### Public Utilities Commission of Ohio

# Memo

**To:** Docketing Division

**From:** Thomas Persinger, Rail Specialist, Rail Division

Cc: PUCO Legal Department

**Date:** 6/15/2022

**Re:** PUCO Case No. 22-0595-RR-FED In the Matter of a Request for the Upgrade of the Active Warning Devices at the Norfolk Southern Railway Crossing, Hines Hill Road, DOT#503-034K, Summit County, Ohio.

On March 21st, 2022, the Ohio Rail Development Commission (ORDC) authorized funding for Norfolk Southern Railway to install lights and gates at Hines Hill Road, DOT#503-034K, in Summit County, Ohio. The crossing was surveyed, on August 17th, 2021, and found to warrant the upgrades. The electric utility provider for this crossing is First Energy-Ohio Edison.

The project will be paid for with federal funds and is actual cost. The plans and estimates in the amount of \$38,825.00 have been approved. Construction may commence at once. **Staff requests a Finding & Order with completion of the project in six 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 Kurt Young Public Projects Engineer 650 West Peachtree Street NW BOX 41 Atlanta, GA 30308

Norfolk Southern Railway Company Cayela Wimberly Director Grade Crossing Safety 650 West Peachtree Street NW BOX 41 Atlanta, GA 30308

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

Ohio Rail Development Commission Allen Bell Manager, Grade Crossing Safety Program 1980 West Broad Street Mail Stop #3140 Columbus, OH 43223

City of Hudson Thomas Sheridan Interim City Manager 1140 Terex Road Hudson, OH 44236

First Energy-Ohio Edison

## OHIO RAIL DEVELOPMENT COMMISSION INTER-OFFICE COMMUNICATION

TO: John Williams, Transportation Director, PUCO

FROM: Allen Bell, Manager, Safety Section, ORDC

BY: James Tucker, Project Manager, ORDC JT

**SUBJECT:** Summit County, Hines Hill Rd, Norfolk Southern Railway

DOT#503-034K, PID#116116

**DATE:** May 24, 2022

The Ohio Rail Development Commission (ORDC) established a diagnostic survey at the subject location on August 17, 2021. The Diagnostic Team recommended that Norfolk Southern provide an interconnection with a normally closed "dry contact" for the city of Hudson to access. 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 six 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 Letter Agreement PE Authorization

c: Jill Henry, PUCO

Heather Hamilton, ORDC



Mike DeWine, Governor Jon Husted, Lt. Governor

Scott Corbitt. Chair

May 24, 2022

Mr. Kurt Young Public Projects Engineer 1200 Peach Street NE, Box 123 Atlanta, Ga. 30309

RE: Warning Device Interconnect Summit County, Hines Hill Rd, DOT#503-034K

PID#116116, RR Ref #10.2159

### Dear Mr. Young:

The plan and estimate dated May 23, 2022, for the referenced project has been reviewed and is acceptable. Norfolk Southern (NS) may proceed with the construction of the proposed interconnect cable with the City of Hudson 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 \$38,825.00. 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.ohio.gov">jill.henry@puco.ohio.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 shall send copies of each partial bill to <u>ORDC.Invoice@dot.ohio.gov</u>. Please find the enclosed ODOT Purchase Order to reference when billing.
- 6. NS will furnish two (2) copies of the final all-inclusive bill to ORDC stating the exact dates of starting and completing work, the initial and final dates of construction and location where the accounts may be audited.
- 7. This installation will include any ancillary work to make the warning devices function as designed and meet MUTCD.

Thank you for your assistance with these matters.

Sincerely,

James Tucker

Project Manager

C: John Williams, Director, Transportation Department, PUCO Jill Henry, Rail Division Chief, PUCO Heather Hamilton, ORDC ORDC (file)

#### REVISIONS 11-30-98 NEW PLAN DRAWN ACCOUNT CAB SIGNAL ADDED. INDEX WO/AFE NO: 99-8Ø91 IN SERVICE: 07-15-01 REVISION NO. SH. PER: J.J. BENTZ CONTENTS JJB SWS 1 2 3 4 5 6 7 NO. 2 11-01-00 SWS SWS SWS V V V V NX1 TITLE, NOTES, INDEX AND REVISIONS PLAN REVISED ACCOUNT JOINTS RELOCATED 1000' EAST. 2 LOCATION PLAN FILE: R-Ø921 2 EXISTING PROFILE WO/AFE NO: 99-8Ø91 IN SERVICE: Ø7-15-Ø1 3 POWER DISTRIBUTION CIRCUITS PER: J.J. BENTZ JJB SWS V V V 4 POWER DISTRIBUTION AND CABLE CIRCUITS 3 7-30-01 SWS SWS SWS 11/1/1 5 | ELECTRO CODE 4 TRACK CIRCUITS - TRACK 2 PLAN REVISED ACCOUNT CSC FILTERS UPGRADED TO REDUCE NOISE - NBS UNITS ALSO CHNGD V V V 6 | ELECTRO CODE 4 TRACK CIRCUITS - TRACK 1 7 UNIT 1 SEMI-BIDIRECTIONAL 3000D2 SAFETRAN GCP MODEL - TRACKS 1 & 2 - WEST V V V FILE: R-0921 8 UNIT 2 SEMI-BIDIRECTIONAL 3000D2 SAFETRAN GCP MODEL - TRACKS 1 & 2 - EAST WO/AFE NO: 99-8Ø91 IN SERVICE: | | | | | | | 9 GATE CONTROL, LIGHTING CIRCUITS AND CABLE TERMINATIONS GATE MECHANISM TYPICAL 4 Ø5-23-22 MEM PRS JMW 10 SIGNAL #1 GATE LIGHTS WITH MODEL "S60" GATE MECHANISIM PLAN REVISED ACCOUNT OF HINES HILL RD. SIMULTANEOUS PREEMPTION SIGNAL #2 GATE LIGHTS WITH MODEL "S60" GATE MECHANISIM 12 RELAY RACK, ENERGY LOOPS, FUNCTIONS AND 8'X 8' APPARATUS ENCLOSURE LAYOUT PROJECT: \*10.2159 V V V 13 WALL LAYOUT IN SERVICE: XX-XX-XX PER: XXX V V V 14 TERMINAL BOARD ARRANGEMENT XXX XXX PROJECT: #10.2159 AAR/DOT \*503034K CONRAIL RED = INYELLOW = OUT DESIGN: 03-24-22 PROGRESS RAIL DEARBORN DIVISION CHECK: 05-23-22 HIGHLAND SPRINGS, OHIO JMW HINES HILL ROAD/REP 99.7 Phofferi, PE CAD APPROVED: PHILADELPHIA, PA. CHIEF ENGINEER - C&S ISSUE DATE: NOVEMBER 30, 1998 2412-0997 SWS REV. 4 Ø5-23-22 SHEET NX1 1

