

Memo

To: Docketing Division
From: Jill Henry, Rail Specialist, Rail Division
Cc: PUCO Legal Department
Date: 2/14/17

Re: PUCO Case No. 17-0458-RR-FED- In the Matter of a Request for the Installation of Active Warning Devices at the Chicago Ft. Wayne & Eastern Railroad Crossing, N. Rumbaugh Road/TR 232 DOT#532-695G, in Allen County, Ohio.

On January 6, 2017, the Ohio Rail Development Commission (ORDC) authorized funding for the Chicago Ft. Wayne & Eastern Railroad (CFE) to install lights and gates at N. Rumbaugh Road/TR 232 DOT#532-695G, in Allen County, Ohio. The crossing was surveyed on April 4, 2016 and found to warrant the upgrade. The electric utility provider for this crossing is American Electric Power- AEP.

The project will be paid for with federal funds and is actual cost. The plans and estimates for the project in the amount of \$172,300.00 have been approved. Construction may commence at once. **Staff requests a Finding & Order with completion of the project in nine months.** 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.

Please serve the following parties of record:

Chicago Ft. Wayne & Eastern
John Hilborn
Vice-President Engineering, Ohio Valley Region
Genesee & Wyoming
4349 Easton Way, Suite 110
Columbus, Ohio 43219

Ohio Rail Development Commission
Cathy Stout
Safety Manager
1980 West Broad Street
Mail Stop #3140
Columbus, Ohio 43223

Jackson Township, Allen County
Ted Smith
Trustee
P.O. Box 7158
Lafayette, Ohio 45854

Allen County Engineer
Brion Rhodes
County Engineer
1501 North Sugar Street
Lima, Ohio 45801

American Electric Power- AEP

**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: Allen County, TR 232, N. Rumbaugh Rd. / CFE
DOT# 532695G
PID# 103174
DATE: January 6, 2017

The Ohio Rail Development Commission (ORDC) established a Diagnostic Review Team Survey at the subject highway/railroad crossing location on 4/4/2016. The Public Utilities Commission of Ohio (PUCO) 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 railroad will be responsible 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 4/4/2016
CFE Force Account Estimate dated 11/18/2016
Proposed Crossing Layout – PE Approved Signal Display Layout

cc: Jill Henry, PUCO
ORDC Project Manager (file)

January 6, 2017

John Hilborn
Vice President-Engineering, Ohio Valley Region Railroads
Genesee & Wyoming/OHCR
4349 Easton Way, Suite 110
Columbus, OH 43219

Re: Construction Authorization, Grade Crossing Warning Device Improvement
Chicago, Fort Wayne, and Eastern Railroad
TR 232, N. Rumbaugh Rd., Allen County
DOT# 532695G; PID# 103174

Dear Mr. Hilborn:

The plan and estimate dated 11/18/2016 for the referenced project has been reviewed and is acceptable. The Chicago, Fort Wayne & Eastern Railroad may proceed with the construction of the proposed grade crossing warning device improvement 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. In accordance with the *ODOT Railroad Audit Circular No. 4 Subcontracted Costs for Railroads* please provide ORDC with all relevant bid documents and bid tabs pertaining to this project.

This 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 project costs are limited to \$172,300.00 and will be adjusted based on the provided bid tabulations if applicable. Additional costs must be approved in writing by the ORDC prior to being incurred. In an 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 construction authorization is contingent upon Chicago, Fort Wayne & Eastern Railroad (CFE) accepting the following instructions:

1. CFE must provide the results of the construction bids and tabulations to ORDC in advance of awarding any contracts for construction.
2. CFE'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, Mail Stop #3140, 1980 West Broad Street, 2nd Floor, Columbus Ohio 43223, or email don.damron@dot.ohio.gov, or by cell phone at 614-917-8466, office phone at 614-466-2509; and to the Public Utilities Commission of Ohio at George.martin@puc.state.oh.us (phone 614-752-9107). The Chicago, Fort Wayne & Eastern Railroad 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. CFE 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 Chicago, Fort Wayne & Eastern Railroad.
4. CFE's project foremen will notify Don Damron at 614-917-8466 (cell) or don.damron@dot.state.oh.us (email) of any changes in the scope of work, cost overruns, material changes, etc. which are not included in the approved plan and estimate and secure approval of same before the work is performed. Approval for cost overruns must be approved by the ORDC and the PUCO.
5. Open cut of roadways is *not permitted* except in unusual circumstances and must be coordinated with the local highway authority and preapproved by ORDC.
6. CFE will furnish two (2) copies of each partial bill to ORDC. Please find the attached ODOT Purchase Order to reference when billing.
7. CFE 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.
8. The installation of the new warning device system will include any ancillary work needed to make the warning devices function as designed and to satisfy MUTCD requirements.

