RECEIVED-DOCKETING DIV

2014 MAY 19 PH 1:45

**Public Utilities Commission of Ohio** 

14-0906-RR-FED

**PUCO** 

Memo

To: **Docketing Division** 

From: George Martin, Grade Crossing Planner, Rail Division

<u>A</u>

Re: In the matter of the authorization of Wheeling & Lake Erie Railway to install active grade crossing warning devices in Huron and Richland Counties

#### Date: May 19, 2014

The Ohio Rail Development Commission (ORDC) has authorized funding for Wheeling & Lake Erie Railway (WE) to install mast-mounted flashing lights and roadway gates at Huron County, City of Norwalk, Woodlawn Rd, DOT# 473634C, and Richland County, Village of Plymouth, Riggs Ave, DOT# 001973E. The crossings were surveyed on November 12, 2013 due to their hazard index and were found to warrant the upgrade.

The projects will be paid for with federal funds, and are actual cost. As the plans and estimates have already been submitted and approved, staff requests a Finding & Order with completion of the projects in nine months. Construction may commence at once. Staff requests that the following language be incorporated in the Entry:

It is expected that all work necessary for FHWA acceptance of the warning devices will be completed by the in-service due date and that the railroad will be responsible for this work. This work includes, but is not limited to:

Any ancillary work to make the warning devices function as designed and visible to the roadway user, and

MUTCD compliance, including minor roadway work if necessary.

A suggested case coding and heading would be:

PUCO Case No. 14- OGOG -RR-FED In the matter of the authorization of Wheeling & Lake Erie Railway to install active grade crossing warning devices in Huron and Richland Counties

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locument delivered in the regular course of

C: Legal Department

Please serve the following parties of record

Fechnician.

Page 1

Ms Cathy Stout Ohio Rail Development Commission 1980 West Broad St, Mailstop #3140 Columbus, Oh 43223

Mr Tim Andrews

Wheeling & lake Erie Railway

100 E First St

Brewster, Oh 44613

Mr Joshua Snyder, PE

Public Works Director

38 Whittlesey Ave

Norwalk, Oh 44857

Mr Bill Sexton, Administrator

48 W. Broadway St.

Plymouth, Ohio 44865

Ohio Edison

American Municipal Power

## OHIO RAIL DEVELOPMENT COMMISSION INTER-OFFICE COMMUNICATION

TO:	George Martin, Rail Division, PUCO
FROM:	Cathy Stout, Manager, Safety Section, ORDC
BY:	Joe Reinhardt, Project Manager, ORPC
SUBJECT:	Huron County, Woodland Avenue, DOT 473634C Wheeling & Lake Erie Rwy, PID 97284
DATE:	May 12, 2014

The Public Utilities Commission of Ohio (PUCO) established a diagnostic survey at the subject location on Woodlawn Avenue. The Ohio Rail Development Commission (ORDC) attended the review. The Diagnostic Team recommended the improvement of warning devices to flashing lights and roadway gates. Copies of the diagnostic review form and the plan and estimate are attached.

PE has already been provided by the railroad. ORDC approves the site plans and estimates as provided. Please issue a construction-only order for the project outlined above. This construction authorization is made with the stipulation and understanding that any field work needs prior approval before the work begins. This authorization is made with the stipulation and understanding that an approved estimate may contain entries for items or activities that may be cited and found to be ineligible for federal participation during the project audit.

It is expected that all work necessary for FHWA acceptance of the warning devices will be completed by the in-service due date and that the <u>railroad will be responsible</u> for this work. This work includes, but is not limited to:

- any ancillary work to make warning devices function as designed and visible to the roadway user, and
- MUTCD compliance including minor roadway work if necessary.

Thank you for your assistance with these matters.

Attachment: Diagnostic Review Plan & Estimate

c: George Martin, PUCO ORDC Project Manager (file)

### OHIO RAIL DEVELOPMENT COMMISSION INTER-OFFICE COMMUNICATION

TO:	George Martin, Rail Division, PUCO
FROM:	Cathy Stout, Manager, Safety Section, ORDC
BY:	Joe Reinhardt, Project Manager, ORDC
SUBJECT:	Richland County, Riggs Avenue, DOT 001973E Wheeling & Lake Erie Rwy, PID 97295
DATE:	May 12, 2014

The Public Utilities Commission of Ohio (PUCO) established a diagnostic survey at the subject location on Riggs Avenue. The Ohio Rail Development Commission (ORDC) attended the review. The Diagnostic Team recommended the improvement of warning devices to flashing lights and roadway gates. Copies of the diagnostic review form and the plan and estimate are attached.

PE has already been provided by the railroad. ORDC approves the site plans and estimates as provided. Please issue a construction-only order for the project outlined above. This construction authorization is made with the stipulation and understanding that any field work needs prior approval before the work begins. This authorization is made with the stipulation and understanding that an approved estimate may contain entries for items or activities that may be cited and found to be ineligible for federal participation during the project audit.

It is expected that all work necessary for FHWA acceptance of the warning devices will be completed by the in-service due date and that the <u>railroad will be responsible</u> for this work. This work includes, but is not limited to:

- any ancillary work to make warning devices function as designed and visible to the roadway user, and
- MUTCD compliance including minor roadway work if necessary.

Thank you for your assistance with these matters.

