FILE

30

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**

29 October 2010

Public Utilities Commission of Ohio
Attn: Docketing Division 13th Floor
180 East Broad Street
Columbus, OH 43215-3793

10-876-RR-FED

Re: Estimates for crossing warning systems, Pleasant Home Road Crossing, DOT# 473-528U

Dear Docketing,

Please file this letter and the accompanying materials in the dockets for the identified crossing project. As required by the Finding and Order this letter is notice that the W&LE has submitted plans and estimates to the Commission for the above identified project.

Respectfully,

Dan Reinsel

Dan Reinsel

encl.

RECEIVED-DOCKETING DIV
2010 NOV -2 PM 1:18
PUCO

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 ac Date Processed 11-2-2010

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**

28 Oct. 2010

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

Re: Estimate for Railroad Crossing Warning System at Pleasant Home Road DOT 473-528U

Dear Mr. Reinhardt,

The estimate for the installation of gates and flashers is:

CTC Managed Services & Package Installation	$149,184.33
Fill Materials	$5,000.00
Fill Material Transport	$1,750.00
Site Preparation (foundations, bores, berm wall)	$27,000.00
Electric Service Extension, AEP	$3,500.00
WLE Cutover & Flagging Labor	$3,000.00
Estimated Total	$189,434.33

Actual cost for the material package will be the result of competitive bidding. The crossing system installation will be performed under our continuous construction agreement with CTC, a copy of which has been provided to the ORDC.

The overall cost for this one installation will be higher then our typical due in most part from the requirement of a large berm wall. The drop in elevation from track level to the surrounding ground is approximately 15 feet. It is our intention to erect a two step berm wall in the north west quadrant to support the control cabinet. In addition two smaller berm walls will be positioned at each gate. One gate will be equipped with a small platform. Hand rails will be provided.

Please contact me if additional details are required.

Respectfully,

Dan Reinsel

Dan Reinsel

c: PUCO, Jill Henry

RECEIVED-DOCKETING DIV
2010 NOV -2 PM 1:18
PUCO

Wheeling & Lake Erie Railway Co.
Pleasant Home Road (CR 48) - Project Estimate
CTC Project No. CT10100

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 INCL FIELD VISIT	16	HR	36.06	$576.96
	SUBTOTAL				$1,712.16
	G&A BURDEN FOR LABOR				$3,133.25
	FIXED FEE				$484.54
	ENGINEERING TOTAL				$5,329.95

PROJECT MANAGEMENT

Line No.	Description	Qty	UOM	Cost	Total Cost
1	SENIOR SIGNAL ENGINEER	24	HR	72.11	$1,730.64
2	PROJECT MANAGER	12	HR	60.10	$721.20
3	CONSTRUCTION MANAGER	24	HR	36.06	$865.44
4	ACCOUNTING, LEVEL1	4	HR	39.81	$159.24
5	ADMINISTRATIVE	4	HR	25.48	$101.92
	SUBTOTAL				$3,578.44
	G&A BURDEN FOR LABOR				$6,548.55
	FIXED FEE				$1,012.70
	PROJECT MANAGEMENT TOTAL				**$11,139.68**

CONSTRUCTION

Line No.	Description	Qty	UOM	Cost	Total Cost
	LABOR				
1	SIGNAL GANG, FOREMAN	50	HR	28.50	$1,425.00
2	SIGNAL GANG, SIGNALMAN	50	HR	19.50	$975.00
3	SIGNAL GANG, SIGNALMAN HELPER	50	HR	19.00	$950.00
4	SIGNAL GANG, SIGNALMAN HELPER	50	HR	19.00	$950.00
5	SIGNAL SUPERVISOR	8	HR	36.06	$288.48
	Expenses				
6	EMPLOYEE MEALS (PER DIEM)	22	EA	35.00	$770.00
7	EMPLOYEE TRAVEL & LODGING	22	EA	55.00	$1,210.00
8	AIRFARE	5	EA	500.00	$2,500.00
7	TRUCK, PU, 1 TON CREW CAB	50	HR	12.20	$610.00
8	TRAILER	50	HR	3.76	$188.00
9	TRUCK, BOOM, ART, TELESCOPING	4	HR	55.95	$223.80
10	BACKHOE, 2WD, 95 HP	4	DY	250.00	$1,000.00
11	EQUIPMENT DELIVERY/PICKUP	2	LS	50.00	$100.00
	SUBTOTAL-LABOR				$4,588.48
	SUBTOTAL-EXPENSES/EQUIPMENT				$6,601.80
	G&A BURDEN FOR LABOR				$8,396.92
	FIXED FEE				$1,298.54
	CONSTRUCTION TOTAL				**$20,885.74**

MATERIALS

Line No.	Description	Qty	UOM	Cost	Total Cost
1	MATERIAL PACKAGE	1	LOT	111,828.95	$111,828.95
	MATERIAL TOTAL				**$111,828.95**

TOTAL PROJECT COST (CTC)	$149,184.33

W&LE - Pleasant Home Road Project
Smithville, Ohio
MATERIAL ESTIMATE - Pleasant Home Road/CR 48
CTC PROJECT NUMBER - CT10100
(ORDC)

Line No.	Description	Qty	UOM	Cost	Total Cost
2	Flasher/Gate Assembly	2	EA	12,500.00	$25,000.00
	SINGLE 11-11/16" x 11-11/16" CAST ALUMINUM JUNCTION BOX FOR 5" MAST COMPLETE W/ ALL HARDWARE, TERMINAL BLOCKS, ETC. TO INCLUDE RODENT PLATE. JUNCTION BOX SHALL BE CAPABLE OF ACCOMODATING A MINIMUM OF SEVENTEEN (17) CABLE TERMINATIONS.				
	MAST SHALL BE 5" x 17' IN LENGTH. MAST TO INCLUDE WELDED GROUND PIGTAIL FOR #2 GA. COPPER WIRE.				
	FOUNDATION (see below)				
	COMPLETE RAILROAD CROSSING SIGN ASSEMBLY TO BE FURNISHED. CONSISTING OF DOUBLE FACE EXTRUDED ALUMINUM 3M DIAMOND GRADE RAILROAD CROSSING SIGN COMPLETE WITH U-BOLT MOUNTING KIT AND EXTENSION ARMS FOR 5" MAST.				
	SAFETRAN S-40 GATE MECHANISM COMPLETE WITH MOUNTING HARDWARE, 1.5" FLEXIBLE CONDUIT, CONDUIT FITTINGS AND POLE SADDLE. MECH TO INCLUDE 110V HEATER ASSY.				
	TWO COUNTERWEIGHT ARM ASSEMBLIES. GATE COUNTERWEIGHTS AND GATE ARMS SELECTED SHALL HAVE MINIMUM OVERHANG TO ALLOW FOR HIGH SNOW CONDITIONS.				
	HIGH WIND BRACKET				
	GATE KEEPER SK1000-2W DUAL DIRECTION				
	NO GATE ASSEMBLY (ORDERED SEPERATELY)				
	NO GATE LIGHTS (ORDERED SEPERATELY)				
	2-WAY 12" LIGHT HOUSINGS WITH 24" ALUMINUM BACKGROUNDS AND LED UNITS WITH ALL HARDWARE.				
	ELECTRONIC BELL				
	NO PINNACLE (Not Required)				
2	Flasher/Gate Assembly (LSOR)		EA	0.00	$0.00
2	Gate Arm kit, 16'-32', LED lights, wiring	2	EA	540.00	$1,080.00
2	Diode tip package		EA	55.00	$0.00
2	Gate Torque Wrench with Socket, Safetran	1	EA	191.00	$191.00
2	SO CORD 10/3	100	FT	0.90	$90.00
2	BELL, ELECTRONIC GSI		EA	195.00	$0.00
2	DECAL, DOT STRIP		EA	16.00	$0.00
2	Dixie Precast Helical foundation, 7' Long	0	EA	735.00	$0.00
2	Maintainer Platform	1	EA	3,289.00	$3,289.00
3	CABIN 6X6 ALUM HTR	1	EA	8,738.00	$8,738.00
3	EQUIPMENT RACK, 19"x84"	1	EA	200.00	$200.00

3	TAPE DUCT	2	EA	6.06	$12.12
3	TAPE 88 PLASTIC	3	EA	2.99	$8.97
3	HXP-3R W/(2) 8kHz RSI & (1) RMM GE P/N 250811-2B01	1	EA	18,240.00	$18,240.00
3	HXP-3R W/(2) 8kHz RSI, (2) AXD & (1) RMM GE P/N 250811-2021		EA	21,900.00	$0.00
3	HXP-3R2 W/(4) 8kHz RSI & (1) RMM GE P/N 250729-4401		EA	28,195.00	$0.00
3	HXP-3R2 W/(4) 8kHz RSI, (2) AXD & (1) RMM GE P/N 250729-4421		EA	31,029.00	$0.00
3	PTMW 14 RELAY SWING RACK PN 20640	1	EA	220.00	$220.00
3	XLC RELAY BASE KIT GE P/N 251071-100		EA	95.00	$0.00
3	VLG 2 IN-2 OUT 3-12 SEC DELAY GE P/N 250948-020 **LESS BASE**		EA	602.00	$0.00
3	VLG RELAY BASE KIT, GE P/N 251071-012		EA	90.00	$0.00
3	MDSA-1A W/TTA3 ARRESTORS GE P/N 250204-001C	1	EA	296.00	$296.00
3	MDSA-2A W/TTA3 ARRESTORS GE P/N 250675-000		EA	592.00	$0.00
3	TSA-1A W/TTA3 ARRESTORS		EA	134.00	$0.00
3	ARRESTER, CLEARVIEW, AGA-1 GE P/N 202216-001	24	EA	20.00	$480.00
3	ARRESTOR, EQUALIZER, AGE-1 18V GE P/N 202217-000	3	EA	21.00	$63.00
3	SSCC-IIIA, 40 AMP SOLID STATE CONTROLLER, 19" MTG	1	EA	3,907.00	$3,907.00
3	SURGE PANEL W/ BATT ARRESTORS & EQ W /ISOLATED GATE OUTPUT	1	EA	781.00	$781.00
3	TERMINAL, 4 POINT	12	EA	18.99	$227.88
3	GROUND STRAP, 36"	2	EA	30.93	$61.86
3	SURGE PROTECTOR EPD-120	1	EA	350.00	$350.00
3	CIRCUIT BREAKER RELAY PLATE	1	EA	9.78	$9.78
3	CIRCUIT BREAKER, 20 AMP	2	EA	41.21	$82.42
3	TERM, CRIMP TYPE, 10-14 AWG	6	EA	2.00	$12.00
3	TERM, CRIMP TYPE, 16-20 AWG	6	EA	3.00	$18.00
3	RESISTOR, ADJ, 1 OHM, 3.87A		EA	31.69	$0.00
3	RESISTOR, ADJ, 2 OHM	8	EA	174.00	$1,392.00
3	RESISTOR, ADJ, 3 OHM, 2.24A		EA	27.95	$0.00
3	OUT OF SERVICE LIGHT KIT	1	EA	116.40	$116.40
3	POWER OFF LIGHT KIT	1	EA	116.40	$116.40
3	TRANSFORMER, N66A, MAGNETEK 250V	1	EA	72.00	$72.00
3	DIODE, POI		EA	5.57	$0.00
3	TRANSFORMER, 115/230V, 50/60HZ, TRIAD		EA	24.90	$0.00
3	WAGO ASSY, X-FRMR		EA	17.95	$0.00
3	SURGE, LSP W/ARRESTORS AND EQUALIZER	1	EA	1,050.00	$1,050.00
3	TERM BLOCK STRIP DOUBLE ROW GE P/N 250084-100	12	EA	19.00	$228.00
3	TERMINAL BLOCK STRIP, SINGLE ROW GE P/N 250084-112	4	EA	15.00	$60.00
3	TERMINAL BLOCK 2 POS 2 3/8IN. GE P/N 250183-003	4	EA	8.00	$32.00
3	TERMINAL BLOCK, BAKELITE, 2 3/8"	2	EA	5.39	$10.78
3	TEST LINK, INSULATED, FOR 2POS 2 3/8"	2	EA	1.25	$2.50
3	BUSHING SNAP SB-875-11	10	EA	0.05	$0.50

