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. 18-1137-RR-FED- In the Matter of a Request for an Upgrade at the Norfolk Southern Railway Crossing, Stow Road DOT#503-541T, in Summit County, Ohio.

On December 11, 2017, the Ohio Rail Development Commission (ORDC) authorized funding for Norfolk Southern Railway to install LED lights at Stow Road DOT#503-541T, in Summit County, Ohio. The crossing was surveyed on April 15, 2016 and found to warrant the upgrade. The electric utility provider for this crossing is First Energy Corp.- Ohio Edison.

The project will be paid for with federal funds and is actual cost. The plans and estimates for the project in the amount of \$22,311.00 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 24th 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 Hudson Thomas Sheridan Assistant City Manager 115 Executive Parkway #400 Hudson, OH 44236

First Energy Corp. – Ohio Edison

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 1.

SUBJECT: Summit County, Stow Road, Norfolk Southern

DOT#503541T, PID#106420

DATE: April 24, 2018

The Ohio Rail Development Commission (ORDC) established a diagnostic survey at the subject location on April 15, 2016. The Diagnostic Team recommended to upgrade to LED lights. 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

April 24, 2018

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

RE:

Summit County, Stow Rd, DOT #503541T

PID#106420, NS Project 10.1099

Dear Mr. Klinger:

The plan and estimate dated April 23, 2018, for the referenced project has been reviewed and is acceptable. NS may proceed with the construction of the proposed LED 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 \$22,311.00. 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 james.tucker@dot.ohio.gov and to the Public Utilities Commission of Ohio at jill.henry@puco.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 James Tucker at 614-398-6897 (telephone) or james.tucker@dot.ohio.gov (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.



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IMPROVING RAIL TODAY FOR TOMORROW'S ECONOMY

- 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: HUDSON, OH

Road: STOW ROAD

MilePost: RD-94.76

DOT/AAR: 503541T

State Proj. No.: PID 106420

County: SUMMIT

S&E Proj. No.: 10.1099

File Number: 061-10.895

Man Days: 18

Purchases - Others

Meals and Lodging:

\$2,462.14

Rental of Equipment:

\$3,365.74

(2 Trucks, 1 Backhoe w/ Trailer and 1 Pipe-Pusher for 3 Days)

\$514.84

Construction Supervision Vehicle:

Purchases - Other Total:

\$6,342.72

Material And Additives

Material Cost:

\$2,280.00

Sales and Use Tax:

\$182.00

Material Handling Freight:

\$228.03

Material Total:

\$2,690.03

Labor And Additives

Labor Cost:

\$5,796.00

(6 man crew at \$1,932.00 a day for: 3 days)

Payroll Tax & Overheads:

\$4,941.67

Preliminary Engineering:

\$848.01

Construction Supervision:

\$1,693.01

Labor Total:

\$13,278.69

Project Cost:

\$22,311.44

Scrap / Salvage Credit:

\$0.00

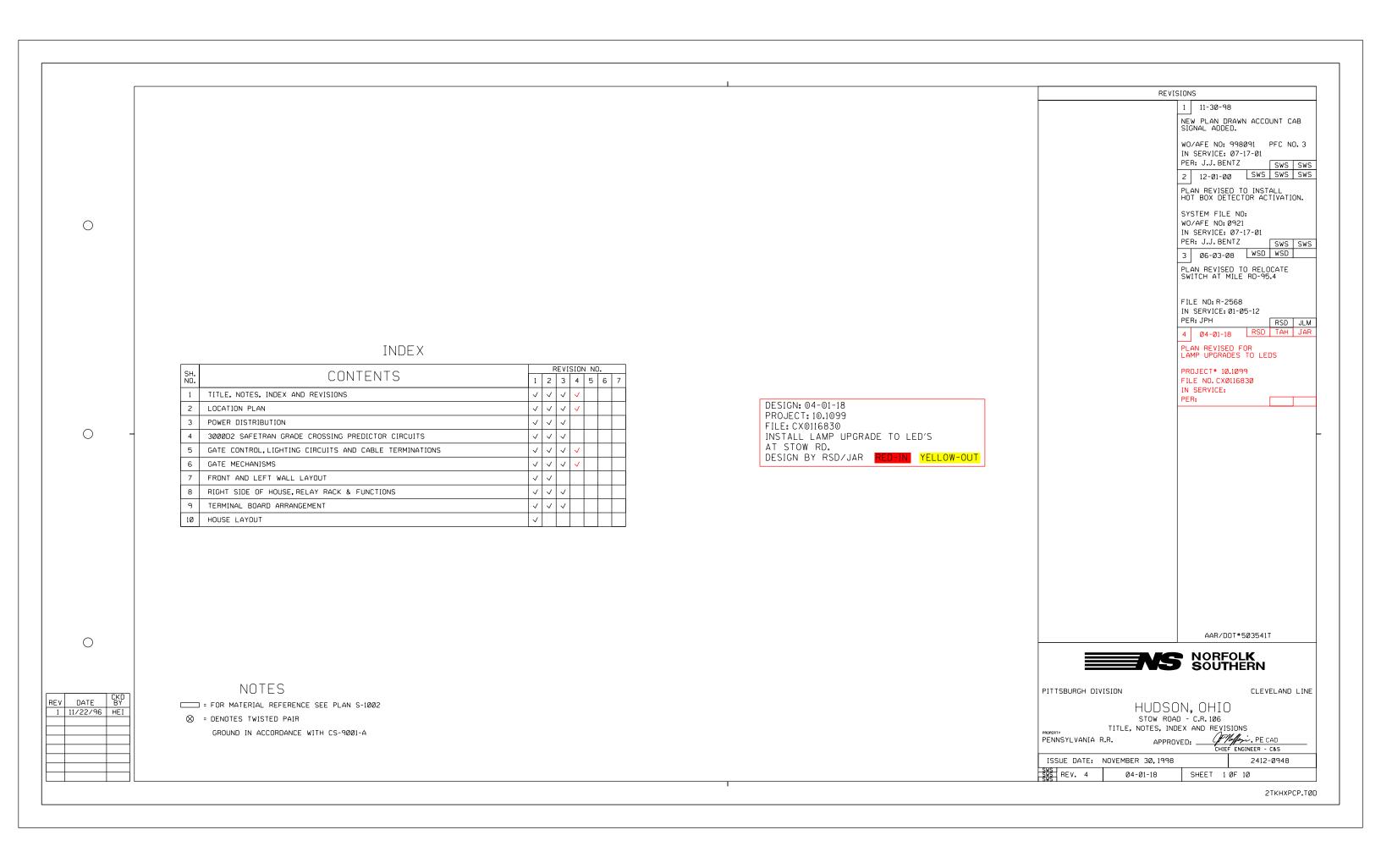
Project Total:

