

Memo

To: Docketing Division

From: Jill Henry, Rail Specialist, Rail Division

Cc: PUCO Legal Department

Date: 6/16/2021

Re: PUCO Case No. 21-704-RR-FED- In the Matter of a Request for the Installation of Active Warning Devices at the Wheeling & Lake Erie Railroad Grade Crossing, DOT# 002-015W, at Chenango Road/TR 183 in Huron County, Ohio.

On January 15, 2021, the Ohio Rail Development Commission (ORDC) authorized funding for Wheeling & Lake Erie Railroad (WE) to upgrade to lights and gates at Chenango Road/TR 183 (DOT#002-015W) in Huron County, Ohio. The crossing was surveyed, on November 6, 2019, and was found to warrant the upgrade. The electric utility provider for this crossing is Firelands Electric Cooperative.

The project will be paid for with federal funds and is actual cost. The plans and estimates for the project in the amount of \$254,187.35 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 railroad will be responsible 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:

Wheeling & Lake Erie Railway Company
Tim Andrews
Signals & Communications Supervisor
100 E. First Street
Brewster, Ohio 44613

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

New London Township, Huron County
Trustees
5335 Section Line Road
New London, OH 44851

Huron County Engineer
Lee Tansey
County Engineer
150 Jefferson Street
Norwalk, OH 44857

Firelands Electric Cooperative, Inc.
103 Industrial Drive
PO Box 32
New London, OH 44851

**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: Huron County, Township Rd 183/Chenango Rd, Wheeling & Lake Erie
DOT#002-015W, PID#114047
DATE: May 21, 2021

The Ohio Rail Development Commission (ORDC) established a diagnostic survey at the subject location on November 6, 2019. The Diagnostic Team recommended that the crossing be upgraded to flashing lights and roadway gates. 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 nine 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 railroad will be responsible 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, Rail Division Chief, PUCO
Heather Hamilton, ORDC
ORDC Project Manager (file)



Rail Development Commission

Mike DeWine, Governor
Jon Husted, Lt. Governor

Scott Corbitt, Chair

May 21, 2021

Mr. Tim Andrews
Wheeling & Lake Erie Railway
100 East First Street
Brewster, Ohio 44613

RE: Huron County, TR183/Chenango Rd.
DOT#002-015W, PID#114047

Dear Mr. Andrews:

The plan dated January 15, 2021 and estimate dated May 6, 2021 for the referenced project has been reviewed and 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.** Wheeling & Lake Erie (WLE) 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 is limited to \$254,187.35. 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 WLE accepting the following instructions:

1. WLE'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.ohio.gov. WLE'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. WLE 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 WLE. **If it is known that there are utilities that need to be relocated, WLE needs to start that coordination work as soon as possible to avoid project delays.**



3. WLE's project foremen will notify James Tucker at 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. WLE will furnish two (2) copies of each partial bill to ORDC. Please find the enclosed ODOT Purchase Order to reference when billing.
6. WLE 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,

A handwritten signature in black ink, appearing to be 'J. Tucker', with a stylized flourish at the end.

James Tucker
Project Manager

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

WHEELING & LAKE ERIE RAILWAY COMPANY

Tim Andrews
Signal & Communication Supervisor
Tel. 330-767-7255

tandrews@wlerwy.com

100 East First Street
Brewster, OH 44613
Fax: 330-767-3213

May 6, 2021

Ohio Rail Development Commission
Mr. James Tucker
1980 West Broad Street, Room 2B
Columbus, OH 43223

Re: Estimate for Railroad Crossing Warning System at Chenango Rd. - DOT: 002-015-W

Dear Mr. Tucker,

I am providing this estimate for the crossing package and installation at Chenango Rd. Approval of material cost and installation will be performed under our continuing agreement with RioTech. The WLE will coordinate with the CSX any testing and adjustments that will need to take place as part of the Electrologic changes/adjustments.

Engineering Services/Labor, Riotech (breakout attached)	\$208,760.89
Preliminary Installation Services, Crosier (breakout attached)	\$25,868.46
Electric Service, Emery	\$7,500.00
Electric Utility fees	\$2,500.00
WLE Direct Signal Labor	\$8,500.00
Galvanized signal foundations	\$1,058.00
 TOTAL	 \$254,187.35

Please contact me if additional details are required.

Respectfully,



Tim Andrews

Notes

1: Direct purchase from Fabricated Metals, 60' galvanized gate foundation, \$529.00 ea.

Wheeling & Lake Erie Railway
OH, New London - Chenango Rd - DOT#002015W
Riotech Project Estimate



ENGINEERING				
<i>Description</i>	<i>Qty</i>	<i>UOM</i>	<i>Unit Price</i>	<i>Amount</i>
DIAGNOSTIC TECHNICIAN	16	HR	\$66.70	\$1,067.20
CADD TECHNICIAN	40	HR	\$36.25	\$1,450.00
SIGNAL DESIGNER	40	HR	\$65.67	\$2,626.80
SIGNAL ENGINEER - CHECK	4	HR	\$65.67	\$262.68
SIGNAL ENGINEER - SEAL (IF APPLICABLE)	4	HR	\$66.53	\$266.12
LOGIC PROGRAMMER	8	HR	\$66.53	\$532.24
SUBTOTAL				\$6,205.04
G&A	164%			\$10,176.27
FIXED FEE	10%			\$1,638.13
ENGINEERING TOTAL				\$18,019.44

PROJECT MANAGEMENT				
<i>Description</i>	<i>Qty</i>	<i>UOM</i>	<i>Unit Price</i>	<i>Amount</i>
PROJECT MANAGER - SIGNAL	24	HR	\$43.27	\$1,038.48
SR. PROJECT MANAGER - SIGNAL	4	HR	\$65.67	\$262.68
PURCHASING MANAGER	24	HR	\$35.38	\$849.12
ACCOUNTING	8	HR	\$40.00	\$320.00
SYSTEMS PROJECT SPECIALIST	4	HR	\$22.50	\$90.00
SUBTOTAL				\$2,560.28
G&A	164%			\$4,198.86
FIXED FEE	10%			\$675.91
PROJECT MANAGEMENT TOTAL				\$7,435.05

EAF LABOR				
<i>Description</i>	<i>Qty</i>	<i>UOM</i>	<i>Unit Price</i>	<i>Amount</i>
EAF SUPERVISOR	8	HR	\$30.31	\$242.48
EAF LEAD FOREMAN	32	HR	\$27.50	\$880.00
LEAD WIREMAN	56	HR	\$20.75	\$1,162.00
TEST	8	HR	\$36.90	\$295.20
TEST - SPECIFIC	4	HR	\$66.53	\$266.12
QA/QC	10	HR	\$35.38	\$353.80
SUBTOTAL				\$3,199.60
G&A	164%			\$5,247.34
FIXED FEE	10%			\$844.69
EAF LABOR TOTAL				\$9,291.64

Wheeling & Lake Erie Railway

OH, New London - Chenango Rd - DOT#002015W

Riotech Project Estimate



CONSTRUCTION LABOR				
<i>Description</i>	<i>Qty</i>	<i>UOM</i>	<i>Unit Price</i>	<i>Amount</i>
MANAGER OF FIELD SVCS	8	HR	\$43.27	\$346.16
CONSTRUCTION SUPERVISOR	80	HR	\$32.83	\$2,626.40
CREW FOREMAN	80	HR	\$29.94	\$2,395.20
CREWMAN 3	80	HR	\$22.04	\$1,763.20
CREWMAN 1	80	HR	\$20.00	\$1,600.00
SUBTOTAL				\$8,730.96
G&A	164%			\$14,318.77
FIXED FEE	10%			\$2,304.97
CONSTRUCTION LABOR TOTAL				\$25,354.71

CONSTRUCTION LABOR EXPENSES				
<i>Description</i>	<i>Qty</i>	<i>UOM</i>	<i>Unit Price</i>	<i>Amount</i>
CREW MEALS	32	EA	\$56.00	\$1,792.00
CREW LODGING	32	EA	\$100.00	\$3,200.00
MOBILIZATION	1	EA	\$3,000.00	\$3,000.00
SUBTOTAL				\$7,992.00
FIXED FEE	0%			\$0.00
CONSTRUCTION LABOR EXPENSES TOTAL				\$7,992.00

CONSTRUCTION EQUIPMENT				
<i>Description</i>	<i>Qty</i>	<i>UOM</i>	<i>Unit Price</i>	<i>Amount</i>
TRUCK, PU, 1 TON CREW CAB	80	HR	\$15.71	\$1,256.80
TRAILER, UTILITY (12,000lb SC410)	80	HR	\$7.55	\$604.00
RENTAL EQUIPMENT (FORKLIFT - 8K)	2	WK	\$1,600.00	\$3,200.00
RENTAL EQUIPMENT (BACKHOE W/18" BKT)	1	WK	\$1,600.00	\$1,600.00
EQUIPMENT DELIVERY/PICKUP	6	LS	\$250.00	\$1,500.00
DIESEL FUEL SURCHARGE	40	GAL	\$5.00	\$200.00
SUBTOTAL				\$8,360.80
FIXED FEE	0%			\$0.00
CONSTRUCTION EQUIPMENT TOTAL				\$8,360.80

MATERIAL				
<i>Description</i>	<i>Qty</i>	<i>UOM</i>	<i>Unit Price</i>	<i>Amount</i>
HOUSE MATERIAL	1	LS	SEE ATTACHED DETAIL	\$82,940.00
FIELD MATERIAL	1	LS	SEE ATTACHED DETAIL	\$38,745.85
MATERIAL INBOUND FREIGHT	1	LS	\$2,500.00	\$2,500.00
FILL DIRT	10	TN	\$25.89	\$258.90
COVER ROCK (3/4" CRUSHED - WHITE)	25	TN	\$26.50	\$662.50
PALLET CHARGE - GATES	2	EA	\$100.00	\$200.00
SUBTOTAL				\$125,307.25
TAX (IF APPLICABLE)	-			\$0.00
FIXED FEE	0%			\$0.00
MATERIAL TOTAL				\$125,307.25

Wheeling & Lake Erie Railway
OH, New London - Chenango Rd - DOT#002015W
Riotech Project Estimate



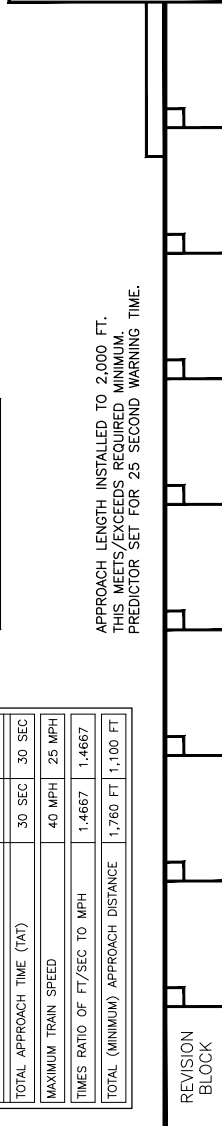
SUBCONTRACTOR				
<i>Descripton</i>	<i>Qty</i>	<i>UOM</i>	<i>Unit Price</i>	<i>Amount</i>
SUBCONTRACTOR SVC - CONTAINER DELIVERY	1	LS	\$4,500.00	\$4,500.00
SUBCONTRACTOR SVC - CONTAINER PICKUP	1	LS	\$2,500.00	\$2,500.00
SUBTOTAL				\$7,000.00
FIXED FEE	0%			\$0.00
SUBCONTRACTOR TOTAL				\$7,000.00

