

FILE

22

WHEELING & LAKE ERIE RAILWAY COMPANY

Dan Reinsel
Signal & Communication Supervisor

100 East First Street
Brewster, OH 44613

Tel. 330-767-7202

dreinsel@wlerwy.com

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 Root Road Xing DOT 002-053F

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
<u>Gate Foundations</u>	<u>\$918.00</u>
Est. Total	\$159,897.65

RECEIVED-DOCKETING DIV
2010 MAR 30 PM 2:46
PUCO

Respectfully,
Dan Reinsel
Dan Reinsel

c: PUCO Docketing
PUCO Jill Henry

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Technician bmm Date Processed 03/30/10

**Wheeling & Lake Erie Railway Co.
Root Road (CR 58) - Project Estimate
CTC Project No. CT10011**

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				\$3,092.28
	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)	28	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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CONSTRUCTION NOTES

- 1.) REMOVE HWS SHUNT FOR SPENCER LAKE RD AND REPLACE WITH NEW 210 HZ TNBS.
- 2.) RECALIBRATE SPENCER LAKE RD FOR NEW TNBS
- 3.) NEAREST ADDRESSES TO THE NORTH OF CROSSING IS 5923 ROOT ROAD AND TO THE SOUTH OF CROSSING IS 5999 ROOT RD.
- 4.) NEAREST ELECTRIC POLE IS LOCATED APPROX. 14' EAST OF EDGE OF ROAD; PERPENDICULAR TO A POINT 20' SOUTH OF THE NEAR RAIL MEASURED ALONG THE CENTERLINE OF THE ROAD (IN THE FRONT YARD OF 5999 ROOT RD). PROVIDER OF SERVICE IS LORAIN MEDINA RURAL ELECTRIC, 3_23_3

W&LE

**Wheeling & Lake Erie
Railway**

LOCATION

ROOT RD./CR 58
SPENCER, OHIO

DATE: 11/04/2000 FILE: SITE LAYOUT NOTES

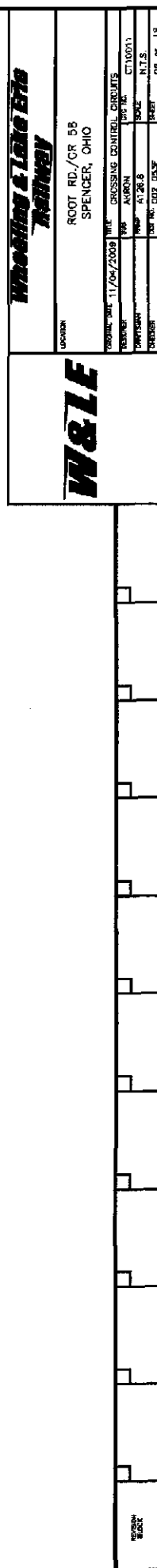
DESIGNER: JAWON FOR PK: CT10011

DRAWN: A136.2 SCALE: N.T.S.

CHECKED: JAWON DATE: 11/04/2000

APPROVED: JAWON DATE: 11/04/2000

REVISION BLOCK



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

HYPER-3B ADJUSTMENTS

NO.	ADJUSTMENT NAME	TRACK 1	TRACK 2
1	APP. LENGTH	2405'	
2	WARNING TIME	36 SEC	
3	LIA	*	
4	TC	*	
5	WD RESTART	0	

OPTION ADJUSTMENTS

NO.	ABBREVIATION	TRACK 1	TRACK 2
1	TK-ENA	UP	
2	TK FO	325 HZ	
3	OW/M/D	C	
4	UNI-BI	B (BI)	
5	NBS-C	*	
6	CHEWT	DL (50 SEC.)	
7	LOS	DL (16 SEC.)	
8	I-I-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	dn	
	OF TK 1 OR 2		
	CJ-I-LOS	DL (0)	
	PJ-DET	DL (0)	
	PJ-RX	DL (15)	
18	MD-TMR	DL (15)	
19	MIN-WT	DL (10)	
20	PS-DET	dn	
	PS-RX	DL (0)	
	PS-TM	DL (10)	
21	POS-ST	dn	
	POS-RX	DL (0)	
	POS-TM	DL (0)	
22	APT-TMR	dn	
	AP-RX	DL (0)	
	AR-TM	DL (10)	
47	XAO-RX	UP	
48	XAO-TM	dn	

AX ADJUSTMENTS

NO.	ABBREVIATION	AX 1	AX 2	AX 3
1	TK-ASNI			
2	GF-T21			
3	OK-K2			
4	VT			
5	MD-RST			
6	CW/MD			
7	CL-LOS			
8	PJ-BET			
9	PJ-RK			
10	POS-ST			

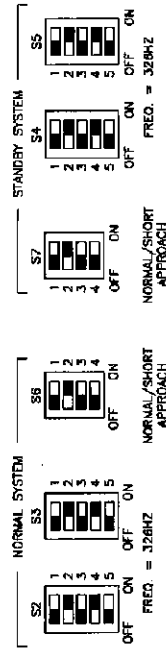
SWITCH INFORMATION

SWITCH		TRACK 1	TRACK 2
MASTER/SLAVE		MASTER	
RSI FAULT JUMPER		0	
RSI-LOS JUMPER		1	
TLM #1 JUMPER		PINS 1-2	
TLM #2 JUMPER		PINS 1-2	
TLM #3 JUMPER		PINS 2-3	
MINUTE TIMEOUT		5 MIN	
CW/NO		CW	
STANDBY FAULT/NOBLANK		AUTO	

NOTE: DL= DEFAULT LEVEL
NA= NON APPLICABLE

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.

