

STRUCTURES INSPECTION FIELD REPORT

SPECIAL MEMBER INSPECTION

2-DIST
01

B.I.N.
5CK

BR. DEPT. NO.
A-13-035

CITY/TOWN ASHFIELD	8.-STRUCTURE NO. A13035-5CK-MUN-BRI	11-Kilo. POINT 000.000	90-ROUTINE INSP. DATE Jan 19, 2024	93*-SPEC. MEMB. INSP. DATE Jan 23, 2025
07-FACILITY CARRIED HWY WLLMSBRG RD	MEMORIAL NAME/LOCAL NAME		27-YR BUILT 1960	106-YR REBUILT 0000
06-FEATURES INTERSECTED WATER CHAPEL BROOK	26-FUNCTIONAL CLASS Major Collector	DIST. BRIDGE INSPECTION ENGINEER <i>M. P.E. McCabe</i>		
43-STRUCTURE TYPE 319 : Steel Culvert	22-OWNER Town Agency	21-MAINTAINER Town Agency	TEAM LEADER R. Mancari <i>Reed Mancari</i>	
107-DECK TYPE N : Not applicable	WEATHER Sunny	TEMP. (air) -6°C	TEAM MEMBERS M. RANZONI <i>Matthew Ranzoni</i>	

WEIGHT POSTING	Not Applicable <input checked="" type="checkbox"/>	At bridge	Advance	PLANS (Y/N): <input type="checkbox"/> N
Actual Posting	H <input type="checkbox"/> N 3 <input type="checkbox"/> N 3S2 <input type="checkbox"/> N Single <input type="checkbox"/> N	N <input type="checkbox"/> S <input type="checkbox"/>	N <input type="checkbox"/> S <input type="checkbox"/>	(V.C.R.) (Y/N): <input type="checkbox"/> N
Recommended Posting	H <input type="checkbox"/> N 3 <input type="checkbox"/> N 3S2 <input type="checkbox"/> N Single <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>	TAPE#: _____
Waived Date: 00/00/0000	EJDMT Date: 00/00/0000	Signs In Place (Y=Yes, N=No, NR=Not Required) Legibility/Visibility		

RATING	Rating Report (Y/N): <input type="checkbox"/> N	Date: ----	Recommend for Rating or Rerating (Y/N): <input type="checkbox"/> N	If YES please give priority: HIGH () MEDIUM () LOW ()
REASON:				
Inspection data at time of existing rating I 58: - I 59: - I 60: - I 62: - Date :00/00/0000				

	MEMBER	CRACK (Y/N):	WELD'S CONDITION (0-9)	LOCATION OF CORROSION, SECTION LOSS (%), CRACKS, COLLISION DAMAGE, STRESS CONCENTRATION, ETC.	CONDITION		INV. RATING OF MEMBER FROM RATING ANALYSIS			Deficiencies
					PREVIOUS	PRESENT	H-20	3	3S2	
					(0-9)	(0-9)				
A	Item 62.6 - Pipe	N		See remarks in comments section.	4	4	Not Rated			S-A
B										
C										
D										
E										

List of field tests performed:	(Overall Previous Condition)	I-58	I-59	I-60	I-62
		-	-	-	4
	(Overall Current Condition)	-	-	-	4

DEFICIENCY: A defect in a structure that requires corrective action.

CATEGORIES OF DEFICIENCIES:

M= Minor Deficiency - Deficiencies which are minor in nature, generally do not impact the structural integrity of the bridge and could easily be repaired. Examples include but are not limited to: Spalled concrete, Minor pot holes, Minor corrosion of steel, Minor scouring, Clogged drainage, etc.

S= Severe/Major Deficiency - Deficiencies which are more extensive in nature and need more planning and effort to repair. Examples include but are not limited to: Moderate to major deterioration in concrete, Exposed and corroded rebars, Considerable settlement, Considerable scouring or undermining, Moderate to extensive corrosion to structural steel with measurable loss of section, etc.

C-S= Critical Structural Deficiency - A deficiency in a structural element of a bridge that poses an extreme unsafe condition due to the failure or imminent failure of the element which will affect the structural integrity of the bridge.

C-H= Critical Hazard Deficiency - A deficiency in a component or element of a bridge that poses an extreme hazard or unsafe condition to the public, but does not impair the structural integrity of the bridge. Examples include but are not limited to: Loose concrete hanging down over traffic or pedestrians, A hole in a sidewalk that may cause injuries to pedestrians, Missing section of bridge railing, etc.

