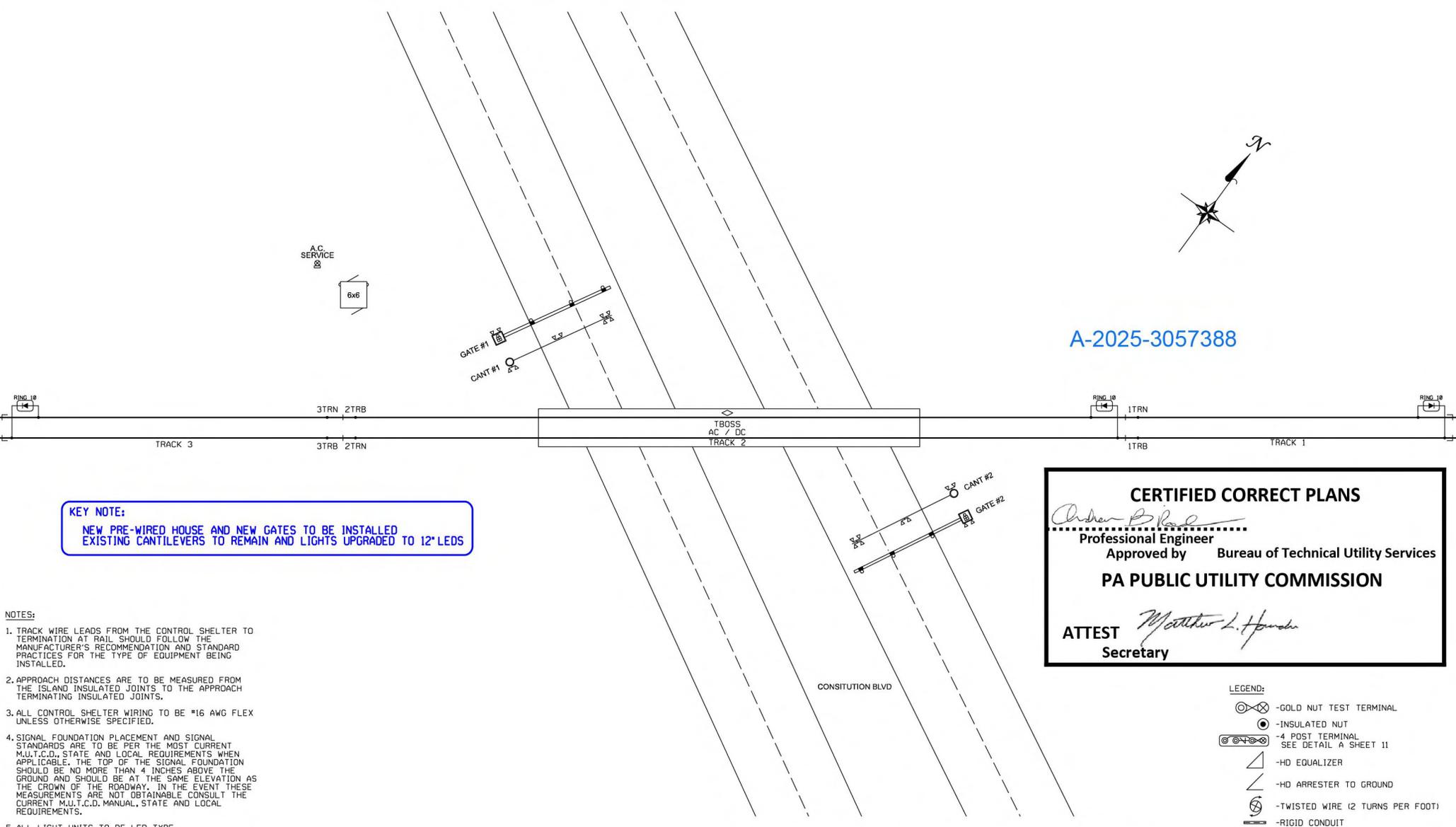




A-2025-3057388



KEY NOTE:
 NEW PRE-WIRED HOUSE AND NEW GATES TO BE INSTALLED
 EXISTING CANTILEVERS TO REMAIN AND LIGHTS UPGRADED TO 12" LEDS

NOTES:

1. TRACK WIRE LEADS FROM THE CONTROL SHELTER TO TERMINATION AT RAIL SHOULD FOLLOW THE MANUFACTURER'S RECOMMENDATION AND STANDARD PRACTICES FOR THE TYPE OF EQUIPMENT BEING INSTALLED.
2. APPROACH DISTANCES ARE TO BE MEASURED FROM THE ISLAND INSULATED JOINTS TO THE APPROACH TERMINATING INSULATED JOINTS.
3. ALL CONTROL SHELTER WIRING TO BE #16 AWG FLEX UNLESS OTHERWISE SPECIFIED.
4. SIGNAL FOUNDATION PLACEMENT AND SIGNAL STANDARDS ARE TO BE PER THE MOST CURRENT M.U.T.C.D., STATE AND LOCAL REQUIREMENTS WHEN APPLICABLE. THE TOP OF THE SIGNAL FOUNDATION SHOULD BE NO MORE THAN 4 INCHES ABOVE THE GROUND AND SHOULD BE AT THE SAME ELEVATION AS THE CROWN OF THE ROADWAY. IN THE EVENT THESE MEASUREMENTS ARE NOT OBTAINABLE CONSULT THE CURRENT M.U.T.C.D. MANUAL, STATE AND LOCAL REQUIREMENTS.
5. ALL LIGHT UNITS TO BE LED TYPE.

CERTIFIED CORRECT PLANS

Charles B. [Signature]
 Professional Engineer
 Approved by Bureau of Technical Utility Services

PA PUBLIC UTILITY COMMISSION

ATTEST *Matthew L. [Signature]*
 Secretary

- LEGEND:**
- GOLD NUT TEST TERMINAL
 - INSULATED NUT
 - 4 POST TERMINAL SEE DETAIL A SHEET 11
 - HD EQUALIZER
 - HD ARRESTER TO GROUND
 - TWISTED WIRE (2 TURNS PER FOOT)
 - RIGID CONDUIT