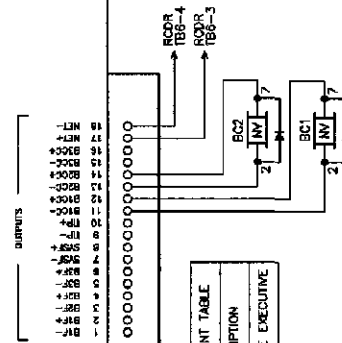
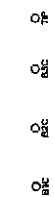
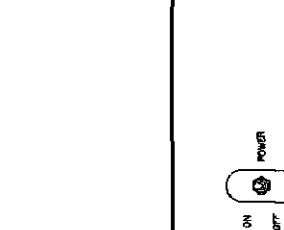


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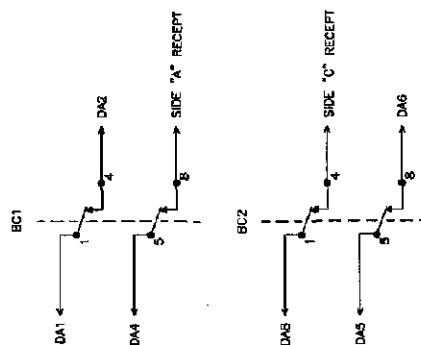
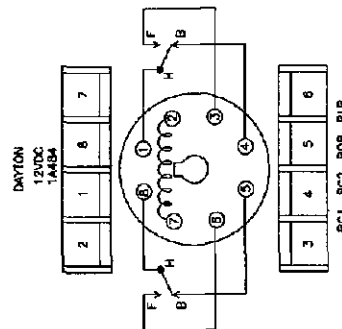
Traveling & Living Easy

ROOT RD./CR 58
SPENCER, OHIO

ORIGINAL DATE 11/04/2008	FILE	LOOP PROGRAM INFORMATION	
DESIGN	SUB	ASPCN	CT10011
DATE/TIME	INAP	A12.6	DOUL N.T.S.
LOCATION	LOT NO.	002	053F
			SHEET 03 OF 18



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



POSITION	1	2	3	4	5	6	7	8
CLOSED								
OPEN								

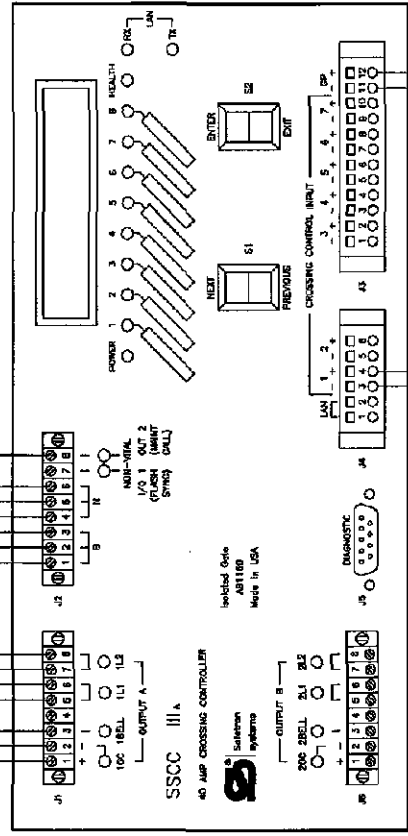
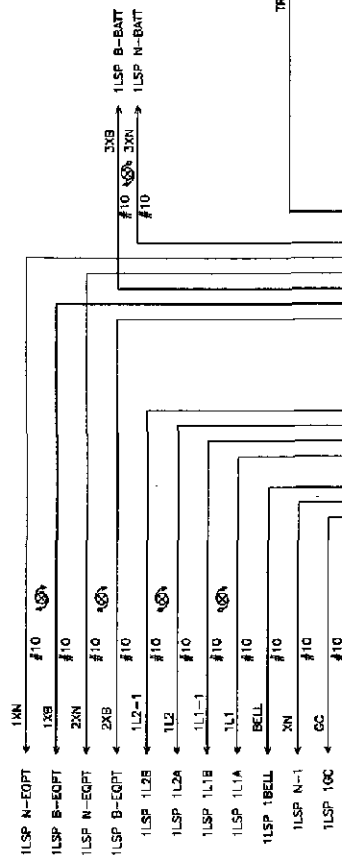
POSITION	1	2	3	4	5	6	7	8
CLOSED								
OPEN								

SWITCH VALUES CLOSED
POSITION {BINARY}

8 = 12

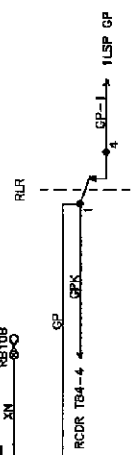
SWITCH VALUES CLOSED
POSITION (BINARY)

243



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

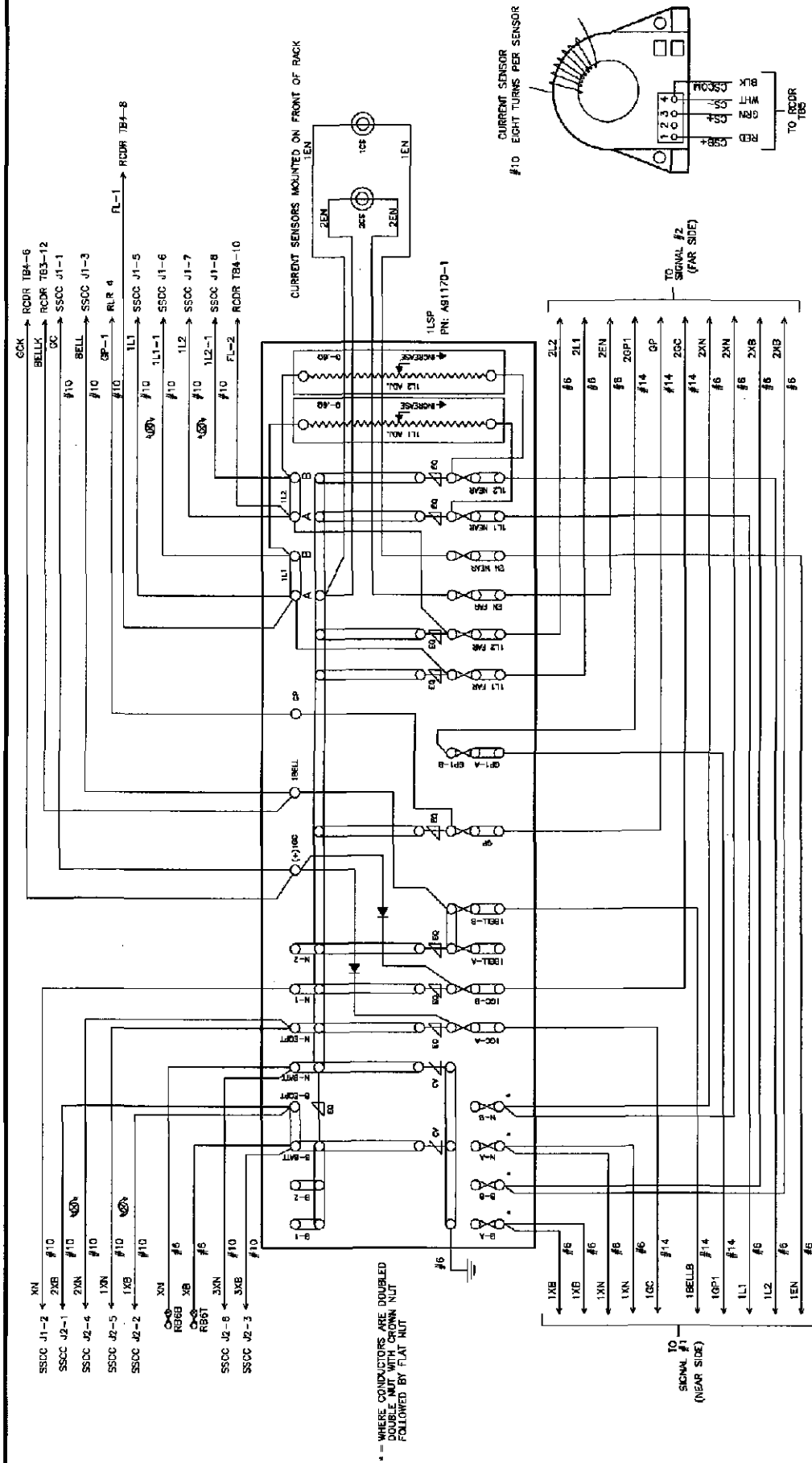
WARNING
IF B OR N ARE FULLY OR PARTIALLY REMOVED, SIGNALS AND/OR GATES MAY NOT OPERATE AS INTENDED. TAKE ALTERNATE MEANS TO WARN VEHICULAR TRAFFIC AND EMPLOYEES.



