

Memo

To: Docketing Division
From: Thomas Persinger, Rail Project Specialist, Rail Division
Cc: PUCO Legal Department
Date: 4-27-2023
Re: PUCO Case No. 19-423-RR-STP- In the Matter of a Request for Upgrades at Akron Barberton Cluster Railway Crossings in Medina and Portage County, Ohio.

On October 16, 2018, Commission Staff (PUCO) and Akron Barberton Cluster Railway (AB) entered into a stipulation agreement whereby upgraded warning devices would be installed at the following crossings:

Street	DOT#	County	Project
Main Street	262-564G	Portage	Lights and Gates
Medina Line Road	265-079J	Medina	Lights and Gates
Main Street	265-076N	Medina	Lights and Gates

On April 3, 2019, the Commission issued a Finding and Order approving the project, requiring plans and estimates by July 3, 2019 and ordering project completion by April 3, 2020.

The crossing project has been completed and is in-service:

Street	DOT#	County	Date of Completion
Main Street	262-564G	Portage	5-19-2020
Medina Line Road	265-079J	Medina	11-11-2019
Main Street	265-076N	Medina	7-14-2020

Copies of the final crossing inspections are attached. Accordingly, the above case may be closed.

**Public Utilities Commission of Ohio
Transportation Department
Inspection & Investigation Division**

Highway Grade Crossing Warning System Installation Detail 1

Railroad = **Akron Barberton Cluster** Line = _____
Location = **Main Street** AAR# = **262564G** M.P. = **213.1**
City = **Kent** State = **Ohio** County = **Portage**
Construction Start Date = **3/17/2020**

Visible Warning Devices Detail

NE Quad

# Flasher Mast	_____	# Gate Mast	<u>1</u>	# Cantilever	<u>1</u>
# Crossbucks	<u>2</u>	Gate Arm Length	<u>33</u>	Cantilever Length	<u>26</u>
# 2-Way Lights	<u>1</u>	# 1-Way lights	<u>1</u>	# Bells	<u>1</u>
2-Way Lights Size	<u>12</u>	1-Way Lights Size	<u>12</u>	Multiple Track Signs	_____

SW Quad

# Flasher Mast	_____	# Gate Mast	<u>1</u>	# Cantilever	<u>1</u>
# Crossbucks	<u>2</u>	Gate Arm Length	<u>24</u>	Cantilever Length	<u>24</u>
# 2-Way Lights	<u>1</u>	# 1-Way lights	<u>2</u>	# Bells	<u>1</u>
2-Way Lights Size	<u>12</u>	1-Way Lights Size	<u>12</u>	Multiple Track Signs	_____

_____ Quad

# Flasher Mast	_____	# Gate Mast	_____	# Cantilever	_____
# Crossbucks	_____	Gate Arm Length	_____	Cantilever Length	_____
# 2-Way Lights	_____	# 1-Way lights	_____	# Bells	_____
2-Way Lights Size	_____	1-Way Lights Size	_____	Multiple Track Signs	_____

_____ Quad

# Flasher Mast	_____	# Gate Mast	_____	# Cantilever	_____
# Crossbucks	_____	Gate Arm Length	_____	Cantilever Length	_____
# 2-Way Lights	_____	# 1-Way lights	_____	# Bells	_____
2-Way Lights Size	_____	1-Way Lights Size	_____	Multiple Track Signs	_____

**Public Utilities Commission of Ohio
Transportation Department
Inspection & Investigation Division**

Highway Grade Crossing Warning System Installation Detail 2

Railroad = **Akron Barberton Cluster** Line = **0**
Location = **Main Street** AAR# = **262564G** M.P. = **213.1**
City = **Kent** State = **Ohio** County = **Portage**
Construction Start Date = **3/17/2020**

Underground Cable & Conduit Detail

Footage of 5c/#6 to: Signal 1 **105** Signal 2 **175** Signal 3 Signal 4
Footage of 7c/#14 to: Signal 1 **105** Signal 2 **175** Signal 3 Signal 4
Footage of 2c/#6 to: Track 1 **265** Track 2 Track 3 Track 4
Footage of 7c/#14 to: Location 1 Location 2 Location 3 Location 4
Footage of 3c/#9 to: Power 1 **280** Power 2 Power 3 Power 4
4" Conduit under Road = **120** Under tracks = **20** Under Other =

