Public Utilities Commission of Ohio

Memo

20114 MAY 29 AM 10: 3

To:

Docketing Division

From: George Martin, Grade Crossing Planner, Rail Division

Re:

In the matter of the authorization of Norfolk Southern Railway to install active grade crossing

warning devices in Hamilton County as part of the CJ Corridor Project

Date: May 29, 2014

The Ohio Rail Development Commission (ORDC) has authorized funding for Norfolk Southern Railway (NS) to install mast-mounted flashing lights and roadway gates at Hamilton County, City of Sharonville. Main St, DOT# 524713G, and Hamilton County, Village of Lockland, Dunn St, DOT# 524723M. The crossings were surveyed on May 2, 2013, and were found to warrant upgrades as part of the CJ Corridor improvement project.

The projects will be paid for with federal funds, and are actual cost. As the plans and estimates have already been submitted and approved, staff requests a Finding & Order 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. 14- 9 (0) -RR-FED In the matter of the authorization of Norfolk Southern Railway to install active grade crossing warning devices in Hamilton County as part of the CJ Corridor Project

C: Legal Department

Please serve the following parties of record

This is to certify that the mages appearing are an accurate and complete reproduction of a case file rechnician Date Processed A 2 Pechnician.

Ms Cathy Stout

Ohio Rail Development Commission

1980 West Broad St, Mailstop #3140

Columbus, Oh 43223

Ms Cayela Wimberly

Norfolk Southern Railway

1200 Peachtree St, Box 123

Atlanta, Ga 30309

Mr D Casey Talbot

Eastman & Smith Ltd

One Seagate, 24th Floor

PO Box 10032

Toledo, Oh 43699-0032

Mr Joe Kempe, Public Works Director

10900 Reading Road

Sharonville, OH 45241

Mr Dean Walden, Public Works Director

101 N Cooper Ave

Lockland, Oh 45215

Duke Energy

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 Jim Purking

SUBJECT: City of Sharonville, Hamilton County, HAM-Main Street, NS, DOT No. 524

713 G, PID No. 96032

DATE: May 27, 2014

ORDC GW

The Public Utilities Commission of Ohio (PUCO) established a diagnostic survey at the subject location on May 2, 2013. The Ohio Rail Development Commission (ODRC) 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 <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

II OHIO RAIL DEVELOPMENT COMMISSION

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

May 27, 2014

Cayela J. Wimberly Administrator, Highway Grade Crossings Norfolk Southern Corporation 1200 Peachtree Street, N.E., Box 123 Atlanta, Georgia 30309

RE: City of Sharonville, Hamilton County, Main Street, DOT No. 524 713 G, PID 96032, Mile Post: CJ 246.20, S&E Project No. 10.2115

Dear Ms. Wimberly:

The Norfolk Southern (NS) plan and estimate dated May 2, 2013, in the amount of \$40,375.00 for the referenced project has been reviewed and is acceptable. NS may proceed with the construction of the proposed grade crossing warning system in accordance with the abbreviated plan. 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 \$30,281.25. Additional costs must be approved in writing by the 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 NS accepting the following instructions:

- 1. NS will furnish prior written notification of their scheduled date to start construction to George Martin, PUCO, Railroad Division.
- 2. NS's project foreman will furnish FAX or written notification five (5) working days prior to the date work will start at the project site to Tim Perkins, Ohio Rail Development Commission (ORDC), 1980 West Broad Street, Columbus, Ohio 43223, email Tim.Perkins@dot.state.oh.us or FAX (614) 728-4520, (telephone number 614-644-0284), and to the Public Utilities Commission of Ohio at 180 East Broad Street, Columbus, Ohio 43215, email George.martin@puc.state.oh.us, (telephone number 614-752-9107). NS'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.
- 3. NS 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 NS.
- 4. NS's project foremen will notify Tim Perkins 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.

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www.rail.ohio.gov phone: 614.644.0306

IMPROVING RAIL TODAY FOR TOMORROW'S ECONOMY

- 5. NS will furnish two (2) copies of each partial bill to ORDC. Please find the enclosed Encumbrance Estimate to reference when billing.
- 6. NS 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 MUCTD.

Thank you for your assistance with these matters.