Wooling & Lake Erie Railway

LOCATION: ROOT RD./CR 58
SPENCER, OHIO

DATE: 11/04/2000	TIME: 11:00	BY: J. H. H.
REVISION: 1	REVISION: 2	REVISION: 3
REVISION: 4	REVISION: 5	REVISION: 6
REVISION: 7	REVISION: 8	REVISION: 9
REVISION: 10	REVISION: 11	REVISION: 12
REVISION: 13	REVISION: 14	REVISION: 15
REVISION: 16	REVISION: 17	REVISION: 18
REVISION: 19	REVISION: 20	REVISION: 21
REVISION: 22	REVISION: 23	REVISION: 24
REVISION: 25	REVISION: 26	REVISION: 27
REVISION: 28	REVISION: 29	REVISION: 30
REVISION: 31	REVISION: 32	REVISION: 33
REVISION: 34	REVISION: 35	REVISION: 36
REVISION: 37	REVISION: 38	REVISION: 39
REVISION: 40	REVISION: 41	REVISION: 42
REVISION: 43	REVISION: 44	REVISION: 45
REVISION: 46	REVISION: 47	REVISION: 48
REVISION: 49	REVISION: 50	REVISION: 51
REVISION: 52	REVISION: 53	REVISION: 54
REVISION: 55	REVISION: 56	REVISION: 57
REVISION: 58	REVISION: 59	REVISION: 60
REVISION: 61	REVISION: 62	REVISION: 63
REVISION: 64	REVISION: 65	REVISION: 66
REVISION: 67	REVISION: 68	REVISION: 69
REVISION: 70	REVISION: 71	REVISION: 72
REVISION: 73	REVISION: 74	REVISION: 75
REVISION: 76	REVISION: 77	REVISION: 78
REVISION: 79	REVISION: 80	REVISION: 81
REVISION: 82	REVISION: 83	REVISION: 84
REVISION: 85	REVISION: 86	REVISION: 87
REVISION: 88	REVISION: 89	REVISION: 90
REVISION: 91	REVISION: 92	REVISION: 93
REVISION: 94	REVISION: 95	REVISION: 96
REVISION: 97	REVISION: 98	REVISION: 99
REVISION: 100	REVISION: 101	REVISION: 102



W&LE

Wheeling & Lake Erie
Railway

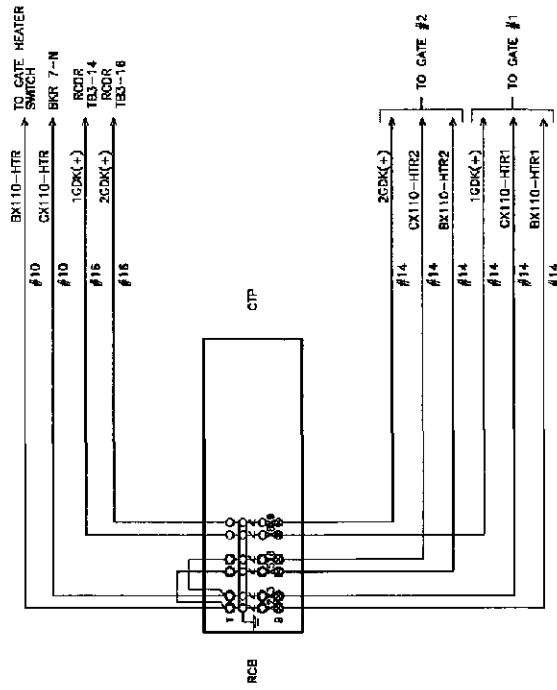
LOCATION: ROOT RD./CR 58
SPENCER, OHIO

DATE: 11/04/2009 TIME: 11:50

PROJECT: RAILROAD

DESIGNER: N.J.S.