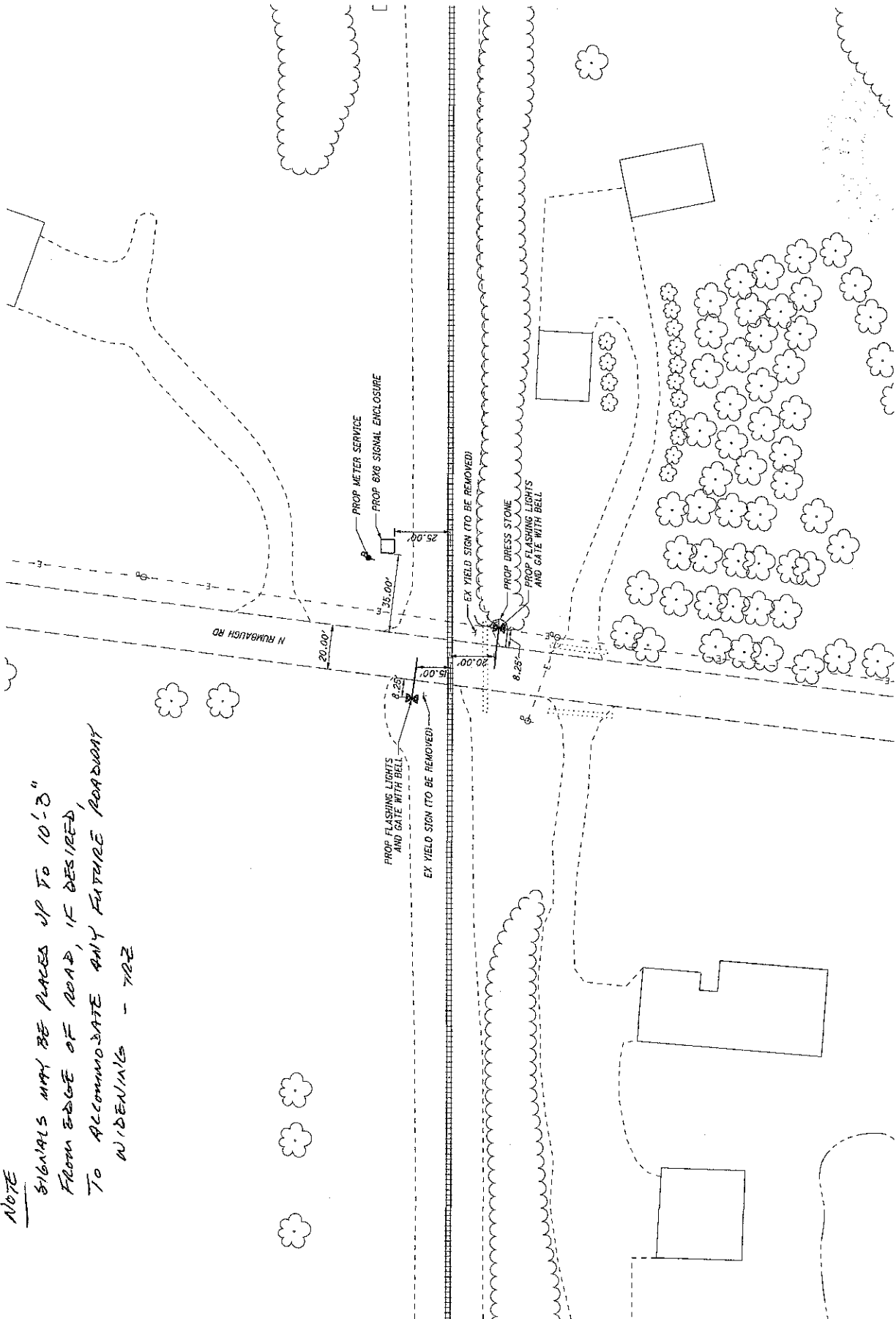
Thank you for your assistance with these matters.

Sincerely,



Donald J. Damron
Project Manager

C: Randall Schumacher, Supervisor, Rail Division, PUCO
Jill Henry, Rail Specialist, PUCO
Joseph S. Bolzenius, PE, PS, LEED AP, Patrick Engineering
Susan Arduini, ORDC
ORDC (file)



NOTE SIGNALS MAY BE PLACED UP TO 10' 3"
FROM EDGE OF ROAD, IF DESIRED,
TO ACCOMMODATE ANY FUTURE ROADWAY
WIDENINGS - WRE

APPROVED AS TO SIGNAL
DISPATCH CAPABILITY ONLY.

