# Public Utilities Commission of Ohio

# Memo

**To:** Docketing Division

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

**Cc:** PUCO Legal Department

**Date:** 3-30-2023

**Re:** PUCO Case No. 23-288-RR-FED- In the Matter of a Request for the Installation of Active Warning Devices at the Indiana & Ohio Railway Company Grade Crossing, DOT# 151-348G at Camargo Road in Hamilton County, Ohio.

On March 25, 2022, the Ohio Rail Development Commission (ORDC) authorized funding for Indiana & Ohio Railway Company to install lights and gates at Camargo Road (DOT#151-348G) in Hamilton County, Ohio. The crossing was surveyed, on August 26, 2021, and was found to warrant the upgrade. The electric utility provider for this crossing is Duke Energy.

The project will be paid for with federal funds and is actual cost. The plans and estimates for the project in the amount of \$267,758.00 have been approved. Construction may commence at once. **Staff requests a Finding & Order with completion of the project in nine months.** Staff requests that the following language be incorporated in the Finding & Order:

It is expected that all work necessary for FHWA acceptance of the warning devices will be completed by the in-service due date and that the <u>railroad will be responsible</u> for this work. This work includes, but is not limited to:

- Any ancillary work to make the warning devices function as designed and visible to the roadway user, and
- MUTCD compliance, including minor roadway work if necessary.

# Please serve the following parties of record:

Indiana & Ohio Railway Company Jared Rishel AVP Engineering Northern Region Genesee & Wyoming Inc. 47849 Papermill Road Coshocton, OH 43812

Alfred Benesch & Company Ben Biesterveld G&W Consultant 4614 Red Fox Road Oshkosh, WI 54904

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

Village of Indian Hill Jon West Assistant City Manager 6525 Drake Road Cincinnati, OH 45243

**Duke Energy** 

# OHIO RAIL DEVELOPMENT COMMISSION INTER-OFFICE COMMUNICATION

TO: John Williams, Chief, Motor Carrier & Rail Enforcement, PUCO

FROM: Allen Bell, Manager, Safety Section, ORDC

BY: Eric Thompson E'

SUBJECT: HAM-Camargo Road, DOT # 151348G PID# 116062

**DATE:** 3/14/2023

The Ohio Rail Development Commission (ORDC) established a diagnostic survey at the subject location on 8/26/2021. The Public Utilities Commission of Ohio (PUCO) attended the review. The Diagnostic Team recommended the improvement of warning devices 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 accepts the site plans and estimates as provided. Please issue a construction-only order for the project outlined above. ORDC recommends a nine (9) month construction timeline. This authorization is made with the stipulation and understanding that an approved estimate may contain entries for items or activities that may be cited and found to be ineligible for federal participation during the project audit.

It is expected that all work necessary for FHWA acceptance of the warning devices will be completed by the in-service due date and that the <u>railroad will be responsible</u> for this work. This work includes, but is not limited to:

- any ancillary work to make warning devices function as designed and visible to the roadway user, and
- MUTCD compliance including minor roadway work if necessary.

Thank you for your assistance with these matters.

Attachment: Diagnostic Review

Letter Agreement PE Authorization

Plan, Estimate & Material List Construction Authorization

c: Jill Henry, Rail Chief, PUCO ORDC Project Manager (file) John Williams, Director Transportation, PUCO



Mike DeWine, Governor Jon Husted, Lt. Governor

Scott Corbitt, Chairman

Date: 3/14/2023

Mr. Len Wagner President & Legal Official (SVP) Genesee & Wyoming/IORY 200 Meridian Centre Suite 270 Rochester, NY 14618

RE: Construction Authorization Grade Crossing Warning Device Improvements

Hamilton County, Camargo Road, DOT#151348G, PID#116062

Dear Mr. Wagner:

The plan dated 1/3/2023 and estimate dated 10/7/2022, for the referenced project is acceptable. Genesee & Wyoming/IORY 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 \$267,758.00. Additional costs must be approved in writing by the Ohio Rail Development Commission (ORDC) prior to being incurred. Emergency verbal authorizations by ORDC may be permitted and will be confirmed by ORDC in writing within ten (10) business days of the verbal approval.

This authorization is contingent upon IORY accepting the following instructions:

- 1. IORY's project foreman will furnish written notification five (5) working days prior to the date work will start at the project site to IORY, ORDC, <a href="mailto:Eric.Thompson@dot.Ohio.Gov">Eric.Thompson@dot.Ohio.Gov</a> (513) 520-2687, and to the Public Utilities Commission of Ohio, email <a href="mailto:Thomas.persinger@puco.ohio.gov">Thomas.persinger@puco.ohio.gov</a>. IORY'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. IORY 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 IORY.
- 3. IORY's project foremen will notify Eric Thompson at (513) 520-2687 or Eric.Thompson@dot.Ohio.gov 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. IORY will furnish two (2) copies of each partial bill to ORDC. Please find the enclosed Purchase Order to reference when billing.
- 6. IORY 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,

Cric Thompson

Eric Thompson Project Manager

Attachment: ODOT P.O.

C: Jill Henry, Rail Division Chief, PUCO ORDC (file)

# INDIANA & OHIO RAILWAY

CAMARGO RD.
INDIAN HILL, (HAMILTON), OHIO
DOT# 151 348G MILEPOST# 17.75

SHEET DESCRIPTION  ØØ TITLE AND INDEX  Ø1 CROSSING TRACK LAYOUT  Ø2 GCP 3ØØØ+ CONTROL & TRACK CIRCUITRY  Ø3 GCP 3ØØØ+ PROGRAM  Ø4 CROSSING CONTROLLER CIRCUITRY  Ø5 DATA RECORDER CIRCUITRY  Ø6 GATES & FLASHERS LIGHTING CIRCUITRY  Ø7 GATE MECH CIRCUITRY  Ø8 DC POWER DISTRIBUTION  Ø9 SIDE D DETAIL & AC POWER DISTRIBUTION  10 SIDE B DETAIL - TERMINAL BOARD  11 SIDE A DETAIL  12 SIDE C DETAIL  13 TRACK AND CABLE LAYOUT  14  15  16  17  18  19  20  21		INDEX
01 CROSSING TRACK LAYOUT  02 GCP 3000+ CONTROL & TRACK CIRCUITRY  03 GCP 3000+ PROGRAM  04 CROSSING CONTROLLER CIRCUITRY  05 DATA RECORDER CIRCUITRY  06 GATES & FLASHERS LIGHTING CIRCUITRY  07 GATE MECH CIRCUITRY  08 DC POWER DISTRIBUTION  09 SIDE D DETAIL & AC POWER DISTRIBUTION  10 SIDE B DETAIL - TERMINAL BOARD  11 SIDE A DETAIL  12 SIDE C DETAIL  13 TRACK AND CABLE LAYOUT  14  15  16  17  18  19  20  21	SHEET	DESCRIPTION
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DATA RECORDER CIRCUITRY  DESCRIPTION  DESCRI	Ø3	GCP 3000+ PROGRAM
06 GATES & FLASHERS LIGHTING CIRCUITRY  07 GATE MECH CIRCUITRY  08 DC POWER DISTRIBUTION  09 SIDE D DETAIL & AC POWER DISTRIBUTION  10 SIDE B DETAIL - TERMINAL BOARD  11 SIDE A DETAIL  12 SIDE C DETAIL  13 TRACK AND CABLE LAYOUT  14  15  16  17  18  19  20  21	Ø4	CROSSING CONTROLLER CIRCUITRY
07 GATE MECH CIRCUITRY  08 DC POWER DISTRIBUTION  09 SIDE D DETAIL & AC POWER DISTRIBUTION  10 SIDE B DETAIL - TERMINAL BOARD  11 SIDE A DETAIL  12 SIDE C DETAIL  13 TRACK AND CABLE LAYOUT  14  15  16  17  18  19  20  21	Ø5	DATA RECORDER CIRCUITRY
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Ø9 SIDE D DETAIL & AC POWER DISTRIBUTION  1Ø SIDE B DETAIL - TERMINAL BOARD  11 SIDE A DETAIL  12 SIDE C DETAIL  13 TRACK AND CABLE LAYOUT  14  15  16  17  18  19  20  21	Ø7	GATE MECH CIRCUITRY
10 SIDE B DETAIL - TERMINAL BOARD  11 SIDE A DETAIL  12 SIDE C DETAIL  13 TRACK AND CABLE LAYOUT  14  15  16  17  18  19  20  21	Ø8	DC POWER DISTRIBUTION
11 SIDE A DETAIL 12 SIDE C DETAIL 13 TRACK AND CABLE LAYOUT 14 15 16 17 18 19 20 21	Ø9	SIDE D DETAIL & AC POWER DISTRIBUTION
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REVISIONS

THE OPERATION OF THE CIRCUITS AND EQUIPMENT REPRESENTED HEREIN CANNOT BE FULLY CHECKED UNTIL ALL CIRCUITS AND DEVICES CONNECTED TO FORM A COMPLETE SYSTEM, OR AN EFFECTIVE SUBSYSTEM. SUCH SYSTEM OR SUBSYSTEM WIST BE GIVEN COMPLETE CIRCUIT AND

