Structure No. 0 0702

River Bank Road

over

Route 15 {Merritt Parkway}

Stamford

Route 15 - Mile Point 8.60

Supplemental Inspection
on
22-Jan-10

Inspected By Team No. 8

For Area No. 8

TEAM:	Forwarded to T.E. 3: D PAWLIKOWSKI	Date: 2.3.10
T.E. 3:	Reviewed By T.E. 3: D PAWLIKOWSKI	Date: 2.3.10
	BMM Required	YES
	Town Structure	NO
	Rating <= 5 {Item Nos. 58, 59, 60, 61 or 62}	YES
	Forwarded to Supervisor:	Date:
	Forwarded to "To Be Copied Drawer"	Date:
	Date BRI-19 Entered 2.3.10	
SUPERVISOR:	Reviewed By Supervisor:	Date: 7 6 8 2010
Support:	Date Copies Made:	BMM No.
	Scanned By:	Date: PDF Box No.:

NBIS: Yes

Last Inspection: January 4, 2010

Yellow Flag Report

State of Connecticut - Department of Transportation
Bureau of Engineering & Construction
Bridge Safety & Evaluation

Bridge No.: 0 0702 **Town:** Stamford

Location: River Bank Road over Route 15 {Merritt Parkway}

Inspection Date: January 22, 2010

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BRI-19 Structure Evaluation Form	2
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Vertical Clearance Diagram	1
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Bridge Number **00702**

Inspected By: Ferrara & Holbridge

Sufficiency Rating 50.51

Previous Inspection Date 1/4/2010

BS&E Received ☐ Data Entry By: DP

Copies Made ☐ Data Entry Date: 2.3.10

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
BRIDGE SAFETY & EVALUATION

STRUCTURE EVALUATION

SHEET_____ OF_____ (INSP. REPORT)

90) Inspection Date	Inspection Team	91) Frequency	Class:
	8	24	02
Indepth Insp	Deck Survey	Access	Flagman
12/9/2007	1/1/1900 12:	21	0

CRITICAL FEATURE INSPECTIONS

	Type	Frequency	Team	Date
Fracture:				
Uwater:				
Special:	Z		0 8	1.22.10

RED FLAG

IDENTIFICATION

Bridge Name

Town Name STAMFORD Town Code 73070

5) Inventory Route:

A) Record Type 1 D) Route Number 00000

B) Signing Prefix 5 City Street E) Directional Suffix 0 NA

C) Level of Service 0 None of the bel

6) Feature Intersected ROUTE 15

7) Facility Carried: RIVER BANK ROAD

9) Location 0.8 MI E OF TOWN LINE

0.9 MI S OF ROUTE 104

11) Milepoint 1.00 Miles 0.120

16) Latitude 41deg 6 min 24.00 sec deg min sec

17) Longitude 73deg 34 min 54.00 sec deg min 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 culverts)

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 N Not Applicable

108) Wearing Surface/Protective System:

A) Type of Wearing Surface N Not Applicable

B) Type of Membrane N Not Applicable

C) Type of Deck Protection N Not Applicable

AGE AND SERVICE

27) Year Built 1937 106) Year Reconstructed

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 4690 Half ADT?: No

109) Percent Truck 4%

30) Year of ADT 2009

19) Bypass, Detour Length 2miles

GEOMETRIC DATA

48) Length of Max Span 65ft 64.66 FT

49) Structure Length 74ft 64.66 FT 65

50) Curb or Sidewalk Widths:

A) Left 1.3ft 1.0 0.96 FT B) Right 1.3ft 1.0 0.96 FT

51) Brg Rdwy width,curb-curb 30.0ft 30.00 FT

52) Deck Width, Out-Out 35.2ft 35.17 FT

32) Approach Roadway Width 27ft

33) Bridge Median 0 No Median

64.66 FT x 35.17 FT Deck Area 2605 sqft 2274.1 SF 2274

34) Skew Angle 15deg 13°-00'-00" 13

35) Structure Flared 0

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

47) Log Inv. Rte. Total Horiz Clr.: 30.0ft 30.00 FT

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

53) Min Vert Clearance Over Bridge 99ft 99in ft in

54) Min Vert Under Clearance H Ref 12ft 4in Ref ft in

55) Min Lat Under Clearance on Right H Ref 2.4ft H Ref 8.3 ft

56) Min Lat Under Clearance on Left 2.4ft 00.0 ft

BRIDGE COMMENTS

Supplemental inspection ON Deck underside
DONE ON 1/22/2010

SPECIAL INSPECTION - Z - RC FRAME UNDERSIDE & SPANDREL WALLS - DELAMINATED & LOOSE CONCRETE -
DP 1.28.10

STRUCTURE EVALUATION

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

SHEET_____ OF_____

Bridge Number	00702	NBIS Length	
Town Name	STAMFORD	Yes 74	
Facility Carried	RIVER BANK ROAD		
Feature Crossed	ROUTE 15		

Inspected By: Ferrara & Holdrige

CLASSIFICATION

112) NBIS Bridge Length	Yes	
104) Highway System	0	Off System
26) Functional Class	17	Urban Collector
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 12/2/2009

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	12 ft 4 in			ft	In
Posted Speed Limit	mph			25	mph
Utility					

LOAD RATING AND POSTING

31) Design Load	4		Evaluation Code	J
63) Operating Rating Type	2		Year of Evaluation	1980
64) Operating Rating	76.0	58.0	70) Bridge Posting	5
65) Inventory Rating Type	2		41) Structure Status	A
66) Inventory Rating	23.0	34.0	Open, no restriction	

CONDITION

	Rating	By
58) Deck	N	
59) Superstructure	5	4 DP
60) Substructure	6	
61) Channel & Chan. Protection	N	
62) Culverts	N	

APPRAISALS

	Rating	By
67) Structure Evaluation	5	4 DP
68) Deck Geometry	4	
69) Under Clear Vert & Horiz	3	2 DP
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	0
D) Approach Guardrail End	0

OTHER FEATURES

Fence Required	No	Barrel Ladder	No	
Fence Present	No	Stand Pipes	No	
Fence Height	0.0 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	2017
Senior	Ron Jantzen
Supervisor	Joseph Kozlowsk

REVIEWED BY: Date 2.3.10

CT DEP NO 20857

BRIDGE NUMBER	TOWN NAME	NBIS BRG LGTH	
00702	STAMFORD	Yes	74
FACILITY CARRIED	FEATURE CROSSED		
RIVER BANK ROAD	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: FERRARA
HOLDRIDGE

REVIEWED BY: DATE:

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)	8.60	

CLASSIFICATION

26) INV. RTE. FUNCT CLASSIFICATION	12	Urban Principal Arterial -
100) DEFENSE HIGHWAY DESIGNATION	1	Route is on a Interstate S
** 102) DIRECTION OF TRAFFIC	2	2-way traffic
104) HIGHWAY SYSTEM OF INV. ROUTE	1	On System
110) DESIGNATED NATIONAL NETWORK		ON NATIONAL NETWORK 1

AGE & SERVICE

+ 28B) NUMBER OF INV.ROUTE LANES	4	
* 29) ADT (INV. RTE)	55300	
* 109) TRUCK ADT % (INV.RTE)	1	
* 30) YEAR OF ADT (INV. RTE)	2008	
* 41) INV ROUTE OPERATIONAL STATUS	R	Posted for other load-ca
19) BYPASS DETOUR LENGTH	3	Miles

POSTED SIGNS

+ POSTED VERT. CLR UNDER BRIDGE 12ft 4in ft in

COMMENTS: POSTED 12 FT · 4 in · ROUTE 15 NORTH BOUND
POSTED 12 FT · 6 in · ROUTE 15 SOUTH BOUND

GEOMETRIC DATA

+ 10) INV. RTE. MIN. VERT. CLEARANCE	14 ft 8 in	14 ft 09 in	ROUTE 15 SB
+ 47) LOG INV. RTE. TOTAL HORIZ CLR.	28.7 ft	28.58 FT 28.6 ft	ROUTE 15 NB
+ 47) RLOG INV. RTE. TOTAL HORIZ CLR.	29 ft	28.80 FT 28.8 ft	ROUTE 15 SB
+ LOG MIN VERT CLR OVER INV ROUTE	11 ft 8 in	ft in	ROUTE 15 NB
+ RLOG MIN VERT CLR OVER INV ROUTE	12 ft 9 in	12 ft 07 in	ROUTE 15 SB
+ 55) MIN LAT UNDERCLR ON RIGHT	2.25 FT H 2.4 ft	H 2.3 ft	ROUTE 15 SB
+ 56) MIN LAT UNDERCLR ON LEFT	2.4 ft	0.0 ft	

* 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 #: 00702 **Inspection Date: 01/22/2010**

Inspection Type:	Other	**Previous Inspection Date:**	1/4/2010	**Snooper Required:**	No
Inspection Performed By:	Team 8	**Feature Carried:**	RIVER BANK ROAD	**Snooper Used:**	No
Town:	STAMFORD	**Feature Intersected:**	ROUTE 15	**Year Built:**	1937
Location:	0.8 MI E OF TOWN LINE	**Main Design:**	7 - Frame (except frame culverts)	**Year Rebuilt:**	-
Main Material:	1 - Concrete				

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

Visits

Visit Date:	Temp:	Start Time:	End Time:
1/22/2010	40	10:15:00 AM	2:00:00 PM

Inspectors:

Inspector:	Task:
A. Ferrara	Lead Inspector
M. Holdridge	Inspector
D. Pawlikowski	Senior Engineer

Feature Inspected:

Supplemental inspection of underside, Frame legs and fascias.
Vertical clearance sketch.

