

RECEIVED-DOCKETING DIV

Public Utilities Commission of Ohio

2015 JUN -2 PM 2:03

PUCO

Memo

15-1054-RR-FED

To:

Docketing Division

From: George Martin, Grade Crossing Planner, Rail Division

Re:

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

warning devices in Athens County

Date:

June 2, 2015

The Ohio Rail Development Commission (ORDC) has authorized funding for Norfolk Southern Railway (NS) to install mast-mounted flashing lights and roadway gates at Athens County, Village of Glouster, Braun St, DOT# 513476S, approved cost \$232,308.00. The crossing was surveyed on October 16, 2014 due to its hazard ranking 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 in the above referenced amount has already been approved, staff requests a Finding & Order with completion 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. 15- 105 4 -RR-FED In the matter of the authorization of Norfolk Southern Railway to install an active grade crossing warning device in Athens County

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 document delivered in the regular course of busi __Date Processed

Ms Cathy Stout

Ohio Rail Development Commission

1980 West Broad St, Mailstop #3140

Columbus, Oh 43223

Mr Stephen Klinger

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 Miles Wolf, Mayor

16 Front St

Glouster, Oh 45732

Village of Glouster Utility Department

16 Front St

Glouster, Oh 45732

OHIO RAIL DEVELOPMENT COMMISSION INTER-OFFICE COMMUNICATION

TO:

George Martin, Rail Division, PUCO

FROM:

Cathy Stout, Manager, Safety Section, ORDC

BY:

Joe Reinhardt, Project Manager, OR

SUBJECT:

Athens County, Braun Street, DOT 513476S

DOT 4513476S, PID 99304

DATE:

June 1, 2015

The Public Utilities Commission of Ohio (PUCO) established a diagnostic survey at the subject location on Braun Street. 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 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

c:

George Martin, PUCO

ORDC Project Manager (file)



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

June 1, 2015

Mr. Stephen Klinger Public Projects Engineer 1200 Peach Street NE, Box 123 Atlanta, Ga. 30309

RE:

Athens County, Braun Street, DOT 513476S

PID# 99304, NS Project 10.2147

Dear Mr. Klinger:

The plan and estimate dated April 7, 2015, 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 \$232,308.00. 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 NS accepting the following instructions:

- 1. NS's project foreman will furnish written notification five (5) working days prior to the date work will start at the project site to Joe Reinhardt, ORDC, email joe.reinhardt@dot.state.oh.us and to the Public Utilities Commission of Ohio at George.martin@puc.state.oh.us. 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.
- 2. 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.
- 3. NS's project foremen will notify Joe Reinhardt at 614-580-7728 (telephone) or joe.reinhardt@dot.state.oh.us (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. NS will furnish two (2) copies of each partial bill to ORDC. Please find the enclosed ODOT Purchase Order to reference when billing.



www.rail.ohio.gov phone: 614.644.0306
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- 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 MUTCD.

Thank you for your assistance with these matters.

Sincerely,

Joseph Reinhardt Project Manager

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

OHIO RAIL DEVELOPMENT COMMISSION

Diagnostic Review Team Survey

Reason for Survey: (e.g. formula, accident, constituent, etc.)			Date: 10/16/201	4
Location Data				
Street or Road Name: Braun Street				
Route/Road Number (i.e. Twp., Co., SR or US)			US DOT No.: 5134	176S
County: ATH Township:		City: (In or Near)	Village of Glouster	
Railroad Name: Norfolk Southern	Railroad Pocahontas		Branch/L Name:	^{ine} West Virginia
Nearest RR Timetable Station: Glouster			RR Milepost: 67.	31
On-Site Review Team				
(Include: Name - Organization - Phone Number - 1				
1. TIM PERKINS		614.644.0		
	PUCS 1	614-752-	9107	
3. (lensic) miks wolf mo	yok 74	0-591-	3739	
4. JOSHVA ELZEY PU	co 740	0-637-05	88	
5				
6				<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>
7				
8				
9				
Existing Traffic Control Devices				
Type of Warning Devices	Installed	**************************************	Quanti	ty/Comments
Advance Warning Signs (condition?)	Yes	□ No		<u> </u>
'Stop' Signs		☑No		
'Stop Ahead' Signs	Yes	No		
Pavement Markings (condition?)	Yes	<u>₩</u>		
Crossbucks	☑ Yes	□ No		· · · · · · · · · · · · · · · · · · ·
Number of Tracks Signs	Yes	☑No		
Inventory Tags	☐ Yes	□ No		
Interconnected Highway Traffic Signal Mast-Mounted Flashing Lights	Yes	ŪN₀		
Cantilever Flashing Lights	Yes Yes	17No	Niverbow	1
Side Lights		ĽNo ZNo	Number:	Length:
Automatic Gates	Yes	<u>140</u> □140	Number:	Length;
Bells	Yes	<u>1</u> √N₀	Number:	Cengui->
Sidewalk Gate Arms	Yes	14No	1 Talliport	,
'No Turn' Signs	Yes	PNo		**************************************
Illumination	Yes	4No		
Is crossing flagged by train crew?	☐Yes	2/No		
Other	Yes	□ No	- 	
			····	