CHECKED: 07 OF 15



**Wheeling & Lake Erie
Railway**

LOCATION
ROOT RD./CR 58
SPENCER, OHIO

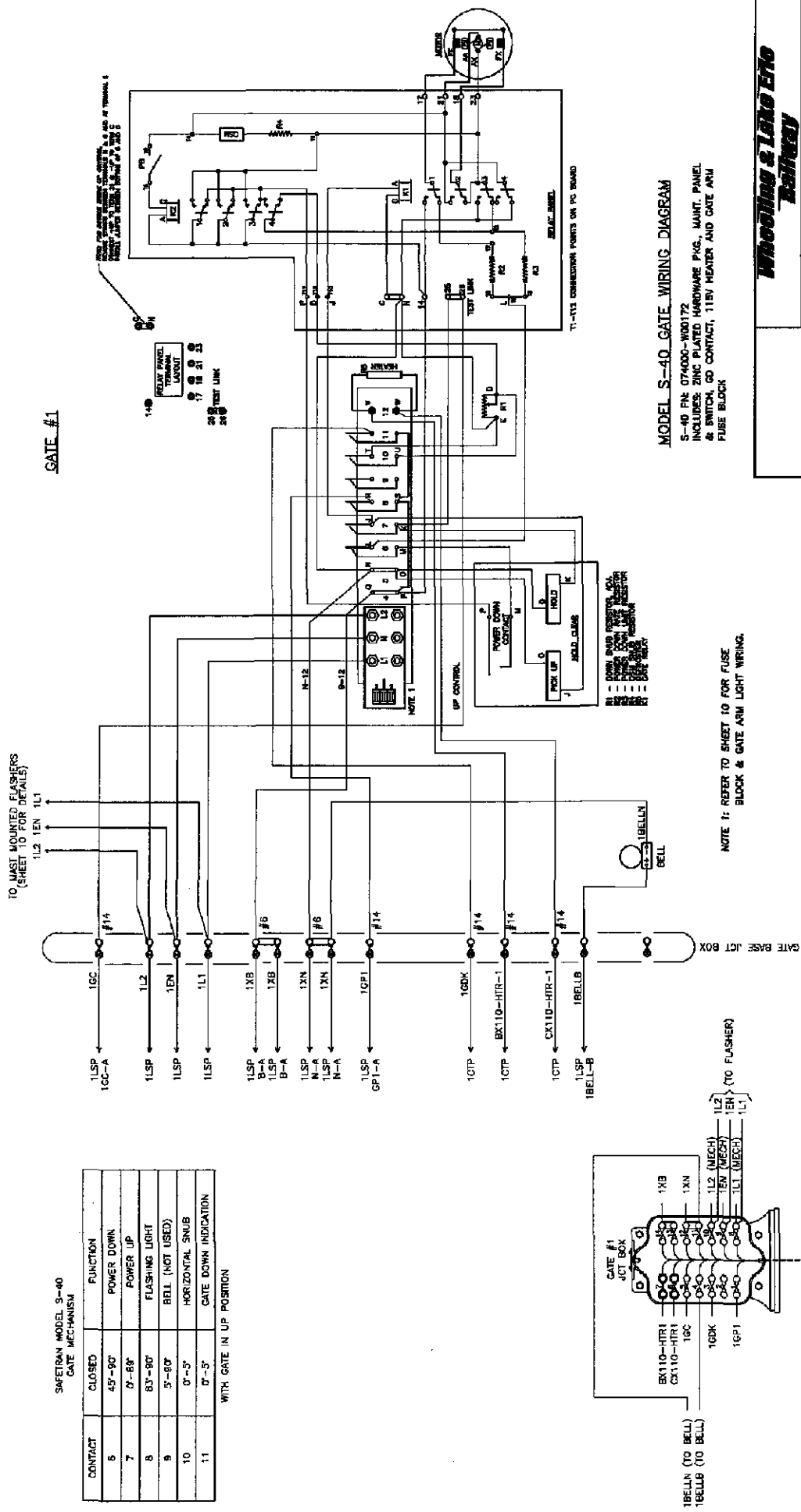
ISSUED MAY 11/04/2003	WKS	CTP	CTC NO.	GT0011
DESIGNED BY	348	AKRON	SPD	N.J.S.
CHECKED BY	348	AKRON	SPD	N.J.S.
DATE	02/03/03	03/03/03	03/03/03	03/03/03

W&LE

W&LE

CONTACT	CLOSED	FUNCTION
5	45°-90°	POWER DOWN
7	0°-80°	POWER UP
8	83°-90°	FLASHING LIGHT
9	5°-80°	RELL (NOT USED)
10	0°-5°	HORIZONTAL SNUB
11	0°-5°	CAGE DOWN INDICATION

WITH GATE IN UP POSITION



MODEL S-40 GATE WIRING DIAGRAM
S-40 PN 074000-W00172
INCLUDES: ZINC PLATED HARDWARE PKGS., MAINT. PAN
& SWITCH, 115V HEATER AND GATE ARI
FUSE BLOCK

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

**Whooling & Lingo Etc
Railway****184**

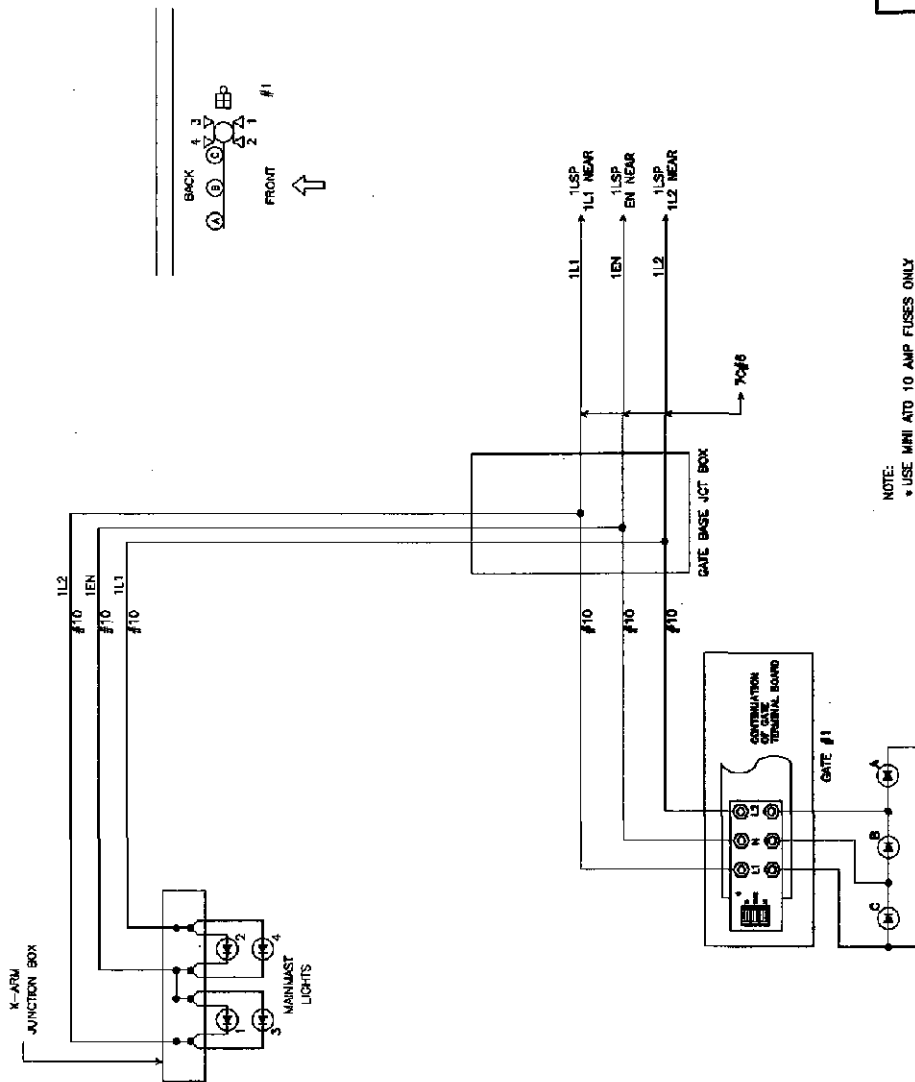
ROOT RD./CR 58
SPENCER, OHIO

ORIGINAL DATE	11/06/2008	FILE	GATE #1 MECHANISM (NEAR SIDE)
DESIGNER	SUB	AKRON	PRC NO.
DRAWN BY	1000P	A126.2	SCALE
CHECKED	1001N	002.053F	UNIT
			AD. PR. 1.2