REVISIONS

NO.	DATE	DESCRIPTION

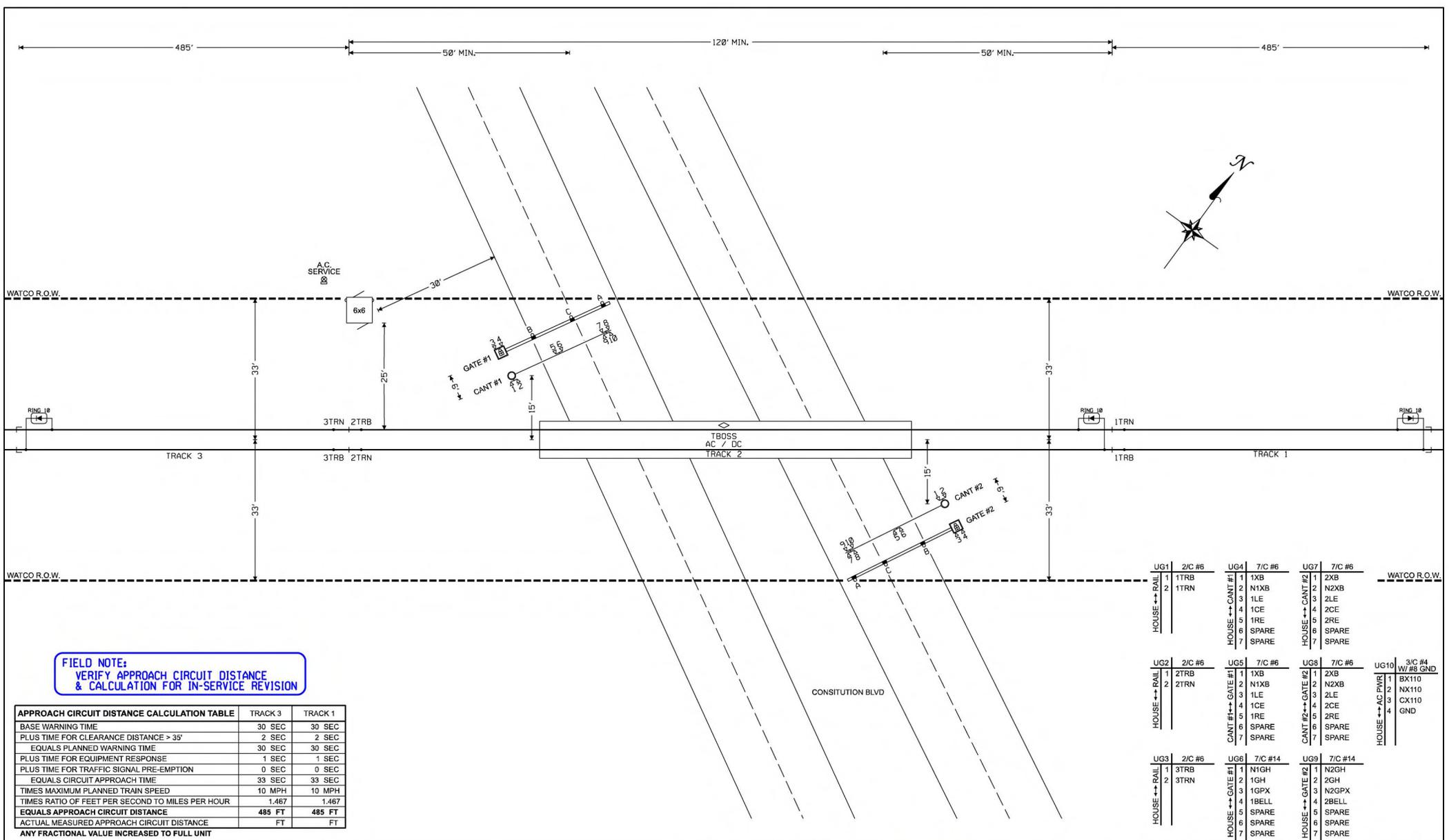
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YOUNGSTOWN & SOUTHERN RAILROAD
 -YSRR-

DOT# 869 997 V	GPS: 40.803820, -80.444050	MILEPOST# 34.30
DRAWN: O.J.M	CHECKED: C.D.L.	APPROVED: C.D.L.
DATE: 03-28-25	DRAWN BY CDL ELECTRIC INC.	

PRELIMINARY DRAWING NO. RCP-263 SHEET 1 OF 12



FIELD NOTE:
 VERIFY APPROACH CIRCUIT DISTANCE
 & CALCULATION FOR IN-SERVICE REVISION

APPROACH CIRCUIT DISTANCE CALCULATION TABLE	TRACK 3	TRACK 1
BASE WARNING TIME	30 SEC	30 SEC
PLUS TIME FOR CLEARANCE DISTANCE > 35'	2 SEC	2 SEC
EQUALS PLANNED WARNING TIME	30 SEC	30 SEC
PLUS TIME FOR EQUIPMENT RESPONSE	1 SEC	1 SEC
PLUS TIME FOR TRAFFIC SIGNAL PRE-EMPTION	0 SEC	0 SEC
EQUALS CIRCUIT APPROACH TIME	33 SEC	33 SEC
TIMES MAXIMUM PLANNED TRAIN SPEED	10 MPH	10 MPH
TIMES RATIO OF FEET PER SECOND TO MILES PER HOUR	1.467	1.467
EQUALS APPROACH CIRCUIT DISTANCE	485 FT	485 FT
ACTUAL MEASURED APPROACH CIRCUIT DISTANCE	FT	FT
ANY FRACTIONAL VALUE INCREASED TO FULL UNIT		

UG1	2/C #6	UG4	7/C #6	UG7	7/C #6	UG10	3/C #4 W/ #5 GND
HOUSE ++ RAIL	1 1TRB	CANT #1	1 1XB	HOUSE ++ CANT #2	1 2XB	HOUSE ++ AC PWR	1 BX110
	2 1TRN		2 N1XB		2 N2XB		2 NX110
			3 1LE		3 2LE		3 CX110
			4 1CE		4 2CE		4 GND
			5 1RE		5 2RE		
			6 SPARE		6 SPARE		
			7 SPARE		7 SPARE		
UG2	2/C #6	UG5	7/C #6	UG8	7/C #6		
HOUSE ++ RAIL	1 2TRB	CANT #2	1 1XB	HOUSE ++ GATE #2	1 N2XB		
	2 2TRN		2 N1XB		2 2LE		
			3 1LE		3 2CE		
			4 1CE		4 2RE		
			5 1RE		5 SPARE		
			6 SPARE		6 SPARE		
			7 SPARE		7 SPARE		
UG3	2/C #6	UG6	7/C #14	UG9	7/C #14		
HOUSE ++ RAIL	1 3TRB	HOUSE ++ GATE #1	1 N1GH	HOUSE ++ GATE #2	1 N2GH		
	2 3TRN		2 1GH		2 2GH		
			3 1GPX		3 N2GPX		
			4 1BELL		4 2BELL		
			5 SPARE		5 SPARE		
			6 SPARE		6 SPARE		
			7 SPARE		7 SPARE		

