ED-DOCKETING DIV EP -6 PH 1:56

Memo

To: Docketing Division

From: George Martin, Grade Crossing Planner, Rail Division

Re: In the matter of the authorization of the Columbus & Ohio River Railroad to install active grade crossing warning devices in Guernsey and Licking Counties

Date: September 6, 2012

The Ohio Rail Development Commission (ORDC) has authorized funding for the Columbus & Ohio River Railroad (CUOH) to install mast-mounted flashing lights and roadway gates at the following crossings:

Guernsey County, City of Cambridge, Phillips Rd, DOT# 151709J

Licking County, Madison Township, Staddens Bridge Rd/CR 315, DOT# 151784V

Licking County, City of Heath, Keller Dr, DOT# 151800C

Licking County, City of Pataskala, Connors Rd, DOT# 151817F

The crossings were surveyed between November 14, 2011, and March 16, 2012, and were found to warrant the upgrades.

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 an Entry 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. 12- 2 466 -RR-FED In the matter of the authorization of the Columbus & Ohio River Railroad to install an active grade crossing warning devices in Guernsey and Licking Counties

Please serve the following parties of record

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This is to certify that the images appearing are an accurate and complete reproduction of a case file document delivered in the regular course of bus; Date Processed **Technician**

Ms Susan Kirkland Ohio Rail Development Commission 1980 West Broad St, 2nd Floor Columbus, Oh 43223

Mr Chris Layman

Ohio Central System

47849 Papermill Rd

Coshocton, Oh 43812

AEP

1 Riverside Plaza Columbus, Oh 43215

Mr B J King, Public Services Department 621 W Broad St Pataskala, Oh 43062

Mr Tom Lanning,

Street Department

1700 Burgess

Cambridge, Oh 43725

Mr William Lozier

Licking County Engineer

20 S Second St

Newark, Oh 43055

Mr John Groff

Building & Zoning

1287 Hebron Rd

Heath, Oh 43056

то:	Rob Marvin, Director of Transportation, PUCO Leah Thomas-Dalton, Deputy Chief, PUCO
FROM:	Susan Kirkland, Manager, Safety Section, ORDC
BY:	Tod Darfus, Project Manager, ORDC
SUBJECT:	Guernsey County, C&ORR Phillips Road, 151 709 J, PID 93328
DATE:	September 5, 2012

The Public Utilities Commission of Ohio (PUCO) established a diagnostic survey at the subject location on April 16, 2012. The Ohio Rail Development Commission (ORDC) attended the review. The Diagnostic Team recommended the improvement of warning devices to flashing lights and roadway gates. A copy of the diagnostic review form is 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

TO:	Rob Marvin, Director of Transportation, PUCO Leah Thomas-Dalton, Deputy Chief, PUCO
FROM:	Susan Kirkland, Manager, Safety Section, ORDC
BY:	Tod Darfus, Project Manager, ORDC
SUBJECT:	Licking County, C&ORR Staddens Bridge Road, 151 784 V, PID 92761
DATE:	September 5, 2012

The Public Utilities Commission of Ohio (PUCO) established a diagnostic survey at the subject location on November 14, 2011. The Ohio Rail Development Commission (ORDC) attended the review. The Diagnostic Team recommended the improvement of warning devices to flashing lights and roadway gates. A copy of the diagnostic review form is attached.

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- any ancillary work to make warning devices function as designed and visible to the roadway user, and
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Thank you for your assistance with these matters.

Attachment: Diagnostic Review Plan & Estimate

TO:	Rob Marvin, Director of Transportation, PUCO Leah Thomas-Dalton, Deputy Chief, PUCO
FROM:	Susan Kirkland, Manager, Safety Section, ORDC
BY:	Tod Darfus, Project Manager, ORDC
SUBJECT:	Licking County, C&ORR Keller Drive, 151 800 C, PID 92768
DATE:	September 5, 2012

The Public Utilities Commission of Ohio (PUCO) established a diagnostic survey at the subject location on December 9, 2011. The Ohio Rail Development Commission (ORDC) attended the review. The Diagnostic Team recommended the improvement of warning devices to flashing lights and roadway gates. A copy of the diagnostic review form is 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

ТО:	Rob Marvin, Director of Transportation, PUCO Leah Thomas-Dalton, Deputy Chief, PUCO
FROM:	Susan Kirkland, Manager, Safety Section, ORDC
BY:	Tod Darfus, Project Manager, ORDC
SUBJECT:	Licking County, C&ORR Connors Road, 151 817 F, PID 92758
DATE:	September 5, 2012