Safety Data (Obtain o	rash repo	orts, if possible, prior to review)	
The second secon		itial Information (from database)	Revised
Number & dates of crashes in previous 5 years	0		
Hazard Ranking	1357	Date Run: 9/5/2014	
Railroad Data			
Railroad Character	stics	Initial Information (from database)	Revised
Total trains per day		4	
< 1 per day			
Day thru trains		2	
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		30	
Typical train speed		30	
Amtrak			
If non-gated crossing, is clear	ng sight dista	nnce adequate in all quadrants? (See Table I)	Yes WNo
if multiple tracks, can two tra	ins occupy c	rossing at the same time? Yes No	
Can one train block the moto	rists' view o	f another train at crossing? 🔲 Yes (Explain be	elow) 🔲 No
Can one or more tracks be e	liminated thr	ough the crossing? Tyes No	
Are there other track(s) cros	sing this sam	e roadway within 100 ft of this crossing?	Yes □ No
If yes, Crossing DOT #(if If yes, distance	different)	easurement between track centerlines at close	_
Roadway Data			
Local Highway Authority:		Village of Glouster	
Roadway Character	istics	Initial Information (from database)	Revised
Average daily traffic		1073 (2008)	
Highway paved		☐ Yes ☐ No	Yes No
Roadway Surface: Blackto	p Grave	Concrete Other	
Roadway width: 26 ft.	<u> </u>		
Number of highway lanes	-	2.	
Urban or Rural		Urlan	
Vehicle Speed: 20 MPH		200000	
			<u></u>
School Bus Operation:			
Hazardous Materials Trucks:	☐ No	Yes Amount Unknows =	
	Yes		
	No [Yes	
Is there existing guardrail alo	<u> </u>		
Is stopping site distance adeq	uate? (See Ta	ıble 2) 🛂 Yes 🔲 No If no, deficient :	approach(es)

Quadrant	Curb and Gutter:	Quadrant Curb and	Gutter
Quadrant Curb and Gutter: [Functional (Curb height = 4" or more)		Functional (Curb height = 4" or	
Non-functional (Curb height = Less than 4")		Non-functional (Curb height = L	·
None None		- None	ess criati i y
Pedestrians: No	Yes		
Is sidewalk present?	No Yes		
=	ction that could cause queuing over the c	rossing? No Yes	
If yes, Distance			
Is this intersection sign	alized? No Yes		
Are the signals current	tly interconnected with the existing cross	ing warning devices? 🔲 No 🔻 🗎 Y	es
Is there a 'Do not Stop	on Track' sign? No Yes		
location in the foreseeab	nt project (e.g. widening, turn lanes, near le future?	by new or upgraded traffic signal, sidewa	lk) planned at or near this
If yes, Improvement type	Lead Agency	Timeline/comp	letion
			
Is it the consensus of the Explain reasons:	Diagnostic Review Team that this is a po	otential closure project: No] Yes
_ 			
Type of Developn	alga yakan dan bara Alama katan dan 1981 dan Alama Alama Alama Alama Karaman dan Karaman dan Karaman dan Karam		
Open Space	Institutional Location of nearb	y schools:	
☐ Industrial	「Commercial		
Residential			e aparamento sida da Partina con de Alba d
Utility Informatio			
Is commercial power ava	ny Name) Village		
Utility Provider (Compa	ny Name) Vullage	Phone Number	
Nearest Available Power	Source		
What other utilities are (add locations to sketc		☐ Telephone ☐ Fiber Opti ☐ Sanitary Sewer	c Cable
Is(are) there potential ut	tility conflict(s) Tes No	Unknown	
Comments:	inty connects) Tes [] NO	Onkilowii	
Comments:			•

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: N/A	
Real Estate or ROW:	
Culverts / Drainage / Ballast Conditions:	
Roadway and/or Sidewalks:	
N/A	
Circuitry (e.g. reaches out to other crossings, specific needs, etc.): N/A	
Environmental: A/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:	
☐ Install/upgrade traffic signal preemption	
☐ No improvements needed	
Other (define)	
Acknowledgement of Recommendations (each entity repres	sented at the diagnostic must have at least one signature
acknowledgement):	
Gm L:	<i>G</i> .
Gm L.	
TE	

Field Dimensions **Show North** Sidewalk Direction Parkway Roadway 13 Roadway Parkway Sidewalk Measured in SW Crossing Angle 0-29° 30-59° 60-90° Quadrant? Measurements by:

Field Sketch Include utilities as marked by OUPS and LHA; include ROW boundaries as indicated by railroad and LHA.	
The state of the s	
Some James J	5-R13
Crossing Angle 0-29° 30-59° 60-90° Measured in W 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 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.