Public Utilities Commission of Ohio

Memo

To: Docketing Division

From: Jill Henry, Rail Specialist, Rail Division

Cc: PUCO Legal Department

Date: 12/28/16

Re: PUCO Case No. 16-2438-RR-FED- In the Matter of a Request for the Installation of Active Warning Devices at IORY Railroad Crossings, DOT#151-970W, Cuba Road, & DOT#151-957H, Doan Street, in Clinton County, Ohio.

On August 22, 2016, the Ohio Rail Development Commission (ORDC) authorized funding for Indiana & Ohio Railway (IORY) to install lights and gates at the Cuba Road, DOT#151-970W, and Doan Street, DOT#151-957H, grade crossings in Clinton County, Ohio. The crossings were surveyed on April 25, 2016 and were found to warrant the upgrades. The electric utility provider for this crossing is Dayton Power and Light.

The projects will be paid for with federal funds and are actual cost. The plans and estimates for the projects in the amount of \$200,000 for Cuba Road and \$190,000 for Doan Street (subject to revision after bid tabulation) 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 <u>railroad will be responsible</u> 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:

Indiana & Ohio Railway John Hilborn Vice-President Engineering, Ohio Valley Region 4349 Easton Way, Suite 110 Columbus, Ohio 43219

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

Clinton County Engineer Adam Fricke Deputy Engineer 1326 Fife Avenue Wilmington, Ohio 45177

City of Wilmington Brian Shidaker Director of Public Service/Public Safety 69 N. South Street Wilmington, Ohio 45177

Dayton Power & Light

OHIO RAIL DEVELOPMENT COMMISSION INTER-OFFICE COMMUNICATION

TO: Randall Schumacher, Supervisor, Rail Division, PUCO

FROM: Cathy Stout, Manager, Safety Section, ORDC

BY: Greg Gronbach, Project Manager, Safety Section, ORDC

SUBJECT: Clinton County, Cuba Rd, IORY DOT # 151970W, PID 103318

DATE: December 12, 2016

The Public Utilities Commission of Ohio (PUCO) established a diagnostic survey at the subject location on April 25, 2016. The Ohio Rail Development Commission (ORDC) attended the review. The Diagnostic Team recommended the improvement of warning devices to flashing lights and roadway gates. Copies of the diagnostic review form and the plan and estimate are attached.

PE has already been provided by the railroad. ORDC approves the site plans and estimates as provided. Please issue a construction-only order for the project outlined above. This 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: Jill Henry, 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

December 12, 2016

John Hilborn, PE Vice President-Engineering, Ohio Valley Region Railroads Indiana & Ohio Railroad (IORY) 4349 Easton Way, Suite 110 Columbus, OH 43219

RE:

Railroad PE Authorization

Clinton County, Cuba Rd, IORY DOT # 151970W, PID 103318

Dear Mr. Hilborn:

The plan and estimate dated November 18, 2016, for the referenced project has been reviewed and is acceptable. Indiana & Ohio Railroad (IORY) 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 \$200,000.00 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 Indiana & Ohio Railroad (IORY) accepting the following instructions:

- 1. Indiana & Ohio Railroad (IORY)'s project foreman will furnish written notification five (5) working days prior to the date work will start at the project site to Greg Gronbach, ORDC, email Greg.Gronbach@dot.ohio.gov, and to the Public Utilities Commission of Ohio at Jill.Henry@puc.state.oh.us. Indiana & Ohio Railroad (IORY)'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. Indiana & Ohio Railroad (IORY) 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 Indiana & Ohio Railroad (IORY).



www.rail.ohio.gov phone: 614.644.0306

IMPROVING RAIL TODAY FOR TOMORROW'S ECONOMY

- 3. Indiana & Ohio Railroad (IORY)'s project foremen will notify Greg Gronbach at 614-395-1824 (telephone) or Greg.Gronbach@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. 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. Indiana & Ohio Railroad (IORY) will furnish two (2) copies of each partial bill to ORDC. Please find the enclosed ODOT Purchase Order to reference when billing.
- 6. Indiana & Ohio Railroad (IORY) 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.

