



November 17, 2025

Matthew L. Homsher, Secretary
Pennsylvania Public Utility Commission
400 North Street
Harrisburg, PA 17120

PUC Docket A-2025-3057388

Re: Application of the Department of Transportation of the Commonwealth of Pennsylvania for the approval to alter the public at-grade crossing by replacing the existing warning devices, adding gates, and installing a new high-type surface improvement where Constitution Boulevard crosses a single track of Youngstown and Southeastern Railroad (DOT No. 869 979 V) in Darlington Township, Beaver County, all in accordance with the Federal Grade Crossing Program and the allocation of costs incident thereto.

Dear Secretary Homsher:

Enclosed for PUC approval is the crossing upgrade plans for the subject project.

A copy of the plans has been served upon the parties in the Certificate of Service to the Application.

Should you have any questions or concerns, please feel free to contact me at 412-429-3798 or miacitelli@pa.gov

Sincerely,

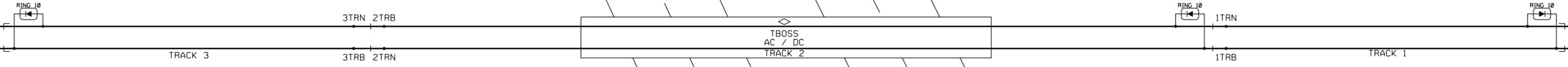
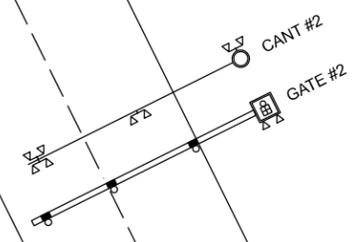
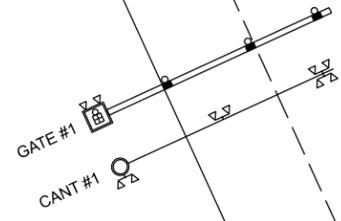
Michele Acitelli, P.E.
District Utility and Grade Crossing Engineer
Department of Transportation
Engineering District 11-0

Enclosure

cc: Parties of Record
Mark Chappell, P.E., Chief, Right-of-Way, Utilities and Grade Crossing Division
Karen Cummings, Senior Counsel, Office of Chief Counsel
William Sinick, P.E., C.B.S.I., Rail Safety Division, Engineering Section, PUC



A.C. SERVICE



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.

CONSITUTION BLVD

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 |
|-----|------|-------------|
| | | |
| | | |
| | | |

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.

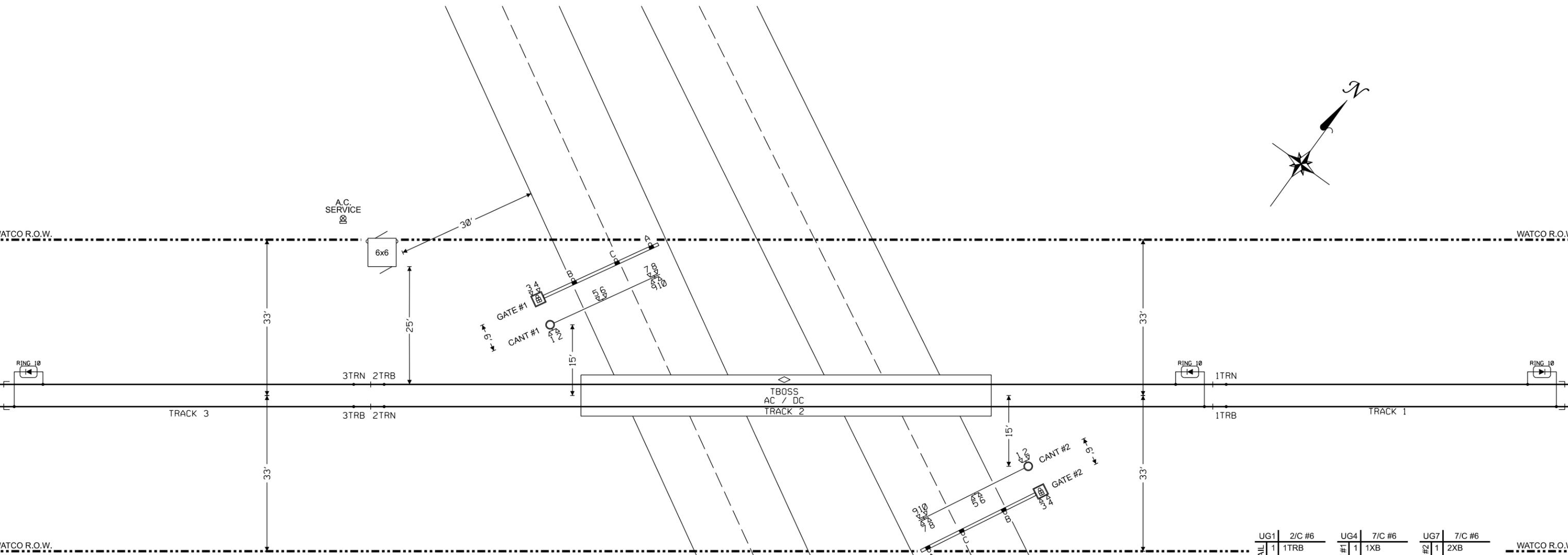


YOUNGSTOWN & SOUTHERN RAILROAD
 -YSRR-

DOT# 869 997 V GPS: 40.803820, -80.444050 MILEPOST# 34.30

DRAWN: O.J.M CONSITUTION BLVD - GRADE CROSSING PRELIMINARY
 CHECKED: C.D.L DARLINGTON, PA DRAWING NO.
 APPROVED: C.D.L RCP-263
 DATE: 03-28-25 DRAWN BY CDL ELECTRIC INC. SHEET 1 OF 12

485' 50' MIN. 120' MIN. 50' MIN. 485'



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 | | |
| RAIL | 1 1TRB | CANT #1 | 1 1XB | CANT #2 | 1 2XB | | |
| RAIL | 2 1TRN | 2 | 2 N1XB | 2 | 2 N2XB | | |
| HOUSE | | 3 | 3 1LE | 3 | 3 2LE | | |
| | | 4 | 4 1CE | 4 | 4 2CE | | |
| | | 5 | 5 1RE | 5 | 5 2RE | | |
| | | 6 | 6 SPARE | 6 | 6 SPARE | | |
| | | 7 | 7 SPARE | 7 | 7 SPARE | | |
| UG2 | 2/C #6 | UG5 | 7/C #6 | UG8 | 7/C #6 | UG10 | 3/C #4 |
| RAIL | 1 2TRB | GATE #1 | 1 1XB | GATE #2 | 1 2XB | AC PWR | W/ #8 GND |
| RAIL | 2 2TRN | 2 | 2 N1XB | 2 | 2 N2XB | 1 | BX110 |
| HOUSE | | 3 | 3 1LE | 3 | 3 2LE | 2 | NX110 |
| | | 4 | 4 1CE | 4 | 4 2CE | 3 | CX110 |
| | | 5 | 5 1RE | 5 | 5 2RE | 4 | GND |
| | | 6 | 6 SPARE | 6 | 6 SPARE | | |
| | | 7 | 7 SPARE | 7 | 7 SPARE | | |
| UG3 | 2/C #6 | UG6 | 7/C #14 | UG9 | 7/C #14 | | |
| RAIL | 1 3TRB | GATE #1 | 1 N1GH | GATE #2 | 1 N2GH | | |
| RAIL | 2 3TRN | 2 | 2 1GH | 2 | 2 2GH | | |
| HOUSE | | 3 | 3 1GPX | 3 | 3 N2GPX | | |
| | | 4 | 4 1BELL | 4 | 4 2BELL | | |
| | | 5 | 5 SPARE | 5 | 5 SPARE | | |
| | | 6 | 6 SPARE | 6 | 6 SPARE | | |
| | | 7 | 7 SPARE | 7 | 7 SPARE | | |

