### Public Utilities Commission of Ohio

# Memo

To: Docketing Division

From: Jill Henry, Rail Specialist, Rail Division

Cc: PUCO Legal Department

Date: 7/20/18

Re: PUCO Case No. 18-1167-RR-FED- In the Matter of a Request for an Upgrade at the Norfolk Southern Railway Crossing, E. 26<sup>th</sup> Street DOT#524-190E, in Cuyahoga County, Ohio.

On February 22, 2018, the Ohio Rail Development Commission (ORDC) authorized funding for Norfolk Southern Railway to upgrade to LED lights at E. 26<sup>th</sup> Street DOT#524-190E, in Cuyahoga County, Ohio. The crossing was surveyed, on August 1, 2017, and found to warrant the upgrade. The electric utility provider for this crossing is Cleveland Public Power.

The project will be paid for with federal funds and is actual cost. The plans and estimates for the project in the amount of \$48,274.00 have been approved. Construction may commence at once. **Staff requests a Finding & Order with completion of the project in 9 months.** Staff requests that the following language be incorporated in the Finding & Order:

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 the warning devices function as designed and visible to the roadway user, and
- MUTCD compliance, including minor roadway work if necessary.

### Please serve the following parties of record:

Norfolk Southern Railway Company Stephen Klinger Public Projects Engineer 1200 Peachtree Street NE Atlanta, GA 30309-3597

Norfolk Southern Railway Company Cayela Wimberly Director Grade Crossing Safety 1200 Peachtree Street NE Atlanta, GA 30309-3597

Eastman & Smith LTD. Mr. Casey Talbott Attorney for Norfolk Southern One SeaGate 24<sup>th</sup> Floor P.O. Box 10032 Toledo, Ohio 43699-0032

Ohio Rail Development Commission Cathy Stout Safety Manager 1980 West Broad Street Mail Stop #3140 Columbus, Ohio 43223

City of Cleveland Regina Leverett Engineer Department of Public Works Division of Traffic Engineering 601 Lakeside Avenue Room 25 Cleveland, Ohio 44114

Cleveland Public Power 1300 Lakeside Avenue Cleveland, Ohio 44114

## OHIO RAIL DEVELOPMENT COMMISSION INTER-OFFICE COMMUNICATION

TO: Randall Schumacher, Supervisor, Rail Division, PUCO

FROM: Cathy Stout, Manager, Safety Section, ORDC

BY: James Tucker, Project Manager, ORDC 17

SUBJECT: Cuyahoga County, East 26th St, Norfolk Southern

DOT#524190E, PID#106847

DATE: June 19, 2018

The Ohio Rail Development Commission (ORDC) established a diagnostic survey at the subject location on August 1, 2017, 2017. The Diagnostic Team recommended that the devices will receive a L.E.D Light upgrade. 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 for twelve months. This construction authorization is made with the stipulation and understanding that any field work needs prior approval before 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: Jill Henry, PUCO Susan Arduni, ORDC 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

June 19, 2018

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

RE: Cuyahoga County, East 26<sup>th</sup> Street, DOT #524190E

PID#106847, NS Project 10.1105

Dear Mr. Klinger:

The plan and estimate dated May 23, 2018, for the referenced project has been reviewed and is acceptable. NS may proceed with the construction of the proposed L.E.D Light upgrade 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 from ORDC is limited to \$48,274.00. 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 James Tucker, ORDC, email <a href="mailto:james.tucker@dot.ohio.gov">james.tucker@dot.ohio.gov</a> and to the Public Utilities Commission of Ohio at <a href="mailto:jill.henry@puco.oh.gov">jill.henry@puco.oh.gov</a> 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 James Tucker at 614-398-6897 (telephone) or <a href="mailto:james.tucker@dot.ohio.gov">james.tucker@dot.ohio.gov</a> (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,

James Tucker Project Manager

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



### **Detailed Estimate for Grade Crossing Warning Devices**

City/State: CLEVELAND, OH Road: EAST 26TH STREET

MilePost: RD-121.66 DOT/AAR: 524190E

State Proj. No.: PID 106847 County: CUYAHOGA

S&E Proj. No.: 10.1105 File Number: 061-10.901

Man Days: 36

***Purchases	<ul><li>Others***</li></ul>
--------------	-----------------------------

Meals and Lodging: \$4,924.28

Rental of Equipment: \$6,731.47

(2 Trucks, 1 Backhoe w/ Trailer and 1 Pipe-Pusher for 6 Days)

Construction Supervision Vehicle: \$1,029.69

Purchases - Other Total: \$12,685.44

### \*\*\*Material And Additives\*\*\*

Material Cost: \$7,401.00

Sales and Use Tax: \$592.00

Material Handling Freight: \$740.13

Material Total: \$8,733.13

### \*\*\*Labor And Additives\*\*\*

Labor Cost: \$11,592.00

(6 man crew at \$1,932.00 a day for: 6 days)

Payroll Tax & Overheads: \$9,883.34
Preliminary Engineering: \$1,994.29
Construction Supervision: \$3,386.02

Labor Total: \$26,855.65

Project Cost: \$48,274.22

Scrap / Salvage Credit: \$0.00

Project Total: \$48,274.00

Estimated on: 23-May-18 Estimated by: ndney

Estimate valid for 1 year from date of estimate



# Norfolk Southern Railway <u>Highway Crossing Signalization Program - Material List</u>



Do not substitute items without permission from S & E Engineering

City:	CLEVELAND			
Road:	EAST 26TH STREET			
Mile Post:	RD-121.66			
Drawing Number:	35121217			
State ProjectNumber:	PID 106847			
County:	CUYAHOGA			
A A R Number:	524190E			
Project Number:	10.1105			
File Number:	061-10.901			
New File Number:	CX0116823			
WBS:	F-05073			
Store Number:	S803			
Supervisor:	UNKNOWN			
Tax Code:	3500			
Vendor to supply the following copies after pricing:  1 Set - Material Management with original Invoice 2 Sets - with plans shipped in car with material 1 Set - S&EGen. Supt. Construction w/copy of invoice				

Location: CLEVELAND OH S&E Proj. No.: 10.1105 AFE No.: F-05073 Drawing No.: 35121217

