

FILE

22

WHEELING & LAKE ERIE RAILWAY COMPANY

Dan Reinsel
Signal & Communication Supervisor

100 East First Street
Brewster, OH 44613

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Fax: 330-767-3213

26 March 2010

Mr. George Martin
PUCO Railroad Section
180 East Broad Street
Columbus, OH 43215-3793

09-1955-RR-STP

RE: Estimate for Beat Road Xing DOT 002-067N

Dear Mr. Martin,

Accompanying this letter are engineering drawings, a material list, and estimates for the identified crossing project. I will await approval from the PUCO before ordering the materials.

Estimated cost of crossing system:

Material Package	\$95,000.00
Engineering	\$3,982.90
Project Management	\$9,626.27
Final Construction/Installation	\$17,970.48
Site Preparation Work	\$16,000.00
WLE Labor (test/cutover/coordination)	\$3,000.00
Stone Fill	\$2,500.00
Stone Transport	\$900.00
Gate Foundations	\$918.00
Est. Total	\$149,897.65

Respectfully,

Dan Reinsel
Dan Reinsel

c: PUCO Docketing
PUCO Jill Henry

PUCO

2010 MAR 30 PM 2:50

RECEIVED-DOCKETING DIV

This is to certify that the images appearing are an accurate and complete reproduction of a case file document delivered in the regular course of business.
Technician mmm Date Processed 03/30/10

Wheeling & Lake Erie Railway Co.
Beat Road - Project Estimate
CTC Project No. CT10009

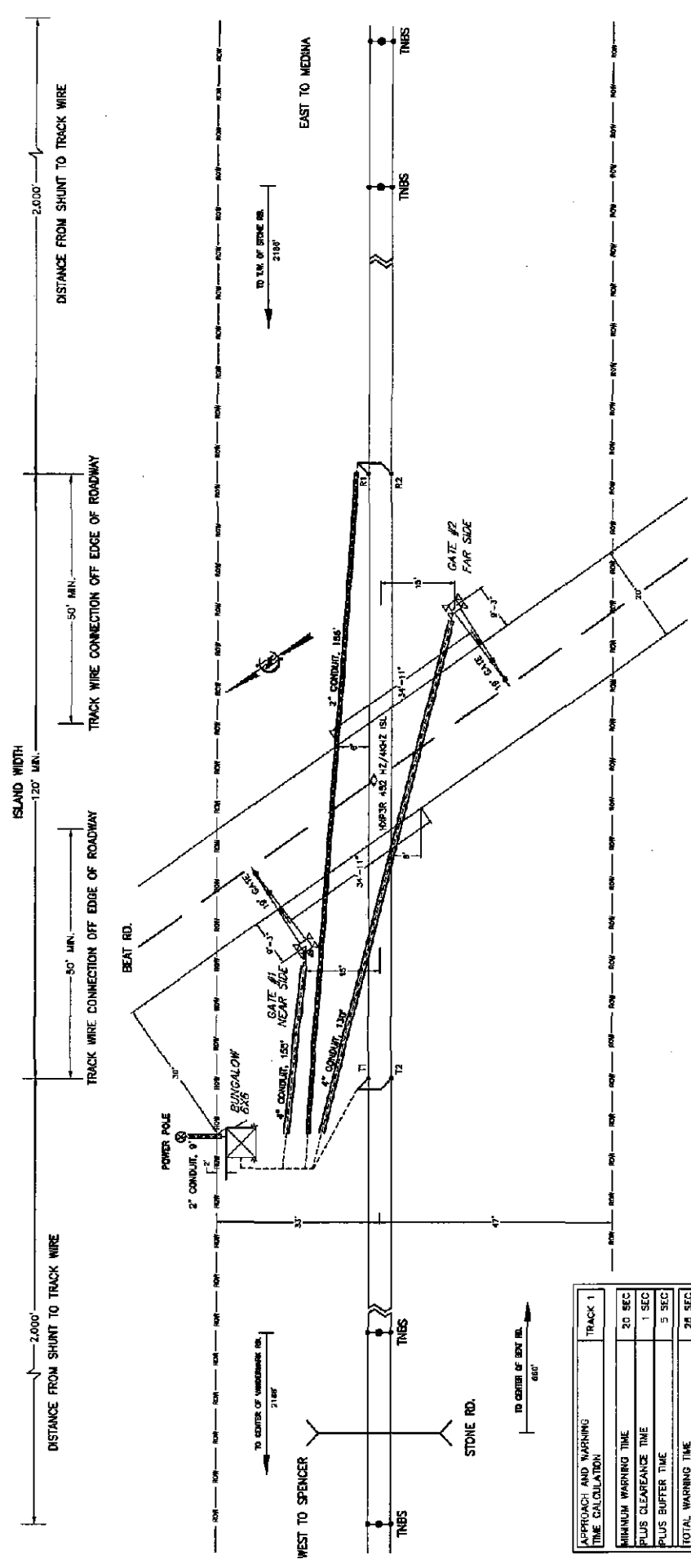
ENGINEERING					
Line No.	Description	Qty	UOM	Cost	Total Cost
1	CAD OPERATOR	24	HR	28.38	\$681.12
2	SIGNAL CHECKER, LEVEL 1	16	HR	28.38	\$454.08
3	SIGNAL CHECKER, LEVEL 2/FIELD ENGINEER	4	HR	36.06	\$144.24
	SUBTOTAL				\$1,279.44
	G&A BURDEN FOR LABOR				\$2,341.38
	FIXED FEE				\$362.08
	ENGINEERING TOTAL				\$3,982.90

PROJECT MANAGEMENT					
Line No.	Description	Qty	UOM	Cost	Total Cost
1	SENIOR SIGNAL ENGINEER	24	HR	72.11	\$1,730.64
2	PROJECT MANAGER	4	HR	60.10	\$240.40
3	CONSTRUCTION MANAGER	24	HR	36.06	\$865.44
4	ACCOUNTING, LEVEL 1	4	HR	38.47	\$153.88
5	ADMINISTRATIVE	4	HR	25.48	\$101.92
	SUBTOTAL				\$3,082.28
	G&A BURDEN FOR LABOR				\$5,658.87
	FIXED FEE				\$875.12
	PROJECT MANAGEMENT TOTAL				\$9,626.27

CONSTRUCTION					
Line No.	Description	Qty	UOM	Cost	Total Cost
LABOR					
1	SIGNAL GANG, FOREMAN	60	HR	28.50	\$1,710.00
2	SIGNAL GANG, SIGNALMAN	60	HR	19.50	\$1,170.00
3	SIGNAL GANG, SIGNALMAN HELPER	60	HR	19.00	\$1,140.00
4	SIGNAL SUPERVISOR	8	HR	36.06	\$288.48
Expenses					
5	EMPLOYEE MEALS (PER DIEM)	26	EA	35.00	\$910.00
6	EMPLOYEE TRAVEL & LODGING	24	EA	55.00	\$1,320.00
7	AIRFARE	1	EA	200.00	\$200.00
Equipment					
7	TRUCK, PU, 1 TON CREW CAB	60	HR	6.50	\$390.00
8	TRUCK, BOOM, ART, TELESCOPING	4	HR	55.95	\$223.80
9	BACKHOE, 2WD, 95 HP	4	DY	250.00	\$1,000.00
10	EQUIPMENT DELIVERY/PICKUP	2	LS	50.00	\$100.00
	SUBTOTAL-LABOR				\$4,308.48
	SUBTOTAL-EXPENSES/EQUIPMENT				\$4,143.80
	G&A BURDEN FOR LABOR				\$7,884.52
	FIXED FEE				\$1,633.68
	CONSTRUCTION TOTAL				\$17,970.48

