Public Utilities Commission of Ohio

Memo

To: Docketing Division

From: Jill Henry, Rail Specialist, Rail Division

Cc: PUCO Legal Department

Date: 9/8/17

Re: PUCO Case No. 17-1665-RR-FED- In the Matter of a Request for the Installation of Active Warning Devices at the Northern Ohio & Western Railway, CR 11 DOT#509-212P, in Seneca County, Ohio.

On May 22, 2017, the Ohio Rail Development Commission (ORDC) authorized funding for Northern Ohio & Western Railway to install active warning devices and perform surface reconstruction at CR 11 DOT#509-212P, in Seneca County, Ohio. The crossing was surveyed on April 27, 2016 and found to warrant the upgrades. The electric utility provider for this crossing is American Electric Power- AEP.

The project will be paid for with federal funds and is actual cost. The plans and estimates in the amount of \$203,847.84 for the lights and gates and \$62,971.00 for the surface reconstruction have been approved. Construction may commence at once. **Staff requests a Finding & Order with completion of the project in nine 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:

Northern Ohio & Western Railway Mr. John Lane Roadmaster 4200 E. 71st Street Cleveland, Ohio 44105

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

Seneca County Engineer Mark Zimmerman County Engineer 3300 South Township Road 151 Tiffin, Ohio 44883

American Electric Power- AEP

OHIO RAIL DEVELOPMENT COMMISSION INTER-OFFICE COMMUNICATION

TO: Randall Schumacher, Supervisor, Rail Division, PUCO

FROM: Cathy Stout, Manager, Safety Section, ORDC

BY: Don Damron, Project Manager, ORDC

SUBJECT: Seneca County, CR 11 / NOWR

DOT# 509212P PID# 103458

DATE: July 5, 2017

The Public Utilities Commission of Ohio (PUCO) established a Diagnostic Review Team Survey at the subject highway/railroad crossing location on 4-27-2016. The Ohio Rail Development Commission (ORDC) attended the Diagnostic Survey. The Diagnostic Review Team recommended the improvement of warning devices to flashing lights and roadway gates. Copies of the Diagnostic Review Team Survey form and the railroad plan and estimate are attached.

The PE has already been provided by the railroad. ORDC accepted the site plans and estimates as provided. Please issue a construction-only order for the project outlined above. 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.

Attachments:

Diagnostic Review Team Survey dated 4/27/2016 Price Estimate for Proposed Railroad Signal Project dated 7/13/2016 Proposed Crossing Track Plan dated 4/28/2017

cc: Jill Henry, PUCO

ORDC Project Manager (file)

OHIO RAIL DEVELOPMENT COMMISSION



Mail Stop #3140, 1980 West Broad Street, Columbus OH 43223 John R. Kasich, Governor • James G. Bradley, Chairman

July 7, 2017

Northern Ohio & Western Railway Mr. John Lane Roadmaster 4200 E. 71st Street Cleveland, Ohio 44105

Re: Grade Crossing Warning Device Improvement

Construction Authorization

Seneca County, CR 11, DOT# 509212P, PID# 103458

Dear Mr. Lane:

The plan and estimate dated 7/13/16, for the referenced project is acceptable. 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 Northern Ohio & Western Railway, L.L.C. (NOW) may proceed with the construction of the proposed grade crossing warning system in accordance with the abbreviated plan.

This authorization is made with the stipulation and understanding that the approved estimate may contain entries for items or activities that may be cited and found to be ineligible for federal participation during the project audit. Reimbursement of eligible actual cost for the warning device improvement is limited to \$203,847.84. 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 crossing upgrade includes the replacement of the existing timber/asphalt roadway surface; however, this construction authorization does include the reconstruction of the surface. The NOW should advance a request for quote (RFQ) for the replacement of the surface and submit acceptable bids to ORDC for review.

This construction authorization is contingent upon NOW accepting the following instructions:

1. The NOW's project construction foreman will furnish written notification five (5) working days prior to the date work will start at the project site to Don Damron, ORDC, Mail Stop #3140, 1980 West Broad Street, 2nd Floor, Columbus Ohio 43223, or email don.damron@dot.ohio.gov, or by cell phone at 614-917-8466, office phone at 614-466-2509); and to the Public Utilities Commission of Ohio at jill.henry@puco.ohio.gov (phone 614-752-9107). The project construction 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.



www.rail.ohio.gov phone: 614.644.0306

IMPROVING RAIL TODAY FOR TOMORROW'S ECONOMY

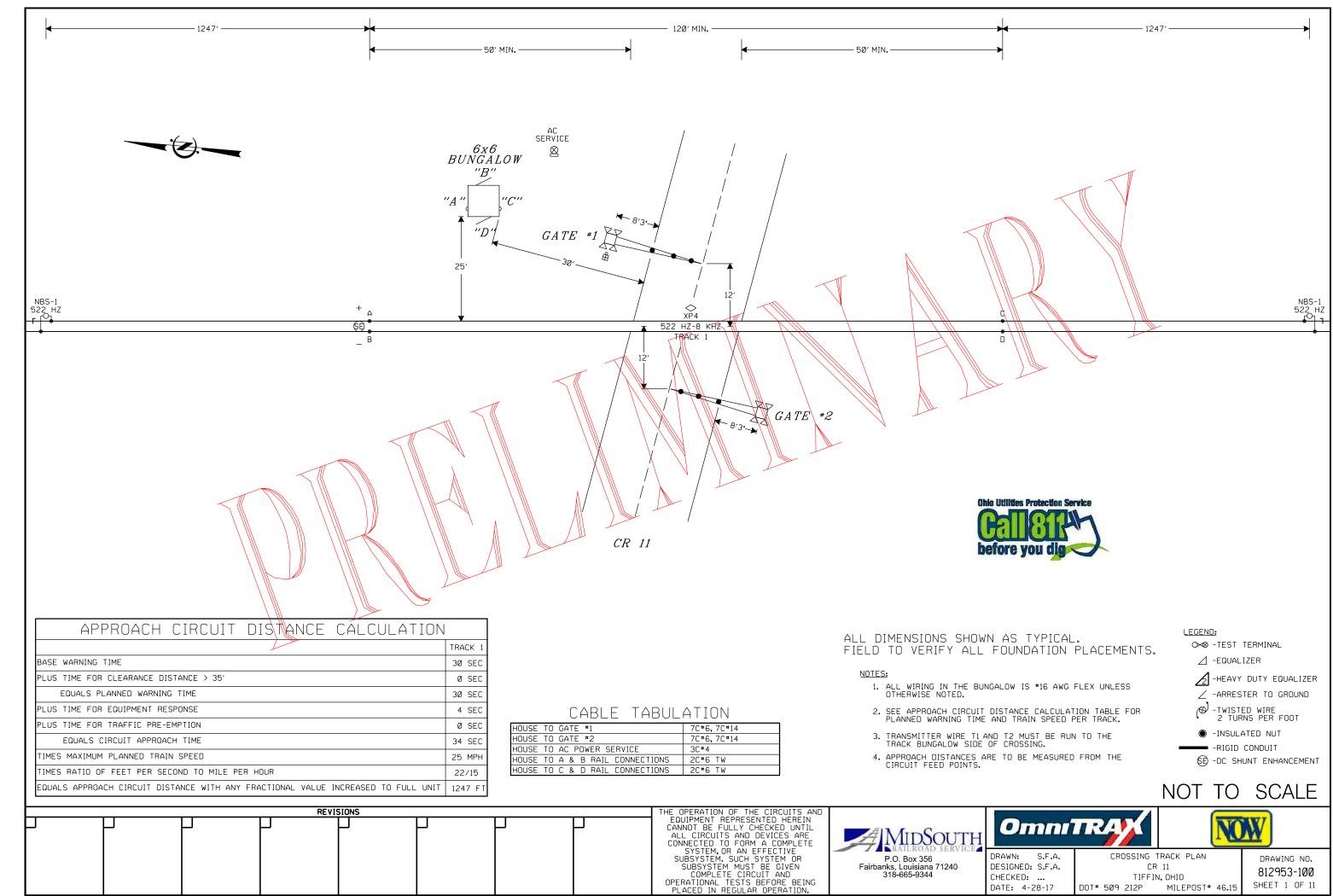
- 2. The NOW will arrange for utilities to be located at the project site by the Ohio Utilities Protection Service (OUPS) prior to any construction activities at the site. Utilities that are not participating members of the service must be contacted directly by Northern Ohio & Western Railway.
- 3. The NOW's project foremen will notify Don Damron at 614-917-8466 (cell) or don.damron@dot.state.oh.us (email) of any changes in the scope of work, cost overruns, material changes, etc. which are not included in the approved plan and estimate and secure approval of same before the work is performed.
- 4. The proposed track plan for the crossing places the gate tips at 12' from track center. The plan should be modified so that the gate tips are placed at 15' from the track center.
- 5. Open cut of roadways is not permitted except in unusual circumstances and must be coordinated with the local highway authority and preapproved by ORDC.
- 6. The NOW will furnish two (2) copies of each partial bill to ORDC. Please find the enclosed ODOT Purchase Order to reference when billing.
- 7. The NOW 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.
- 8. The installation of the new warning device system will include any ancillary work needed to make the warning devices function as designed and to satisfy MUTCD requirements.

Thank you for your assistance with these matters.