3	BINDING NUT, ACORN 14-24	400	EA	0.18	$72.00
3	CLAMP NUT, HEX CLAMP 14-24 NI	400	EA	0.18	$72.00
3	NUT, INSULATED 1 3/16" GE P/N 013986-000	12	EA	3.00	$36.00
3	WASHER FLAT, 1/4"	600	EA	0.08	$48.00
3	1" CONNECTOR, FLAT, TERM STRAP GE P/N	40	EA	0.40	$16.00
3	12IN.CONNECTOR FLAT, TERM STRAP GE P/N 032248-002	4	EA	9.00	$36.00
3	GOLD TEST14-24 NUT, PLATED OVE	80	EA	1.00	$80.00
3	1IN. TEST LINK FLAT W/PLATE &	80	EA	2.00	$160.00
3	CASE WIRE, 16 AWG, OKONITE, TAMAQUA 391471, BLUE JACKET	750	FT	0.20	$150.00
3	CASE WIRE, 16 AWG, OKONITE		FT	0.20	$0.00
3	CASE WIRE, 10 AWG, BLUE JACKET	500	FT	0.40	$200.00
3	CASE WIRE, 10 AWG, BLUE JACKET		FT	0.40	$0.00
3	WIRE CASE 6AWG THHN GREEN THHN	100	FT	0.49	$49.00
3	WIRE 6AWG BLK	150	FT	0.49	$73.50
3	WIRE 6AWG RED	150	FT	0.49	$73.50
3	SIGNAL WIRE, 10 AWG, 150' REEL		FT	0.27	$0.00
3	TERMINAL RING 1/4 16-22AWG	50	EA	0.24	$12.00
3	TERMINAL RING 1/4 14-16AWG	100	EA	0.23	$23.00
3	TERMINAL RING 1/4 10-12AWG (100 PER PACK)	1	EA	26.88	$26.88
3	TERMINAL RING 1/4 6AWG (100 PER PACK)	1	EA	38.94	$38.94
3	TERMINAL RING 3/8 6AWG		EA	1.48	$0.00
3	TERMINAL RING #10 FOR 6AWG		EA	1.48	$0.00
3	TY-WRAP 11IN	500	EA	0.15	$75.00
3	RECTIFIER ERBC 12/20 W/10' PROBE		EA	530.00	$0.00
3	RECTIFIER ERBC 12/40 W/10' PROBE		EA	685.50	$0.00
3	RECTIFIER ERBC 5/5 W/10' PROBE		EA	260.00	$0.00
3	RECTIFIER NRS 12/20 GREY		EA	452.00	$0.00
3	RECTIFIER NRS 12/40 GREY		EA	604.00	$0.00
3	RECTIFIER CRAGG, 40 AMP	2	EA	590.00	$1,180.00
3	BATTERY, SAFT, NI-CAD, 250AH	19	EA	250.00	$4,750.00
3	BATTERY, GNB, 472AH		EA	642.50	$0.00
3	BATTERY, GNB, 680AH		EA	853.75	$0.00
3	BATTERY EXIDE ELM-340		EA	224.00	$0.00
3	BATTERY EXIDE ELM-500		EA	291.00	$0.00
3	TERMINAL ASSY, BAT. MULTI CON	4	EA	19.00	$76.00
3	TAGS FIELD INSTALLED 12-8	0.5	RL	318.21	$159.11
3	TAGS FIELD INSTALLED 18-12	0.5	RL	278.34	$139.17
3	TAGS FIELD INSTALLED 8-4	0.25	RL	239.43	$59.86
3	Micro Data Analyzer II (MDAII) recorder	1	EA	3,450.00	$3,450.00
3	NAS Current Sensor Module w/ Cable	2	EA	90.00	$180.00

3	MicroLok Object Controller 2001, 6 In/6 Out		EA	2,600.00	0.00
3	Protocol Conversion assy		EA	7,000.00	0.00
3	Spread Spectrum Wayside Radio		EA	2,400.00	$0.00
3	PLUG, TWIST LOCK, 15A, HUBBELL P/N HBL4570C	4	EA	18.66	$74.64
3	RECTIFIER, POWER CORD, 14/4 SJE, BLK	40	FT	0.85	$34.00
3	RELAY, PLUG IN, TYCO ELECTRONICS, KRPA-11AN-240	2	EA	17.58	$35.16
3	RELAY SOCKET FOR KRPA-11AN-240	2	EA	5.16	$10.32
3	WRENCH, TEST NUT	1	EA	48.00	$48.00
3	CONTACT EXTRACTOR TOOL	1	EA	38.00	$38.00
3	WRENCH, TERMINAL	1	EA	57.00	$57.00
3	RELAY, 500 OHM, 6FB, NEUTRAL, A62-262		EA	713.00	$0.00
3	RELAY, PLUGBOARD, B1 W/ 10-14 CRIMP TYPE TERMINALS		EA	203.00	$0.00
3	RELAY SOCKET INSERT		EA	2.00	$0.00
3	BATTERY GROUND DETECTOR	1	EA	1,250.00	$1,250.00
4	RETAINER CLIP WRAP AROUND (50 PKG)	50	EA	1.80	$90.00
4	BONDS, HEAD, 3/16" X 7.5" TAB STYLE (100 PKG)	200	EA	4.00	$800.00
4	BONDS, HEAD, 3/16" XS STYLE (100 PKG)		EA	3.53	$0.00
4	Web bond kit 3/16" x4" x1" tab terminal, 100 bonds,molds,SB25 weld metal	100	EA	4.03	$403.00
4	WELD METAL #25 FOR 3/16 BOND, 50, box		EA	1.46	$0.00
4	GRINDING WHEEL 6IN X 1IN	2	EA	29.50	$59.00
4	TRACK LENGTH DUMMY LOAD, 1000', GETS 227032-003	1	EA	86.00	$86.00
4	PVC CONDUIT 4IN SCH80	300	FT	5.50	$1,650.00
4	PVC COUPLING 4IN SCH 80	30	EA	1.81	$54.30
4	PVC CEMENT, 1QT W/BRUSH TOP	2	EA	7.14	$14.28
4	WIRE TRACK 6AWG PVC INSULATED	80	FT	0.89	$71.20
4	TRACK WIRE 2C 6AWG TWISTED	300	FT	1.96	$588.00
4	CABLE COMPOSITE 12C 14AWG		FT	6.50	$0.00
4	CABLE COMPOSITE 7C 6AWG	300	FT	8.59	$2,577.00
4	CABLE COMPOSITE 7C 9AWG	300	FT	5.54	$1,662.00
4	GROUND ROD 5/8IN X 10FT	6	EA	14.00	$84.00
4	WIRE GROUND 6AWG BARE COPPER	80	FT	1.14	$91.20
4	ONE SHOT 5/8 #6 SOL	6	EA	8.50	$51.00
4	DUCTSEAL PER POUND	20	EA	3.28	$65.60
4	CABLE ARMORED 3C 2AWG & 1 GND		FT	20.48	$0.00
4	BOOTLEG KIT, CROSSING PACKAGE	2	EA	215.00	$430.00
4	BOOTLEG KIT, 2 WIRE		EA	103.00	$0.00
4	BOOTLEG, GE 385-A JUNCTION BOX		EA	178.00	$0.00
4	HOSE, 3/4", MULTI-PURPOSE, OIL	80	FT	0.74	$59.20
4	SHUNT, FSS-1E, 10' LEAD, 211HZ - 525HZ, GETS 250849-004	4	EA	459.90	$1,839.60

4	CASE, SHUNT W/ MTG POST & PVC	2	EA	500.00	$1,000.00
4	TAGS FIELD INSTALLED 18-12	0.5	RL	278.34	$139.17
4	TAGS FIELD INSTALLED 12-8	0.5	RL	318.21	$159.11
4	LOCK, BOLT, SAFETRAN	4	EA	22.08	$88.32
4	PAINT, MARKING, WHITE	2	EA	3.23	$6.46
4	FOAM, INSULATING, SPRAY, 24OZ	3	EA	12.11	$36.33
4	INSULATED JOINT 6 HOLE		EA	280.00	$0.00
4	INSULATED JOINT, BONDED		EA	2,000.00	$0.00
4	#1 SWITCH GAUGE PLATE		EA		$0.00
4	#1 SWITCH ROD INSULATION KIT		EA		$0.00
4	CABLE, 3C #6 WITH 1C #8 BARE	125	EA	7.50	$937.50
4	CABLE, 3C #2 WITH 1C #8 BARE		EA	10.00	$0.00
4	"Quazite" Pull Box	1	EA	700.00	$700.00
4	SIGN, MUTCD, EMERGENCY NOTIFICATION, 15"x9"	2	EA	37.50	$75.00
4	SIGN, MUTCD, EMERGENCY NOTIFICATION, 30"x18"	1	EA	75.00	$75.00
4	Antenna, uni-directional, yagi		EA	200.00	$0.00
4	Antenna, weather shield		EA	350.00	$0.00
4	Cable, Heliax		FT	5.00	$0.00
4	Cable, Heliax, 3'		EA	25.00	$0.00
4	Heliax connectors		EA	200.00	$0.00
4	Poly-phaser		EA	75.00	$0.00
4	Tower, Tilt-down		EA	1,672.00	$0.00
4	Foundation, Tower, Tilt-down		EA	1,380.00	$0.00
4	Detector, Shelf mount (8 vital outputs)		EA	3,415.00	$0.00
4	Harness, U-1400, 8 foot w/ sleeving		EA	813.00	$0.00
4	Faraday Terminal Box, 15"X24"		EA	490.00	$0.00
4	Foundation, Galv., for Faraday Terminal Box, Pair		EA	74.00	$0.00
4	Wire, 18 AWG, 4 Conductor, .365" OD, Dbl jacket (2500' spool)		FT	0.89	$0.00
4	Wire, 18 AWG, 4 Conductor, .75" OD, Red (2500' spool)		FT	2.96	$0.00
4	Glass reinforced polyester enclosure		EA	80.53	$0.00
4	Cable gland		EA	12.66	$0.00
4	Locknut		EA	1.60	$0.00
4	Entry thread seal		EA	0.73	$0.00
4	Serrated washer		EA	7.53	$0.00
4	Plug, 32mm, Nylon		EA	10.55	$0.00
4	Butt splice connector (for use in loop junction box), 100 per package		PKG	18.52	$0.00
4	Tape, 3M Mastic		EA	12.35	$0.00
4	Bracket, corner support, .75 dia. Wire (for RR-418)		EA	5.75	$0.00
5	Foundation, gate, galvanized steel, 60", Fabricated Metal Corp.	2	EA	495.00	$990.00
5	Berm Wall, Galv. Steel, 60" wide, 72" high, with handrail	30	FT	210.00	$6,300.00

5	Berm Wall, Galv. Steel, 60" wide, 72" high, without handrail	40	FT	190.00	$7,600.00
5	Berm Wall, Galv. Steel, 60" wide, 48" high, with handrail	15	FT	140.00	$2,100.00
5	Berm Wall, Galv. Steel, 60" wide, 48" high, without handrail	15	FT	115.00	$1,725.00
5	Berm Wall, Galv. Steel, 60" wide, 24" high, without handrail		FT	93.00	$0.00
5	Berm Wall, Galv. Steel, 60" wide, 24" high, without handrail		FT	73.00	$0.00
	MATERIAL TOTAL				**$111,628.95**

DWG. NO.	DESCRIPTION
00	INDEX
01	SITE LAYOUT
02	CROSSING CONTROL CIRCUITS
03	HXP PROGRAM INFORMATION
04	RECORDER
05	BGD
06	SSCC 11A
07	1LSP
08	CTP
09	GATE #1 MECHANISM (NEAR SIDE)
10	GATE #1 LIGHTS (NEAR SIDE)
11	GATE #2 MECHANISM (FAR SIDE)
12	GATE #2 LIGHTS (FAR SIDE)
13	BATTERY CHARGER
14	AC POWER DISTRIBUTION
15	RACK FRONT VIEW
16	RACK BACK VIEW
17	SIDE "A"
18	SIDE "C"

FOR REVIEW

REV.	GENERAL NOTES

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.

REVISION BLOCK

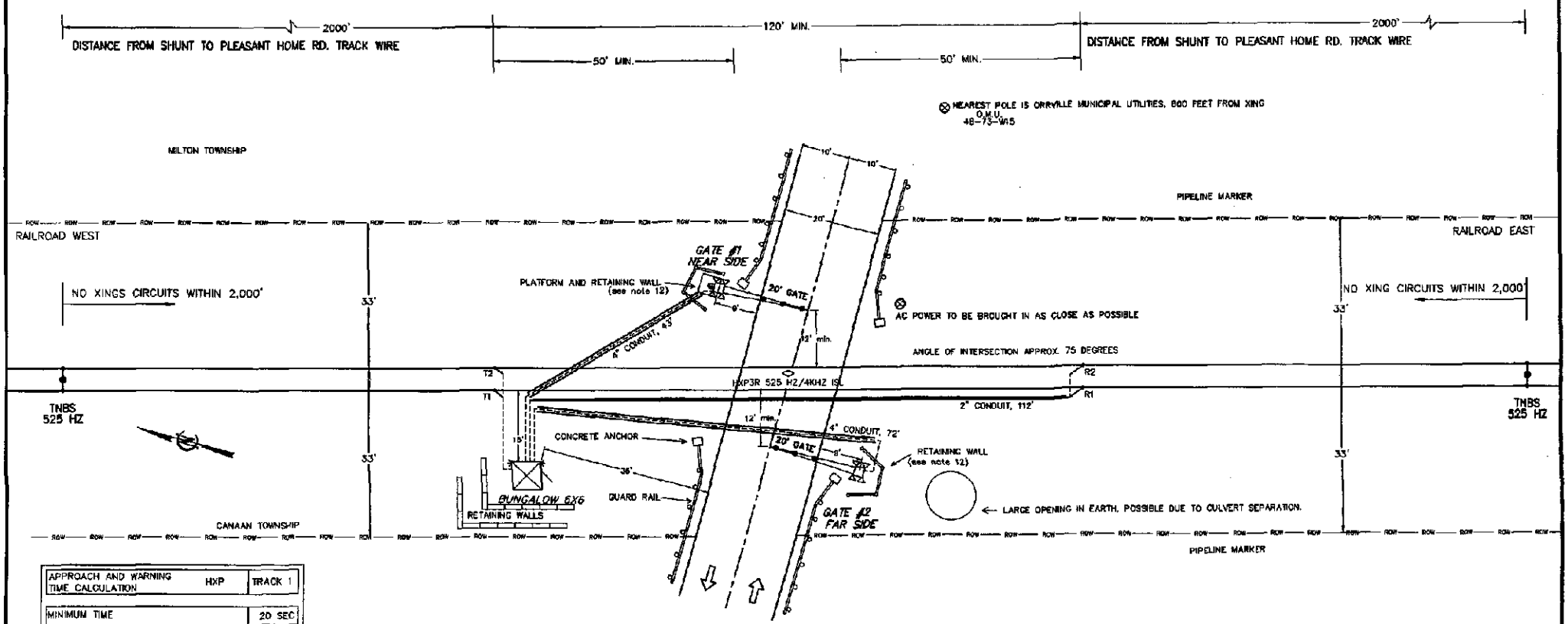
CHANGE FROM TYPICAL N

W&LE

Wheeling & Lake Erie Railway

LOCATION: PLEASANT HOME RD., COUNTY RD. 48, WAYNE COUNTY, OHIO

ORIGINAL DATE 09/15/2010	TITLE INDEX		
DESIGNER CTC	SUB BREWSTER	CTC NO. CT10100	
DRAFTSMAN CTC	RWP B - 113.7	SCALE N.T.S.	
CHECKED CTC	DOT NO. 473-528U	SHEET 00 OF 18	



APPROACH AND WARNING TIME CALCULATION HXP	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 PREEMPT TIME	NA SEC
TOTAL APPROACH TIME (TAT)	30 SEC
MAXIMUM TRAIN SPEED	40 MPH
TIMES RATION OF FT/SEC TO MPH	1.4667
TOTAL (MINIMUM) APPROACH DISTANCE	1760 FT

APPROACH LENGTH INSTALLED TO 2,000 FT.
THIS MEETS/EXCEEDS REQUIRED MINIMUM.
PREDICTOR SET FOR 25 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

REVISION BLOCK

W&LE

Wheeling & Lake Erie Railway

LOCATION
PLEASANT HOME RD., COUNTY RD. 48
WAYNE COUNTY, OHIO

ORIGINAL DATE 08/15/2010	TITLE SITE LAYOUT		
DESIGNER CTC	SUB BREWSTER	CTC NO. CT10100	
DRAFTSMAN CTC	MRP B - 113.7	SCALE 1"=20'	
CHECKED CTC	DOT NO 473-528U	SHEET 01 OF 18	

CONSTRUCTION NOTES

1.) NEAREST ADDRESS TO THE EAST OF CROSSING IS 5375 PLEASANT HOME RD AND TO THE WEST OF CROSSING IS 4938 PLEASANT HOME RD.

