

FY 2025 Kentucky Rail Crossing Improvement Projects

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FY 2025 Kentucky Rail Crossing Improvement Projects

PROJECT DESCRIPTION

Norfolk Southern Railway Company is looking to identify potential at-grade crossings and propose adding counter measures to reduce crossing hazards in the vicinity of the crossing. Crossing DOT# 724516V, Milepost 77.20, located in Lexington, KY is a potential crossing Norfolk Southern would like to consider for improvements by installing new raised curb delineators to help channelize vehicles and perform minor widening of the approaches. Expected outcome of project would be to create a safer highway-rail crossing to reduce the potential for incidents in the crossing vicinity.

PROJECT SCOPE OF WORK

The proposed project will include installation of raised curb medians with delineators and perform minor widening of the approaches. The raised curb medians with delineators will help channelize vehicles that are queued at the railroad crossing and deter drivers from driving around crossing arm when the signal is activated. The purpose of the project is to reduce risk of an incident in the vicinity of the crossing. For more information, please refer to the concept plan showing improvements in Exhibit C and the detailed project estimate in Exhibit E.

PROJECT SCHEDULE/TIMELINE

When authorization to proceed is received, Norfolk Southern (NS) will immediately begin, coordinating with the local road authority. Complete detailed design drawings for construction at the three (3) month mark. Norfolk Southern to bid project. Contractors' bid to include a detailed time schedule for material procurement and installation. NS will receive bids at the five (5) month mark. NS will evaluate bids and award project, as necessary, at the six (6) month mark. Contractor to start procurement and installation in accordance with their detailed time schedule. Upon completion of project by contractor, NS will inspect the finished product within a month. If all criteria are met, NS will send out a project closeout report and final billing notice. For more information, please refer to the Project Schedule/Timeline Gant Chart.



KENTUCKY RAILROAD CROSSING IMPROVEMENT (KRCI) APPLICATION

SECTION 1: PROJECT OVERVIEW

APPLICANT NAME		DOT CROSSING #	APPLICATION YEAR
Norfolk Southern Railway Company		724516V	2025
ROAD NAME	ROAD MILE POINT	CROSSING LOCATION	
		CITY	COUNTY
Greendale Road		Lexington	Fayette
PROJECT TYPE			
<input type="checkbox"/> Crossing Rehab Select One		<input checked="" type="checkbox"/> Crossing Safety Select One	
<input type="checkbox"/> Obstructive Vegetation Removal			
TOTAL PROJECT COST	KRCI FUNDING REQUESTED	APPLICANT MATCH	APPLICANT MATCH % (20% Minimum)
\$ 69,736.00	\$ 55,788.80	\$ 13,947.20	20 %

Does applicant plan to use their own manpower, equipment, or materials on the project (Force Account) or competitively bid out all work related to the project? Bid Out

PROJECT DESCRIPTION (Provide a brief project description. Include why the crossing was selected, project purpose and benefits, and the proposed work to be completed. Text is limited to the space provided below.)
 The proposed project includes installation of raised curb medians with delineators of 100 feet on both the north and south side of the crossing. The raised curb medians with delineators will help channelize vehicles that are queued at the railroad crossing and deter drivers from driving around crossing arms when the signal is activated. The proposed project is to reduced risk of an incident in the vicinity of the crossing.

FOR KYTC USE ONLY

Date Received: _____	FRA WBAPS Score: _____	Secretary Approval: <input type="checkbox"/> Y <input type="checkbox"/> N
Application Complete <input type="checkbox"/> Y <input type="checkbox"/> N	Match %: _____	KRCI Award Amount: _____
603 KAR 7:090 Compliant <input type="checkbox"/> Y <input type="checkbox"/> N	Road ADT: _____	KRCI Award Date: _____
Eligible Applicant <input type="checkbox"/> Y <input type="checkbox"/> N		



KENTUCKY RAILROAD CROSSING IMPROVEMENT (KRCI) APPLICATION

SECTION 2: APPLICANT INFORMATION

Is the applicant a railroad? NO YES (Provide KY Secretary of State information.)

KY SECRETARY OF STATE (KY SOS) ORGANIZATION ID OR #	KY SOS STATUS	KY SOS STANDING
Michael Adams	A-Active	G-Good

PRIMARY CONTACT INFORMATION

NAME & TITLE	PHONE	EMAIL		
Ernest L. Jackson, Public Safety Manager	(404) 291 - 7223	Ernest.Jackson@nscorp.com		
MAILING ADDRESS	CITY		STATE	ZIP
650 West Peachtree Street NW Atlanta, GA 30308	Atlanta		GA	30308

If awarded, will signatory be different from the Primary Contact? NO YES (Provide signatory information.)

SIGNATORY NAME & TITLE	PHONE	EMAIL		
MAILING ADDRESS	CITY		STATE	ZIP

SECTION 3: PERMITS AND APPROVALS

A. Have consultations with state or federal agencies (US Army Corps of Engineers, US Coast Guard, US Fish and Wildlife Service, Kentucky Division of Water, Kentucky Heritage Council, or others) determined the need for permits?
 Not Applicable

B. Have all required permits been obtained? Not Applicable

SECTION 4: CURRENT RAILROAD CROSSING INFORMATION (Section 4 must be completed for ALL projects.)

# OF TRAFFIC LANES	ROAD SPEED LIMIT	AVERAGE DAILY TRAFFIC (ADT) AT CROSSING		RAILROAD DIVISION	
2	45	4455		Midwest	
TYPICAL TRAIN SPEED AT CROSSING	# OF TRACKS AT CROSSING	RAIL MILE POINT	BRANCH/LINE NAME		
60	1	77.20	CNO&TP NORTH		
AVERAGE DAILY TRAIN MOVEMENTS AT CROSSING		FRA TRACK CLASS AT CROSSING	TOTALS FROM PREVIOUS 5 YEARS AT CROSSING		
29		Class 4	CRASHES	FATALITIES	INJURIES
			1	1	0



KENTUCKY RAILROAD CROSSING IMPROVEMENT (KRCI) APPLICATION

SECTION 5: CROSSING RECONSTRUCTION (Required **ONLY** for Crossing Reconstruction projects.)