The Public Utilities Commission of Ohio (PUCO) established a diagnostic survey at the subject location on December 9, 2011. The Ohio Rail Development Commission (ORDC) attended the review. The Diagnostic Team recommended the improvement of warning devices to flashing lights and roadway gates. A copy of the diagnostic review form is 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



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Diagnostic	: Review	Team	Survey
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			Date: 3/	6/2012
Location Data				
Street or Road Name: Phillips Road				
Route/Road Number (i.e. Twp., Co., SR or US)		US DOT No.:	[5]709]	
County: Guernsey (GUE) Township:		City: (In or Near)	Cambridge	
Railroad Name: Columbus & Ohio River	Railroad OH			Branch/Line Name: Chat S-5
Nearest RR Timerable Station: Cambridge			RR Milepost	53.18
On-Site Review Team				
(Include: Name - Organization - Phone Numbe	r – Email)			
1. Tod Darfus - ORDC - 614.374.9298	- tod.darfus@dot.state.of	<u>Lus</u>	TOOL	Jasher
2. GEORGE MARTIN PU	CO 614-752-	9107		<u> </u>
3. Tow Housley oc	RR. 740-502-	7214		
4. Tom Lanning Cambridge	Street Dept. 740-	432-7748		
5				
6				
7				
8				
		· · · · · · · · · · · · · · · · · · ·		
9		· · · · · · · · · · · · · · · · · · ·		
9	.5			
9 Existing Traffic Control Devices	25	ad?		Quantity/Comments
9. Existing Traffic Control Device Type of Warning Devices Advance Warning Signs (condition?)	25	ed? □ No		Quantity/Comments
9 Existing Traffic Control Device Type of Warning Devices Advance Warning Signs (condition?) (Stop' Signs	es Installe Yes	ed?		Quantity/Comments アクライ
9	25 Installe Yes Yes	ed?		Quantity/Comments
9. Existing Traffic Control Device Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?)	SING Installe Yes Yes Yes Yes	ed?		Quantity/Comments
9	25 Installe Yes Yes Yes Yes Yes	edi No No No No No	1	Quantity/Comments
9	SING Installe Yes Yes Yes Yes Yes Yes Yes	ed? No No No No No No	2	Quantity/Comments DODT MENY
9	SING Installe Yes Yes Yes Yes Yes Yes Yes Yes	ed? No No No No No No No No No	1	Quantity/Comments POD NEVY NEVY
 9	PS	edi No No No No No No No No	2	Quantity/Comments PODr NEW NEW
9	SING STATES	ed? No No No No No No No No No No	2	Quantity/Comments DODT NEW NEW
 9	SING STATES		Z Number:	Quantity/Comments POD NEVY NEVY Length:
9. Existing Traffic Control Device Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs Inventory Tags Interconnected Highway Traffic Signal Mast-Mounted Flashing Lights Cantilever Flashing Lights Side Lights	S Installe Yes	edi No No No No No No No No No No No No No	Z Number:	Quantity/Comments PODr NEVY NEW Length:
9	SING STATES	cd? No No No No No No No No No No	Z Number:	Quantity/Comments Quantity/Comments DODC NEVY NEW Length: I Length:
9	SING STREET STRE	No	Z Number: Number: Number:	Quantity/Comments DOD r NEW NEW Length: Length:
9	Installe Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye	edi No No No No No No No No No No No No No	Number: Number:	Quantity/Comments PODF NEVY Length: I Length:
9	Similar State of the second state of the se	No	Z Number: Number:	Quantity/Comments PODC NEVY Length:
9	SING STREET STR	No No	Number: Number:	Quantity/Comments DOD r NEW Length:
9	Installe Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye	edi No No No No No No No No No No No No No	Number: Number:	Quantity/Comments PODr NEVY Length: I