2.) NEAREST ELECTRIC POLE IS APPROX. 600±; PROVIDER OF SERVICE IS ORRVILLE MUNICIPAL UTILITIES, 48-73-W15

3.) CULVERTS UNDER ROADWAY ARE DEEPER THAN 6 FEET WHERE THE GATES ARE TO BE LOCATED.

4.) CULVERT IN SOUTH WEST QUADRANT HAS SEPARATED AND A LARGE HOLE MAY INTERFERE WITH CONSTRUCTION.

5.) GATE ASSEMBLIES WILL NEED RETAINING WALLS TO PREVENT FILLING IN DITCH LINES AND CULVERT OPENINGS.

7.) TRACKS ARE ELEVATED FROM SURROUNDING FIELDS.

8.) BUNGALOW SHOULD BE PLACED AS FAR FROM NEAR RAIL AS POSSIBLE, TAKING INTO ACCOUNT SLOPE OF LAND AND RIGHT OF WAY WIDTH.

9.) GUARD RAILS AND CONCRETE ANCHORS WILL NEED TO BE AVOIDED WHEN PLACING GATE FOUNDATIONS IN PLACE.

10.) BEST GUESS FOR ADDRESS OF XING IS 5300 PLEASANT HOME RD.

11.) GATE FOUNDATIONS WILL REQUIRE A RETAINING WALL DUE TO DROP OFF.

12.) GATE FOUNDATIONS MUST INCLUDE PLATFORMS FOR SIGNALMAN TO WORK OFF OF.

13.) BUNGALOW WILL REQUIRE A RETAINING WALL TO SUPPORT STRUCTURE.

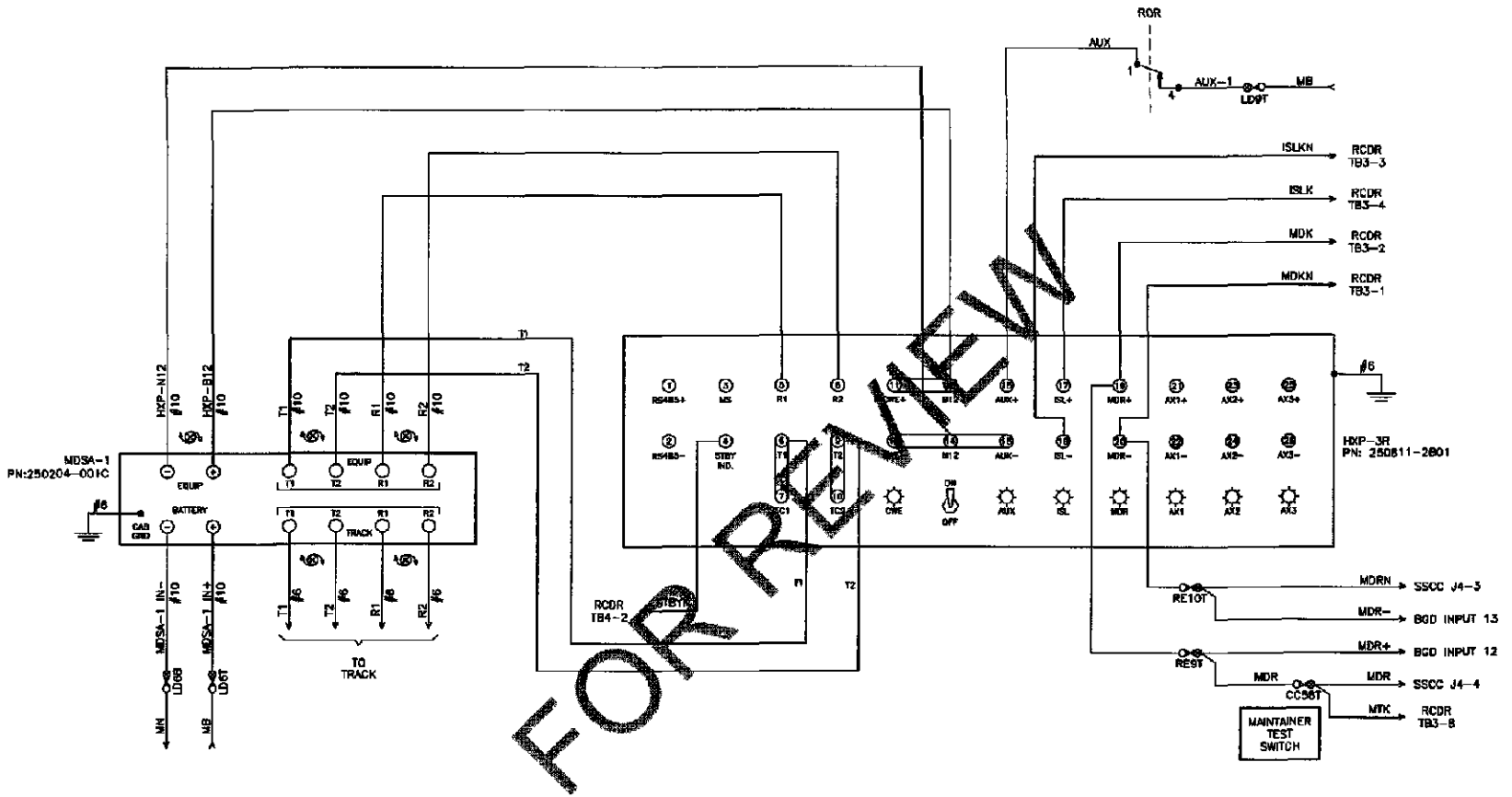
REVISION BLOCK										

W&LE

Wheeling & Lake Erie Railway

LOCATION: PLEASANT HOME RD., COUNTY RD. 48
WAYNE COUNTY, OHIO

ORIGINAL DATE	09/15/2010	TITLE	SITE LAYOUT NOTES		
DESIGNER	CTC	SUB	BREWSTER	CTC NO.	CT10100
DRAFTSMAN	CTC	FIELD	B - 113.7	SCALE	N.T.S.
CHECKER	CTC	DOT NO	473-528U	SHEET	01A of 18



FOR REVIEW

NOTE: ALL WIRING THIS SHEET #14 AWG UNLESS NOTED OTHERWISE.

CHANGE FROM TYPICAL H

W&LE

Wheeling & Lake Erie Railway

LOCATION: PLEASANT HOME RD., COUNTY RD. 48, WAYNE COUNTY, OHIO

ORIGINAL DATE 09/15/2010	TITLE CROSSING CONTROL CIRCUITS		
DESIGNED CTC	SUB BREWSTER	DRAWING NO. CT1D1D0	
DRAWN CTC	MILEPOST 8 - 113.7	SCALE N.T.S.	
CHECKED CTC	JOB NO. 473-526U	SHEET 02 OF 16	

REVISION BLOCK

PROGRAM
INFORMATION

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

HXP-3R ADJUSTMENTS

NO.	ADJUSTMENT NAME	TRACK 1	TRACK 2
1	APP. LENGTH	2000'	
2	WARNING TIME	25 SEC	
3	LA	*	
4	TC	*	
5	MD RESTART	0	

OPTION ADJUSTMENTS

NO.	ABBREVIATION	TRACK 1	TRACK 2
1	TK-ENA	UP	
2	TK FD	525 HZ	
3	CW/MD	C	
4	UNI-BI	b (BI)	
5	NBS-C	*	
6	CWEWT	DL (60 SEC.)	
7	LOS	DL (16 SEC.)	
8	IJ-LOS	DL (5 SEC.)	
9	BC	133 *	
10	P-COMP	*	
11	AX1	N/A	
12	AX2	N/A	
13	AX3	N/A	
17	MDR-AX	"dn"	
	OF-TK 1 OR 2	DL (0)	
	CJ-LOS	DL (0)	
	PJ-DET	DL (15)	
	PJ-RX	DL (15)	
18	MD-TMR	DL (10)	
19	MIN-WT	DL (0)	
20	FS-DET	"dn"	
	FS-RX	DL (0)	
	FS-TM	DL (10)	
21	POS-ST	"dn"	
	POS-RX	DL (0)	
	POS-TM	DL (0)	
22	AR-TMR	"dn"	
	AR-RX	DL (0)	
	AR-TM	DL (10)	
47	ATO-RX	UP	
48	PF-ENA	"dn"	

AX ADJUSTMENTS

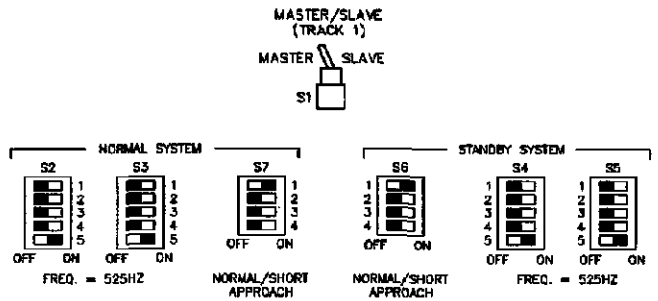
NO.	ABBREVIATION	AX 1	AX 2	AX 3
1	TK-ASN			
2	OF-TK1			
3	OF-TK2			
4	WT			
5	MD-RST			
6	CW/MD			
7	CJ-LOS			
8	PJ-DET			
9	PJ-RX			
10	POS-ST			

SWITCH INFORMATION

SWITCH	TRACK 1	TRACK 2
MASTER/SLAVE	MASTER	
RSI FAULT JUMPER	0	
RSI-LOS JUMPER	1	
TLM W1 JUMPER	PINS 1-2	
TLM W2 JUMPER	PINS 1-2	
TLM W3 JUMPER	PINS 2-3	
MINUTE TIMEOUT	5 MIN	
CW/MD	CW	
STANDBY/AUTO/NORMAL	AUTO	

NOTE: DL=DEFAULT LEVEL
NA= NON APPLICABLE

FOR REVIEW



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.