Sincerely,

Tim Perkins Project Manager

Sim Perkine

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

OHIO RAIL DEVELOPMENT COMMISSION

Diagnostic Review Team Survey

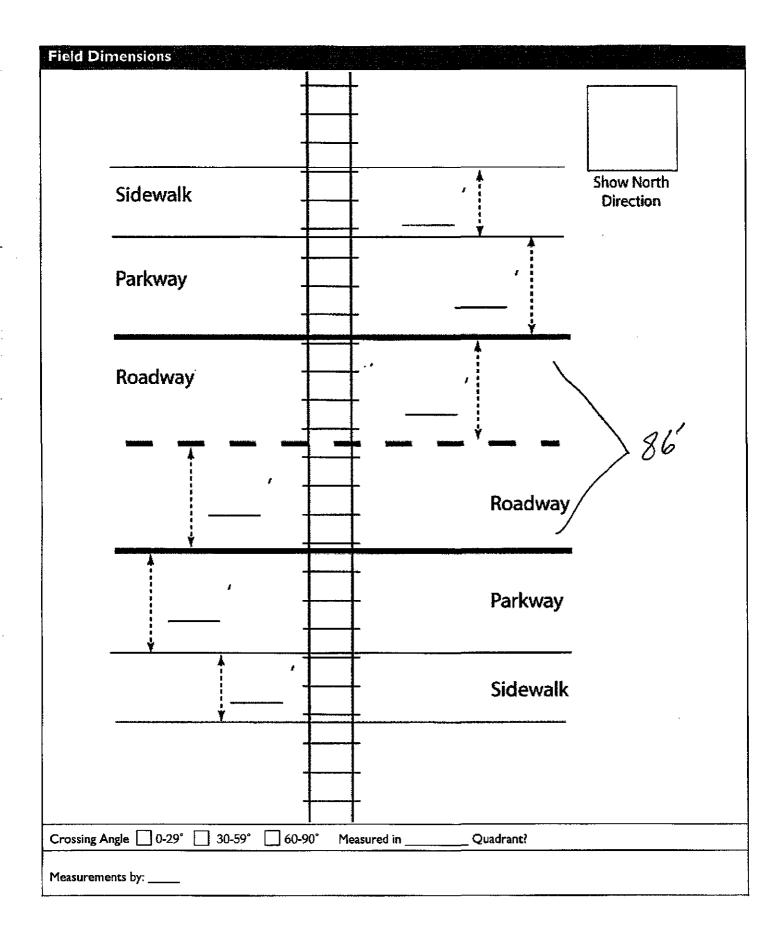
Reason for Survey: (e.g. formula, accident, constituent, etc.) C.J. Corri	dor		Date: 5/2	<i>U</i> 13	
Location Data					
Street or Road Name: Main St.			**************************************		
Route/Road Number (i.e. Twp., Co., SR or US)			US DOT No.:	524713G	
County: HAM Township:		City: (In or Near)	Sharonville		
Railroad Name: Norfolk Southern	Railroad Division: Dearborn			Branch/Line Name:	Cincinnati LI
Nearest RR Timetable Station: Sharonville			RR Milepost:	246.2	
On-Site Review Team					
(Include: Name - Organization - Phone Number - I	Email)				
1. Joe Kemp, Sharonville – 513-678-1563					
2. Chad Meadows, Sharonville - 513-678-	1558				
1. / 1/					
4. The Could			-		
5. Jan Kours					
7. Perrick Osak, N					
					