TOTAL PROJECT ESTIMATE	\$208,760.89
-------------------------------	---------------------

HOUSE MATERIALS		
DESCRIPTION	QTY	UOM
Bungalow, Alum. 6 X6 w/Heater P/N 91000564 D-1, PTMW	1	EA
Wrench, AAR terminal - 11", P/N 032619-9X, Siemens	1	EA
Sensor, Intrusion Alarm Switch, P/N 9410002021, PTMW	2	EA
Decal, Danger 240V (5"X3.5"), P/N 3XDU5, Grainger	1	EA
Wire, Case, #16AWG 1000' spool, Blue, P/N 152-11-3002, Okonite	2	EA
Wire, Case, #10AWG 1000' spool, Blue, P/N 152-11-3038, Okonite	2	EA
Wire, Case, #6AWG, Green, P/N N6GNM, Reynolds	100	FT
Wire, Case, #6AWG, Black, P/N N6BM, Reynolds	100	FT
Wire, Case, #6AWG, Red, P/N N6RD, Reynolds	100	FT
Event Recorder/Remote Monitoring Device, RioTech	1	EA
Vanguard 5530 Cell Modem basic package (Verizon), P/N VG5530-LVZ-M, CalAmp	1	EA
Modem bracket, DIN Rail mount, P/N 250-5800-410, CalAmp	1	EA
Antenna, 4G Omni Plus Directional Kit, P/N 304422-5810, Wilson Electronics	1	EA
DIN Rail, 35mm x 2', zinc-plated w/end caps	1	EA
Cable, 3' Cat6 Ethernet cable	1	EA
MDSA-2X Surge arrestor panel, P/N 250675-100, Alstom	1	EA
XP4 Chassis, Alstom - AS SHOWN ON PRINTS	1	EA
XIP-20 w/Lamp Resistor, P/N 227561-000, Alstom	1	EA
Cable, XIP 12 ft (cable #1) (need 1 for XP4 Assy) P/N 075046-001, Alstom	1	EA
Cable, XIP 12 ft (cable #2) (need 1 for XP4 Assy) P/N 075047-001, Alstom	1	EA
Relay, 8-pin KRPA style, 10A/240V, P/N 70198711, Allied	3	EA
Relay, 8-pin KRPA style, 10A/12VDC, P/N 70199265, Allied	2	EA
Socket, 8-pin KRPA style, P/N 70199343, Allied	5	EA
Spring, Hold down for KRPA style relay, P/N 70198576, Allied	5	EA
Battery Charger, ETC-12V 40AMP, P/N 520740, Railway Equipment	2	EA
Battery, NiCad 420 A.H., P/N SPL-420, Saft	9	EA
Battery, NiCad 340 A.H., P/N SPL-340, Saft	10	EA
Terminal, Battery, 3-PT, P/N 225481-000, J&A Industries	4	EA
Battery Tray 12"x27", P/N 027002-001, J&A	4	EA
Nema Plug, Locking, 15 Amp/240V, P/N L6-15P, Reynolds	2	EA
Power Indicator, 2 Eye/4 Wire w/wago conn, P/N LC2-001WB-WG4, Velcorp Gems	1	EA
Cable, SJ Cord 4c/14 for Bungalow, P/N BJ11404	50	EA
Tie-wrap, 11 1/2", PKG 100, Black, P/N LTS11-0, Vantex	1	EA
Tie-wrap, mounting, PKG 100, P/N TYM, Vantex	1	EA
Loom, Spiral Wrap 100', Black, P/N SW38-0, Vantex	1	EA
Panduit, Wire Duct, 2"X3"X6' Gray, P/N G2X3LG6, Graybar	6	EA
Panduit, Cover, 6' Gray, P/N C2LG6, Graybar	6	EA
Terminal, 2X6 W/ Flat nut/washer, P/N 220-0101, Rebel	5	EA
Terminal, Block, 2 3/8" center - 2 post w/hardware, P/N 220-0301, Rebel	8	EA
Terminal, 4-post, Block Kit, w/ 14-24 AAR Hardware, P/N B2700A2C1WH, Erico	17	EA
RailSurge Plane Strip Busbar (36"), P/N B2700HC36, Erico	2	EA
Connector, Buss Strap (1" - 36 holes), P/N 9A2216-36, L&W Industries	4	EA
Arrestor, DC, P/N EPD2050F, Erico	17	EA
Arrestor, AC, P/N EPD2170F, Erico	4	EA
Equalizer, Air Gap, with Cover/Hardware, P/N 4000-44700-001X, Siemens	2	EA
Binding Nut, P/N 13073-000, Rebel	200	EA
Clamp Nut, P/N 13079-000, Rebel	200	EA
Washer, P/N 013074-000, Rebel	200	EA
Insulated Nut, 1 3/16", P/N 023408-1X, Safetran	24	EA
Gold Test Nut, P/N 13296-001, Rebel	50	EA
1' Test Link, Flat, P/N 32257-002, Rebel	50	EA
Terminal Ring, 1/4", insulated, #14 - #16 (yellow w/blk stripe), Arrow Electronics	100	EA
Terminal, Ring, 1/4" non-insulated, #6, Battery Lug, P/N T6-14, Vantex	8	EA

FIELD MATERIALS		
DESCRIPTION	QTY	UOM
Cable, 7/C#6, Armored, P/N 1077-02, Alstom	500	FT
Cable, 7C#14, Armored, P/N 1023-02, Alstom	500	FT
Cable, 3C#6, Armored w/ground, P/N 012243-200, Alstom	300	FT
Wire, Track, 2C/#6, Twist, Solid, P/N 1094-02, Alstom	600	FT
Bootleg Kit-Complete (IE. Red Hose, Sleeves, Heat shrink, Rubber tape, electrical tape)	2	EA
Liquid Tape, 4 oz bottle, Home Depot	3	EA
Bond Wire, 7 1/2" XS Style, P/N SBS24883, Erico	100	EA
Connector, Track, Web of Rail, P/N SB20136, Erico	100	EA
Wheel, grinding, P/N SB22122, Erico	3	EA
5/8" X 8' Copper Ground Rod P/N 615880, Erico	6	EA
5/8" Ground Rod Weld, P/N SBNT1161G, Erico	6	EA
Wire, Ground, #6AWG, Bare Copper, Graybar	60	FT
NBS, (430Hz) P/N 250250-G09B, Alstom	2	EA
Shunt Enclosure, Orange, P/N 500-400-100-09-Orange, G&B	2	EA
Mast, Gate, 18'X5" w/pigtail (single-sided Jct Box), P/N 715-324-2-GS, WCH	2	EA
Jct box, Gate, 5" single hole w/24 terminals, P/N 2149-A-139, WCH	2	EA
Pinnacle, 5", P/N 010-9034, Rebel	1	EA
Mech, Model 3597, P/N 3597-131-P-H-MI, WCH (WLE P/N)	2	EA
Crossarm Assy, 5" Mtg., 2 Way, P/N 975-0804-5, WCH	2	EA
Lights, 12" LED, P/N 433121680XLTC-00, Arms	8	EA
Counterweight Pkg, 17'-32', Stud plate, L&R arms, P/N CTWT-AL-32, WCH	2	EA
Sign, Crossbuck, No brackets/hardware, P/N 070-0065, Rebel Railway	2	EA
5" Sign Kit, Brackets/extensions/Ubolts/hardware, P/N 070-5008, Rebel Railway	4	EA
Wind Bracket, 36", 5"MTG w/hardware, P/N NEG-191036, NEG	2	EA
Bell, Electronic, 5" Base, P/N EB-3-360-5, GSI	1	EA
Gate Keeper, 2-Way, w/Hardware & Buffer Spring, P/N SK-1000-SW40, GSI	2	EA
E-Z Gate LED lamp kit, P/N 9298-1120, Railway Equip	2	EA
Gate, Alum/Polyglass adjustable 19-24', P/N SG-1924-FT-HI, GSI	2	EA
Wrench, Torque (KIT), P/N 2590-K-9, WCH	1	EA
Sign, Emergency, ENS, 15"X9" Blue, Eagle Traffic	2	EA
Field cable Tag Kit.	1	EA
Tape, 3M Scotch 3/4" x 66' electrical tape - Black (3-pack), Home Depot	1	EA
Schedule 40 2" & 4" PVC Conduit Kit with Elbows (See list below)	1	LOT
PVC Solvent Cement	1	EA
Duct seal, 5lb, P/N 31-605, Graybar	3	EA
Plaster, DAP 4lb Box, Home Depot	1	EA
Lock, Barrel Style	5	EA

PVC Conduit Kit	Qty
PVC Conduit, 4"x10' Schedule 40 w/bell	15
PVC 90° Elbow, 4", 16" Radius w/bell	6
PVC Coupler, 4" Schedule 40	11
PVC Conduit, 2"x10' Schedule 40 w/bell	17
PVC 90° Elbow, 2", 24" Radius w/bell	9
PVC Coupler, 2" Schedule 40	11



CONSTRUCTION NOTES

- 1.) INSTALL NEW 6' X 6' BUNGALOW IN SOUTHEAST QUADRANT.
- 2.) INSTALL (2) NEW FLASHING LIGHTS WITH GATES.
- 3.) METER POLE LOCATION SHOWN ON THE PLAN IS SUBJECT TO CHANGE WITHIN RAILROAD RIGHT-OF-WAY IF UNDERGROUND OBSTRUCTIONS PREVENT THE INSTALLATION OF THE POLE IN THE LOCATION SHOWN.
- 4.) BUNGALOW AND SIGNAL LOCATIONS SHOWN ON THE PLAN ARE SUBJECT TO CHANGE WITHIN RAILROAD RIGHT-OF-WAY IF UNDERGROUND OBSTRUCTIONS PREVENT THE INSTALLATION OF THE BUNGALOW/SIGNALS IN THE LOCATION SHOWN.
- 5.) WILL NEED FILL IN BUNGALOW QUADRANT. NO WALL NEEDED.



