

Memo

To: Docketing Division

From: Thomas Persinger, Rail Project Specialist, Rail Division

Cc: PUCO Legal Department

Date: 6-23-2022

Re: PUCO Case No. 22-0632-RR-FED- In the Matter of a Request for the Installation of Active Warning Devices at the Wheeling & Lake Erie Railroad Grade Crossing, DOT# 142834X, at CR 281 Walnut St. in Stark County, Ohio.

On March 21st, 2022, the Ohio Rail Development Commission (ORDC) authorized funding for Wheeling & Lake Erie Railroad (WE) to install lights and gates at CR 281 Walnut St. (DOT#142834X) in Stark County, Ohio. The crossing was surveyed, on August 18th, 2021, and was found to warrant the upgrade. The electric utility provider for this crossing is AEP Ohio.

The project will be paid for with federal funds and is actual cost. The plans and estimates for the project in the amount of \$259,474.23 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, OH 44613

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

Village of East Sparta
Mayor Donald Stropki
9353 Main Ave SE
East Sparta, OH 44626

AEP Ohio

**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 J.T.
SUBJECT: Stark County, CR281/Walnut Street.
DOT #142-834X, PID 116043
DATE: June 23, 2022

The Ohio Rail Development Commission (ORDC) established a diagnostic survey at the subject location on August 18, 2021. The Diagnostic Team recommended that the existing warning devices will 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 the 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
PE Authorization
Plan & Estimate
Letter Agreement

c: Jill Henry, Rail Division Chief, PUCO
Thomas Persinger, Rail Specialist, PUCO
ORDC Project Manager (file)



Rail Development Commission

Mike DeWine, Governor
Jon Husted, Lt. Governor

Scott Corbitt, Chair

June 23, 2022

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

RE: Stark County, CR281/Walnut St.
DOT#142-834X, PID# 116043

Dear Mr. Andrews:

The plan dated February 18, 2022, and estimate dated June 7, 2022, 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 \$259,474.23. 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:

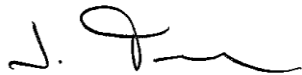
1. WLE's project foreman will furnish written notification five (5) working days prior to the date work will start at the project site to James Tucker, ORDC, email James.tucker@dot.ohio.gov and to the Public Utilities Commission of Ohio at thomas.persinger@puco.ohio.gov. WLE's project foreman will also 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 shall send copies of each partial bill to ORDC.Invoice@dot.ohio.gov. 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.

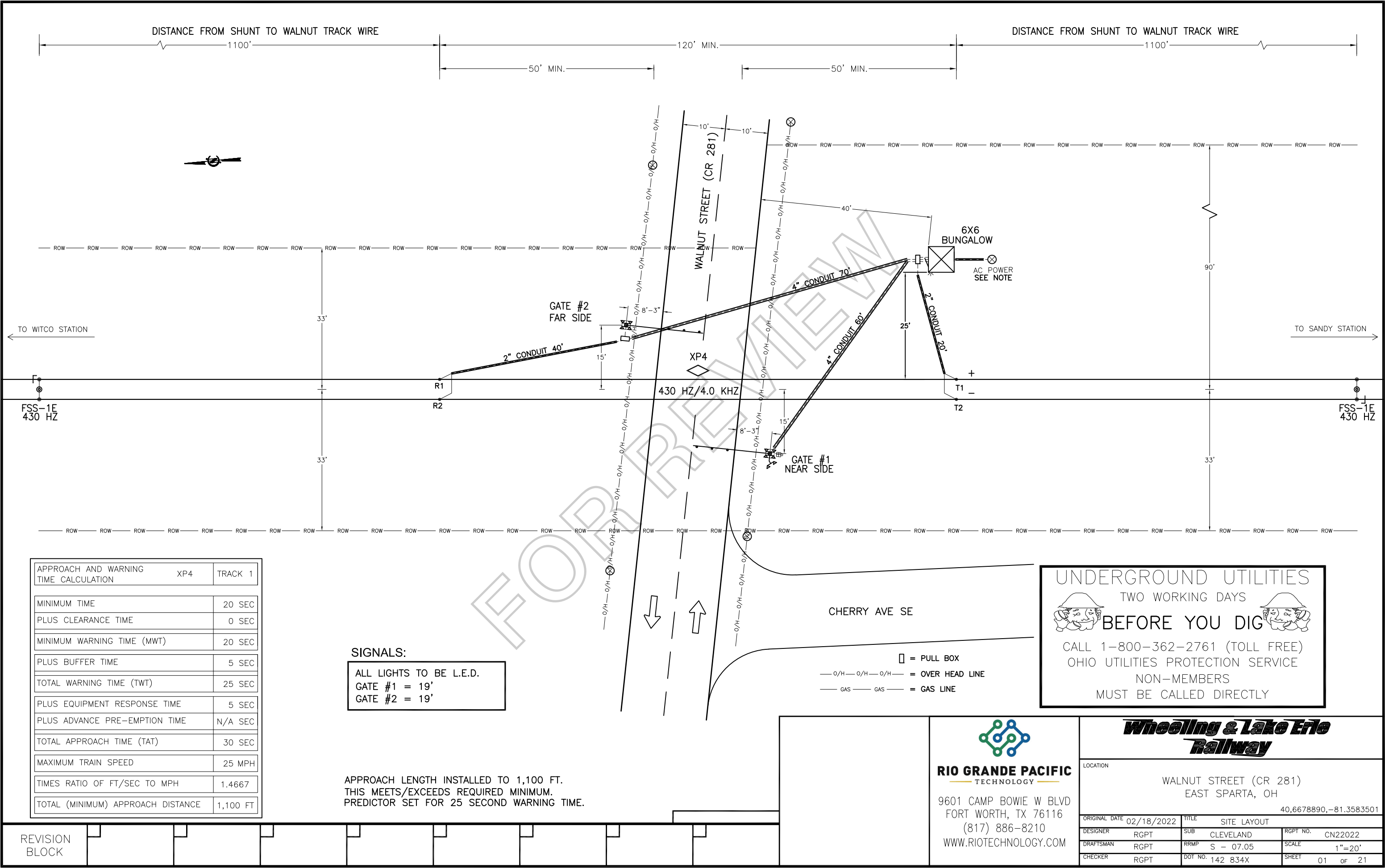
Thank you for your assistance with these matters.

Sincerely,



James Tucker
Project Manager

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



APPROACH AND WARNING TIME CALCULATION	XP4	TRACK 1
MINIMUM TIME	20 SEC	
PLUS CLEARANCE TIME	0 SEC	
MINIMUM WARNING TIME (MWT)	20 SEC	
PLUS BUFFER TIME	5 SEC	
TOTAL WARNING TIME (TWT)	25 SEC	
PLUS EQUIPMENT RESPONSE TIME	5 SEC	
PLUS ADVANCE PRE-EMPTION TIME	N/A SEC	
TOTAL APPROACH TIME (TAT)	30 SEC	
MAXIMUM TRAIN SPEED	25 MPH	
TIMES RATIO OF FT/SEC TO MPH	1.4667	
TOTAL (MINIMUM) APPROACH DISTANCE	1,100 FT	

SIGNALS:
ALL LIGHTS TO BE L.E.D.
GATE #1 = 19'
GATE #2 = 19'

APPROACH LENGTH INSTALLED TO 1,100 FT.
THIS MEETS/EXCEEDS REQUIRED MINIMUM.
PREDICTOR SET FOR 25 SECOND WARNING TIME.

□ = PULL BOX
— O/H — O/H — O/H — = OVER HEAD LINE
— GAS — GAS — = GAS LINE

UNDERGROUND UTILITIES

TWO WORKING DAYS
BEFORE YOU DIG

CALL 1-800-362-2761 (TOLL FREE)
OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS
MUST BE CALLED DIRECTLY



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

Wheeling & Lake Erie
Railway

LOCATION WALNUT STREET (CR 281) EAST SPARTA, OH 40,6678890,-81.3583501			
ORIGINAL DATE	02/18/2022	TITLE	SITE LAYOUT
DESIGNER	RGPT	SUB	CLEVELAND
DRAFTSMAN	RGPT	RRMP	S - 07.05
CHECKER	RGPT	DOT NO.	142 834X
		RGPT NO.	CN22022
		SCALE	1"=20'
		SHEET	01 of 21

REVISION
BLOCK

CONSTRUCTION NOTES

- 1.) INSTALL NEW 6' X 6' BUNGALOW IN SOUTHEAST QUADRANT.
- 2.) INSTALL (2) NEW FLASHING LIGHTS WITH GATES.
- 3.) INSTALL SIDE LIGHTS FOR PARALLEL ROADWAY ON GATE #1.
- 4.) THERE ARE OVERHEAD LINES THAT CONFLICT WITH THE GATE ARMS.
- 5.) 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.
- 6.) 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.

FOR REVIEW

									 RIO GRANDE PACIFIC TECHNOLOGY 9601 CAMP BOWIE W BLVD FORT WORTH, TX 76116 (817) 886-8210 WWW.RIOTECHNOLOGY.COM	<i>Wheeling & Lake Erie</i> <i>Railway</i>				
										LOCATION WALNUT STREET (CR 281) EAST SPARTA, OH 40,6678890,-81.3583501				
REVISION BLOCK									ORIGINAL DATE	02/18/2022	TITLE	CONSTRUCTION NOTES		
									DESIGNER	RGPT	SUB	CLEVELAND	RGPT NO.	CN22022
									DRAFTSMAN	RGPT	RRMP	S - 07.05	SCALE	N.T.S.
									CHECKER	RGPT	DOT NO.	142 834X	SHEET	01A of 21



CROSSING SIGNAL ALIGNMENT

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

ALIGNMENT

FRONT LIGHTS
ADJUST LIGHT UNIT VERTICALLY TO ALIGN AXIS OF BEAM 5FT. 6IN. ABOVE PAVEMENT AT SELECTED ALIGNMENT 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
ADJUST 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.

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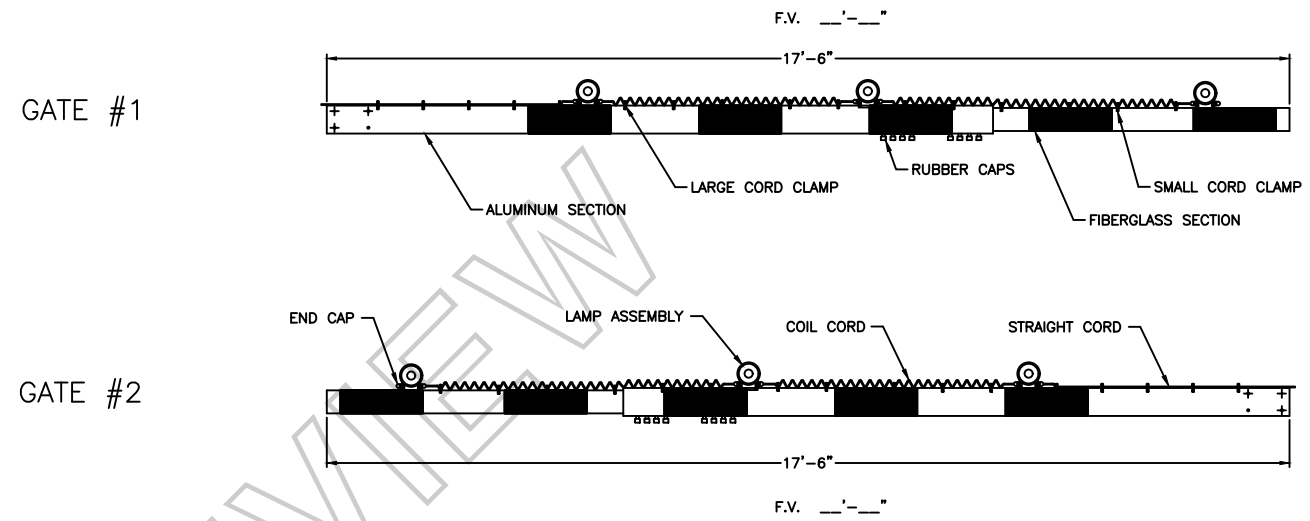
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Railway

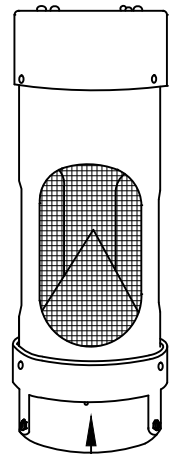
LOCATION		
WALNUT STREET (CR 281) EAST SPARTA, OH 40,6678890,-81.3583501		
ORIGINAL DATE	02/18/2022	TITLE CROSSING SIGNAL ALIGNMENT
DESIGNER	RGPT	SUB CLEVELAND RGPT NO. CN22022
DRAFTSMAN	RGPT	RRMP S - 07.05 SCALE N.T.S.
CHECKER	RGPT	DOT NO. 142 834X SHEET 02 of 21

SITE LAYOUT NOTES

1.) CROSSING IS LOCATED: LATITUDE 40.6678890
LONGITUDE -81.3583501



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



THIS SIDE FACING-
ROADWAY

REVISION
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CHANGE FROM TYPICAL: N



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Wheeling & Lake Erie Railway