R.C. Rigid Frame Intrados – Condition Rating "4" –
• The intrados has approximately 30 percent map hairline crack with or without efflorescence and approximately 9 percent hollow areas and potential spalls –
• Numerous random areas of light scale – several random areas of hairline cracks with or without efflorescence – {2} isolated areas of large surface spalls with exposed rebar – several random hollow areas and potential spalls – several hollow areas have hairline cracks with or without efflorescence and loose and punky concrete – several random transverse and longitudinal hairline cracks – several vertical hairline cracks located under the spandrel wall extend vertically into the rigid frame end face and continues into the spandrel wall -
• The longitudinal construction joint has active leakage, heavy efflorescence and

Inspection Results:

stag candles -

R.C. Rigid Frame Spandrel Walls –
• Several random areas of light to moderate scale – several random areas of hairline cracks with or without efflorescence – several random vertical and horizontal hairline cracks , open up to approximately 1/8 inch – {2} isolated vertical cracks extend into the concrete rail base and parapet, east spandrel wall –
• West spandrel wall and rigid frame end face –
o A concrete patched area {rigid frame end face and under spandrel wall}, located over Route 15 north bound, has hairline cracks with active leakage, rust stains and efflorescence –
o {1} isolated area of large surface spall with exposed rebar and punky and hollow concrete, approximately 7 feet long by 1 foot high by 8 inches deep – with adjacent hollow area, approximately 20 square feet – located over Route 15 south bound high speed lane –
o {1} isolated area of large surface spall with exposed rebar and punky and hollow concrete, approximately 10 feet long 20 inches high by 8 inches deep – with adjacent hollow area, approximately 56 square feet – located over Route 15 south bound slow speed lane and right shoulder -

R.C. Rigid Frame Legs – Condition Rating "6" –
• Several random vertical hairline cracks up to full height with and without efflorescence and active leakage – the crack width is up to approximately 1/16 inch – several vertical hairline cracks extend longitudinally in to the rigid frame intrados -

Action To Be Taken:

Remove loose and punky concrete.
Hollow areas have been marked.

inspectors' signatures:

1) date: 2/3/2010

2) date: 2/3/2010

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

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

p.e. signature: date: 2/3/10

p.e.#: 20857 date: ----/----/---

reviewed by: conndot date: 2/3/10

Blank

Abutment Stem Work Sheet

Bridge No.: 0 0702
Town: Stamford
Facility Carried\Feature Intersected: River Bank Road over Route 15 {Merritt Parkway}

Abutment Stem No. or Nos.: Abutment Nos. 1 & 2

Abutment Stem Design Type: Full Height\Closed Abutments

Abutment Stem Material Type: Concrete

Abutment Stem Foundation Type: Footings Founded on Rock

Item No. 113 Scour Critical: - N - Bridge Not Over Waterway

Tidal: Yes or No **Rip Rap**: Yes or No

Exposed Footing: Yes or No

Footing Undermining: Yes or No

Sheet Piles - Timber or Steel: Yes or No

Bed Rock: Yes or No **Concrete Apron:** Yes or No

Abutment Stem - In Water or Out of Water - At Normal Stage:

Normal Stage - The water stage prevailing during the greater part of the year.

