

**BESSEMER** AND LAKE ERIE RAILROAD COMPANY

135 JAMISON LANE • P. O. BOX 68 • MONROEVILLE, PENNSYLVANIA 15146

**ORIGINAL**

**DOCUMENT  
FOLDER**

July 27, 1999

Mr. John G. Alford, Secretary  
PA Public Utility Commission  
P.O. Box 3265  
North Office Building  
Harrisburg, PA 17105-3265

C-913419

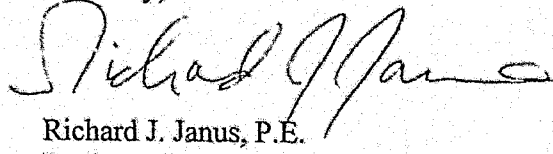
Dear Mr. Alford:

RE: Republic Arch Over SR 1015 and Little Deer Creek (MP 7.77), Indiana Twp., Allegheny Co.

Semi-Annual Inspection Report for West Headwall Monitoring and Spalling Concrete per PUC Order of July 15, 1997, PUC File #00913419

On July 13, 1999, the subject arch over the highway was inspected for spalling and scaling concrete. There was some scale found at the base of the barrel on both sides which appeared to be from spalls along the base. Some loose scale was seen in the barrel at the southwest corner; maintenance will be scheduled. Also, please find attached the latest west headwall monitoring report.

Sincerely,



Richard J. Janus, P.E.  
Engineer Structures

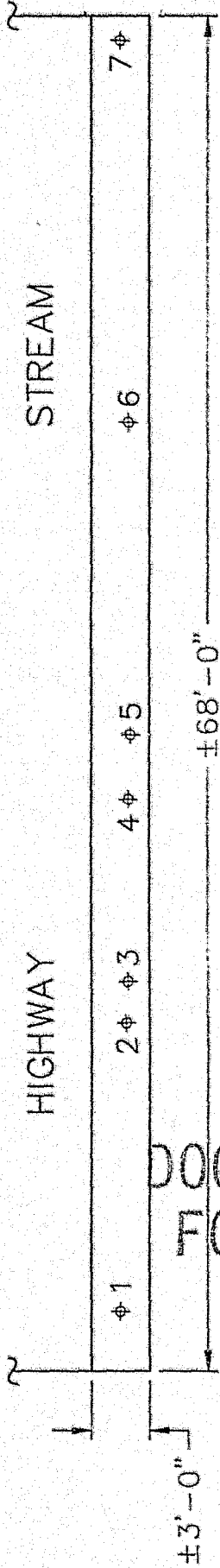
RJJ/cc  
Attachment  
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**RECEIVED**

JUL 30 1999

PA PUBLIC UTILITY COMMISSION  
SECRETARY'S BUREAU

EEF

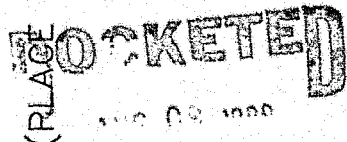


PLAN VIEW - WEST HEADWALL

DOCUMENT FOLDER

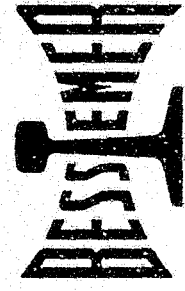
MONITORING INSTRUCTIONS

1. SET UP THE INSTRUMENT (EDM) OVER POINT # 1 (CENTER OVER NAIL HEAD) AND FORESIGHT TO POINT # 7 (NAIL k). USE THIS LINE AS A BASELINE.  
DISTANCE = ±63.96'; ANGLE = 0°00'00".
2. MEASURE OFFSETS TO POINT #'S 2 - 6 (PLACE END OF RULER AGAINST NAIL SHANK EDGE NEAREST THE BASELINE).