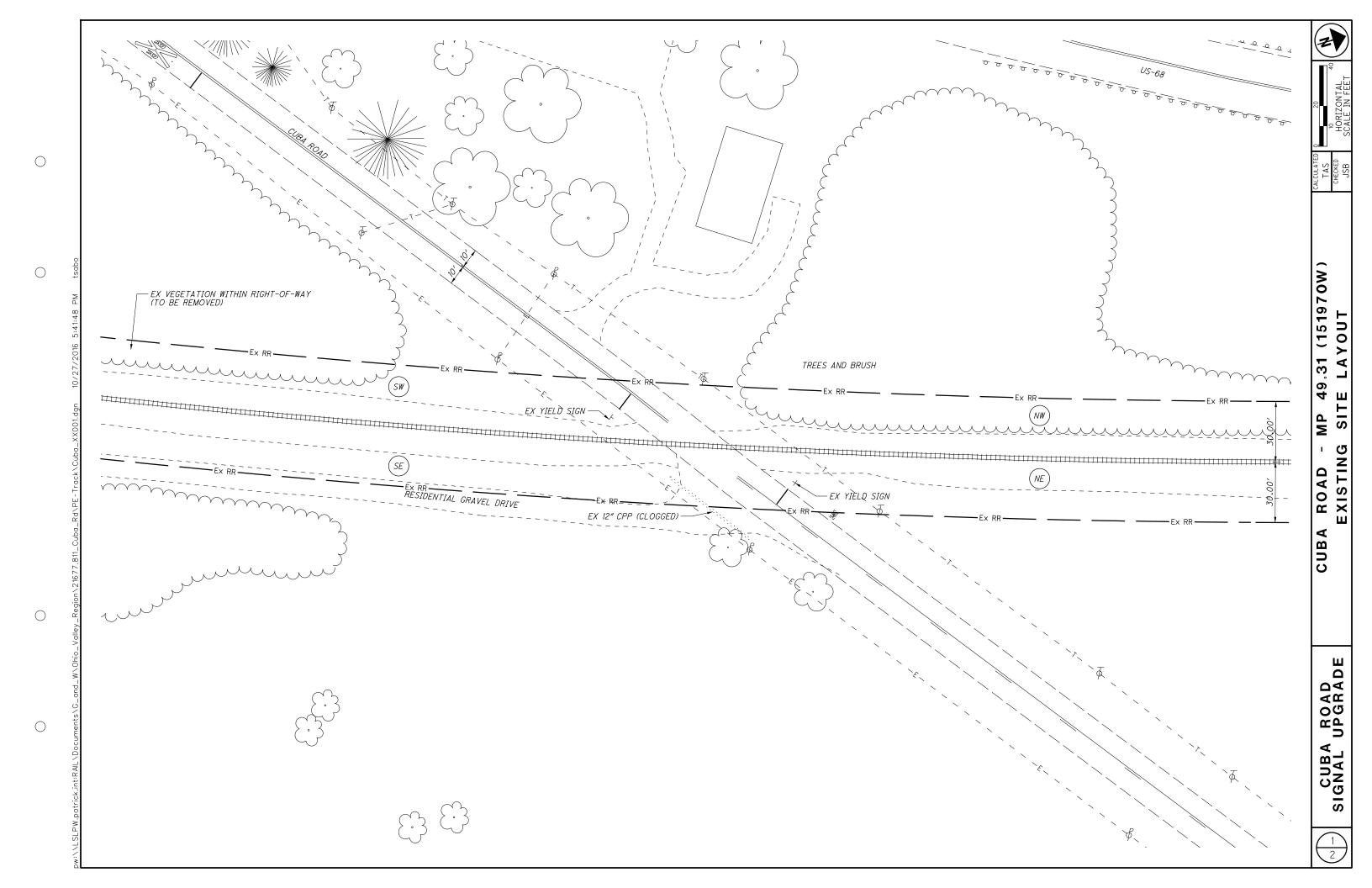
Sincerely,

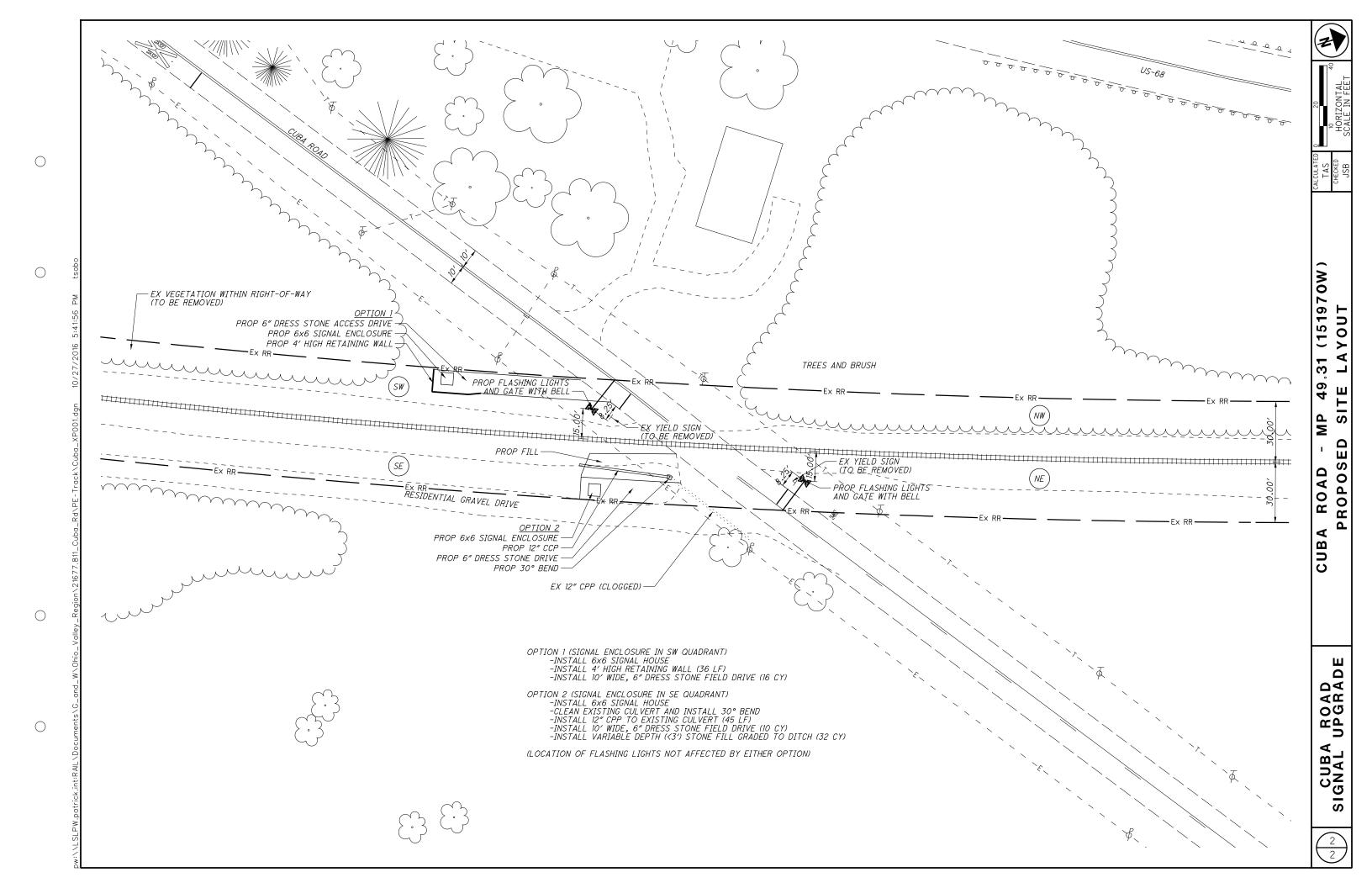
Greg Gronbach

Project Manager

C: Randall Schumacher, Rail Division Supervisor, PUCO
Jill Henry, Rail Specialist, PUCO
Susan Arduini, ORDC

ORDC (file)









Force Account Estimate - Cuba Road (PID 103318)

INDIANA & OHIO RAILWAY COMPANY (IORY)

Blanchester, OH (Clinton County)

DOT#: 151970W Railroad # 16IORY23R RR MP: 49.31

SUMMARY

CROSSING	WARNING SYSTEM	\$ 142,100.00	
	(Includes all labor, materials, shop wiring, and installation for signal house location option 1)		
CROSSING	SURFACE/RESURFACE	\$ -	
	(Includes all labor, materials, shop wiring, and installation)		
TRACK GRA	ADE AND REHABILITATION	\$ -	
	(Includes all labor, materials, and installation)		
RAILROAD	ENGINEERING	\$ -	
	(Includes RAILROAD Labor for Reviewing Engineering Authorizations, Field Inspections and Administrative Labor)		
PRELIMINA	RY ENGINEERING	\$ 8,000.00	
	(Includes CONTRACT Labor for all Engineering, Agency Coordination, and Project Management)		
CONSTRUC	TION ENGINEERING	\$ 16,000.00	
	(Includes CONTRACT Labor for all Engineering, Agency Coordination, and Project Management)		
CONSTRUC	TION ENGINEERING INSPECTION	\$ 5,500.00	
	(Estimated Construction Engineering Inspection cost)		
UTILITY CR	OSSING	\$ -	
	(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 (Des	scription Required)	\$ -	
TOTAL E	STIMATE COST	\$ 180,600.00	(USD)
Estimate Pre			
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.