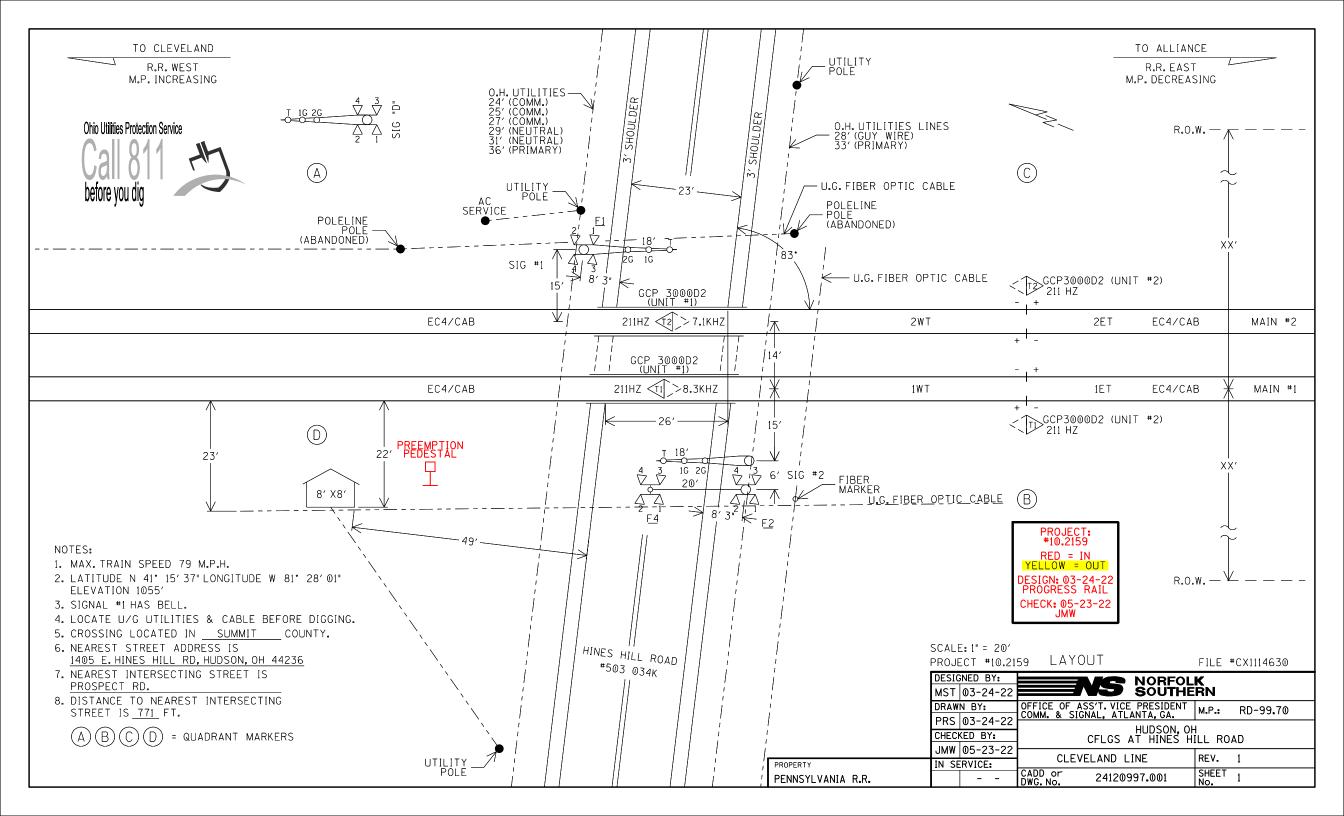
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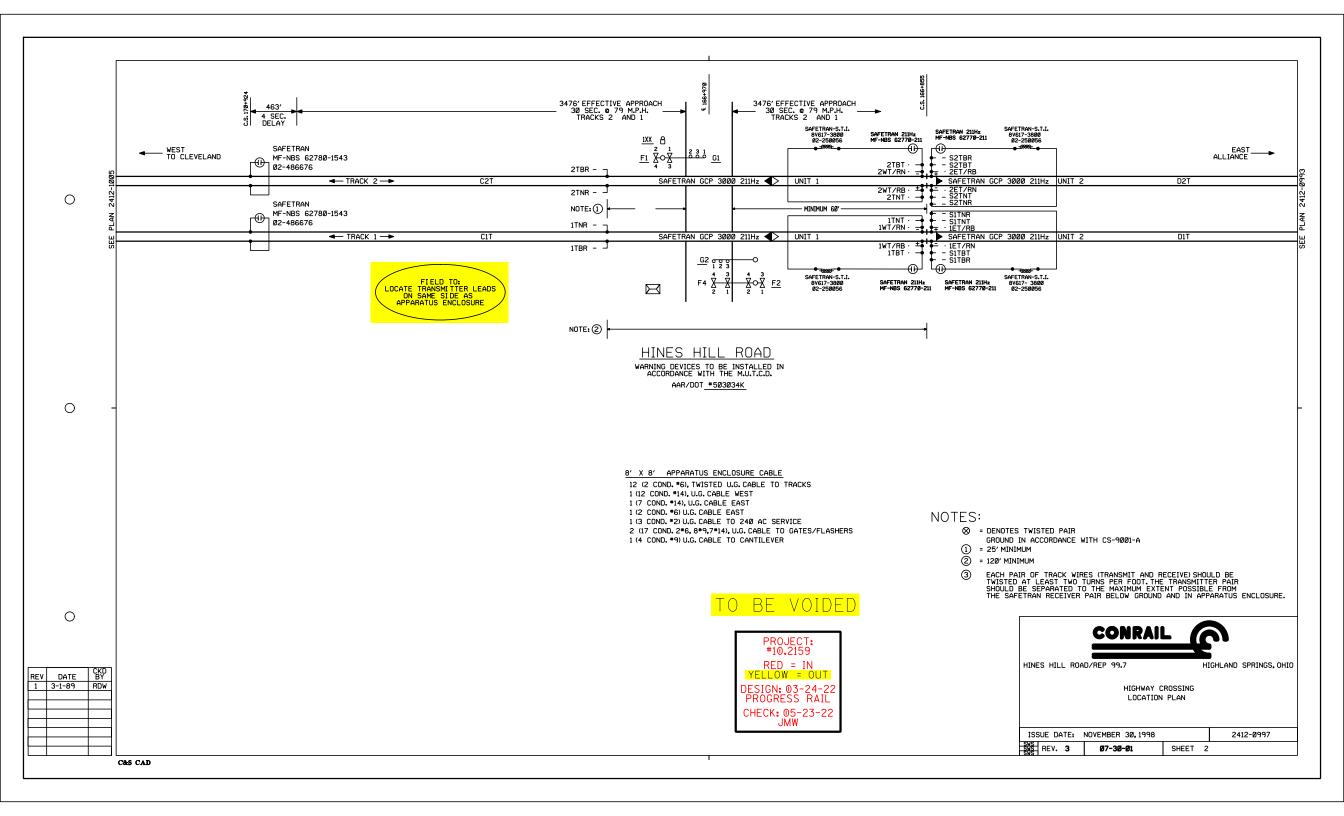
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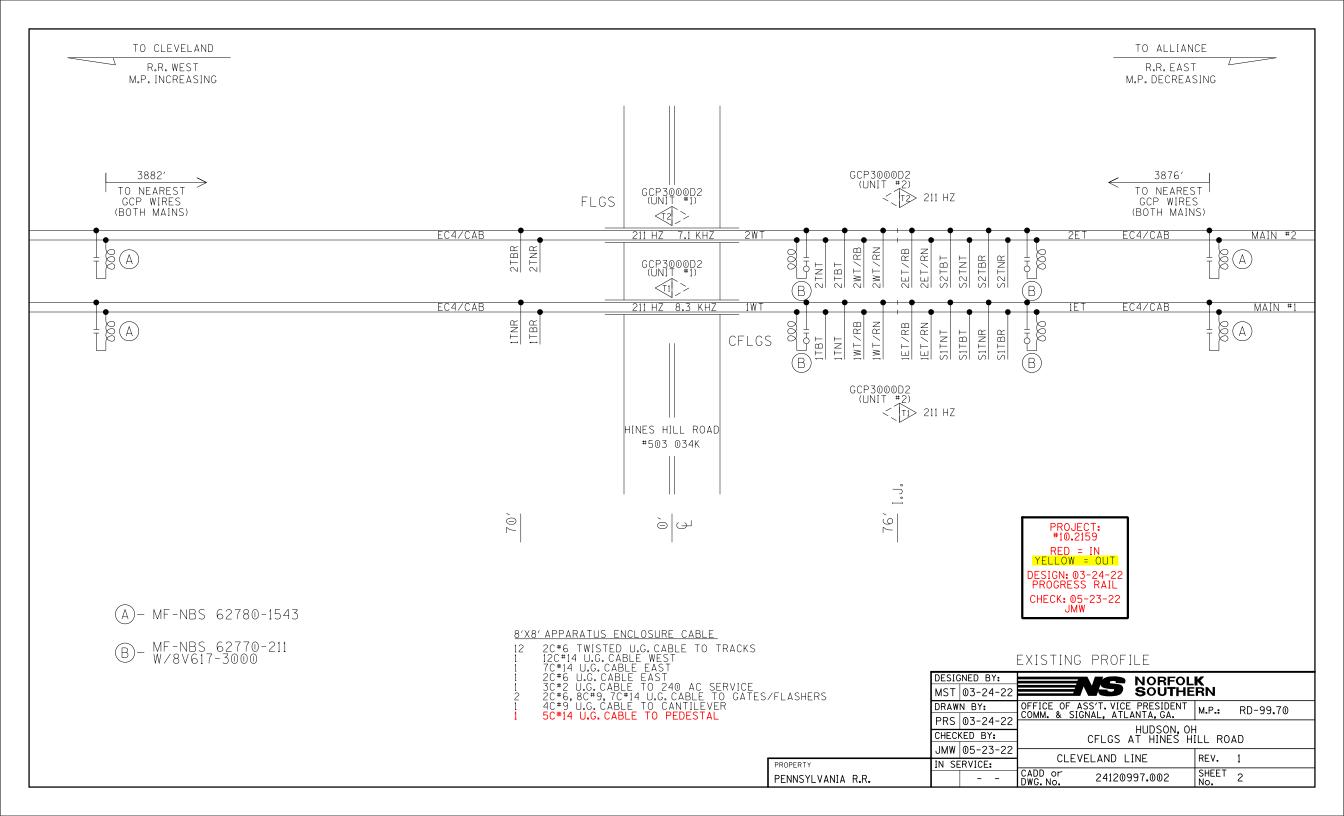
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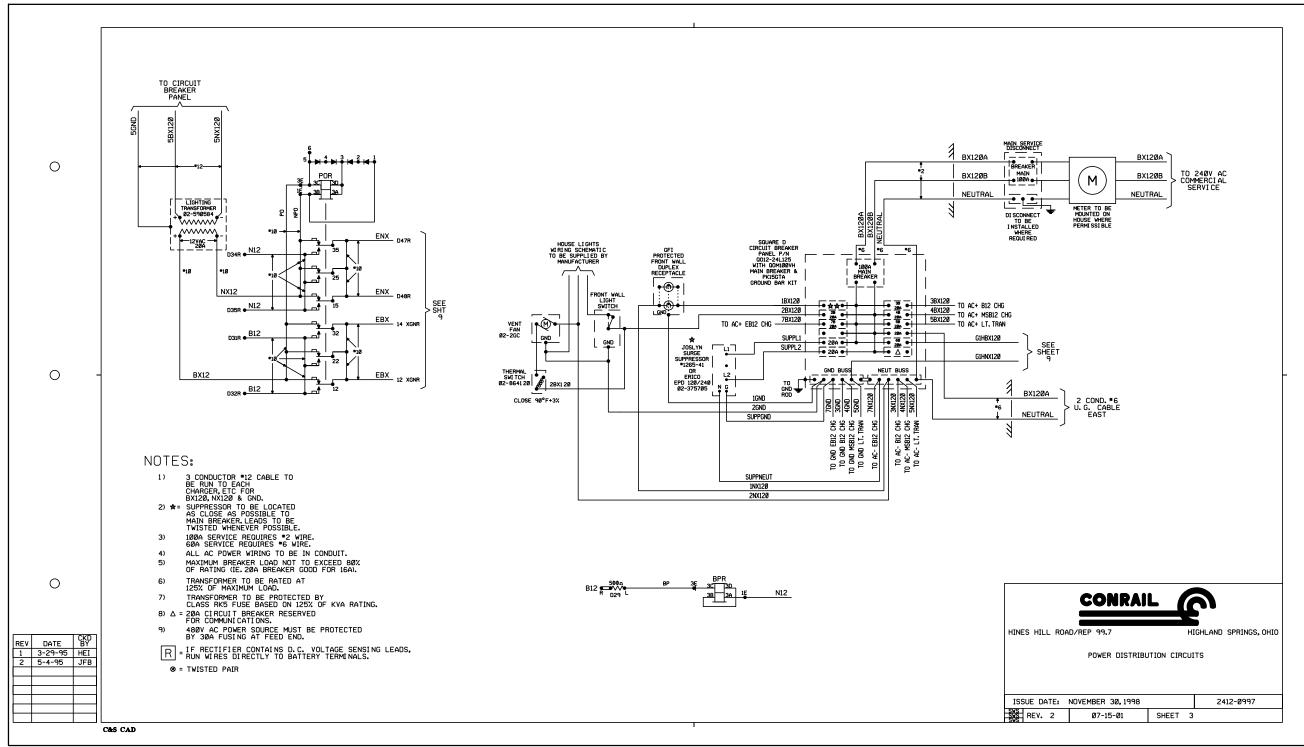
C&S CAD