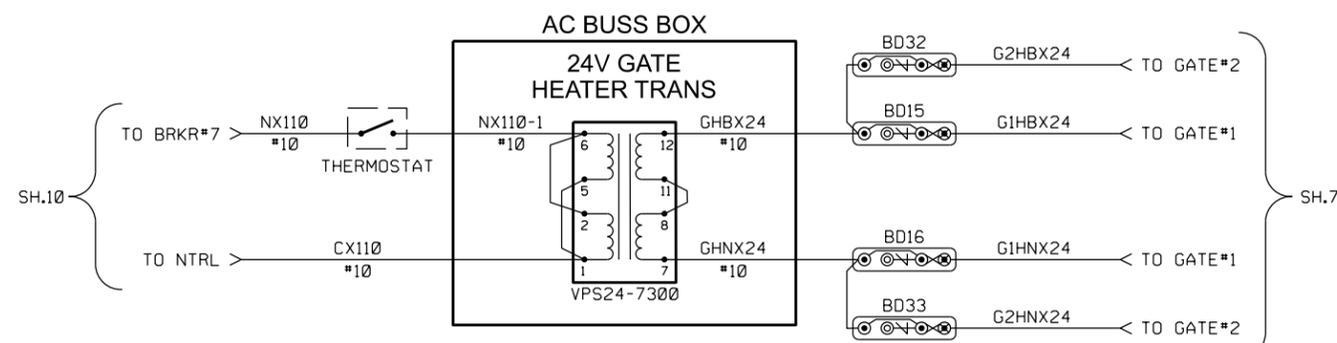
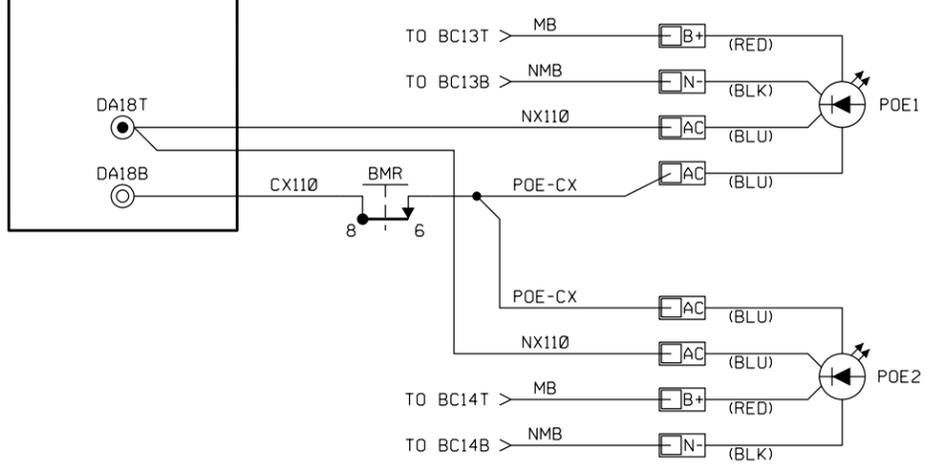
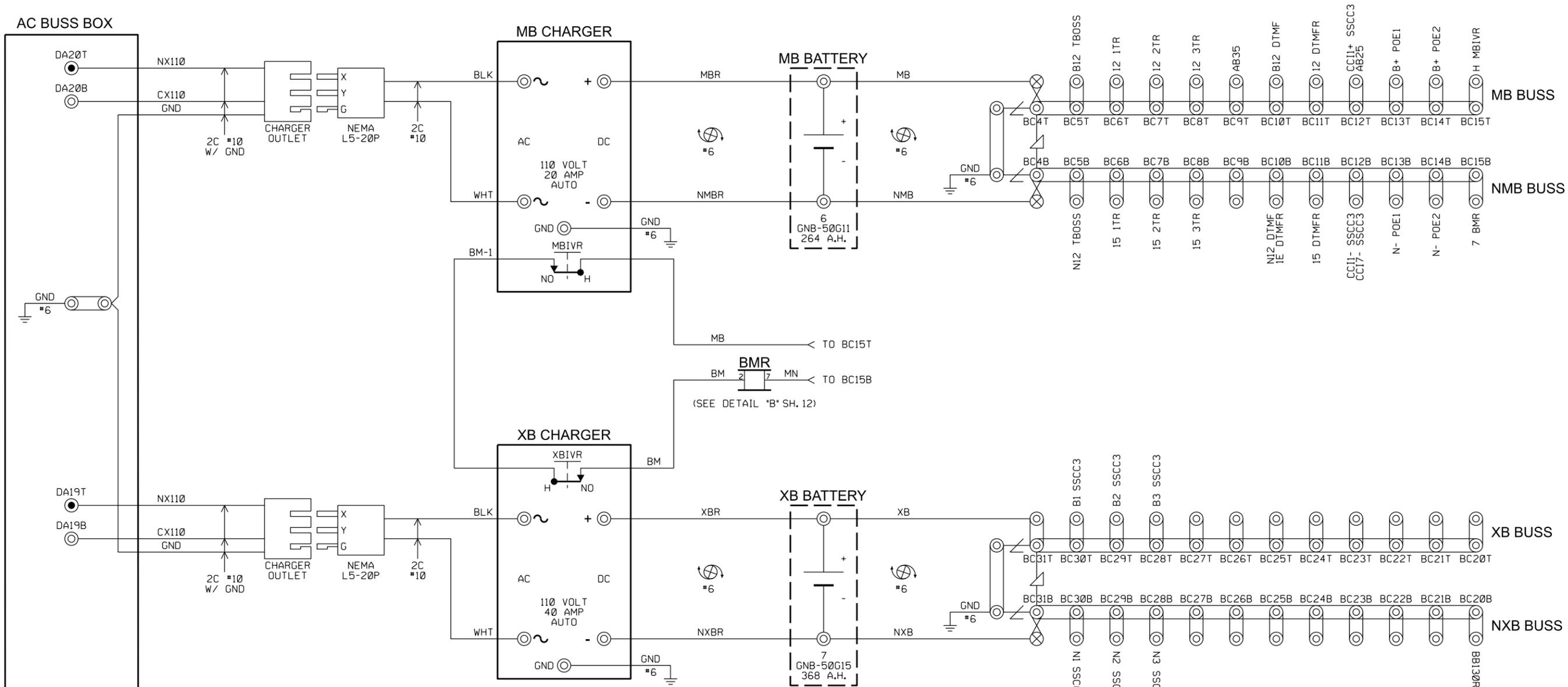
REVISIONS

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YOUNGSTOWN & SOUTHERN RAILROAD
 -YSRR-

DOT# 869 997 V GPS: 40.803820, -80.444050 MILEPOST# 34.30
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 CHECKED: C.D.L.
 APPROVED: C.D.L.
 DATE: 03-28-25 DRAWN BY CDL ELECTRIC INC.
 PRELIMINARY DRAWING NO. RCP-263 SHEET 2 OF 12



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.

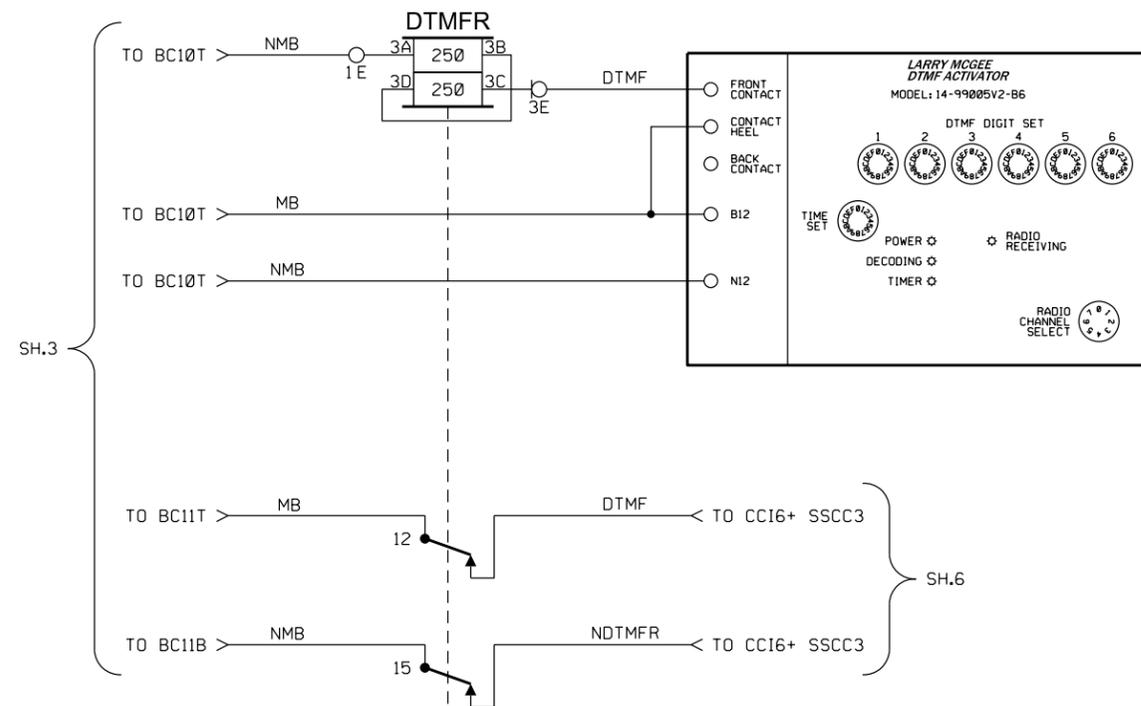
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| DATE: 03-28-25 | DRAWN BY CDL ELECTRIC INC. | SHEET 3 OF 12 |



| 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.

