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CROSSING LOCATION MAP



AERIAL VIEW OF CROSSING

REVISIONS

REV	DATE	BY	CHKD
1	10-31-23	MRM	RJC MGH

NEW XING AT SR 36
MS4000

PROJECT: 23SX-RJCPASR36
IN SERVICE: 00-00-00
PER: XX

RJC	SCC
-----	-----

CERTIFIED CORRECT PLANS

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

PA PUBLIC UTILITY COMMISSION

ATTEST *[Signature]* **01/03/2024**
Secretary **Docket: A-2023-3040993**

INDEX SHEET

 RJ Corman Railroad <small>P.O. BOX 788 101 RJ CORMAN DR NICHOLASVILLE, KY 40356</small>		
DESIGNED BY: MRM	SR 36	
DIGITIZED BY: RJC	WESTOVER, PA	
CHECKED BY: MGH	M.P. 029.17	D.O.T. 506-101M
REV 01	CRESSON SUBDIVISION	
	DATE: 10/31/23 FILE: CR02917.NX1 SHEET NX1	

TO CLEARFIELD YARD
NORTH
M.P. INCREASING

TO EAST CRESSON YARD
SOUTH
M.P. DECREASING

ROW

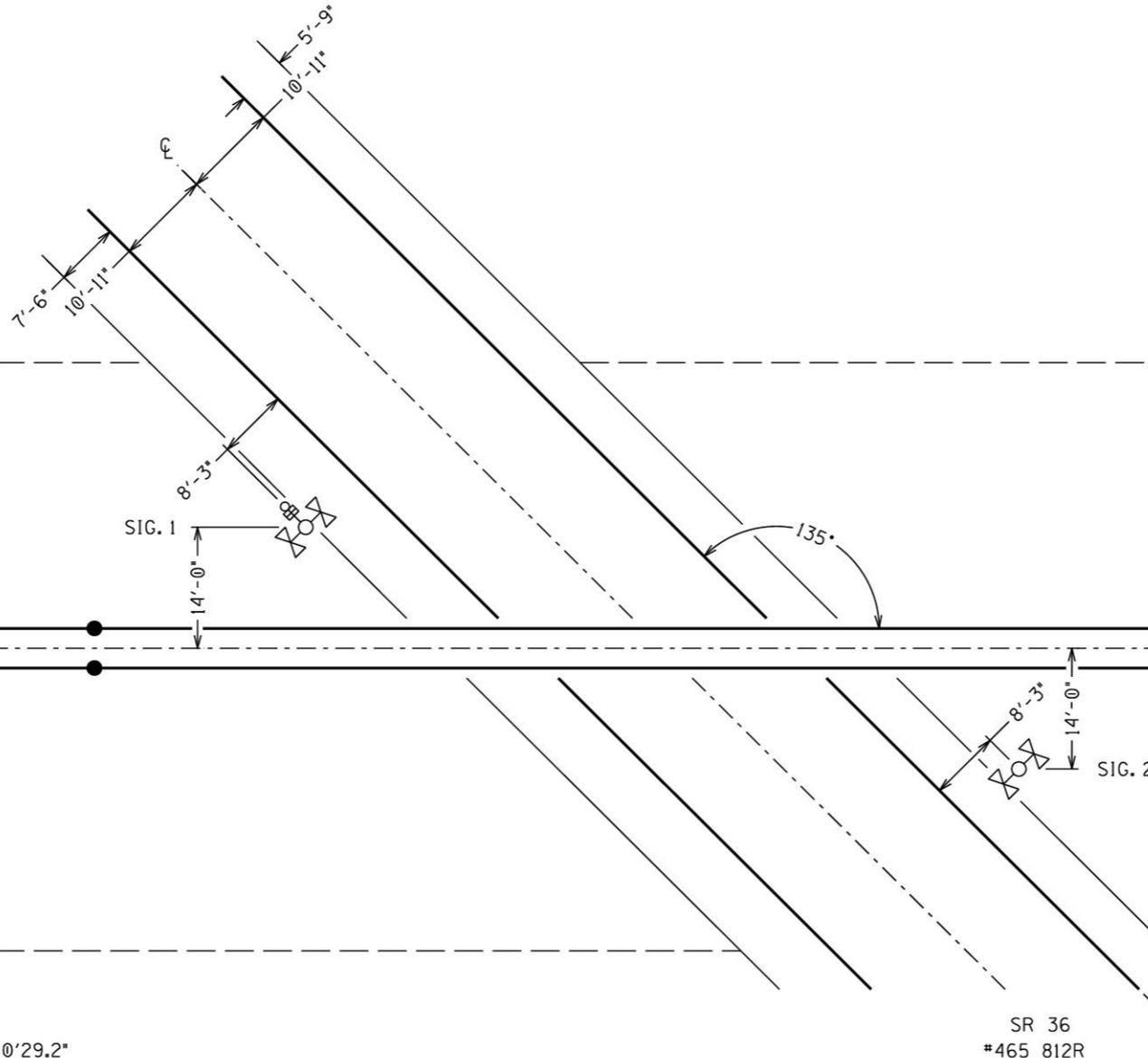
ROW

ROW

ROW

NOTES:

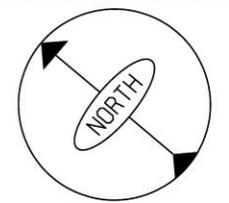
1. MAX. TRAIN SPEED 25 M.P.H.
2. LATITUDE N 40°45'38.5" LONGITUDE W 78°40'29.2"
ELEVATION 1345'
3. SIGNAL 1 TO HAVE BELL.
4. LOCATE U/G UTILITIES & CABLE BEFORE DIGGING.
5. CROSSING LOCATED IN CLEARFIELD COUNTY.
6. NEAREST STREET ADDRESS IS
679 MAIN ST
7. NEAREST INTERSECTING STREET IS
SHADY OAK LN
8. DISTANCE TO NEAREST INTERSECTING
STREET IS 575 FT.



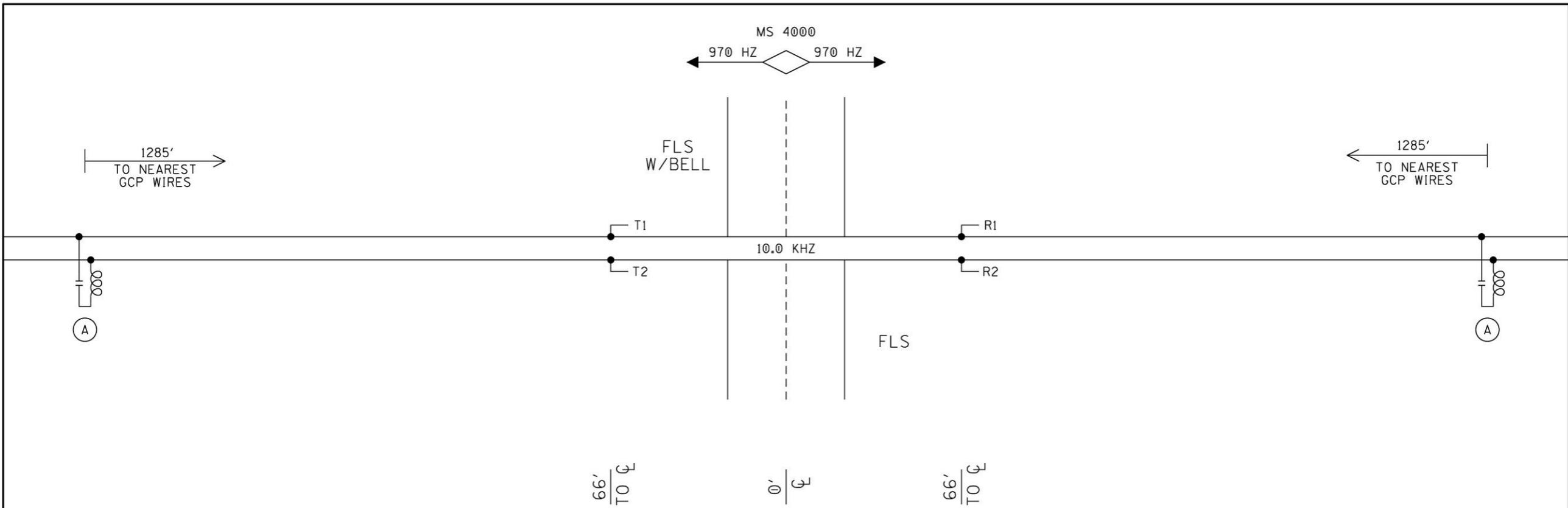
SR 36
#465 812R

AC
SERVICE

SCALE 1" = 20'
TRACK PLAN



 RJ Corman Railroad <small>P.O. BOX 788 101 RJ CORMAN DR NICHOLASVILLE, KY 40356</small>		
DESIGNED BY: MRM DIGITIZED BY: RJC CHECKED BY: MGH REV 01	SR 36 WESTOVER, PA M.P. 029.17 D.O.T. 506-101M CRESSON SUBDIVISION	DATE: 10/31/23 FILE: CR02917.01 SHEET 01

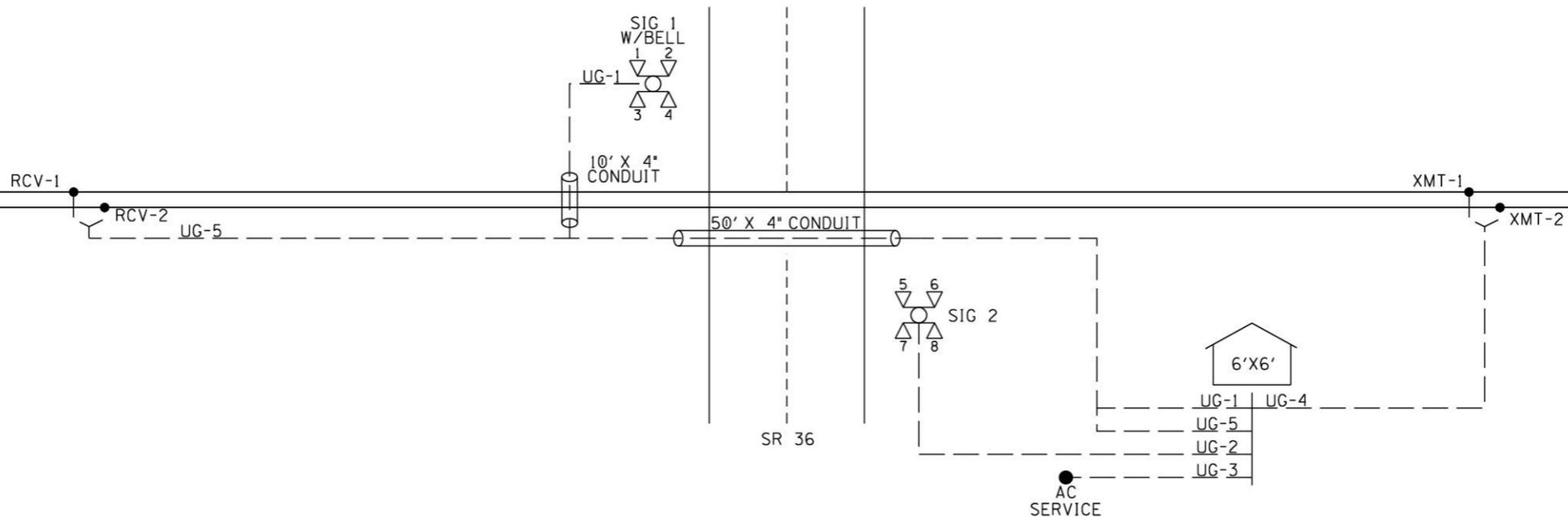


APPROACH CALCULATION INFORMATION	
STANDARD MINIMUM WARNING TIME IN SECONDS	30
ROADWAY GATE TIME IN SECONDS	00
CLEARANCE TIME IN SECONDS	00
DOT TRAFFIC LIGHT SIMULTANEOUS PREEMPT IN SECS	00
DESIGNED WARNING TIME FOR TRAINS AT T.T. SPEED	30
DOT TRAFFIC LIGHT ADVANCE PREEMPT IN SECS	00
CONTROL EQUIPMENT REACTION TIME IN SECONDS	05
DESIGNED DETECTION TIME FOR TRAINS AT T.T. SPEED	35
TIME TABLE MAXIMUM TRAIN SPEED IN MILE PER HOUR	25
BUFFER IN MILE PER HOUR	00
APPROACH SPEED FR CROSSING CALCULATION (AS)	25
APPROACH DISTANCE FORMULA: $TT \times AS \times 1.467$	1.467
APPROACH DISTANCE TO ISLAND EDGE IN FEET	1285'

(A) - NSB-1 62664-0970 (970HZ)

PROFILE

 RJ Corman Railroad <small>P.O. BOX 788 101 RJ CORMAN DR NICHOLASVILLE, KY 40356</small>		
DESIGNED BY: MRM DIGITIZED BY: RJC CHECKED BY: MGH REV 01	SR 36 WESTOVER, PA M.P. 029.17 D.O.T. 506-101M CRESSON SUBDIVISION	DATE: 10/31/23 FILE: CR02917.02 SHEET 02



UG-1-19C COMP (6C#6, 13C#14)	UG-2-19C COMP (6C#6, 13C#14)	UG-3-3CUG #2 W/#6 GND
1-L2 1-L1 1-COM 1-XB12 1-XN12 SPARE 1	2-L2 2-L1 2-COM 2-XB12 2-XN12 SPARE 1	L1 L2 NEUTRAL GND
1-GC 1-BELL GP2 1-BX110 1-NX110 SPARE 1 SPARE 2 SPARE 3 SPARE 4 SPARE 5 SPARE 6 SPARE 7 SPARE 8	2-GC 2-BELL GP GP1 2-BX110 2-NX110 SPARE 1 SPARE 2 SPARE 3 SPARE 4 SPARE 5 SPARE 6 SPARE 7	UG-4-TW, PR. #6 RCV-1 RCV-2
		UG-5-TW, PR. #6 XMT-1 XMT-2

