

Memo

To: Docketing Division
From: George Martin, Grade Crossing Planner, Rail Division
Re: In the matter of the authorization of the Indiana & Ohio Railway to install an active grade crossing warning device in Clinton County
Date: January 14, 2013

The Ohio Rail Development Commission (ORDC) has authorized funding for the Indiana & Ohio Railway (IORY) to install mast mounted flashing lights and roadway gates at the Lazenby Street, DOT# 151305N, grade crossing in the Village of Blanchester, Clinton County. The crossing was surveyed on January 6, 2012 and was found to warrant the upgrade.

The project will be paid for with federal funds, and is actual cost. As the plan and estimate have already been submitted and approved, staff requests an Entry with completion of the projects in nine months. Construction may commence at once. Staff requests that the following language be incorporated in the Entry:

It is expected that all work necessary for FHWA acceptance of the warning devices will be completed by the in-service due date and that the railroad will be responsible for this work. This work includes, but is not limited to:

Any ancillary work to make the warning devices function as designed and visible to the roadway user, and

MUTCD compliance, including minor roadway work if necessary.

A suggested case coding and heading would be:

PUCO Case No. 13- 0201 -RR-FED In the matter of the authorization of the Indiana & Ohio Railway to install an active grade crossing warning device in Clinton County

C: Legal Department

Please serve the following parties of record

• Page 1

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Technician SMS Date Processed JAN 14 2013

RECEIVED-DOCKETING DIV
2013 JAN 14 PM 12:23
PUCO

Ms Cathy Stout

Ohio Rail Development Commission

1980 West Broad St, Mailstop #3140

Columbus, Oh 43223

Mr Larry Romaine

RailAmerica

7411 Fullerton St

Jacksonville, Fl 32256

Mr Matt Paul

Xorail

5011 Gate Parkway

Bldg 100, Ste 400

Jacksonville, Fl 32256

Mayor Chad Hollon

318 E Main St

Blanchester, Oh 45107

Dayton Power & Light

**OHIO RAIL DEVELOPMENT COMMISSION
INTER-OFFICE COMMUNICATION**

TO: George Martin, Rail Division, PUCO

FROM: Cathy Stout, Manager, Safety Section, ORDC

BY: Tim Perkins, Project Manager

SUBJECT: Village of Blanchester, Clinton County, Lazenby Street, I&O, DOT No. 151
305 N, PID No. 92945

DATE: January 11, 2013

The Public Utilities Commission of Ohio (PUCO) established a diagnostic survey at the subject location on January 6, 2012. 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 plan and estimate as provided. Please issue a construction-only order for the project outlined above. This construction authorization is made with the stipulation and understanding that any field work needs prior approval before the work begins. This authorization is made with the stipulation and understanding that an approved estimate may contain entries for items or activities that may be cited and found to be ineligible for federal participation during the project audit.

It is expected that all work necessary for FHWA acceptance of the warning devices will be completed by the in-service due date and that the 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.

Attachment: Diagnostic Review
Plan & Estimate

c: ORDC Project Manager (file)



Diagnostic Review Team Survey

Date: 1/6/2012

Location Data

Street or Road Name: Lazenby Street			
Route/Road Number (i.e. Twp., Co., SR or US)		US DOT No.: 151305N	
County: Clinton	Township:	City: (In or Near)	Blanchester
Railroad Name: IORY	Railroad Division: Louisville, Midland Sub	Branch/Line Name:	
Nearest RR Timetable Station: Midland Cy		RR Milepost: 40.26	