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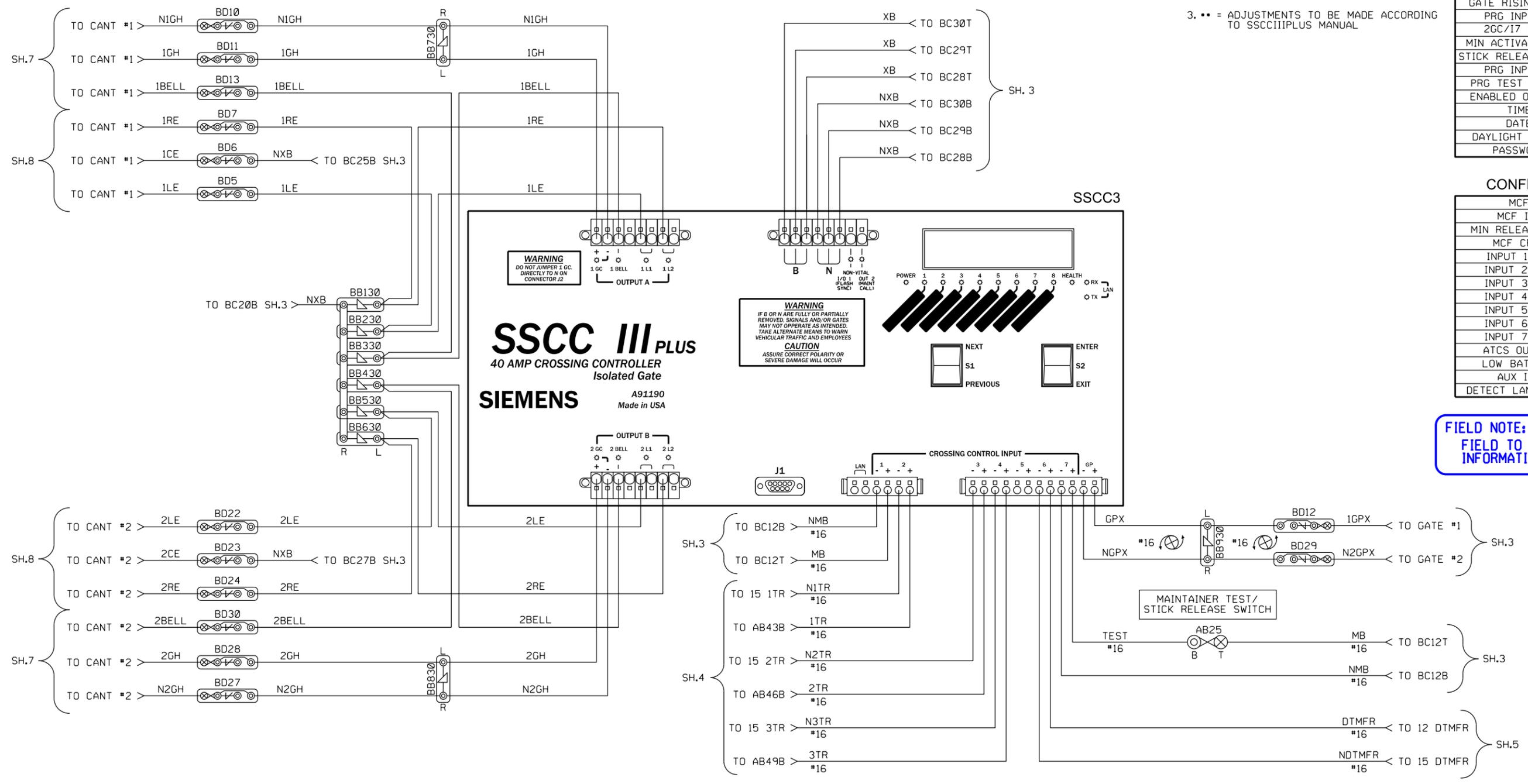
NOTE:
 1. ALL WIRE ON THIS SHEET TO BE
 *10 AWG UNLESS OTHERWISE NOTED

- PROGRAM NOTES:
1. MCF PN: 9V610-A005F
 2. • = DEFAULT PROGRAM VALUE
 3. ** = ADJUSTMENTS TO BE MADE ACCORDING TO SSCCIIIPLUS MANUAL

| PROGRAM SETTINGS | |
|---------------------|--------------------|
| FLASH RATE | 50 FPM • |
| GATES USED | YES ** |
| 1GC 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 | D |
| 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 | 70000000000 • |
| LOW BATTERY | 12.0 VOLTS • |
| AUX I/O | NON-VITAL OUT • |
| DETECT LAMP NEUT | NO • |

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



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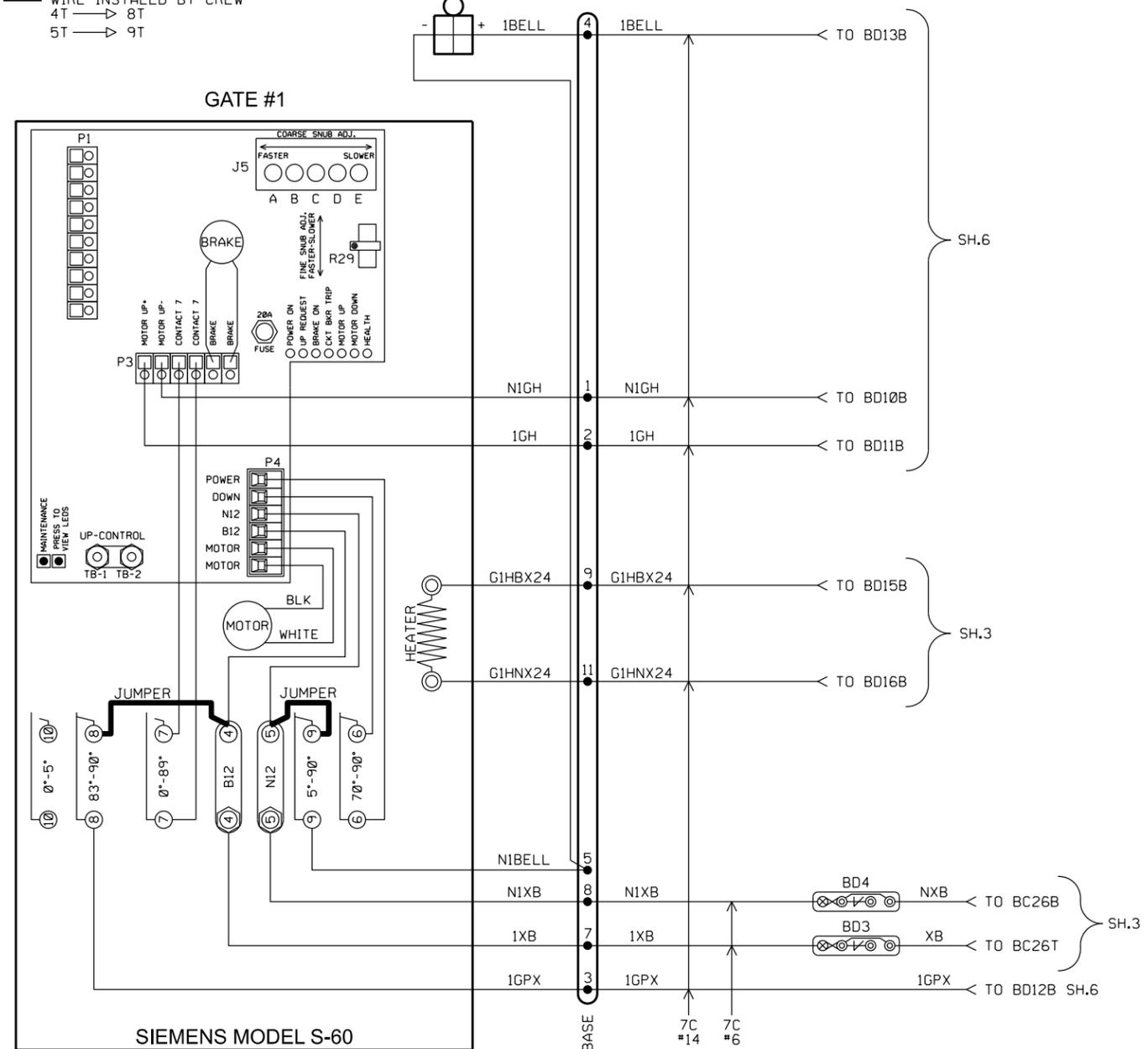
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NOTE:

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

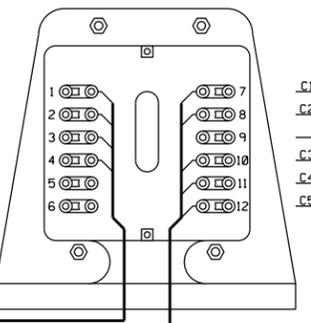
BELL #1



GATE #1

SIEMENS MODEL S-60

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 |

TO HOUSE 7C #14
 7C #6

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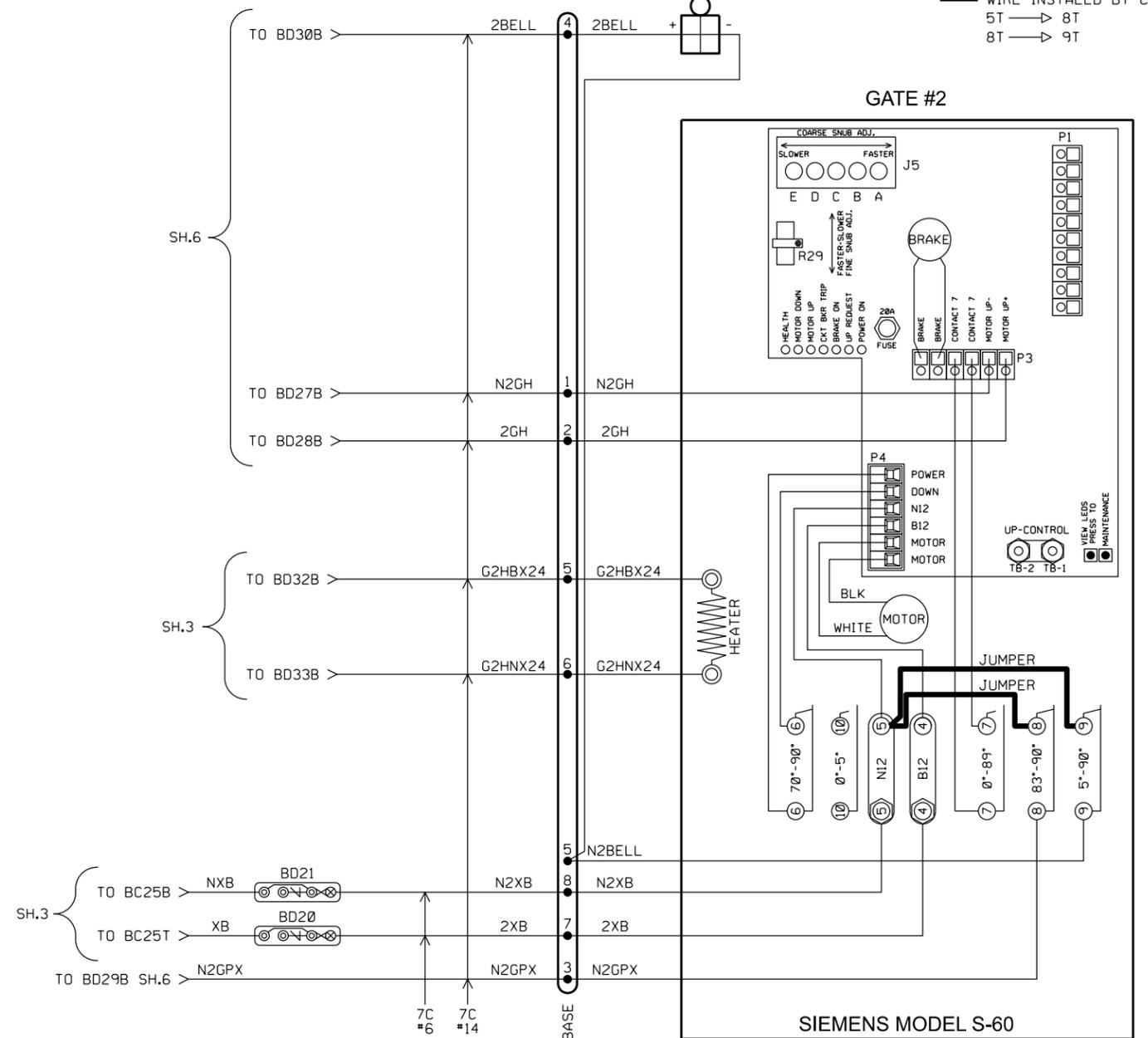
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NOTE:

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

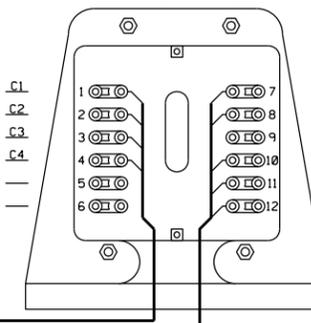
BELL #2



GATE #2

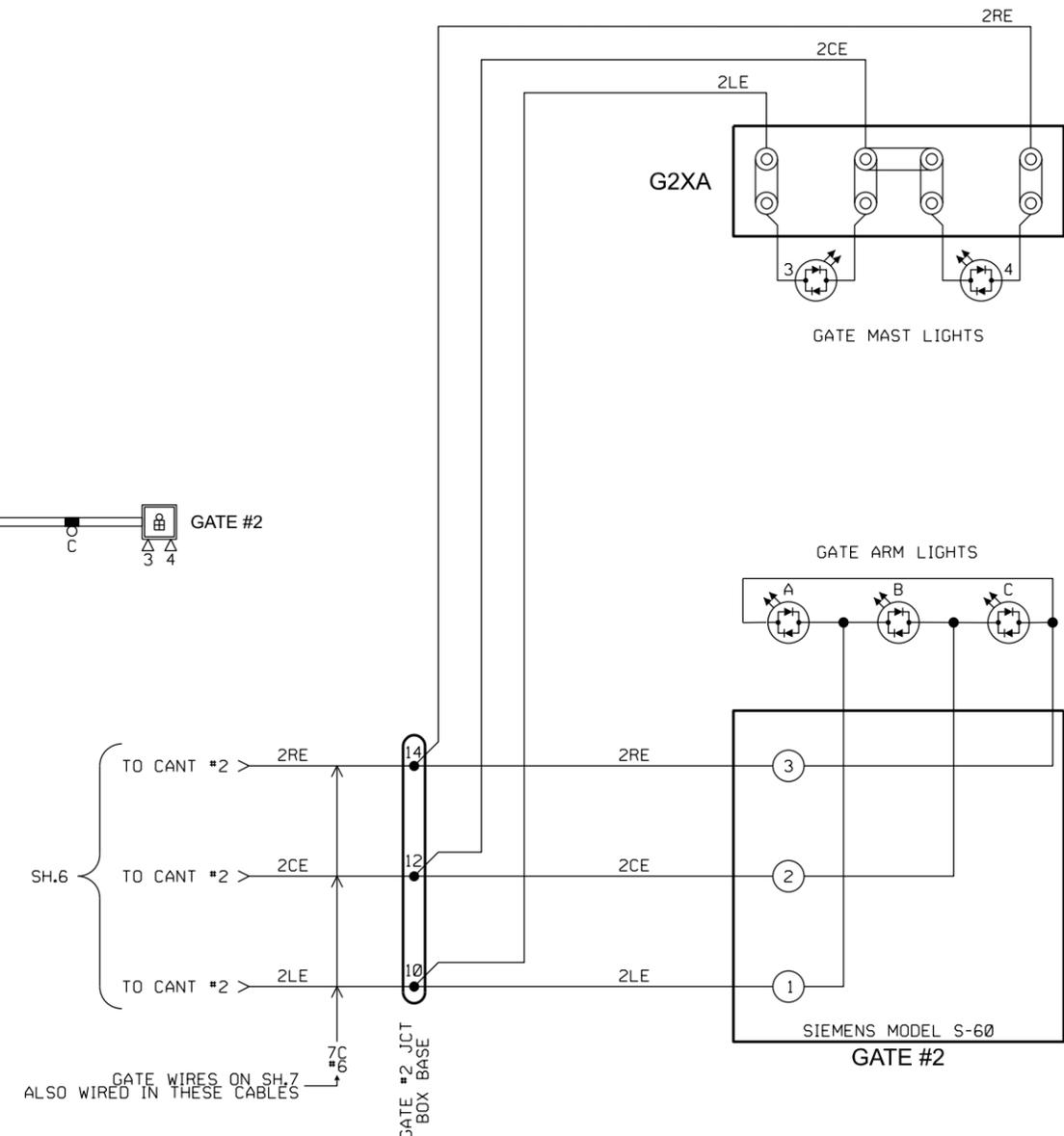
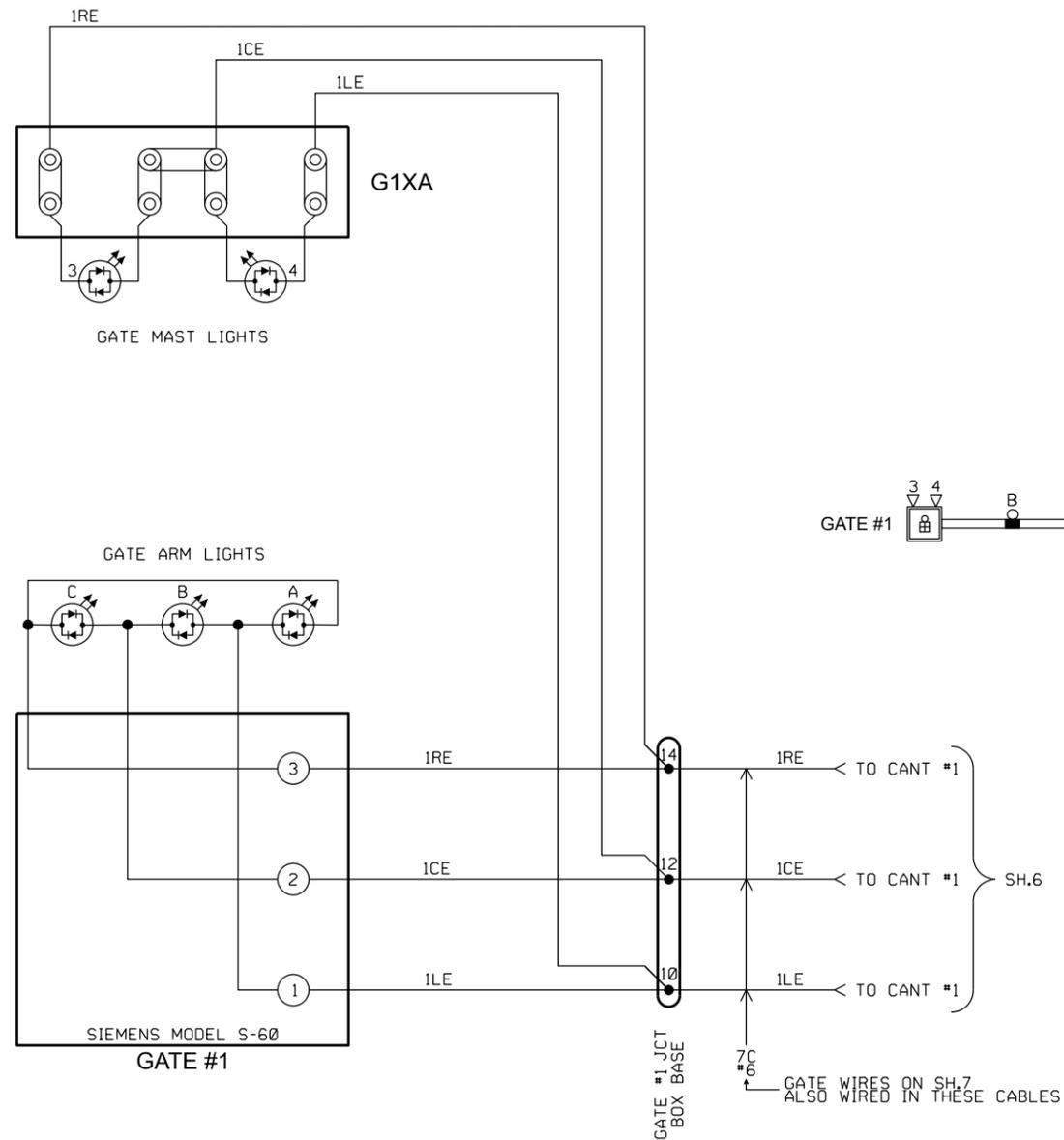
SIEMENS MODEL S-60

GATE #2 JCT BOX BASE



TO HOUSE 7C #14
 7C #6

LIGHTING WIRES ON SH.8 ALSO IN THIS CABLE



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.