Crossing Name: Cuba Rd - 1

Railroad: IORY

Town, State (County): Blanchester, OH (Clinton)

Railroad #: 16IORY23R

FRA#: 151970W

Patrick Engineering #: 21677.811

ITEM	UN	IIT COST	UNITS	TO	TAL
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
Additional Fill Material	\$	25.00	16 CY	\$	400.00
Aluminum Retaining Wall	\$	150.00	36 LF	\$	5,400.00
Heavy Brush and Tree Removal	\$	2,500.00	1 LS	\$	2,500.00
			SUBTOTAL	\$	81,800.00
Field Installation Materials @ 30%				\$	24,600.00
Freight & Handling				\$	2,000.00
			TOTAL MATERIALS	\$	108,400.00
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 INS	STALLATION & WIRING	\$	8,800.00
Equipment per day	\$	800.00	5 Day	\$	4,000.00
Pipe Push	\$	50.00	70 LF	\$	3,500.00
Bungalow Wiring and Test	\$	5,800.00	3 Day	\$	17,400.00
			TOTAL EQUIPMENT	\$	24,900.00

Prepared By: T. Sabo 11/18/2016

TOTAL CROSSING WARNING SYSTEM \$ 142,100.00

Crossing Name: Cuba Rd - 2

Railroad: IORY

Town, State (County): Blanchester, OH (Clinton)

Railroad #: 16IORY23R FRA#: 151970W

Patrick Engineering #: 21677.811

ITEM	UN	IIT COST	COST UNITS		TAL
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
Additional Fill Material	\$	25.00	42 CY	\$	1,050.00
18" CPP Culvert	\$	60.00	45 LF	\$	2,700.00
			SUBTOTAL	\$	77,250.00
Field Installation Materials @ 30%				\$	23,200.00
Freight & Handling				\$	2,000.00
			TOTAL MATERIALS	\$	102,450.00
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 INS	STALLATION & WIRING	\$	8,800.00
Equipment per day	\$	800.00	5 Day	\$	4,000.00
Pipe Push	\$	50.00	70 LF	\$	3,500.00
Bungalow Wiring and Test	\$	5,800.00	3 Day	\$	17,400.00
			TOTAL EQUIPMENT	\$	24,900.00

TOTAL CROSSING WARNING SYSTEM \$ 136,150.00

Prepared By: T. Sabo 11/18/2016



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/IORY 4349 Easton Way, Ste. 110 Columbus, Oh 43219

RE: Clinton County, Cuba Rd/CR8, DOT# 151970W, PID 103318

Dear Mr. Hilborn:

A diagnostic review was held at the above grade crossing on April 25, 2016. The crossing has been recommended for the installation of lights and gates.

Genesee & Wyoming/IORY is authorized to proceed with the site plans and cost estimates (PE) or bid package 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 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 work necessary for MUTCD compliance should be incorporated into the PE and such costs will flow through the railroad reimbursement process.

The Project Manager for this project is Greg Gronbach. Greg Gronbach can be reached at (614) 395-1824, or Greg.Gronbach@dot.ohio.gov, if you have any questions.

Sincerely,

Greg Gronbach Project Manager

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

Attachment: 1 (diagnostic review form)



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IMPROVING RAIL TODAY FOR TOMORROW'S ECONOMY

OHIO RAIL DEVELOPMENT 900 COMMISSION

Reason for Survey:

Ohio Rail Development Commission Mail Stop 3140, 1980 W. Broad Street, Columbus, OH 43223

Diagnostic Review Team Survey

Date:

4/25/2016

(e.g. formula, accident, constituent, etc.)	rmula Spring Pick	Date: 4/25/2016
Location Data	设度等的特别的	
Street or Road Name: Cuba Road		
Route/Road Number (i.e. Twp., Co., SR or US)		US DOT No.: 151970W
County: CLI Township:	City: (In or Near)	Near Midland
Railroad Name: Indiana & Ohio Railway	Railroad Louisville	Branch/Line Name:
Nearest RR Timetable Station: Midland CY		RR Milepost: 49.3 l
On-Site Review Team		
(Include: Name - Organization - Phone Number -	Email\	William Milliam Committee
1. GREG. GRONBACH ORD		GAFT GLONBACH DOT OND EN
2. GEORGE MARTIN P	100 (111 757	GREG. GLONBACH Q DOT. OHIO. GOD
		110+
3. ADAM FRICKE CLINTUN C	UVNTY 937.382-2018 AF	RICKE @ CLINTON COUNTYENGINGS, OKE
4		
5		
6		
7		
8		
9		
Existing Traffic Control Devices		
Type of Warning Devices	Installed?	Quantity/Comments
Type of Warning Devices Advance Warning Signs (condition?)	¥Yes □ No	Quantity/Comments G1000
Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs	Yes □ No □ Yes ☑ No	
Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs		GOOD
Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?)		
Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks	Yes	GOOD
Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs	Yes	GOOD
Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs Inventory Tags	Yes	GOOD
Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs	Yes	GOOD
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	GOOD
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	G100D
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	G100D G100D
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	Yes	Crool
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	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	Yes	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 Illumination	Yes	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	Yes	Number: Length:

	Safety Data (Obtain cr	ash repo	rts, if possible, prior to review)				
			ial Information (from database)	Revised			
	Number & dates of crashes 0 in previous 5 years						
	Hazard Ranking	1245	Date Run: 3/30/2016				
	Railroad Data						
	Railroad Characteris	tics	Initial Information (from database)	Revised			
	Total trains per day		6 V 18	MAY BE HIGHER-ADAM W			
	< I per day			CLINTON CO WILL CONFIRM			
	Day thru trains		4				
?	Night thru trains		2				
1	Daytime switching moveme	nts					
	Nighttime switching movem	ents					
	Total number of tracks		1				
	Number of main tracks		1				
	Number of other tracks						
	Maximum train speed	<u> </u>	40	·			
	Typical train speed		40				
	Amtrak						
	If non-gated crossing, is clearing	g sight distar	nce adequate in all quadrants? (See Table 1)	X Yes □ No			
		ng this same	ough the crossing? Yes No	Yes KINo			
	If yes, distance		asurement between track centerlines at close	est point along roadway)			
	Roadway Data						
	Local Highway Authority:		Clinton County	Medical Control of the Control of th			
	Roadway Characteris	tics	Initial Information (from database)	Revised			
?	Average daily traffic		460 (2008)				
	Highway paved		X Yes	Yes No			
	Roadway Surface: 📈 Blacktop	Gravel	Concrete Other				
	Roadway width: 22 ft.						
	Number of highway lanes		2				
	Urban or Rural		Rural				
	Vehicle Speed: 35 MPH						
?	School Bus Operation: No	Yes	Amount				
7	Hazardous Materials Trucks:]No	X Yes <u>.05</u> Amount				
•	Shoulders: No TY						
	Is the shoulder surfaced?		Yes				
	Is there existing guardrail along						
	Is stopping site distance adequa			approach(es)			

