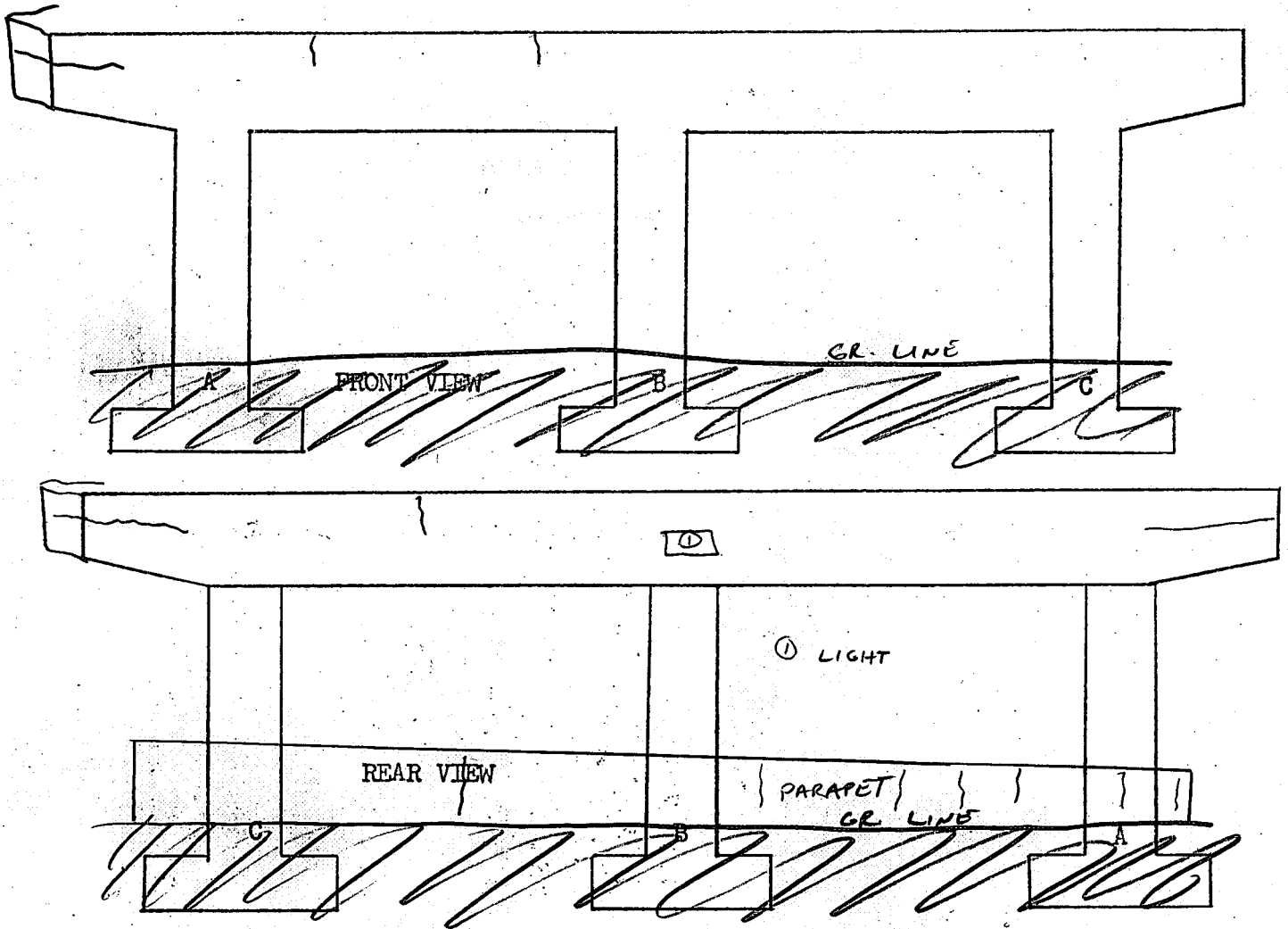
ELEMENT	RATING	COMMENT
---------	--------	---------