LEGEND	
NO.	DESCRIPTION
1	PORTAL NORTH END (SET UP)
2	NORTH OF CRACK @ ROADWAY k
3	SOUTH OF CRACK @ ROADWAY k
4	NORTH OF CRACK BETWEEN ARCHES
5	SOUTH OF CRACK BETWEEN ARCHES
6	NEAR k OF ARCH SPANNING CREEK
7	PORTAL SOUTH END (FORESIGHT)

REVISED 1/27/99 RJJ (CALC. OFFSET INSTRUCTIONS REMOVED)



BESSEMER AND LAKE ERIE RAILROAD COMPANY  
 DOUBLE CONCRETE ARCH (MP 7.77)  
 OVER  
 SR 1015 & LITTLE DEER CREEK  
 WEST HEADWALL MONITORING  
 INDIANA TWP ALLEGHENY CO

OFFICE OF CHIEF ENGINEER  
 MONROEVILLE, PA  
 DRAWN BY \_\_\_\_\_ MAP \_\_\_\_\_

SCALE 1/8" = 1'-0"  
 DATE 7/97

SHEET 1 OF 2

# MONITORING DATA

POINT #	2			3			4			5			6		
	DISTANCE	ANGLE	OFFSET (MEASURED)	DISTANCE	ANGLE	OFFSET (MEASURED)	DISTANCE	ANGLE	OFFSET (MEASURED)	DISTANCE	ANGLE	OFFSET (MEASURED)	DISTANCE	ANGLE	OFFSET (MEASURED)
7/21/97	14.56'	1°13'20"	3 5/8"	16.67'	1°24'45"	4 3/4"	25.86'	0°56'20"	5"	29.14'	1°155'	6 5/16"	44.79'	0°33'25"	5 1/8"
1/6/98	14.54'	1°11'45"	3 3/4"	16.66'	1°23'50"	4 13/16"	25.85'	0°56'40"	5"	29.13'	1°2'25"	6 5/16"	44.79'	0°33'20"	5 1/8"
7/1/98	14.54'	1°09'10"	3 3/4"	16.64'	1°20'15"	4 13/16"	25.83'	0°54'30"	5"	29.13'	1°03'10"	6 1/4"	44.77'	0°33'15"	5 1/8"
1/25/99			3 3/4"			4 13/16"			5 1/8"			6 7/16"			5 1/8"
7/13/99			3 3/4"			4 13/16"			5"			6 5/16"			5 1/16"

NOTE: MEASURED OFFSETS ARE ROUNDED TO THE NEAREST SIXTEENTH.



BESSEMER AND LAKE ERIE RAILROAD COMPANY  
 DOUBLE CONCRETE ARCH (MP 7.77)  
 OVER

SR 1015 & LITTLE DEER CREEK  
 WEST HEADWALL MONITORING  
 INDIANA TWP ALLEGHENY CO

OFFICE OF CHIEF ENGINEER  
 MONROEVILLE, PA  
 DRAWN BY \_\_\_\_\_ MAP \_\_\_\_\_

SCALE 1/8" = 1'-0"  
 DATE 7/97

DAVID SALAPA

D'HART

2001

# BESSEMER AND LAKE ERIE RAILROAD COMPANY

135 JAMISON LANE • P. O. BOX 68 • MONROEVILLE, PENNSYLVANIA 15146

C-913419

PUBLIC UTILITY COMMISSION

FEB 04 2001

January 22, 2001

TRANSPORTATION & SAFETY

INDEXED RECEIVED

Ms. Gina M. D'Alfonso, Esq.  
Office of Chief Counsel  
PA Department of Transportation  
513 Transportation & Safety Bldg.  
Harrisburg, PA 17120

FEB 02 2001

BUREAU OF T & S  
LEGAL DIVISION

DOCUMENT  
FOLDER

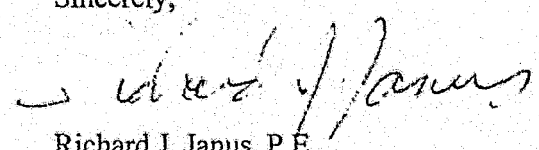
Dear Ms. D'Alfonso:

RE: Republic Arch Over SR 1015 and Little Deer Creek (MP 7.77), Indiana Twp., Allegheny Co.