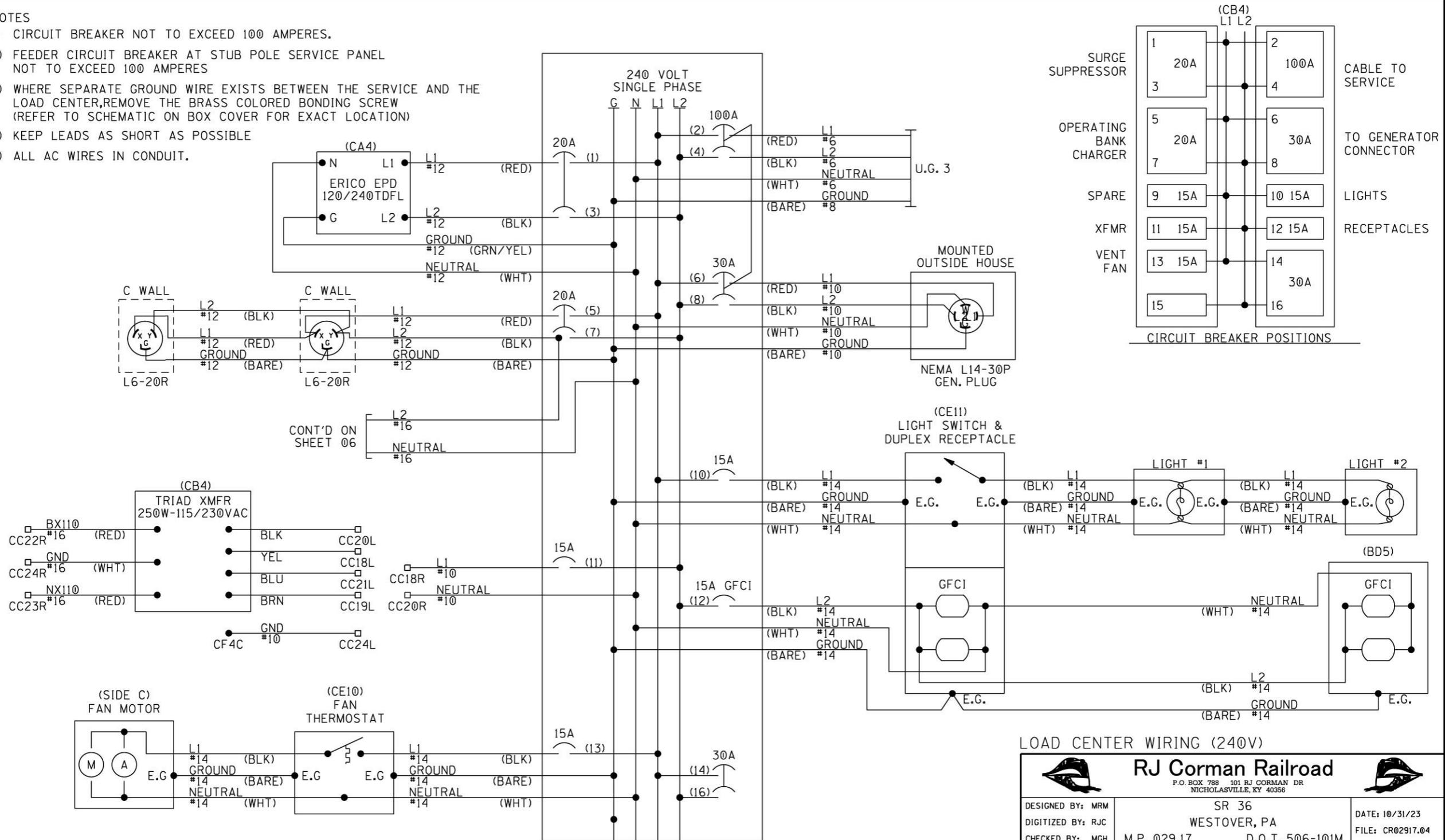
NOTE:
FOR FUTURE GATES

TRACK LAYOUT

 RJ Corman Railroad <small>P.O. BOX 788 101 RJ CORMAN DR NICHOLASVILLE, KY 40356</small> 		
DESIGNED BY: MRM	SR 36	
DIGITIZED BY: RJC	WESTOVER, PA	
CHECKED BY: MGH	M.P. 029.17	D.O.T. 506-101M
REV 01	CRESSON SUBDIVISION	
		DATE: 10/31/23 FILE: CR02917.03 SHEET 03

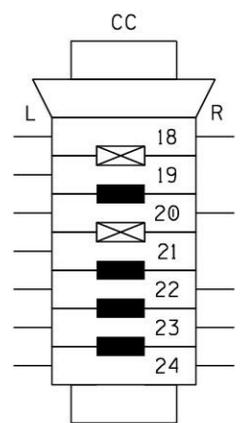
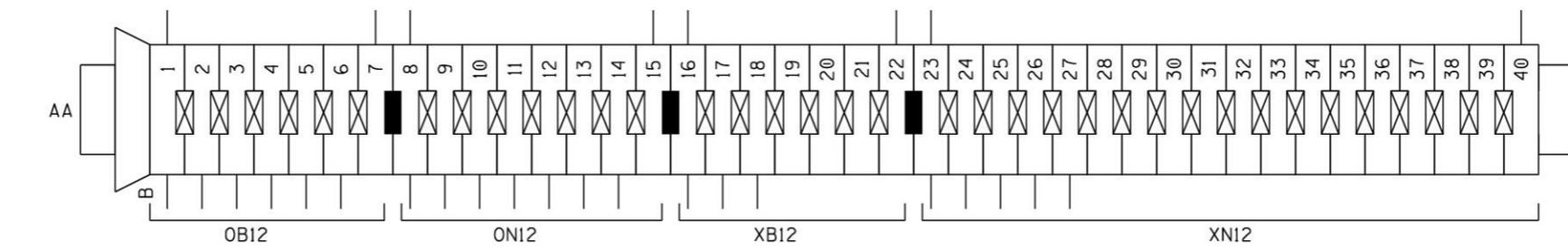
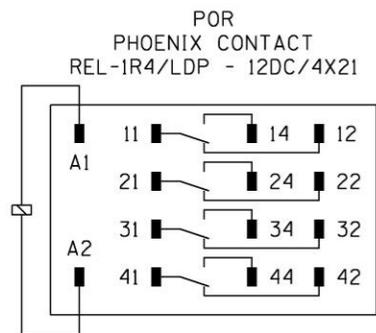
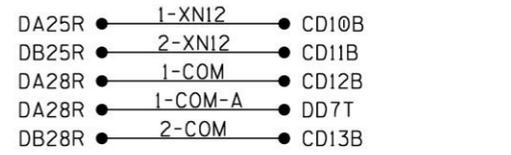
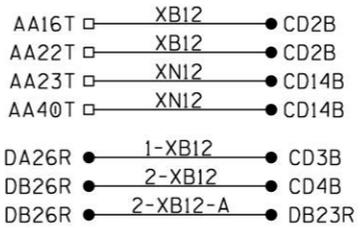
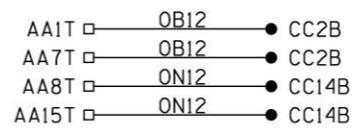
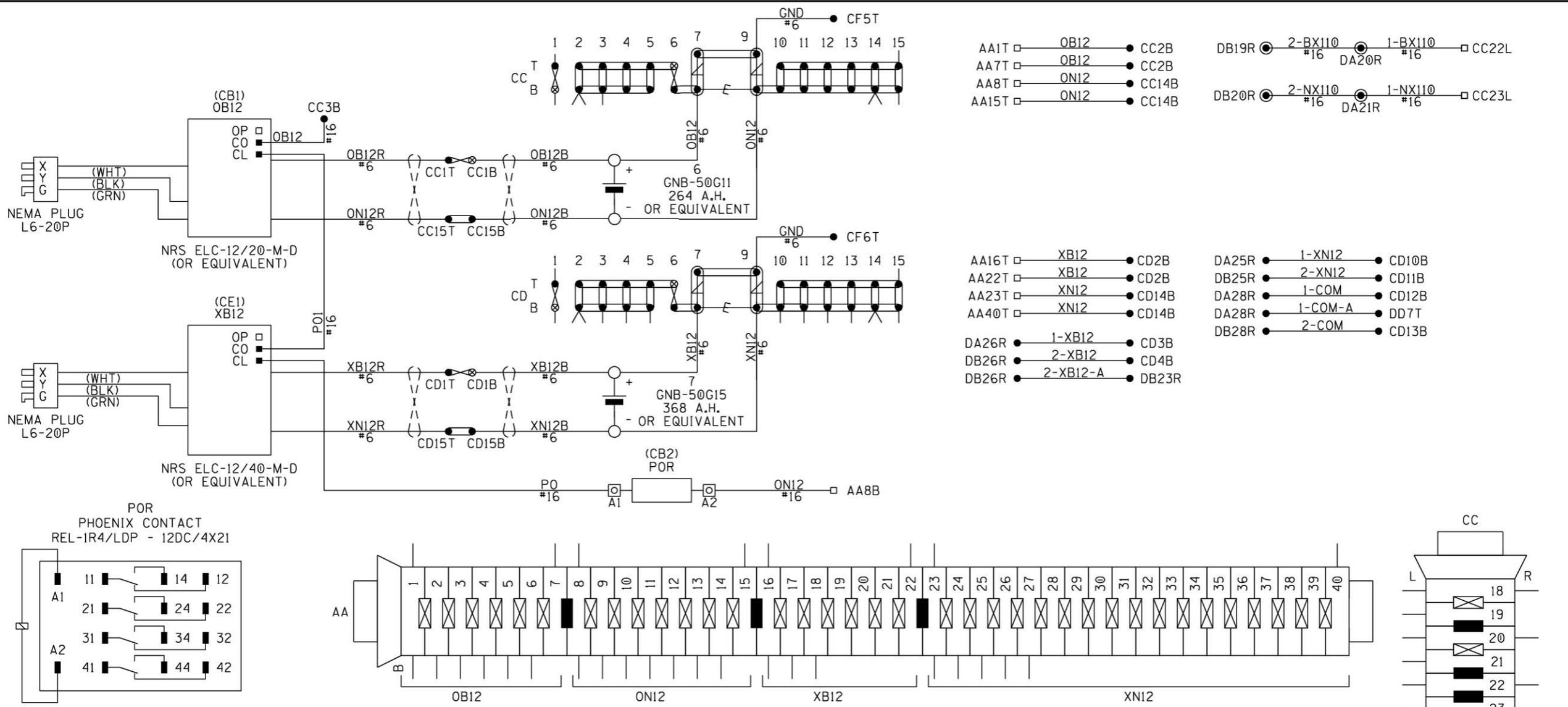
NOTES

- 1) CIRCUIT BREAKER NOT TO EXCEED 100 AMPERES.
- 2) FEEDER CIRCUIT BREAKER AT STUB POLE SERVICE PANEL NOT TO EXCEED 100 AMPERES
- 3) WHERE SEPARATE GROUND WIRE EXISTS BETWEEN THE SERVICE AND THE LOAD CENTER, REMOVE THE BRASS COLORED BONDING SCREW (REFER TO SCHEMATIC ON BOX COVER FOR EXACT LOCATION)
- 4) KEEP LEADS AS SHORT AS POSSIBLE
- 5) ALL AC WIRES IN CONDUIT.



LOAD CENTER WIRING (240V)

RJ Corman Railroad		
P.O. BOX 788 101 RJ CORMAN DR NICHOLASVILLE, KY 40356		
DESIGNED BY: MRM DIGITIZED BY: RJC CHECKED BY: MGH REV 01	SR 36 WESTOVER, PA M.P. 029.17 D.O.T. 506-101M CRESSON SUBDIVISION	DATE: 10/31/23 FILE: CR02917.04 SHEET 04



NOTES:
 ALL WIRING TO BE #10AWG UNLESS NOTED OTHERWISE.
 = 2-3/8" BLOCK
 = 1 INCH TEST LINK
 = TWIST = TEST NUT
 = INSULATED NUT
 = Heavy Duty Equalizer
 = Clearview
 = Lightning Arrester

WAGO TERMINAL 2 COND. 24-10AWG (WAGO 282-601)
 DENOTES WAGO JUMPER WAGO 282-402
 DENOTES WAGO SEPARATOR WAGO 282-337
 DENOTES WAGO END PLATE WAGO 282-317
 DENOTES WAGO END STOP WAGO 249-117

TYPICAL CELL TYPES		
CELL TYPE	AMP HOUR	VOLTAGE PER CELL
6 LA	250 MIN.	2.22V
7 LA	360 MIN.	2.22V
10 NI-CD	250 MIN.	1.43V
12 NI-CD	360 MIN.	1.43V

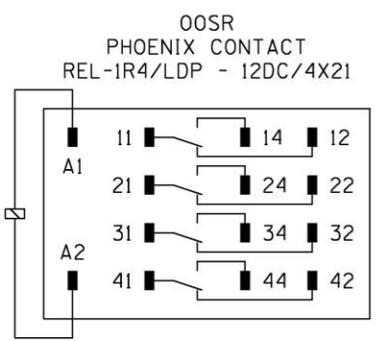
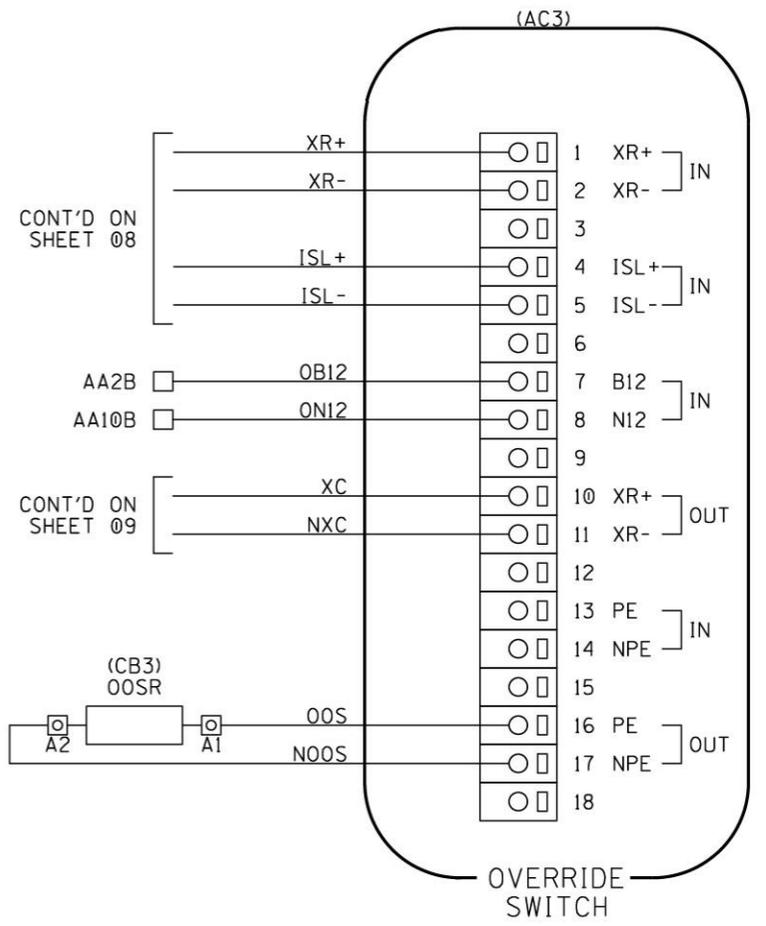
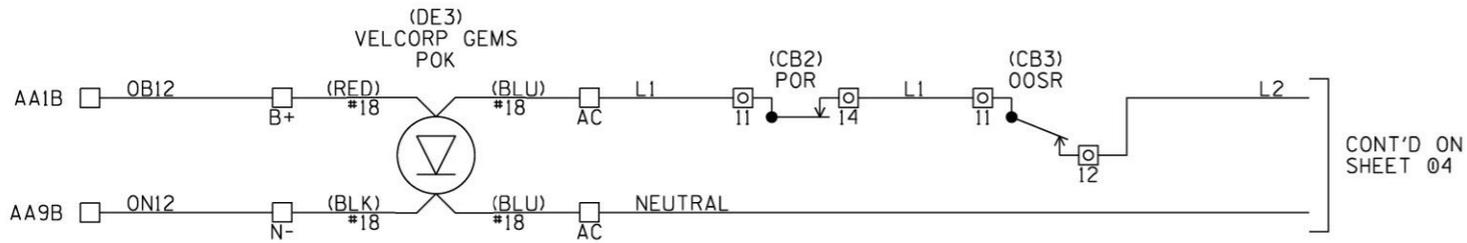
DC POWER

RJ Corman Railroad
 P.O. BOX 788 101 RJ CORMAN DR
 NICHOLASVILLE, KY 40356

DESIGNED BY: MRM
 DIGITIZED BY: RJC
 CHECKED BY: MGH
 REV 01

SR 36
 WESTOVER, PA
 M.P. 029.17 D.O.T. 506-101M
 CRESSON SUBDIVISION

DATE: 10/31/23
 FILE: CR02917.05
 SHEET 05



NOTES:
1. ALL WIRING TO BE #16AWG
UNLESS NOTED OTHERWISE.