REVISIONS

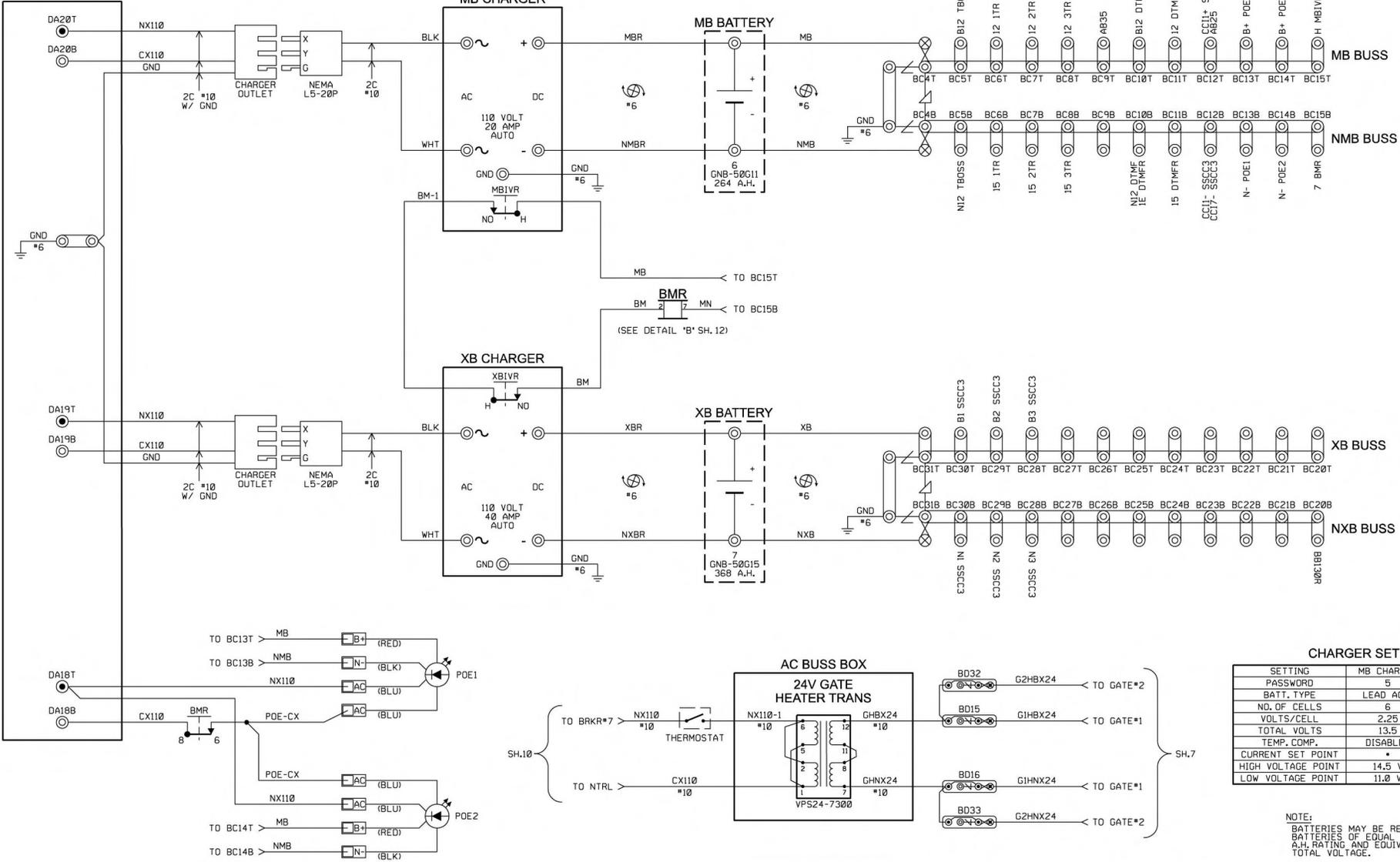
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YOUNGSTOWN & SOUTHERN RAILROAD
 -YSRR-

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CHECKED: C.D.L	DARLINGTON, PA	DRAWING NO.
APPROVED: C.D.L		RCP-263
DATE: 03-28-25	DRAWN BY CDL ELECTRIC INC.	SHEET 2 OF 12

AC BUSS BOX



CHARGER SETTINGS

SETTING	MB CHARGER	XB CHARGER
PASSWORD	5	5
BATT. TYPE	LEAD ACID	LEAD ACID
NO. OF CELLS	6	7
VOLTS/CELL	2.25	2.26
TOTAL VOLTS	13.5	15.8
TEMP. COMP.	DISABLED	DISABLED
CURRENT SET POINT	*	*
HIGH VOLTAGE POINT	14.5 V	16.5 V
LOW VOLTAGE POINT	11.0 V	13.5 V

NOTE:
BATTERIES MAY BE REPLACED WITH BATTERIES OF EQUAL OR GREATER A.H. RATING AND EQUIVALENT TOTAL VOLTAGE.

REVISIONS

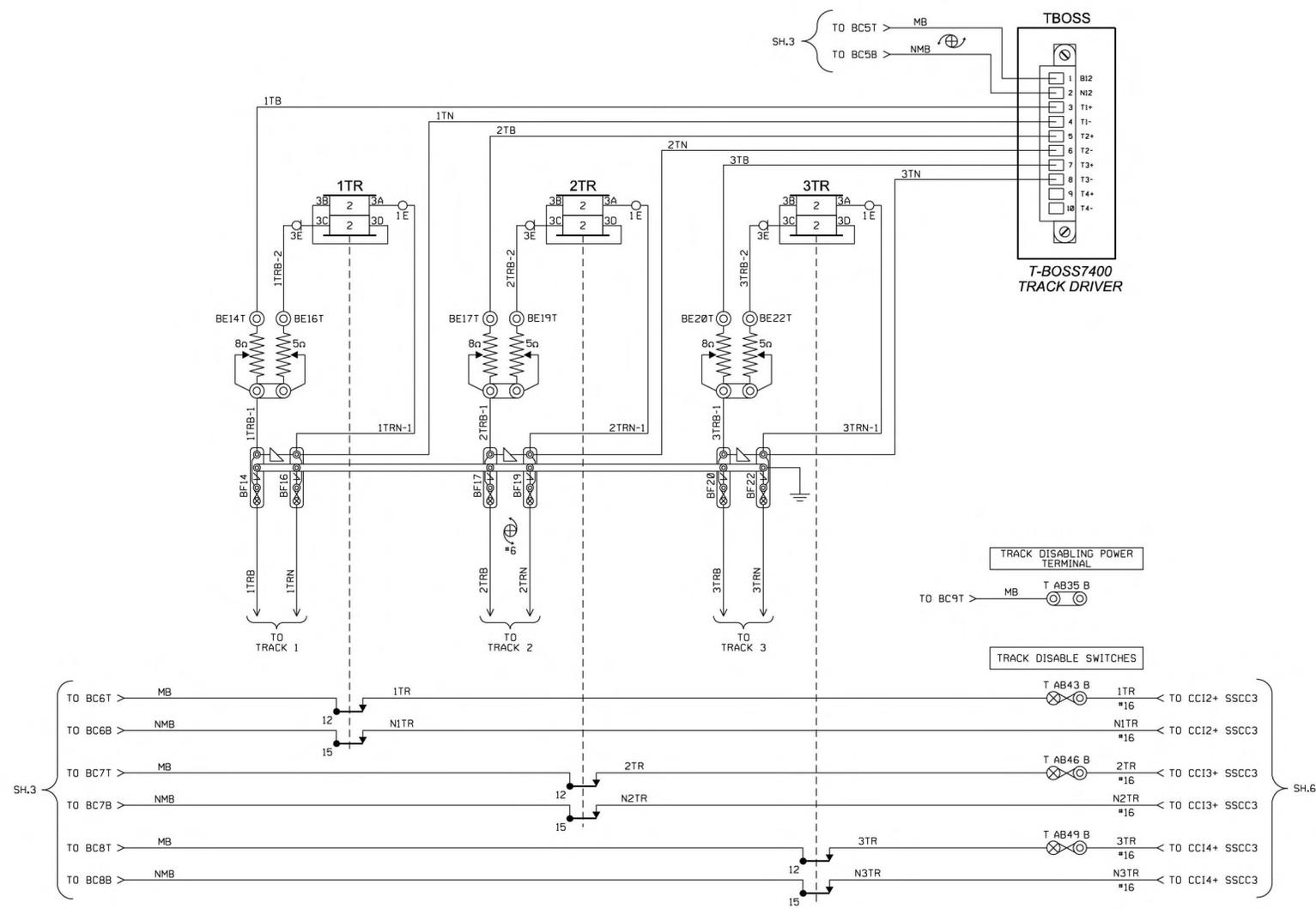
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NOTE:
1. ALL WIRE ON THIS SHEET TO BE #10 AWG UNLESS OTHERWISE NOTED