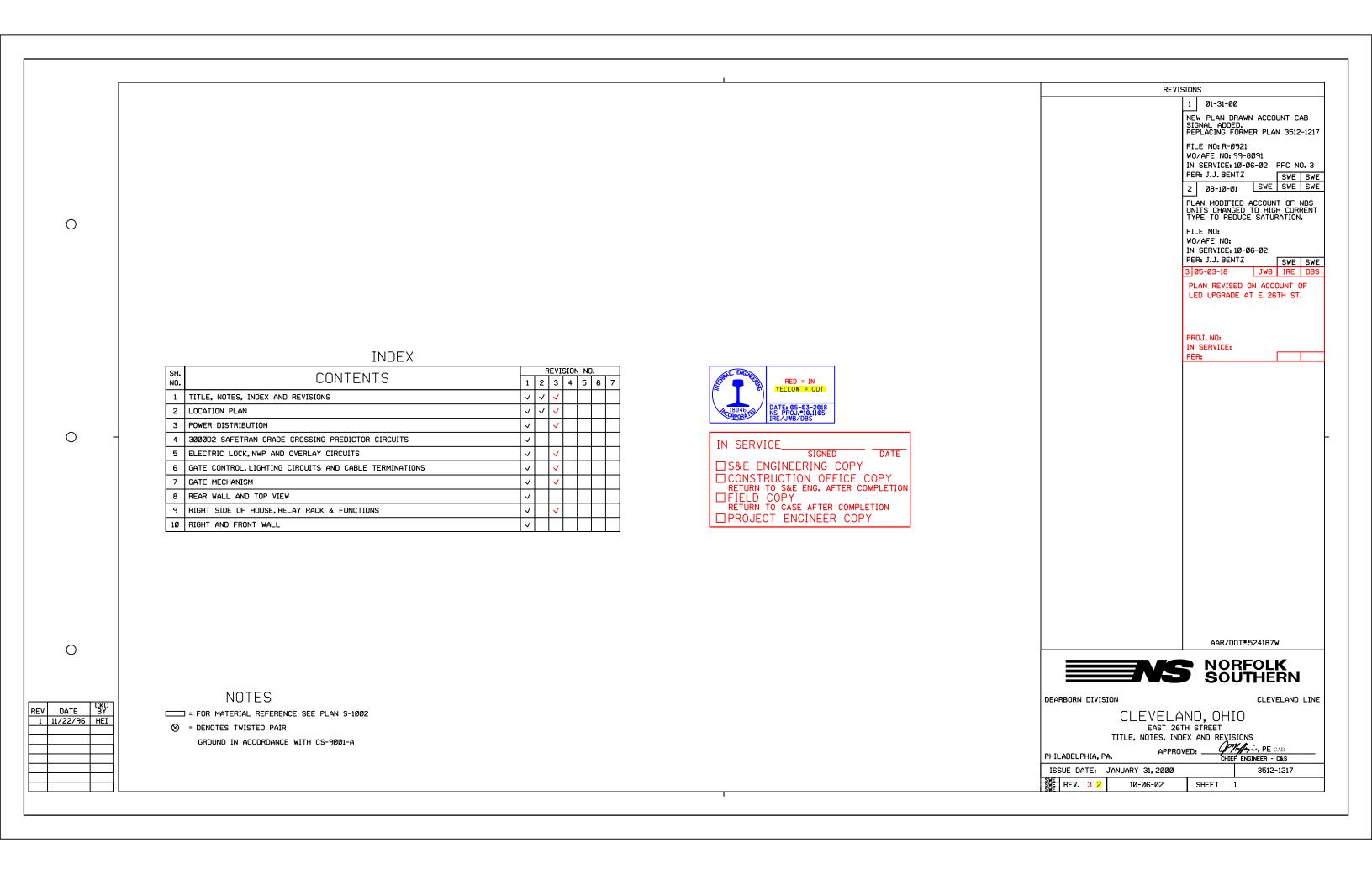
Store No.: S803 P.O.Number: Date Required: Date Shipped: Vendor: Interrail Engineering, INC

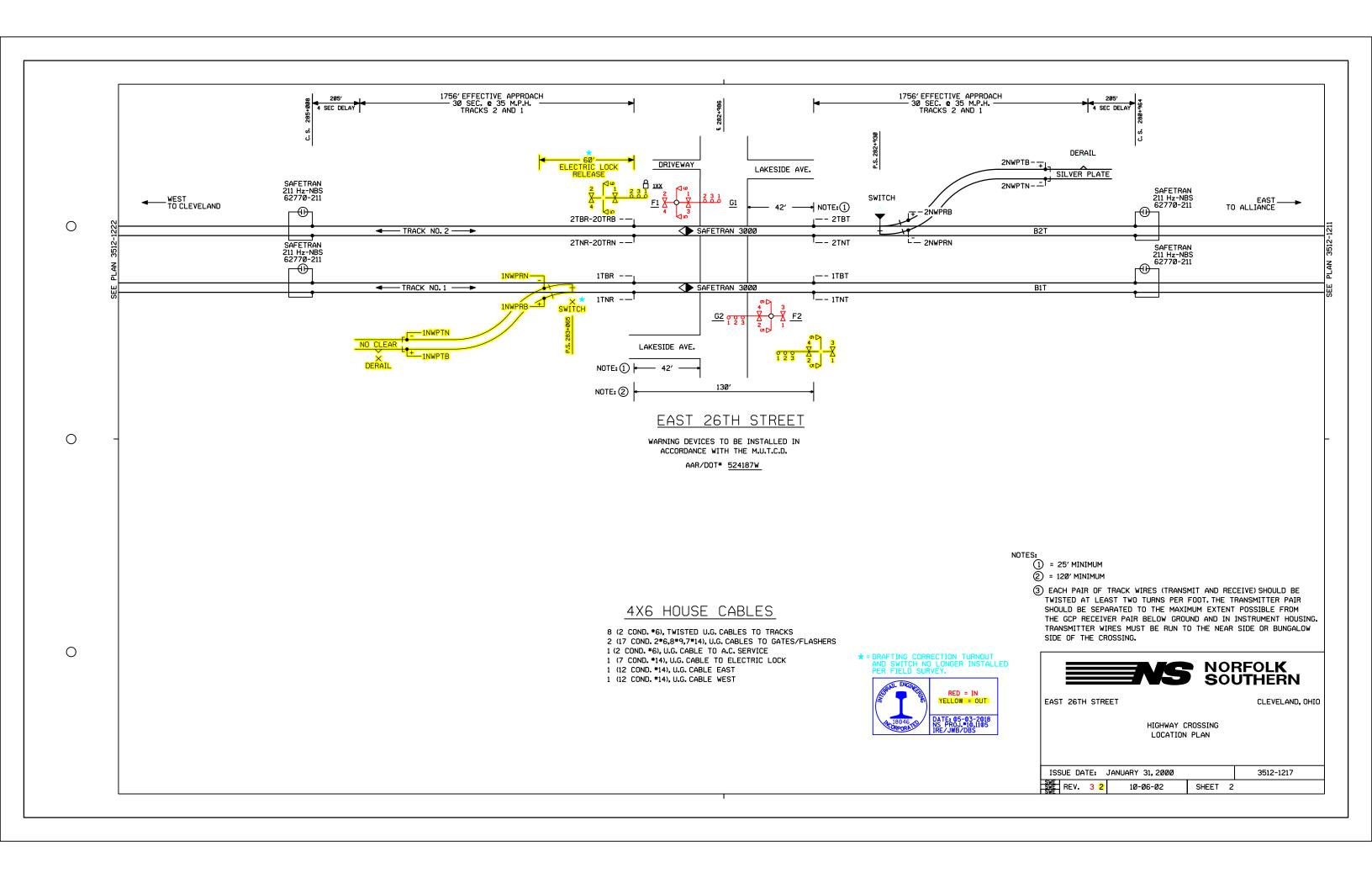
							Qua	ntity Insta	alled	Quantity	
			Price			Quantity	Date	Date	Date	Returned	Special
Qty.	Class-Item-CD	UI	per Item	Total Price	Item Description	Shipped	Quan.	Quan.	Quan.		Instructions
2	670-005374-4	EA	\$446.22	\$892.44	GATE ARM, ALUMI-LITE (HIGH WIND), 27-33 FT, ARM ASSEMBLY, INCLUDES GATE GUARD FOR GATE LIGHT CABLE. HIGH INTENSITY VERTICAL STRIPES.						
2	670-005609-4	EA	\$14.43		GUARD, FOR LED GATE LIGHT CABLES. PROTECTS GATE LIGHT CABLE FROM WALRUS TUSKS. SPN: T19505 NPN: NEG-510-CGP						
2	670-092155-4	EA	\$160.00		LAMP ASSY, LED GATE ARM KIT (INCLUDES 3 LAMPS COMPLETE WITH CABLES AND MTG. HARDWARE) REC #: 9298-1120						
2	670-005060-4	EA	\$954.14		LAMP ASSY, LED, 5" MAST 1 WAY SIDELIGHT (ROAD SIDE) (IPN: 042003-L001568)						
2	670-005058-4	EA	\$1,786.08	\$3,572.16	LAMP ASSY, LED, 5" MAST BACK TO BACK LIGHTS (IPN: 042003-L487XNS)						
4	670-001347-4	EA	\$59.67	\$238.68	PACKAGE, HARDWARE SIGN 5 IN. MOUNTING, SERRMI A1250-5, HARMON @200965-000, OR						
2	670-554843-4	EA	\$77.05	\$154.10	SIGN, 2 TRACK SIGN, HIGH INTENSITY, SAFETRAN #035207- 2HX						
2	670-016346-4	EA	\$143.38		SIGN, X-BUCK, HI-INTENSIVE REFLECTIVE FRT. & BACK FOR ALL STATES, SAFETRAN# 035200-91X						