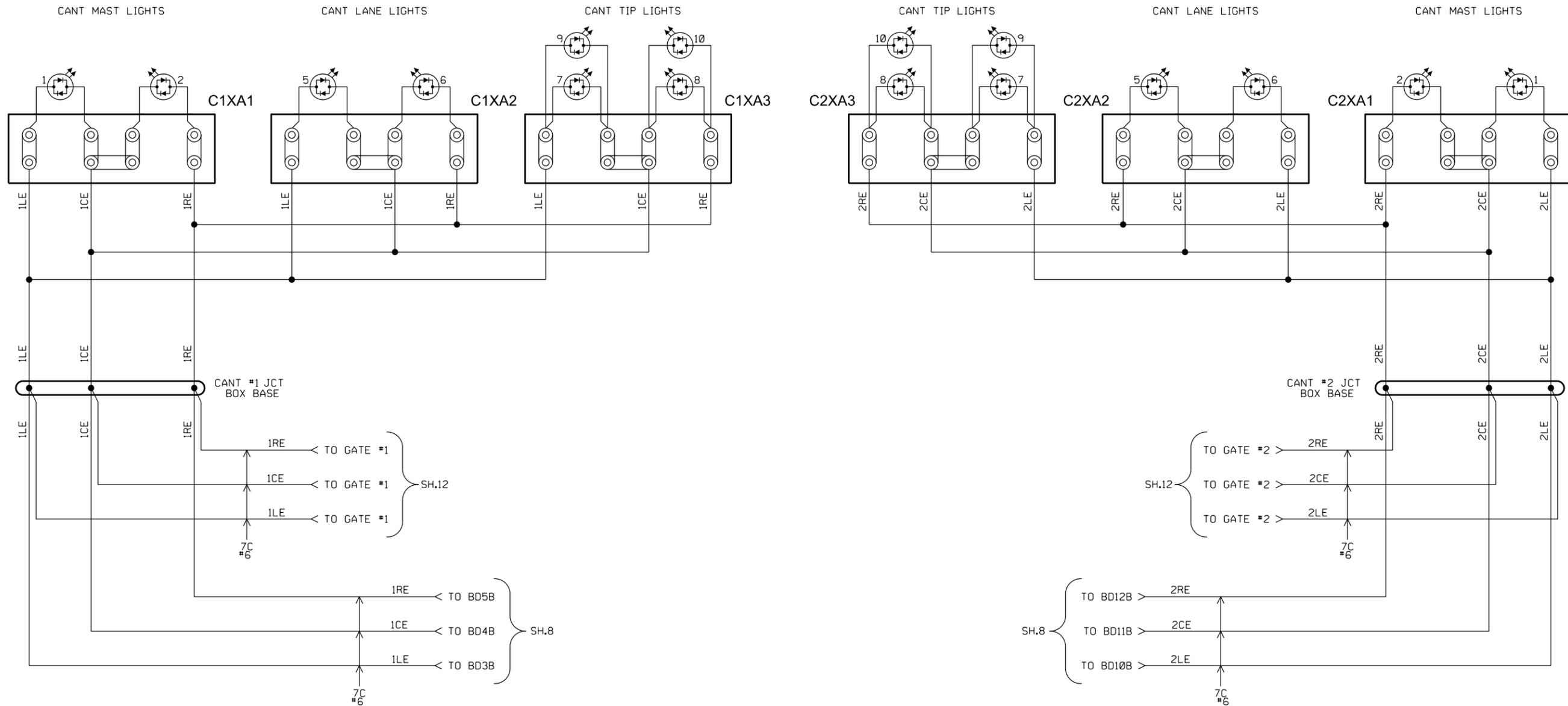
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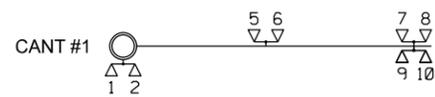
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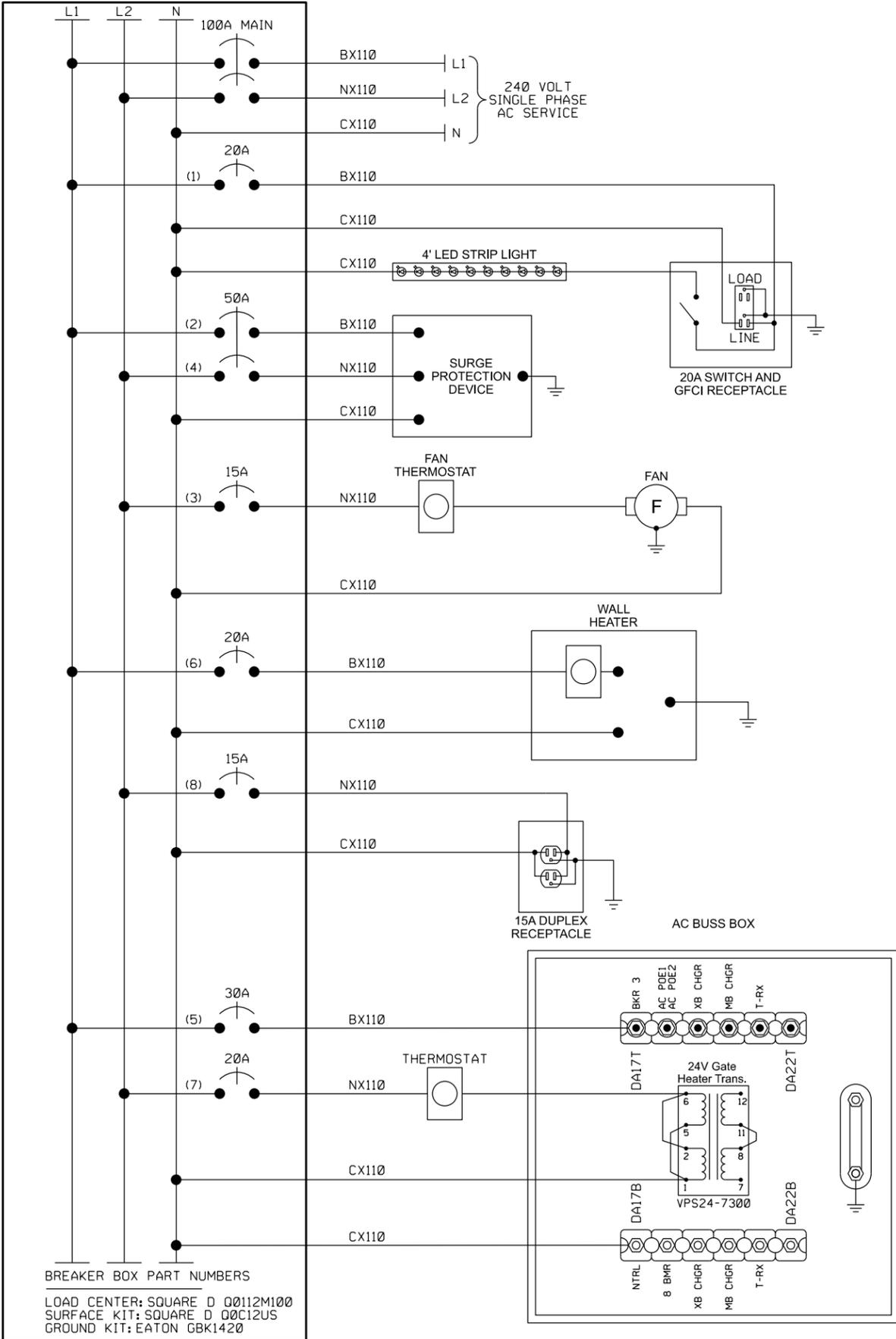
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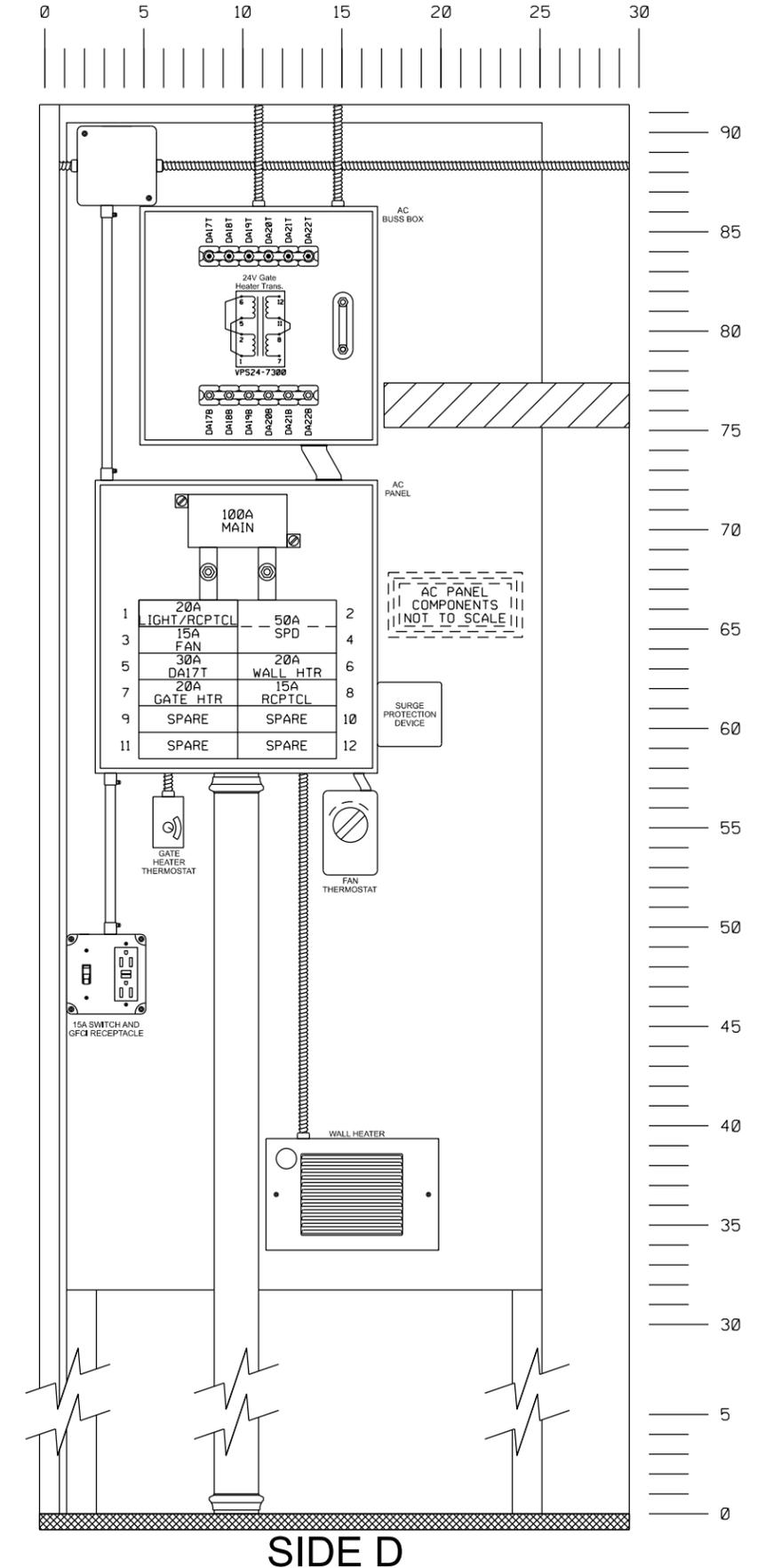
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BREAKER BOX PART NUMBERS
 LOAD CENTER: SQUARE D Q0112M100
 SURFACE KIT: SQUARE D Q0C12US
 GROUND KIT: EATON GBK1420