Thomas R. G.
12/8/16



Force Account Estimate - Rumbaugh Road (PID 103174)

CHICAGO, FT WAYNE & EASTERN RAILROAD (CFER)

Lima, OH (Allen County)

DOT#: 532695G
Railroad # 16CFER23R
RR MP: 252.87

SUMMARY

CROSSING WARNING SYSTEM	\$ 133,800.00
(Includes all labor, materials, shop wiring, and installation)	
CROSSING SURFACE/RESURFACE	\$ -
(Includes all labor, materials, shop wiring, and installation)	
TRACK GRADE AND REHABILITATION	\$ -
(Includes all labor, materials, and installation)	
RAILROAD ENGINEERING	\$ -
(Includes RAILROAD Labor for Reviewing Engineering Authorizations, Field Inspections and Administrative Labor)	
PRELIMINARY ENGINEERING	\$ 8,000.00
(Includes CONTRACT Labor for all Engineering, Agency Coordination, and Project Management)	
CONSTRUCTION ENGINEERING	\$ 16,000.00
(Includes CONTRACT Labor for all Engineering, Agency Coordination, and Project Management)	
CONSTRUCTION ENGINEERING INSPECTION	\$ 5,500.00
(Estimated Construction Engineering Inspection cost)	
UTILITY CROSSING	\$ -
(0 new utility crossings @ \$4000 per crossing, includes application, engineering review, and right of entry)	
FLAGGING SERVICES	\$ 5,000.00
(Estimated Flagging Services cost based on 5 days @ \$1000 per day)	
AC POWER SERVICE	\$ 4,000.00
(Includes all Coordination and Power Service Charges not included in other costs)	
OTHER (Description Required)	\$ -
TOTAL ESTIMATE COST	\$ 172,300.00 (USD)

Estimate Prepared By: J. Bolzenius, PE
Date: 11/18/2016

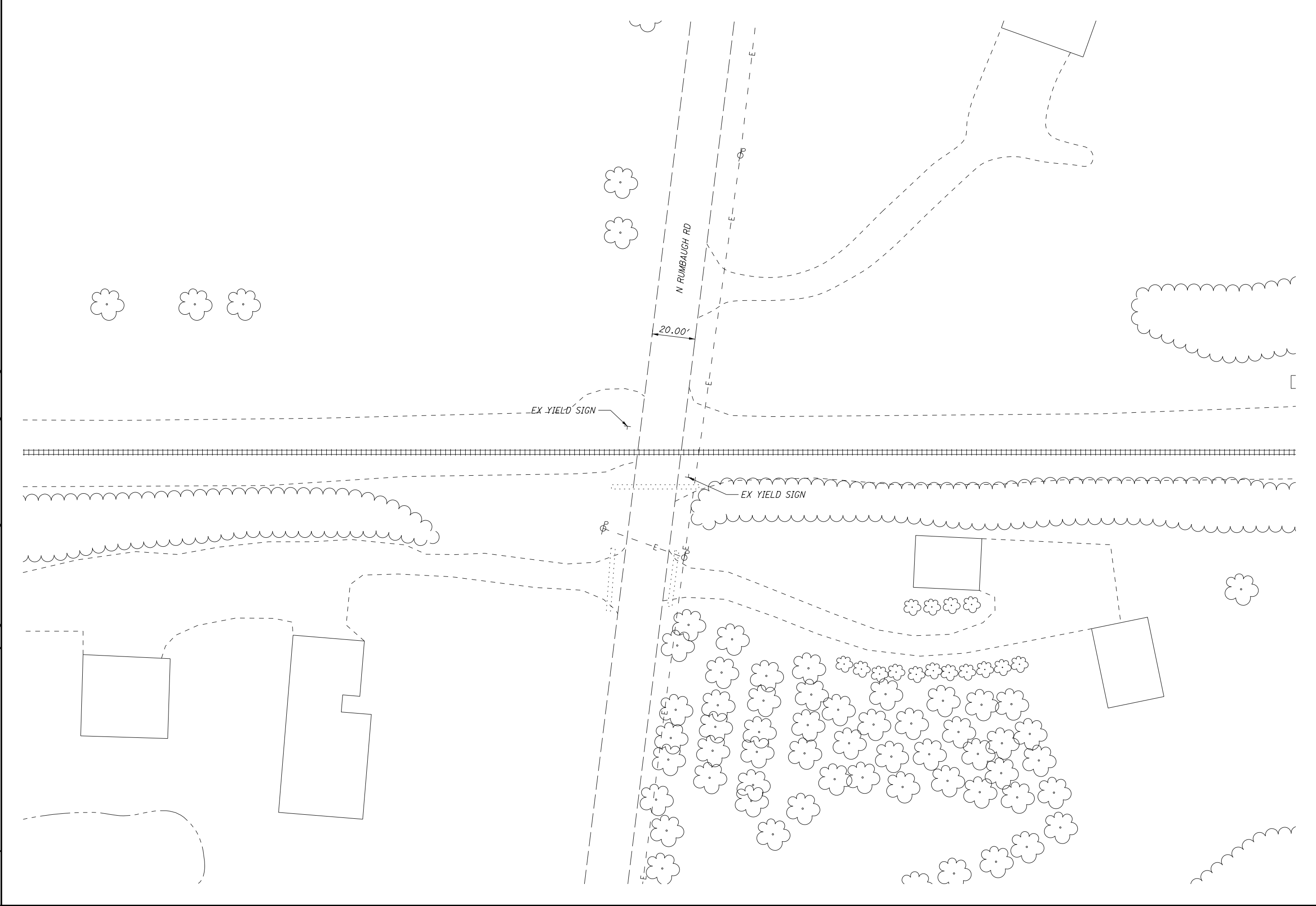
NOTE:

This Estimate has been prepared based on site conditions, anticipated work duration periods, material prices, labor rates, manpower, resource availability, and other factors known as of the date prepared. The actual cost for Railroad work may differ based upon the agency's requirements, their contractors work procedures, and/or other conditions that become apparent once construction commences or during the progress of the work. If any extended time elapses from the date of this Estimate, the Railroad will reserve the right to update the estimate to current price values, and require agency's approval before any work by Railroad will commence.

Preliminary Crossing Warning System Estimate

Crossing Name: Rumbaugh Rd
Railroad: CFER
Town, State (County): Lima, OH (Allen)
Railroad #: 16CFER23R
FRA#: 532695G
Patrick Engineering #: 21677.81

ITEM	UNIT COST	UNITS	TOTAL
6'x6' Wired House with Equipment	\$ 49,500.00	1 EA	\$ 49,500.00
Gate/Flasher Assembly	\$ 12,000.00	2 EA	\$ 24,000.00
		SUBTOTAL	\$ 73,500.00
Field Installation Materials @ 30%			\$ 22,100.00
Freight & Handling			\$ 2,000.00
		TOTAL MATERIALS	\$ 97,600.00
Foreman (1)	\$ 60.00	40 Hrs	\$ 2,400.00
Lead Signalman (2)	\$ 45.00	80 Hrs	\$ 3,600.00
Signalman (2)	\$ 35.00	80 Hrs	\$ 2,800.00
		TOTAL INSTALLATION & WIRING	\$ 8,800.00
Equipment per day	\$ 800.00	5 Day	\$ 4,000.00
Pipe Push	\$ 50.00	120 LF	\$ 6,000.00
Bungalow Wiring and Test	\$ 5,800.00	3 Day	\$ 17,400.00
		TOTAL EQUIPMENT	\$ 27,400.00
		TOTAL CROSSING WARNING SYSTEM	\$ 133,800.00









OHIO RAIL DEVELOPMENT COMMISSION

Mail Stop #3140, 1980 West Broad Street, Columbus OH 43223

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

August 12, 2016

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

RE: Grade Crossing Warning Device Improvements,
Allen County, TR 232, N. Rumbaugh Rd., DOT# 532695G, PID# 103174

Dear Mr. Hilborn:

A diagnostic review was held at the above grade crossing on 4/4/2016. The crossing has been recommended for the installation of automatic flashing lights and gates.

Genesee & Wyoming/Chicago, Fort Wayne and Eastern Railroad (CFE), is authorized to proceed with the engineering design, site plans and cost estimates for this project. This authorization is made with the stipulation and understanding that any field work needs prior approval before 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.

The ORDC is not requesting that the PUCO issue an Order at this time. When the ORDC receives the Engineering Design and Site Layout Plan it will be evaluated and a construction-only Order will be requested from PUCO. Please submit the Engineering Design to ORDC within 90 days of receipt of this letter.

The diagnostic review form is attached. Please note any recommendations (page 5), if any, made by the team with regard to requirements for this location. Any minor roadway or sidewalk work necessary for MUTCD compliance should be incorporated into the Site Layout Plan and such costs will flow through the railroad reimbursement process.

The ORDC Project Manager for this project is Don Damron. Don can be reached at 614-466-2509 (office), or 614-917-8466 (cell), or don.damron@dot.state.oh.us, if you have any questions.

Sincerely,

Donald J. Damron
Project Manager

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

Attachments: Diagnostic Review Team Survey dated 4/4/2016
ORDC/NS Letter Agreement dated 5/31/2016



www.rail.ohio.gov

phone: 614.644.0306

IMPROVING RAIL TODAY FOR TOMORROW'S ECONOMY



OHIO RAIL DEVELOPMENT COMMISSION

Mail Stop #3140, 1980 West Broad Street, Columbus OH 43223

John R. Kasich, Governor • Mark Policinski, ORDC Chairman

May 31, 2016

Mr. John Hilborn
Vice President-Engineering, Ohio Valley Region Railroads
Genesee & Wyoming/CFE
4349 Easton Way, Ste. 110
Columbus, OH 43219

Subject: Grade Crossing Warning Device Improvements
Allen County—TR 232, N. Rumbaugh Rd., DOT # 532695G, PID 103174.

Dear Mr. Hilborn:

A diagnostic review was conducted at the subject grade crossing on 4/4/2016. As a result of the review, the devices will be upgraded to automatic flashing lights and roadway gates.

