NUELE

Memo

Date:	June 2, 2014
Re:	In the matter of the authorization of Norfolk Southern Railway to install an active grade crossing warning device in Hamilton County as part of the CJ Corridor Project
From:	George Martin, Grade Crossing Planner, Rail Division
To:	Docketing Division

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, E Kemper Rd, DOT# 524712A. The crossing was surveyed on May 2, 2013, and was found to warrant the upgrade as part of the CJ Corridor improvement project.

The project will be paid for with federal funds, and is actual cost. As the plan and estimate has already been submitted and approved, staff requests a Finding & Order with completion of the project 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- UOX -RR-FED In the matter of the authorization of Norfolk Southern Railway to install an active grade crossing warning device in Hamilton County as part of the CJ Corridor Project

RECEIVED-DOCKETING DIV

C: Legal Department

Please serve the following parties of record

Page 1

This is to certify that the images appearing are an accurate and complete reproduction of a case file	
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Technician Date ProcessedUN_02_3	117

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

Duke Energy

OHIO RAIL DEVELOPMENT COMMISSION INTER-OFFICE COMMUNICATION

то:	George Martin, Rail Division, PUCO	
FROM:	Cathy Stout, Manager, Safety Section, ORDC	
BY:	Tim Perkins, Project Manager Jim Purkim.	
SUBJECT:	City of Sharonville, HAM-E. Kemper Road, NS, DOT No. 524 712 A, PID No. 96031	
DATE:	May 30, 2014	

The Ohio Rail Development Commission (ORDC) established a diagnostic survey at the subject location on May 2, 2013. The Public Utilities Commission of Ohio (PUCO) attended the review. The Diagnostic Team recommended the modernization of the existing warning devices. 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 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: George Martin, PUCO 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

May 30, 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, E. Kemper Road, DOT No. 524 712 A, PID 96031, Mile Post: CJ 245.50, S&E Project No. 10.2064

Dear Ms. Wimberly:

The Norfolk Southern (NS) plan and estimate dated May 14, 2014, in the amount of \$111,109.00 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 \$83,331.75. 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.



- 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,

Jim Purkine.

Tim Perkins Project Manager

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

OHIO RAIL DEVELOPMENT COMMISSION

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

Diagnostic Review Team Survey

Location Data Stree or Rod Nume: E. Kemper Rd. RouteRoad Nume: E. Kemper Rd. RouteRoad Number: B. 100 Cours: HAM Townsky: City: Name: Norfolk Southern Name: Dearborn Name: Railroad Division: Sharonville Name: Norfolk Southern Name: Norfolk Southern Name: Norfolk Southern Name: Railroad Donsite Railroad Division: Sharonville Sharonville-513678-1563 Cfar AlcS MMD N - 7UCO 1. joe Kemp, Sharonville-513678-1553 G14 - 152 - 9107 2. Chad Machaws, Sharonville -513678-1553 G14 - 152 - 9107 3. Join: Mathema: OR DC J. Or Kemps Shart Saville, r 573 - 58 - 1177 S. Agrec 74 Duale: MS Song 72 - 503 Song 72 - 503 - 1177 8. Jay: Kerros CDS Assoc: Sinc: 9. Jak: Gor Actil: C 10 - 100 70pe of Warning Devices Installed? Quanti	Reason for Survey: (e.g. formula, accident, constituent, etc.)	Corridor	Date: 5/2/13
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Illumination If es No Is crossing flagged by train crew? If Yes No			
Is crossing flagged by train crew?			
			· · · · · ·
	Other.		

Safety Data (Obtain		orts, if possible, prior to review)		
	In	itial Information (from database)	Revised	
Number & dates of crashes in previous 5 years	0			
Hazard Ranking	635	Date Run: 4/18/13		
Railroad Data				
Railroad Character	istics	Initial Information (from database)	Revised	
Total trains per day		18		
< 1 per day				
Day thru trains	·····	6		
Night thru trains		10		
Daytime switching mover		2		
Nighttime switching mov	ements	0		
Total number of tracks		2		
Number of main tracks		2		
Number of other tracks		0 40	#130mph #225mph	
Maximum train speed Typical train speed	. <u> </u>		+ 1 JUMPA " 2 23 MAR	
Amtrak				
		nce adequate in all quadrants? (See Table 1)	∏Yes ∏No	
Can one or more tracks be Are there other track(s) cro If yes, Crossing DOT #(if If yes, distance	ssing this sam different)	ough the crossing? Yes No e roadway within 100 ft of this crossing?		
Roadway Data				
Local Highway Authority:	· · · · ·	Village of Sharonville		
Roadway Characte	ristics	Initial Information (from database)	Revised	
Average daily traffic	· · · · · · · · · · · · · · · · · · ·	8872 (2006)		
Highway paved	······	X Yes No	Yes No	
Roadway Surface: Blackto				
Roadway width:ft_				
Number of highway lanes		2		
Urban or Rural		Urban		
Vehicle Speed: 35 MPH				
School Bus Operation: No Amount				
Hazardous Materials Trucks: No 19 Yes Amount				
Shoulders: No Yes				
Is the shoulder surfaced?	No C] Yes		
Is there existing guardrail alc	ng roadway ii	n crossing vicinity? 🗌 No 🛛 🗹 Yes		
Is stopping site distance adequate? (See Table 2) 🚺 Yes 🗌 No If no, deficient approach(es)				