Control Equipment Detail

of Instrument Cases or Bungalows = **1** # of Battery Boxes.
of GCP Units = **1** Manufacturer = **Alstrom** Model # = **XP4**
of PMD Units = Manufacturer = Model # =
of "C" Inverters = Manufacturer = Model # =
GCP Frequency. Unit 1 **970** Unit 2 Unit 3 Unit 4
PMD Frequency. Unit 1 Unit 2 Unit 3 Unit 4
Approach Length. Track 1 **520** Track 2 Track 3 Track 4
Island Length. Track 1 **142** Track 2 Track 3 Track 4
B12 Amp Hour = XB12 Amp Hour = **250** MSB12 Amp Hour = **340**

**Public Utilities Commission of Ohio
Transportation Department
Inspection & Investigation Division**

Highway Grade Crossing Warning System Installation Cut Over Test

Railroad = Akron Barberton Cluster Line = 0
Location = Main Street AAR# = 262564G M.P. = 213.1
City = Kent State = Ohio County = Portage
Cut Over Test Date = 5/19/2020

Attendance Info

PUCO 1 SHAWN ZURFLEY Railroad 1 KEVIN PATONI
PUCO 2 _____ Railroad 2 _____
PUCO 3 _____ Railroad 3 _____

Inspection & Tests Made

Locks? YES Plans in case and correct? YES
Insulation Resistance Test made? YES Relay Test Made? YES
B12 Volts = _____ XB12 Volts = 12.08 MSB12 Volts = 13.32
Grounds Test made? YES Case and Bases Tagged? YES
Lamp Volts AC = 12.1 Lamp Volts DC = 11.7
Lights Focused? YES Flash Rate = 54 FPM @ Light
Gate Arm and lights proper? YES Gate Arm Movement proper? YES
Bells Operate? YES Traffic Pre-emption operates properly? NA
MS / GCP Island Shunt with no time out? YES AC/DC Island Shunted? _____
MS / GCP Approach Shunt with time out? YES AC/DC Approach Shunted? _____
Tested under train moves this date? YES Warning Time observed or set = 35

**Public Utilities Commission of Ohio
Transportation Department
Inspection & Investigation Division**

Highway Grade Crossing Warning System Installation Outline

Railroad = Akron Barberton Cluster Line = 0
Location = Main Street AAR# = 262564G M.P. = 213.1
City = Kent State = Ohio County = Portage
Construction Start Date = 3/17/2020 Cut Over Test Date = 5/19/2020

Visible Warning Devices Outline

# Gate masts.	<u>2</u>	# Cantilever Masts.	<u>2</u>	# Flasher Masts.	<u>0</u>
# 2 - Way light units.	<u>2</u>	# 1 - Way Light units.	<u>3</u>		
# Crossbucks.	<u>4</u>	Multiple Track Signs.	<u>0</u>	# Bells.	<u>2</u>

Underground Cable & Conduit Outline

<u>280</u>	Ft. 5c/#6 Gate/Flasher Cable.	<u>280</u>	Ft. 7c/#14 Control/Flasher Cable
<u>265</u>	Ft. 2c/#6 Track Cable.	<u>0</u>	Ft. 7c/#14 Express Cable.
<u>280</u>	Ft. 3c/#9 Power Cable.		
<u>140</u>	Ft. 4" Conduit.		

Control Equipment Outline

# of Instrument Cases or Bungalows =	<u>1</u>	# of Battery Boxes =	<u>0</u>					
# of GCP Units =	<u>1</u>	Manufacturer =	<u>Alstrom</u>	Model # =	<u>XP4</u>			
# of PMD Units =	<u>0</u>	Manufacturer =	<u>0</u>	Model # =	<u>0</u>			
# of "C" Inverters =	<u>0</u>	Manufacturer =	<u>0</u>	Model # =	<u>0</u>			
GCP Frequency.	Unit 1	<u>970</u>	Unit 2	<u>0</u>	Unit 3	<u>0</u>	Unit 4	<u>0</u>
PMD Frequency.	Unit 1	<u>0</u>	Unit 2	<u>0</u>	Unit 3	<u>0</u>	Unit 4	<u>0</u>
Approach Length.	Track 1	<u>520</u>	Track 2	<u>0</u>	Track 3	<u>0</u>	Track 4	<u>0</u>
Island Length.	Track 1	<u>142</u>	Track 2	<u>0</u>	Track 3	<u>0</u>	Track 4	<u>0</u>
B12 Amp Hour =	<u>0</u>	GB12 Amp Hour =	<u>250</u>	MSB12 Amp Hour =	<u>340</u>			