PO LIGHT CIRCUIT

 RJ Corman Railroad <small>P.O. BOX 788 101 RJ CORMAN DR NICHOLASVILLE, KY 40356</small> 		
DESIGNED BY: MRM DIGITIZED BY: RJC CHECKED BY: MGH REV 01	SR 36 WESTOVER, PA M.P. 029.17 D.O.T. 506-101M CRESSON SUBDIVISION	DATE: 10/31/23 FILE: CR02917.06 SHEET 06

MAIN PROGRAM MENU

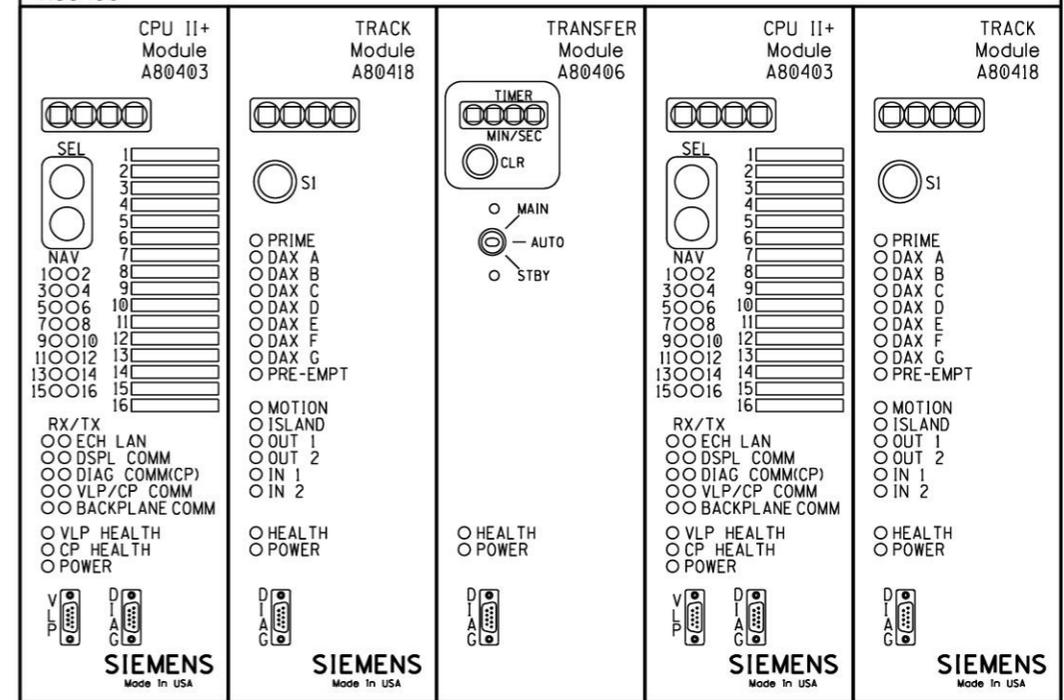
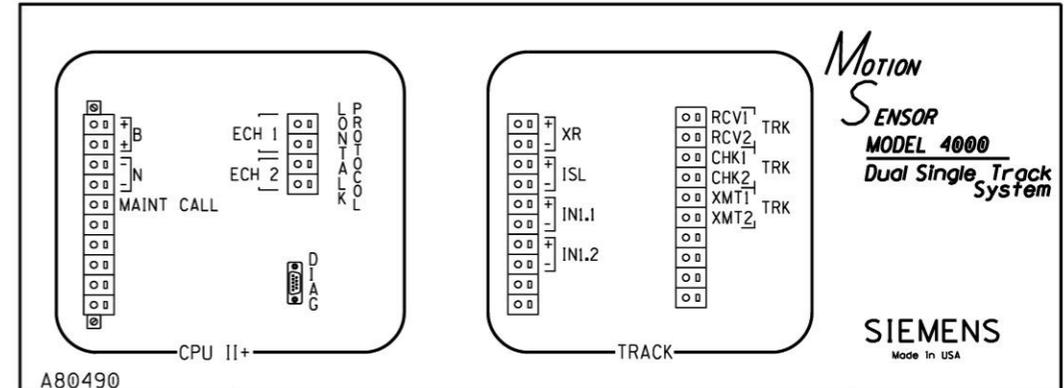
**	PARAMETER	VALUE
1	TEMPLATE	↓ MTF-MS MOTION SENSOR
1A	SET TEMPLATE DEFAULTS	(YES ON INITIAL SETUP)
MS 4000 CONFIGURATION		
2	APPR FREQUENCY	↓ 970 HZ
3	APPR TRANSMIT LEVEL	# ☆ HIGH
4	UNI/BI/SEM-BIDIRNL	↓ BIDIRNL
5	DIRECTIONALLY WIRED	↓ ☆ NO
6	MS PICKUP DELAY	↓ ☆ 15 SEC
7	UAX USED	↓ NO
7A	* PRIME UAX PICKUP	↓ ☆ 5 SEC
8	ISLAND USED	↓ ☆ INTERNAL
8A	* ISL FREQUENCY	↓ 10.0 KHZ
8B	* ISL PICKUP DELAY	↓ (2s+) 3 SECONDS
9	IN 1.1	↓ NOT USED
10	IN 1.2	↓ NOT USED
11	PRIME MS/GCP MODE	↓ PRED
11A	* PRIME WARNING TIME	↓ 35 SEC
ADVANCED		
12	POSITIVE START	↓ ☆ OFF
13	SUDDEN SHUNT DET USED	↓ ☆ NO
14	LOW EZ DET USED	↓ ☆ NO
15	MS SENSITIVITY LEVEL	# ☆ 36
16	COMPENSATION LEVEL	# ☆ 1300
17	LOW EX ADJUSTMENT	# ☆ 39
18	INBOUND PS SENSITIVITY	# ☆ HIGH
19	SPEED LIMITING USED	# ☆ YES
20	OUTBOUND FALSE ACT LVL	# ☆ NORMAL
OTHER		
21	OOS TIMEOUT	# ☆ 1 HRS
22	DAYLIGHT SAVINGS TIME	# ☆ ON
23	EZ/EX LOGGING	# ☆ CHANGE
24	EZ/EX POINT CHANGE	# ☆ 3
25	ATCS SITE ID	↓ ☆ 762010010016

CONTINUE MAIN PROGRAM MENU

**	PARAMETER	VALUE
26	LOCATION	
26A	* DOT NUMBER	# 506 101M
26B	* MILE POST	# 29.17
26C	* SITE NAME	# SR 36

MCF AND OCCN

MCF NAME	GCP-T6X-02-9.mcf
OCCN	6E7DA199



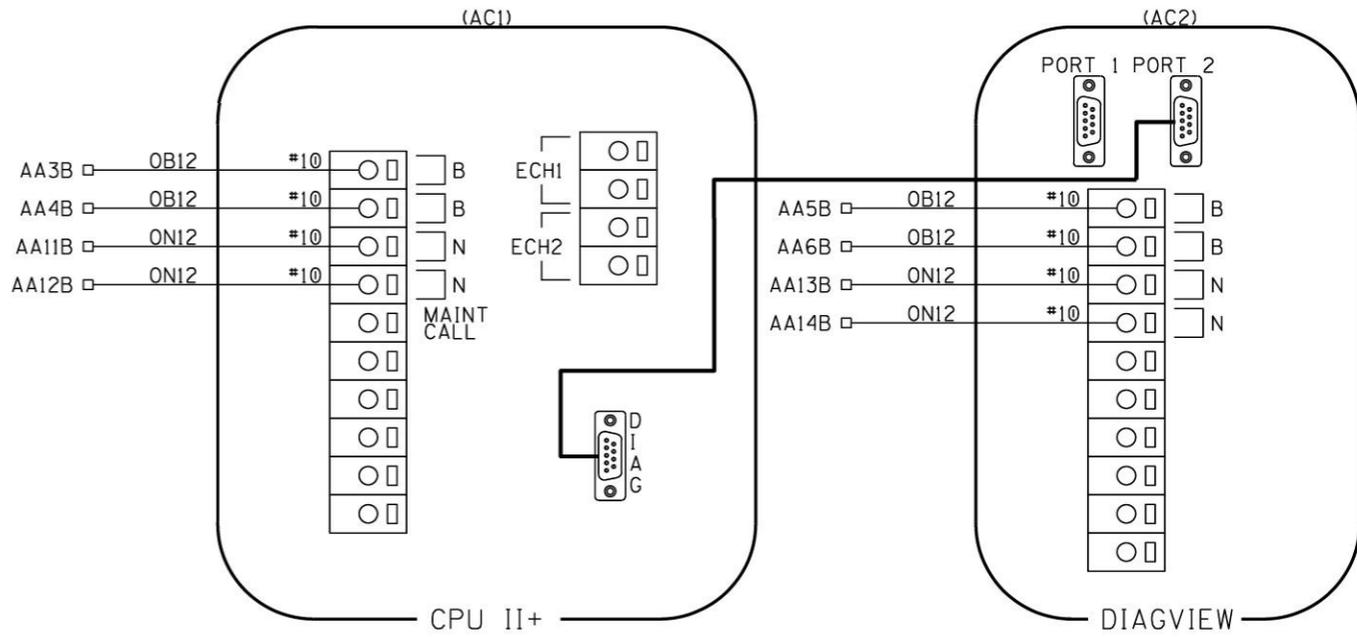
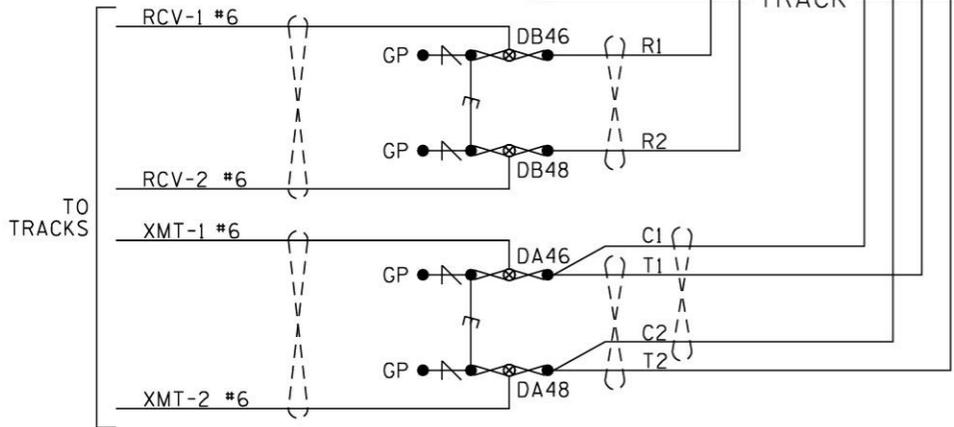
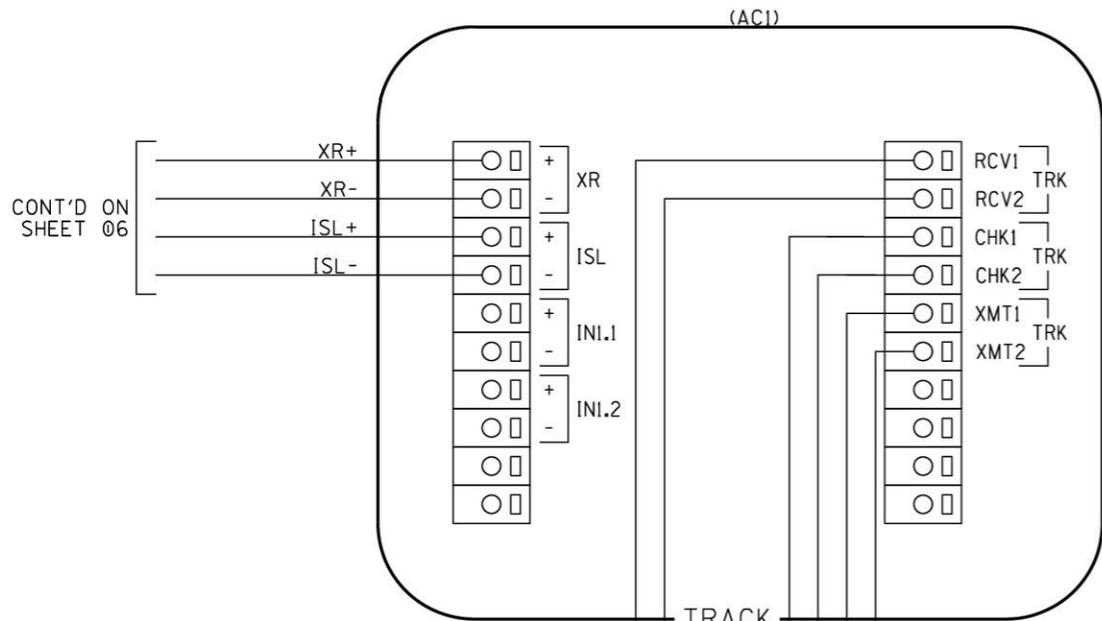
(AC1)

NOTES:

1. * AVAILABLE WHEN PRIOR PARAMETER SELECTED
2. # SET BY FIELD AS REQUIRED
3. ☆ DEFAULT SETTING
4. ↓ IMPACTS OCCN
5. ** STEP SEQUENCE WHEN USING DIAGNOSTIC TERMINAL (DT) VER. 5.7.3 TO SET PROGRAM PARAMETERS. ALPHA NUMERIC STEPS ARE SUB MENUS OF PREVIOUS STEP.