Comments: Bridge Plans - Project No. 180 -07J - Year 1936

Prepared By: David Pawlikowski, P.E.
CTDOT - Bridge Safety

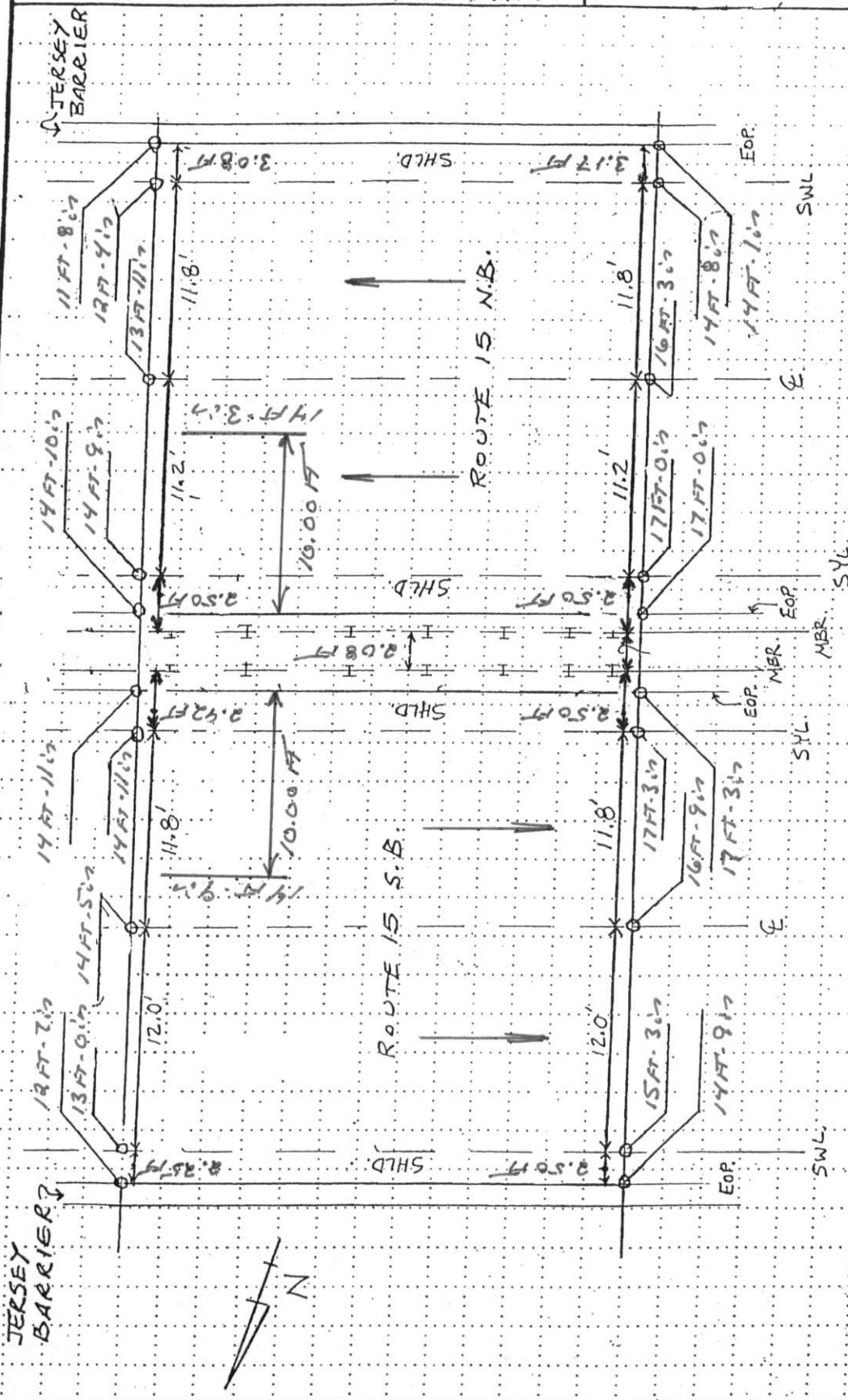
Date: January 25, 2010

SUPPLEMENTAL SHEET

☐ FIELD ORIGINAL ☐ TRANSCRIBED BY: ____

JOB NO.	BRIDGE NO. 00702
DATE: 1.22.10	SHEET OF
CREW: CTDOT - TEAM NO 8	

DESCRIPTION: CLEARANCE DIAGRAM

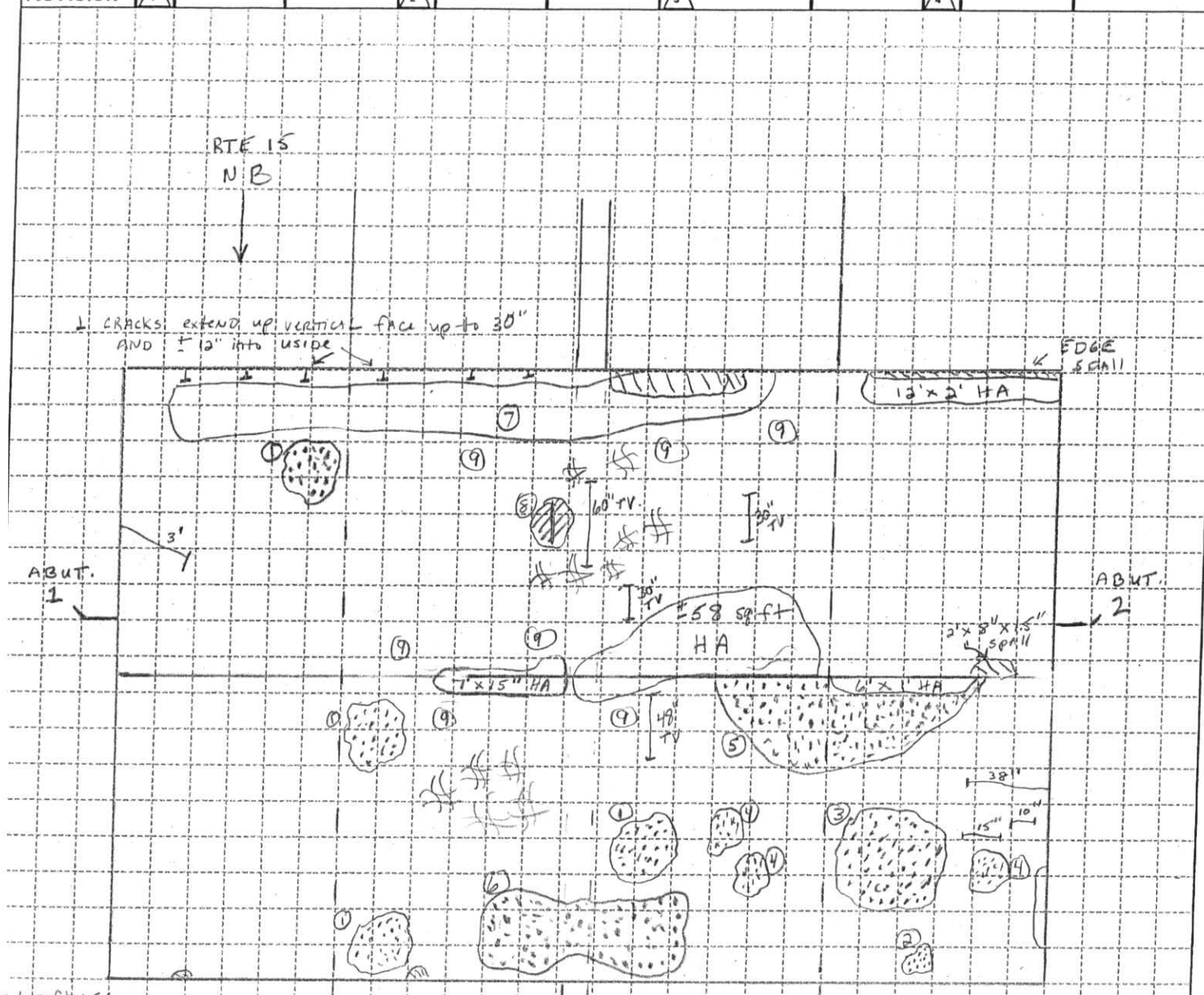


BRIDGE NO 00702 - STAMFORD - RIVER BANK ROAD OVER ROUTE 15

SHLD → Shoulder
SWL → SOLID WHITE LINE
EOP → EDGE OF PAVEMENT
SYL → SOLID YELLOW LINE
NBR → METAL BEAM RAIL

BRIDGE NO: 00702	TOWN: STAMFORD	ROUTE/STREET: RIVER BANK ROAD	DATE PREPARED: 1/28/10
UNIT NO: 1307	TEAM NO: 8	OVER ROUTE/STREET: ROUTE 15	PREPARED BY: MDH
DRAWING TYPE: UNDERSIDE SKETCH.			SHEET NO.

Revision	1	Date	Team	2	Date	Team	3	Date	Team	4	Date	Team



1) 6 sq ft LSC
2) 1.5 " LSC
3) 10 sq ft LSC
4) 2 sq ft LSC
5) ± 40 sq ft LSC
6) ± 45 sq ft LSC
7) 36' x 3' wide HA
8) 2' x 2' spall w/exposed Rebar
9) Large areas of branded Longitudinal cracks
(Left off sketch for clarity)

LEGEND

- HOLLOW AREA
- SHALLOW REBAR
- SPALL AREA
- SPALL AREA WITH EXPOSED REBAR
- MAP CRACKS (MpC) OR HAIRLINE MAP CRACKS (HLMpC) WITH AND WITHOUT EFFlo.
- HAIRLINE CRACKS (HLC) OR CRACKS (CRK)
- HONEY COMB AREA
- SCALE AREA (HVY, MED OR LT)

— NOT TO SCALE

BRIDGE NO: 00702	TOWN: STAMFORD	ROUTE/STREET: RIVER BANK ROAD	DATE PREPARED: 1/28/10
UNIT NO: 1307	TEAM NO: 8	OVER ROUTE/STREET: ROUTE 15	PREPARED BY: MDH
DRAWING TYPE: UNDERSIDE SKETCH.			SHEET NO.