This project shall be completed in compliance with Agreement No. 37-C dated August 27, 2004, entered into by the State of Ohio and Chicago Ft. Wayne & Eastern Railroad (CFE) and incorporated as if fully rewritten herein. This construction shall also meet the general terms and conditions under the Fixing America's Surface Transportation Act (FAST) and subsequent amendments and the State of Ohio's Federally Funded Warning Device Program.

Preliminary engineering (PE) and construction costs shall be borne one hundred percent (100%) by ORDC. Reimbursable costs will be limited by the ORDC based on approved estimates and bid tabulations, if applicable. These limits will be quantified by the ORDC in its construction authorization to CFE and may be amended by the ORDC based on revised estimates and bid tabulations.

This Letter Agreement and the approved plans constitute the scope of the project. CFE shall notify ORDC in writing of any changes in the scope of work which are not in the approved plans and estimates and secure approval in writing of same before the work is performed.

PE will not be commenced by CFE prior to ORDC issuing a PE authorization. PE and project estimate will be submitted by CFE to ORDC within ninety (90) days or other time specified by ORDC in the PE authorization. Construction will not be commenced by CFE prior to ORDC issuing a construction authorization. Construction will be completed by CFE within nine (9) months or other time specified in the time specified by ORDC in the construction authorization.

Please indicate your acceptance of the terms and conditions of this Letter Agreement by signing and returning one (1) copy to me at the address listed above and retain a copy for your files. This Agreement may be executed in one or more counterparts, each of which shall be deemed to be a duplicate original, but all of which taken together shall be deemed to constitute a single Agreement.

Sincerely,

Matthew R. Dietrich
Executive Director



www.rail.ohio.gov

phone: 614.644.0306

IMPROVING RAIL TODAY FOR TOMORROW'S ECONOMY

Genesee & Wyoming CFE

By: Charles C. Stiller

Title: Asst. Treasurer

Date: 7-27-16

ALL PR 252 N. Rumbough Rd. EID 10374 CFE

Sam R. Ly



Diagnostic Review Team Survey

Reason for Survey:

(e.g. formula, accident, constituent, etc.)

Constituent - AOT

Date: 4/4/2016

RANK: 1480

Location Data

Street or Road Name:

N. Rumbaugh Rd.

Route/Road Number

TR 232

(i.e. Twp., Co., SR or US)

US DOT No.:

532695G

County:

ALL

Township:

Jackson

City:

(In or Near)

Near La Fayette

Railroad
Name:

Chicago Ft. Wayne & Eastern

Railroad
Division:

Midwest Region

Branch/Line
Name:

Nearest RR

Timetable Station:

La Fayette

RR Milepost:

252.87

On-Site Review Team

(Include: Name - Organization - Phone Number - Email)

1. DON DAMRON, ORDC, 614-917-8466, don.damron@dot.ohio.gov.
2. TED SMITH, TRUSTEE - 419-230-5130 SMITHTEDOMAS@EMBARGMAIL.COM
3. RANDY ACKERMAN 419-231-2205 RANDYACKERMAN2205@GMAIL.COM
4. Chad Staley 419-649-2651
5. Dan Hanzora 419-236-2996 dhanzora@allencounty.ohio.com
6. Keith Wilson k.wilson@perc.state.oh.us
- 7.
- 8.
- 9.

Existing Traffic Control Devices

Type of Warning Devices	Installed?		Quantity/Comments	
Advance Warning Signs (condition?)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
'Stop' Signs	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		
'Stop Ahead' Signs	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		
Pavement Markings (condition?)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Crossbucks	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Number of Tracks Signs	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		
Inventory Tags	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Interconnected Highway Traffic Signal	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		
Mast-Mounted Flashing Lights	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		
Cantilever Flashing Lights	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Number:	Length:
Side Lights	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		
Automatic Gates	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Number:	Length:
Bells	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Number:	
Sidewalk Gate Arms	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		
'No Turn' Signs	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		
Illumination	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		
Is crossing flagged by train crew?	<input type="checkbox"/> Yes	<input type="checkbox"/> No		
Other	<input type="checkbox"/> Yes	<input type="checkbox"/> No		