Attachment: Diagnostic Review Plan & Estimate

c: George Martin, PUCO ORDC Project Manager (file)

# OHIO RAIL DEVELOPMENT COMMISSION

# **Diagnostic Review Team Survey**

Reason for Survey: (e.g. formula, accident, constituent, etc.)	. Pick		Date: ////2//	3
Location Data				
Street or Road Name: Riggs Avenue			an ann an State Anna ann an	
Route/Road Number (i.e. Twp., Co., SR or US)			US DOT No.: 001	973E
County: RIC Township:		City: (In or Near)	Village of Plymouth	
Railroad Name: Wheeling & Lake Erie RR	Railroad Division:		Branch/ Name:	Line Main
Nearest RR Timetable Station: Plymouth			RR Milepost: 93	.05
On-Site Review Team				
(Include: Name - Organisation - Phone Number 1	-Email) ORNC-	614-644-	0291	
2. VGEORGE MART	N PUCO	614-7.	52-9107	
3DAN REINSEL	WLE	330-7	67-720Z	
4. KAND PATTERSO	J Puco	614 4	466-1150	
5.				
6				<u> </u>
	<u></u>	·	· · · · · · · · · · · · · · · · · · ·	<u> </u>
7				
8				· · · · · · · · · · · · · · · · · · ·
9				
Existing Traffic Control Dovicou				
Type of Warning Devices	Inst	lied?	Quan	ity/Comments
Advance Warning Signs (condition?)	X Yes		Quan	
'Stop' Signs		No		
'Stop Ahead' Signs		<u>A</u> No		
Pavement Markings (condition?)	Yes	No No		•
Crossbucks	X Yes	N₀	2 w	VIELD
Number of Tracks Signs	Yes	 Ø↓No		
Inventory Tags	[7]↓Yes	No	Emerge	icij
Interconnected Highway Traffic Signal	☐ Yes	No No		
Mast-Mounted Flashing Lights				
Cantilever Flashing Lights	☐ Yes	K No	Number:	Length:
Side Lights		 ∏ No		
Automatic Gates		No	Number:	Length:
Bells		M No	Number:	<u>_</u>
Sidewalk Gate Arms		No No		
'No Turn' Signs				······
Illumination	X Yes	N₀		
Is crossing flagged by train crew?	TYes			
Other		⊼ No		