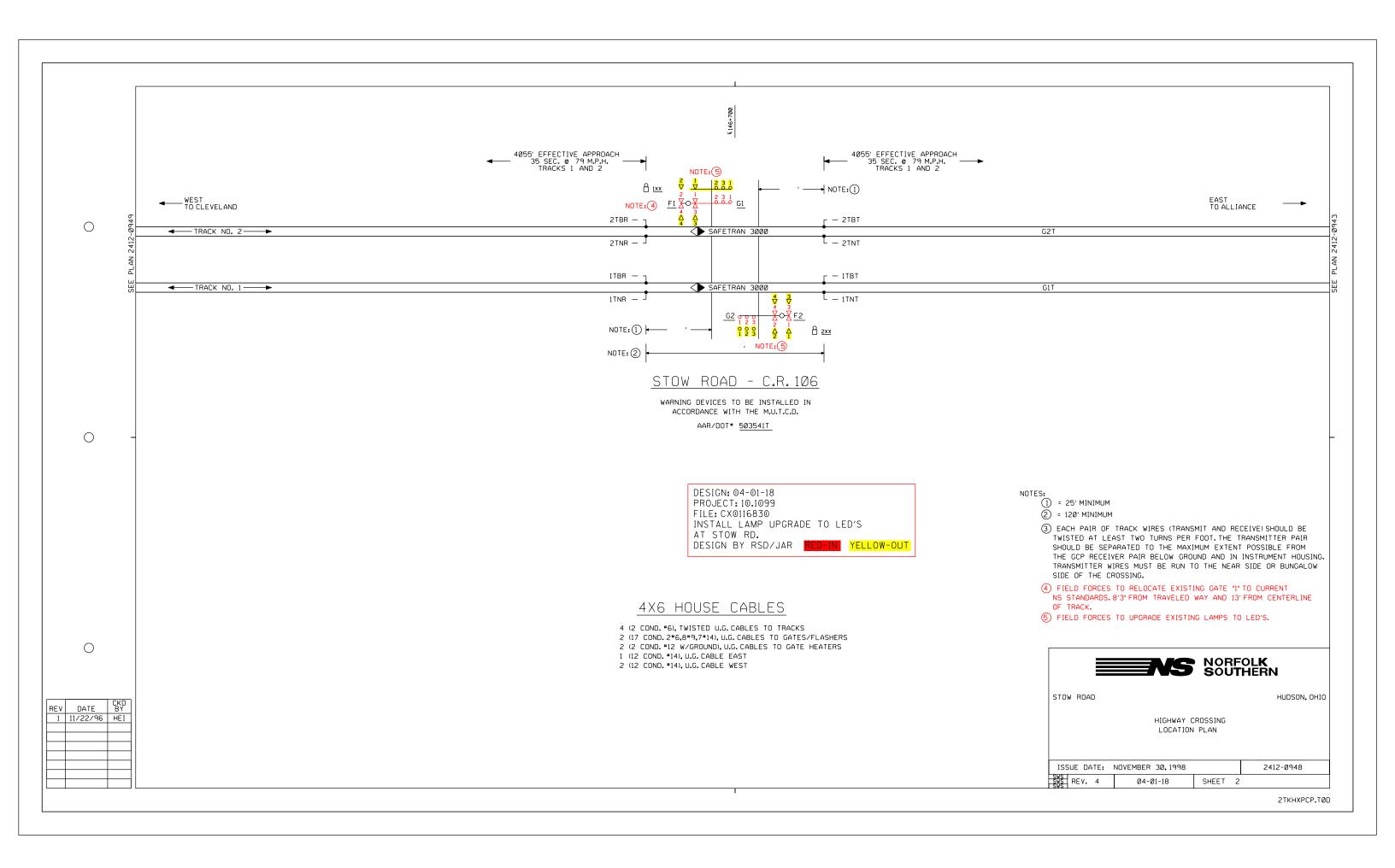
\$22,311.00

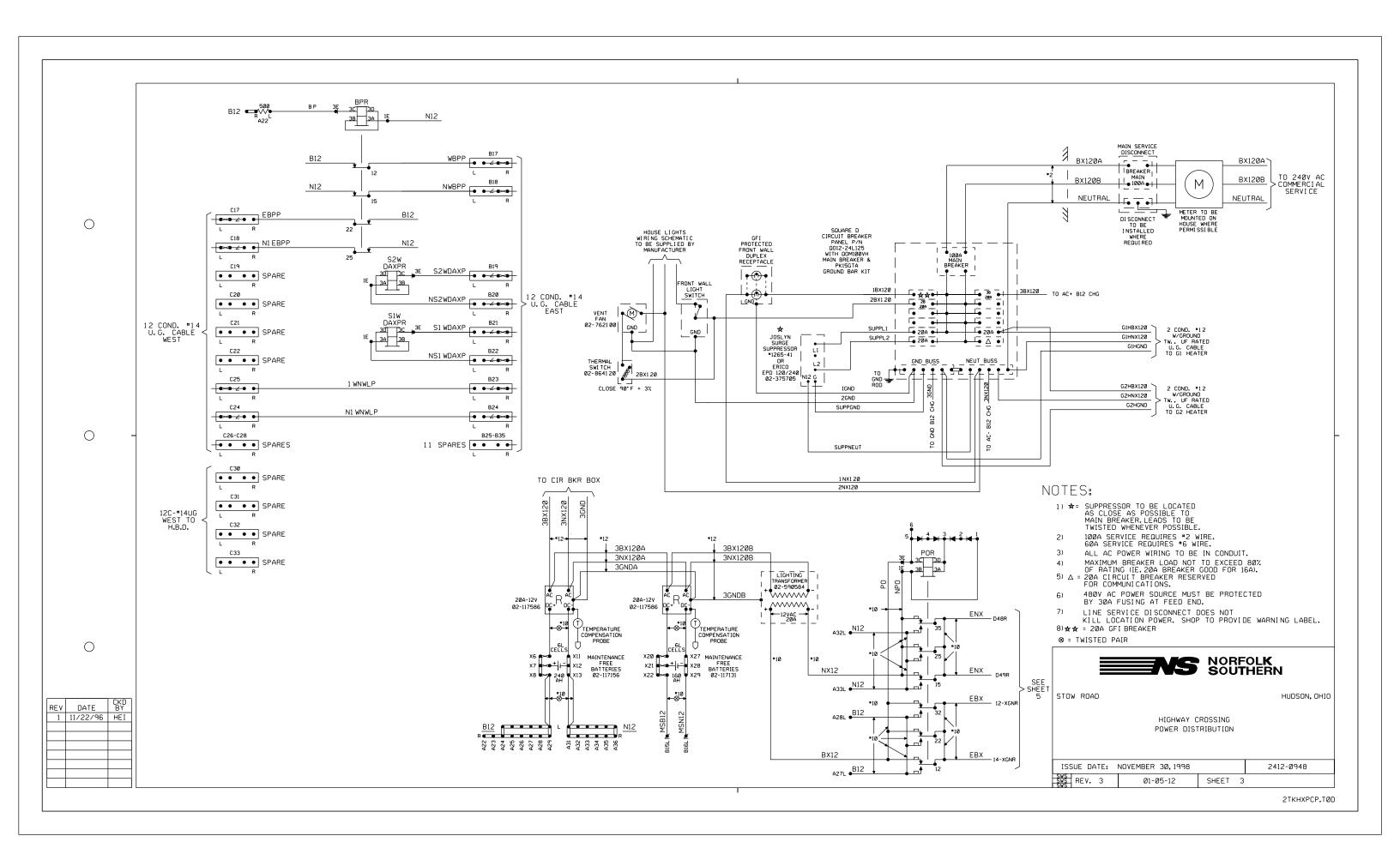