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	
E.Q.	G F P C	

SPALLED TO STEEL / BEGINNING TO SPALL / FINE CRACKS

BR. NO. 79 57 0.09

BENT NO. MAR 04 2013



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

FINE CRACKS

E. Q.

ⓐ F P C

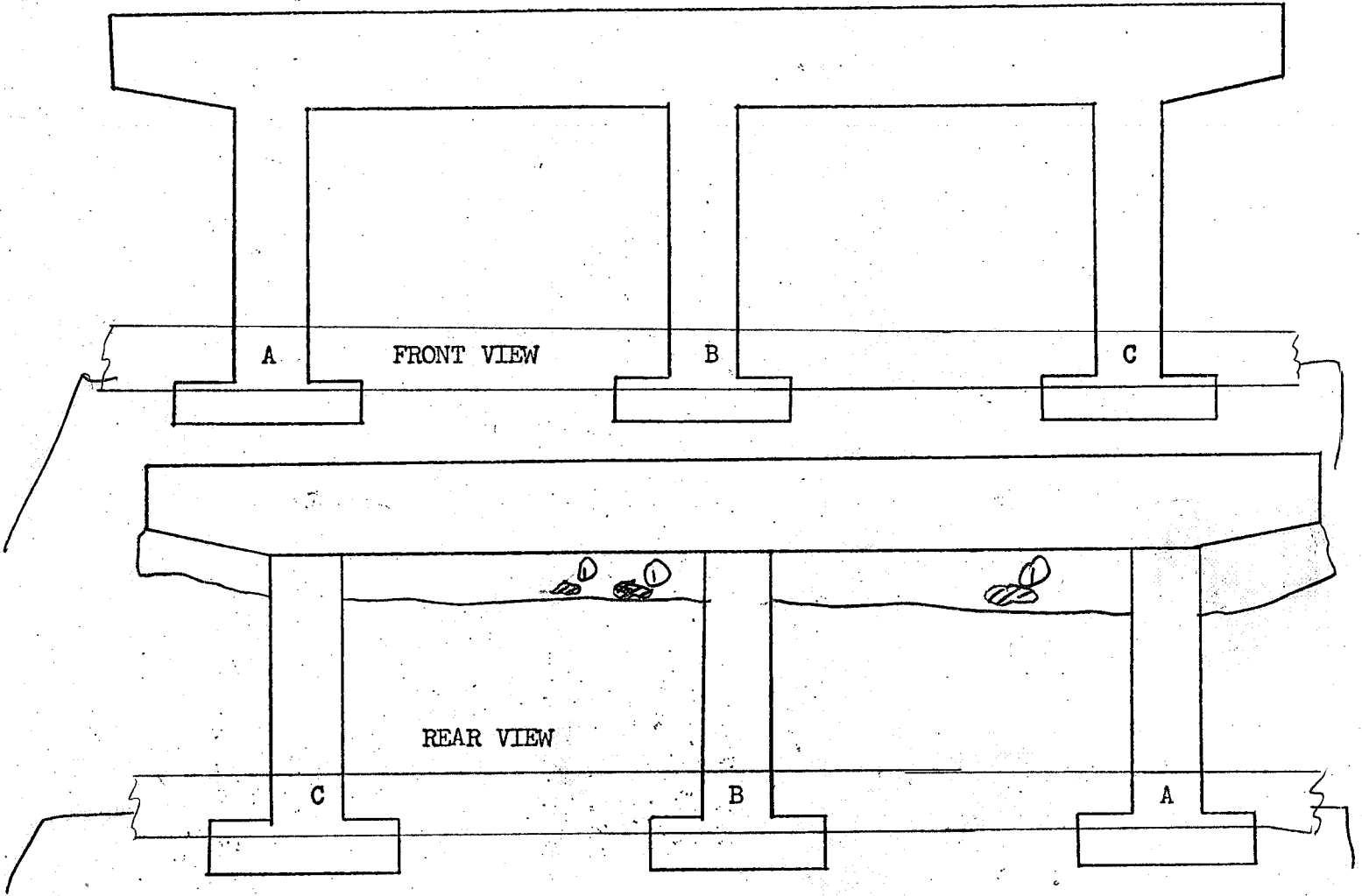
PARAPET

ⓐ

FINE CRACKS

BR. NO. 79 57 8.09

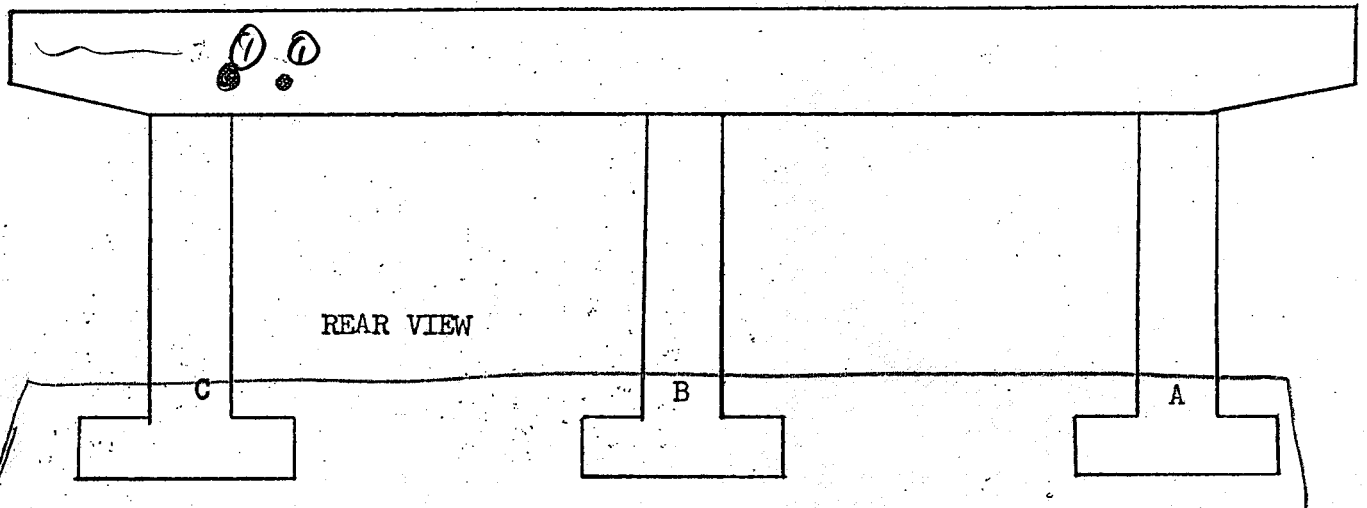
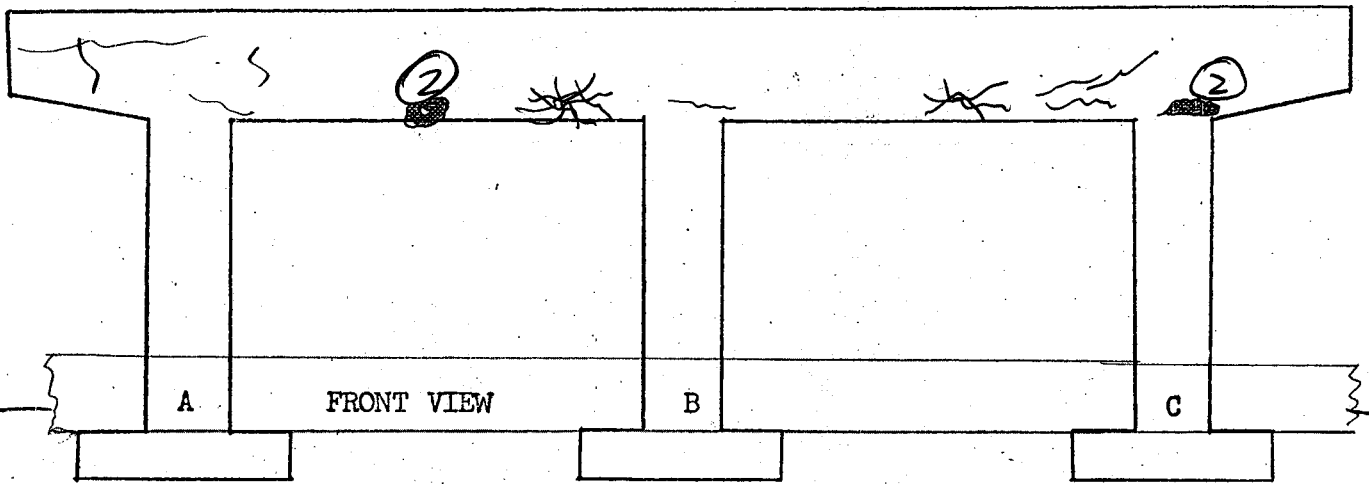
BENT NO. 3 MAR 04 2013



