

HITE

Public Utilities Commission of Ohio

2016 AUG 25 AM 10: 53

Memo

PHCO

To: Docketing Division

From: George Martin, Grade Crossing Planner, Rail Division

Re: In the matter of the authorization of the Ohio Central Railroad and CSX Transportation to install

active grade crossing warning devices Tuscarawas and Wood Counties

Date: August 25, 2016

The Ohio Rail Development Commission (ORDC) has authorized funding for the Ohio Central Railroad (OHCR) and CSX Transportation (CSX) to install mast-mounted flashing lights and roadway gates as follows:

OHCR, Tuscarawas County, Buck Township, near Baltic, Schrock Rd/TR 656, DOT# 474241X, surveyed due to constituent complaint on March 2, 2015, approved cost \$177,189.00, electric utility provider AEP.

CSX, Wood County, Washington Township, near Tontogany, Green Rd/TR 96, DOT# 155802E, surveyed due to hazard rank on September 29, 2015, approved cost \$300,673.00, electric utility provider Toledo Edison.

CSX, Wood County, near Portage, CR 28, DOT# 513660E, surveyed due to hazard rank on September 29, 2015, approved cost \$254,015.00, electric utility provider AEP.

These projects will be paid for with federal funds, and are actual cost. As the plans and estimates in the above referenced amounts have been submitted and approved, staff requests a Finding & Order with completion due 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. 16- / 7- / -RR-FED In the matter of the authorization of the Ohio Central Railroad and CSX Transportation to install active grade crossing warning devices in Tuscarawas and Wood Counties

C: Legal Department

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 business.

Technician A Date Processed 8/25//6

● Page 1

Please serve the following parties of record.

Ms Cathy Stout

Ohio Rail Development Commission

1980 West Broad St, Mailstop 3140

Columbus, Oh 43223

Bucks Township Trustees 7026 Fiat Rd SW

Stone Creek, Oh 43840

AEP

Toledo Edison

Ms Amanda DeCesare

CSX Transportation

500 Meijer Dr, Ste 305

Florence, Ky 41042

Mr John Hilborn

Ohio Central Railroad

4349 Easton Way, Ste 110

Columbus, Oh 43219

Mr Ray Huber, PE, PS

Wood County Engineer

One Courthouse Square Bowling Green, OH 43402

Washington Township Trustees

PO Box 232

Tontogany, Oh 43565

OHIO RAIL DEVELOPMENT COMMISSION INTER-OFFICE COMMUNICATION

TO: Randall Schumacher, Supervisor, Rail Division, PUCO

FROM: Cathy Stout, Manager, Safety Section, ORDC

BY: James Tucker, Safety Project Manager ORDC

SUBJECT: Tuscarawas County, TR656/Schrock Rd.

DOT# 474241X, PID# 100023.

DATE: August 22, 2016

The Ohio Rail Development Commission (ORDC) established a diagnostic survey at the subject location on March 2, 2015. The Public Utilities Commission of Ohio (PUCO) 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 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 Susan Arduni, ORDC ORDC Project Manager (file)

OHIO RAIL DEVELOPMENT COMMISSION



Mail Stop #3140, 1980 West Broad Street, Columbus OH 43223 John R. Kasich, Governor • Mark Policinski, ORDC Chairman

August 22, 2016

Mr. John Hilborn Vice President-Engineering, Ohio Valley Region Railroads Genesee & Wyoming/OHCR 4349 Easton Way, ste.110 Columbus, Oh 43219

RE: Tuscarawas County, TR 656/Schrock Rd, DOT#474241X

PID# 100023

Dear Mr. Hilborn:

The plan and estimate dated 8/22/2016, for the referenced project has been reviewed and is acceptable. OHCR may proceed with the construction of the proposed grade crossing warning system in accordance with the abbreviated plan. Construction may include but is not limited to circuitry design, installation of service poles, procurement of materials and signal construction. Please note ODOT Railroad Audit Circular No.4 Subcontracted Costs for Railroads and accordingly provide ORDC with any relevant bid documents and bid tabs pertaining to this project. 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 \$177,189.00 and will be adjusted based on bid tabulations if applicable. 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 OHCR accepting the following instructions:

- 1. OHCR's project foreman will furnish written notification five (5) working days prior to the date work will start at the project site to James Tucker, ORDC, email james.tucker@dot.ohio.gov, and to the Public Utilities Commission of Ohio at George.martin@puc.state.oh.us. OHCR'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. OHCR 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 OHCR.
- 3. OHCR's project foremen will notify James Tucker at 614-398-6897(telephone) or james.tucker@dot.ohio.gov (email) of any changes in the scope of work, cost overruns,



www.rail.ohio.gov phone: 614.644.0306

IMPROVING RAIL TODAY FOR TOMORROW'S ECONOMY

- material changes, etc. which are not included in the approved plan and estimate and secure approval of same before the work is performed.
- 4. Open cut of roadways is *not permitted* except in unusual circumstances and must be coordinated with the local highway authority and preapproved by ORDC.
- 5. OHCR will furnish two (2) copies of each partial bill to ORDC. Please find the enclosed ODOT Purchase Order to reference when billing.
- 6. OHCR 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,

James Tucker Project Manager

C: Randall Schumacher, Rail Division Supervisor, PUCO George Martin, Grade Crossing Planner, PUCO Susan Arduini, ORDC ORDC (file)

i

OHIO RAIL DEVELOPMENT COMMISSION

Diagnostic Review Team Survey

(e.g. formula, accident, constituent, etc.)		Date: 3/2/2015
Location Data		
Street or Road Name: Shrock Road	· · · · · · · · · · · · · · · · · · ·	
Route/Road Number (i.e. Twp., Co., SR or US) TR 656		US DOT No.: 474241X
County: TUS Township:	Buck City: (In or Near)	Near Baltic
Railroad Name: Ohio Central Railroad	Railroad Western	Branch/Line Zanesville Dist.
Nearest RR Timetable Station: Baltic		RR Milepost: 97.04
On-Site Review Team		
(Include: Name - Organization - Phone Number -	Email) ORDC	614 - 374 - 9287
2. ShAUN ZAFRY	PUCO	614-466-1150
3. <u>GEOLGE MARTH</u>	700	614-752-9107
4. muhar Comanger	Township Trustlee	330 897 1090
5. Vatuch Wofant	Town, SLIP	330-897-8601
6. 0 /2 x 000	TOWNShip trustee	332-897-1124
7. DAN BIRRELL	OHCR	740 295 4122
8		
9.		
Existing Traffic Control Devices	e splitare i set de sicologiani. Unitel dell'	
Existing Traffic Control Devices		
		Quantity Comments
Type of Warning Devices	/ Installed? /	Quantity/Comments
Type of Warning Devices Advance Warning Signs (condition?)	Installed? / Yes No	Quantity/Comments
Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs	/ Installed? ☐ Yes ☑ No ☐ Yes ☑ No	Quantity/Comments
Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs	/ installed? ☐ Yes ☑ No ☐ Yes ☑ No	
Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?)	Installed?	
Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs	/ installed? / ☐ Yes ☑ No ☐ Yes ☑ No ☐ Yes ☑ No	Quantity/Comments 1
Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks	Installed?	2 W/YIELDS
Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs	Installed?	
Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs Inventory Tags	Installed?	2 W/YIELDS
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	Installed? Yes	2 W/YIELDS
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	Installed? Yes	2 W/YIELDS 2 ENS
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	Installed? Yes	2 W/YIELDS 2 ENS
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	Installed? Yes	2 W/YIELDS 2 ENS Number: Length:
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 Automatic Gates	Installed? Yes	2 W/YIELDS 2 ENS Number: Length: Number: Length:
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 Automatic Gates Bells	Installed? Yes	2 W/YIELDS 2 ENS Number: Length: Number: Length:
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 Automatic Gates Bells Sidewalk Gate Arms	Installed? Yes	2 W/YIELDS 2 ENS Number: Length: Number: Length:
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 Automatic Gates Bells Sidewalk Gate Arms 'No Turn' Signs	Installed? Yes	2 W/YIELDS 2 ENS Number: Length: Number: Length:

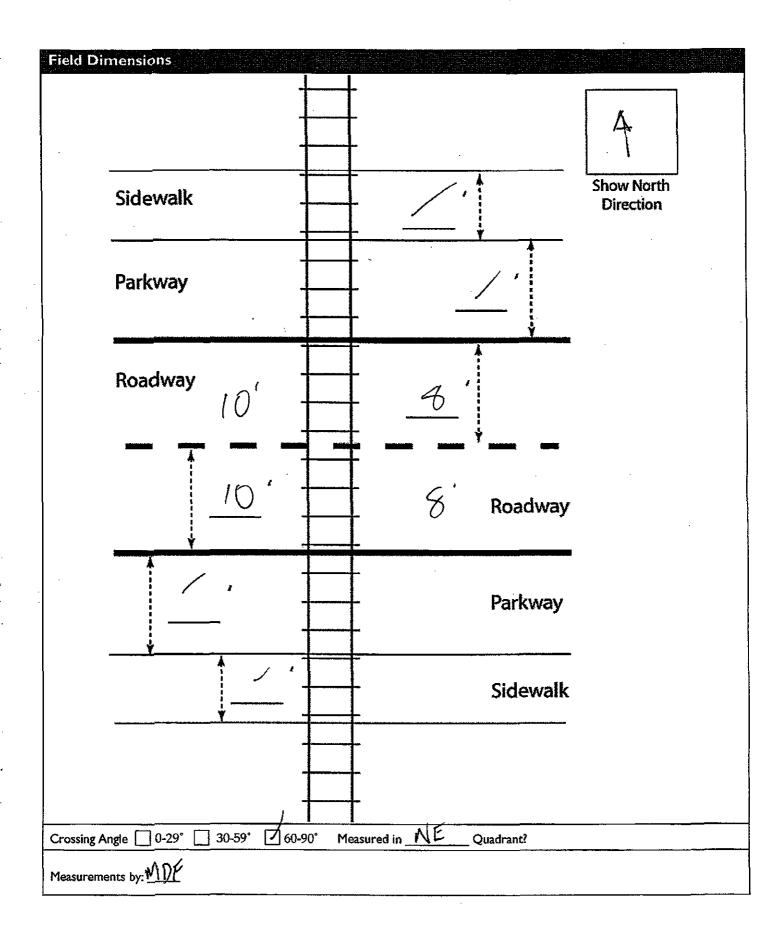
Safety Data (Obtain cr	rash repo	rts, if possible, prior to review)	
The state of the s		tial Information (from database)	Revised
Number & dates of crashes in previous 5 years	0		
Hazard Ranking	1430	Date Run: 12/30/2014	
Railroad Data			
Railroad Characteris	stics	Initial Information (from database)	Revised
Total trains per day		6	
< 1 per day			
Day thru trains	···	4	
Night thru trains	-1	2	
Daytime switching moveme			V65
Nighttime switching moven	nents		(6)
Total number of tracks			
Number of main tracks		1	
Number of other tracks			
Maximum train speed		30	
Typical train speed		30	<u> </u>
Amtrak			
If non-gated crossing, is clearin	g sight distar	ce adequate in all quadrants? (See Table I)	TYES PNOTHER ON W. QUA
If multiple tracks, can two train	ns occupy cre	ossing at the same time? Yes No	,
Can one train block the motor	rists' view of	another train at crossing? [Yeş (Explain be	low) No
Can one or more tracks be eli	minated thro	ough the crossing? Yes No	
Are there other track(s) cross	ing this same	roadway within 100 ft of this crossing?	res V7 No
If yes, Crossing DOT #(if d	lifferent)		
If yes, distance	(take me	asurement between track centerlines at close	st point along roadway)
Roadway Data			
Local Highway Authority:	-	Buck Township	
Roadway Characteri	stics	Initial Information (from database)	Revised
Average daily traffic		462	
Highway paved			
		Yes No	Yes No
Roadway Surface: V Blacktor	p 🔲 Gravel		Yes No
 		Concrete Other	Yes No
Roadway Surface: V Blacktop			Yes No
Roadway Surface: Slacktop Roadway width: ft. E			Yes No
Roadway Surface: Blacktop Roadway width: Loft. E Number of highway lanes			Yes No
Roadway Surface: Blacktop Roadway width: ft. C Number of highway lanes Urban or Rural	, /	Concrete Other 20' W Urban	Yes No
Roadway Surface: Blacktop Roadway width: Loft. E Number of highway lanes Urban or Rural Vehicle Speed: 55 MPH	, <u>(</u>	Concrete Other 20' W Urban	Yes No
Roadway Surface: Blacktop Roadway width: ft. C Number of highway lanes Urban or Rural Vehicle Speed: MPH School Bus Operation: No	,	Concrete Other Urban Amount B.	Yes No
Roadway Surface: Blacktop Roadway width: Loft. C Number of highway lanes Urban or Rural Vehicle Speed: MPH School Bus Operation: No Hazardous Materials Trucks: Shoulders: No	, [V] Y. □ No es	Concrete Other Urban Amount B.	Yes No
Roadway Surface: Blacktop Roadway width: Loft. C Number of highway lanes Urban or Rural Vehicle Speed: MPH School Bus Operation: No Hazardous Materials Trucks: Shoulders: No	· VY □ No es No VY	Concrete Other Urban es Amount	Yes No

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: V No Yes			
Is sidewalk present? V No Yes	/		
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, nearly location in the foreseeable future? V No Yes	by new or upgraded traffic signal, sidewalk) planned at or near this		
If 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		
- · · · · · · · · · · · · · · · · · · ·			
The of Division and the second second			
Type of Development			
Open Space Institutional Location of nearby	schools:		
	e NORTH		
Residential			
Utility Information	医外侧侧线 医克勒克氏 医克拉氏 医克拉氏 医克克氏 医克克氏 医克克氏 医克克氏征 医克氏征 医		
Is commercial power available? No			
Utility Provider (Company Name) AEP	Phone Number		
Nearest Available Power Source @ XINC			
What other utilities are present? Gas Cable (add locations to sketch) Other	Telephone Fiber Optic Cable Sanitary Sewer		
Is(are) there potential utility conflict(s)	Unknown		
Comments:	_1 ************************************		

Potential Red Flags / Project Challenges
Traffic Signal Preemption (include traffic signal intersection name and LHA with jurisdiction over traffic signal, if known):
NO
Crossing Consolidation or Closure:
No
Real Estate or ROW:
Culverts / Drainage / Ballast Conditions:
Big Pipe 36"?
Roadway and/or Sidewalks:
J 700
Circuitry (e.g. reaches out to other crossings, specific needs, etc.):
t
No.
Environmental:
$N_{\mathcal{O}}$
Other:

Diagnostic Team Recommendations		
	Quadrants Needed	
Install/upgrade active devices		
Automatic Flashing Lights (AFLS)		
☐ AFLS /Cants		
AFLS / Gates	SW, NE	
☐ AFLS / Gates / Cants		
☐ Bells / number		
Upgrade circuitry / type		
☐ Sidelights		
Guardrail Needed		
☐ Install/Replace curb		
Bungalow placement & offset from rail & highway		
☑ Other (define)		
Comments: IF NEW ATRAIN COUNTAINS THEN LTAGTS	TREBANK 15 QUALIFIES,	
Install/upgrade traffic signal preemption		
☐ No improvements needed		
Other (define)		
Acknowledgement of Recommendations (each entity represented acknowledgement): MD Do Mom	at the diagnostic must have at least one signature	
POA Con	DRB	

