

STRUCTURES INSPECTION FIELD REPORT

OTHER INSPECTION

2-DIST  
01

B.I.N.  
5CQ

BR. DEPT. NO.  
A-13-018

CITY/TOWN <b>ASHFIELD</b>	8.-STRUCTURE NO. <b>A13018-5CQ-MUN-BRI</b>	11-Kilo. POINT <b>000.000</b>	90-ROUTINE INSP. DATE <b>Jan 12, 2024</b>	INSPECTION DATE <b>Jul 23, 2024</b>
07-FACILITY CARRIED <b>HWY PFERSICK RD</b>	MEMORIAL NAME/LOCAL NAME	27-YR BUILT <b>1990</b>	106-YR REBUILT <b>0000</b>	*YR REHAB'D (NON 106) <b>0000</b>
06-FEATURES INTERSECTED <b>WATER BEAR RIVER</b>	26-FUNCTIONAL CLASS <b>Rural Local</b>	DIST. BRIDGE INSPECTION ENGINEER <i>Michael P. McCabe</i> M. P.E. McCabe		
43-STRUCTURE TYPE <b>119 : Concrete Culvert</b>	22-OWNER <b>Town Agency</b>	21-MAINTAINER <b>Town Agency</b>	TEAM LEADER R. Mancari <i>Reed Mancari</i>	
107-DECK TYPE <b>N : Not applicable</b>	WEATHER <b>Cloudy</b>	TEMP. (air) <b>21°C</b>	TEAM MEMBERS <b>M. RANZONI</b> <i>Matthew Ranzoni</i>	

<b>WEIGHT POSTING</b>	<i>Not Applicable</i> <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	E <input type="checkbox"/> W <input type="checkbox"/>	E <input type="checkbox"/> W <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	E <input type="checkbox"/> W <input type="checkbox"/>	E <input type="checkbox"/> W <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		

<b>RATING</b>	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 ( )
Inspection data at time of existing rating I 58: - I 59: - I 60: - I 62: - Date : 00/00/0000			REASON: _____	

MEMBER(S):	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 62.15 - Scour	N	N	See remarks in comments section.	5	5	Not Rated			S-A
B										
C										
D										
E										

<b>List of field tests performed:</b>	I-58	I-59	I-60	I-61	I-62
(Overall Previous Condition)	-	-	-	5	7
(Overall Current Condition)	-	-	-	5	7

**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

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## REMARKS

### **BRIDGE ORIENTATION**

Pfersick Road travels north and south. The Bear River flows from west to east. This culvert is a single box, which consists of eleven precast concrete sections, with no fill and an asphalt wearing surface. Sections are numbered from west to east, upstream to downstream, in accordance with the 2015 Bridge Inspection Handbook. See sketch 1 and photos 1 & 2.

### **GENERAL REMARKS**

This inspection was conducted to document hidden channel scour.

### **ITEM 62 - CULVERT**

#### **Item 62.15 - Scour**

At the downstream opening, there is a large plunge pool, approximately 40' diameter x 4' deep. See photo 3.

