### 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. 16-2437-RR-FED- In the Matter of a Request for the Installation of Active Warning Devices at the IORY Railroad Crossing, DOT# 151-350H, Camargo Road in Hamilton 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 Camargo Road, DOT#151-350H, grade crossing in Hamilton County, Ohio. The crossing was surveyed on April 25, 2016 and was found to warrant the upgrade. The electric utility provider for this crossing is Duke Energy-Cincinnati Gas & Electric.

The project will be paid for with federal funds and is actual cost. The plans and estimates for the project in the amount of \$200,000 (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

City of Madeira Thomas Moeller City Manager 7141 Miami Avenue Madeira, Ohio 45243

Duke Energy- Cincinnati Gas & Electric

## 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: Hamilton County, Camargo Rd, IORY DOT # 151350H, PID 103323

**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

Hamilton County, Camargo Rd, IORY DOT #151350H, PID 103323

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).



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- 3. Indiana & Ohio Railroad (IORY)'s project foremen will notify Greg Gronbach at 614-395-1824 (telephone) or <a href="mailto:Greg.Gronbach@dot.ohio.gov">Greg.Gronbach@dot.ohio.gov</a> (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 Grouback
Project Manager

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

ORDC (file)





Force Account Estimate - Camargo Road (PID 103323)

### **INDIANA & OHIO RAILWAY COMPANY (IORY)**

Madeira, OH (Hamilton County)

DOT#: 151350H Railroad # 16IORY22R RR MP: 16.89

#### **SUMMARY**

CROSSING WARNING SYSTEM	\$	190,600.00	
(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	\$	229,100.00	(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.

**Crossing Name: Camargo Rd** 

Railroad: IORY

Town, State (County): Madeira, OH (Hamilton)