LOCATION

WALNUT STREET (CR 281)
EAST SPARTA, OH

40,6678890,-81.3583501

ORIGINAL DATE 02/18/2022

2	TITLE	SITE LAYOUT NOTES
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RGPT NO.	CN22022
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DRAFTSMAN	RGPT
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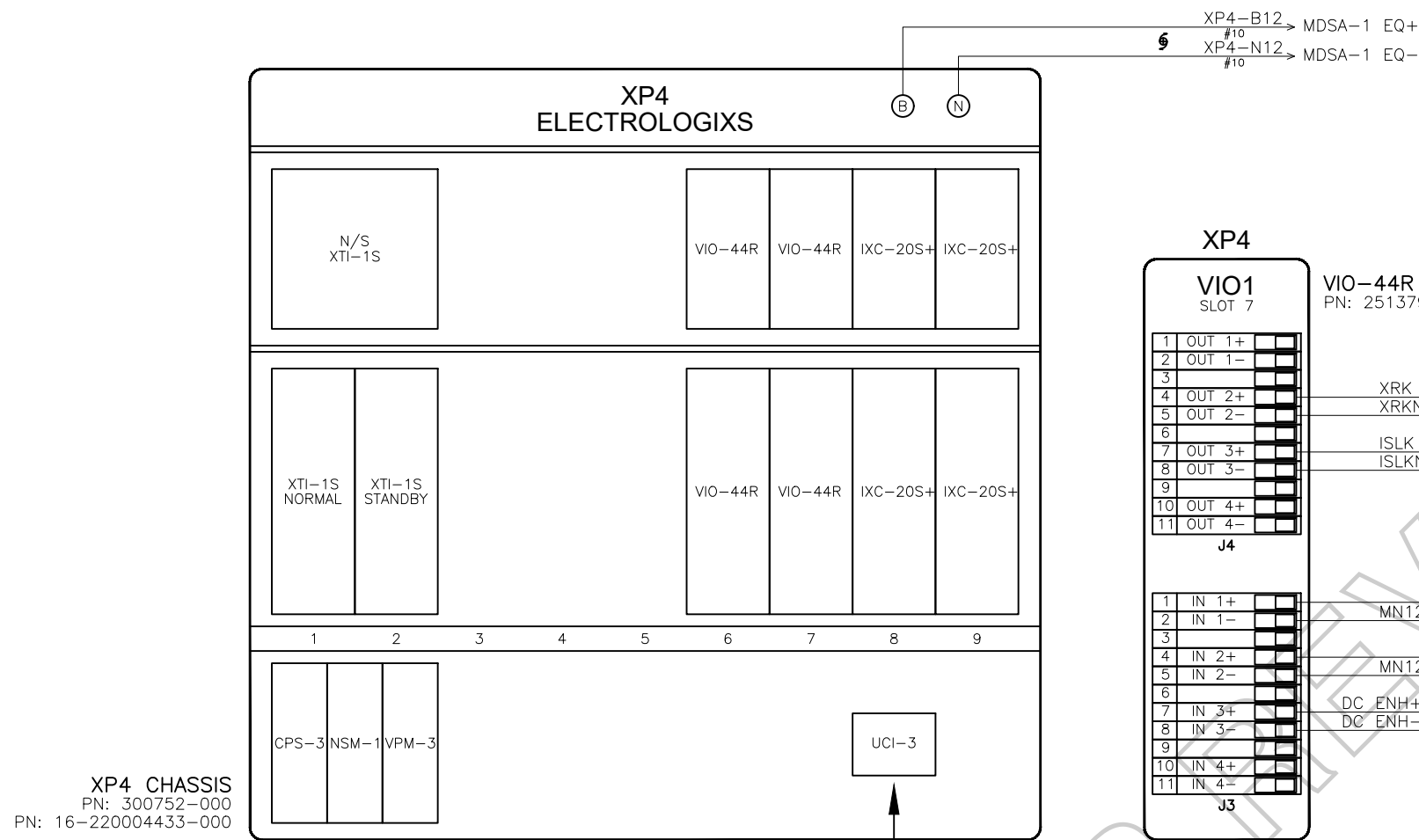
RRMP	S - 07.05
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SCALE	NTS
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CHECKER	RGPT
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DOT NO. 142 834X

SHEET 03 OF 21



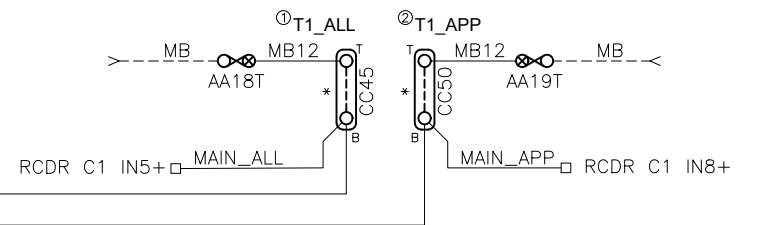
XP4 CHASSIS
PN: 300752-000
PN: 16-220004433-000

CDU-1
PN: 251124-000

CDU-1 IS MOUNTED
IN FRONT OF CPS-3, NSM-1
AND VPM-3 MODULES

CHASSIS ID
IS LOCATED
BEHIND UCI-3

- * PLACE JUMPER TO TAKE
DESIGNATED FUNCTION
OUT OF SERVICE
- ① "ALL" = HIGHWAY GRADE CROSSING
WARNING SYSTEM REMOVED FROM
SERVICE & NON-FUNCTIONAL.
- ② "APP" = ISLAND FUNCTION ONLY.
HIGHWAY GRADE CROSSING WARNING
SYSTEM APPROACHES REMOVED FROM
SERVICE & NON-FUNCTIONAL.



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

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CHANGE FROM TYPICAL: N

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Railway

LOCATION WALNUT STREET (CR 281) EAST SPARTA, OH 40,6678890,-81.3583501		
ORIGINAL DATE 02/18/2022	TITLE XP4/VIO CIRCUITS	
DESIGNER RGPT	SUB CLEVELAND	RGPT NO. CN22022
DRAFTSMAN RGPT	RRMP S - 07.05	SCALE N.T.S.
CHECKER RGPT	DOT NO. 142 834X	SHEET 04 of 21

ADJUSTMENT NAME		MDR1				MDR2			
NAME		HIGHWAY CROSSING				HIGHWAY CROSSING			
WARNING TIME		25 SEC				25 SEC			
CW/MD		CW				CW			
AP TIME		00 SEC				00 SEC			
CWE-WT		00 SEC				00 SEC			
AUX RECOVERY DELAY		05 SEC				05 SEC			
		TK1	TK2	TK3	TK4	TK1	TK2	TK3	TK4
TRACK ASSIGNED		ASSIGN				ASSIGN			
OFFSET DISTANCE		0 FT				0 FT			
MD RESTART		*				*			
SUDDEN SHUNT ZONE		*				*			
POSITIVE START	PSEN	DISABLE				DISABLE			
	PSRX	NA				NA			
	PST	NA				NA			
POST JOINT DETECT	PJEN	DISABLE				DISABLE			
	PJRX	NA				NA			
	PJDT	NA				NA			

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

IXC SETUP				
CROSSING TEST MODE	OFF			
FLASH RATE	55FPM			
	IXC-1	IXC-2	IXC-3	IXC-4
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		
	MDTT	10 MIN		
FALSE SHUNT	FSEN	DISABLE		
	FSRX	NA		
	FST	NA		
APPROACH RELEASE	AREN	DISABLE		
	ARRX	NA		
	ART	NA		
LOS TIME		16 SEC		
IJ-LOS TIME		5 SEC		
NRML_SHHTR_VRSHRT		NRML *		

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

APPROACH 1 (EAST)		NO SHUNT		100% SHUNT		50% SHUNT		LIA ADDED
		RX	PHASE	RX	PHASE	RX	PHASE	± 1 to ±9
Track 1	Normal							
	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
	1 2 3 4 5 6 7 8 ⦿ ⦿ ⦿ ⦿ ⦿ ⦿ ⦿ ⦿ □ □ □ □ □ □ □ □

- ⦿ = TAB INTACT
● = TAB PUNCHED OUT

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

NOTES:
* = FIELD ADJUSTMENT
NA = NOT APPLICABLE

CHANGE FROM TYPICAL: Y

REVISION
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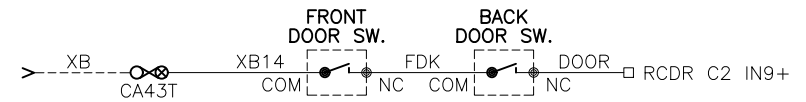
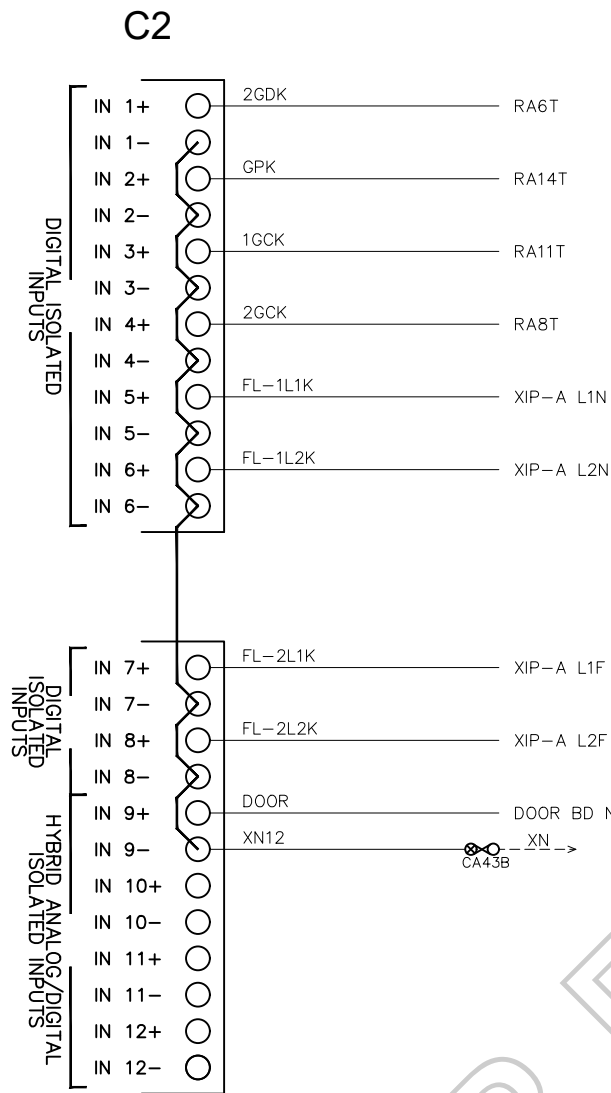
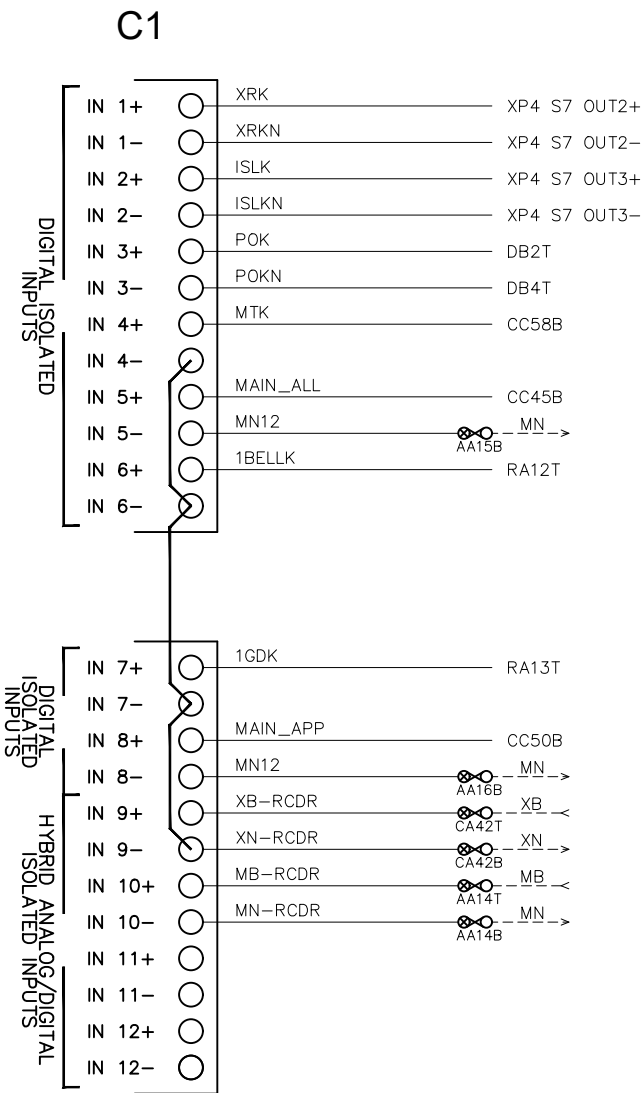


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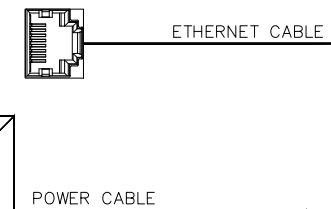
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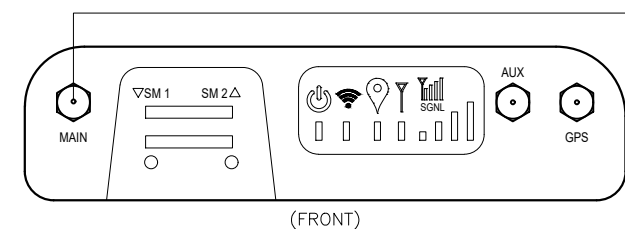
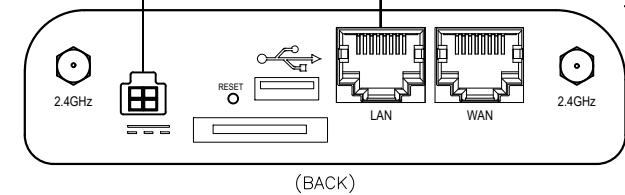
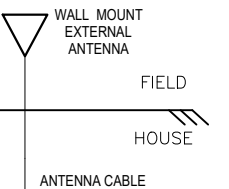
LOCATION		
WALNUT STREET (CR 281) EAST SPARTA, OH		
40,6678890,-81.3583501		
ORIGINAL DATE	02/18/2022	TITLE
		XP4 SETUP SHEET
DESIGNER	RGPT	SUB
		CLEVELAND
DRAFTSMAN	RGPT	RGPT NO.
		CN22022
CHECKER	RGPT	RRMP
		S - 07.05
		SCALE
		N.T.S.
		SHEET
		05 of 21



RMD ENET 2

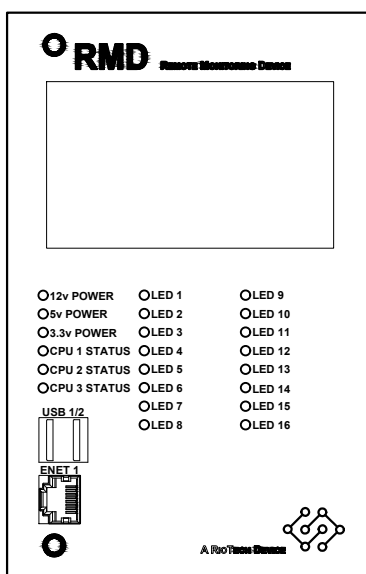


Wilson Electronics
4G Omni Plus Antenna
PN: 304422-5810



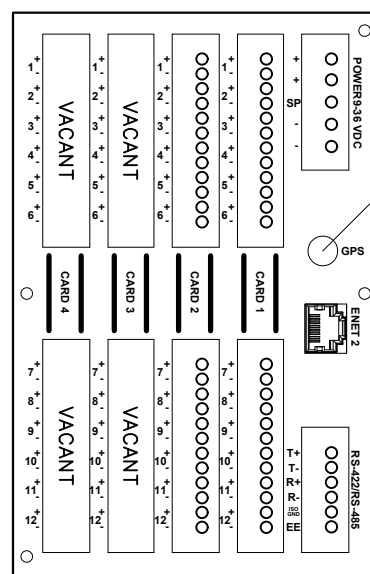
cradlepoint (IoT)
Router no WiFi
PN: TB3-650C150M-NON

FRONT PANEL



PN: RMD-IIXX

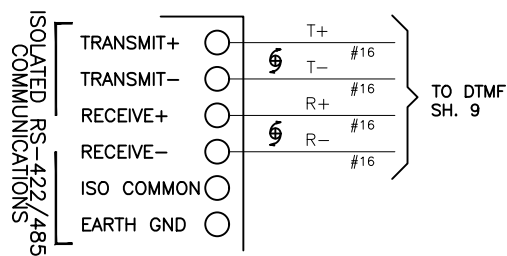
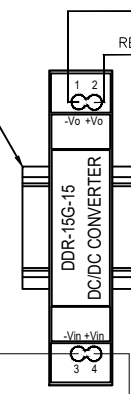
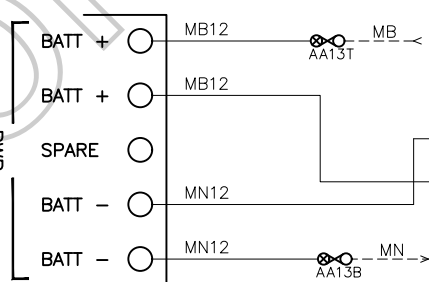
BACK PANEL