- No resources available to get new ADT. Due to hazard ranking and visibility at the crossing instell LAG. cms 3/24/15



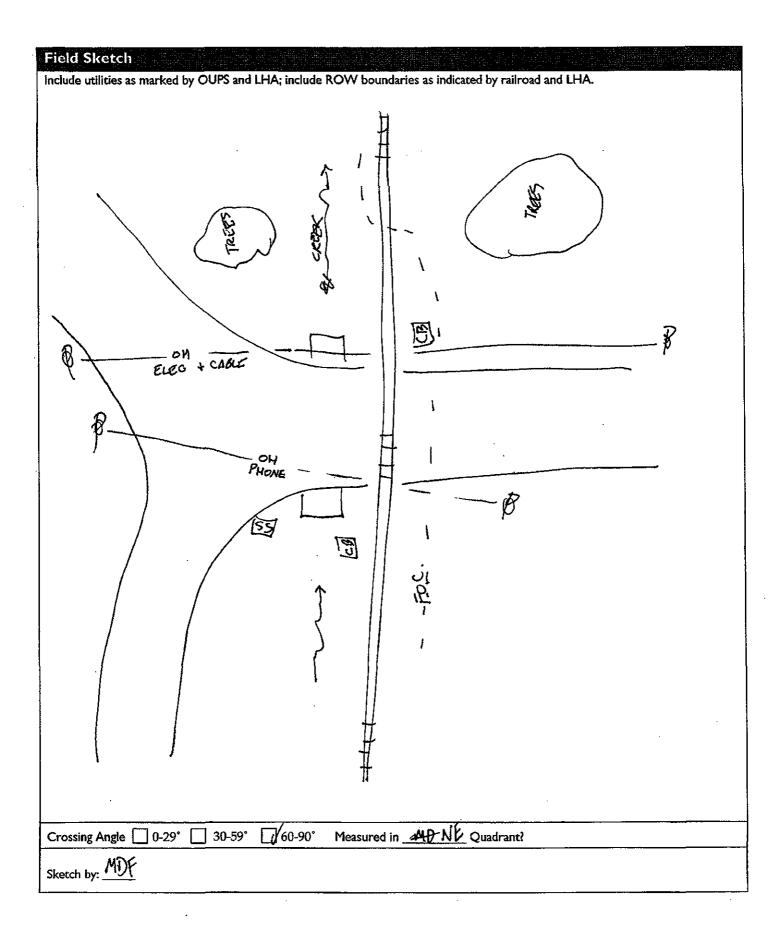


TABLE I

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 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	
	_ <u>l</u>	

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 COMMISSION INTER-OFFICE COMMUNICATION

TO: Randall Schumacher, Supervisor, Rail Division, PUCO

FROM: Cathy Stout, Manager, Safety Section, ORDC

BY: Don Damron, Project Manager, ORDC

SUBJECT: Wood County, TR 96, Green Rd. / CSX Transportation

DOT# 155802 PID# 102020

DATE: August 25, 2016

The Public Utilities Commission of Ohio (PUCO) established a Diagnostic Review Team Survey at the subject highway/railroad crossing location on 9/29/2015. The Ohio Rail Development Commission (ORDC) attended the Diagnostic Survey. The Diagnostic Review Team recommended the improvement of warning devices to flashing lights and roadway gates. Copies of the Diagnostic Review Team Survey form and the railroad plan and estimate are attached.

The PE has already been provided by the railroad. ORDC approved the site plans and estimates as provided. Please issue a construction-only order for the project outlined above. 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.

Attachments:

Diagnostic Review Team Survey dated 9/29/2015 CSX Force Account Estimate dated 3/15/2016 Proposed Crossing Layout – PE Approved Signal Layout

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

OHIO RAIL DEVELOPMENT COMMISSION



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

August 25, 2016

Amanda DeCesare Project Manager – Public Projects CSX Transportation 500 Meijer Drive, Suite 305 Florence, KY 41042

RE: Grade Crossing Warning Device Improvement – Construction Authorization

Wood County, TR 96, Green Rd.

DOT# 155802E PID# 102020

CSX ACCT. CODE: OH1088

Dear Ms. DeCesare:

The Force Account Estimate dated 3/15/2016 for the referenced project has been reviewed and is acceptable and the Proposed Crossing Layout has been approved as to signal layout only. CSX Transportation may proceed with the construction of the proposed grade crossing warning devise upgrade in accordance with the abbreviated plan. Please also refer to the ORDC email which authorized construction on 7/29/16 (attached). The 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 \$300,673.00. 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 CSX Transportation accepting the following instructions:

- 1. CSX's project foreman will furnish written notification five (5) working days prior to the date work will start at the project site to Don Damron, ORDC, 1980 West Broad Street, Columbus Ohio 43223, or email dot.ohio.gov, (mobile: 614-917-8466; office: 614-466-2509), and to the Public Utilities Commission of Ohio at George.martin@puc.state.oh.us (phone: 614-752-9107). The CSX 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. 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

IMPROVING RAIL TODAY FOR TOMORROW'S ECONOMY

- 3. CSX 's project foremen will notify Don Damron at 614-917-8466 (mobile phone) or don.damron@dot.ohio.gov (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. CSX will furnish two (2) copies of each partial bill to ORDC. Please find the enclosed ODOT Purchase Order to reference when billing.
- 5. 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.

Thank you for your assistance with these matters.

Sincerely,

Donald J. Damron Project Manager

C: Randall Schumacher, Supervisor, Rail Division, PUCO

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

Damron, Donald

From:

Stout, Catherine

Sent:

Friday, July 29, 2016 8:51 AM

To:

DeCesare, Amanda; Damron, Donald

Cc:

Henning, Nicole (External); Elliott, Scott (External); Reinhardt, Joseph

Subject:

RE: Status of PE for TR 96, Green Rd DOT# 155802E, and CR 28, Mermill Rd. DOT#

513660E

Yes, I have been in the field most of this week and was going to respond to Scott's email this morning...

We can issue formal construction authorization next week. I had been waiting on a couple of things on the traffic signal side but I have no problem issuing construction authorization. If you wish, you may consider this email authorization to proceed and we will follow up with the usual authorization letter next week.

Cathy Stout Manager, Safety Programs MS 3140, 1980 W. Broad Street Columbus, OH 43223 614-466-0313

From: DeCesare, Amanda [mailto:Amanda_DeCesare@csx.com]

Sent: Friday, July 29, 2016 8:47 AM

To: Damron, Donald <Don.Damron@dot.ohio.gov>; Stout, Catherine <Catherine.Stout@dot.ohio.gov>
Cc: Henning, Nicole (External) <Nicole_Henning@csx.com>; Elliott, Scott (External) <Scott_Elliott@csx.com>

Subject: RE: Status of PE for TR 96, Green Rd DOT# 155802E, and CR 28, Mermill Rd. DOT# 513660E

Cathy,

Do you have an ETA on the construction authorization for this project? Our signal team would like to do this at the same time as Hannah Rd. Thank you,

Amanda J. DeCesare

Project Manager
CSX Transportation | Public Projects (MI, OH, IN, IL)
(859) 372-6124 | 500 Meijer Drive, Suite 305, Florence, KY 41042
Click to view CSX's Public Projects Manual

From: DeCesare, Amanda

Sent: Monday, July 18, 2016 9:03 AM To: Don.Damron@dot.ohio.gov

Cc: Henning, Nicole (External)

Subject: FW: Status of PE for TR 96, Green Rd DOT# 155802E, and CR 28, Mermill Rd. DOT# 513660E

Don,

See attached. PE was submitted in March.