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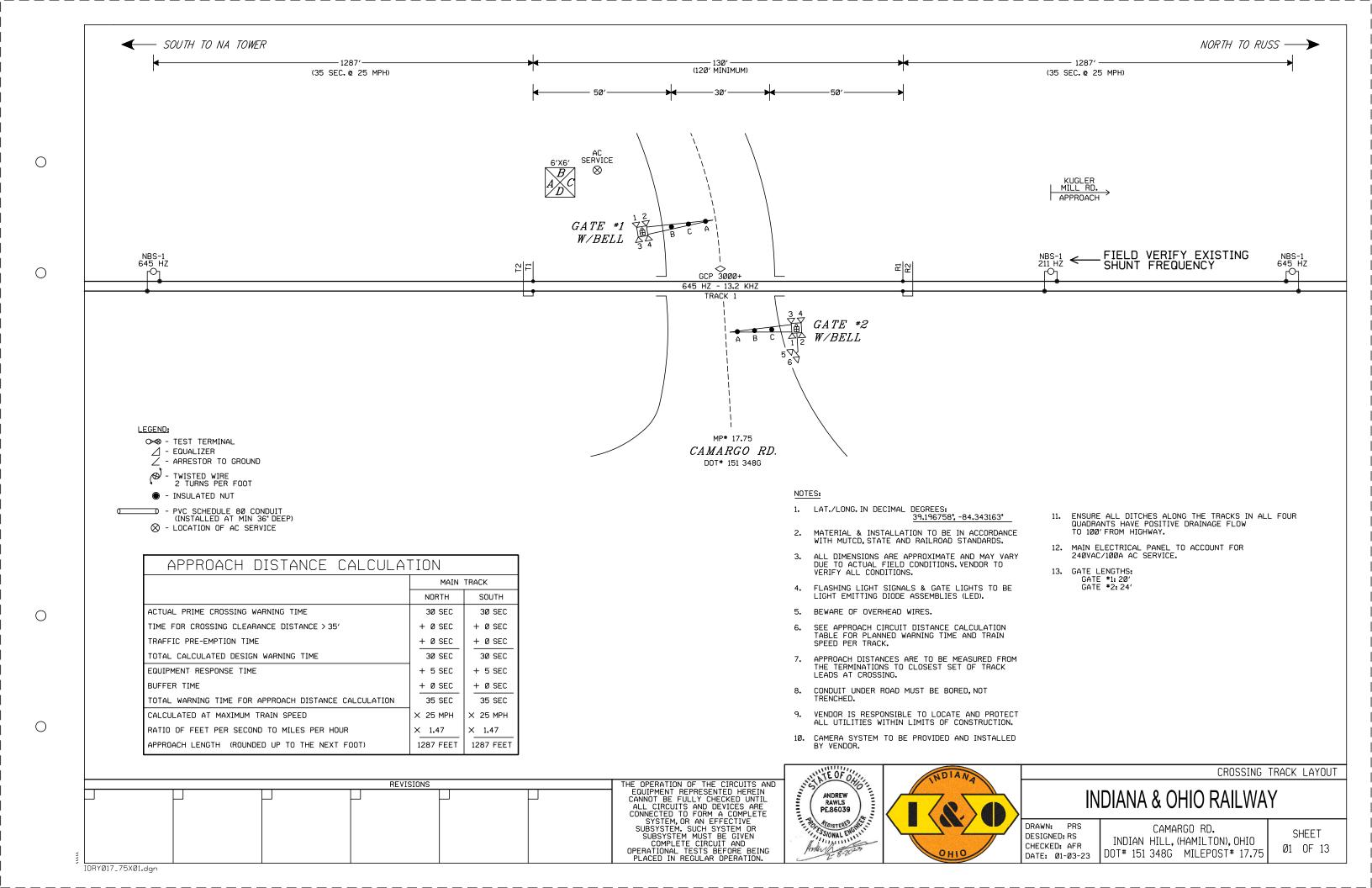
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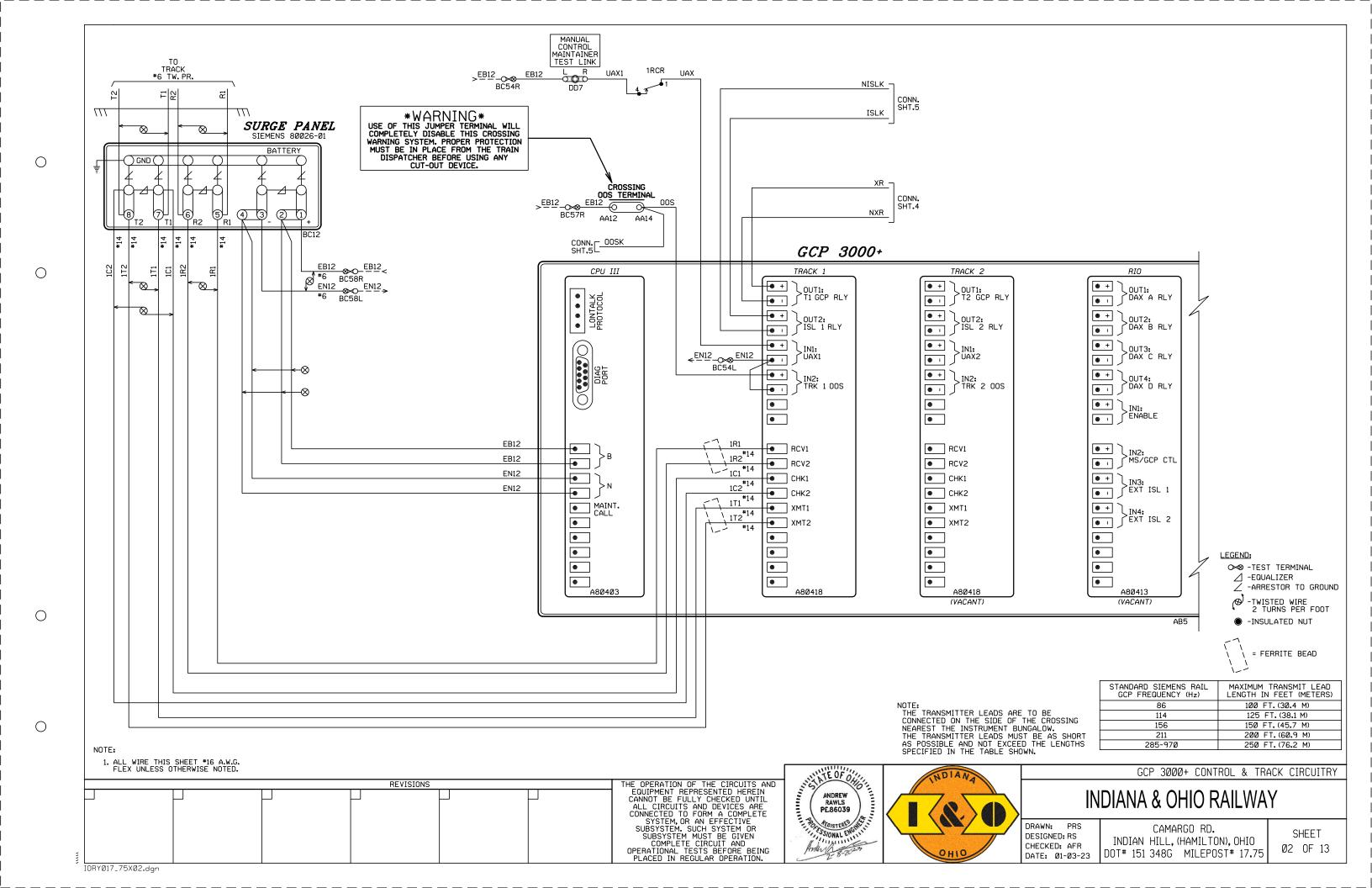
# INDIANA & OHIO RAILWAY

DRAWN: PRS
DESIGNED: RS
CHECKED: AFR
DATE: Ø1-Ø3-23

CAMARGO RD.
INDIAN HILL, (HAMILTON), OHIO
DOT# 151 348G MILEPOST# 17.75

SHEET ØØ OF 13

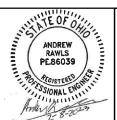




# GCP 3000+ PROGRAM TO BE DONE AT LATER DATE

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

REVISIONS





GCP 3000+ PROGRAM

# **INDIANA & OHIO RAILWAY**

DRAWN: PRS
DESIGNED: RS
CHECKED: AFR
DATE: Ø1-Ø3-23

CAMARGO RD.
INDIAN HILL, (HAMILTON), OHIO
DOT# 151 348G MILEPOST# 17.75

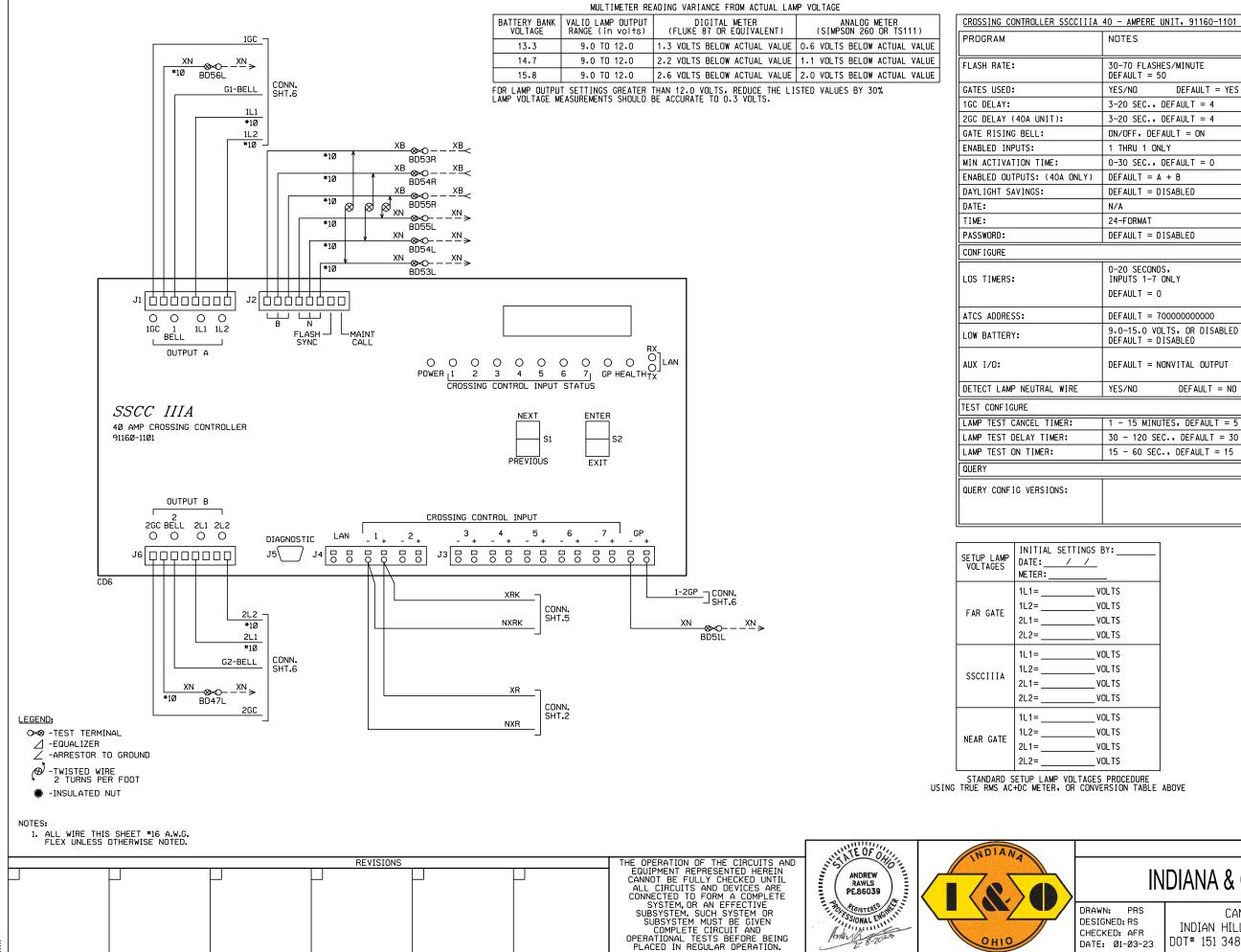
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CROSSING CONTROLLER CIRCUITRY

INITIAL SETTING BY:

□ NO

☑ OFF

SECONDS

SECONDS

SECONDS

☑1 □2 □3 □4 □5 □6 □7

□ DISABLED

☑ DISABLED

6: N/A SEC.