CURRENT CROSSING

DATE INSTALLED	WIDTH OF ROAD	SURFACE MATERIAL	WEIGHT OF RAIL
	feet		
SURFACE CONDITION	VISIBLE TIE CONDITION	APPROACH CONDITION	DRAINAGE CONDITION
Select One	Select One	Select One	Select One

PROPOSED RECONSTRUCTION

PROJECT IMPACT ON SIDEWALK, MULTI-USE PATH, OR RECREATIONAL TRAIL	MAXIMUM CHANGE IN TRACK ELEVATION ABOVE/BELOW EXISTING ROADWAY	LENGTH OF ASPHALT APPROACH	
Select One	inches	Taper 1	Taper 2
		feet	feet

REPLACEMENT CROSSING SURFACE: Select One

SECTION 6: CROSSING SAFETY EQUIPMENT IMPROVEMENT (Required **ONLY** for Crossing Safety Equipment Improvement projects.)

	INSTALL	UPGRADE EXISTING
A. Project Signage Work: Crossing Signs and Markings	<input type="checkbox"/>	<input checked="" type="checkbox"/>
1. Describe in detail signs and markings <u>currently</u> used at crossing. (Text is limited.) Currently there are two W10-1 advance warning signs as well as one ENS (I-13) signs.		
2. Describe in detail signs and markings <u>proposed</u> at crossing as part of the project. (Text is limited.) Proposed work will include installation of raised curb medians with delineators on each approach to the crossing.		
	INSTALL	UPGRADE EXISTING
B. Project Signal Work: Active Traffic Control Devices	<input type="checkbox"/>	<input type="checkbox"/>
1. Describe in detail active traffic control devices <u>currently</u> used at crossing. Currently there two roadway gates arms, each with two quad configuration. There is one cantelivered flashing light structure, as well as four mass monunted flashing lights (incandesant and Back Lights)		
2. Describe in detail active traffic control devices <u>proposed</u> at crossing as part of the project. No changes to the active warning devices being proposed.		



KENTUCKY RAILROAD CROSSING IMPROVEMENT (KRCI) APPLICATION

SECTION 7: SUBMISSION CHECKLIST *(See KRCI Guidance Document, Section V, for details.)*

- Kentucky Railroad Crossing Improvement Application (TC 59-13)
- Statement of Work
- Scope of Work
- Project Schedule/Timeline
- Detailed engineering assessment report (as applicable)
- Aerial Photographs and photographic documentation of crossing location and condition (especially for Obstructive Vegetation removal projects)
- Plans, schematics, details, drawings of the proposed project (as applicable)
- Photographic documentation of the project location and condition
- Detailed estimate
- Road authority consultation letter (if applicant is a railroad)
- Railroad consultation letters (if applicant is a government entity)
- Public Interest Finding (as applicable)

SECTION 8: RAILROAD COMPLIANCE CERTIFICATION *(Required ONLY if applicant is a railroad.)*

I hereby certify that as an applicant defined as a railroad in 603 KAR 7:090(1), my company has completed and submitted the TC 59-102 in compliance with the provisions of 603 KAR 7:090 at the time of this application. If it is determined I am not an eligible applicant at the time of this submission, I agree that this application shall be immediately rejected without consideration and returned to me without review.

PRINTED NAME AND TITLE	SIGNATURE	DATE
Ernest L. Jackson, Public Safety Manager		02/14/2025

SECTION 9: APPLICANT CERTIFICATION *(The certification below applies to all applicants.)*

I have read the Kentucky Railroad Crossing Improvement guidance document, and I understand and agree to abide by what is stated therein. I also hereby certify, subject to the provisions of KRS 523.100 (unsworn falsification to authorities), that the above information is true and correct to the best of my knowledge.

PRINTED NAME AND TITLE	SIGNATURE	DATE
Ernest L. Jackson, Public Safety Manager		02/14/2025

Submission Directions: Applicants must combine their completed application and all required attachments into a single PDF and submit it electronically via email to KYTC.ModalPrograms@ky.gov. It is the responsibility of the applicant to ensure delivery of the emailed submission.



DOT# 724516V
 GREENDALE ROAD
 38.102825
 -84.524819

Exhibit A

EXHIBIT - PROPOSED SAFETY IMPROVEMENTS

PROJECT DESCRIPTION: TO INCREASE SAFETY AT THIS RAIL ROAD CROSSING, SECTIONS OF CONTINUOUS CURB ARE BEING PROPOSED TO CHANNELIZE VEHICLES THAT ARE QUEUED AT THE RAIL ROAD CROSSING. THIS WILL DETER DRIVERS FROM DRIVING AROUND THE CROSSING ARM WHEN THE SIGNAL IS ACTIVATED.

NOTE:
 CONCEPTUAL - NOT FOR CONSTRUCTION

REV	BY	DATE	DESCRIPTION
DO NOT SCALE THIS DRAWING FOR DIMENSIONS NOT GIVEN			
 NORFOLK SOUTHERN MIDWEST CNO&TP NORTH <small>ATLANTA, GA</small>			
DOT# 724516V -- LEXINGTON, KY GREENDALE ROAD			
DGN	VAL	SEC	N/A
CHK	FILE	N/A	
SHEET NO 01 OF 02			DRAWING NO N/A

stv
 STV INCORPORATED
 1201 PEACHTREE STREET, NE, SUITE 1550
 ATLANTA, GEORGIA 30361
 678-735-7650



Exhibit B

EXHIBIT - PROPOSED SAFETY IMPROVEMENTS

PROJECT DESCRIPTION: TO INCREASE SAFETY AT THIS RAIL ROAD CROSSING, SECTIONS OF CONTINUOUS CURB ARE BEING PROPOSED TO CHANNELIZE VEHICLES THAT ARE QUEUED AT THE RAIL ROAD CROSSING. THIS WILL DETER DRIVERS FROM DRIVING AROUND THE CROSSING ARM WHEN THE SIGNAL IS ACTIVATED.