OHIO RAIL DEVELOPMENT COMMISSION

Diagnostic Review Team Survey

Reason for Survey: (e.g. formula, accident, constituent, etc.) Formula	RANK= 1522	Date: SEPT. 29 2015	
Location Data			
Street or Road Name: Green Road			
Route/Road Number (i.e. Twp., Co., SR or US)	-	US DOT No.: 155802E	
County: WOO Township:	Washington Twp. City: (In or Near)	Near Tontogany	
Railroad Name: CSX Transportation	Railroad Division: Louisville	Branch/Line Name:	
Nearest RR Timetable Station:		RR Milepost: 183.32 BE 185.20	
On-Site Review Team			
(Include: Name-Organization-Phone Number-Email) 1. DON DAMRON, ORDC, 614-917-8466 don.damron@dot.ohio.gov. 2. Steve Powell Washington Twp. 419-823-1718 3. Smpowell 53 @ gmail.com 4. CEORGE MARTIN PUCO GIV-752-9107 5. 6. 7. 8. 9. **NO RAILROAD REPRESENTATIVE.			
Existing Traffic Control Devices		Quantity/Comments	
Type of Warning Devices Advance Warning Signs (condition?)	Installed? Ves No	Quantity/Comments	
'Stop' Signs	Yes Z/No		
'Stop Ahead' Signs	☐ Yes ☑ No		
Pavement Markings (condition?)	Yes PNo		
Crossbucks	☐ Yes ☐ No		
Number of Tracks Signs	Yes		
Inventory Tags	☐ Yes ☐ No		
Interconnected Highway Traffic Signal	Yes PMo		
Mast-Mounted Flashing Lights		BL 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Cantilever Flashing Lights	Yes DYNo	Number: Length:	
Side Lights	Yes No		
Automatic Gates	Yes PNo	Number: Length:	
Bells	Yes VNo	Number:	
Sidewalk Gate Arms	Yes INO		
'No Turn' Signs	Yes WNo		
Illumination	Yes Who		
Is crossing flagged by train crew?	Yes No	UNKNOWN	
Other	☐ Yes ☐ No		

Safety Data (Obtain crash reports, if possible, prior to review)				
		ial Information (from database)	Revised	
Number & dates of crashes in previous 5 years	0			
Hazard Ranking	1522 Date Run: 8/18/15			
Railroad Data				
Railroad Characteris	stics	Initial Information (from database)	Revised	
Total trains per day		10	NEED CONFIRMATION	
< I per day				
Day thru trains		3		
Night thru trains		5		
Daytime switching movement		2		
Nighttime switching mover Total number of tracks	ments	1		
Number of tracks		1		
Number of other tracks		1		
Maximum train speed		50	NEED CONFIRMATION	
Typical train speed		50		
Amtrak	·		SIGNAL	
If non-gated crossing, is clearing	ng sight distan	ce adequate in all quadrants? (See Table 1)	Yes No BUNGALOW OBSTRUCTION	
If multiple tracks, can two trains occupy crossing at the same time? Yes Alo Can one train block the motorists' view of another train at crossing? Yes (Explain below) Can one or more tracks be eliminated through the crossing? Yes Alo				
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 closest point along roadway)				
If yes, Crossing DOT #(if of If yes, distance	different)	<u> </u>		
If yes, Crossing DOT #(if of If yes, distance	different)	asurement between track centerlines at close		
If yes, Crossing DOT #(if of If yes, distance Roadway Data Local Highway Authority:	different) (take mea	asurement between track centerlines at close Washington Twp.	est point along roadway)	
If yes, Crossing DOT #(if of If yes, distance	different) (take mea	Washington Twp. Initial Information (from database)	est point along roadway) Revised	
If yes, Crossing DOT #(if of If yes, distance Roadway Data Local Highway Authority:	different) (take mea	Washington Twp. Initial Information (from database)	est point along roadway)	
If yes, Crossing DOT #(if of figures) figures, distance Roadway Data Local Highway Authority: Roadway Characteric Average daily traffic Highway paved	different) (take mea	Washington Twp. Initial Information (from database) 187 (2007) Yes No	est point along roadway) Revised	
If yes, Crossing DOT #(if of If yes, distance	different) (take mea	Washington Twp. Initial Information (from database) 187 (2007) Yes No	Revised NO NEW DATA AVAILABLE	
If yes, Crossing DOT #(if of If yes, distance	different) (take mea	Washington Twp. Initial Information (from database) 187 (2007) Yes No	Revised NO NEW DATA AVAILABLE	
If yes, Crossing DOT #(if of If yes, distance Roadway Data Local Highway Authority: Roadway Characteric Average daily traffic Highway paved Roadway Surface: Blackto	different) (take mea	Washington Twp. Initial Information (from database) 187 (2007) Yes No	Revised NO NEW DATA AVAILABLE	
If yes, Crossing DOT #(if of If yes, distance Roadway Data Local Highway Authority: Roadway Characteric Average daily traffic Highway paved Roadway Surface: Blackto Roadway width: 12 ft. Number of highway lanes	different) (take mea	Washington Twp. Initial Information (from database) 187 (2007) Yes No Concrete Other	Revised NO NEW DATA AVAILABLE	
If yes, Crossing DOT #(if of If yes, distance	different) (take mea	Washington Twp. Initial Information (from database) 187 (2007) Yes No	Revised NO NEW DATA AVAILABLE	
If yes, Crossing DOT #(if of If yes, distance Roadway Data Local Highway Authority: Roadway Characteric Average daily traffic Highway paved Roadway Surface: Blackto Roadway width: 12 ft. Number of highway lanes Urban or Rural Vehicle Speed: 56 MPH	different) (take meaning take meaning	Washington Twp. Initial Information (from database) 187 (2007) Yes No Concrete Other	Revised NO NEW DATA AVAILABLE	
If yes, Crossing DOT #(if of If yes, distance	different)(take meanistics p	Washington Twp. Initial Information (from database) 187 (2007) Yes No Concrete Other S Amount	Revised NO NEW DATA AVAILABLE	
If yes, Crossing DOT #(if of If yes, distance Roadway Data Local Highway Authority: Roadway Characteric Average daily traffic Highway paved Roadway Surface: Blackto Roadway width: 12 ft. Number of highway lanes Urban or Rural Vehicle Speed: 56 MPH School Bus Operation: Note Hazardous Materials Trucks:	different) (take meaning istics p	Washington Twp. Initial Information (from database) 187 (2007) Yes No Concrete Other	Revised NO NEW DATA AVAILABLE	
If yes, Crossing DOT #(if of If yes, distance Roadway Data Local Highway Authority: Roadway Characteric Average daily traffic Highway paved Roadway Surface: Blackto Roadway width: 12 ft. Number of highway lanes Urban or Rural Vehicle Speed: 56 MPH School Bus Operation: Note that are the second seco	istics Gravel One No One Ses	Washington Twp. Initial Information (from database) 187 (2007) Yes No Concrete Other S Amount Wes 405 Amount	Revised NO NEW DATA AVAILABLE	
If yes, Crossing DOT #(if of If yes, distance Roadway Data Local Highway Authority: Roadway Characteric Average daily traffic Highway paved Roadway Surface: Blackto Roadway width: I	istics Gravel No No	Washington Twp. Initial Information (from database) 187 (2007) Yes No Concrete Other EYes Amount Yes Amount Yes	Revised NO NEW DATA AVAILABLE	
If yes, Crossing DOT #(if of If yes, distance Roadway Data Local Highway Authority: Roadway Characteric Average daily traffic Highway paved Roadway Surface: Blackto Roadway width: 12 ft. Number of highway lanes Urban or Rural Vehicle Speed: 56 MPH School Bus Operation: Note that the shoulders of the shoulder surfaced? It is there existing guardrail along.	istics Gravel O No Yes No O Res No O	Washington Twp. Initial Information (from database) 187 (2007) Yes No Concrete Other S Amount Yes 205 Amount Yes Crossing vicinity?	Revised No NEW DATA AVAILABLE Yes No	
If yes, Crossing DOT #(if of If yes, distance Roadway Data Local Highway Authority: Roadway Characteric Average daily traffic Highway paved Roadway Surface: Blackto Roadway width: 12 ft. Number of highway lanes Urban or Rural Vehicle Speed: 56 MPH School Bus Operation: Nother Management of Italian Nother School Bus Operation:	istics Gravel O No Yes No O Res No O	Washington Twp. Initial Information (from database) 187 (2007) Yes No Concrete Other S Amount Yes 405 Amount Yes Crossing vicinity? INO Yes	Revised No NEW DATA AVAILABLE Yes No	

.