7: N/A SEC.

VOLTS

FLASHES/MINUTE

DATF:

☑ YES

 $\square$  ON

⊡∕A + B

☑ ENABLED

□ DATE SET

□ TIME SET

□ ENABLED

1: <u>0</u> SEC. 2: <u>N/A</u> SEC.

3: N/A SEC.

4: N/A SEC.

☑ DISABLED

□ ENABLED

☑ NV OUTPUT

□ FLASH SYNC IN

□ YES ☑ NO

30

15

MCF CRC:

□ FLASH SYNC OUT

MINUTES

SECONDS

SECONDS

MCF NAME: BASIC.MCF.F

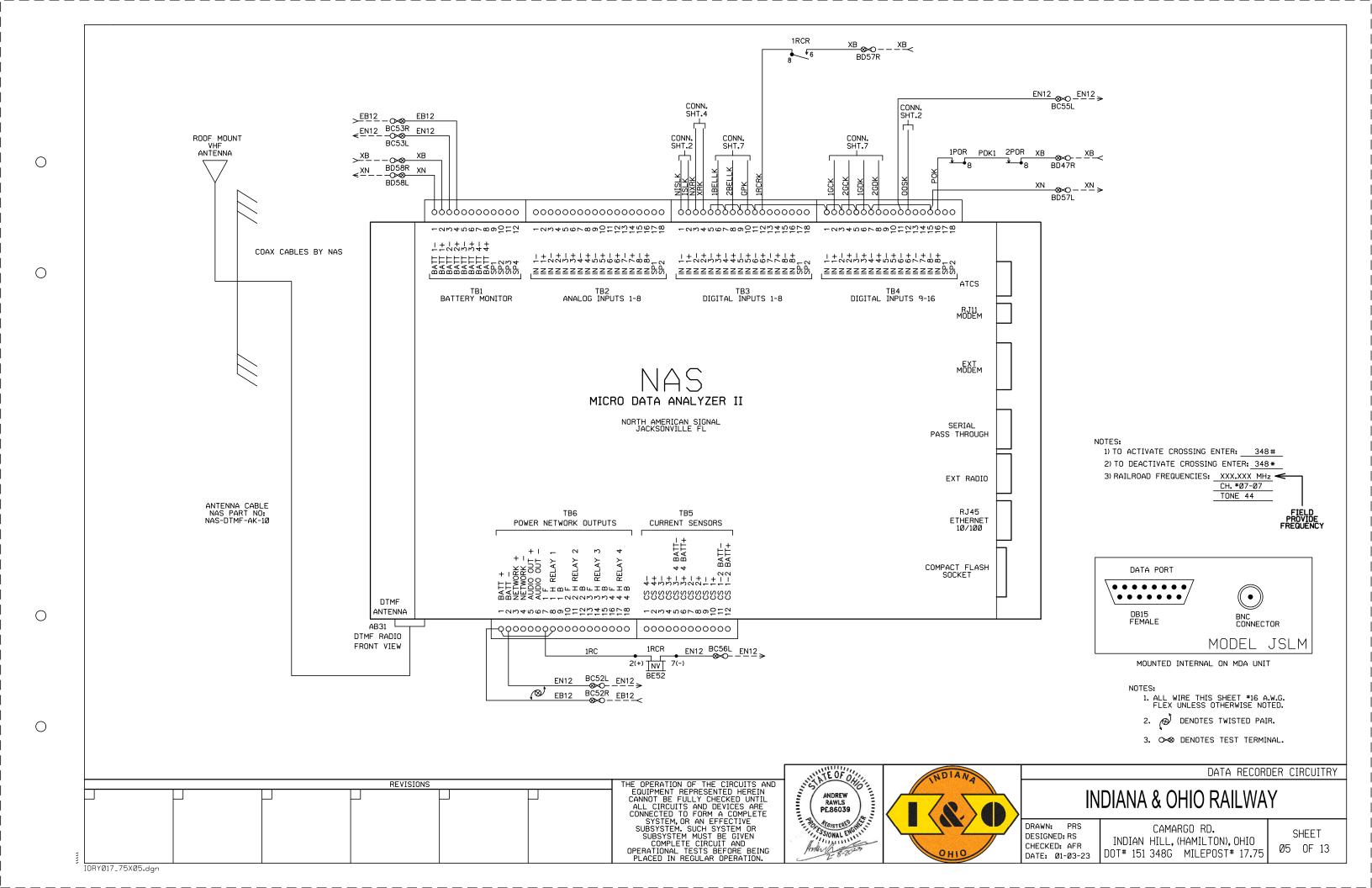
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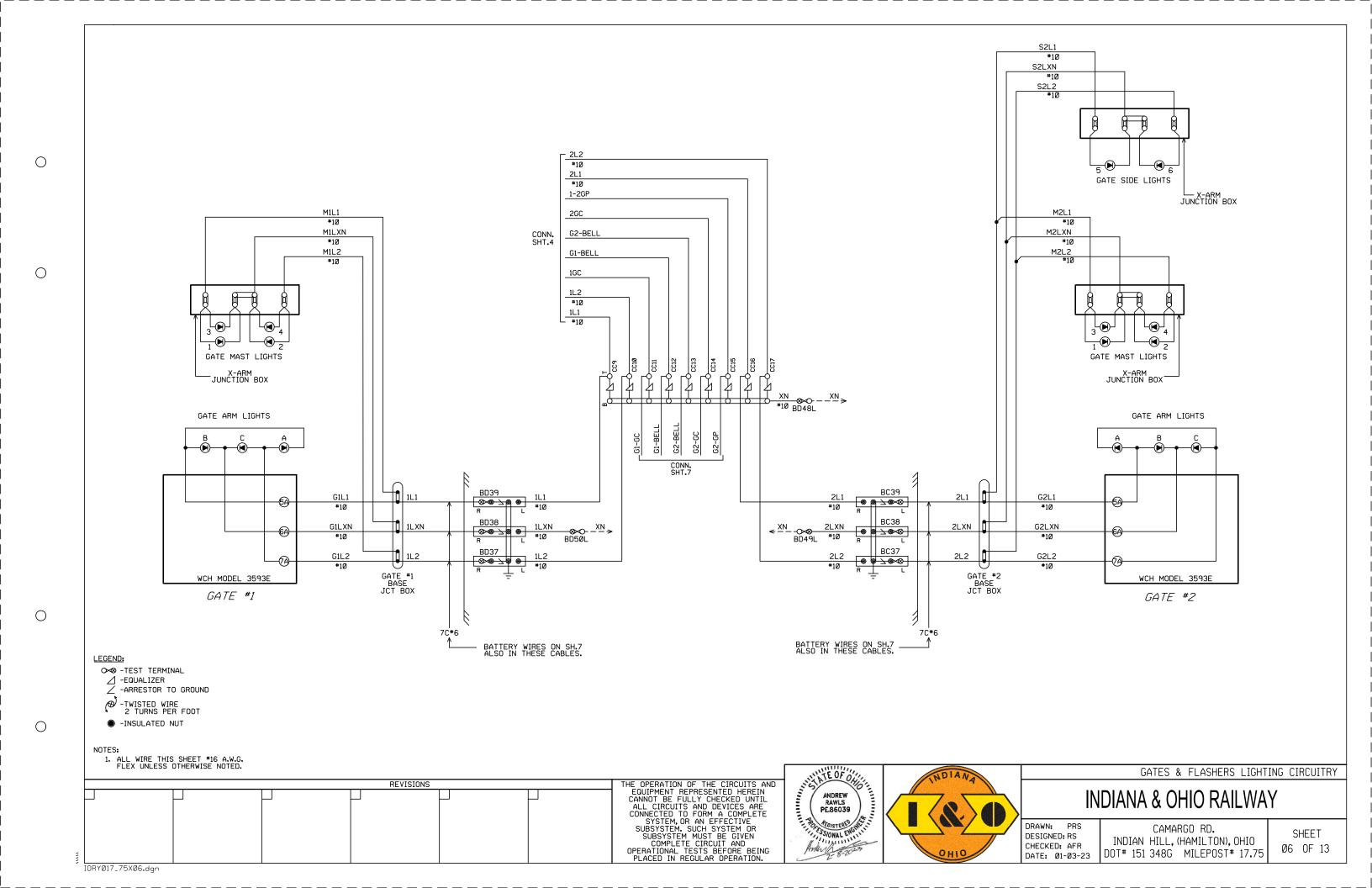