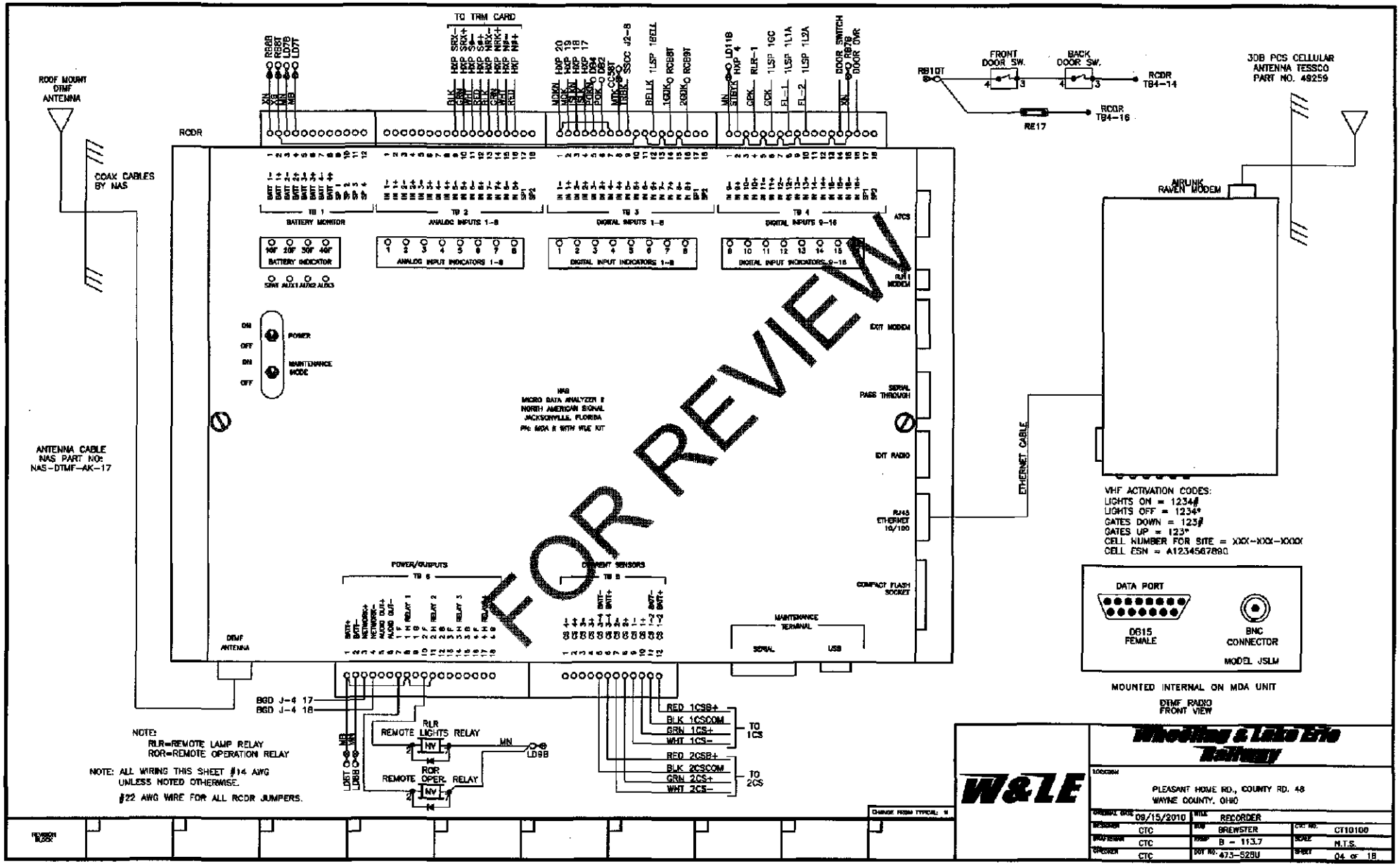
REVISION BLOCK

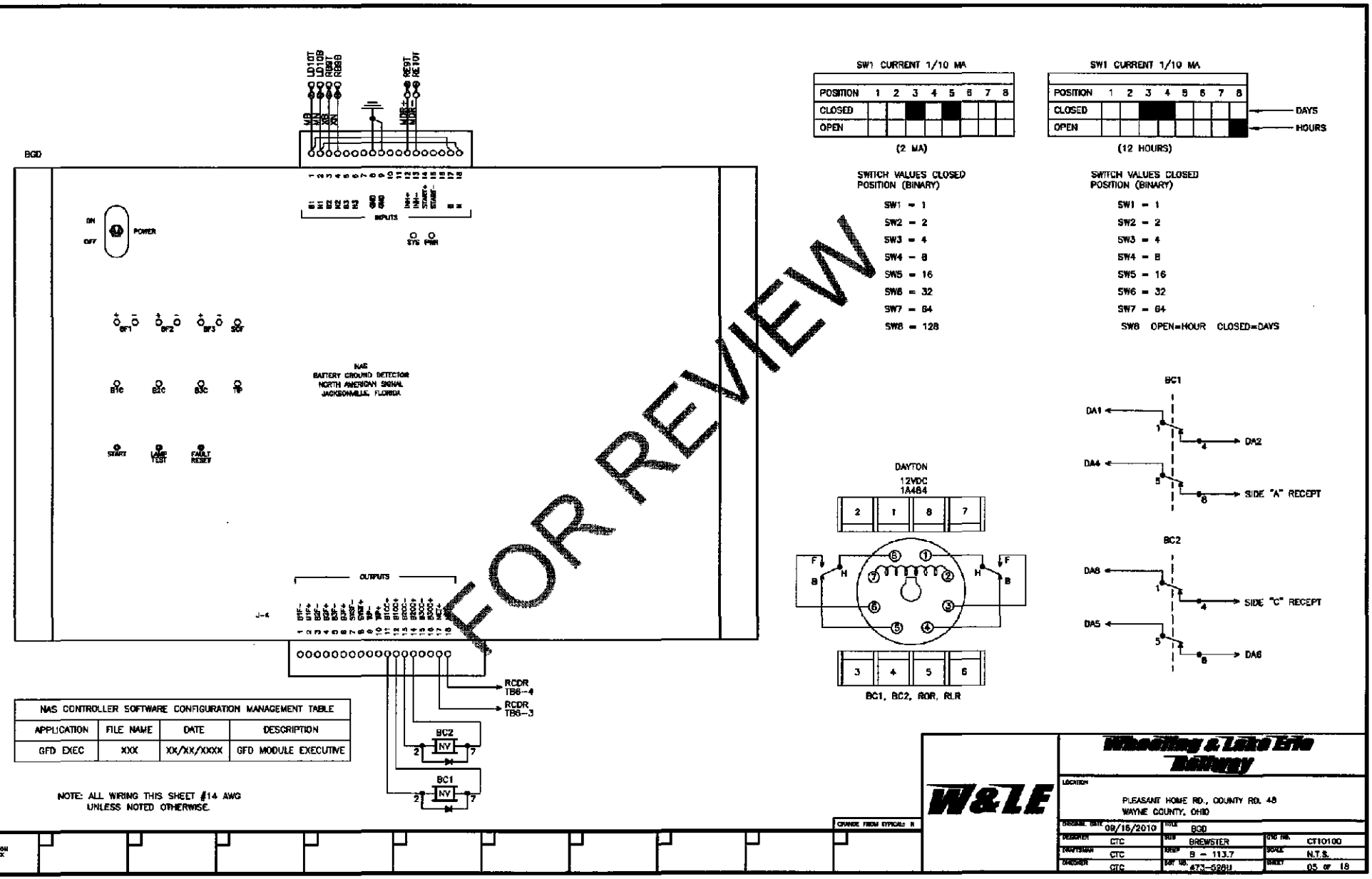
W&LE

Wheeling & Lake Erie Railway

LOCATION: PLEASANT HOME RD., COUNTY RD. 48
WAYNE COUNTY, OHIO

ORIGINAL DATE 09/15/2010	TITLE HXP PROGRAM INFORMATION		
DESIGNER CTC	DRAWN BREWSTER	DRC NO. CT10100	
DRAFTSMAN CTC	MAP B - 113.7	SCALE N.T.S.	
CHECKED CTC	DOT NO. 473-528U	SHEET 03 of 18	


ROOF MOUNT DTMF ANTENNA
COAX CABLES BY NAS
ANTENNA CABLE NAS PART NO: NAS-DTMF-AK-17
RCOR
TO TRM CARD
TB 1 BATTERY MONITOR
TB 2 ANALOG INPUTS 1-8
TB 3 DIGITAL INPUTS 1-8
TB 4 DIGITAL INPUTS 9-16
BATTERY INDICATOR
ANALOG INPUT INDICATORS 1-8
DIGITAL INPUT INDICATORS 1-8
DIGITAL INPUT INDICATORS 9-16
POWER
MAINTENANCE MODE
HAB
MICRO DATA ANALYZER II
NORTH AMERICAN SIGNAL
JACKSONVILLE, FLORIDA
ATCS
OUT MODEM
EXT MODEM
SERIAL PASS THROUGH
EXT RADIO
RJ45 ETHERNET 10/100
COMPACT FLASH SOCKET
POWER/OUTPUTS TB 6
CURRENT SENSORS TB 5
MAINTENANCE TERMINAL
SERIAL
USB
DTMF ANTENNA
FRONT DOOR SW.
BACK DOOR SW.
RB10T
RCOR TB4-14
RCOR TB4-16
RE17
DOOR SWITCH TB TB7B
DOOR OVR
30B PCS CELLULAR ANTENNA TESSCO PART NO. 49259
AIRLINK RAVEN MODEM
ETHERNET CABLE
VHF ACTIVATION CODES:
LIGHTS ON = 1234#
LIGHTS OFF = 1234*
GATES DOWN = 123#
GATES UP = 123*
CELL NUMBER FOR SITE = XXX-XXX-XXXX
CELL ESN = A1234567890
DATA PORT
DB15 FEMALE
BNC CONNECTOR
MODEL JSLM
MOUNTED INTERNAL ON MDA UNIT
DTMF RADIO FRONT VIEW
BGD J-4 17
BGD J-4 18
REMOTE LIGHTS RELAY
RLR
ROR
REMOTE OPER. RELAY
RED 1CSB+
BLK 1CSCOM
GRN 1CS+
WHT 1CS-
RED 2CSB+
BLK 2CSCOM
GRN 2CS+
WHT 2CS-
TO 1CS
TO 2CS
NOTE:
RLR=REMOTE LAMP RELAY
ROR=REMOTE OPERATION RELAY
NOTE: ALL WIRING THIS SHEET #14 AWG UNLESS NOTED OTHERWISE.
#22 AWG WIRE FOR ALL RCOR JUMPERS.
FOR REVIEW
W&LE
Wheeling & Lake Erie Railway
PLEASANT HOME RD., COUNTY RD. 48
WAYNE COUNTY, OHIO
09/15/2010
RECORDER
CTC
BREWSTER
CT10100
CTC
B - 113.7
N.T.S.
CTC
473-5250
04 of 18



FOR REVIEW

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

NOTE: ALL WIRING THIS SHEET #14 AWG UNLESS NOTED OTHERWISE.

REVISION BLOCK

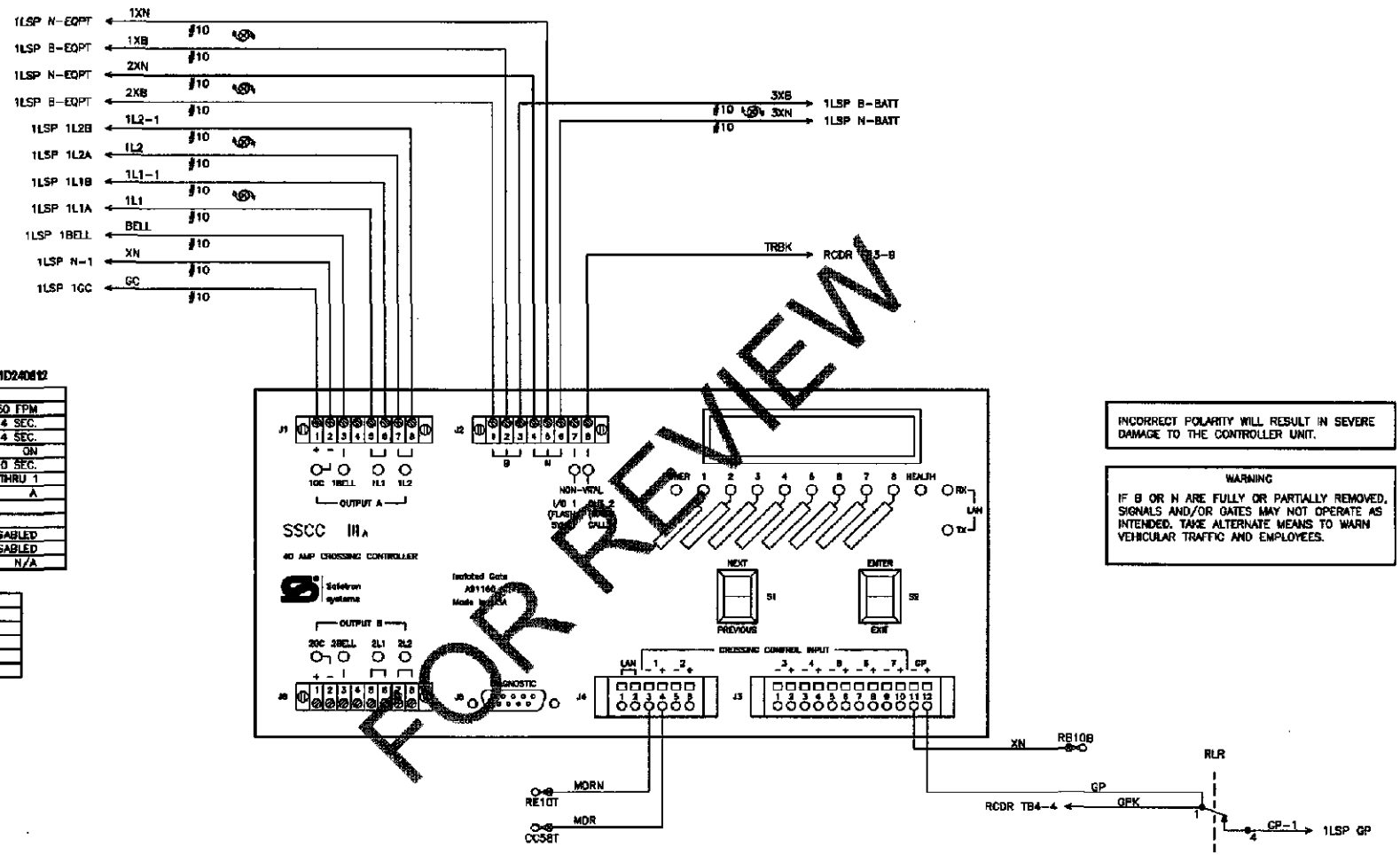
CHANGE FROM TYPICAL N

W&LE

Wheeling & Lake Erie Railway

LOCATION
PLEASANT HOME RD., COUNTY RD. 48
WAYNE COUNTY, OHIO

ORIGINAL DATE 09/15/2010	TITLE BGD		
DESIGNER CTC	SUB BREWSTER	DWG NO. CT101100	
DRAFTSMAN CTC	MAP B - 113.7	SCALE N.T.S.	
CHECKER CTC	EAT NO. 473-526U	SHEET 05 OF 18	



FOR REVIEW

MCF=Basic MCF Revision F CRC=1D240812

PROGRAM	
FLASHER RATE:	50 FPM
GATE DELAY 1 TIMER:	4 SEC.
GATE DELAY 2 TIMER:	4 SEC.
BELL-ON GATE RISING	ON
MIN ACTIVATION TIMER:	0 SEC.
ENABLE INPUTS	1 THRU 1
PRG ENABLED OUTPUTS: A&B	A
TIME	
DATE	
DAYLIGHT SAVINGS	DISABLED
PASSWORD	DISABLED
SET TO DEFAULT	N/A

CONFIGURE	
INPUT xLOS	0
AICS ADDRESS	700000000000
LOW BATTERY	DISABLED
AUX I/O	INV OUTPUT
DETECT LAMP NEUTRAL WIRE:	NO

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.

NOTE: ALL WIRING THIS SHEET #14 AWG UNLESS NOTED OTHERWISE.