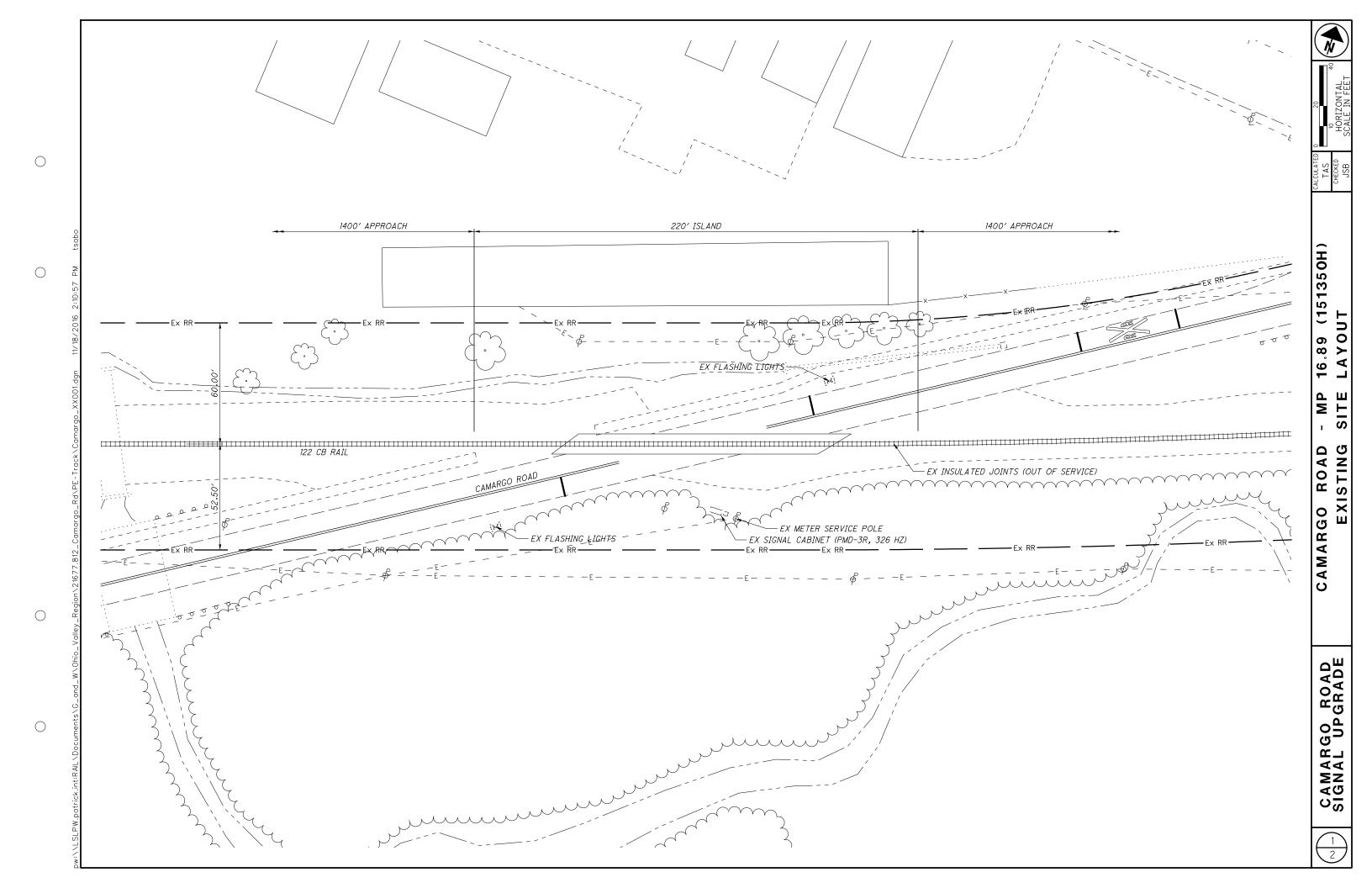
Railroad #: 16IORY22R FRA#: 151350H

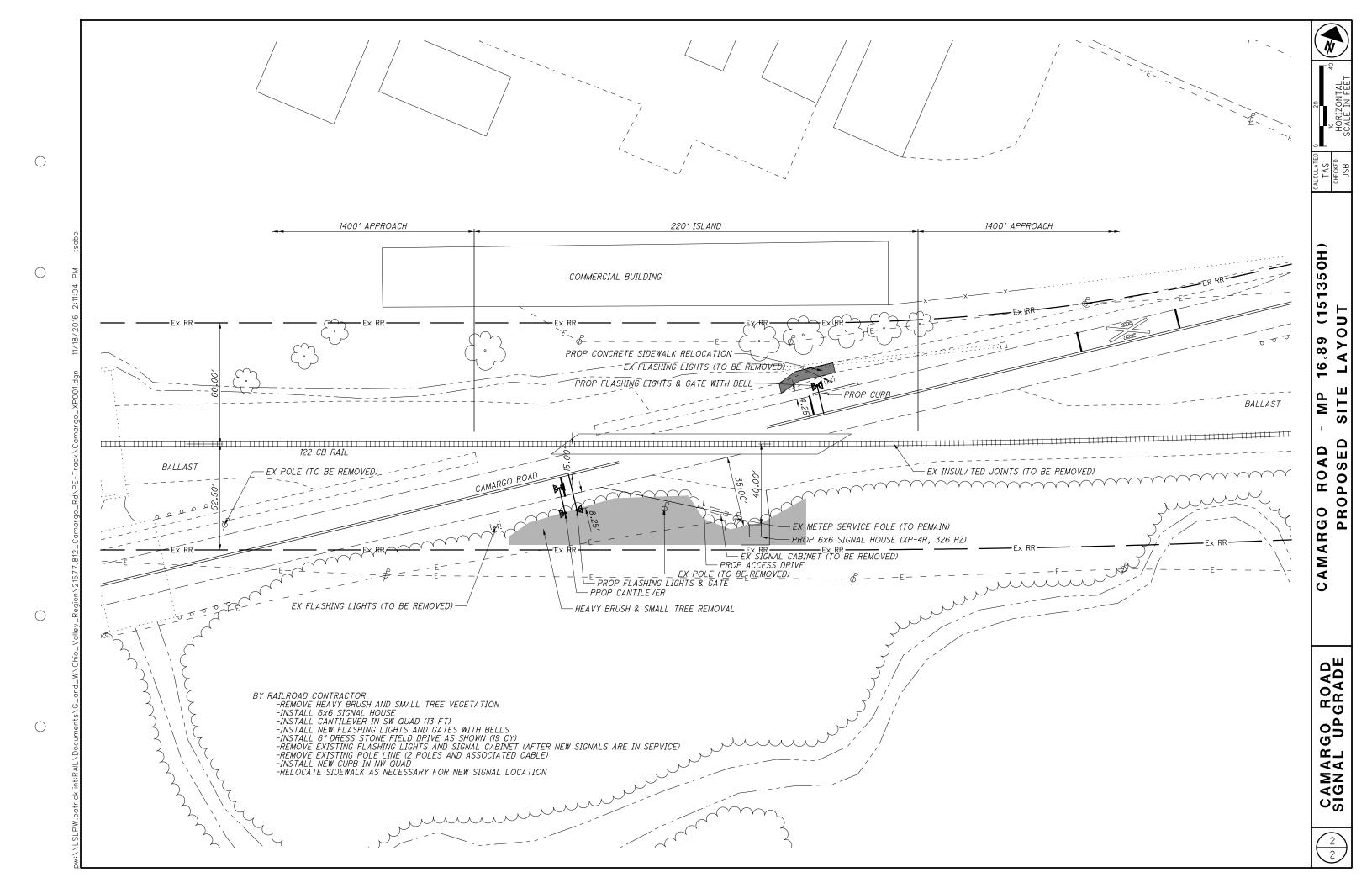
Patrick Engineering #: 21677.812

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
Cantilever Assembly	\$	30,000.00	1 EA	\$	30,000.00
Pole Line Removal	\$	700.00	2 EA	\$	1,400.00
Curb and Sidewalk Installation	\$	7,500.00	1 LS	\$	7,500.00
Heavy Brush and Tree Removal	\$	3,000.00	1 LS	\$	3,000.00
			SUBTOTAL	\$	115,400.00
Field Installation Materials @ 30%				\$	34,700.00
Freight & Handling				\$	2,000.00
			TOTAL MATERIALS	\$	152,100.00
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
Remove IJ's and Install New Rail	\$	2,400.00	2 EA	\$	4,800.00
			TOTAL EQUIPMENT	\$	29,700.00

Prepared By: T. Sabo 11/18/2016

TOTAL CROSSING WARNING SYSTEM \$ 190,600.00







# 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: Hamilton County, Camargo Rd, DOT# 151350H, PID 103323

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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# OHIO RAIL DEVELOPMENT COMMISSION