- NOTES:
- USE THE FOLLOWING COLOR CODE WHEN POSSIBLE:
 GRN - GREEN - SAFETY EQUIPMENT GROUND
 WHT - WHITE - CX110 (NEUTRAL)
 BLK - BLACK - NX110 (L2)
 RED - RED - BX110 (L1)
 EXCEPTIONS TO THE ABOVE COLOR CODE ARE THE PRE-WIRED, SEALED ARRESTORS UNITS MOUNTED ON THE BREAKER BOX WHICH HAVE TWO BLACK AND ONE WHITE WIRE EACH.
 - MINIMUM WIRE SIZE BY BREAKER RATING:
 10 AMP - NO. 16 AWG THHN OR THWN
 15 AMP - NO. 14 AWG THHN OR THWN
 20 AMP - NO. 12 AWG THHN OR THWN
 30 AMP - NO. 10 AWG THHN OR THWN
 50 AMP - NO. 6 AWG THHN OR THWN
 100 AMP - NO. 4 AWG THHN OR THWN
 • IF MANUFACTURER RECCOMENDATIONS DIFFER FROM ABOVE VALUES, USE MANUFACTURER VALUES.
 - GROUND FAULT INTERRUPT (GFCI) MUST BE USED ON ALL CIRCUITS SERVING EQUIPMENT OUTSIDE THE BUNGALOW. RECEPTACLE MOUNTED GFCI MAY BE USED INSTEAD OF BREAKER TYPE.
 - ALL GROUND WIRES ON THIS SHEET RUN TO BREAKER BOX GROUND BUS.



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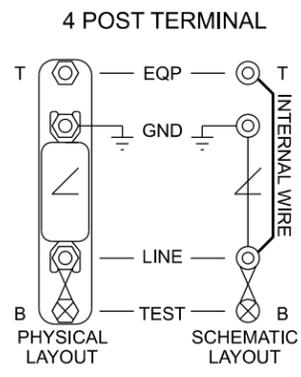


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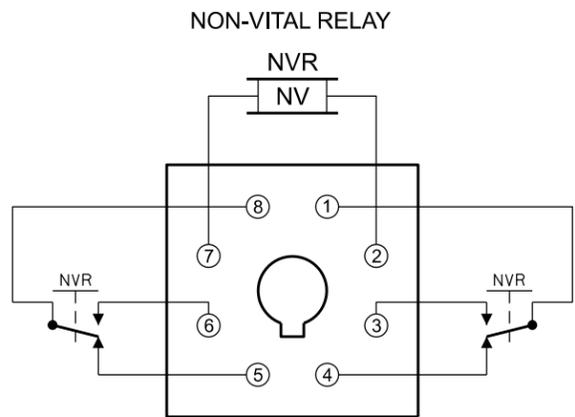
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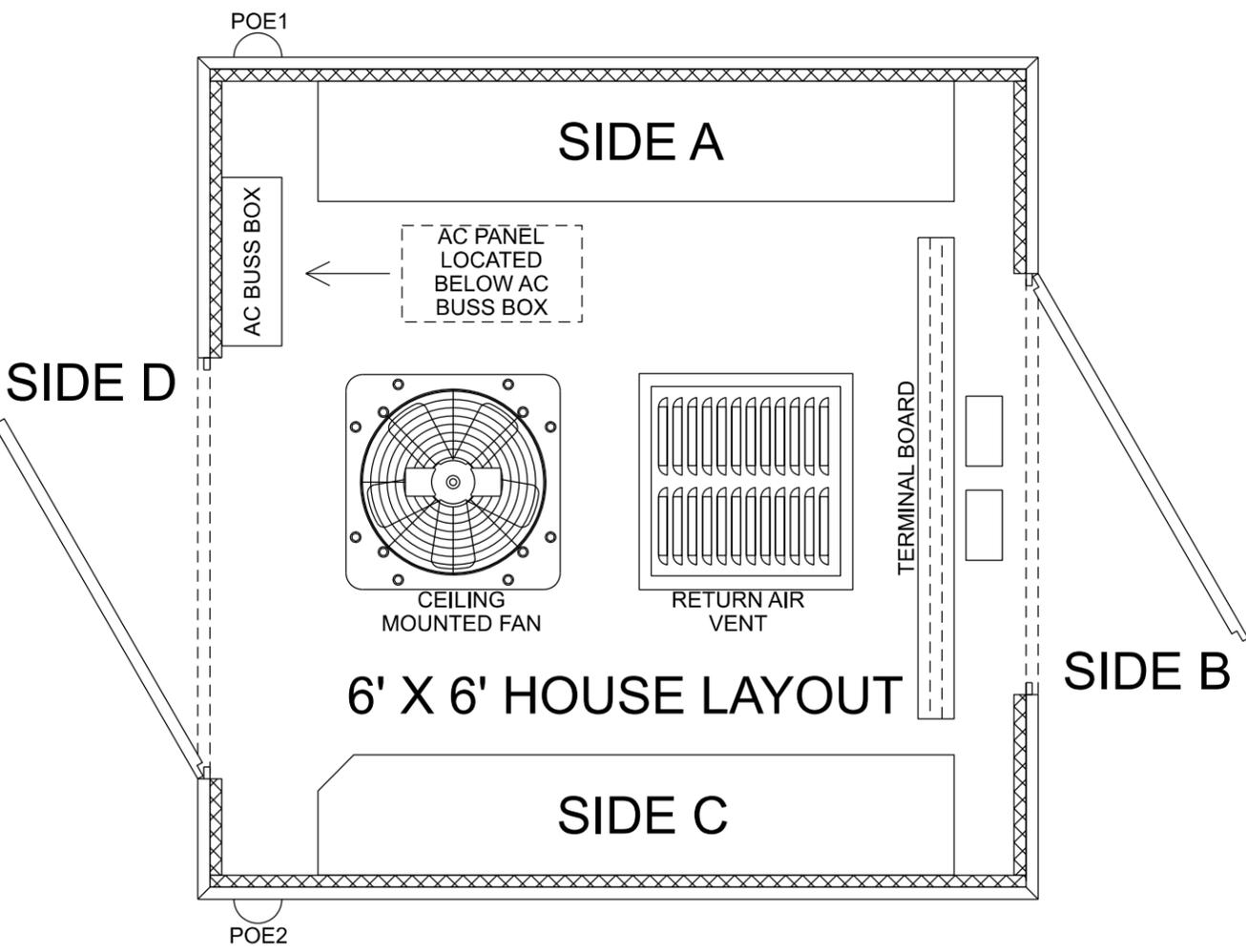
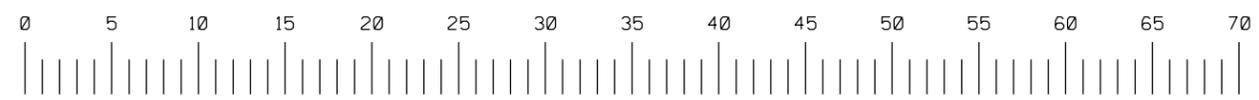
DETAIL "A"