I

Safety Data (Obtain cr	ash repo	rts, if possible, prior to review)	na ana amin'ny soratra dia mampiasa amin'ny fisiana. Ny INSEE dia mampiasa dia mampias		
	Initial Information (from database)		Revised		
Number & dates of crashes in previous 5 years	1 (2/8/2013)		· · ·		
Hazard Ranking	423	Date Run: 10/9/2013			
Railroad Data					
Railroad Characteris	stics	Initial Information (from database)	Revised		
Total trains per day		4			
< 1 per day					
Day thru trains		0			
Night thru trains		2			
Daytime switching moveme	ents	2	·		
Nighttime switching moven	nents	0	· · · · · · · · · · · · · · · · · · ·		
Total number of tracks		1			
Number of main tracks		1			
Number of other tracks		0			
Maximum train speed		40	·····		
Typical train speed		40			
Amtrak					
If non-gated crossing, is clearin	ig sight distan	ce adequate in all quadrants? (See Table I)	K Yes □ No		
If multiple tracks, can two train	ns occupy cro	ossing at the same time? 🗌 Yes 🛛 🔣 No			
Can one train block the motor	rists' view of	another train at crossing? 🔲 Yes (Explain be	elow) 🖾 No		
Can one or more tracks be eli	minated thro	Can one or more tracks be eliminated through the crossing? $\Box$ Yes $\Box$ XNo			
Are there other track(s) cross If yes, Crossing DOT #(if d If yes, distance	ing this same lifferent) (take mea	roadway within 100 ft of this crossing?	Yes ZNo		
Are there other track(s) cross If yes, Crossing DOT #(if d If yes, distance Roadway Data	ing this same lifferent) (take me	roadway within 100 ft of this crossing?	Yes DNo est point along roadway)		
Are there other track(s) cross If yes, Crossing DOT #(if d If yes, distance Roadway Data Local Highway Authority:	ing this same lifferent) (take mea	roadway within 100 ft of this crossing?	Yes DNo est point along roadway)		
Are there other track(s) cross If yes, Crossing DOT #(if d If yes, distance	ing this same lifferent) (take me take me stics	roadway within 100 ft of this crossing?	Yes DNo est point along roadway) Revised		
Are there other track(s) cross If yes, Crossing DOT #(if d If yes, distance	ing this same lifferent) (take me (take me stics	village of Plymouth Initial Information (from database)	Yes ZNO est point along roadway) Revised		
Are there other track(s) cross If yes, Crossing DOT #(if d If yes, distance	ing this same lifferent) (take mean (take mean (take mean (take mean) (take mean)) (take mean))) (take mean)) (take mean))) (	readway within 100 ft of this crossing?         roadway within 100 ft of this crossing?         asurement between track centerlines at close         Village of Plymouth         Initial Information (from database)         State         Yes         No	Yes No est point along roadway) Revised Yes No		
Are there other track(s) cross If yes, Crossing DOT #(if d If yes, distance	ing this same lifferent) (take me (take me stics	village of Plymouth         Initial Information (from database)	Yes No est point along roadway) Revised Yes No		
Are there other track(s) cross If yes, Crossing DOT #(if d If yes, distance	ing this same lifferent) (take mean stics stics	village of Plymouth         Initial Information (from database)	Yes No est point along roadway) Revised Yes No		
Are there other track(s) cross If yes, Crossing DOT #(if d If yes, distance	ing this same lifferent) (take means (take means) (take means) (t	agenute crossing:       1 res       1 res <td>Yes No est point along roadway) Revised Yes No</td>	Yes No est point along roadway) Revised Yes No		
Are there other track(s) cross If yes, Crossing DOT #(if d If yes, distance	ing this same lifferent) (take means stics	agentite crossing:       1 res       1 res </td <td>Yes No est point along roadway) Revised Yes No</td>	Yes No est point along roadway) Revised Yes No		
Are there other track(s) cross If yes, Crossing DOT #(if d If yes, distance Roadway Data Local Highway Authority: Roadway Characterin Average daily traffic Highway paved Roadway Surface: Blacktop Roadway width:ft. Number of highway lanes Urban or Rural Vehicle Speed:MPH	ing this same lifferent) (take mean stics	village of Plymouth         Initial Information (from database)         Initinial Information (from database) <td< td=""><td>Yes No est point along roadway)  Revised  Yes No</td></td<>	Yes No est point along roadway)  Revised  Yes No		
Are there other track(s) cross If yes, Crossing DOT #(if d If yes, distance	ing this same lifferent) (take mean stics stics	agen the crossing:       1 res       1 res </td <td>Yes No est point along roadway)  Revised  Yes No</td>	Yes No est point along roadway)  Revised  Yes No		
Are there other track(s) cross If yes, Crossing DOT #(if d If yes, distance Roadway Data Local Highway Authority: Roadway Characteris Average daily traffic Highway paved Roadway Surface: Blacktop Roadway width: ft. Number of highway lanes Urban or Rural Vehicle Speed: MPH School Bus Operation: X No Hazardous Materials Trucks:	ing this same lifferent) (take mean stics stics > Gravel Yes No	agen the crossing:   roadway within 100 ft of this crossing?   asurement between track centerlines at close   Village of Plymouth   Initial Information (from database)   Initial Information (from database)   Image:	Yes No est point along roadway)  Revised  Yes No		
Are there other track(s) cross If yes, Crossing DOT #(if d If yes, distance <b>Roadway Data</b> Local Highway Authority: <b>Roadway Characteris</b> Average daily traffic Highway paved Roadway Surface: Blacktop Roadway width:ft. Number of highway lanes Urban or Rural Vehicle Speed: MPH School Bus Operation: X No Hazardous Materials Trucks: [ Shoulders: NoY	ing this same lifferent) (take mean stics stics color Gravel Yes No es	agin the crossing:   roadway within 100 ft of this crossing?   roadway within 100 ft of this crossing?   asurement between track centerlines at close   Village of Plymouth   Initial Information (from database)   Initial Information (from database)   Image: [3]   (2006)   Pres   Concrete   Other     2   Rural     Amount	Yes No est point along roadway)  Revised  Yes No		
Are there other track(s) cross If yes, Crossing DOT #(if d If yes, distance Roadway Data Local Highway Authority: Roadway Characteris Average daily traffic Highway paved Roadway Surface: Blacktop Roadway Surface: Blacktop Roadway width: ft. Number of highway lanes Urban or Rural Vehicle Speed: MPH School Bus Operation: X No Hazardous Materials Trucks: Shoulders: No Y	ing this same ifferent) (take means stics stics D Gravel Yes No es No	agen the crossing:   roadway within 100 ft of this crossing?   roadway within 100 ft of this crossing?   asurement between track centerlines at close   Village of Plymouth   Initial Information (from database)   Initial Information (from database)   Image:	Yes No est point along roadway)		
Are there other track(s) cross If yes, Crossing DOT #(if d If yes, distance <b>Roadway Data</b> Local Highway Authority: <b>Roadway Characteris</b> Average daily traffic Highway paved Roadway Surface: Blacktop Roadway width:ft. Number of highway lanes Urban or Rural Vehicle Speed: MPH School Bus Operation: X No Hazardous Materials Trucks: [ Shoulders: NoY Is the shoulder surfaced? X N	ing this same ifferent) (take means stics stics control Gravel Yes No es No groadway in	agen the crossing: I res   roadway within 100 ft of this crossing?   asurement between track centerlines at close   Village of Plymouth   Initial Information (from database)   Initial Information (from database)   Image:   Ima	Yes No est point along roadway)  Revised  Yes No		