NOTE:
CONCEPTUAL - NOT FOR CONSTRUCTION

REV	BY	DATE	DESCRIPTION
DO NOT SCALE THIS DRAWING FOR DIMENSIONS NOT GIVEN			
 NORFOLK SOUTHERN MIDWEST CNO&TP NORTH <small>ATLANTA, GA</small>			
DOT# 724516V -- LEXINGTON, KY GREENDALE ROAD			
DGN	VAL SEC	N/A	MAP N/A
CHK	FILE	N/A	MILEPOST 77.20
SHEET NO 02 OF 02			DATE 24-JAN-2025
DRAWING NO N/A			





Report No.: 1
 Onsite Representative: Jonathan Matthews
PRINT NAME

PRELIMINARY ENGINEERING ON-SITE REPRESENTATIVE REPORT

Railroad Line:	<u>CNO&TP NORTH</u>	Date of Report:	<u>2/2/2025</u>
Milepost:	<u>MP 77.20</u>	Date of Visit:	<u>2/1/2025</u>
Railroad File No.:	<u>N/A</u>	Weather:	<u>Sunny</u>
Location:	<u>Lexington Ky</u>	Temperature:	<u>High: 55 Low: 38</u>
Route No.:	<u>Greendale Road</u>	Project Sponsor:	<u>KYTC</u>
Railroad Division:	<u>Midwest</u>	STV Project No.:	<u>4019903-2528</u>

SAFETY OF OPERATIONS

STV Onsite Check in Log:
 Railway Contact: N/A Date: N/A
 How Contacted: N/A Time: N/A

Is Flagman Needed? N/A Present? N/A Name: N/A
 Flagman from: B&B N/A T&E N/A M of W N/A

PROJECT DESCRIPTION

Performed a preliminary engineering site visit on behalf of NS for the KYTC Rail Crossing Improvement Projects.

TRACK INFORMATION

No. of Tracks: One (1)
 Track Type: Main
 Direction: North to South
 Alignment: Zero (0)
 Profile (Grade): _____
 Superelevation: Zero (0)
 Right of Way: _____
 Rail Type: 136# CWR
 Crossing Length: 24'
 Crossing Type: Asphalt

Additional Track Info:

SIGNALS/COMMUNICATIONS

Do any Railway Signals or Communication lines need to be removed or relocated? N/A
 Do any Railway Signals or Communication lines need to be protected? N/A
 Additional Signal/Communication Info:

N/A

DRAINAGE

Is Current Drainage adequate? N/A
 Is proposed site Drainage Adequate? N/A
 Is proposed Structure Drainage Adequate? N/A
 Additional Drainage Info:

N/A





Report No.: 1
 Onsite Representative: Jonathan Matthews

PRELIMINARY ENGINEERING ON-SITE REPRESENTATIVE REPORT

Railroad/Line	<u>CNO&TP NORTH</u>	Date of Report:	<u>2/2/2025</u>
Milepost:	<u>MP 77.20</u>	Date of Visit:	<u>2/1/2025</u>
Railroad File No.:	<u>N/A</u>	Weather:	<u>Sunny</u>
Location:	<u>Lexington Ky</u>	Temperature:	<u>High: 55 Low: 38</u>
Route No.:	<u>Greendale Road</u>	Project Sponsor:	<u>KYTC</u>
Railroad Division:	<u>Midwest</u>	STV Project No:	<u>4019903-2528</u>

Site Access and Crossings

Will a Temporary Construction Crossing be Required? N/A
 Will Existing or Future Railway Access be Impacted by the Project? N/A
 Can any Nearby Crossings be Closed in Conjunction with this Project? N/A

Additional Site Access and Crossing Info.:

N/A

Proposed Structure Data

Existing Vertical Clearance:	<u>N/A</u>	Are Crash Walls Required?	<u>N/A</u>
Proposed Vertical Clearance:	<u>N/A</u>	Are Crash Walls Provided?	<u>N/A</u>
Existing Horizontal Clearance:	<u>N/A</u>	Do They Conform to AREMA?	<u>N/A</u>
Proposed Horizontal Clearance:	<u>N/A</u>		
Will Sheeting/Shoring be Required?	<u>N/A</u>	Dist from CL Track:	<u>N/A</u>
Will Demolition Shields be Required?	<u>N/A</u>	Temporary Clearance Reduction?	<u>N/A</u>
Are there Existing Sidewalks?	<u>N/A</u>	Any Existing Pedestrian Issues?	<u>N/A</u>
Any Existing Vandalism Issues?	<u>N/A</u>		

Additional Structure Information:

N/A

Additional Information/Issues Noted

N/A

Current Project Status

N/A



PRELIMINARY ENGINEERING ON-SITE REPRESENTATIVE REPORT

Time Log

ITEM	DESCRIPTION	QTY / HRS
On Site		
Travel Time		
Other (Describe)	Report	1
Total Hours Charged		1

On-Site Representative: Jonathan Matthews
PRINT NAME

STV Project No.: 4019903 - 2528

PHOTOGRAPHS

Photograph No.: <u>1</u>
Date: <u>2/1/2025</u>
Direction of View: <u>North</u>
Description
ENS Sign



Photograph No.: <u>2</u>
Date: <u>1/2/2025</u>
Direction of View: <u>NE</u>
Description
NS Crossing Inventory Number