EXTERNAL GPS ANTENNA

ANTENNA CABLE PART NO. GPS RS SMA

CPU



CHANGE FROM TYPICAL: N

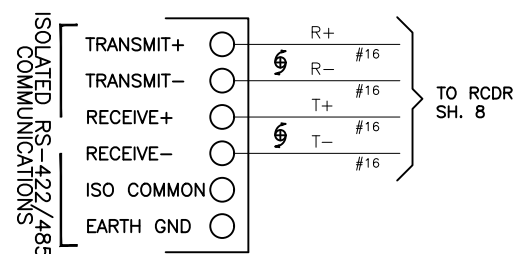
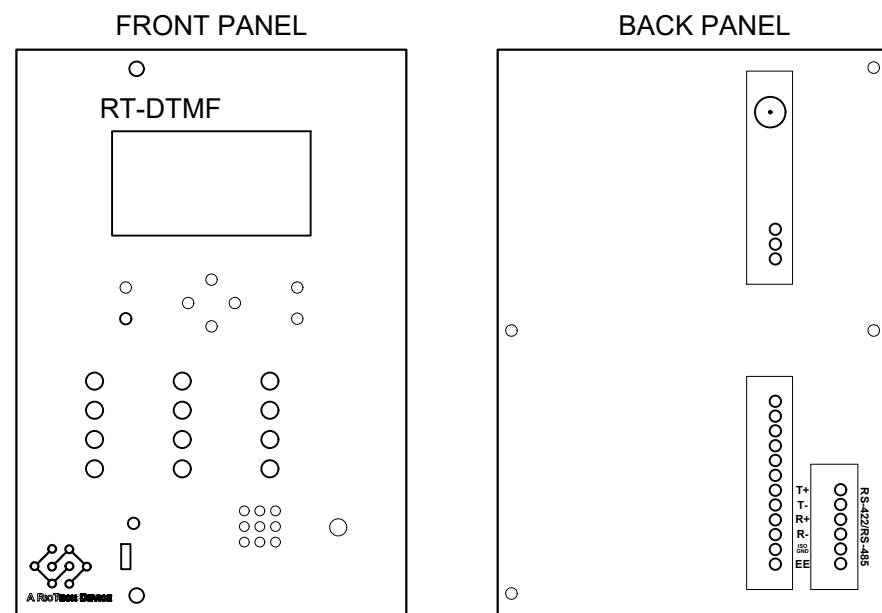
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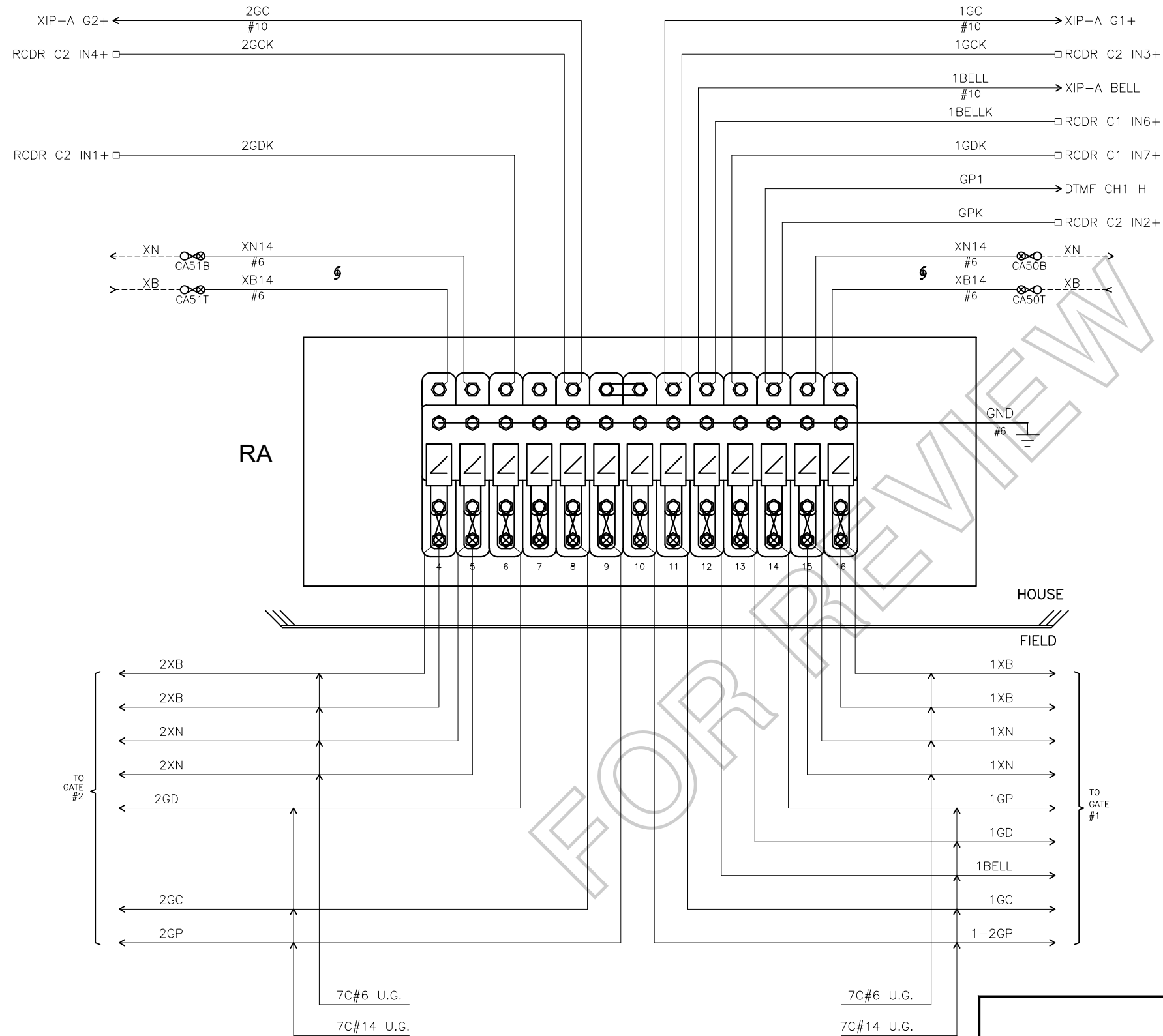
LOCATION WALNUT STREET (CR 281) EAST SPARTA, OH 40,6678890,-81.3583501			
ORIGINAL DATE 02/18/2022	TITLE	RECORDER	
DESIGNER RGPT	SUB CLEVELAND	RGPT NO. CN22022	
DRAFTSMAN RGPT	RRMP S - 07.05	SCALE N.T.S.	
CHECKER RGPT	DOT NO. 142 834X	SHEET 08 of 21	



CHANNEL SETTINGS				
	CHANNEL 1	CHANNEL 2	CHANNEL 3	CHANNEL 4
CHANNEL TIMEOUT	2 min	2 min		
CHANNEL INVERT	NO	NO	NO	NO

PLAYBACK SETTINGS				
	CHANNEL 1	CHANNEL 2	CHANNEL 3	CHANNEL 4
ACTIVATION RESPONSE	CHANNEL 1 ACTIVE	CHANNEL 2 ACTIVE	CHANNEL 3 ACTIVE	CHANNEL 4 ACTIVE
DEACTIVATION RESPONSE	CHANNEL 1 INACTIVE	CHANNEL 2 INACTIVE	CHANNEL 3 INACTIVE	CHANNEL 4 INACTIVE
TIMEOUT RESPONSE	CHANNEL 1 TIMEOUT	CHANNEL 2 TIMEOUT	CHANNEL 3 TIMEOUT	CHANNEL 4 TIMEOUT
AUDIO RESPONSE TIME	500 MS			
FORCE AUDIO RESPONSE TIME	1000 MS			

RADIO SETTINGS	
FREQUENCY	161.250 MHz
TX POWER	6
SQUELCH ON	-74.3
SQUELCH OFF	-74.3
AAR CHANNEL	76



NOTES: ALL WIRING THIS SHEET #16 AWG
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CHANGE FROM TYPICAL: N

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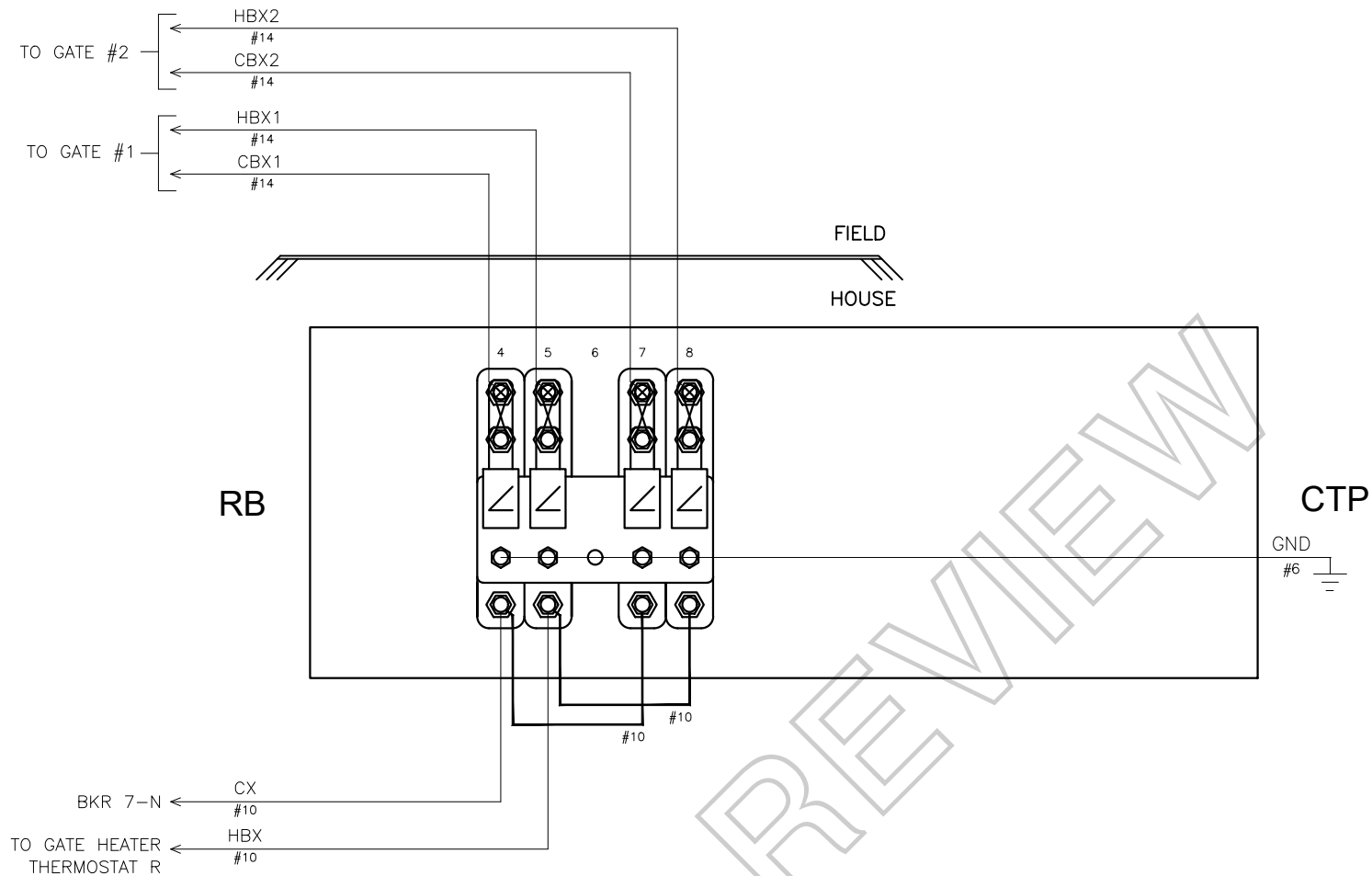


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Railway

LOCATION WALNUT STREET (CR 281) EAST SPARTA, OH 40,6678890,-81.3583501		
ORIGINAL DATE 02/18/2022	TITLE ARRESTOR PANEL	
DESIGNER RGPT	SUB CLEVELAND	RGPT NO. CN22022
DRAFTSMAN RGPT	RRMP S - 07.05	SCALE N.T.S.
CHECKER RGPT	DOT NO. 142 834X	SHEET 10 of 21



LEGEND:

 = INSULATED NUT

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

CHANGE FROM TYPICAL: N

REVISION
BLOCK



RIO GRANDE PACIFIC
TECHNOLOGY

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

**Wheeling & Lake Erie
Railway**

LOCATION WALNUT STREET (CR 281) EAST SPARTA, OH 40,6678890,-81.3583501		
ORIGINAL DATE 02/18/2022	TITLE CABLE TERMINATION PANEL	
DESIGNER RGPT	SUB CLEVELAND	RGPT NO. CN22022
DRAFTSMAN RGPT	RRMP S - 07.05	SCALE N.T.S.
CHECKER RGPT	DOT NO. 142 834X	SHEET 11 of 21

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:

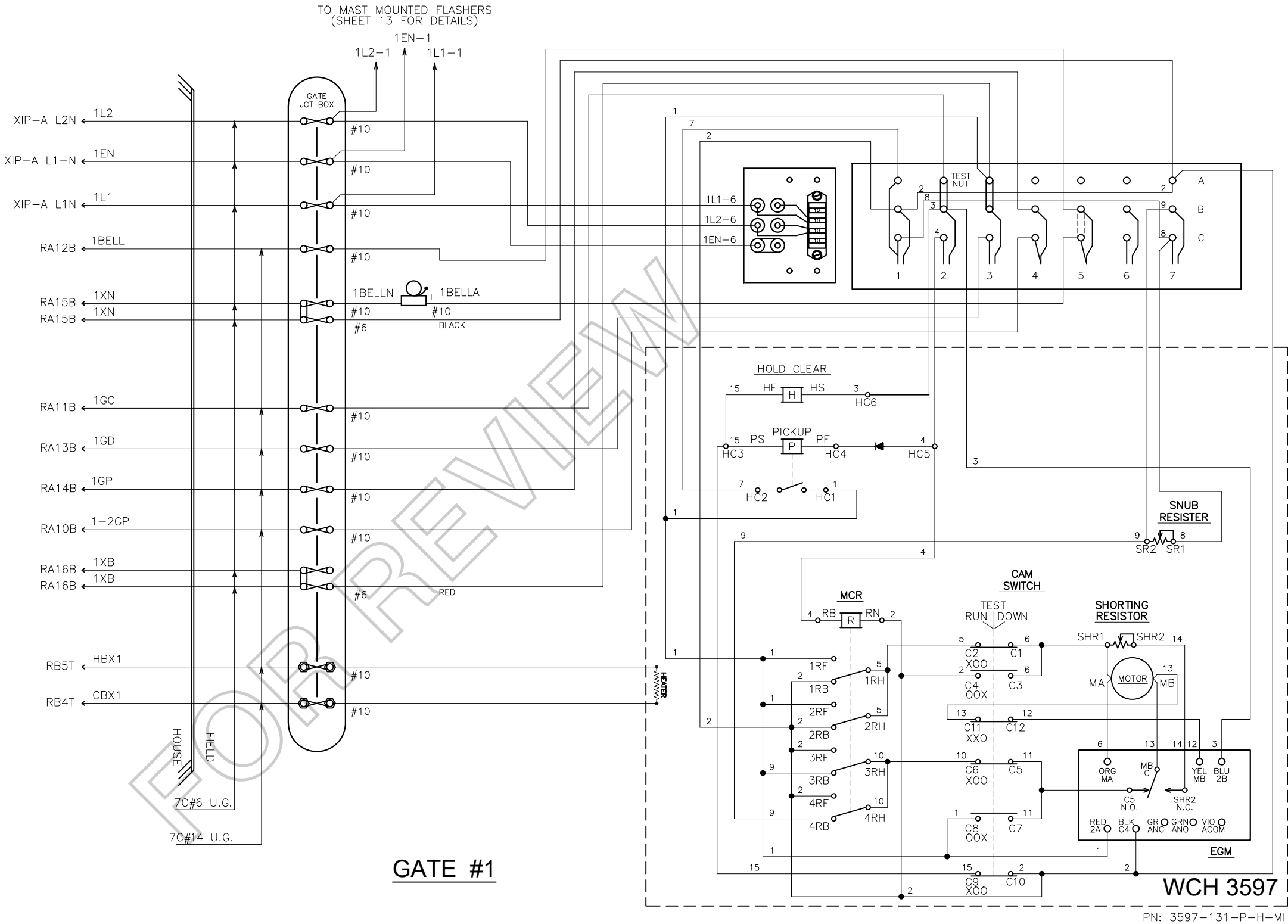
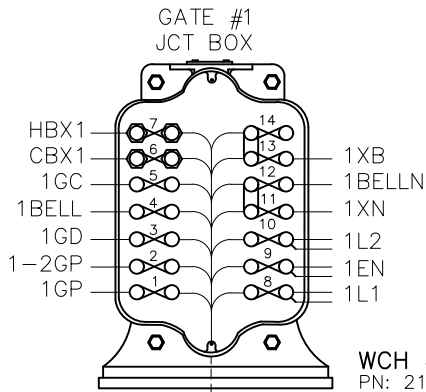
 = INSULATED NUT

NOTES:

* BELL TO BE ELECTRONIC.
 = INTERNAL GATE WIRES THAT SHARE ELECTRICAL CONNECTIONS WITH OTHER WIRES THAT ARE ASSIGNED THE SAME NUMBER.

REFER TO SHEET 13 FOR GATE ARM LIGHT WIRING

ADD BOLD STRAPS AND JUMPERS AS SHOWN.



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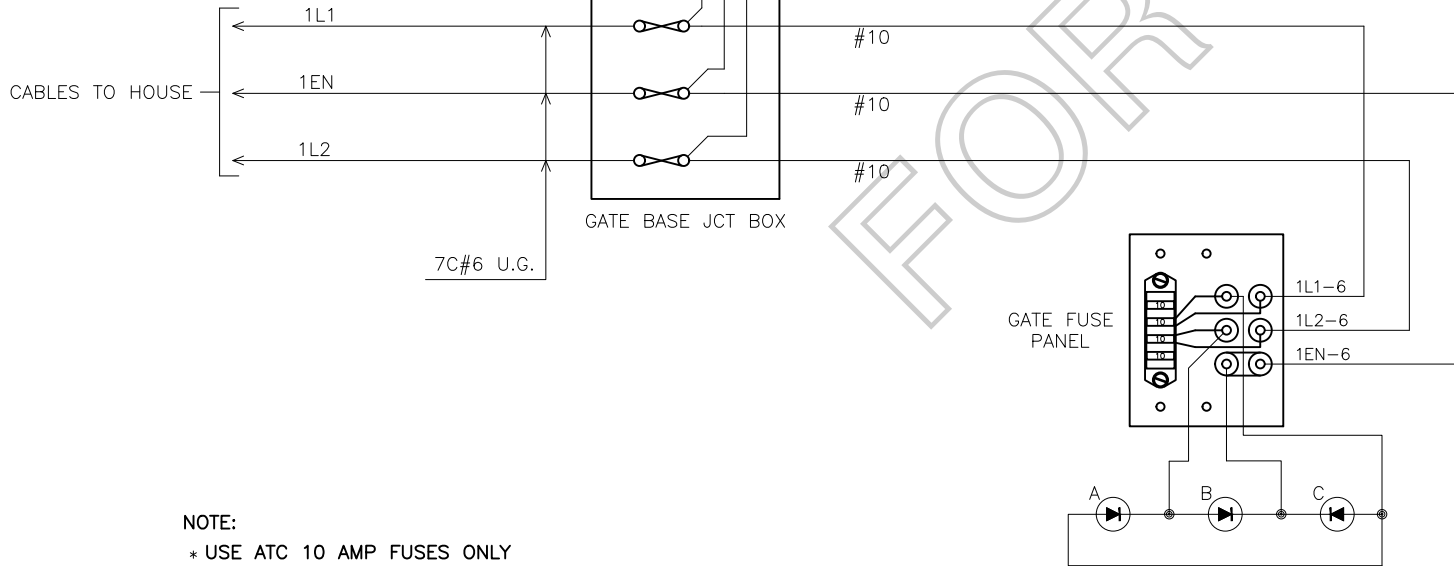
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Railway

LOCATION WALNUT STREET (CR 281) EAST SPARTA, OH 40,6678890,-81.3583501		
ORIGINAL DATE 02/18/2022	TITLE GATE #1 MECHANISM (NEAR SIDE)	
DESIGNER RGPT	SUB CLEVELAND	RGPT NO. CN22022
DRAFTSMAN RGPT	RRMP S - 07.05	SCALE N.T.S.
CHECKER RGPT	DOT NO. 142 834X	SHEET 12 of 21

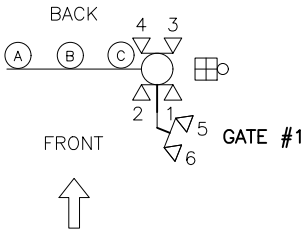
GATE #1



NOTE:

* USE ATC 10 AMP FUSES ONLY

Ⓚ IS LED SYMBOL ONLY. INSTALL ACCORDING TO MANUFACTURER'S INSTRUCTIONS.



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CHANGE FROM TYPICAL: Y



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Wheeling & Lake Erie Railway

LOCATION

WALNUT STREET (CR 281)
EAST SPARTA, OH

40,6678890,-81.3583501

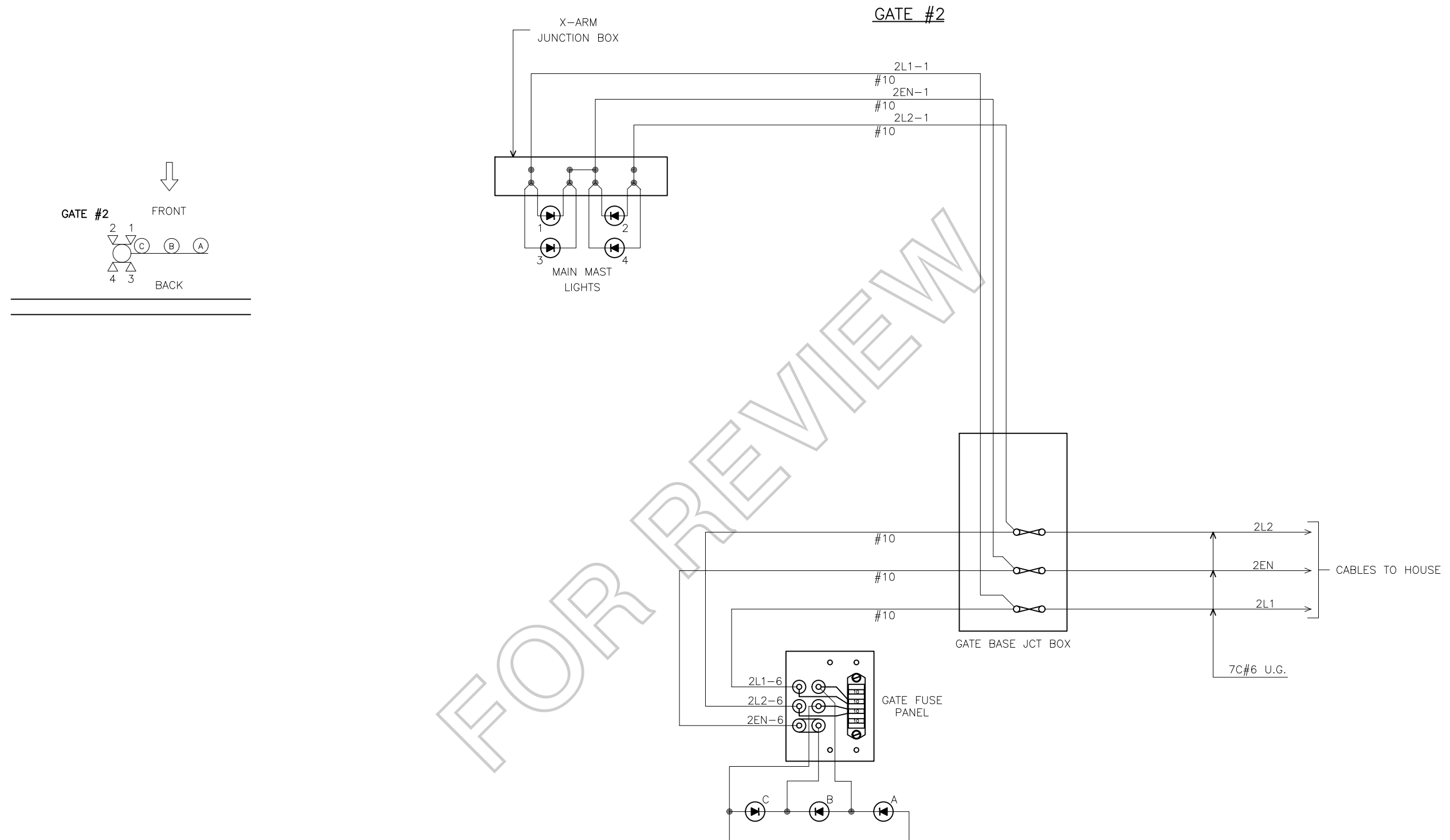
ORIGINAL DATE 02/18/2022

TITLE	GATE #1

SUB CLEVELAND

RRMP S - 07.05

DOT NO. 142 834X



NOTE:
* USE ATC 10 AMP FUSES ONLY

IS LED SYMBOL ONLY. INSTALL ACCORDING TO MANUFACTURER'S INSTRUCTIONS.

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CHANGE FROM TYPICAL: Y

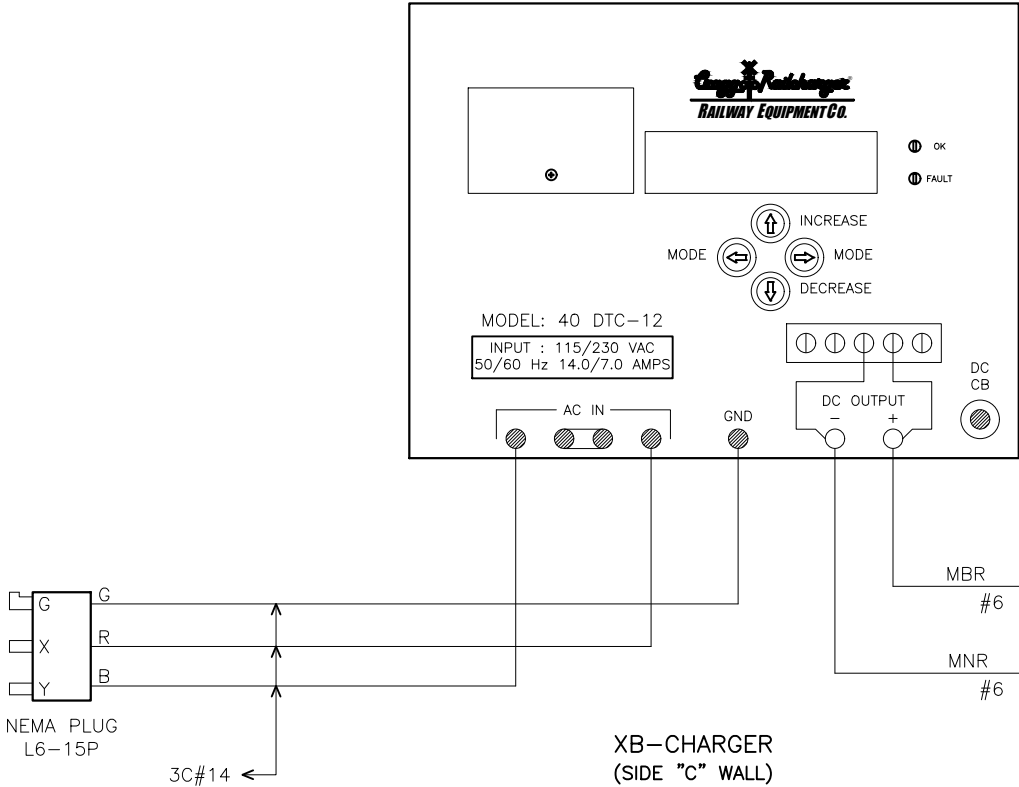
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LOCATION				WALNUT STREET (CR 281) EAST SPARTA, OH				40,6678890,-81.3583501			
ORIGINAL DATE		02/18/2022		TITLE		GATE #2 LIGHTS (FAR SIDE)					
DESIGNER		RGPT		SUB		CLEVELAND		RGPT NO.		CN22022	
DRAFTSMAN		RGPT		RRMP		S - 07.05		SCALE		N.T.S.	
CHECKER		RGPT		DOT NO.		142 834X		SHEET		15 OF 21	

MB-CHARGER
(SIDE "A" WALL)