Safety Data (Obtain crash reports, if possible, prior to review)		
	Initial Information (from database)	Revised
Number & dates of crashes in previous 5 years	0 (7/16/2000)	
Hazard Ranking	1480 Date Run: 2/24/2016	
Railroad Data		
Railroad Characteristics	Initial Information (from database)	Revised
Total trains per day	4	
< 1 per day		
Day thru trains	2	
Night thru trains	1	
Daytime switching movements		
Nighttime switching movements	1	
Total number of tracks	1	
Number of main tracks	1	
Number of other tracks		
Maximum train speed	40	
Typical train speed	40	
Amtrak		
If non-gated crossing, is clearing sight distance adequate in all quadrants? (See Table 1) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 960' If multiple tracks, can two trains occupy crossing at the same time? <input type="checkbox"/> Yes <input type="checkbox"/> No REQUIRED Can one train block the motorists' view of another train at crossing? <input type="checkbox"/> Yes (Explain below) <input type="checkbox"/> No Can one or more tracks be eliminated through the crossing? <input type="checkbox"/> Yes <input type="checkbox"/> No Are there other track(s) crossing this same roadway within 100 ft of this crossing? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, Crossing DOT #(if different) _____ If yes, distance _____ (take measurement between track centerlines at closest point along roadway)		
Roadway Data		
Local Highway Authority: Jackson Township		
Roadway Characteristics	Initial Information (from database)	Revised
Average daily traffic	710 (2015)	OK
Highway paved	X Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Roadway Surface: <input checked="" type="checkbox"/> Blacktop <input type="checkbox"/> Gravel <input type="checkbox"/> Concrete <input type="checkbox"/> Other _____		
Roadway width: 20 ft.		
Number of highway lanes	2	OK
Urban or Rural	Rural	OK
Vehicle Speed: 55 MPH		
School Bus Operation: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <u>2</u> Amount <u>2-AM ~ 2-PM</u>		
Hazardous Materials Trucks: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <u>.05</u> Amount		
Shoulders: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes		
Is the shoulder surfaced? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes		
Is there existing guardrail along roadway in crossing vicinity? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes		
Is stopping site distance adequate? (See Table 2) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If no, deficient approach(es) _____		

55MPH = 570'

Quadrant _____ Curb and Gutter: <input type="checkbox"/> Functional (Curb height = 4" or more) <input type="checkbox"/> Non-functional (Curb height = Less than 4") <input checked="" type="checkbox"/> None	Quadrant _____ Curb and Gutter: <input type="checkbox"/> Functional (Curb height = 4" or more) <input type="checkbox"/> Non-functional (Curb height = Less than 4") <input checked="" type="checkbox"/> None
Pedestrians: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	
Is sidewalk present? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	
Is there a nearby intersection that could cause queuing over the crossing? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes If yes, Distance _____ Is this intersection signalized? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Are the signals currently interconnected with the existing crossing warning devices? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Is there a 'Do not Stop on Track' sign? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	
Is a roadway improvement project (e.g. widening, turn lanes, nearby new or upgraded traffic signal, sidewalk) planned at or near this location in the foreseeable future? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes If yes, Improvement type _____ Lead Agency _____ Timeline/completion - _____	
Is it the consensus of the Diagnostic Review Team that this is a potential closure project? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Explain reasons: _____	
Type of Development	
<input checked="" type="checkbox"/> Open Space <input type="checkbox"/> Industrial <input checked="" type="checkbox"/> Residential	<input type="checkbox"/> Institutional <input type="checkbox"/> Commercial Location of nearby schools: <u>SR 309 - MARBLETON RD</u>
Utility Information	
Is commercial power available? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes Utility Provider (Company Name) <u>AEP</u> Phone Number _____ Nearest Available Power Source <u>AT CROSSING</u>	
What other utilities are present? (add locations to sketch) <input type="checkbox"/> Gas <input type="checkbox"/> Cable <input type="checkbox"/> Telephone <input type="checkbox"/> Fiber Optic Cable <input type="checkbox"/> Petroleum <input type="checkbox"/> Water <input type="checkbox"/> Sanitary Sewer <input type="checkbox"/> Other _____	
Is(are) there potential utility conflict(s) <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Unknown	
Comments: _____	

Potential Red Flags / Project Challenges

Traffic Signal Preemption (include traffic signal intersection name and LHA with jurisdiction over traffic signal, if known):

NA

Crossing Consolidation or Closure:

NA

Real Estate or ROW:

NA

Culverts / Drainage / Ballast Conditions:

NA

Roadway and/or Sidewalks:

NA

Circuitry (e.g. reaches out to other crossings, specific needs, etc.):

NA

Environmental:

NA

Other:

Diagnostic Team Recommendations

Quadrants Needed

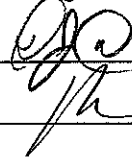
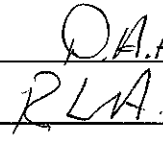
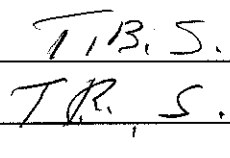
- ☒ Install/upgrade active devices
- ☐ Automatic Flashing Lights (AFLS)
- ☐ AFLS / Cants
- ☒ AFLS / Gates
- ☐ AFLS / Gates / Cants
- ☐ Bells / number
- ☐ Upgrade circuitry / type
- ☐ Sidelights
- ☐ Guardrail Needed
- ☐ Install/Replace curb
- ☐ Bungalow placement & offset from rail & highway
- ☐ Other (define)

Comments:

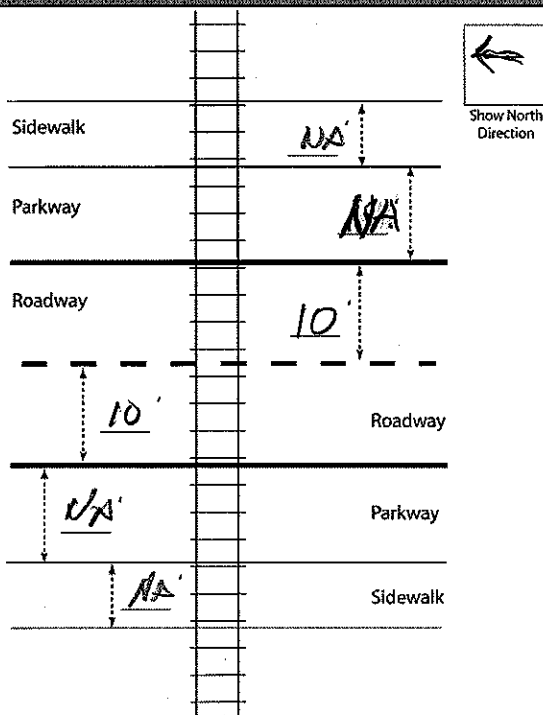
CONSENSUS: UPGRADE TO LIGHTS AND GATES.
 * NO RAILROAD REPRESENTATION!

- ☐ 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):

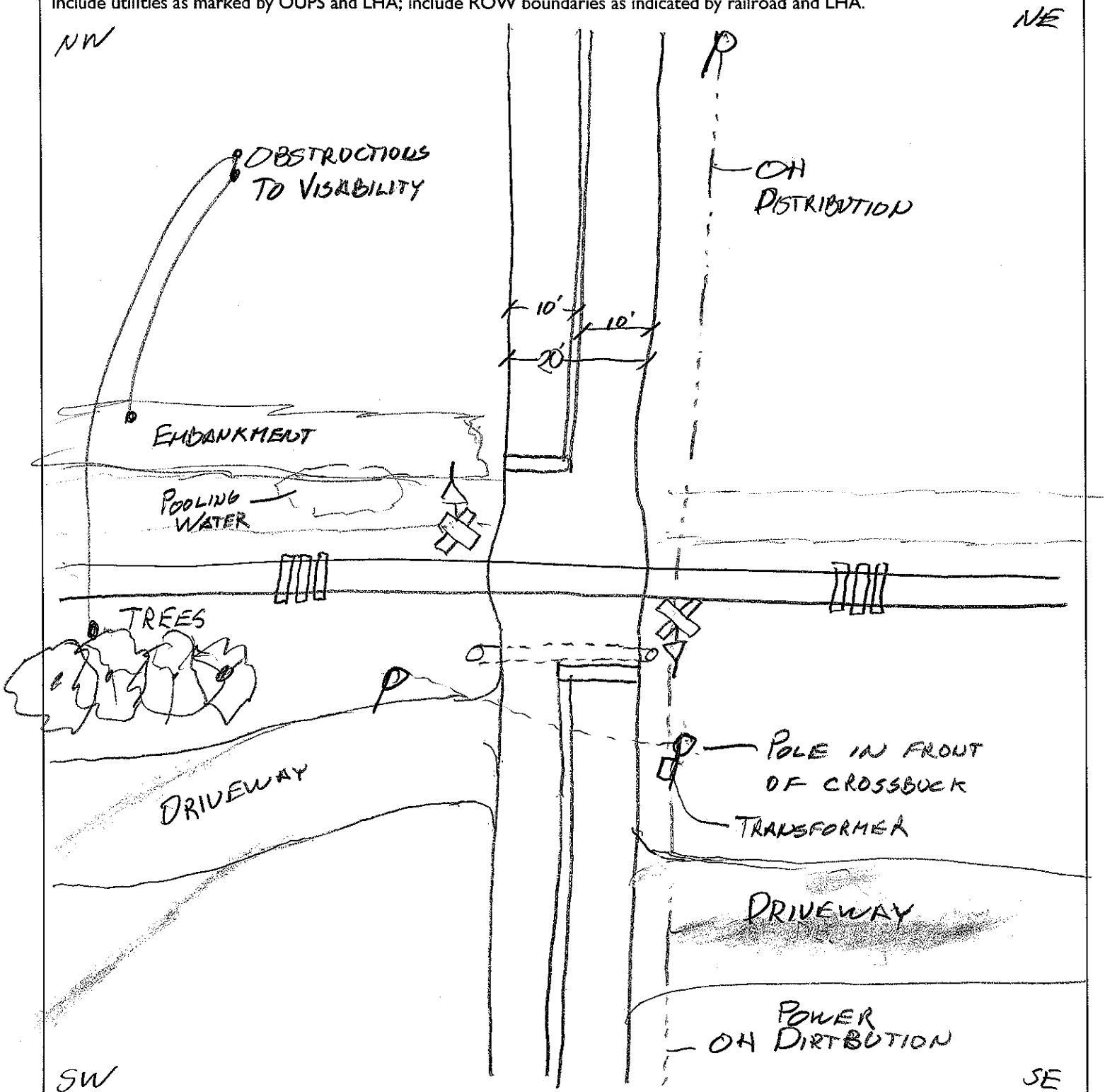




Field Dimensions



Field Sketch

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 SW Quadrant?