MATERIALS					
Line No.	Description	Qty	UOM	Cost	Total Cost
1	MATERIAL PACKAGE	1	LOT	95,000.00	\$95,000.00
	MATERIAL TOTAL				\$95,000.00

TOTAL PROJECT COST (CTC)					\$126,579.64
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APPROACH AND WARNING TIME CALCULATION	TRACK 1
MINIMUM WARNING TIME	20 SEC
PLUS CLEARANCE TIME	1 SEC
PLUS BUFFER TIME	5 SEC
TOTAL WARNING TIME	26 SEC
TOTAL WARNING TIME	26 SEC
PLUS EQUIPMENT RESPONSE	5 SEC
PLUS ADVANCE PREEMPT	NA SEC
TOTAL APPROACH TIME	31 SEC
MAXIMUM TRAIN SPEED	40 MPH
TIMES RATION OF FT/SEC TO MPH	1.4667
TOTAL (MINIMUM) APPROACH DISTANCE	1,819 FT

APPROACH LENGTH INSTALLED TO 2,000 FT.
THIS MEETS/EXCEEDS REQUIRED MINIMUM.
PREDICTOR SET FOR 26 SECOND WARNING TIME.

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

NOTE 1: SITE WILL OVERLAP TO THE WEST WITH VANDERMARK CROSSING 210+Z
NOTE 2: SITE WILL OVERLAP TO THE EAST WITH STONE CROSSING 326+Z
NOTE 3: DISTANCE FROM CENTER OF BEAT RD WEST 2,771 FEET TO VANDERMARK RD.

Wheeling & Lake Erie Railway

LOCATION: BEAT ROAD/TOWNSHIP RD 106 LITCHFIELD, OHIO

PROJECT NO: 11/04/2009

DATE: 11/04/2009

DESIGNER: W&LE

CLIENT: W&LE

SCALE: N.T.S.

PROJECT: 002 087N

OF 18

REVISION BLOCK

CONSTRUCTION NOTES

- 1.) REMOVE EXISTING DHWS FOR VANDERMARK RD. AND INSTALL NEW 210 HZ SHUNT 75' FROM CENTER OF STONE RD.
- 2.) RECALIBRATE AT VANDERMARK RD. FOR NEW TNBS
- 3.) NEAREST ADDRESSES TO THE NORTH OF CROSSING IS 4279 BEAT ROAD AND TO THE SOUTH OF CROSSING IS 4296 BEAT RD.
- 4.) NEAREST ELECTRIC POLE IS APPROX. 600±; PROVIDER OF SERVICE IS LORAIN MEDINA RURAL ELECTRIC, 2_15_18

W&LE

**Wheeling & Lake Erie
Railway**

LOCATION

BEAT ROAD/TOWNSHIP RD 106
LITCHFIELD, OHIO

DATE

11/24/2008

SITE LAYOUT NOTES

PROJECT

RAILROAD

PROJECT NO.

CT10009

DESIGNER

SCALE

AS SHOWN

DATE

11/15

PROJECT

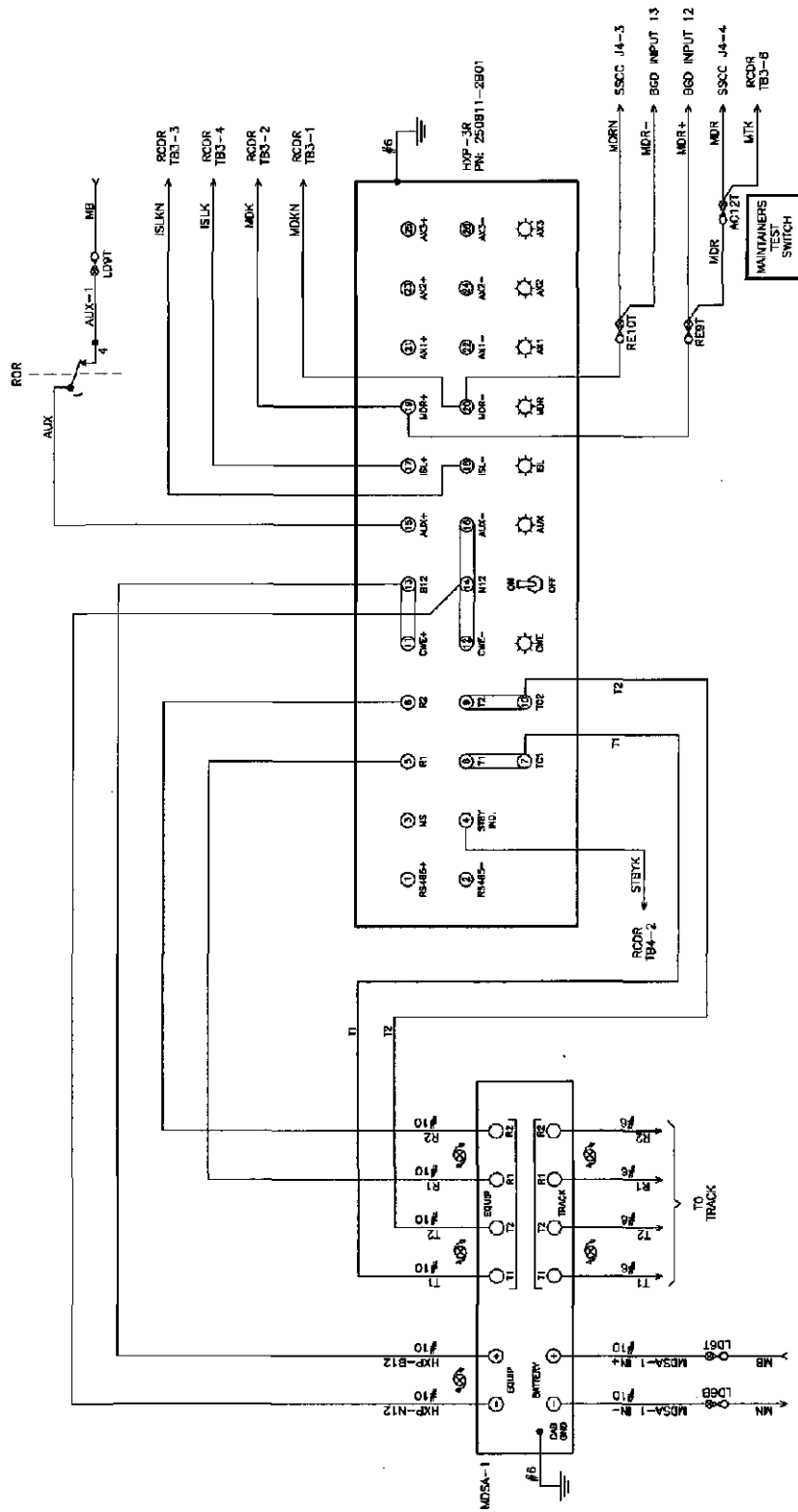
PROJECT NO.

001 RD 002 007N

DATE

01A OF 18

REVISION
BLOCK





W&LE

Wheeling & Lake Erie

Railway

LOCATION

BEAT ROAD/TOWNSHIP RD 106

LITCHFIELD, OHIO

DATE

11/24/2009

BY

AKRON

PROJECT

AT 132.5

SCALE

1"=100'

DESIGNER

10/10/02 067N

REVISION

02 OF 10

W&LE

CROSSING CONTROL CIRCUITS

11/24/2009

AKRON

AT 132.5

1"=100'

10/10/02 067N

02 OF 10

PROGRAM INFORMATION

* - FIELD ADJUSTMENT TO BE MADE ACCORDING TO THE HRP-3 INSTRUCTION MANUAL.