	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: Vo Yes		
Is sidewalk present? No Yes		
Is there a nearby intersection that could cause queuing over the off yes, Distance	crossing? PNo Yes	
Are the signals currently interconnected with the existing cross is there a 'Do not Stop on Track' sign?	sing warning devices? 🔽 No 🔲 Yes	
Is a roadway improvement project (e.g. widening, turn lanes, neal location in the foreseeable future? No Yes If yes, Improvement type No PLANS Lead Agency		
Is it the consensus of the Diagnostic Review Team that this is a p	potential closure project: MNo Yes	
Type of Development Dopen Space Institutional Location of nearly Loca		
☐ Industrial ☐ Commercial ☐ HASKINS ☐ Residential ☐ STU	PK-12 IN TONTOGANY UDENTS ATTEND TONTOGANY SCA	
Utility Information		
一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个	以是一些主题。 才是国际经济的影响的主要的现在分词 等的特别的主要的	
Is commercial power available? No		
Utility Provider (Company Name) Toleyo Evisor	Phone Number	
	Phone Number	
Nearest Available Power Source AT EXISTING SIRVED		
	☐ Telephone ☐ Fiber Optic Cable	
What other utilities are present? Gas Cable (add locations to sketch) Petroleum Water Other	Sanitary Sewer	
(add locations to sketch) Petroleum Water Other Is(are) there potential utility conflict(s) Yes No	Sanitary Sewer Unknown	
(add locations to sketch) Petroleum Water Other Is(are) there potential utility conflict(s) Yes No Comments:		
(add locations to sketch) Petroleum Water Other Is(are) there potential utility conflict(s) Yes No Comments:	Unknown	
(add locations to sketch) Petroleum Water Other Is(are) there potential utility conflict(s) Yes No Comments:	Unknown	
(add locations to sketch) Petroleum Water Other Is(are) there potential utility conflict(s) Yes No Comments:	Unknown	
(add locations to sketch) Petroleum Water Other Is(are) there potential utility conflict(s) Yes No Comments:	Unknown	
(add locations to sketch) Petroleum Water Other Is(are) there potential utility conflict(s) Yes No Comments:	Unknown	

 $(S_{i,j}, \mathcal{A}_{i,j}) = (S_{i,j}, \mathcal{A}_{i,j}) = (S_{i,j}, \mathcal{A}_{i,j}) = (S_{i,j}, \mathcal{A}_{i,j}) = (S_{i,j}, \mathcal{A}_{i,j})$

Potential Red Flags / Project Challenges	
Traffic Signal Preemption (include traffic signal intersection name and LHA with jurisdiction over traffic signal, if known):	القاهبين بمسع
NA	
Crossing Consolidation or Closure:	
MA	
Real Estate or ROW:	
NA	
Culverts / Drainage / Ballast Conditions: WOOD RETAINING WALLS AND	
CULVERT IN NE QUAD IN ROUGA SHAPE.	
Roadway and/or Sidewalks:	
NA	
Circuitry (e.g. reaches out to other crossings, specific needs, etc.): EXISTING SIGNAL HOUSE IN SE QUAD TOO CLOSE TO RE	OAD,
Environmental:	-
NA	
Other:	

. .

Diagnostic Team Recommendations	
	Quadrants Needed
Install/upgrade active devices	
Automatic Flashing Lights (AFLS)	
AFLS /Cants	
AFLS / Gates	SE + NW
AFLS/ Gates / Cants	
Bells / number	
Upgrade circuitry / type	
☐ Sidelights	
Guardrail Needed	
☐ Install/Replace curb	
Bungalow placement & offset from rail & highway	BUNGALOW PLACEMENT MAY BE DIFFICULT
Other (define)	
Comments: CONSENSUS (NO CSX REA)) :
M.	
Comments: CONSENSUS (NO CSX REP.) "UPGRADE WARNING DEVICE	5 TO LIGHTS XND GATES"
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):	
(WHO)	
Ate Pour	1/
·	
Field Dimensions	机式 建甲烷 医克里耳氏表皮 医骨部 化对邻苯基甲甲甲基苯基
K	
<u> </u>	
Sidewalk Show North Direction	
Stdewalk Direction	,
Parkway	
Parkway	
	
Roadway 6	
	/
6 Roadway	
· · · · · · · · · · · · · · · · · · ·	
NA Parkway NONTH	
- UW IT WE	1
Sidewalk	
<i>ا</i> المراجد ا	
SE SE	

VM		ETMB ER ETMUNDE
REN OH ELECTRIC		COLVERT WALL SICAL
TIMBER/AGRABLY	12	
SORFACE IN GOOD CONDITION	A A	Powe DRO
		EXISTING E
A THE	12-	BUNGALOW
		40
		A
OP TO SW		OPER OPER
Crossing Angle 0-29° 30-59° [60-90° Measured in	Quadrant?
Sketch by: \cancel{DID}		

Commence of the control of the contr

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 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	п/а
5	50
10	70
15	105
20	135
25	. 180
30	225
35	280
40	340
45	410
50	490
<u>(5</u>)	C5ZO
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 COMMISSION INTER-OFFICE COMMUNICATION

TO: Randall Schumacher, Supervisor, Rail Division, PUCO

FROM: Cathy Stout, Manager, Safety Section, ORDC

BY: Don Damron, Project Manager, ORDC

SUBJECT: Wood County, CR 28, Mermill Rd. / CSX Transportation

DOT# 513660E PID# 101889

DATE: August 25, 2016

The Public Utilities Commission of Ohio (PUCO) established a Diagnostic Review Team Survey at the subject highway/railroad crossing location on 9/29/2015. The Ohio Rail Development Commission (ORDC) attended the Diagnostic Survey. The Diagnostic Review Team recommended the improvement of warning devices to flashing lights and roadway gates. Copies of the Diagnostic Review Team Survey form and the railroad plan and estimate are attached.

The PE has already been provided by the railroad. ORDC approved the site plans and estimates as provided. Please issue a construction-only order for the project outlined above. 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.

Attachments:

Diagnostic Review Team Survey dated 9/29/2015 CSX Force Account Estimate dated 3/4/2016 Proposed Crossing Layout – PE Approved Signal Layout

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

OHIO RAIL DEVELOPMENT COMMISSION Mail Stop #3140, 1980 West Broad Street, Columbus OH 43223



John R. Kasich, Governor • James G. Bradley, Chairman

August 25, 2016

Amanda DeCesare Project Manager -- Public Projects **CSX** Transportation 500 Meijer Drive, Suite 305 Florence, KY 41042

Grade Crossing Warning Device Improvement – Construction Authorization RE:

Wood County, CR 28, Mermill Rd.