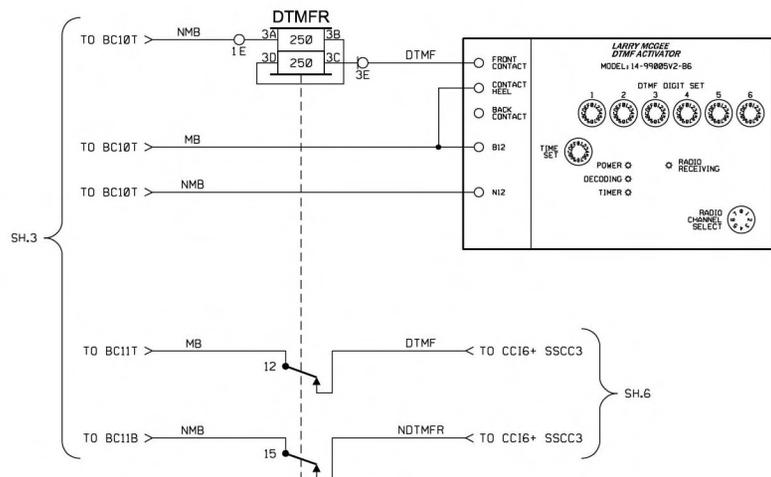


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DESCRIPTION	CODE
ACTIVATE CROSSING W/ 2 MIN. TIMER	000997 *
DE-ACTIVATE CROSSING	000997 #

NOTE: FACTORY SET TO MODE 7.
 TIMER DELAY DEACTIVATES RELAY IF ** CODE IS NOT SENT.
 TIMER INCREMENT IS MINUTES.

REVISIONS

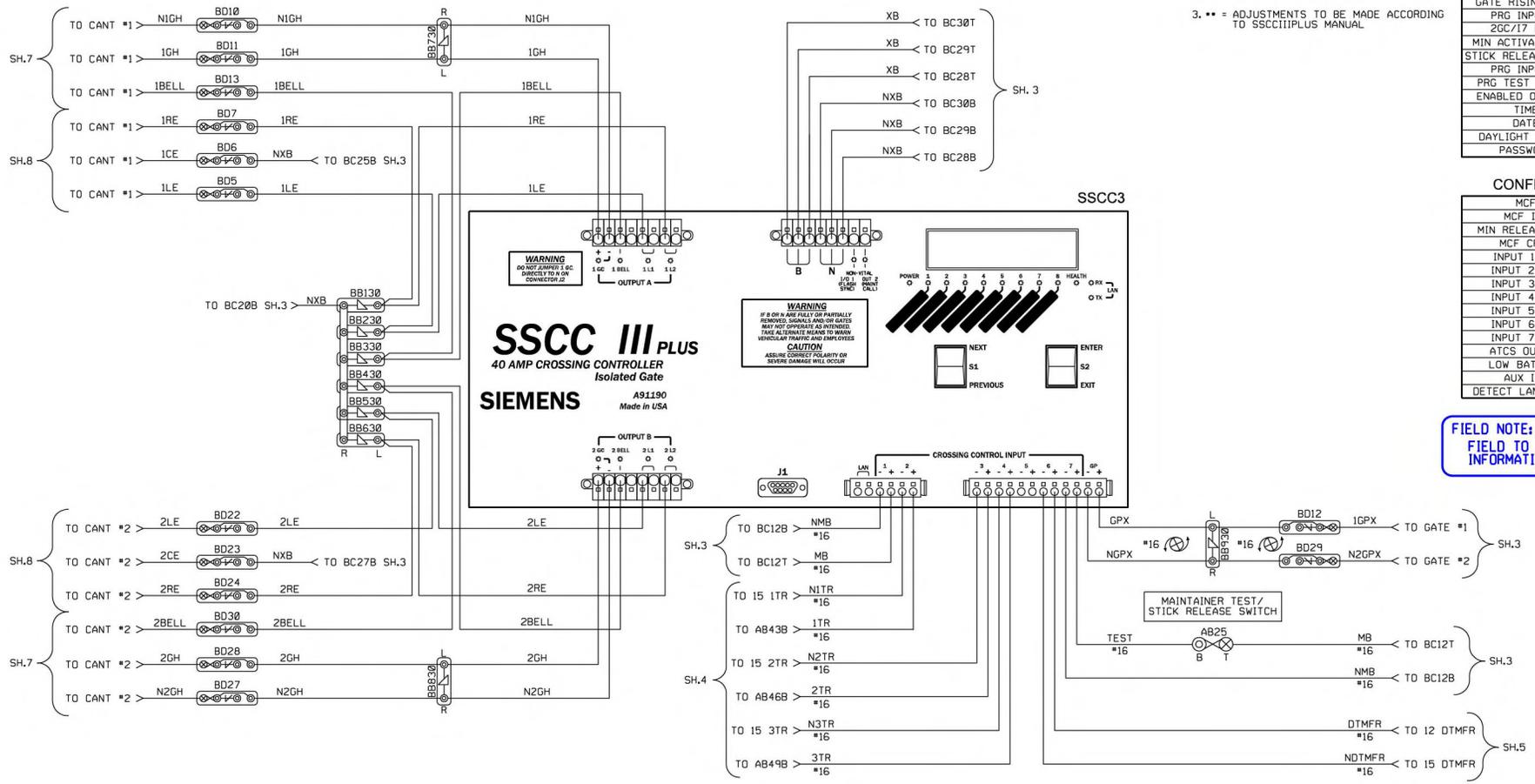
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NOTE:
1. ALL WIRE ON THIS SHEET TO BE
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PROGRAM NOTES:
1. MCF PN: 9V618-A005F
2. * = DEFAULT PROGRAM VALUE
3. ** = ADJUSTMENTS TO BE MADE ACCORDING TO SSCCIIIPLUS MANUAL

PROGRAM SETTINGS	
FLASH RATE	50 FPM **
GATES USED	YES **
IGC DELAY	6 SEC **
GATE RISING BELL	ON **
PRG INPUT 5	DISABLED **
2GC/17 MODE	NORMAL **
MIN ACTIVATE TIME	20 SEC **
STICK RELEASE TIMER	15 MIN **
PRG INPUT 7	TEST SWITCH **
PRG TEST SWITCH	ACT STK RELEASE **
ENABLED OUTPUTS	A AND B **
TIME	HH:MM:SS **
DATE	YYYY MMM DD **
DAYLIGHT SAVING	DISABLED **
PASSWORD	DISABLED **

CONFIGURATION SETTINGS	
MCF	2TRKDSTK **
MCF ID*	320 **
MIN RELEASE LVL	0
MCF CRC*	A9776265
INPUT 1 LOS	6 SEC **
INPUT 2 LOS	6 SEC **
INPUT 3 LOS	6 SEC **
INPUT 4 LOS	DISABLED **
INPUT 5 LOS	DISABLED **
INPUT 6 LOS	DISABLED **
INPUT 7 LOS	DISABLED **
ATCS OUTPUT	700000000000
LOW BATTERY	12.8 VOLTS *
AUX I/O	NON-VITAL OUT *
DETECT LAMP NEUT	ND