Estimated on: 23-Apr-18

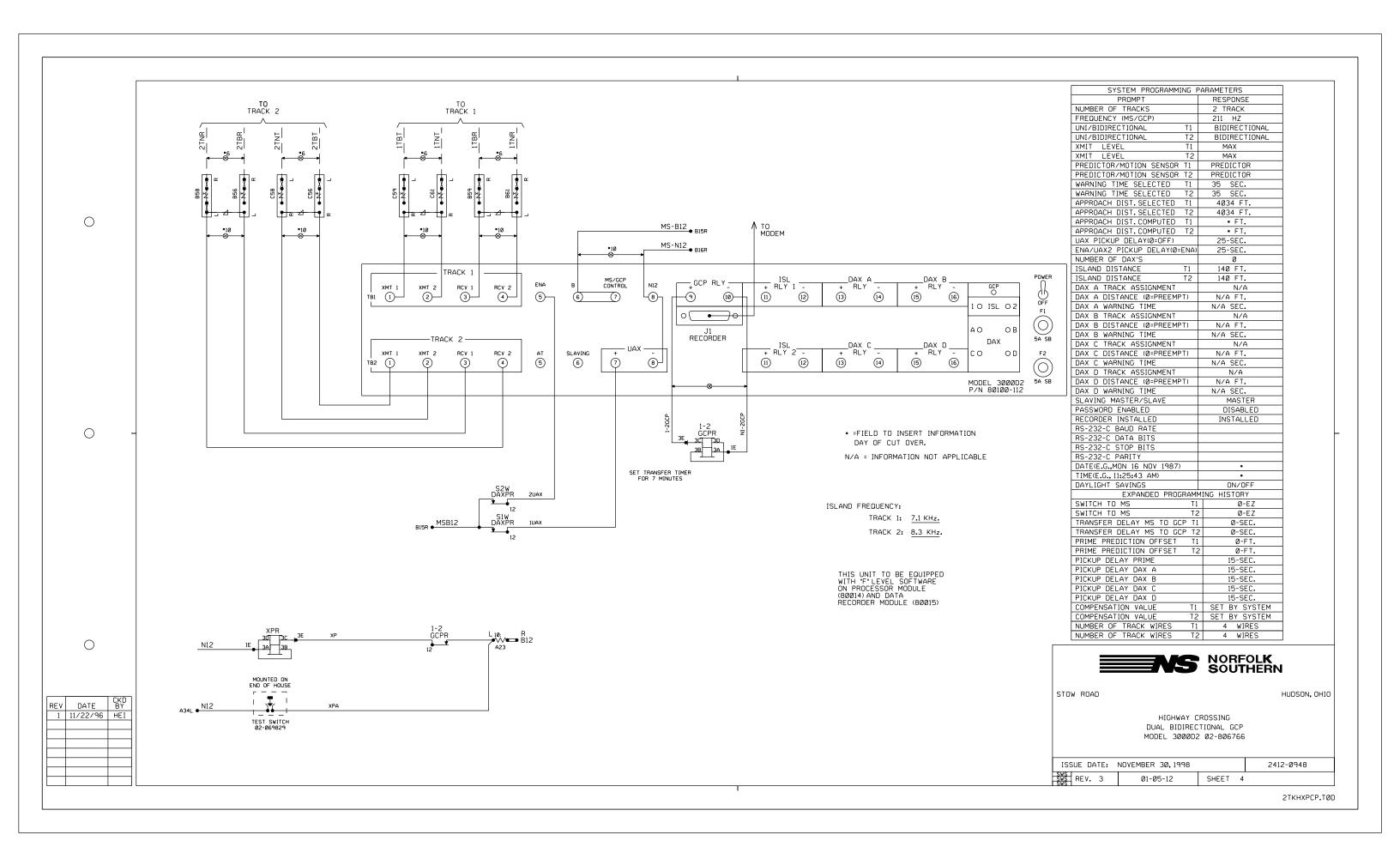
Estimated by: q2suj