RIO GRANDE PACIFIC
TECHNOLOGY
9601 CAMP BOWIE W BLVD
FORT WORTH, TX 76116
(817) 886-8210
WWW.RIOTECHNOLOGY.COM

Wheeling & Lake Erie
Railway

LOCATION
CHENANGO ROAD (TWP 18.3)
NEW LONDON, OHIO

PERSONAL DATE	01-15-2021	TITLE	41.0909619, -82.3724110
DESIGNER	RGPT	SUB	CAREY
CHECKED	RGPT	TRNG	N - 100.30
CHECKER	RGPT	SCALE	N.T.S.
		SHEET	01A OF 20

REVISION
BLOCK



CROSSING SIGNAL ALIGNMENT

LEGEND

- A GATE #1 FRONT MAST LIGHTS
- B GATE #2 BACK MAST LIGHTS
- C GATE #1 BACK MAST LIGHTS
- D GATE #2 FRONT MAST LIGHTS

ALIGNMENT

FRONT LIGHTS
FRONT LIGHT UNIT VERTICALLY TO ALIGN AXIS OF BEAM 5 FT. 6 IN. ABOVE PAVEMENT AT SELECTED
ADJUST LIGHT DISTANCE. BOTH LAMPS SHOULD BE ALIGNED TO SAME POINT.
ADJUST LIGHT UNIT HORIZONTALLY TO ALIGN AXIS OF BEAM TO CENTER OF APPROACH LANE IN
APPROACH TO SIGNAL AT SELECTED ALIGNMENT DISTANCE. MAINTAINING VERTICAL ALIGNMENT. BOTH
LAMPS SHOULD BE ALIGNED TO SAME POINT.
BACK LIGHTS
BACK LIGHT UNIT VERTICALLY TO ALIGN AXIS OF BEAM 5 FT. 6 IN. ABOVE PAVEMENT AT A POINT 50
FT. IN APPROACH TO THE SIGNAL ON OPPOSITE SIDE OF TRACK.
ADJUST LIGHT UNIT HORIZONTALLY TO ALIGN AXIS OF BEAM TO A POINT 50 FT. IN APPROACH TO THE
SIGNAL ON OPPOSITE SIDE OF TRACK AND IN CENTER OF APPROACH TRAVEL WAY.



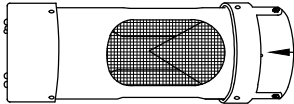
RIO GRANDE PACIFIC
TECHNOLOGY
9601 CAMP BOWIE W BLVD
FORT WORTH, TX 76116
(817) 886-8210
WWW.RIOTECHNOLOGY.COM

Wheeling & Lake Erie
Railway

LOCATION		CHENANGO ROAD (TWP 183) NEW LONDON, OHIO	
DESIGNER	41.0909619, -82.3774110	TITLE	CROSSING SIGNAL ALIGNMENT
PROJECT	RGPT	SUB	CAREY
PROJECT	RGPT	PROP	N = 100.30
PROJECT	RGPT	DATE	02/01/20

REVISION
BLOCK

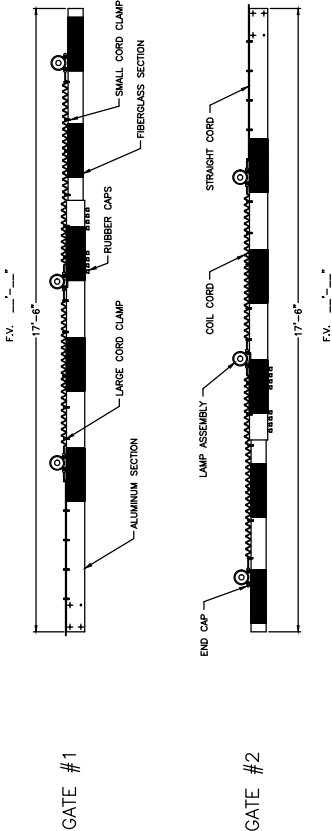
ELECTRONIC CROSSING BELL
GSI MODEL EB-3-360-5



THIS SIDE FACING
ROADWAY

SITE LAYOUT NOTES

- 1.) CROSSING IS LOCATED: LATITUDE 41.0909619
LONGITUDE -82.3774110



**Wheeling & Lake Erie
Railway**

**RIO GRANDE PACIFIC
TECHNOLOGY**

9601 CAMP BOWIE W BLVD
FORT WORTH, TX 76116
(817) 886-8210
WWW.RIOTECHNOLOGY.COM

LOCATION

CHENANGO ROAD (TWP 18.3)
NEW LONDON, OHIO

PERSONAL DATE	01-15-2021	TITLE	41.0909619, -82.3774110
DESIGNER	RGPT	SUB	CAREY
DRAWN	RGPT	DATE	01-15-2021
CHECKED	RGPT	SCALE	N.T.S.
DATE	01-15-2021	SHEET	03 OF 20

CHANGE FROM TYPICAL N

REVISION
BLOCK

ADJUSTMENT NAME	MORT
NAME	HIGHWAY CROSSING
WARNING TIME	25 SEC
CW/MD	CW
AP TIME	00 SEC
CWE-WT	00 SEC
AUX RECOVERY DELAY	05 SEC
TK1	TK2
TK3	TK4
ASSIGN	ASSIGN
0 FT	0 FT
MD RESTART	*
SUDDEN SHUNT ZONE	DISABLE
PSEN	NA
PSRX	NA
PST	NA
PUEN	DISABLE
PURX	NA
PJDT	NA
POST JOINT DETECT	NA

MDR2	HIGHWAY CROSSING
25 SEC	
CW	
00 SEC	
00 SEC	
05 SEC	
TK1	TK2
TK3	TK4
ASSIGN	ASSIGN
0 FT	0 FT
*	*
DISABLE	DISABLE
NA	NA
NA	NA
DISABLE	DISABLE
NA	NA
NA	NA

BASIC TRACK SETUP	TK1	TK2	TK3	TK4
FREQUENCY	790 HZ	430 HZ		
MASTER/SLAVE	MASTER	MASTER		
RX ADJUST	100	100		
TCA	*	*		
DIRECTION MODE	BI	BI		
LIA	*	*		
ADVANCED APR. CAL	INACTIVE	INACTIVE		
NBS COMP RX	*	*		
TRK ISLAND ASSIGN	ISL1	ISL2		
APPROACH LENGTH	2000 FT	1100 FT		
AUTO RX	ENABLE	ENABLE		

CROSSING TEST MODE	IXC SETUP	OFF
FLASH RATE	55FPM	
IXC-1	IXC-2	IXC-3
VOLTAGE REGULATION	ON	
L1 VOLTAGE	* 10.0	
L2 VOLTAGE	* 10.0	
GATE 1 DELAY	3 SEC	
GATE 2 DELAY	3 SEC	

ADVANCED TRACK SETUP	TK1	TK2	TK3	TK4
MOTION DET TIMER	MDEN	DISABLE	DISABLE	
MDTT	10 MIN	10 MIN		
FALSE SHUNT	FSEN	DISABLE	DISABLE	
FSRX	NA	NA		
FST	NA	NA		
APPROACH RELEASE	AREN	DISABLE	DISABLE	
ARRX	NA	NA		
ART	NA	NA		
LOS TIME	16 SEC	16 SEC		
IJ-LOS TIME	5 SEC	5 SEC		
NRML_SHHTR_VRSHRT	NRML	* NRML	*	

ISLAND SETUP	TK1	TK2	TK3	TK4
ENABLE/DISABLE	ENABLE	ENABLE		
FREQUENCY	4.0 KHZ	7.1 KHZ		
LOSS OF SHUNT	4 SEC	4 SEC		
FAULT DELAY	1	1		

NOTES:
 * = FIELD ADJUSTMENT
 NA = NOT APPLICABLE

REVISION
 BLOCK

CHANGE FROM TYPICAL Y

SHUNT RECORDS

APPROACH 1 (EAST)	NO SHUNT	100% SHUNT	50% SHUNT	LIA ADDED
	RX	PHASE	RX	PHASE
Track 1	Normal			± 1 to ±9
Standby				
Track 2	Normal			
Standby				
APPROACH 2 (WEST)				
Track 1	Normal			
Standby				
Track 2	Normal			
Standby				

INITIAL VALUES WHEN PLACED IN SERVICE

APPLICATION SOFTWARE INFORMATION	
NAME	*
REV.	1
CHECKSUM	*
CRC	*
CHASSIS ID	*
LOCATED BEHIND UCI-3	
CHASSIS ID	0000000000

① = TAB INTACT
 ● = TAB PUNCHED OUT

EXECUTIVE INFORMATION	
VPM-3	VERSION
CROSSING SOFTWARE	PART NUMBER
*	083024-726



RIO GRANDE PACIFIC
 TECHNOLOGY

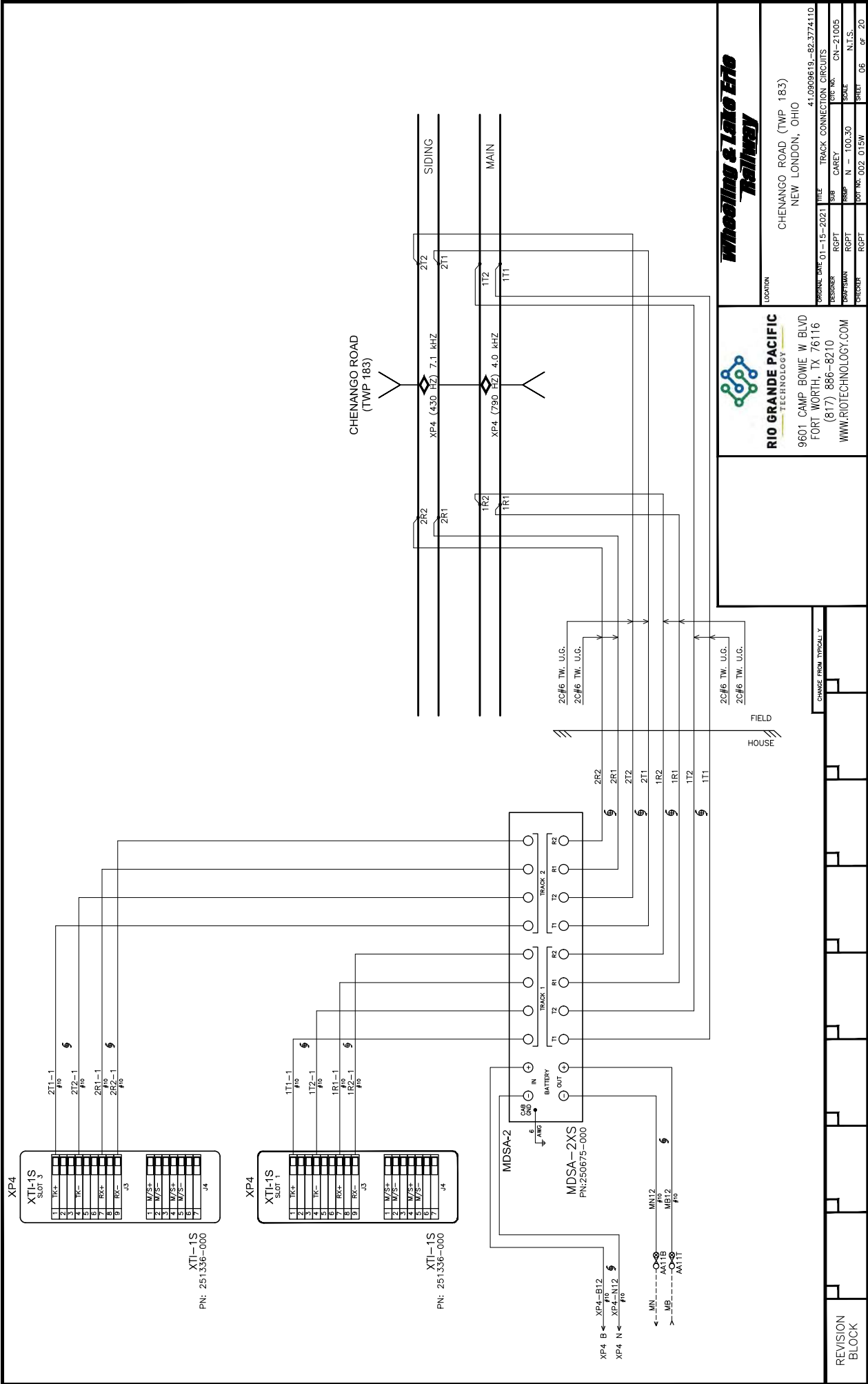
9601 CAMP BOWIE W BLVD
 FORT WORTH, TX 76116
 (817) 886-8210
 WWW.RIOTECHNOLOGY.COM

