STRUCTURE NO. 00712

ROUTE 124

over

ROUTE 15

NEW CANAAN

Special Inspection

on

3/26/2012

{ PROJECT # 135-270
ADV. 1/16/2013

Inspected by Team 9

for Area 9

TEAM:	Forwarded to TE3 Parviz Mirzaee	Date	4/11/2012
TE3:	Reviewed by TE3 PARVIZ MIRZAEE	Date	4/17/2012
	BMM Required	NO	
	Town Bridge	NO	
	Rating <= 5 (Items 58,59,60 or 62)	YES	
	Rating Change 2 or More Values	NO	
	Forwarded to Supervisor T. LAPIERRE	Date	5/10/2012
	Forwarded to "To Be Copied Drawer" ☐	Date	
	Date BRI-19 Entered	5/9/2012 ~~4/20/2012~~	
SUPERVISOR:	Reviewed by Supervisor TDL	Date	5/18/12
SUPPORT:	Date Copies Made 6/2/12	BMM No	
	Scanned By: LA Date Scanned 6/2/12	PDF Box No	

NBI: Yes

State of Connecticut
Department of Transportation
Bureau of Engineering and Construction

Inspection Report Transmittal Form
Form BRI-27, Rev. 8/09

Structure No.	00712	**Town**	New Canaan
Inspection Date	3/26/2012	**Inspectors**	Team 9

TABLE OF CONTENTS

Loose Forms (not bound in report)

		Number of Sheets Enclosed
Maintenance Memo		0
Flagging Memos		0
PONTIS Element Data Collection Form		0
Plan Sheets	Already on File ☐	0

Bound Report Pages

Title Cover Sheet		1
Table of Contents		1
Executive Summary		0
Field Notes		0
Calculations:	Load Rating Evaluation	0
	Quantities & Cost Estimate	0
Photo Sheets		1
Photo Images		2

Forms

BRI-19 Highway Bridge Inventory Form	2
BRI-20 Non-Routine Bridge Inspection Report	2

Comments:

(1) Sketch Sheet

Bridge Number **00712**

Inspected By: M. Silveria & J. Chavez

Sufficiency Rating 68.00

Previous Inspection Date 3/22/2011

BS&E Received ☐ Data Entry By: PM

Copies Made ☐ Data Entry Date: 4/20/2012

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
BRIDGE SAFETY & EVALUATION

STRUCTURE EVALUATION

SHEET 1 OF 2 FORM BRI-19 REV 10/00

SHEET_____ OF_____

90) Inspection Date	Inspection Team	91) Frequency	Class:
	20	24	02
Indepth Insp	**Deck Survey**	**Access**	**Flagman**
1/22/2009	~~1/1/1900~~ Blank	0	

RED FLAG ☐

CRITICAL FEATURE INSPECTIONS

	Type	Frequency	Team	Date	
Fracture:					
Uwater:					
Special:	H	12	9	3/22/2011	3/26/12

IDENTIFICATION

Bridge Name

Town Name NEW CANAAN Town Code 50580

5) Inventory Route:
- A) Record Type 1
- B) Signing Prefix 3 State Highway
- C) Level of Service 1 Mainline
- D) Route Number 00124
- E) Directional Suffix 0 NA

6) Feature Intersected ROUTE 15

7) Facility Carried: ROUTE 124

9) Location EXIT 37 ROUTE 15

11) Milepoint 3.08 Miles

16) Latitude 41deg 7 min .00 sec

17) Longitude 73deg 28 min 54.00 sec

98) Border Bridge:
- A) State Code
- B) Percent Responsibility %
- C) Border Town Name

99) Border Bridge Structure No

STRUCTURE TYPE AND MATERIAL

43) Structure Type, Main:
- A) Material 1 Concrete
- B) Design Type 7 Frame (except frame

44) Structure Type, Approach:
- A) Material 0 Other
- B) Design Type 0 Other

45) Number of Spans, Main Unit 1

46) Number of Approach Spans 0

107) Deck Structure Type 1 Concrete Cast-in-Place

108) Wearing Surface/Protective System:
- A) Type of Wearing Surface 6 Bituminous
- B) Type of Membrane 1 Built-up
- C) Type of Deck Protection 0 None