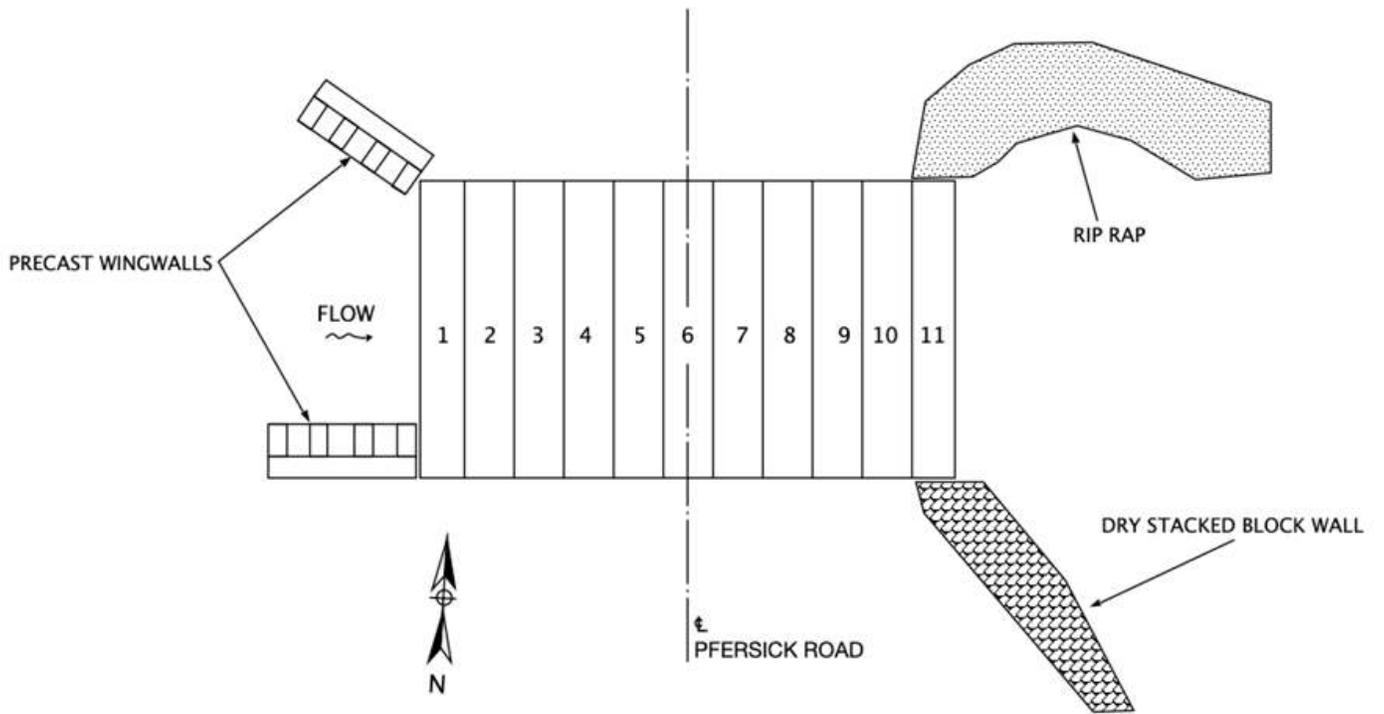
For channel profile readings, refer to chart 1.

#### **Sketch / Chart / Photo Log**

Sketch 1 : Framing plan.  
 Chart 1 : Channel profile readings.  
 Photo 1 : General topside, looking north.  
 Photo 2 : General underside, looking east.  
 Photo 3 : Downstream plunge pool.

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**SKETCHES**



Sketch 1: Framing plan.

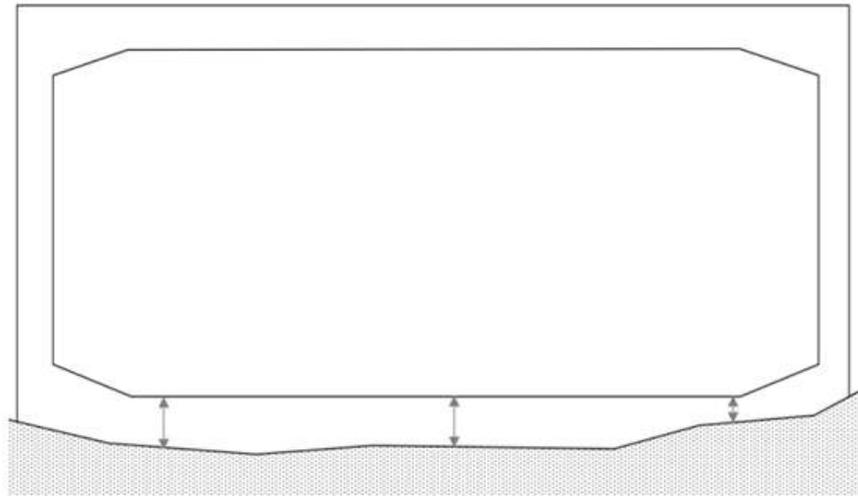
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**CHARTS**

A13018 Channel Profile Readings						
	West Fascia			East Fascia		
DATE	South Wall	1/2 span	North Wall	South Wall	1/2 span	North Wall
1/12/2024	0.4	0.3	0.3	2.4	2.0	3.5
7/23/2024	0.5	0.3	0.4	1.6	0.9	2.3

NOTES:

- \*All readings in decimal feet.
- \*East (downstream) measurements include 12" from top of floor to top of curtain wall



**Chart 1: Channel profile readings.**

CITY/TOWN ASHFIELD	B.I.N. 5CQ	BR. DEPT. NO. A-13-018	8.-STRUCTURE NO. A13018-5CQ-MUN-BRI	INSPECTION DATE JUL 23, 2024
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**PHOTOS**

**Photo 1: General topside, looking north.**



**Photo 2: General underside, looking east.**

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**PHOTOS**



**Photo 3: Downstream plunge pool.**