

STRUCTURES INSPECTION FIELD REPORT

SPECIAL MEMBER INSPECTION

2-DIST
01

B.I.N.
5CT

BR. DEPT. NO.
A-13-026

CITY/TOWN ASHFIELD	8.-STRUCTURE NO. A13026-5CT-MUN-BRI	11-Kilo. POINT 000.000	90-ROUTINE INSP. DATE Jan 30, 2024	93*-SPEC. MEMB. INSP. DATE Oct 30, 2024
07-FACILITY CARRIED HWY CREAMERY RD	MEMORIAL NAME/LOCAL NAME	27-YR BUILT 1938	106-YR REBUILT 0000	*YR REHAB'D (NON 106) 0000
06-FEATURES INTERSECTED WATER BR CREAMERY BROOK	26-FUNCTIONAL CLASS Rural Local	DIST. BRIDGE INSPECTION ENGINEER M. P.E. McCabe <i>Michael P McCabe</i>		
43-STRUCTURE TYPE 302 : Steel Stringer/Girder	22-OWNER Town Agency	21-MAINTAINER Town Agency	TEAM LEADER S. Gale <i>Sarah Gale</i>	
107-DECK TYPE 1 : Concrete Cast-in-Place	WEATHER P. Cloudy	TEMP. (air) 10°C	TEAM MEMBERS G. A. KOTSKI <i>Gabriel Kotaki</i>	

WEIGHT POSTING	<i>Not Applicable</i> <input checked="" type="checkbox"/>	At bridge	Advance	PLANS (Y/N): <input type="checkbox"/> Y
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		

RATING

Rating Report (Y/N): N Date: _____ Recommend for Rating or Rerating (Y/N): 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: _____

SPECIAL 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 (0-9)	PRESENT (0-9)	H-20	3	3S2	
A	Item 59.4 - Girders or Beams	N		See remarks in comments section.	4	3	Not Rated			S-A
B										
C										
D										
E										

List of field tests performed:
D-Meter

(Overall Previous Condition)	I-58	I-59	I-60	I-62
	6	4	5	-
(Overall Current Condition)	I-58	I-59	I-60	I-62
	6	3	5	-

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. 5CT	BR. DEPT. NO. A-13-026	8.-STRUCTURE NO. A13026-5CT-MUN-BRI	INSPECTION DATE OCT 30, 2024
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REMARKS

BRIDGE ORIENTATION

Creamery Road travels west and east. Creamery Brook flows from south to north. This single span structure consists of six steel beams supporting a cast in place concrete deck with an asphalt wearing surface. Report notes are taken from south to north, upstream to downstream, in accordance with the 2015 Bridge Inspection Handbook. **See Sketch 1 and Photos 1 & 2.**

ITEM 59 - SUPERSTRUCTURE

Item 59.4 - Girders or Beams

Beam 1, at both ends, has severe section loss. **See Sketch 2 and Photos 3 & 4.**

Beam 1, at the east end, has a gap between the top of beam and deck, 4' long x up to 1/2" high. **See Photo 5.**

Beam 2, at the west end, has severe section loss and appears to be beginning to buckle. **See Sketch 3 and Photo 6.**

