

Public Utilities Commission of Ohio

RECEIVED-BOCKETING DIV

Memo

To:

Docketing Division

From

George Martin, Grade Crossing Planner, Rail Division

Re:

In the matter of the authorization of CSX Transportation and the Indiana & Ohio Railway to

install active grade crossing warning devices in Butler and Auglaize Counties

Date: April 25, 2014

The Ohio Rail Development Commission (ORDC) has authorized funding for CSX Transportation (CSX) and the Indiana & Ohio Railway (IORY) to install mast-mounted flashing lights and roadway gates at the following locations:

CSX, Butler County, near Middletown, Franklin-Madison Rd/TR 4, DOT# 152434G

IORY, Auglaize County, near Uniopolis, Weimert School Rd/TR 130, DOT# 258639W

The crossings were surveyed on November 8, 2013, and May 17, 2013, respectively, due to their hazard index. Both crossings were found to warrant the upgrade to lights and gates.

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 Finding & Order:

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- **077** + -RR-FED In the matter of the authorization of CSX Transportation and the Indiana & Ohio Railway to install active grade crossing warning devices in Butler and Auglaize Counties

C: Legal Department

Please serve the following parties of record

This is to certify that the images appearing are an accurate and complete reproduction of a case file accusent delivered in the regular course of business.

Technician Amburgan Date Processed 4/25/1/x

Page 1

Ms Cathy Stout

Ohio Rail Development Commission

1980 West Broad St, Mailstop #3140

Columbus, Oh 43223

Ms Amanda DeCesare

CSX Transportation

1717 Dixie Hwy, Ste 400

Ft Wright, KY 41011

Mr John Hilborn

Genesee & Wyoming

Vice-President-Engineering

Ohio Valley Region Railroads

4349 Easton Way, Ste 110

Columbus, Oh 43219

Mr Rob Rose

Franklin Township Trustees

PO Box 364

Franklin, Oh 45005

Mr Chris Saylor

Madison Township Trustees

5610 W Alexandria Rd

Middletown, Oh 45042

Mr David Emerson

Clay Township Trustees

13080 Wrestle Creek Rd

Wapakoneta, Oh 45895

Dayton Power & Light

Duke Energy

OHIO RAIL DEVELOPMENT COMMISSION INTER-OFFICE COMMUNICATION

TO:

George Martin, Rail Division, PUCO

FROM:

Cathy Stout, Manager, Safety Section, ORDC

BY:

Tim Perkins, Project Manager

SUBJECT:

Butler County, TR 4, Franklin-Madison Road-CSX, DOT No. 152 434 G.

Sim Perkine

PID No. 97249

DATE:

April 24, 2014

The Public Utilities Commission of Ohio (PUCO) established a diagnostic survey at the subject location on November 8, 2013. The Ohio Rail Development Commission (ODRC) 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 plan and estimate 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.

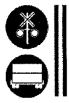
Thank you for your assistance with these matters.

Attachment:

Diagnostic Review

Plan & Estimate





Mail Stop #3140, 1980 West Broad Street, Columbus OH 43223 John R. Kasich, Governor • James G. Bradley, Chairman

April 24, 2014

Amanda DeCesare CSX Transportation Public Projects Manager 1717 Dixie Highway, Suite 400 Ft. Wright, KY 41011

RE: Butler County, T.R. 4, Franklin-Madison Road, DOT No. 152 434 G, PID No. 97249,

OH0979

Dear Ms. DeCesare:

The CSX Transportation (CSX) plan and estimate dated September 19, 2014, in the amount of \$279,201.00 for the referenced project has been reviewed and is acceptable. CSX 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 \$279,201.00. Additional costs must be approved in writing by the 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 CSX accepting the following instructions:

- 1. CSX will furnish prior written notification of their scheduled date to start construction to George Martin, PUCO, Railroad Division.
- 2. CSX's project foreman will furnish FAX or written notification five (5) working days prior to the date work will start at the project site to Tim Perkins, Ohio Rail Development Commission (ORDC), 1980 West Broad Street, Columbus, Ohio 43223, email Tim.Perkins@dot.state.oh.us or FAX (614) 728-4520, (telephone number 614-644-0284), and to the Public Utilities Commission of Ohio at 180 East Broad Street, Columbus, Ohio 43215, email George.martin@puc.state.oh.us, (telephone number 614-752-9107). CSX'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.
- 3. CSX 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 CSX.



www.rail.ohio.gov phone: 614.644.0306

- 4. CSX's project foremen will notify Tim Perkins 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.
- 5. CSX will furnish two (2) copies of each partial bill to ORDC. Please find the enclosed Encumbrance Estimate to reference when billing.
- 6. CSX 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.
- 7. This installation will include any ancillary work to make the warning devices function as designed and meet MUTCD.