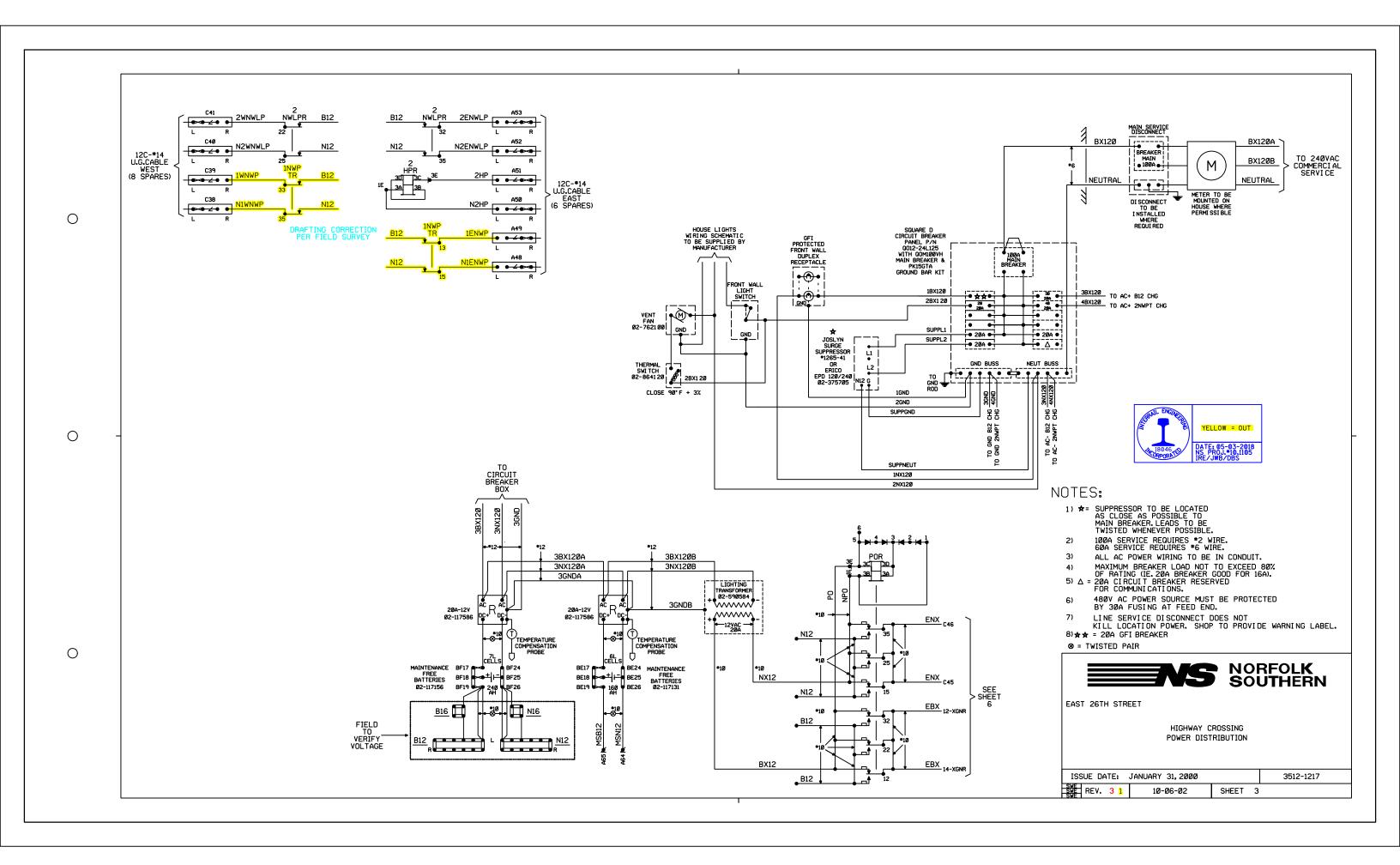
Total Material: \$7,401.28

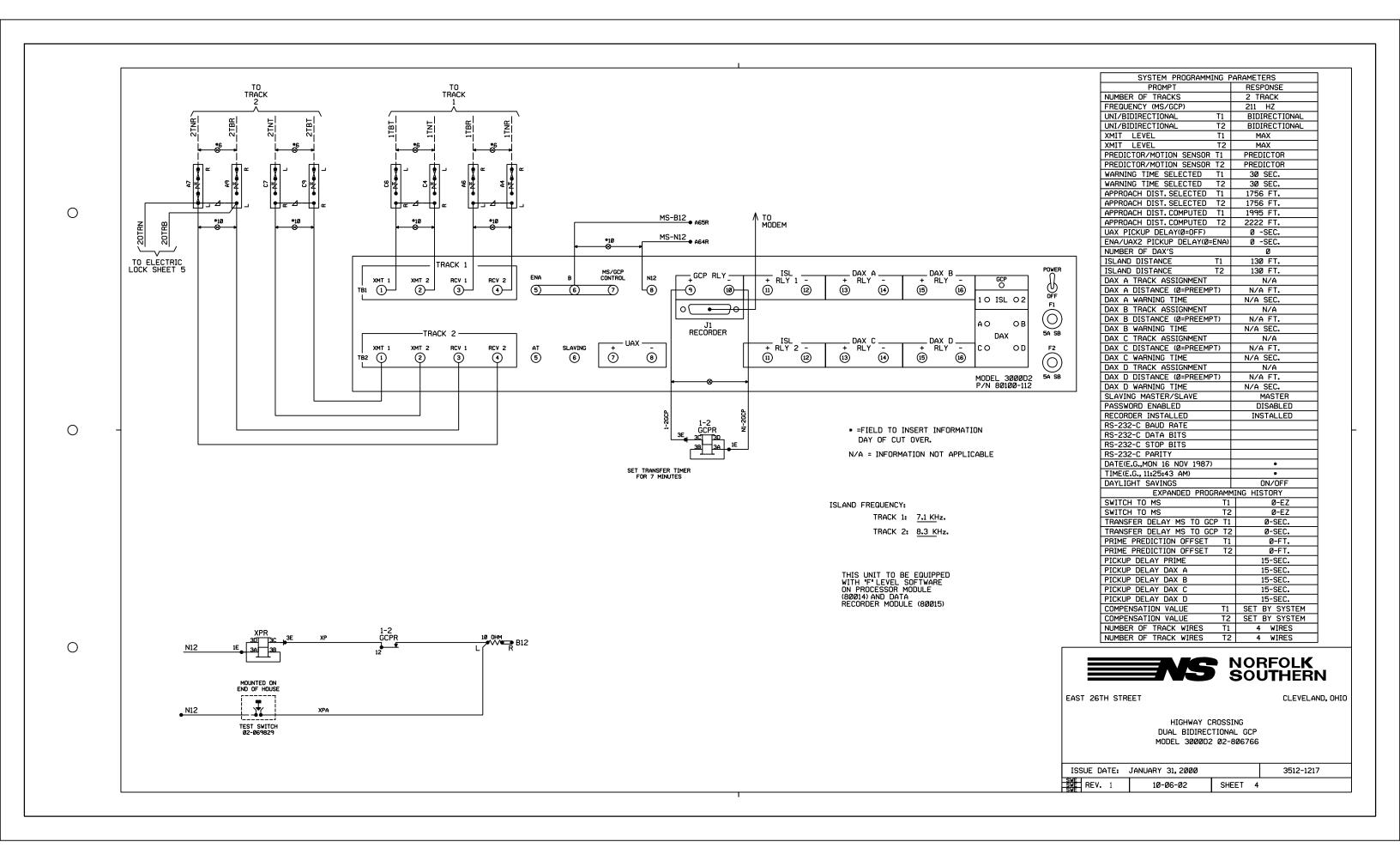