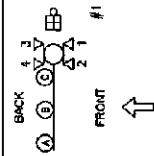
HOUSTON

	N.I.S.
	PNO. OF I.R.
TREASURY	007 MI.
	002 053F

GATE #1



NOTE:
* USE MINI AUTO 10 AMP FUSES ONLY



Wheeling & Lake Erie
Railway

W&LE

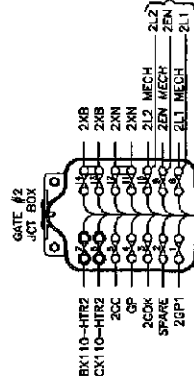
LOCATION
ROOT RD./CR 56
SPENCER, OHIO

DESIGN NO.	17/04/2020	DATE	GATE #1 LIGHTS (NIPAL SHIP)
DESIGNER	CT	DATE	CT 0611
REVISION	AT 05.3	DATE	N.T.S.
PROJECT	W&LE 002 063F	DATE	10.06.18

ADDITION
BLOCK

CONTACT	CLOSED	FUNCTION
6	45°-90°	POWER DOWN
7	0°-88°	POWER UP
8	83°-90°	FLASHING LIGHT
9	5°-90°	BELL (NOT USED)
10	0°-5°	HORIZONTAL SNUB
11	0°-5°	GATE DOWN INDICATION

WITH GATE IN UP POSITION



9 CABLES TO CASE

MODEL S-40 GATE WIRING DIAGRAM
S-40 PN: 074000-000172
INCLUDES: ZINC PLATED HARDWARE PKG., MAINT. PANI
& SWITCH, GD CONTACT, 115V HEATER AND GATE ARM
FUSE BLOCK

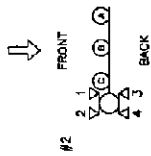
Woodling & Lake Erie Railway

W87E

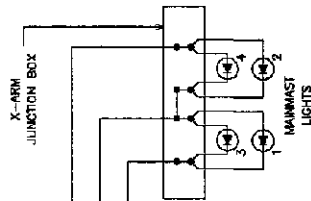
ROOT RD./CR 58
SPENCER, OHIO

CHARGE DATE	11/04/2009	TITLE	GATE #2 MECHANISM (FAR SIDE)
DESSIGN	SUB	ACRON	DOC NO. CT10011
DESCRIPTION	PRD	11/24/8	ROLE N.T.S.
CHARGE	DOT NO.	002 0536	BRIEF 11 OF 18

Discussion



GATE #2



1LSP
1L2FAR

1LSP
EN FAR

1LSP
1L1 FAR

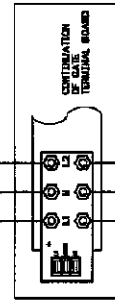
2L2 #10

2EN #10

2L1 #10

GATE BASE JCT BOX

7C#6



GATE #2

NOTE:
* USE MIN. 10 AMP FUSES ONLY

W&LE

Wheeling & Lake Erie
Railway

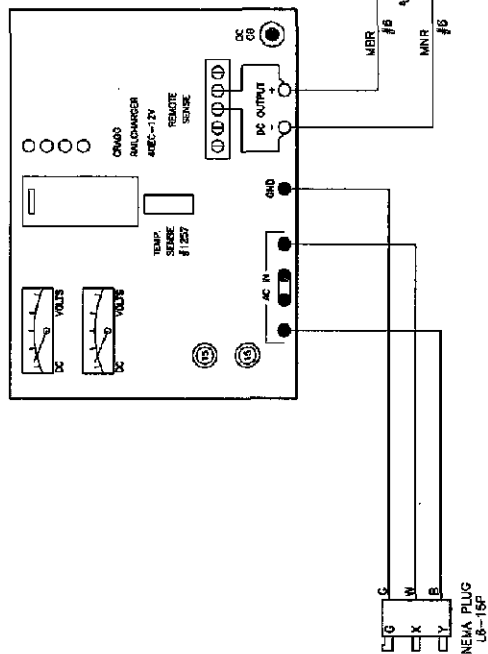
LOGO

ROOT RD./OR 58
SPENCER, OHIO

ORIGINAL DATE	11/24/2003	FILE	DATE #2 LIGHTS [FOR SIZE]
DESIGNED BY	W&LE	APP. BY	W&LE
CHECKED BY	W&LE	DATE	11-5'
ORDER NO.	W&LE 002 053F	SHEET	12 OF 16