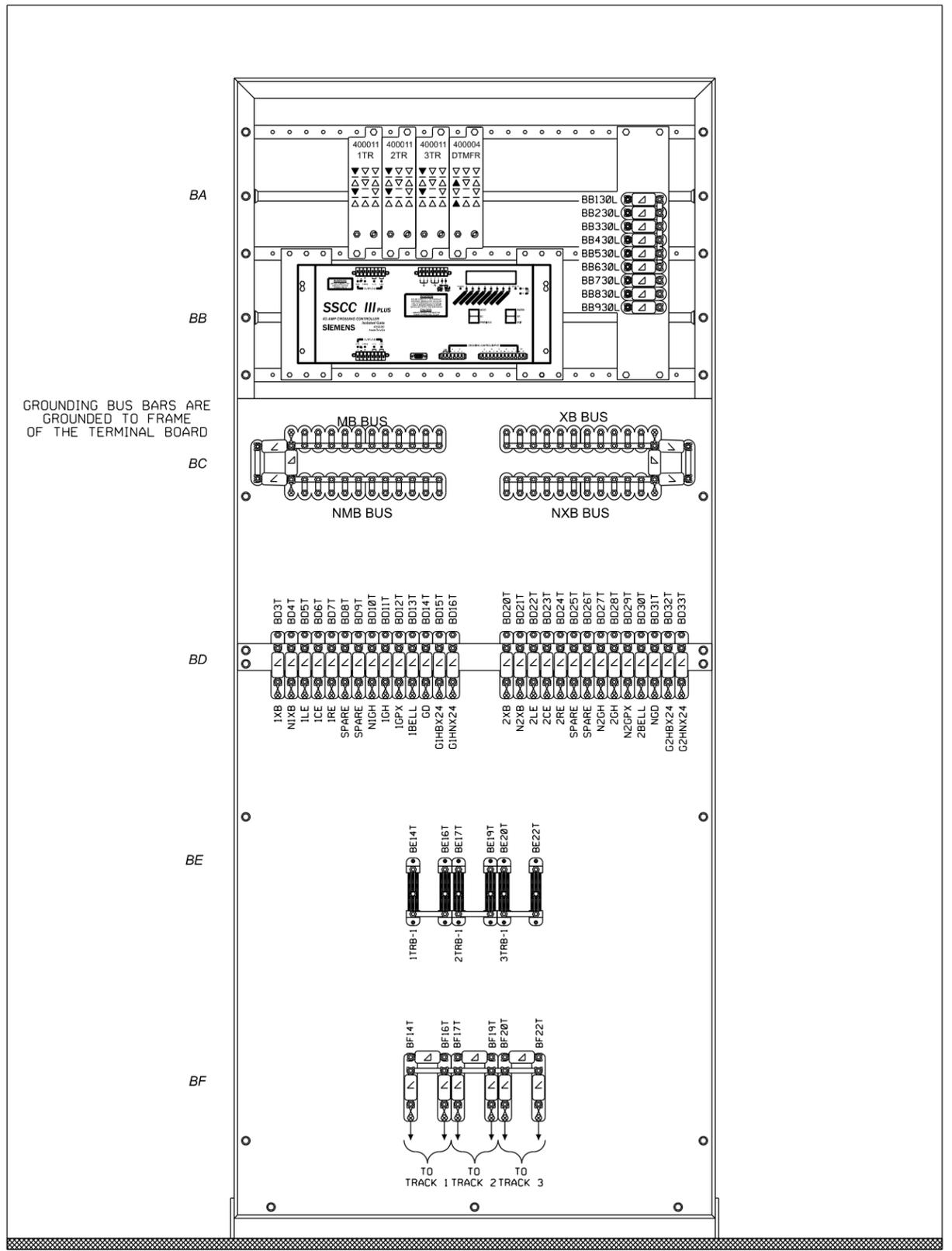
DETAIL "B"

EQUIPMENT P/N LIST

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



6' X 6' HOUSE LAYOUT



GROUNDING BUS BARS ARE GROUNDED TO FRAME OF THE TERMINAL BOARD

SIDE B

REVISIONS

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.

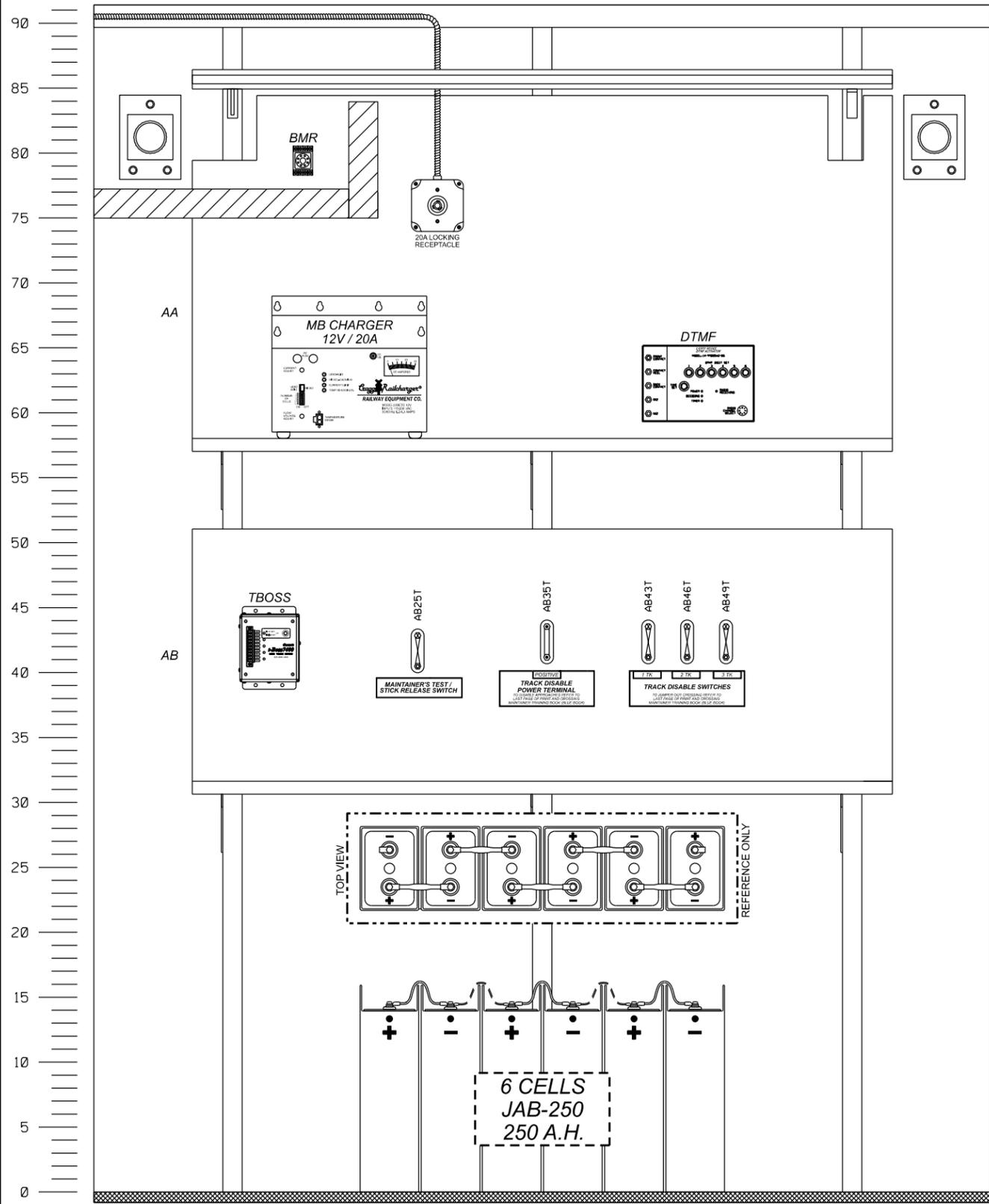


YOUNGSTOWN & SOUTHERN RAILROAD
-YSRR-

| | | |
|------------------|-----------------------------------|-----------------|
| DOT# 869 997 V | GPS: 40.803820, -80.444050 | MILEPOST# 34.30 |
| DRAWN: O.J.M | CONSITUTION BLVD - GRADE CROSSING | PRELIMINARY |
| CHECKED: C.D.L. | DARLINGTON, PA | DRAWING NO. |
| APPROVED: C.D.L. | | RCP-263 |
| DATE: 03-28-25 | DRAWN BY CDL ELECTRIC INC. | SHEET 11 OF 12 |