The above described location was observed to operate as designed in accordance with FRA standards and regulations. (Except those defects noted on FRA Report 2)

Name Shawn A. Zurfley

Title PUCO/FRA Inspector
Date January 7, 2021

**Public Utilities Commission of Ohio
Transportation Department
Inspection & Investigation Division**

Highway Grade Crossing Warning System Installation Detail 1

Railroad = **Akron Barberton Cluster** Line = _____
Location = **Medina Line Road** AAR# = **265079J** M.P. = **213.1**
City = **Barberton** State = **Ohio** County = **Medina**
Construction Start Date = **10/31/2019**

Visible Warning Devices Detail

NW Quad

# Flasher Mast	_____	# Gate Mast	<u>1</u>	# Cantilever	_____
# Crossbucks	<u>1</u>	Gate Arm Length	<u>17</u>	Cantilever Length	_____
# 2-Way Lights	<u>1</u>	# 1-Way lights	_____	# Bells	_____
2-Way Lights Size	<u>12</u>	1-Way Lights Size	_____	† Multiple Track Signs	_____

SE Quad

# Flasher Mast	_____	# Gate Mast	_____	# Cantilever	_____
# Crossbucks	<u>1</u>	Gate Arm Length	<u>17</u>	Cantilever Length	_____
# 2-Way Lights	<u>1</u>	# 1-Way lights	_____	# Bells	<u>1</u>
2-Way Lights Size	<u>12</u>	1-Way Lights Size	_____	† Multiple Track Signs	_____

Quad

# Flasher Mast	_____	# Gate Mast	_____	# Cantilever	_____
# Crossbucks	_____	Gate Arm Length	_____	Cantilever Length	_____
# 2-Way Lights	_____	# 1-Way lights	_____	# Bells	_____
2-Way Lights Size	_____	1-Way Lights Size	_____	† Multiple Track Signs	_____

Quad

# Flasher Mast	_____	# Gate Mast	_____	# Cantilever	_____
# Crossbucks	_____	Gate Arm Length	_____	Cantilever Length	_____
# 2-Way Lights	_____	# 1-Way lights	_____	# Bells	_____
2-Way Lights Size	_____	1-Way Lights Size	_____	† Multiple Track Signs	_____

**Public Utilities Commission of Ohio
Transportation Department
Inspection & Investigation Division**

Highway Grade Crossing Warning System Installation Detail 2

Railroad = **Akron Barberton Cluster** Line = **0**
Location = **Medina Line Road** AAR# = **265079J** M.P. = **213.1**
City = **Barberton** State = **Ohio** County = **Medina**
Construction Start Date = **10/31/2019**

Underground Cable & Conduit Detail

Footage of 5c/#6 to: Signal 1 **155** Signal 2 **85** Signal 3 Signal 4
Footage of 7c/#14 to: Signal 1 **155** Signal 2 **85** Signal 3 Signal 4
Footage of 2c/#6 to: Track 1 **500** Track 2 Track 3 Track 4
Footage of 7c/#14 to: Location 1 Location 2 Location 3 Location 4
Footage of 3c/#9 to: Power 1 **120** Power 2 Power 3 Power 4
4" Conduit under Road = **70** Under tracks = **20** Under Other =

Control Equipment Detail

of Instrument Cases or Bungalows = **1** # of Battery Boxes.
of GCP Units = Manufacturer = Model # =
of PMD Units = Manufacturer = Model # =
of "C" Inverters = **1** Manufacturer = Model # = **TD4**
GCP Frequency. Unit 1 Unit 2 Unit 3 Unit 4
PMD Frequency. Unit 1 Unit 2 Unit 3 Unit 4
Approach Length. Track 1 **470** Track 2 Track 3 Track 4
Island Length. Track 1 **157** Track 2 Track 3 Track 4
B12 Amp Hour = XB12 Amp Hour = **250** MSB12 Amp Hour = **340**