CHANGE FROM TYPICAL: N

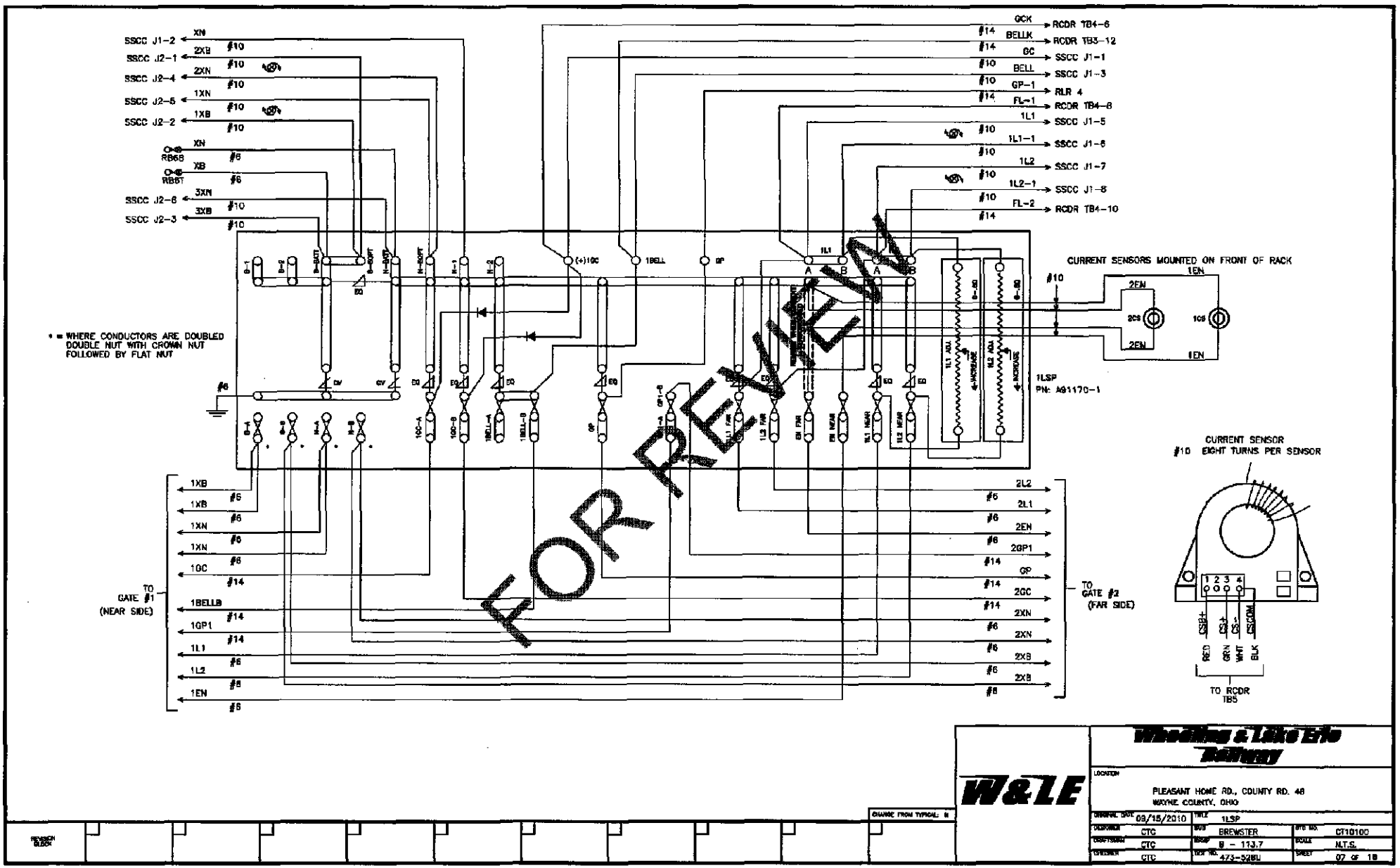
REVISION BLOCK

W&LE

Wheeling & Lake Erie Railway

LOCATION
PLEASANT HOME RD., COUNTY RD. 48
WAYNE COUNTY, OHIO

ORIGINAL DATE 08/15/2018	TITLE SSCC IIIA		
DESIGNER CTC	SUB BREWSTER	CTC NO.	CT10100
DRAFTSMAN CTC	RANGE B - 113.7	SCALE	N.T.S.
CHECKED CTC	DGN NO. 473-528U	SHEET	05 of 18



CHANGE FROM TYPICAL: N

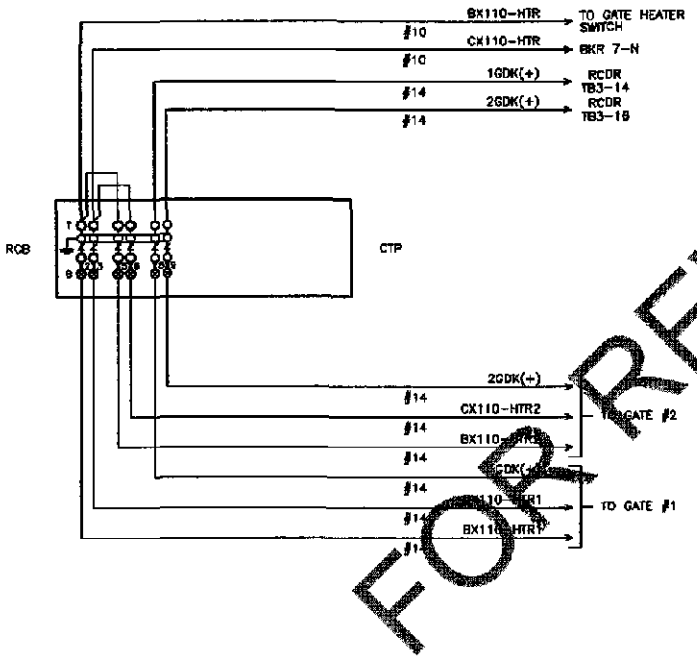
W&LE

Wheeling & Lake Erie Railway

LOCATION: PLEASANT HOME RD., COUNTY RD. 48, WAYNE COUNTY, OHIO

ORIGINAL DATE 09/15/2010	TITLE 1LSP		
DESIGNED CTC	SUB BREWSTER	SYS NO. CT10100	
DRAFTSMAN CTC	SHOP B - 113.7	SCALE N.T.S.	
CHECKED CTC	WO NO. 473-528U	SHEET 07 OF 18	

REVISION BLOCK



FOR REVIEW

REVISION BLOCK										

W&LE

Wheeling & Lake Erie Railway

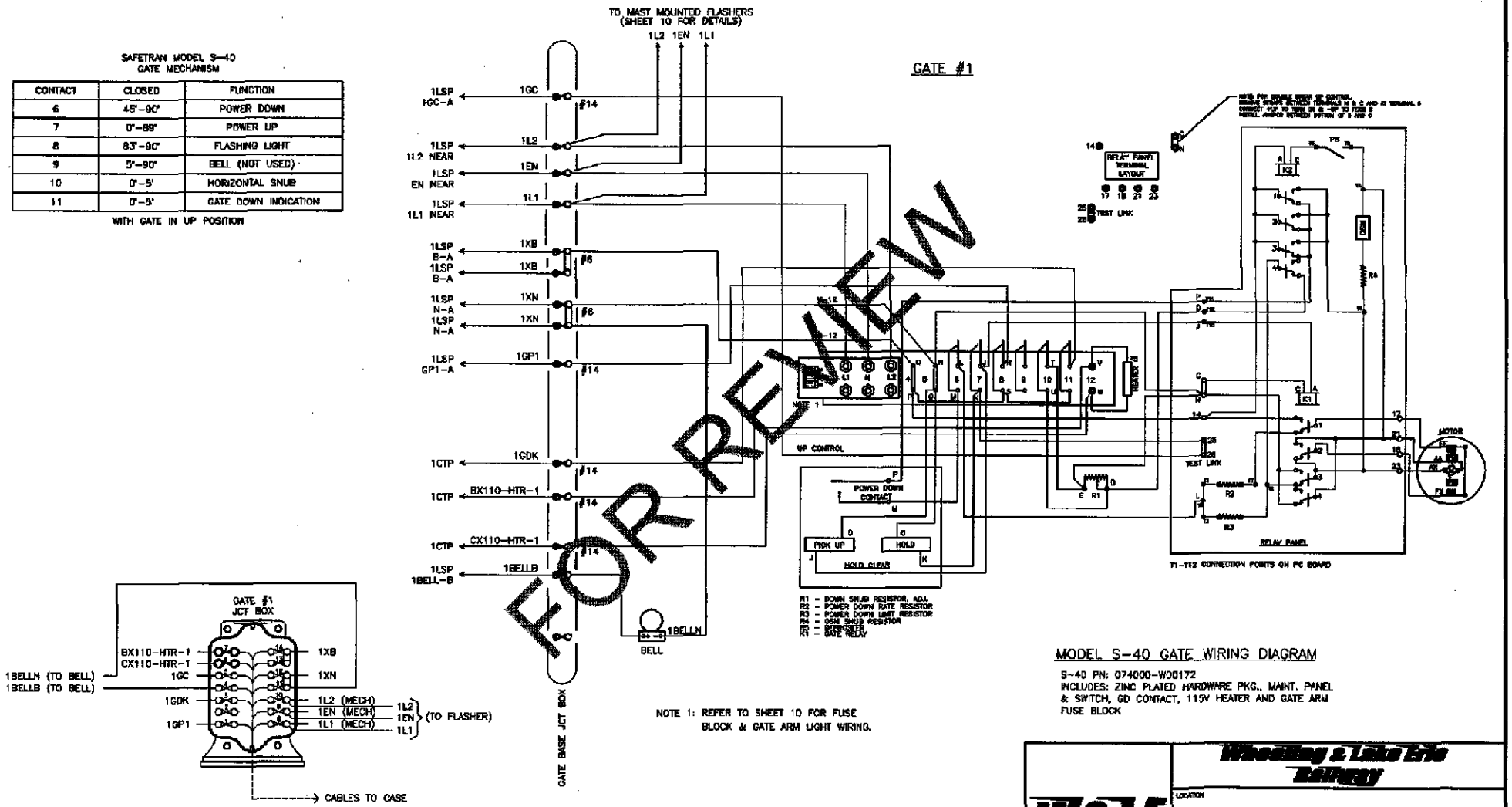
LOCATION
PLEASANT HOME RD., COUNTY RD. 48
WAYNE COUNTY, OHIO

ORIGINAL DATE	09/15/2010	TITLE	CTP		
DESIGNER	CTC	SUB	BREWSTER	CTC NO.	CT10100
DRAFTSMAN	CTC	MILEP	B - 113.7	SCALE	N.T.S.
CHECKER	CTC	DOT NO.	473-528U	SHEET	08 OF 18

SAFETRAN MODEL S-40
GATE MECHANISM

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



FOR REVIEW

MODEL S-40 GATE WIRING DIAGRAM

S-40 PN: 074000-W00172
INCLUDES: ZINC PLATED HARDWARE PKG., MAINT. PANEL & SWITCH, GD CONTACT, 115V HEATER AND GATE ARM FUSE BLOCK

CHANGE FROM TYPICAL #

REVISION BLOCK

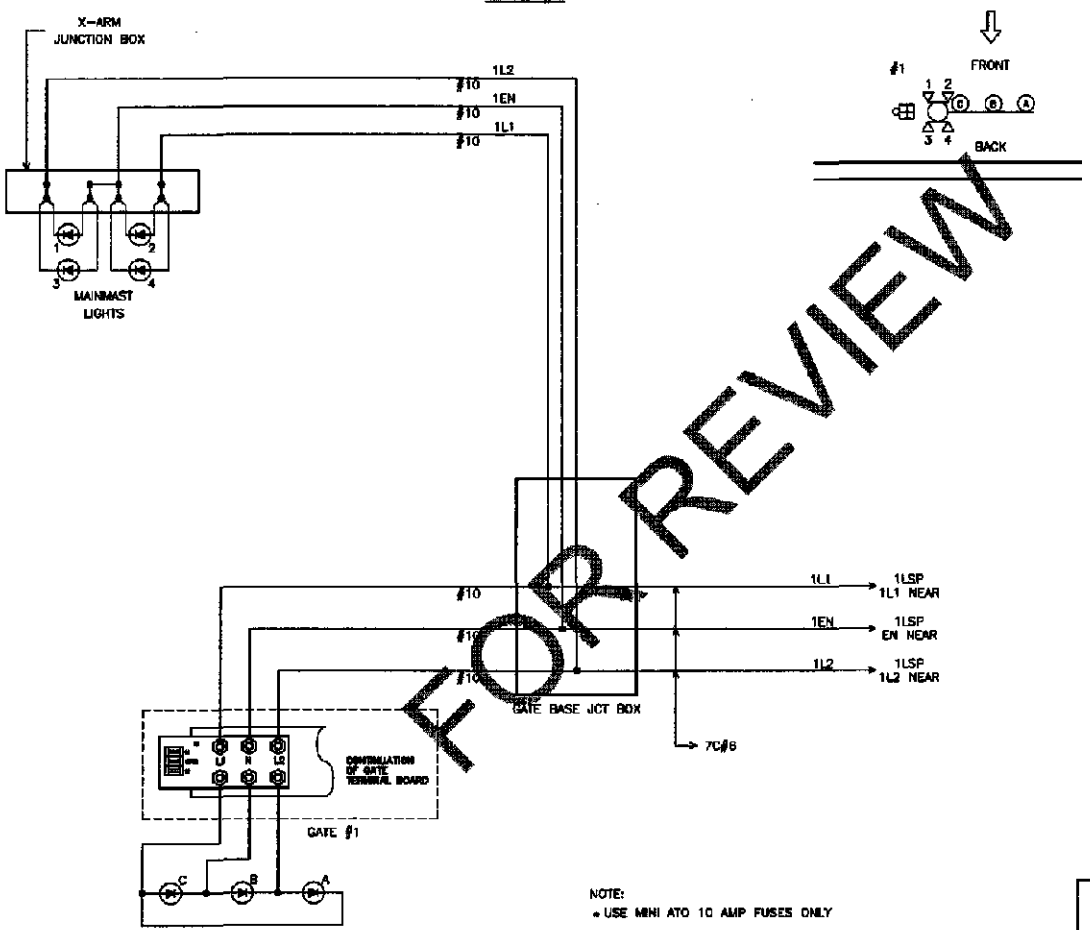
W&LE

Wheeling & Lake Erie Railway

LOCATION
PLEASANT HOME RD., COUNTY RD. 48
WAYNE COUNTY, OHIO

ORIGINAL DATE 09/15/2010	TITLE GATE #1 MECHANISM (NEAR SIDE)		
DESIGN CTC	DRAWN BREWSTER	CTC NO. CT10100	
DRAWN CTC	MAP B - 113.7	SCALE N.T.S.	
CHECKED CTC	SOT NO. 473-528U	SHEET 09 OF 18	