ELEMENT	RATING	COMMENT
BEARINGS	ⓐ F P C	① begin to fail 3axi'L
COLUMNS	ⓐ F P C	
A	ⓐ F P C	
B	ⓐ F P C	
C	ⓐ F P C	
CAP	ⓐ F P C	see ①, fine cracks
E.Q.	ⓐ F P C	NA
Parapet	ⓐ F P C	fine cracks

BR. NO. 79 57 8.09

BENT NO. MAR 01 2013



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

E. Q.

G F P C

Parapet

G F P C

See ①, ②, fine cracks

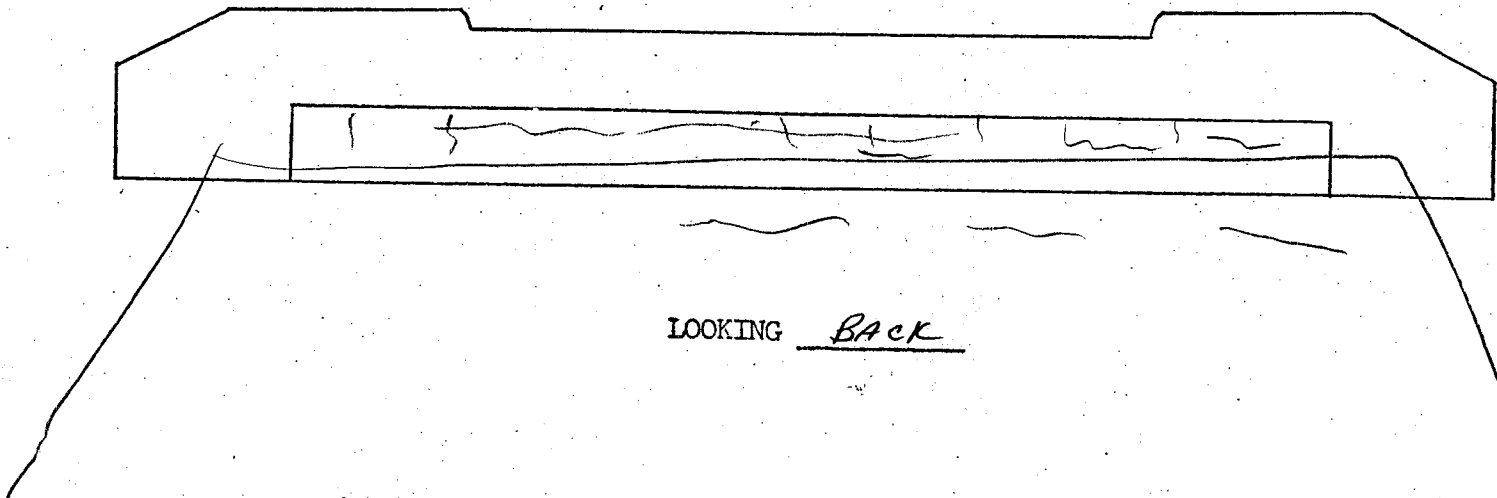
NF

fine cracks

① chipped areas
upto 1'0" x 4" D

② spalled to steel
3' x 8" x 4" x 6" D

MAR 04 2013



LOOKING BACK

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

Underpass Condition Coding Form

County: 79

Route: I0240

Special Case: 0

County Sequence: 1

Bridge Number: 79I02400112A
(Includes Item 5A)