2

Quadrant <u>NW</u> Curb and Gutter:	Quadrant Scanter:	
Functional (Curb height = 4" or more)	Functional (Curb height = 4" or more)	
Non-functional (Curb height = Less than 4")	Non-functional (Curb height = Less than 4")	
None None	X None	
Pedestrians: 🚺 No 🔲 Yes		
Is sidewalk present? No Yes		
Is there a nearby intersection that could cause queuing over the ci If yes, Distance	rossing? 📈 No 🗌 Yes	
ls this intersection signalized? 🔀 No 🗌 Yes		
Are the signals currently interconnected with the existing crossi	ng warning devices? 🔲 No 🛛 📋 Yes	
is there a 'Do not Stop on Track' sign? 🖄 No 🛛 🗌 Yes		
Is a roadway improvement project (e.g. widening, turn lanes, nearl location in the foreseeable future?  No  Yes	by new or upgraded traffic signal, sidewalk) planned at or near this	
Improvement type Lead Agency	Timeline/completion	
Is it the consensus of the Diagnostic Review Team that this is a po	tential closure project: M No	
Explain reasons:		
Type of Development		
Open Space Institutional Location of nearby	r schools:	
Industrial Commercial		
A Residential		
Utility Information	한 동안에 동안을 수는 것을 수가로 가지 않는 것이 많이 많이 많이 있다. 	
ls commercial power available? 🗌 No 🛛 🕅 Yes		
Utility Provider (Company Name)	Phone Number	
Nearest Available Power Source		
What other utilities are present?       Gas       Cable         (add locations to sketch)       Petroleum       Water         Other       Other	Telephone Fiber Optic Cable Sanitary Sewer	
Is(are) there potential utility conflict(s) [] Yes [] No [ Comments:	Unknown	

:

**Potential Red Flags / Project Challenges** Traffic Signal Preemption (include traffic signal intersection name and LHA with jurisdiction over traffic signal, if known): Crossing Consolidation or Closure: Real Estate or ROW: Culverts / Drainage / Ballast Conditions: Extend Small Culverts on both sides. Roadway and/or Sidewalks: Circuitry (e.g. reaches out to other crossings, specific needs, etc.): Diamond West of CRESSING Environmental: Other: PH-12-13

Diagnostic Team Recommendations	가지 않는 것은 것은 것이 있는 것이 있는 것이 있는 것이 가지 않는 것이 가장 있다. 같은 것은 것이 있는 것은 것이 같은 것이 같은 것이 같은 것이 있는 것이 같은 것이 있다. 것이 있는 것이 있는 것이 있는
	Quadrants Needed
X Install/upgrade active devices	
Automatic Flashing Lights (AFLS)	
AFLS /Cants	ī 1
AFLS / Gates	SE & NW
AFLS / Gates / Cants	
Bells / number	
Upgrade circuitry / type	
Sidelights	
Guardrail Needed	
Install/Replace curb	
Bungalow placement & offset from rail & highway	
Other (define)	
Install/upgrade traffic signal preemption	
No improvements needed	
Other (define)	
Acknowledgement of Recommendations (each entity represented	at the diagnostic must have at least one signature
Dan REINSEL Rucht	Jan -

# UPDATED (04/2013)





11/13/2013

#### TABLE I

## **Clearing Sight Distances**

Maximum Authorized Train Speed	Distance (dT) Along Railroad from Crossing (ft)
1 - 10	240
15	360
20	480
25	600
30	720
35	840
(40)	960
45	1080
50	1200
55	1320
60	1440
65	1560
70	1680
75	1800
80	1920
85	2040
90	2160

Source: R-H Grade Crossing Handbook Table 36 (pp. 132-133)

Notes:

All calculated distances are rounded up to the next higher 5foot increment.

Distances indicated are for 65-ft double bottom semi-tractor trailers and level single track 90 degree crossings; and may need to be adjusted for multiple tracks, skewed crossings or approaches on grades.

Clearing Sight Distance is to be measured in each vehicle travel direction at <u>non-gated crossings</u> as viewed from a point 25 feet from centerline of nearest track in the center of whichever travel lane is nearest the direction along track being measured.

## Table 2

#### **Stopping Sight Distances**

Highway Vehicle Speed	Distance (dH) Along Roadway from Crossing (ft)
0	n/a
5	50
10	70
15	105
20	135
25	180
30	225
35	280
40	340
45	410
50	490
55	570
60	660
65	760
70	865

Source: R-H Grade Crossing Handbook Table 36 (pp. 132-133) Notes:

All calculated distances are rounded up to the next higher 5foot increment.

Distances indicated are for 65-ft double bottom semi-tractor trailers on dry level pavements.

Stopping Sight Distance is to be measured on each roadway approach to crossing from stop bar.

HUL 17-13

## OHIO RAIL DEVELOPMENT COMMISSION INTER-OFFICE COMMUNICATION

TO:	George Martin, Rail Division, PUCO
FROM:	Cathy Stout, Manager, Safety Section, ORDC
BY:	Joe Reinhardt, Project Manager, ORPC
SUBJECT:	Huron County, Woodland Avenue, DOT 473634C Wheeling & Lake Erie Rwy, PID 97284
DATE:	May 12, 2014

The Public Utilities Commission of Ohio (PUCO) established a diagnostic survey at the subject location on Woodlawn Avenue. The Ohio Rail Development Commission (ORDC) attended the review. The Diagnostic Team recommended the improvement of warning devices to flashing lights and roadway gates. Copies of the diagnostic review form and the plan and estimate are attached.

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- any ancillary work to make warning devices function as designed and visible to the roadway user, and
- MUTCD compliance including minor roadway work if necessary.

Thank you for your assistance with these matters.