Sketch by: DJD

4-2-2016

TABLE 1

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 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)

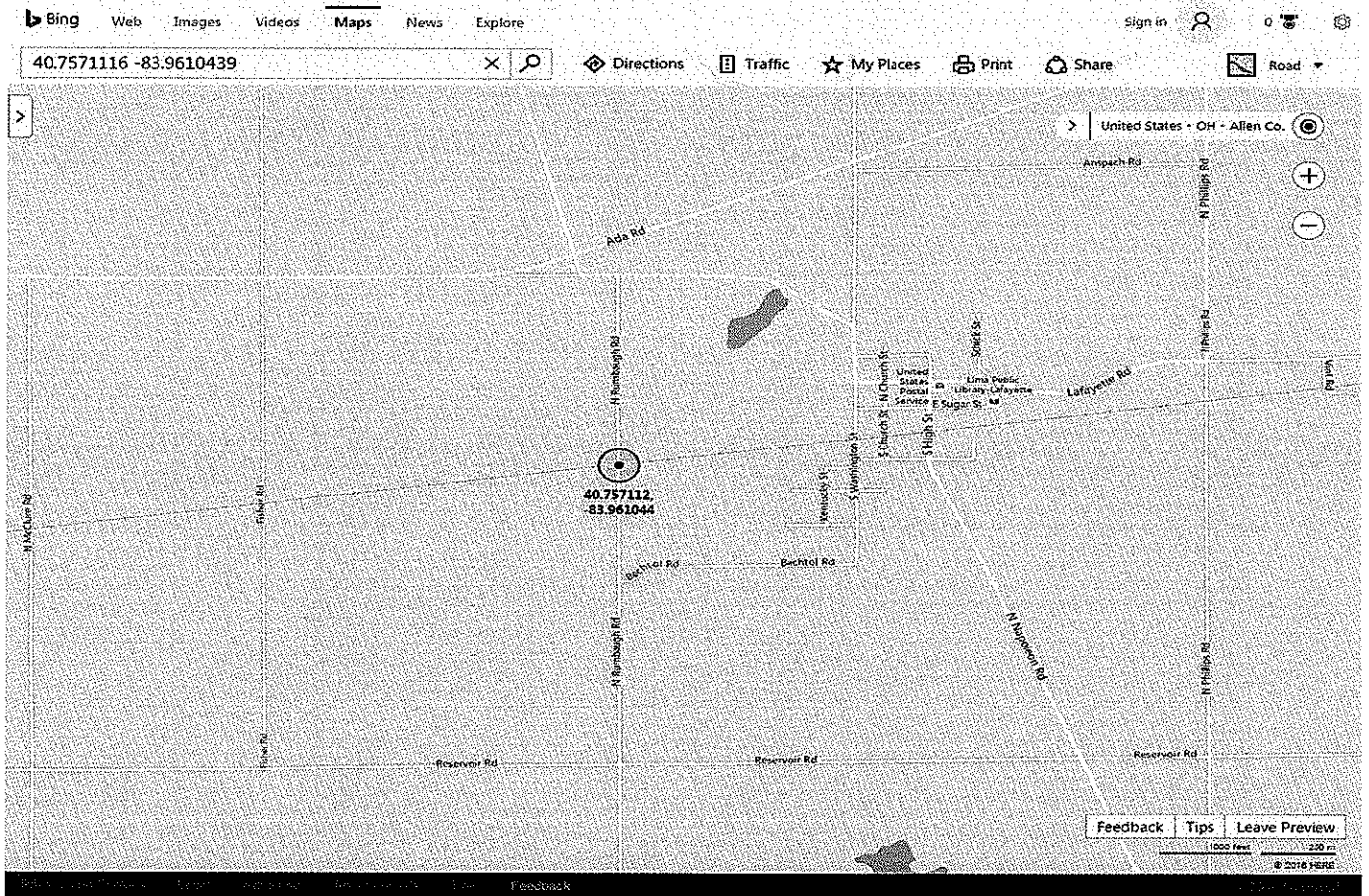
Notes:

All calculated distances are rounded up to the next higher 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.

ALL – TR 232 – N. Rumbaugh Rd - DOT # 532695G



This foregoing document was electronically filed with the Public Utilities

Commission of Ohio Docketing Information System on

2/15/2017 9:42:19 AM

in

Case No(s). 17-0458-RR-FED

Summary: Memorandum In the Matter of a Request for the Installation of Active Warning Devices at the Chicago Ft. Wayne & Eastern Railroad Crossing, N. Rumbaugh Road/TR 232 DOT#532-695G, in Allen County, Ohio. electronically filed by Mrs. Jill A Henry on behalf of PUCO/Rail Division