HRP-3R ADJUSTMENTS

NO.	ADJUSTMENT NAME	TRACK 1	TRACK 2
1	APP. LENGTH	2000"	
2	WARNING TIME	26 SEC	
3	LIA	*	
4	IC	*	
5	MD RESTART	0	

OPTION ADJUSTMENTS

NO.	ABBREVIATION	TRACK 1	TRACK 2
1	TK-ENA	UP	
2	TK-FO	452 HZ	
3	CW/MD	C	
4	UN-B	b (BD)	
5	NRS-C	*	
6	CWENT	DL (80 SEC.)	
7	LOS	DL (16 SEC.)	
8	U-LOS	DL (5 SEC.)	
9	BC	133 *	
10	P-COMP	*	
11	AX1	N/A	
12	AX2	N/A	
13	AX3	N/A	
17	MOR-AX	5m"	
	OF-TK 1 OR 2	DL (0)	
	CI-LOS	DL (0)	
	PI-DET	DL (15)	
	PJ-RX	DL (10)	
18	MD-TMR	DL (0)	
19	MIN-WT	DL (0)	
20	FS-DET	5m"	
	FS-RX	DL (0)	
	FS-TM	DL (10)	
21	POS-ST	5m"	
	POS-RX	DL (0)	
	POS-TM	DL (0)	
22	AR-TMR	5m"	
	AR-RX	DL (0)	
	AR-TM	DL (10)	
47	ATO-RX	UP	
48	PT-ENA	5m"	

AX ADJUSTMENTS

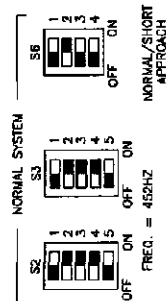
NO.	ABBREVIATION	AX 1	AX 2	AX 3
1	TK-ASH			
2	OF-TX1			
3	OF-TX2			
4	WT			
5	MD-RST			
6	CW/MD			
7	CI-LOS			
8	PJ-DET			
9	PJ-RX			
10	POS-ST			

SWITCH INFORMATION

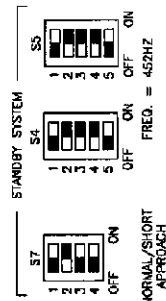
SWITCH	TRACK 1	TRACK 2
MASTER/SLAVE	MASTER	
RSL FAULT JUMPER	0	
TLM #1 JUMPER	PINS 1-2	
TLM #2 JUMPER	PINS 1-2	
TLM #3 JUMPER	PINS 2-3	
MINUTE TIMEOUT	5 MIN	
CW/MD	CW	
STANDBY/AUTO/NORMAL	AUTO	

NOTE: DL= DEFAULT LEVEL
N/A= NON APPLICABLE

NORMAL SYSTEM



STANDBY SYSTEM



NOTES FOR S6 AND S7:

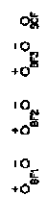
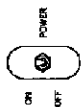
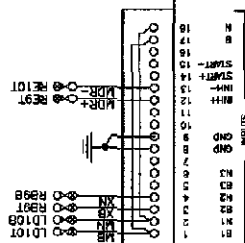
- 1) ACTUATOR 1 SELECTS NORMAL APPROACH WHEN SET TO ON POSITION.
- 2) WITH ACTUATOR 1 IN OFF POSITION ACTUATOR 2 SELECTS SHORT APPROACH WHEN OFF AND SELECTS VERY SHORT WHEN ON.
- 3) ACTUATOR 3 AND 4 RESERVED FOR FUTURE USE.

W&LE

Wheeling & Lake Erie Railway

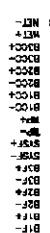
LOCATION: BEAT ROAD/TOWNSHIP RD 106
LITCHFIELD, OHIO

INSTALL DATE: 11/04/2009	DATE	HRP PROGRAM INFORMATION
DESIGNER: ARRON	DATE: 07/00/09	
DRAWN: A132.5	SCALE: N.T.S.	
REVISION: 002	DATE: 06/27/13	



BATTERY SIGNAL DETECTOR
NORTH AMERICAN SIGNAL
JACKSONVILLE, FLORIDA

OUTPUTS



NMS CONTROLLER SOFTWARE CONFIGURATION MANAGEMENT TABLE			
APPLICATION	FILE NAME	DATE	DESCRIPTION
GFD EXEC	XX/XX/XXXX	XX/XX/XXXX	GFD MODULE EXECUTIVE

SW1 CURRENT 1/10 MA

POSITION	1	2	3	4	5	6	7	8
CLOSED								
OPEN								

(2 MA)

SW1 CURRENT 1/10 MA

POSITION	1	2	3	4	5	6	7	8
CLOSED								
OPEN								

(12 HOURS)

SW1 CURRENT 1/10 MA

POSITION	1	2	3	4	5	6	7	8
CLOSED								
OPEN								

(12 HOURS)

SW1 CURRENT 1/10 MA

POSITION	1	2	3	4	5	6	7	8
CLOSED								
OPEN								

(12 HOURS)

SW1 CURRENT 1/10 MA

POSITION	1	2	3	4	5	6	7	8
CLOSED								
OPEN								

(12 HOURS)

SW1 CURRENT 1/10 MA

POSITION	1	2	3	4	5	6	7	8
CLOSED								
OPEN								

(12 HOURS)

SW1 CURRENT 1/10 MA

POSITION	1	2	3	4	5	6	7	8
CLOSED								
OPEN								

(12 HOURS)

SW1 CURRENT 1/10 MA

POSITION	1	2	3	4	5	6	7	8
CLOSED								
OPEN								

(12 HOURS)

SW1 CURRENT 1/10 MA

POSITION	1	2	3	4	5	6	7	8
CLOSED								
OPEN								

(12 HOURS)

SW1 CURRENT 1/10 MA

POSITION	1	2	3	4	5	6	7	8
CLOSED								
OPEN								

(12 HOURS)

SW1 CURRENT 1/10 MA

POSITION	1	2	3	4	5	6	7	8
CLOSED								
OPEN								

(12 HOURS)

SW1 CURRENT 1/10 MA

POSITION	1	2	3	4	5	6	7	8
CLOSED								
OPEN								

(12 HOURS)

SW1 CURRENT 1/10 MA

POSITION	1	2	3	4	5	6	7	8
CLOSED								
OPEN								

(12 HOURS)

SW1 CURRENT 1/10 MA

POSITION	1	2	3	4	5	6	7	8
CLOSED								
OPEN								

(12 HOURS)

SW1 CURRENT 1/10 MA

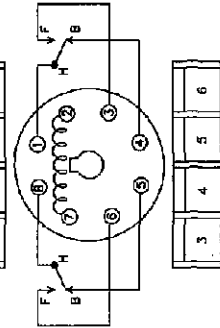
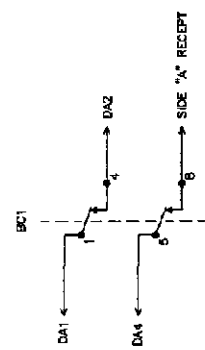
POSITION	1	2	3	4	5	6	7	8
CLOSED								
OPEN								

(12 HOURS)

SW1 CURRENT 1/10 MA

POSITION	1	2	3	4	5	6	7	8
CLOSED								
OPEN								

(12 HOURS)