Revision	1	Date	Team	2	Date	Team	3	Date	Team	4	Date	Team

HOLLOW AREA (A) 108 SF

(B) 24 SF

(C) 8.75 SF

(D) 58 SF

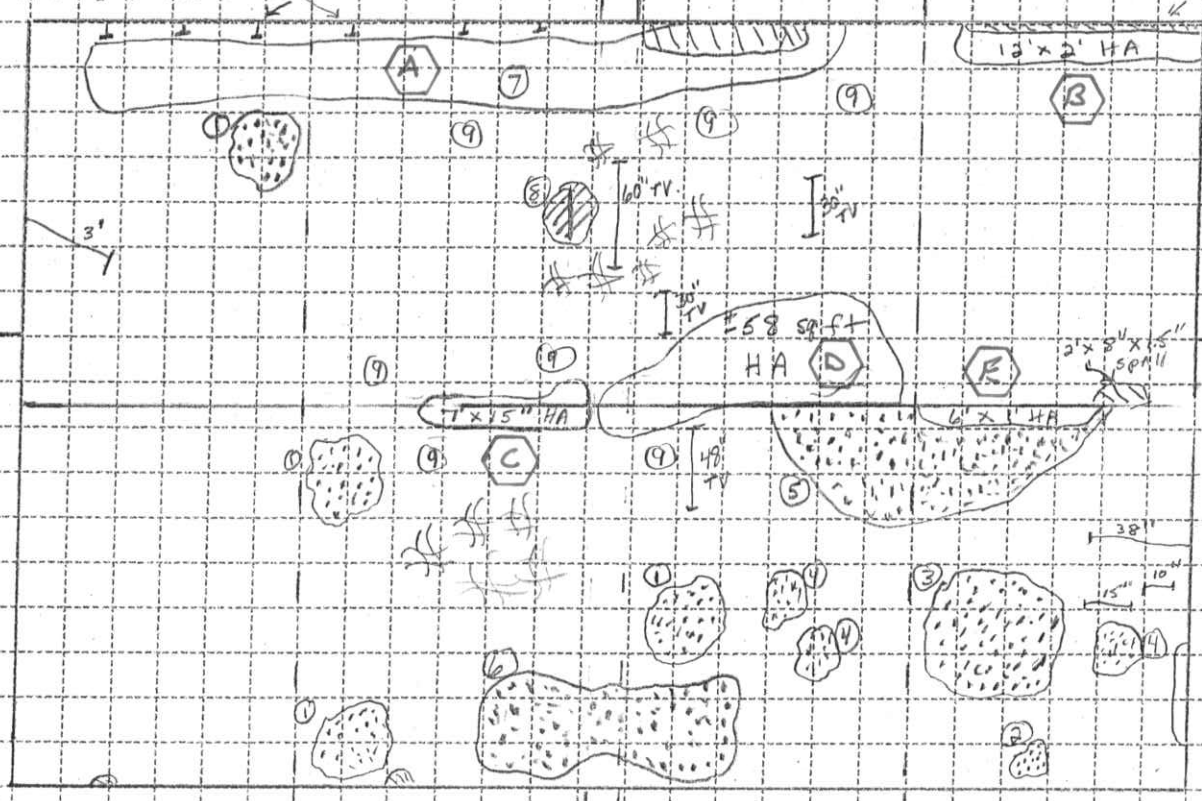
(E) 6 SF

total HOLLOW AREA 204.75 SF

APPROX 9% INTRADOS

RTE 15 NB

± CRACKS extend up vertical face up to 30" AND ± 12" into inside



RTE 15 SB

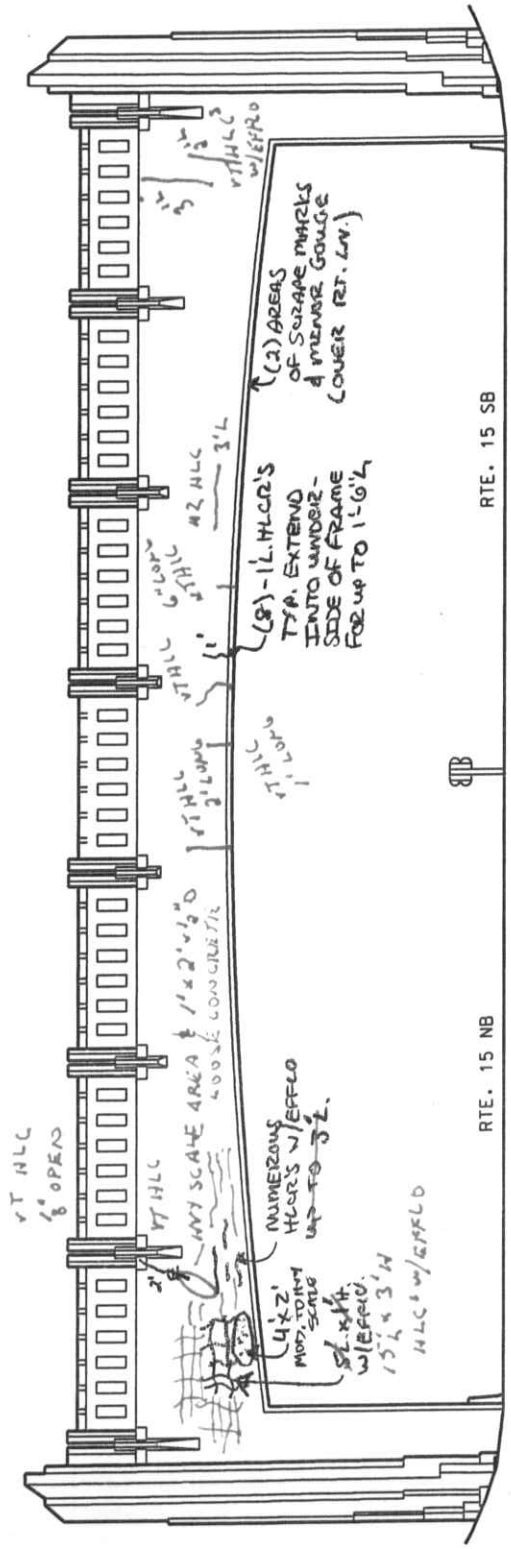
① 6 sq ft LSC
② 7.5' LSC
③ 10 sq ft LSC
④ 2 sq ft LSC
⑤ ± 40 sq ft LSC
⑥ ± 46 sq ft LSC
⑦ 36' x 3' WIDE HA
⑧ 2' x 2' SPALL w/exposed REBAR
⑨ LARGE AREAS of bracided Longitudinal cracks (Left off sketch for clarity)

LEGEND

- HOLLOW AREA
- SHALLOW REBAR
- SPALL AREA
- SPALL AREA WITH EXPOSED REBAR
- MAP CRACKS (MpC) OR HAIRLINE MAP CRACKS (HLMpC) WITH AND WITHOUT EFFLO.
- HAIRLINE CRACKS (HLC) OR CRACKS (CRK)
- HONEY COMB AREA
- SCALE AREA (HVY, MED OR LT)

— NOT TO SCALE

HAKS FIELD NOTES	JOB NO.170-2729	BRIDGE NO. 00702
	DATE: 12/9/07	SHEET
	CREW: EJL, MJW, ZM	



FASCIA - EAST ELEVATION

NTS

GENERAL NOTES:

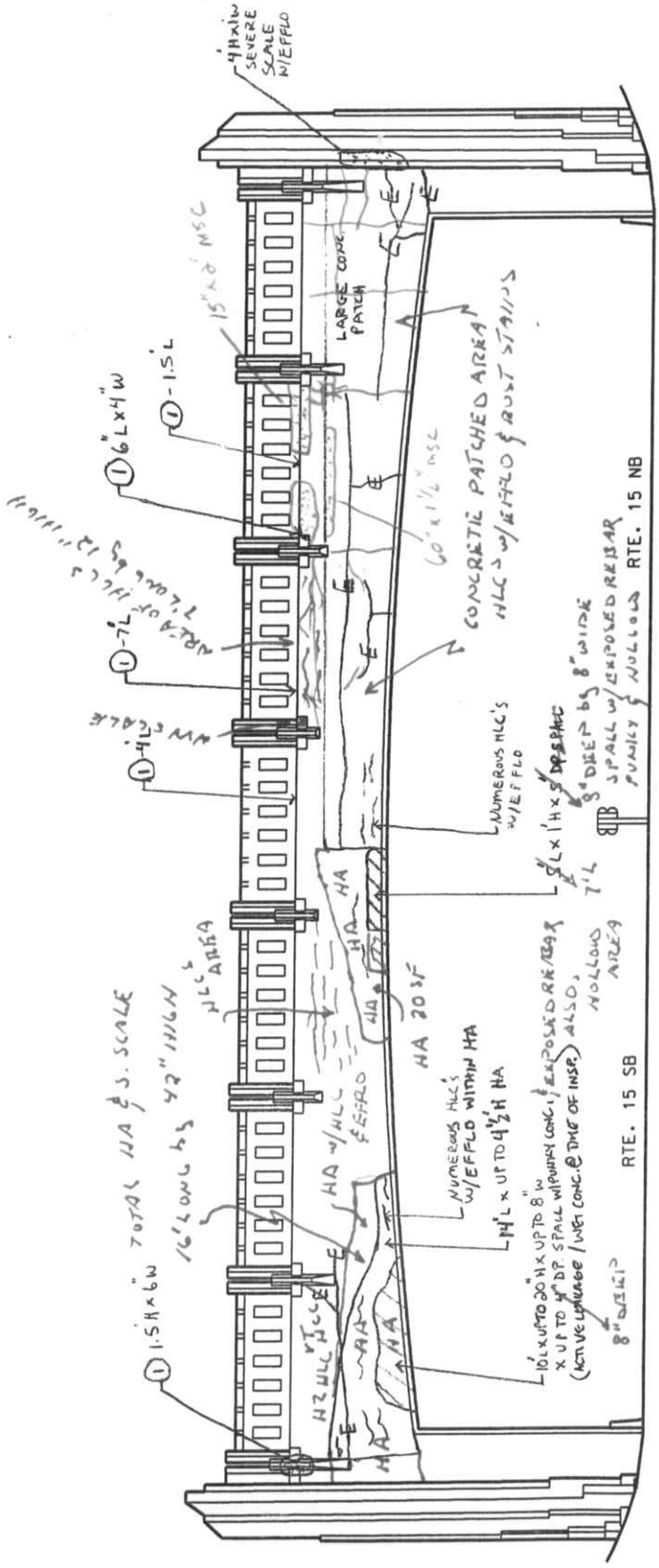
- LT. TO MOD. SCALE AT RAND. LOC.'S

LEGEND:

- HOLLOW AREA
- SHALLOW REBAR
- SPALL AREA
- SPALL AREA WITH EXPOSED REBAR
- MAPCRACKS
- MAPCRACKS WITH EFFLORESCENCE
- HAIRLINE CRACKS
- HAIRLINE CRACKS WITH EFFLORESCENCE
- HONEYCOMB AREA

REVISION 1	DATE 1/22/10	CREW TM 8 NOTE CHANGES IN RED	REVISION 3	DATE	CREW
REVISION 2	DATE	CREW	REVISION 4	DATE	CREW

HAKS FIELD NOTES	JOB NO.170-2729	BRIDGE NO. 00702
	DATE: 12/9/07	SHEET
	CREW: EJL, MTW, ZM	



EASCIA - WEST ELEVATION
NTS

GENERAL NOTES:

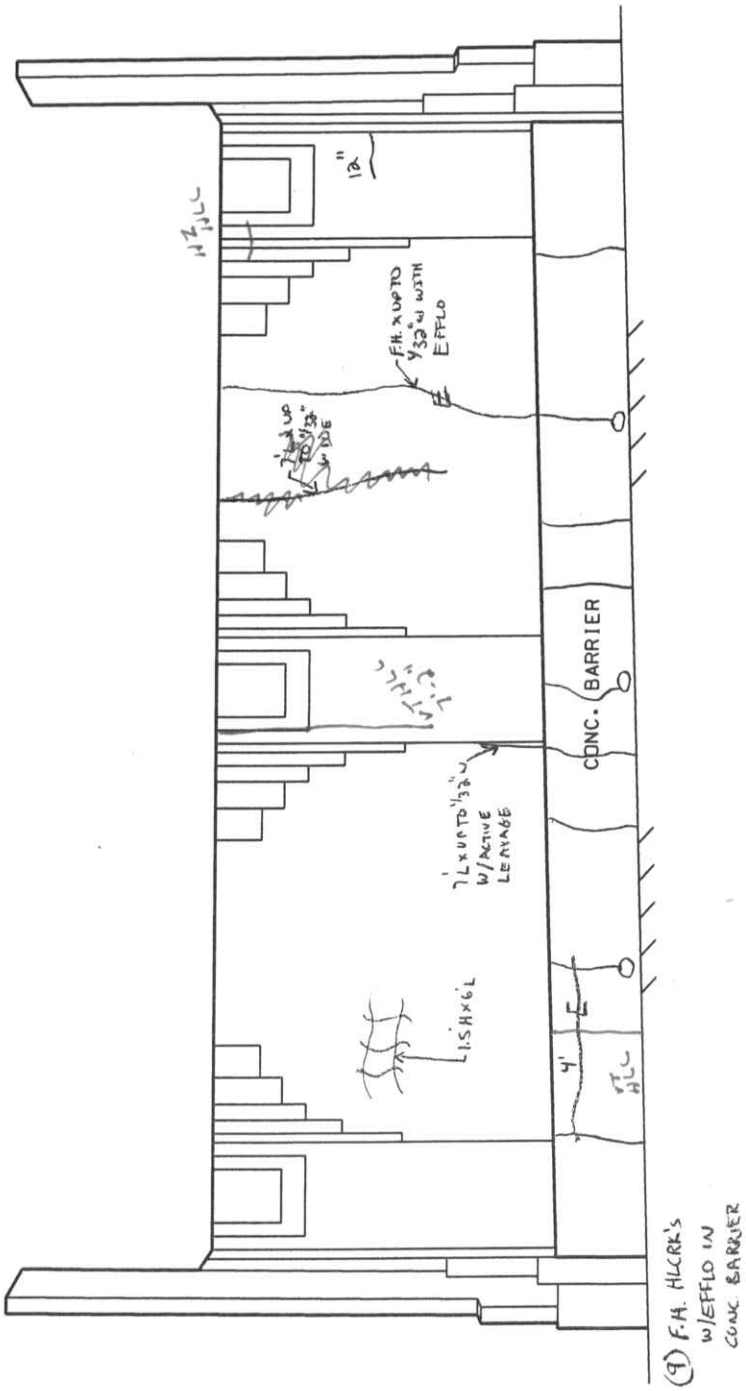
- CRACKS OPENED UP TO 1/32" WIDE WITH HEAVY EFFLO LEAKAGE ON FASCIA
- ISOLATED HOLLOW AREAS IN CONCRETE PATCH

(1) ARCHITECTURAL DETAIL WITH MODERATE TO HEAVY SCALE ALONG EDGES w/ LOOSE CONCRETE

LEGEND:
HOLLOW AREA
SHALLOW REBAR
SPALL AREA
SPALL AREA WITH EXPOSED REBAR
MAPCRACKS
MAPCRACKS WITH EFFLORESCENCE
HAIRLINE CRACKS
HAIRLINE CRACKS WITH EFFLORESCENCE
HONEYCOMB AREA
SCALE AREA

REVISION	DATE	CREW		REVISION	DATE	CREW
1	1/22/10	TEAM 8	SEE CHANGES IN RED	3		
2				4		

HAKS FIELD NOTES	JOB NO.170-2729	BRIDGE NO. 00702
	DATE: 1/8/08	SHEET
	CREW: EJL, MJW	



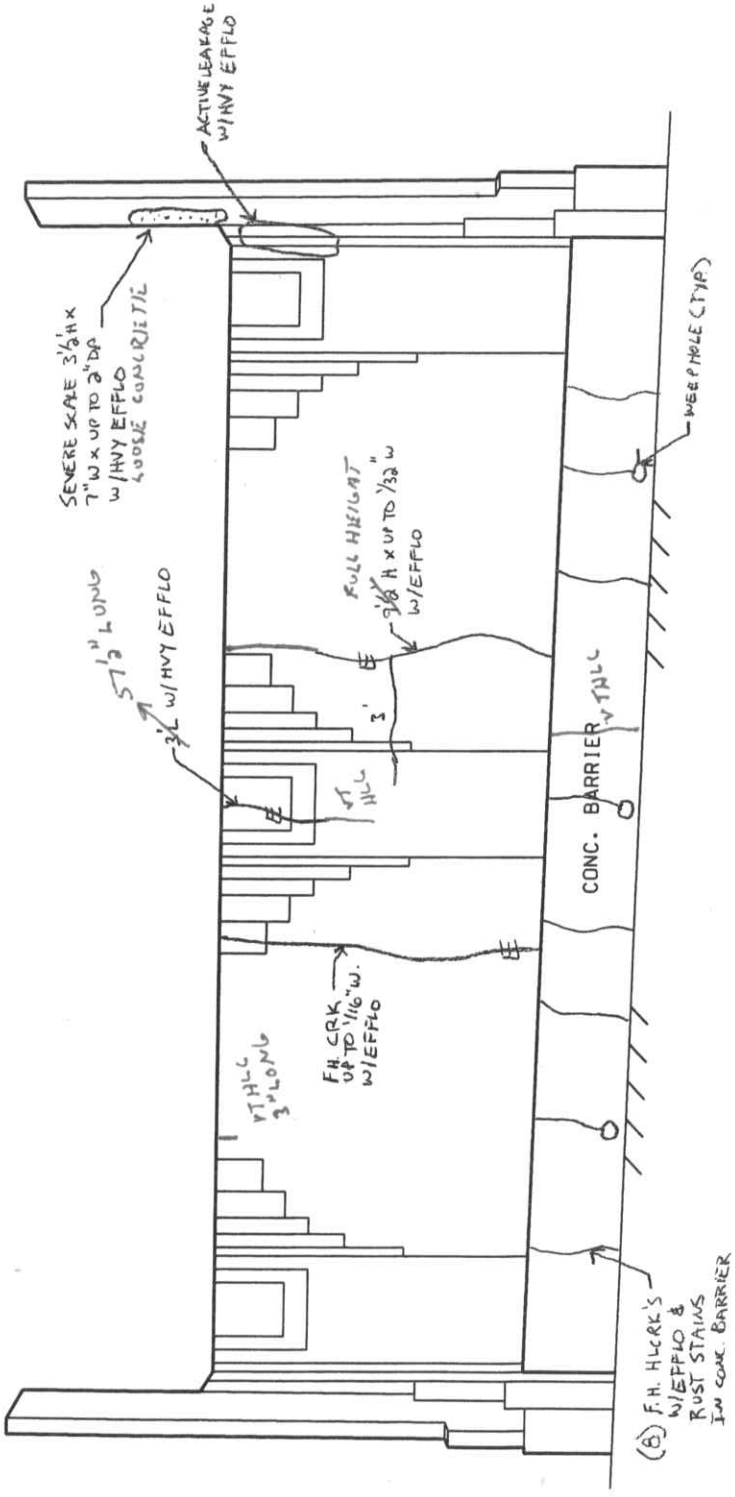
NORTH FRAME LEG - ELEVATION
NTS

GENERAL NOTES:
- LIGHT SCALE THROUGHOUT FACE OF FRAME LEG

LEGEND:
- HOLLOW AREA
- SHALLOW REBAR
- SPALL AREA
- SPALL AREA WITH EXPOSED REBAR
- MAPCRACKS
- MAPCRACKS WITH EFFLORESCENCE
- HAIRLINE CRACKS
- HAIRLINE CRACKS WITH EFFLORESCENCE
- HONEYCOMB AREA
- SCALE AREA

REVISION 1	DATE 1/22/10	CREW TM &	NOTE CHANGES IN RED	REVISION 3	DATE	CREW
REVISION 2	DATE	CREW		REVISION 4	DATE	CREW

HAKS FIELD NOTES	JOB NO.170-2729	BRIDGE NO. 00702
	DATE: 1/8/08	SHEET
	CREW: EJL, MJW	



SOUTH FRAME LEG - ELEVATION
NTS

GENERAL NOTES:

- LIGHT SCALE AT RANDOM LOCATIONS
- RANDOM PAINT PATCHES

LEGEND:
HOLLOW AREA
SHALLOW REBAR
SPALL AREA
SPALL AREA WITH EXPOSED REBAR
MAPCRACKS
MAPCRACKS WITH EFFLORESCENCE
HAIRLINE CRACKS
HAIRLINE CRACKS WITH EFFLORESCENCE
HONEYCOMB AREA
SCALE AREA