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Safety Data (Obtain cr	ash repo	rts, if possible, prior to review)		
	Ini	Revised		
Number & dates of crashes in previous 5 years	3 (8/24/2007, 9/11/2007, 6/1/2011)			
Hazard Ranking 9 Date Run: 3/7/2012				
Railroad Data				
Railroad Characteris	tics	Initial Information (from database)	Revised	
Total trains per day		1	2 togin MWF	
< 1 per day				
Day thru trains	·····	1	Day Trains	
Night thru trains		0	· · · · · · · · · · · · · · · · · · ·	
Daytime switching moveme	nts	0		
Nighttime switching moven	nents	0		
Total number of tracks		I FORMTEXT	/	
Number of main tracks		1		
Number of other tracks		0		
Maximum train speed		25	25	
Typical train speed			25	
Amtrak			No	
If non-gated crossing, is clearin	g sight distar	ce adequate in all quadrants? (See Table 1)	🖉 Yes 🔲 No	
If multiple tracks, can two train		ossing at the same time? TYes		
Can one train block the motor	ists' view of	another train at crossing? TYes (Explain be		
Can one or more tracks be eli	minated thro	ough the crossing? Yes No		
Are there other track(s) cross	ng this same	roadway within 100 ft of this crossing? 🔲 `	Yes No	
If yes, Crossing DOT #(if d If yes, distance	ifferent) (take me	asurement between track centerlines at close	st point along roadway)	
Roadway Data				
Local Highway Authority:	ende Menellen et d'alle	City of Cambridge		
Roadway Characteri	itics	Initial Information (from database)	Revised	
Average daily traffic		1468 (2009)	. 1468	
Highway paved		Yes No	Yes No	
Roadway Surface: Blacktop Gravei Concrete Other				
Roadway width:ft.				
Number of highway lanes		2	2	
Urban or Rurai		Rural	Rural	
Vehicle Speed: 5 MPH				
School Bus Operation: No ZYes 4 Amount Tabal a day				
Hazardous Materials Trucks: No Yes <u>I</u> Amount				
Shoulders: No Tes				
Is the shoulder surfaced? INO Ses				
Is there existing guardrail along roadway in crossing vicinity? 🔄 No 📋 Yes				
Is stopping site distance adequate? (See Table 2) 🖉 Yes 🗌 No If no, deficient approach(es)				

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Quadrant Curb and Gutter:	Quadrant Curb and Gutter:
☐ 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
Pedestrians: TNo Yes	
Is sidewalk present?	
Is there a nearby intersection that could cause queuing over the c	rossing? 🔲 No 🛛 🔤 Yes
If yes, Distance <u>16</u>	
ls this intersection signalized? No	4
Are the signals currently interconnected with the existing crossi	ing 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, near location in the foreseeable future? No Yes	by new or upgraded traffic signal, sidewalk) planned at or near this
If yes,	Timeline/completion
Is it the consensus of the Diagnostic Review Team that this is a po	otential closure project: 🖾 No 🛛 🗌 Yes
Type of Development	
Open Space Institutional Location of nearby	yschools: (ity Schools
Residential	TEIM LMIP
Utility Information	
ls commercial power available? 🔲 No 🛛 🖉 Yes	· · · · · · · · · · · · · · · · · · ·
Utility Provider (Company Name)	Phone Number
Nearest Available Power Source () (1055/179	
What other utilities are proceed Water Gas	Spinster
(add locations to sketch)	
le(are) there potential utility conflict(s)	7 Linknown
Comments.	
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Potential Red Flags / Project Challenges Traffic Signal Preemption (include traffic signal intersection name and LHA with jurisdiction over traffic signal, if known): NONE Crossing Consolidation or Closure: Real Estate or ROW RR= 45' South 60' North (1; 1)Culverts / Drainage / Ballast Conditions: N/A Roadway and/or Sidewalks Circuitry (e.g. reaches out to other crossings, specific needs, etc.): Environmental N/A Company Palled Go Frac is expanding Tail Spur to hold GO Rars Other:

Diagnostic Team Recommendations	
	Quadrants Needed
Install/upgrade active devices	
Automatic Flashing Lights (AFLS)	
AFLS /Cants	
AFLS / Gates	
AFLS / Gates / Cants	
Bells / number	
Upgrade circuitry / type	
Sidelights	
Guardrail Needed	
Install/Replace curb	
Bungalow placement & offset from rail & highway	25/50 SE Quad
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
acknowledgement): 100 Darking Alley ME Jond Long Jonn, Lanne	myly Can Mat





TABLE I

Clearing Sight Distances

0.0	
Maximum Authorized Train Speed	Distance (dT) Along Railroad from Crossing (ft)
1 - 10	240
15	360
28	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 5-foot 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.



A)

Ohio Rail Development Commission 1980 W. Broad Street, 2nd Floor Columbus, OH 43223