DOT# 513660E PID# 101889

CSX ACCT, CODE: OH1087

Dear Ms. DeCesare:

The Force Account Estimate dated 3/4/2016 for the referenced project has been reviewed and is acceptable and the Proposed Crossing Layout has been approved as to signal layout only. CSX Transportation may proceed with the construction of the proposed grade crossing warning device upgrade in accordance with the abbreviated plan. Please also refer to the ORDC email which authorized construction on 7/29/16. The construction 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 \$254,015.00. 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 CSX Transportation accepting the following instructions:

- CSX's project foreman will furnish written notification five (5) working days prior to the 1. date work will start at the project site to Don Damron, ORDC, 1980 West Broad Street, Columbus Ohio 43223, or email don.damron@dot.ohio.gov, (mobile: 614-917-8466; office: 614-466-2509), and to the Public Utilities Commission of Ohio at George.martin@puc.state.oh.us (phone: 614-752-9107). The CSX 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. 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 IMPROVING RAIL TODAY FOR TOMORROW'S ECONOMY

- 3. CSX 's project foremen will notify Don Damron at 614-917-8466 (mobile phone) or don.damron@dot.ohio.gov (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. CSX will furnish two (2) copies of each partial bill to ORDC. Please find the enclosed ODOT Purchase Order to reference when billing.
- 5. 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.

Thank you for your assistance with these matters.

Sincerely,

Donald J. Damron Project Manager

C: Randall Schumacher, Supervisor, Rail Division, PUCO George Martin, Grade Crossing Planner, PUCO ORDC (file)

OHIO RAIL DEVELOPMENT COMMISSION

Diagnostic Review Team Survey

Reason for Survey: Formula (e.g. formula, accident, constituent, etc.)	RANK = 1291		Date: SE	PT. 29, 2015	
Location Data					
Street or Road Name: Mermill Road				Note that the second of the se	
Route/Road Number (i.e. Twp., Co., SR or US) CR 28			US DOT No.:	513660E	
County: WOO Township:		City: (In or Near)	Near Portage	9	
Railroad Name: CSX Transportation	Railroad Chicago		- 1	Branch/Line TOLEDO Name: BRANCH	¥
Nearest RR Timetable Station:		.,,	RR Milepost	26.04	1
On-Site Review Team					
(Include: Name-Organization-Phone Number- 1. DON DAMRON, ORDO 2. JOHN MUSICALE, EAGL	614 917-8 	3466, du 2060 j m	m.clomron	adot. ohio. gov.	
3. CEOKLE MARTIN	PUCO 614-	1354906 152-91	orpube	co/ollowout	
5. Justin Rhover, CSX, 20				COM	
6			·		
,					
7					1
8		<u> </u>			
8 9					
8 9 Existing Traffic Control Devices					
8 9 Existing Traffic Control Devices Type of Warning Devices	Installed			Quantity/Comments	
8 9 Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs (condition?)	₩ Yes	□No		Quantity/Comments	
8 9 Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs	✓ Yes	□ No □ No		Quantity/Comments	
8 9 Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs	Yes	□No □No □No			
8. 9. Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?)	☐ Yes☐ Yes☐ Yes☐ Yes☐ Yes☐ Yes☐ Yes☐ Yes	☐ No ☐ No ☐ No		Quantity/Comments RE-PAINTING	
8. 9. Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks	☐ Yes☐ Yes☐ Yes☐ Yes☐ Yes☐ Yes☐ Yes☐ Yes	☐ No ☐ No ☐ No ☐ No			
8 9 Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs	☐ Yes☐ Yes☐ Yes☐ Yes☐ Yes☐ Yes☐ Yes☐ Yes	□ No □ No □ No □ No □ No			
8. 9. Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs Inventory Tags	Yes Yes Yes Yes Yes Yes Yes Yes	☐ No ☐ No ☐ No ☐ No ☐ No			
8 9 Existing Traffic Control Devices 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	Yes	□ No □ No □ No □ No □ No □ No			
8. 9. Existing Traffic Control Devices 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	Yes	□ Xo □ Xo □ Xo □ Xo □ Xo	NEED	RE-PAINTING	
8. 9. Existing Traffic Control Devices 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	Yes	□ Xo □ Xo □ Xo □ Xo □ Xo □ Xo □ Xo			
8. 9. Existing Traffic Control Devices 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	Yes Yes	□ Xo □ Xo □ Xo □ Xo □ Xo □ Xo □ Xo	NEFO Number:	RE-PAINTING Length:	
8	Yes Yes	□ Xo □ Xo □ Xo □ Xo □ Xo □ Xo □ Xo □ Xo	Number:	RE-PAINTING	
8	Yes Yes	□ X° □ X° ○ X°	NEFO Number:	RE-PAINTING Length:	
8. 9. Existing Traffic Control Devices 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 Automatic Gates Bells Sidewalk Gate Arms	Yes Yes	□ X° □ X° ○ X° □ X° ○ X°	Number:	RE-PAINTING Length:	
8. 9. Existing Traffic Control Devices 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 Automatic Gates Bells Sidewalk Gate Arms 'No Turn' Signs	Yes Yes	□ Xo □ Xo □ Xo □ Xo □ Xo □ Xo □ Xo □ Xo	Number: Number: Number:	RE-PAINTING Length: Length:	
8	Yes Yes	□ Xo	Number: Number: Number:	RE-PAINTING Length:	
8. 9. Existing Traffic Control Devices 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 Automatic Gates Bells Sidewalk Gate Arms 'No Turn' Signs	Yes Yes	□ Xo □ Xo □ Xo □ Xo □ Xo □ Xo □ Xo □ Xo	Number: Number: Number:	RE-PAINTING Length: Length:	