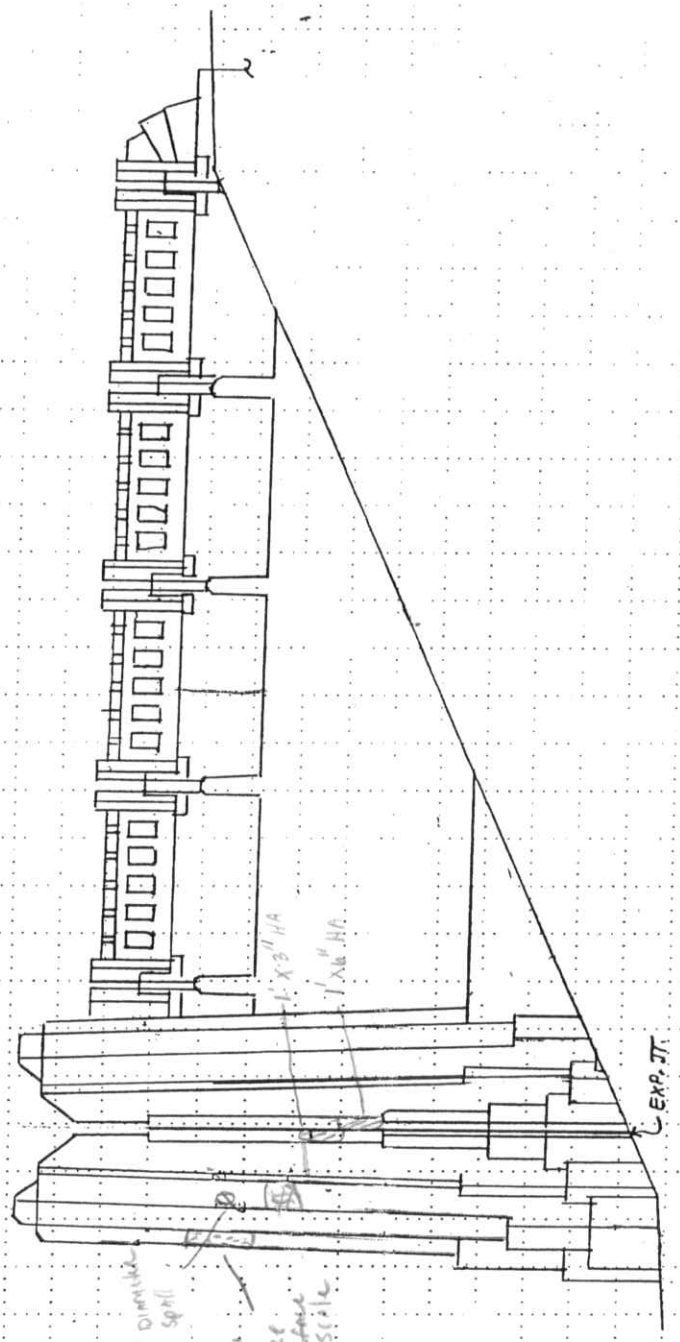
REVISION 1	DATE 1/22/10	CREW TM 8	NOTE CHANGES IN RED	REVISION 3	DATE	CREW
REVISION 2	DATE	CREW		REVISION 4	DATE	CREW

SUPPLEMENTAL SHEET

☐ FIELD ORIGINAL ☐ TRANSCRIBED BY: ____

JOB NO.	BRIDGE NO. 00702
DATE: 1/22/10	SHEET OF
CREW: TM. 8 NOTE CHANGES	

DESCRIPTION: WINGWALLS



SOUTHWEST WINGWALL

- GENERAL NOTES
- VINE GROWTH COVERS 80% OF WINGWALL

LEGEND

- HOLLOW AREA
- SHALLOW REBAR
- SPALL AREA
- SPALL AREA WITH EXPOSED REBAR
- MAP CRACKS (MpC) OR HAIRLINE MAP CRACKS (HLMpC)
- HAIRLINE CRACKS (HLC) OR CRACKS (CRK)
- HONEY COMB AREA
- SCALE AREA (HVY, MED OR LT)

Structure Inventory and Appraisal Sheet (English Units)

Bridge Key: 00702 | Agency ID: 00702 | Sufficiency Rating: 51.0

IDENTIFICATION

State 1: 09 Connecticut | Struc Num 8: 00702
Facility Carried 7: RIVER BANK ROAD | Location 9: 0.9 MI S OF ROUTE 104
Rte.(On/Under)5A: Route On Structure | Rte. Signing Prefix 5B: 5 City Street
Level of Service 5C: 0 None of the below | Rte. Number 5D: 00000
Directional Suffix 5E: 0 N/A (NBI) | % Responsibility : 0
SHD District 2: 03 | County Code 3: Fairfield
Place Code 4: STAMFORD | Mile Post 11: 0.120 mi
Feature Intersected 6: ROUTE 15
Latitude 16: 41d 06' 00" | Longitude 17: 073d 34' 54"
Border Bridge Code 98: Unknown (P)
Border Bridge Number 99: NA

INSPECTION

Frequency 91: 24 months | Inspection Date 90: 1/4/2010 | Next Inspection: 01/04/2012
FC Frequency 92A: NA | FC Inspection Date 93A: NA | Next FC Inspection: NA
UW Frequency 92B: NA | UW Inspection Date 93B: NA | Next UW Inspection: NA
SI Frequency 92C: 24 months | SI Date 93C: 1/4/2010 | Next SI: 1/4/2012
Element Frequency: 24 months | Element Inspection Date: 01/04/2010 | Next Elem. Insp. Due: 01/04/2012

CLASSIFICATION

Defense Highway 100: 0 Not a STRAHNET hwy | Parallel Structure 101: No || bridge exists
Direction of Traffic 102: 2 2-way traffic | Temporary Structure 103: Unknown (NBI)
Highway System 104: 0 Not on NHS | NBIS Length 112: Long Enough
Toll Facility 20: 3 On free road | Functional Class 26: 17 Urban Collector
Historical Significance 37: 1 Br on Natl Reg Hist Pl
Owner 22: 1 1
Custodian 21: 1 1

STRUCTURE TYPE AND MATERIALS

Number of Approach Spans 46: 0 | Number of Spans Main Unit 45: 1
Main Span Material/Design 43A/B:
1 Concrete | 07 Frame
Deck Type 107: N N/A (NBI)
Wearing Surface 108A: N N/A (no deck (NBI))
Membrane 108B: N N/A (no deck (NBI))
Deck Protection 108C: N N/A (no deck (NBI))

CONDITION

Deck 58: N N/A (NBI) | Super 59: 4 Poor | Sub 60: 6 Satisfactory
Culvert 62: N N/A (NBI) | Channel/Channel Protection 61: N N/A (NBI)

LOAD RATING AND POSTING

Inventory Rating Method 65: 5 No rating | Operating Rating Method 63: 5 No rating
Inventory Rating 66: HS18.9 | Operating Rating 64: HS32.2
Design Load 31: 4 M 18 (H 20) | Posting 70: 5 At/Above Legal Loads
Posting status 41: A Open, no restriction

AGE AND SERVICE

Year Built 27: 1937 | Year Reconstructed 106: Unknown
Type of Service on 42A: 1 Highway
Type of Service under 42B: 1 Highway
Lanes on 28A: 2 | Lanes Under 28B: 4 | Detour Length 19: 2.0 mi
ADT 29: 4,690 | Truck ADT 109: 4 % | Year of ADT 30: 2009

APPRAISAL

Bridge Rail 36A: 0 Substandard | Approach Rail 36C: 0 Substandard
Transition 36B: 0 Substandard | Approach Rail Ends 36D: 0 Substandard
Str. Evaluation 67: 5 | Deck Geometry 68: 4 Tolerable
Underclearance, Vertical and Horizontal 69: 3 Intolerable - Correct
Waterway Adequacy 71: N Not applicable | Approach Alignment 72: 6 Equal Min Criteria
Scour Critical 113: N Not Over Waterway

GEOMETRIC DATA

Length Max Span 48: 64.7 ft | Structure Length 49: 64.7 ft
Curb/Sdwlk Wdth L 50A: 1.0 ft | Curb/Sidewalk Width R 50B: 1.0 ft
Width Curb to Curb 51: 30.0 ft | Width Out to Out 52: 35.2 ft
Approach Roadway Width 32: (w/ shoulders) 27.0 ft | Median 33: 0 No median
Deck Area: 2,274.1 sq. ft
Skew 34: 13.00 ° | Structure Flared 35: 0 No flare
Minimum Vertical Clearance Over Bridge 53: 328.1 ft
Minimum Vertical Underclearance Reference 54A: H Hwy beneath struct
Minimum Vertical Underclearance 54B: 12.3 ft
Minimum Lateral Underclearance Reference R 55A: H Hwy beneath struct
Minimum Lateral Undrclearance R 55: 2.3 ft
Minimum Lateral Undrclearance L 56: 0.0 ft