On Site Representative: Jonathan Matthews
PRINT NAME

PRELIMINARY ENGINEERING ON-SITE REPRESENTATIVE REPORT

Railroad Line: CNO&TP NORTH
 Milepost: MP 77.20
 Railroad File No.: N/A
 Location: Lexington Ky
 Route No.: Greendale Road
 Railroad Division: Midwest

Date: 2/2/2025
 Sponsor Contact: 2/1/2025
 Contacted via: Sunny
 Time Contacted: _____
 Weather: KYTC
 Temperature: Hi: 55 Lo: 38

PHOTOGRAPHS

Photograph No.:	<u>003</u>
Date:	<u>2/1/2025</u>
Direction of View:	<u>North</u>
Description	
<u>Crossing approach heading North.</u>	



Photograph No.:	<u>4</u>
Date:	<u>2/1/2025</u>
Direction of View:	<u>West</u>
Description	
<u>View of the Crossing at Grade.</u>	



On Site Representative: Jonathan Matthews
PRINT NAME

PRELIMINARY ENGINEERING ON-SITE REPRESENTATIVE REPORT

Railroad Line: CNO&TP NORTH
 Milepost: MP 77.20
 Railroad File No.: N/A
 Location: Lexington Ky
 Route No.: Greendale Road
 Railroad Division: Midwest

Date: 2/2/2025
 Sponsor Contact: 2/1/2025
 Contacted via: Sunny
 Time Contacted: _____
 Weather: KYTC
 Temperature: Hi: 55 Lo: 38

PHOTOGRAPHS

Photograph No.: <u>5</u>
Date: <u>2/1/2025</u>
Direction of View: <u>West</u>
Description
<i>View of crossing at grade.</i>



Photograph No.: <u>6</u>
Date: <u>2/1/2025</u>
Direction of View: <u>W</u>
Description
<i>View of crossing at grade.</i>



On Site Representative: Jonathan Matthews
PRINT NAME

PRELIMINARY ENGINEERING ON-SITE REPRESENTATIVE REPORT

Railroad Line: CNO&TP NORTH
 Milepost: MP 77.20
 Railroad File No.: N/A
 Location: Lexington Ky
 Route No.: Greendale Road
 Railroad Division: Midwest

Date: 2/2/2025
 Sponsor Contact: 2/1/2025
 Contacted via: Sunny
 Time Contacted: _____
 Weather: KYTC
 Temperature: Hi: 55 Lo: 38

PHOTOGRAPHS

Photograph No.: <u>7</u>
Date: <u>2/1/2025</u>
Direction of View: <u>South</u>
Description
<i>Crossing approach traveling South.</i>



Photograph No.: <u>8</u>
Date: <u>2/1/2025</u>
Direction of View: <u>South</u>
Description
<i>Crossing approach traveling South and drainage to the West.</i>



On Site Representative: Jonathan Matthews
PRINT NAME

PRELIMINARY ENGINEERING ON-SITE REPRESENTATIVE REPORT

Railroad Line: CNO&TP NORTH
 Milepost: MP 77.20
 Railroad File No.: N/A
 Location: Lexington Ky
 Route No.: Greendale Road
 Railroad Division: Midwest

Date: 2/2/2025
 Sponsor Contact: 2/1/2025
 Contacted via: Sunny
 Time Contacted: _____
 Weather: KYTC
 Temperature: Hi: 55 Lo: 38

PHOTOGRAPHS

Photograph No.:	<u>9</u>
Date:	<u>2/1/2025</u>
Direction of View:	<u>East</u>
Description	
View of crossing at grade looking East.	



Photograph No.:	<u>10</u>
Date:	<u>2/1/2025</u>
Direction of View:	<u>East</u>
Description	
View of crossing at grade.	



On Site Representative: Jonathan Matthews
PRINT NAME

PRELIMINARY ENGINEERING ON-SITE REPRESENTATIVE REPORT

Railroad Line: CNO&TP NORTH
 Milepost: MP 77.20
 Railroad File No.: N/A
 Location: Lexington Ky
 Route No.: Greendale Road
 Railroad Division: Midwest

Date: 2/2/2025
 Sponsor Contact: 2/1/2025
 Contacted via: Sunny
 Time Contacted:
 Weather: KYTC
 Temperature: Hi: 55 Lo: 38

PHOTOGRAPHS

Photograph No.:	<u>11</u>
Date:	<u>7/17/2007</u>
Direction of View:	<u>NE</u>
Description	
<i>View of crossing at grade.</i>	



Photograph No.:	<u>12</u>
Date:	<u>7/25/2010</u>
Direction of View:	<u>East</u>
Description	
<i>Looking East at the crossing and asphalt.</i>	



On Site Representative: Jonathan Matthews
PRINT NAME

PRELIMINARY ENGINEERING ON-SITE REPRESENTATIVE REPORT

Railroad Line: CNO&TP NORTH
 Milepost: MP 77.20
 Railroad File No.: N/A
 Location: Lexington Ky
 Route No.: Greendale Road
 Railroad Division: Midwest

Date: 2/2/2025
 Sponsor Contact: 2/1/2025
 Contacted via: Sunny
 Time Contacted:
 Weather: KYTC
 Temperature: Hi: 55 Lo: 38

PHOTOGRAPHS

Photograph No.: <u>13</u>
Date: <u>7/17/2007</u>
Direction of View: <u>West</u>
Description
<i>Looking West at the crossing at grade and asphalt.</i>



Photograph No.: <u>14</u>
Date: <u>7/25/2010</u>
Direction of View: <u>North</u>
Description
<i>View of the crossing at grade and asphalt.</i>



On Site Representative: Jonathan Matthews
PRINT NAME

PRELIMINARY ENGINEERING ON-SITE REPRESENTATIVE REPORT

Railroad Line: CNO&TP NORTH
 Milepost: MP 77.20
 Railroad File No.: N/A
 Location: Lexington Ky
 Route No.: Greendale Road
 Railroad Division: Midwest