SECTION
BLOCK

MB-CHARGER



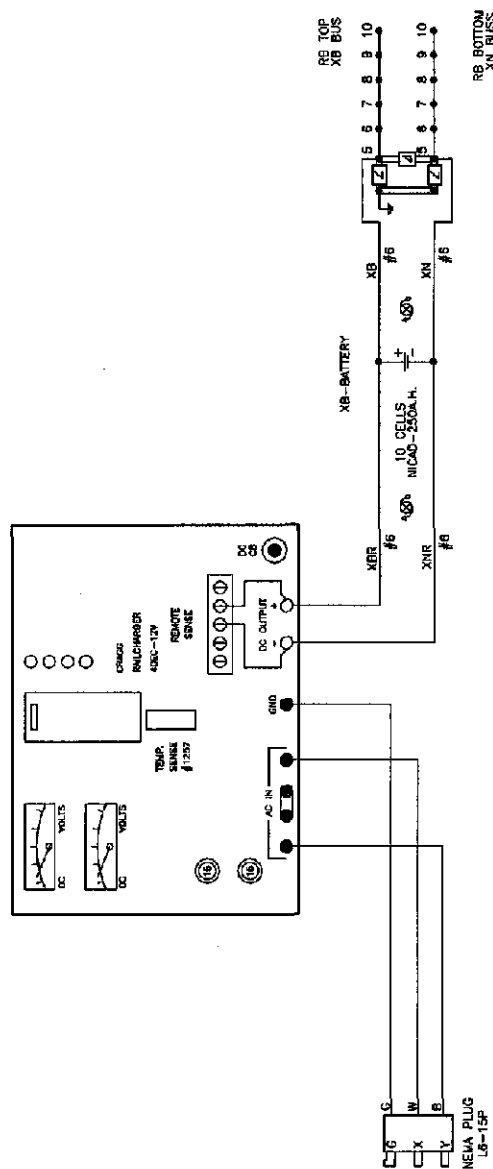
BATTERY BUSS DETAILS

12	RCOR T84-1
11	RCOR INPUT 2
10	RCOR T86-2
9	RCOR T86-1
8	RCOR T81-3
7	MDSA-1 BATT+
6	MN BATT-
5	MN BATT-
4	MB BASS (TOP)
3	MB BASS (BOTTOM)
2	RCOR T84-1
1	RCOR INPUT 2

BATTERY BUSS DETAILS

10	SSCC J3-11B
9	RCOR T81-1
8	RCOR T84-15
7	1LSP N-BATT
6	XN BATT-
5	XN BATT-
4	XB BASS (TOP)
3	XB BASS (BOTTOM)
2	RCOR T81-1
1	RCOR T84-15

XB-CHARGER

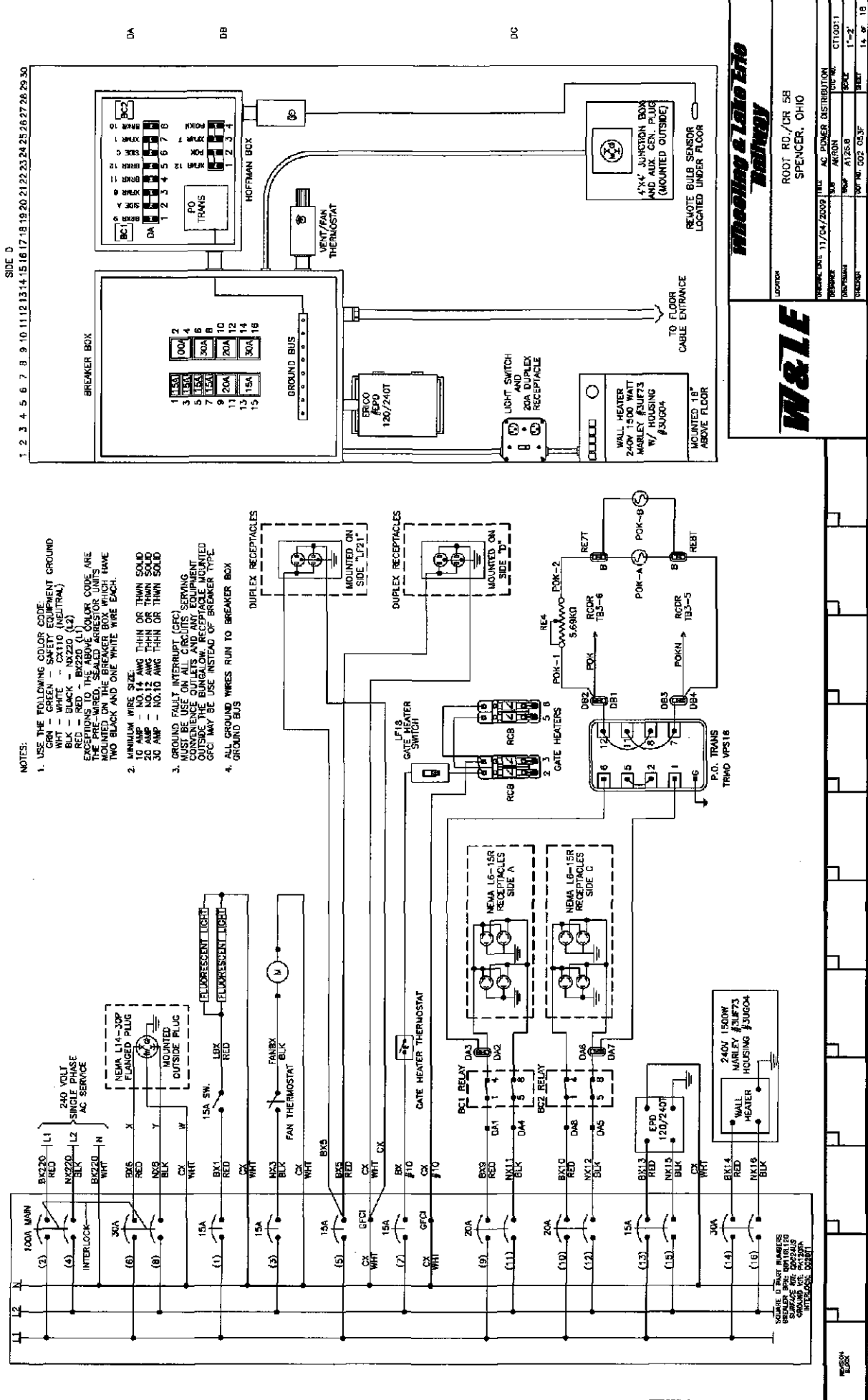


W&L

**Wheeling & Lake Erie
Railway**

ROOT RD./CR 58
SPENCER, OHIO

DATE	11/04/2009	FILE	BATTERY CHARGER
DESIGNER	SS	PROJECT	RCOR
DRAWN	W&L	SCALE	1"=2'
CHECKED		DATE	11/04/2009
APPROVED		DATE	11/04/2009