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

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

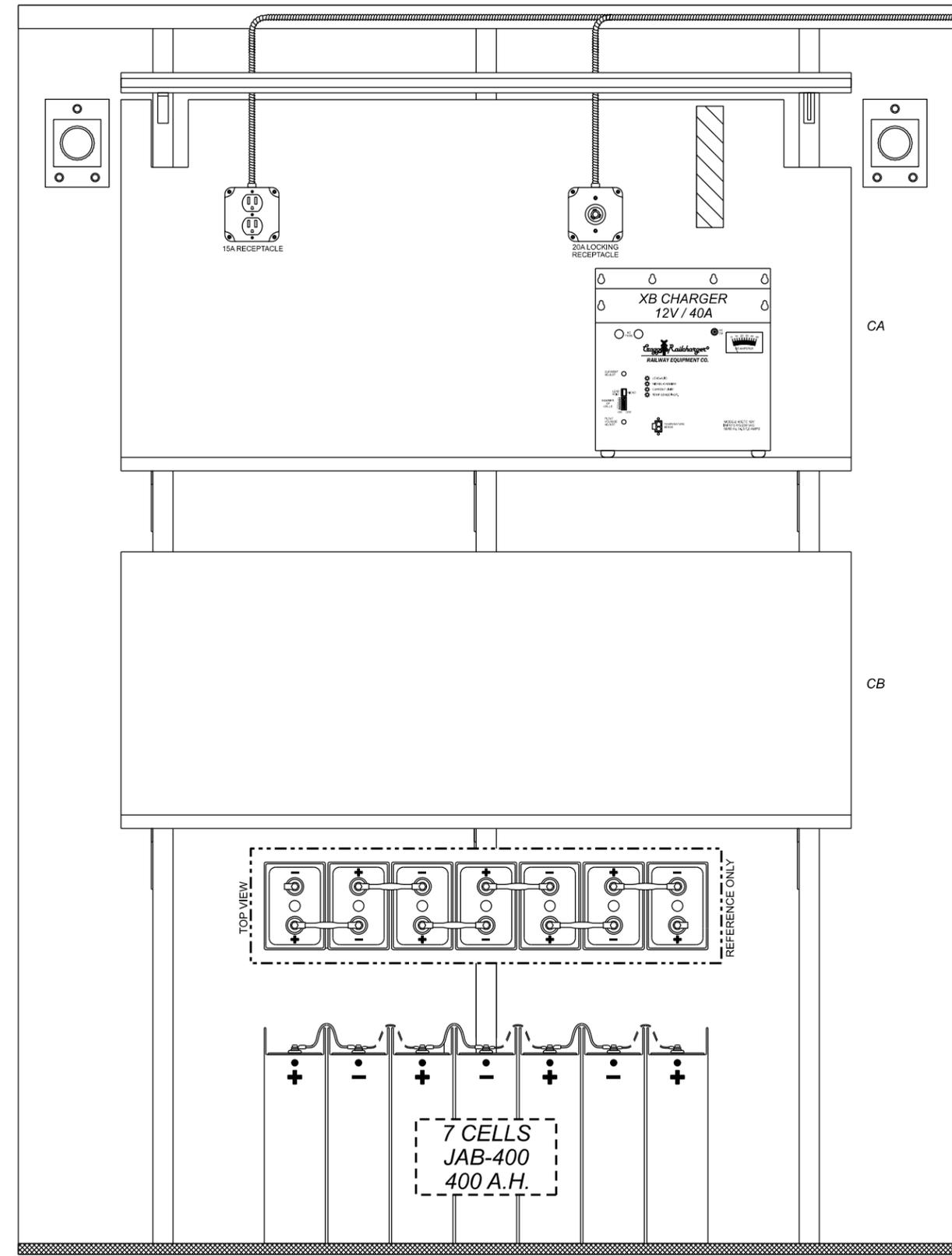


SIDE A

EQUIPMENT P/N LIST

| DESCRIPTION | PART NUMBER |
|-------------|-----------------|
| POE LIGHTS | TSL-POK-WCF-AB1 |
| BMR | 04R7317 |
| MB CHARGER | 20DTC-12V |
| MB BATTERY | JAB-250 |
| XB CHARGER | 40DTC-12V |
| XB BATTERY | JAB-400 |
| TBOSS | 10041-1000SP |
| DTMF | 14-99005V2-B6 |

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



SIDE C

REVISIONS

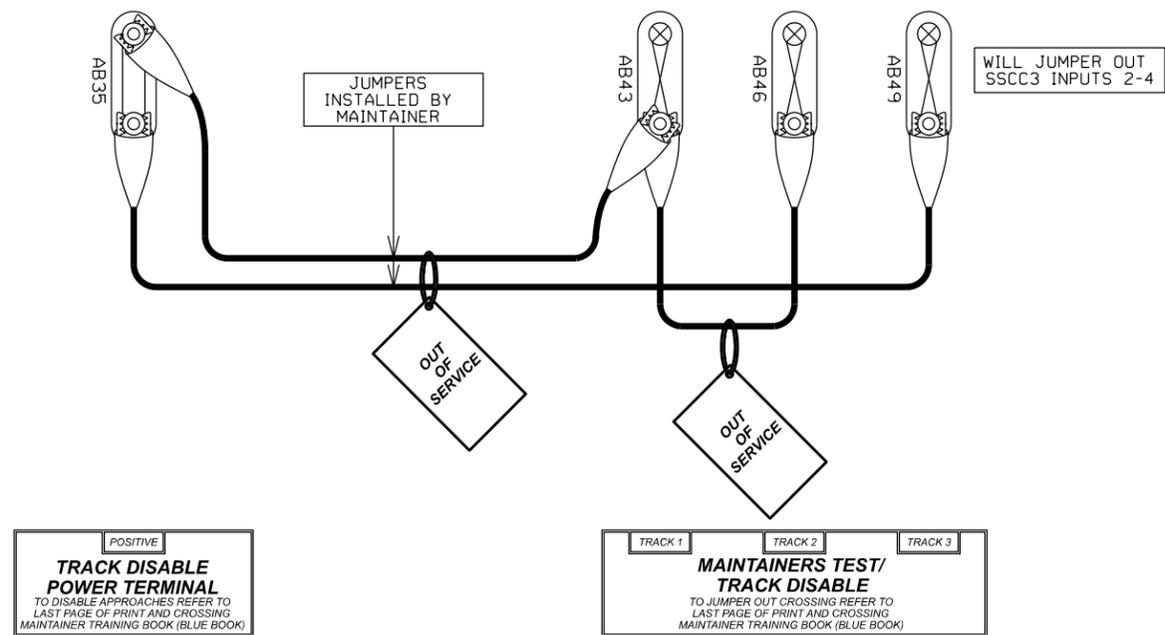
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| APPROVED: C.D.L. | | RCP-263 |
| DATE: 03-28-25 | DRAWN BY CDL ELECTRIC INC. | SHEET 12 OF 12 |

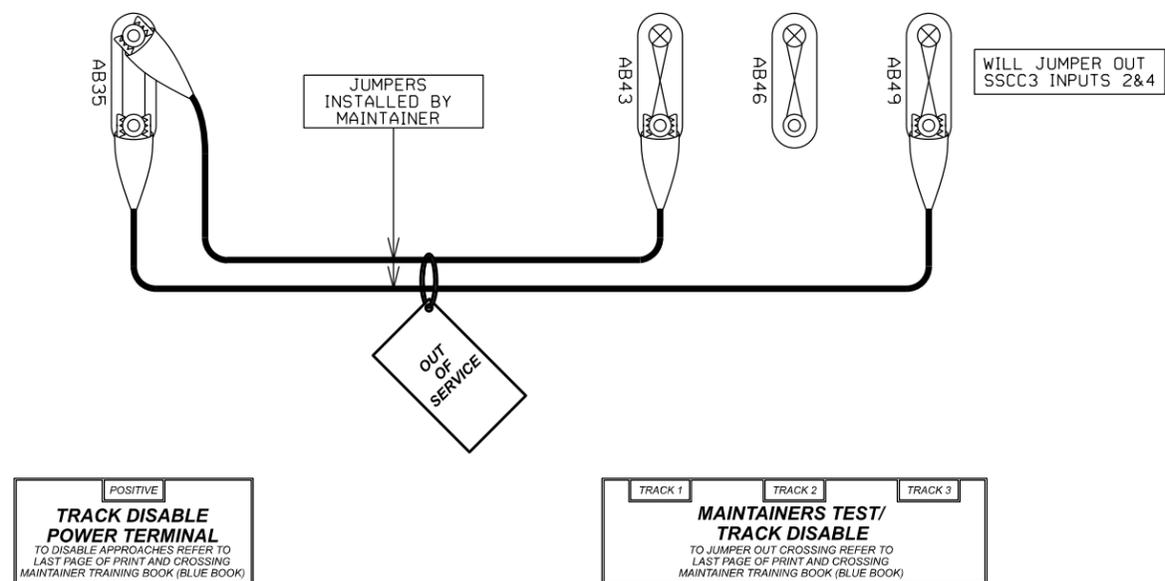
CROSSING DISABLE PROCEDURE



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)

REVISIONS

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YOUNGSTOWN & SOUTHERN RAILROAD
-YSRR-

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| APPROVED: C.D.L. | | SHEET 13 OF 12 |
| DATE: 03-28-25 | DRAWN BY CDL ELECTRIC INC. | |