**Public Utilities Commission of Ohio
Transportation Department
Inspection & Investigation Division**

Highway Grade Crossing Warning System Installation Cut Over Test

Railroad = Akron Barberton Cluster Line = 0
Location = Medina Line Road AAR# = 265079J M.P. = 213.1
City = Barberton State = Ohio County = Medina
Cut Over Test Date = 11/11/2019

Attendance Info

PUCO 1 SHAWN ZURFLEY Railroad 1 KEVIN PATONI
PUCO 2 _____ Railroad 2 _____
PUCO 3 _____ Railroad 3 _____

Inspection & Tests Made

Locks? YES Plans in case and correct? YES
Insulation Resistance Test made? YES Relay Test Made? YES
B12 Volts = _____ XB12 Volts = 12.08 MSB12 Volts = 13.32
Grounds Test made? YES Case and Bases Tagged? YES
Lamp Volts AC = 10.3 Lamp Volts DC = 11.6
Lights Focused? YES Flash Rate = 52 FPM @ Light
Gate Arm and lights proper? YES Gate Arm Movement proper? YES
Bells Operate? YES Traffic Pre-emption operates properly? NA
MS / GCP Island Shunt with no time out? _____ AC/DC Island Shunted? YES
MS / GCP Approach Shunt with time out? _____ AC/DC Approach Shunted? YES
Tested under train moves this date? NO Warning Time observed or set = 32

**Public Utilities Commission of Ohio
Transportation Department
Inspection & Investigation Division**

Highway Grade Crossing Warning System Installation Outline

Railroad = Akron Barberton Cluster Line = 0

Location = Medina Line Road AAR# = 265079J M.P. = 213.1

City = Barberton State = Ohio County = Medina

Construction Start Date = 10/31/2019 Cut Over Test Date = 11/11/2019

Visible Warning Devices Outline

# Gate masts.	<u>1</u>	# Cantilever Masts.	<u>0</u>	# Flasher Masts.	<u>0</u>
# 2 - Way light units.	<u>2</u>	# 1 - Way Light units.	<u>0</u>		
# Crossbucks.	<u>2</u>	Multiple Track Signs.	<u>0</u>	# Bells.	<u>1</u>

Underground Cable & Conduit Outline

<u>240</u>	Ft. 5c/#6 Gate/Flasher Cable.	<u>240</u>	Ft. 7c/#14 Control/Flasher Cable
<u>500</u>	Ft. 2c/#6 Track Cable.	<u>0</u>	Ft. 7c/#14 Express Cable.
<u>120</u>	Ft. 3c/#9 Power Cable.		
<u>90</u>	Ft. 4" Conduit.		

Control Equipment Outline

# of Instrument Cases or Bungalows =	<u>1</u>	# of Battery Boxes =	<u>0</u>
# of GCP Units =	<u>0</u>	Manufacturer =	<u>0</u>
# of PMD Units =	<u>0</u>	Manufacturer =	<u>0</u>
# of "C" Inverters =	<u>1</u>	Manufacturer =	<u>0</u>
		Model # =	<u>TD4</u>

GCP Frequency.	Unit 1	<u>0</u>	Unit 2	<u>0</u>	Unit 3	<u>0</u>	Unit 4	<u>0</u>
PMD Frequency.	Unit 1	<u>0</u>	Unit 2	<u>0</u>	Unit 3	<u>0</u>	Unit 4	<u>0</u>
Approach Length.	Track 1	<u>470</u>	Track 2	<u>0</u>	Track 3	<u>0</u>	Track 4	<u>0</u>
Island Length.	Track 1	<u>157</u>	Track 2	<u>0</u>	Track 3	<u>0</u>	Track 4	<u>0</u>

B12 Amp Hour =	<u>0</u>	GB12 Amp Hour =	<u>250</u>	MSB12 Amp Hour =	<u>340</u>
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The above described location was observed to operate as designed in accordance with FRA standards and regulations. (Except those defects noted on FRA Report 3)