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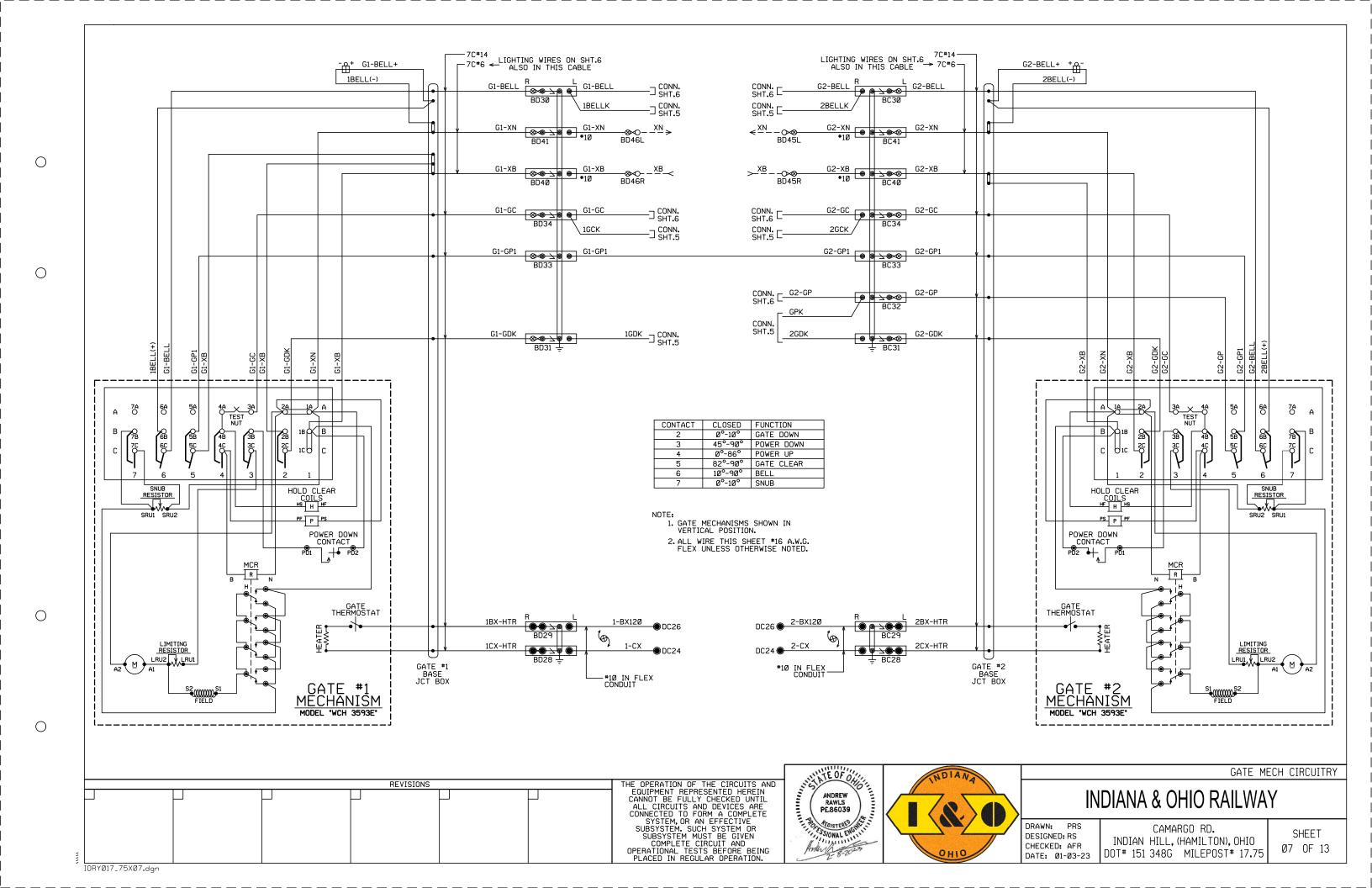
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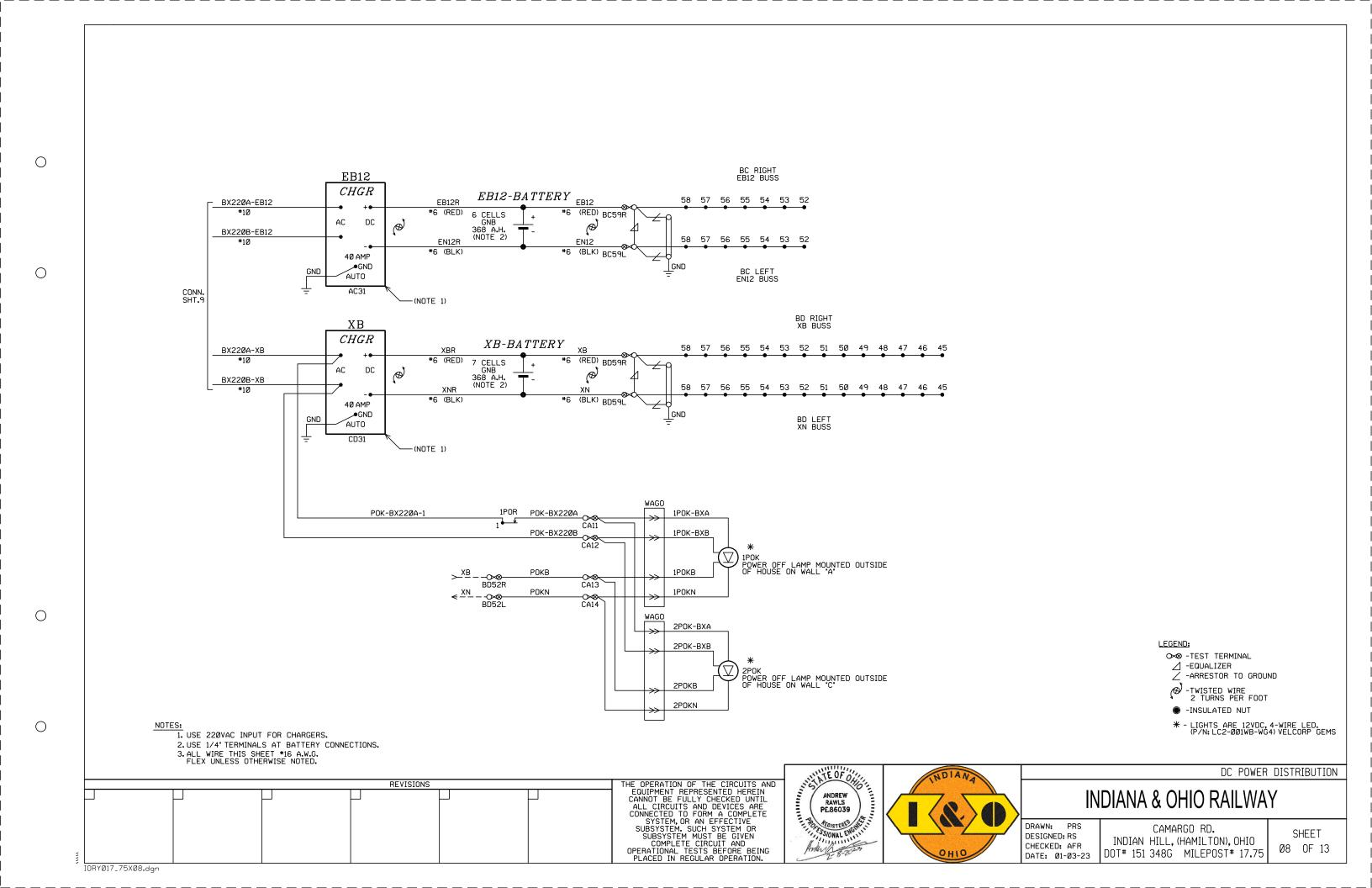
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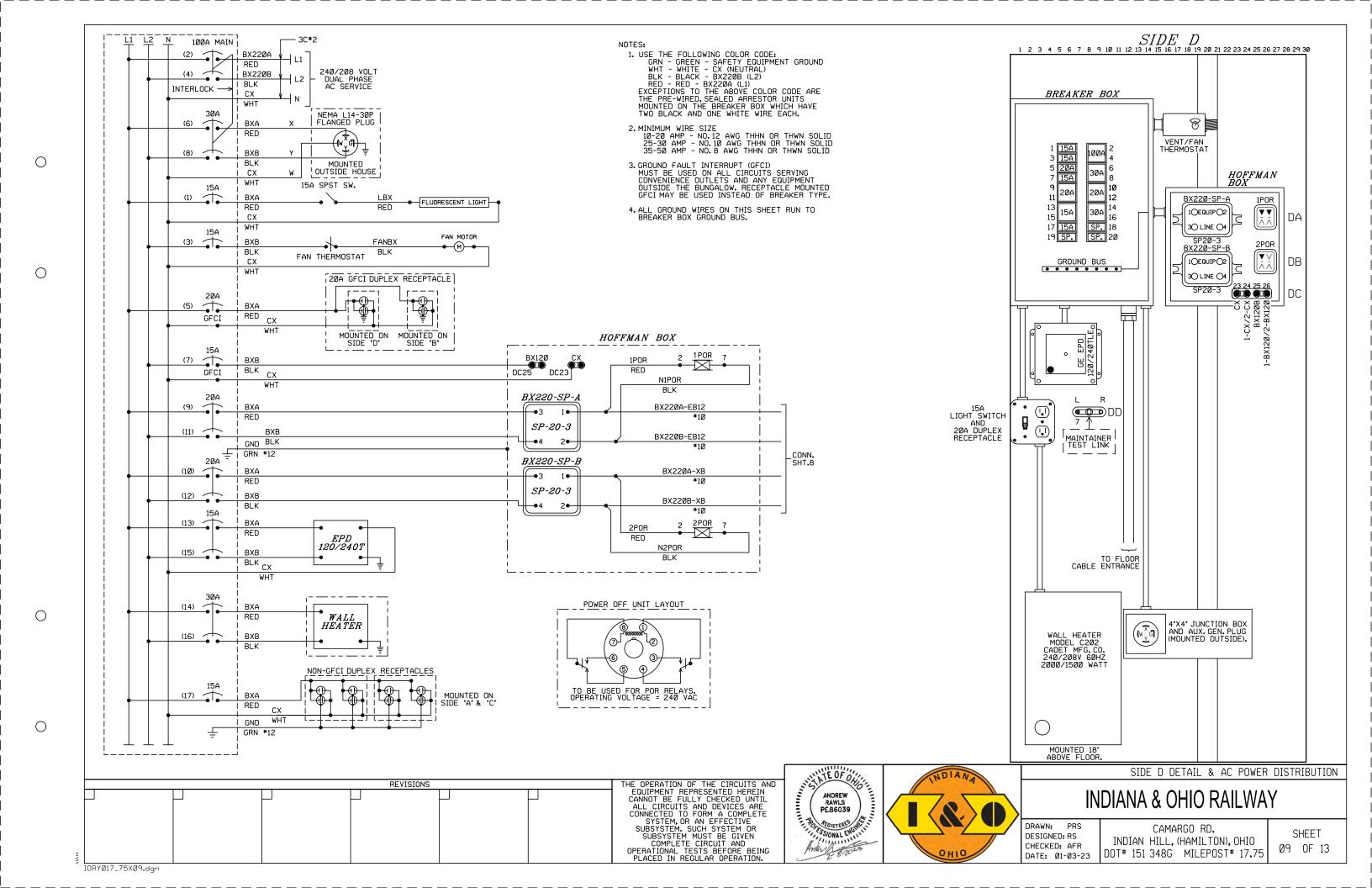
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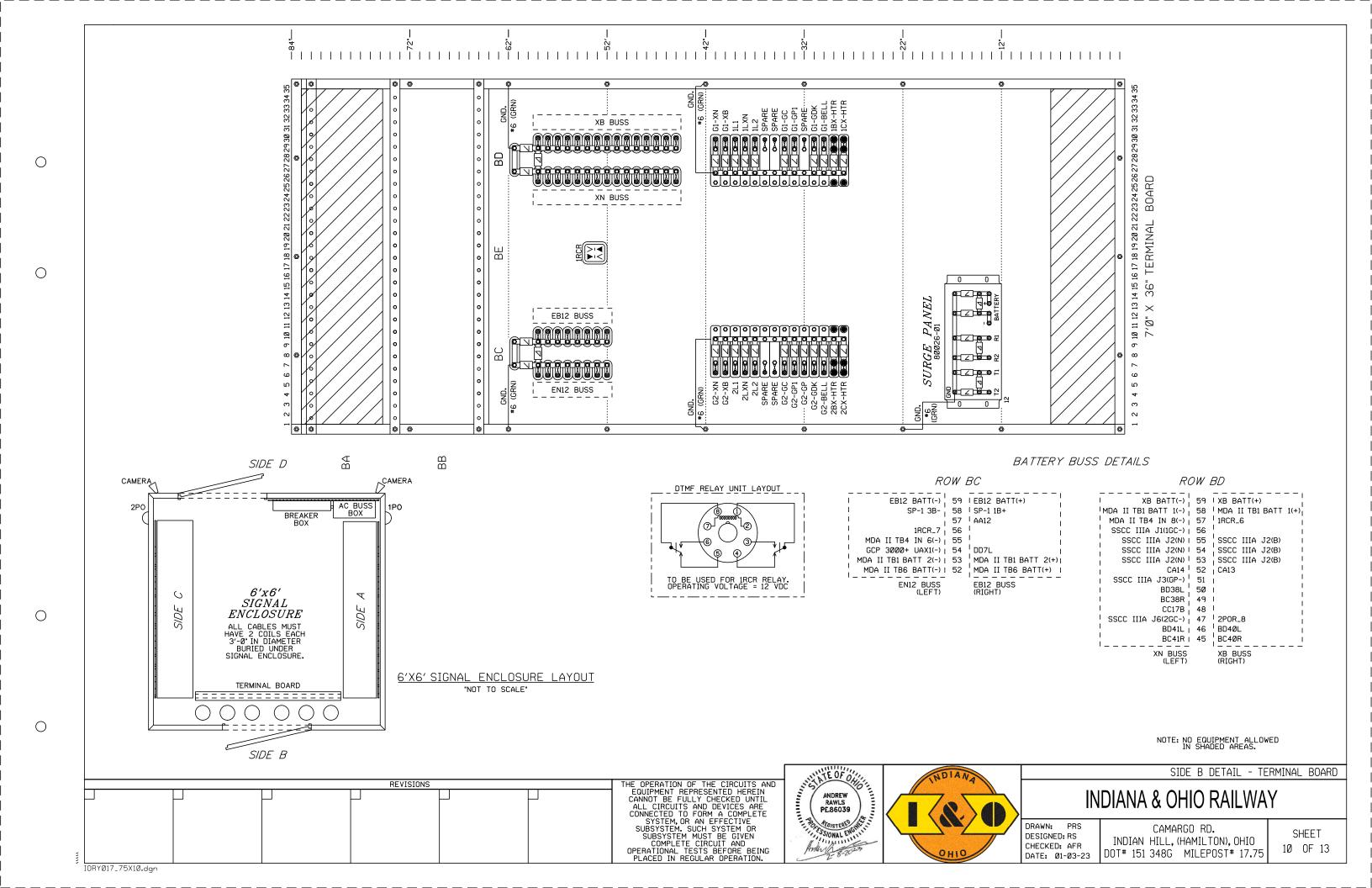