Safety Data (Obtain crash reports, if possible, prior to review)				
	Initial Information (from database)		Revised	
Number & dates of crashes in previous 5 years	0 (6/21/2004)			
Hazard Ranking	1291	Date Run: 8/18/15	828 10/7/15	
Railroad Data				
Railroad Characteris	tics	Initial Information (from database)	Revised	
Total trains per day		9	OK	
< 1 per day				
Day thru trains		2	OK	
Night thru trains		4	0 k	
Daytime switching moveme	ents	3	5.00281-PERTICIZER PLANT	
Nighttime switching moven	nents		PAUS HOPPERS IN BG	
Total number of tracks		1	MANY SHIPPERS ON NEWTON KI	
Number of main tracks		1		
Number of other tracks		·		
Maximum train speed		50		
Typical train speed		50		
Amtrak				
If non-gated crossing, is clearin	ig sight distar	ce adequate in all quadrants? (See Table 1)	TYes No SOMPH=1200'	
If multiple tracks, can two train	ns occupy cr	ossing at the same time? Yes No		
Can one train block the motor	rists' view of	another train at crossing? Tyes (Explain be	elow) 🗍 No	
Can one or more tracks be eli		· ·	,	
Are there other track(s) cross	Are there other track(s) crossing this same roadway within 100 ft of this crossing? Yes No			
If yes, Crossing DOT #(if different)				
	lifferent)	· ·		
lf yes, distance	lifferent)	asurement between track centerlines at close		
If yes, distance Roadway Data	lifferent)	asurement between track centerlines at close		
lf yes, distance	lifferent)(take me	· ·		
If yes, distance Roadway Data Local Highway Authority:	lifferent)(take me	asurement between track centerlines at close Wood County	Revised	
If yes, distance Roadway Data Local Highway Authority: Roadway Characteri	lifferent)(take me	Wood County Initial Information (from database)	est point along roadway)	
If yes, distance Roadway Data Local Highway Authority: Roadway Characteri Average daily traffic	lifferent) (take me	Wood County Initial Information (from database) 340 (2012) Yes No	Revised 750 REVISED	
If yes, distance Roadway Data Local Highway Authority: Roadway Characteri Average daily traffic Highway paved Roadway Surface: Blacktop	lifferent) (take me	Wood County Initial Information (from database) 340 (2012) Yes No	Revised 750 REVISED	
If yes, distance Roadway Data Local Highway Authority: Roadway Characteri Average daily traffic Highway paved Roadway Surface: Blackton Roadway width: 20 ft.	lifferent) (take me	Wood County Initial Information (from database) 340 (2012) Yes No Concrete Other	Revised 750 REVISED	
If yes, distance Roadway Data Local Highway Authority: Roadway Characteri Average daily traffic Highway paved Roadway Surface: Blackton Roadway width: 20 ft. Number of highway lanes	lifferent) (take me	Wood County Initial Information (from database) 340 (2012) Yes No Concrete Other	Revised 750 REVISED	
If yes, distance Roadway Data Local Highway Authority: Roadway Characteri Average daily traffic Highway paved Roadway Surface: Blacktop Roadway width: 20 ft. Number of highway lanes Urban or Rural	lifferent) (take me	Wood County Initial Information (from database) 340 (2012) Yes No Concrete Other	Revised 750 REVISED	
If yes, distance Roadway Data Local Highway Authority: Roadway Characteri Average daily traffic Highway paved Roadway Surface: Blacktop Roadway width: 20 ft. Number of highway lanes Urban or Rural	Ilfferent) (take me stics	Wood County Initial Information (from database) 340 (2012) Yes No Concrete Other Rugal	Revised 750 REVISED	
If yes, distance Roadway Data Local Highway Authority: Roadway Characteri Average daily traffic Highway paved Roadway Surface: Blacktop Roadway width: 20 ft. Number of highway lanes Urban or Rural Vehicle Speed: 35 MPH	Ilfferent) (take me stics	Wood County Initial Information (from database) 340 (2012) Yes No Concrete Other Rival Amount	Revised 750 REVISED Yes No	
If yes, distance Roadway Data Local Highway Authority: Roadway Characteri Average daily traffic Highway paved Roadway Surface: Blacktop Roadway width: 20 ft. Number of highway lanes Urban or Rural Vehicle Speed: 35 MPH School Bus Operation: Note Hazardous Materials Trucks:	Ilfferent) (take me stics Gravel 55 First	Wood County Initial Information (from database) 340 (2012) Yes No Concrete Other Rival Amount	Revised 750 REVISED Yes No	
If yes, distance Roadway Data Local Highway Authority: Roadway Characteri Average daily traffic Highway paved Roadway Surface: Blacktop Roadway width: 20 ft. Number of highway lanes Urban or Rural Vehicle Speed: 35 MPH School Bus Operation: Note the standard of the standard	Ilfferent) (take me stics Gravel 55 FAST) No es	Wood County Initial Information (from database) 340 (2012) Yes No Concrete Other Rival Amount	Revised 750 REVISED Yes No	
If yes, distance Roadway Data Local Highway Authority: Roadway Characteri Average daily traffic Highway paved Roadway Surface: Blacktor Roadway width: 20 ft. Number of highway lanes Urban or Rural Vehicle Speed: 35 MPH School Bus Operation: No Hazardous Materials Trucks: Shoulders: No	Ilfferent) (take me stics Gravel 55 Exst) No es No	Wood County Initial Information (from database) 340 (2012) Yes No Concrete Other Rudd EYes 105 Amount FERTILIZ Yes	Revised 750 REVISED Yes No	
If yes, distance Roadway Data Local Highway Authority: Roadway Characteri Average daily traffic Highway paved Roadway Surface: Blackton Roadway width: 20 ft. Number of highway lanes Urban or Rural Vehicle Speed: 35 MPH School Bus Operation: No Hazardous Materials Trucks: Shoulders: No Y	Ilfferent) (take me stics Gravel 55 EAST) No es No groadway in	Wood County Initial Information (from database) 340 (2012) Yes No Concrete Other Ruck Amount Yes 105 Amount FERTILIZ Yes Crossing vicinity? No Yes	Revised 750 REVISED Yes No	
If yes, distance Roadway Data Local Highway Authority: Roadway Characteri Average daily traffic Highway paved Roadway Surface: Blacktor Roadway width: 20 ft. Number of highway lanes Urban or Rural Vehicle Speed: 35 MPH School Bus Operation: No Hazardous Materials Trucks: Shoulders: No You You You You You You You You You Yo	Ilfferent) (take me stics Gravel 55 EAST) No es No groadway in	Wood County Initial Information (from database) 340 (2012) Yes No Concrete Other Rudd Ses O Amount Yes 105 Amount FERTILIZ Yes crossing vicinity? No Yes lie 2) Yes No If no, deficient a	Revised 750 REVISED Yes No	
If yes, distance Roadway Data Local Highway Authority: Roadway Characteri Average daily traffic Highway paved Roadway Surface: Blacktor Roadway width: 20 ft. Number of highway lanes Urban or Rural Vehicle Speed: 35 MPH School Bus Operation: No Hazardous Materials Trucks: Shoulders: No You You You You You You You You You Yo	Ilfferent) (take me stics Gravel 55 EAST) No es No groadway in	Wood County Initial Information (from database) 340 (2012) Yes No Concrete Other Ruck Amount Yes 105 Amount FERTILIZ Yes Crossing vicinity? No Yes	Revised 750 REVISED Yes No	

	Quadrant NE Curb and Gutter:	Quadrant <u>Sh</u> 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	7 None		
	Pedestrians: No Uses	,		
	Is sidewalk present? No Yes			
	Is there a nearby intersection that could cause queuing over the c	rossing? No Yes		
	If yes, Distance			
	Is this intersection signalized? Tho Tes			
	Are the signals currently interconnected with the existing crossing warning devices? Tho Yes			
,	Is there a 'Do not Stop on Track' sign? 🕡 闪 🦳 Yes	:		
*	Is a roadway improvement project (e.g. widening, turn lanes, near location in the foreseeable future? No Yes If yes,	by new or upgraded traffic signal, sidewalk) planned at or near this REVAFACED RECENTLY		
		Timeline/completion -		
	Is it the consensus of the Diagnostic Review Team that this is a po	otential closure project; WNO Yes		
	Explain reasons:			
	Type of Development			
	Open Space Institutional Location of nearby	y schools:		
	☐ Industrial ☐ Commercial → Bowline	6 Green		
	Residential			
	Utility Information			
	Is commercial power available? No Yes			
	Utility Provider (Company Name) <u> </u>	Phone Number		
	Nearest Available Power Source AT CROSSIN G	·		
	What other utilities are present? Gas VG Cable	☐ Telephone ☐ Fiber Optic Cable		
	(add locations to sketch) Petroleum Water Other	Sanitary Sewer		
	Is(are) there potential utility conflict(s) Yes No	Unknown		
	Commonter			
	WG COLUMBIA GAS LIN	IF SLONG SOUTH STNE OF MENHILL RD. ST SIDE OF RR TRACKS		
	11/2 Fix = 2 11 = 2	- 20 - 20 - 20		
	TIBER ALONG EN	ST STUE OF RETRACES		
	APPROX 12' FROM ?			
	LOUG GAS 13 APPROX 20	FROM EDGE OF ROADWAY		
	OH CABLE & POLLOD	MAN NECO 24 AE JOI MAN		
	POWER POLE IN NE QUI	MAY NEED TO BE RELUCIVED AD MAY OBSTRUCT PRE-VIEW.		