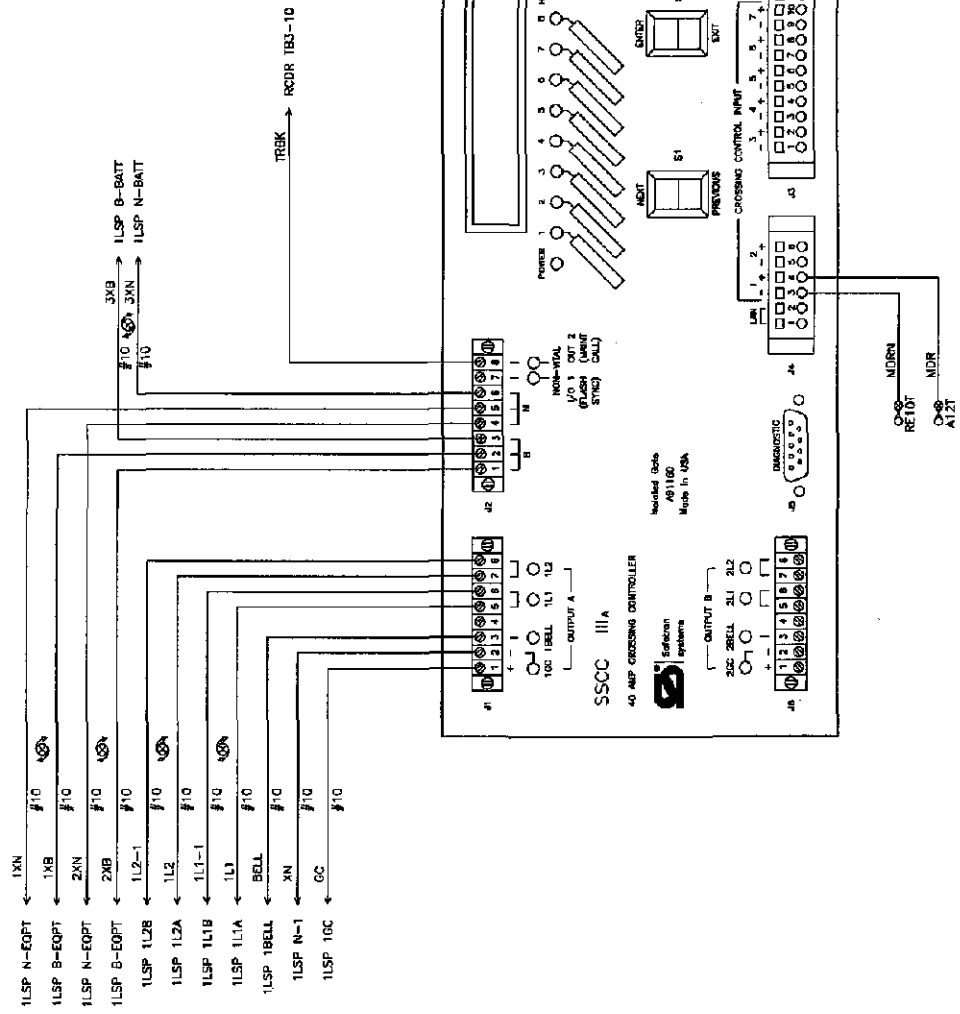


Whodunnit & Lato Eto
Barney

W&LE

684T ROAD/TOWNSHIP RD 106
LITCHFIELD, OHIO

DATE	11/04/2008	TIME	10:00
LOCATION	684T ROAD/TOWNSHIP RD 106	STATE	OHIO
PROJECT	W&LE	PROJECT	W&LE
DESIGNER	W&LE	DESIGNER	W&LE
CHECKER	W&LE	CHECKER	W&LE
DATE	11/04/2008	TIME	10:00
LOCATION	684T ROAD/TOWNSHIP RD 106	STATE	OHIO
PROJECT	W&LE	PROJECT	W&LE
DESIGNER	W&LE	DESIGNER	W&LE
CHECKER	W&LE	CHECKER	W&LE



INCORRECT POLARITY WILL RESULT IN SEVERE DAMAGE TO THE CONTROLLER UNIT.

WARNING
IF B OR N ARE FULLY OR PARTIALLY REMOVED, SIGNALS AND/OR GATES MAY NOT OPERATE AS INTENDED. TAKE ALTERNATE MEANS TO WARN VEHICULAR TRAFFIC AND EMPLOYEES.