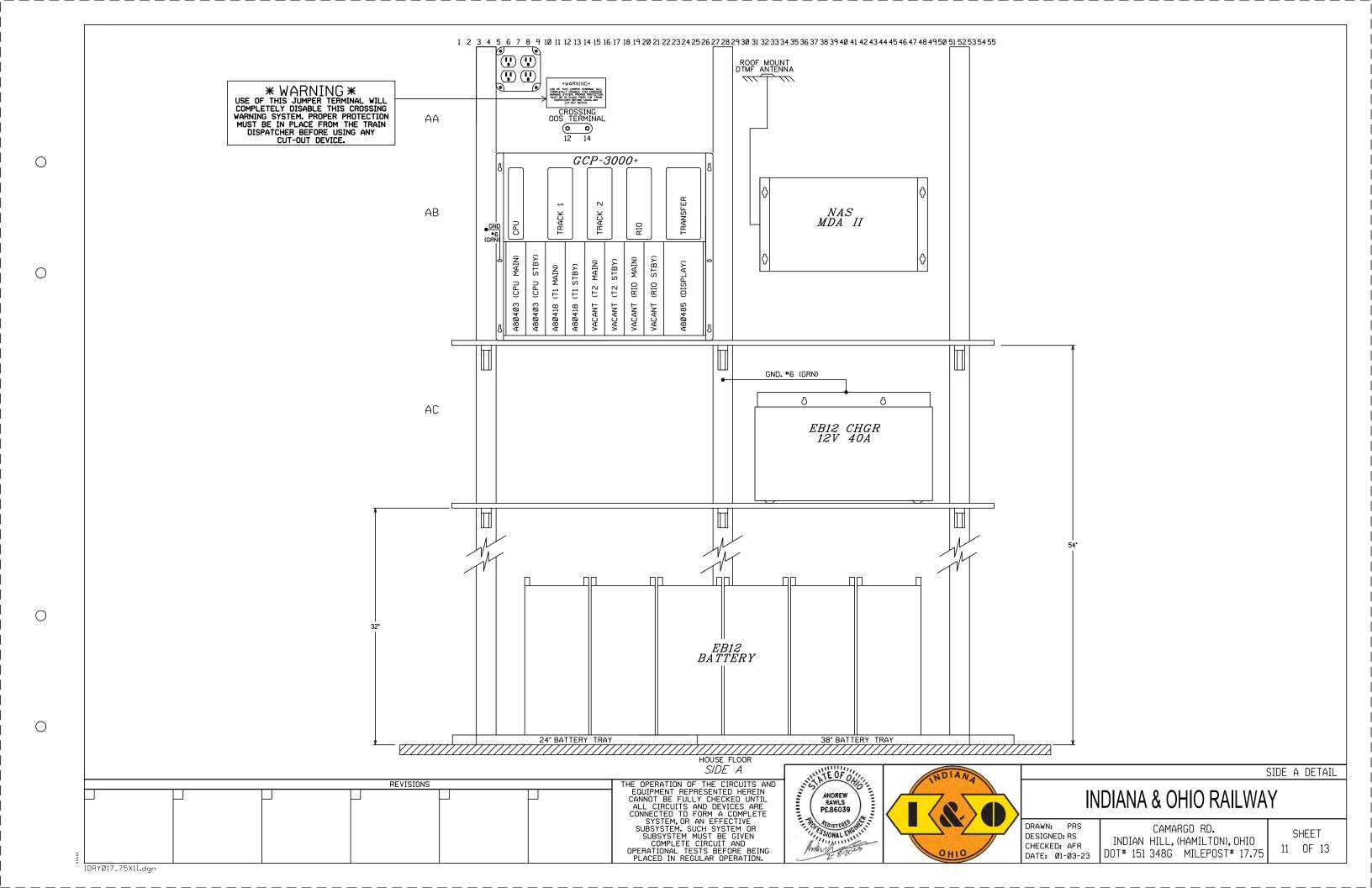


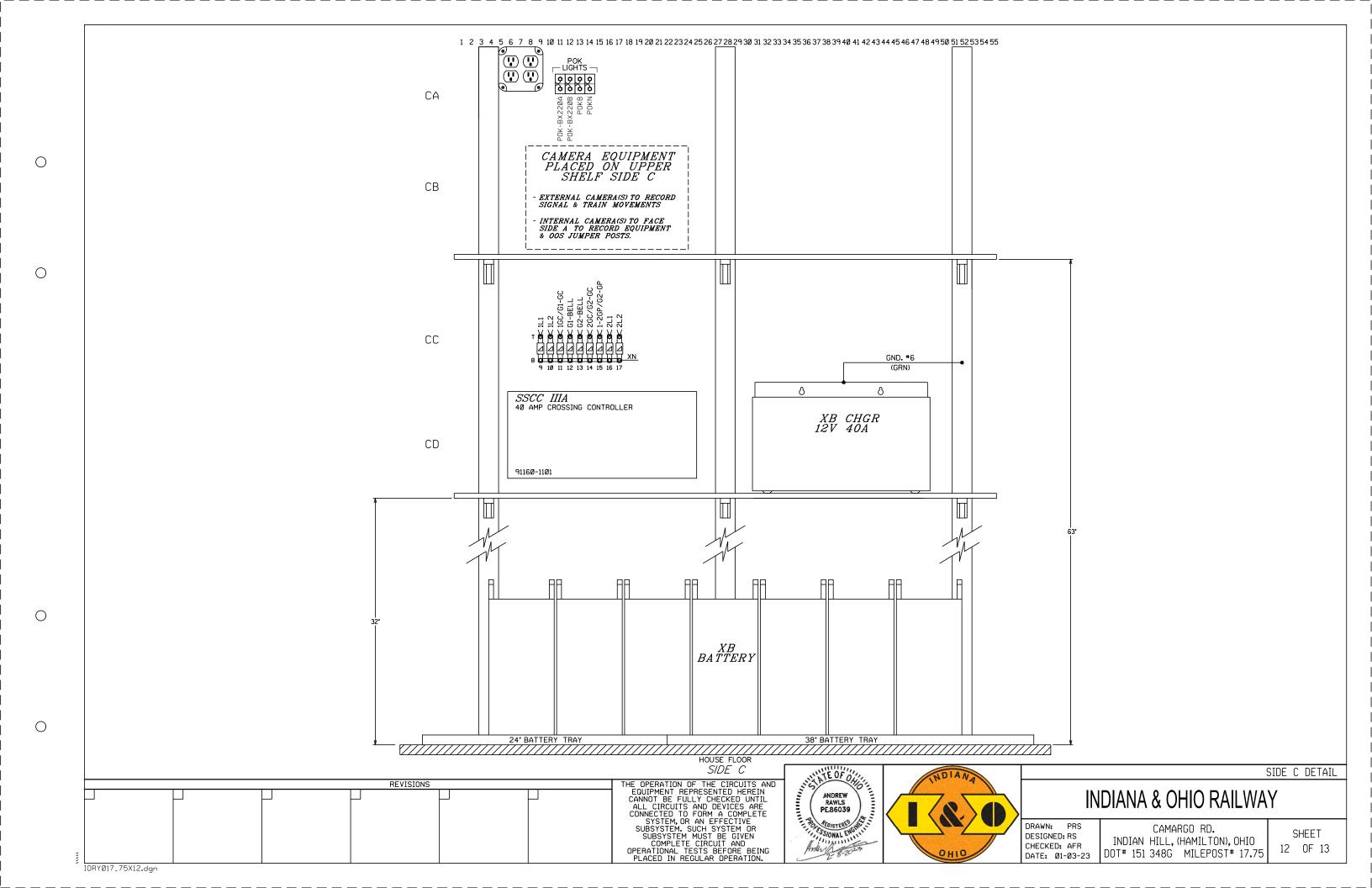


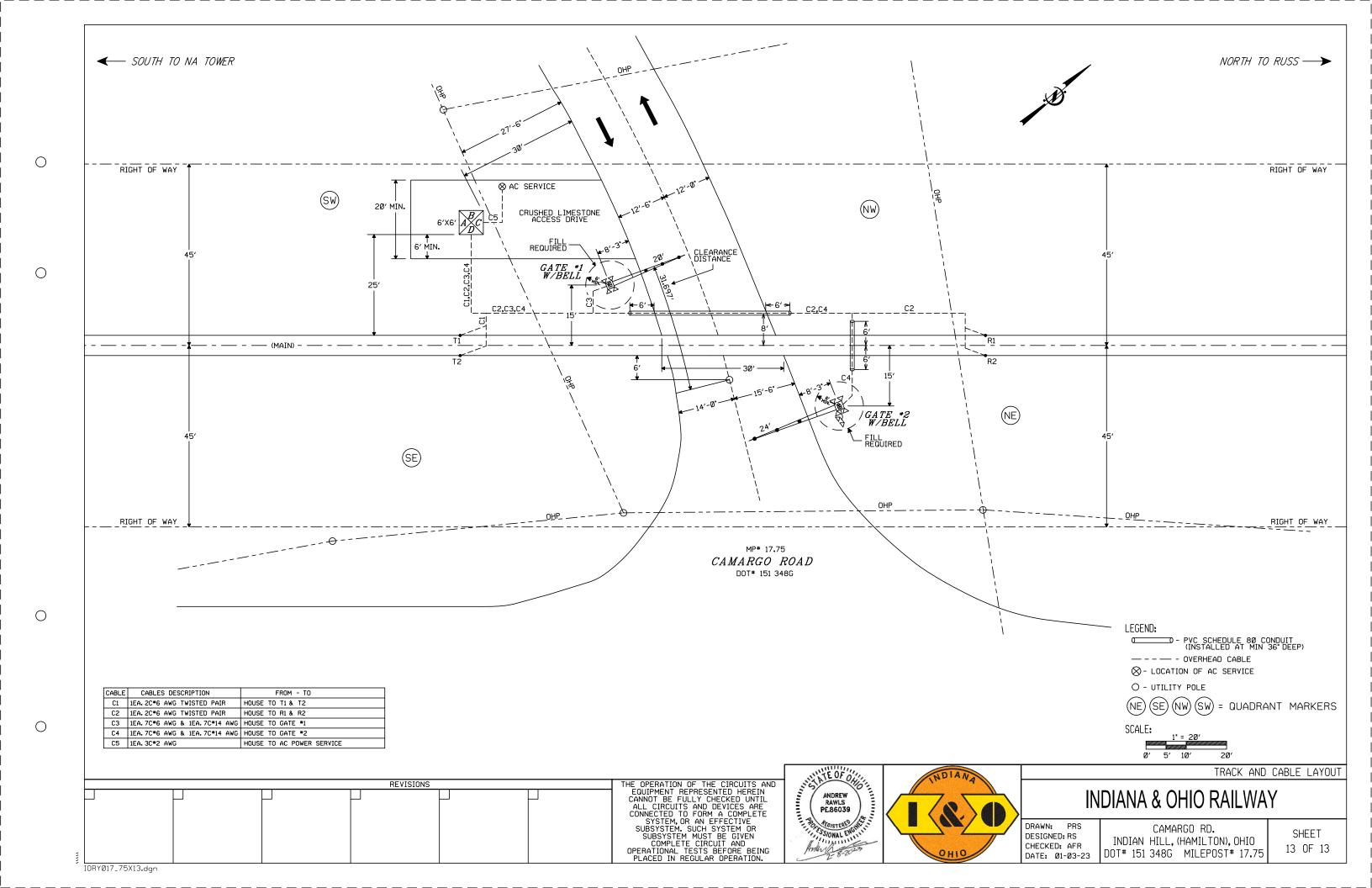












# **Force Account Estimate**

**Estimate to Complete** 

Railroad:	Indiana & Ohio Railway Compa	ny (IORY) R	egion: NO	RTHERN
Agency:	ORDC	<u>.,, ()</u>	State:	OH
DOT #:	151348G	CO	UNTY: H	amilton
ROADWAY:	Camargo Road			dian Hill
Remove	on of 12" LED FLS&G, bells, 1-wa 4 signal poles, cut down dogwood			
AGENCY PROJECT NUMBER	vo 19.6' rail plugs, NBS.  R: Pending	ESTIMATE SUBJECT TO	O REVISION AFTER:	04/05/23
PRELIMINARY ENGINEERING: Contracted & Administrative Engine	ering Services		9	14,800
Subtotal			Ş	14,800
CONSTRUCTION & CLOSEOUT:				
Contracted & Administrative Engine	ering Services		9	
Subtotal			Ş	12,100
FLAGGING SERVICE:		_		
Contracted or Railroad Flagmen Ser	vices <u>10</u>	Days	9	
Subtotal			Ş	14,000
UTILITY WORK:			a	40,000
Power Service Other			9	
Subtotal			9	
Subtotal			-	10,000
CONTRACT WORK: Outside Services			Ç	
Design & Labor & Material			9	
Subtotal				
RAILROAD TRACK:				
Labor & Material			Š	-
Subtotal				
RAILROAD SIGNAL & COMMUNIC	ATION:			
Labor & Material			Ç	-
Subtotal			3	-
PROJECT SUBTOTAL:			Ş	
Public Project Admin:	0.00%			
Contingencies:	0.00%		Ç	-
PROJECT TOTAL:	***********	********	Ş	267,758
<b>CURRENT AUTHORIZED BUDGET</b>	*************	*********	<u> </u>	
TOTAL SUPPLEMENT REQUESTE	<u>:D:</u> ***********************************	*********	5	267,758
DIVISION OF COST:				
Agency	<u>100.00%</u>		Ş	267,758
Railroad	0.00%		Ç	
NOTE E 4: 4 : 1 E E E				

NOTE: Estimate is based on FULL CROSSING CLOSURE during work by Railroad Forces & Contractors.

This estimate has been prepared based on site conditions, anticipated work duration periods, material prices, labor rates, manpower and resource availability, and other factors known as of the date prepared. The actual cost for the railroad work may differ based upon the agency's requirements, their contractor's work procedures, and/or other conditions that become apparent once construction commences or during the progress of the work.

Estimated prepared by: BPB Approved by: **Public Project Department** 

DATE: <u>12/21/21</u> REVISED: <u>10/07/22</u> DATE: 10/07/22

Factory Wired Instrument Shelter					
ITEM DESCRIPTION	O.E.M.	LN Item #	QTY	U/M	
Alum. 6' x 6', Shelter G&W Crossing W/O NEMA PLUGS	PTMW	9485000216	1	EA	
Hex. Railroad Lock	SIEMENS	9463001200		EA	
Camera Material 5 Cam,19" Mon,4 TB HD Package	Porter Security	9409011494		EA	