	Quadrant Curb and Gutter:	Quadrant Curb and Gutter:
	Functional (Curb height = 4" or more)	Functional (Curb height = 4" or more)
	Non-functional (Curb height = Less than 4")	☐ Non-functional (Curb height = Less than 4")
	☐ None	☐ None
	Pedestrians: No Yes	
	Is sidewalk present? No Yes	
	is there a nearby intersection that could cause queuing over the ci	rossing? No Yes
	If yes, Distance	
	Is this intersection signalized? No Yes	
	Are the signals currently interconnected with the existing crossi	ing warning devices? No Yes
	Is there a 'Do not Stop on Track' sign? No Yes	
7	location in the foreseeable future? 📈 No 🔲 Yes	by new or upgraded traffic signal, sidewalk) planned at or near this
•	If yes, Improvement typeLead Agency	Timeline/completion -
_	Is it the consensus of the Diagnostic Review Team that this is a po	otential closure project: No Yes
7	Explain reasons:	
	Type of Development	A schools
	Open Space Institutional Location of nearby Commercial	y schools.
	Residential	
ļ.	Utility Information	
	Is commercial power available? No	
	Utility Provider (Company Name)	Phone Number
	Nearest Available Power Source	
	What other utilities are present? Gas Cable (add locations to sketch) Petroleum Water	Telephone Fiber Optic Cable
	(add locations to sketch)	
	Is(are) there potential utility conflict(s) Yes XNo [Unknown
	Comments:	
].	

Potential Red Flags / Project Challenges	
Traffic Signal Preemption (include traffic signal intersection	on name and LHA with jurisdiction over traffic signal, if known):
4/4	
Crossing Consolidation or Closure:	
? NO	
Real Estate or ROW:	4
Culverts / Drainage / Ballast Conditions:	
NA	
Roadway and/or Sidewalks:	+
Circuitry (e.g. reaches out to other crossings, specific ne	eds, etc.):
Ala	
Environmental:	· · · · · · · · · · · · · · · · · · ·
4/4	
Other:	

Diagnostic Team Recommendations	
Diagnostic Team Recommendations	Quadrants Needed
Install/upgrade active devices	Quadrants reeded
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:	
Commences	
☐ Install/upgrade traffic signal preemption	
☐ No improvements needed	
Other (define) LIGHTS + GATE	
- CIGHT) A CIMIC	
A Label Company of the Company of th	a di di Personali di Managara
Acknowledgement of Recommendations (each entity represented a acknowledgement):	t the diagnostic must have at least one signature
GWGI GM/	
ATTE NIL	
Field Dimensions	
Show North Direction	
Parkway '	
Roadway	
11	
	
Roadway	
The latest and the la	
Parkway	
· · · · · · · · · · · · · · · · · · ·	
Sídewalk	
<u> </u>	

q

Surface type Rubber seal and asphalt Timber and asphalt	Condition
Rubber seal and asphalt	_
	⋉ Good
	☐ Fair
☐ Asphalt	□ Poor
☐ Composite	Comments:
☐ Concrete panel	comments.
•	
☐ Full-depth timber	
☐ Full-depth rubber	
□ Other	
about of the conference of the	(43 / No
s the surface good and sufficient?	Yes / No
/ehicle type (cars, trucks, etc.):	
Surface conditions: Can vehicles cross at posted speed?	455
Local observations/driver behaviors:	DRIVER SLOW
	24,50.
Do existing surface conditions have negative effect Explain:	s on the current or proposed warning devices?
Comments:	
comments.	
orm completed by: GWC7	Date: 4 20 (6

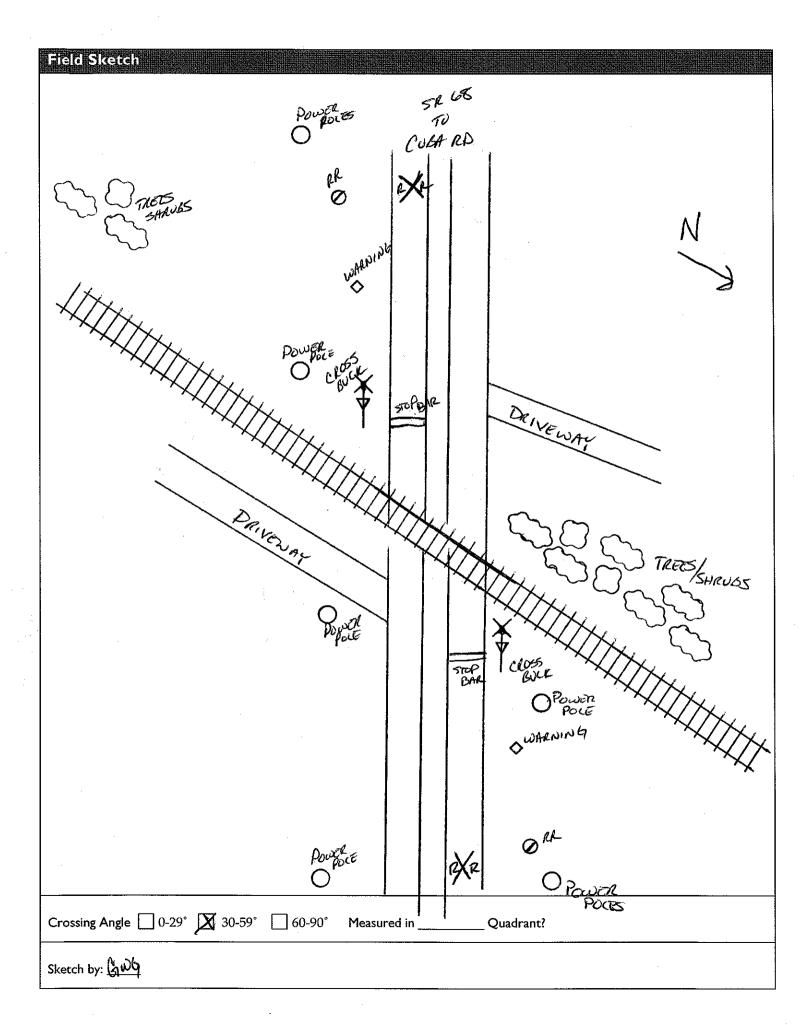


TABLE I

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
7 5	1800
80	1920
85	2040
90	2160

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

Notes:

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

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

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

Table 2

Stopping Sight Distances

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

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

Notes:

All calculated distances are rounded up to the next higher 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.

OHIO RAIL DEVELOPMENT COMMISSION INTER-OFFICE COMMUNICATION

TO: Randall Schumacher, Supervisor, Rail Division, PUCO

FROM: Cathy Stout, Manager, Safety Section, ORDC

BY: Greg Gronbach, Project Manager, Safety Section, ORDC

SUBJECT: Clinton County, Doan Street, IORY DOT # 151957H, PID 103223

DATE: December 12, 2016

The Public Utilities Commission of Ohio (PUCO) established a diagnostic survey at the subject location on April 25, 2016. The Ohio Rail Development Commission (ORDC) attended the review. The Diagnostic Team recommended the improvement of warning devices to flashing lights and roadway gates. Copies of the diagnostic review form and the plan and estimate are attached.