On-Site Review Team

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

1. Tim Perkins, ORDC, 614-580-7749, tim.perkins@dot.state.oh.us
2. George Martin, PUCO, 614-752-9107 (c. 614-203-4714), George.martin@puc.state.oh.us GEORGE MARTIN
3. W. Wayne Chiften 937-302-0240
4. Roanna Wilder 937-302-0241
5. T. Chad Hollon 937-783-4502
6. Charles Duman 937-302-0250
7. RUSTY HAMPTON 937-783-4702
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 type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Crossbucks	FORMCHECKBOX <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		None
Number of Tracks Signs	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Inventory Tags	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Interconnected Highway Traffic Signal	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Mast-Mounted Flashing Lights	<input checked="" type="checkbox"/> Yes	<input 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 checked="" type="checkbox"/> Yes	<input 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	1 (12/7/2006)	
Hazard Ranking	217	Date Run: 10/14/2010
Railroad Data		
Railroad Characteristics	Initial Information (from database)	Revised
Total trains per day	4	
< 1 per day		
Day thru trains	0	
Night thru trains	2	
Daytime switching movements	1	
Nighttime switching movements	1	
Total number of tracks		
Number of main tracks	1	
Number of other tracks	0	
Maximum train speed	30	
Typical train speed		
Amtrak		
If non-gated crossing, is clearing sight distance adequate in all quadrants? (See Table 1) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
If multiple tracks, can two trains occupy crossing at the same time? <input type="checkbox"/> Yes <input type="checkbox"/> No		
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 checked="" 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:		Village of Blanchester
Roadway Characteristics	Initial Information (from database)	Revised
Average daily traffic	1325 (2011)	
Highway paved	<input checked="" type="checkbox"/> 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: <u>20</u> ft.		
Number of highway lanes	<u>2</u>	
Urban or Rural	Urban	
Vehicle Speed: <u>25</u> MPH		
School Bus Operation: <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> Yes <u>16</u> Amount <u>per day</u>		
Hazardous Materials Trucks: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes _____ Amount		
Shoulders: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes		
Is the shoulder surfaced? <input 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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No If no, deficient approach(es) _____		

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 type="checkbox"/> No <input type="checkbox"/> Yes Are the signals currently interconnected with the existing crossing warning devices? <input type="checkbox"/> No <input type="checkbox"/> Yes Is there a 'Do not Stop on Track' sign? <input 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 type="checkbox"/> No <input type="checkbox"/> Yes Explain reasons: _____	
Type of Development	
<input type="checkbox"/> Open Space <input type="checkbox"/> Industrial <input checked="" type="checkbox"/> Residential	<input type="checkbox"/> Institutional <input checked="" type="checkbox"/> Commercial Location of nearby schools: _____
Utility Information	
Is commercial power available? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes Utility Provider (Company Name) <u>DP&L</u> Phone Number _____ Nearest Available Power Source _____ What other utilities are present? _____ (add locations to sketch)	
Is(are) there potential utility conflict(s) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
Comments: <i>S south of crossing is blocking preview of existing flashes, cross as traveling North, but back light is visible. Don Clark - Ifo was unable to attend but wants lights and gates.</i>	

Potential Red Flags / Project Challenges

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

N/A

Crossing Consolidation or Closure:

No

Real Estate or ROW:

N/A

Culverts / Drainage / Ballast Conditions:

N/A

Roadway and/or Sidewalks:

N/A

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

Environmental:

Other:

B Utility pole south of crossing would need relocated to improve signal preview. Village to relocate and bill for relocation - Wayne Clifton 937-302-0240 said 49' total right-of-way.

Diagnostic Team Recommendations

	Quadrants Needed
<input type="checkbox"/> Install/upgrade active devices	
<input type="checkbox"/> Automatic Flashing Lights (AFLS)	
<input type="checkbox"/> AFLS / Cants	
<input checked="" type="checkbox"/> AFLS / Gates	
<input type="checkbox"/> AFLS / Gates / Cants	
<input checked="" type="checkbox"/> Bells / number	(1)
<input type="checkbox"/> Upgrade circuitry / type	
<input checked="" type="checkbox"/> Sidelights	for Railroad St.
<input type="checkbox"/> Guardrail Needed	
<input type="checkbox"/> Install/Replace curb	
<input type="checkbox"/> Bungalow placement & offset from rail & highway	per MUTCD
<input type="checkbox"/> Other (define)	

Comments:

<input type="checkbox"/> Install/upgrade traffic signal preemption	
<input type="checkbox"/> No improvements needed	
<input type="checkbox"/> Other (define)	