FIELD NOTE:
FIELD TO PROVIDE SSCC III PROGRAM INFORMATION FOR IN-SERVICE REVISION

REVISIONS

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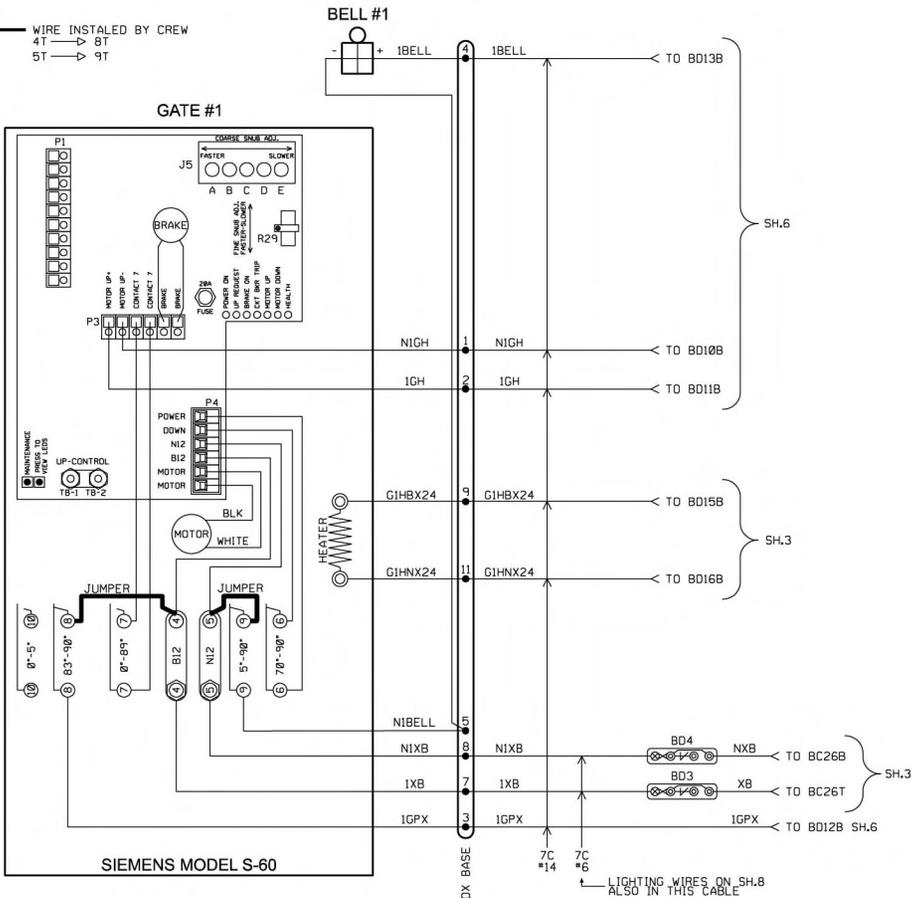


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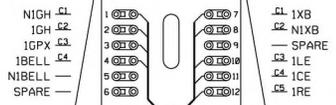
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NOTE:

— WIRE INSTALLED BY CREW
 4T → 8T
 5T → 9T



GATE #1
JCT BOX BASE

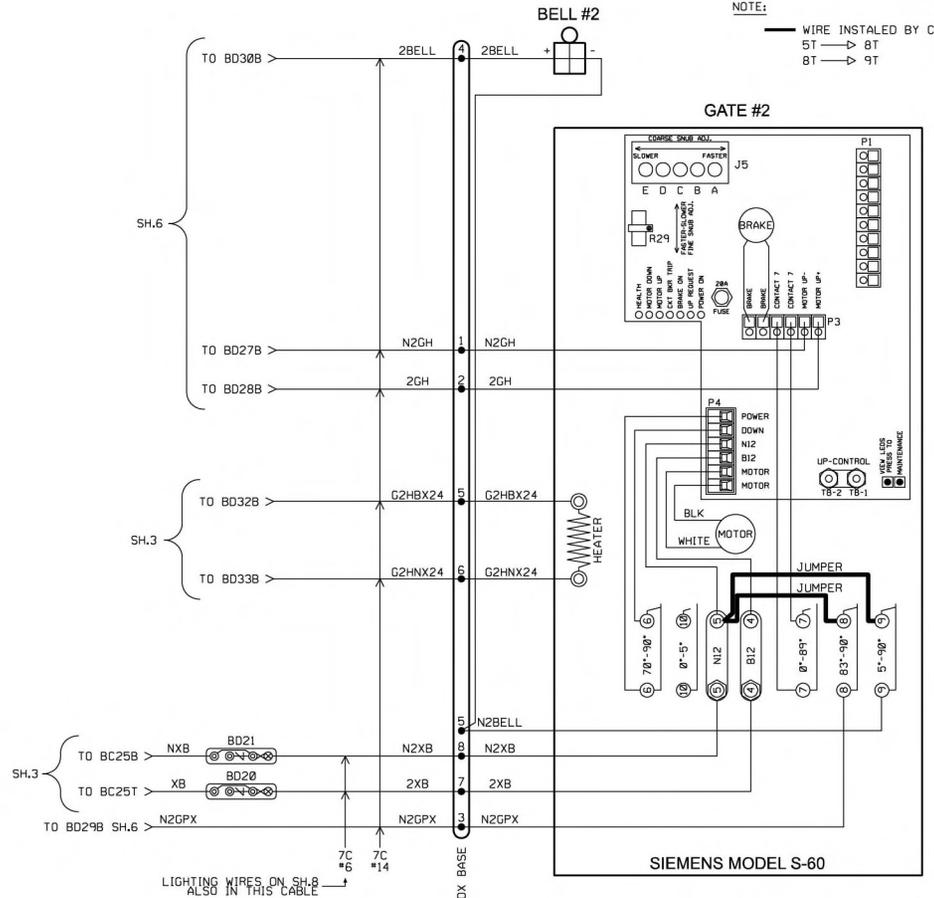


S-60 GATE CONTACT FUNCTIONS

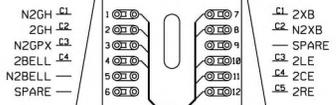
CONTACT	CLOSED	FUNCTION
6	70°-90°	POWER DOWN
7	0°-89°	POWER UP
8	83°-90°	FLASHING LIGHT CONTROL
9	5°-90°	BELL
10	0°-5°	GATE DOWN INDICATION

NOTE:

— WIRE INSTALLED BY CREW
 5T → 8T
 8T → 9T



GATE #2
JCT BOX BASE



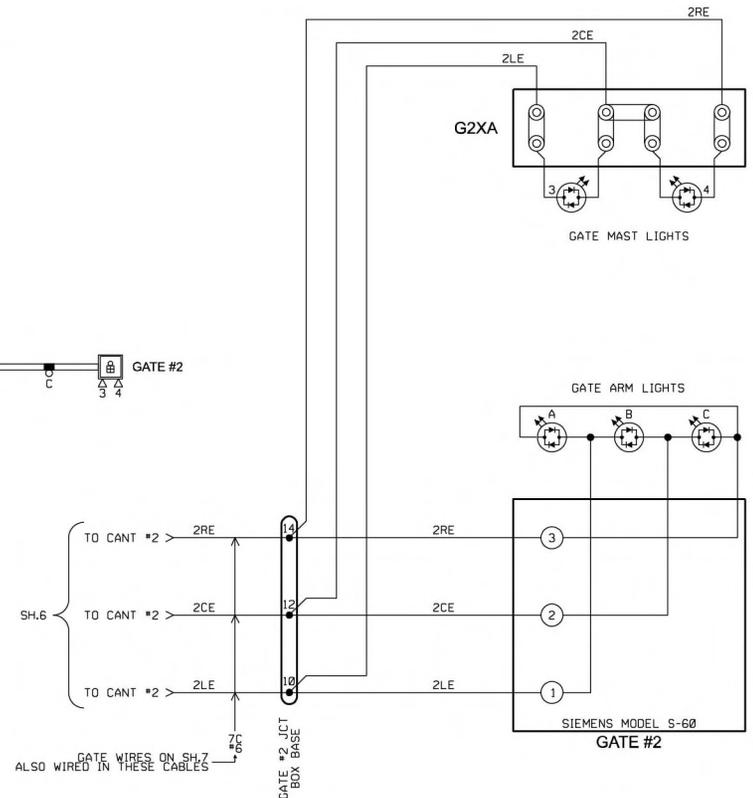
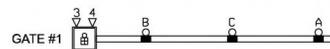
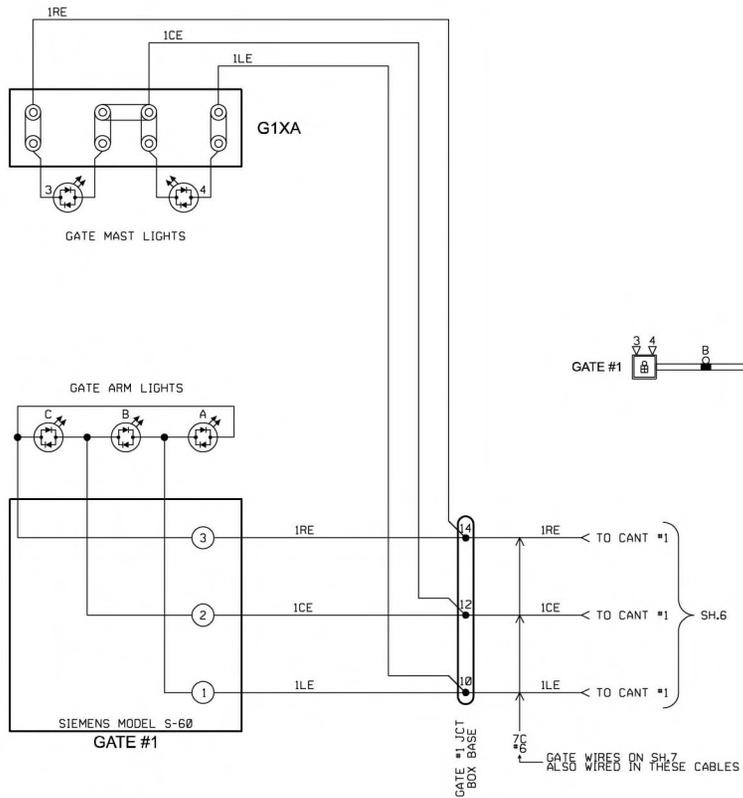
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NOTES:

1. = LED SIGNAL LAMP WITH 8.5 TO 16 VOLTS WORKING VOLTAGE
2. DO NOT MIX INCANDESCENT AND LED LAMPS IN FLASHING LIGHT PAIRS IN ORDER TO ALLOW VOLTAGE ADJUSTMENT TO ONE VALUE.
3. ALL WIRING ON THIS SHEET TO BE #10 AWG UNLESS OTHERWISE NOTED.

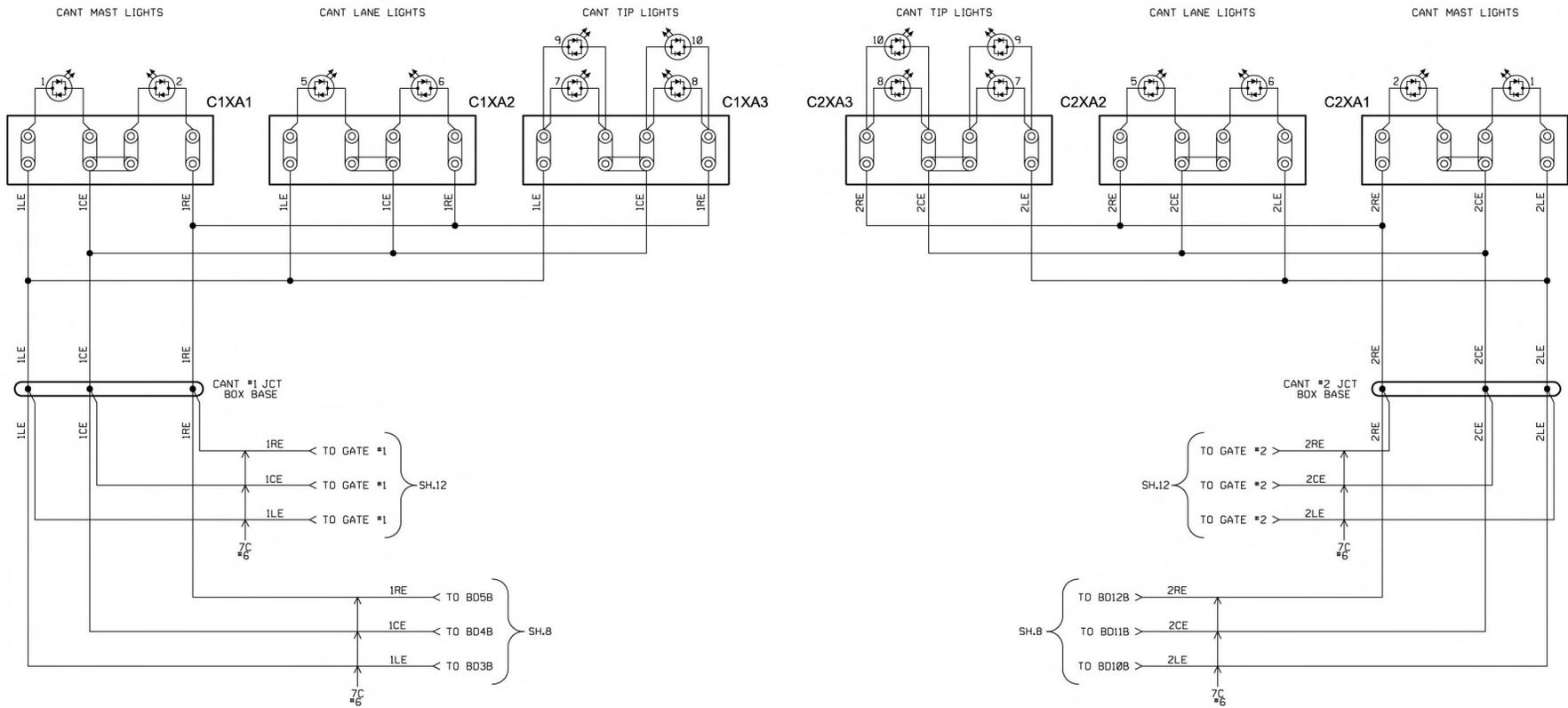
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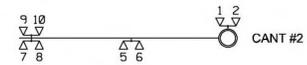
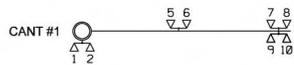
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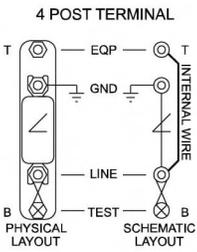
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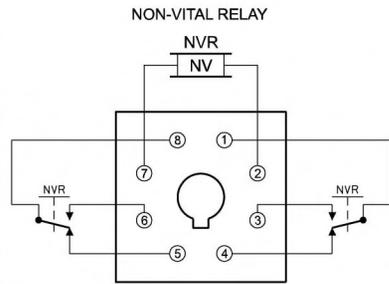