AGE AND SERVICE

27) Year Built 1937 106) Year Reconstructed 1997

42) Type of Service:
- A) On 1 Highway B) Under 1 HIGHWAY

28) Number of Lanes:
- A) On 2 B) Under 4

29) Average Daily Traffic 9900 9700 Half ADT?: No

109) Percent Truck 5%

30) Year of ADT 2009 2010

19) Bypass, Detour Length miles

GEOMETRIC DATA

48) Length of Max Span 68ft

49) Structure Length 79ft

50) Curb or Sidewalk Widths:
- A) Left 0.6ft B) Right 0.6ft

51) Brg Rdwy width,curb-curb 45.0ft

52) Deck Width, Out-Out 51.5ft

32) Approach Roadway Width 45ft

33) Bridge Median 0 No Median

Deck Area 4068 sqft

34) Skew Angle 23deg

35) Structure Flared 0

10)Inv. Rte. Min. Vert Clearance 99ft 99in

47) Log Inv. Rte. Total Horiz Clr.: 45.0ft

47) RLog Inv. Rte. Total Horiz. Clr.: 0ft

53) Min Vert Clearance Over Bridge 99ft 99in

54) Min Vert Under Clearance H Ref 13ft 3in Ref

55) Min Lat Under Clearance on Right H Ref 2.4ft Ref

56) Min Lat Under Clearance on Left 2.7ft

BRIDGE COMMENTS

Project No. 0135-0270: Proposed Resurf/Safety Improvements CT 15 Stamford to New Canaan.

STRUCTURE EVALUATION

SHEET 2 OF 2 FORM BRI-19 REV 10/00

SHEET_____ OF_____

Bridge Number	00712
Town Name	NEW CANAAN
Facility Carried	ROUTE 124
Feature Crossed	ROUTE 15
NBIS Length	Yes 79

Inspected By: M. Silveira & J. Chavez

CLASSIFICATION

112) NBIS Bridge Length	Yes	
104) Highway System	0	Off System
26) Functional Class	16	Urban Minor Arterial
100) Defense Highway	0	Route is not a STRAHNET Route
101) Parallel Structure	N	No parallel structure exists
102) Direction of Traffic	2	2-way traffic
103) Temporary Structure		
110) Designated National Network	0	Not on national network
20) Toll	3	On Free Road
21) Maintain	1	State Highway Agency
22) Owner	1	State Highway Agency
Report Class	S	STATE
37) Historical Significance	1	On National Register

WATERWAY

DrainageBasinCode			
38) Navigation Control			
39) Navigation Vert Clr.		40) Navigation Horiz Clr.	
116) Vert-Lift Brg Nav Min			
111) Pier Abutment Protection			

PROPOSED IMPROVEMENTS

75A) Type of Work Proposed			
75B) Work Done By			
76) Length of Struct. Improvement	ft		ft
94) Bridge Improvement Cost	$		
95) Roadway Improvement Cost	$		
96) Total Project Cost	$		
97) Year of Improvement Cost Est.			
114) Future ADT		115) Year Future ADT	

List No. PR _____ Project No. 0135-0270 Advertised 1/16/2013

POSTED SIGNS & UTILITIES

Other Posted Signs 1					
Other Posted Signs 2					
Actual P.L. Single Unit Truck	tons		Actual P.L. 4Axle Truck	tons	
Rec. P.L. Single Unit Truck	tons		Rec. P.L. 4Axle Truck	tons	
Actual P.L. Semi-TrailerTruck	tons		Actual P.L. 3S2 Truck	tons	
Rec. P.L. Semi-TrailerTruck	tons		Rec. P.L. 3S2 Truck	tons	
Rec. P.L. All Vehicles	tons		Actual P.L. All Vehicles	tons	
Posted Vert Clearance On Bridge	ft	in		ft	In
Posted Vert UnderClearance	ft	in		ft	In
Posted Speed Limit	mph				mph
Utility					

LOAD RATING AND POSTING

31) Design Load	4	Evaluation Code	L
63) Operating Rating Type	1	Year of Evaluation	2000
64) Operating Rating	66.0	70) Bridge Posting	5
65) Inventory Rating Type	1	41) Structure Status	A
66) Inventory Rating	39.0		