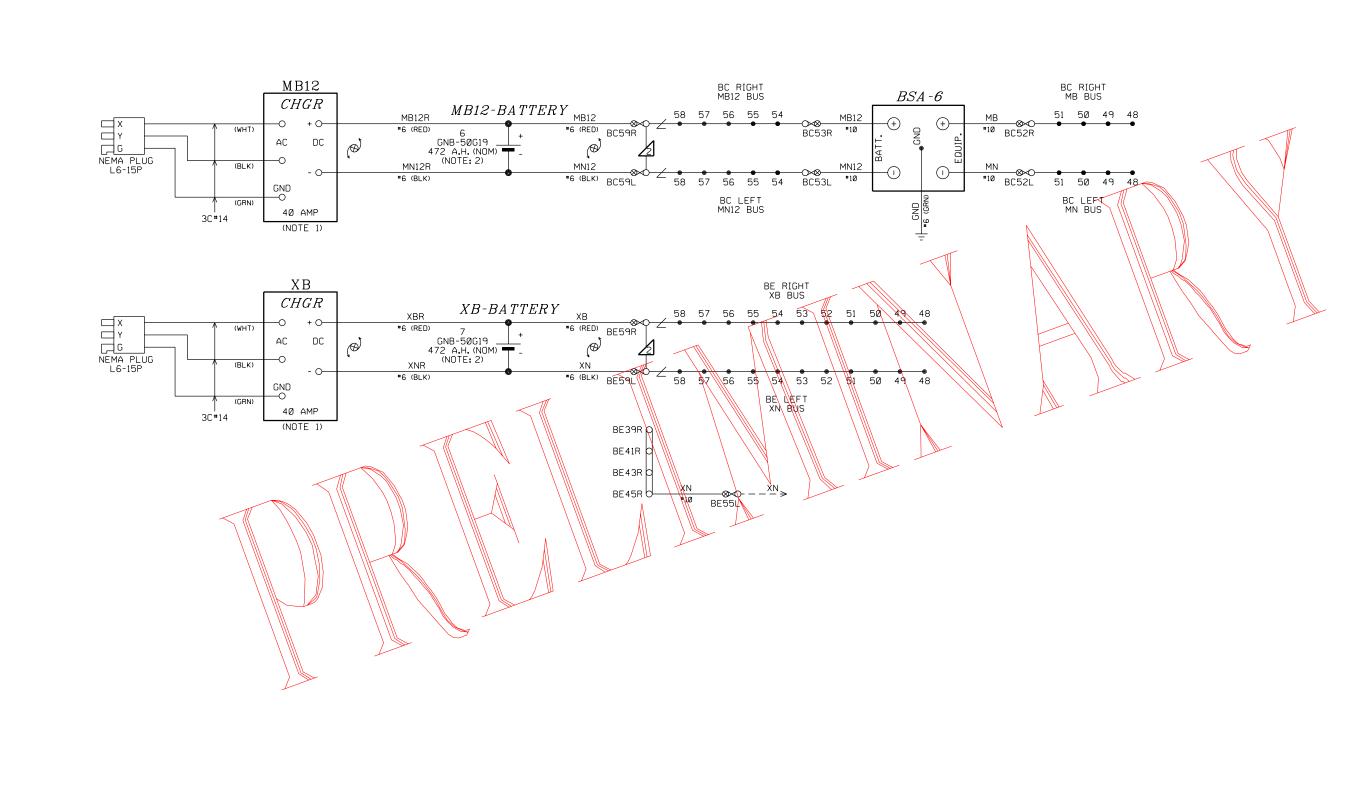
Sincerely, Conald Kanner

Donald J. Damron Project Manager

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



SHEET 1 OF 11



- 1. USE 240 VOLT SETTING.
- 2. USE 1/4" TERMINALS AT BATTERY CONNECTIONS.

	REVIS	SIONS			THE OPERATION OF THE CIRCUITS AND
			J	J	EQUIPMENT REPRESENTED HEREIN CANNOT BE FULLY CHECKED UNTIL ALL CIRCUITS AND DEVICES ARE CONNECTED TO FORM A COMPLETE SYSTEM, OR AN EFFECTIVE SUBSYSTEM, SUCH SYSTEM OR SUBSYSTEM MUST BE GIVEN COMPLETE CIRCUIT AND
					OPERATIONAL TESTS BEFORE BEING PLACED IN REGULAR OPERATION

RE TE ING





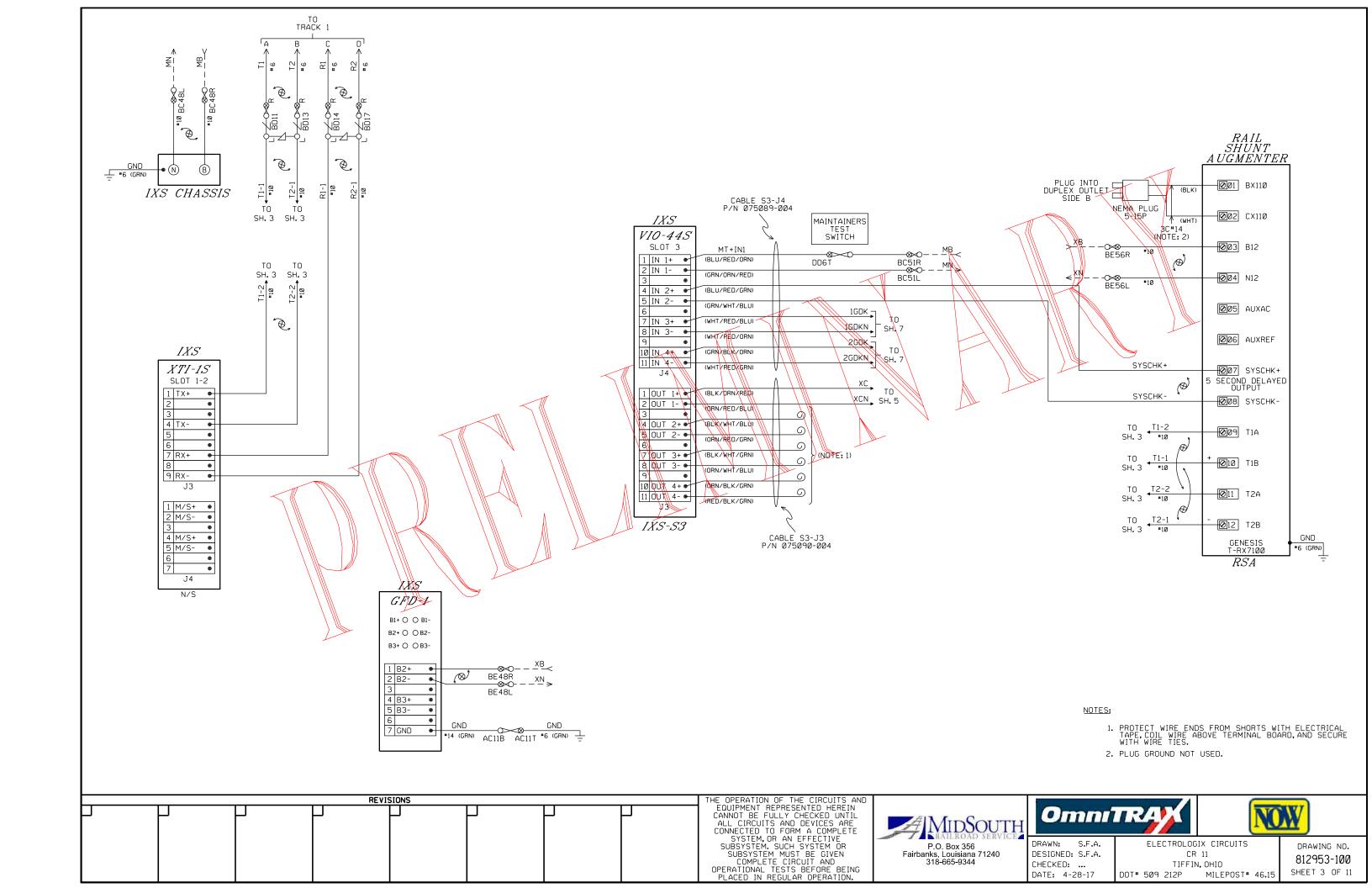
CHECKED: ...

DATE: 4-28-17



BATTERY CIRCUITS CR 11 TIFFIN, OHIO DOT# 509 212P MILEPOST# 46.15

DRAWING NO. 812953-100 SHEET 2 OF 11



GROUND FAULT DETECTOR SETUP

	CAL VOLTS	GF THRESHOLD	GF TIME	LOW ALARM	HIGH ALARM
B1: MB12	* 13.5 (TYP)	10 K	5 SEC.	* 10.5	* 15.5
B2: XB	* 15.7 (TYP)	10 K	5 SEC.	* 14.0	* 16.5
B3: BATTERY 3	NA	NA	NA	NA	NA

VIO-44S VITAI. INPIITS

VIO-44S VITAL OUTPUTS

VIO-445 VIIAL	INFUIS
MODULE SLOT	3
INPUT 1	S3_IN1_AUX1
INPUT 2	S3_IN2_AUX2
INPUT 3	S3_IN3_1GDK
INPUT 4	S3_IN4_2GDK

MODULE SLOT	3
OUTPUT 1	S3_OUT1_XC
OUTPUT 2	NOT USED
OUTPUT 3	NOT USED
OUTPUT 4	NOT USED

IXC-20S+ INPUTS

MODULE SLOT INPUT 1 INPUT 2 INPUT 3

INPUT 4

4	
S4_IN1_GPX	
S4_IN2_POK	
S4 IN3 XC	

NOT USED

IXC-20S+ OUTPUTS

]	4	MODULE SLOT
]	S4_G1_CNTRL	GATE 1
1	S4_G2_CNTRL	GATE 2
]	S4_BELL_OUT	BELL
] -	S4_NVO_BM	NV OUT

IXC SETUP

		111	11 111
	ADJUSTMENT NAME		IK¢ ///
	CROSSING TEST MODE		0 F F\ \\\
	FLASH RATE	1/ 1/	/ 55 FPM ///
A	INTERPACE		XIP \
	VOLTAGE RECULATION	/ /	//// ON /
]	L1 VOLTAGE	\	\\\11V
/ ///	L2 VOLTA <mark>ÇE</mark>	\	/ //XV
/ ///	GATE 1 DELAY	\	3 \$\fc
	GATE 2 DELAY		3 SEC

VITAL CONFIGURATION SWITCHES

١[NAME \	STATE	FUNCTION	DEFAULT
	GD/BELL OFF	TRUE BEL	DUTPUT OFF WHEN S3_IN3_10DK & S3_IN4_26DK GOES	FALSE
CD/BELL OH		FALSE BEL	NUTPUT FOLLOWING S4_INI_CPXK OR S4_IN3_XC PER BELLON STATE.	FALSE
	XR BELL ON	TRUE BEL	L OUTPUT ON WHEN ST. IN3 XC IS FALSE.	FALSE
	VII TOWER TOW	FALSE BELL	L OUTPUT ON WHEN S4_IN1_GPXK OR S4_IN3_XC FALSE.	HLDE

XP4 PROGRAM SETUP

* = FIELD ADJUSTMENT TO BE MADE ACCORDING TO THE XP4 INSTRUCTION MANUAL.