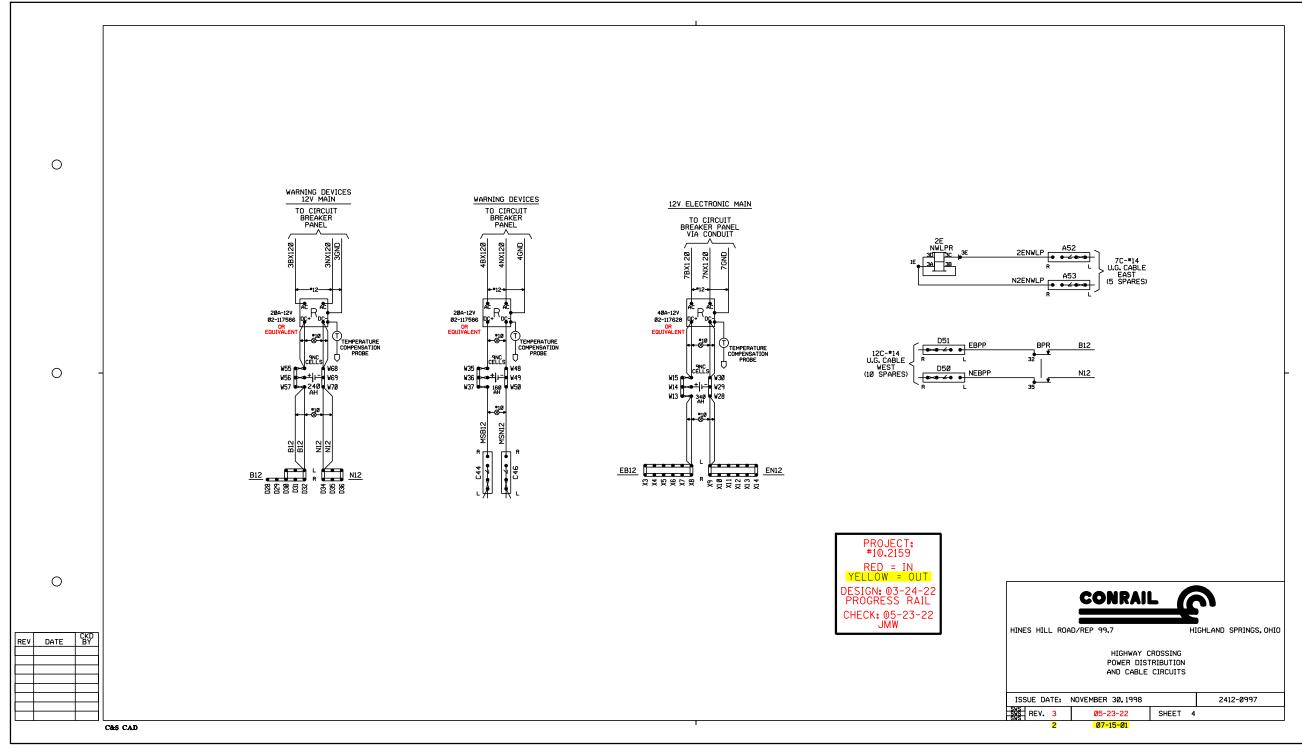
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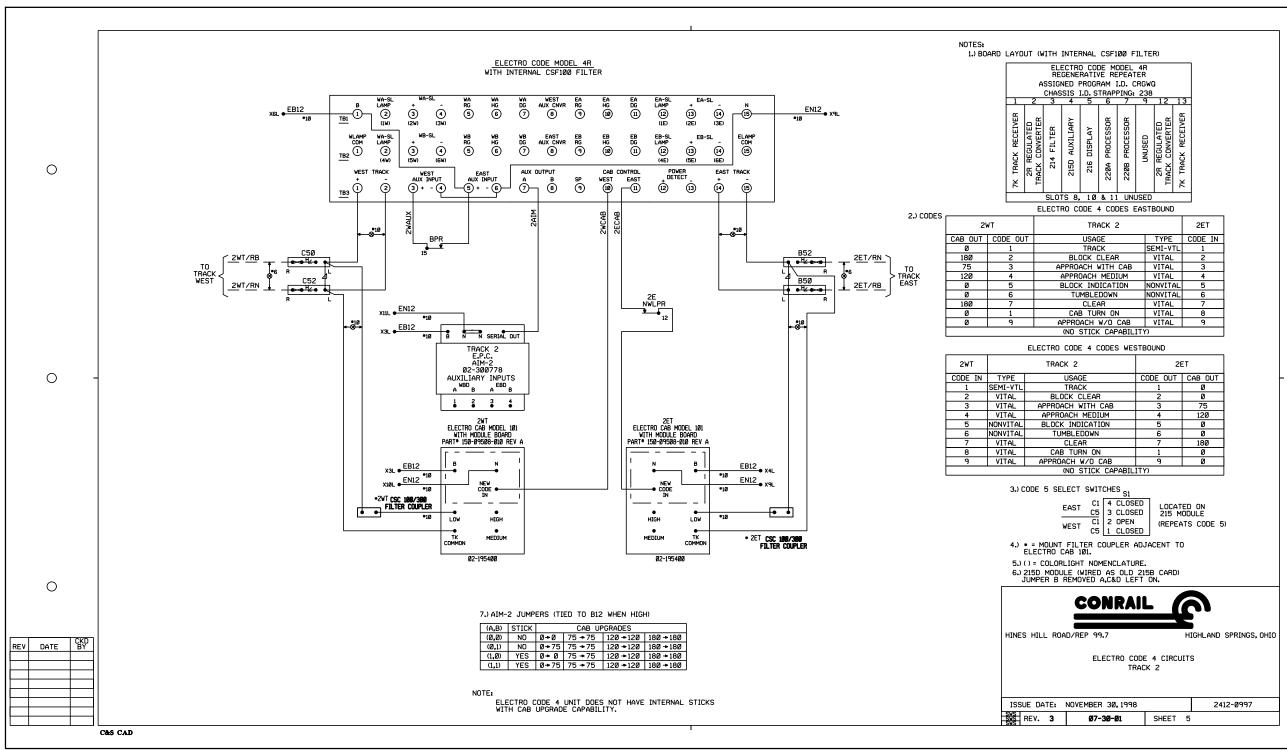