MS 4000 GCP

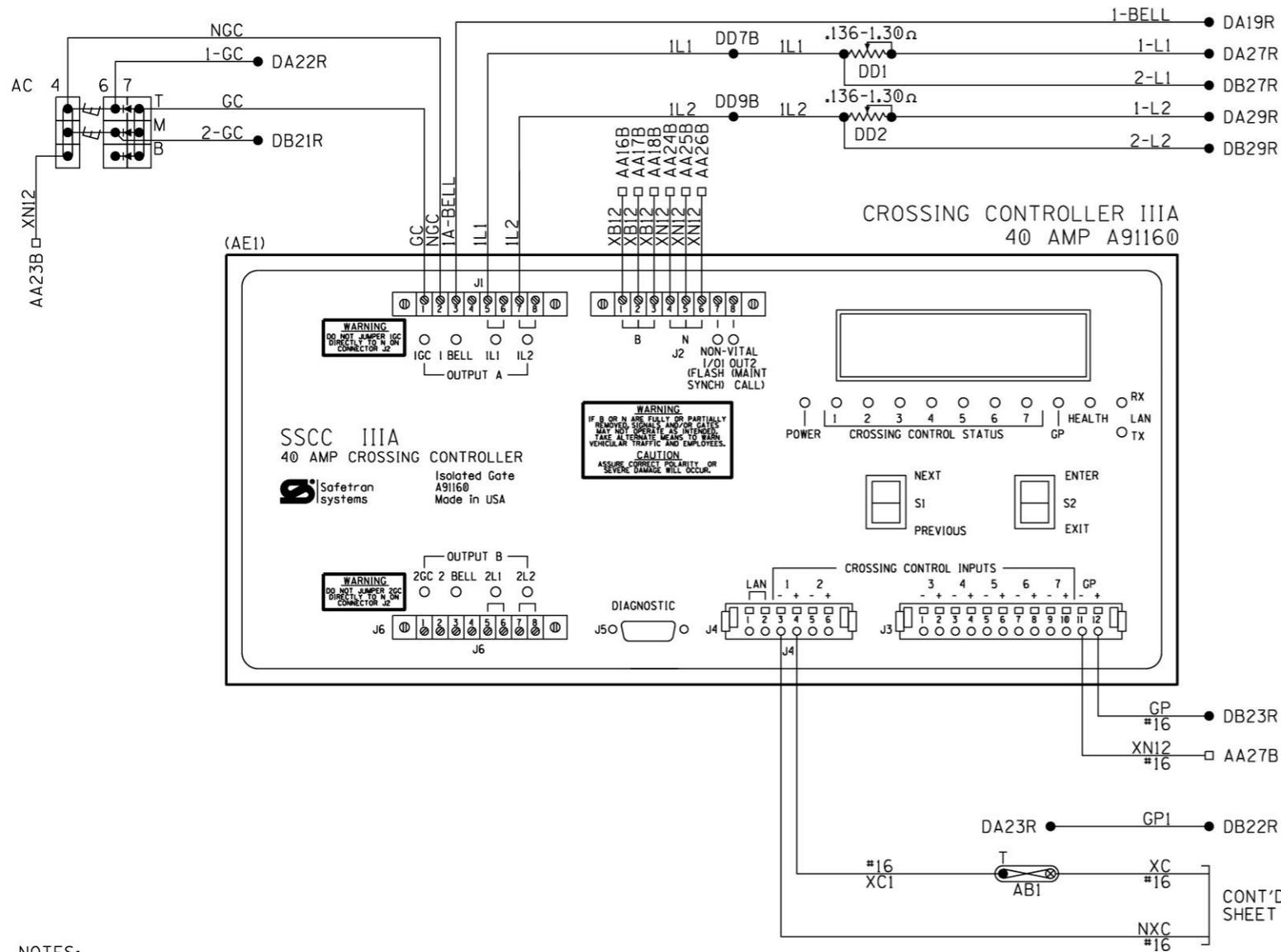
<p>RJ Corman Railroad P.O. BOX 788 101 RJ CORMAN DR NICHOLASVILLE, KY 40356</p>		
DESIGNED BY: MRM	SR 36	DATE: 10/31/23
DIGITIZED BY: RJC	WESTOVER, PA	FILE: CR02917.07
CHECKED BY: MGH	M.P. 029.17 D.O.T. 506-101M	SHEET 07
REV 01	CRESSON SUBDIVISION	



- NOTES:
 ALL WIRING TO BE #16AWG
 UNLESS NOTED OTHERWISE.
- = 2-3/8" BLOCK
 - = Heavy Duty Equalizer
 - = TEST LINK
 - = TEST NUT
 - = Lightning Arrester
 - = TWIST

TRACK CONNECTIONS

RJ Corman Railroad <small>P.O. BOX 788 101 RJ CORMAN DR NICHOLASVILLE, KY 40356</small>		
DESIGNED BY: MRM DIGITIZED BY: RJC CHECKED BY: MGH REV 01	SR 36 WESTOVER, PA M.P. 029.17 D.O.T. 506-101M CRESSON SUBDIVISION	DATE: 10/31/23 FILE: CR02917.08 SHEET 08



MCF PART NUMBER	MCF NAME	MCF CRC
9V610-A001F	BASIC.MCF	1D240612

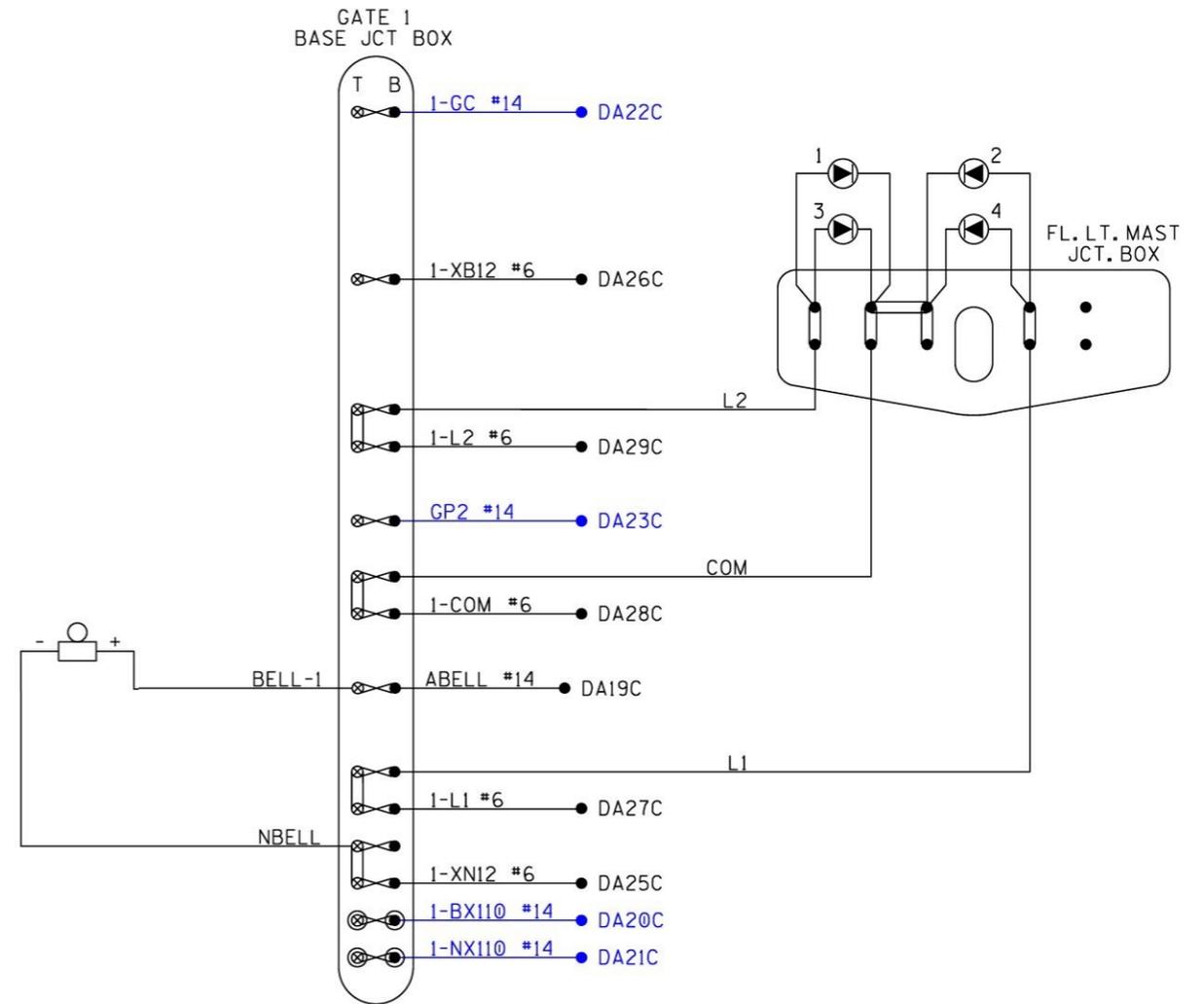
PROGRAM		
SUBMENU	NOTES	SETTINGS
FLASH RATE:	30-70 FLASH/MIN DEF.=50	50
GATES USED:	YES/NO DEF.=YES	YES
IGC DELAY:	3-20 SEC. DEF.=4	4 SEC.
GATE RISING BELL:	ON/OFF DEF.=ON	OFF
MIN ACTIVATE TMR:	0-60 SEC. DEF.=0	20 SEC.
ENABLED INPUTS:	1 THRU 1 TO 7 DEF.=1 THRU 7	1 THRU 1
TIME:	24 HOUR FORMAT	
DATE:	YYYY MMM DD	
DAYLIGHT SAVING:	ENABLED/DISABLED DEF.=DISABLED	ENABLED
PASSWORD:	ENABLED/DISABLED DEF.=DISABLED	DISABLED

CONFIGURE		
SUBMENU	NOTES	SETTINGS
LOS TIMERS:	0-20 SEC. INPUTS 1-7 DEF.=0	INPUT 1: 5
		INPUT 2: 0
		INPUT 3: 0
		INPUT 4: 0
		INPUT 5: 0
		INPUT 6: 0
		INPUT 7: 0
ATCS ADDRESS:	DEF.=700000000000	700000000000
LOW BATTERY:	9.0-15.0 VOLTS OR DISABLED DEF.=DISABLED	9.0 VOLTS
AUX I/O:	NONVITAL OUTPUT, FLASH SYNC IN, FLASH SYNC OUT DEF.=NONVITAL OUTPUT	NONVITAL OUTPUT
DETECT LAMP NEUTRAL WIRE:	YES/NO DEF.=YES	NO

CONT'D ON SHEET 06

CROSSING CONTROLLER HOOK-UP

 RJ Corman Railroad P.O. BOX 788 101 RJ CORMAN DR NICHOLASVILLE, KY 40356		
DESIGNED BY: MRM DIGITIZED BY: RJC CHECKED BY: MGH REV 01	SR 36 WESTOVER, PA M.P. 029.17 D.O.T. 506-101M CRESSON SUBDIVISION	DATE: 10/31/23 FILE: CR02917.09 SHEET 09



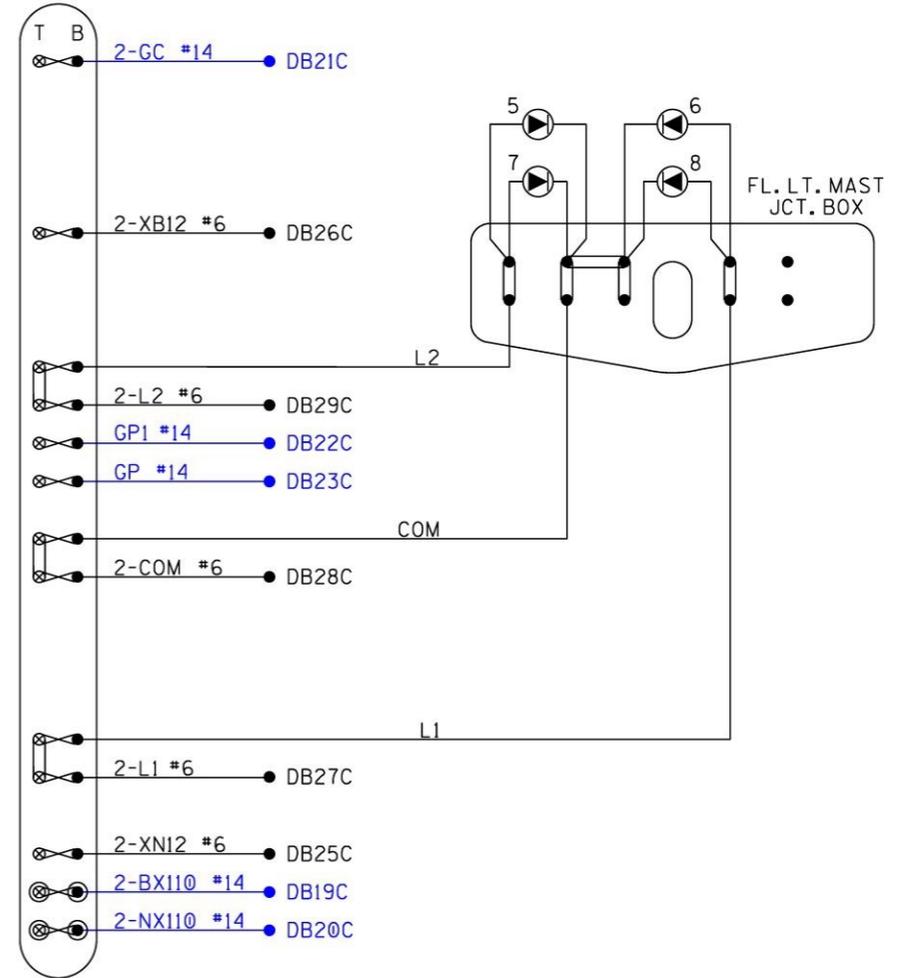
NOTES:

1. ALL WIRING #10 AWG UNLESS NOTED OTHERWISE
 2. ADD JUMPERS IN GATE SHOWN IN BOLD.
 3. FOR FUTURE GATES
- = 1 INCH TEST LINK
 = TEST NUT

FLASHER CIRCUITS SIGNAL 1

	RJ Corman Railroad <small>P.O. BOX 788 101 RJ CORMAN DR NICHOLASVILLE, KY 40356</small>	
DESIGNED BY: MRM DIGITIZED BY: RJC CHECKED BY: MGH REV 01	SR 36 WESTOVER, PA M.P. 029.17 D.O.T. 506-101M CRESSON SUBDIVISION	DATE: 10/31/23 FILE: CR02917.10 SHEET 10