Acknowledgement of Recommendations (each entity represented at the diagnostic must have at least one signature acknowledgement):

<u>Jim Perkins</u>	<u>T. Chad Hollen</u>	
<u>Wayne C. Lister</u>	<u>Gary M. [Signature]</u>	
<u>Rodney Wood</u>	<u>Charles W. [Signature]</u>	

Field Dimensions

Sidewalk

Parkway

Roadway

Roadway

Parkway

Sidewalk

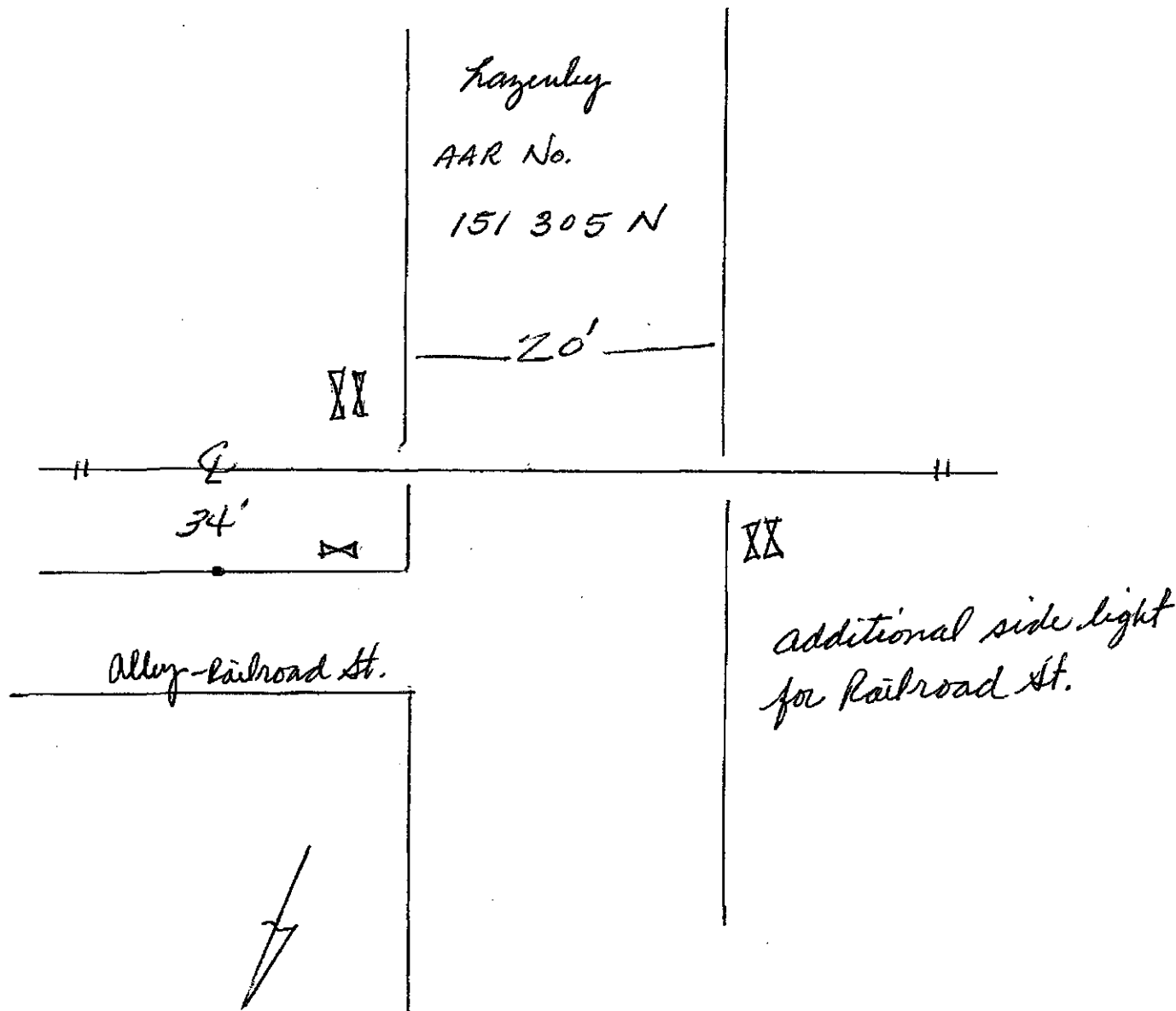
Show North Direction

Crossing Angle ☐ 0-29° ☐ 30-59° ☐ 60-90° Measured in _____ Quadrant?