URGENCY OF REPAIR:

I = Immediate- [Inspector(s) immediately contact District Bridge Inspection Engineer (DBIE) to report the Deficiency and to receive further instruction from him/her].

A = ASAP- [Action/Repair should be initiated by District Maintenance Engineer or the Responsible Party (if not a State owned bridge) upon receipt of the Inspection Report].

P = Prioritize- [Shall be prioritized by District Maintenance Engineer or the Responsible Party (if not a State owned bridge) and repairs made when funds and/or manpower is available].

X=UNKNOWN N=NOT APPLICABLE H=HIDDEN/INACCESSIBLE R=REMOVED

CITY/TOWN ASHFIELD	B.I.N. 5CK	BR. DEPT. NO. A-13-035	8.-STRUCTURE NO. A13035-5CK-MUN-BRI	INSPECTION DATE JAN 23, 2025
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REMARKS

BRIDGE ORIENTATION

Williamsburg Road travels north and south. Chapel Brook flows from west to east. This single barrel culvert consists of a corrugated galvanized steel pipe, supporting fill with an asphalt wearing surface. Report notes are from west to east, upstream to downstream, in accordance with the 2015 Bridge Inspection Handbook. See sketch 1 and photos 1 & 2.

GENERAL REMARKS

The structure appears to have been widened to the east, with the east 20' of the pipe being galvanized (original / west portion is 50' long). See photo 2.

ITEM 62 - CULVERT

Item 62.6 - Pipe

Along and below the waterline, there is rusting, full length. See photo 2.

The upstream (west) portion of the pipe (original section), along the invert, has widespread severe rusting with section loss and perforations, 50' long x up to 30" wide. Gravel and voids are visible through the holes. See photo 3.

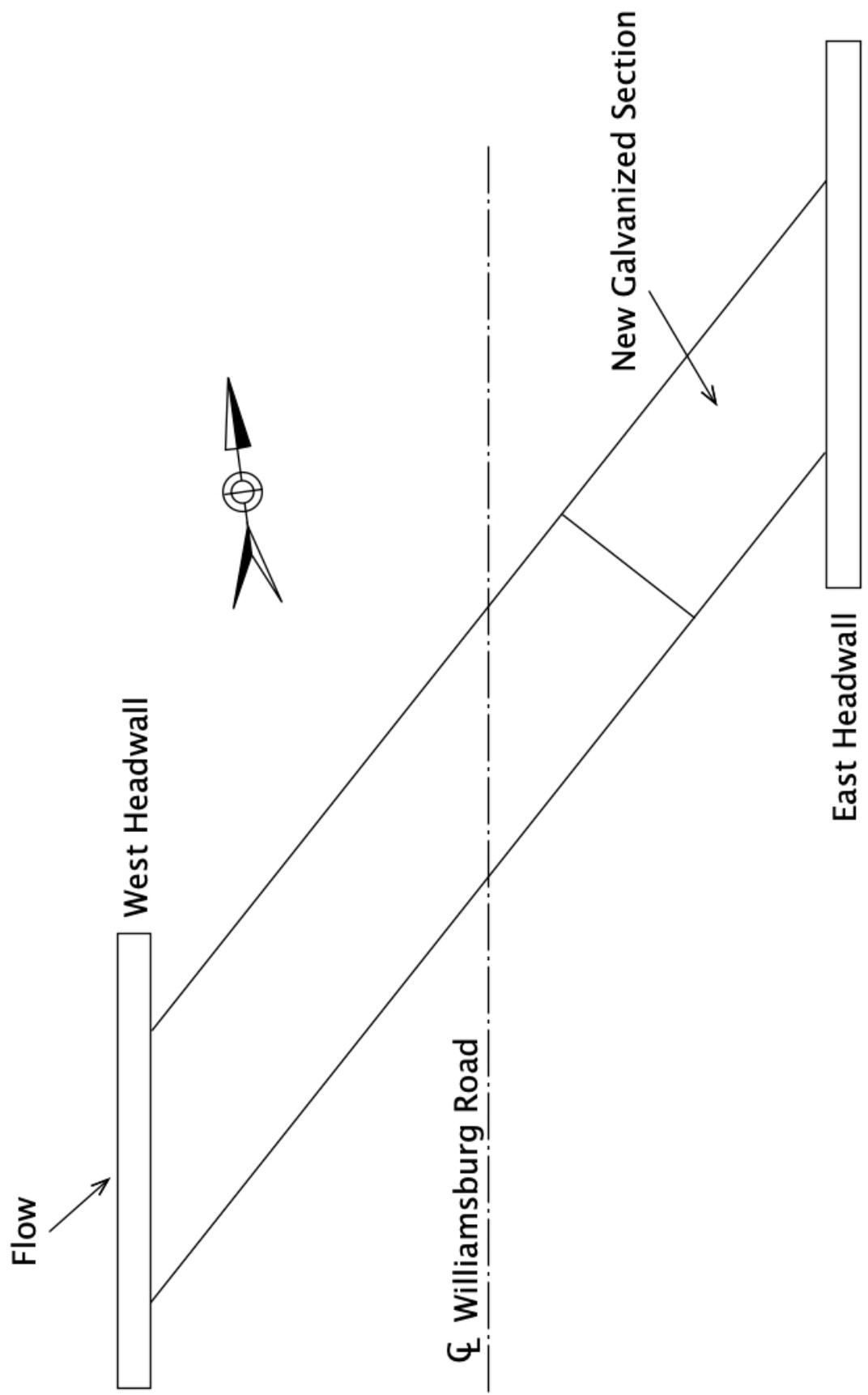
At the splice between sections, near the top, there is a bolt not tightened down and part of the pipe is cut away. This appears to be an as built defect. See photo 4.