Date: 2/2/2025
 Sponsor Contact: 2/1/2025
 Contacted via: Sunny
 Time Contacted: _____
 Weather: KYTC
 Temperature: Hi: 55 Lo: 38

PHOTOGRAPHS

Photograph No.:	<u>15</u>
Date:	<u>7/17/2007</u>
Direction of View:	<u>South</u>
Description	
<i>View of the crossing at grade and the asphalt.</i>	



Photograph No.:	<u>16</u>
Date:	<u>7/25/2010</u>
Direction of View:	<u>NW</u>
Description	
<i>View of the crossing at grade and asphalt.</i>	



On Site Representative: Jonathan Matthews
PRINT NAME

DETAILED CONSTRUCTION ESTIMATE

Grade Crossing Hazard Elimination - Lexington, KY_DOT# 724516V_MP 77.20

Estimate of Proposed Crossing Improvements

Item	Unit	Quantity	Unit Price	Cost
Qwick Kurb Interlocking Raised Separator Unit, Yellow	EA	56	\$110.00	\$6,160
Qwick Kurb Male and Female End Unit, Yellow	EA	4	\$100.00	\$400
Qwick Kurb Reflective Arc, Yellow	EA	56	\$30.00	\$1,680
Qwick Kurb Mega Marker w/ Flex & Bar, Yellow Reflective Sheeting (spaced 10 feet apart)**	EA	22	\$120.00	\$2,640
Qwick Kurb Pavement Anchors	EA	112	\$3.00	\$336
Edge Delineators*	EA	80	\$150.00	\$12,000
Railroad Striping/Pavement Markings	LF	800	\$1.30	\$1,040
Roadway Widening 1'0 wide approx 800 ft.	LS	1	\$28,000.00	\$28,000
Project Coordination/Mobilization	LS	1	\$10000.00	\$10,000
Manpower/Installation- Quick Kurb w/ 4 Person crew (Assume 8-hour duration)	LH	64	\$70.00	\$4,480
MOT/Traffic Controls	LS	1	\$3000.00	\$3,000
Total Cost				\$69,736

* Future cost of damaged uprights is estimated as \$15/yr per 10 feet for delineators.

** Securing Arcs and Screws are included in estimate.

*** 3-year limited battery warranty, 5-year limited system warranty, 10-year limited solar panel warranty.

U. S. DOT CROSSING INVENTORY FORM

DEPARTMENT OF TRANSPORTATION
FEDERAL RAILROAD ADMINISTRATION

OMB No. 2130-0017

Instructions for the initial reporting of the following types of new or previously unreported crossings: For public highway-rail grade crossings, complete the entire inventory Form. For private highway-rail grade crossings, complete the Header, Parts I and II, and the Submission Information section. For public pathway grade crossings (including pedestrian station grade crossings), complete the Header, Parts I and II, and the Submission Information section. For Private pathway grade crossings, complete the Header, Parts I and II, and the Submission Information section. For grade-separated highway-rail or pathway crossings (including pedestrian station crossings), complete the Header, Part I, and the Submission Information section. For changes to existing data, complete the Header, Part I Items 1-3, and the Submission Information section, in addition to the updated data fields. Note: For private crossings only, Part I Item 20 and Part III Item 2.K. are required unless otherwise noted. An asterisk * denotes an optional field.

A. Revision Date (MM/DD/YYYY) 12 / 06 / 2024
B. Reporting Agency [X] Railroad [] Transit [] State [] Other
C. Reason for Update (Select only one) [X] Change in Data [] Re-Open [] New Crossing [] Date Change Only [] Closed [] Change in Primary Operating RR [] No Train Traffic [] Quiet Zone Update [] Admin. Correction
D. DOT Crossing Inventory Number 724516V

Part I: Location and Classification Information

1. Primary Operating Railroad Norfolk Southern Railway Company [NS]
2. State KENTUCKY
3. County FAYETTE
4. City / Municipality [X] In [] Near LEXINGTON
5. Street/Road Name & Block Number GREENDALE ROAD (Street/Road Name) * (Block Number)
6. Highway Type & No. SR1978
7. Do Other Railroads Operate a Separate Track at Crossing? [] Yes [X] No
8. Do Other Railroads Operate Over Your Track at Crossing? [] Yes [X] No

9. Railroad Division or Region [] None MIDWEST
10. Railroad Subdivision or District [] None CNO&TP NORTH
11. Branch or Line Name [X] None
12. RR Milepost 0077.200 (prefix) | (nnnn.nnn) | (suffix)
13. Line Segment *
14. Nearest RR Timetable Station * GREENVILLE
15. Parent RR (if applicable) [X] N/A
16. Crossing Owner (if applicable) [X] N/A

17. Crossing Type [X] Public [] Private
18. Crossing Purpose [X] Highway [] Pathway, Ped. [] Station, Ped.
19. Crossing Position [X] At Grade [] RR Under [] RR Over
20. Public Access (if Private Crossing) [] Yes [] No
21. Type of Train [X] Freight [] Intercity Passenger [] Commuter [] Transit [] Shared Use Transit [] Tourist/Other
22. Average Passenger Train Count Per Day [] Less Than One Per Day [] Number Per Day 0

23. Type of Land Use [] Open Space [] Farm [X] Residential [] Commercial [] Industrial [] Institutional [] Recreational [] RR Yard
24. Is there an Adjacent Crossing with a Separate Number? [] Yes [X] No If Yes, Provide Crossing Number
25. Quiet Zone (FRA provided) [X] No [] 24 Hr [] Partial [] Chicago Excused Date Established