Name Shawn A. Zurfley

Title PUCO/FRA Inspector

Date January 7, 2021

**Public Utilities Commission of Ohio
Transportation Department
Inspection & Investigation Division**

Highway Grade Crossing Warning System Installation Detail 1

Railroad = Akron Barberton Cluster Line = _____
Location = Main Street Wadsworth AAR# = 265076N M.P. = 215.57
City = Wadsworth State = Ohio County = Medina
Construction Start Date = 6/29/2020

Visible Warning Devices Detail

SE Quad

# Flasher Mast	_____	# Gate Mast	<u>1</u>	# Cantilever	_____
# Crossbucks	<u>1</u>	Gate Arm Length	<u>18</u>	Cantilever Length	_____
# 2-Way Lights	<u>1</u>	# 1-Way lights	_____	# Bells	_____
2-Way Lights Size	<u>12</u>	1-Way Lights Size	_____	† Multiple Track Signs	_____

NW Quad

# Flasher Mast	_____	# Gate Mast	_____	# Cantilever	_____
# Crossbucks	<u>1</u>	Gate Arm Length	<u>17</u>	Cantilever Length	_____
# 2-Way Lights	<u>1</u>	# 1-Way lights	_____	# Bells	<u>1</u>
2-Way Lights Size	<u>12</u>	1-Way Lights Size	_____	† Multiple Track Signs	_____

Quad

# Flasher Mast	_____	# Gate Mast	_____	# Cantilever	_____
# Crossbucks	_____	Gate Arm Length	_____	Cantilever Length	_____
# 2-Way Lights	_____	# 1-Way lights	_____	# Bells	_____
2-Way Lights Size	_____	1-Way Lights Size	_____	† Multiple Track Signs	_____

Quad

# Flasher Mast	_____	# Gate Mast	_____	# Cantilever	_____
# Crossbucks	_____	Gate Arm Length	_____	Cantilever Length	_____
# 2-Way Lights	_____	# 1-Way lights	_____	# Bells	_____
2-Way Lights Size	_____	1-Way Lights Size	_____	† Multiple Track Signs	_____

**Public Utilities Commission of Ohio
Transportation Department
Inspection & Investigation Division**

Highway Grade Crossing Warning System Installation Detail 2

Railroad = **Akron Barberton Cluster** Line = **0**
Location = **Main Street Wadsworth** AAR# = **265076N** M.P. = **215.57**
City = **Wadsworth** State = **Ohio** County = **Medina**
Construction Start Date = **6/29/2020**

Underground Cable & Conduit Detail

Footage of 5c/#6 to: Signal 1 **150** Signal 2 **85** Signal 3 Signal 4
Footage of 7c/#14 to: Signal 1 **150** Signal 2 **85** Signal 3 Signal 4
Footage of 2c/#6 to: Track 1 **480** Track 2 Track 3 Track 4
Footage of 7c/#14 to: Location 1 Location 2 Location 3 Location 4
Footage of 3c/#9 to: Power 1 **40** Power 2 Power 3 Power 4
4" Conduit under Road = **70** Under tracks = **20** Under Other =

Control Equipment Detail

of Instrument Cases or Bungalows = **1** # of Battery Boxes.
of GCP Units = Manufacturer = Model # =
of PMD Units = Manufacturer = Model # =
of "C" Inverters = **1** Manufacturer = Model # = **TD4**
GCP Frequency. Unit 1 Unit 2 Unit 3 Unit 4
PMD Frequency. Unit 1 Unit 2 Unit 3 Unit 4
Approach Length. Track 1 **470** Track 2 Track 3 Track 4
Island Length. Track 1 **158** Track 2 Track 3 Track 4
B12 Amp Hour = XB12 Amp Hour = **250** MSB12 Amp Hour = **340**

**Public Utilities Commission of Ohio
Transportation Department
Inspection & Investigation Division**

Highway Grade Crossing Warning System Installation Cut Over Test

Railroad = Akron Barberton Cluster Line = 0
Location = Main Street Wadsworth AAR# = 265076N M.P. = 215.57
City = Wadsworth State = Ohio County = Medina
Cut Over Test Date = 7/14/2020