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

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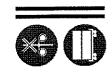
- any ancillary work to make warning devices function as designed and visible to the roadway user, and
- MUTCD compliance including minor roadway work if necessary.

Thank you for your assistance with these matters.

Attachment: Diagnostic Review

Plan & Estimate

c: Jill Henry, PUCO Susan Arduni, ORDC ORDC Project Manager (file)



Mail Stop #3140, 1980 West Broad Street. Columbus 2001 Stop #3140, 1980 West Broad Street. Columbus 2001 Stop #3140, 1980 West Broad Street.

December 12, 2016

Vice President-Engineering, Ohio Valley Region Railroads Indiana & Ohio Railroad (IORY) 4349 Easton Way, Suite 110 Columbus, OH 43219 John Hilborn, PE

Clinton County, Doan Street, IORY DOT # 151957H, PID 103223 Railroad PE Authorization RE:

Dear Mr. Hilborn:

documents and bid tabs pertaining to this project. This authorization is made with the stipulation Development Commission (ORDC) prior to being incurred. Emergency verbal authorizations by and understanding that the approved estimate may contain entries for items or activities that may proposed grade crossing warning system in accordance with the abbreviated plan. Construction The plan and estimate dated November 18, 2016, for the referenced project has been reviewed may include but is not limited to circuitry design, installation of service poles, procurement of Reimbursement of eligible actual cost is limited to \$190,000.00 and will be adjusted based on ORDC may be permitted and will be confirmed by ORDC in writing within ten (10) business bid tabulations if applicable. Additional costs must be approved in writing by the Ohio Rail and is acceptable. Indiana & Ohio Railroad (IORY) may proceed with the construction of the Subcontracted Costs for Railroads and accordingly provide ORDC with any relevant bid materials and signal construction. Please note ODOT Railroad Audit Circular No.4 be cited and found to be ineligible for federal participation during the project audit.

This authorization is contingent upon Indiana & Ohio Railroad (IORY) accepting the following

- Indiana & Ohio Railroad (IORY)'s project foreman will furnish written notification five (5) ORDC, email Greg. Gronbach@dot.ohio.gov, and to the Public Utilities Commission of will also notify the same of any stops and re-starts of the work activity and of the date Ohio at Jill Henry@puc.state.oh.us. Indiana & Ohio Railroad (IORY)'s project foreman working days prior to the date work will start at the project site to Greg Gronbach, work was completed for the project.
- site. Utilities that are not participating members of the service must be contacted directly Indiana & Ohio Railroad (IORY) 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 \vec{c}



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phone: 614.644,0306

- 1824 (telephone) or Greg. Gronbach (adot. ohio. gov (email) of any changes in the scope of Indiana & Ohio Railroad (IORY)'s project foremen will notify Greg Gronbach at 614-395work, 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. 3
- Open cut of roadways is not permitted except in unusual circumstances and must be coordinated with the local highway authority and preapproved by ORDC. 4
- Indiana & Ohio Railroad (IORY) will furnish two (2) copies of each partial bill to ORDC. Please find the enclosed ODOT Purchase Order to reference when billing. Ś
- Indiana & Ohio Railroad (IORY) will furnish two (2) copies of the final all-inclusive bill to ORDC stating the exact dates of starting and completing work, the initial and final dates of construction and location where the accounts may be audited. 6
- This installation will include any ancillary work to make the warning devices function as designed and meet MUTCD. ۲.

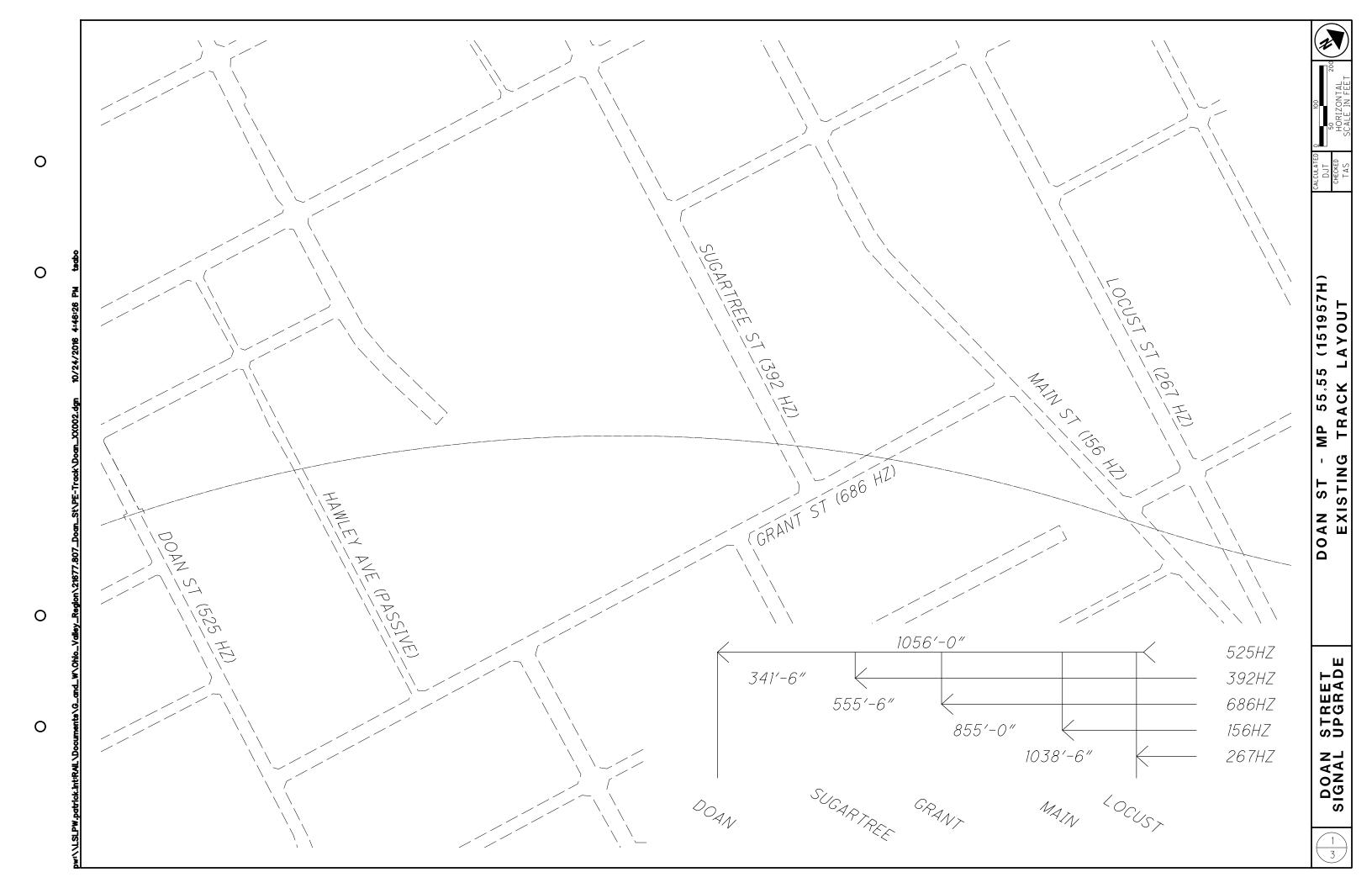
Thank you for your assistance with these matters.