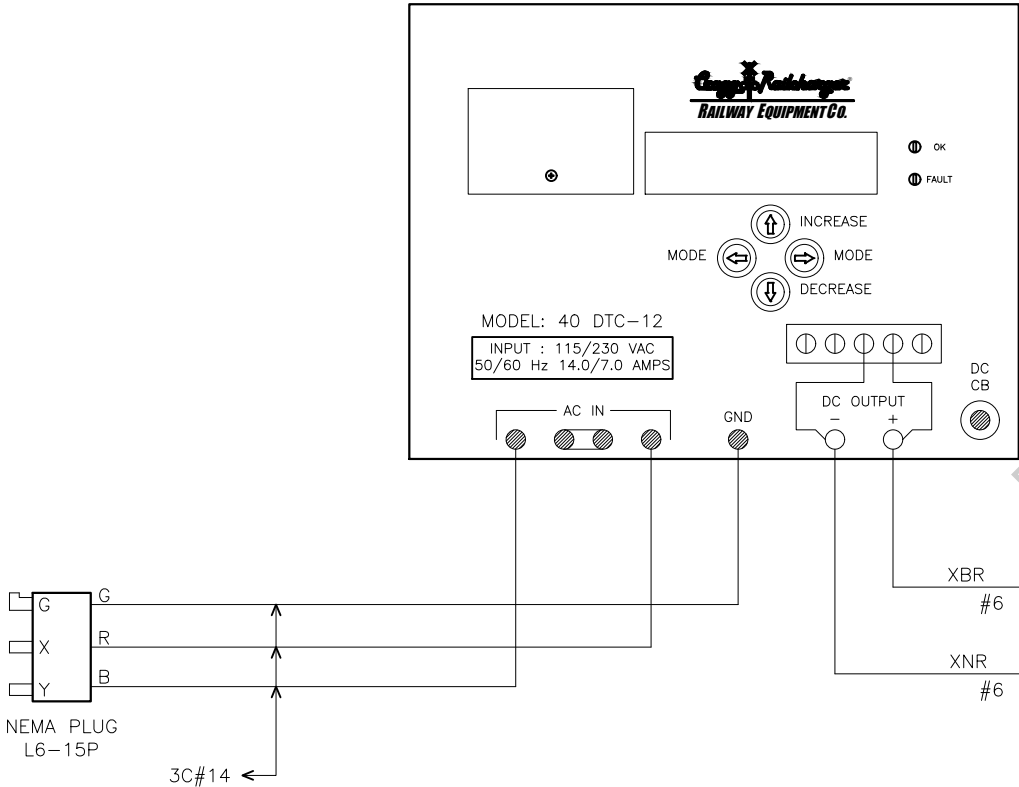
BASIC SETUP			
NO.	ABBREVIATION	DEFAULT SETTING	DESIRED SETTING
1	PASSWORD	5	5
2	USER LEVEL	BASIC	BASIC
3	BATTERY TYPE	LEAD ACID OR NI-CAD	NI-CAD
4	NUMBER OF CELLS	-	9
5	VOLTS PER CELL	-	1.42

BATTERY BUSS DETAILS

SPARE	21	SPARE
SPARE	20	SPARE
CC50T	19	XP4 S7 IN2-
CC45T	18	XP4 S7 IN1-
DB1T	17	DB3T
SPARE	16	RCDR C1 IN8-
SPARE	15	RCDR C1 IN5-
RCDR C1 IN10+	14	RCDR C1 IN10-
RCDR CPU BATT+	13	RCDR CPU BATT-
DTMF BATT+	12	DTMF BATT-
MDSA-1 B+	11	MDSA-1 B-
MB BATT+	10	MN BATT-

MB BUSS (TOP) AA MN BUSS (BOTTOM)

XB-CHARGER
(SIDE "C" WALL)



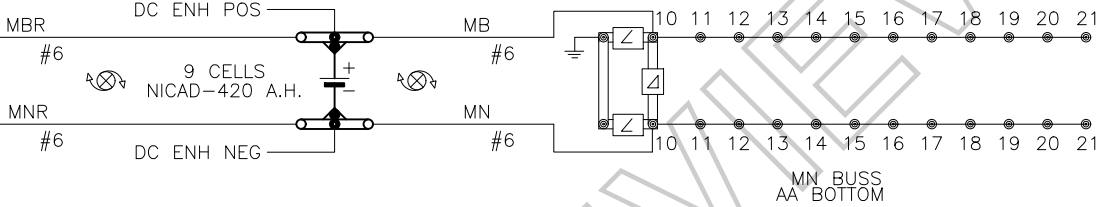
BASIC SETUP			
NO.	ABBREVIATION	DEFAULT SETTING	DESIRED SETTING
1	PASSWORD	5	5
2	USER LEVEL	BASIC	BASIC
3	BATTERY TYPE	LEAD ACID OR NI-CAD	NI-CAD
4	NUMBER OF CELLS	-	10
5	VOLTS PER CELL	-	1.42

BATTERY BUSS DETAILS

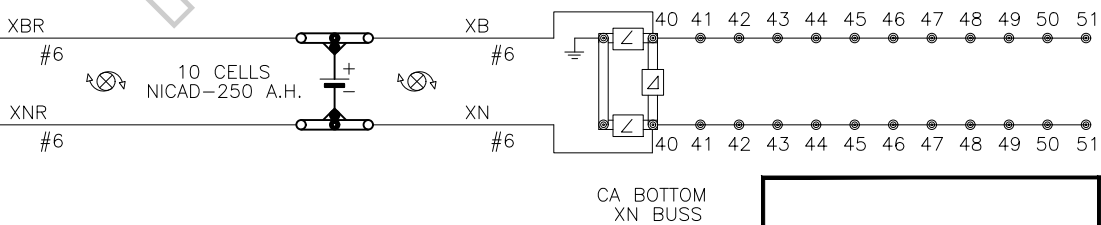
RA4T	51	RA5T
RA16T	50	RA15T
XIP-A B	49	XIP-A N
SPARE	48	SPARE
SPARE	47	SPARE
SPARE	46	SPARE
DTMF CH2 H	45	XIP-A G1-
CC58T	44	XP4 S8 IN4-
FD COM	43	RCDR C2 IN9-
RCDR C1 IN9+	42	RCDR C1 IN9-
XIP-A L1B-B	41	XIP-A L1B-N
XB BATT+	40	XN BATT-

XB BUSS (TOP) CA XN BUSS (BOTTOM)

MB-BATTERY



XB-BATTERY



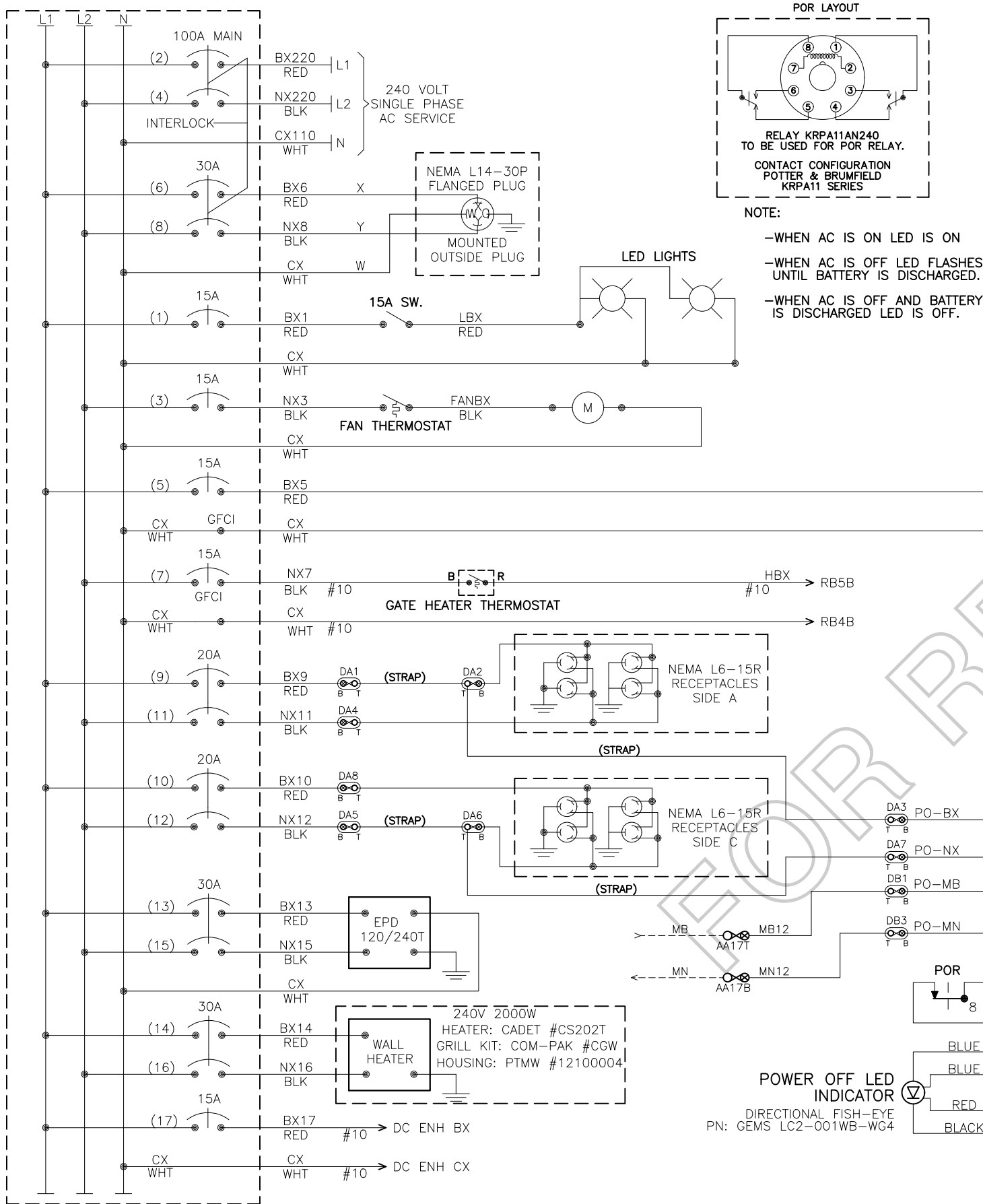
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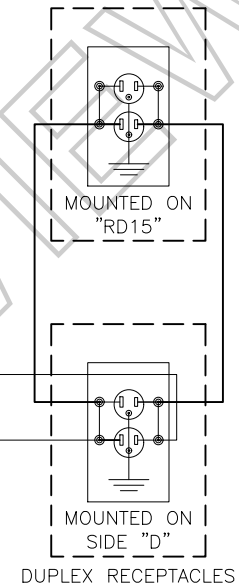
LOCATION WALNUT STREET (CR 281) EAST SPARTA, OH 40,6678890,-81.3583501		
ORIGINAL DATE 02/18/2022	TITLE BATTERY CHARGERS	
DESIGNER RGPT	SUB CLEVELAND	RGPT NO. CN22022
DRAFTSMAN RGPT	RRMP S - 07.05	SCALE 1"=2'
CHECKER RGPT	DOT NO. 142 834X	SHEET 16 of 21



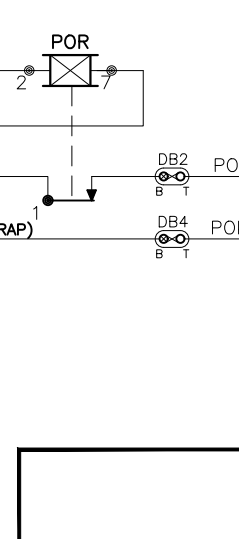
NOTES:

- USE THE FOLLOWING COLOR CODE:
GRN - GREEN - SAFETY EQUIPMENT GROUND
WHT - WHITE - CX110 (NEUTRAL)
BLK - BLACK - NX220 (L2)
RED - RED - BX220 (L1)
EXCEPTIONS TO THE ABOVE COLOR CODE ARE THE PRE-WIRED, SEALED ARRESTOR UNITS MOUNTED ON THE BREAKER BOX WHICH HAVE TWO BLACK AND ONE WHITE WIRE EACH.
- MINIMUM WIRE SIZE:
10 AMP - NO.14 AWG THHN OR THWN SOLID
20 AMP - NO.12 AWG THHN OR THWN SOLID
30 AMP - NO.10 AWG THHN OR THWN SOLID
- GROUND FAULT INTERRUPT (GFC) MUST BE USE ON ALL CIRCUITS SERVING CONVENIENCE OUTLETS AND ANY EQUIPMENT OUTSIDE THE BUNGALOW. RECEPTACLE MOUNTED GFCI MAY BE USE INSTEAD OF BREAKER TYPE.
- ALL GROUND WIRES RUN TO BREAKER BOX GROUND BUS