GATE 2
BASE JCT BOX

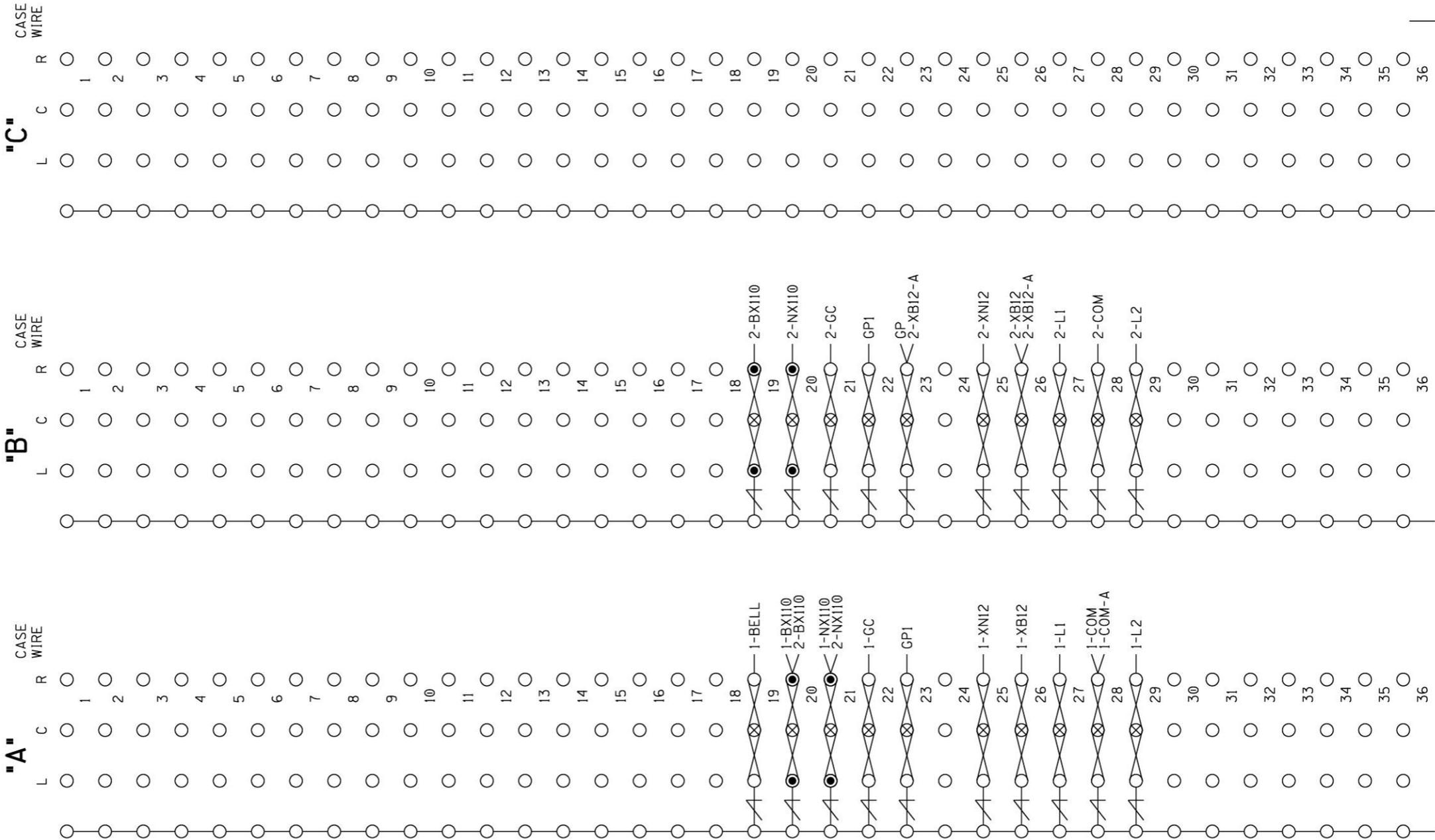
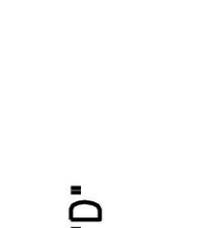
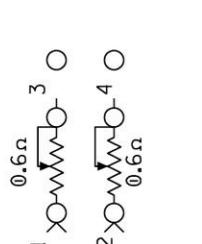
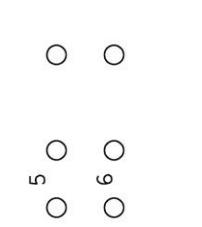
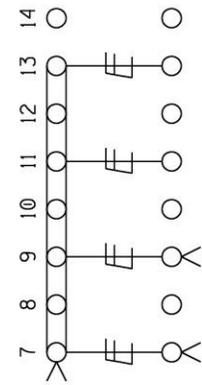


NOTES:

1. ALL WIRING #10 AWG UNLESS NOTED OTHERWISE
 2. ADD JUMPERS IN GATE SHOWN IN BOLD.
 3. FOR FUTURE GATES
-  = 1 INCH TEST LINK
 = TEST NUT

FLASHER CIRCUITS SIGNAL 2

 RJ Corman Railroad <small>P.O. BOX 788 101 RJ CORMAN DR NICHOLASVILLE, KY 40356</small>		
DESIGNED BY: MRM DIGITIZED BY: RJC CHECKED BY: MGH REV 01	SR 36 WESTOVER, PA M.P. 029.17 D.O.T. 506-101M CRESSON SUBDIVISION	
		DATE: 10/31/23 FILE: CR02917.11 SHEET 11



NOTE:
 Clearview
 < = Lightning Arresters
 FOR FUTURE GATES

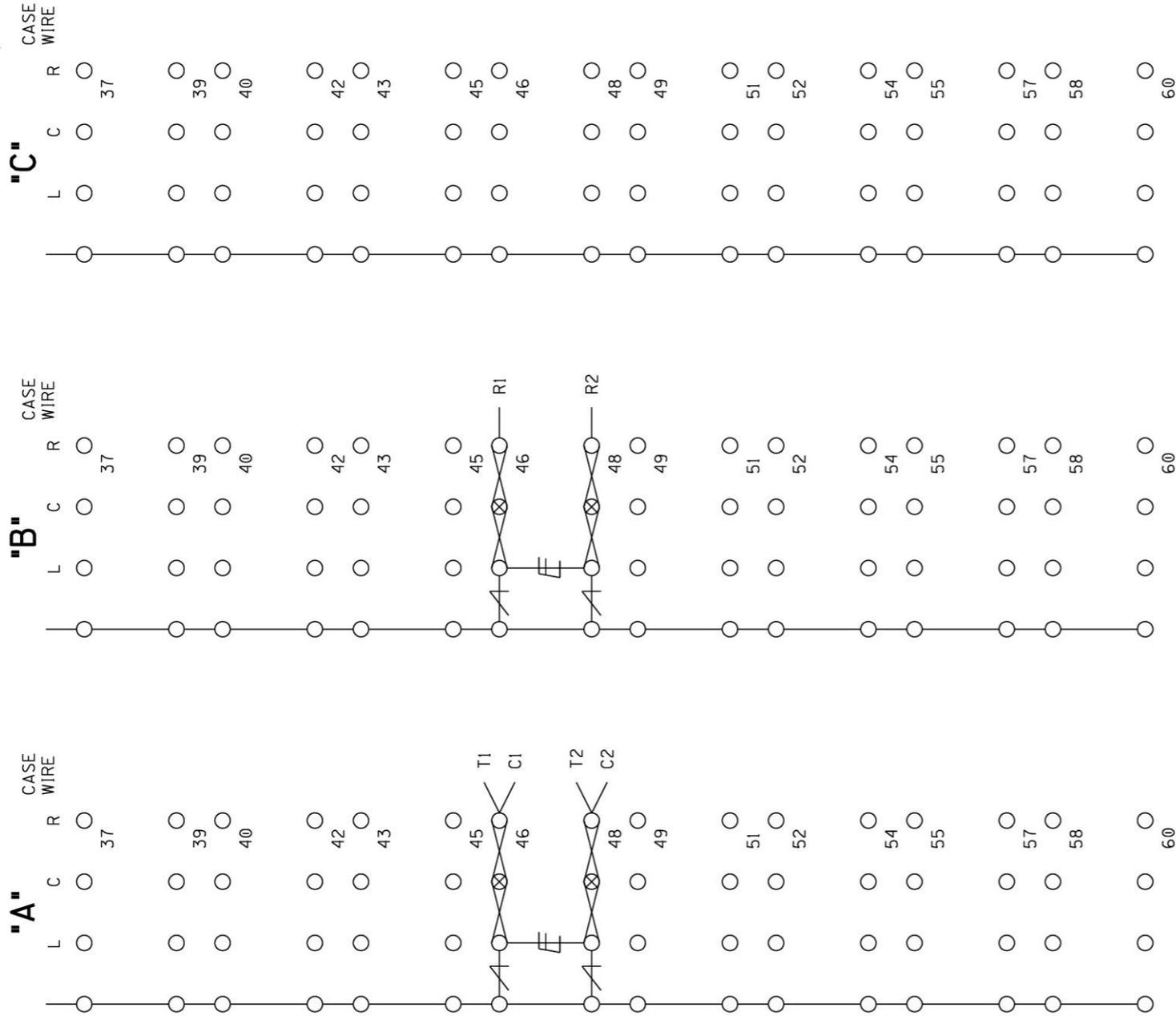
= TEST LINK
 = TEST NUT

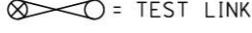
TERMINAL BOARD FRONT LAYOUT

RJ Corman Railroad <small>P.O. BOX 788 101 RJ CORMAN DR NICHOLASVILLE, KY 40356</small>	
DESIGNED BY: MRM DIGITIZED BY: RJC CHECKED BY: MGH REV 01	SR 36 WESTOVER, PA M.P. 029.17 D.O.T. 506-101M CRESSON SUBDIVISION
DATE: 10/31/23 FILE: CR02917.12 SHEET 12	

CONTINUED ON NEXT SHEET

CONTINUED ON PREVIOUS SHEET



NOTE:
 = Heavy Duty Equalizer
 = TEST LINK
 = Lightning Arrester
 = TEST NUT

TERMINAL BOARD FRONT LAYOUT



RJ Corman Railroad

P.O. BOX 788 101 RJ CORMAN DR
 NICHOLASVILLE, KY 40356



DESIGNED BY: MRM
 DIGITIZED BY: RJC
 CHECKED BY: MGH
 REV 01

SR 36
 WESTOVER, PA
 M.P. 029.17 D.O.T. 506-101M
 CRESSON SUBDIVISION

DATE: 10/31/23
 FILE: CR02917.13
 SHEET 13

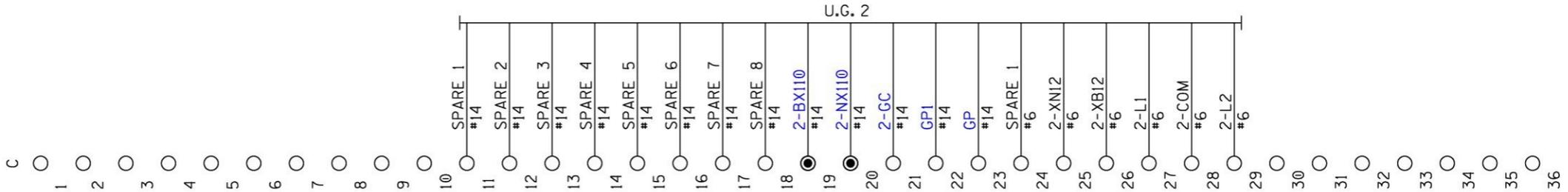
OUTSIDE
CABLE

"C"



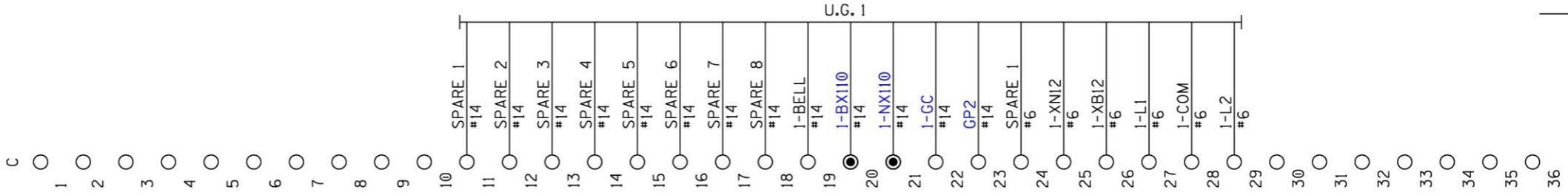
OUTSIDE
CABLE

"B"



OUTSIDE
CABLE

"A"



NOTE:
FOR FUTURE GATES

TERMINAL BOARD REAR LAYOUT



RJ Corman Railroad

P.O. BOX 788 101 RJ CORMAN DR
NICHOLASVILLE, KY 40356



DESIGNED BY: MRM
DIGITIZED BY: RJC
CHECKED BY: MGH
REV 01

SR 36
WESTOVER, PA
M.P. 029.17 D.O.T. 506-101M
CRESSON SUBDIVISION

DATE: 10/31/23
FILE: CR02917.14
SHEET 14

CONTINUED ON NEXT SHEET

CONTINUED ON PREVIOUS SHEET

OUTSIDE
CABLE

"C"

C
37

39
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42
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57
58

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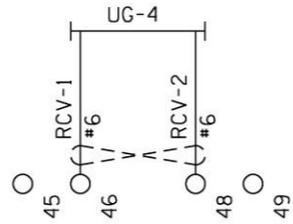
OUTSIDE
CABLE

"B"

C
37

39
40

42
43



51
52

54
55

57
58

60

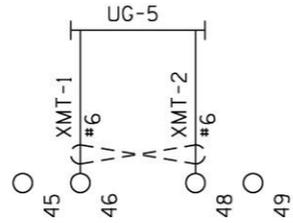
OUTSIDE
CABLE

"A"

C
37

39
40

42
43



51
52

54
55

57
58

60

NOTE:

() x () = TWIST

TERMINAL BOARD REAR LAYOUT



RJ Corman Railroad

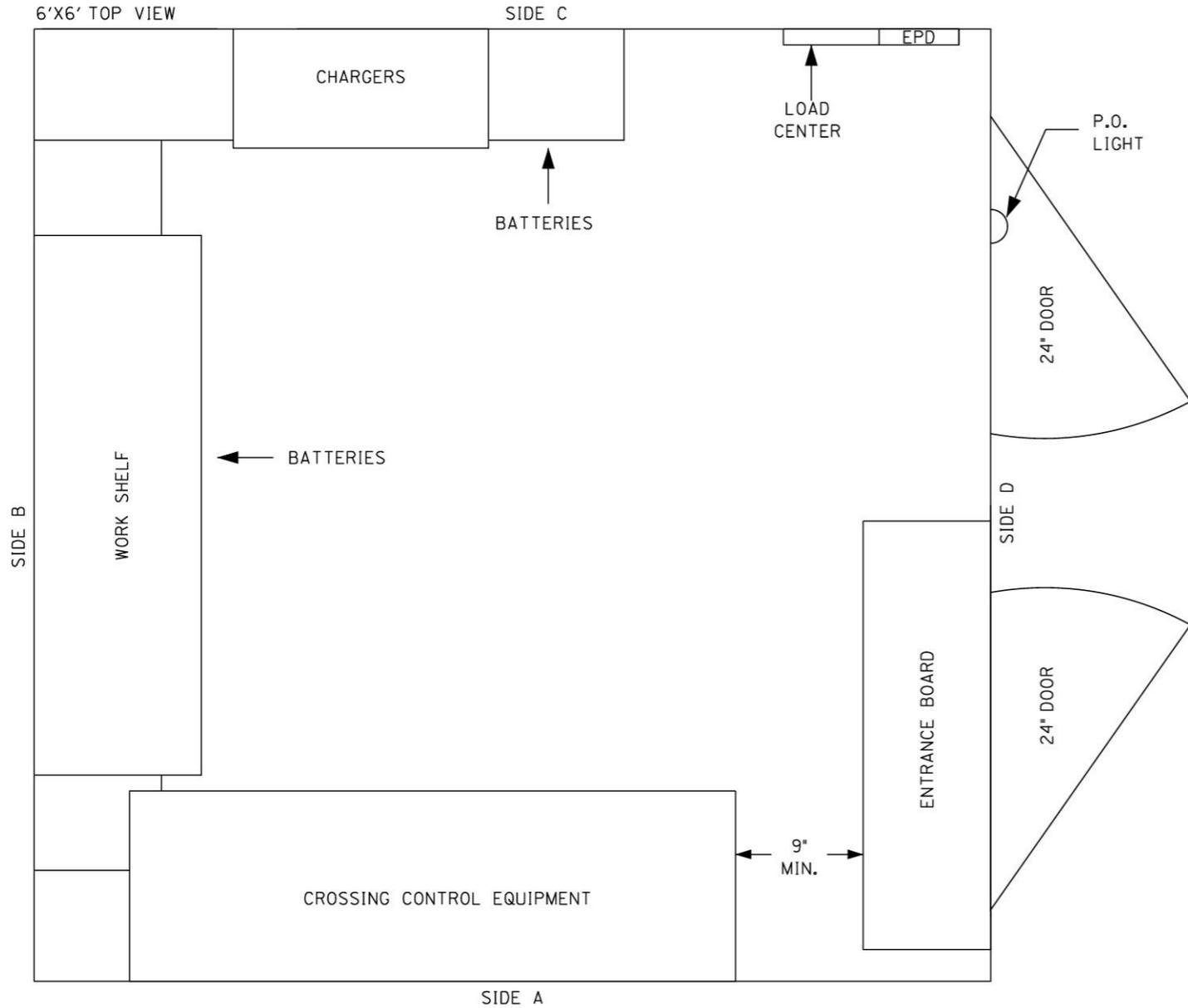
P.O. BOX 788 101 RJ CORMAN DR
NICHOLASVILLE, KY 40356