Beam 5, at the west end, has minor section loss. **See Sketch 4 and Photo 7.**

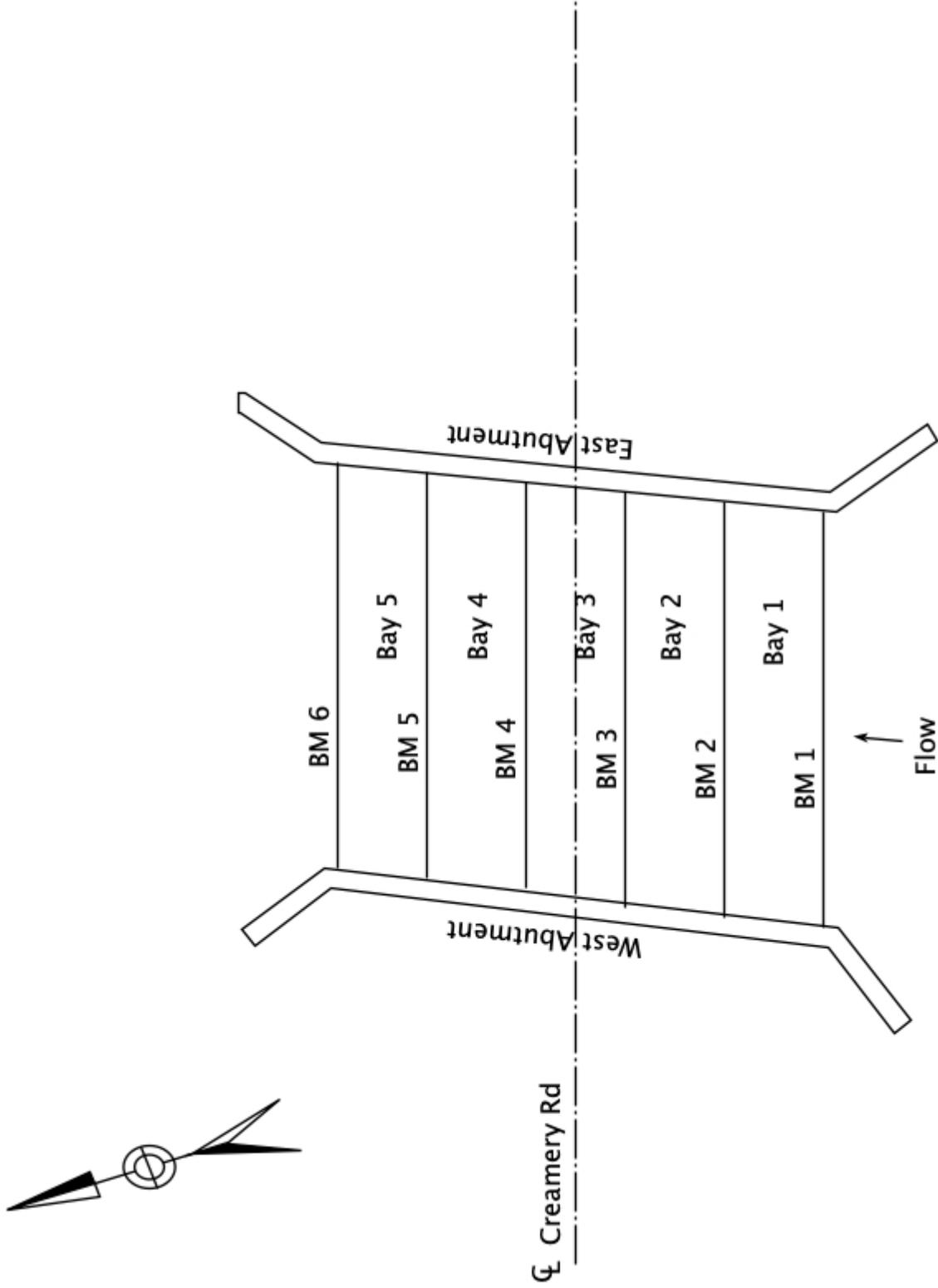
Beam 6, at both ends, has severe section loss. **See Sketch 5 and Photos 8 & 9.**

Sketch / Photo Log

Sketch 1 : Framing plan.
 Sketch 2 : Beam 1 section loss.
 Sketch 3 : Beam 2 section loss.
 Sketch 4 : Beam 5 section loss.
 Sketch 5 : Beam 6 section loss.
 Photo 1 : General topside, looking east.
 Photo 2 : General underside, looking west.
 Photo 3 : Beam 1, east end, section loss.
 Photo 4 : Beam 1, west end, section loss.
 Photo 5 : Beam 1, east end, gap between top of beam and deck.
 Photo 6 : Beam 2, west end, section loss.
 Photo 7 : Beam 5, west end, section loss.
 Photo 8 : Beam 6, east end, section loss.
 Photo 9 : Beam 6, west end, section loss.