CONDITION

	Rating	By
58) Deck	N	
59) Superstructure	4	
60) Substructure	6	
61) Channel & Chan. Protection	N	
62) Culverts	N	

APPRAISALS

	Rating	By
67) Structure Evaluation	4	PM
68) Deck Geometry	9	
69) Under Clear Vert & Horiz	2	
71) Waterway Adequacy	N	
72) Approach Rdwy Alignment	6	
113) Scour Critical		

Items 58 Thru 72 Checked By: _____

36) Traffic Safety Features:

A) Bridge Railings	0
B) Transitions	0
C) Approach Guardrail	1
D) Approach Guardrail End	1

OTHER FEATURES

Fence Required	No	Barrel Ladder	No
Fence Present	No	Stand Pipes	No
Fence Height	ft	Cat Walks	No
Fence Type		Movable Inspection System	No
Fence Material		Loose Concrete Checked?	Yes
Fence Top Type			

INSPECTION COMMENTS

Proposed Next Indepth Insp Year	2019
Senior	Parviz Mirzaee
Supervisor	Theodore Lapierr

REVIEWED BY: Mary Morgan Date ~~4/17/2012~~ 5/9/2012

BRIDGE NUMBER	TOWN NAME	NBIS BRG LGTH
00712	NEW CANAAN	True 79
FACILITY CARRIED	FEATURE CROSSED	
ROUTE 124	ROUTE 15	

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
DIVISION OF BRIDGE SAFETY EVALUATION

INVENTORY ROUTE UNDER STRUCTURE EVALUATION

FORM BRI-25 REV 10/00

INSPECTED BY: M. Silveria
J. Chavez

REVIEWED BY: P. MURZASK DATE: 4/17/2012

SHEET_____ OF_____ (INSP. REPORT)

IDENTIFICATION

DESCRIPTION:

5) INVENTORY ROUTE:

A) RECORD TYPE	2	
B) ROUTE SIGNING PREFIX	3	State Highway
C) DESIGNATED LEVEL OF SERVICE	1	Mainline
D) ROUTE NO.	00015	
11) MILE POINT (INV.RTE)	14.14	

AGE & SERVICE

+ 28B) NUMBER OF INV.ROUTE LANES	4	
* 29) ADT (INV. RTE)	67100	6830 0
* 109) TRUCK ADT % (INV.RTE)	0	
* 30) YEAR OF ADT (INV. RTE)	2009	2010
* 41) INV ROUTE OPERATIONAL STATUS	R	Posted for other load-ca R
19) BYPASS DETOUR LENGTH	3	Miles

GEOMETRIC DATA

+ 10) INV. RTE. MIN. VERT. CLEARANCE	14 ft 5 in	ft in
+ 47) LOG INV. RTE. TOTAL HORIZ CLR.	28.9 ft	ft
+ 47) RLOG INV. RTE. TOTAL HORIZ CLR.	28.7 ft	ft
+ LOG MIN VERT CLR OVER INV ROUTE	13 ft 0 in	ft in
+ RLOG MIN VERT CLR OVER INV ROUTE	13 ft 1 in	ft in
+ 55) MIN LAT UNDERCLR ON RIGHT	H 2.4 ft	ft
+ 56) MIN LAT UNDERCLR ON LEFT	2.7 ft	ft

CLASSIFICATION

26) INV. RTE. FUNCT CLASSIFICATION	12	Urban Principal Arterial -	
100) DEFENSE HIGHWAY DESIGNATION	0	Route is not a STRAHNE	
** 102) DIRECTION OF TRAFFIC	2	2-way traffic	
104) HIGHWAY SYSTEM OF INV. ROUTE	1	On System	
110) DESIGNATED NATIONAL NETWORK			

POSTED SIGNS

+ POSTED VERT. CLR UNDER BRIDGE	0ft	0in	ft	in

COMMENTS:

No Posted Verticle Under Clearance Signs at this Bridge

* FILL OUT ON EVERY INSPECTION 29, 109, 30, 41

\+ VERIFY EVERY INSPECTION 28B, 10, 47, 53, 55, 56 & POSTED VERT CLEARANCE UNDER THE BRIDGE

** MUST BE FILLED OUT OR VERIFIED ON THE FIRST INSPECTION MADE BASED ON THE NEW FHWA GUIDE 102

8

Connecticut Department of Transportation

Bridge Inspection Report BRI-20

Bridge #: 00712 **Inspection Date: 03/26/2012**

Inspection Type:	Special	**Previous Inspection Date:**	3/22/2011	**Snooper Required:**	No
Inspection Performed By:	Team 9	**Feature Carried:**	ROUTE 124	**Snooper Used:**	No
Town:	NEW CANAAN	**Feature Intersected:**	ROUTE 15	**Year Built:**	1937
Location:	EXIT 37 ROUTE 15	**Main Design:**	7 - Frame (except frame culverts)	**Year Rebuilt:**	1997
Main Material:	1 - Concrete				

Special Insp Type:	H
Special Insp Freq:	12
Fracture Insp Type:	-
Fracture Insp Freq:	-
BUW Insp Freq:	-

Visits

Visit Date:	Temp:	Start Time:	End Time:
3/26/2012	48	2:15:00 PM	2:45:00 PM

Inspectors:

Inspector:	Task:
J. Chavez	Inspector
M. Silverio	Lead Inspector

Feature Inspected:

Frame Intrados and Fascias.

Inspected from the ground behind the metal beam rail at all four corners.

Inspection Results:

Longitudinal and random cracks (with and without efflorescence), hairline to 1/16", some with dampness also.

Spalls with exposed rebar, some with water leakage.

Hollow areas.

No loose concrete was found this inspection. Loose concrete has been removed in the past.

See the attached sketch sheet and photos 1 - 4.

Continue special inspection every 12 months.

Action To Be Taken: Bridge to be repaired under Project # 135-270.

inspectors' signatures:

1) _____ date: 5/8/12

2) _____ date: 5/8/12

3) _____ date: ----/----/---

4) _____ date: ----/----/---

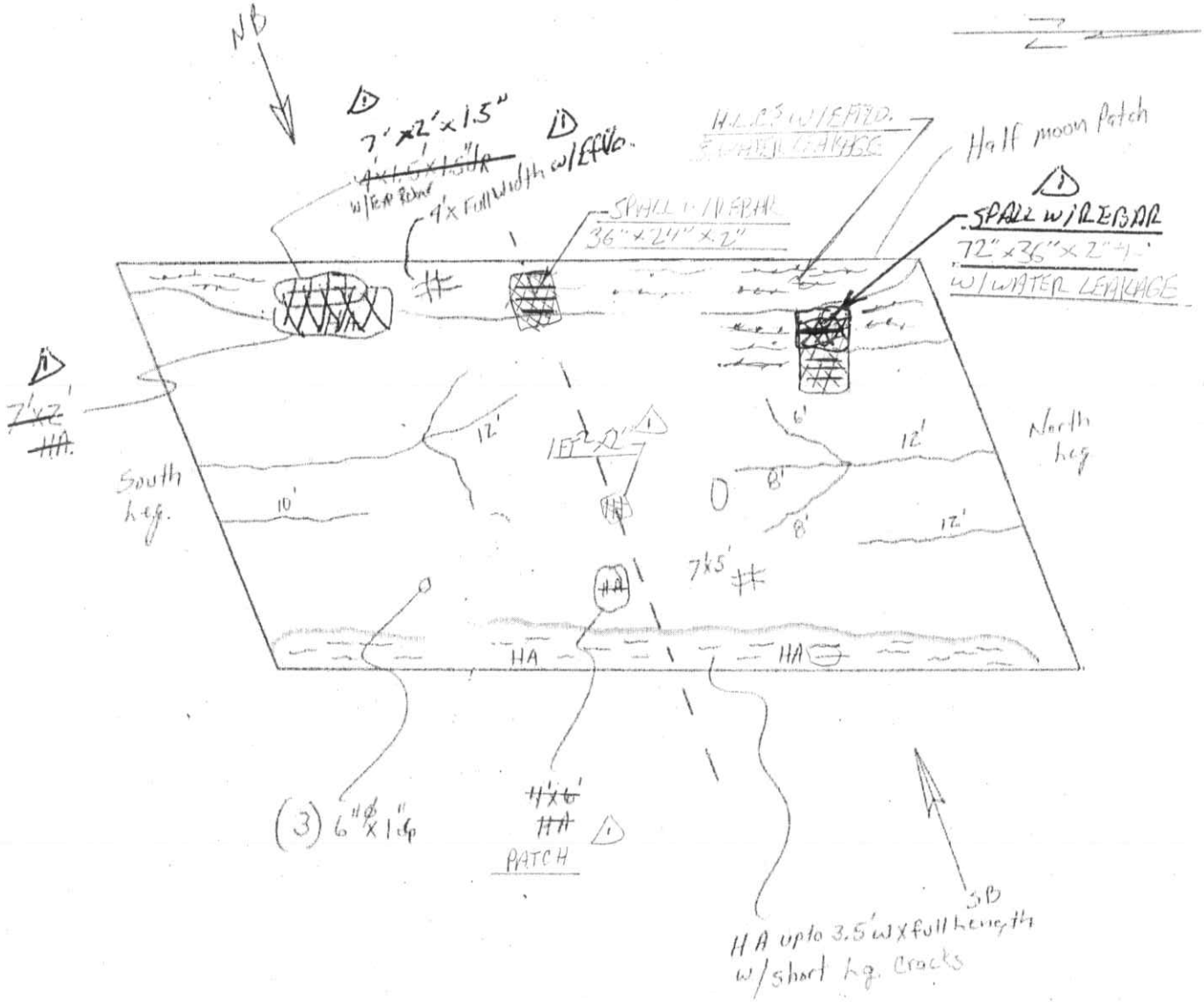
p.e. signature: _____ date: ----/----/---