ISLAND SETUP

	ADJUSTMENT NAME	TRACK 1
	ENABLE/DISABLE	ENABLE
	DISABLE TIMEOUT	2 HR 🖈
	FREQUENCY	8.0 KHZ
	LOSS OF SHUNT	2 SEC
_	√ FAULT DELAY	1

BASIC TRACK SETUP

SHUNT TEST MODE DISABLE ALL TRACKS

CROSSING MAINTENANCE

TRACK 1

ENABLE

2 HRS

***** 147

ADJUSTMENT NAME

ENABLE/DISABLE

DISABLE TIMEOUT

BALLAST COMP

PHASE COMP

ADJUSTMENT NAME	TRACK 1
FREQUENCY	522 HZ
MASTER/SLAVE	MASTER
RX ADJUST	100
TCA/TCI	* \
DIRECTION MODE	BI
LIA	*
ADVANCED APR. CAL	INACTIVE
NBS COMP RX	\ <i>\</i> \\\ *
TRK ISLAND ASSIGN	\$L1_ASSIGN
APPROACH LENGTH	1247 FT
AUTO RX	ENABLE
\	

ADVANCE TRACK SETUP

	ADWSTMENT NAME		TRACK 1
	MOTION DET TIMER	MDEN	ENABLE
	MO TOW DELL TIMER	MDTT	10 MIN
		FSEN	DISABLE
FALSE SHUNT		FSRX	0
	\ \\\	FST	1ØM
	/ ///	AREN	DISABLE
	APPROACH RELEASE	ARRX	Ø
	\ \\\	ART	1ØM
	LQS\\TIME		16 SEC
1	IJ-L <mark>DS//</mark> IME	_	5 SEC
	NRM_SHRT_VRYS	NRML *	
\	"	•	•

MDR SETUP

	MDR 1	
ADJUSTMENT NAM	MDR1	
WARNING TI	30 SEC	
CW/MD	CW	
CWE-WT		80 SEC
AUX RECOVERY	DELAY	Ø SEC
TRACK ASSIG	SNED	SLT 1 TRK 1
OFFSET DIST	ANCE	Ø FT
MD RESTAF	* 99	
SUDDEN SHUNT	ZONE	* 99
	CJ MODE	STANDARD
CLEAR JOINT LOS	CJRX	15
	CJT	CALC
	PJEN	DISABLE
POST JOINT DETECT	PJRX	15
	PJDT	15
	PSEN	DISABLE
POSITIVE START	PSRX	0
	PST	O MIN

(SHOP TO VERIFY) EXECUTIVE INFORMATION

VPM3	VERSION	PART NUMBER
VPM-A PROCESSOR	8.22	083026-822
VPM-B PROCESSOR	8.22	083026-822
VPM-C PROCESSOR	8.22	083026-822

(SHOP TO VERIFY) APPLICATION SOFTWARE INFORMATION

NAME	GW_1TK_TYP
REVISION	9-22-2016
CHECKSUM	8A44
CRC	927F
CHASSIS ID	97
ID STRAPING	XIIXXXXI

REVISIONS

THE OPERATION OF THE CIRCUITS AND EQUIPMENT REPRESENTED HEREIN CANNOT BE FULLY CHECKED UNTIL ALL CIRCUITS AND DEVICES ARE CONNECTED TO FORM A COMPLETE SYSTEM, OR AN EFFECTIVE SUBSYSTEM, SUCH SYSTEM OR SUBSYSTEM WUST BE GIVEN COMPLETE CIRCUIT AND OPERATIONAL TESTS BEFORE BEING PLACED IN REGULAR OPERATION.