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SKETCHES

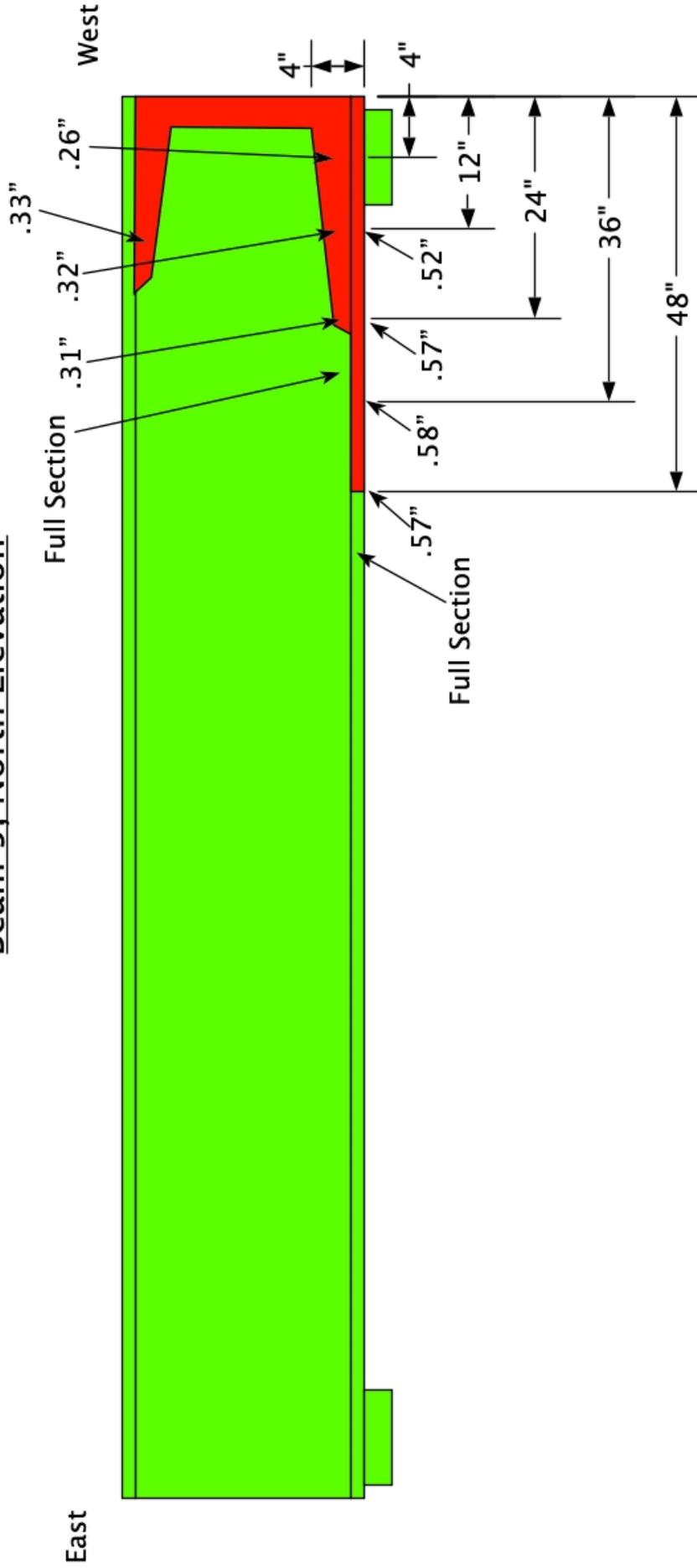


Sketch 1: Framing plan.