Attachment: Diagnostic Review Plan & Estimate

c: George Martin, PUCO ORDC Project Manager (file)

# OHIO RAIL DEVELOPMENT COMMISSION

# **Diagnostic Review Team Survey**

	Tabiostic ICAIC	iv i calli Du	uvey		
Reason for Survey: (e.g. formula, accident, constituent, etc.)	Pick		Date: // /	12/13	
Location Data					
Street or Road Name: Woodlawn Avenu	Je				
Route/Road Number			US DOT No.:		
(i.e. Twp., Co., SR or US)					
County: HUR Township:		City: (In or Near)	Norwalk		
Railroad Wheeling & Lake Erie RR	Railroad Division: 8			Branch/Line Name:	
Nearest RR Timetable Station: Norwalk			RR Milepost	<sup>:</sup> 65.67	
On-Site Review Team			(外方性)(時代) - 注意: 11:54-19		
(Include: Name=Organization-Phone Number	- Email)				
1 De Kerhadt	DRILC 614	1-644-02	291		:
2 Cara La Mar	174 12460	6.14-75	2-9107	· · · · · · · · · · · · · · · · · · ·	- ·
2. Day REIMEL	LULE	231-76	7-720	2	
D T	<u> </u>	11441	6.1154		
4. Kuc Jahnson	<u> </u>	17 700		/~	
5. Hoch styl	<u><u> </u></u>	wwslk -	19-63-1	6135	<del></del>
6. 302 toustan	Lify of	Nerwe He	LI19 6	663-6700	
7	\				
8					
9					
			•. •		
Existing Traffic Control Devices	5				
Type of Warning Devices	Install	ed?		Quantity/Comment	S
Advance Warning Signs (condition?)	X Yes	No		2	
'Stop' Signs	Yes	<b>X</b> No			
'Stop Ahead' Signs	Yeş	N₀			
Pavement Markings (condition?)	Yes	[A] N₀			
Crossbucks	Yes 🔀	<u>□</u> No		_2	
Number of Tracks Signs	Yes	<mark>∕ N</mark> o			
Inventory Tags	Yes Yes	□ No		-14x per cy	
Interconnected Highway Traffic Signal	Yes	X No		<u> </u>	
Mast-Mounted Flashing Lights	Yes Yes	No No			
Cantilever Flashing Lights	X Yes	No No	Number:	Length:	10
Side Lights	X Yes	No No			
Automatic Gates		N/No	Number	Length:	

X Yes

Yes

Yes

X Yes

Yes

Yes

🗋 No

No No

No

No No

🚺 No

🖌 No

Number:

Sidewalk Gate Arms

is crossing flagged by train crew?