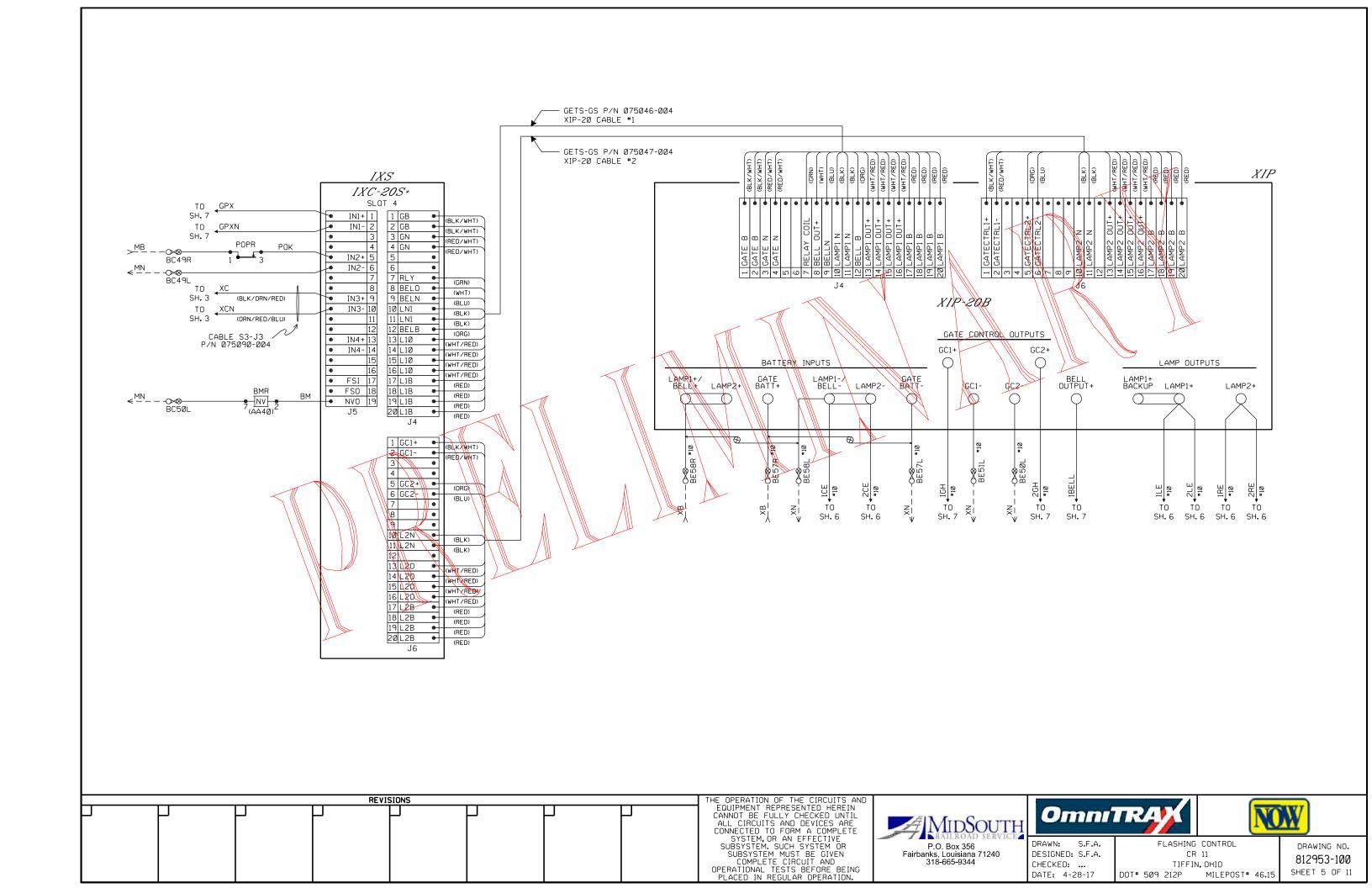


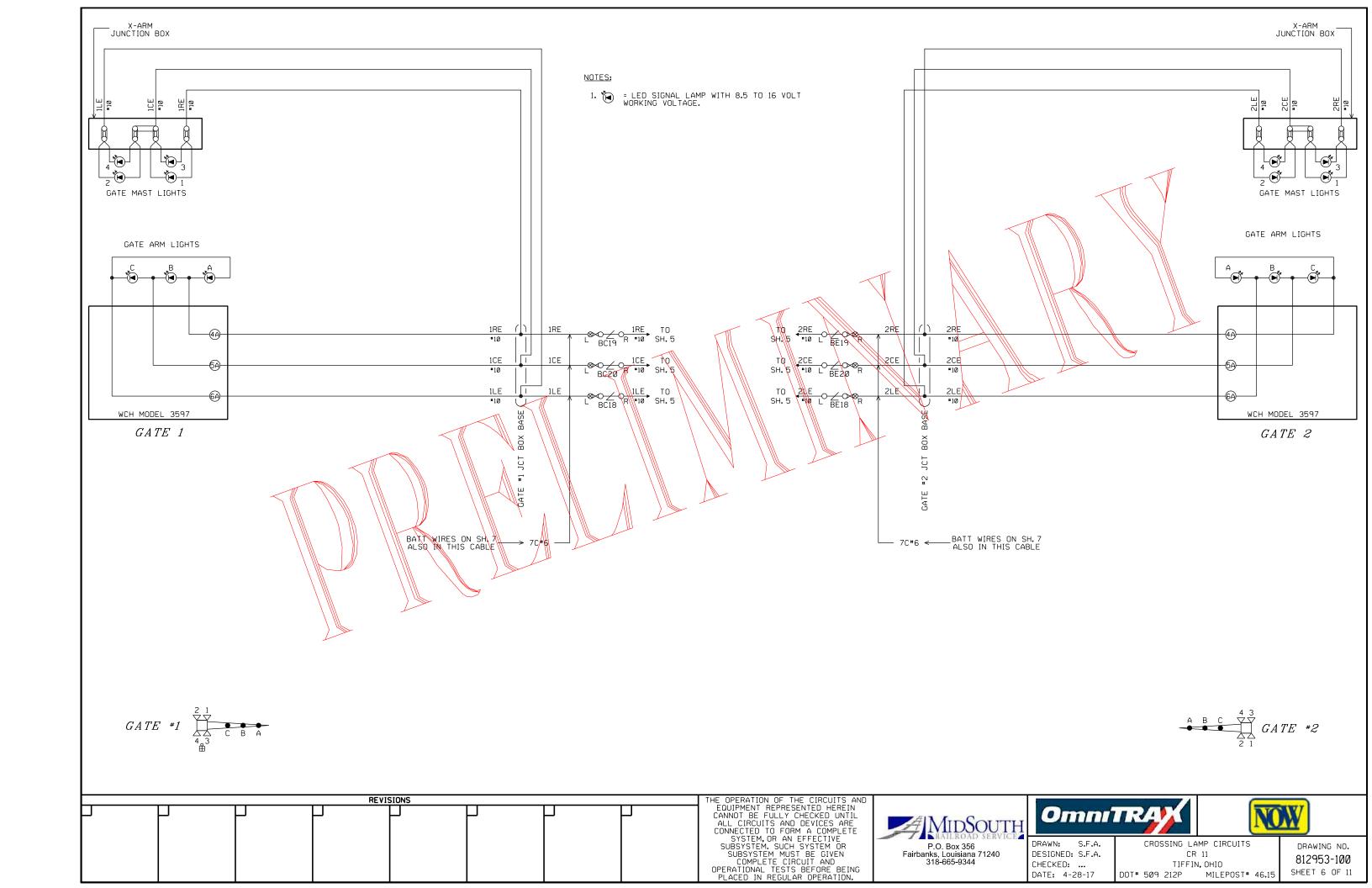


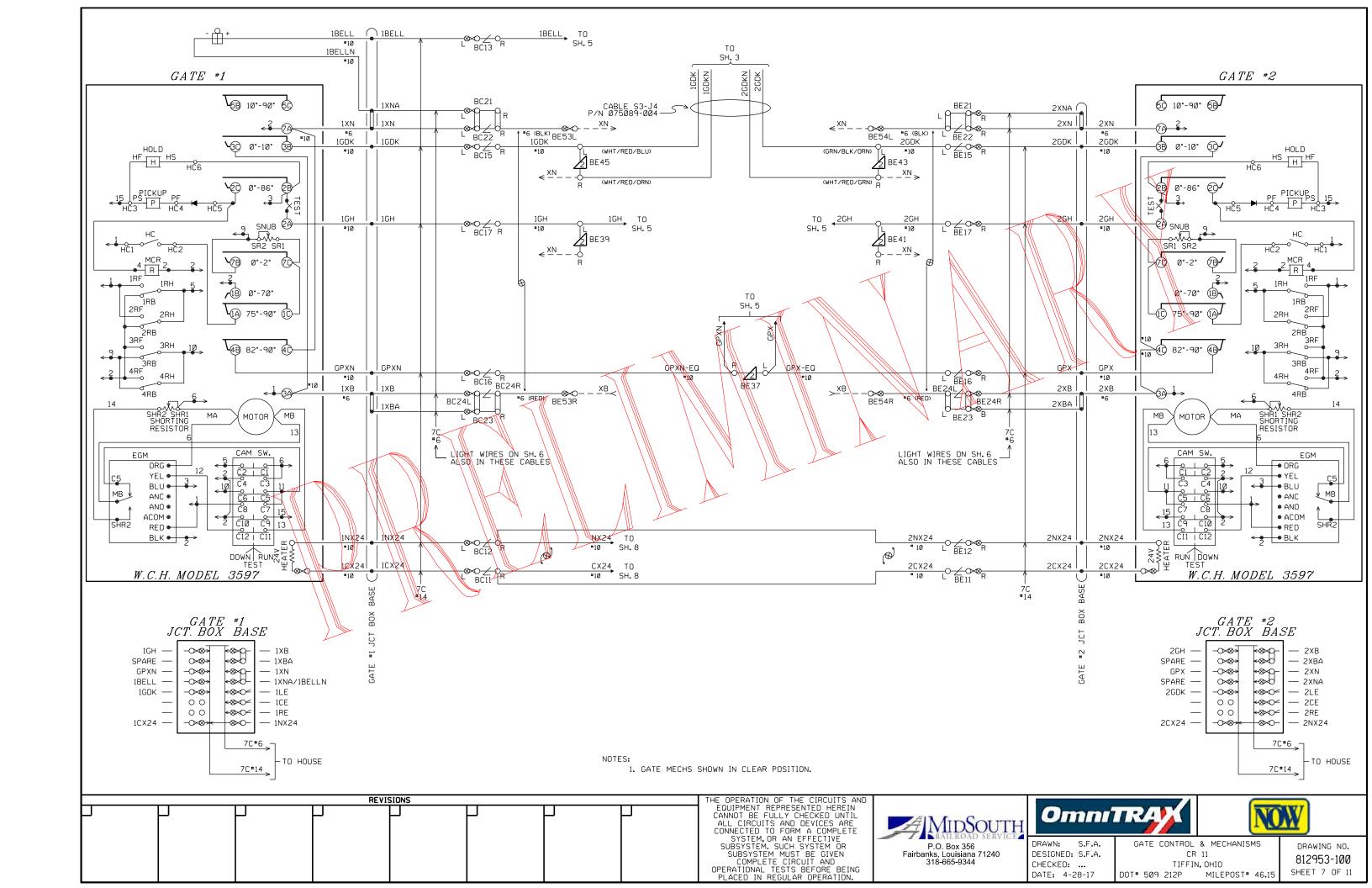


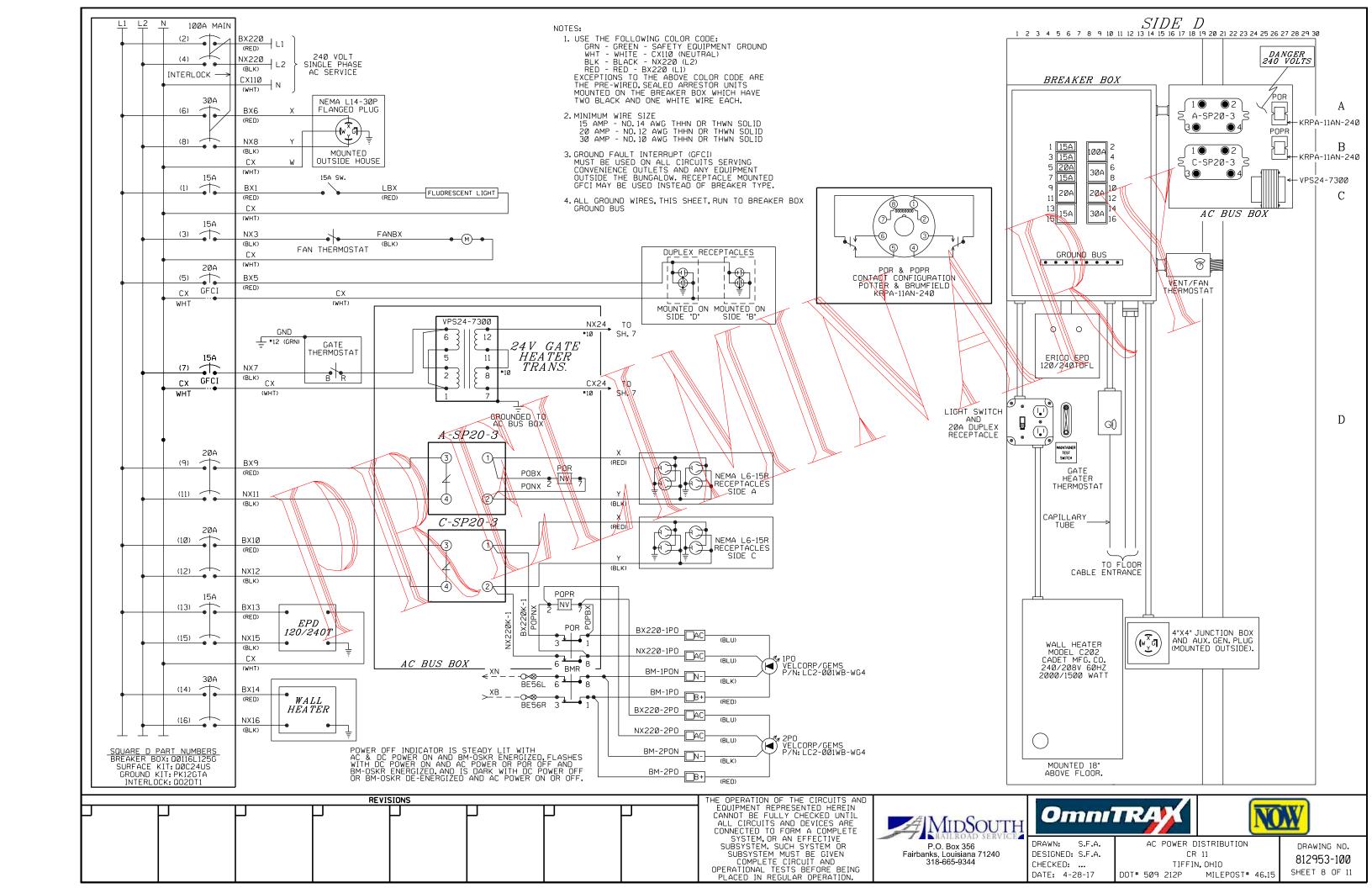
DRAWN: S.F.A. ELECTROLOGIX PROGRAMMING DESIGNED: S.F.A. CR 11 CHECKED: ... TIFFIN, OHIO DOT# 509 212P DATE: 4-28-17 MILEPOST# 46.15