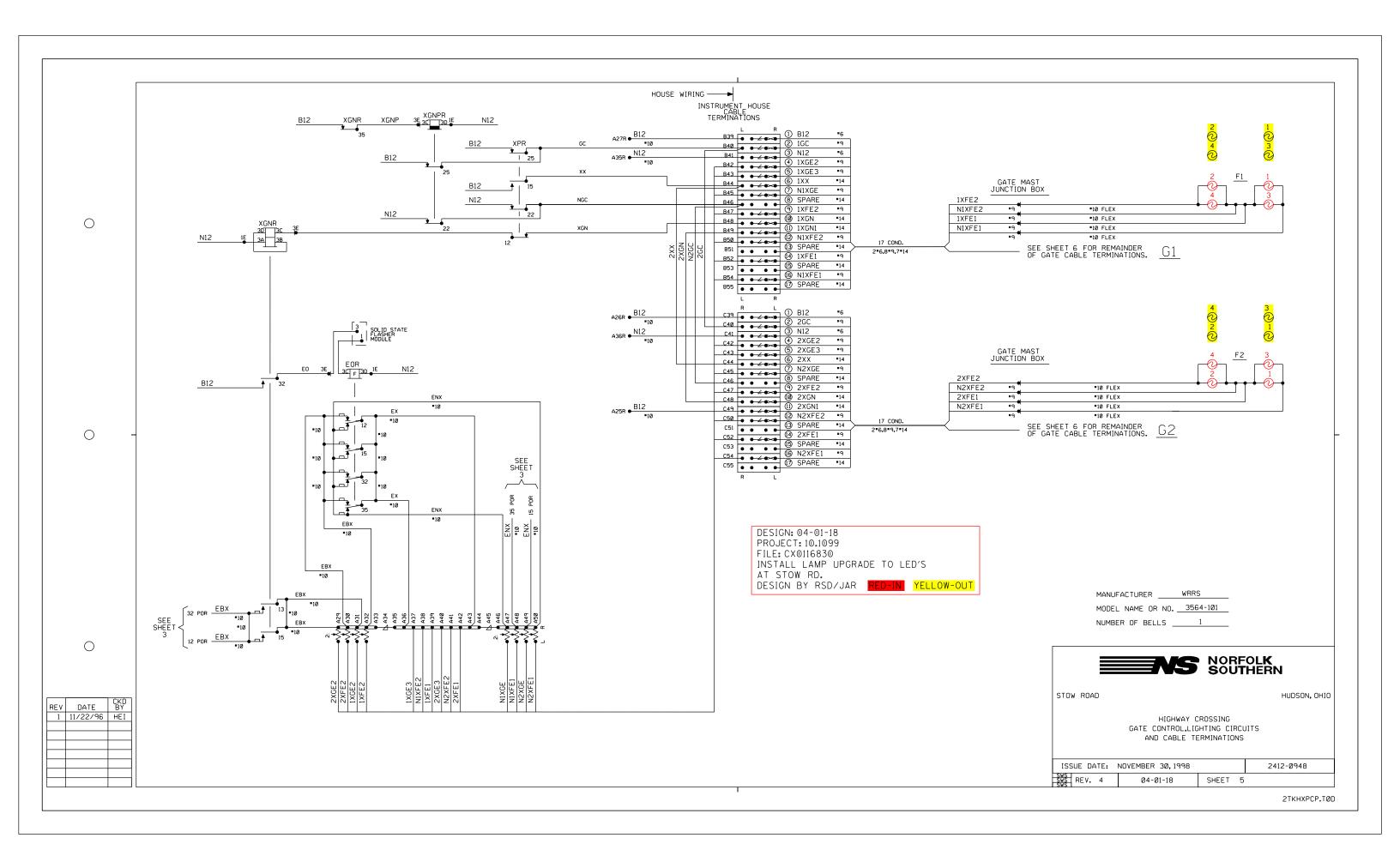
Estimate valid for 1 year from date of estimate