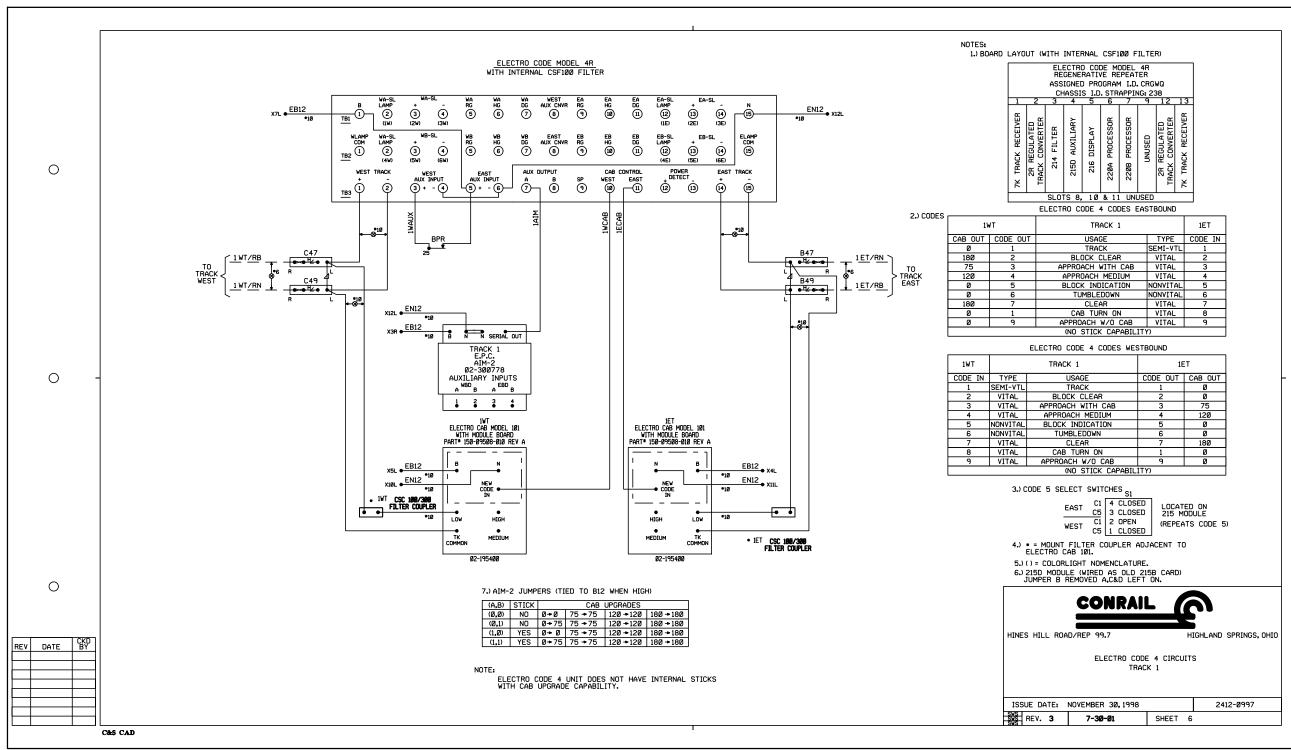


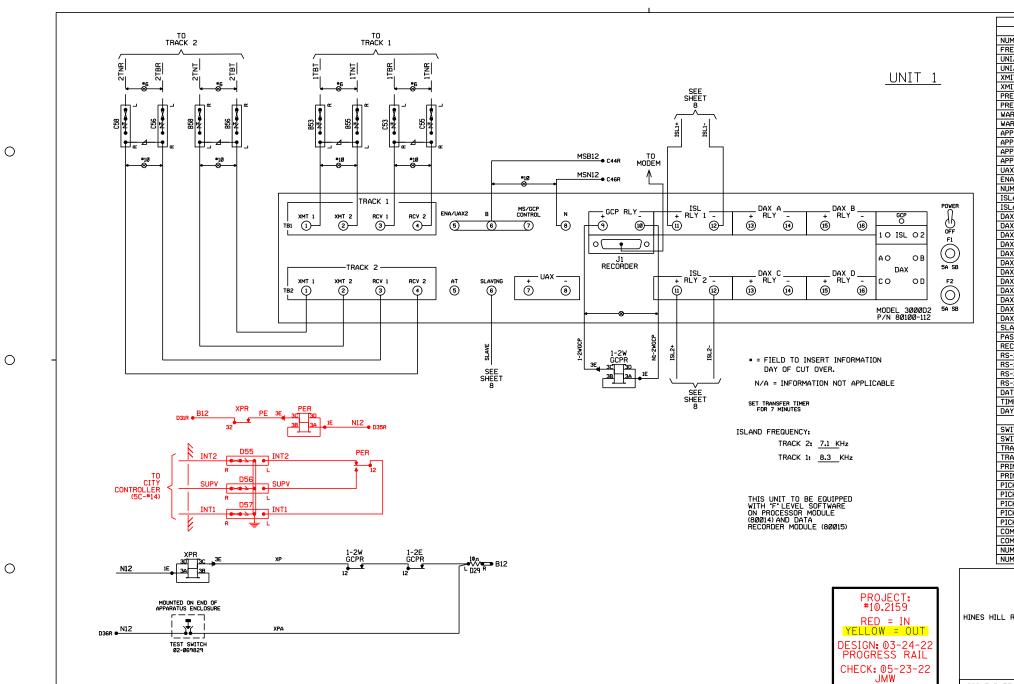












SYSTEM PROGRAMMING F	PARAMETERS
PROMPT	RESPONSE
NUMBER OF TRACKS	2 TRACK
FREQUENCY (MS/GCP)	211 Hz
UNI/BIDIRECTIONAL T1	BIDIRECTIONAL
UNI/BIDIRECTIONAL T2	BIDIRECTIONAL
XMIT LEVEL T1	MAX
XMIT LEVEL T2	MAX
PREDICTOR/MOTION SENSOR T1	PREDICTOR
PREDICTOR/MOTION SENSOR T2	PREDICTOR
WARNING TIME SELECTED T1	30 SEC.
WARNING TIME SELECTED T2	3Ø SEC.
APPROACH DIST. SELECTED T1	399Ø FT.
APPROACH DIST, SELECTED T2	399Ø FT.
APPROACH DIST, COMPUTED T1	N/A FT.
APPROACH DIST, COMPUTED T2	N/A FT.
UAX PICKUP DELAY(Ø=OFF)	Ø-SEC.
ENA/UAX2 PICKUP DELAY(Ø=ENA)	15-SEC.
NUMBER OF DAX'S	Ø
ISLAND DISTANCE T1	• FT.
ISLAND DISTANCE T2	• FT.
DAX A TRACK ASSIGNMENT	N/A
DAX A DISTANCE (Ø=PREEMPT)	N/A FT.
DAX A WARNING TIME	N/A SEC.
DAX B TRACK ASSIGNMENT	N/A
DAX B DISTANCE (Ø=PREEMPT)	N/A FT.
DAX B WARNING TIME	N/A SEC.
DAX C TRACK ASSIGNMENT	N/A
DAX C DISTANCE (Ø=PREEMPT)	N/A FT.
DAX C WARNING TIME	N/A SEC.
DAX D TRACK ASSIGNMENT	N/A
DAX D DISTANCE (Ø=PREEMPT)	N/A FT.
DAX D WARNING TIME	N/A SEC.
SLAVING MASTER/SLAVE	MASTER
PASSWORD ENABLED	DISABLED
RECORDER INSTALLED	INSTALLED
RS-232-C BAUD RATE	21101111222
RS-232-C DATA BITS RS-232-C STOP BITS	
RS-232-C PARITY	
DATE(E.G.,MON 16 NOV 1987)	•
TIME(E.G., 11:25:43 AM)	•
DAYLIGHT SAVINGS	ON/OFF
EXPANDED PROGRAMI	MING HISTORY
SWITCH TO MS T1	
SWITCH TO MS T2	
TRANSFER DELAY MS TO GCP TI	
TRANSFER DELAY MS TO GCP TO	
PRIME PREDICTION OFFSET TO	
PICKUP DELAY PRIME	15-SEC.
PICKUP DELAY DAX A	15-SEC.
PICKUP DELAY DAX B	15-SEC.
PICKUP DELAY DAX C	15-SEC.
PICKUP DELAY DAX D	15-SEC.
PICKUP DELAY DAX D COMPENSATION VALUE T1	15-SEC. SET BY SYSTEM
COMPENSATION VALUE T1	SET BY SYSTEM
COMPENSATION VALUE T1 COMPENSATION VALUE T2	SET BY SYSTEM SET BY SYSTEM
COMPENSATION VALUE T1	SET BY SYSTEM SET BY SYSTEM WIRES



HINES HILL ROAD/REP 99.7

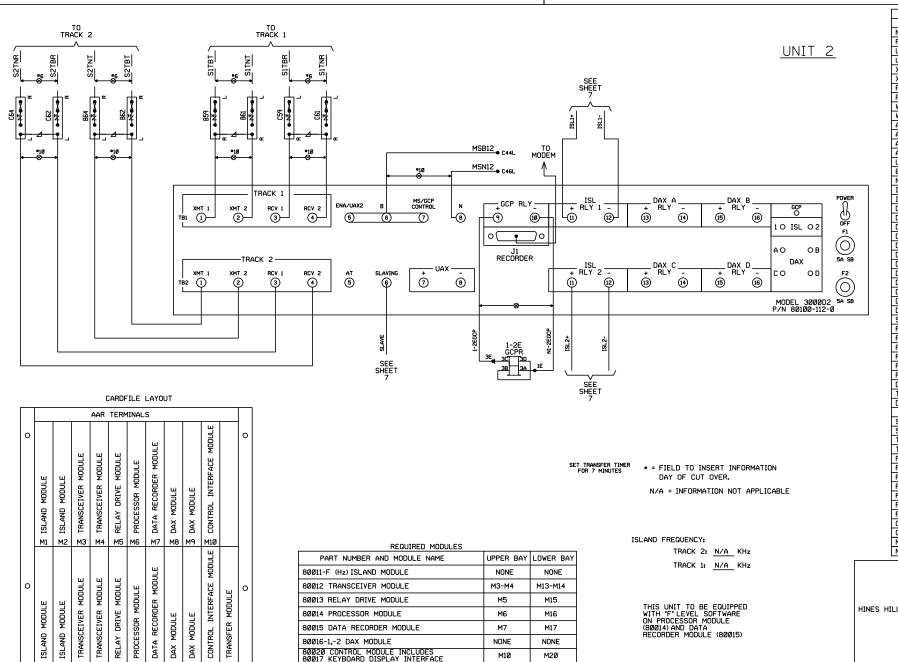
2

HIGHLAND SPRINGS, OHIO

UNIT 1 DUAL SEMI-BI-DIRECTIONAL GCP MODEL 3000D2 02-806766 TRACKS 1 & 2 WEST

ISSUE DATE: NOVEMBER 30,1998 2412-0997 SWS SWS REV. 3 Ø5-23-22 SHEET 7

07-15-01



M21

80028 TRANSFER MODULE

| M12 | M13 | M14 | M15 | M16 | M17 | M18 | M19 | M20 | M21

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SYSTEM PROGRAMMING PARAMETERS PROMPT RESPONSE NUMBER OF TRACKS 2 TRACK FREQUENCY (MS/GCP) 211 Hz BIDIRECTIONAL UNI/BIDIRECTIONAL UNI/BIDIRECTIONAL T2 BIDIRECTIONAL XMIT LEVEL MAX MΔX PREDICTOR/MOTION SENSOR T1 PREDICTOR PREDICTOR/MOTION SENSOR T2 PREDICTOR WARNING TIME SELECTED 3Ø SEC. WARNING TIME SELECTED T2 3Ø SEC. APPROACH DIST, SELECTED T1 399Ø FT. APPROACH DIST. SELECTED T2 399Ø FT. APPROACH DIST. COMPUTED T1 N/A FT. APPROACH DIST, COMPUTED T2 N/A FT. UAX PICKUP DELAY(Ø=OFF) 2Ø-SEC. ENA/UAX2 PICKUP DELAY(Ø=ENA) 2Ø-SEC. NUMBER OF DAX'S Ø FT. ISLAND DISTANCE Ø FT. ISLAND DISTANCE DAX A TRACK ASSIGNMENT N/A DAX A DISTANCE (Ø=PREEMPT) N/A FT. DAX A WARNING TIME N/A SEC. DAX B TRACK ASSIGNMENT N/A DAX B DISTANCE (Ø=PREEMPT) N/A FT. DAX B WARNING TIME N/A SEC. DAX C TRACK ASSIGNMENT N/A DAX C DISTANCE (Ø=PREEMPT) N/A FT. DAX C WARNING TIME N/A SEC. DAX D TRACK ASSIGNMENT N/A DAX D DISTANCE (Ø=PREEMPT) N/A FT. DAX D WARNING TIME N/A SEC. SLAVING MASTER/SLAVE SLAVE DISABLED PASSWORD ENABLED RECORDER INSTALLED INSTALLED RS-232-C BAUD RATE RS-232-C DATA BITS RS-232-C STOP BITS RS-232-C PARITY DATE(E.G.,MON 8 JUN 1957) TIME(E.G., 11:25:43 AM) ON/OFF DAYLIGHT SAVINGS EXPANDED PROGRAMMING HISTORY SWITCH TO MS 10-EZ SWITCH TO MS 1Ø-EZ Ø-SEC. TRANSFER DELAY MS TO GCP T1 TRANSFER DELAY MS TO GCP T2 Ø-SEC. PRIME PREDICTION OFFSET T1 Ø-FT. PRIME PREDICTION OFFSET Ø-FT. PICKUP DELAY PRIME 15-SEC. PICKUP DELAY DAX A 15-SEC. PICKUP DELAY DAX B 15-SEC. PICKUP DELAY DAX C 15-SEC. PICKUP DELAY DAX D 15-SEC. COMPENSATION VALUE SET BY SYSTEM T2 SET BY SYSTEM COMPENSATION VALUE NUMBER OF TRACK WIRES T1 4 WIRES NUMBER OF TRACK WIRES T2 4 WIRES