Feature Intersected: SR 57 WBL / I240

Log Mile: 15.73

CODE ONLY THOSE VALUES WHICH HAVE CHANGED

ITEM #	DESCRIPTION	VALUE	UNDERPASS SAFETY FEATURES
90	LAST INSPECTION DATE	03/04/2013	
	EARLIEST DATE OF NEXT REGULAR INSPECTION	01/03/2015	
		/ /	
10	MINIMUM V.C. OVER DECK (ROADWAY + SHOULDERS)	16 FT. 3 IN. ____ FT. ____ IN.	515 (A) TYPE UNDERPASS BARRIER COMBINATION OF METAL & CONCRETE BARRIER OR RAIL
			Revised Barrier Type
520	MINIMUM V.C. OVER DECK (EXCLUDES SHOULDERS)	16 FT. 7 IN. ____ FT. ____ IN.	(B) ADEQUACY OF BARRIER OR RAIL 1
47	TOTAL HORIZONTAL UNDERCLEARANCE	62 FT. 0 IN. ____ FT. ____ IN.	(C) ADEQUACY OF TRANSITIONS 0
54	MINIMUM VERTICAL UNDERCLEARANCE (EXCLUDES SHOULDERS)		(D) ADEQUACY OF TERMINALS 0
	Circle One: H R	____ FT. ____ IN.	
55	MINIMUM LATERAL UNDERCLEARANCE ON RIGHT SIDE		554 VERTICAL CLEARANCE LISTED ON HEIGHT POSTING
	Circle One: H R	____ FT. ____ IN.	FT. IN. ____ FT. ____ IN.
56	MINIMUM LATERAL UNDERCLEARANCE ON LEFT SIDE	____ FT. ____ IN.	16 LATITUDE 17 LONGITUDE
			N 35° 6.2450' W 89° 52.1883'
521	OVERALL CONDITION	POOR	HEIGHT POSTED AT BOTH APPROACHES? YES [] NO [] N/A []
555	COMMENTS		

TEAM LEADER SIGNATURE

/ /
REVIEW DATE

BRIDGE MAINTENANCE RECOMMENDATIONS



Tennessee Department
of Transportation

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

CROSSING: SR 57 WBL / I240
FED. BRIDGE NO.: 79I02400112
MAINT. DIST.: 79

REPAIR LIST NO.: N
DATE ADDED:
REVISED: 03/04/2013

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:	03/04/2013	GENERAL CONDITION:	POOR
EVALUATION DATE:	04/19/2011	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:

Underpass Condition Coding Form

County: 79

Route: I0240

Special Case: 0

County Sequence: 1

Log Mile: 15.72

Bridge Number: 79I02400112B
(Includes Item 5A)