OSSING CONSOLIDATION OF CLOSURE: NA All Estate or ROW: ROADWAY = GO' (CENTER LINE OF ROW & SOUTH EOR) RAIL ROAD = HTG' 80' QUUFIRMEN BY CD. ENG. Alverts / Drainage / Ballast Conditions: NA Advay and/or Sidewalks: NA TOUTHY (e.g. reaches out to other crossings, specific needs, etc.): INTERMEDIATE SIGNALS (SIGNAL HOUSE) Vironmental: NA ther:	
ossing Consolidation or Closure: NA al Estate or ROW: ROADWAY = BO' (CENTER LINE OF ROW @ SOUTH EOR) RAILROAD = DO' 80' CONFIRMEN BY CO. ENG. Ilverts / Drainage / Ballast Conditions: NA radway and/or Sidewalks: NA TRUITERMENATE SIGNALS (SIGNAL HOUSE) vironmental: NA	PR)
ossing Consolidation or Closure: NA al Estate or ROW: ROADWAY = BO' (CENTER LINE OF ROW @ SOUTH EOR) RAILROAD = DO' 80' CONFIRMEN BY CO. ENG. Ilverts / Drainage / Ballast Conditions: NA radway and/or Sidewalks: NA TRUITERMENATE SIGNALS (SIGNAL HOUSE) vironmental: NA	(PR)
All Estate or ROW: ROADWAY = 80' (CENTER LINE OF ROW & SOUTH EOR) RAIL ROAD = 1000' 80' 200 FIRMEN BY CD. ENG. INVERTS / Drainage / Ballast Conditions: NA Padway and/or Sidewalks: NA Prouitry (e.g. reaches out to other crossings, specific needs, etc.): INTERMEDIATE SIGNALS (SIGNAL HOUSE) Vironmental: NA	PR)
All Estate or ROW: ROADWAY = 80' (CENTER LINE OF ROW & SOUTH EOR) RAIL ROAD = 1000' 80' 200 FIRMEN BY CD. ENG. INVERTS / Drainage / Ballast Conditions: NA Padway and/or Sidewalks: NA Prouitry (e.g. reaches out to other crossings, specific needs, etc.): INTERMEDIATE SIGNALS (SIGNAL HOUSE) Vironmental: NA	PR)
All Estate or ROW: ROADWAY = GO' (CENTER LINE OF ROW @ SOUTH EOR) ROALROAD = HOO' 80' CONFIRMEN BY CO. ENG. INVERTS / Drainage / Ballast Conditions: NA Padway and/or Sidewalks: NA Provitry (e.g. reaches out to other crossings, specific needs, etc.): INTERMEDIATE SIGNALS (SIGNAL HOUSE) Vironmental: NA	(R)
ROADWAY = GO' (CENTER LINE OF ROW & SOUTH EOR) RAILROAD = 1000' 80' CONFIRMEN BY CO. ENG. Ilverts / Drainage / Ballast Conditions: NA Padway and/or Sidewalks: NA Proutity (e.g. reaches out to other crossings, specific needs, etc.): INTERMEDIATE SIGNALS (SIGNAL HOUSE) Vironmental: NA	(R)
ROADWAY = GO' (CENTER LINE OF ROW & SOUTH EOR) RAILROAD = 1000' 80' CONFIRMEN BY CO. ENG. Ilverts / Drainage / Ballast Conditions: NA Padway and/or Sidewalks: NA Proutity (e.g. reaches out to other crossings, specific needs, etc.): INTERMEDIATE SIGNALS (SIGNAL HOUSE) Vironmental: NA	(PR)
Inverts / Drainage / Ballast Conditions: WA Product of the conditions of the conditions of the conditions of the condition	
Inverts / Drainage / Ballast Conditions: WA Product of the conditions of the conditions of the conditions of the condition	
NA radway and/or Sidewalks: NA recuitry (e.g. reaches out to other crossings, specific needs, etc.): INTERMED/ATE SIGNALS (SIGNAL HOUSE) vironmental: NA	
vironmental: NA NA NA NA NA NA NA	
vironmental: NA NA NA NA NA NA NA	
reuitry (e.g. reaches out to other crossings, specific needs, etc.): INTERMEDIATE SIGNALS (SIGNAL HOUSE) vironmental: NA	
reuitry (e.g. reaches out to other crossings, specific needs, etc.): INTERMEDIATE SIGNALS (SIGNAL HOUSE) vironmental: NA	
reuitry (e.g. reaches out to other crossings, specific needs, etc.): INTERMEDIATE SIGNALS (SIGNAL HOUSE) vironmental: NA	
rcuitry (e.g. reaches out to other crossings, specific needs, etc.): INTERMEDIATE SIGNALS (SIGNAL HOUSE) vironmental: NA	
rcuitry (e.g. reaches out to other crossings, specific needs, etc.): INTERMEDIATE SIGNALS (SIGNAL HOUSE) vironmental: NA	
INTERMEDIATE SIGNALS (SIGNAL HOUSE) vironmental: NA	
INTERMEDIATE SIGNALS (SIGNAL HOUSE) vironmental: NA	
vironmental: NA	
vironmental: NA	
NA	
NA	
ther:	
ther:	

Diagnostic Team Recommendations	
	Quadrants Needed
Install/upgrade active devices	
Automatic Flashing Lights (AFLS)	
AFLS /Cants	
Ø AFLS / Gates	NE + SW QUADES
AFLS / Gates / Cants	
Bells / number	(TWO BELLS)
Upgrade circuitry / type	
☐ Sidelights	
Guardrail Needed	
☐ Install/Replace curb	
Bungalow placement & offset from rail & highway	
Other (define)	
Comments: CONSENSUS: "UPGRADE WA GATES"	ENING DEVICES TO LIGHTS AND
Install/upgrade traffic signal preemption	
☐ No improvements needed	
Other (define)	
Of O	<u>6</u> n
Field Dimensions	
Sidewalk NA Show North Direction	
Parkway	·
Roadway 10	
Roadway	
Parkway	
Sidewalk	

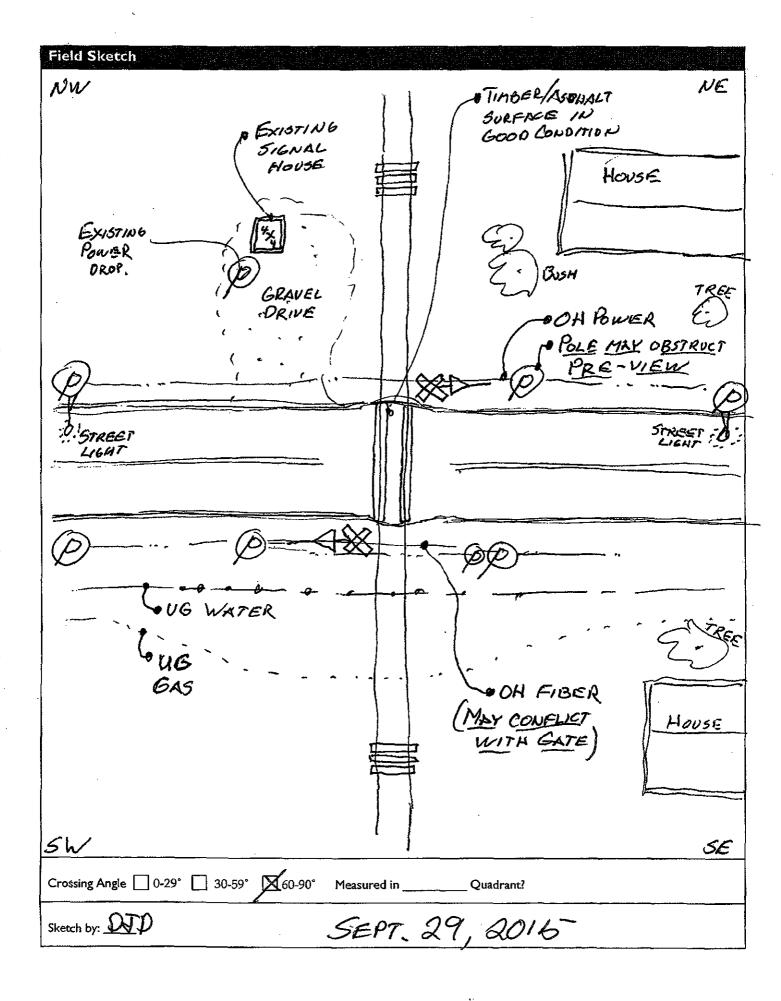


TABLE I

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
<i>7</i> 0	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 non-gated crossings 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.