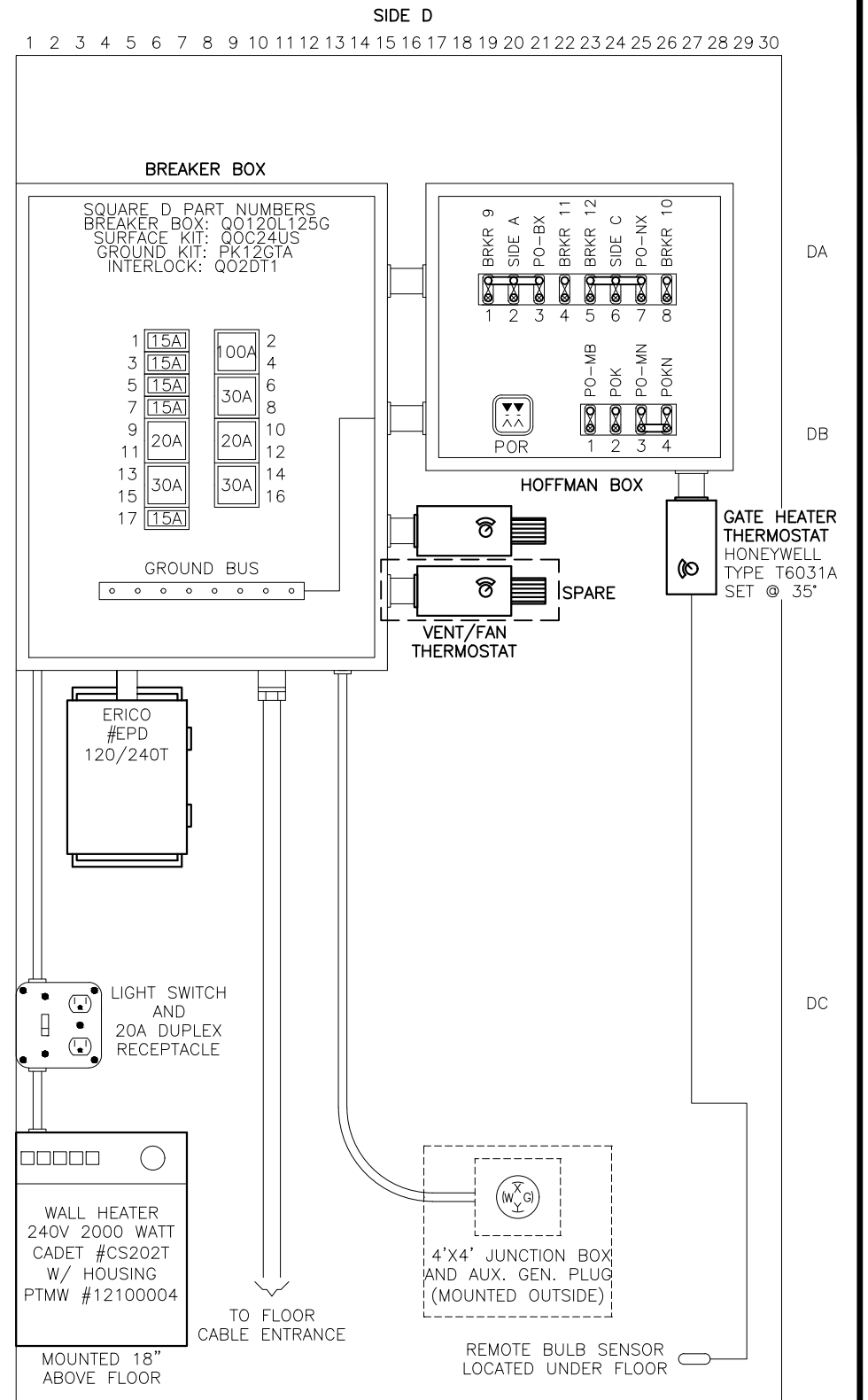
DUPLEX RECEPTACLES



DUPLEX RECEPTACLES



POWER OFF LED INDICATOR
DIRECTIONAL FISH-EYE
PN: GEMS LC2-001WB-WG4



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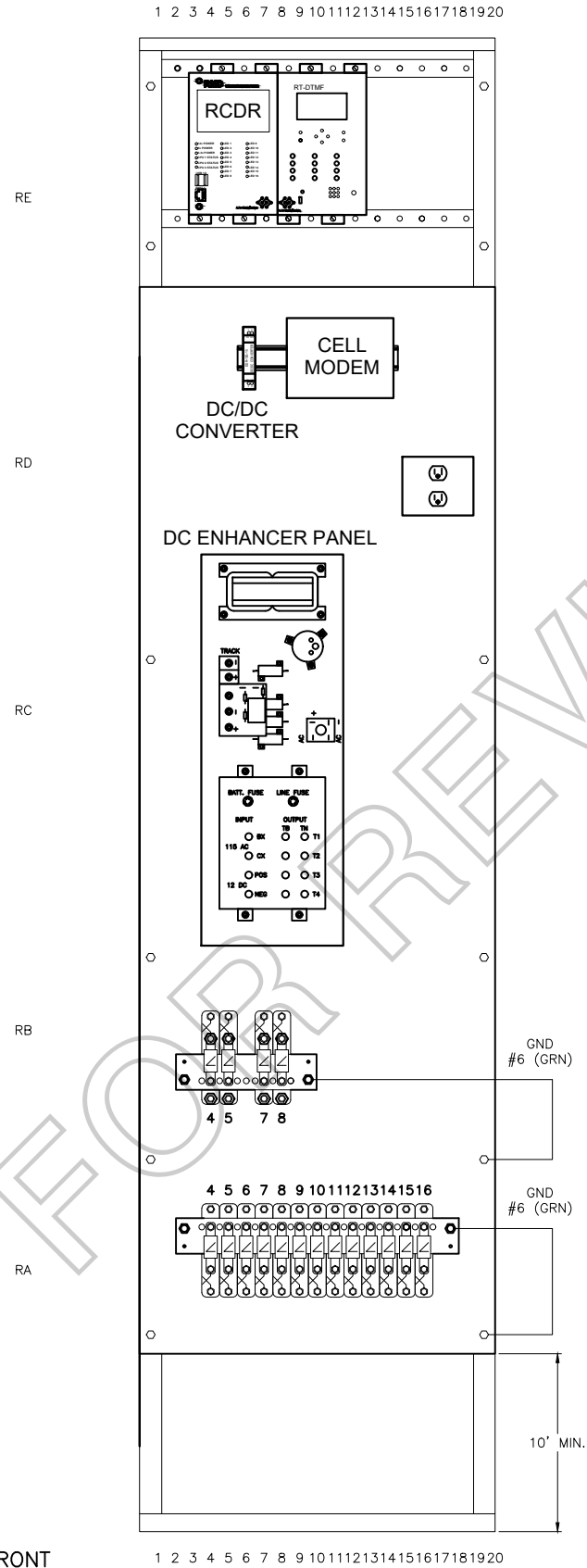
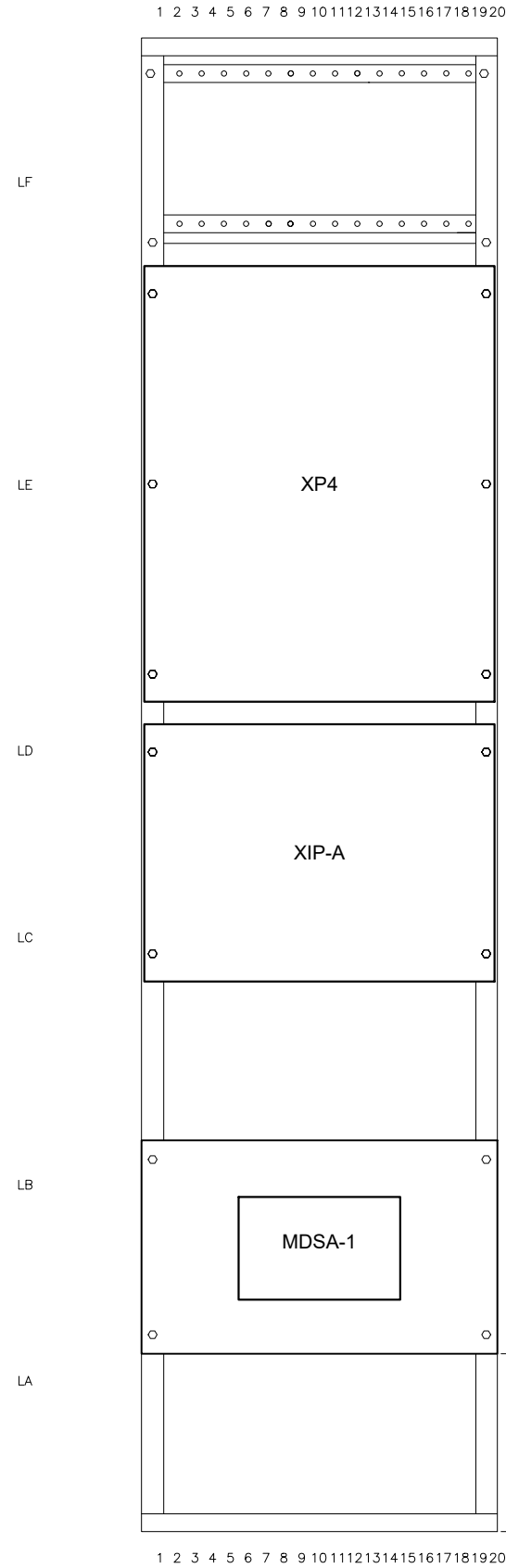
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LOCATION WALNUT STREET (CR 281) EAST SPARTA, OH			
40,6678890,-81.3583501			
ORIGINAL DATE	02/18/2022	TITLE	AC POWER DISTRIBUTION
DESIGNER	RGPT	SUB	CLEVELAND
DRAFTSMAN	RGPT	RRMP	S - 07.05
CHECKER	RGPT	DOT NO.	142 834X
		RGPT NO.	CN22022
		SCALE	1"=2'
		SHEET	17 of 21



SIDE 'B' FRONT

CHANGE FROM TYPICAL: Y

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Railway**

LOCATION WALNUT STREET (CR 281) EAST SPARTA, OH 40,6678890,-81.3583501		
ORIGINAL DATE	02/18/2022	TITLE RACK FRONT VIEW
DESIGNER	RGPT	SUB CLEVELAND
DRAFTSMAN	RGPT	RRMP S - 07.05
CHECKER	RGPT	DOT NO. 142 834X
		RGPT NO. CN22022
		SCALE 1"=2'
		SHEET 18 of 21

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

RDB

RCB

RBB

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

LDB

LCB

LBB

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 TYPICAL: Y

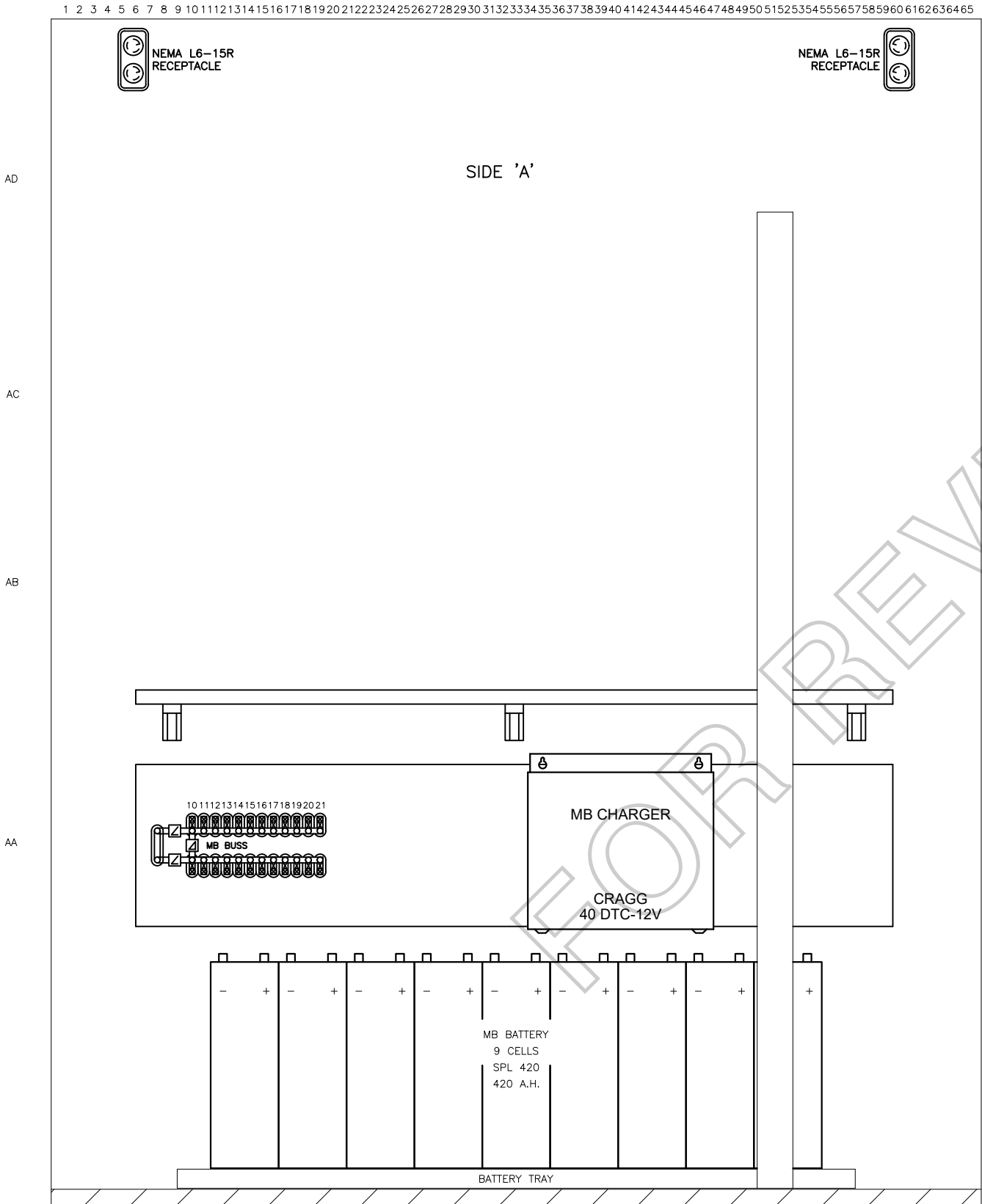
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LOCATION WALNUT STREET (CR 281) EAST SPARTA, OH 40,6678890,-81.3583501			
ORIGINAL DATE	02/18/2022	TITLE RACK BACK VIEW	
DESIGNER	RGPT	SUB CLEVELAND	RGPT NO. CN22022
DRAFTSMAN	RGPT	RRMP S - 07.05	SCALE 1"=2'
CHECKER	RGPT	DOT NO. 142 834X	SHEET 19 of 21



CHANGE FROM TYPICAL: N

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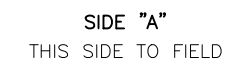


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Railway**

LOCATION			WALNUT STREET (CR 281) EAST SPARTA, OH 40,6678890,-81.3583501		
ORIGINAL DATE	02/18/2022	TITLE	SIDE "A"		
DESIGNER	RGPT	SUB	CLEVELAND	RGPT NO.	CN22022
DRAFTSMAN	RGPT	RRMP	S - 07.05	SCALE	1"=2'
CHECKER	RGPT	DOT NO.	142 834X	SHEET	20 of 21



LOCATION			
WALNUT STREET (CR 281) EAST SPARTA, OH			
40,6678890,-81.3583501			
ORIGINAL DATE	02/18/2022	TITLE	SIDE "C"
DESIGNER	RGPT	SUB	CLEVELAND
		RGPT NO.	CN22022
DRAFTSMAN	RGPT	RRMP	S - 07.05
		SCALE	1"=2'
CHECKER	RGPT	DOY NO.	142 834X
		SHEET	21 OF 21

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

June 7, 2022

Ohio Rail Development Commission
Mr. Jim Tucker
1980 West Broad St
Mail Stop #3140
Columbus, OH 43223

Estimate for Railroad Crossing Warning System at Walnut Street - DOT: 142-834-X

Dear Mr. Tucker,

I am providing this estimate for the crossing package and installation at Walnut Street. The material package and installation of the project will be completed under our continuing agreement with RioTech. Copies of the material and installation cost is attached.

Engineering Services/Labor/Material, RioTech (breakout attached)	\$211,185.69
Preliminary Installation Services, Crosier (breakout attached)	\$25,888.54
Electric Service	\$2,500.00
Electric Utility fees	\$7,500.00
WLE Direct Signal Labor	\$5,500.00
Galvanized signal foundations	\$3,400.00
Stone for fill	\$3,500.00
 TOTAL	 \$259,474.23

Please contact me if additional details are required.

Respectfully,



Tim Andrews

Notes

1: Direct purchase from Fabricated Metals, 60' galvanized gate foundation,
\$1700.00 ea.

Crosier Industrial Construction Ltd

8938 Peck Rd
Ravenna, Ohio 44266
Ph (330) 592-3082
trailnrbob@hotmail.com

Crosier Industrial Construction, LLC
Project Cost Estimate
Project: Walnut St.