Thank you for your assistance with these matters.

Sincerely,

Tim Perkins

Project Manager

Sim Perkine

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

OHIO RAIL DEVELOPMENT COMMISSION INTER-OFFICE COMMUNICATION

TO:

George Martin, Rail Division, PUCO

FROM:

Cathy Stout, Manager, Safety Section, ORDC

BY:

Tim Perkins, Project Manager

SUBJECT:

AUG-T.R. 130, Weimert School Road, I&O, DOT No. 258 639 W, PID No.

Sim Perkine

96177

DATE:

April 24, 2014

The Public Utilities Commission of Ohio (PUCO) established a diagnostic survey at the subject location on May 17, 2013. The Ohio Rail Development Commission (ODRC) 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 plan and estimate 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

OHIO RAIL DEVELOPMENT COMMISSION

1980 West Broad Street, Columbus OH 43233
John R. Kasich, Governor • Mark Policinski, ORDC Chairman

April 24, 2014

John Hilborn, P.E. Genesee & Wyoming Vice President – Engineering Ohio Valley Region Railroads 4349 Easton Way, Suite 110 Columbus, Ohio 43219

RE: AUG-T.R. 130, Weimert School Road-I&O, DOT No. 258 639 W, PID No. 96177, RR Mile Post: 146.28,

Dear Mr. Hilborn:

The Bid process for the referenced project has been reviewed and is acceptable. Indiana and Ohio (I&O) 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 \$143,945.00 and is broken down as \$109,645.00 for Railroad Signal Services, \$34,300.00 Xorail. This estimate from Xorail is broken down as PE phase 1 \$13,400.00, Phase 2 \$5,000.00, Phase 3 \$9,900.00, CE \$6,000.00, and actual cost for AC service. Additional costs must be approved in writing by the 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 I&O accepting the following instructions:

- 1. I&O's project foreman will furnish FAX or written notification five (5) working days prior to the date work will start at the project site to Tim Perkins, Ohio Rail Development Commission (ORDC), 1980 West Broad Street, Columbus, Ohio 43223, email Tim.Perkins@dot.state.oh.us or FAX (614) 728-4520, (telephone number 614-644-0284), and to the Public Utilities Commission of Ohio at 180 East Broad Street, Columbus, Ohio 43215, email George.martin@puc.state.oh.us, (telephone number 614-752-9107). I&O'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. I&O 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 I&O.
- 3. I&O's project foremen will notify Tim Perkins 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.



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- 4. I&O will furnish two (2) copies of each partial bill to ORDC. Please find the enclosed Encumbrance Estimate to reference when billing.
- 5. I&O 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.
- 6. I&O will provide a credit for the pole line removal not necessary for our light and gate installation.

Thank you for your assistance with these matters.