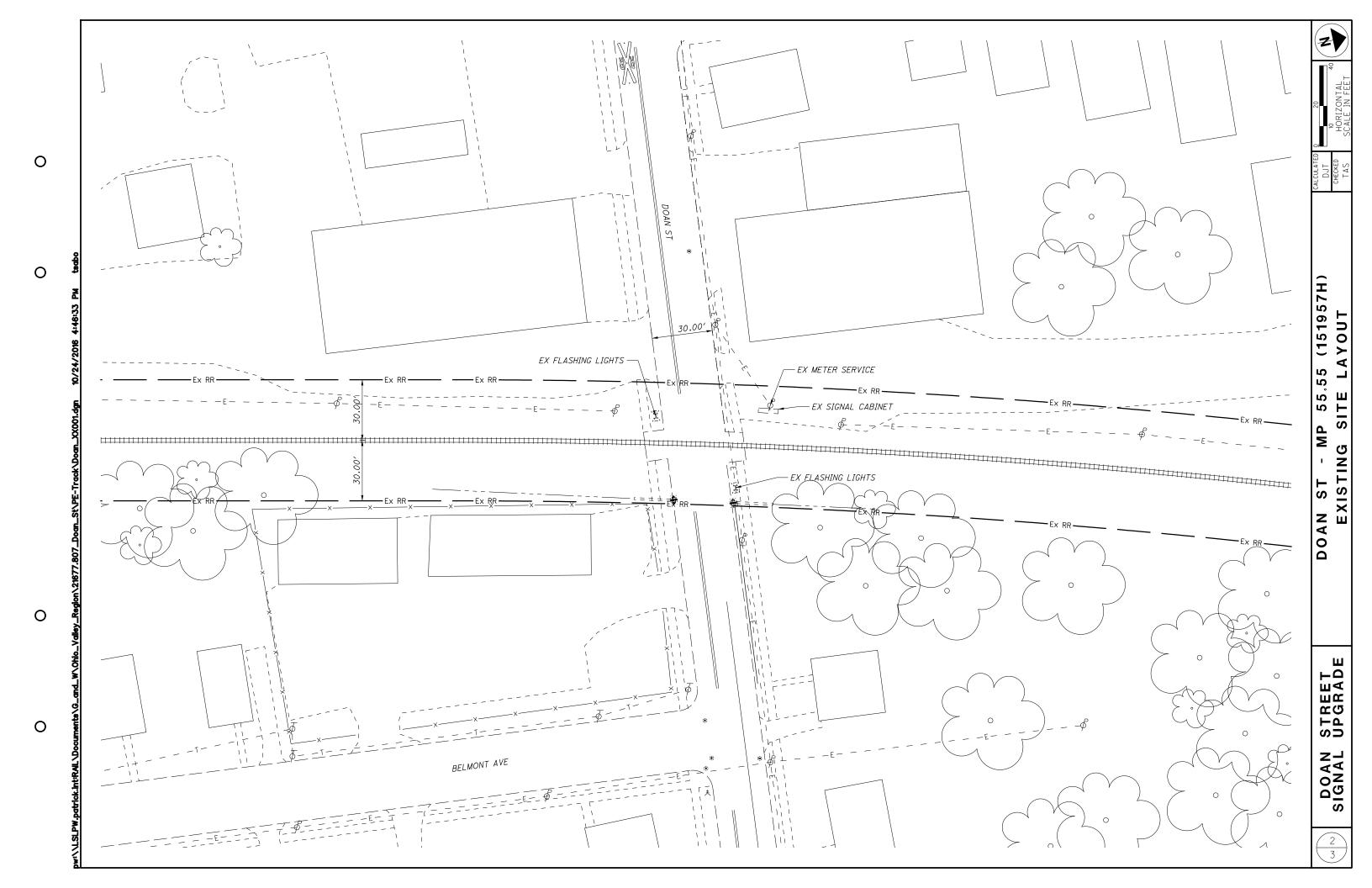
Sincerely,

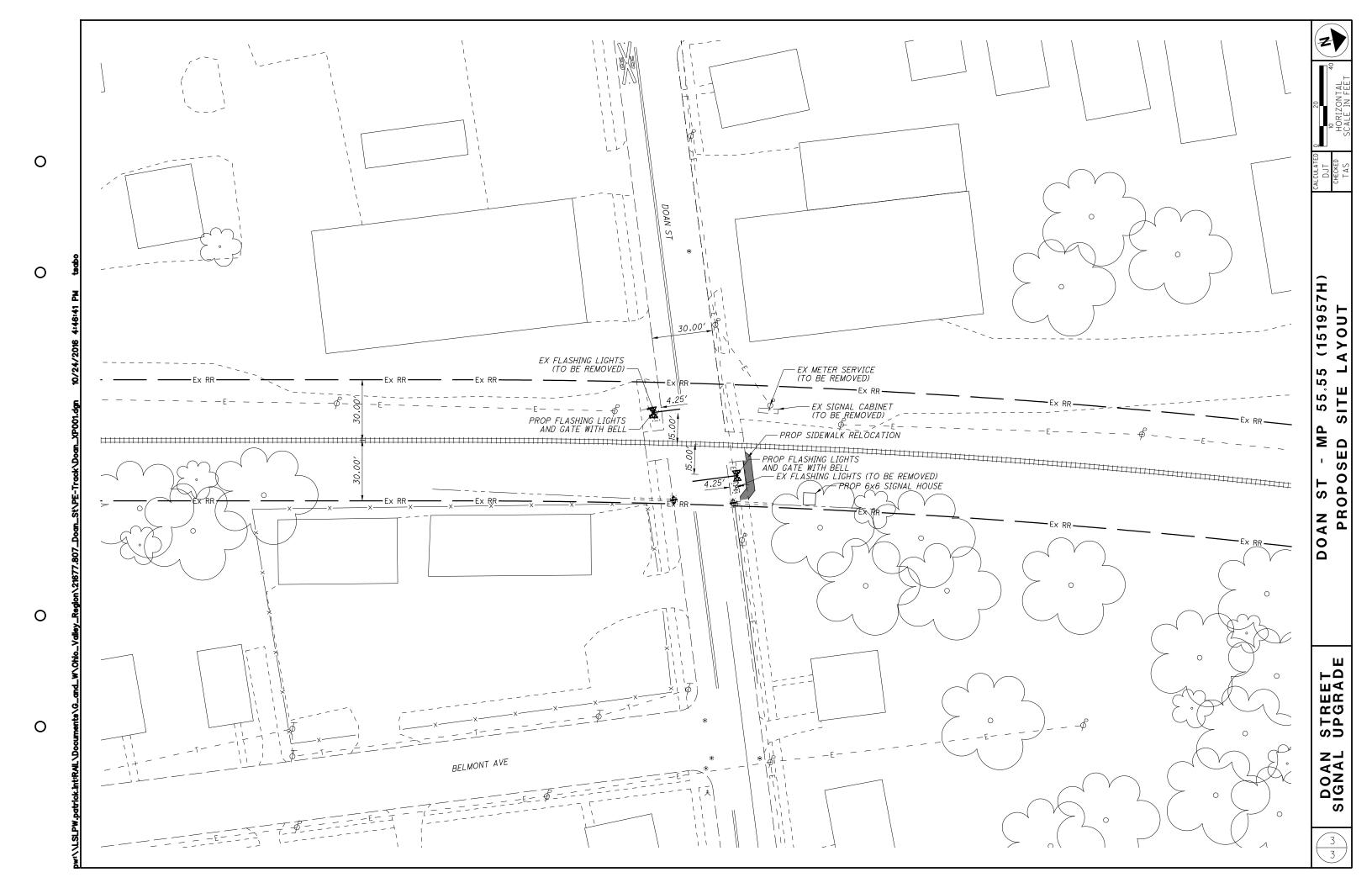
Greg Gronbach Project Manager

Project Manager

C: Randall Schumacher, Rail Division Supervisor, PUCO
 Jill Henry, Rail Specialist, PUCO
 Susan Arduini, ORDC
 ORDC (file)











Force Account Estimate - Doan Street (PID 103223)

INDIANA & OHIO RAILWAY COMPANY (IORY)

Wilmington, OH (Clinton County)

DOT#: 151957H Railroad # 16IORY21R RR MP: 55.55

SUMMARY

CROSSING WARNING SYSTEM	\$ 158,100.00	
(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	\$ 196,600.00	(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.

Prepared By: T. Sabo

Crossing Name: Doan St

Railroad: IORY

Town, State (County): Wilmington, OH (Clinton)

Railroad #: 16IORY21R

FRA#: 151957H

Patrick Engineering #: 21677.807

ITEM	UN	IIT COST	UNITS	то	TAL
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
Switch Insulation (Rods and Guage Plates)	\$	5,300.00	1 EA	\$	5,300.00
Sidewalk Relocation	\$	6,000.00	1 LS	\$	6,000.00
			SUBTOTAL	\$	84,800.00
Field Installation Materials @ 30%				\$	25,500.00
Freight & Handling				\$	2,000.00
			TOTAL MATERIALS	\$	112,300.00
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 INS	STALLATION & 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
Remove IJ's and Install New Rail	\$	2,400.00	4 Each	\$	9,600.00
			TOTAL EQUIPMENT	\$	37,000.00

TOTAL CROSSING WARNING SYSTEM \$ 158,100.00

11/18/2016



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

John Hilborn, PE Vice President-Engineering, Ohio Valley Region Railroads Indiana & Ohio Railroad (IORY) 4349 Easton Way, Suite 110 Columbus, OH 43219

RE:

Railroad PE Authorization

Clinton County, Doan Street, IORY DOT # 151957H, PID 103223

Dear Mr Hilborn:

A diagnostic review was held at the above grade crossing on 03/31/2016. The crossing has been recommended for the installation of lights and gates.

Indiana & Ohio Railroad (IORY) is authorized to proceed with the site plans and cost estimates (PE) or bid package 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 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 work necessary for MUTCD compliance should be incorporated into the PE and such costs will flow through the railroad reimbursement process.

The Project Manager for this project is Greg Gronbach. Mr. Gronbach can be reached at (614) 395-1824, or Greg.Gronbach@dot.ohio.gov, if you have any questions.

Sincerely,

Greg Gronbach Project Manager

C:

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

Attachment:

1 (diagnostic review form)



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Ohio Rail Development Commission Mail Stop 3140, 1980 W. Broad Street, Columbus, OH 43223

Diagnostic Review Team Survey

(e.g. formula, accident, constituent, etc.)	ent – Consolidation (Surface)	Date: 3/31/2016		
Location Data				
Street or Road Name: Doan Street				
Route/Road Number		US DOT No.:		
(i.e. Twp., Co., SR or US)		151957H		
County: CLI Township:	City: (In or Near)	Wilmington		
Railroad Name: Indiana & Ohio Railway	Railroad Division: Louisville	Branch/Line Name:		
Nearest RR Timetable Station: Wilmington		RR Milepost: 55.55		
On-Site Review Team				