'No Turn' Signs

Illumination

Other

Bells

I

Salety Data (Obtain cr	ash repo	rts, if possible, prior to review)		
	Init	ial Information (from database)	Revised	
Number & dates of crashes in previous 5 years	0			
Hazard Ranking	1229	Date Run: 10/9/2013		
Railroad Data				
Railroad Characterist	tics	Initial Information (from database)	Revised	
Total trains per day		8		
< I per day				
Day thru trains		4		
Night thru trains		4		
Daytime switching movement	nts	0		
Nighttime switching movem	ents	0		
Total number of tracks		1		
Number of main tracks		1		
Number of other tracks		0		
Maximum train speed	<u>.</u>	40		
Typical train speed		40	·	
Amtrak				
If non-gated crossing, is clearing	g sight distan	ce adequate in all quadrants? (See Table 1)	X Yes 🗍 No	
If multiple tracks, can two train:	s occupy cro	ossing at the same time? 🔲 Yes 🛛 🕅 No		
Can one train block the motori	ists' view of	another train at crossing? 🗍 Yes (Explain be	elow) 🕅 No	
Can one or more tracks be elin	ninated thro	ugh the crossing? 📋 Yes 🛛 🕅 No		
Can one or more tracks be elin Are there other track(s) crossi	ninated thro ng this same	ugh the crossing? TYes X No	Yes XNo	
Can one or more tracks be elin Are there other track(s) crossin If yes, Crossing DOT #(if di	ninated thro ng this same fferent)	roadway within 100 ft of this crossing?	Yes XNo	
Can one or more tracks be elin Are there other track(s) crossin If yes, Crossing DOT #(if di If yes, distance	ninated thro ng this same fferent) (take me	roadway within 100 ft of this crossing?	Yes X No est point along roadway)	
Can one or more tracks be elin Are there other track(s) crossin If yes, Crossing DOT #(if dir If yes, distance Roadway Data	ninated thro ng this same fferent) (take me	asurement between track centerlines at close	Yes XNo est point along roadway)	
Can one or more tracks be elin Are there other track(s) crossin If yes, Crossing DOT #(if di If yes, distance Roadway Data Local Highway Authority:	ninated thro ng this same fferent) (take me	ough the crossing? TYes X No roadway within 100 ft of this crossing? T asurement between track centerlines at close City of Norwalk	Yes XNo est point along roadway)	
Can one or more tracks be elin Are there other track(s) crossin If yes, Crossing DOT #(if di If yes, distance	ninated thro ng this same fferent) (take me tics	asurement between track centerlines at close City of Norwalk Initial Information (from database)	Yes XNo est point along roadway) Revised	
Can one or more tracks be elin Are there other track(s) crossin If yes, Crossing DOT #(if dir If yes, distance Roadway Data Local Highway Authority: Roadway Characteris Average daily traffic	ninated thro ng this same fferent) (take me tics	ough the crossing?       Yes       X No         roadway within 100 ft of this crossing?       Yes         asurement between track centerlines at close         City of Norwalk         Initial Information (from database)         5280       (2009)	Yes XNo est point along roadway) Revised 3500 - City	
Can one or more tracks be elin Are there other track(s) crossin If yes, Crossing DOT #(if di If yes, distance Roadway Data: Local Highway Authority: Roadway Characteris Average daily traffic Highway paved	ninated thro ng this same fferent) (take me tics	ough the crossing?       Yes       X No         roadway within 100 ft of this crossing?       Yes         asurement between track centerlines at close         City of Norwalk         Initial Information (from database)         5280       (2009)         X Yes       No	Yes XNo est point along roadway) Revised 3500 - City Yes No	
Can one or more tracks be elin Are there other track(s) crossin If yes, Crossing DOT #(if di If yes, distance	ninated thro ng this same fferent) (take me tics	ough the crossing?       Yes       X No         roadway within 100 ft of this crossing?       ````````````````````````````````````	Yes XNo est point along roadway) Revised 3500 - City Yes No	
Can one or more tracks be elin Are there other track(s) crossin If yes, Crossing DOT #(if di If yes, distance <b>Roadway Data:</b> Local Highway Authority: <b>Roadway Characteris</b> Average daily traffic Highway paved Roadway Surface: S.Blacktop Roadway width: D_ft.	ninated thro ng this same fferent) (take me tics	ough the crossing? Yes   Yes Yes   roadway within 100 ft of this crossing?   asurement between track centerlines at close   City of Norwalk   Initial Information (from database)   5280   (2009)   Yes   No   Concrete	Yes XNo est point along roadway) Revised 3500 - City Yes INo	
Can one or more tracks be elin Are there other track(s) crossin If yes, Crossing DOT #(if di If yes, distance Roadway Data: Local Highway Authority: Roadway Characteris Average daily traffic Highway paved Roadway Surface: X Blacktop Roadway width: D_ft. Number of highway lanes	ninated thro ng this same fferent) (take me tics	Solution   Provide the crossing?   Provide the crossing?	Yes XNo est point along roadway) Revised 3500 - City Yes No	
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Can one or more tracks be elin Are there other track(s) crossin If yes, Crossing DOT #(if di If yes, distance Roadway Data: Local Highway Authority: Roadway Characteris Average daily traffic Highway paved Roadway Surface: ABlacktop Roadway width: D ft. Number of highway lanes Urban or Rural Vehicle Speed: MPH	ninated thro ng this same fferent) (take me tics	Puigh the crossing? Yes X   roadway within 100 ft of this crossing? ````````````````````````````````````	Yes XNo est point along roadway) Revised 3500 - City Yes No	
Can one or more tracks be elin Are there other track(s) crossin If yes, Crossing DOT #(if dir If yes, distance Roadway Data Local Highway Authority: Roadway Characteris Average daily traffic Highway paved Roadway Surface: ABlacktop Roadway Width: C. Number of highway lanes Urban or Rural Vehicle Speed: MPH School Bus Operation: X No	ninated thro ng this same fferent)(take me (take me stics Gravel Gravel Gravel	Puigh the crossing? Yes X   roadway within 100 ft of this crossing? Yes   asurement between track centerlines at close   City of Norwalk   Initial Information (from database)   5280 (2009)   X Yes   No   Concrete   Other	Yes XNo est point along roadway) Revised 3500 - City Yes No	
Can one or more tracks be elin Are there other track(s) crossin If yes, Crossing DOT #(if di- If yes, distance <b>Roadway Data:</b> Local Highway Authority: <b>Roadway Data:</b> Local Highway Authority: <b>Roadway Characteris</b> Average daily traffic Highway paved Roadway Surface: S.Blacktop Roadway Surface: S.Blacktop Roadway width: D_ft. Number of highway lanes Urban or Rural Vehicle Speed: MPH School Bus Operation: X No Hazardous Materials Trucks:	ninated thro ng this same fferent) (take me tics Gravel Yes No	ugh the crossing? Yes X   roadway within 100 ft of this crossing? Yes   asurement between track centerlines at close   City of Norwalk   Initial Information (from database)   5280   5280   (2009)   X   Yes   No   Concrete   Other     2   Rural     Amount	Yes XNo est point along roadway) Revised 3500 - City Yes No	
Can one or more tracks be elin Are there other track(s) crossin If yes, Crossing DOT #(if dir If yes, distance Roadway Data Local Highway Authority: Roadway Characteris Average daily traffic Highway paved Roadway Surface: All Blacktop Roadway Surface: Blacktop Roadway width: C. Number of highway lanes Urban or Rural Vehicle Speed: MPH School Bus Operation: X No Hazardous Materials Trucks: Shoulders: No	ninated thro ng this same fferent)	Provide the crossing? Yes X   No roadway within 100 ft of this crossing? Yes   asurement between track centerlines at close   City of Norwalk   Initial Information (from database)   5280 (2009)   X Yes   No   Concrete Other     2   Rural   X   Yes   Amount   X   Yes	Yes XNo est point along roadway) Revised 3500 - City Yes No	
Can one or more tracks be elin Are there other track(s) crossin If yes, Crossing DOT #(if di- If yes, distance <b>Roadway Data:</b> Local Highway Authority: <b>Roadway Characteris</b> Average daily traffic Highway paved Roadway Surface: S.Blacktop Roadway width: Ft. Number of highway lanes Urban or Rural Vehicle Speed: MPH School Bus Operation: X No Hazardous Materials Trucks: Shoulders: No	ninated thro ng this same fferent)	Pugh the crossing? Yes   Initial Information (from database)   5280   Concrete   Other     2   Rural     Amount   Xes	Yes XNo est point along roadway) Revised 3500 - City Yes No	
Can one or more tracks be elin Are there other track(s) crossin If yes, Crossing DOT #(if dir If yes, distance Roadway Data Local Highway Authority: Roadway Characteris Average daily traffic Highway paved Roadway Surface: All Blacktop Roadway Surface: Blacktop Roadway width: Control ft. Number of highway lanes Urban or Rural Vehicle Speed: MPH School Bus Operation: X No Hazardous Materials Trucks: Shoulders: No Is the shoulder surfaced? No	ninated thro ng this same fferent)	Pugh the crossing? Yes   Initial Information (from database)   5280   5280   Concrete   Other     2   Rural     2   Rural     Yes   crossing vicinity?   No     Yes	Yes XNo est point along roadway) Revised 3500 - City Yes No	