Measurements by: _____

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 _____ Quadrant?

Sketch by: *JP*

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

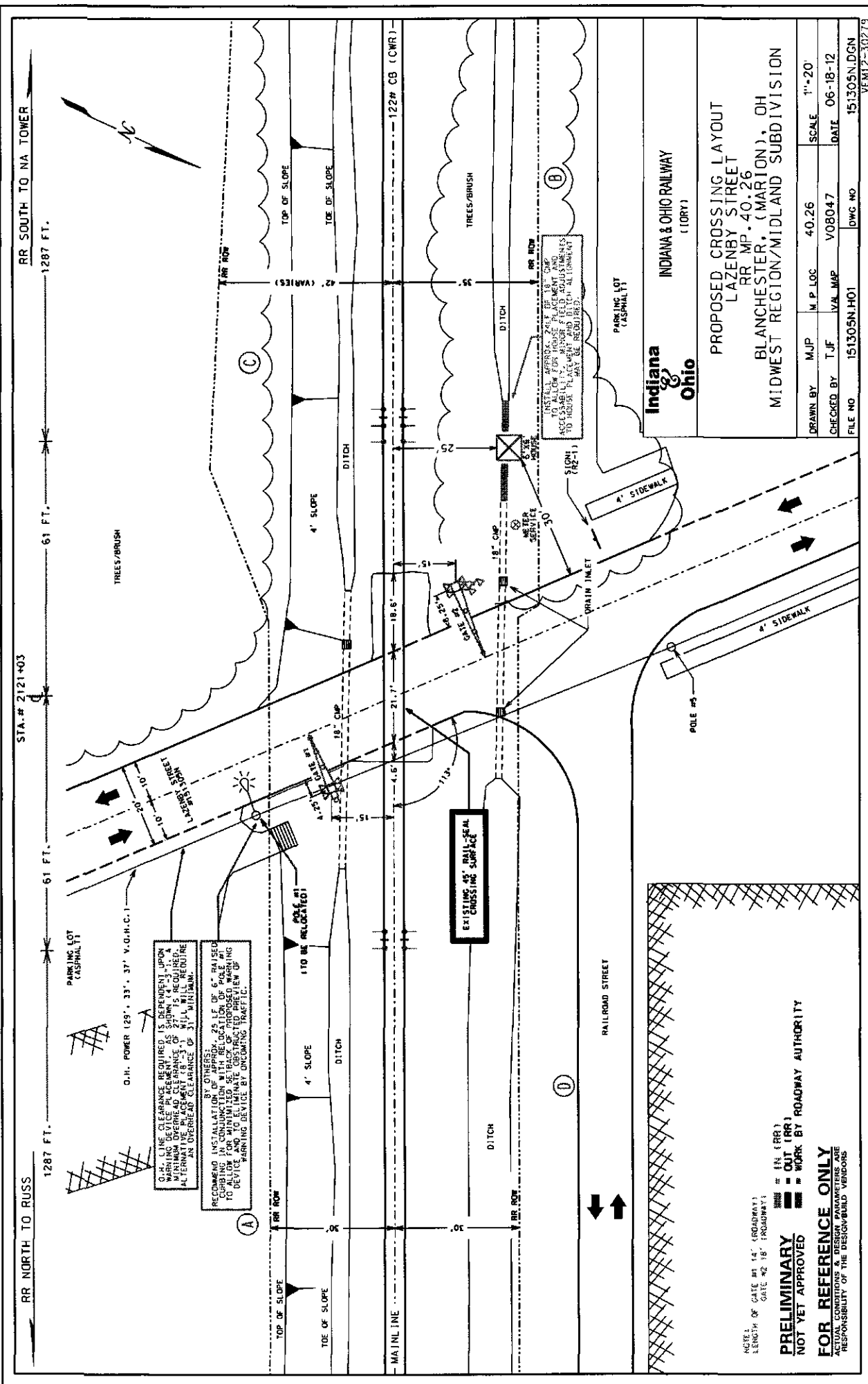
Source: R-H Grade Crossing Handbook Table 36 (pp. 132-133)

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.