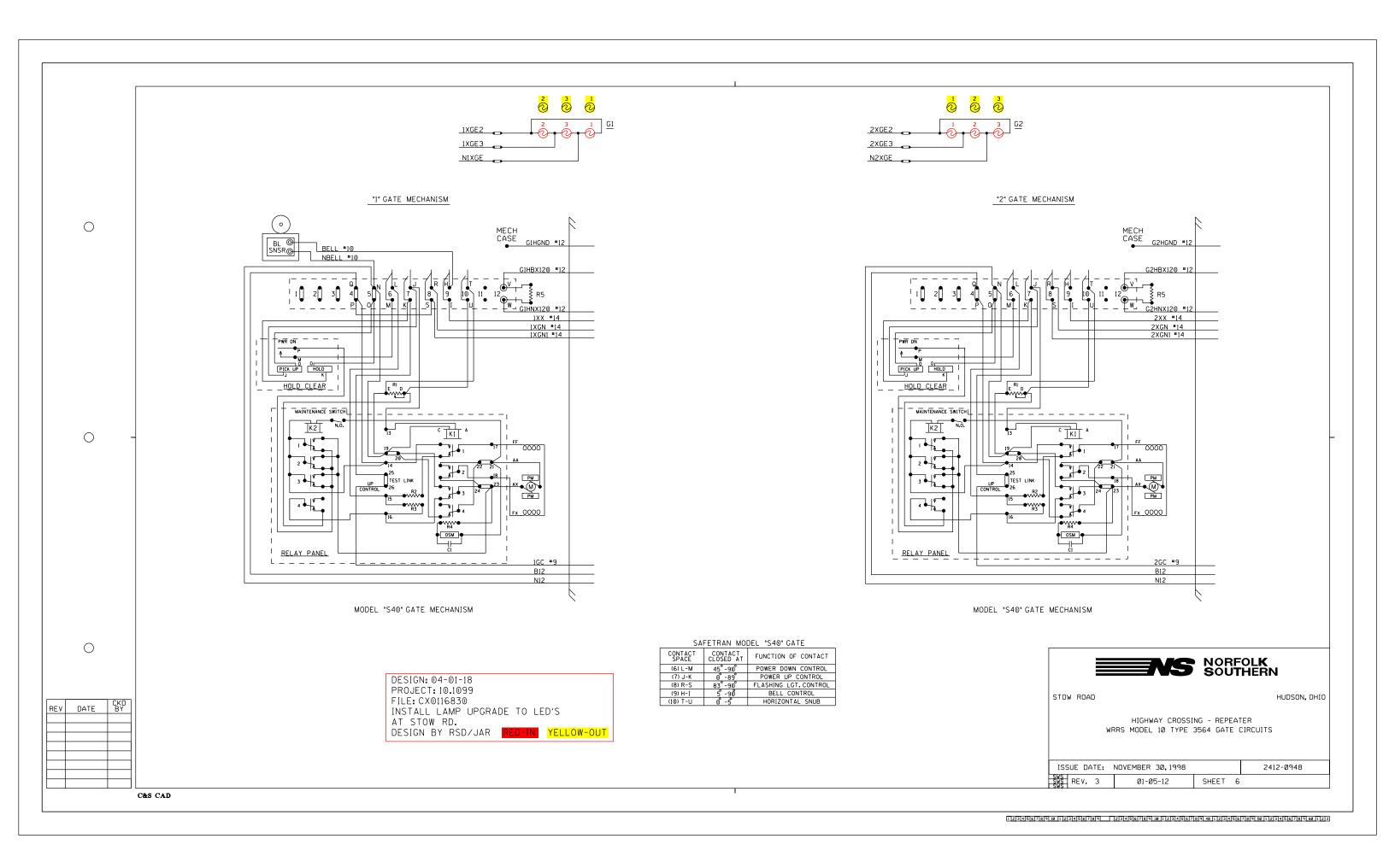


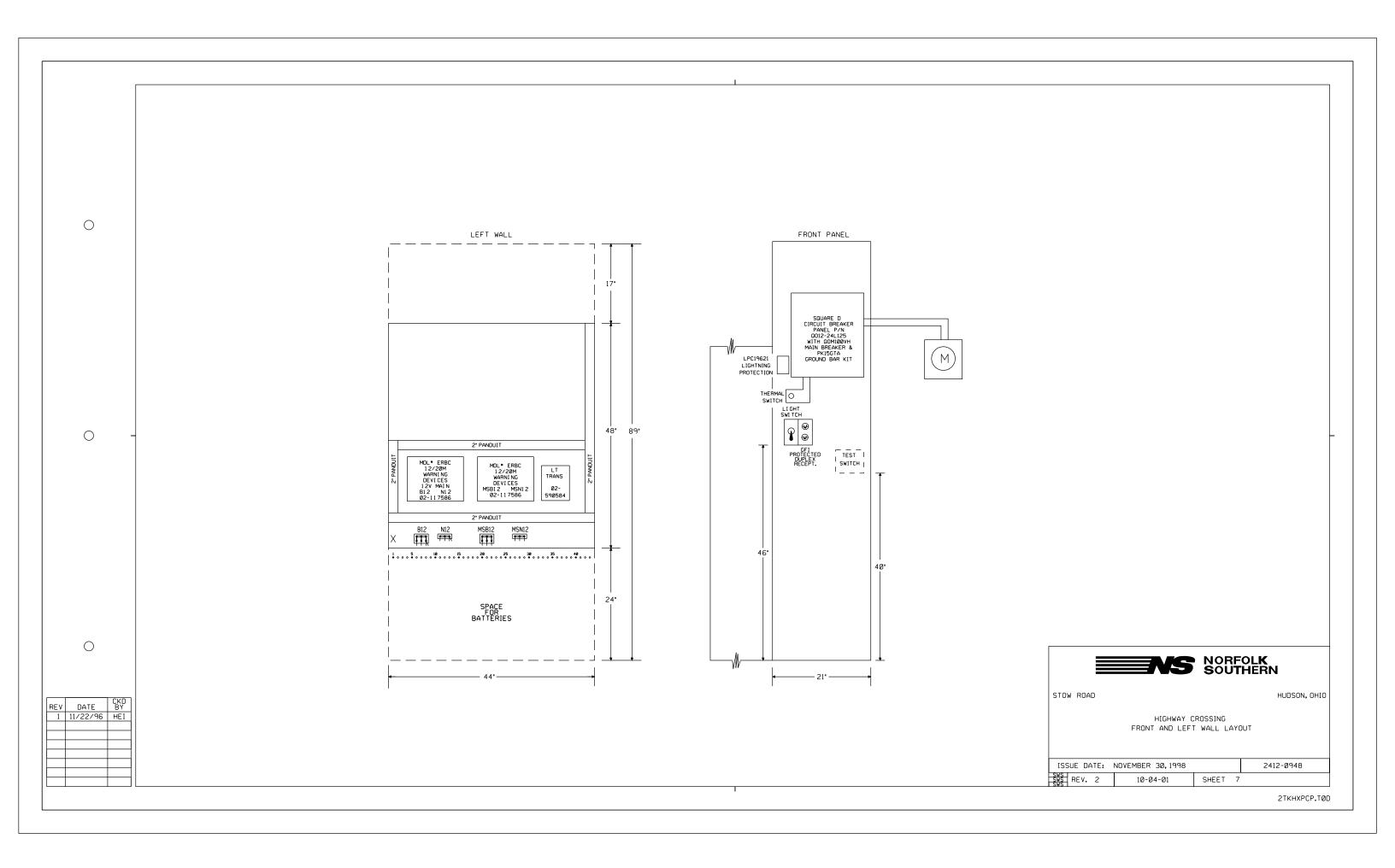


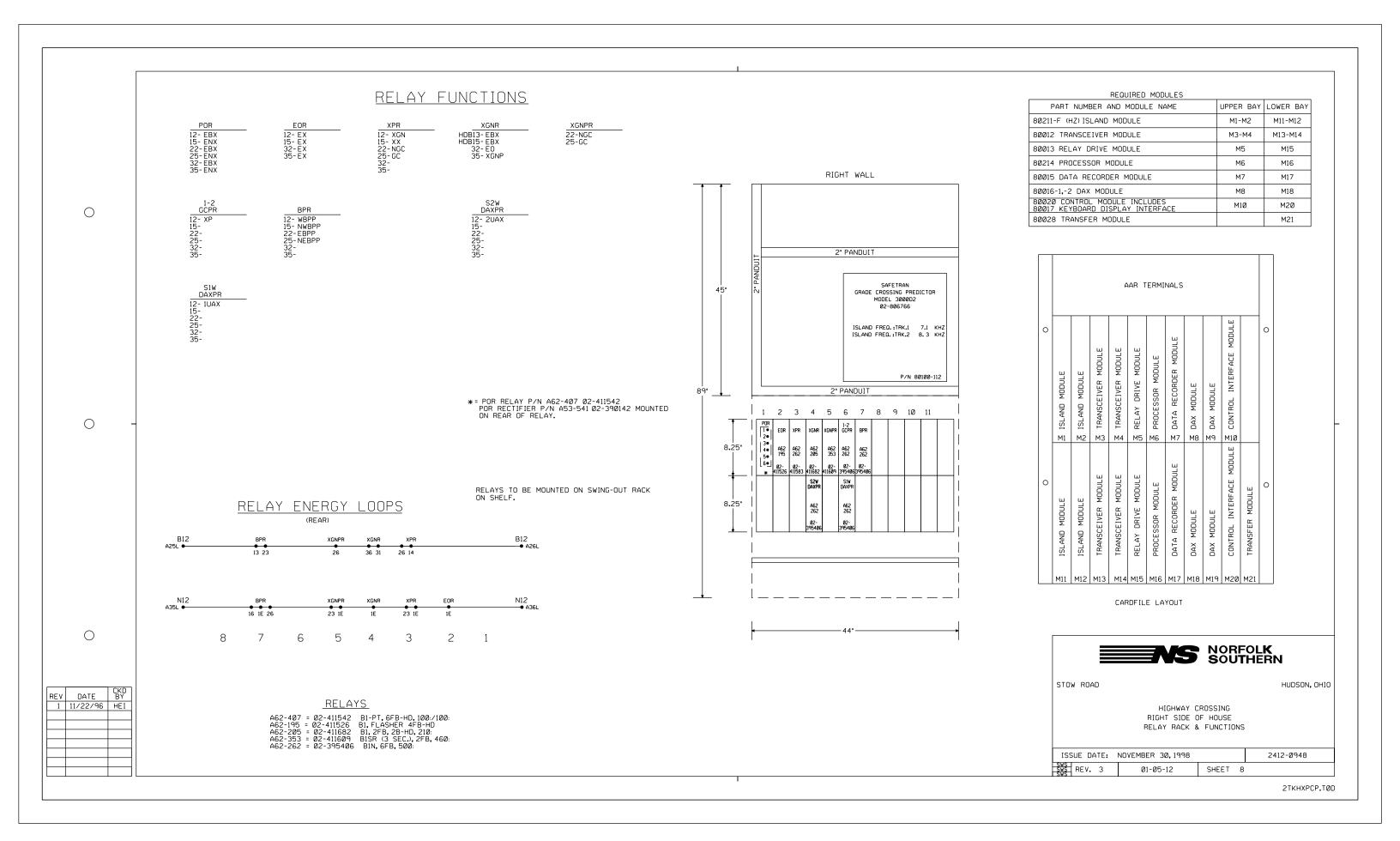


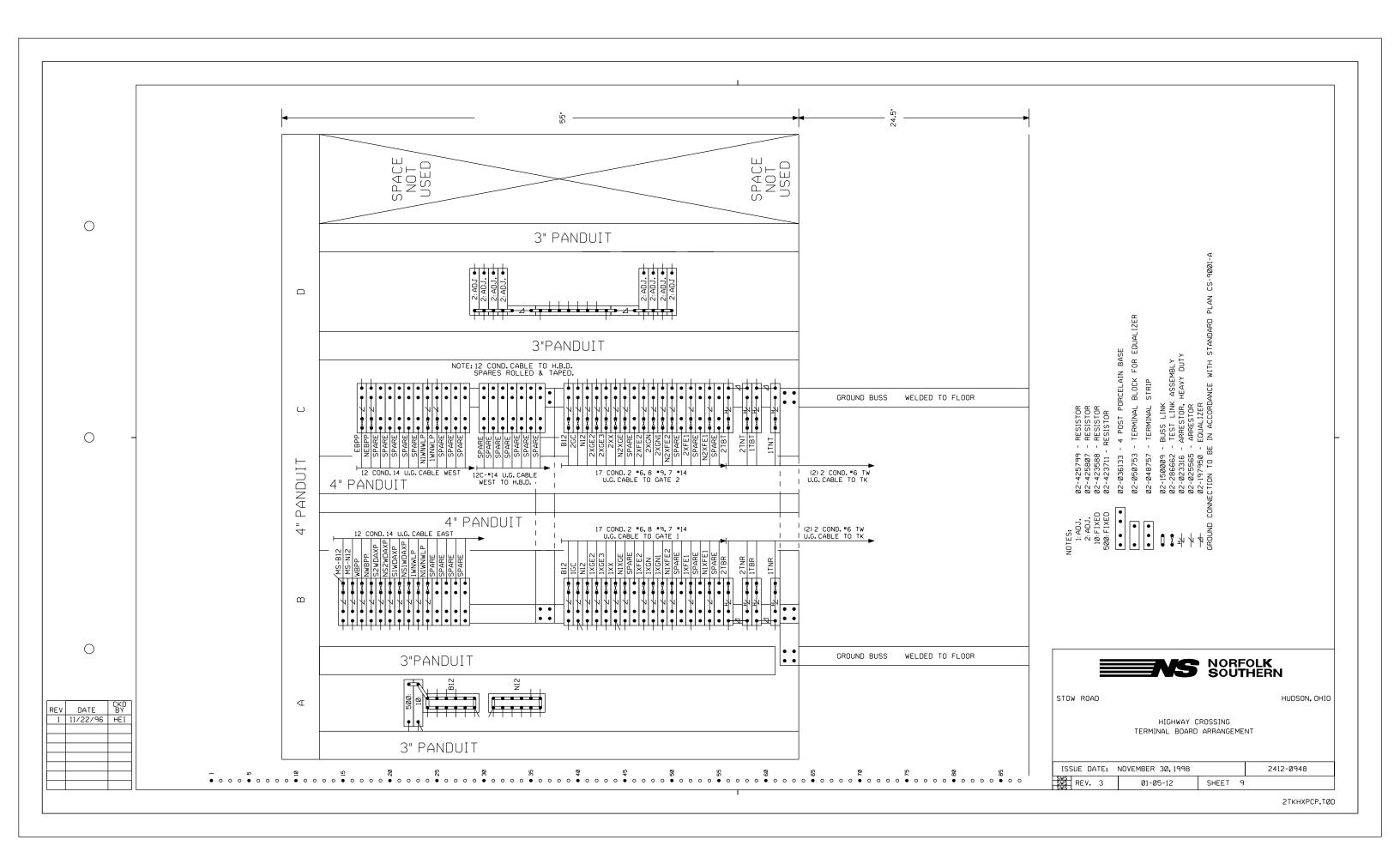


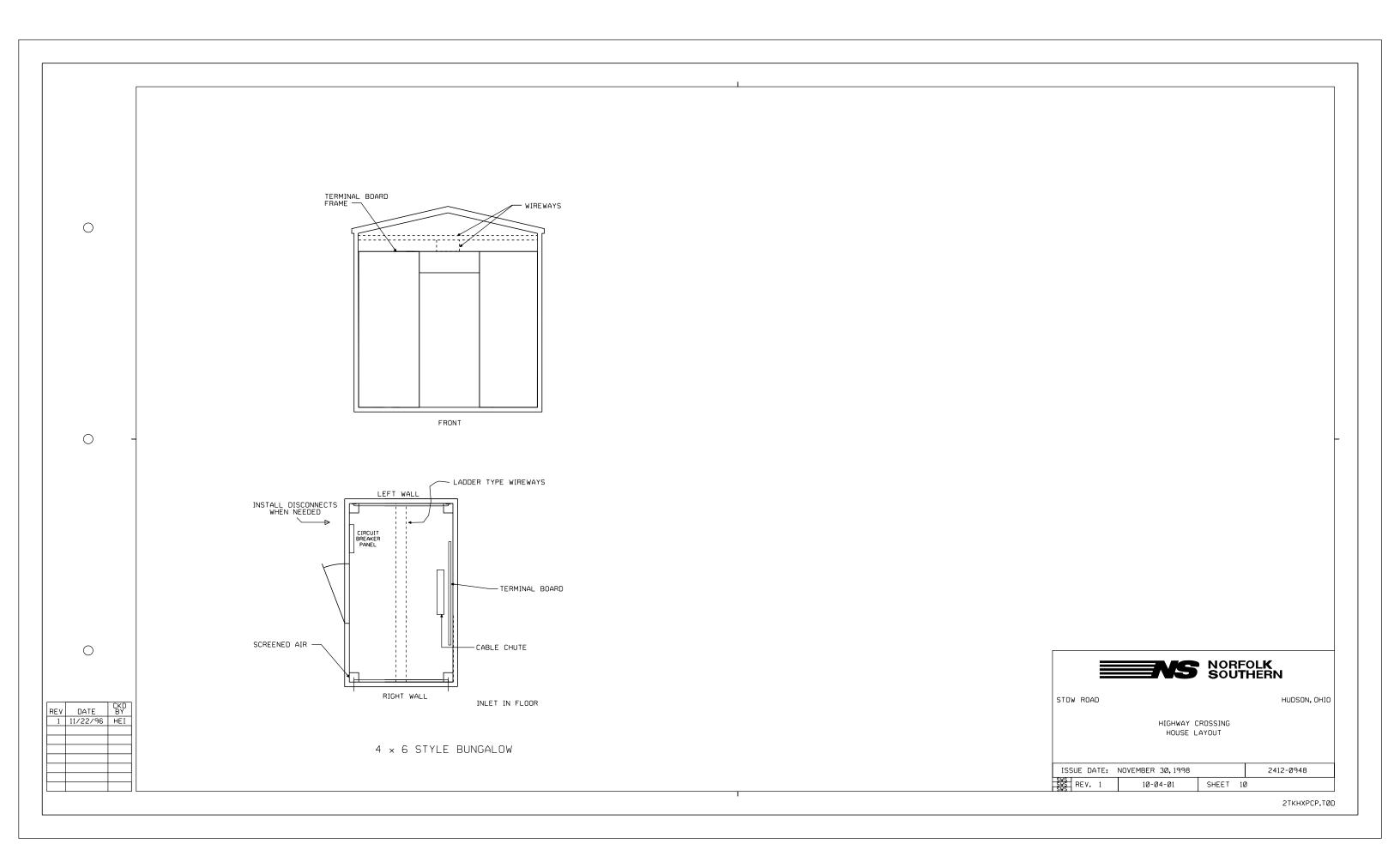














OHIO RAIL DEVELOPMENT COMMISSION

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

December 11, 2017

Mr. Stephen J. Klinger Norfolk Southern Administrator Grade Crossing Program 1200 Peachtree Street Atlanta, Ga. 30309-3597

RE: Grade Crossing Warning Device Modification Summit County, Stow Rd, DOT#503541T, PID#106420

Dear Mr. Klinger:

A diagnostic review was held at the above grade crossing on April 15, 2016. The crossing has been recommended to receive a LED light upgrade and replace the Island Relay Adapter module card.