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Quadrant SE Curb and Gutter:	Quadrant <u>NW</u> Curb and Gutter:
Functional (Curb height = 4" or more)	K Functional (Curb height = 4" or more)
Non-functional (Curb height = Less than 4")	Non-functional (Curb height = Less than 4")
☐ None	None
Pedestrians: 🔲 No 🖉 Yes	· · · · · · · · · · · · · · · · · · ·
Is sidewalk present? No XYes Both S	ides actside Signals
Is there a nearby intersection that could cause queuing over the cr	rossing? 🔣 No 📋 Yes
If yes, Distance	
is this intersection signalized? 🔀 No 🛛 🗌 Yes	
Are the signals currently interconnected with the existing crossi	ng warning devices? 💢 No 🛛 Yes
Is there a 'Do not Stop on Track' sign? 🗶 No 🗌 Yes	
Is a roadway improvement project (e.g. widening, turn lanes, neart location in the foreseeable future? X No Yes	by new or upgraded traffic signal, sidewalk) planned at or near this
Improvement type Lead Agency	Timeline/completion
Is it the consensus of the Diagnostic Review Team that this is a po Explain reasons:	tential closure project: 🕅 No 🗌 Yes
Type of Development	
Open Space Institutional Location of nearby	za na zakona zakona / schools:
Industrial	
🖉 Residential	
Utility Information	
	and a second
Is commercial power available? 🔲 No 🛛 📈 Yes	
Utility Provider (Company Name)	Phone Number
Nearest Available Power Source	
What other utilities are present?       Gas       Cable         (add locations to sketch)       Petroleum       Water         Other	Telephone 🗍 Fiber Optic Cable
Is(are) there potential utility conflict(s) [] Yes [] No [] Comments:	Q Unknowπ
Overhead telephone / 70 co	able lines need raised.

Potential Red Flags / Project Challenges Traffic Signal Preemption (include traffic signal intersection name and LHA with jurisdiction over traffic signal, if known):		
Crossing Consolidation or Closure:		
Keal Estate of KOVV:		
Culverts / Drainage / Ballast Conditions:		
Roadway and/or Sidewalks:		
Sidewalks adzide Sinds.		
Circuitry (e.g. reaches out to other crossings, specific needs, etc.):		
Environmental:		
Other:		
ANHL 11-12-13		

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Diagnostic Team Recommendations			
	Quadrants Needed		
X Install/upgrade active devices			
Automatic Flashing Lights (AFLS)			
AFLS / Gates	NI	N	
🔀 AFLS / Gates / Cants			
🗹 Bells / number	TI	NO	
Upgrade circuitry / type			
🔁 Sidelights	] نان	3 /	1 No Left Turn Fleshers
Guardrail Needed		•	
Install/Replace curb			
Bungalow placement & offset from rail & highway			
Other (define)			
Comments: Design PE w/ all new flood with the address of	hing Signer	als as 7 Sate	in the field
Install/upgrade traffic signal preemption			
No improvements needed			
Other (define)			
Acknowledgement of Recommendations (each entity represented	at the diagnostic	must have at	least one signature
Dan Remail Kellhote		Boa	Patuck

# UPDATED (04/2013)



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http://www.ohiorail.ohio.gov/sites\$/hur/hur027/hur027s.png

11/13/2013

#### TABLE I

# Clearing Sight Distances

Maximum Authorized Train Speed	Distance (dT) Along Railroad from Crossing (ft)		
1 - 10	240		
15	360		
20	480		
25	600		
30	720		
35	840		
(40)	960		
45	1080		
50	1200		
55	1320		
60	1440		
65	1560		
70	1680		
75	1800		
80	1920		
85	2040		
90	2160		

Source: R-H Grade Crossing Handbook Table 36 (pp. 132-133)

Notes:

All calculated distances are rounded up to the next higher 5foot increment.

Distances indicated are for 65-ft double bottom semi-tractor trailers and level single track 90 degree crossings; and may need to be adjusted for multiple tracks, skewed crossings or approaches on grades.

Clearing Sight Distance is to be measured in each vehicle travel direction at <u>non-gated crossings</u> as viewed from a point 25 feet from centerline of nearest track in the center of whichever travel lane is nearest the direction along track being measured.