Wheeling & Lake Erie
 Railway

LOCATION

CHENANGO ROAD (TWP 183)
 NEW LONDON, OHIO

PERSONAL DATE 01-15-2021	TITLE	XP4 SETUP SHEET	41.0909619 - 82.3724110
DESIGNER	SUB	CAREY	UIC NO.
RGPT	RGPT	N	100.30
RGPT	RGPT	002.015W	SCALE
RGPT	RGPT	05	SHEET
RGPT	RGPT	05	OF 20




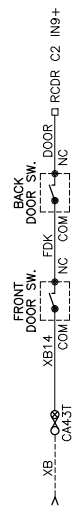
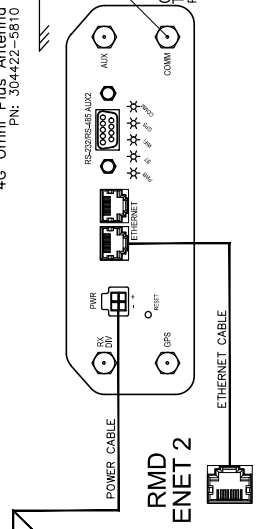
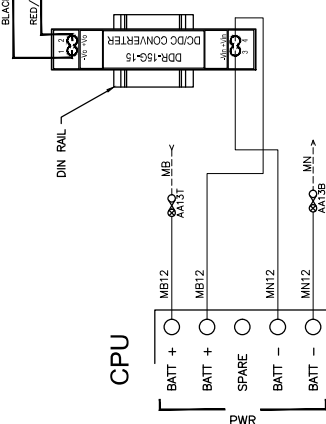
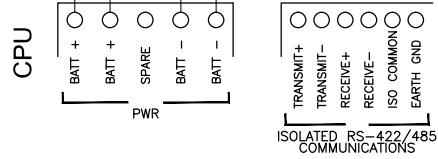
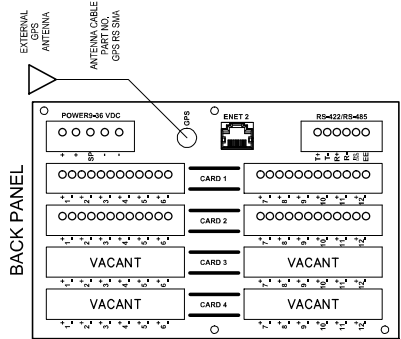
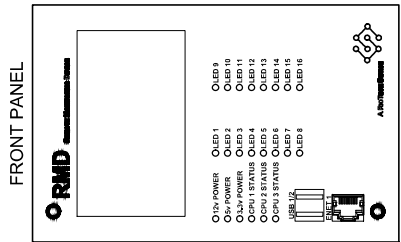
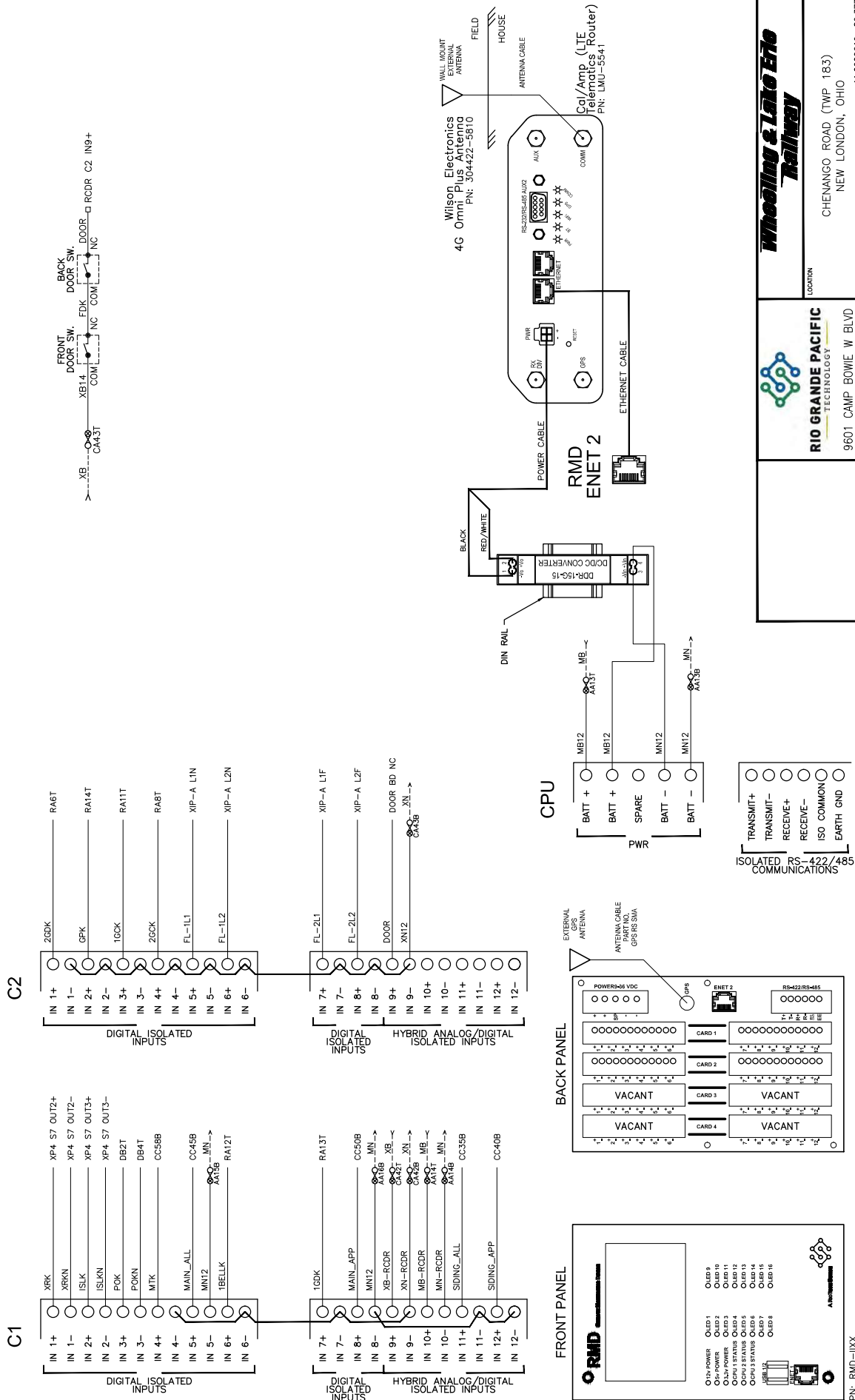
Wheeling & Lake Erie
Railway

RIO GRANDE PACIFIC
TECHNOLOGY
9601 CAMP BOWIE W BLVD
FORT WORTH, TX 76116
(817) 886-8210
WWW.RIOTECHNOLOGY.COM

LOCATION		CHENANGO ROAD (TWP 183) NEW LONDON, OHIO	
PERSONAL DATE	01-15-2021	TITLE	TRACK CONNECTION CIRCUITS
DESIGNER	RGPT	SUB	CAREY
DATE	01-15-2021	TRAC	CN-21005
PROJECT	RGPT	TEMP	N - 100.30
CHECKER	RGPT	SCALE	N.I.S.
		SHEET	06
		OF	20