26. HSR Corridor ID [X] N/A
27. Latitude in decimal degrees (WGS84 std: nn.nnnnnnn) 38.1028172
28. Longitude in decimal degrees (WGS84 std: -nnn.nnnnnnn) -84.5248051
29. Lat/Long Source [X] Actual [] Estimated

30.A. Railroad Use *
30.B. Railroad Use *
30.C. Railroad Use *
30.D. Railroad Use *
31.A. State Use *
31.B. State Use *
31.C. State Use *
31.D. State Use *
32.A. Narrative (Railroad Use) *
32.B. Narrative (State Use) *

33. Emergency Notification Telephone No. (posted) 800-946-4744
34. Railroad Contact (Telephone No.) 800-946-4744
35. State Contact (Telephone No.) 502-564-3210

Part II: Railroad Information

1. Estimated Number of Daily Train Movements
1.A. Total Day Thru Trains (6 AM to 6 PM) 15
1.B. Total Night Thru Trains (6 PM to 6 AM) 14
1.C. Total Switching Trains 5
1.D. Total Transit Trains 0
1.E. Check if Less Than One Movement Per Day [] How many trains per week?
2. Year of Train Count Data (YYYY) 2024
3. Speed of Train at Crossing
3.A. Maximum Timetable Speed (mph) 60
3.B. Typical Speed Range Over Crossing (mph) From 40 to 60
4. Type and Count of Tracks
Main 1 Siding 0 Yard 0 Transit 0 Industry 0
5. Train Detection (Main Track only) [X] Constant Warning Time [] Motion Detection [] AFO [] PTC [] DC [] Other [] None
6. Is Track Signaled? [X] Yes [] No
7.A. Event Recorder [X] Yes [] No
7.B. Remote Health Monitoring [] Yes [X] No

U. S. DOT CROSSING INVENTORY FORM

A. Revision Date (MM/DD/YYYY) 12/06/2024		PAGE 2		D. Crossing Inventory Number (7 char.) 724516V	
Part III: Highway or Pathway Traffic Control Device Information					
1. Are there Signs or Signals? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		2. Types of Passive Traffic Control Devices associated with the Crossing			
2.A. Crossbuck Assemblies (count) 0		2.B. STOP Signs (R1-1) (count) 0	2.C. YIELD Signs (R1-2) (count)	2.D. Advance Warning Signs (Check all that apply; include count) <input checked="" type="checkbox"/> None <input type="checkbox"/> W10-1 <u>2</u> <input type="checkbox"/> W10-3 _____ <input type="checkbox"/> W10-11 _____ <input type="checkbox"/> W10-2 _____ <input type="checkbox"/> W10-4 _____ <input type="checkbox"/> W10-12 _____	
2.E. Low Ground Clearance Sign (W10-5) <input type="checkbox"/> Yes (count _____) <input checked="" type="checkbox"/> No		2.F. Pavement Markings <input type="checkbox"/> Stop Lines <input type="checkbox"/> Dynamic Envelope <input type="checkbox"/> RR Xing Symbols <input checked="" type="checkbox"/> None		2.G. Channelization Devices/Medians <input type="checkbox"/> All Approaches <input type="checkbox"/> Median <input type="checkbox"/> One Approach <input type="checkbox"/> None	2.H. EXEMPT Sign (R15-3) <input type="checkbox"/> Yes <input type="checkbox"/> No
2.I. ENS Sign (I-13) Displayed <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		2.J. Other MUTCD Signs <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Specify Type _____ Count _____ Specify Type _____ Count _____ Specify Type _____ Count _____		2.K. Private Crossing Signs (if private) <input type="checkbox"/> Yes <input type="checkbox"/> No	2.L. LED Enhanced Signs (List types)
3. Types of Train Activated Warning Devices at the Grade Crossing (specify count of each device for all that apply)					
3.A. Gate Arms (count) Roadway <u>2</u> Pedestrian <u>0</u>	3.B. Gate Configuration <input checked="" type="checkbox"/> 2 Quad <input type="checkbox"/> Full (Barrier) Resistance <input type="checkbox"/> 3 Quad <input type="checkbox"/> Median Gates	3.C. Cantilevered (or Bridged) Flashing Light Structures (count) Over Traffic Lane <u>1</u> <input checked="" type="checkbox"/> Incandescent Not Over Traffic Lane <u>0</u> <input type="checkbox"/> LED		3.D. Mast Mounted Flashing Lights (count of masts) <u>4</u> <input checked="" type="checkbox"/> Incandescent <input type="checkbox"/> LED <input checked="" type="checkbox"/> Back Lights Included <input type="checkbox"/> Side Lights Included	3.E. Total Count of Flashing Light Pairs 6
3.F. Installation Date of Current Active Warning Devices: (MM/YYYY) <u>12</u> / <u>2007</u> <input type="checkbox"/> Not Required		3.G. Wayside Horn <input type="checkbox"/> Yes Installed on (MM/YYYY) _____ / _____ <input checked="" type="checkbox"/> No		3.H. Highway Traffic Signals Controlling Crossing <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	3.I. Bells (count) 1
3.J. Non-Train Active Warning <input type="checkbox"/> Flagging/Flagman <input type="checkbox"/> Manually Operated Signals <input type="checkbox"/> Watchman <input type="checkbox"/> Floodlighting <input checked="" type="checkbox"/> None				3.K. Other Flashing Lights or Warning Devices Count <u>6</u> Specify type <u>gate lights</u>	