Power Off Light, LED, 4 Wire	GRAYBAR	9430500215		EA	
Grade Crossing Processor (GCP-3000+) 2-CPU3, 2-TRK, 1-DISP, 1-XFER, 1-SPI ECD	SIEMENS	9409011840		EA	
Surge Panel Track & Battery	SIEMENS	9409010533		EA	
SSCC-IIIA Crossing Controller, 40 Amp, 19" Mounting Plate SSCC-IIIA 40A, 19" Rack	SIEMENS	9429000113		EA	
Lightning Arrester, Clearview	SIEMENS	9409020353		EA	
Heavy Duty Equalizer	SIEMENS	9409020300	_	EA	
AC Line Surge Protector, Model SP20-3, 240Vac	SIEMENS	9409020300		EA	
Panduit Duct, 2' X 3', 2 inch	GRAYBAR	9422040105		FT	
Panduit Cover, 2' X 3', 2 inch	GRAYBAR	9422040103		FT	
Panduit Duct, 2' X 3', 3 inch	GRAYBAR	9422040103		FT	
Panduit Cover, 2' X 3', 3 inch	GRAYBAR	9422040103		FT	
#10 TC Blue Flex Wire	GRAYBAR	9450030600	600		
#16 TC Blue Flex Wire	GRAYBAR	9422010201	700		
#10/12 AMP Eyelets	GRAYBAR	9422020223		EA	
	GRAYBAR	9422020223		EA	
#14/16 AMP Eyelets					
#6 AWG THHN Strand Red	GRAYBAR	9422001183	100		
#6 AWG THHN Strand Black	GRAYBAR	9422001184	100		
#6 AWG THHN Strand Green	GRAYBAR	9422001180		FT	
#10 AWG THHN Solid Red	GRAYBAR	9422001177		FT	
#10 AWG THHN Solid White	GRAYBAR	9422001179		FT	
Recorder, Micro Data Analyzer II w/ DTMF	N A Signal	9409010705		EA	
Insulated Nut	TWINCO	9409050504		EA	
Relay, NV, 12VAC, 2FB (8 PINS)	GRAINGER	9409020273		EA	
Relay, NV, 240VAC, 2FB (8 PINS)	GRAINGER	9409020265		EA	
Socket, Relay (8 PINS) OCT Screw	Allied Electronics	9409020329		EA	
Battery Charger, 12V / 40A	NRS	9409080113		EA	
4 Post Terminal Block w/ Hardware	ERICO	9409020380		EA	
Buss Strap Grd Assy.	ERICO	43001142		EA	
Tags, Slip On	GRAYBAR	9422990050		Roll	
Stick-On Stencil	Cadillac Sign Co.	940000078		EA	
Test Link, 1" Offset w/Gold Nut	REBEL RAILWAY	9409021104		EA	
Terminal Block, 2 x 6 w/flat nut only	ALSTOM	9473000102		EA	
Terminal Block, 1 x 12 w/flat nut only	ALSTOM	9473000100		EA	
Terminal Block, 2 post 2-3/8" w/flat nut only	TWINCO	9473000104	_	EA	
1/4" Bevel Washer	WURTH SNIDER	9473000700	300	EA	
1/4-24 Clamp Nut Nickel	WURTH SNIDER	9473000705	150	EA	
Binding (Barrel) Nuts	WURTH SNIDER	9401037900	300	EA	
#6 Non-Insulated Terminal Eye 5/16 stud	GRAYBAR	9422020210	8	EA	
#6 Non-Insulated Terminal Eye 1/4 stud	GRAYBAR	9422020200	30	EA	
Maintainer Test Switch, 3 post test terminal	L&W	9410002070	1	EA	
Strap, Solid, 1" Centers	TWINCO	9473000110	5	EA	
Strap, Solid, 2-3/8" Centers	L&W	9473000120	5	EA	
Buss Strap, 1" Centers 36 Hole	TWINCO	9473005100	2	EA	
Circuit Plan Holder	Village Supplies	9401001050	1	EA	