Date 3-Jun-22
Invoice Number TBD
Work Auth: WLE Tim Andrews

		Rate/Hr	Hours	Total
Equipment Operator (backhoe, excavator)	ST	\$ 30.00	72	\$ 2,160.00
	OT	\$ 45.00		\$ -
Laborer, skilled	ST	\$25.00	72	\$ 1,800.00
	OT	\$37.50		\$ -
Project Manager		\$50.00	72	\$ 3,600.00
Administrative		\$30.00	2	\$ 60.00
	Sub-Total			\$ 7,620.00
	G&A Burden for Labor			\$ 4,572.00
	Total Labor			\$ 12,192.00
EQUIPMENT				
		Rate/hr	Hours	Total
E-55		\$ 47.50	60	\$ 2,850.00
E-32		\$ 33.90		\$ -
Dump Truck		\$ 43.20	20	\$ 864.00
Directional Drill		\$ 67.50	12	\$ 810.00
Digger Derrick		\$ 58.24	6	\$ 349.44
Truck		\$ 25.60	72	\$ 1,843.20
Trailer		\$ 6.00		\$ -
HydroTammer		\$ 18.00		\$ -
Tamper		\$ 5.00	10	\$ 50.00
Traffic cones		\$ 0.15	72	\$ 10.80
Traffic signs		\$ 0.25	72	\$ 18.00
	Total Equipment			\$ 6,795.44
MATERIALS				
	Quantity	Price/Each		Total
5" pvc	80	\$ 15.00		\$ 1,200.00
5" 90 degree	2	\$ 44.00		\$ 88.00
5" coup	4	\$8.00		\$ 32.00
4" pvc conduit	90	\$ 10.50		\$ 945.00
4" sweep	4	\$ 56.50		\$ 226.00
4" 45 degree	2	\$ 29.50		\$ 59.00
4" coup	12	\$ 4.75		\$ 57.00
2" pvc conduit	100	\$ 4.00		\$ 400.00
2" sweep	3	\$ 32.95		\$ 98.85
2" 45 degree	2	\$ 4.50		\$ 9.00
PVC cement	1	\$ 20.00		\$ 20.00
Pull rope	325	\$ 0.15		\$ 48.75
Ground Rods	2	\$ 32.00		\$ 64.00
Pull Box Regular	1	\$ 400.00		\$ 400.00
Pull Box Large	1	\$ 900.00		\$ 900.00
	Total material			\$ 4,547.60
	Job sub-total			\$ 23,535.04
	Profit Addition	10%		\$ 2,353.50
	TOTAL PROJECT EST			\$ 25,888.54

\$12,192.00
\$6,795.44
\$4,547.60
\$23,535.04

Terms for Invoices are Net 30 days. Thank you.

Wheeling & Lake Erie Railway
E. Sparta, OH - Walnut St - DOT#142834X
Riotech Project Estimate



ENGINEERING				
<i>Description</i>	<i>Qty</i>	<i>UOM</i>	<i>Unit Price</i>	<i>Amount</i>
DIAGNOSTIC TECHNICIAN	16	HR	\$68.53	\$1,096.48
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				\$6,234.32
G&A	164%			\$10,224.28
FIXED FEE	10%			\$1,645.86
ENGINEERING TOTAL				\$18,104.47

PROJECT MANAGEMENT				
<i>Description</i>	<i>Qty</i>	<i>UOM</i>	<i>Unit Price</i>	<i>Amount</i>
PROJECT MANAGER - SIGNAL	24	HR	\$44.57	\$1,069.68
SR. PROJECT MANAGER - SIGNAL	4	HR	\$67.64	\$270.56
PURCHASING MANAGER	24	HR	\$31.22	\$749.28
ACCOUNTING	8	HR	\$40.00	\$320.00
SYSTEMS PROJECT SPECIALIST	4	HR	\$23.76	\$95.04
SUBTOTAL				\$2,504.56
G&A	164%			\$4,107.48
FIXED FEE	10%			\$661.20
PROJECT MANAGEMENT TOTAL				\$7,273.24

EAF LABOR				
<i>Description</i>	<i>Qty</i>	<i>UOM</i>	<i>Unit Price</i>	<i>Amount</i>
EAF SUPERVISOR	8	HR	\$ 31.48	\$251.84
EAF LEAD FOREMAN	32	HR	\$ 29.57	\$946.24
LEAD WIREMAN	56	HR	\$ 21.37	\$1,196.72
APPLICATION PROGRAMMING	1	HR	\$ 1,500.00	\$1,500.00
TEST	8	HR	\$ 35.00	\$280.00
TEST - SPECIFIC	4	HR	\$ 68.53	\$274.12
QA/QC	10	HR	\$ 35.38	\$353.80
SUBTOTAL				\$4,802.72
G&A	164%			\$7,876.46
FIXED FEE	10%			\$1,267.92
EAF LABOR TOTAL				\$13,947.10

Wheeling & Lake Erie Railway
E. Sparta, OH - Walnut St - DOT#142834X
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	\$44.57	\$356.56
CONSTRUCTION SUPERVISOR	80	HR	\$36.90	\$2,952.00
CREW FOREMAN	80	HR	\$30.84	\$2,467.20
CREWMAN 3	80	HR	\$22.71	\$1,816.80
CREWMAN 1	80	HR	\$19.54	\$1,563.20
SUBTOTAL				\$9,155.76
G&A	164%			\$15,015.45
FIXED FEE	10%			\$2,417.12
CONSTRUCTION LABOR TOTAL				\$26,588.33

CONSTRUCTION LABOR EXPENSES				
<i>Description</i>	<i>Qty</i>	<i>UOM</i>	<i>Unit Price</i>	<i>Amount</i>
DIAGNOSTIC EXPENSES	1	EA	\$500.00	\$500.00
CREW MEALS	32	EA	\$56.00	\$1,792.00
CREW LODGING	32	EA	\$100.00	\$3,200.00
MOBILIZATION	1	EA	\$1,500.00	\$1,500.00
SUBTOTAL				\$6,992.00
FIXED FEE	0%			\$0.00
CONSTRUCTION LABOR EXPENSES TOTAL				\$6,992.00

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 (BACKHOE W/18" BKT)	1	WK	\$1,600.00	\$1,600.00
RENTAL EQUIPMENT (FORKLIFT - 8K)	2	WK	\$1,600.00	\$3,200.00
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>
MATERIAL	1	LS	SEE ATTACHED DETAIL	\$114,061.66
MATERIAL INBOUND FREIGHT	1	LS	\$4,000.00	\$4,000.00
FILL DIRT	40	TN	\$25.89	\$1,035.60
COVER ROCK (3/4" CRUSHED - WHITE)	25	TN	\$26.50	\$662.50
PALLET CHARGE - GATES	2	EA	\$100.00	\$200.00
SHIPPING CONTAINER, 40'	4	WK	\$15.00	\$60.00
PVC PACKAGE	1	PKG	\$2,500.00	\$2,500.00
SUBTOTAL				\$122,519.76
TAX (IF APPLICABLE)	-			\$0.00
FIXED FEE	0%			\$0.00
MATERIAL TOTAL				\$122,519.76

Wheeling & Lake Erie Railway
E. Sparta, OH - Walnut St - DOT#142834X
Riotech Project Estimate



<i>SUBCONTRACTOR</i>				
<i>Description</i>	<i>Qty</i>	<i>UOM</i>	<i>Unit Price</i>	<i>Amount</i>
SUBCONTRACTOR SVC - CONTAINER DELIVERY	1	LS	\$4,500.00	<i>\$4,500.00</i>
SUBCONTRACTOR SVC - CONTAINER PICKUP	1	LS	\$2,500.00	<i>\$2,500.00</i>
SUBCONTRACTOR SVC - HORIZONTAL BORING (4" HDPE)	0	FT	\$45.00	<i>\$0.00</i>
SUBCONTRACTOR SVC - METER POLE (PERMIT & INSTALL)	0	LS	\$5,000.00	<i>\$0.00</i>
SUBCONTRACTOR SVC - PORTA-POTTY	2	MN	\$200.00	<i>\$400.00</i>
<i>SUBTOTAL</i>				<i>\$7,400.00</i>
<i>FIXED FEE</i>	<i>0%</i>			<i>\$0.00</i>
<i>SUBCONTRACTOR TOTAL</i>				<i>\$7,400.00</i>
<i>TOTAL PROJECT ESTIMATE</i>				<i>\$211,185.69</i>

Walnut St - Project # CN-21451

VENDOR	DESCRIPTION	PART NUMBER	QTY	UOM	UNIT PRICE	TOTAL
Allied	Relay, 8-pin KRPA style, 10A/240VAC	70198711	1	EA	\$26.59	\$26.59
Allied	Socket, 8-pin KRPA style	70199343	1	EA	\$8.66	\$8.66
A.C.E.	Labels, wire marker sleeve	HX-375-2-WT-2	1	EA	\$630.00	\$630.00
Allied	Spring, Hold down for KRPA style relay	70198576	1	EA	\$1.05	\$1.05
Alstom	Controller, ElectroLogIXS XP4	16-220004433	1	EA	\$37,775.85	\$37,775.85
Alstom	MDSA-1X Surge arrestor panel	250204-100	1	EA	\$730.80	\$730.80
Alstom	XIP Panel, 20 Amp	227561-000	1	EA	\$731.85	\$731.85
Alstom	Cable, 12 ft (cable #1) (Need 1 for XIP)	075046-002	1	EA	\$197.40	\$197.40
Alstom	Cable, 12 ft (cable #2) (Need 1 for XIP)	075047-002	1	EA	\$197.40	\$197.40
Alstom	Insulated Nut, 1 3/16"	013986-000	20	EA	\$4.20	\$84.00
Alstom	FSS-1/2C, (630Hz - 979Hz) Tunable Shunts	250849-002	2	EA	\$1,080.45	\$2,160.90
ARMS	Cell Modem, LMU-5541, Vanguard	LMU5541LW-H000-G1000	1	EA	\$892.50	\$892.50
Arrow	Terminal Ring, HD, 1/4", insulated, #10 - #12 (yellow w/blk stripe)	2-320569-6	100	EA	\$0.58	\$57.75
Digikey	DC-DC Converter, din rail mount	DDR-15G-15	1	EA	\$26.25	\$26.25
Elliott Elect	5/8" X 8' Copper Ground Rod	95082476	6	EA	\$14.07	\$84.42
Erico	Terminal, 4-post, Block Kit, w/ 14-24 AAR Hardware	B2700A2C1WH	17	EA	\$34.82	\$591.91
Erico	RailSurge Plane Strip Busbar (36")	B2700HC36T	2	EA	\$61.65	\$123.29
Erico	Wheel, grinding	SB22122	3	EA	\$51.89	\$155.67
Erico	Mold,Web Signal Bond,3/16	SBB200C	1	EA	\$114.22	\$114.22
Erico	5/8" Ground Rod Weld	SBNT1161G	6	EA	\$16.70	\$100.17
Erico	Cadweld Plus Rail Joint Bond Kit, XS Style (Kit of 60)	SBS24882CWP	180	EA	\$8.12	\$1,460.97
Erico	Arrestor, DC	EPD2050F	17	EA	\$59.51	\$1,011.74
Erico	Arrestor, AC	EPD2170F	4	EA	\$61.28	\$245.11
G&B	Shunt Enclosure, Orange	500-400-100-09-Orange	2	EA	\$404.25	\$808.50
Graybar	Panduit, Wire Duct, 2"X3"X6' Gray	95032476	2	EA	\$5.10	\$10.21
Graybar	Panduit, Cover, 6' Gray	88197241	2	EA	\$1.24	\$2.48
Graybar	Wire, Ground, #6AWG, Bare Copper	BARE-CU-SD-6-SOL-315S	60	FT	\$0.43	\$25.83
Graybar	Duct seal, 5lb	31-605	3	EA	\$18.38	\$55.13
Graybar	Cable, SJ Cord 4c/14	BJ11404-14/4-SJ00W-300V	50	FT	\$0.89	\$44.63
Graybar	Nema Plug, Locking, (L6-15P) 15A/240V	HBL4570C	2	EA	\$17.64	\$35.28
Grainger	Decal, Danger 240V (5"x3.5")	3XDU5	1	EA	\$3.15	\$3.15
GSI	Gate Keeper, 2-Way, w/Hardware & Buffer Spring	SK-1000-SW40	2	EA	\$1,155.00	\$2,310.00
GSI	Gate, Alum/Polyglass 19'-32', Hi Intensity tape	SG-1932-FT-HI	2	EA	\$366.45	\$732.90
GSI	Bell, Electronic, 5" Base	EB-3-360-5	1	EA	\$225.75	\$225.75
Home Depot	Circuit Breaker, 120VAC, 15 Amp, Square D	QO115CP	1	EA	\$11.08	\$11.08
J&A Industries	Terminal, Battery, 3-PT	225481-000	4	EA	\$28.35	\$113.40
J&A Industries	Battery Tray, 12'x27"	027003-001	4	EA	\$50.40	\$201.60
L&W	Connector, Buss strap (1" - 36 holes)	9A2216-36	4	EA	\$21.47	\$85.89
NEG	Wind Bracket, 36", 5"MTG w/hardware	NEG-191036	2	EA	\$110.25	\$220.50
NEG	Sign, Emergency, ENS, 15X9 Blue	NEG S-I-13-15x9ENS	2	EA	\$11.34	\$22.68
Okonite	Wire, Case, #16AWG 1000' spool, Blue	152-11-3002	2	EA	\$231.00	\$462.00
Okonite	Wire, Case, #10AWG 1000' spool, Blue	152-11-3038	2	EA	\$514.50	\$1,029.00
Okonite	Cable, 7/C#6, Armored	206-11-6247	500	FT	\$8.35	\$4,173.75
Okonite	Cable, 7C#14, Armored	206-11-6887	500	FT	\$3.27	\$1,632.75
Okonite	Cable, 3C#6 w/Ground for A/C power	206-11-6070	300	FT	\$5.31	\$1,593.90
Okonite	Wire, Track, 2C/#6, Twist, Solid	150-12-3933	300	FT	\$2.16	\$648.90
PTMW	Bungalow, Alum. 6 X6 w/Heater	91000564 D-1	1	EA	\$12,231.45	\$12,231.45
PTMW	Door Magnetic Switch Assy	14979 PH	2	EA	\$56.70	\$113.40
PTMW	Kit Antenna Mount, GPS w/ Brkt (Item #41253)	TBD	1	EA	\$107.63	\$107.63
Railway Equip	E-Z gate LED lamp kit	9298-1120	2	EA	\$183.75	\$367.50
Railway Equip	Battery Charger, 40DTC-12V	520940	2	EA	\$882.00	\$1,764.00
Rebel	Terminal, 2X6 W/ Flat nut/washer	220-0101	12	EA	\$12.34	\$148.05
Rebel	Terminal, Block, 2 3/8" center - 2 post w/hardware	220-0301	5	EA	\$4.31	\$21.53
Rebel	Nut, AAR Flat Nut	220-0001	300	EA	\$0.21	\$63.00
Rebel	Nut, AAR Crown Nut	220-0000	300	EA	\$0.26	\$78.75
Rebel	Washer, AAR Flat	220-0003	300	EA	\$0.11	\$31.50
Rebel	Gold Test Nut	220-0008	100	EA	\$0.74	\$73.50
Rebel	Strap, 1" offset test link	220-0506	100	EA	\$0.89	\$89.25
Rebel	Strap, 2 3/8" flat test strap	220-0516	1	EA	\$1.52	\$1.52
Rebel	Strap, 2 3/8" flat strap	220-0507	2	EA	\$0.79	\$1.58
Rebel	Sign, Crossbuck (NO brackets or hardware)	070-0065	2	EA	\$99.75	\$199.50
Rebel	Pinnacle, 5"	010-9034	1	EA	\$22.97	\$22.97
Rebel	5" Sign Kit (Brackets/extensions/Ubolts/hardware)	070-5008	4	EA	\$72.35	\$289.38
Reynolds	Wire, Case, #6AWG, Green	N6GNM	100	FT	\$0.47	\$47.25
Reynolds	Wire, Case, #6AWG, Black	N6BM	100	FT	\$0.47	\$47.25
Reynolds	Wire, Case, #6AWG, Red	N6RD	100	FT	\$0.47	\$47.25
Riotech	Recorder, RMD (includes 3' harness & wago strips)	RMD-IIXX	1	EA	\$4,068.75	\$4,068.75