**Diagnostic Review Team Survey** 

Reason for Survey: (e.g. formula, accident, constituent, etc.)	Formula Spring Pick	Date: 4/25/2016
Location Data Street or Road Name:		
Camargo Road		
Route/Road Number (i.e. Twp., Co., SR or US)		US DOT No.: 151350H
County: HAM Township:	City: (In or Near)	City of Madeira
Railroad Name: Indiana & Ohio Railway	Railroad Louisville	Branch/Line Name:
Nearest RR Timetable Station: Oakley		RR Milepost: 16.89
On-Site Review Team		
(Include: Name – Organization – Phone Number		
1. GIEG GHONEACH ORD	SC 614-395-1824	GREG. GRONBACH (A) DOT. OHIO. GOV
2. CEORDS MARTIN	PJCO 614-752-91	07
3. Decel Wishesta.	LOY 513-317-3707	dead, Winhater & GURA. Con
4 Tom Meanex	MADERA 513-5/6-777	derd Wichartere gurr. con
5.		Con
6	-	
7	·	
8		
9		
25 H 13 S H 15 S		
Existing Traffic Control Device		
Type of Warning Devices	installed?	Quantity/Comments
Advance Warning Signs (condition?)	Yes No	GOOD
'Stop' Signs	Yes No	
'Stop Ahead' Signs Pavement Markings (condition?)	☐ Yes   No ☐ Yes ☐ No	AVERAGE
Crossbucks	⊠Yes □ No	Nyernac
Number of Tracks Signs	Yes XNo	
Inventory Tags	Yes □ No	
Interconnected Highway Traffic Signal	☐ Yes 【No	
Mast-Mounted Flashing Lights	¥Yes □ No	
Cantilever Flashing Lights	☐ Yes    ✓ No	Number: Length:
Side Lights	☐ Yes 🗹 No	
Automatic Gates	Yes No	Number: Length:
Bells	☐ Yes ☑ No	Number:
Sidewalk Gate Arms	Yes No	
'No Turn' Signs Illumination	☐ Yes   ✓ No	1
r ramillialion	□ V	
	Yes No	
Is crossing flagged by train crew? Other	☐ Yes ☑ No ☐ Yes ☑ No ☐ Yes ☐ No	

Safety Data (Obtain crash reports, if possible, prior to review)				
	Initial Information (from database) Revised			
Number & dates of crashes 0 in previous 5 years				
Hazard Ranking 1101 Date Run: 3/30/2016				
Railroad Data				
Railroad Characteri	stics	Initial Information (from database)	Revised	
Total trains per day	·	6		
< 1 per day				
Day thru trains		4		
Night thru trains		2		
Daytime switching movem	ents			
Nighttime switching move	ments			
Total number of tracks		1		
Number of main tracks		1		
Number of other tracks				
Maximum train speed		M 25		
Typical train speed		AO		
Amtrak				
If non-gated crossing, is clearing	ng sight distar	nce adequate in all quadrants? (See Table 1)	Yes No	
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)  Can one or more tracks be eliminated through the crossing? Yes No  Are there other track(s) crossing this same roadway within 100 ft of this crossing? Yes				
If yes, Crossing DOT #(if of the lift yes, distance		asurement between track centerlines at close	est point along roadway)	
Roadway Data				
Local Highway Authority:		City of Madeira		
Roadway Character	istics	Initial Information (from database)	Revised	
Average daily traffic		7942 (2014)		
Highway paved		X Yes No	☐ Yes ☐ No	
Roadway Surface: X 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 X Yes Z Amount				
Hazardous Materials Trucks: No X Yes .04 Amount				
Shoulders: No Yes				
Is the shoulder surfaced?	No 🗌	Yes		
Is there existing guardrail alon				
	ig roadway in	crossing vicinity? \( \bar{\text{N}} \) No \( \bar{\text{Yes}} \)		



	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 XYes	
	Is sidewalk present? No Yes	
	Is there a nearby intersection that could cause queuing over the co	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	
2	Is a roadway improvement project (e.g. widening, turn lanes, nearl location in the foreseeable future? No Yes If yes,	by new or upgraded traffic signal, sidewalk) planned at or near this
*	Improvement type Lead Agency	Timeline/completion -
2	Is it the consensus of the Diagnostic Review Team that this is a po Explain reasons:	otential closure project: No Yes
•		
	Type of Development	
	Open Space Institutional Location of nearby	y schools:
	☐ Industrial ☑ Commercial	
	Residential	
	Utility Information	
	Is commercial power available? No Yes	
	Utility Provider (Company Name) カッド	Phone Number
	Nearest Available Power Source	
	What other utilities are present?  Gas  Cable	☐ Telephone ☐ Fiber Optic Cable
	(add locations to sketch)	Sanitary Sewer
	Other	
	Is(are) there potential utility conflict(s) Yes	Unknown
	Comments: POWER LINES IN SE QUA	
	Lowel cines in the day	