PROPOSED IMPROVEMENTS

Bridge Cost 94: $ 1,000 | Type of Work 75: 38 Other Structural
Roadway Cost 95: $ 1,000 | Length of Improvment 76: 0.3 ft
Total Cost 96: $ 2,000 | Future ADT 114: 2,000
Year of Cost Estimate 97: 2000 | Year of Future ADT 115: 2019

NAVIGATION DATA

Navigation Control 38: N NA-no waterway
Vertical Clearance 39: 0.0 ft | Horizontal Clearance 40: 0.0 ft
Pier Protection 111: Unknown (NBI) | Lift Bridge Vertical Clearance 116:

ELEMENT CONDITION STATE DATA

Str Unit	Elm/Env	Description	Units	Total Qty	% in 1	Qty. St. 1	% in 2	Qty. St. 2	% in 3	Qty. St. 3	% in 4	Qty. St. 4	% in 5	Qty. St. 5
0	144/3	R/Conc Arch	(LF)	36	3 %	1	42 %	15	55 %	20	0 %	0	0 %	0
0	215/3	R/Conc Abutment	(LF)	72	73 %	53	27 %	19	0 %	0	0 %	0	0 %	0
0	321/3	R/Conc Approach Slab	(EA)	2	100 %	2	0 %	0	0 %	0	0 %	0	0 %	0
0	331/3	Conc Bridge Railing	(LF)	311	100 %	311	0 %	0	0 %	0	0 %	0	0 %	0
0	359/3	Soffit Smart Flag	(EA)	1	0 %	0	0 %	0	100 %	1	0 %	0	0 %	0

Bridge No.	00702	**Inspected by:**	Andrew Ferrara
Town:	Stamford	**Inspected by:**	Mike Holdridge
Feature Carried:	River Bank Road	**Date Inspected:**	01/22/2010
Feature Crossed:	Rte-15	**Project No.:**	

Photo # 1:
West elevation.

Photo # 2:
East elevation.

Bridge No.	00702	**Inspected by:**	Andrew Ferrara
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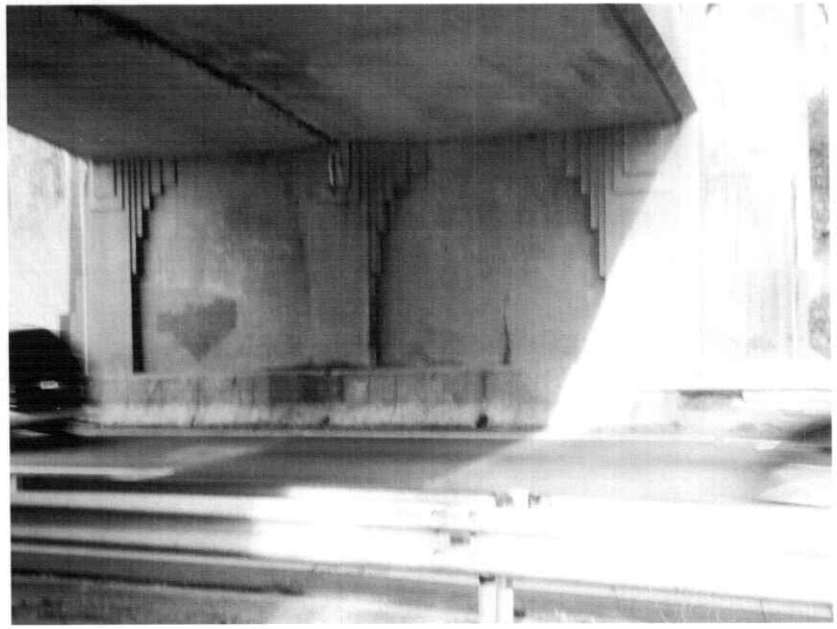

Photo # 3:
North frame leg.

Photo # 4:
South frame leg.

Bridge No.	00702	**Inspected by:**	Andrew Ferrara
Town:	Stamford	**Inspected by:**	Mike Holdridge
Feature Carried:	River Bank Road	**Date Inspected:**	01/22/2010
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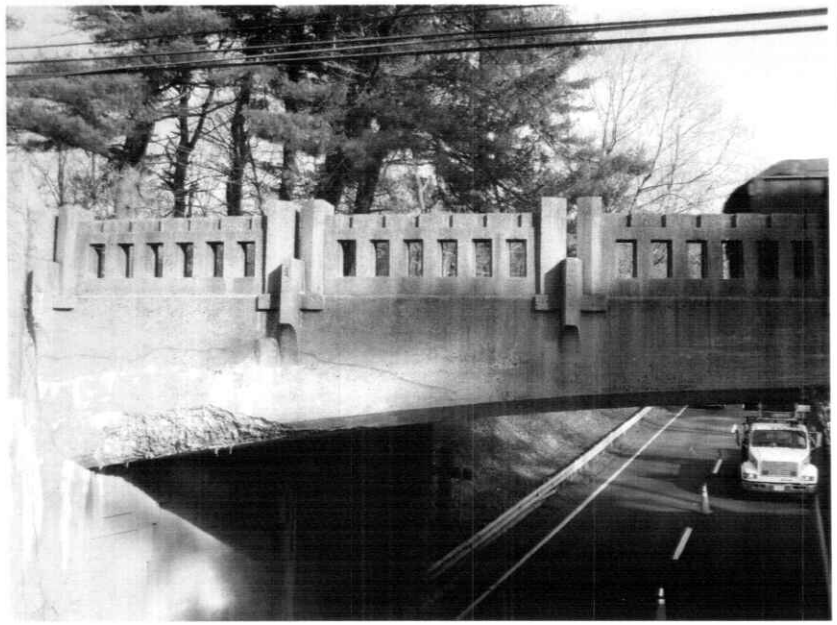


Photo # 5:
West fascia.

Photo # 6:
West fascia.

Bridge No.	00702	**Inspected by:**	Andrew Ferrara
Town:	Stamford	**Inspected by:**	Mike Holdridge
Feature Carried:	River Bank Road	**Date Inspected:**	01/22/2010
Feature Crossed:	Rte-15	**Project No.:**	

Photo # 7:
View of hollow area at the west end of intrados.

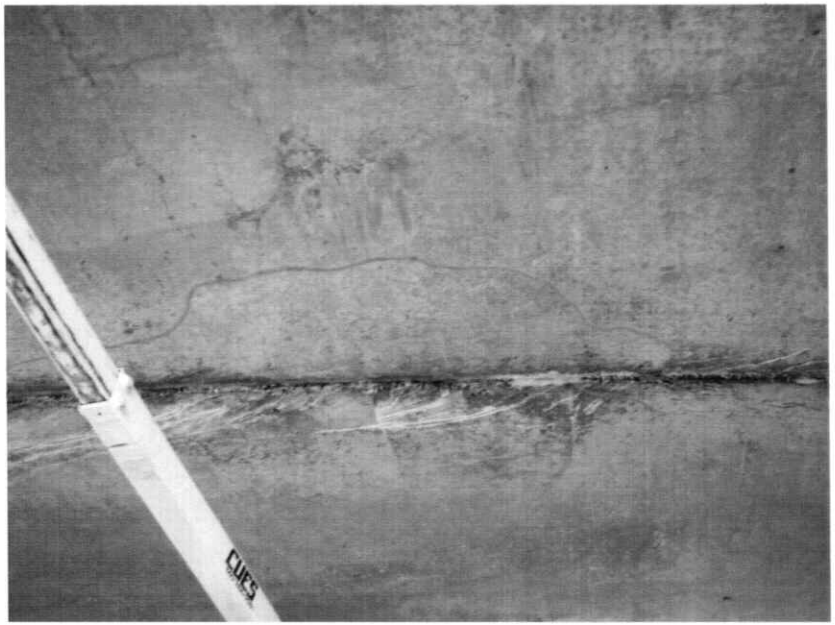


Photo # 8:
View of hollow area midspan in southbound lane.

Bridge No.	00702	**Inspected by:**	Andrew Ferrara
Town:	Stamford	**Inspected by:**	Mike Holdridge
Feature Carried:	River Bank Road	**Date Inspected:**	01/22/2010
Feature Crossed:	Rte-15	**Project No.:**	

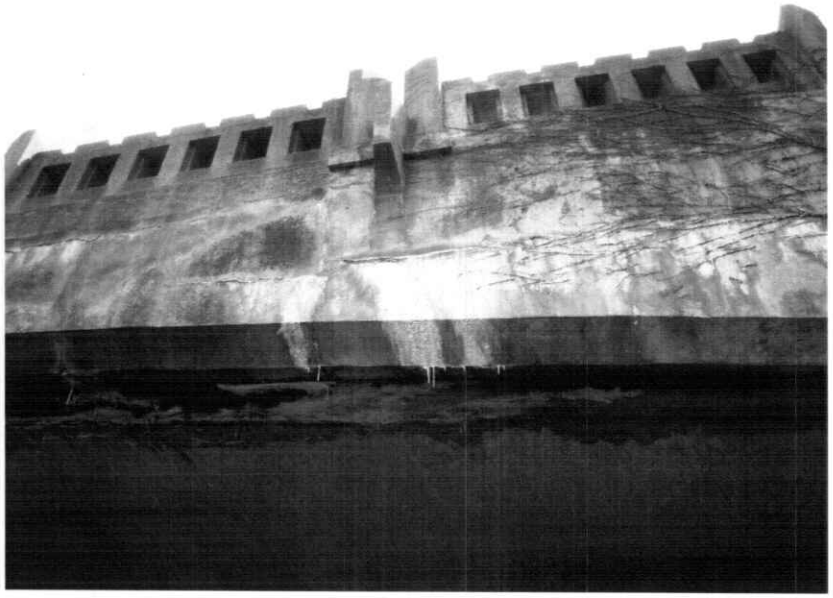


Photo # 9:
East fascia midspan.