Sketch / Photo Log

- Sketch 1 : Framing plan.
- Photo 1 : General topside, looking south.
- Photo 2 : General underside, looking west.
- Photo 3 : Holes throughout the invert of the pipe.
- Photo 4 : Pipe section peeled away at splice.

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SKETCHES



Sketch 1: Framing plan.

CITY/TOWN
ASHFIELDB.I.N.
5CKBR. DEPT. NO.
A-13-0358.-STRUCTURE NO.
A13035-5CK-MUN-BRIINSPECTION DATE
JAN 23, 2025**PHOTOS**

Photo 1: General topside, looking south.



Photo 2: General underside, looking west.

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PHOTOS

Photo 3: Holes throughout the invert of the pipe.

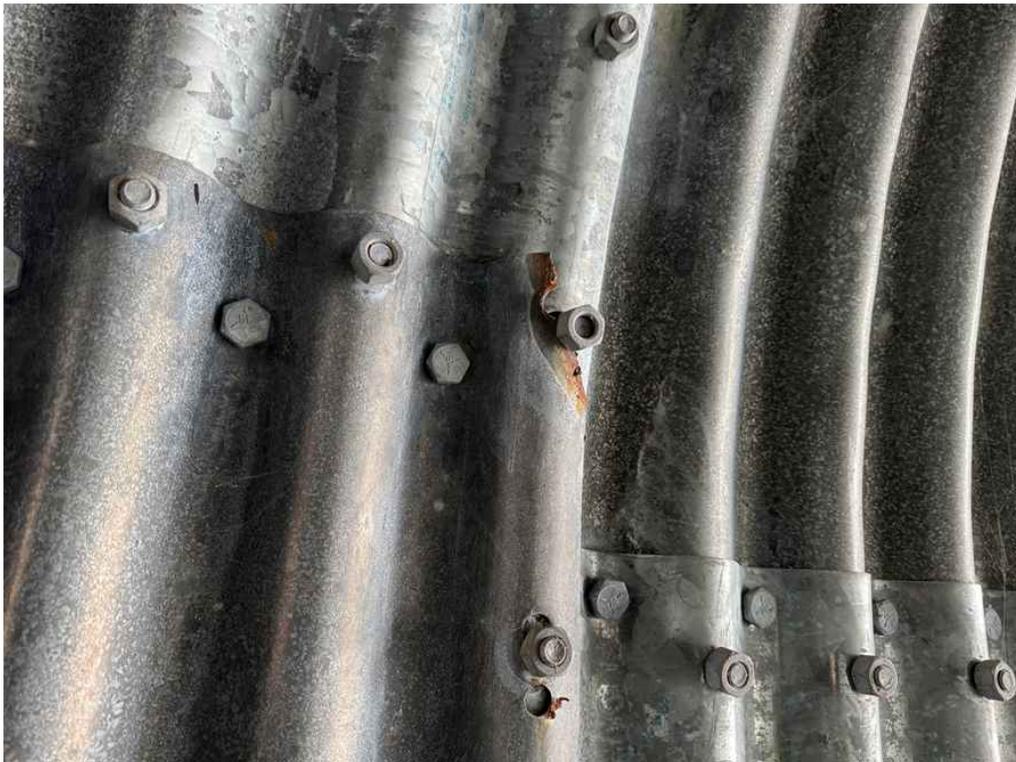


Photo 4: Pipe section peeled away at splice.