Feature Intersected: SR-57 / I-240 EX. RAMP

CODE ONLY THOSE VALUES WHICH HAVE CHANGED

ITEM #	DESCRIPTION	VALUE	UNDERPASS SAFETY FEATURES
90	LAST INSPECTION DATE	03/04/2013	
	EARLIEST DATE OF NEXT REGULAR INSPECTION	01/03/2015	515 (A) TYPE UNDERPASS BARRIER CONCRETE BARRIER OR RAIL
		<u> / /</u>	
10	MINIMUM V.C. OVER DECK (ROADWAY + SHOULDERS)	16 FT. 5 IN.	Revised Barrier Type
		<u> FT. IN.</u>	(B) ADEQUACY OF BARRIER OR RAIL <u>0</u>
520	MINIMUM V.C. OVER DECK (EXCLUDES SHOULDERS)	16 FT. 11 IN.	
		<u> FT. IN.</u>	(C) ADEQUACY OF TRANSITIONS <u>0</u>
47	TOTAL HORIZONTAL UNDERCLEARANCE	42 FT. 3 IN.	
		<u> FT. IN.</u>	(D) ADEQUACY OF TERMINALS <u>0</u>
54	MINIMUM VERTICAL UNDERCLEARANCE (EXCLUDES SHOULDERS)		
	Circle One: H R	<u> FT. IN.</u>	554 VERTICAL CLEARANCE LISTED ON HEIGHT POSTING
55	MINIMUM LATERAL UNDERCLEARANCE ON RIGHT SIDE		
	Circle One: H R	<u> FT. IN.</u>	<u> FT. IN.</u>
56	MINIMUM LATERAL UNDERCLEARANCE ON LEFT SIDE	<u> FT. IN.</u>	16 LATITUDE N 35° 6.2450' 17 LONGITUDE W 89° 52.1883'
521	OVERALL CONDITION	POOR	HEIGHT POSTED AT BOTH APPROACHES? YES [] NO [] N/A []
555	COMMENTS		

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: SR-57 / I-240 EX. RAMP

FED. BRIDGE NO.: 79I02400112

MAINT. DIST.: 79

REPAIR LIST NO.: N

DATE ADDED:

REVISED: 03/04/2013

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:	03/04/2013	GENERAL CONDITION:	POOR
EVALUATION DATE:	04/19/2011	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 -

_____ or _____ over/
Railroad/Walkway Co. Route Log Mile 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) 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

NONE

INSPECTORS

1. LEWIS
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 -
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)

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

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

Width of Approach Traveled Roadway 36 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 162 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: _____ ft. _____ in.

*Show on Sketch

NOTE: I240 MAINLINE IS UNDER CONSTRUCTION

TRAFFIC SAFETY FEATURES FOR UNDERPASS ROUTE

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

SIGNING FOR UNDERPASS ROUTE

Paddleboards YES () NO () NEEDED ()
Vertical Clearance (<14'-6") YES () NO () NEEDED ()
Narrow Passage YES () NO () NEEDED ()
One Lane Passage YES () NO () NEEDED ()
Other Underpass Signs Needed _____

INSPECTORS

1. LEWIS
2. _____
3. _____
4. _____
5. _____
6. _____

INSPECTION REPORT FOR UNDERPASS ROUTE

Field Report No. _____ Date _____
 Previous Report No. _____ Date _____

Bridge No. 79I02400112
 Eleven Digit No.

Underpass Location No. 79 - SR057 - 0809 -

_____ or _____ over/under _____
 Railroad/Walkway Co. Route Log Mile Co. Route Log Mile

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: _____ ft. _____ in.

*Show on Sketch **NOTE: I240 MAINLINE IS UNDER CONSTRUCTION**

TRAFFIC SAFETY FEATURES FOR UNDERPASS ROUTE

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

SIGNING FOR UNDERPASS ROUTE

Paddleboards YES () NO () NEEDED ()
 Vertical Clearance (<14'-6") YES () NO () NEEDED ()
 Narrow Passage YES () NO () NEEDED ()
 One Lane Passage YES () NO () NEEDED ()
 Other Underpass Signs Needed _____

INSPECTORS

1. LEWIS
2. _____
3. _____
4. _____
5. _____
6. _____

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

79-57-8.09
Co. Route Log Mile

MAR 01 2013
Page No. 2013

Date _____

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

Other Signs or Plaques: NONE

Comments Regarding any Problems with Signing: NONE

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 Angle to Centerline of Bridge)
Number of Lanes/Tracks on Bridge 4

BRIDGE CONDITION: G F C

Does Potential Exist for Elements from Bridge Falling on Roadway Beneath YES () NO ()

Does Potential Exist Because of Deteriorated Condition or Failure of Major Member YES () NO ()

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

SPAN # 2 BOTTOM OF DECK HAS DELAMINATED SECTIONS, AND BENT # 3 CAP HAS SECTIONS BEGINNING TO SPALL.