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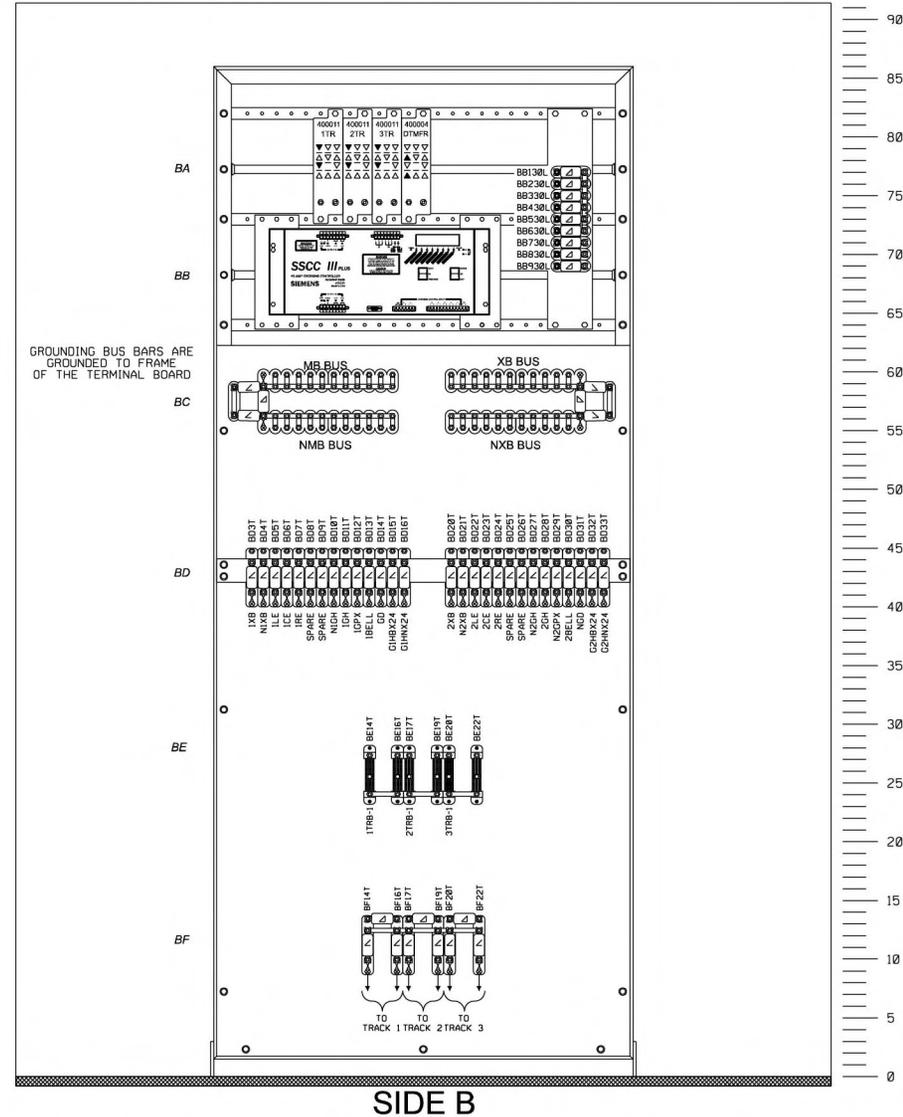
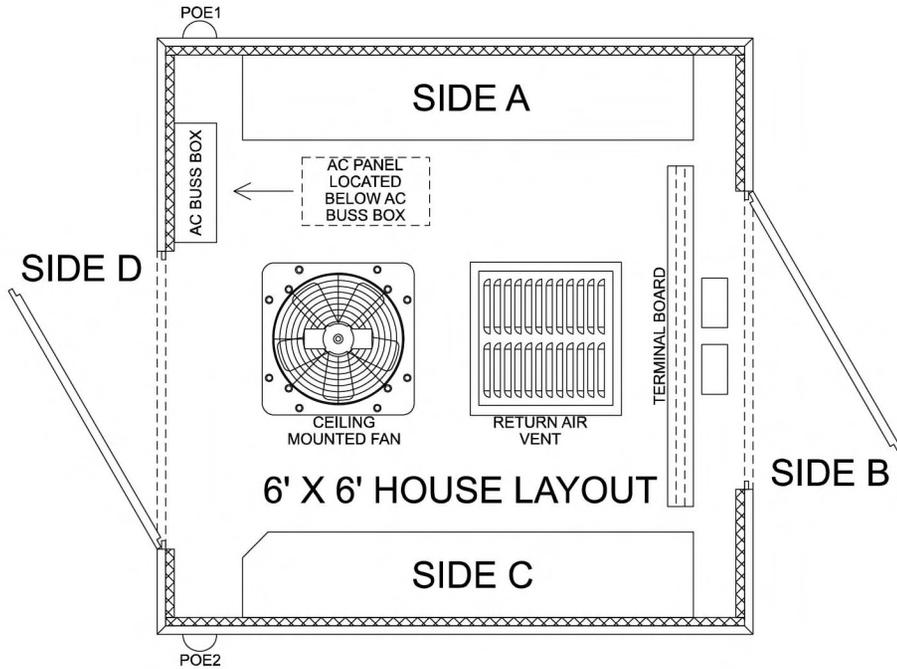
DETAIL "A"



DETAIL "B"

EQUIPMENT P/N LIST

DESCRIPTION	PART NUMBER
ARRESTOR	202216-001
EQUALIZERS	202217-000
SSCCIII+	A91190
TRACK RELAYS	400011
DTMFR	400004



SIDE B

REVISIONS

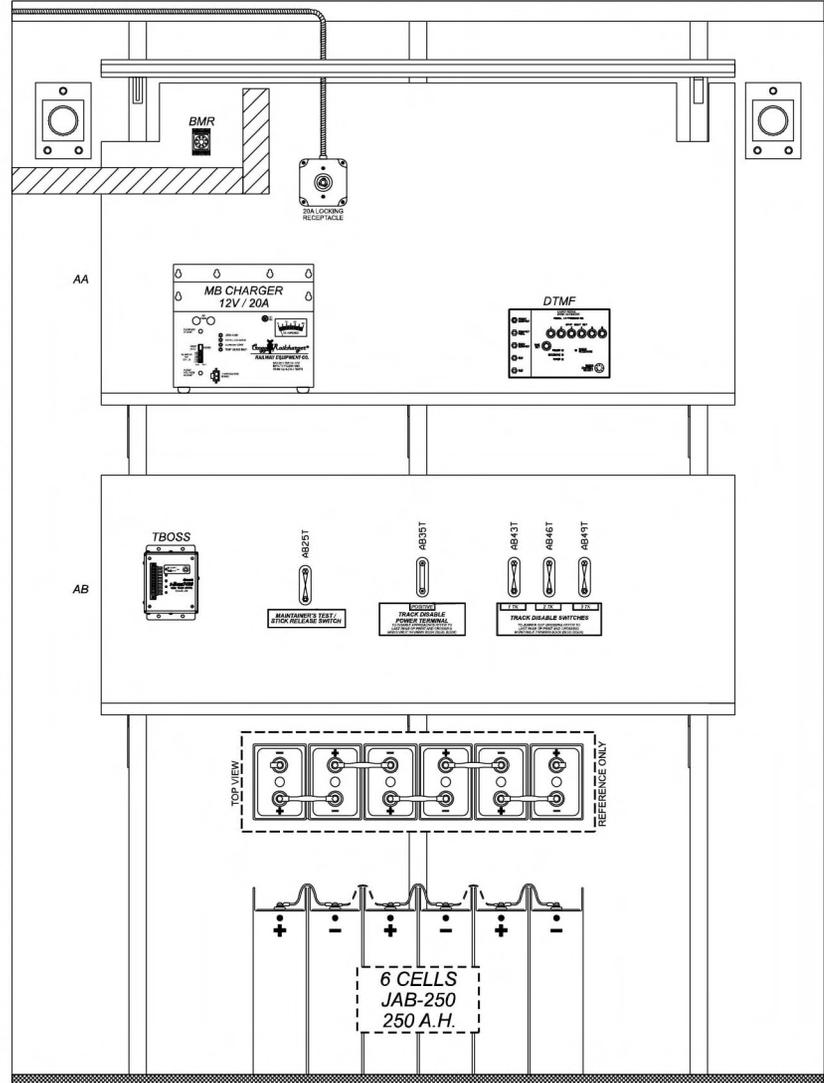
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0 5 10 15 20 25 30 35 40 45 50 55 60 65 70