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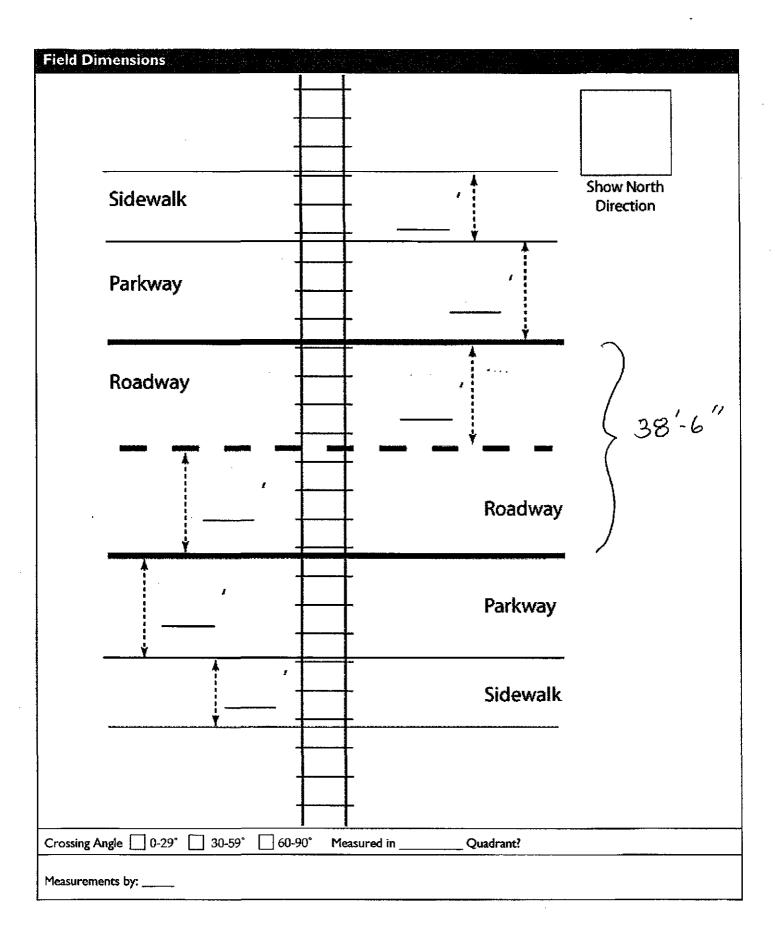
Quadrant Curb and Gutter:	Quadrant Curb and Gutter:	
Functional (Curb height = 4" or more)	Functional (Curb height = 4" or more)	
Non-functional (Curb height = Less than 4")	Non-functional (Curb height = Less than 4")	
[] None	☑ None	
Pedestrians: No Yes		
Is sidewalk present? No Yes		
Is there a nearby intersection that could cause queuing over the cr	rossing? No Yes	
If yes, Distance		
ls this intersection signalized? 🗌 No 🔤 Yes	1	
Are the signals currently interconnected with the existing crossi	ng warning devices? 🔲 No 🛛 📝 Yes	
Is there a 'Do not Stop on Track' sign? No Yes		
Is a roadway improvement project (e.g., widening, turn lanes, near location in the foreseeable future? [7] No [7] Yes	y 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 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 CY 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) Petroleum Water Sanitary Sewer Other Other Other		
Is(are) there potential utility conflict(s) [] Yes [] No [Unknown	
Comments: Das 12" transmission, no	digging within 15' without call	
Existing Cantileree, hights	and Dates will be	
upgraded le nen gal	e merho, new lights	
on cantiliver.		

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

Diagnostic Team Recommendations	
1	Quadrants Needed
Installupgrade active devices	
Automatic Flashing Lights (AFLS)	
AFLS /Cants	
AFLS / Gates	
AFLS / Gates / Cants	
Bells / number	
Upgrade ain ait / 1700	
Sidelights	·
Guardrail Needed	
install/Replace curb	
Bungalow placement & offset from rail & highway	
Other (define)	
Comments: Existing Cantiliver, hight upgraded ic new gat on Cantilivers and un.	te mech, new lights Wisting circuity.
Install/upgrade traffic signal preemption	
No improvements needed	
Other (define)	
Acknowledgement of Recommendations (each entity represented acknowledgement): <u>Innotity Restant</u> <u>Jun Kenn</u> <u>Jun Kenn</u>	at the diagnostic must have at least onersignature
	Colupi IV a
	U U



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

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TABLE |

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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.