GATE #1



FOR REVIEW

NOTE:
* USE MINI ATO 10 AMP FUSES ONLY

CHANGE FROM TYPICAL: Y

REVISION BLOCK

W&LE

Wheeling & Lake Erie Railway

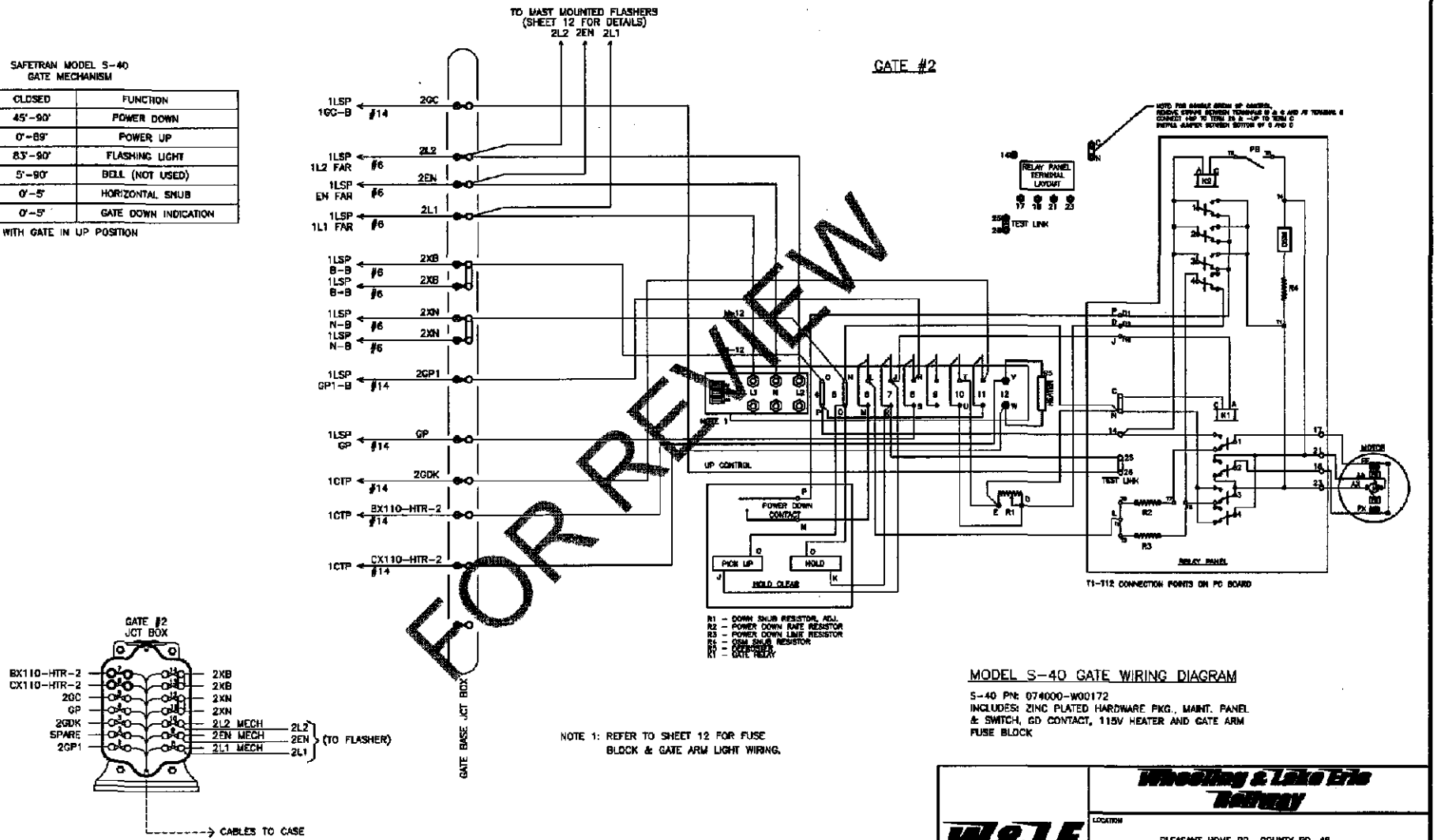
LOCATION
PLEASANT HOME RD., COUNTY RD. 46
WAYNE COUNTY, OHIO

ORIGINAL DATE 09/15/2010	TITLE GATE #1 LIGHTS (NEAR SIDE)		
DESIGNER CTC	SUB BREWSTER	DWG NO. CT10100	
DRAFTSMAN CTC	MILEP B - 113.7	SCALE N.T.S.	
CHECKED CTC	DOT NO. 473-528U	SHEET 10 OF 18	

SAFETRAN MODEL S-40
GATE MECHANISM

CONTACT	CLOSED	FUNCTION
6	45'-90'	POWER DOWN
7	0'-89'	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



FOR REVIEW

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

MODEL S-40 GATE WIRING DIAGRAM

S-40 PN: 074000-W00172
INCLUDES: ZINC PLATED HARDWARE PKG., MAINT. PANEL & SWITCH, GD CONTACT, 115V HEATER AND GATE ARM FUSE BLOCK

CHANGE FROM TYPICAL M

REVISION BLOCK

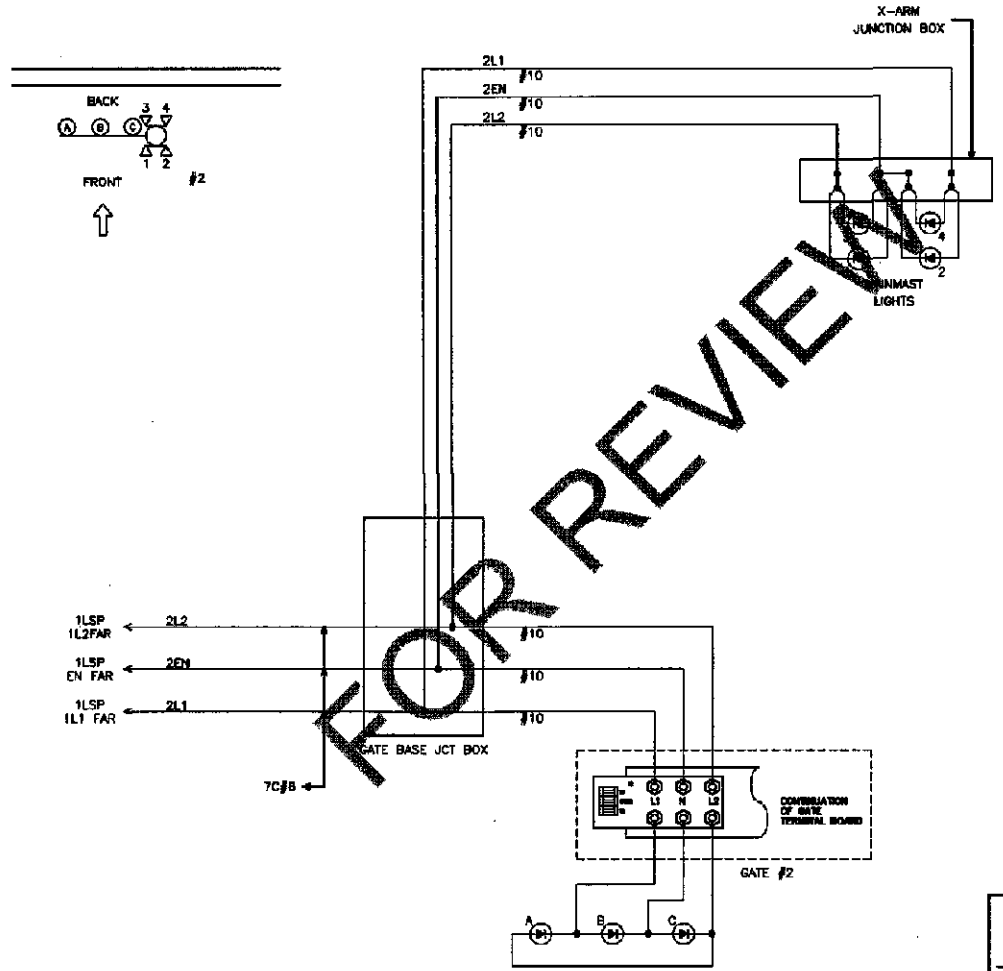
W&LE

Wheeling & Lake Erie Railway

LOCATION
PLEASANT HOME RD., COUNTY RD. 48
WAYNE COUNTY, OHIO

ORIGINAL DATE 09/15/2010	TITLE GATE #2 MECHANISM (FAR SIDE)		
DESIGNER CTC	SUB BREWSTER	CTC NO. CT10100	
DRAFTSMAN CTC	MILEP B - 113.7	SCALE N.T.S.	
CHECKED CTC	DOT NO. 473-328U	SHEET 11 OF 18	

GATE #2



FOR REVIEW

NOTE:
- USE MINI ATO 10 AMP FUSES ONLY

REVISION BLOCK										

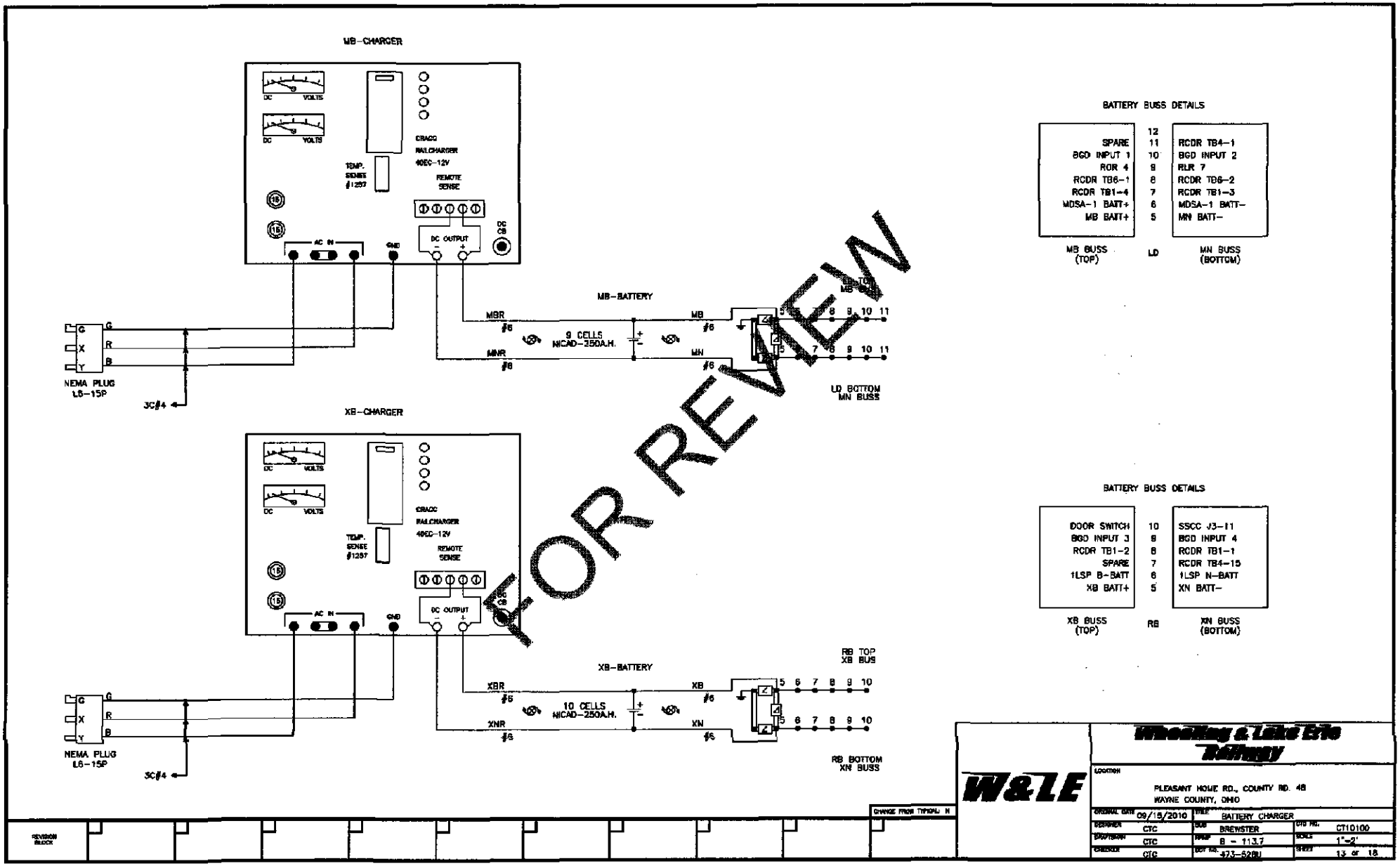
CHANGE FROM TYPICAL: Y

W&LE

Wheeling & Lake Erie Railway

LOCATION
PLEASANT HOME RD., COUNTY RD. 48
WAYNE COUNTY, OHIO

ORIGINAL DATE 09/15/2010	TITLE GATE #2 LIGHTS (FAR SIDE)		
DESIGNER CTC	SUB BREWSTER	DRG NO. CT10100	
DRAFTSMAN CTC	MAP 9 - 113.7	SCALE N.T.S.	
CHECKER CTC	DOT NO. 473-528U	SHEET 12 of 18	