W&LE

Wheeling & Lake Erie Railway

LOCATION: BEAT ROAD/TOWNSHIP RD 106 LITCHFIELD, OHIO

DATE: 11/14/2008

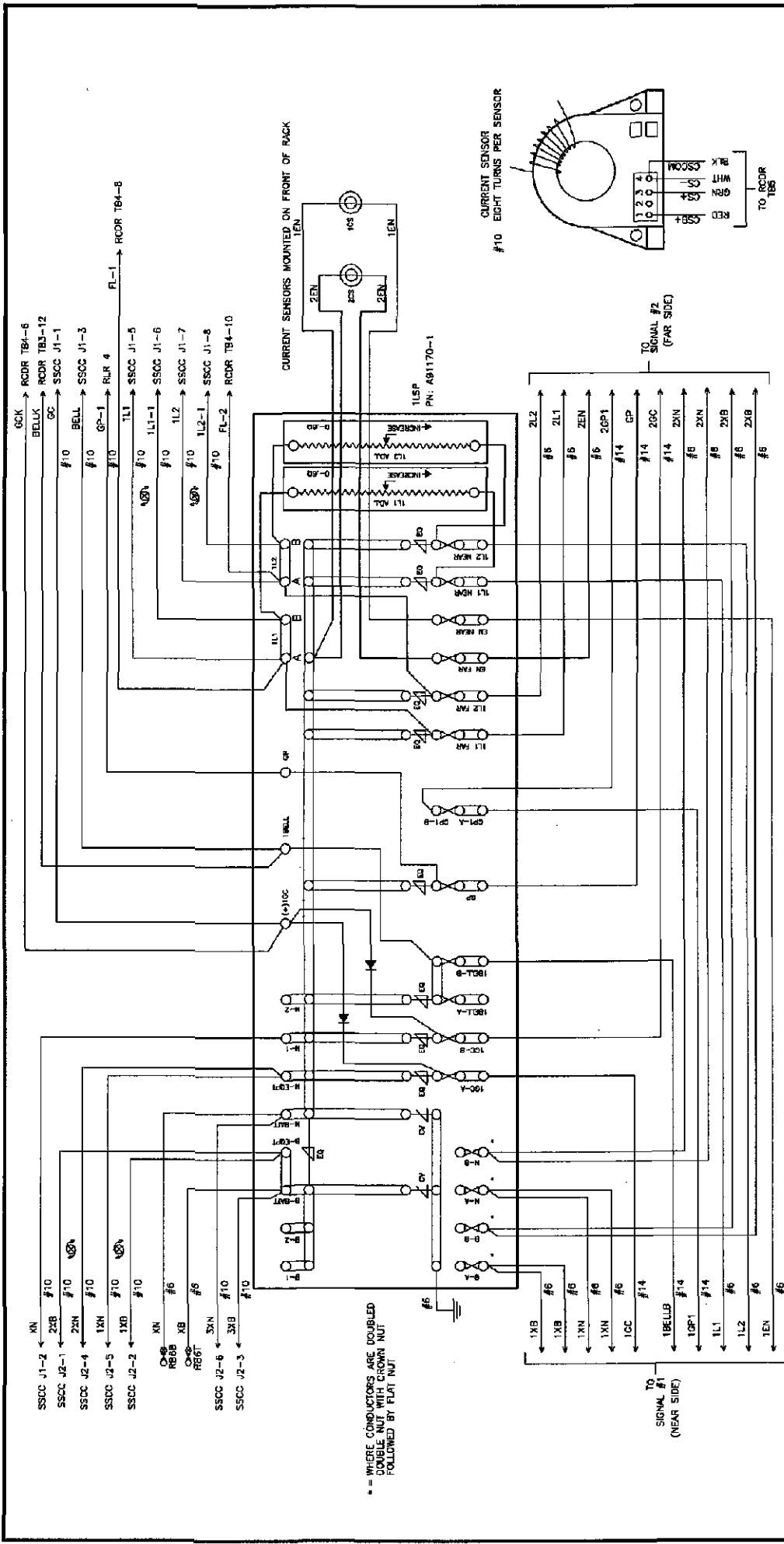
DESIGNER: JLF

CHECKED: JLF

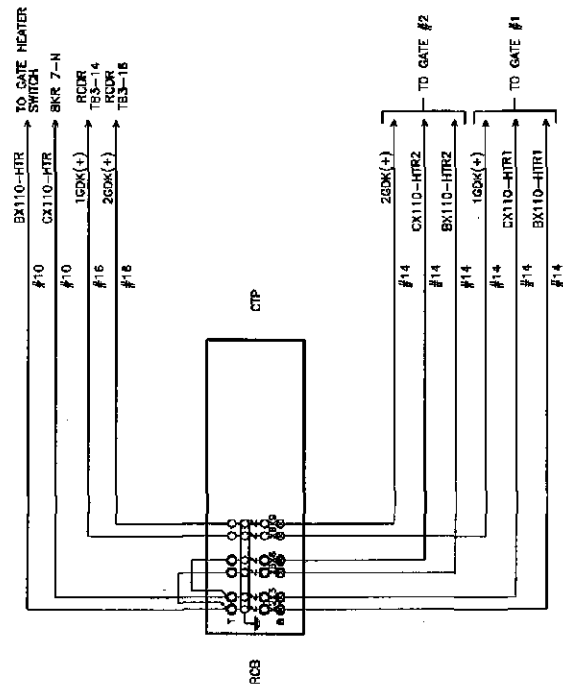
SCALE: N.T.S.

PROJECT: 100-002-067H

US # 18



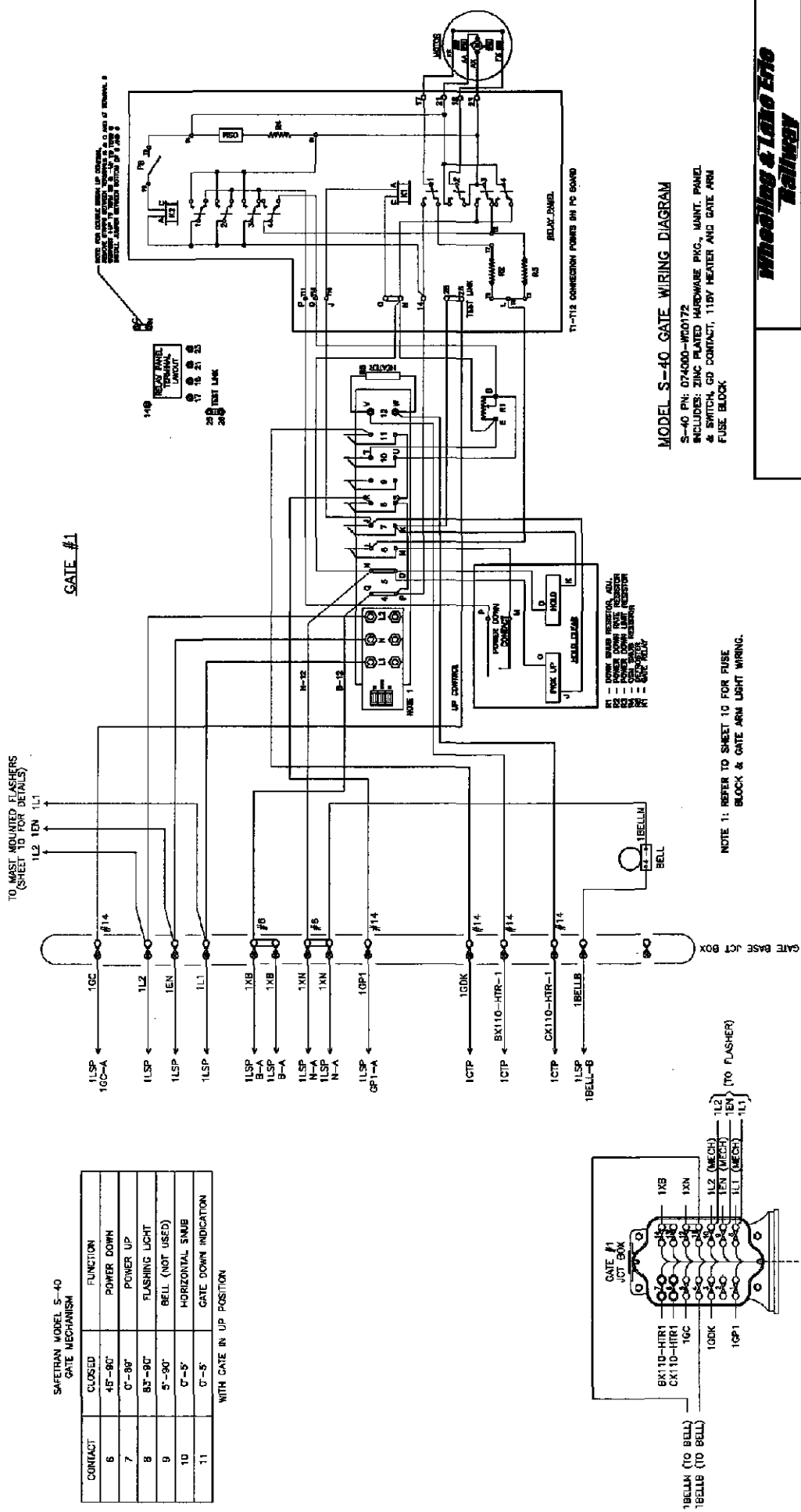
W&LE Wheeling & Lake Erie Railway		LOCATION BEAT ROAD/TOWNSHIP RD 108 LITCHFIELD, OHIO	
		DRAWN BY 11/04/2009 DESIGNED BY JACON CHECKED BY ATJLS DATE 07 of 18	



		Wheeling & Lake Erie Railway	
		LOCATION: BEAT ROAD/TOWNSHIP RD 106 LITCHFIELD, OHIO	
ORDER NO. 11704/2000	DATE: 11/04/2000	CTP: 106	CTP NO.: CT10000
PROJECT: 106	DRAWN: 106	CHECKED: 106	DATE: 11/04/2000
REVISION: 106	DATE: 11/04/2000	DRAWN: 106	DATE: 11/04/2000
SHEET: 002 OF 067N		SHEET: 002 OF 18	

CONTACT	CLOSED	FUNCTION
6	45°-90°	POWER DOWN
7	0°-80°	POWER UP
8	85°-90°	FLASHING LIGHT
9	5°-90°	BELL (NOT USED)
10	0°-5°	HORIZONTAL SNAIB
11	0°-5°	GATE DOWN INDICATION

WITH GATE IN UP POSITION



MODEL S-40 GATE WIRING DIAGRAM

S-40 PN: 074000-WD0172
INCLUDES: ZINC PLATED HARDWARE PKG., MANT. PANEL
& SWITCH, GD CONTACT, 115V HEATER AND GATE ARM
FUSE BLOCK