#### Table 2

**Stopping Sight Distances** 

Highway Vehicle Speed	Distance (dH) Along Roadway from Crossing (ft)			
0	n/a			
5	50			
10	70			
15	105			
20	135			
25	180			
30	225			
35	280			
40	340			
45	410			
50	490			
55	570			
60	660			
65	760			
70	865			

Source: R-H Grade Crossing Handbook Table 36 (pp. 132-133)

Notes:

All calculated distances are rounded up to the next higher 5foot increment.

Distances indicated are for 65-ft double bottom semi-tractor trailers on dry level pavements.

Stopping Sight Distance is to be measured on each roadway approach to crossing from stop bar.

Jul 2-13



May 12, 2014

Mr. Tim Andrews Wheeling & Lake Erie Railway 100 East First Street Brewster, Ohio 44613

RE: Huron County, Woodlawn Avenue DOT 473634C, PID# 97284

Dear Mr. Andrews:

The plan and estimate dated April 28, 2014, for the referenced project has been reviewed and is acceptable. WLE may proceed with the construction of the proposed grade crossing warning system in accordance with the abbreviated plan. This authorization is made with the stipulation and understanding that the approved estimate may contain entries for items or activities that may be cited and found to be ineligible for federal participation during the project audit. Reimbursement of eligible actual cost is limited to \$279,719.73. Additional costs must be approved in writing by the Ohio Rail Development Commission (ORDC) prior to being incurred. Emergency verbal authorizations by ORDC may be permitted and will be confirmed by ORDC in writing within ten (10) business days of the verbal approval.

This authorization is contingent upon WLE accepting the following instructions:

- WLE's project foreman will furnish written notification five (5) working days prior to the date work will start at the project site to Joseph Reinhardt, ORDC, email <u>joe.reinhardt@dot.state.oh.us</u> and to the Public Utilities Commission of Ohio at <u>George.martin@puc.state.oh.us</u>. WLE's project foreman will also notify the same of any stops and re-starts of the work activity and of the date work was completed for the project.
- 2. WLE will arrange for utilities to be located at the project site by the Ohio Utilities Protection Service (OUPS) prior to any construction activities at the site. Utilities that are not participating members of the service must be contacted directly by WLE.
- 3. WLE's project foremen will notify Joe Reinhardt at joe.reinhardt@dot.state.oh.us (email) of any changes in the scope of work, cost overruns, material changes, etc. which are not included in the approved plan and estimate and secure approval of same before the work is performed.
- 4. WLE will furnish two (2) copies of each partial bill to ORDC. Please find the enclosed Encumbrance Estimate to reference when billing.

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5. WLE will furnish two (2) copies of the final all-inclusive bill to ORDC stating the exact dates of starting and completing work, the initial and final dates of construction and location where the accounts may be audited.

Thank you for your assistance with these matters.

Sincerely, hudt bsoh. /Joseph Reinhardt

Project Manager

C: George Martin, PUCO, Grade Crossing Planner ORDC (file)



May 12, 2014

Mr. Tim Andrews Wheeling & Lake Erie Railway 100 East First Street Brewster, Ohio 44613

RE: Richland County, Riggs Avenue DOT 001973E, PID# 97295

Dear Mr. Andrews:

The plan and estimate dated April 21, 2014, for the referenced project has been reviewed and is acceptable. WLE may proceed with the construction of the proposed grade crossing warning system in accordance with the abbreviated plan. This authorization is made with the stipulation and understanding that the approved estimate may contain entries for items or activities that may be cited and found to be ineligible for federal participation during the project audit. Reimbursement of eligible actual cost is limited to \$247,955.00. Additional costs must be approved in writing by the Ohio Rail Development Commission (ORDC) prior to being incurred. Emergency verbal authorizations by ORDC may be permitted and will be confirmed by ORDC in writing within ten (10) business days of the verbal approval.

This authorization is contingent upon WLE accepting the following instructions:

- WLE's project foreman will furnish written notification five (5) working days prior to the date work will start at the project site to Joseph Reinhardt, ORDC, email joe.reinhardt@dot.state.oh.us and to the Public Utilities Commission of Ohio at <u>George.martin@puc.state.oh.us</u>. WLE's project foreman will also notify the same of any stops and re-starts of the work activity and of the date work was completed for the project.
- 2. WLE will arrange for utilities to be located at the project site by the Ohio Utilities Protection Service (OUPS) prior to any construction activities at the site. Utilities that are not participating members of the service must be contacted directly by WLE.
- 3. WLE's project foremen will notify Joe Reinhardt at joe.reinhardt@dot.state.oh.us (email) of any changes in the scope of work, cost overruns, material changes, etc. which are not included in the approved plan and estimate and secure approval of same before the work is performed.
- 4. WLE will furnish two (2) copies of each partial bill to ORDC. Please find the enclosed Encumbrance Estimate to reference when billing.

5. WLE will furnish two (2) copies of the final all-inclusive bill to ORDC stating the exact dates of starting and completing work, the initial and final dates of construction and location where the accounts may be audited.

Thank you for your assistance with these matters.

Sincerely, soch Bertac

oseph Reinhardt Project Manager

C: George Martin, PUCO, Grade Crossing Planner ORDC (file)