Gate/Flasher Material				
ITEM DESCRIPTION	O.E.M.	LN Item #	QTY	U/M
Cinnal 4			_	
Signal 1 12" Head w/24" Background & Hood (Painted AL)				
Terminal For LED Hook-up (For larger RDG & GE LED)	WCH	0451000610		
		9451000610		EA EA
12" LED Highway Crossing Light (HD)	GE Lighting	9451000523		
Alum. Mast, 5" x 16', Base Hole 0 & 180 Degrees & Main Hole 90 Degrees	Progress	9413022512		EA
Signal Mast Grounding w/ 72" pigtail #6 solid	Erico	9413040011		EA
JCT. Box Base, 5" W/2"NPT Cap	Progress	9420001102		EA
2-Way Cross Arm Assembly Less Heads (Gate Flasher)	Progress	9451050304		EA
5" Crossarms Assembly Mounting Kit	Progress	9451080005		EA
Railroad Crossing Sign, HI	Progress	9460001104		EA
5" Mounting Kit for Railroad Crossing Signs w/Extension Bracket	Progress	9460005050	1	EA
Gate 3593E Mechanism Assembly, including the 5" Mast Mounting Hardware, Flex				
Conduit, with fittings, <b>Long Arm Supports</b> & Counterweight kit for 16' - 24' Arms W/Gate Heaters	W-C-H	9450010184		EA
Insulated Nut	TWINCO	9409050504		EA
Test Link, 1" Offset w/Gold Nut	REBEL RAILWAY	9409021104		EA
Wiring Harness 18'6" Bell	Progress	9454100133	1	EA
Wiring Harness 12' Light	Progress	9454100135	1	EA
Wiring Harness 8' Mech (STD)	Progress	9454100136	1	EA
Gate Arm Wind Bracket, 36"	NEG	9450030203	1	EA
Conversion Bracket Plain w/hardware	NEG	9459001132	1	EΑ
Hex. Railroad Lock	SIEMENS	9463001200	1	EΑ
Gate/Flasher Pallet	J&J Pallet	9441001350		EA
Signal 2	000 1 001	0111001000		
12" Head w/24" Background & Hood (Painted AL)				
Terminal For LED Hook-up (For larger RDG & GE LED)	WCH	9451000610	6	EA
12" LED Highway Crossing Light (HD)	GE Lighting	9451000523		EA
4" or 5" Custom Flashing Light Standoff Bracket	Progress	9451060126		EA
5" U Bolt for Mounting Crossarms assembly to Mast (2 per Standoff Bracket)	Progress	9401074647		EA
Alum. Mast, 5" x 18', Base Hole 0 & 180 Degrees & Main Hole 90 Degrees	Progress	9413022560		EA
Signal Mast Grounding w/ 72" pigtail #6 solid	Erico	9413040011		EA
				EA
JCT. Box Base, 5" W/2"NPT Cap	Progress	9420001102		_
2-Way Cross Arm Assembly Less Heads (Gate Flasher)	Progress	9451050304		EA
1-Way Cross Arm Assembly Less Heads Side Light	Progress	9451050414		EA
4" Crossarms Assembly Mounting Kit	Progress	9451080004		EA
5" Crossarms Assembly Mounting Kit	Progress	9451080005		EA
Railroad Crossing Sign, HI	Progress	9460001104		EA
5" Mounting Kit for Railroad Crossing Signs w/Extension Bracket	Progress	9460005050	1	EA
Gate 3593E Mechanism Assembly, including the 5" Mast Mounting Hardware, Flex				
Conduit, with fittings, Long Arm Supports & Counterweight kit for 16' - 24' Arms W/Gate Heaters	W-C-H	9450010184	1	EA
Insulated Nut	TWINCO	9409050504		EA
Test Link, 1" Offset w/Gold Nut	REBEL RAILWAY	9409021104	18	EA
Wiring Harness 18'6" Bell	Progress	9454100133	1	EA
Wiring Harness 12' Light	Progress	9454100135	2	EA
Wiring Harness 8' Mech (STD)	Progress	9454100136	1	EA
Gate Arm Wind Bracket, 36"	NEG	9450030203	1	EΑ
Conversion Bracket Plain w/hardware	NEG	9459001132		EA
Hex. Railroad Lock	SIEMENS	9463001200		EΑ
Gate/Flasher Pallet	J&J Pallet	9441001350		EA
			† ·	

Ground Material					
ITEM DESCRIPTION	O.E.M.	LN Item #	QTY	U/M	
Insulated Terminal Wrench, 1/2" / Triangle	GRAYBAR	9473000518	1	EA	
Plugboard Terminal Wrench	SIEMENS	9473000508		EA	
Battery Tray (12" x 38")	J&A	9409060101	-	EA	
Battery Tray (12" x 24")	J&A	9409060126	_	EA	
Battery, 368 Amp Hour	GNB	9429005150		EA	
Electronic Bell, 5" MTG.	GSI	9465000154	_	EA	
Gate Arm Light Kit w/LED Bulbs and wire, 3 per set	NEG	9450030494		EA	
G&W, Lamp Cord Mounting Clamps	RECO	9450030560		EA	
G&W, Lamp Cord Mounting Clamps	RECO	9450030561		EA	
G&W Gate Arm 30' or Less, NON-HWP, 16' Al Base sec (HI Intensity), 3' Sleeve	NEG	9450030266		EA	
G&W Gate Arm 30' or Less, NON-HWP, 16' Fg 2nd sec (HI Intensity)	NEG	9450030267		EA	
48" Tall Galv. Steel Gate Foundation w/32" Square Base w/4" Entrance Pipe welded on bottom of to	FAB Metals	9417002040		EA	
5" Jct. Box Base Shroud	Progress	9454030094	_	EA	
Track Cable, #6 Tw. Pr. (150-12-3933)	GRAYBAR	9422001106	250		
Signal Cable, 7/C # 6 AWG (206-11-6247)	GRAYBAR	9422001580	250		
Signal Cable, 7/C #14 AWG (206-11-6887)	GRAYBAR	9422001574	250		
AC Cable, 3/C # 2 AWG (112-10-3874)	GRAYBAR	9422001589	100		
Railroad Emergency Contact Sign - Reference Spec Prior to Ordering	Saf-Ti-Co	9400000079		EA	
5" Mounting Kit for Railroad Crossing Signs w/Extension Bracket	Progress	9460005050	_	EA	
Copperweld Ground Rod, 5/8" X 8'	Erico	9409050512	_	EA	
Cadweld One Shot, 5/8" (HALO) Triple	Erico	9410001231	_	EA	
Cadweld One Shot, 5/8" (SIGNAL) Single	Erico	9410000274		EA	
Track Connector, Web, 4"	Erico	9410003011		EA	
Track Connection Kits	Progress	9410002051		EA	
Track Wire Retainer Clip, Erico #SBA248B	Erico	9410006111		EA	
Shunt, NBS-1 (645 Hz)	ALSTOM	9410004044	2	EA	
39' 136RE Rail Plugs	Progress	TBD		EA	
19'-6" 136RE Rail Plugs	Progress	TBD		EA	
4" PVC Sch. 80 Conduit	B&S	TBD		FT	
Hose, Red Ruber 3/4 Inch Hose (15' Per Track Connection Pair)	Grainger	9469023011		FT	
AC Meter Base, Breaker Box, W.H. & Pole	Commercial	TBD		EA	
Dress Stone	Local	N/A	2	EA	
Fill	Local	N/A	2	EA	
Sleeve, 3/16 - 3/16 & 3/16 - #6 Tinned	Erico	9410001010		EA	
Duct Seal	Local	9410000502		LB	
Bond Strand, Erico# SBS8TLINS664	ERICO	9422030010		FT	
No Oxide Grease	SIEMENS	9410006010	_	EA	
Anti-Seize - Silver Grade 4 OZ	Bearing Head	9410006020		EA	
#6 Bare Copper	Grainger	9422000010	50	FT	



Mike DeWine, Governor Jon Husted, Lt. Governor

Scott Corbitt, Chair

DATE: 3/25/2022

Indiana & Ohio Railway Company MR. Jared Rishel AVP Engineering Northern Region Genesee & Wyoming Inc. 4349 Eaton Way Suite 110 Columbus, OH 43219

RE: Grade Crossing Warning Device Improvements Hamilton County, Camargo Rd., DOT# 151348G PID# 116062

Dear Mr. Rishel:

A diagnostic review was held at the above grade crossing on 8/26/2021. The crossing has been recommended for the installation of lights and gates.

Indiana Ohio Railway (IORY) 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 Eric Thompson. Eric can be reached at (513) 312-0530, or Eric. Thompson@dot.ohio.gov, if you have any questions.

Sincerely,





# Project Manager

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

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



Mike DeWine, Governor Jenifer French, Chair

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

December 13, 2021

Indiana & Ohio Railway Company Mr. Jared Rishel AVP Engineering Northern Region Genesee & Wyoming Inc. 4349 Easton Way Suite 110 Columbus, OH 43219

> Re: Hamilton County, Camargo Road, DOT#151-348G, hereinafter referred to as the "Project"

Dear Mr. Rishel:

The Public Utilities Commission of Ohio (PUCO) has identified and the Ohio Rail Development Commission (ORDC) surveyed, on August 26, 2021, the above mentioned grade crossing for warning device upgrades. The location has been approved for lights and gates.

The Project shall comply with Master Warning Device Agreement No. 5773, dated February 16, 1989, and entered into by the State of Ohio and Indiana & Ohio Railway Company (RAILROAD). Furthermore, the RAILROAD shall comply with all applicable state and federal laws governing grade crossing safety programs.

Preliminary engineering and construction costs shall be borne one hundred percent (100%) by ORDC. 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 receipt of 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 Camargo Road Hamilton County Indiana & Ohio Railway

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 email at <a href="mailto:jill.henry@puco.ohio.gov">jill.henry@puco.ohio.gov</a>.

Sincerely,

John Williams

Date \_\_\_\_\_1/5/2022

	Director of Transportation Public Utilities Commission of Ohio
Indiana & Ohio Railway Company	Mall Teathers
	Matthew Dietrich
Ву	Executive Director
	Ohio Rail Development Commission
Title	<u>-</u>

Page 2 of 2 Camargo Road Hamilton County Indiana & Ohio Railway

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 email at <a href="mailto:jill.henry@puco.ohio.gov">jill.henry@puco.ohio.gov</a>.