8 Nick Guell M	*				
8. Nick Guell MS 9. GEORGE MARTIN	Puco (J4-750	2-9107		
	Prco (614 - 756	2-9107		
Existing Traffic Control Devices					
Existing Traffic Control Devices Type of Warning Devices	Installe	d?		Quantity/Co	omments
Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs (condition?)	Installe Yes	d? □ No		Quantity/Co	omments
Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs	mstalle Yes Yes	d? □ No ĽÝNo		Quantity/Co	omments
Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs	mstalle Yes Yes Yes	d? □ No □ No □ No		Quantity/Co	omments
Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs	mstalle Yes Yes	d? □ No ĽÝNo		Quantity/Co	omments
Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks	mstalle ☐ Yes ☐ Yes ☐ Yes ☐ Yes ☐ Yes ☐ Yes	d? No Vo No No			omments
Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs	mstalle ☐ Yes	d? No No No No No		Quantity/Co	omments
Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs Inventory Tags	res res res res res res res res res	d? No No No No No			omments
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Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs Inventory Tags	res res res res res res res res res	d? No No No No No		trach	omments
Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs Inventory Tags Interconnected Highway Traffic Signal	Mstalle Yes	d? No No No No No No No No		trach	Demments Length:
Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs Inventory Tags Interconnected Highway Traffic Signal Mast-Mounted Flashing Lights	Mstalle Yes	d? No No No No No No No No		trach	
Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs Inventory Tags Interconnected Highway Traffic Signal Mast-Mounted Flashing Lights Cantilever Flashing Lights	res	d? No		trach	
Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs Inventory Tags Interconnected Highway Traffic Signal Mast-Mounted Flashing Lights Cantilever Flashing Lights Side Lights	Mstalle Yes	d? No No No No No No No N	Number:	trach	Length:
Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs (condition?) "Stop' Signs "Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs Inventory Tags Interconnected Highway Traffic Signal Mast-Mounted Flashing Lights Cantilever Flashing Lights Side Lights Automatic Gates	Yes Yes	d? No	Number:	trach	Length:
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Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs Inventory Tags Interconnected Highway Traffic Signal Mast-Mounted Flashing Lights Cantilever Flashing Lights Side Lights Automatic Gates Bells Sidewalk Gate Arms 'No Turn' Signs	Yes Yes	d? No No No No No No No N	Number:	trach	Length:

Safety Data (Obtain c	rash repo	rts, if possible, prior to review)		
	Ini	Revised		
Number & dates of crashes in previous 5 years		/1/98)		
Hazard Ranking	474	Date Run: 4/18/13		
Railroad Data				
Railroad Characteri	stics	Initial Information (from database)	Revised	
Total trains per day		18		
< I per day				
Day thru trains		6		
Night thru trains		10		
Daytime switching moveme	ents	2		
Nighttime switching mover	nents	0		
Total number of tracks		2		
Number of main tracks		2		
Number of other tracks		0		
Maximum train speed		40		
Typical train speed	<u>.</u> .			
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 trai	ns occupy cr	ossing at the same time? Pres No		
Can one train block the moto	rists' view of	another train at crossing? Yes (Explain be	elow) 🗌 No	
Can one or more tracks be el	iminated thro	ough the crossing? Yes Wo	<u> </u>	
		roadway within 100 ft of this crossing?	Yes No	
If yes, Crossing DOT #(if o				
If yes, distance	(take me	asurement between track centerlines at close	est point along roadway)	
Roadway Data			机工作的 医现代检查性 医多种毒素	
Local Highway Authority:		Village of Sharonville		
Roadway Character	istics	Initial Information (from database)	Revised	
Average daily traffic	····	6381 (2006)		
Highway paved		X Yes	☐ Yes ☐ No	
Roadway Surface: Blacktop	Gravel	Concrete Other		
Roadway width: BU ft.				
Number of highway lanes		7	4	
Urban or Rural		Urban		
Vehicle Speed 35 MPH				
School Bus Operation: N	y (Yes)	Amount Unhown		
Hazardous Materials Trucks:	□ No	Yes Amount		
Shoulders: No	'es			
Is the shoulder surfaced?	No 🗆	Yes /		
Is there existing guardrail alon	g roadway in	crossing vicinity? Lino Tes		
Is stopping site distance adequ	Is stopping site distance adequate? (See Table 2) Yes You If no, deficient approach(es) and walk			

	100/
Quadrant St 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 Curb will be replaced	None New curb
Pedestrians: No Ves	
Is sidewalk present? No Yes	
Is there a nearby intersection that could cause queuing over the c	rossing? No Yes Unknown
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	-
location in the foreseeable future? Vo Yes	by new or upgraded traffic signal, sidewalk) planned at or near this
If yes, Improvement typeLead AgencyLead Agency	Timeline/completion
Is it the consensus of the Diagnostic Review Team that this is a po Explain reasons:	otential closure project: No Yes
·	
	en en en la companya de la companya
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)	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 I No [Unknown
Is(are) there potential utility conflict(s) Yes INO [Comments: Existing Cantilever, hights as upgraded in men a on cantilever	nd Gates will be
Charles on the	to med a man little
upgraded. il. new y	are much, men inguis
on auntiliner	
on canasa.	
ł	

Potential Red Flags / Project Challenges
Traffic Signal Preemption (include traffic signal intersection name and LHA with jurisdiction over traffic signal, if known):
N/A
77.
Crossing Consolidation or Closure:
N/A
Real Estate or ROW:
$N/_{\alpha}$
PA
Culverts / Drainage / Ballast Conditions:
N/A
Roadway and/or Sidewalks:
Curl + sidewalk by Sharonirlle but
Carr + made any small news xv.
Circuitry (e.g. reaches out to other crossings, specific needs, etc.):
N/A
Environmental:
N/A
Other:

Diagnostic Team Recommendations	
	Quadrants Needed
Install/upgrade active devices	
Automatic Flashing Lights (AFLS)	
AFLS /Cants	
AFLS / Gates	
AFLS / Gates / Cants	
Bells / number	
Upgrade circuitry / type	
Sidelights	
Guardrail Needed	
☐ Install/Replace curb	
Bungalow placement & offset from rail & highway	
Other (define)	
Comments: Existing Cantilevers, Lights ie new gate mechs, so and use the existing circuity	new lights on cantilevers.
Install/upgrade traffic signal preemption	
☐ No improvements needed	
Other (define)	
Acknowledgement of Recommendations (each entity represented	at the diagnostic must have at least one signature
acknowledgement); July July July July Land	Cap Mad
Inner my revisions	<u> </u>



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:

TABLE I

Clearing Sight Distances

Maximum Authorized Train Speed	Distance (dT) Along Railroad from Crossing (ft)
1 - 10	240
15	360
20	480
25	600
30	720
35	840
40	960
45	1080
50	1200
55	1320
60	1440
65	1560
70	1680
75	1800
80	1920
85	2040
90	2160

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

Notes:

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

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

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

Table 2

Stopping Sight Distances

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

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

Notes:

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

Distances indicated are for 65-ft double bottom semi-tractor trailers on dry level pavements.

Stopping Sight Distance is to be measured on each roadway approach to crossing from stop bar.

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 Jan Purking

SUBJECT: Village of Lockland, HAM-Dunn Street, NS, DOT No. 524 723 M,

PID No. 96023

DATE: May 27, 2014

ORDC Gm

The Public Utilities Commission of Ohio (PUCO) established a diagnostic survey at the subject location on May 2, 2013. The Ohio Rail Development Commission (ODRC) 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.

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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

|| OHIO RAIL DEVELOPMENT COMMISSION



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

May 27, 2014

Cayela J. Wimberly Administrator, Highway Grade Crossings Norfolk Southern Corporation 1200 Peachtree Street, N.E., Box 123 Atlanta, Georgia 30309

RE: Village of Lockland, Hamilton County, Dunn Street, DOT No. 524 723 M, PID 96023,

Mile Post: CJ 250.30, S&E Project No. 10.2117

Dear Ms. Wimberly:

The Norfolk Southern (NS) plan and estimate dated April 21, 2014, in the amount of \$170,919.00 for the referenced project has been reviewed and is acceptable. NS may proceed with the construction of the proposed grade crossing warning system in accordance with the abbreviated plan. 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 \$128,189.25. Additional costs must be approved in writing by the 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.

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www.rail.ohio.gov phone: 614.644.0306

IMPROVING RAIL TODAY FOR TOMORROW'S ECONOMY

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Thank you for your assistance with these matters.