Estimate No.: 151305N - 12-11-2012

Indiana & Ohio Railway (IORY)

Blanchester, (Clinton), OH - Lazenby Street

DOT#: 151305N
RR MP.: 40.26

Midwest Region
Midland Subdivision

RAILROAD #: IORYGC12014
XORAIL#: VEM12-30279

Summary

CROSSING WARNING SYSTEM (Includes all design, requisition, labor, materials, shop wiring, and installation)	\$145,206.00
CROSSING SURFACE/RESURFACE (Includes all design, requisition, labor, materials, and installation)	\$0.00
TRACK GRADE AND REHABILITATION (Includes all design, requisition, labor, materials, and installation)	\$0.00
RAILROAD ENGINEERING (Includes RAILROAD Labor for Reviewing Engineering Authorizations, Field Inspections and Administrative Labor)	\$0.00
PRELIMINARY ENGINEERING (Phase 1) (Includes CONTRACT Labor for all Engineering, Agency Coordination, and Project Management)	\$8,000.00
AGREEMENTS & APPROVALS (Phase 2) (Includes CONTRACT Labor for all Engineering, Agency Coordination, and Project Management)	\$5,000.00
CONSTRUCTION ENGINEERING (Phase 3) (Includes CONTRACT Labor for all Engineering, Agency Coordination, and Project Management)	\$8,000.00
CONSTRUCTION ENGINEERING INSPECTION (Estimated Construction Engineering Inspection cost based on 3 days @ \$1500 per day)	\$4,500.00
UTILITY CROSSING (0 new utility crossings @ \$4000 per crossing, includes application, engineering review, and right of entry)	\$0.00
RIGHT OF ENTRY FEE (Right of Entry Fee of \$1,500 is valid for 60 days, after 60 days, additional fees of \$750 per 30 days are required.)	\$0.00
FLAGGING SERVICES (Estimated Flagging Services cost based on 0 days @ \$1050 per day)	\$0.00
AC POWER SERVICE (Includes all Power Service Charges not included in other costs)	\$0.00
Utility Relocation (by Village of Blanchester) (Relocation of obstructing utility pole and overhead lines for placement of warning device - Quad A)	\$7,348.00
TOTAL ESTIMATE COST	\$178,054.00 (USD)

DATE: 12-11-2012

RESPONSIBLE PARTY:

Name: ORDC
Number: 92945
Contact: Tim Perkins

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.



Estimate No.: 151305N - 08/13/2012

Indiana & Ohio Railway (IORY)