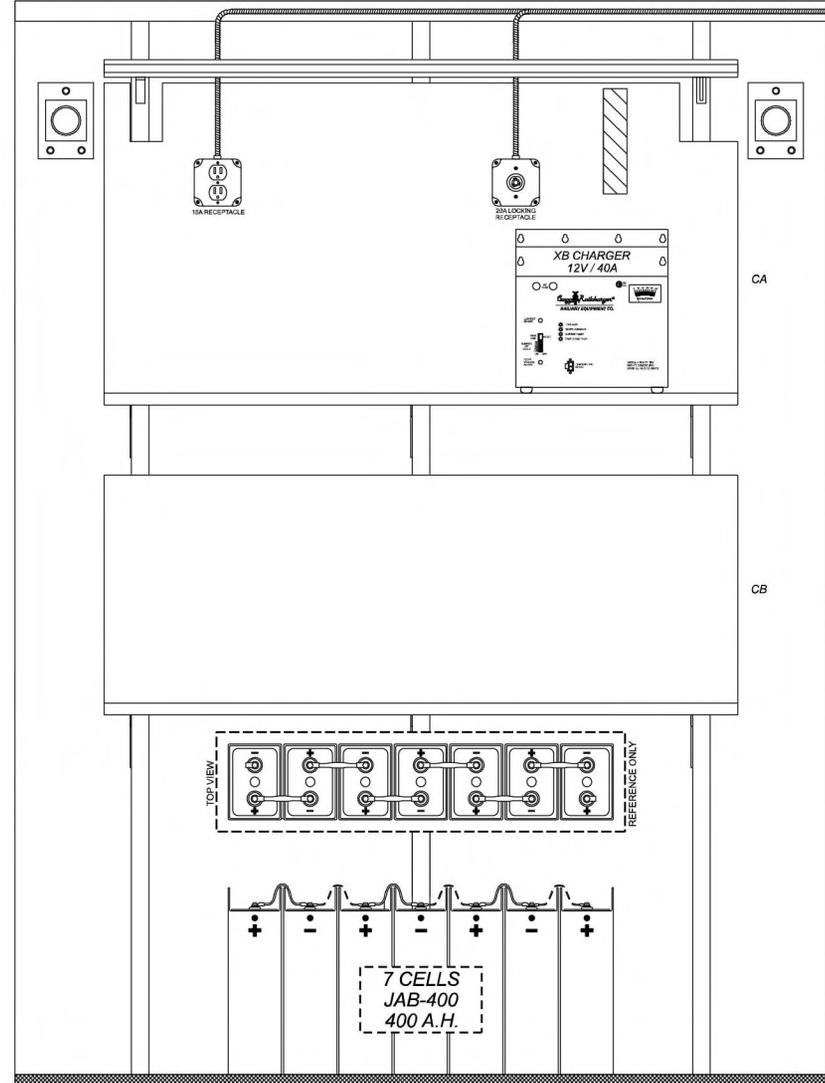
SIDE A

EQUIPMENT P/N LIST

DESCRIPTION	PART NUMBER
POE LIGHTS	TSL-P0K-WCF-AB1
BMR	04R7317
MB CHARGER	200TC-12V
MB BATTERY	JAB-250
XB CHARGER	400TC-12V
XB BATTERY	JAB-400
TBOSS	10041-1000SP
DTMF	14-99005V2-B6

- NOTES:
1. BATTERIES MAY BE REPLACED WITH BATTERIES OF EQUAL OR GREATER A.H. RATING AND EQUIVALENT TOTAL VOLTAGE.
 2. CHARGERS MAY BE REPLACED WITH CHARGERS OF EQUIVALENT INPUT AND OUTPUT VOLTAGES AND AMPERAGE.

0 5 10 15 20 25 30 35 40 45 50 55 60 65 70



SIDE C

REVISIONS

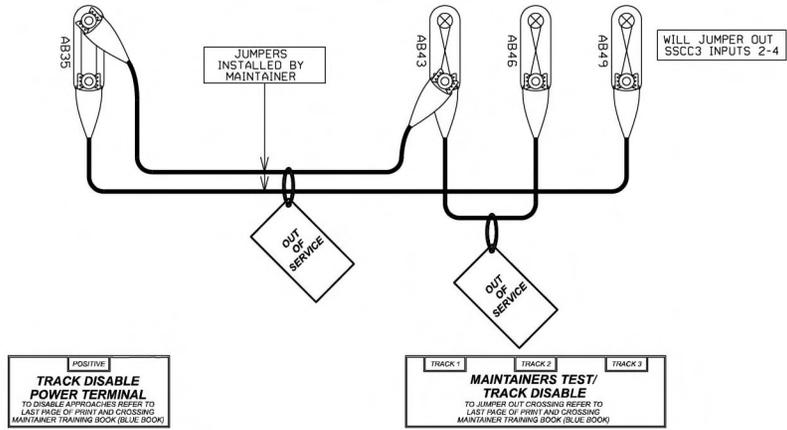
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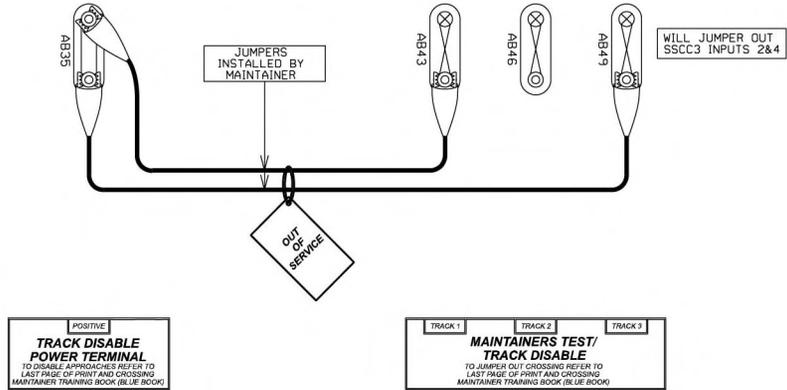
CROSSING DISABLE PROCEDURE



CROSSING DISABLE PROCEDURE

TO DISABLE CROSSING JUMPER FROM THE CROSSING DISABLE POWER TERMINAL TO THE BOTTOM TERMINAL OF EACH THE TRACK DISABLE SWITCHES FOR THE TRACK/S YOU WISH TO DISABLE. REFER TO CROSSING MAINTAINER TRAINING BOOK (BLUE BOOK)

APPROACH DISABLE / ISLAND ONLY SETUP PROCEDURE



ISLAND ONLY PROCEDURE

TO DISABLE CROSSING APPROACHES AND SET THE CROSSING TO ISLAND ONLY ACTIVATION, JUMPER FROM THE CROSSING DISABLE POWER TERMINAL TO THE BOTTOM TERMINAL OF TRACK 1 AND TRACK 2 DISABLE SWITCHES. REFER TO CROSSING MAINTAINER TRAINING BOOK (BLUE BOOK)

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