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. Please note that the railroad must provide ORDC with a plan stamped by a professional engineer licensed in the State of Ohio prior to acceptance and close out of the project.

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 Wa	arning Devices			
Street Name: Stow Road	County: SUM				
LHA: City of Hudson	USDOT#: 503541T				
Nearest City: City of Hudson		Hazard Rank: 4			
	Roadway Information				
ADT: 11450 (2010)	Posted Speed Limit: N	one Listed.			
Railroad: Norfolk Southern	Number of Tracks: 2				
Train Count: 45	Speed Over Crossing: 6	0			
Storage Distance (Ft.): 1300	Train Detection Type: C	CWT			
	Accidents				
Accident Factors	2 of Accidents in Last 5	Years:			
	1 of Fatalities in Last 5 Y	ears:			
Accident Date	4/21/2013	2/23/2010			
Position of Accident	Moving over Crossing Rail equip. struck by	Stopped on Crossing Rail equip. struck by			
Circumstance	highway user	highway user			
Visibility/Time of Day	Dawn	Dusk			
Weather Conditions	Clear	Clear			
Crossing Interconnect.	No	No			
Crossing Illuminated	No	No			
Drove Around Train	No	No			
Highway User Action	Drove around the gate	Stopped on Crossing			
Alcohol/Drug Related?					
Driver Speeding?					
Other Notes: 4/21/2013: Motorist drove around gate and was struck by a train. 2/23/2010: Driver did not come to a stop until vehicle was on the crossing.					
Recommendations: City: No not stop on traces " signs (both stees) on N. approach					
Investigate line delinetars					
Consult internally to adoress salting					
RR = F of traves sign (s. approach)					
OROC: Could RR) IEDS					
Further Consultation w/ pre-emption/loop detector					