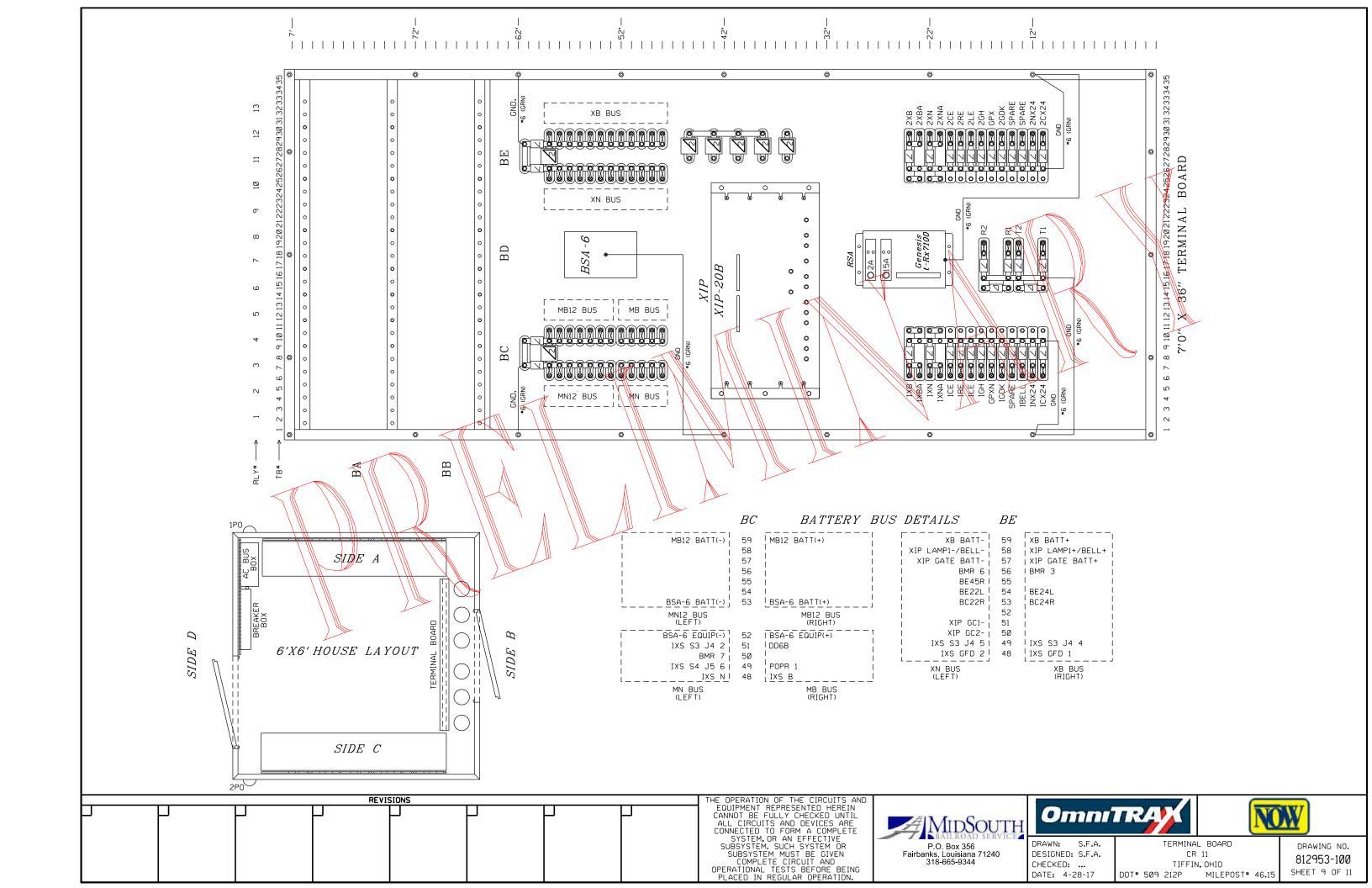
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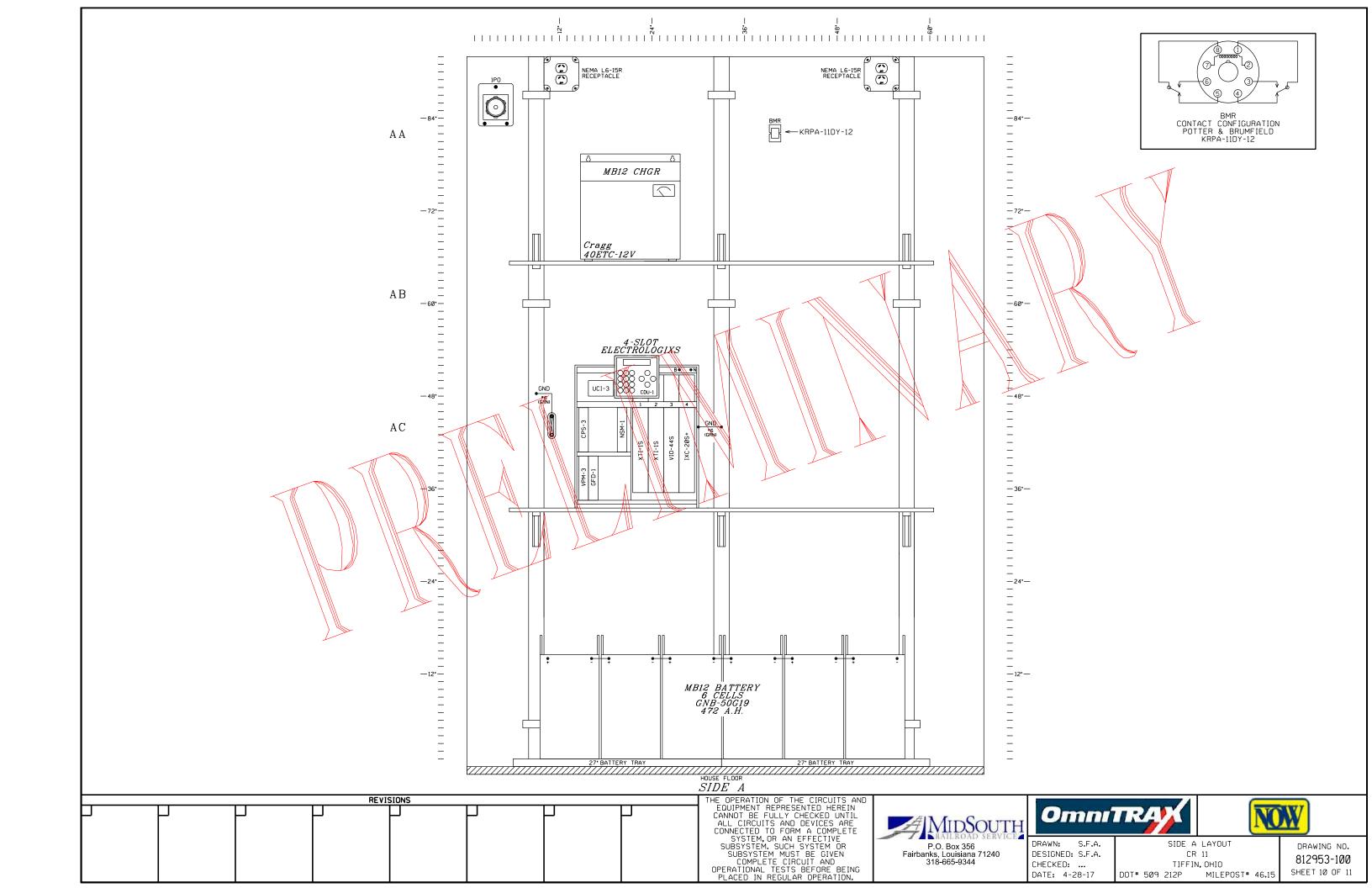