Semi-Annual Inspection Report for West Headwall Monitoring and Spalling Concrete per PUC Order of July 15, 1997, PUC File #00913419

On January 17, 2001, the subject arch over the highway was inspected for spalling and scaling concrete. There was no scale found on the traveled roadway portion or along the north and south bases of the barrel. Also, please find attached the latest west headwall monitoring report.

Sincerely,



Richard J. Janus, P.E.  
Engineer Structures

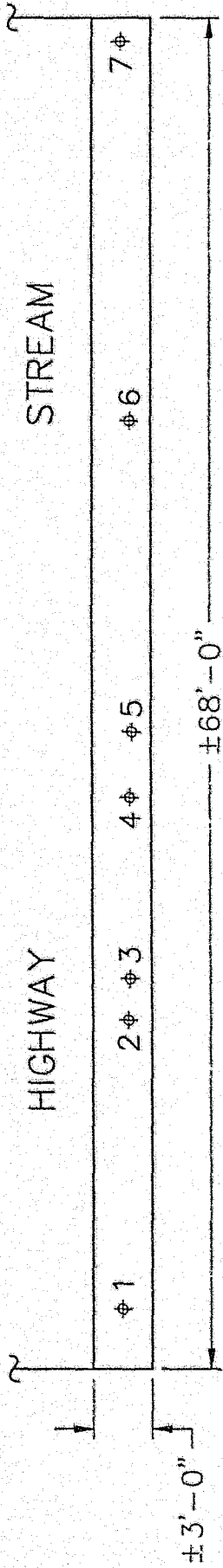
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Attachment  
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FEB 08 2001

PUBLIC UTILITY COMMISSION  
SECRETARY'S BUREAU

RHO



PLAN VIEW - WEST HEADWALL

MONITORING INSTRUCTIONS

1. SET UP THE INSTRUMENT (EDM) OVER POINT # 1 (CENTER OVER NAIL HEAD) AND FORESIGHT TO POINT # 7 (NAIL k). USE THIS LINE AS A BASELINE:  
DISTANCE = ±63.96'; ANGLE = 0°00'00".
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PUBLIC UTILITY COMMISSION

FEB 06 2001

DEPARTMENT OF TRANSPORTATION & SAFETY  
RAIL SAFETY DIVISION

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NO.	DESCRIPTION
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7	PORTAL SOUTH END (FORESIGHT)

REVISED 1/27/99 RJJ (CALC. OFFSET INSTRUCTIONS REMOVED)



SHEET 1 OF 2

BESSEMER AND LAKE ERIE RAILROAD COMPANY  
DOUBLE CONCRETE ARCH (MP 7.77)  
OVER

SR 1015 & LITTLE DEER CREEK  
WEST HEADWALL MONITORING  
INDIANA TWP ALLEGHENY CO

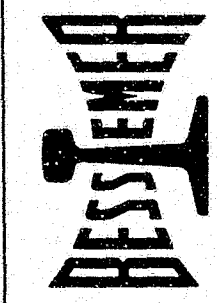
OFFICE OF CHIEF ENGINEER  
MONROEVILLE, PA  
DRAWN BY \_\_\_\_\_ MAP

SCALE 1/8" = 1'-0"  
DATE 7/97

# MONITORING DATA

POINT #:	2			3			4			5			6			
	DATE	DISTANCE	ANGLE	OFFSET (MEASURED)	DISTANCE	ANGLE	OFFSET (MEASURED)	DISTANCE	ANGLE	OFFSET (MEASURED)	DISTANCE	ANGLE	OFFSET (MEASURED)	DISTANCE	ANGLE	OFFSET (MEASURED)
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1/25/99				3 3/4"			4 13/16"			5 1/8"			6 7/16"			5 1/8"
7/13/99				3 3/4"			4 13/16"			5"			6 5/16"			5 1/16"
1/12/00				3 13/16"			4 7/8"			5 1/16"			6 7/16"			5 1/8"
7/25/00				3 13/16"			4 7/8"			5 1/16"			6 3/8"			5 1/8"
1/17/01				3 13/16"			4 15/16"			5 1/4"			6 1/2"			5 1/8"

NOTE: MEASURED OFFSETS ARE ROUNDED TO THE NEAREST SIXTEENTH.



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 OVER  
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