p.e.#: _____ date: ----/----/---

reviewed by: _____ conndot date: 4/17/2012

	BRIDGE NO: 00712	DATE: 3/22/2011
	CREW: Team 6	SHEET 11 of 13
	☐ Field Original	☐ Transcribed By: _____

DESCRIPTION: Uside OF DECK Route 124 o/Rte 15, New Canaan



LEGEND

- HOLLOW AREA
- SHALLOW REBAR
- SPALL AREA
- SPALL AREA WITH EXPOSED REBAR
- MAP CRACKS (MaC) OR HAIRLINE MAP CRACKS (HLMaC)
- HAIRLINE CRACK (HLC) OR CRACKS (CRK)
- HONEY COMB AREA
- SCALE AREA (HVY, MED OR LT)
- X WITH EFFLORESCENCE

REV. NO:	DATE:	COMPANY:	CREW:
1	3/26/12	D.O.T.	Team 9

Bridge No.	00712	**Inspected by:**	MARK SILVERIO
Town:	NEW CANAAN	**Inspected by:**	JOHN CHAVEZ
Feature Carried:	RT-124	**Date Inspected:**	3-26-2012
Feature Crossed:	RT-15	**Project No.:**	

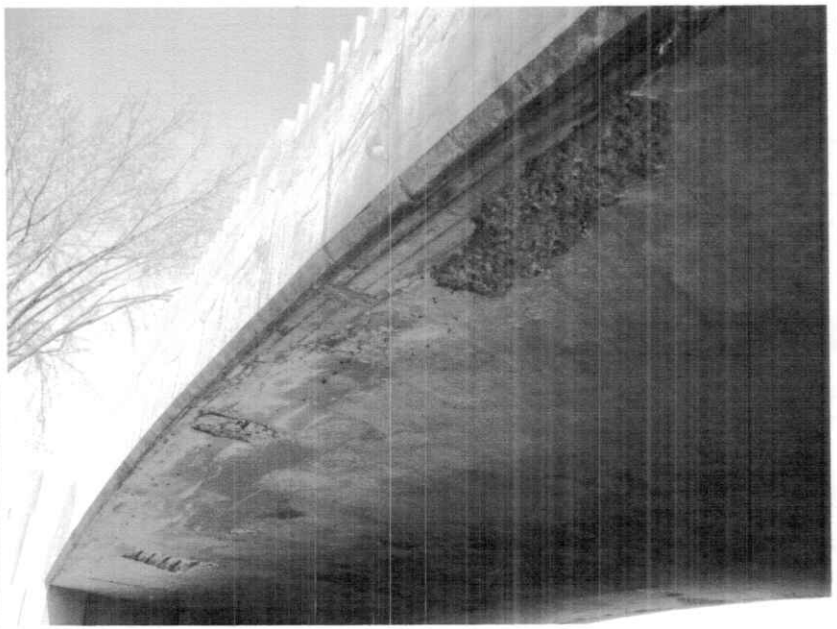


Photo # 1: View Of West Fascia & Underside.