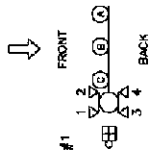
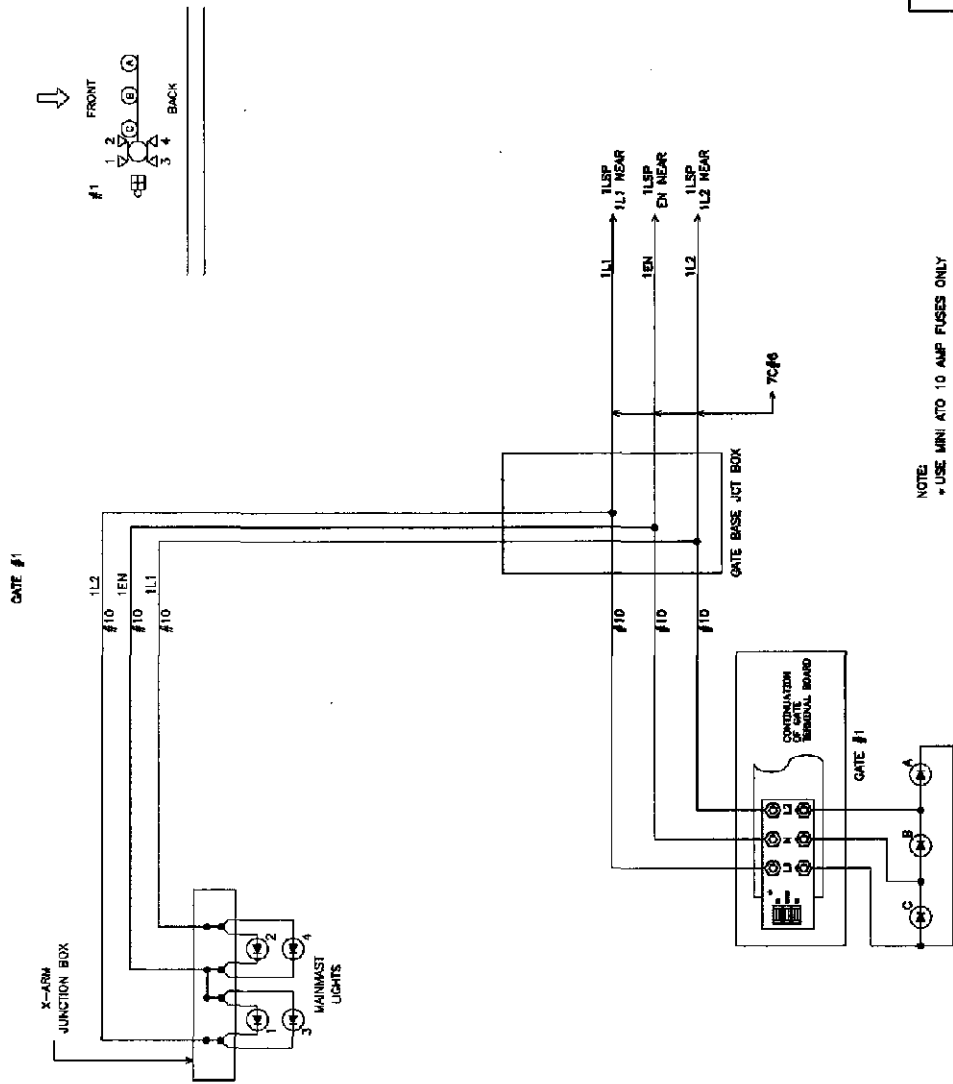
NOTE 1: REFER TO SHEET 10 FOR FUSE
BLOCK & GATE ARM LIGHT WIRING.

Wheeling & Lake Erie Railway

BEAT ROAD/TOWNSHIP RD 106
LITCHFIELD, OHIO

ORIGINAL DATE 11/04/2008	FILE	GATE #1	MECHANISM (NEAR SIDE)
RESEARCHER	SUB	AKRON	QTD NO.
DOCTORAL	ROOM	A132.5	WORKS
POSTER	EXP NO.	002	DISZN
			SHEET
			NO. OF
			N.T.S.
			QTD NO.

RESEARCH



Wheeling & Lake Erie
Railway

W&LE

BEAT ROAD/TOWNSHIP RD 105
LITCHFIELD, OHIO

ORIGINAL DATE	11/04/2009	TIME	GATE #1 LIGHTS (NEAR SIDE)
DESIGNER	SUP	AKRON	ERIC R.
DATE	11/04/2009	TIME	11:00 AM
REVISION	1	BY	AKRON
REVISION	2	BY	AKRON
REVISION	3	BY	AKRON
REVISION	4	BY	AKRON
REVISION	5	BY	AKRON
REVISION	6	BY	AKRON
REVISION	7	BY	AKRON
REVISION	8	BY	AKRON
REVISION	9	BY	AKRON
REVISION	10	BY	AKRON
REVISION	11	BY	AKRON
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REVISION	97	BY	AKRON
REVISION	98	BY	AKRON
REVISION	99	BY	AKRON
REVISION	100	BY	AKRON