Blanchester, (Marion), OH - Lazenby Street

DOT#: 151305N
RR MP.: 40.25

Midwest Region
Midland Subdivision

RAILROAD #: IORYGC12014
XORAIL#: VEM12-30279

Summary

CROSSING WARNING SYSTEM (Includes all design, requisition, labor, materials, shop wiring, and installation)	\$173,073.27
CROSSING SURFACE/RESURFACE (Includes all design, requisition, labor, materials, and installation)	\$0.00
TRACK GRADE AND REHABILITATION (Includes all design, requisition, labor, materials, and installation)	\$0.00
RAILROAD ENGINEERING (Includes RAILROAD Labor for Reviewing Engineering Authorizations, Field Inspections and Administrative Labor)	\$0.00
PRELIMINARY ENGINEERING (Phase 1) (Includes CONTRACT Labor for all Engineering, Agency Coordination, and Project Management)	\$8,000.00
AGREEMENTS & APPROVALS (Phase 2) (Includes CONTRACT Labor for all Engineering, Agency Coordination, and Project Management)	\$5,000.00
CONSTRUCTION ENGINEERING (Phase 3) (Includes CONTRACT Labor for all Engineering, Agency Coordination, and Project Management)	\$8,000.00
CONSTRUCTION ENGINEERING INSPECTION (Estimated Construction Engineering Inspection cost based on 3 days @ \$1500 per day)	\$4,500.00
UTILITY CROSSING (0 new utility crossings @ \$4000 per crossing, includes application, engineering review, and right of entry)	\$0.00
RIGHT OF ENTRY FEE (Right of Entry Fee of \$1,500 is valid for 60 days, after 60 days, additional fees of \$750 per 30 days are required.)	\$0.00
FLAGGING SERVICES (Estimated Flagging Services cost based on 0 days @ \$1050 per day)	\$0.00
AC POWER SERVICE (Includes all Power Service Charges not included in other costs)	\$5,000.00
OTHER (Description Required)	\$0.00
TOTAL ESTIMATE COST	\$203,573.27 (USD)

DATE: 08/13/2012

RESPONSIBLE PARTY:

Name: ORDC
Number: 92945
Contact: Tim Perkins

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 WARNING SYSTEM - Signals

DATE: 08/13/2012

RR Code: (IORY)
Location: Indiana & Ohio Railway
Crossing Name: Blanchester, (Marion), OH
AAR\DOT#: Lazenby Street
RR Milepost: 151305N
RR Project #: 40.26
XORAIL Project #: IORYGC12014
Roadway Project # 9.29E+04

OFFICE OF THE DIRECTOR OF SIGNALS AND COMMUNICATIONS

ESTIMATED COST FOR HIGHWAY CROSSING WARNING DEVICES AT Lazenby Street.

MATERIAL	UNIT COST	UNITS	TOTAL COST
FLASHER ASSEMBLIES	\$0.00	0 Unit	\$0.00
GATE ASSEMBLIES	\$11,652.98	2 Unit	\$23,305.96
CANTILEVER ASSEMBLIES	\$0.00	0 Unit	\$0.00
BELLS	\$288.00	1 Unit	\$288.00
ADDITIONAL SIDELIGHTS	\$209.00	1 Unit	\$209.00
6'X6' WIRED CASE WITH EQUIPMENT	\$66,681.64	1 Unit	\$66,681.64
4'X4' WIRED CASE WITH EQUIPMENT	\$0.00	0 Unit	\$0.00
TRACK BONDING (DOUBLE BONDS)	\$0.00	0 Unit	\$0.00
ELIMINATE IJ'S (THERMITE WELDING+PLUGS)	\$500.00	12 Unit	\$6,000.00
CONDUIT & DIRECTIONAL BORE	\$36.00	80 Feet	\$2,880.00
TRENCHING (INCLUDES RENTAL EQUIPMENT)	\$0.00	0 Unit	\$0.00
CRIB WALL	\$0.00	0 Feet	\$0.00
POLELINE ELIMINATION	\$0.00	0 Feet	\$0.00
GROUND CLEARING/VEGETATION CONTROL	\$0.00	0 Unit	\$0.00
FREIGHT & HANDLING			\$4,968.23
TAX @ 6.5%			\$6,458.70
TOTAL MATERIALS			\$110,791.53
EXCAVATING EQUIPMENT PER DAY	\$417.00	10 Days	\$4,170.00
EQUIPMENT RENTAL PER DAY	\$200.00	10 Days	\$2,000.00
FOREMAN'S TRUCK PER DAY	\$224.70	10 Days	\$2,247.00
GANG TRUCK PER DAY	\$647.30	10 Days	\$6,473.00
SUPERVISOR'S TRUCK PER DAY	\$142.60	10 Days	\$1,426.00
EQUIPMENT TOTAL			\$16,316.00
ENGINEERING	\$5,500.00	1 LS	\$5,500.00
CONSTRUCTION SUPERVISION	\$364.00	10 Days	\$3,640.00
LABOR PER DAY	\$1,286.24	10 Days	\$12,862.40
GANG EXPENSES PER DAY	\$602.00	10 Days	\$6,020.00
LABOR ADDITIVE			\$9,701.76
ENGINEERING & LABOR TOTAL			\$37,724.16
SUB-TOTAL			\$164,831.69
CONTINGENCIES 5%			\$8,241.58
TOTAL			\$173,073.27