CHANGES FROM TYPICAL Y

REVISION
BLOCK



RIO GRANDE PACIFIC
TECHNOLOGY

9601 CAMP BOWIE W BLVD
FORT WORTH, TX 76116
(817) 886-8210
WWW.RIOTECHNOLOGY.COM

LOCATION

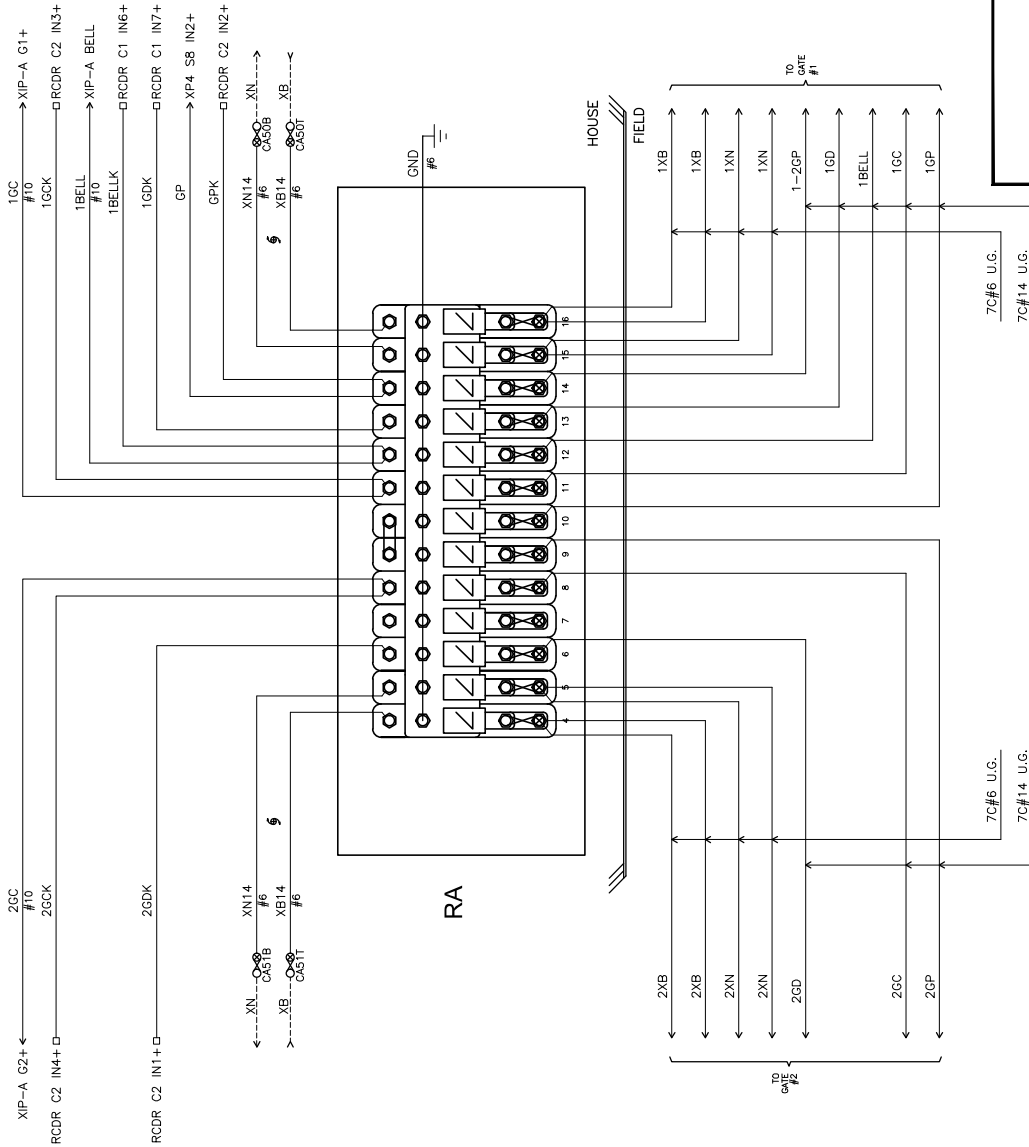
CHENANGO ROAD (TWP 183)
NEW LONDON, OHIO

ORIGINAL DATE 01-15-2021

TIME RECORDER 41.0909619--82.3774110

LESSORS	SUB	RECORD	C/S NO.
RGPT	CAREY		CN-21005
DEPT/PLAN	WARP N - 100.30		STATE
RGPT			N.T.S.
DECKER	DOT NO. 002 015W		SOB
			OB
			OF
			20

[illegible]



NOTES: ALL WIRING THIS SHEET #16 AWG
UNLESS NOTED OTHERWISE.



RIO GRANDE PACIFIC
TECHNOLOGY
9601 CAMP BOWIE W BLVD
FORT WORTH, TX 76116
(817) 886-8210
WWW.RIOTECHNOLOGY.COM

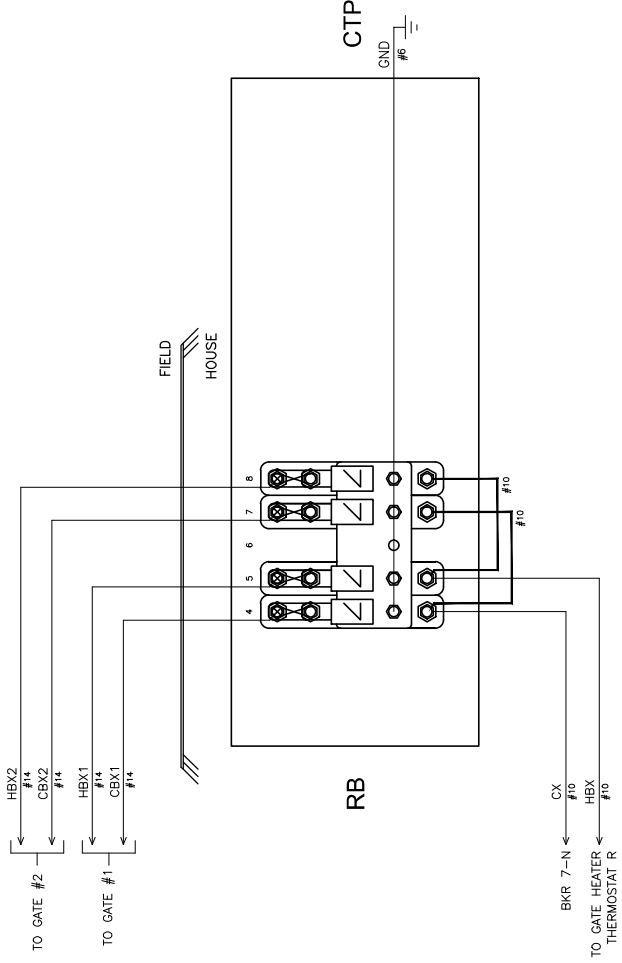
Wheeling & Lake Erie
Railway

LOCATION
CHENANGO ROAD (TWP 183)
NEW LONDON, OHIO

PERSONAL DATE	01-15-2021	TITLE	ARRESTOR PANEL	41.0909619, -82.3724110
DESIGNER	RGPT	SUB	CAREY	TOC NO.
DRAWN	RGPT	TEMP	N - 100.30	CN-21005
CHECKER	RGPT	DATE	N.J.S.	SCALE
		SHEET	11	OF 20

CHANGE FROM TYPICAL N

REVISION
BLOCK



LEGEND:



NOTES: ALL WIRING THIS SHEET #16 AWG
UNLESS NOTED OTHERWISE.

RIO GRANDE PACIFIC
TECHNOLOGY

9601 CAMP BOWIE W BLVD
FORT WORTH, TX 76116
(817) 886-8210
WWW.RIOTECHNOLOGY.COM

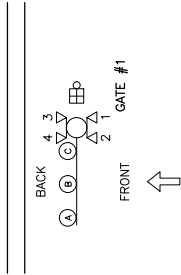
Wheeling & Lake Erie
Railway

CHENANGO ROAD (TWP 183)
NEW LONDON, OHIO

DESIGNER	RGPT	TITLE	41.0909619, -82.3774110
CHECKER	RGPT	SUB	CABLE TERMINATION PANEL
DATE	RGPT	PROJECT	CAREY
SCALE	RGPT	DATE	CN-21005
SHEET	RGPT	DATE	N.I.S.
10	RGPT	DATE	10
20	RGPT	DATE	20

CHANGE FROM TYPICAL N

REVISION
BLOCK



 **RIO GRANDE PACIFIC**
TECHNOLOGY

9601 CAMP BOWIE W BLVD
FORT WORTH, TX 76116
(817) 886-8210
WWW.RIOTECHNOLOGY.COM

Wheeling & Lake Erie Railway

LOCATION

CHENANGO ROAD (TWP 183)
NEW LONDON, OHIO

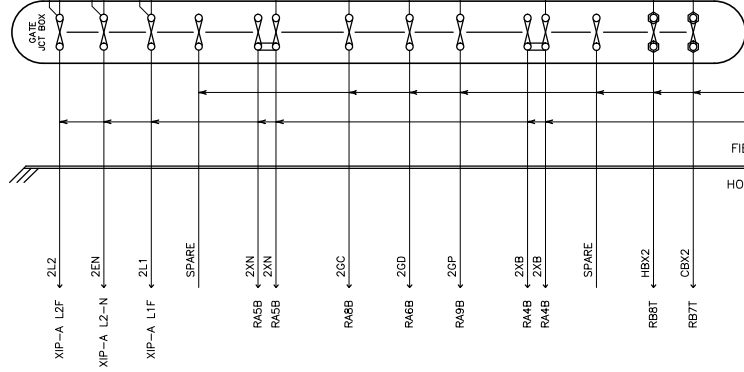
ORIGINATOR	DATE	01-15-2021	TITLE	GATE #1 LIGHTS (NEAR SIDE)	41.0909619, -82.3774110
DESIGNER	RGPT	SRIP	CAREY	CN-21005	
DRAFTSMAN	RGPT	GROUP	N - 100.30	SCALE	N.T.S.
CHECKER	RGPT	DOT NO.	002 015W	SHEET	12 OF 20

CHANGE FROM TYPICAL: Y

REVISION
BLOCK

TO MAST MOUNTED FLASHERS
(SHEET 14 FOR DETAILS)

2L2-1
2EN-1
2L1-1



CONTACT	CLOSED	FUNCTION	TENSION
1B	75-90 DEG.	POWER DOWN	18-28 OZ.
1F	0-70 DEG.	SNUB DOWN	18-28 OZ.
2	0-86 DEG.	POWER UP	18-28 OZ.
3	0-10 DEG.	GATE DOWN	16-24 OZ.
4	82-90 DEG.	GATE CLEAR	16-24 OZ.
5	10-90 DEG.	BELL	16-24 OZ.
6	SPARE	SPARE	16-24 OZ.
7	0-2 DEG.	SNUB	16-24 OZ.

LEGEND:

○ = INSULATED NUT

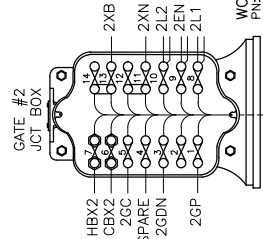
NOTES:

* BELL TO BE ELECTRONIC.

X → = INTERNAL GATE WIRES THAT SHARE ELECTRICAL CONNECTIONS WITH OTHER WIRES THAT ARE ASSIGNED THE SAME NUMBER.

REFER TO SHEET 14 FOR GATE ARM LIGHT WIRING

ADD BOLD STRAPS AND JUMPERS AS SHOWN.