Sincerely,

Tim Perkins Project Manager

Sim Perkine

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

OHIO RAIL DEVELOPMENT COMMISSION

Diagnostic Review Team Survey

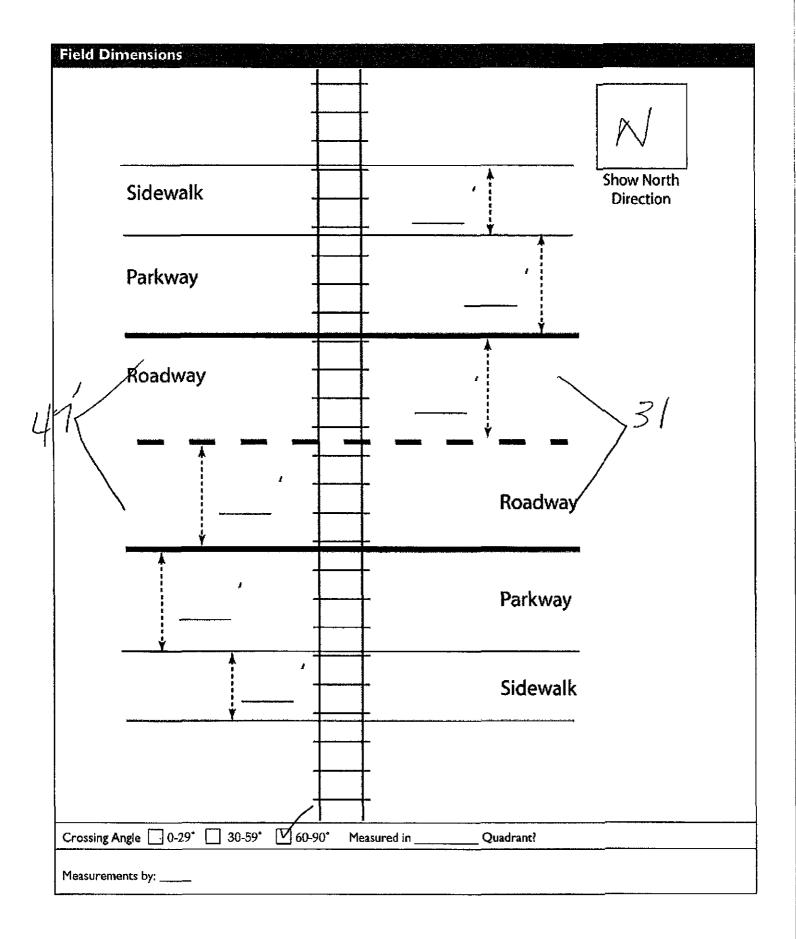
Reason for Survey: C.J. Corr	idor	Date: 5/2/13
Location Data		
Street or Road Name: Dunn Street		
Route/Road Number (i.e. Twp., Co., SR or US)		US DOT No.: 524723M
County: HAM Township:	City: (In o	Near) Lockland
Railroad Name: Norfolk Southern	Railroad Division: Dearborn	Branch/Line Cincinnati LI Name:
Nearest RR Timetable Station: Evendale		RR Milepost: 250.5
On-Site Review Team		
(Include: Name - Organization - Phone Number -	Email\	
<i>A</i> = -// -		-644.0284
2 Tread Welden		513-133-0957
3 DAY Soloster	Lockland	0022-157-612
4 Descit to Dealer	h) (304-712-0220
5. DALIA KRINGI	LOCKLANIS	C13 474 1146
6. DONALD DAMRON	MADO	614 466 2509
7. Nick Covell	NS	
8.	,-2	
9.		
9.		
	William to the second of the s	The second secon
Existing Traffic Control Devices		
Type of Warning Devices	Installed?	Quantity/Comments
Advance Warning Signs (condition?)	✓ Yes	
'Stop' Signs		
	☐ Yes ☑ N	0
'Stop Ahead' Signs	Yes UN	0
'Stop Ahead' Signs Pavement Markings (condition?)	Yes N	o o o
'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks	Yes N	o
'Stop Ahead' Signs Pavement Markings (condition?)	Yes N Yes N Yes N Yes N	o
'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks	Yes N	0 0 0 0 9
'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs	Yes N Yes N Yes N	o
'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs Inventory Tags	Yes N Yes N Yes N Yes N	0
'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs Inventory Tags Interconnected Highway Traffic Signal	Yes N Ves N Ves N Ves N Ves N Ves N Ves N	
'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs Inventory Tags Interconnected Highway Traffic Signal Mast-Mounted Flashing Lights	Yes N	o
'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 N Yes N Yes N	o
'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs Inventory Tags Interconnected Highway Traffic Signal Mast-Mounted Flashing Lights Cantilever Flashing Lights Side Lights	Yes N N Yes N N Yes N N	o
'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	Yes N Yes N Yes N Yes N	o
'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	o
'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 N Yes N Yes N Yes N	o