Diagnostic Review Team Survey

			Date: 11 / 14	1/11
Location Data				
Street or Road Name: Stoddars R	inidae Bd			
Route/Road Number (i.e. Two Co.) SR or US) (include SLM	if State or US route)	15	AAR-DOT No .: 15	1794
County: 14K:00 Township;	NERA A	City: (In or Near)	Neunck	
Railroad	Railroad 1	in uille	Branch	TLine
Name: COLUM DUS & Chio KIVET	Division:	SUILE	RR Mileposr:	-
Timetable Station: Weight		an a		XX) ,
On-Site Review Team				
(Include: Name - Organization - Phone Number -	- Email)			
1 Too Doctor	NRDQ	614-3-	14 -929A	
2 SUGAN ADDILINI	DADC	1014-10	44-0217	
IFTE MASTO	DUCD	10/11-2	915417	····•
3	FUCU	014-3.	1 5 1 1 6	· · · · · · · · ·
4. DAN BIRRELL	OHER	740 z	954122	<u> </u>
5. EPic HAHN	OHER	740 502	4998	
6. GEORGE MARTIN	PUCO	614-752	-9107	
7 DAIE Halton	WhendetpEan	740-249	- 4 8 9 4	
2 Telle Colorent	la det		- 89.	
8. JACKIE Carghenbrugh	Wird STRAM	140-31	- 500C	
9. <u>/ 7 30</u>	hle	740-67	0-5289	
Existing Traffic Control Devices				
Type of Warning Devices	Install	od?	Quan	tity/Comments
Advance Warning Signs (condition?)			2 5000	
'Stop' Signs		 []∕No		· · · · · · · · · · · · · · · · · · ·
'Stop Ahead' Signs	Yes	N₀	-	
Pavement Markings (condition?)	Tes	N₀	Fair to	> Poor
Crossbucks	∐ Yes	□ No	2	
Number of Tracks Signs	[] Yes	₽No		
Inventory Tags	⊿ Yes	□ No	2	
Interconnected Highway Traffic Signal	🗌 Yes	₽No		
Mast-Mounted Flashing Lights	Yes	⊿ N₀		
Cantilever Flashing Lights	Yes 🗌	∐ N₀	Number:	Length:
Side Lights	Yes	No		
Automatic Gates	🗌 Yes	⊘ N₀	Number:	Length:
Bells	Yes	₽No	Number:	
Sidewalk Gate Arms	Yes	No No		
'No Turn' Signs	Yes	₽No		
Illumination	⊿ Yes	<u>No</u>	O Cros	sing.
Is crossing flagged by train crew?	Yes	∕No		
Other		1 No		·····

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Safety Data (Obtain crash re	ports, if possible, prior to review)			
	Initial Information (from database)	Revised		
Number & dates of crashes in previous 5 years	\mathcal{O}	0		
Hazard Ranking	718 Date Run:	778 10/27/11		
Railroad Data				
Railroad Characteristics	Initial Information (from database)	Revised		
Total trains per day	3	1 Jer 5 day		
< I per day		2 movements per dow		
Day thru trains	3			
Night thru trains	0			
Daytime switching movements	6			
Nighttime switching movements	0			
Total number of tracks	1			
Number of main tracks				
Number of other tracks	0			
Maximum train speed	· · · · · · · · · · · · · · · · · · ·	25		
Typical train speed		10 Mph		
Amtrak	No	NG		
If multiple tracks, can two trains occupy Can one train block the motorists' view	crossing at the same time? Yes No	elow) ZNO		
Can one or more tracks be eliminated through the crossing?				
Are there other track(s) crossing this same roadway within 100 ft of this crossing? [] Yes [] No If yes, Crossing DOT #(if different)				
If yes, distance (take	measurement between track centerlines at close	st point along roadway)		
Roadway Data				
Local Highway Authority:				
Roadway Characteristics	Initial Information (from database)	Revised		
Average daily traffic	1706 (2005)	1627		
Highway paved		I Yes □ No		
Roadway Surface: 🛛 Blacktop 📋 Gravel 📋 Concrete 🛄 Other				
Roadway width: <u>20</u> ft		20'		
Number of highway lanes	2			
Urban or Rural	Rural Local			
Vehicle Speed: 55 MPH				
School Bus Operation:	Vies /1 Amount Via tal 5 11	<i>ch</i>		
Hazardous Materials Trucks: 🔲 No	Yes <u>2</u> Amount			
Shoulders: No Yes				
Is the shoulder surfaced? 📝 No	🗌 Yes			
Is there existing guardrail along roadway	in crossing vicinity? 🖉 No 📋 Yes	- 1		
Is stopping site distance adequate? (See	Table 2) 🖉 Yes 🔲 No 🛛 If no, deficient a	upproach(es) <u>JK Jay 5</u> p 5		

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Quadrant Curb and Gutter:	Quadrant Curb and Gutter:
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
Pedestrians: ANO Yes	
Is sidewalk present? Tho Yes	
Is there a nearby intersection that could cause queuing over the cr	rossing? No Yes
If yes, Distance	
Is this intersection signalized? No	
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, near location in the foreseeable future? No Yes	by new or upgraded traffic signal, sidewalk) planned at or near this
in yes, 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
	schools.
	King 1611. Curlo
	KIG VALLEV SMIS
Is commercial power available? 🛄 No 🛛 🖉 Yes	
Utility Provider (Company Name)	Phone Number
Nearest Available Power Source 0 Grossins	
What other utilities are present? Wind Stream	
(add locations to sketch)	
Is(are) there potential utility conflict(s) Yes No	Unknown
Comments:	_