APPROVED BY STATE APPROVED BY RAILROAD CAR NUMBER SEAL NUMBER

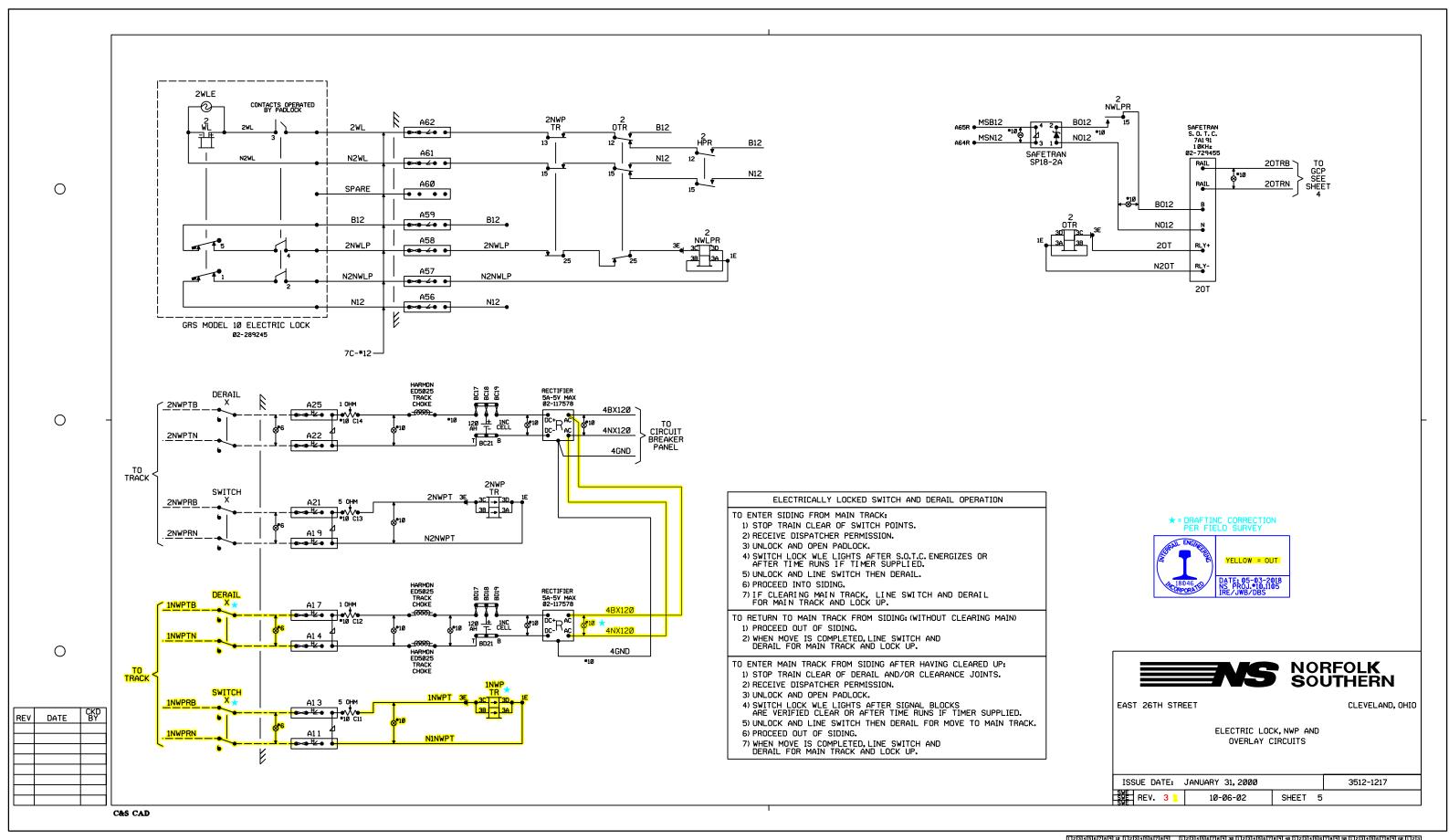
Friday, June 01, 2018 5:22 AM Page: 2 of 2