(Include: Name-Organization-Phone Number-Email) 1. GREG GRONBACH ORDC G14-395-1834 GRONBACH B) DOT. OHIO. GOV 2. GMARTING PUGB 614-752-7107 3. Derek Winnester Indy \$13-317-3707 4. Adam Richts Topy \$13-335-46/2 5. Audrec Tecoronte City Wilm 937 382-6559 ataco ronte Quilm brush org. 6. Derry D. Runkst, Ctylul. 937-302-6723 & Runk Q Wilmington obsorg 7. Brian Shidaker City Wilm 937-382-6509 bshidaker Q wilmstood. 8. 9.				
		2301 BSHLAUCER CO, WINGSTRUC.A		
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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?)	Installed? ☑ Yes □ No			
8. 9. Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs	Installed? ☑ Yes □ No □ Yes ☑ No	Quantity/Comments		
8. 9. Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs	Installed? ✓ Yes No ✓ Yes No ✓ Yes No	Quantity/Comments GOOD		
8. 9. Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?)	Installed? Yes	Quantity/Comments		
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Initial Information (from database) Revised	Initial Information (from database) Revised	Safety Data (Obtain c	rash repo	rts, if possi	ible, prior to	review)			
In previous 5 years	Hazard Ranking 2503 Date Run: 3/08/2016 Railroad Data Railroad Characteristics Initial Information (from database) Revised							Revised	
Page	Hazard Ranking		0				-		
Railroad Characteristics	Railroad Data Railroad Characteristics Initial Information (from database) Revised Cotal trains per day		2502 Data Puni 2/09/2014				·		
Railroad Characteristics	Revised Revised Countries Countri		2303 		Date Kun	. 3/06/2016			
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If multiple tracks, can two trains occupy crossing at the same time? Yes No Can one train block the motorists' view of another train at crossing? Yes (Explain below) No Can one or more tracks be eliminated through the crossing? No Are there other track(s) crossing this same roadway within 100 ft of this crossing? No If yes, Crossing DOT #(if different) No If yes, distance (take measurement between track centerlines at closest point along roadway) Roadway Data Local Highway Authority: City of Wilmington Roadway Characteristics Initial Information (from database) Revised Average daily traffic 1946 (2014) No Roadway Surface: Blacktop Gravel Concrete Other Roadway width: 20 ft. Number of highway lanes 2 Urban or Rural Urban Vehicle Speed: MPH 25 School Bus Operation: No Yes Amount Hazardous Materials Trucks: No Yes Amount Shoulders: No Yes Is the shoulder surfaced? No Yes Is there existing guardrail along roadway in crossing vicinity? No Yes Is there existing guardrail along roadway in crossing vicinity? No Yes	If multiple tracks, can two trains occupy crossing at the same time? Yes No Can one train block the motorists' view of another train at crossing? Yes (Explain below) No Can one or more tracks be eliminated through the crossing? No Are there other track(s) crossing this same roadway within 100 ft of this crossing? No If yes, Crossing DOT #(if different) (take measurement between track centerlines at closest point along roadway) Roadway Data	Amtrak						.17 a .14N	HAS IEE
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Is there existing guardrail along roadway in crossing vicinity? KNo TYes				Yes					
	Is there existing guardrail along roadway in crossing vicinity? 💢 No 🔠 Yes				itv? XINA	T Yes			
	Is stopping site distance adequate? (See Table 2) Yes No If no, deficient approach(es)				· · · · · · · · · · · · · · · · · · ·			Δ	