Potential Red Flags / Project Challenges Traffic Signal Preemption (include traffic signal intersection name and LHA with jurisdiction over traffic signal, if known): NOT/ APP Crossing Consolidation or Closure: NOT / APP Real Estate or ROW: County ROWS (0) CEORRE ROW - 100' 50 Pach Culverts / Drainage / Ballast Conditions: <u>NO ISSUE</u> Roadway and/or Sidewalks: NO ISSUE Circuitry (e.g. reaches out to other crossings, specific needs, etc.): Environmental: NOT / APD Bungalow to be placed in Nonth West Quad Other:

Diagnostic Team Recommendations Quadrants Needed Install/upgrade active devices Automatic Flashing Lights (AFLS) AFLS /Cants AFLS / Gates AFLS / Gates / Cants Bells / number 1 Upgrade circuitry / type Sidelights Guardrail Needed Install/Replace curb Bungalow placement & offset from rail & highway Other (define) Comments: Bungalown in NW Quad 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 acknowledgement);



TABLE |

Clearing Sight Distances

Maximum Authorized Train Speed	Distance (dT) Along Railroad from Crossing (ft)
(1-to)	(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 5-foot 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
(\$5)	570
60	660
65	760
70	865

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

0.03.

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.



Ohio Rail Development Commission 1980 W. Broad Street, 2nd Floor Columbus, OH 43223

Diagnostic Review Tea	m Survey
_	Date: 12/9/2011
Location Data	
Street or Road Name: Keller Koad Drive	
Route/Road Number (i.e. Twp., Co., SR or US)	US DOT No.: 151800C
County: Licking (LIC) Township: No Twy (In or N	lear) Heath
Railroad Name: Columbus & Ohio River Railroad Railroad Division: Loansville Sou	Horn Branch/Line ON Sub
Nearest RR Timetable Station: Heath	RR Milepost: 108.06
On-Site Review Team	
(Include: Name - Organization - Phone Number - Email)	
1. Tod Darfus - ORDC - 614.374.9298 - tod.darfus@dot.state.oh.us	
2. DAN BIRRELL 740 -2954122 DRIRREL	(Obwer, com
3. GEORGE MARTIN PUCO 614-752-9107	GURGE, MARTIN PRC. STATE. OH. US
4. JOHN GROFF HEATH 740-522-1420	J9roff@heathch10,900
5. FODIE HUNT - HEATH - (740) - 522-1420 x 210 -	ehunte heathohio.gov
6. JOHN VERMAATEN-H. N.L.C. P.A - (140)288-5500, 222 -	ivermaaten@halcon.com
7. Scoff Haines Jobes Henderson + Assoc (740) S44-5451 - Shaines @ Jobeshenderson
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9	

Type of Warning Devices	Insta	lled?	Quant	ity/Comments
Advance Warning Signs (condition?)	Yes	[]No	NONE	-7
'Stop' Signs	Yes			0
'Stop Ahead' Signs	🗌 Yes	N₀		
Pavement Markings (condition?)	∠ Yes	□ No	2 good	
Crossbucks	⊿ Ƴes	N₀		
Number of Tracks Signs	🗌 Yes			
Inventory Tags	⊿ Ƴes	N₀	Poor	
Interconnected Highway Traffic Signal	🗌 Yes			
Mast-Mounted Flashing Lights	les .	. No	2	
Cantilever Flashing Lights	Yes	No	Number:	Length:
Side Lights	🗌 Yes	⊿ N₀		
Automatic Gates	Yes	N₀	Number:	Length:
Bells	🗌 Yes	N₀	Number:	
Sidewalk Gate Arms	🗌 Yes			
'No Turn' Signs	🗌 Yes	₽No		
Illumination	Yes	⊿ N₀		
Is crossing flagged by train crew?	Yes	⊿ N₀		
Other	T Yes	ΠNο		