4.A. Does nearby Hwy Intersection have Traffic Signals? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	4.B. Hwy Traffic Signal Interconnection <input checked="" type="checkbox"/> Not Interconnected <input type="checkbox"/> For Traffic Signals <input type="checkbox"/> For Warning Signs	4.C. Hwy Traffic Signal Preemption <input type="checkbox"/> Simultaneous <input type="checkbox"/> Advance	5. Highway Traffic Pre-Signals <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Storage Distance * <u>0</u> Stop Line Distance * <u>0</u>	6. Highway Monitoring Devices (Check all that apply) <input type="checkbox"/> Yes - Photo/Video Recording <input type="checkbox"/> Yes - Vehicle Presence Detection <input checked="" type="checkbox"/> None	
Part IV: Physical Characteristics					
1. Traffic Lanes Crossing Railroad Number of Lanes <u>1</u>		<input type="checkbox"/> One-way Traffic <input type="checkbox"/> Two-way Traffic <input type="checkbox"/> Divided Traffic	2. Is Roadway/Pathway Paved? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3. Does Track Run Down a Street? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	4. Is Crossing Illuminated? (Street lights within approx. 50 feet from nearest rail) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5. Crossing Surface (on Main Track, multiple types allowed) Installation Date * (MM/YYYY) _____ / _____ Width * _____ Length * _____ <input type="checkbox"/> 1 Timber <input checked="" type="checkbox"/> 2 Asphalt <input type="checkbox"/> 3 Asphalt and Timber <input type="checkbox"/> 4 Concrete <input type="checkbox"/> 5 Concrete and Rubber <input type="checkbox"/> 6 Rubber <input type="checkbox"/> 7 Metal <input type="checkbox"/> 8 Unconsolidated <input type="checkbox"/> 9 Composite <input type="checkbox"/> 10 Other (specify) _____					
6. Intersecting Roadway within 500 feet? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, Approximate Distance (feet) _____			7. Smallest Crossing Angle <input type="checkbox"/> 0° - 29° <input type="checkbox"/> 30° - 59° <input checked="" type="checkbox"/> 60° - 90°		8. Is Commercial Power Available? * <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Part V: Public Highway Information					
1. Highway System <input type="checkbox"/> (01) Interstate Highway System <input type="checkbox"/> (02) Other Nat Hwy System (NHS) <input type="checkbox"/> (03) Federal AID, Not NHS <input checked="" type="checkbox"/> (08) Non-Federal AID		2. Functional Classification of Road at Crossing <input checked="" type="checkbox"/> (0) Rural <input type="checkbox"/> (1) Urban <input type="checkbox"/> (1) Interstate <input type="checkbox"/> (5) Major Collector <input type="checkbox"/> (2) Other Freeways and Expressways <input type="checkbox"/> (3) Other Principal Arterial <input checked="" type="checkbox"/> (6) Minor Collector <input type="checkbox"/> (4) Minor Arterial <input type="checkbox"/> (7) Local		3. Is Crossing on State Highway System? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	4. Highway Speed Limit _____ MPH <input type="checkbox"/> Posted <input type="checkbox"/> Statutory
7. Annual Average Daily Traffic (AADT) Year <u>2017</u> AADT <u>4455</u>		8. Estimated Percent Trucks <u>13</u> %	9. Regularly Used by School Buses? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Average Number per Day <u>7</u>		10. Emergency Services Route <input type="checkbox"/> Yes <input type="checkbox"/> No
Submission Information - This information is used for administrative purposes and is not available on the public website.					
Submitted by _____ Organization _____ Phone _____ Date _____					
Public reporting burden for this information collection is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed and completing and reviewing the collection of information. According to the Paperwork Reduction Act of 1995, a federal agency may not conduct or sponsor, and a person is not required to, nor shall a person be subject to a penalty for failure to comply with, a collection of information unless it displays a currently valid OMB control number. The valid OMB control number for information collection is 2130-0017. Send comments regarding this burden estimate or any other aspect of this collection, including for reducing this burden to: Information Collection Officer, Federal Railroad Administration, 1200 New Jersey Ave. SE, MS-25 Washington, DC 20590.					