DESIGNED BY: MRM
DIGITIZED BY: RJC
CHECKED BY: MGH
REV 01

SR 36
WESTOVER, PA
M.P. 029.17 D.O.T. 506-101M
CRESSON SUBDIVISION

DATE: 10/31/23
FILE: CR02917.15
SHEET 15

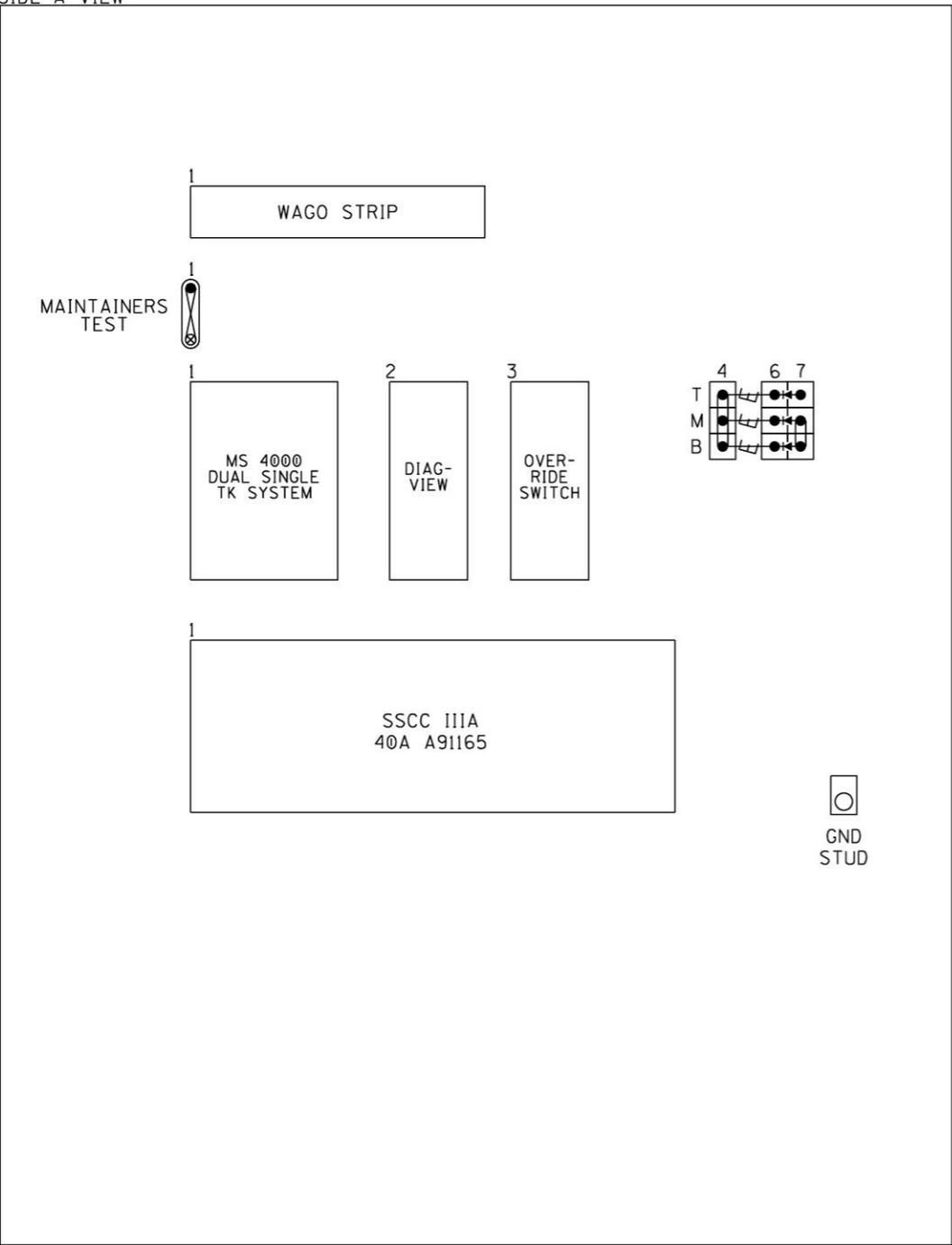


6'X6' SHELTER LAYOUT - TOP VIEW

 RJ Corman Railroad <small>P.O. BOX 788 101 RJ CORMAN DR NICHOLASVILLE, KY 40356</small> 		
DESIGNED BY: MRM DIGITIZED BY: RJC CHECKED BY: MGH REV 01	SR 36 WESTOVER, PA M.P. 029.17 D.O.T. 506-101M CRESSON SUBDIVISION	DATE: 10/31/23 FILE: CR02917.16 SHEET 16

SIDE A VIEW

A
B
C
D
E



- NOTE:
-  = TEST LINK
 -  = TEST NUT
 -  = 2-3/8" BLOCK

6' X 6' HOUSE - SIDE "A"

 RJ Corman Railroad <small>P.O. BOX 788 101 RJ CORMAN DR NICHOLASVILLE, KY 40356</small> 		
DESIGNED BY: MRM	SR 36	DATE: 10/31/23
DIGITIZED BY: RJC	WESTOVER, PA	FILE: CR02917.17
CHECKED BY: MGH	M.P. 029.17 D.O.T. 506-101M	SHEET 17
REV 01	CRESSON SUBDIVISION	

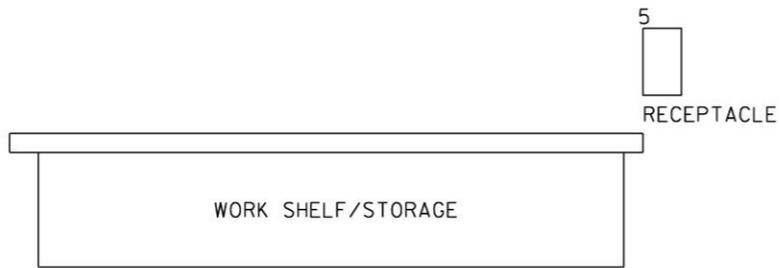
SIDE B VIEW

A

B

C

D



6' X 6' HOUSE - SIDE "B"



RJ Corman Railroad

P.O. BOX 788 101 RJ CORMAN DR
NICHOLASVILLE, KY 40356

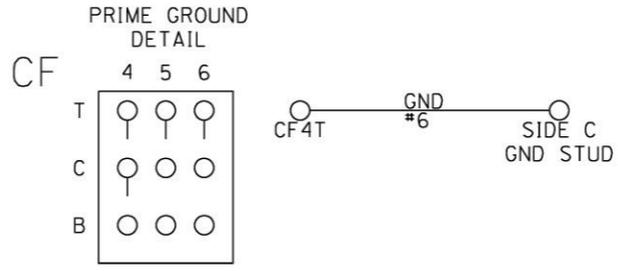
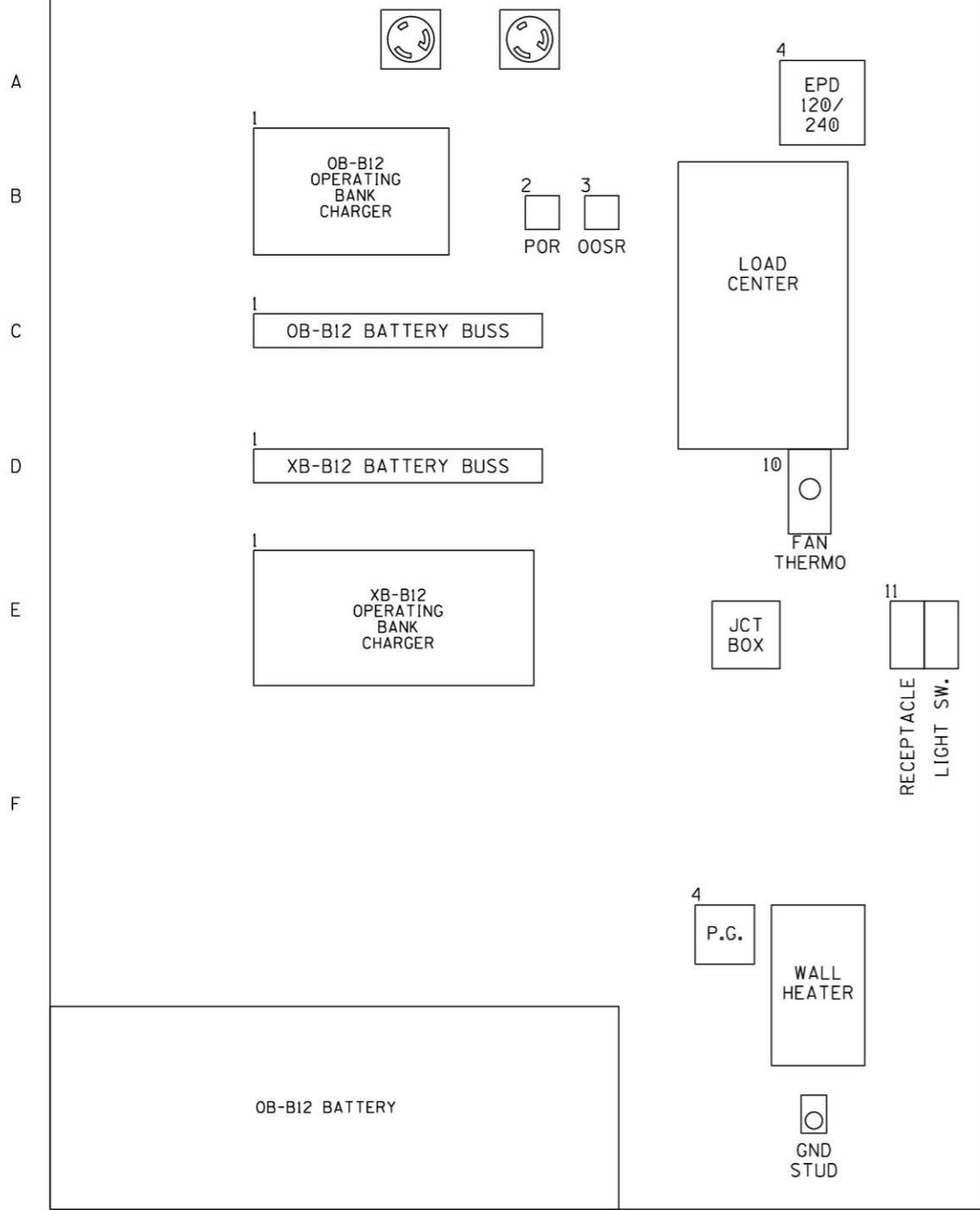


DESIGNED BY: MRM
DIGITIZED BY: RJC
CHECKED BY: MGH
REV 01

SR 36
WESTOVER, PA
M.P. 029.17 D.O.T. 506-101M
CRESSON SUBDIVISION

DATE: 10/31/23
FILE: CR02917.18
SHEET 18

SIDE C VIEW



6' X 6' HOUSE - SIDE "C"

 RJ Corman Railroad <small>P.O. BOX 788 101 RJ CORMAN DR NICHOLASVILLE, KY 40356</small> 		
DESIGNED BY: MRM DIGITIZED BY: RJC CHECKED BY: MGH REV 01	SR 36 WESTOVER, PA M.P. 029.17 D.O.T. 506-101M CRESSON SUBDIVISION	DATE: 10/31/23 FILE: CR02917.19 SHEET 19

SIDE D VIEW

E

GEMS
P.O.L.



DOOR

ENTRANCE BOARD

6' X 6' HOUSE - SIDE "D"



RJ Corman Railroad

P.O. BOX 788 101 RJ CORMAN DR
NICHOLASVILLE, KY 40356



DESIGNED BY: MRM
DIGITIZED BY: RJC
CHECKED BY: MGH
REV 01

SR 36
WESTOVER, PA
M.P. 029.17 D.O.T. 506-101M
CRESSON SUBDIVISION

DATE: 10/31/23
FILE: CR02917.20
SHEET 20

SH. NO.	CONTENTS	REV
NX1	INDEX SHEET	1
1	TRACK PLAN	1
2	PROFILE	1
3	TRACK LAYOUT	1
4	LOAD CENTER WIRING	1
5	DC POWER	1
6	PO LIGHT CIRCUITS	1
7	MS 4000 GCP	1
8	TRACK CONNECTIONS	1
9	CROSSING CONTROLLER HOOK-UP	1
10	FLASHER CIRCUITS SIGNAL "A"	1
11	FLASHER CIRCUITS SIGNAL "B"	1
12	TERMINAL BOARD FRONT LAYOUT	1
13	TERMINAL BOARD FRONT LAYOUT	1
14	TERMINAL BOARD REAR LAYOUT	1
15	TERMINAL BOARD REAR LAYOUT	1
16	TOP VIEW	1
17	HOUSE SIDE A LAYOUT	1
18	HOUSE SIDE B LAYOUT	1
19	HOUSE SIDE C LAYOUT	1
20	HOUSE SIDE D LAYOUT	1



CROSSING LOCATION MAP



AERIAL VIEW OF CROSSING

REVISIONS

1	11-07-23	MRM	RJC	MGH
---	----------	-----	-----	-----

NEW XING AT SR 219
MS4000

PROJECT:
IN SERVICE:
PER:

CERTIFIED CORRECT PLANS

Professional Engineer
Professional Engineer

Approved by Bureau of Technical Utility Services

PA PUBLIC UTILITY COMMISSION

ATTEST *Secretary*
Secretary

01/03/2024
Docket: A-2023-3040993

INDEX SHEET



RJ Corman Railroad

P.O. BOX 788 101 RJ CORMAN DR
NICHOLASVILLE, KY 40356



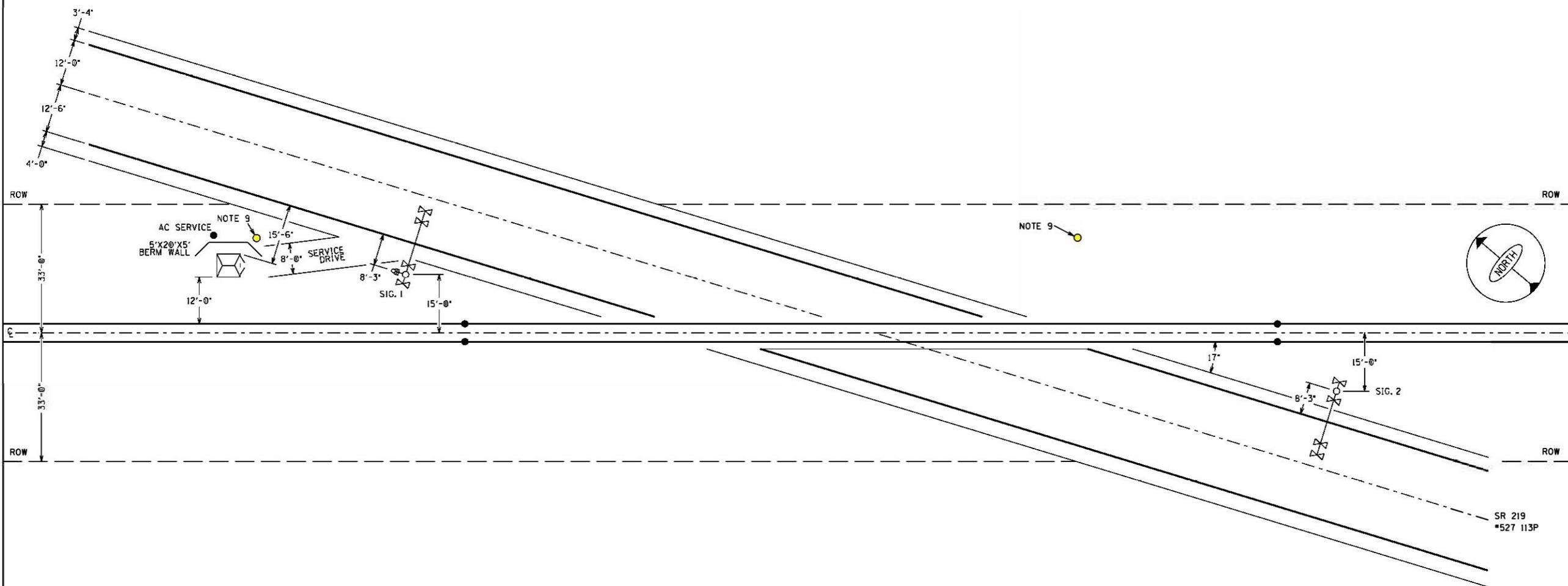
DESIGNED BY: MRM
DIGITIZED BY: RJC
CHECKED BY: MGH
REV 01

SR 219
MAHAFFEY, PA
M.P. 022.20 D.O.T. 527-113P
CHERRY TREE SUBDIVISION

DATE: 11/07/23
FILE: CH02220.NXI
SHEET NX1

TO BURNSIDE
WEST
M.P. INCREASING

TO MAHAFFEY
EAST
M.P. DECREASING

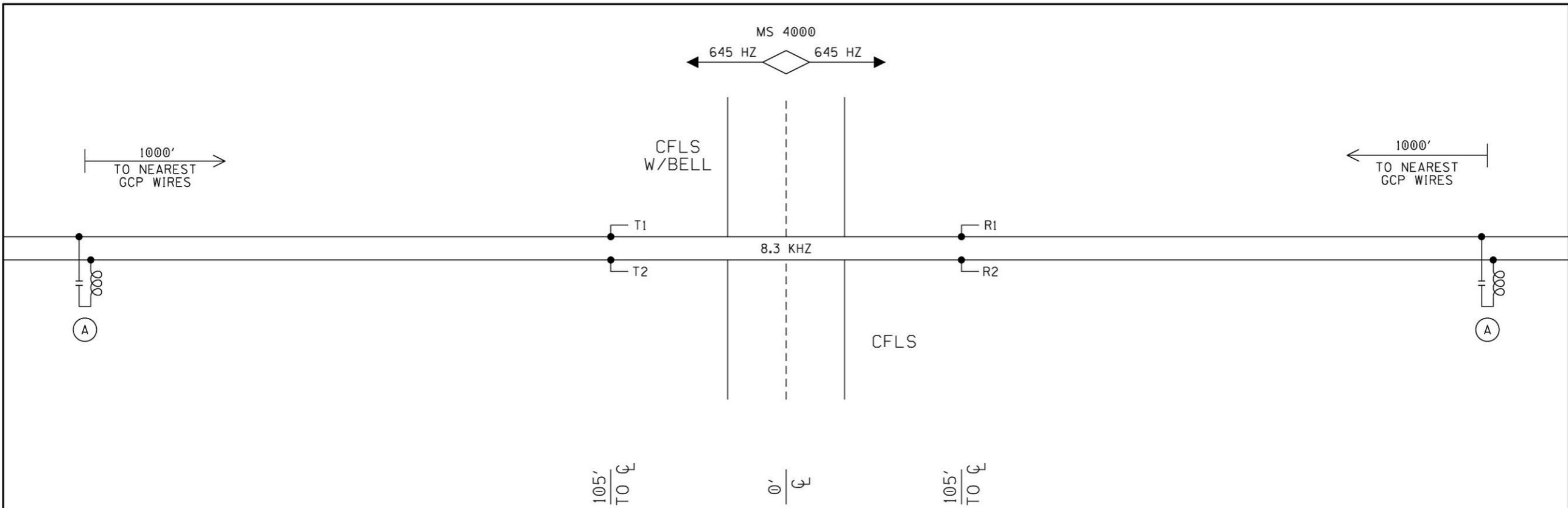


NOTES:

1. MAX. TRAIN SPEED 10 M.P.H.
2. LATITUDE N 40°52' 47.3" LONGITUDE W 78°45' 59.91" ELEVATION 1577'
3. SIGNAL "A" TO HAVE BELL.
4. LOCATE U/G UTILITIES & CABLE BEFORE DIGGING.
5. CROSSING LOCATED IN CLEARFIELD COUNTY.
6. NEAREST STREET ADDRESS IS
12879 BURNSIDE MCGEE HWY
7. NEAREST INTERSECTING STREET IS
COVERED BRIDGE RD
8. DISTANCE TO NEAREST INTERSECTING STREET IS 213 FT.
9. REMOVE RETIRED POLE LINE POLES

SCALE 1" = 30'
TRACK PLAN

 RJ Corman Railroad <small>P.O. BOX 788 101 RJ CORMAN DR NICHOLASVILLE, KY 40356</small>		
DESIGNED BY: MRM	SR 219	
DIGITIZED BY: RJC	MAHAFFEY, PA	
CHECKED BY: MGH	M.P. 022.20	D.O.T. 527-113P
REV 01	CHERRY TREE SUBDIVISION	
		DATE: 11/07/23 FILE: CH02220.01 SHEET 01

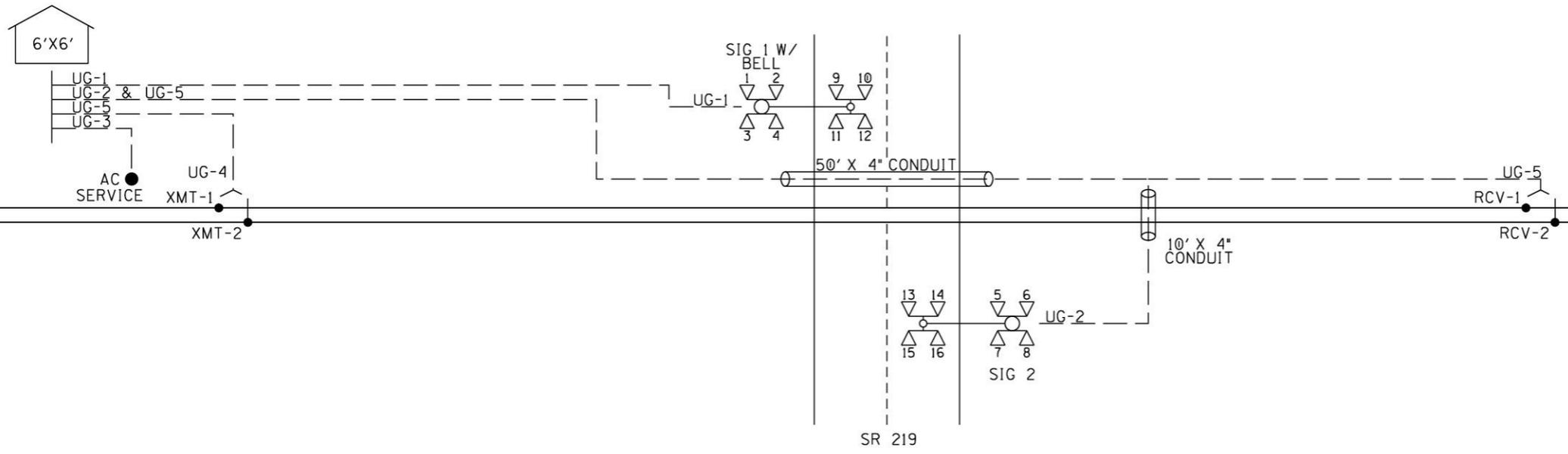


(A) - NSB-1 62775-3497 (645HZ)

APPROACH CALCULATION INFORMATION	
STANDARD MINIMUM WARNING TIME IN SECONDS	25
ROADWAY GATE TIME IN SECONDS	00
CLEARANCE TIME IN SECONDS	11
DOT TRAFFIC LIGHT SIMULTANEOUS PREEMPT IN SECS	00
DESIGNED WARNING TIME FOR TRAINS AT T.T. SPEED	36
DOT TRAFFIC LIGHT ADVANCE PREEMPT IN SECS	00
CONTROL EQUIPMENT REACTION TIME IN SECONDS	05
DESIGNED DETECTION TIME FOR TRAINS AT T.T. SPEED	41
TIME TABLE MAXIMUM TRAIN SPEED IN MILE PER HOUR	10
BUFFER IN MILE PER HOUR	05
APPROACH SPEED FR CROSSING CALCULATION (AS)	15
APPROACH DISTANCE FORMULA: TT×AS×1.467	1.467
MIN. APPROACH DISTANCE TO ISLAND EDGE IN FEET	905'

PROFILE

 RJ Corman Railroad <small>P.O. BOX 788 101 RJ CORMAN DR NICHOLASVILLE, KY 40356</small>		
DESIGNED BY: MRM DIGITIZED BY: RJC CHECKED BY: MGH REV 01	SR 219 MAHAFFEY, PA M.P. 022.20 D.O.T. 527-113P CHERRY TREE SUBDIVISION	DATE: 11/07/23 FILE: CH02220.02 SHEET 02



- UG-1-19C COMP
(6C#6, 13C#14)
- 1-L2
- 1-L1
- 1-COM
- 1-XB12
- 1-XN12
- SPARE 1
- 1-GC
- 1-BELL
- GP2
- 1-BX110
- 1-NX110
- SPARE 1
- SPARE 2
- SPARE 3
- SPARE 4
- SPARE 5
- SPARE 6
- SPARE 7
- SPARE 8
- SPARE 9

- UG-2-19C COMP
(6C#6, 13C#14)
- 2-L2
- 2-L1
- 2-COM
- 2-XB12
- 2-XN12
- SPARE 1
- 2-GC
- 2-BELL
- GP
- GP1
- 2-BX110
- 2-NX110
- SPARE 1
- SPARE 2
- SPARE 3
- SPARE 4
- SPARE 5
- SPARE 6
- SPARE 7

- UG-3-3CUG #2
W/#6 GND
- L1
- L2
- NEUTRAL
- GND
- UG-4-TW, PR. #6
- RCV-1
- RCV-2
- UG-5-TW, PR. #6
- XMT-1
- XMT-2

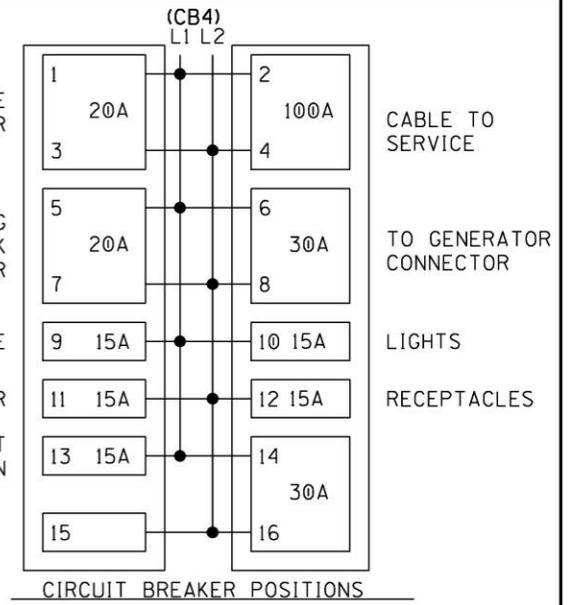
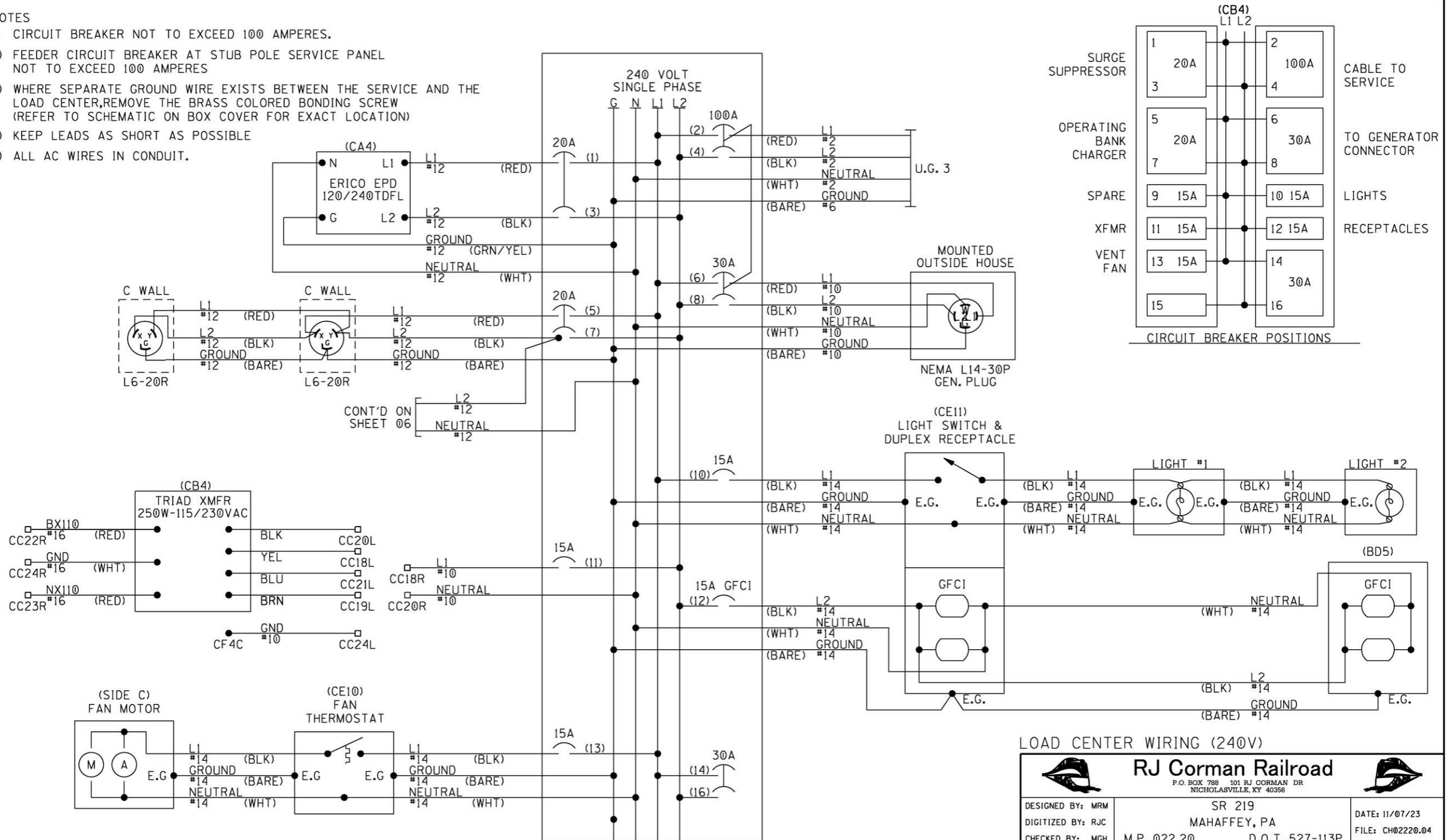
NOTE:
FOR FUTURE GATES