ESTIMATE - Exhibit A

PRELIMINARY ENGINEERING (Phase 1)**Pre-Construction Authorization**

08/13/2012

RR Code: (IORY)
Location: **Blanchester, (Marion), OH**
Crossing Name: **Lazenby Street**
AAR\DOT#: **151305N**
RR Milepost: **40.26**
RR Project #: **IORYGC12014**
XORAIL Project #: **VEM12-30279**
Roadway Project #: **9.29E+04**

TITLE	HOURS	RATE	AMOUNT
Project Manager	45	\$110.00	\$4,950.00
Preliminary Design Personnel	0	\$90.00	\$0.00
Site Surveyor	25	\$90.00	\$2,250.00
Cadd Draftsman	10	\$60.00	\$600.00
Secretarial/Administrative	4	\$50.00	\$200.00
Plan Review Fee (Flat Rate)	0	\$8,000.00	\$0.00
Preliminary Engineering Fee (Flat Rate)	0	\$8,000.00	\$0.00

TOTAL PRELIMINARY ENGINEERING PROJECT MANAGEMENT	\$8,000.00
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ESTIMATE - Exhibit E

AGREEMENTS & APPROVALS (Phase 2)**Pre-Construction Authorization**

08/13/2012

RR Code: (IORY)
Location: **Blanchester, (Marion), OH**
Crossing Name: **Lazenby Street**
AAR\DOT#: **151305N**
RR Milepost: **40.26**
RR Project #: **IORYGC12014**
XORAIL Project #: **VEM12-30279**
Roadway Project #: **9.29E+04**

TITLE	HOURS	RATE	AMOUNT
Project Manager	44	\$110.00	\$4,840.00
Preliminary Design Personnel	0	\$90.00	\$0.00
Site Surveyor	0	\$90.00	\$0.00
Cadd Draftsman	1	\$60.00	\$60.00
Secretarial/Administrative	2	\$50.00	\$100.00
TOTAL AGREEMENTS & APPROVALS PROJECT MANAGEMENT			\$5,000.00

ESTIMATE - Exhibit F

CONSTRUCTION ENGINEERING (Phase 3)**Post-Construction Authorization**

08/13/2012

RR Code: (IORY)
Location: **Blanchester, (Marion), OH**
Crossing Name: **Lazenby Street**
AAR\DOT#: **151305N**
RR Milepost: **40.26**
RR Project #: **IORYGC12014**
XORAIL Project #: **VEM12-30279**
Roadway Project #: **9.29E+04**

TITLE	HOURS	RATE	AMOUNT
Project Manager	64	\$110.00	\$7,040.00
Preliminary Design Personnel	0	\$90.00	\$0.00
Site Surveyor	0	\$90.00	\$0.00
Cadd Draftsman	6	\$60.00	\$360.00
Secretarial/Administrative	12	\$50.00	\$600.00

TOTAL CONTRACT ENGINEERING PROJECT MANAGEMENT	\$8,000.00
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ESTIMATE - Exhibit G

CONSTRUCTION ENGINEERING INSPECTION

08/13/2012

RR Code: (IORY)
Location: **Blanchester, (Marion), OH**
Crossing Name: **Lazenby Street**
AAR\DOT#: **151305N**
RR Milepost: **40.26**
RR Project #: **IORYGC12014**
XORAIL Project #: **VEM12-30279**
Roadway Project # **9.29E+04**

TITLE	Days	RATE	AMOUNT
Construction Inspector	3	\$1,500.00	\$4,500.00
TOTAL CONSTRUCTION INSPECTION			\$4,500.00

ESTIMATE - Exhibit H