Riotech	Bootleg Kit, Crossing complete, 1 Track		1	EA	\$262.50	\$262.50
Riotech	DTMF Controller		1	EA	\$2,938.95	\$2,938.95
Riotech	DIN Rail, 35mm x 2', Zinc-plated, w/end caps		1	EA	\$26.25	\$26.25
Riotech	Cable, 3' Cat6 Ethernet cable		1	EA	\$15.75	\$15.75
Riotech	Field Tag Kit		1	EA	\$262.50	\$262.50
Saft	Battery, SPL 250 Ni-Cad	SPL+250	10	EA	\$236.25	\$2,362.50
Saft	Battery, SPL 420 Ni-Cad	SPL+420	9	EA	\$409.50	\$3,685.50
Siemens	Test Nut wrench, 11"	032619-22X	1	EA	\$68.41	\$68.41
Siemens	Arrestor, Air Gap, With Cover	4000-44615-001X	4	EA	\$27.04	\$108.15
Siemens	Equalizer, Air Gap, with Cover/Hardware	4000-44700-001X	2	EA	\$25.26	\$50.53
Siemens	Enhancer Panel	80049	1	EA	\$6,344.10	\$6,344.10
Tessco Technologies	Antenna, 136-512 MHz Base Station Adapter Kit	36522	1	EA	\$49.92	\$49.92
Tessco Technologies	Antenna, 1/4 Wave, 152-162 MHz, Black	35951	1	EA	\$18.07	\$18.07
Tessco Technologies	LMR-240UF UltraFlex	40260	4	FT	\$1.25	\$5.00
Tessco Technologies	UHF Male Crip-RS8X, LMR24	33449	1	EA	\$5.21	\$5.21
Tessco Technologies	N Nale-RG8X, LMR240	36997	1	EA	\$13.14	\$13.14
Tessco Technologies	Dual Fitting-UHF Conn. On RG Cable with Heat Shrink	485797	1	EA	\$19.55	\$19.55
Tessco Technologies	LMR-240UF UltraFlex	40260	5	FT	\$1.25	\$6.25
Tessco Technologies	BNC Male Crimp-RG8X, LMR24	22462	1	EA	\$7.37	\$7.37
Tessco Technologies	N Male-RG8X, LMR 240	36997	1	EA	\$13.14	\$13.14
Tessco Technologies	Dual Fitting-RG Cable with Heat Shrink	434760	1	EA	\$12.69	\$12.69
Tessco Technologies	VHF Combiner Arrestor, N/F to N/F	433721	1	EA	\$147.05	\$147.05
Transportation Soluti	12" Red Led Crossing w/sidelights	RG6-RTFB-01BV3-H7	10	EA	\$157.50	\$1,575.00
Vantex	Tie-wrap, 11 1/2" (100 pk)	LTS11-0	2	EA	\$23.57	\$47.15
Vantex	Terminal, Ring, 1/4", insulated, #14 - #16, Blue (100 pk)	NB14	1	EA	\$33.76	\$33.76
Vantex	Terminal, Ring, 1/4" non-insulated, #6, Battery Lug	T6-14	8	EA	\$0.79	\$6.30
WCH	Jct box, Gate, 5" single (28 terminals & 1 1/2" flange)	2149-A-143	2	EA	\$485.10	\$970.20
WCH	Mech, Model 3597	3597-131-P-H-MI	2	EA	\$3,950.10	\$7,900.20
WCH	Crossarm Assy, 5" Mtg., 2 Way	975-0804-5	2	EA	\$731.85	\$1,463.70
WCH	Crossarm Assy, 5" Mtg., 1 Way Front	975-0804-X-5	1	EA	\$412.65	\$412.65
WCH	Supporting bracket & Dowel Mast assy	3565-267-5	1	EA	\$404.25	\$404.25
WCH	Counterweight Pkg, 17'-32', Stud plate, L&R arms	CTWT-AL-32	2	EA	\$1,423.80	\$2,847.60
WCH	Wrench, Torque (KIT)	3590-K-9	1	EA	\$200.55	\$200.55
Wilson Elec	Antenna, 4G Omni Plus Directional Kit	304422-5810	1	EA	\$105.00	\$105.00
					TOTAL	\$114,061.66



Rail Development Commission

Mike DeWine, Governor
Jon Husted, Lt. Governor

Scott Corbitt, Chair

March 21, 2022

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

RE: Grade Crossing Warning Device Improvements
Stark County, CR281/Walnut Street. DOT#142-834X, PID#116043

Dear Mr. Andrews:

A diagnostic review was held at the above grade crossing on August 18, 2021. The crossing has been recommended for the installation of flashing lights and roadway gates.

Wheeling & Lake Erie Railway 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 7), 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 Director, Transportation Department, PUCO
Jill Henry, Rail Division Chief, PUCO
Heather Hamilton, ORDC



ORDC (file)

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



Public Utilities Commission

Mike DeWine, Governor
Jenifer French, Chair

Commissioners

M. Beth Trombold
Lawrence K. Friedeman
Dennis P. Deters
Daniel R. Conway

December 13, 2021

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

Re: Stark County, CR 281/Walnut Street,
DOT#142-834X, hereinafter referred to
as the "Project"

Dear Mr. Andrews:

The Public Utilities Commission of Ohio (PUCO) has identified and the Ohio Rail Development Commission (ORDC) surveyed, on August 18, 2021, the above mentioned grade crossing for warning device upgrades. The location has been approved for flashing lights and roadway gates.

The Project shall comply with Master Warning Devices Agreement No. 0001-A, dated September 17, 1990, & Reconstruction Agreement #6781, dated February 10, 1992, and entered into by the State of Ohio and Wheeling & Lake Erie Railroad (RAILROAD). Furthermore, the RAILROAD shall comply with all applicable state and federal laws governing grade crossing safety programs.

Reimbursable costs will be limited by 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 and 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.

Page 2 of 2
CR 281/Walnut Street
Stark County
Wheeling & Lake Erie Railroad

Please indicate your acceptance of the terms and conditions of this Letter of Agreement by signing and returning one (1) copy to Ms. Jill Henry, Chief, Rail Division, Public Utilities Commission of Ohio, 180 E. Broad Street, Columbus, Ohio 43215-3793 or by e-mail at jill.henry@puco.ohio.gov.

Sincerely,



John D. Williams
Director, Transportation
Public Utilities Commission of Ohio



Matthew Dietrich
Executive Director
Ohio Rail Development Commission

Wheeling & Lake Erie Railroad

By T. A.

Title SAC Supervisor

Date 12-14-21

Date 12/15/2021

8/18/2021

Crossing at a glance:

ORDC Notes:

Please Sign In

James Tucker

Project Manager

ORDC

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

Tim Andrews

WLE

Name	Title	Organization	Signature
		Tandrews@wlerwy.com	Present
	Phone Number	Email	

Shawn Zurfley

PUCO

Name	Title	Organization	Signature
		Shawn.Zurfley@PUCO.ohio.gov	
	Phone Number	Email	

Jeff Vuckovich

EAST SPARTA

Name	Title	Organization	Signature
	330-224-2550		
	Phone Number	Email	

Dan Fregia

Rotech

Name	Title	Organization	Signature
			Dan Fregia
	Phone Number	Email	

Don STROPKI MAYOR

EAST SPARTA

Name	Title	Organization	Signature
			Don Stropki
	330-936-0825		
	Phone Number	Email	

Name	Title	Organization	Signature
	Phone Number	Email	

Name	Title	Organization	Signature
	Phone Number	Email	

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

Date: 8/18/2021

Location Data		
Street or Road Name: CR 281 / Walnut Street		
County: Stark	Township:	US DOT No.: 142834X
City (in or near): East Sparta	Railroad Name: WLE	RR Milepost: 7.05
Safety Data (Obtain crash reports, if possible)		
	Initial Information (from database)	Revised
Number & dates of vehicle crashes in previous 5 years:	n/a	
Number & dates of pedestrian/bicycle crashes in previous 5 years:	n/a	
Hazard Ranking: 1796	Date Run: 06/11/2021	

Existing Traffic Control Devices		
Type of Warning Devices	Installed?	Quantity/Comments
HIGHWAY		
Advance Warning Signs (condition?)	☒ Yes ☐ No	2
'Stop' Signs	☒ Yes ☐ No	on xbucks
'Stop Ahead' Signs	☐ Yes ☒ No	
Pavement Markings (condition?)	☒ Yes ☐ No	2
Dynamic Envelope Markings (condition?)	☐ Yes ☒ No	
Illumination	☒ Yes ☐ No	1
'No Turn' Signs (highway/passive)	☐ Yes ☒ No	
Barriers/fencing (pedestrian/bicycle)	☐ Yes ☒ No	
LOOK Sign	☐ Yes ☒ No	
Do Not Stop On Track Sign	☐ Yes ☒ No	
RAILROAD		
Crossbucks	☒ Yes ☐ No	2
Crossbucks -- assembly with Stop	☒ Yes ☐ No	2
Crossbucks -- assembly with Yield	☐ Yes ☒ No	
Mast-Mounted Flashing Lights	☐ Yes ☒ No	
Cantilever Flashing Lights	☐ Yes ☒ No	Number: Length:
Side Lights	☐ Yes ☒ No	
LED or Incandescent Lights? Size?	☐ Yes ☒ No	
Automatic Gates	☐ Yes ☒ No	Number: Length:
Bells	☐ Yes ☒ No	Number:
Sidewalk/Pedestrian Gate Arms	☐ Yes ☒ No	Number: Length:
'No Turn' Signs (railroad/active)	☐ Yes ☒ No	
Is crossing flagged by train crew?	☐ Yes ☒ No	
OTHER	☐ Yes ☒ No	

Railroad Data		
Type of Train: ☒ Freight ☐ Intercity Passenger ☐ Transit ☐ Shared Use Transit ☐ Commuter ☐ Tourist/Other		
Railroad Characteristics	Initial Information (from database)	Revised
Total trains per day	2	OK
<1 per day? Trains per week	-	
Day thru trains	1	
Night thru trains	1	
Switching	0	
Total number of tracks	1	
Number of main tracks	1	
Number of other tracks	-	
Maximum train speed	25	OK
Typical train speed	15-25	
Amtrak		
Are there other track(s) crossing this same roadway within 100ft of this crossing? ☐ Yes ☒ 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? ☐ Yes ☐ No		
Can one train block the motorists' view of another train at the crossing? ☐ Yes (explain below) ☐ No		
Can one or more tracks be eliminated through the crossings? ☐ Yes ☐ No		
Comments:		
Circuitry: ☐ Constant Warning Time ☐ Motion Detection ☐ AFO ☐ PTC ☐ DC ☐ Other _____		

Roadway Data		
Local Highway Authority: Village of East Sparta		
Roadway Characteristics	Initial Information (from database)	Revised
Average Daily Traffic	1,400 (2007)	
Highway Paved	☒ Yes ☐ No	☐ Yes ☐ No
Roadway Surface: ☒ Blacktop ☐ Gravel ☐ Concrete Other _____		
Roadway width (paved/travelled way): <u>20</u> ft		
Number of Highway Lanes	2	
Urban or Rural	Urban	
Vehicle Speed: <u>25</u> MPH		
School Bus Operation: ☒ Yes ☒ No Amount <u>0</u> LHA states yes but no data		
Location of nearby schools: <u>Sandy Valley schools 2 miles South</u>		
Hazardous Materials Trucks: ☒ Yes ☐ No Amount (from FRA) <u>3%</u> LHA verified/changed?		
Shoulders: ☐ Yes ☒ No		
Is the Shoulder Surfaced? ☐ Yes ☒ No If yes, shoulder width: _____ ft.		
Is there existing guardrail along the roadway in crossing vicinity? ☐ Yes ☒ No		
Crossing Angle ☐ 0-29° ☐ 30-59° ☒ 60-90° Measured in _____ Quadrant?		
Quadrant <u>SW</u> Curb & Gutter:	Quadrant <u>NE</u> Curb & Gutter:	
☐ Functional (Curb height = 4" or more)	☐ Functional (Curb height = 4" or more)	
☐ Non-functional (Curb height = less than 4")	☐ Non-functional (Curb height = less than 4")	
☒ None	☒ None	
Is there a nearby intersection that could cause queuing over the crossing? ☒ Yes ☐ No <u>Cherry Street</u>		
If yes, distance <u>35'</u>		
Is this intersection signalized? ☐ Yes ☒ No		
Are there signals currently interconnected with the existing crossing warning devices? ☐ Yes ☒ No		
Is there a 'Do Not Stop on Track' sign? ☐ Yes ☒ No		
Is a roadway improvement project (e.g. widening, turn lanes, nearby new or upgraded traffic signal, sidewalk) planned at or near this location in the foreseeable future? ☐ Yes ☒ 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:	Farber field
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)	AEP
Nearest Available Power Source	_____ Pole # 904 B4 - 30
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 600'
Is stopping sight distance adequate? (See Table 2)	☒ Yes ☐ No If no, which quadrant? _____ 180'
When considering recommendations for bicycle treatments:	
Bicycle sight distance adequate?	☒ Yes ☐ No If no, which quadrant? _____ 250'
When considering recommendations for pedestrian treatments:	
Pedestrian sight distance adequate?	☒ Yes ☐ No If no, which quadrant? _____ 300'

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.):

Jointed Rail

Environmental:

N/A

Utilities:

overhead and underground in the area

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

☐ No improvements needed	Quadrants Needed
☒ Install/upgrade active devices	
☐ Automatic Flashing Lights (AFLS)	
☐ AFLS / Cants	
☒ AFLS / Gates	SW + NE Quads
☐ AFLS / Gates / Cants	
☒ Bells / number	1 Bell
☐ Upgrade circuitry / type	
☒ Sidelights	
☒ LED Upgrades	12" LED
☐ Guardrail Needed	
☐ Install/Replace curb	
☒ Bungalow placement & offset from rail & highway	SE Quad
☐ Other (define)	

Comments:

☐ Install/upgrade traffic signal preemption

Other (define):

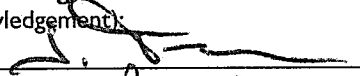
Diagnostic Team Recommendations (cont.)

PEDESTRIAN/BICYCLE Treatments (additional, not included above)

☐ Crossing Surface (specify)	☐ Sidewalk (specify)
☐ Detectable warning surfaces	☐ LOOK Sign (R15-8)
☐ Stop lines	☐ Illumination
☐ Dynamic envelop markings	☐ Channelization
☐ Path delineation	☐ Fencing/barriers
☐ Other	

Comments:

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

 Dan FREGIA
 T. Fregia
 D. Fregia

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.

**This foregoing document was electronically filed with the Public Utilities
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in

Case No(s). 22-0632-RR-FED

Summary: Application In the Matter of a Request for the Installation of Active Warning Devices at the Wheeling & Lake Erie Railroad Grade Crossing, DOT# 142834X, at CR 281 Walnut St. in Stark County, Ohio. electronically filed by Mr. Thomas Persinger on behalf of PUCO/Rail Division