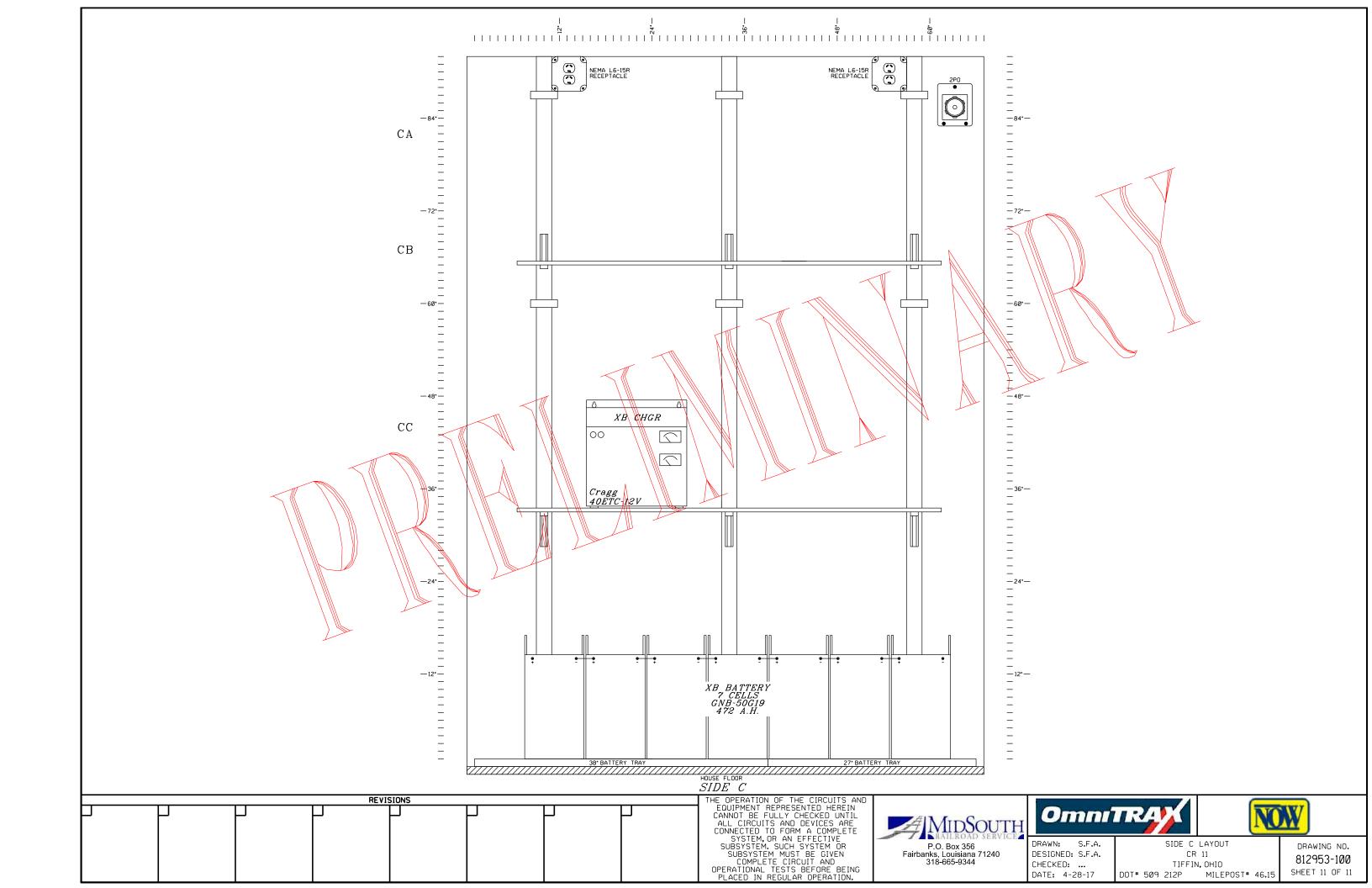














July 13, 2016

Mr. Jason Scott Vice-President Signal/Communications OmniTRAX 252 Clayton St., 4th Floor Denver, CO 80206 Reference Number: 244867T

Subject: Price Estimate for Proposed Railroad Signal Project located at CR-11 near Tiffin, OH

Dear Mr. Scott,

With reference to the above subject and your recent request for a price, Midsouth Railroad Service is pleased to offer the following proposal:

CR-11, Tiffin, OH - DOT # 509212P

Engineer, procure and install grade crossing protection for the above location. Grade crossing protection will consist of pre-wired control shelter and two (2) LED flashing light/gate assemblies. Train detection is to be made with solid-state constant warning equipment using an ALSTOM XP-4 unit with an integrated crossing controller for gates and lights. Please refer to the accompanying material list of items and quantities we propose to furnish and install at the stated price:

Material & installation (including taxes) - \$ 177,147.84

Prelim Engineering/Project Management- \$7,000.00

Omnitrax Admin Support - \$ 16,200.00

Freight - \$ 3,500.00

Grand Total - \$ 203,847.84

FOB: Destination Terms: Net 30 days

Delivery: Typically 120 – 160 Days upon Acceptance of Order (Weather Permitting)

The above price is firm for sixty (60) days and based on the following:

- (1) Commercial AC power or meter service must be available within 75 ft. of proposed instrument shelter site.
- (2) Price does not included any hookup fees from Power Provider
- (3) Installation is based on no hindering obstacles, such as rock, water, or utilities that may interfere with the installation and operation of proposed material.
- (4) Price is based on furnishing material as indicated on the material list which accompanies this proposal.
- (5) Sales Tax is Included

We sincerely appreciate your selection of Midsouth Railroad Service to meet your signal construction needs and please know that we are dedicated to your total satisfaction. If you have any questions please do not hesitate to call me at (318) 614-7281.

Sincerely,

Mark Nelson Vice President

Mach Reha

Location/Description	QTY	
CR 11		
Control Shelter		
HSE 6X6 AL S/L SKR101 L/EPD/KY	1	Each
PROTECTOR SURGE 120/240V W/IND	1	Each
ASSY UCI-3 MODULE	1	Each
ASSY, 9 SLOT ELIXS CHASSIS	1	Each
ASSY VPM-3 MODULE - COMBINED CROSSING & INTERLOCKING	1	Each
ASSY MODULE IWP CPS-3	1	Each
ASSY VIO-44R	1	Each
ASSY MODULE IWP XTI-1S	2	Each
ASSY VIO-44R PERSONALITY MOD	1	Each
ASSY IWP XTI-1S PERSONALITY	1	Each
ASSY MODULE GFD-1	1	Each
ASSY MODULE TC21 IWP NSM-1	1	Each
ASSY MODULE GFD-1	1	Each
ELECTROLOGIXS XP 4 SYSTEM OPERATION AND MAINTENANCE	1	E1-
MANUAL	1	Each
Cable, XTI-1S P3, 16 FT	1	Each
ASSY MOD IXS IXC-20S+	2	Each
ASSY IXC PERSONALITY MODULE	2	Each
ASSY IXS XIP-20B CROSSING INTERFACE PANEL B	1	Each
KIT HARDWARE WALL MT BRKT XIP- 20B	1	Each
Cable, XIP-20 #1 16 FT	1	Each
Cable, XIP-20 #2 16 FT	1	Each
ASSY BSA-6	1	Each
RAIL SHUNT AUGMENTER T-RX7100	1	Each
CHARGER 40A 12V CRAGG 40ETC12V	2	Each
RLY DPDT 240VAC 10A OCT W/LAMP	2	Each
RLY DPDT 12VDC 5A OCT	1	Each
SCKT RLY 8-PIN OCT SCREW PNLMT PROT AC LINE 230V SP20-1B	3	Each
	2	Each
ASSEMBLY, 4 POST TERMINALBLOCK	32	Each
ASSY AGE 1	36	Each
ASSY AGE 2 HD	2	Each
ASSY AGE-2 HD	6	Each
NUT INSULATED HARMON	12	Each
TEST LINK W/PLT & INSUL	80	Each
TEST LINK 2.375" CNTR FL INSUL	2	Each
LABEL RK PNL-MAINTAINER TST SW	1	Each
WIRE 16AWG/19 TC EPR/PVC BLU WIRE 10AWG/19 TC EPR/PVC BLU	450	Foot
	400	Foot
WIRE 6AWG/19THHN BLK	120	Foot
WIRE 6AWG/19 THHN RED	120	Foot
WIRE 6AWG/19 THHN GRN	40	Foot
CABLE RAW 3/14AWG PWR 300V	9	Foot
CONN PLUG L6-15 250V 15A 2P3W	4	Each
ASSY 2WAY TERM BLK W/AAR HARD	8	Each
TRANSFORMER, 110/24V ISO VPS24-7300	1	Each
ASSY TERM STRIP DBL POST 12	8	Each
GROUND POST P5-162	4	Each
LIGHT POWER OFF LED W/WAGO CON	2	Each

KIT SM PRTS/TAGS GENERIC	1	Each
LABEL, DANGER 240 V, 1.75 X 2.	1	Each
THERMOSTAT SPDT REMOTE BULB 8A	1	Each
ASSY SINGLE ROW TERM 12 POST	1	Each
Field Material	2	F 1
FOUND SIGNAL 60"DEPTH 11 11/16	2	Each
GATE SIG 3597 W/32'CWT M/SB/2L	2	Each
SLEEVE 4 ALUMINUM REC #92958	2	Each
HEATER GATE MECH 24VDC 50W WCH	2	Each
GATE KEEPER SK1000-2W DUAL DIR	2	Each
HIGH WIND BKT W/5"HDW LINCOLN	2	Each
GATEARM 16-24' UHI VERT W/LED	2	Each
LENS LED FLASHING 12" RED -H7	8	Each
SIGN XING S-F HI 5"MTG SIG/GAT BELL ELECTRONIC CROSSING 4/5"	2 1	Each Each
CABLE UG 3 COND #4 AWG	_	
CABLE UG 7 COND #6 AWG SOLID	100 350	Foot
CABLE UG 7 COND #14 AWG SOLID		Foot
WIRE UG TRK #6 AWG DUPLEX	350 350	Foot Foot
TAPE MARKER BURIED RR CABLE	330 1	Roll
BATT GND 50G19 1 CELL 472AH	13	Each
WIRE #6 SOFT BARE COPPER	40	Foot
ROD 3/4 X 8 NON-SECT COP GRD	40	Each
CADWELD ONESHOT 3/4" NX TYPE	4	Each
BOND JOINT 3/16" X 7-1/2" XS	275	Each
BOND STRAND 8-STR 3/16" TINNED	125	Foot
BOOTLEG BOND W/COUPLER KIT	123	Each
TAPE ELECTRICAL 3M #33+ 3/4"	3	Each
TAPE ELECTRICAL 3M #130-C	3	Each
COMPOUND INSULATING ELECTRICAL	1	Each
HOSE RUBBER 3/4"	60	Foot
STAPLE GROUND WIRE 1-1/16"X3"	12	Each
TIE CABLE .184 X 7.31" HIG TEM	20	Each
CABLE TIE 14-1/2L NAT	20	Each
LUG RNG 1/4" 12-10AWG INS BLK	65	Each
WIRE DIESEL 10AWG 2000 VOLTS	350	Foot
WIRE DIESEL 6AWG 600V	50	Foot
LUG RNG 1/4" 6AWG AMP ONLY	10	Each
STAPLE COPPERWELD 3/8 X 1-3/4	50	Each
GREASE RUST PREVENTIVE NO OXID	1	Each
SLEEVE NICO 3/16"-#6 AWG REDUC	4	Each
CLIP TRACK WIRE RETAINER	12	Each
COMPOUND DUCT SEAL 5 LB PLUG	3	Each
PADLOCK SIGNAL CASE	5	Each
SIGN, ENS	2	Each
SIGN HDW F/5"MAST RIBBED XING	2	Each
Field Cable Tag Kit	1	Each
TRAY BATTERY 12 X 27"	4	Each
WRENCH TORQUE WCH 3590-K-9	1	Each
WRENCH RLY TST E-POST	1	Each