WCH Junction box base
PN: 2149-A-139

→ CABLES TO HOUSE



RIO GRANDE PACIFIC
TECHNOLOGY

9601 CAMP BOWIE W BLVD
FORT WORTH, TX 76116
(817) 886-8210
WWW.RIOTECHNOLOGY.COM

LOCATION

CHENANGO ROAD (TWP 18.3)
NEW LONDON, OHIO

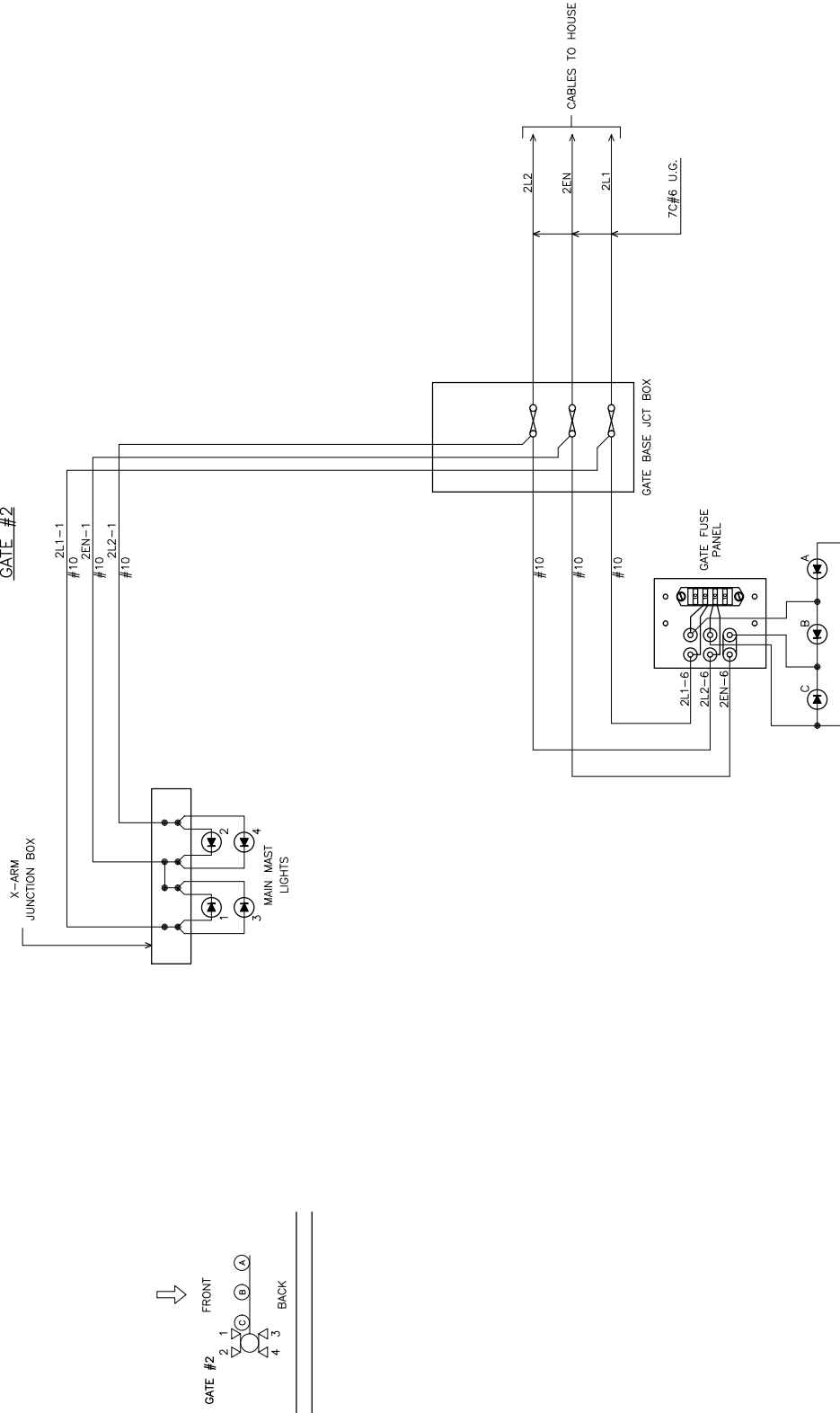
Wheeling & Lake Erie
Railway

PERSONAL DATE 01-15-2021	TITLE	GATE #2 MECHANISM (FAR SIDE)	41.0909619, -82.3724110
DESIGNER	RGPT	CAREY	UIC NO. CN-21005
CHECKED	RGPT	N	SCALE N.T.S.
DATE	RGPT	002.015W	SHEET 13 OF 20

REVISION
BLOCK

CHANGE FROM TYPICAL Y

GATE #2



NOTE:
 * USE ATC 10 AMP FUSES ONLY
 (LED SYMBOL) IS LED SYMBOL ONLY. INSTALL ACCORDING TO MANUFACTURER'S INSTRUCTIONS.



RIO GRANDE PACIFIC
 TECHNOLOGY
 9601 CAMP BOWIE W BLVD
 FORT WORTH, TX 76116
 (817) 886-8210
 WWW.RIOTECHNOLOGY.COM

Wheeling & Lake Erie
 Railway

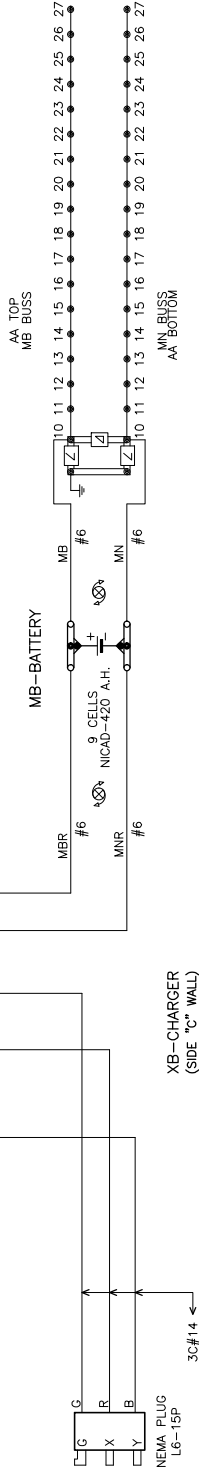
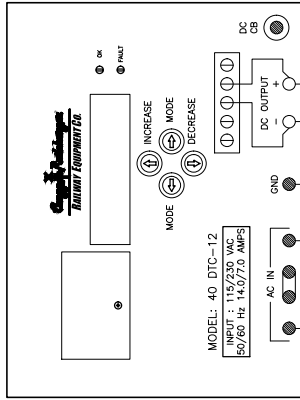
LOCATION
 CHENANGO ROAD (TWP 183)
 NEW LONDON, OHIO

CHANGE FROM TYPICAL Y

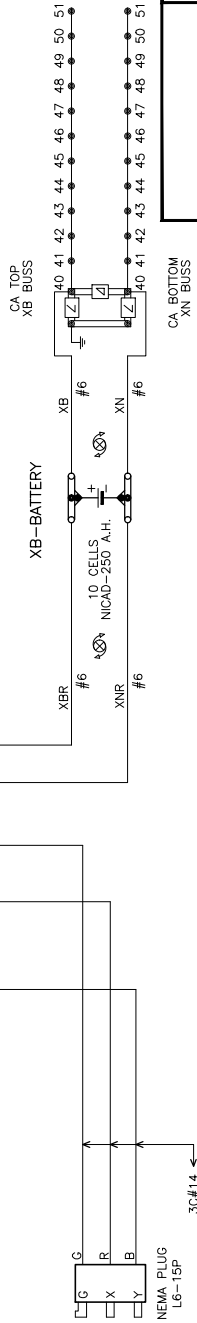
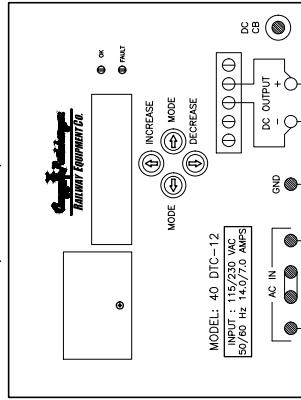
PERSONAL DATE	01-15-2021	TITLE	GATE #2 LIGHTS (FAR SIDE)	41.0909619, -82.3774110
DESIGNER	RGPT	SUB	CAREY	DATE
CHECKED	RGPT	SCALE	N - 100.30	CN-21005
DATE	002.015W	SHEET	14	N.I.S.
OF	20			

REVISION
 BLOCK

MB-CHARGER
(SIDE "A" WALL)



XB-CHARGER
(SIDE "C" WALL)



BASIC SETUP			
NO.	ABBREVIATION	DEFAULT SETTING	DESIRED SETTING
1	PASSWORD	5	5
2	USER LEVEL	BASIC	BASIC
3	BATTERY TYPE	LEAD ACID OR NI-CAD	NI-CAD
4	NUMBER OF CELLS	9	10
5	VOLTS PER CELL	—	1.42

BATTERY BUSS DETAILS

27	SPARE	27	SPARE
26	SPARE	26	SPARE
25	SPARE	25	SPARE
24	SPARE	24	SPARE
23	SPARE	23	SPARE
22	SPARE	22	SPARE
21	XP4 S7 IN4-	21	XP4 S7 IN4-
20	XP4 S7 IN3-	20	XP4 S7 IN3-
19	XP4 S7 IN2-	19	XP4 S7 IN2-
18	XP4 S7 IN1-	18	XP4 S7 IN1-
17	DB3T	17	DB3T
16	RCDR C1 IN8-	16	RCDR C1 IN8-
15	RCDR C1 IN5-	15	RCDR C1 IN5-
14	RCDR C1 IN10-	14	RCDR C1 IN10-
13	RCDR CPU BATT+	13	RCDR CPU BATT+
12	SPARE	12	SPARE
11	MDSA-2 B+	11	MDSA-2 B+
10	MN BATT+	10	MN BATT+
AA	MB BUSS (TOP)	AA	MN BUSS (BOTTOM)

BATTERY BUSS DETAILS

51	RAST	51	RAST
50	RA15T	50	RA15T
49	XIP-A N	49	XIP-A N
48	SPARE	48	SPARE
47	SPARE	47	SPARE
46	IXC-A J5 IN2-	46	IXC-A J5 IN2-
45	XIP-A G1-	45	XIP-A G1-
44	XP4 S8 IN4-	44	XP4 S8 IN4-
43	RCDR C2 IN9-	43	RCDR C2 IN9-
42	RCDR C1 IN9-	42	RCDR C1 IN9-
41	XIP-A L1B-N	41	XIP-A L1B-N
40	XN BATT+	40	XN BATT+
CA	XB BUSS (TOP)	CA	XN BUSS (BOTTOM)