FOR REVIEW

CHANGE FROM TYPICAL N

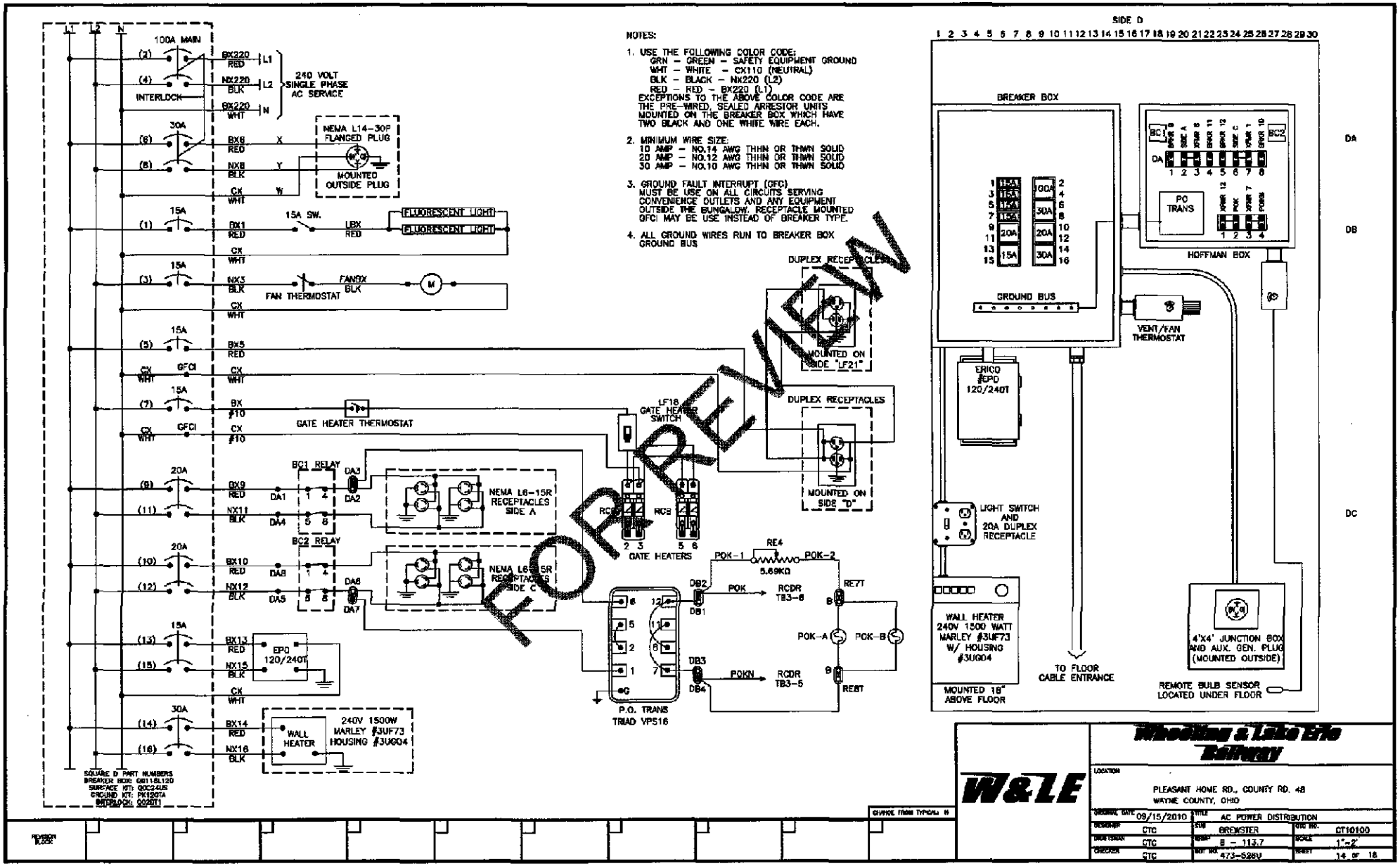
REVISION BLOCK

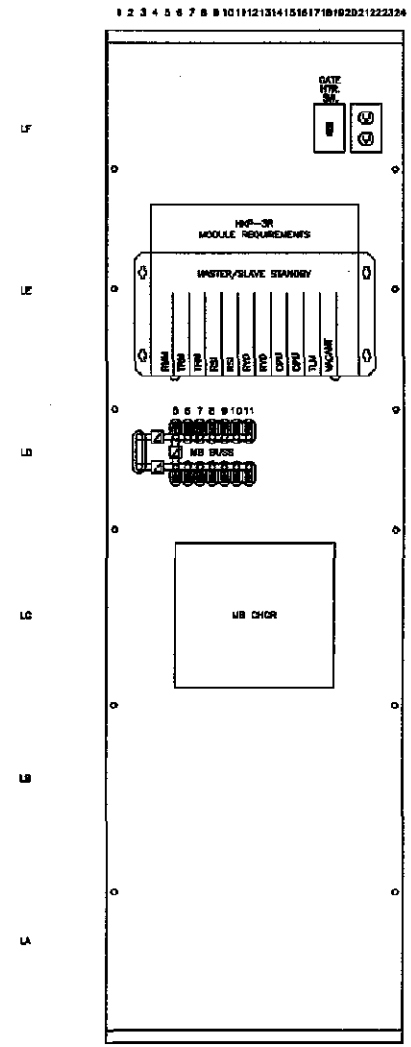
W&LE

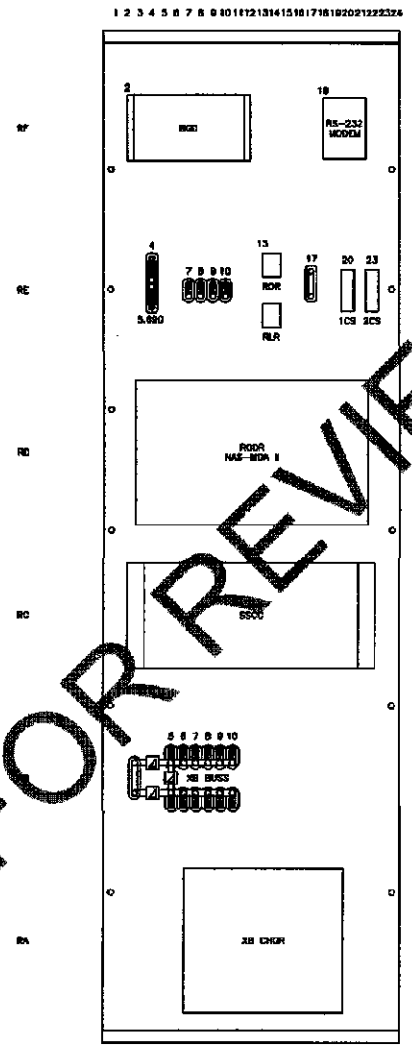
Wheeling & Lake Erie Railway

LOCATION
PLEASANT HOME RD., COUNTY RD. 48
WAYNE COUNTY, OHIO

ORIGINAL DATE 09/15/2010	TITLE BATTERY CHARGER		
DESIGNER CTC	SUB BREWSTER	DWG NO. CT10100	
DRAFTSMAN CTC	MAP B - 113.7	SCALE 1"=2'	
CHECKED CTC	DEF NO. 473-529U	SHEET 13 OF 18	


NOTES:
1. 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.
2. 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
3. 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.
4. ALL GROUND WIRES RUN TO BREAKER BOX GROUND BUS
100A MAIN
240 VOLT SINGLE PHASE AC SERVICE
INTERLOCK
NEMA L14-30P FLANGED PLUG
MOUNTED OUTSIDE PLUG
15A SW.
FLUORESCENT LIGHT
FAN THERMOSTAT
GATE HEATER THERMOSTAT
BC1 RELAY
BC2 RELAY
NEMA L6-15R RECEPTACLES SIDE A
NEMA L6-15R RECEPTACLES SIDE C
EPO 120/240T
WALL HEATER
240V 1500W MARLEY #3UF73 HOUSING #3UG04
SQUARE D PART NUMBERS
BREAKER BOX: QB115L125
SURFACE KIT: QOC24US
GROUND KIT: PK125GTA
INTERLOCK: QO20T1
DUPLEX RECEPTACLES
MOUNTED ON SIDE "LF21"
LF18 GATE HEATER SWITCH
GATE HEATERS
MOUNTED ON SIDE "D"
RE4
5.69KΩ
POK
RCDR TB3-6
POK-A
POK-B
POKN
RCDR TB3-5
RE7T
RE8T
P.O. TRANS TRIAD VPS16
SIDE D
BREAKER BOX
GROUND BUS
HOFFMAN BOX
PO TRANS
VENT/FAN THERMOSTAT
ERICO #EPO 120/240T
LIGHT SWITCH AND 20A DUPLEX RECEPTACLE
WALL HEATER 240V 1500 WATT MARLEY #3UF73 W/ HOUSING #3UG04
MOUNTED 18" ABOVE FLOOR
TO FLOOR CABLE ENTRANCE
4"x4" JUNCTION BOX AND AUX. GEN. PLUG (MOUNTED OUTSIDE)
REMOTE BULB SENSOR LOCATED UNDER FLOOR
FOR REVIEW
W&LE
Wheeling & Lake Erie Railway
PLEASANT HOME RD., COUNTY RD. 48
WAYNE COUNTY, OHIO
09/15/2010
AC POWER DISTRIBUTION
CTC
BROOKSTER
CT10100
B – 113.7
1"=2'
473-528V
14 OF 18





SIDE 'B' FRONT

FOR REVIEW

CHANGE FROM TYPICAL #

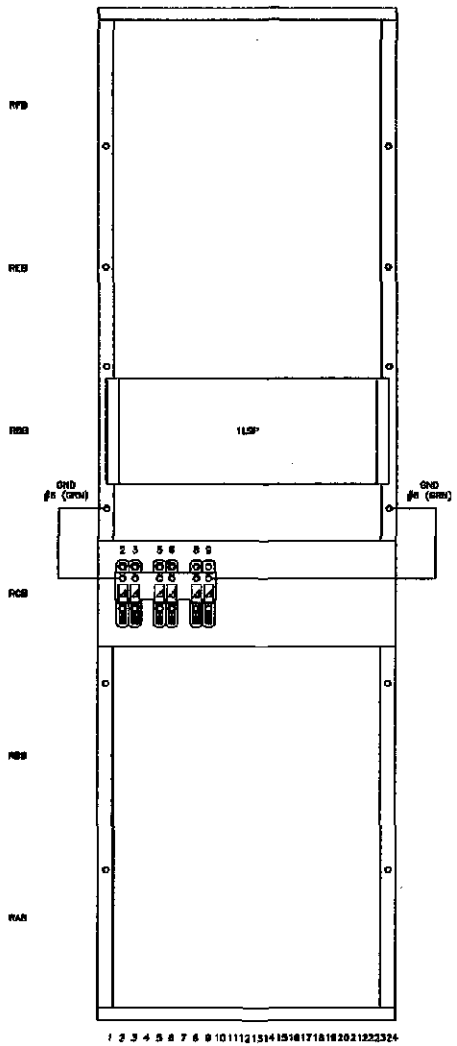
Wheeling & Lake Erie Railway

LOCATION
PLEASANT HOME RD., COUNTY RD. 48
WAYNE COUNTY, OHIO

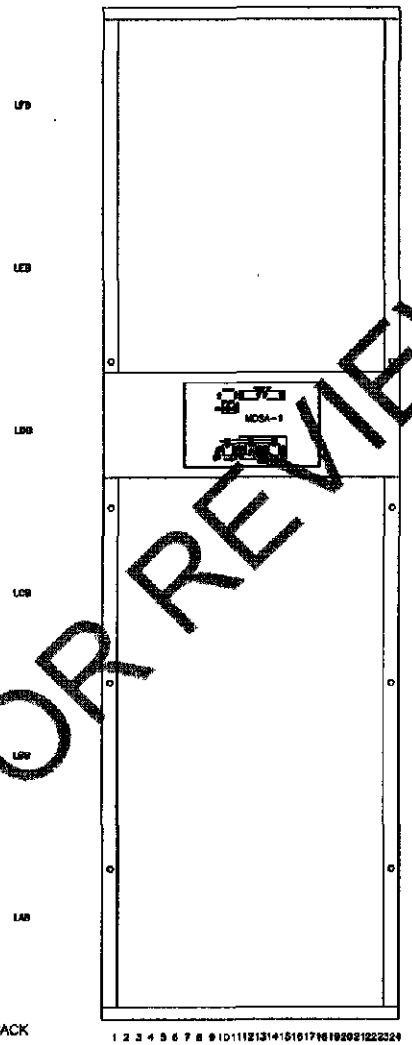
ORIGINAL DATE 08/15/2010	TITLE RACK FRONT VIEW		
DESIGNED CTC	DRAWN BREWSTER	DTC NO. CT10100	
SUBSTITUTED CTC	MAP B - 113.7	SCALE 1"=2'	
CHECKED CTC	DOT NO. 473-628U	SHEET 15 OF 18	