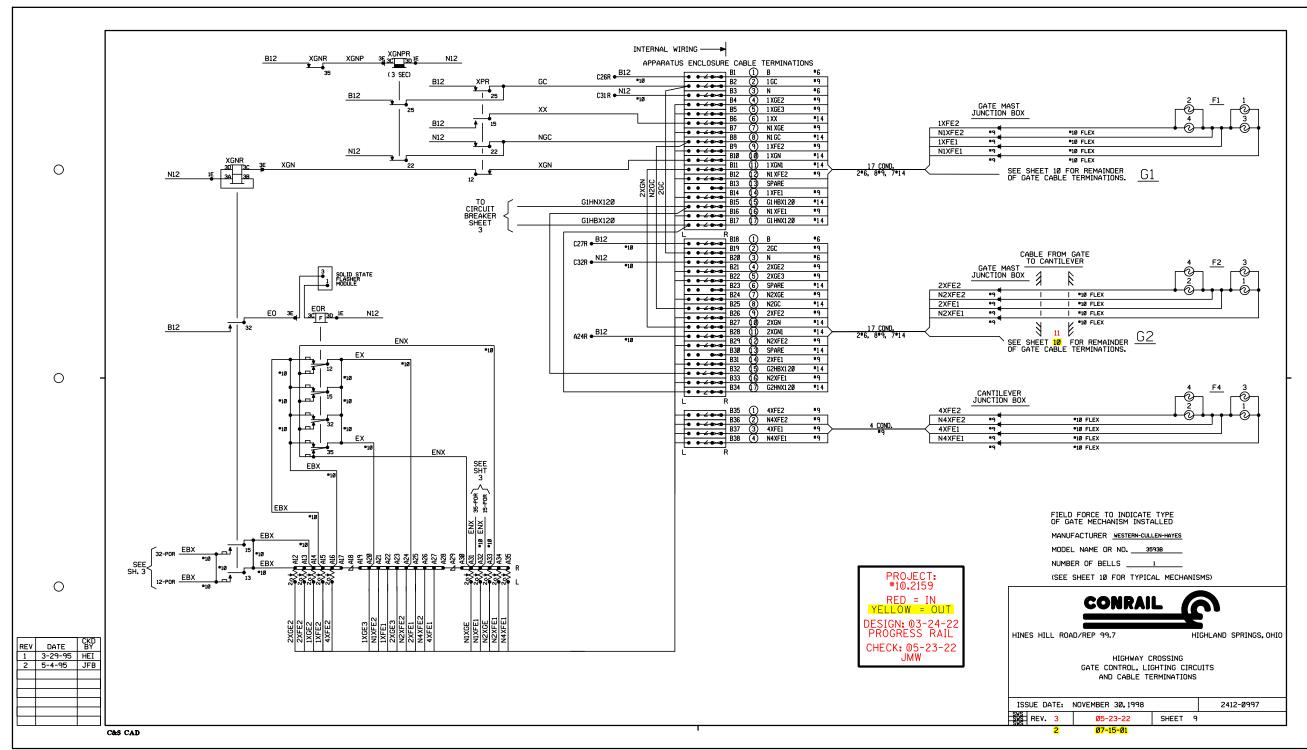
HINES HILL ROAD/REP 99.7

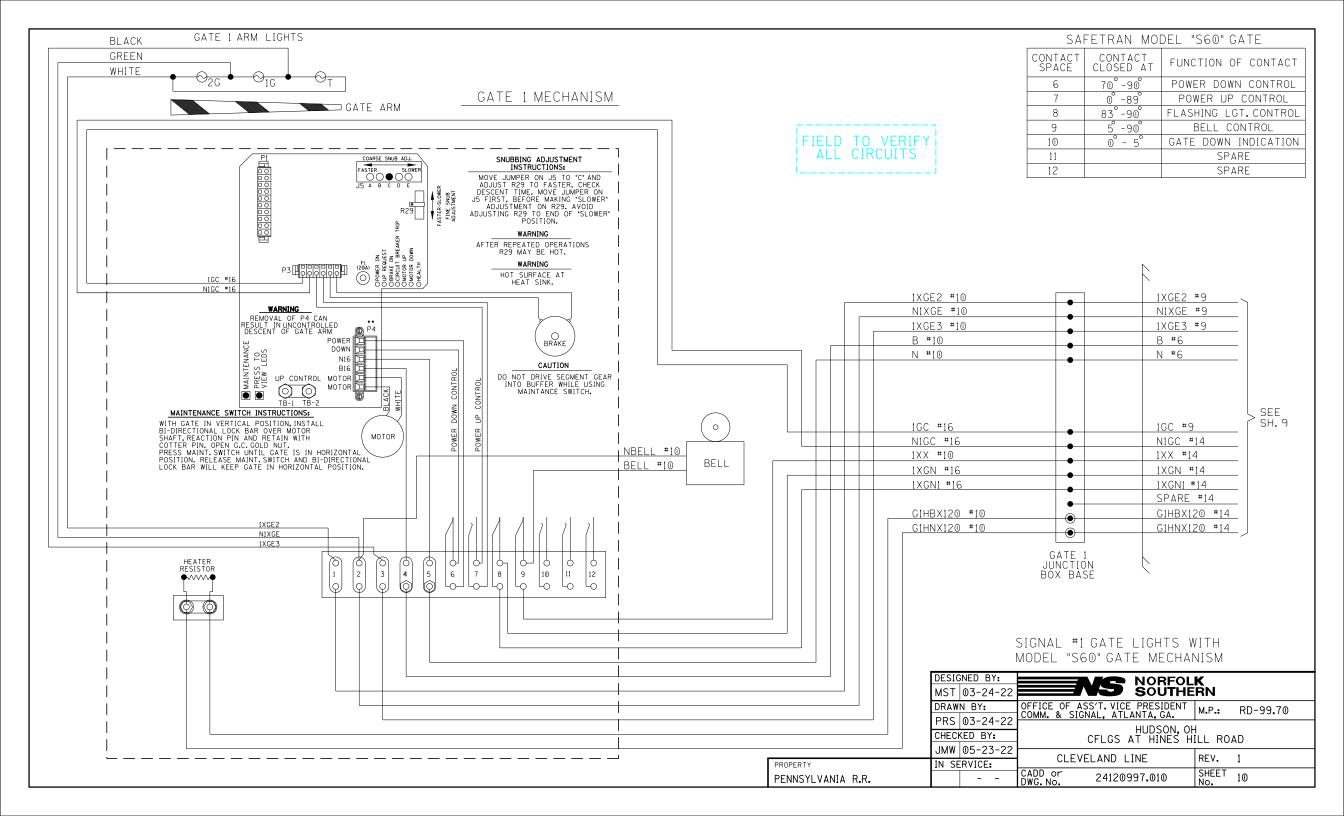
HIGHLAND SPRINGS, OHIO

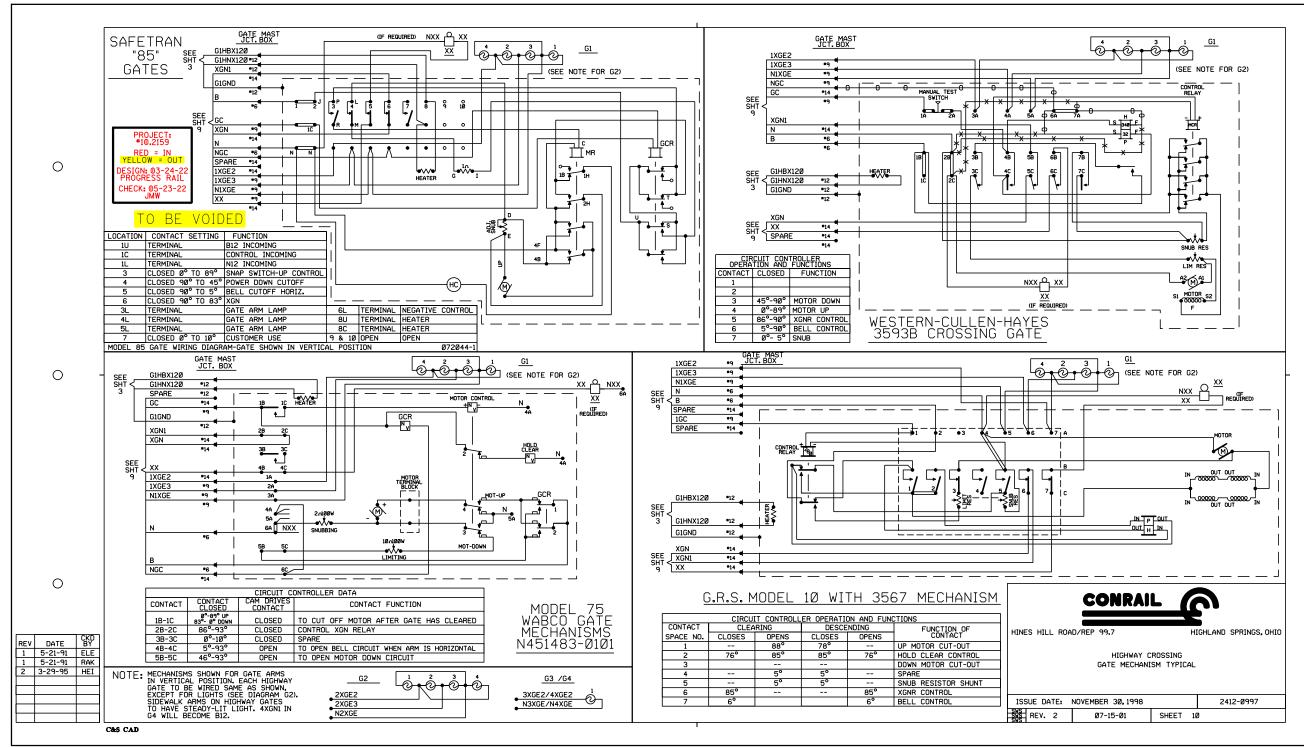
UNIT 2
DUAL SEMI-BI-DIRECTIONAL GCP
MODEL 3000D2 02-806782
TRACKS 1 & 2 EAST