Safety Data (Obtain cr	rash repo	rts, if possible, prior to review)	
	Init	tial Information (from database)	Revised
Number & dates of crashes	0		
Hazard Ranking	380	Date Run: 12/1/2011	
Railroad Data			
Railroad Characteris	stics	Initial Information (from database)	Revised
Total trains per day		18	17.
< 1 per day			· · · ·
Day thru trains		8	
Night thru trains		2	
Daytime switching moveme	ents	6	-2
Nighttime switching moven	nents	2	
Total number of tracks			
Number of main tracks		1	
Number of other tracks		0	
Maximum train speed		40	30
Typical train speed			
Amtrak			<u>N0</u>
If non-gated crossing, is clearin	g sight distan	ce adequate in all quadrants? (See Table 1)	Yes INO geo lourner
If multiple tracks, can two train Can one train block the motor Can one or more tracks be elin Are there other track(s) crossi	ns occupy cro rists' view of minated thro ing this same	ossing at the same time? another train at crossing? Yes (Explain be rugh the crossing? Yes Ye	ilow) ZNo
If multiple tracks, can two train Can one train block the motor Can one or more tracks be elin Are there other track(s) cross If yes, Crossing DOT #(if d If yes, distance	ns occupy cro rists' view of minated thro ing this same lifferent) (take mea	ossing at the same time? Yes Ho another train at crossing? Yes (Explain be rugh the crossing? Yes Yes Yes (Explain be rugh the crossing? To roadway within 100 ft of this crossing? asurement between track centerlines at close	elow) ZNo Yes ZNo st point along roadway)
If multiple tracks, can two train Can one train block the motor Can one or more tracks be elin Are there other track(s) crossi If yes, Crossing DOT #(If d If yes, distance Roadway Data Local Highway Authority:	ns occupy cro rists' view of minated thro ing this same lifferent) (take me	Assing at the same time? Yes Yo another train at crossing? Yes (Explain be ugh the crossing? Yes Yes roadway within 100 ft of this crossing? Yes asurement between track centerlines at close City of Heath	elow) 🗹 No Yes 🗗 No st point along roadway)
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If multiple tracks, can two train Can one train block the motor Can one or more tracks be elin 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	ns occupy cro rists' view of minated thro ing this same lifferent) (take mean stics	Dessing at the same time? Yes Provide another train at crossing? Yes Provide another track centerlines at close City of Heath Initial Information (from database) 3134 (2005)	elow) INO Yes INO st point along roadway) Revised 27.45
If multiple tracks, can two train Can one train block the motor Can one or more tracks be elin Are there other track(s) crossin If yes, Crossing DOT #(if d If yes, distance	ns occupy cro rists' view of minated thro ing this same lifferent) (take mean times stics	Dessing at the same time? Yes Pressing at the same time? Yes Initial Information (from database) 3134 (2005)	elow) No Yes No est point along roadway) Revised 2745 Yes No
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Image: Image	Image:	□_Mone □_Yes is sidewalk present No □ Yes is sidewalk present No □ Yes is there a nearby intersection signalized? No □ Yes is there a "Do not Stop on Track' sign? □ No □ Yes if yes, □ Statis intersection signalized? □ No □ Yes is there a "Do not Stop on Track' sign? □ No □ Yes □ Yes is a cradway improvement project (e.g. widening, turn lanes, nearby new or upgraded traffic signal, sidewalk) planned at location in the foreseeable future? □ No □ Yes if yes, □ Timeline/completion	Non-functional (Curb height = Less than 4")		Non-functiona	l (Curb height = Less than 4")
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Is there a nearby intersection that could cause queuing over the crossing? INO Yes If yes, Distance	Is there a nearby intersection that could cause queuing over the crossing? No Yes If yes, Distance	Is there a nearby intersection that could cause queuing over the crossing? [No] Yes If yes, Distance	Is sidewalk present? 🛛 No 🗌 Yes			
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Comments:	Comments:	Comments:	ls(are) there potential utility conflict(s)	No [Unknown	
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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: NA Real Estate or ROW: Heath = 10 - on South State Culverts / Drainage / Ballast Conditions: Culvert condotiunt Culvert - No Funtial purcelle to track - production problem in is had Roadway and/or Sidewalks: _N/A N/ACircuitry (e.g. reaches out to other crossings, specific needs, etc.): Overlapping Cineviting - Dark Terr Environmental: Ns Other:

	Quadrants Needed
Install/upgrade active devices	
Automatic Flashing Lights (AFLS)	
AFLS /Cants	
AFLS / Gates	
AFLS / Gates / Cants	
Bells / number)
Upgrade circuitry / type	
Sidelights	
Guardrail Needed	
Install/Replace curb	
	1
Bungalow placement & offset from rail & highway	35 8 25 - Sun avad as chil
Other (define) Comments:	35 8 25 · Sun quad as chil
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Include utilities as marked by OUPS and LHA; include ROW boundaries as indicated by railroad and LHA.

Crossing Angle	🗌 0-29°	30-59°	☐ 60-90*

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60-90* Measured in

Sketch by: ____

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 Roadwa 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.