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

MAR 04 2013

BIR 3.10
Rev. 06/22/01
ET-1510

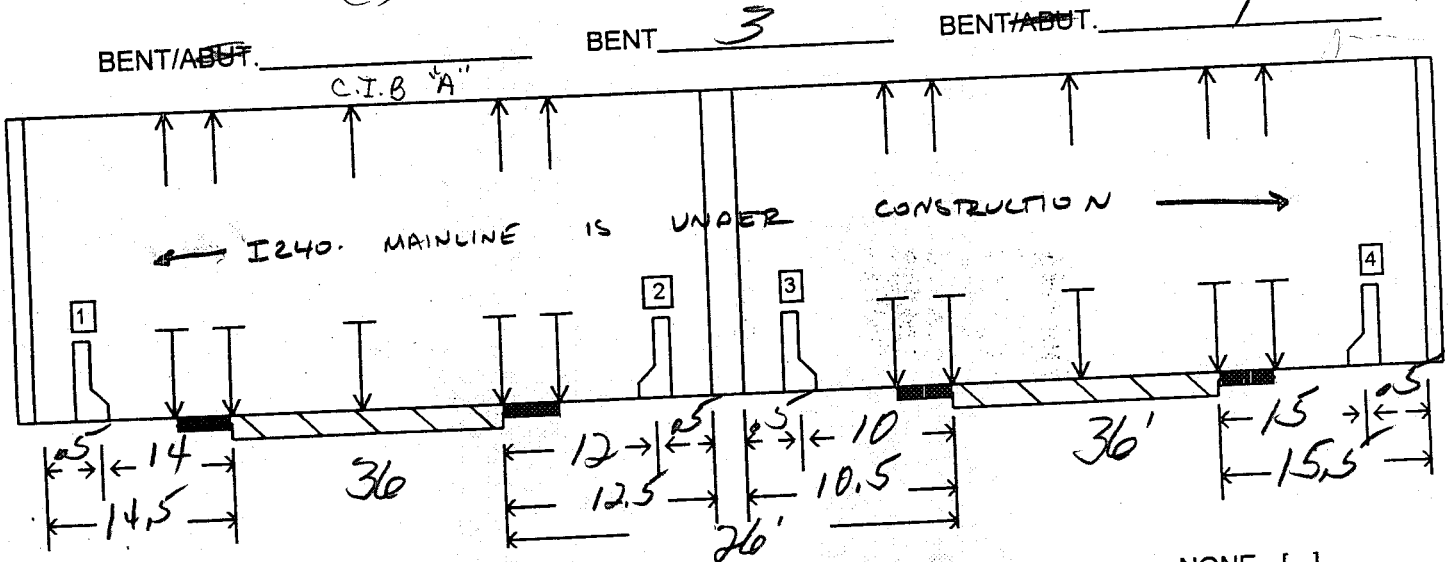
BRIDGE LOC. NO. 79 SR057 0809
CO. ROUTE L.M. L/R