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SKETCHES

Beam 5, North Elevation



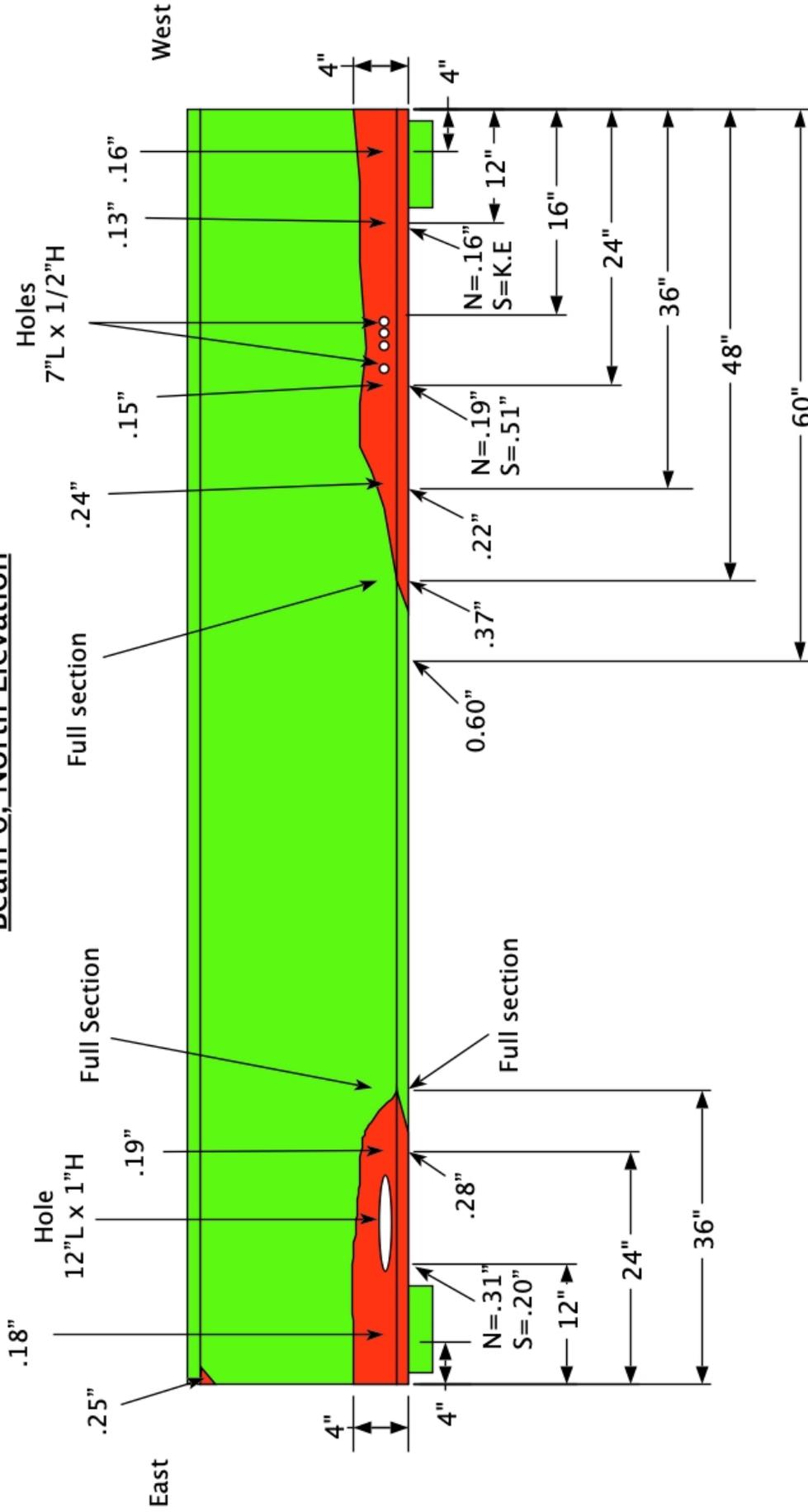
Original section = 12WF50
 Flange = 0.640"
 Web = 0.370"

Sketch 4: Beam 5 section loss.

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SKETCHES

Beam 6, North Elevation



Note: Flange readings taken on North flange unless noted otherwise.

Original section = 12WF50
 Flange = 0.640"
 Web = 0.370"

Sketch 5: Beam 6 section loss.

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PHOTOS

Photo 1: General topside, looking east.



Photo 2: General underside, looking west.

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PHOTOS



Photo 3: Beam 1, east end, section loss.



Photo 4: Beam 1, west end, section loss.

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PHOTOS

Photo 5: Beam 1, east end, gap between top of beam and deck.



Photo 6: Beam 2, west end, section loss.

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PHOTOS



Photo 7: Beam 5, west end, section loss.



Photo 8: Beam 6, east end, section loss.

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PHOTOS

Photo 9: Beam 6, west end, section loss.