Other		Yes No		
Safety Data (Obtain cr	ash repor	ts, if possible, prior to review)		
	lnit	Revised		
Number & dates of crashes	0			
in previous 5 years				
Hazard Ranking	1731	Date Run: 4/18/13	n Karan Sakaria da Karan Baran B	
Railroad Data		경소들 나는 살님이 오는데 되었다.	(4) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	
Railroad Characteris	tics	Initial Information (from database)	Revised	
Total trains per day		18	40	
< I per day				
Day thru trains		6		
Night thru trains Daytime switching moveme	mer	10		
Nighttime switching movem		0		
Total number of tracks	rents	2		
Number of main tracks		2		
Number of other tracks		0		
Maximum train speed		40		
Typical train speed				
Amtrak				
If non-gated crossing, is clearing sight distance adequate in all quadrants? (See Table I) Yes No				
If multiple tracks, can two train	ns occupy cro	ssing at the same time? Yes No		
Can one train block the motor	ists' view of a	nother train at crossing? PYes (Explain be	low) 🔲 No	
Can one or more tracks be eli			· —	
Are there other track(s) crossing this same roadway within 100 ft of this crossing? Yes No				
If yes, Crossing DOT #(if d If yes, distance		surement between track centerlines at closes	st point along roadway)	
Roadway Data				
Local Highway Authority:		Village of Lockland		
Roadway Characteri	stics	Initial Information (from database)	Revised	
Average daily traffic		1001 (2006)		
Highway paved		X Yes No	Yes No	
Roadway Surface: Blacktop	Gravel [Concrete Other		
Roadway width:ft.	411	31'		
Number of highway lanes		2		
Urban or Rural		Urban		
Vehicle Speed: MPH				
School Bus Operation: V No	Yes	/Amount		
Hazardous Materials Trucks:	No	Yes Amount		
	es es			
		Yes /		
Is there existing guardrail along				
Is stopping site distance adequate? (See Table 2) Yes No If no, deficient approach(es)				

Functional (Curb height = 4" or more)	
☐ Non-functional (Curb height = Less than 4") ☐ Non-functional (Curb height = Less than 4")	
[] None	
Pedestrians: No Yes	
Is sidewalk present? No UYes	
Is there a nearby intersection that could cause queuing over the crossing? No Yes	
If yes, Distance	
Is this intersection signalized? No Yes	
Are the signals currently interconnected with the existing crossing warning devices? No	
Is there a 'Do not Stop on Track' sign? No Yes	
Is a roadway improvement project (e.g. widening, turn lanes, nearby new or upgraded traffic signal, sidewalk) planned at or relocation in the foreseeable future? To Yes if yes,	near this
Improvement typeLead AgencyTimeline/completion	
Is it the consensus of the Diagnostic Review Team that this is a potential closure project: No Yes	
Explain reasons:	
Type of Development	
Open Space Institutional Location of nearby schools:	
☐ Industrial	
Residential	
Utility Information	
Is commercial power available? No Yes	
Utility Provider (Company Name) Phone Number	-
Nearest Available Power Source	=
What other utilities are present? Gas Cable Telephone Fiber Optic Cable (add locations to sketch) Water Sanitary Sewer Other	•
Is(are) there potential utility conflict(s) Yes No Unknown	
Comments:	

Potential Red Flags / Project Challenges
Traffic Signal Preemption (include traffic signal intersection name and LHA with jurisdiction over traffic signal, if known):
V/A
Crossing Consolidation or Closure:
N/A
Real Estate or ROW;
$\mathcal{N}_{\mathcal{A}}$
Culverts / Drainage / Ballast Conditions:
N/4
Roadway and/or Sidewalks:
NA
Circuitry (e.g. reaches out to other crossings, specific needs, etc.):
N/A
Environmental:
N/A
Other:

Diagnostic Team Recommendations	
/	Quadrants Needed
Install/upgrade active devices	
Automatic Flashing Lights (AFLS)	
AFLS/Cants	
AFLS / Gates	
AFLS / Gates / Cants	
Belis / number	
Upgrade circuitry / type	
Sidelights	
Guardrail Needed	
☐ Install/Replace curb	
Bungalow placement & offset from rail & highway	
Other (define)	
Install/upgrade traffic signal preemption	
No improvements needed	
Other (define)	
Acknowledgement of Recommendations (each entity represent	ted at the diagnostic must have at least one signature
acknowledgement):	
Que for Chao Ky!	When
Tim Herberger All for	ell
Sou & Malla (4) mill ()	mrer_



Field Sketch
Include utilities as marked by OUPS and LHA; include ROW boundaries as indicated by railroad and LHA.
C
Crossing Angle 0-29° 30-59° 60-90° Measured in Quadrant?
Sketch by:
41/4/41 0/1

TABLE I

Clearing Sight Distances

Maximum Authorized Train Speed	Distance (dT) Along Railroad from Crossing (ft)
1 - 10	240
15	360
20	480
25	600
30	720
35	840
40	960
45	1080
50	1200
55	1320
60	1440
65	1560
70	1680
75	1800
80	1920
85	2040
90	2160

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

Notes:

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

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

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

Table 2

Stopping Sight Distances

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

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.