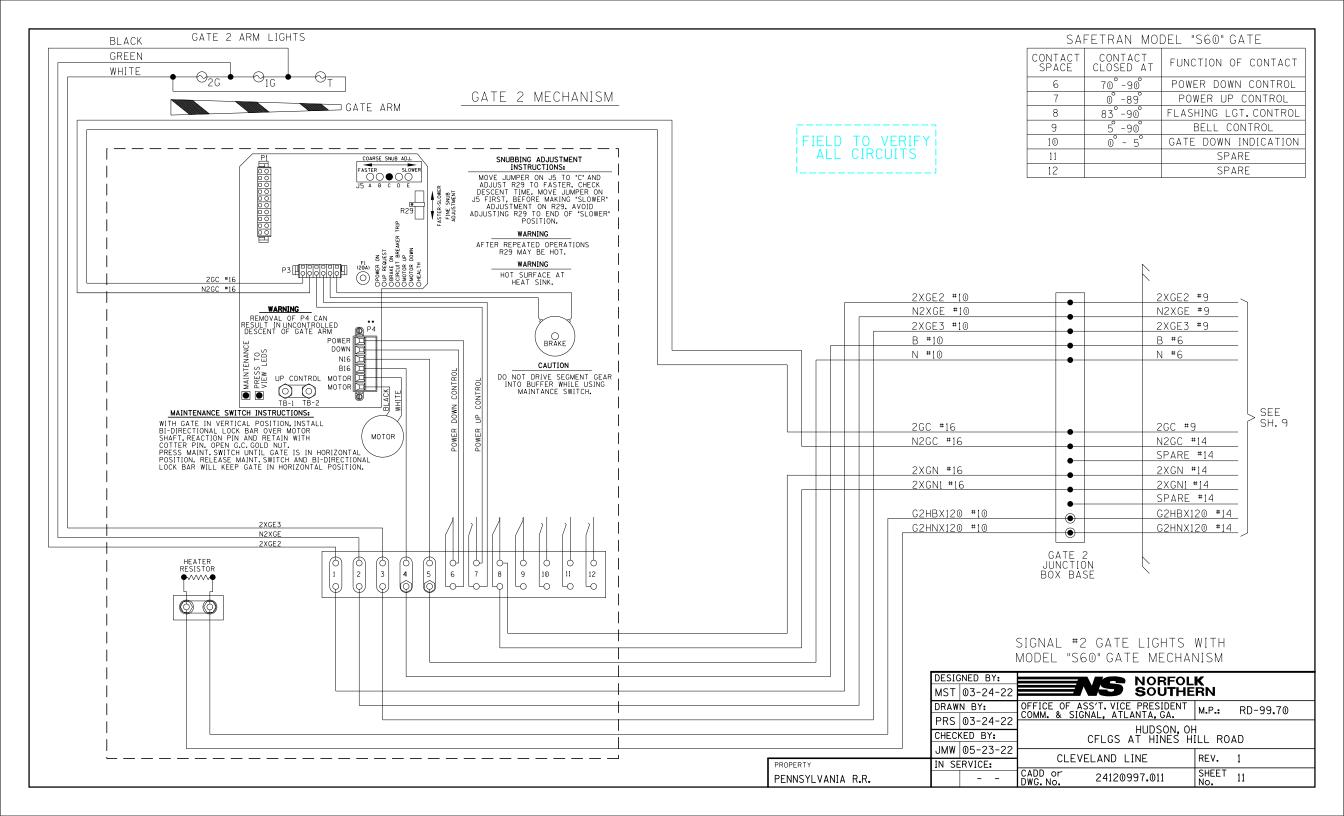
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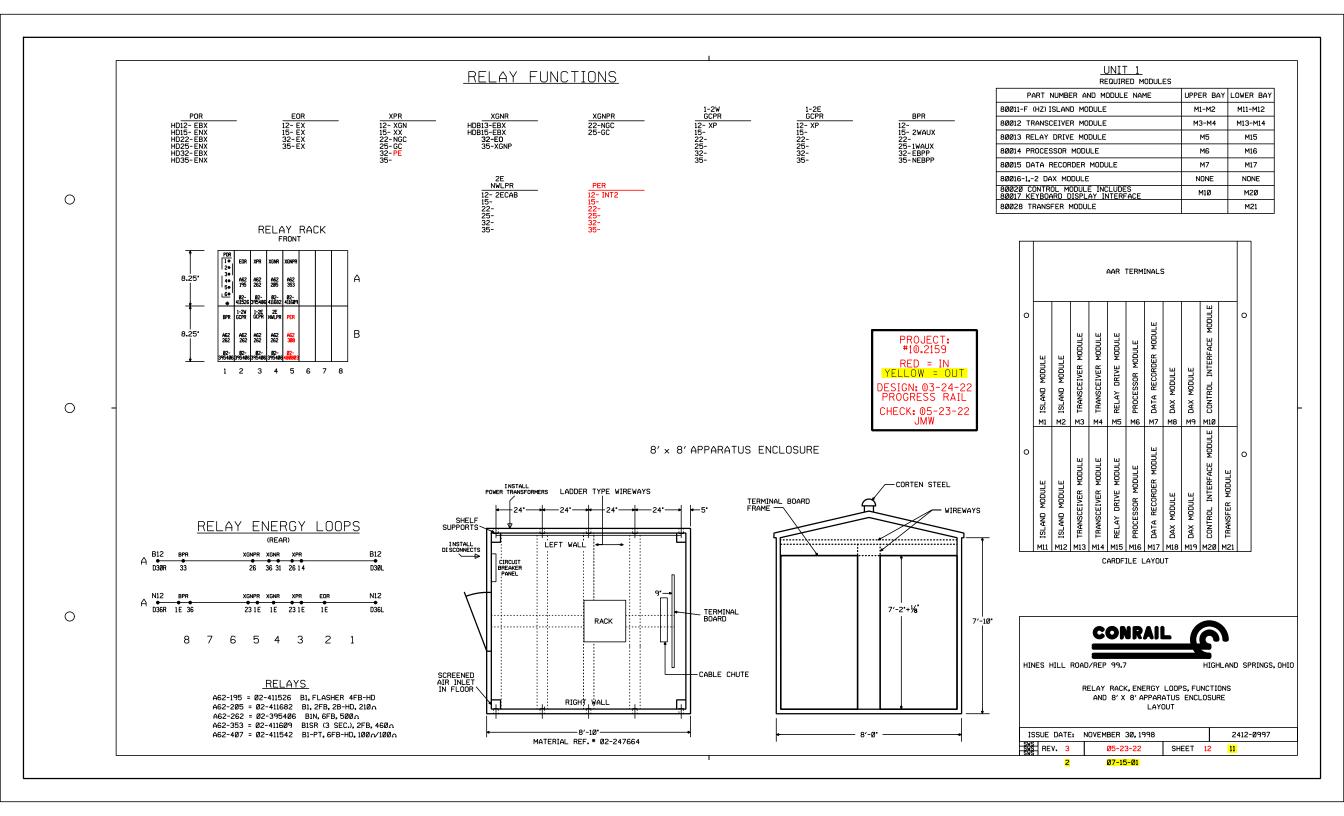
REV. 2 07-15-01 SHEET 8

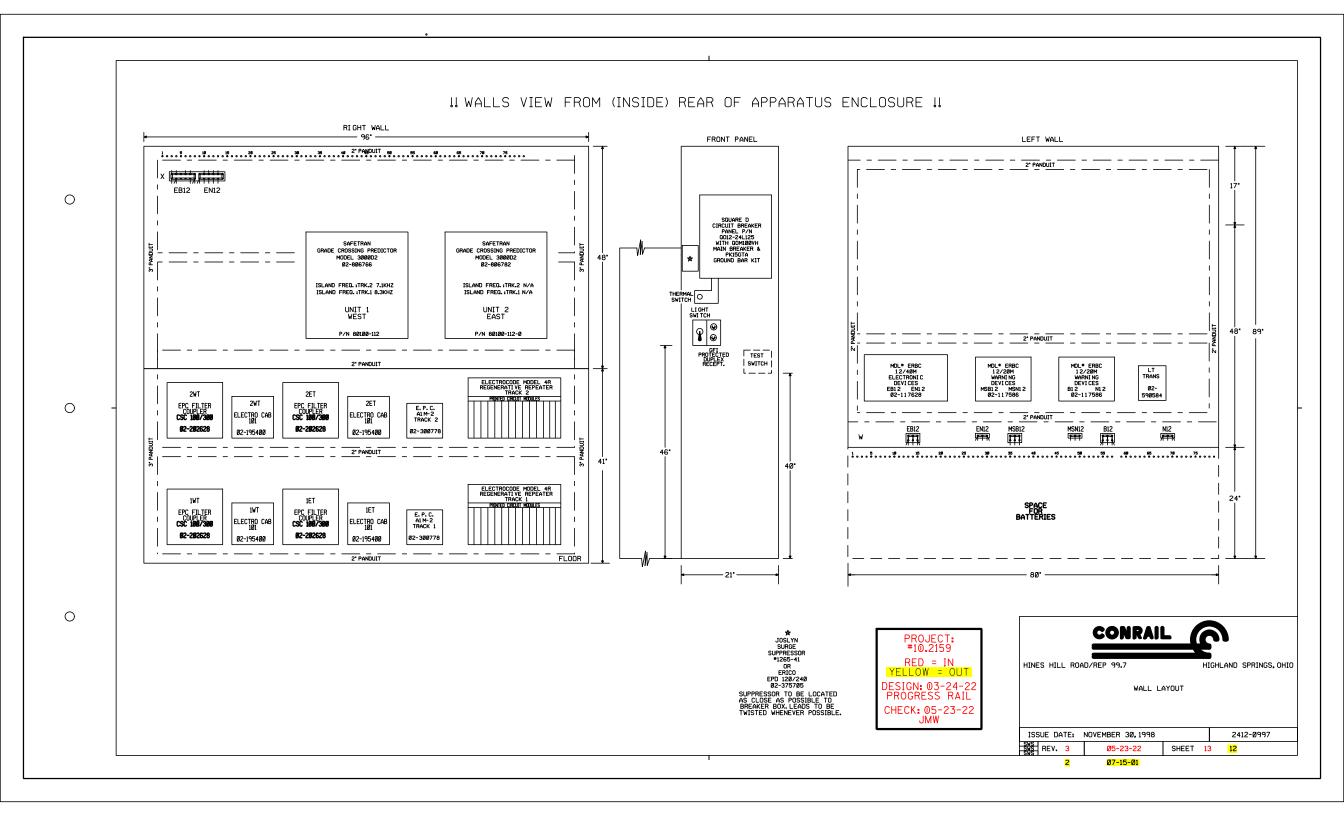


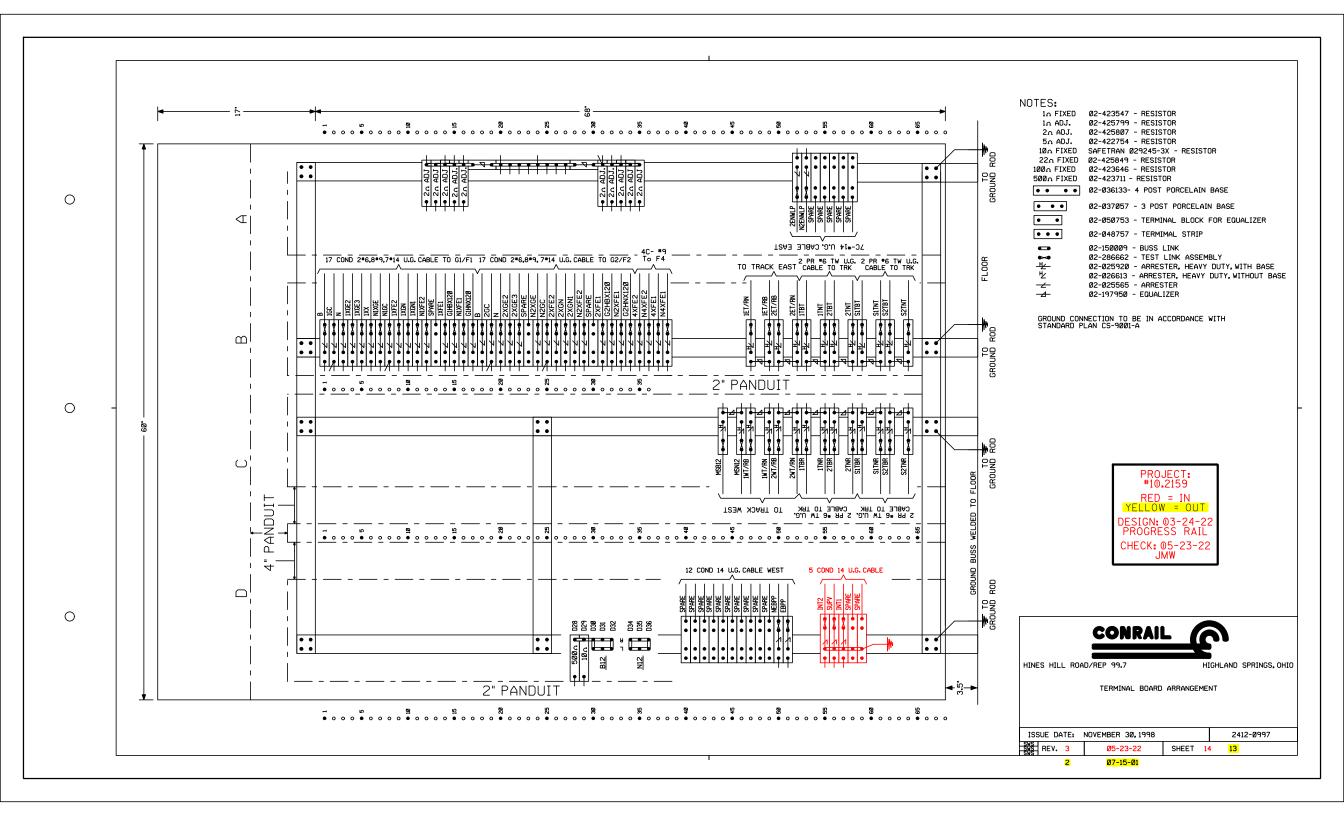














### **Detailed Estimate for Grade Crossing Warning Devices**

City/State: HUDSON, OH Road: HINES HILL RD

MilePost: RD-99.7 DOT/AAR: 503034K

State Proj. No.: PID 116116 County: SUMMIT

S&E Proj. No.: 10.2159 File Number:

Man Days: 24

\*\*\*Purchases - Others\*\*\*

Meals and Lodging: \$3,598.91
Rental of Equipment: \$4,919.69

(2 Trucks, 1 Backhoe w/ Trailer and 1 Pipe-Pusher for 4 Days)

Construction Supervision Vehicle: \$752.55

Purchases - Other Total: \$9,271.15

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

Material Cost: \$8,167.00

Sales and Use Tax: \$653.00

Material Handling Freight: \$816.75

Material Total: \$9,636.75

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

Labor Cost: \$8,472.00

(6 man crew at \$2,118.00 a day for: 4 days)

Payroll Tax & Overheads: \$7,223.23

Preliminary Engineering: \$1,747.14

Construction Supervision: \$2,474.67

Labor Total: \$19,917.04

Project Cost: \$38,824.94

Scrap / Salvage Credit: \$0.00

Project Total: \$38,825.00

Estimated on: 23-May-22 Estimated by: wgtg9

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:	HUDSON			
Road:	HINES HILL RD			
Mile Post:	RD-99.7			
Drawing Number:	24120997			
State ProjectNumber:	PID 116116			
County:	SUMMIT			
A A R Number:	503034K			
Project Number:	10.2159			
File Number:				
New File Number:	CX1114630			
WBS:	F-07904			
Store Number:				
Supervisor:	A.R. ETHERTON			
Tax Code:				
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: HUDSON ОН S&E Proj. No.: 10.2159 AFE No.: F-07904 Drawing No.: 24120997 P.O.Number:

Date Required:

Date Shipped:

			Price			Quantity	Date	ntity Insta	Date	Quantity Returned	Special
Qty.	Class-Item-CD	UI	per Item	Total Price	Item Description	Shipped	Quan.	Quan.	Quan.	(Credit)	Instructions
3	670-119241-4	EA	\$27.06	\$81.18	ARRESTOR, LIGHTNING HEAVY DUTY CLEAR VIEW SAFETRAN 022585-1X						
150	465-292945-4	LF	\$1.59	\$238.50	CABLE, UG 5-14, S-54 OKONITE 206-14-6885						
3	670-440826-4	EA	\$1.18	\$3.54	LINK, SAFETRAN 024620-1X INSL TESTING COMP 1 IN CENTER SIGNAL CIRCUITS CR 02-286662						
1	000-777777-4	EA	\$6,500.00	\$6,500.00	MISC. EXPENSE ENGINEERING						
1	610-719870-4	EA	\$167.75	\$167.75	PEDESTAL ASSEMBLY, ARMORCAST P/N P6001205-NS, YELLOW 10"X11"X29" POLYETHYLENE INCL 45" WITH TERMINAL BLOCK						
1	670-259211-4	EA	\$62.85	\$62.85	PLUG BOARD KIT, TYPE B-1 & VOLTAGE TEST TERMINAL, SAFETRAN 420000-75X						
1	670-707995-4	EA	\$557.26		RELAY, TYPE B1, NEV LINE, 900 OHMS,.008 AMPERES GRS A62-308 OR SAFETRAN @400003						
5	670-489810-4	EA	\$71.88	\$359.40	TERMINAL BLOCK, ERICO 4 POST P/N B2700A2C1WHAKIT WITH HARDWARE AND 1 EACH SAFETRAN P/N 022485-28X						
1	670-007238-4	EA	\$175.99	\$175.99	UNIT, THE INSTALLATION AND WIRING OF A DEVICE WHICH REQUIRE A MINIMUM OF FOUR WIRE CONNECT-						
100	465-458198-4	FT	\$0.21	\$21.00	WIRE, NO.16, 1 CONDUCTOR, CASE, FLEXIBLE, 19 STRAND, 2/64 IN. INSULATION						

Total Material: \$8,167.47

Vendor: Progress Rail Services

APPROVED BY STATE APPROVED BY RAILROAD CAR NUMBER SEAL NUMBER

Store No.:



Mike DeWine, Governor Jon Husted, Lt. Governor

Scott Corbitt. Chair

March 21, 2022

Mr. Kurt Young Norfolk Southern Administrator Grade Crossing Program 1200 Peachtree Street NE, Box 123 Atlanta, Ga. 30324

RE: Grade Crossing Warning Device Improvements Summit County, Hines Hill Rd, DOT# 503-034K, PID# 116116.

Dear Mr. Young:

A diagnostic review was held at the above grade crossing on August 17, 2021. As a result of the review, an interconnection cable and junction box shall be installed at the edge of Norfolk Southern Right of Way (SW quadrant) for the City of Hudson to access.

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 7), if any, made by the team regarding 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: John Williams, Director, Transportation Department, PUCO Jill Henry, Rail Division Chief, PUCO Heather Hamilton, ORDC ORDC (file)



Mike DeWine, Governor Jon Husted, Lt. Governor

Scott Corbitt, Chair

January 24, 2022

Kurt Young Norfolk Southern Corporation 650 West Peachtree Street, NW Box 41 Atlanta, GA 30308

Subject:

Grade Crossing Warning Device Improvements, PID 116116

Summit County, Hines Hill Road, DOT# 503034K

Dear Mr. Young:

A diagnostic review was conducted at the subject grade crossings on 8/17/2021. Based on the review, an interconnection cable will be provided per the recommendations of the diagnostic review team.

This project shall be completed in compliance with Agreement No. 17450, dated December 19, 2012, entered into by the State of Ohio and Norfolk Southern Railway Company (NS) and incorporated as if fully rewritten herein. This construction shall also meet the general terms and conditions under the Fixing America's Surface Transportation Act and subsequent amendments and the State of Ohio's Federally Funded Warning Device Program.

Preliminary engineering (PE) and construction costs shall be borne one hundred percent (100%) by ORDC. Reimbursable costs will be limited by the ORDC based on approved estimates and bid tabulations, if applicable. These limits will be quantified by the ORDC in its construction authorization to NS and may be amended by the ORDC based on revised estimates and bid tabulations.

This Letter Agreement and the approved plans constitute the scope of the project. NS shall notify ORDC in writing of any changes in the scope of work which are not in the approved plans and estimates and secure approval in writing of same before the work is performed.

PE will not be commenced by NS prior to ORDC issuing a PE authorization. PE will be submitted by NS to ORDC within ninety (90) days or other time specified by ORDC in the PE authorization. Construction will not be commenced by NS prior to ORDC issuing a construction authorization. Construction will be completed by NS within nine (9) months or other time specified in the time specified by ORDC in the construction authorization.



Improving Rail Today for Tomorrow's Economy

Please indicate your acceptance of the terms and conditions of this Letter Agreement by signing and returning one (1) copy to me at the address listed above and retain a copy for your files. This Agreement may be executed in one or more counterparts, each of which shall be deemed to be a duplicate original, but all of which taken together shall be deemed to constitute a single Agreement.

Sincerely,

Matthew Dietrich Executive Director

Norfolk Southern:

Ву: \_

Title: VP ATC

Date: 2/11/2022

SUM Hines Hill Rd NS PID 116116 DOT 503034K

## Hines Hill Road (DOT #503034K), City of Hudson, Summit County, Norfolk Southern 8/17/2021

Crossing at a g	lance:			
ORDC Notes:				
		Please	Sign In	
James Tuc	ker		(	ORDC
Name	Title		C	Prganization
	614-398-6897	james.tu	cker@dot.ohio.	gov
	Phone Number	Email		Signature
Shawn Zurfl	еу		PUCO	
Name	Title		Organization	1-1
	Phone Number	Email		Signature
Will Ersing			NS	
Name	Title		Organization	
	Phone Number	Email		Signature
Thomas She	eridan		Hudson	
Name	Title	TSherida	Organization an@hudson.oh.	us
	Phone Number	Email		Signature
Dave Griffith	1		Hudson	Jeog
Name	Title	dgriffith@hu	Organization udSon.oh.us	Sand Plan
	Phone Number	Email		Signature
Frank Come	eriato		Hudson	
Name	Title		Organization	1
			ixon.oh.us	
	Phone Number	Email		Signature
	ech		Itudson	
Name	Title		Organization	
	Phone Number	Email		Signature
Name	Title		Organization	
	Phone Number	Email		Signature

## Reason for Request: **constituent** (e.g. formula, accident, constituent, etc.)

Date: 8/17/2021

Location Data					
Street or Road Name: Hines Hill Road					
County:	Summit	Township:		US DOT No.:	503034K
City (in or near):	Hudson	Railroad Name:	NS	RR Milepost:	
Safety Data (O	btain crash report	s, if possible)			
		Initial Informat	ion (from database)		Revised
Number & dates of v previous 5 years:	vehicle crashes in		n/a		
Number & dates of crashes in previous			n/a		
Hazard Ranking:	364	Date Run:	08/05/2021	•	

Existing Traffic Control Devices	14 33		
Type of Warning Devices	Insta	lled?	Quantity/Comments
HIGHWAY			
Advance Warning Signs (condition?)		□No	2-WB Blocked by Veg.
'Stop' Signs	☐ Yes	⊠ No	
'Stop Ahead' Signs	☐ Yes	⊠ No	
Pavement Markings (condition?)	Ç¥Yes	□No	2 - Good
Dynamic Envelope Markings (condition?)	☐ Yes	⊠No	
Illumination	✓ Yes	□ No	
'No Turn' Signs (highway/passive)	☐ Yes	⊠ No	
Barriers/fencing (pedestrian/bicycle)	☐ Yes	⊠ No	
LOOK Sign	☐ Yes	⊠ No	
Do Not Stop On Track Sign	☐ Yes	⊠ No	
RAILROAD			
Crossbucks		□ No	3- fair
Crossbucks – assembly with Stop	☐ Yes	<b>⋈</b> No	
Crossbucks – assembly with Yield	☐ Yes	⊠ No	
Mast-Mounted Flashing Lights	🔀 Yes	□ No	4 - Pair
Cantilever Flashing Lights	Yes	□No	Number: 2 - PengLength:
Side Lights	☐ Yes	⊠ No	12" - 8" Incombescer
LED or Incandescent Lights? Size?		□No	12" + 8" Incandescent
Automatic Gates	▼ Yes	□No	Number: 2 Length:
Bells		□No	Number: [
Sidewalk/Pedestrian Gate Arms	☐ Yes	⊠ No	Number: Length:
'No Turn' Signs (railroad/active)	☐ Yes	⊠ No	
Is crossing flagged by train crew?	☐ Yes	⊠-No	
OTHER	☐ Yes	□ No	