Ohio Rail Development Commissior 1980 W. Broad Street, 2nd Floor Columbus, OH 4322

Diagnostic Review Tear	n Survey
	Date: 12/9/2011
Location Data	
Street or Road Name: Connors Ave SW (Adams Lane)	
Route/Road Number (i.e. Twp., Co., SR or US)	US DOT No.: 151817F
County: Licking (LIC) Township: City: NO/TWP-AII Inc (In or N	ear) Summit Station Patglasty ?
Railroad Name: Columbus & Ohio River Railroad Division: Louisville Sou	their Div Branch/Line CN Jub
Nearest RR Timetable Station: Summit	RR Milepost 121.53
On-Site Review Team	
(Include: Name – Organization – Phone Number – Email)	
1. Tod Darfus - ORDC - 614.374.9298 - tod.darfus@dot.state.oh.us	
2 GEORGE MARTIN PUCO 614-752-9107	GEORGE . MASTIN @ PUC. STATE. OH.U.S
3. DAN BIRRELL OHCR 740 295 412:	2 DEIRAELL@ GWRR.com
4. B3 Kinch CITY of PATASKARA 740-927-0145	biking picis patrickala. Of. US
5. TIM BOLAND City of Patusker 740-5	64-2416 Horan DOLi. Patrol
6	OK-45
7	
8	
9	

Type of Warning Devices	Installed?	Quantity/Comments
Advance Warning Signs (condition?)	Z∕Yes □No	1 fair
'Stop' Signs	Yes P-No	
'Stop Ahead' Signs	Yes No	
Pavement Markings (condition?)	🗌 Yes 🛛 No	· · · · · · · · · · · · · · · · · · ·
Crossbucks	∠ Yes □ No	2
Number of Tracks Signs	🗌 Yes 🛛 🖉 No	
Inventory Tags	Yes No	2
Interconnected Highway Traffic Signal	Yes Ano	
Mast-Mounted Flashing Lights	Yes 🛛 Yoo	
Cantilever Flashing Lights	∏Yes ⊿No	Number: Length:
Side Lights	Yes No	
Automatic Gates	Yes No	Number: Length:
Bells	Yes No	Number:
Sidewalk Gate Arms	Yes No	
'No Turn' Signs	Yes No	
Illumination	🗌 Yes 🖉 No	
Is crossing flagged by train crew?	Yes No	
Other	Yes No	