RIO GRANDE PACIFIC
TECHNOLOGY
9601 CAMP BOWIE W BLVD
FORT WORTH, TX 76116
(817) 886-8210
WWW.RIOTECHNOLOGY.COM

LOCATION

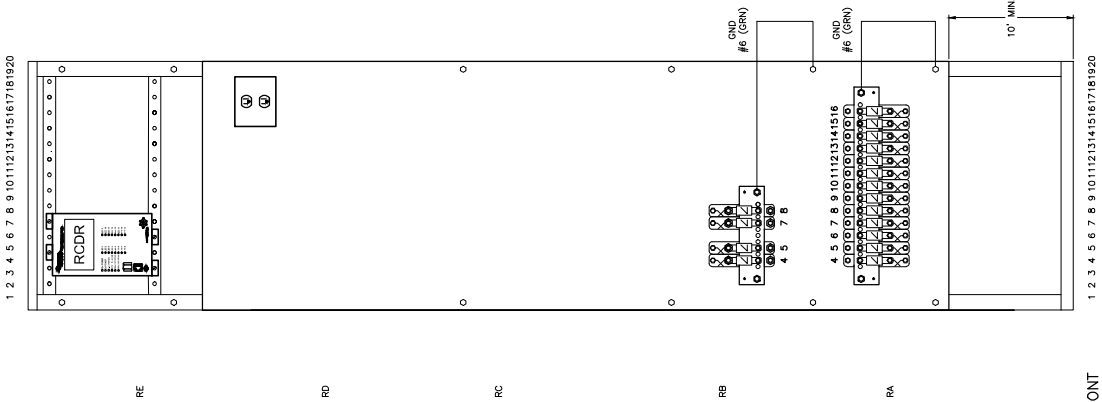
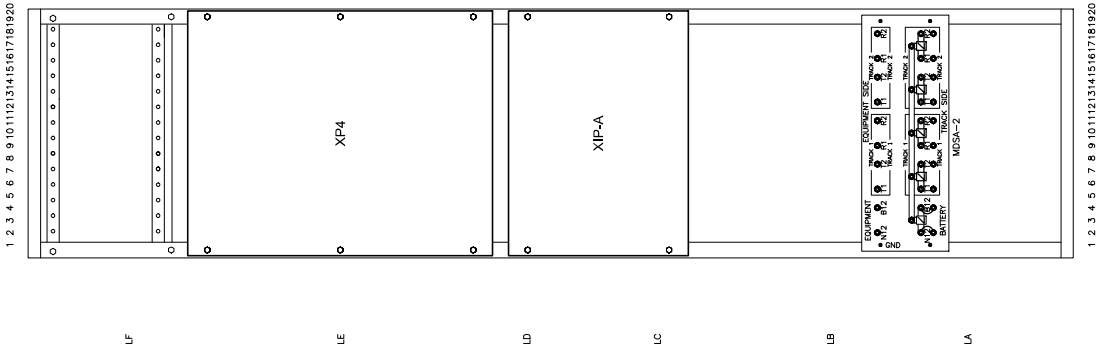
CHENANGO ROAD (TWP 183)
NEW LONDON, OHIO

Wheeling & Lake Erie
Railway

CHARGE FROM TYPICAL Y

REVISION
BLOCK

PERSONAL DATE 01-15-2021	TITLE	41.0909619, -82.3774110
DESIGNER RGPT	SUB	CAREY
DRAWNMAN RGPT	TEMP	N - 100.30
CHECKER RGPT	SCALE	1"=2'
	SHEET	15 OF 20



SIDE 'B' FRONT

REVISION BLOCK		CHANGE FROM PREVIOUS	
1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20

**Wheeling & Lake Erie
Railway**

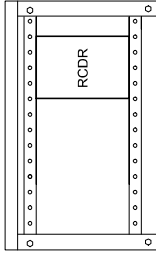
RIO GRANDE PACIFIC
TECHNOLOGY
9601 CAMP BOWIE W BLVD
FORT WORTH, TX 76116
(817) 886-8210
WWW.RIOTECHNOLOGY.COM

LOCATION
CHENANGO ROAD (TWP 18.3)
NEW LONDON, OHIO

PERSONAL DATE	01-15-2021	TITLE	PACK FRONT VIEW	41.0909619, -82.3724110
DESIGNER	RGPT	SUB	CAREY	
DRAWN	RGPT	TEMP	N	100.30
CHECKER	RGPT	SCALE	1"=2'	
		SHEET	17	OF 20

BACK OF RIGHT SIDE

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20



RFB

REB

ROB

RCB

REB

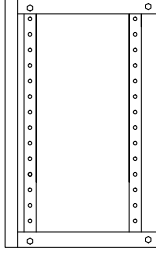
RAB



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

BACK OF LEFT SIDE

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20



LFB

LEB

LOB

LCB

LEB

LAB

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

SIDE 'B' BACK

CHANGE FROM TOPICAL Y

REVISION
BLOCK



RIO GRANDE PACIFIC
TECHNOLOGY

9601 CAMP BOWIE W BLVD
FORT WORTH, TX 76116
(817) 886-8210
WWW.RIOTECHNOLOGY.COM

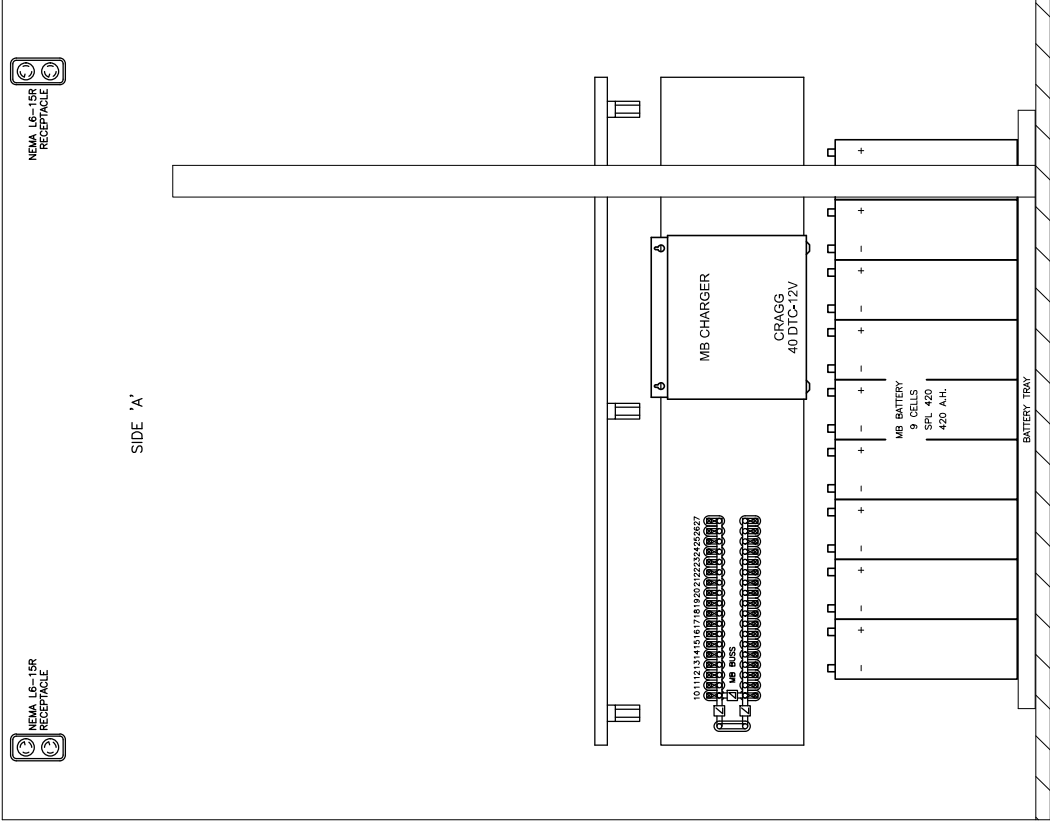
**Wheeling & Lake Erie
Railway**

LOCATION

CHENANGO ROAD (TWP 18.3)
NEW LONDON, OHIO

PERSONAL DATE	01-15-2021	TITLE	PACK BACK VIEW	41.0909619, -82.3724110
DESIGNER	RGPT	SUB	CAREY	
DRAWN	RGPT	TEMP	N - 100.30	CN-21005
CHECKER	RGPT	SCALE	1"=2'	
		SHEET	18	OF 20

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65



AD

AC

AB

AA

**Wheeling & Lake Erie
Railway**

**RIO GRANDE PACIFIC
TECHNOLOGY**

9601 CAMP BOWIE W BLVD
FORT WORTH, TX 76116
(817) 886-8210
WWW.RIOTECHNOLOGY.COM

LOCATION

CHENANGO ROAD (TWP 183)
NEW LONDON, OHIO

PERSONAL DATE	01-15-2021	TITLE	SIDE "A"	41.0909619, -82.3774110
DESIGNER	RGPT	SUB	CAREY	DATE NO.
DRAWN	RGPT	TEMP	N - 100.30	CN-21005
CHECKER	RGPT	DATE	19	1"=2'
				SHEET
				OF 20

CHANGE FROM TYPICAL N

REVISION
BLOCK



Rail Development Commission

Mike DeWine, Governor
Jon Husted, Lt. Governor

Scott Corbitt, Chair

January 15, 2021

Mr. Tim Andrews
Wheeling & Lake Erie Railway
100 East First Street
Brewster, Ohio 44613

RE: Huron County, TR183/Chenango Rd.
DOT#002-015W, PID #114047

Dear Mr. Andrews:

A diagnostic review was held at the above grade crossing on November 6, 2019. The crossing has been recommended for the installation of flashing lights and roadway gates.

Wheeling & Lake Erie Railway (WE) is authorized to proceed with the site plans and cost estimates 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 8), if any, made by the team about 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, Rail Division, PUCO
Jill Henry, Rail Specialist, PUCO



Heather Hamilton, ORDC

ORDC (file)

Attachments: 3 (diagnostic review form, letter agreement, purchase order)



Rail Development Commission

Mike DeWine, Governor
Jon Husted, Lt. Governor

Scott Corbitt, Chair

November 20, 2020

Wheeling & Lake Erie Railroad
Mr. Tim Andrews
Signals & Communications Supervisor
100 E. First Street
Brewster, Ohio 44613

Subject: Grade Crossing Surface Reconstruction
Huron County, TR 183/Chenango Rd., DOT# 002015W, PID 114047

Dear Mr. Andrews:

A diagnostic review was conducted at the subject grade crossing on 11/16/2019. As a result of the review, the devices will be upgraded to automatic flashing lights and roadway gates.

The project shall be completed in compliance with Agreements No. 0001-A, dated September 17, 1990, entered into by the State of Ohio and Wheeling & Lake Erie Railroad (WE) and incorporated as if fully rewritten herein. The 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 WE 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 projects. WE 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 WE prior to ORDC issuing a PE authorization. PE will be submitted by WE to ORDC within ninety (90) days or other time specified by ORDC in the PE authorization. Construction will not be commenced by WE prior to ORDC issuing a construction authorization. Construction will be completed by WE within nine (9) months or other time specified in the time specified by ORDC in the construction authorization.



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

Wheeling & Lake Erie Railroad:

By: 

Title: SAC Supervisor


Date: 11-30-20

Crossing at a glance: Rank 1815


ORDC Notes:

Please Sign In

James Tucker Project Manager ORDC

Name	Title	Organization	Signature
	614-398-6897	james.tucker@dot.ohio.gov	
	Phone Number	Email	Signature

Cathy Stout Safety Program Manager ORDC

Name	Title	Organization	Signature
	614-971-8470	catherine.stout@dot.ohio.gov	
	Phone Number	Email	Signature


Jerry Gibson PUCO

Name	Title	Organization	Signature
	419-234-8416	jerry.gibson@puco.ohio.gov	
	Phone Number	Email	Signature

Tim Andrews Wheeling & Lake Erie

Name	Title	Organization	Signature
	330-417-5541	tandrews@wlerwy.com	
	Phone Number	Email	Signature

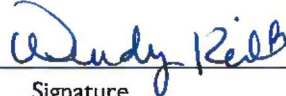
Mark Fridenstine Huron County

Name	Title	Organization	Signature
	419 541 1283	mfridenstine@huroncountyengineer.org	
	Phone Number	Email	Signature

Phil Schwinn New London Township

Name	Title	Organization	Signature
	419-681-1007		
	Phone Number	Email	Signature

Wendy Kidd Trustee New London Twp.