ACAPAC Wheeling & Lake Erie

ROOT RD./CR 58
SPENCER, OHIO

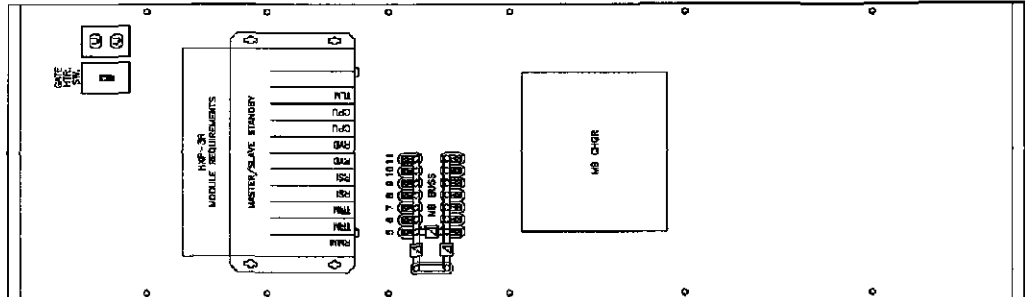
784

NOTES

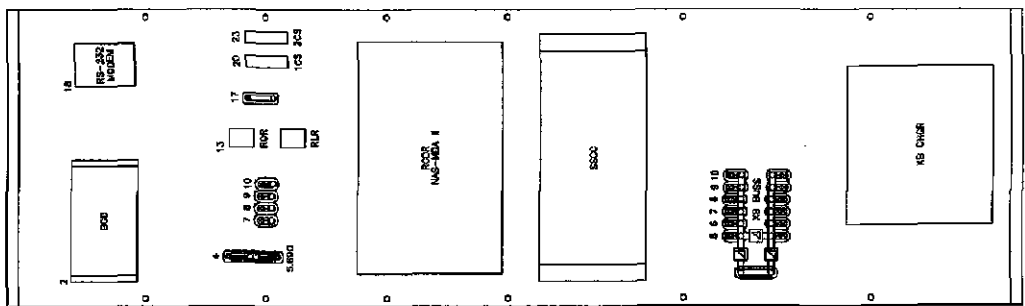
ORDERING DATE	11/04/2009	TITLE	AC POWER DISTRIBUTION
DRAWING	SUB	AC/IRON	TOT NO. CTT0011
DESCRIPTION	NOOF	A125.0	SQFT 1'-2'
QUANTITY	TOT NO.	002	CU.FT 14.00 18

NOTES

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24



SIDE 'B' FRONT

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

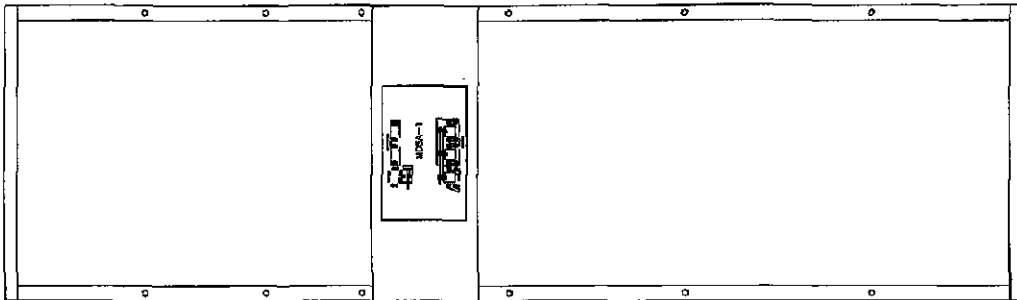
Wheeling & Lake Erie
Railway

ROOT RD./CR 58
SPENCER, OHIO

W&LE

DATE: 11/04/2003	FILE: 11/04/2003	SCALE: 1"=2'	15' x 18'
DESIGNER: W&LE	PROJECT: RAILROAD	DATE: 11/04/2003	15' x 18'
DRAWN: W&LE	PROJECT: RAILROAD	DATE: 11/04/2003	15' x 18'
CHECKED: W&LE	PROJECT: RAILROAD	DATE: 11/04/2003	15' x 18'
APPROVED: W&LE	PROJECT: RAILROAD	DATE: 11/04/2003	15' x 18'

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24



LUB

LUB

LUB

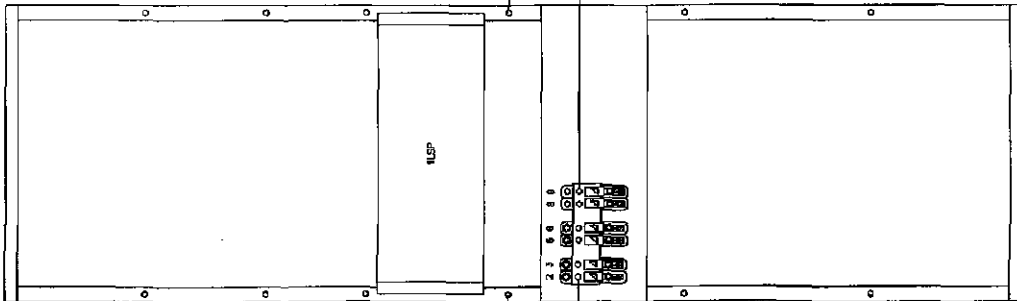
LUB

LUB

LUB

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24



RUB

RUB

RUB

RUB

RUB

RUB

SIDE 'B' BACK

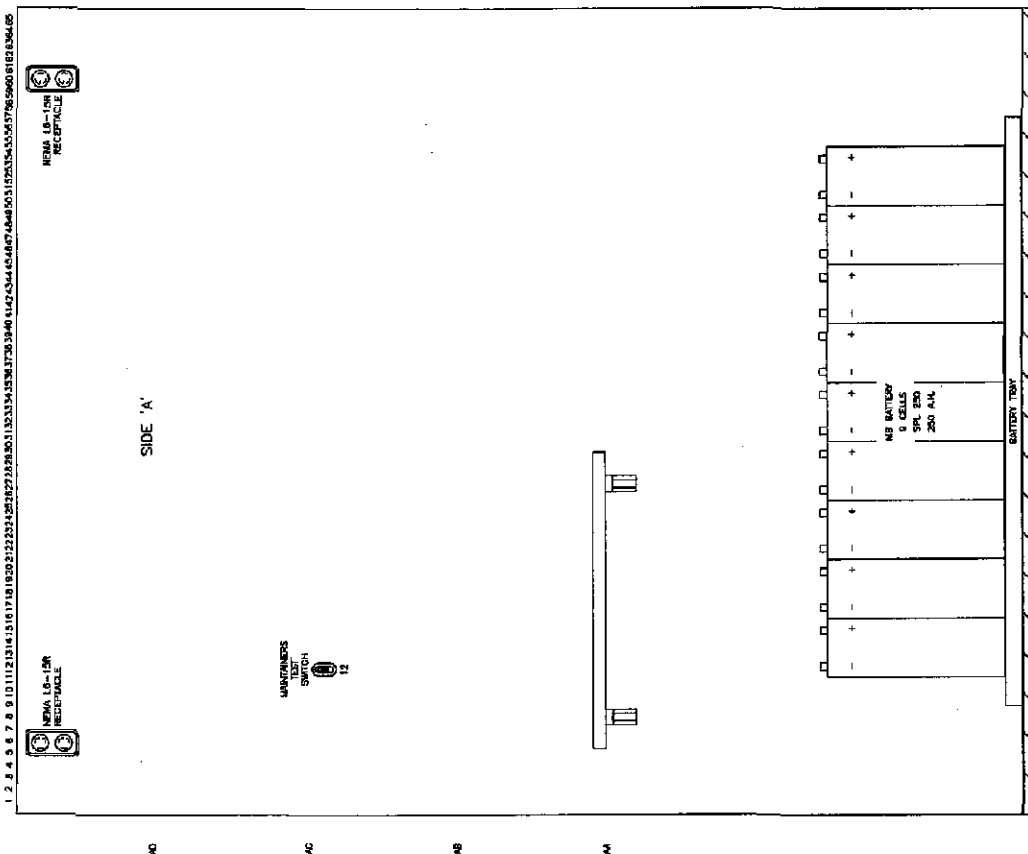
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