Sincerely,

John Williams

Director of Transportation

Public Utilities Commission of Ohio

India	na & Ohio Railway Company
	Matthew Dietrich
By	LEONARD WAGNER - President - 1/10/2022 12:18:29 HMe Director
100	Ohio Rail Development Commission
Title	
Data	Data

# Camargo Road (DOT #151348G), Village of Indian Hill, Hamilton County, IORY 8/26/2021

Crossing at a g	lance: 151348G			
ORDC Notes:				
		Please	Sign In	
Michael	Lynch Pm		ORI	SC
Name	Title		Or	ganization
	614 395 1824		Mi	charl Lind
_	Phone Number	Email	77(4	Signature
Steph	en Baker		PUCO	
Name	Title		Organization	1/16.
				1/4 / S
D/ 11	Phone Number	Email	- 20	Signature
Cars A	often Signel		1624	
Name	Title		Organization	Gen.
	Phone Number	Email		Signature
U. F. F. K.	ub Eremeer		Hamilton C	ounty Engineer
Name	Title		Organization	
	5/7 946 8421 :	Harmb	e bon laterace	11/27
	\$13 946 8421 j	Email	e herioti from	Signature
Shuma	517 946 8421 j.  Phone Number    Lruhs Struct 50.  Title	Min a	Indian HM	Shin We
Name	Title		Organization	1
	5/3-615-3335	SKrehne IM	ILLLORG	dutin
	Phone Number	Email		Signature
DAVID	YEAGER ASST. Su	perintenden	t Inome	141
Name	Title		Organization	
	513-623-2722	AVEGGAR	eihill ora	College !
1	Phone Number	Æmail	j	Signature
JON WO	et that city m	Waxer	villar of In	plion Hill
Name	Title	0	Organization	5 0 11 1
	513-561-6560	inestrihi	11.00	Sarua
	Phone Number	Email		Signature
Kathy D	orman City Ens	<i>V</i>	illage of India	n Will
Name 0	Title		Organization	All
	513-561-6500	Kdorm	and ihillorg	( ) / Nov
	Phone Number	Email	ð	Signature

Date: 8/26/2021

Location Data							
Street or Road Name	e:		Camargo Road				
County:	HAM	Township:		US DOT No.:	151348G		
City (in or near):	Indian Hill	Railroad Name:	IORY	RR Milepost:	17.75		
Safety Data (Obtain crash reports, if possible)							
		Initial Information	on (from database)		Revised		
Number & dates of vehicle crashes in previous 5 years:		1	n/a	NOW			
Number & dates of pedestrian/bicycle crashes in previous 5 years:		n/a		พงพร์			
Hazard Ranking:	987	Date Run:	07/06/2021				

Existing Traffic Control Devices						
Type of Warning Devices	Installed?		Qua	ntity/Comments		
HIGHWAY						
Advance Warning Signs (condition?)	✓Yes [	□ No	12-10'5			
'Stop' Signs	☐ Yes 【	No				
'Stop Ahead' Signs	☐ Yes ↓	No				
Pavement Markings (condition?)	☑ Yes [	□ No		1000 / 1 / 1/100		
Dynamic Envelope Markings (condition?)	□ Yes [	No				
Illumination	☐ Yes ↓	ZNo				
'No Turn' Signs (highway/passive)	☐ Yes [	√No				
Barriers/fencing (pedestrian/bicycle)	☐ Yes [	Z¹No				
LOOK Sign	☐ Yes 』	ZŃo				
Do Not Stop On Track Sign	☐ Yes	ΖNο				
RAILROAD						
Crossbucks	✓ Yes [	□ No				
Crossbucks – assembly with Stop	<sup>'</sup> □ Yes I	□ No				
Crossbucks – assembly with Yield	☐ Yes I	□ No				
Mast-Mounted Flashing Lights	✓ Yes I	□No				
Cantilever Flashing Lights	□Yes	☑ No	Number:	Length:		
Side Lights	<b>∠</b> Yes	□ No				
LED or Incandescent Lights? Size?	✓ Yes	□No				
Automatic Gates	☐ Yes	No.	Number:	Length:		
Bells	☐ Yes	Ø No	Number:			
Sidewalk/Pedestrian Gate Arms	☐ Yes	No	Number:	Length:		
'No Turn' Signs (railroad/active)	☐ Yes	Z 1/16		The state of the s		
Is crossing flagged by train crew?	☐ Yes	No	5	7		
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	6	4					
<   per day? Trains per week		•					
Day thru trains	A2						
Night thru trains	2						
Switching							
Total number of tracks							
Number of main tracks 1							
Number of other tracks							
Maximum train speed 25 mph							
Typical train speed 10 - 25 mph							
Amtrak	Amtrak N D						
Are there other track(s) crossing this same roadway within 100ft of this crossing?							
If yes, Crossing DOT# (if different)							
If yes, distance (take measurement between track centerlines at closest point along roadway)							
If multiple tracks, can two trains occupy crossing at the same time?   Yes   No							
Can one train block the motorists' view of another train at the crossing?   Yes (explain below)							
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 Indian Hill							
Roadway Characteristics	Initial Information	(from database)	Revised				
Average Daily Traffic	8632 (	2013) 🗸					
Highway Paved	✓ Yes □ No		☐ Yes ☐ No				
Roadway Surface: 🗹 Blacktop 🗆 Gravel 🗆	Concrete Other						
Roadway width (paved/travelled way):	28 ft						
Number of Highway Lanes	2	2					
Urban or Rural	Urb	an					
Vehicle Speed: 35 MPH							
School Bus Operation: Yes 🗹 No	Amount	INDIAN HII	I School BOARD TRANSFORTATE				
Location of nearby schools:NDIAN	HILL SCHO	ols					
Hazardous Materials Trucks: ☑ Yes ☐ No Amount (from FRA) 4% LHA verified/changed?							
Shoulders: 🗹 Yes 🗆 No							
Is the Shoulder Surfaced? Z Yes							
Is there existing guardrail along the roadway in crossing vicinity?   Yes   No							
Crossing Angle □ 0-29° □ 30-59° ☑ 60-90° Measured in Quadrant?							
Quadrant Curb & Gutter: Quadrant Curb & Gutter:							
☐ Functional (Curb height = 4" or more)		☐ Functional (Curb h	eight = 4" or more)				
□ Non-functional (Curb height = less than 4"	)	□ Non-functional (Cu	urb height = less than 4")				
☑/None							
Is there a nearby intersection that could cause queuing over the crossing?							
If yes, distance							
Is this intersection signalized?   Yes   No							
Are there signals currently interconnected with the existing crossing warning devices?							
Is there a 'Do Not Stop on Track' sign?   Yes   No							
Is a roadway improvement project (e.g. widening, turn lanes, nearby new or upgraded traffic signal, sidewalk) planned at or near this							
location in the foreseeable future?   Yes  No  If yes:							
Improvement type	Lead Agency	Ti	meline/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)?					
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:					
<i>y</i> 5					
Utility Information /					
Is commercial power available?   Yes   No					
Utility Provider (Company Name) DUKE					
Nearest Available Power Source @ He crossing					
What other utilities are present?					
Comments:					
Surface					
Surface review form completed? The Surface 18 IN GOOD Shape					
CILIB : (DEFED TO TABLES)					
Sight Preview (REFER TO TABLES)					
If non-gated crossing, is clearing sight distance adequate in all quadrants? (See Table I)   Yes					
Is stopping sight distance adequate? (See Table 2)					
When considering recommendations for bicycle treatments:					
Bicycle sight distance adequate?   Yes   No If no, which quadrant?					
When considering recommendations for pedestrian treatments:					
Pedestrian sight distance adequate?   Yes   No If no, which quadrant?					

Potential Red Flags / Project Challenges
Traffic Signal Preemption (include traffic signal intersection name and LHA with jurisdiction over traffic signal, if known):
ND
Crossing Consolidation or Closure:
$\mathcal{M}_{\mathcal{O}}$
Real Estate or ROW:
$\mathcal{M}_{\mathcal{O}}$
Culvert / Drainage / Ballast Conditions:
$\mathcal{O}$
Roadway and/or Sidewalks:
$\mathcal{M}_{\mathcal{I}}$
Circuitry (e.g. reaches out to other crossings, specific needs, etc.):
Ng
Environmental:
$M_{\mathcal{G}}$
Utilities:
105
Other:

Potential Closure	
Is it the consensus of the Diagnostic Review Team that this is a poter	ntial closure project?
Explain reasons: EM BROWN ROUTE	No
Diagnostic Team Recommendations	
□ No improvements needed	Quadrants Needed
✓ Install/upgrade active devices	
☐ Automatic Flashing Lights (AFLS)	
☐ AFLS /Cants	
AFLS / Gates	
☐ AFLS / Gates / Cants	
Bells / number	TWO
☐ Upgrade circuitry / type	1 020 0
☑ Sidelights	
☐ LED Upgrades	
☐ Guardrail Needed	
☐ Install/Replace curb	
🗖 Bungalow placement & offset from rail & highway	Same quad
Other (define)  Comments: Remove od Communication	ins,
☐ Install/upgrade traffic signal preemption Other (define):	
Diagnostic Team Recommendations (cont.)  PEDESTRIAN/BICYCLE Treatments (additional, not include)	ed 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 represent acknowledgement):	ted at the diagnostic must have at least one signature/initial

Field Sketch (optional) Include utilities as marked by OUPS and LHA; in	ncluda ROW boundaries as indicat	ed by railroad and LH	A
micrude dunities as marked by CO13 and E112, ii	include NOVV Boundaries as inclear	ed by rain odd and are	

# **Clearing Sight Distances**

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

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

# Notes:

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

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

Clearing Sight Distance is to be measured in each vehicle travel direction at <u>non-gated crossings</u> as viewed from a point 25 feet from centerline of nearest track in the center of whichever travel lane is nearest the direction along track being measured.

# **Stopping Sight Distances**

Highway Vehicle Speed	Distance (dH) Along Roadway from Crossing (ft)
0	n/a
5	50
10	70
15	105
20	135
25	180
30	225
335	280
40	340
45	410
50	490
55	570
60	660
65	760
70	865

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

## Notes:

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

Distances indicated are for 65-ft double bottom semi-tractor trailers on dry level pavements.

Stopping Sight Distance is to be measured on each roadway approach to crossing from stop bar.

# **Bicycle & Pedestrian Clearing Sight Distances**

	Clearing Sight Distance from Stop Position*										
Crossing of one track					Crossing 2 Tracks		Crossing 3 Tracks				
Train Speed	Car	Single-unit Truck	Bus	WB-50 Semitruck	65-foot Double Truck	Pedestrian <sup>1</sup>	Bicyclist <sup>2</sup>	Pedestrian <sup>1</sup>	Bicyclist <sup>2</sup>	Pedestrian <sup>1</sup>	Bicyclist <sup>2</sup>
10	105	185	200	225	240	120	100	180	120	240	140
20	205	365	400	450	485	240	200	360	240	480	270
25	255	455	500	560	605	300	250	450	290	590	340
30	310	550	600	675	725	360	290	530	350	710	410
40	410	730	795	895	965	480	390	710	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

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

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

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

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

3/30/2023 11:27:23 AM

in

Case No(s). 23-0288-RR-FED

Summary: Application In the Matter of a Request for the Installation of Active Warning Devices at the Indiana & Ohio Railway Company Grade Crossing, DOT# 151-348G at Camargo Road in Hamilton County, Ohio. electronically filed by Mr. Thomas Persinger on behalf of PUCO/Rail Division.