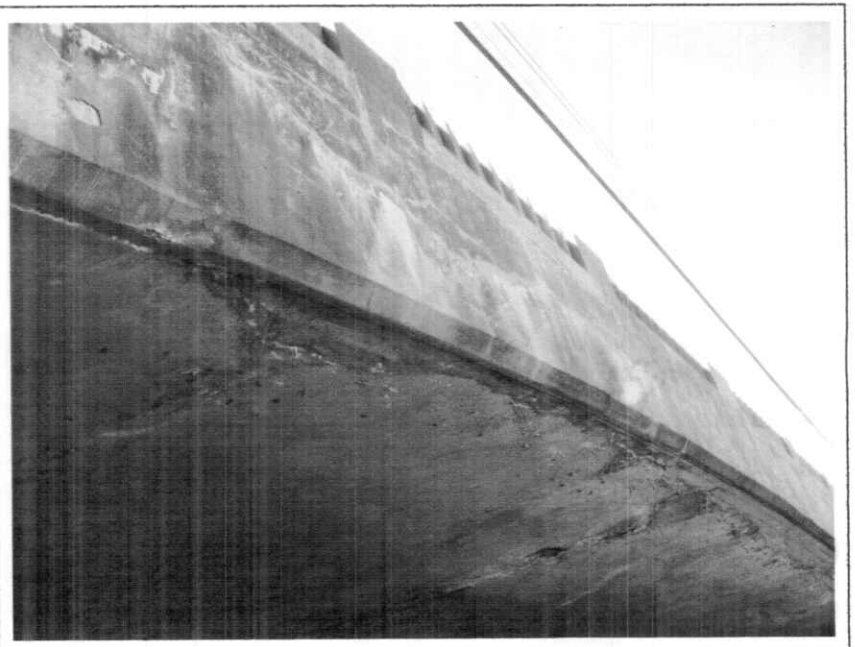


Photo # 2: View Of East Fascia & Underside.

Bridge No.	00712	**Inspected by:**	MARK SILVERIO
Town:	NEW CANAAN	**Inspected by:**	JOHN CHAVEZ
Feature Carried:	RT - 124	**Date Inspected:**	3-26-2012
Feature Crossed:	RT - 15	**Project No.:**	

Photo # 3: Underside – Looking from northwest corner.

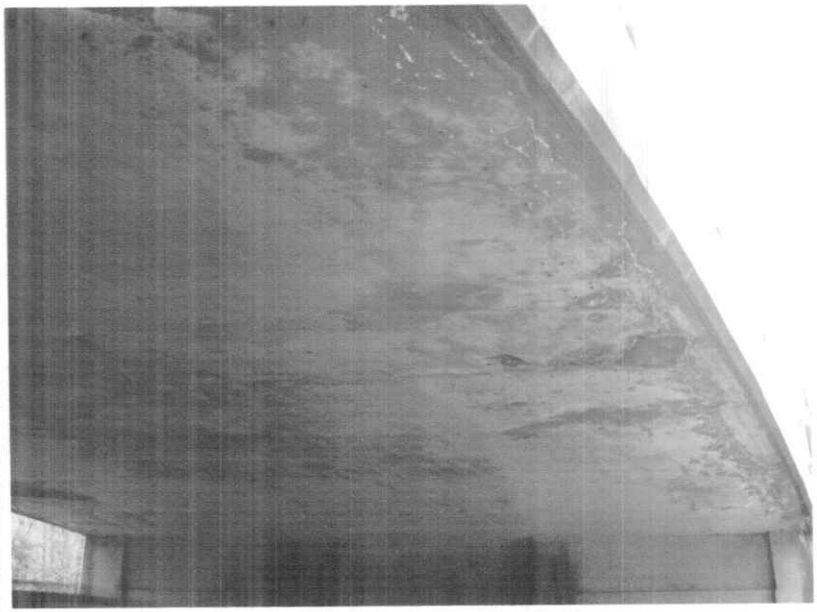


Photo # 4: Underside – Looking from southeast corner.