DATE: _____

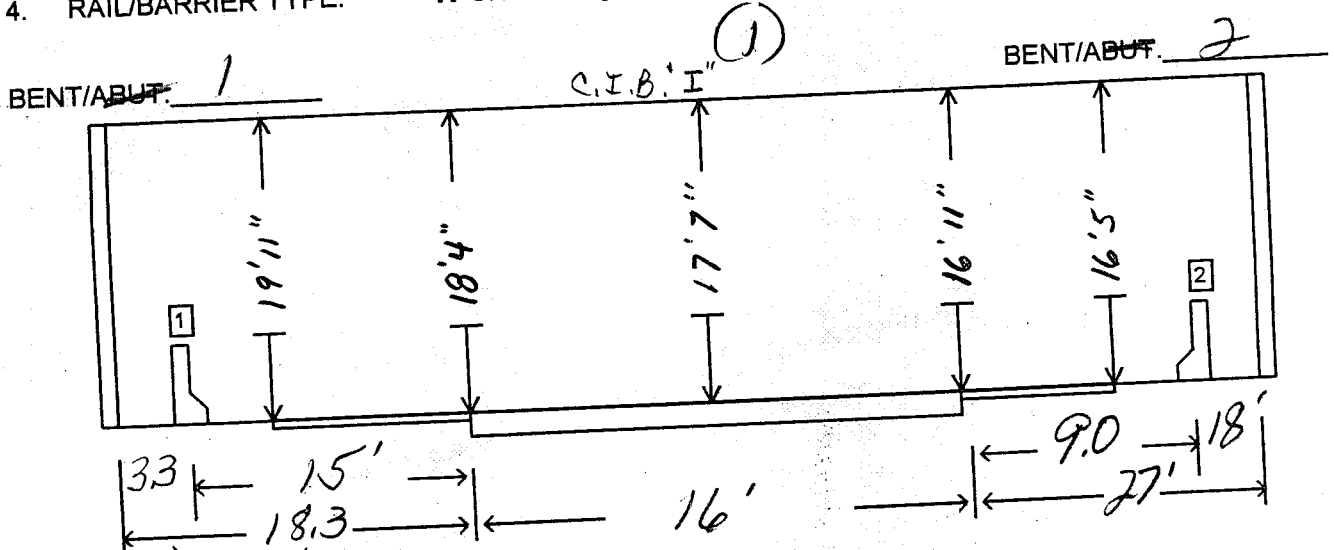
Lt (2)

LATERAL AND VERTICAL CLEARANCES

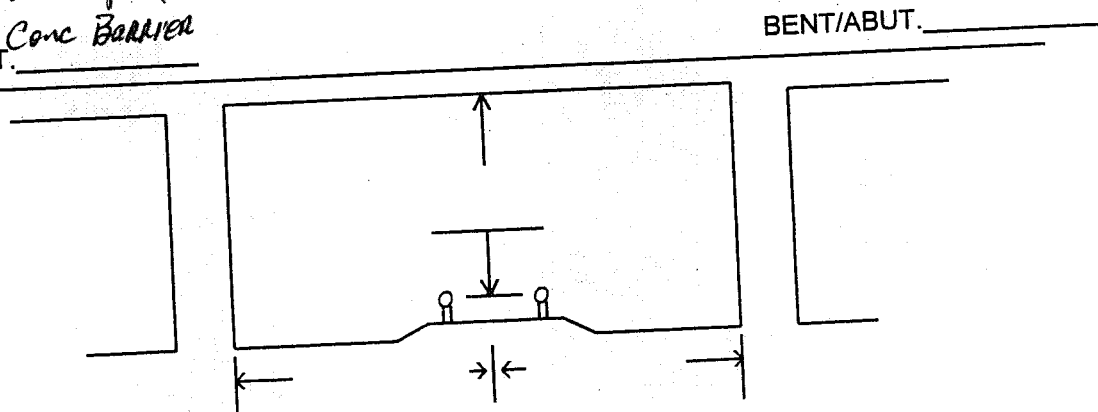
Rt (3)
4



- | | | | | | | |
|-----------------------|---------|--------------------------|---------------|--------------------------|------|--------------------------|
| 1. RAIL/BARRIER TYPE: | W-SHAPE | <input type="checkbox"/> | CONC. BARRIER | <input type="checkbox"/> | NONE | <input type="checkbox"/> |
| 2. RAIL/BARRIER TYPE: | W-SHAPE | <input type="checkbox"/> | CONC. BARRIER | <input type="checkbox"/> | NONE | <input type="checkbox"/> |
| 3. RAIL/BARRIER TYPE: | W-SHAPE | <input type="checkbox"/> | CONC. BARRIER | <input type="checkbox"/> | NONE | <input type="checkbox"/> |
| 4. RAIL/BARRIER TYPE: | W-SHAPE | <input type="checkbox"/> | CONC. BARRIER | <input type="checkbox"/> | NONE | <input type="checkbox"/> |

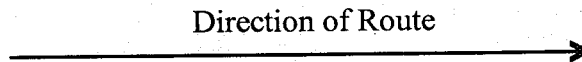


- (1) - W-Shape
(2) - Conc Barrier



MAR 04 2013

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



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