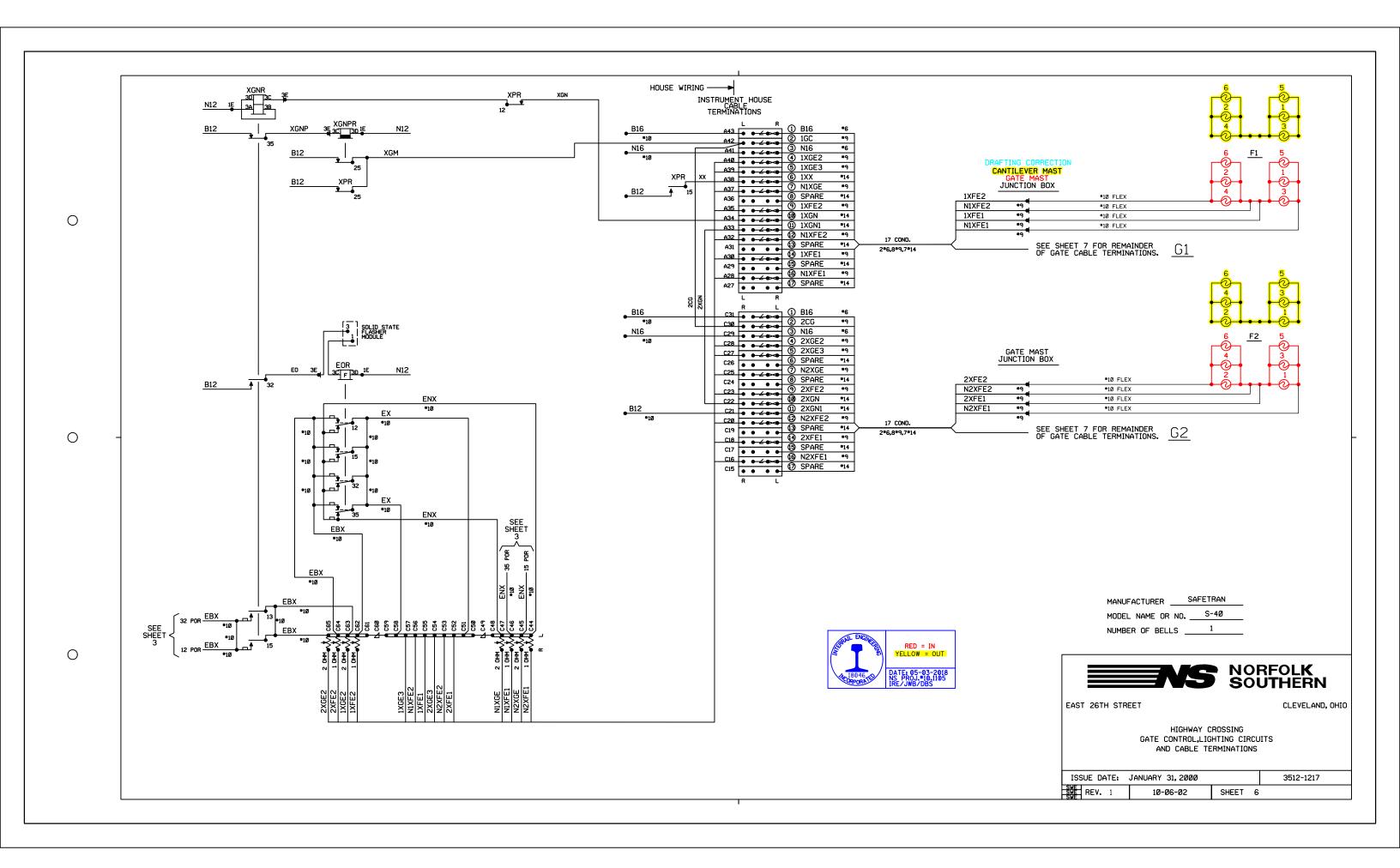


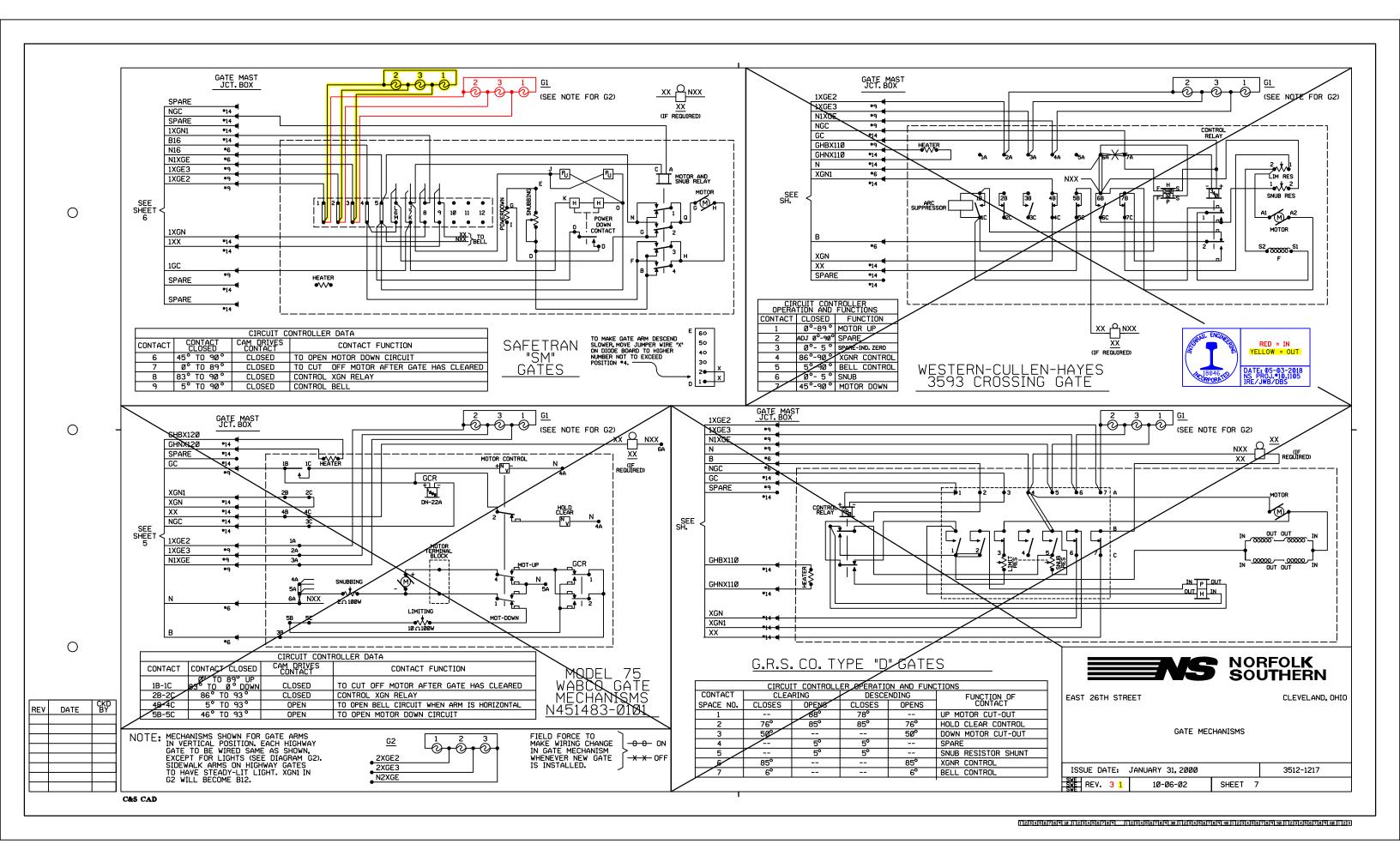


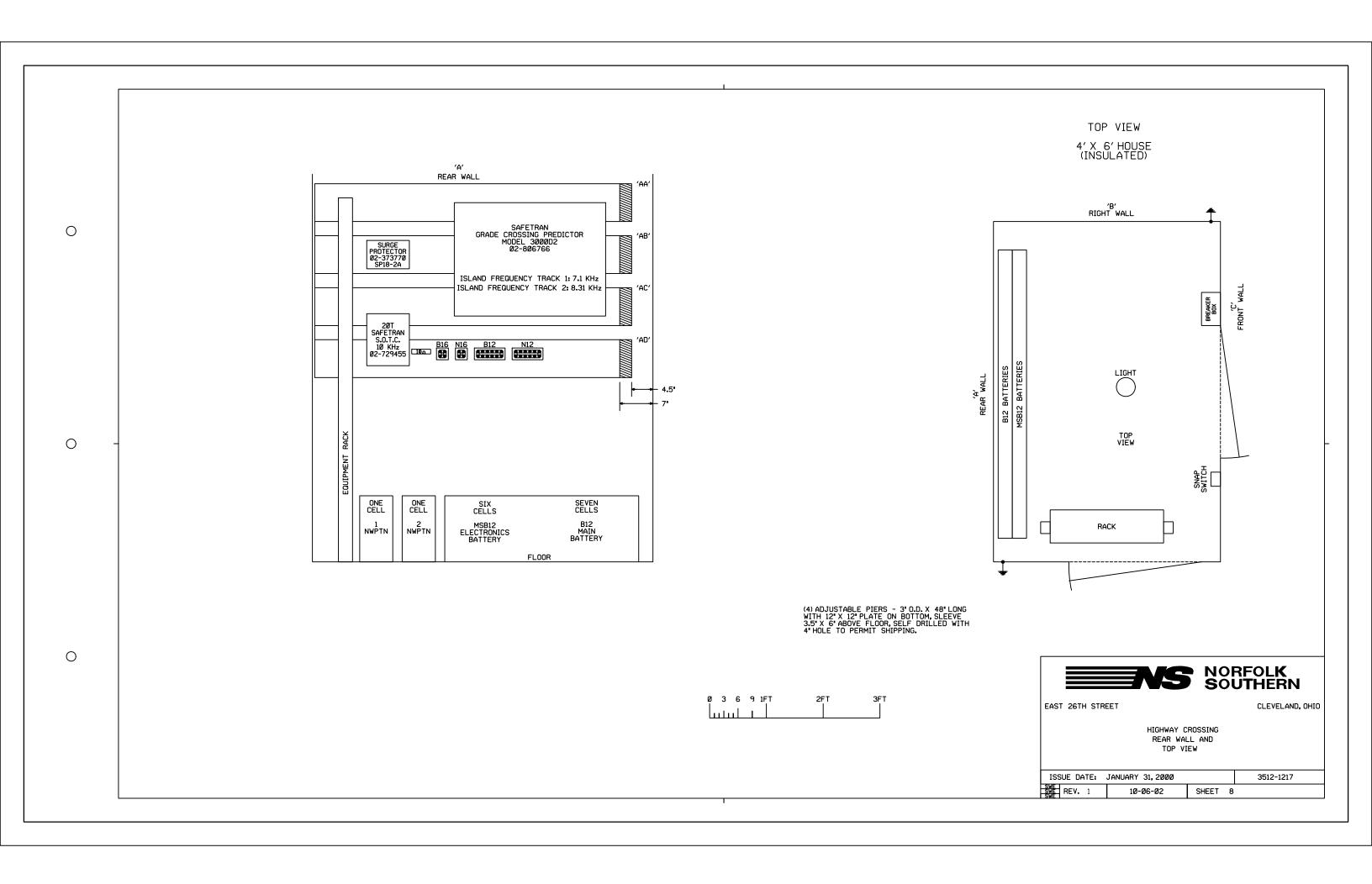


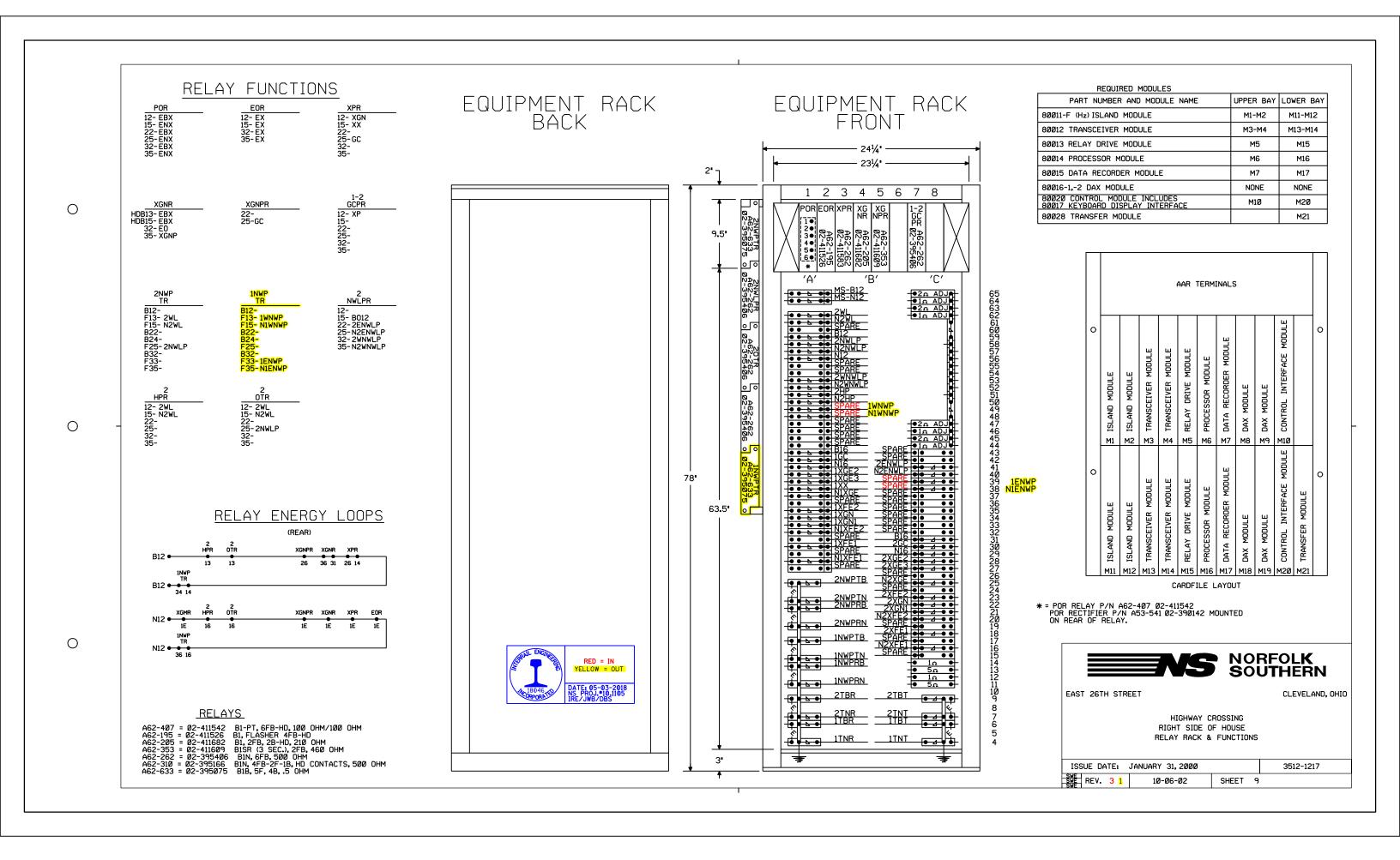


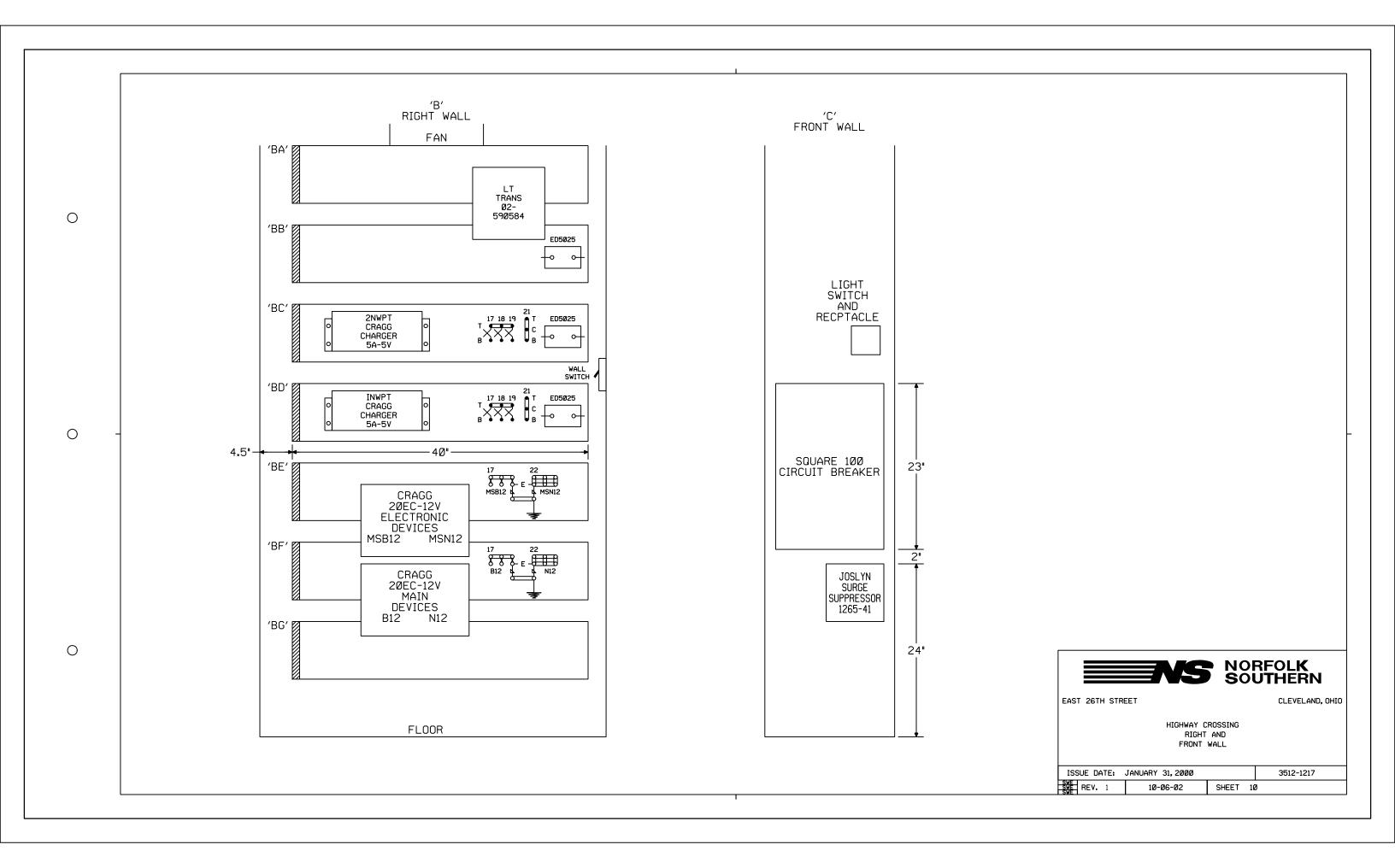














# OHIO RAIL DEVELOPMENT COMMISSION

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

February 22, 2018

Mr. Stephen J. Klinger Norfolk Southern Railway Company Administrator Grade Crossing Program 1200 Peachtree Street NE, Box 123 Atlanta, Ga. 30324

RE: Grade Crossing Warning Device Improvements.

Cuyahoga County, East 26th Street, DOT#524190E, PID#106847

Dear Mr. Klinger:

A diagnostic review was held at the above grade crossing on August 1, 2017. The crossing has been recommended to receive a L.E.D upgrade.

Norfolk Southern (NS) is authorized to proceed with the site plans and cost estimates (PE) or bid package for this project. This authorization is made with the stipulation and understanding that any field work needs prior approval before 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.