OHIO RAIL DEVELOPMENT COMMISSION

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

May 22, 2017

Northern Ohio & Western Railway Mr. John Lane Roadmaster 4200 E. 71st Street Cleveland, Ohio 44105

Regarding: Grade Crossing Warning Device Improvement and Roadway Surface Improvement

Authorization to Proceed with Engineering Design, Site Plans, and Cost Estimates

Seneca County, CR 11, DOT# 509212P, PID# 103458

Dear Mr. Lane:

A diagnostic review was held at the above grade crossing on 4/27/2016. The crossing has been recommended for the installation of lights and gates, including the reconstruction of the roadway surface.

The Northern Ohio & Western Railway (NOW) is authorized to proceed with the engineering design, 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 5), if any, made by the team with regard to requirements for this location. This project will include the installation of a new roadway surface. Any other minor roadway or sidewalk work necessary for MUTCD compliance should be incorporated into the Site Layout Plan and such costs will flow through the railroad reimbursement process

I am the ORDC Project Manager for this project. If you have any questions, I can be reached at 614-466-2509 (office), or 614-917-8466 (cell), or document-addition-decomposition-decomposition.

Sincerely,

Donald J. Damron

Grade Crossing Specialist

Ramion

Copied: Randall Schumacher, Supervisor, Rail Division, PUCO

Jill Henry, Rail Division Specialist, PUCO

Susan Arduini, ORDC

ORDC (file)

Attachment: Diagnostic Review Team Survey dated 4/27/2016

PUCO Letter Agreement dated 6/10/2017

State of Ohio Purchase Order



www.rail.ohio.gov phone: 614.644.0306

IMPROVING RAIL TODAY FOR TOMORROW'S ECONOMY

Commissioners

M Beth Trombold Lynn Slaby Thomas W. Johnson Vacant

June 10, 2016

Ms. Billie Johnson Northern Ohio & Western Railway 525 Wall St. 252 Clayton St Tiffin, Oh 44883 DENVEY CO 80206

RE: 1) Seneca County, CR 11, DOT# 509212P, hereinafter referred to as the "Project"

Dear Ms Johnson:

The Public Utilities Commission of Ohio (PUCO) has identified and surveyed the above mentioned grade crossing for a warning device upgrade. The location has been approved for flashing lights and roadway gates with surface reconstruction

The Project shall comply with Agreement No. 5-B, dated January 4, 2000, entered into by the State of Ohio and Northern Ohio & Western Railway. Furthermore, the RAILROAD shall comply with all applicable state and federal laws governing grade crossing safety programs.

Reimbursable costs will be limited by the Ohio Rail Development Commission (ORDC) based upon approved estimates and bid tabulations, if applicable. These limits will be quantified by the ORDC in its construction authorization to the RAILROAD and may be amended by the ORDC based upon revised estimates and bid tabulations. Additional costs must be approved in writing by the ORDC prior to being incurred. Emergency verbal authorizations by ORDC may be permitted but must be confirmed in writing within ten (10) business days of the verbal approval.

The RAILROAD shall complete plans and estimates for the Project within ninety (90) days after the RAILROAD is notified of authorization to proceed unless otherwise agreed by ORDC/PUCO and the RAILROAD.

The RAILROAD shall not commence construction prior to PUCO's Order or ORDC's construction authorization. The RAILROAD shall provide written notification of the construction start date to PUCO and ORDC no later than five (5) business days prior to such date.

Please indicate your acceptance of the terms and conditions of this Letter of Agreement by signing and returning one (1) copy to Mr. George Marlin, Grade Crossing Planner, Rail Division, Public Utilities Commission of Ohio, at the address listed below.

Sincerely,

Milan Orbovich

Director of Transportation Public Utilities Commission of Ohio

mulleligerch

Northern Ohio & Western Railway LCC

Matthew Dietrich

Executive Director

Ohio Rail Development Commission

OHIO RAIL DEVELOPMENT COMMISSION

Diagnostic Review Team Survey

Reason for Survey: (e.g. formula, accident, constituent, etc.)	ormula Spring Pick	Date: 4/27/2016
Location Data		
Street or Road Name:		
Route/Road Number (i.e. Twp., Co., SR or US)		US DOT No.: 509212P
County: SEN Township:	City: (In or Nea	_{ar)} Near Tiffin
Railroad Name: Northern Ohio & West. Rwy	Railroad Western	Branch/Line Carrothers Br.
Nearest RR Timetable Station:		RR Milepost: 46.15
On-Site Review Team	elok azoner zapada aktorek etangan z	
(Include: Name - Organization - Phone Number -	Email)	
1. DON DAMRON ORD		6. don. clamron Octot. obio, gov
2. Dilles Johnson NO	W 567-220-0	046 bydinson Domnitax.co
3. Tim Schumm No	in 419-618-83	583 + 5 chumm @ ampitrax, can
4 BERGE MARTIN 9	PVW 614-752-	9107
5. Jun Surance		ANCE@SUPANCEHOWARD,G.
6 172116	pences Country Engineer	
	CITES COUNTY -/GIPIEC	13 Corpe Miller Janitie
7	0 J	Ou
7.		OV .
8.		
8.		
8. 9.	Installed?	Quantity/Comments
8. 9. Existing Traffic Control Devices	☐Yes ☐ No	Quantity/Comments
8. 9. Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs	☐ Yes ☐ No	Quantity/Comments HEND SIGNSTOBE REPLACED W/ STOP
8. 9. Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs	☐ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☑ No	KEND SIGNSTOBE RETINED W/ STOP
8. 9. Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?)	Yes No Yes Mo Yes Mo Yes No	
8. 9. Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks	Yes No Yes INO Yes INO Yes No Yes No Yes No	KEND SIGNSTOBE RETINED W/ STOP
8. 9. Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs	Yes No Yes INO Yes INO Yes No Yes No Yes No Yes No	MENO SIGNSTOBE RETINED W/ STOP
8. 9. Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs Inventory Tags	Yes No Yes Mo Yes Mo Yes No Yes No Yes No Yes No Yes No	KEND SIGNSTOBE RETINED W/ STOP
8. 9. Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs Inventory Tags Interconnected Highway Traffic Signal	Yes No Yes INO Yes INO Yes No Yes No Yes INO Yes INO Yes INO Yes INO Yes INO	MENO SIGNSTOBE RETINED W/ STOP
8. 9. Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs Inventory Tags Interconnected Highway Traffic Signal Mast-Mounted Flashing Lights	Yes No Yes VNo Yes No	WORN-NEED REFRESHING
8. 9. Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs Inventory Tags Interconnected Highway Traffic Signal Mast-Mounted Flashing Lights Cantilever Flashing Lights	Yes No Yes Yes	KEND SIGNSTOBE RETINED W/ STOP
8. 9. Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs Inventory Tags Interconnected Highway Traffic Signal Mast-Mounted Flashing Lights Cantilever Flashing Lights Side Lights	Yes	MENN SIGNSTOBE RETUNEO W/ STOP WORN - NEED REFRESHING Number: Length:
8. 9. Existing Praffic Control Devices Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs Inventory Tags Interconnected Highway Traffic Signal Mast-Mounted Flashing Lights Cantilever Flashing Lights Side Lights Automatic Gates	Yes	Number: Length:
8. 9. Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs Inventory Tags Interconnected Highway Traffic Signal Mast-Mounted Flashing Lights Cantilever Flashing Lights Side Lights Automatic Gates Bells	Yes	MENN SIGNSTOBE RETUNEO W/ STOP WORN - NEED REFRESHING Number: Length:
8. 9. Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs Inventory Tags Interconnected Highway Traffic Signal Mast-Mounted Flashing Lights Cantilever Flashing Lights Side Lights Automatic Gates Bells Sidewalk Gate Arms	Yes	Number: Number:
8. 9. Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs Inventory Tags Interconnected Highway Traffic Signal Mast-Mounted Flashing Lights Cantilever Flashing Lights Side Lights Automatic Gates Bells Sidewalk Gate Arms 'No Turn' Signs	Yes	Number: Length:
8. 9. Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs Inventory Tags Interconnected Highway Traffic Signal Mast-Mounted Flashing Lights Cantilever Flashing Lights Side Lights Automatic Gates Bells Sidewalk Gate Arms 'No Turn' Signs Illumination	Yes	Number: Number:
8. 9. Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs Inventory Tags Interconnected Highway Traffic Signal Mast-Mounted Flashing Lights Cantilever Flashing Lights Side Lights Automatic Gates Bells Sidewalk Gate Arms 'No Turn' Signs	Yes	Number: Number:

Safety Data (Obtain crash reports, if possible, prior to review)			
Initial Information (from database)		Revised	
Number & dates of crashes 1 (10/23/13) (8/4/2000) n previous 5 years		RR AAS WITNESSED MULTIPLE CLOSE COLLS.	
Hazard Ranking 973 Date Run: 3/30/2016			
Railroad Data			
Railroad Characteristi	ics	Initial Information (from database)	Revised
Total trains per day		0	
< 1 per day		(2 trains 3 days per week, GM 9/4/2014)	GOING TO ONEE/WEEK
Day thru trains	·		(WED OR TNURS)
Night thru trains			Paux & Drop
Daytime switching movemen	ts		SAME DAY
Nighttime switching moveme	ents		
Total number of tracks		1	
Number of main tracks			
Number of other tracks			A
Maximum train speed		25	20
Typical train speed		25	20
Amtrak			<u></u>
If non-gated crossing, is clearing	sight distan	ce adequate in all quadrants? (See Table 1)	Yes No
If multiple tracks, can two trains	occupy cro	ossing at the same time? Tyes INO	
Can one train block the motoris	sts' view of	another train at crossing? 🔲 Yes (Explain b	elow) 🛘 No
Can one or more tracks be elim	inated thro	ugh the crossing? Tes To	
Are there other track(s) crossin	g this same	roadway within 100 ft of this crossing?	Yes Wo
If yes, Crossing DOT #(if diff	ferent)	<u> </u>	_
If yes, distance	_ (take mea	asurement between track centerlines at close	est point along roadway)
Roadway Data			
Local Highway Authority:		Seneca County	
Roadway Characterist	cics	Initial Information (from database)	Revised
Average daily traffic		1512 (2014)	1835 (2005)
Highway paved		X Yes No	Yes No
Roadway Surface: Blacktop	Gravel	Concrete Other	
Roadway width: 20 ft.			
Number of highway lanes		2	
Urban or Rural		(Rural	
Vehicle Speed: 55 MPH			
School Bus Operation: No X Yes Amount 2 AT LEAST			
Hazardous Materials Trucks:			NE V SEASONAL
Shoulders: VNo Yes		= /400 / 1601%	NE / JENJON NE
Is the shoulder surfaced?	о П	Yes	<u></u>
Is there existing guardrail along roadway in crossing vicinity? Yo Yes			
Is stopping site distance adequate? (See Table 2)			

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")	
I None	None	
Pedestrians: Yes		
Is sidewalk present?		
Is there a nearby intersection that could cause queuing over the c If yes, Distance	rossing? Yes	
Is this intersection signalized? No Yes		
Are the signals currently interconnected with the existing cross	ing warning devices? No Yes	
Is there a 'Do not Stop on Track' sign? No Yes		
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? Pro Yes PEGULAR MAINTENANCE If yes, Improvement type Lead Agency Timeline/completion -		
Is it the consensus of the Diagnostic Review Team that this is a po Explain reasons:	otential closure project: Vo Yes	
Type of Development		
Open Space Institutional Location of nearby	y schools:	
Industrial Commercial OCD FORT	THOPENELL LOCATED UTN OF CROSSING	
Residential		
Utility Information		
Is commercial power available? No Fes Utility Provider (Company Name) AFA Nearest Available Power Source AT SITE	Phone Number	
What other utilities are present? (Gas Cable (add locations to sketch) Petroleum Water Other	Telephone Fiber Optic Cable Sanitary Sewer	
Is(are) there potential utility conflict(s)		
Comments: UB GAS AND UG FIBER LOCATED IN		
SW QUAD WHERE GATE MECH WOULD BE		
LOCATED.		

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:
NA
Real Estate or ROW:
NA
Culverts / Drainage / Ballast Conditions:
Roadway and/or Sidewalks:
SURFACE IN CROSSING IN POOR CONDITION
Circuitry (e.g. reaches out to other crossings, specific needs, etc.):
RAIL FOINTS IN SURFACE
Environmental:
Other:

Diagnostic Team Recommendations	
	Quadrants Needed
Install/upgrade active devices	
Automatic Flashing Lights (AFLS)	
☐ AFLS /Cants	
AFLS / Gates / Cants	
🔼 Belis / number	
Upgrade circuitry / type	
Sidelights	
☐ Guardrail Needed	
Install/Replace curb	
☐ Bungalow placement & offset from rail & highway	NE, NWOR SW
Other (define)	
Comments:	
CONGENSUS - UPGRADE TO LIGHTS & GATE	11 550
-	
KONDUNY SURFACE AND ELIMIN	VATED RAIL VOINTS ARE NEEDED.
☐ Install/upgrade traffic signal preemption	
☐ No improvements needed	
Other (define)	· · · · · · · · · · · · · · · · · · ·
Acknowledgement of Recommendations (each entity represented	at the diagnostic must have at least one signature
acknowledgement):	
(Stames &	Manual DK
TO T	
V1 14 1	
V · · · · · · · · · · · · · · · · · · ·	
Field Dimensions	
· ·	A) FILL GOAL COCK OF
Sidewalk Show North	NEW SURFACE 13
Direction	NEW SURFACE 15.
Parkway	
rainway	
Roadway ,	
Roadway	
<u> </u>	
Parkway	I .
Sidewalk	

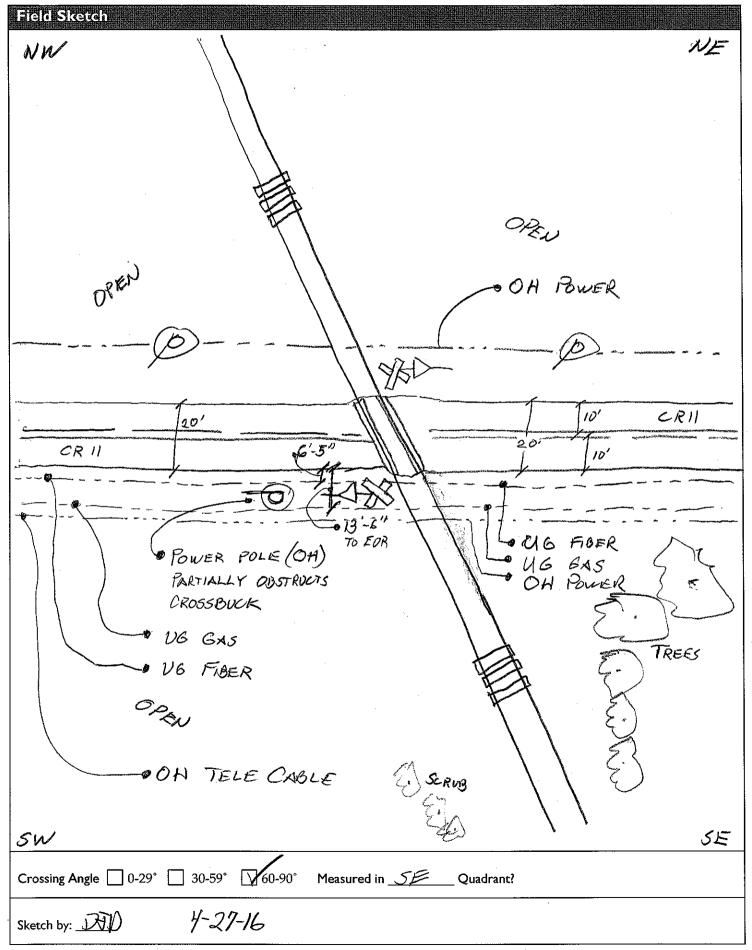


TABLE I

Clearing Sight Distances

Maximum Authorized Train Speed	Distance (dT) Along Railroad from Crossing (ft)
1 - 10	240
15	360
(20)	480)
25	600
30	720
. 35	840
40	960
45	1080
50	1200
55	1320
60	1440
65	1560
70	1680
75	1800
80	1920
85	2040
90	2160

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

Notes:

All calculated distances are rounded up to the next higher 5-foot increment.

Distances indicated are for 65-ft double bottom semi-tractor trailers and level single track 90 degree crossings; and may need to be adjusted for multiple tracks, skewed crossings or approaches on grades.

Clearing Sight Distance is to be measured in each vehicle travel direction at <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.

Table 2

Stopping Sight Distances

Highway Vehicle Speed	Distance (dH) Along Roadway from Crossing (ft)
0	n/a
-5	50
10	70
15	105
20	135
25	180
30	225
35	280
40	340
45	410
50	490
(55)	(570)
60	660
65	760
70	865

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

Notes:

All calculated distances are rounded up to the next higher 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: <u>SEN</u> Route: <u>CR11</u> DOT#: <u>509212</u> P Surface type Condition ☐ Rubber seal and asphalt ☐ Good পর্ব Timber and asphalt □ Fair ☐ Asphalt ▶ Poor ☐ Composite Comments: □ Concrete panel ☐ Full-depth timber ☐ Full-depth rubber □ Other Yes / (No Is the surface good and sufficient? Vehicle type (cars, trucks, etc.): CARS & TRUCKS Surface conditions: Can vehicles cross at posted speed? NEED TO SLOW SOMEWIND Local observations/driver behaviors: Relevant crash history: Nork Do existing surface conditions have negative effects on the current or proposed warning devices? Explain: YES, JOINTS ARE WITHIN SURFACE WELDER RAIL AND NEW SURFACE IS NEEDED Comments: NEW SURFACE WILL NEED TO BE PART OF POSSIBLE WARLING DEVICE UPERADE. Form completed by: Don Dame Date: 4-27-16 This foregoing document was electronically filed with the Public Utilities

Commission of Ohio Docketing Information System on

9/12/2017 9:46:43 AM

in

Case No(s). 17-1665-RR-FED

Summary: Application In the Matter of a Request for the Installation of Active Warning Devices at the Northern Ohio & Western Railway, CR 11 DOT#509-212P, in Seneca County, Ohio. electronically filed by Mrs. Jill A Henry on behalf of PUCO/Rail Division