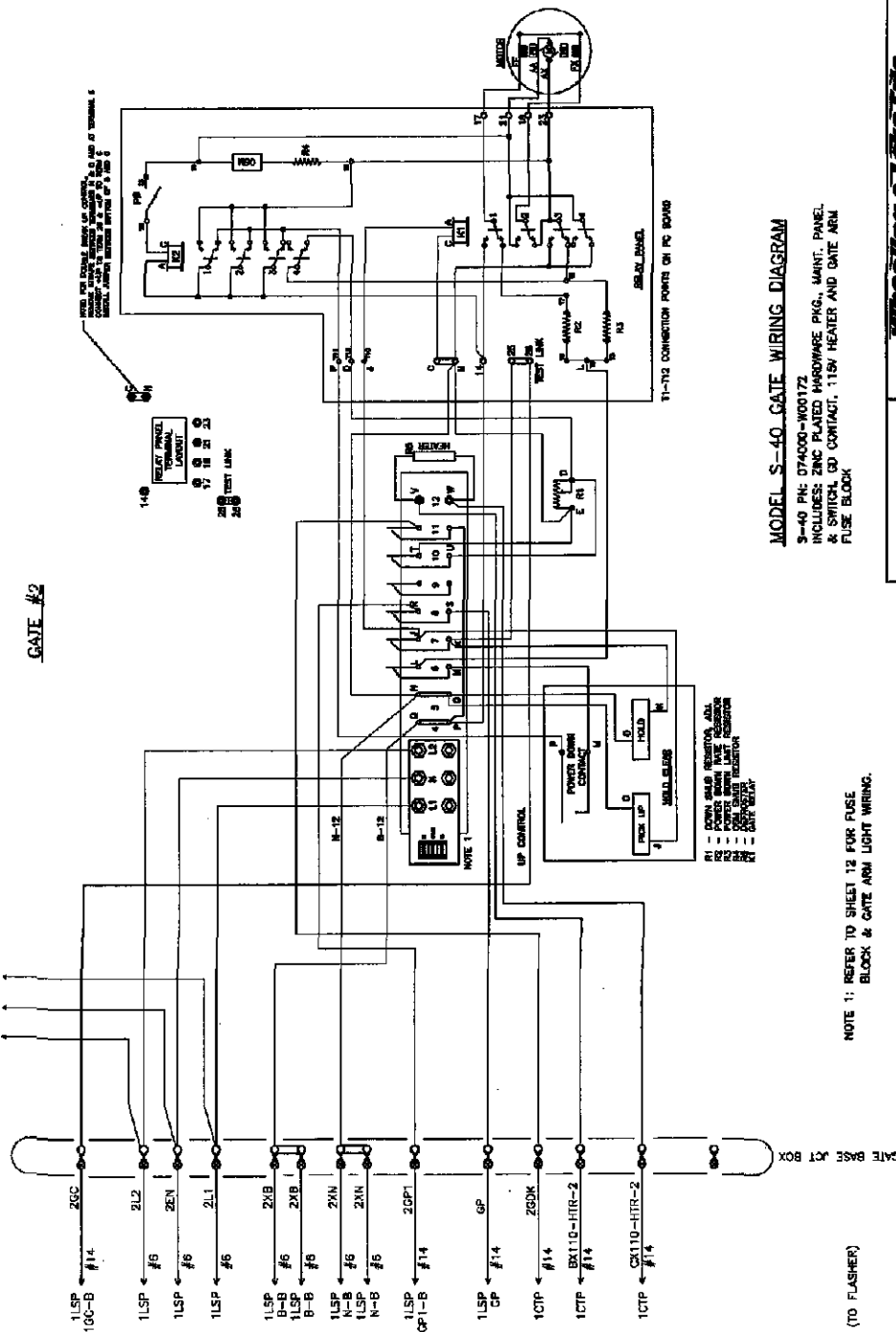
SAFETIAN MODEL S-40
GATE MECHANISM

CONTACT	CLOSED	FUNCTION
8	45°-90°	POWER DOWN
7	0°-89°	POWER UP
8	83°-90°	FLASHING LIGHT
9	5°-90°	BELL (NOT USED)
10	0°-5°	HORIZONTAL SNAUB
11	0°-5°	GATE DOWN INDICATION

WITH GATE IN UP POSITION

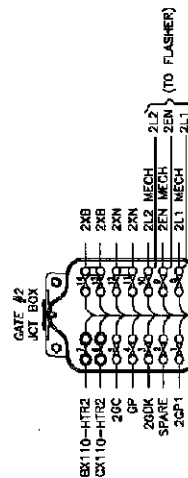
TO MAST MOUNTED FLASHERS
(SHEET 12 FOR DETAILS)
2L2 2EN 2LT

GATE #2



- R1 - POWER MAIN RELAY
- R2 - POWER MAIN RELAY
- R3 - POWER MAIN RELAY
- R4 - POWER MAIN RELAY
- R5 - POWER MAIN RELAY
- R6 - POWER MAIN RELAY
- R7 - POWER MAIN RELAY
- R8 - POWER MAIN RELAY
- R9 - POWER MAIN RELAY
- R10 - POWER MAIN RELAY
- R11 - POWER MAIN RELAY
- R12 - POWER MAIN RELAY
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- R97 - POWER MAIN RELAY
- R98 - POWER MAIN RELAY
- R99 - POWER MAIN RELAY
- R100 - POWER MAIN RELAY

NOTE 1: REFER TO SHEET 12 FOR FUSE
BLOCK & GATE ARM LIGHT WIRING.



MODEL S-40 GATE WIRING DIAGRAM
S-40 PK: 074000-W00172
INCLUDES: ZINC PLATED HARDWARE PKG., MAINT. PANEL
& SWITCH, G3 CONTACT, 115V HEATER AND GATE ARM
FUSE BLOCK

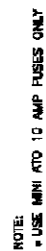
Wheeling & Lake Erie
Railway

LOCATION: BEAT ROAD/TOWNSHIP RD 106
LITCHFIELD, OHIO

W&LE

DATE: 11/04/2003	TIME: 10:00 AM	DATE: 11/04/2003	TIME: 10:00 AM
DESIGNED BY: J. L. HARRIS	CHECKED BY: J. L. HARRIS	DATE: 11/04/2003	TIME: 10:00 AM
PROJECT: 115V HEATER AND GATE ARM	PROJECT: 115V HEATER AND GATE ARM	DATE: 11/04/2003	TIME: 10:00 AM
PROJECT: 115V HEATER AND GATE ARM	PROJECT: 115V HEATER AND GATE ARM	DATE: 11/04/2003	TIME: 10:00 AM

11 OF 18

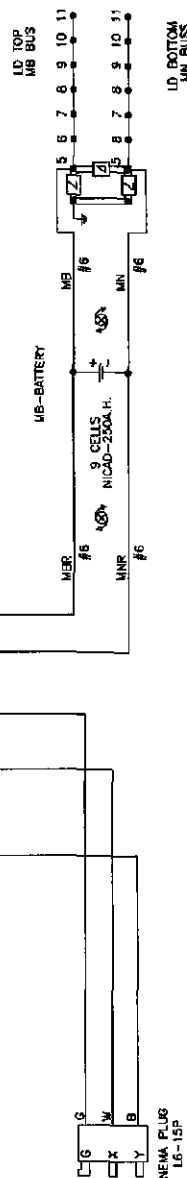
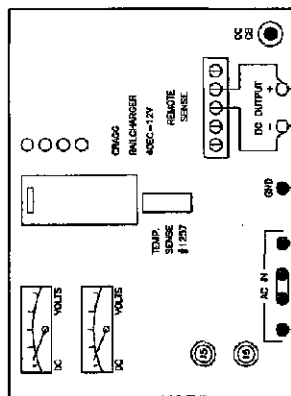
**Abingdon Railway**
Wheeling & Lake Erie**W81E**

BEAT ROAD/TOWNSHIP RD 106
LITCHFIELD, OHIO

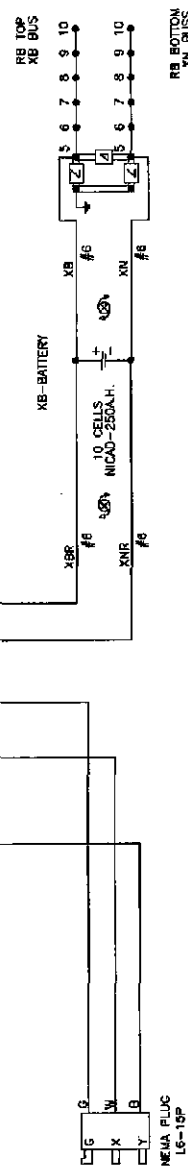
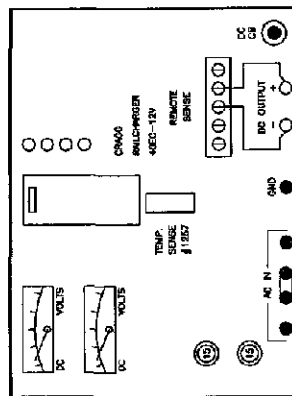
DISPOSITION DATE	11/04/2008	TIME	GATE #2 LIGHTS (FAR SIDE)
DISPATCH		3018	AIRCRAFT
NOTIFY/STATUS		1004P	SCALE
			1"=3'
DISPATCH		1007N	ENROUTE
			12 ac 18