j	Quadrant Curb and Gutter:	Quadrant Curb and Gutter:
	Functional (Curb height = 4" or more)	
	Non-functional (Curb height = Less than 4")	Functional (Curb height = 4" or more)
	None None	Non-functional (Curb height = Less than 4")None
	Pedestrians: No Yes	
	Is sidewalk present? No Yes	
	Is there a nearby intersection that could cause queuing over the c	rossing? No Yes
	If yes, Distance	
.	ls this intersection signalized? No Yes	
	Are the signals currently interconnected with the existing cross	sing warning devices? No Yes
	Is there a 'Do not Stop on Track' sign? No Yes	
4	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
100	Improvement type Lead Agency _	Timeline/completion -
	Is it the consensus of the Diagnostic Review Team that this is a po	otential closure project: X No Yes
7	Explain reasons:	
S		•
	Type of Development	
•	Open Space Institutional Location of nearby	y schools:
	Industrial Commercial	
L	Residential	
	Utility Information	
	ls commercial power available? 🔲 No 📈 Yes	
	Utility Provider (Company Name)	Phone Number
	Nearest Available Power Source Power Acropor	······································
	What other utilities are present? Gas Cable (add locations to sketch) Petroleum Water Other	Telephone Fiber Optic Cable Sanitary Sewer
	Is(are) there potential utility conflict(s) 💢 Yes 🗌 No [Unknown
	OVERHEAD POWER ON NORTHSIDE	OF DOAN ST.
1		

Potential Red Flags / Project Challenges
Traffic Signal Preemption (include traffic signal intersection name and LHA with jurisdiction over traffic signal, if known):
NIM
Crossing Consolidation or Closure:
1ES - POSSIBLE CLOSURE AT HAWLET AVE TO THE NORTH.
Real Estate or ROW:
A/A
Culverts / Drainage / Ballast Conditions:
Produment (a Side all
Roadway and/or Sidewalks:
POSSIBLE SIDEWALK WORK WITH I G INSTALL. CURBS OKAK.
Circuitry (e.g. reaches out to other crossings, specific needs, etc.):
ND
Environmental:
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Other:

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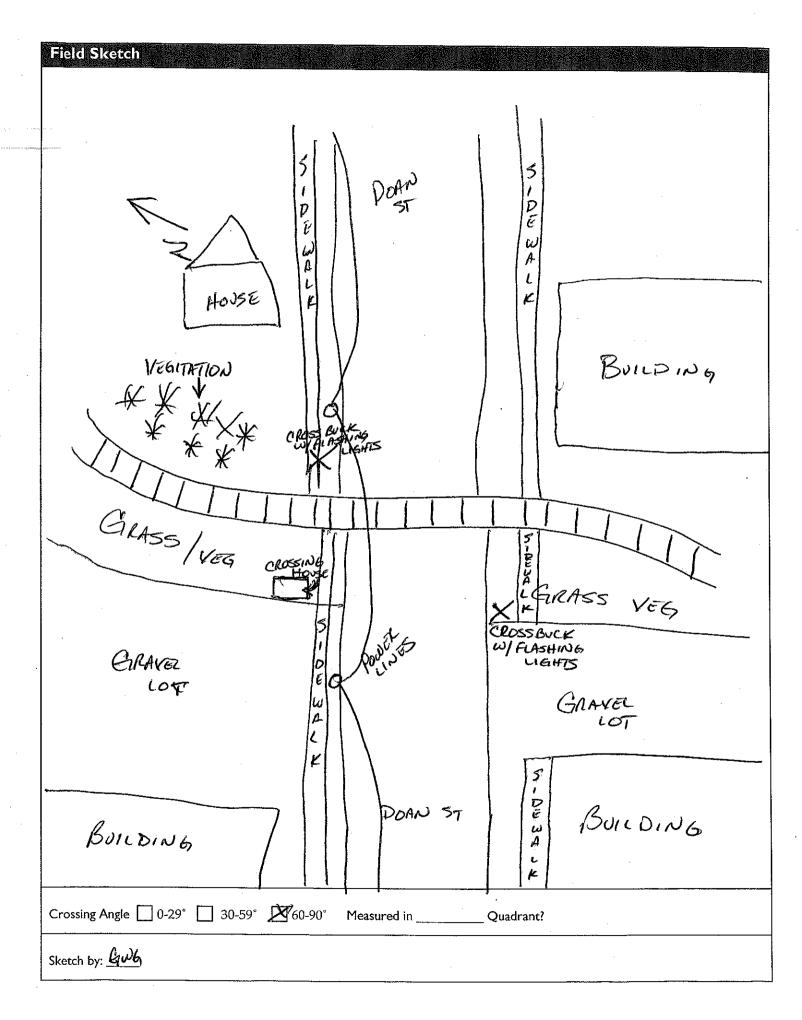


TABLE I

Clearing Sight Distances

	1
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

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.

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12/28/2016 2:30:52 PM

in

Case No(s). 16-2438-RR-FED

Summary: Application In the Matter of a Request for the Installation of Active Warning Devices at the IORY Railroad Crossings, DOT#151-970W, Cuba Road & DOT#151-957H, Doan Street, in Clinton County, Ohio. electronically filed by Mrs. Jill A Henry on behalf of PUCO/Rail Division