REVISION BLOCK

BACK OF RIGHT SIDE



BACK OF LEFT SIDE



SIDE "B" BACK

FOR REVIEW

CHANGE FROM TYPICAL B

REVISION BLOCK

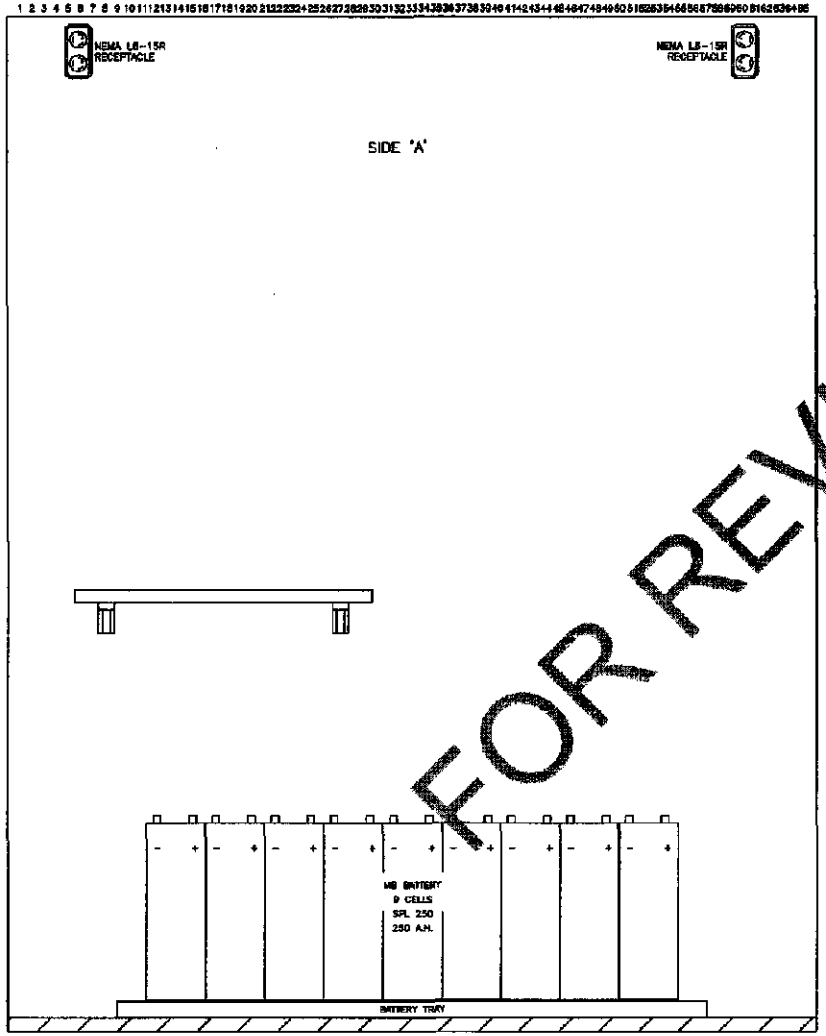
W&LE

Wheeling & Lake Erie Railway

LOCATION
PLEASANT HOME RD., COUNTY RD. 48
WAYNE COUNTY, OHIO

ORIGINAL DATE 09/15/2010 | TITLE BACK, BACK VIEW

DESIGNER CTC	SUB BREWSTER	CTC NO. CT10100
DRAFTSMAN CTC	ROAD B - 113.7	SCALE 1"=2'
CHECKED CTC	DGN NO. 473-528U	SHEET 16 OF 16



FOR REVIEW

REVISION BLOCK

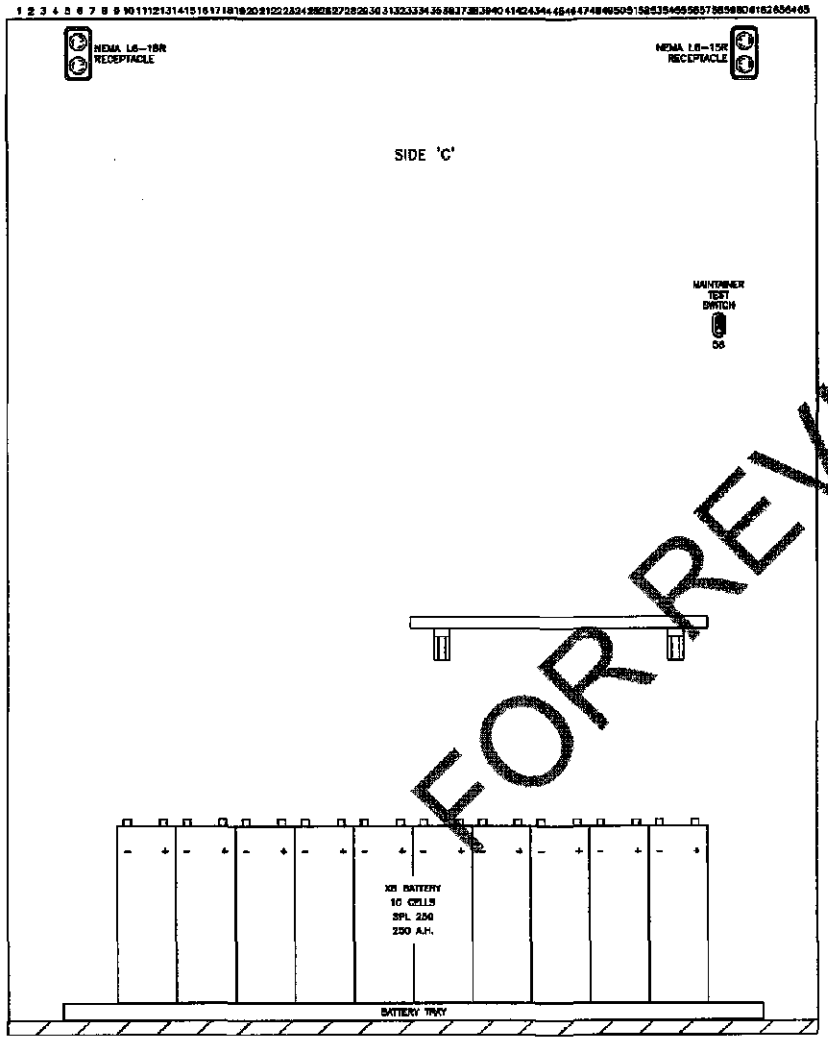
CHANGE FROM TYPICAL B

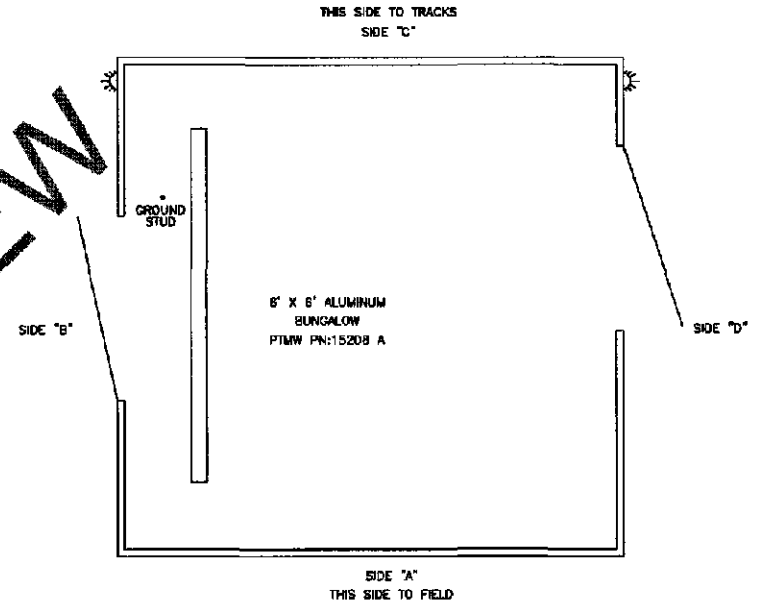
W&LE

Wheeling & Lake Erie Railway

LOCATION
PLEASANT HOME RD., COUNTY RD. 46
WAYNE COUNTY, OHIO

ORIGINAL DATE 09/15/2010	TITLE SIDE "A"		
DESIGNED CTC	SUB BREWSTER	CTC NO. CT10100	
DRAFTSMAN CTC	RROP B - 113.7	SCALE 1"=2"	
CHECKED CTC	SUB NO. 473-526U	SHEET 17 OF 18	





FOR REVIEW

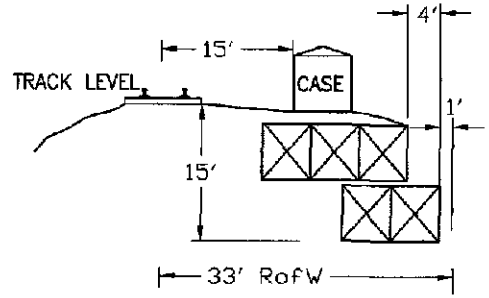
"REVISED 6.08"										CHANGE FROM TYPICAL: N	

W&LE

Wheeling & Lake Erie Railway

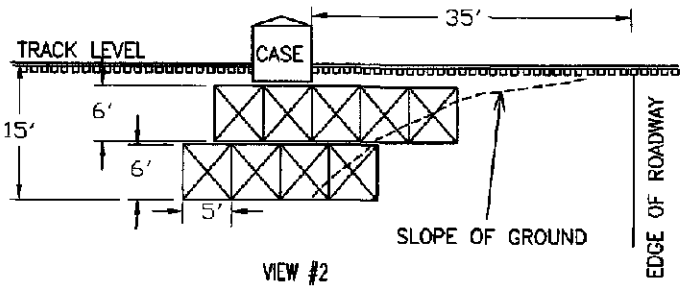
LOCATION: PLEASANT HOME RD., COUNTY RD. 48
WAYNE COUNTY, OHIO

ORIGINAL DATE 08/15/2010	TITLE SIDE "C"		
DESIGNER CTC	BUR BREWSTER	CTC NO. CT10100	
DRAFTSMAN CTC	MAP B - 113.7	SCALE 1"=2'	
CHECKED CTC	DOT NO. 473-528U	SHEET 18 OF 18	



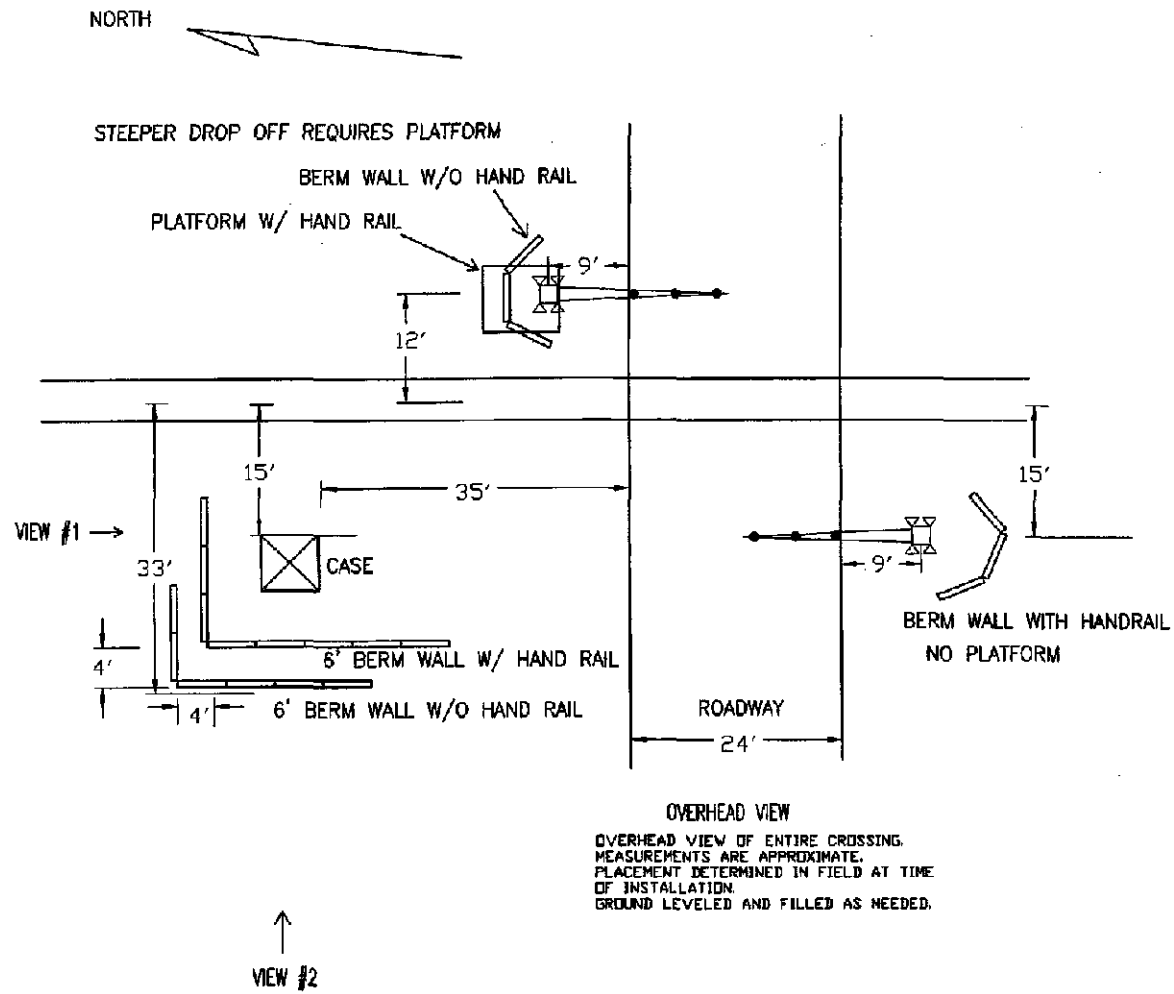
VIEW #1

VIEW LOOKING SOUTH TOWARDS ROADWAY. SECOND TIER SETBACK 4 FEET FROM FIRST. WALL MADE WITH TWO 6 FOOT SECTIONS FOR A TOTAL RISE OF 12 FEET. CONTROL CASE BASE WITHIN 3 FEET OF TOP OF RAIL. WALL ANCHORED PER MANUFACTURER SPEC. BASE OF WALL 1 FOOT OFF OF PROPERTY LINE.



VIEW #2

VIEW LOOKING EAST TOWARDS TRACKS FROM FIELD SIDE. 15' RISE IN GROUND LEVEL. SECOND TIER SETBACK 4 FEET FROM FIRST. WALL MADE WITH TWO 6 FOOT SECTIONS FOR A TOTAL RISE OF 12 FEET. CONTROL CASE BASE WITHIN 3 FEET OF TOP OF RAIL. WALL ANCHORED PER MANUFACTURER SPEC.



OVERHEAD VIEW

OVERHEAD VIEW OF ENTIRE CROSSING. MEASUREMENTS ARE APPROXIMATE. PLACEMENT DETERMINED IN FIELD AT TIME OF INSTALLATION. GROUND LEVELED AND FILLED AS NEEDED.

VIEW #2

WHEELING & LAKE ERIE RAILWAY
BREWSTER SUBDIVISION

W&LE

100 EAST FIRST STREET
BREWSTER, OHIO 44613

PLEASANT HOME ROAD
MILEPOST B-113.7
BERM WALL DETAILS

DRAFTSMAN: DAR	JOB NO.:
	DATE:
DOT NO.:	SCALE: NOT TO SCALE
	SHEET: ATTACHMENT 1

REVISION BLOCK