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Safety Data (Obtain a	cach rono	ets if assetble arise to review)	
		tial Information (from database)	Revised
Number & dates of crashes	0		
in previous 5 years			0
Hazard Ranking	644	Date Run: 12/1/2011	12-9-11
Railroad Data			
Railroad Characteris	stics	Initial Information (from database)	Revised
Total trains per day		10	10
< 1 per day			
Day thru trains		5	5
Night thru trains		5	5
Daytime switching moveme	ents	0	
Nighttime switching moven	nents	0	
Total number of tracks	·····		
Number of main tracks		1	
Number of other tracks		0	1
Maximum train coood		30	
Typical train speed			70
Typical train speed Amtrak If non-gated crossing, is clearin If multiple tracks, can two train Can one train block the motor Can one or more tracks be eli	ng sight distan ns occupy cro rists' view of minated thro	ace adequate in all quadrants? (See Table I) ossing at the same time? another train at crossing? Yes (Explain ough the crossing? Yes	No Yes No No
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□ Non-functional (Curb height = Less than 4") □ Non-functional (Curb height = Less than 4") □ None Pedestrians: □ No □ Yes Is sidewalk present! □ No □ Yes □ No Is sidewalk present! □ No □ Yes □ Yes Is starce	ctional (Curb height = 4" or more)	Functional (Curb height = 4" or more)				
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Is there a nearby intersection that could cause queuing over the crossing? No Yes If yes, Distance	$\frac{15}{100} = \frac{165}{100}$					
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Is there a 'Do not Stop on Track' sign? No Yes Is a roadway improvement project (e.g. widening, turn lanes, nearby new or upgraded traffic signal, sidewalk) planned at o location in the foreseeable future? If yes, Improvement type	signals currently interconnected with the existing	ing crossing warning devices? 🗹 No 🔲 Yes				
Is a roadway improvement project (e.g. widening, turn lanes, nearby new or upgraded traffic signal, sidewalk) planned at o location in the foreseeable future? If yes, Improvement type	a 'Do not Stop on Track' sign? 🛛 No 🛛 🗌] Yes				
Improvement type Lead Agency Timeline/completion Is it the consensus of the Diagnostic Review Team that this is a potential closure project: No Yes Explain reasons: Type of Development Improvement Improvement Open Space Institutional Location of nearby schools: Improvement Industrial Commercial Commercial Improvement Kesidential Utility Information Utility Provider (Company Name) AEP Nearest Available Power Source Ocrossing Glowbig Gas of Ohi What other utilities are present? Fiber Optic Parr to South Side of Tracks Is(are) there potential utility conflict(s) Yes No	vay improvement project (e.g. widening, turn lan n the foreseeable future? 🖉 No 🛛 🏾 Yes	nes, nearby new or upgraded traffic signal, sidewalk) planned at or near thi				
Is it the consensus of the Diagnostic Review Team that this is a potential closure project: No Yes Explain reasons: Type of Development Location of nearby schools: Image: School Schol School School School School School Schoo	ement type Lead A	Agency Timeline/completion				
Utility Information Is commercial power available? No Is commercial power available? No Utility Provider (Company Name) AEP Phone Number Phone Number Nearest Available Power Source O Crossing Glumbite Gas of Ohi What other utilities are present? Fiber Optic Parr to South Side of Tracks (add locations to sketch) Is(are) there potential utility conflict(s) Yes	Space Institutional Location of Commercial Commercial	of nearby schools:				
Is commercial power available? No Phone Number Utility Provider (Company Name) <u>AEP</u> Phone Number Nearest Available Power Source <u>O Crossing</u> <u>Glubic Gas of Ohi</u> What other utilities are present? <u>Fiber Optic Parr to South Side of Tracks</u> (add locations to sketch) Is(are) there potential utility conflict(s) Yes No Unknown	Information					
Is commercial power available? No Pres Utility Provider (Company Name) <u>AEP</u> Phone Number Nearest Available Power Source <u>O Crossing</u> <u>folonbive Gas of Ohi</u> What other utilities are present? <u>Fiber Optic Parr to South Side of Tracks</u> (add locations to sketch) Is(are) there potential utility conflict(s) Yes No Unknown						
Is commercial power available? No Pres Utility Provider (Company Name) <u>AEP</u> Nearest Available Power Source <u>O Crossing</u> <u>folumbile Gas of Ohi</u> What other utilities are present? <u>Fiber Optic parr to South Side of Tracks</u> (add locations to sketch) Is(are) there potential utility conflict(s) Yes No Unknown						
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Nearest Available Power Source <u>O Crossing</u> <u>Country Gas of Ohi</u> What other utilities are present? <u>Fiber Optic parr to South Side of Tracks</u> (add locations to sketch) Is(are) there potential utility conflict(s) Yes No Winknown	ovider (Company Name) <u>AEP</u>	Phone Number				
What other utilities are present? <u>Fiber Optic Parr to South Side of Tracks</u> (add locations to sketch) Is(are) there potential utility conflict(s) Yes No Winknown	Nearest Available Power Source Ocrossing Columbia Cas of Ohi					
Is(are) there potential utility conflict(s) Yes No Unknown	What other utilities are present? Fiber Optic Parr to South Side of Tracks (add locations to sketch)					
	ere potential utility conflict(s) [] Yes []	No HUnknown				
Comments:	ts:					
SW Licking Sewer & Water	5W Licking Sewer & We	aten				

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I raffic Signal Preemption (include traffic signal intersection name and LHA with jurisdiction over traffic signal, if known):
Crossing Consolidation or Closure:
No
Real Estate or ROW:
(ity = 30 RR = 37 1/2 to Swith 25'N
Culverts / Drainage / Ballast Conditions:
No Doubland - Surface mode to the replaced
Roadway and/or Sidewalks:
No Problems
Circuitry (e.g. reaches out to other crossings, specific needs, etc.):
Det Taullar - Dis a varlage of Mink Road
Environmental:
N ZA
Other:

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Diagnostic Team Recommendations	
	Quadrants Needed
Install/upgrade active devices	
Automatic Flashing Lights (AFLS)	
AFLS /Cants	
AFLS / Gates	
AFLS / Gates / Cants	
Bells / number	
Upgrade circuitry / type	
Sidelights	sits OT intersection
Guardrail Needed	
install/Replace curb	
Bungalow placement & offset from rail & highway	25 x 35
Other (define)	
Install/upgrade traffic signal preemption	
No improvements needed	
Other (define)	
Acknowledgement of Recommendations (each entity represented a	at the diagnostic must have at least one signature
acknowledgement):	
- fax j	
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Include utilities as marked by OUPS and LHA; include ROW boundaries as indicated by railroad and LHA.

Crossing Angle 0-29° 30-59°

60-90° Measured in

Quadrant?

Sketch by: ____

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
<u>(30'</u>)	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 5-foot 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 Roadwa from Crossing (ft)
· 0	n/a
5	50
IO · ·	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 5-foot 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.