Exhibit F

DEPARTMENT OF TRANSPORTATION
FEDERAL RAILROAD ADMINISTRATION (FRA)

HIGHWAY-RAIL GRADE CROSSING
ACCIDENT/INCIDENT REPORT

OMB Approval No. 2130-0500

1. Name of Reporting Railroad Norfolk Southern Railway Company [NS]				1a. Alphabetic Code NS		1b. Railroad Accident/Incident No. 139095	
2. Name of Other Railroad or Other Entity Filing for Equipment Involved in Train Accident/Incident				2a. Alphabetic Code		2b. Railroad Accident/Incident No.	
3. Name of Railroad or Other Entity Responsible for Track Maintenance (single entry) Norfolk Southern Railway Company [NS]				3a. Alphabetic Code NS		3b. Railroad Accident/Incident No. 139095	
4. U.S. DOT Grade Crossing ID No. 724516V				5. Date of Accident/Incident month day year 0 9 0 8 2020		6. Time of Accident/Incident 12:22 AM <input checked="" type="checkbox"/> PM <input type="checkbox"/>	
7. Nearest Railroad Station LEXINGTON		8. Subdivision LAKE		9. County FAYETTE		10. State Abbr. KY Code 21	
11. City (if in a city) LEXINGTON			12. Highway Name or No. SR1978/GREENDALE ROA			Public <input checked="" type="checkbox"/> Private <input type="checkbox"/>	
Highway User Involved				Rail Equipment Involved			
13. Type C. Truck-trailer F. Bus J. Other Motor Vehicle A. Auto D. Pick-up truck G. School Bus K. Pedestrian B. Truck E. Van H. Motorcycle M. Other (specify) Code A				17. Equipment 1. Train (units pulling) 2. Train (units pushing) 3. Train (standing) 4. Car(s) (moving) 5. Car(s) (standing) 6. Light loco(s) (moving) 7. Light loco(s) (standing) 8. Other (specify) A. Train pulling- RCL B. Train pushing- RCL C. Train standing- RCL D. EMU Locomotive(s) E. DMU Locomotive(s) Code 1			
14. Vehicle Speed (est. mph at impact) 0		15. Direction (geographical) 1. North 2. South 3. East 4. West Code 4		18. Position of Car Unit in Train 1			
16. Position 1. Stalled or stuck on crossing 2. Stopped on Crossing 3. Moving over crossing 4. Trapped on crossing by traffic 5. Blocked on crossing by gates Code 2				19. Circumstance 1. Rail equipment struck highway user 2. Rail equipment struck by highway user Code 1			
20a. Was the highway user and/or rail equipment involved in the impact transporting hazardous materials? 1. Highway User 2. Rail Equipment 3. Both 4. Neither Code 4				20b. Was there a hazardous materials release by 1. Highway User 2. Rail Equipment 3. Both 4. Neither Code 4			
20c. State here the name and quantity of the hazardous material released, if any							
21. Temperature (specify if minus) 72 °F		22. Visibility (single entry) 1. Dawn 2. Day 3. Dusk 4. Dark Code 4		23. Weather (single entry) 1. Clear 2. Cloudy 3. Rain 4. Fog 5. Sleet 6. Snow Code 1			
24. Type of Equipment Consist (single entry) 1. Freight Train 2. Passenger Train-Pulling 3. Commuter Train-Pulling 4. Work Train 5. Single Car 6. Cut of cars 7. Yard/Switching 8. Light loco(s) 9. Maint./inspect. car A. Spec. MoW Equip. B. Passenger Train-Pushing C. Commuter Train-Pushing D. EMU E. DMU Code 1				25. Track Type Used by Rail Equipment Involved 1. Main 2. Yard 3. Siding 4. Industry Code 1		26. Track Number or Name SINGLE MAIN TRACK	
27. FRA Track Class (1-9,X) 4		28. Number of Locomotive Units 3		29. Number of Cars 86		30. Consist Speed (Recorded speed if available) R. Recorded E. Estimated 47 mph Code E	
32. Type of Crossing Warning 1. Gates 2. Cantilever FLS 3. Standard FLS 4. Wig wags 5. Hwy. traffic signals 6. Audible 7. Crossbucks 8. Stop signs 9. Watchman 10. Flagged by crew 11. Other (specify) 12. None Code(s) 01 02 03 04 06				33. Signaled Crossing Warning (See reverse side for instructions and codes) Code 1		34. Roadway Conditions A. Dry B. Wet C. Snow/Slush D. Ice E. Sand, Mud, Dirt, Oil, Gravel F. Water (Standing, Moving) Code A	
35. Location of Warning 1. Both Sides 2. Side of Vehicle Approach 3. Opposite Side of Vehicle Approach Code 1				36. Crossing Warning Interconnected with Highway Signals 1. Yes 2. No 3. Unknown Code 2		37. Crossing Illuminated by Street Lights or Special Lights 1. Yes 2. No 3. Unknown Code 2	
38. Highway User's Age 1. Male 2. Female Code 37 1		39. Highway User's Gender 1. Male 2. Female Code 1		40. Highway User Went Behind or in Front of Train and Struck or was Struck by Second Train 1. Yes 2. No 3. Unknown Code 2		41. Highway User 1. Went around the gate 2. Stopped and then proceeded 3. Did not stop 4. Stopped on crossing 5. Other (specify) 6. Went around/thru temporary barricade (if yes, see instructions) 7. Went thru the gate 8. Suicide/Attempted suicide Code 4	
42. Driver Passed Standing Highway Vehicle 1. Yes 2. No 3. Unknown Code 2				43. View of Track Obscured by (primary obstruction) 1. Permanent Structure 2. Standing railroad equipment 3. Passing Train 4. Topography 5. Vegetation 6. Highway Vehicles 7. Other (specify) 8. Not Obstructed Code 8			
Casualties to:		Killed		Injured		44. Driver was 1. Killed 2. Injured 3. Uninjured Code 1	
46. Highway-Rail Crossing Users		1		47. Highway Vehicle Property Damage (est. dollar damage) \$5,000		45. Was Driver in the Vehicle? 1. Yes 2. No Code 1	
49. Railroad Employees		0		50. Total Number of People on Train (include passengers and train crew) 2		48. Total Number of Vehicle Occupants (including driver) 1	
52. Passengers on Train		0		51. Is a Rail Equipment Accident / Incident Report Being Filed 1. Yes 2. No Code 2			
53a. Special Study Block Video Taken? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Video Used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				53b. Special Study Block			
54. Narrative Description (Be specific, and continue on separate sheet if necessary) NS TRAIN 55GT807 STRUCK A CAR THAT WAS STOPPED ON THE HWY-GRADE CROSSING, EQUIPPED WITH GATES.							
55. Typed Name and Title				56. Signature		57. Date	

NOTE: This report is part of the reporting railroad's accident report pursuant to the accident reports statute and, as such shall not "be admitted as evidence or used for any purpose in any suit or action for damages growing out of any matter mentioned in said report..." 49 U.S.C. 20903. See 49 C.F.R. 225.7 (b).



Andy Beshear
GOVERNOR

TRANSPORTATION CABINET

Department of Highways, District 7 Office
P.O. Box 11127
Lexington, KY 40512-1127
859-246-2355

Jim Gray
SECRETARY

February 14, 2025

Leon Jackson
Norfolk Southern
650 W. Peachtree Street NW
Building Box 13
Atlanta, GA 30308

Dear Mr. Jackson:

The Kentucky Transportation Cabinet District Seven Office has been in contact with Norfolk Southern Railroad regarding the supplementary safety enhancements at the following railroad crossing located in District Seven:

- KY 1978/Greendale Road at-grade crossing, DOT# 724516V

The District Seven office concurs with and supports Norfolk Southern's proposal to perform minor widening and the installation of Qwick Kurb Lane Separators to enhance safety at this crossing.

Please contact us if you have any questions.

Sincerely,

Kelly A. Baker, PE
Chief District Engineer
District Seven, Lexington