County: SUM Route: Stow Road DOT#: 503541T Date: 4/15/2016

Existing Traffic Control Device	es				
Type of Warning Devices		Installed?		Quantity/Comments	
Advance Warning Signs (condition?)		Yes No	0		
'Stop' Signs		Yes No			
'Stop Ahead' Signs		Yes N			
Pavement Markings (condition?)		Yes No	0	900	d (Z)
Crossbucks		Yes No	0		
Number of Tracks Signs		Yes No	0	0014 (1))
Inventory Tags		Yes No	0		
Interconnected Highway Traffic Signal		Yes No	<u>。</u>		
Mast-Mounted Flashing Lights		(Yes) N	0		
Cantilever Flashing Lights		Yes No		Number:	Length:
Side Lights		Yes No	<u>)</u>		
Automatic Gates		(Yes) No	0	Number: 7	Length:
Bells		Yes No	0	Number: 2	
Sidewalk Gate Arms		Yes No			
'No Turn' Signs		Yes N			
Illumination		Yes No	0		
Is crossing flagged by train crew?		Yes No			
Other		Yes No	0		
Railroad Data					Figure 1 - Service 1
Railroad Characteristics		Initial Information	(from d	atabase)	Revised
Total trains per day	4:	5			70
< I per day					
Day thru trains	20)			35
Night thru trains	20	0			30
Daytime switching movements	5				05
Nighttime switching movements	0				
Total number of tracks	2				
Number of main tracks	2	,			
Number of other tracks					
Maximum train speed	6	50			79
Typical train speed	\top				· · · · · · · · · · · · · · · · · · ·
Amtrak	\top				Ves
If multiple tracks, can two train	s occ	upy crossing at the san	ne time?	Yes No	
Can one train block the motori	ists' v	iew of another train at	crossing	g? Yes (Explain	n below) No
Can one or more tracks be eliminated through the crossing? Yes					
Are there other track(s) crossi	ng thi	s same roadway withir	100 ft c	of this crossing?	Yes No
If yes, Crossing DOT #(if di)
If yes, distance	If yes, distance (take measurement between track centerlines at closest point along roadway)				

DOT#: 503541T County: SUM **Route: Stow Road** Date: 4/15/2016 Roadway Data Local Highway Authority: City of Hudson **Roadway Characteristics** Initial Information (from database) Revised Average daily traffic 11450 (2010) 15000 Highway paved Yes X No No Yes Roadway Surface: (Blacktop) Gravel Concrete Other Roadway width: Number of highway lanes 2 Urban or Rural Urban Vehicle Speed: MPH Not Listed. School Bus Operation: No Yes X Amount will get into from school dist. Hazardous Materials Trucks: No Yes X .04 Amount A Signed Truck Poute Shoulders: No (Yes Is the shoulder surfaced? No Yes Is there existing guardrail along roadway in crossing vicinity? Yes Is stopping site distance adequate? (See Table 2) Yes No If no, deficient approach(es) 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 Bike Path Is sidewalk present? (No) Yes Is there a nearby intersection that could cause queuing over the crossing? No Yes) Street Name Pavenna ST. Distance Is this intersection signalized? No Are the signals currently interconnected with the existing crossing warning devices? No Yes Is there a 'Do not Stop on Track' sign? No Yes N.B. Oak Is a roadway improvement project (e.g. widening, turn lanes, nearby new or upgraded traffic signal, sidewalk) planned at or near this location in the foreseeable future? (No) Yes If yes, Improvement type Lead Agency _____ Timeline/completion

Is it the consensus of the Diagnostic Review Team that this is a potential closure project: (No Yes Explain reasons:				
Type of Development				
Open Space Institutional	Location of nearby schools	5:		
Industrial Commercial Residential	Location of nearby schools 2 miles Ser	on CAtholic		

County: SUM	Route: Stow Road	DOT#: 503541T	Date: 4/15/2016	
Potential Red	d Flags / Project Challenទ	ges		
Traffic Signal Pree	mption (include traffic signal inter	section name and LHA with juri	sdiction over traffic signal, if known)	•
Crossing Consolid	dation or Closure:		WWW.complexes and white was a second and a second a second and a second a second and a second a second and a second and a second and a	
Real Estate or RC	oW:			
Culverts / Drainag	ge / Ballast Conditions:			
Roadway and/or S	Sidewalks:			
Circuitry (e.g. rea	ches out to other crossings, speci	fic needs, etc.): Type Of d	etection present	
Environmental:	·			
Other:				

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	B= Power	\otimes						
	D=Luminare		\					
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	Crossing Angle 0-29° 30)-59° 📈 60-90)° Measur	ed in	Quadran	t? 		
	Sketch by: <u>JT</u>							
1								

County: SUM TABLE I

Route: Stow Road

DOT#: 503541T **TABLE 2**

Date: 4/15/2016

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 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.

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

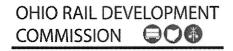
Source: R-H Grade Crossing Handbook Table 36 (pp. 132-133)

Notes:

All calculated distances are rounded up to the next higher 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.



Diagnostic Review

(SUM – Stow Road, DOT # 503541T) 4/15/2016

Please print:

NAME	AGENCY	EMAIL ADDRESS	PHONE
James Tucker	ORDC	James. Tucher@ dot. Otio. gov	614-398-6897
STEPHEN KLINGER	NS	Stylen. KlingWR N Scorp. com	404-617-5450
Joe Alexander	Hudson Fire	Joe alexander Dhudsenah.us	330 -342 - 1870
12ANDL Johr	PUCO	Joh	330-495-3\$10
Alex Kelemas	Hiday City Coungs	akelenen & hudson. os. us	330-208-2627
Cathy Stout	ORDC	dot. ohio gov	614 644 0313
Tim Brown	ORUC	Limothy- brown adotation	614 728 5426
BRIAN BATTAGUA	Hupson Police		330-342-1800
HOMAS SHEPPIDAN	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TShendanghodso	n. oh. US 330-342-1770

This foregoing document was electronically filed with the Public Utilities

Commission of Ohio Docketing Information System on

7/20/2018 12:57:48 PM

in

Case No(s). 18-1137-RR-FED

Summary: Application In the Matter of a Request for an Upgrade at the Norfolk Southern Railway Crossing, Stow Road DOT#503-541T, in Summit County, Ohio. electronically filed by Mrs. Jill A Henry on behalf of PUCO/Rail Division