Wheeling & Lake Erie
Railway

LOCUS
ROOT RD./CR 58
SPENCER, OHIO

DATE: 11/04/2008
DRAWN: [blank]
CHECKED: [blank]
SCALE: 1"=2'
SHEET: 16 OF 18

W&LE



ARMYING WHEELING & LANSING

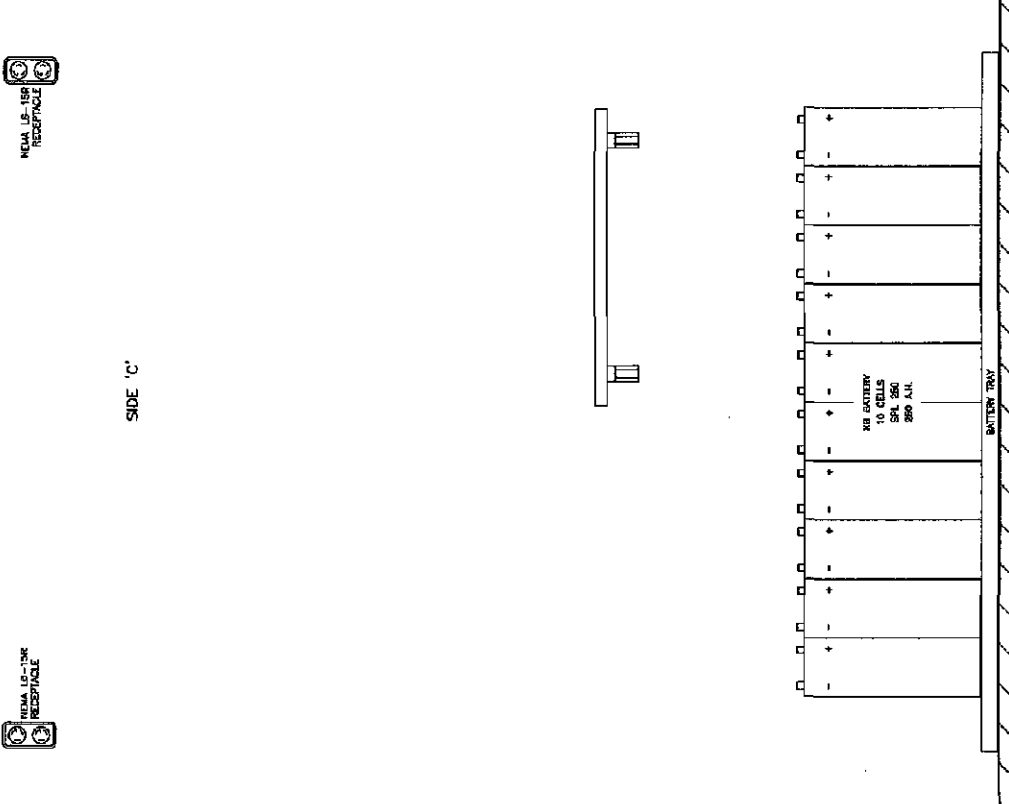
ROOT RD./CR 58
SPENCER, OHIO

ORIGINAL DATE 11/04/2009 TIME SIDE "A"

540	AFRICAN	GTC NO. GT10011
1800P	A126.B	ISOLS 1'-2'

NOTES

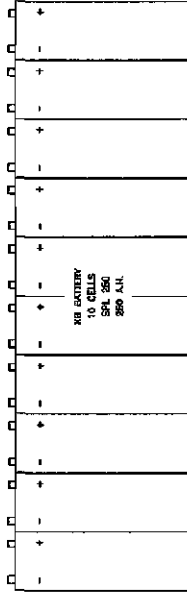
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100



SIDE 'C'

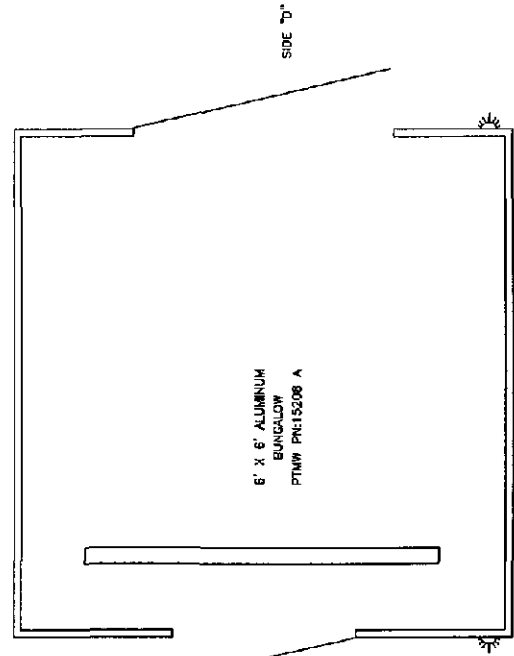
REMA LP-TOR
RECEPTACLE

REMA LP-TOR
RECEPTACLE



BATTERY TRAY

THIS SIDE TO FIELD
SIDE 'C'



6' X 6' ALUMINUM
BUNGALOW
PTMWP PNC15206 A

SIDE 'B'

SIDE 'D'

THIS SIDE TO TRACKS
SIDE 'A'

Winning & Lato Eto
Railway

W&LE

LOCATION
ROOT RD./CR 58
SPENCER, OHIO

DATE: 11/04/2009	TIME: 11:00 AM	BY: J. L. L.
PROJECT: 010011	NO. 1768	1"=2'
TOTAL	100' 00" 00.00	18' 00" 00.00

SECTION
BLANK