**2007
BLOOM
INSTITUTE**

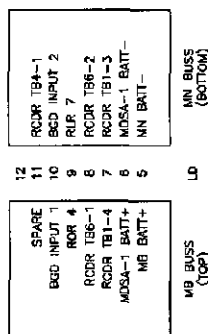
MB-CHARGER



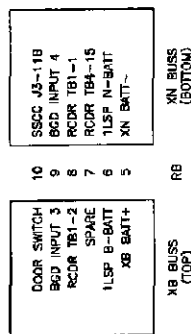
XB-CHARGER



BATTERY BUSS DETAILS



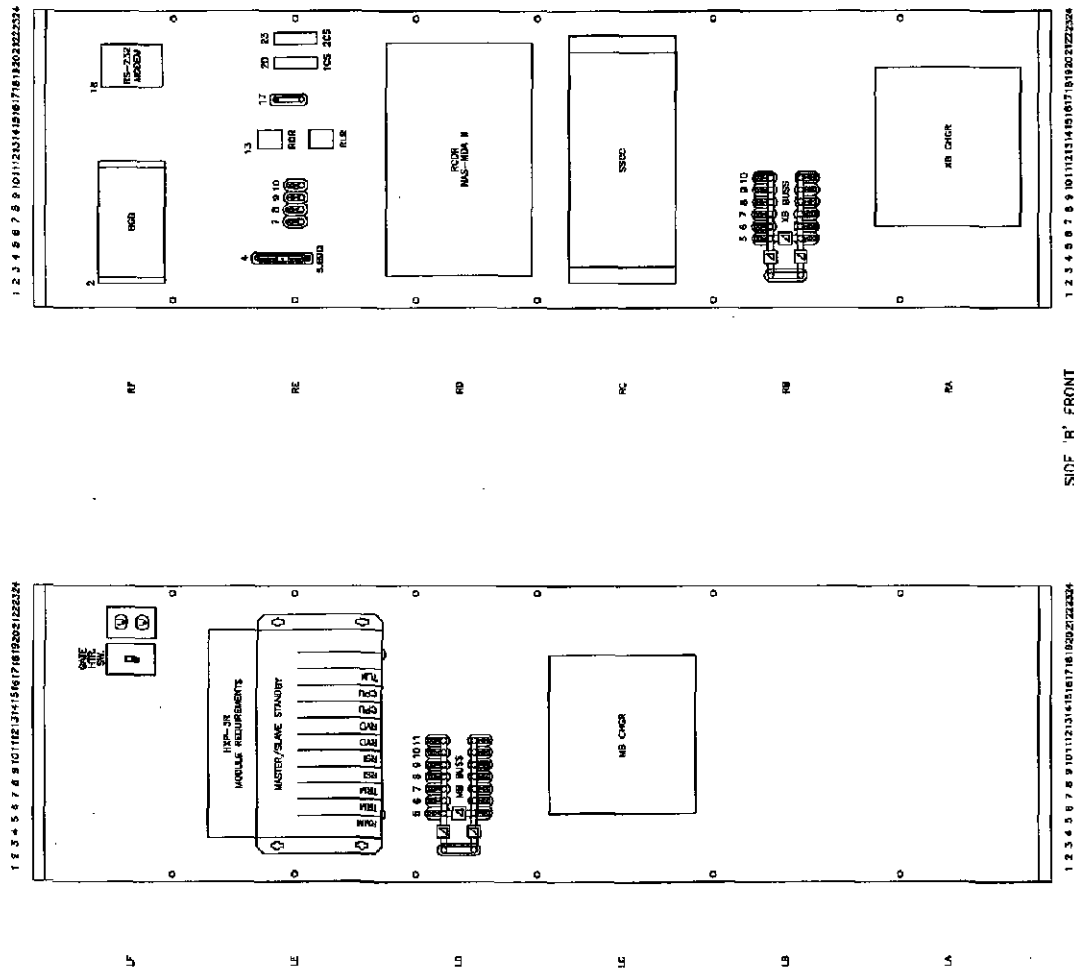
BATTERY BUSS DETAILS



Wheeling & Lake Erie
Railway

BEAT ROAD/TOWNSHIP RD 106
LITCHFIELD, OHIO

DATE	TIME	FILE	CHARGE
11/24/2008	13:00	ARROW	CT10009
1-2	1-2	1-2	1-2
1-2	1-2	1-2	1-2
1-2	1-2	1-2	1-2

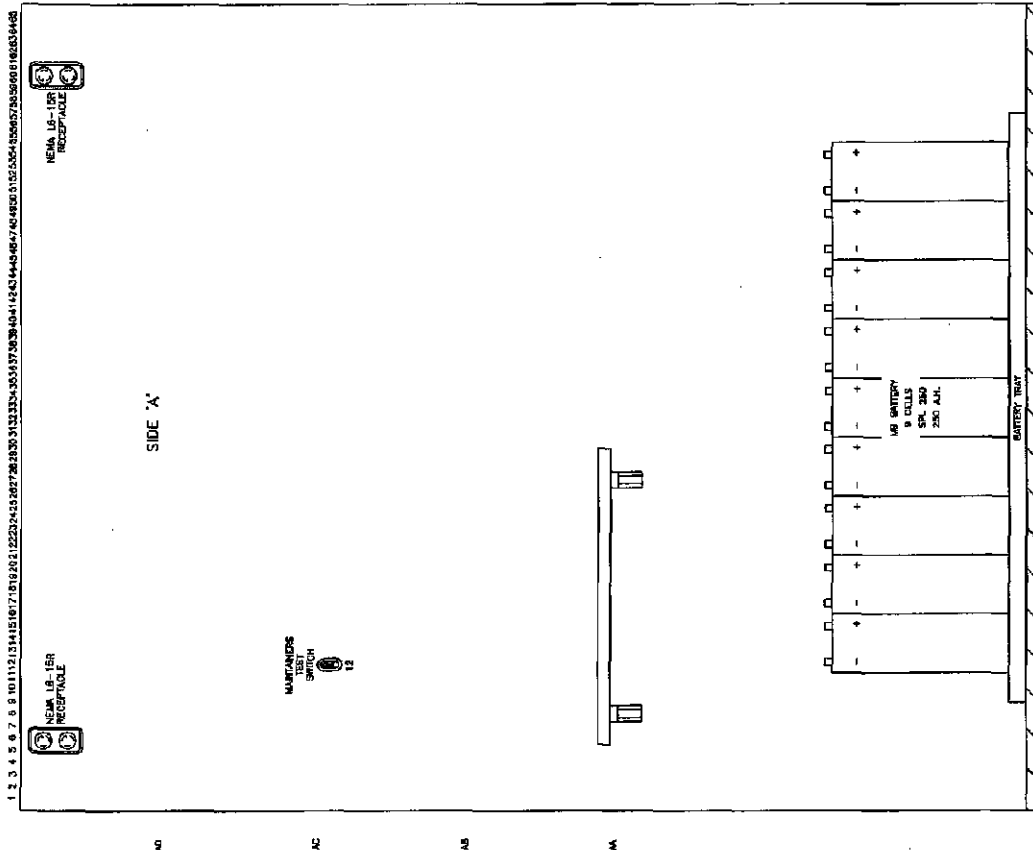


Whodunnit & Lake Erie Railway

W&L

BEAT ROAD/TOWNSHIP RD 108
LITCHFIELD, OHIO

ORIGINAL DATE 11/04/2009	FILE	BACK #POINT VIEW	SIG NO.	C310039
DESIGNER	SUB	ARRON	SCALE	1"=2'
DRAWN BY	GRAPH	A132.5		
REVISION	DATE NO.	022 08/11		15 or 1



Wheeling & Lake Erie Railway

778M

BEAT ROAD/TOWNSHIP RD 106
LITCHFIELD, OHIO

DESIGNER	SUB	SIDE "A"	DATE
UNIVERSITY	WHP	A12.5	11/04/2009
CHUCK	DOT NO. D02	067N	
	SCALE	1"=2'	
	SHEET	17 OF 18	
	CITY NO.	CT10009	

**NOISE
BLOCK**