Railroad Data					
Type of Train: ☑ Freight ☐ Intercity Passenger ☐ Transit ☐ Shared Use Transit ☐ Commuter ☐ Tourist/Other					
Railroad Characteristics	Initial Information (from database)	Revised			
Total trains per day	62				
<1 per day? Trains per week					
Day thru trains	30				
Night thru trains	30				
Switching	2				
Total number of tracks	2				
Number of main tracks	acks 2				
Number of other tracks					
Maximum train speed	50				
Typical train speed	50				
Amtrak					
Are there other track(s) crossing this same roadway within 100ft of this crossing?					
If yes, Crossing DOT# (if different)					
If yes, distance (take measurement between track centerlines at closest point along roadway)					
If multiple tracks, can two trains occupy crossing at the same time? 🗡 Yes 🗆 No					
Can one train block the motorists' view of another train at the crossing? K Yes (explain below)					
Can one or more tracks be eliminated through the crossings?   Yes  No					
Comments:					
Circuitry:  Constant Warning Time   Motion Detection   AFO   PTC   Other   Other					

unknown circultary as the railroad was not present

Roadway Data					
Local Highway Authority: City of Hudson					
Roadway Characteristics	Initial Information (from database)		Revised		
Average Daily Traffic	2,380 (	(2010)	3710 (2019)		
Highway Paved			☐ Yes ☐ No		
Roadway Surface: 🗹 Blacktop 🗆 Gravel 🗆	Concrete Other				
Roadway width (paved/travelled way):	<b>24</b> ft				
Number of Highway Lanes	2	2			
Urban or Rural	Ru	ral			
Vehicle Speed: 35 MPH					
School Bus Operation:   Yes  No	Amount ?	- LHA to prov	side update		
Location of nearby schools: Western Re					
	No Amount (fror	m FRA)2%	LHA verified/changed?		
Shoulders: □XYes □ No					
Is the Shoulder Surfaced?	If yes, shoulder width	ı: <u> </u>			
Is there existing guardrail along the roadway in crossing vicinity?   Yes					
Crossing Angle					
Quadrant NE Curb & Gutter: Quadrant Sw Curb & Gutter:					
☐ Functional (Curb height = 4" or more)		☐ Functional (Curb h	eight = 4" or more)		
□ Non-functional (Curb height = less than 4"	)	□ Non-functional (Co	urb height = less than 4")		
None		™None			
Is there a nearby intersection that could cause	e queuing over the cross	sing? 🗆 Yes 🔀	No		
If yes, distance					
Is this intersection signalized? ☐ Yes ☐ No					
Are there signals currently interconnected with the existing crossing warning devices?					
Is there a 'Do Not Stop on Track' sign?   Yes   No					
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?					
If yes:	J25/140				
Improvement type	Lead Agency	Ti	meline/completion		

Pedestrian & Bicycle Data	17-18T			
Regular pedestrian usage: ☐ Yes				
Is sidewalk present in the approach? ☐ Yes				
Does crossing surface accommodate pedestrians?   Yes  No				
Both sides of roadway?				
Pedestrian generators in close proximity (e.g. schools, sports/entertainment venues)?				
Comments: Maple Grove Park				
Regular bicycle usage: No				
☐ Roadway ☐ Dedicated Lane (on street) ☐ Dedicated Path (off street) ☐ Shared Use (pedestrian/bicycle) Path ☐ Bikes must use sidewalk				
Future plans for pedestrian or bicycle routes? 🗵 Yes 🗆 No				
Comments: yeterans trail phase 1 = scheduled 2024				
Utility Information  Is commercial power available?   ✓ Yes □ No				
Utility Provider (Company Name) C. Ly of Hudson Public Power				
Nearest Available Power Source @ Crossins				
What other utilities are present? ☒ Gas ☐ Cable ☒ Telephone ☐ Fiber Optic Cable (add locations to sketch) ☐ Petroleum ☒ Water ☒ Sanitary Sewer ☐ Other				
Comments:				
Surface				
Surface review form completed? ☐ Yes    No				
The second contract of the complete of the second contract of the se				
Sight Preview (REFER TO TABLES)				
If non-gated crossing, is clearing sight distance adequate in all quadrants? (See Table 1)				
Is stopping sight distance adequate? (See Table 2) AYes    No If no, which quadrant?	80			
When considering recommendations for bicycle treatments:				
Bicycle sight distance adequate? 🛘 Yes 🗆 No If no, which quadrant?	80			
When considering recommendations for pedestrian treatments:				
Pedestrian sight distance adequate? The No If no, which quadrant? 8	90			

Potential Red Flags Project Challenges
Traffic Signal Preemption (include traffic signal intersection name and LHA with jurisdiction over traffic signal, if known):
NA
Crossing Consolidation or Closure:
NIA
Real Estate or ROW:
NIA
Culvert / Drainage / Ballast Conditions:
NA
Roadway and/or Sidewalks:
NA
Circuitry (e.g. reaches out to other crossings, specific needs, etc.):
unknown = RR was not present
Environmental:
City performed a westland survey recently
Utilities:
unknown
Other:

Potential Closure	
s it the consensus of the Diagnostic Review Team that this	is a potential closure project? NO
xplain reasons: Very Busy Road with direc	T Access to SR-8
Diagnostic Team Recommendations	
No improvements needed	Quadrants Needed
Install/upgrade active devices	
☐ Automatic Flashing Lights (AFLS)	
☐ AFLS /Cants	
☐ AFLS / Gates	
☐ AFLS / Gates / Cants	
☐ Bells / number	
☐ Upgrade circuitry / type	
□ Sidelights	
☐ LED Upgrades	
☐ Guardrail Needed	
☐ Install/Replace curb	
☐ Bungalow placement & offset from rail & highway	
✓ Other (define)	
Comments: The CITY request that NS 5	supply a Junction Box with dry contacts for
them to connect to for their pi	Anned Blank out signs @ prospect And
walters streets.	
☐ Install/upgrade traffic signal preemption	
Other (define): The city would like	(NW Quad) NS suggest using radar circuitry
the existing Bungalow	instead of RR interconnect
Diagnostic Team Recommendations (cont	
PEDESTRIAN/BICYCLE Treatments (additional, n	ot included above)
□Crossing Surface (specify)	☐Sidewalk (specify)
□ Detectable warning surfaces	□LOOK Sign (R15-8)
□Stop lines	□Illumination
□ Dynamic envelop markings	□ Channelization /
☐Path delineation	☐ Fencing/barriers
Other	
Comments:	THE STATE OF THE S

Field Sketch (optional)	
Include utilities as marked by OUPS and LHA; include ROW boundaries as indicated by railroa	id and LHA.

### **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 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.

**Bicycle & Pedestrian Clearing Sight Distances** 

	Clearing Sight Distance from Stop Position*											
Crossing of one track						Crossing 2 Tracks		Crossing 3 Tracks				
Train Speed	Car	Single-unit Truck	Bus	WB-50 Semitruck	65-foot Double Truck	Pedestrian <sup>1</sup>	Bicyclist <sup>2</sup>	Pedestrian <sup>1</sup>	Bicyclist <sup>2</sup>	Pedestrian <sup>1</sup>	Bicyclist <sup>2</sup>	
10	105	185	200	225	240	120	100	180	120	240	140	
20	205	365	400	450	485	240	200	360	240	480	270	
25	255	455	500	560	605	300	250	450	290	590	340	
30	310	550	600	675	725	360	290	530	350	710	410	
40	410	730	795	895	965	480	390	710	420	950	540	
(50°)	515	910	995	1,120	1,205	590	490	(890)	(589)	1180	670	
60	615	1,095	1,195	1,345	1,445	710	580	1060	700	1420	810	
70	715	1,275	1,395	1,570	1,680	830	680	1240	810	1650	940	
80	820	1,460	1,590	1,790	1,925	950	780	1420	930	1890	1080	
90	920	1,640	1,790	2,015	2,165	1060	870	1590	1040	2120	1210	

<sup>\*</sup>A single track, 90-degree, level crossing

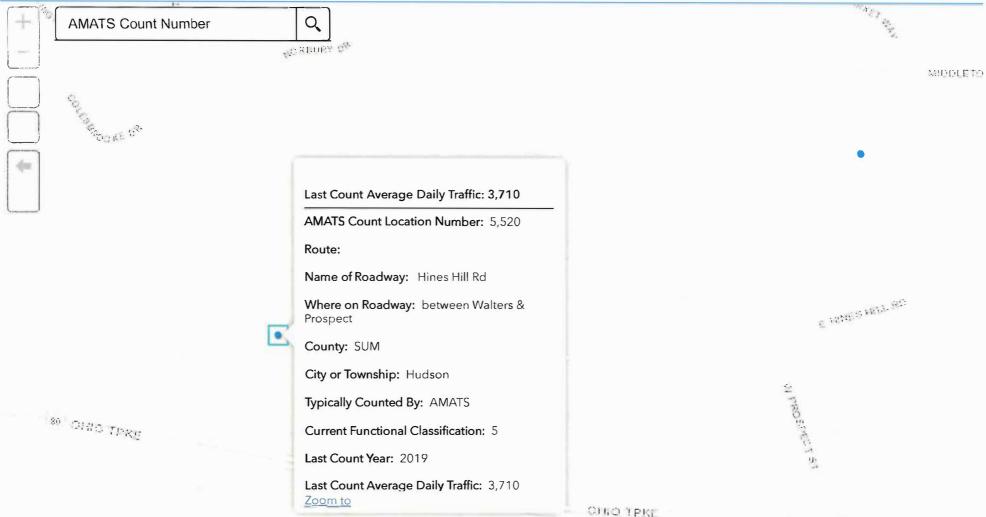
<sup>&</sup>lt;sup>1</sup> Walking 3.5 feet per second across tracks 15 feet apart, with a 2-second reaction time to reach a decision point 10 feet before the center of the first track, and clearing 10 feet beyond the centerline of the second track.

<sup>&</sup>lt;sup>2</sup> Bicycling 8 miles per hour across tracks 15 feet apart, from a stopped position 10 feet before the center of the first track with an acceleration of 2.5 feet per second, and clearing 10 feet beyond the centerline of the second track on a bike of 6 feet length.



### **AMATS Average Daily Traffic**

Akron Metropolitan Area Transportation Study



0.2mi



Hudson, OH





Disclaimer: Map and parcel data are believed to be accurate, but accuracy is not guaranteed. This is not a legal document and should not be substituted for a title search, appraisal, survey, or for zoning verification.

Map Scale
1 inch = 63 feet
8/17/2021

# This foregoing document was electronically filed with the Public Utilities Commission of Ohio Docketing Information System on

6/15/2022 10:14:20 AM

in

Case No(s). 22-0595-RR-FED

Summary: Application In the Matter of a Request for the Upgrade of the Active Warning Devices at the Norfolk Southern Railway Crossing, Hines Hill Road, DOT#503-034K, Summit County, Ohio electronically filed by Mr. Thomas Persinger on behalf of PUCO/Rail Division