Potential Red Flags / Project Challenges		
Traffic Signal Preemption (include traffic signal intersection	on name and LHA with jurisdiction over traffic sign	al, if known):
· ·	Al U	
Crossing Consolidation or Closure:	4/0	
Real Estate or ROW:	NA	
Culverts / Drainage / Ballast Conditions:		
r	4/2	
Roadway and/or Sidewalks: SIDOWACK OF	N WESTSIDE OF CAMAREIO	RD
Circuitry (e.g. reaches out to other crossings, specific ne	eds, etc.):	
	4/4	
Environmental:	NA	
Other:		

•

Diagnostic Team Recommendations	
	Quadrants Needed
Install/upgrade active devices	
Automatic Flashing Lights (AFLS)	
AFLS /Cants	
AFLS / Gates	
AFLS / Gates / Cants	SOUTHSIDE OF CROSSINGINE)
Bells / number	
Upgrade circuitry / type	
Sidelights	
Guardrail Needed	
Install/Replace curb	
Bungalow placement & offset from rail & highway	
Other (define)	
Comments: o d c c c c c c c c c c c c c c c c c c	MICH WAS CORE AND SIDEWARD
Comments: NORTHSIDE OF CROSSING @  +O BE DONE BY CITY - THRU ORD  ON SOUTHSIDE OF CROSSING BOTH S	4.3 MILL COIDS WAS STATE DATE
TO BE DONE BY CITY THEO ORD	of tanding, 84m to remove both
on southside of crossing both s	SIDES (E+W),
☐ Install/upgrade traffic signal preemption	
☐ No improvements needed	
Other (define)	
Acknowledgement of Recommendations (each entity represented acknowledgement):	at the diagnostic must have at least one signature
	n: 11 /
GW6 Com	
Trong Change	
- Jonas a "	ut
Field Dimensions	
Show North	
Sidewalk , Show to the Direction	
Parkway tl '	
11	
Roadway	
<b>↓ ↓</b> .	
<del> </del>	
Roadway	
Parkway	
<u> </u>	
Sidewalk	
HOEWOIN	
T-T	

•

unty: IMM Route: CAMAICGO R	DOT#: 131330FF
Surface type	Condition
☐ Rubber seal and asphalt	☐ Good
☐ Timber and asphalt	<b>∡</b> Fair
☐ Asphalt	□ Poor
☐ Composite	Comments:
☐ Concrete panel	
☐ Full-depth timber	
🗷 Full-depth rubber	
☐ Other	
Is the surface good and sufficient?	(G) / No
Vehicle type (cars, trucks, etc.):	
Surface conditions:	
Can vehicles cross at posted speed?	465
can venicies cross at posteu speed?	
Local observations/driver behaviors:	NO SLOWING - CROSS AT SPEED
Limit.	
Relevant crash history:	
WW	
	ects on the current or proposed warning devices?
Explain:	
Comments:	
•	
A >1	1 1
Form completed by:	Date: 4/21/16

soustout ch	MARCO MARCO
Residence of the second of the	WHITH THE SECOND
Po Po Po La Contraction de la	Choose forms  Ch
Crossing Angle 0-29° 30-59° 60-90° Measured in Sketch by:	

TABLE !

### **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

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.

This foregoing document was electronically filed with the Public Utilities

**Commission of Ohio Docketing Information System on** 

12/28/2016 2:28:17 PM

in

Case No(s). 16-2437-RR-FED

Summary: Application In the Matter of a Request for the Installation of Active Warning Devices at the IORY Railroad Crossing, DOT#151-350H, Camargo Road in Hamilton County, Ohio. electronically filed by Mrs. Jill A Henry on behalf of PUCO/Rail Division