Name	Title	Organization	Signature
	419-681-3960	baikidd@hotmail.com	
	Phone Number	Email	Signature

Name Title Organization

Phone Number Email Signature

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

Date: 11/6/2019

Location Data			
Street or Road Name: TR 183 / Chenango Road			
County: Huron	Township: New London Township	US DOT No.:	002015W
City (in or near): New London	Railroad Name: WE	RR Milepost:	110.26
Safety Data (Obtain crash reports, if possible)			
	Initial Information (from database)	Revised	
Number & dates of vehicle crashes in previous 5 years:	0		
Number & dates of pedestrian/bicycle crashes in previous 5 years:			
Hazard Ranking: 1815	Date Run: 09/19/2019		

Existing Traffic Control Devices			
Type of Warning Devices	Installed?		Quantity/Comments
HIGHWAY			
Advance Warning Signs (condition?)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	2
'Stop' Signs	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	2
'Stop Ahead' Signs	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Pavement Markings (condition?)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	NEEDS REFRESHED
Dynamic Envelope Markings (condition?)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Illumination	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
'No Turn' Signs (highway/passive)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Barriers/fencing (pedestrian/bicycle)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
LOOK Sign	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Do Not Stop On Track Sign	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
RAILROAD			
Crossbucks	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	2
Crossbucks – assembly with Stop	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	2
Crossbucks – assembly with Yield	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Mast-Mounted Flashing Lights	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Cantilever Flashing Lights	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Number: Length:
Side Lights	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
LED or Incandescent Lights? Size?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Automatic Gates	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Number: Length:
Bells	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Number:
Sidewalk/Pedestrian Gate Arms	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Number: Length:
'No Turn' Signs (railroad/active)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Is crossing flagged by train crew?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
OTHER	<input type="checkbox"/> Yes	<input type="checkbox"/> 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	8	8
<1 per day? Trains per week	-	
Day thru trains	4	
Night thru trains	8	4
Switching	2	
Total number of tracks	4	2
Number of main tracks	1	
Number of other tracks	8	1 - Hiles siding
Maximum train speed	40	40 main / 20 siding
Typical train speed	30-40	
Amtrak	-	
Are there other track(s) crossing this same roadway within 100ft of this crossing? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
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? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Can one train block the motorists' view of another train at the crossing? <input checked="" type="checkbox"/> Yes (explain below) <input type="checkbox"/> No		
Can one or more tracks be eliminated through the crossings? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Comments:		
Circuitry: <input type="checkbox"/> Constant Warning Time <input type="checkbox"/> Motion Detection <input type="checkbox"/> AFO <input type="checkbox"/> PTC <input type="checkbox"/> DC <input type="checkbox"/> Other _____		

Roadway Data		
Local Highway Authority: New London Township		
Roadway Characteristics	Initial Information (from database)	Revised
Average Daily Traffic	127	
Highway Paved	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Roadway Surface: <input checked="" type="checkbox"/> Blacktop <input type="checkbox"/> Gravel <input type="checkbox"/> Concrete Other _____		
Roadway width (paved/travelled way): <u>22</u> ft		
Number of Highway Lanes	2	
Urban or Rural	Rural - Local	
Vehicle Speed: <u>n/a</u> MPH	<u>55</u>	
School Bus Operation: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Amount <u>2</u>		
Location of nearby schools: <u>2 miles New London</u>		
Hazardous Materials Trucks: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Amount (from FRA) <u>1%</u> LHA verified/changed?		
Shoulders: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Is the Shoulder Surfaced? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, shoulder width: <u>1</u> ft.		
Is there existing guardrail along the roadway in crossing vicinity? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Crossing Angle <input type="checkbox"/> 0-29° <input type="checkbox"/> 30-59° <input checked="" type="checkbox"/> 60-90° Measured in _____ Quadrant?		
Quadrant <u>SW</u> Curb & Gutter:	Quadrant <u>NE</u> Curb & Gutter:	
<input type="checkbox"/> Functional (Curb height = 4" or more)	<input type="checkbox"/> Functional (Curb height = 4" or more)	
<input type="checkbox"/> Non-functional (Curb height = less than 4")	<input type="checkbox"/> Non-functional (Curb height = less than 4")	
<input checked="" type="checkbox"/> None	<input checked="" type="checkbox"/> None	
Is there a nearby intersection that could cause queuing over the crossing? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
If yes, distance _____		
Is this intersection signalized? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Are there signals currently interconnected with the existing crossing warning devices? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Is there a 'Do Not Stop on Track' sign? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
If yes:		
Improvement type _____ Lead Agency _____ Timeline/completion _____		

Pedestrian & Bicycle Data

Regular pedestrian usage: ☐ Yes ☒ No Volumes: ☐ Occasional ☐ <20 ☐ 20-60 ☐ >60

Is sidewalk present in the approach? ☐ Yes ☒ No Quadrants:

Does crossing surface accommodate pedestrians? ☐ Yes ☒ No

Both sides of roadway? ☐ Yes ☒ No If no, which side is paved?

Pedestrian generators in close proximity (e.g. schools, sports/entertainment venues)? ☐ Yes ☒ No

Comments:

Regular bicycle usage: ☐ Yes ☒ 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:

Utility Information

Is commercial power available? ☒ Yes ☐ No

Utility Provider (Company Name) Firelands Electric

Nearest Available Power Source 50' South of crossing

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

Sight Preview (REFER TO TABLES)

If non-gated crossing, is clearing sight distance adequate in all quadrants? (See Table 1) ☒ Yes ☐ No 960'

Is stopping sight distance adequate? (See Table 2) ☒ Yes ☐ No If no, which quadrant? 570'

When considering recommendations for bicycle treatments:

Bicycle sight distance adequate? ☒ Yes ☐ No If no, which quadrant? 470'

When considering recommendations for pedestrian treatments:

Pedestrian sight distance adequate? ☒ Yes ☐ No If no, which quadrant? 710'

Potential Red Flags / Project Challenges

Traffic Signal Preemption (include traffic signal intersection name and LHA with jurisdiction over traffic signal, if known):

N/A

Crossing Consolidation or Closure:

N/A

Real Estate or ROW:

N/A

Culvert / Drainage / Ballast Conditions:

N/A

Roadway and/or Sidewalks:

N/A

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

switch circuit +

Environmental:

N/A

Utilities:

N/A

Other:

Potential Closure

Is it the consensus of the Diagnostic Review Team that this is a potential closure project? **NO**

Explain reasons:

Diagnostic Team Recommendations

<input type="checkbox"/> No improvements needed	Quadrants Needed
<input checked="" type="checkbox"/> Install/upgrade active devices	
<input type="checkbox"/> Automatic Flashing Lights (AFLS)	
<input type="checkbox"/> AFLS / Cants	
<input checked="" type="checkbox"/> AFLS / Gates	NW + SE
<input type="checkbox"/> AFLS / Gates / Cants	
<input checked="" type="checkbox"/> Bells / number	1
<input type="checkbox"/> Upgrade circuitry / type	
<input type="checkbox"/> Sidelights	
<input checked="" type="checkbox"/> LED Upgrades	12" L.E.D.
<input type="checkbox"/> Guardrail Needed	
<input type="checkbox"/> Install/Replace curb	
<input type="checkbox"/> Bungalow placement & offset from rail & highway	
<input type="checkbox"/> Other (define)	
Comments: I gave the L.H.A. the POCO grant paper to help with pavement markings.	
<input type="checkbox"/> Install/upgrade traffic signal preemption	
Other (define):	


Diagnostic Team Recommendations (cont.)


PEDESTRIAN/BICYCLE Treatments (additional, not included above)


<input type="checkbox"/> Crossing Surface (specify)	<input type="checkbox"/> Sidewalk (specify)
<input type="checkbox"/> Detectable warning surfaces	<input type="checkbox"/> LOOK Sign (R15-8)
<input type="checkbox"/> Stop lines	<input type="checkbox"/> Illumination
<input type="checkbox"/> Dynamic envelop markings	<input type="checkbox"/> Channelization
<input type="checkbox"/> Path delineation	<input type="checkbox"/> Fencing/barriers
<input type="checkbox"/> Other	


Comments:

Acknowledgement of Recommendations (each entity represented at the diagnostic must have at least one signature/initial acknowledgement):


 J. Stank


 Wendy Ridd


 T. Stank


 J. Stank

Field Sketch (optional)

Include utilities as marked by OUPS and LHA; include ROW boundaries as indicated by railroad and LHA.

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 non-gated crossings as viewed from a point 25 feet from centerline of nearest track in the center of whichever travel lane is nearest the direction along track being measured.

Stopping Sight Distances

Highway Vehicle Speed	Distance (dH) Along Roadway 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 ¹	Bicyclist ²	Pedestrian ¹	Bicyclist ²	Pedestrian ¹	Bicyclist ²
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	470	950	540
50	515	910	995	1,120	1,205	590	490	890	580	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

*A single track, 90-degree, level crossing

¹ 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.

² 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.

County: HURON

Route: TR183/CHENANGO RD

DOT#: 002015W

Railroad: WHEELING & LAKE ERIE	LHA: NEW LONDON TOWNSHIP
Surface type <input type="checkbox"/> Rubber seal and asphalt <input type="checkbox"/> Timber and asphalt <input type="checkbox"/> Asphalt <input type="checkbox"/> Composite <input type="checkbox"/> Concrete panel <input type="checkbox"/> Full-depth timber <input type="checkbox"/> Full-depth rubber <input type="checkbox"/> Other _____	Condition <input type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor Comments:
Vehicle type (cars, trucks, etc.): CARS, BUSES AND AG EQUIPMENT	
Surface conditions: Can vehicles cross at posted speed? NO, NEED TO STOP DUE TO STOP SIGNS Local observations/driver behaviors: MOST VEHICLES STOP THEN CROSS, BUT OTHERS IGNORE THE STOP SIGNS ALL TOGETHER Relevant crash history: UNKNOWN	
Do existing surface conditions have negative effects on the current or proposed warning devices? Explain: UNKNOWN, RAIL WITHIN THE CROSSING IS CWR.	
Comments:	

Form completed by: JAMES TUCKER

Date: 10/30/19

This foregoing document was electronically filed with the Public Utilities

Commission of Ohio Docketing Information System on

6/16/2021 12:26:29 PM

in

Case No(s). 21-0704-RR-FED

Summary: Staff Report Filed In the Matter of a Request for the Installation of Active Warning Devices at the Wheeling & Lake Erie Railroad Grade Crossing, DOT# 002-015W, at Chenango Road/TR 183 in Huron County, Ohio. electronically filed by Mrs. Jill A Henry on behalf of PUCO/Rail Division