Sincerely,

Tim Perkins

Project Manager

Sim Berkine

OHIO RAIL DEVELOPMENT COMMISSION

Diagnostic Review Team Survey

Reason for Survey: (e.g. formula, accident, constituent, etc.)	_		Date:	11113
Location Data				
Street or Road Name: Weimert School Ro	pad			
Route/Road Number (i.e. Twp., Co., SR or US)			US DOT No.:	258639W
County: AUG Township:	Clay	City: (In or Near)	Unipolis	
Railroad Name: Indiana & Ohio Railway	Railroad Division: IORY			Branch/Line DTI Middle Name:
Nearest RR Timetable Station:			RR Milepost	146.28
On-Site Review Team				
(Includes Name Organization Phone Number	F	and the second second second		
(Include: Name - Organization - Phone Number - 1. FMELSON	4	10 927	C91-6	050
FUDI			596-6	
2. FRiam Chay	+ TwD	419-7		_
3. GEORGE MARTIN	U PUCO	614-	152-6	9107
4. Pon Clark	GURR	875 न	39/2	5550
5. Signe Love	I+ORR	5i3 ·	505 C	1613
6. Cathy Stout	OLDC		82664	· · · · · · · · · · · · · · · · · · ·
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7		• •		
8				
9				
T. C. C. A.		una de <u>la companya de la companya de</u>		
Existing Traffic Control Devices	1	-17		
Type of Warning Devices Advance Warning Signs (condition?)	Installe Yes		+	Quantity/Comments
'Stop' Signs	Yes	∐ No [4] No		
'Stop Ahead' Signs	Yes	No.	•	
Pavement Markings (condition?)	☐ Yes	₽/No		
Crossbucks	Yes	□No		
Number of Tracks Signs	Yes	ŪN₀		
Inventory Tags		☐ No	one	La
Interconnected Highway Traffic Signal	☐ Yes	ĭ No		
Mast-Mounted Flashing Lights	☐ Yes	YNo		
Cantilever Flashing Lights	Yes	₽N ₀	Number:	Length:
Side Lights	☐ Yes	₽No		
Automatic Gates	Yes	P No	Number:	Length:
Bells	Yes	P/No	Number:	
Sidewalk Gate Arms	Yes	PN₀		
'No Turn' Signs	Yes	No.		
Illumination	Yes	<u>₽</u> ‰		
Is crossing flagged by train crew? Other	☐ Yes	□ No		
Vuid	☐ Yes	☐ No	1	

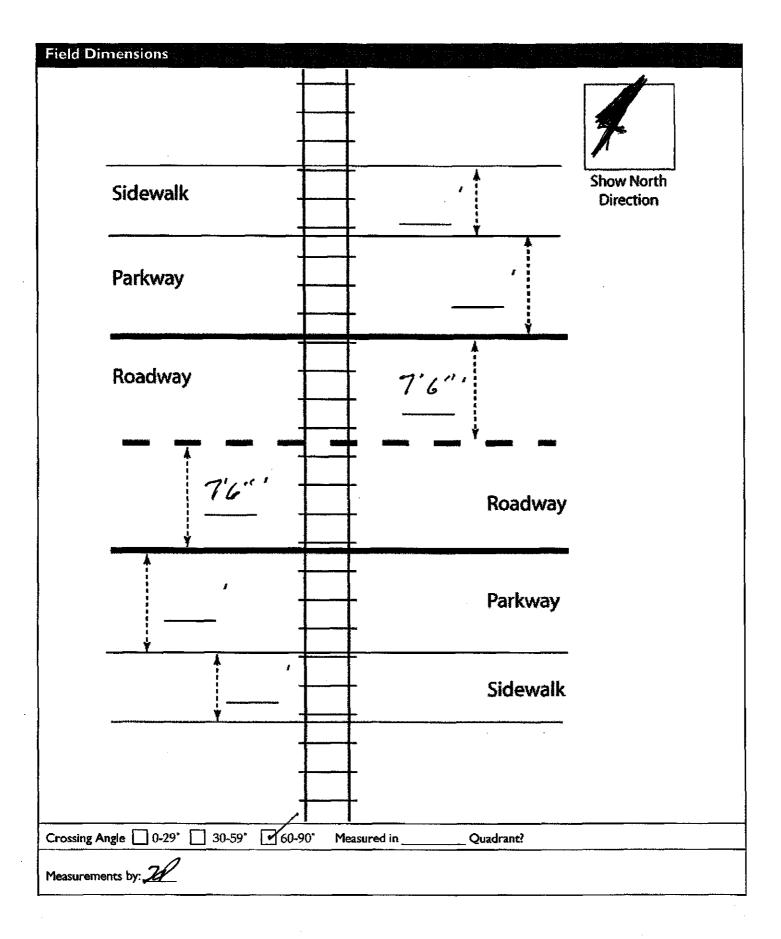
Safety Data (Obtain c			•	
Initial Information (from database)			Revised	
Number & dates of crashes in previous 5 years	1 (11/21/12)			
Hazard Ranking	438		Date Run: 4/8/13	
Railroad Data				
Railroad Characteri	stics	Initial Info	ormation (from database)	Revised
Total trains per day		4		
< I per day				
Day thru trains		2 U		
Night thru trains		2 V		
Daytime switching movem	ents	0		
Nighttime switching move	ments	0		
Total number of tracks		3		
Number of main tracks		1		
Number of other tracks				
Maximum train speed		40 25		
Typical train speed		2.5		
Amtrak				
If non-gated crossing, is cleari	ng sight distar	nce adequate i	n all quadrants? (See Table 1)	Yes Mo
If multiple tracks, can two tra	ins occupy cr	ossing at the s	ame time? 🔲 Yes 🔲 No	
Can one train block the moto	rists' view of	another train	at crossing? Tyes (Explain be	low) 🔲 No
Can one or more tracks be el			<u> </u>	
		roadway with	nin 100 ft of this crossing? 🔲 Y	es PNo
If yes, Crossing DOT #(if of the lift) If yes, distance		asurement be	tween track centerlines at closes	st point along roadway)
Roadway Data				
Local Highway Authority:		Clay Tow	<u>nship</u>	
Roadway Character	istics	Initial Inf	ormation (from database)	Revised
Average daily traffic		38 (2008)		Seasonal Hincreasing
Highway paved	•	X Yes	□No	Yes No
Roadway Surface: X Blacktop	Gravel	Concrete	Other	
Roadway width: 15 ft.				
Number of highway lanes		2	·	
Urban or Rural		Rural		
Vehicle Speed: 55 MPH				
School Bus Operation: No YesAmount				
Hazardous Materials Trucks: No YesAmount				
Shoulders: No Yes				
	Is the shoulder surfaced? No Yes			
Is there existing guardrail alor	ng roadway in	crossing vicin	ity? Mo Yes	
Is stopping site distance adequ	ıate? (See Tal	ole 2) 🔲 Ye	s No If no, deficient a	pproach(es) 🔀