Photo # 10:
East fascia above north frame leg.

Bridge No.	00702	**Inspected by:**	Andrew Ferrara
Town:	Stamford	**Inspected by:**	Mike Holdridge
Feature Carried:	River Bank Road	**Date Inspected:**	01/22/2010
Feature Crossed:	Rte-15	**Project No.:**	

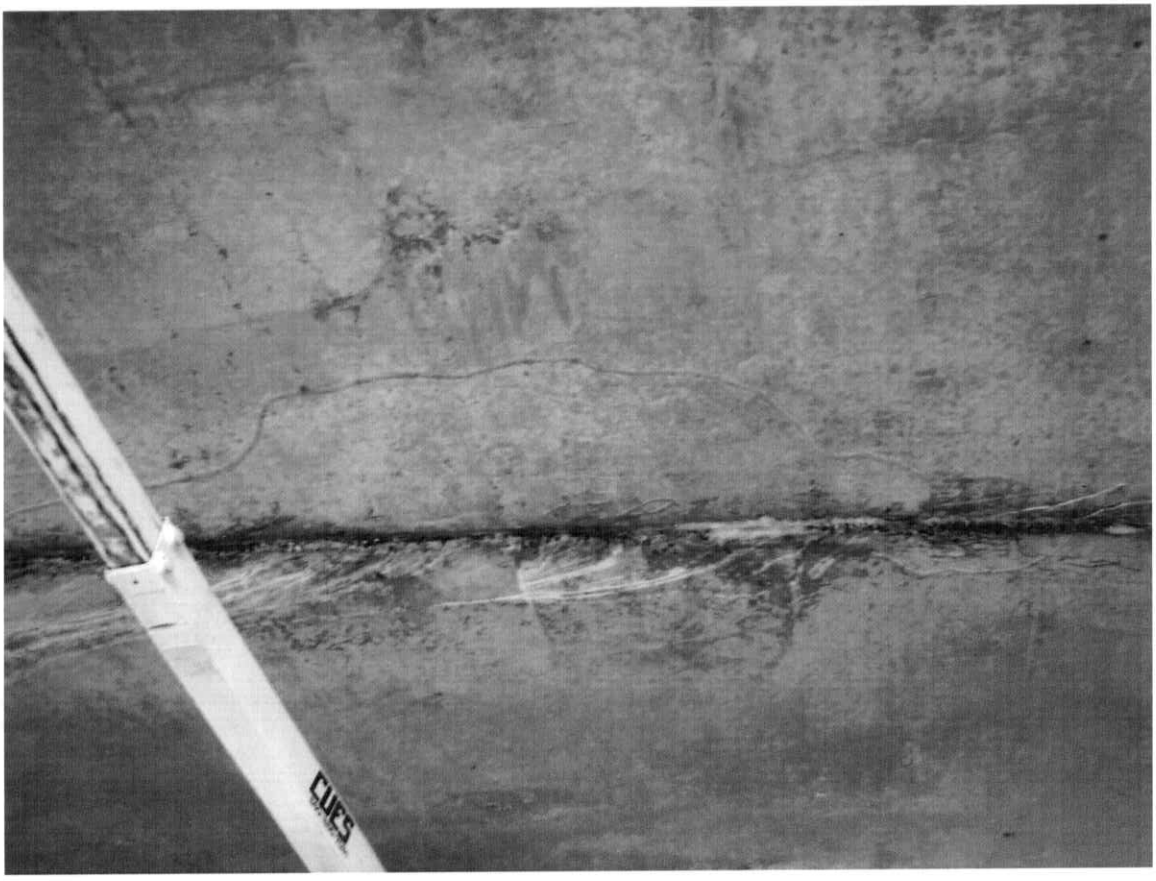
Photo # 11:
East fascia above south frame leg.

01/22/2010 Bridge # 00702 River Bank Road over Rte-15, Stamford.

View of large hollow area on the West fascia over slow speed lane, Southbound Rte-15.
± 42 inches high by 16 feet long.

01/22/2010 Bridge # 00702 River Bank Road over Rte-15, Stamford.

West elevation.

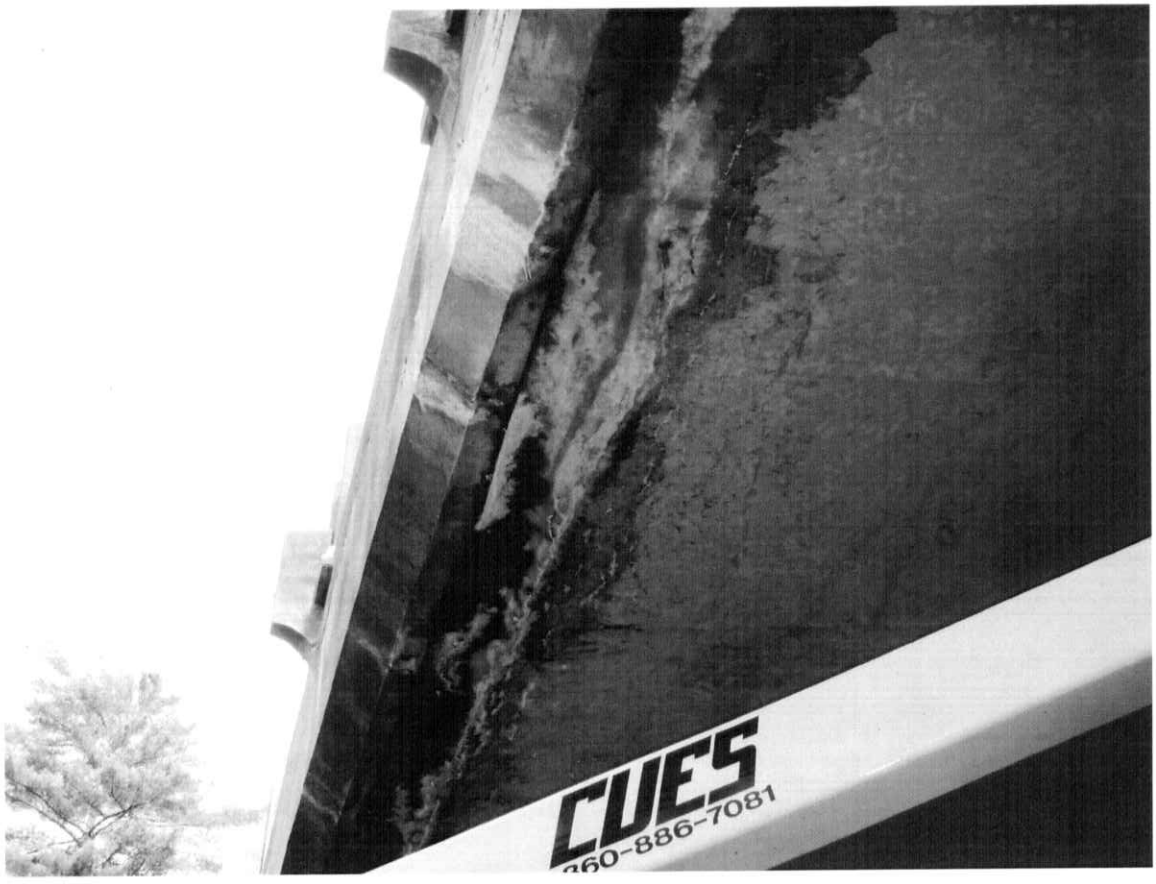


01/22/2010 Bridge # 00702 River Bank Road over Rte-15, Stamford.

View of hollow area midspan over southbound lanes

01/22/2010 Bridge # 00702 River Bank Road over Rte-15, Stamford.

Hollow area at the West end over rte-15 northbound lanes.



01/22/2010 Bridge # 00702 River Bank Road over Rte-15, Stamford.

View of hollow area at the West end area over slow speed lane, northbound Rte-15.

01/22/2010 Bridge # 00702 River Bank Road over Rte-15, Stamford.

View of hollow area over high speed lane and median on the west fascia, southbound.