The diagnostic review form is attached. Please note any recommendations (page 1), if any, made by the team with regard to requirements for this location. Any minor roadway work necessary for MUTCD compliance should be incorporated into the PE and such costs will flow through the railroad reimbursement process.

The Project Manager for this project is James Tucker. James can be reached at (614) 398-6897, or james.tucker@dot.ohio.gov, if you have any questions.

Sincerely,

Project Manager

C: Randall Schumacher, Supervisor, Rail Division, PUCO

Jill Henry, Grade Crossing Planner, PUCO

Susan Arduini, ORDC

ORDC (file)

Attachment: 1 (diagnostic review form)



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

Columbus, OH

High Hazard	Crossing With Active War	rning Devices		
Street Name: E. 26 <sup>th</sup> Street	County: CUY			
LHA: City of Cleveland		USDOT#: 524190E		
Nearest City:		Hazard Rank: 121		
	Roadway Information			
ADT: 3674 (2015)	Posted Speed Limit:			
Railroad: Norfolk Southern	Number of Tracks: &	2		
Train Count: 23	Speed Over Crossing:	40		
Storage Distance (Ft.): Not Listed	Train Detection Type:	DC/AFO		
	Accidents			
Accident Factors	1 # of Accidents in Las	st 5 Years:		
	0 # of Fatalities in Las	t 5 Years:		
Accident Date	8/11/15			
Position of Accident	Stalled on Crossing			
Circumstance				
Visibility/Time of Day	Dark			
Weather Conditions	Cloudy			
Crossing Interconnect.	No			
Crossing Illuminated	No			
Drove Around Train	No			
Highway User Action	Stopped on crossing			
Alcohol/Drug Related?				
Driver Speeding?				
Other Notes: N. P.P.				
Recommendations:				
LEU Upgrade				
supplemental par	mer mx			
adv	( Cy stream)	W-10		
Brush cutting Working Working - City ROW				
	ya P	Koz		