* hoadway and railroad in cut. Stop lars and pavement markings should be added if pavement will support.

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: No Yes	clas			
I IS SIDEWAIK Dresent! 21 INO Tes	•			
Is there a nearby intersection that could cause queuing over the could get in the could cause queuing over the could get in t	rossing? No Yes			
Distance				
Is this intersection signalized? No Yes				
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				
Landing in the foreseastly forms Tible	by new or upgraded traffic signal, sidewalk) planned at or near this			
1 14	widering.			
Improvement type possible repaire Lead Agency_	Timeline/completion			
Is it the consensus of the Diagnostic Review Team that this is a po	otential closure project: No Yes			
Explain reasons:	west through commuity.			
	o polity.			
Type of Development				
Open Space Institutional Location of nearby	y schools: None - at bused. saturol oct 4-6 buses			
Industrial Commercial	satural			
Utility Information				
1112 TV				
Is commercial power available? If No Yes				
Utility Provider (Company Name) DP&L /Piones	Phone Number			
Nearest Available Power Source				
What other utilities are present? Gas Cable Telephone Fiber Optic Cable (add locations to sketch) Water Sanitary Sewer Other				
Is(are) there potential utility conflict(s) Yes No Unknown				
intersection of T.R. 130 Winner & Salval lead and				
Comments: AC power approf. 600' East of crossing at the intersection of T.R. 130, Weimert School load and C.A. 207, Dayer. AC power should be completed				
before construction start.				
sofu communion sun.				

Potential Red Flags / Project Challenges
Traffic Signal Preemption (include traffic signal intersection name and LHA with jurisdiction over traffic signal, if known):
N/A
Crossing Consolidation or Closure:
Real Estate or ROW: Routroad right of way will be shown in all quadrants.
Culverts / Drainage / Ballast Conditions:
Ditch work needed by railroad , to keep standing
water morning.
Roadway and/or Sidewalks:
N/A
Circuitry (e.g. reaches out to other crossings, specific needs, etc.):
gointed said, bonding will be necessary. (South of evening)
Environmental:
MA
Other: Due to Al power approl. 600 East of crossing, Al sower should be completed before construction start.
The state of the s

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	up to design team.
Other (define)	
Comments: 10ft Sat Sacks to a	commodate form velvide
Surface work for war	iccommodate from velvede. ing device circuitry to function
Drainage needled.	
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):	
	DE
CVR1 SU C	- <u></u> ,
	<u> </u>
· '	



Field Sketch		
Include utilities as marked by OUPS and LHA; include ROW boundaries as indicated by railroad and LHA.		
New prosbuch. u/cjield TR 130, Weimet School Rd. pot No. 258 639 W Gamted sail South of crossing.	New crosslovek w/ yield	
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
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
3	50
10	70
15	105
20	132
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.