Attendance Info

PUCO 1 SHAWN ZURFLEY Railroad 1 KEVIN PATONI
PUCO 2 _____ Railroad 2 _____
PUCO 3 _____ Railroad 3 _____

Inspection & Tests Made

Locks? YES Plans in case and correct? YES
Insulation Resistance Test made? YES Relay Test Made? YES
B12 Volts = _____ XB12 Volts = 12.08 MSB12 Volts = 13.32
Grounds Test made? YES Case and Bases Tagged? YES
Lamp Volts AC = 10.74 Lamp Volts DC = 11.03
Lights Focused? YES Flash Rate = 52 FPM @ Light
Gate Arm and lights proper? YES Gate Arm Movement proper? YES
Bells Operate? YES Traffic Pre-emption operates properly? NA
MS / GCP Island Shunt with no time out? _____ AC/DC Island Shunted? YES
MS / GCP Approach Shunt with time out? _____ AC/DC Approach Shunted? YES
Tested under train moves this date? YES Warning Time observed or set = 32

**Public Utilities Commission of Ohio
Transportation Department
Inspection & Investigation Division**

Highway Grade Crossing Warning System Installation Outline

Railroad = **Akron Barberton Cluster** Line = **0**
 Location = **Main Street Wadsworth** AAR# = **265076N** M.P. = **215.57**
 City = **Wadsworth** State = **Ohio** County = **Medina**
 Construction Start Date = **6/29/2020** Cut Over Test Date = **7/13/2020**

Visible Warning Devices Outline

# Gate masts.	<u>1</u>	# Cantilever Masts.	<u>0</u>	# Flasher Masts.	<u>0</u>
# 2 - Way light units.	<u>2</u>	# 1 - Way Light units.	<u>0</u>		
# Crossbucks.	<u>2</u>	Multiple Track Signs.	<u>0</u>	# Bells.	<u>1</u>

Underground Cable & Conduit Outline

<u>235</u> Ft. 5c/#6 Gate/Flasher Cable.	<u>235</u> Ft. 7c/#14 Control/Flasher Cable
<u>480</u> Ft. 2c/#6 Track Cable.	<u>0</u> Ft. 7c/#14 Express Cable.
<u>40</u> Ft. 3c/#9 Power Cable.	
<u>90</u> Ft. 4" Conduit.	

Control Equipment Outline

# of Instrument Cases or Bungalows = <u>1</u>	# of Battery Boxes = <u>0</u>
# of GCP Units = <u>0</u> Manufacturer = <u>0</u>	Model # = <u>0</u>
# of PMD Units = <u>0</u> Manufacturer = <u>0</u>	Model # = <u>0</u>
# of "C" Inverters = <u>1</u> Manufacturer = <u>0</u>	Model # = <u>TD4</u>

GCP Frequency.	Unit 1	<u>0</u>	Unit 2	<u>0</u>	Unit 3	<u>0</u>	Unit 4	<u>0</u>
PMD Frequency.	Unit 1	<u>0</u>	Unit 2	<u>0</u>	Unit 3	<u>0</u>	Unit 4	<u>0</u>
Approach Length.	Track 1	<u>470</u>	Track 2	<u>0</u>	Track 3	<u>0</u>	Track 4	<u>0</u>
Island Length.	Track 1	<u>158</u>	Track 2	<u>0</u>	Track 3	<u>0</u>	Track 4	<u>0</u>

B12 Amp Hour = <u>0</u>	GB12 Amp Hour = <u>250</u>	MSB12 Amp Hour = <u>340</u>
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The above described location was observed to operate as designed in accordance with FRA standards and regulations. (Except those defects noted on FRA Report 3)

Name Shawn A. Zurfley

 Title PUCO/FRA Inspector
 Date January 7, 2021

**This foregoing document was electronically filed with the Public Utilities
Commission of Ohio Docketing Information System on**

4/27/2023 2:38:06 PM

in

Case No(s). 19-0423-RR-STP

Summary: Memorandum Memo regarding completion of the project for Upgrades at Akron Barberton Cluster Railway Crossings in Medina and Portage County, Ohio, filed by Tom Persinger, Rail Project Specialist. electronically filed by Mr. Thomas Persinger on behalf of PUCO/Rail Division.