County: CUY Route: E. 26<sup>th</sup> Street DOT#: 524190E Date: 8/1/2017

<b>Existing Traffic Control Device</b>	es	Company of the Compan
Type of Warning Devices	Installed?	Quantity/Comments
Advance Warning Signs (condition?)	Yes No	
'Stop' Signs	Yes No	20 Lakeside
'Stop Ahead' Signs	Yes No	
Pavement Markings (condition?)	Yes No	
Crossbucks	Yes No	2
Number of Tracks Signs	(Yes) No	2
Inventory Tags	Yes No	
Interconnected Highway Traffic Signal	Yes No	
Mast-Mounted Flashing Lights	Yes No	
Cantilever Flashing Lights	Yes (No	Number: Length:
Side Lights	Yes No	2 harride
Automatic Gates	Yes No	Number: 2 Length:
Bells	Yes No	Number:
Sidewalk Gate Arms	Yes No	
'No Turn' Signs	Yes No	
Illumination	Yes No	
Is crossing flagged by train crew?	Yes No	
Other	Yes No	
Railroad Data		
Railroad Characteristics	Initial Information (from	database) Revised
otal trains per day	23	
< I per day		
Day thru trains	9	
Night thru trains	7	
Daytime switching movements	4	1
Nighttime switching movements	3	0
Total number of tracks	8	2.
Number of main tracks	2	
Number of other tracks	1 (Siding)	
Maximum train speed	40	
Typical train speed	40	
Amtrak	50 mon	
If multiple tracks, can two trains	s occupy crossing at the same time	? Yes No
Can one train block the motoris	sts' view of another train at crossi	ng? (Yes (Explain below) No
Can one or more tracks be elim	ninated through the crossing? Ye	s (No)
Are there other track(s) crossing	ng this same roadway within 100 ft	of this crossing? Yes
If yes, Crossing DOT #(if dif	ferent)	
If yes, distance	_ (take measurement between tra	ck centerlines at closest point along road

County: CUY Route: E. 26<sup>th</sup> Street DOT#: 524190E Date: 8/1/2017

Roadway Data						
Local Highway Authority: City of Cleveland						
Roadway Characteristics	Initial Informatio	n (from database)	Revised			
Average daily traffic 3674	Tims (2015)					
Highway paved	Yes X No		Yes No			
Roadway Surface: Blacktop Gravel Con	crete Other					
Roadway width:ft. 47 ' +	42'	-				
Number of highway lanes	2					
Urban or Rural	Urban					
Vehicle Speed: MPH 25						
School Bus Operation: No	Yes Amount	?	<u> </u>			
Hazardous Materials Trucks: No X	Yes Amount	03				
Shoulders: No Yes						
Is the shoulder surfaced? No	Yes					
Is there existing guardrail along roadway in	crossing vicinity? No	Yes				
Is stopping site distance adequate	? (See Table 2) Yes	No If no, deficie	nt approach(es)			
Quadrant Curb and Gut	ter:	Quadrant	Curb and Gutter:			
Functional (Curb height = 4" or more)		Functional (Curb h	eight = 4" or more)			
Non-functional (Curb height = Less than	4")	Non-functional (Cu	rb height = Less than 4")			
None		None				
Pedestrians: No Yes						
Is sidewalk present? No Yes						
Is there a nearby intersection that could cal	use queuing over the cr	ossing? No Yes	Moving Queu			
If yes,			, sting Quee			
Street Name hakes du Distance						
Is this intersection signalized?	Yes					
Are the signals currently interconnected		ng warning devices? No	Yes			
Is there a 'Do not Stop on Track' sign? (	~ \	.S				
Is a roadway improvement project (e.g. wid		y new or upgraded traff	ic signal, sidewalk) planned at or ne	ear		
this location in the foreseeable future? No	Yes					
If yes, Improvement type Resurface	Load A	gency				
Timeline/completion 3-4 years	Lead A	gency King	<del></del>			
Is it the consensus of the Diagnostic Review	Team that this is a pot	ential closure project: (	No Yes			
Explain reasons:						
				N. Santalani		
Type of Development		<b>建设是在1987年</b>	27. State 2011 12. A 4. 为			
Open Space Institutional Location of nearby schools:						
Industrial Commercial		17th + Super	or : Charter School			
Residential						

CUY Route: E. 26th Street

DOT#: 524190E

Date: 8/1/2017

## 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:

NIA

Real Estate or ROW:

NIA

Culverts / Drainage / Ballast Conditions:

NIA

Roadway and/or Sidewalks:

Roadway ElEvation is higher than main #2

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

hAS A 3000 unit in the Bursalow.

Environmental:

NIA

Other:

County: TABLE I CUY

Route: E. 26th Street

DOT#: 524190E **TABLE 2** 

Date: 8/1/2017

### **Clearing Sight Distances**

Maximum Authorized Train	Distance (dT) Along
Speed	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 5foot 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.

### **Stopping Sight Distances**

Highway Vehicle Speed	Distance (dH) Along Roadway
<b>%</b>	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 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.

County: Coy Route: E 26	DOT#: 524190E				
Surface type	Condition				
☐ Rubber seal and asphalt	⊠. Good				
☐ Timber and asphalt	☐ Fair				
	□ Poor				
☐ Composite	Comments:				
☐ Concrete panel					
☐ Full-depth timber					
☐ Full-depth rubber					
□ Other					
Is the surface good and sufficient?	Yes / No				
Vehicle type (cars, trucks, etc.):					
Surface conditions:	rucks				
	y ES				
Local observations/driver behaviors: Dec	vers do Slow A b.t duc to				
elevation différences betwee	a the rail and roadway				
Do existing surface conditions have negative effects	on the current or proposed warning devices?				
Explain:					
Comments:					
	w2				

Date: \_\_\_\_\_

Form completed by:

Field Sketch			
		the course of sections/majority	
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	<b>←</b> 42′ → →		
		At An'	\$*9**
	e en	P= 40°	10'
Crossing Angle 0-29° 30-59°	760-90° Massured in	Quadrant?	
	J 00-70 Prieasured in	Quaurant:	
Sketch by:			

### Diagnostic Review

(CUY - E. 26<sup>th</sup> St. DOT # 524190E)

8/1/2017

### Please print:

NAME	AGENCY	EMAIL ADDRESS	PHONE
JAMES Tucker	ORDC	James, tucker@dot. Ottio. 900	614-398-6897
RANDY Johr	PUCO	ONFILE	330-495-3810
Cathy Stout	ORDC	catherine stout @ -gov	614 6440313
Ibrahim Al-Waeli	0121) C	Ibrahim. Al-wael adof. ch	614-973-1914
Tim Brown	OLOC	timothy.brown@dor.ohis	gav 614-728-5426
KENNETH HORN	NS CS	KENNETH . FEREND NO	CORP. COM 330-717-79
Andrew Woloszyn	NS < 25	Andrew W. Gozzy a @ Nocospe	n 446 315-8447
Romas PlioDzirkos	(02	RPLIODE ILSUAS @ CITY- CL	

This foregoing document was electronically filed with the Public Utilities

**Commission of Ohio Docketing Information System on** 

7/20/2018 1:00:28 PM

in

Case No(s). 18-1167-RR-FED

Summary: Application In the Matter of a Request for an Upgrade at the Norfolk Southern Railway Crossing, E. 26th Street DOT#524-190E, in Cuyahoga County, Ohio. electronically filed by Mrs. Jill A Henry on behalf of PUCO/Rail Division