TRACK LAYOUT

	RJ Corman Railroad <small>P.O. BOX 788 101 RJ CORMAN DR NICHOLASVILLE, KY 40356</small>	
DESIGNED BY: MRM DIGITIZED BY: RJC CHECKED BY: MGH REV 01	SR 219 MAHAFFEY, PA M.P. 022.20 D.O.T. 527-113P CHERRY TREE SUBDIVISION	DATE: 11/07/23 FILE: CH02220.03 SHEET 03

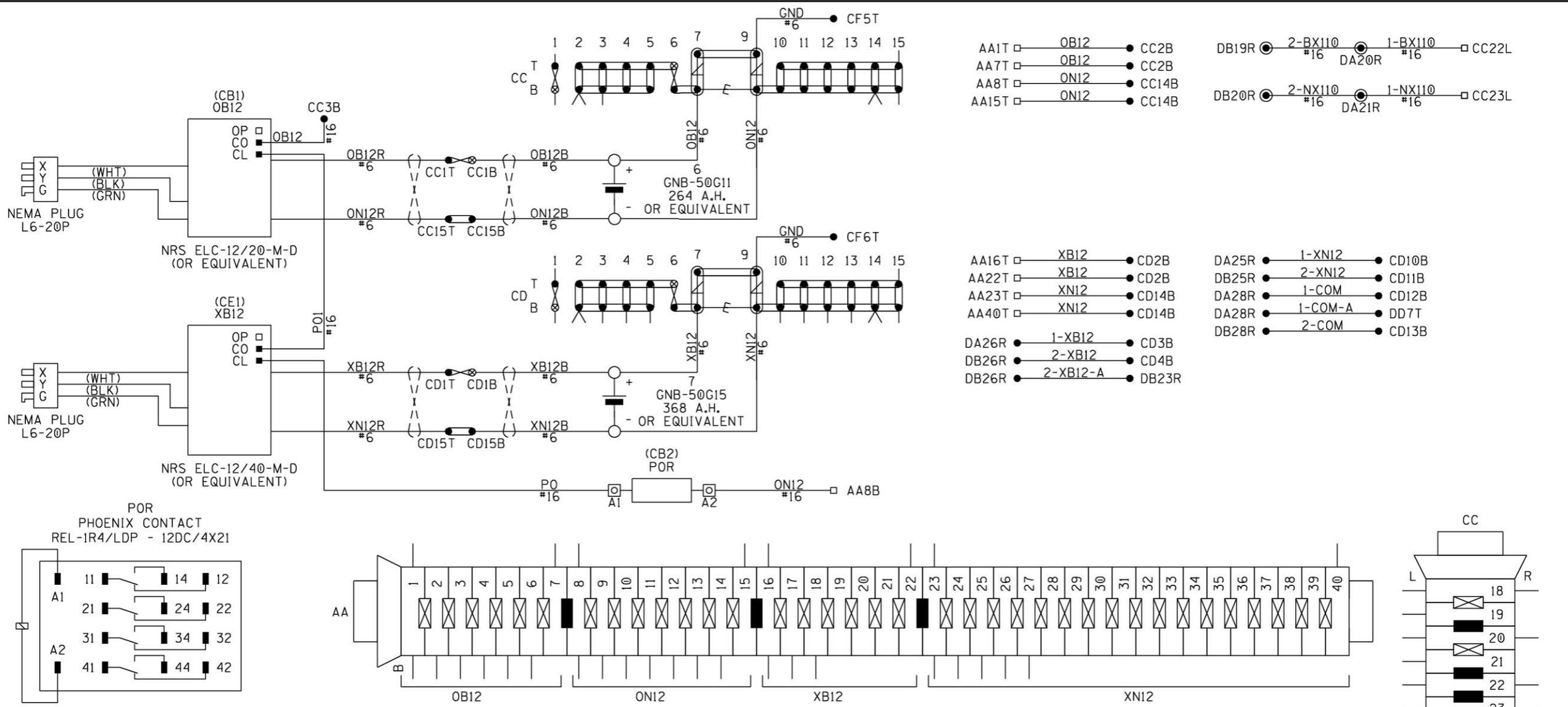
NOTES

- 1) CIRCUIT BREAKER NOT TO EXCEED 100 AMPERES.
- 2) FEEDER CIRCUIT BREAKER AT STUB POLE SERVICE PANEL NOT TO EXCEED 100 AMPERES
- 3) WHERE SEPARATE GROUND WIRE EXISTS BETWEEN THE SERVICE AND THE LOAD CENTER, REMOVE THE BRASS COLORED BONDING SCREW (REFER TO SCHEMATIC ON BOX COVER FOR EXACT LOCATION)
- 4) KEEP LEADS AS SHORT AS POSSIBLE
- 5) ALL AC WIRES IN CONDUIT.



LOAD CENTER WIRING (240V)

RJ Corman Railroad <small>P.O. BOX 788 101 RJ CORMAN DR NICHOLASVILLE, KY 40356</small>		
DESIGNED BY: MRM DIGITIZED BY: RJC CHECKED BY: MGH REV 01	SR 219 MAHAFFEY, PA M.P. 022.20 CHERRY TREE SUBDIVISION	DATE: 11/07/23 FILE: CH02220.04 SHEET 04

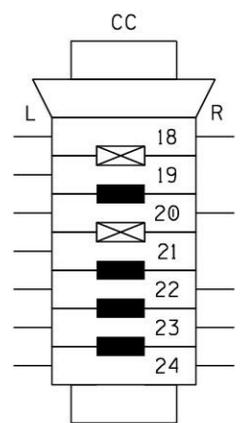
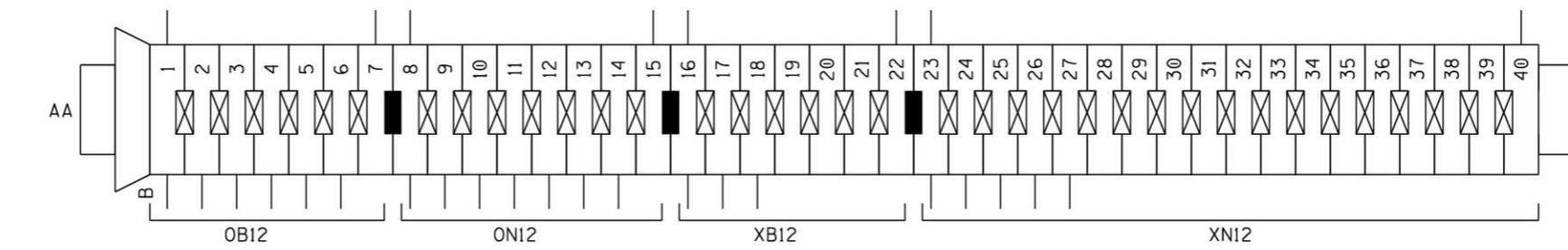
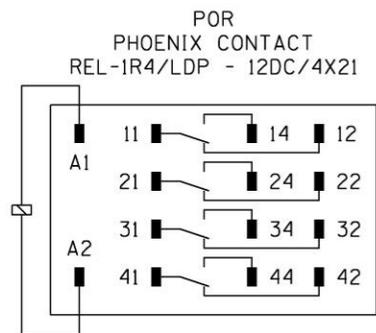


- AA1T □ OB12 ● CC2B
- AA7T □ OB12 ● CC2B
- AA8T □ ON12 ● CC14B
- AA15T □ ON12 ● CC14B

- DB19R ● 2-BX110 #16 ● 1-BX110 #16 □ CC22L
- DA20R ● 2-NX110 #16 ● 1-NX110 #16 □ CC23L

- AA16T □ XB12 ● CD2B
- AA22T □ XB12 ● CD2B
- AA23T □ XN12 ● CD14B
- AA40T □ XN12 ● CD14B
- DA26R ● 1-XB12 ● CD3B
- DB26R ● 2-XB12 ● CD4B
- DB26R ● 2-XB12-A ● DB23R

- DA25R ● 1-XN12 ● CD10B
- DB25R ● 2-XN12 ● CD11B
- DA28R ● 1-COM ● CD12B
- DA28R ● 1-COM-A ● DD7T
- DB28R ● 2-COM ● CD13B



NOTES:
 ALL WIRING TO BE #10AWG UNLESS NOTED OTHERWISE.
 ● = 2-3/8" BLOCK
 ⊗ = 1 INCH TEST LINK
 ⊕ > < ⊕ = TWIST ⊗ = TEST NUT
 ● = INSULATED NUT
 ⊕ = Heavy Duty Equalizer
 Clearview
 ⚡ = Lightning Arrester

- # WAGO TERMINAL 2 COND. 24-10AWG (WAGO 282-601)
- ⊗ DENOTES WAGO JUMPER WAGO 282-402
- DENOTES WAGO SEPARATOR WAGO 282-337
- DENOTES WAGO END PLATE WAGO 282-317
- DENOTES WAGO END STOP WAGO 249-117

TYPICAL CELL TYPES		
CELL TYPE	AMP HOUR	VOLTAGE PER CELL
6 LA	250 MIN.	2.22V
7 LA	360 MIN.	2.22V
10 NI-CD	250 MIN.	1.43V
12 NI-CD	360 MIN.	1.43V

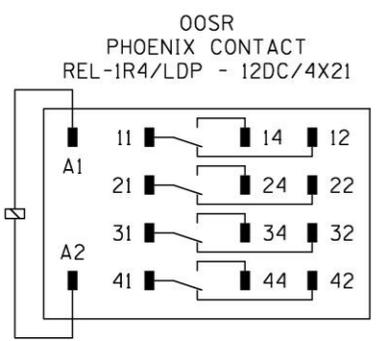
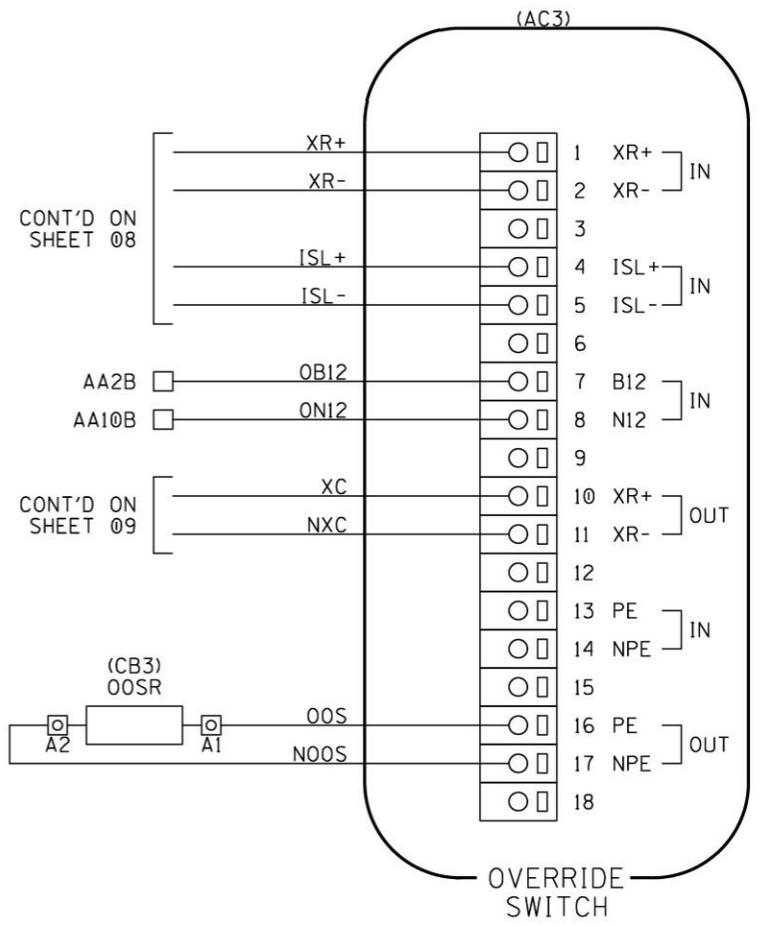
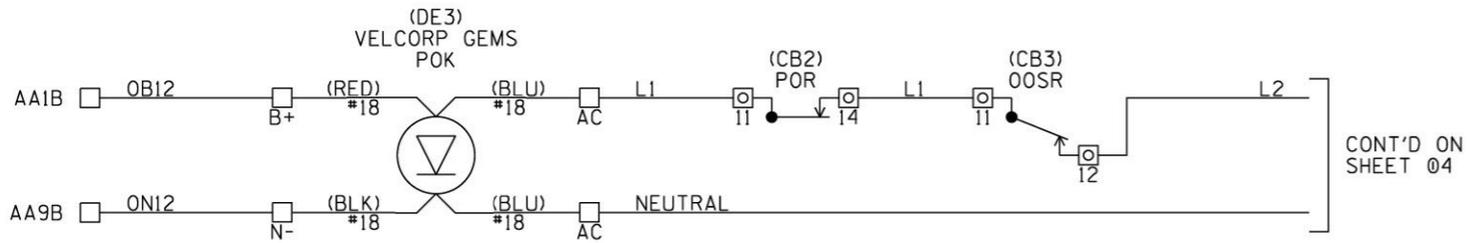
DC POWER

RJ Corman Railroad
 P.O. BOX 788 101 RJ CORMAN DR
 NICHOLASVILLE, KY 40356

DESIGNED BY: MRM
 DIGITIZED BY: RJC
 CHECKED BY: MGH
 REV 01

SR 219
 MAHAFFEY, PA
 M.P. 022.20 D.O.T. 527-113P
 CHERRY TREE SUBDIVISION

DATE: 11/07/23
 FILE: CH02220.05
 SHEET 05



NOTES:
1. ALL WIRING TO BE #16AWG
UNLESS NOTED OTHERWISE.

PO LIGHT CIRCUIT

 RJ Corman Railroad <small>P.O. BOX 788 101 RJ CORMAN DR NICHOLASVILLE, KY 40356</small> 		
DESIGNED BY: MRM DIGITIZED BY: RJC CHECKED BY: MGH REV 01	SR 219 MAHAFFEY, PA M.P. 022.20 D.O.T. 527-113P CHERRY TREE SUBDIVISION	DATE: 11/07/23 FILE: CH02220.06 SHEET 06

MAIN PROGRAM MENU

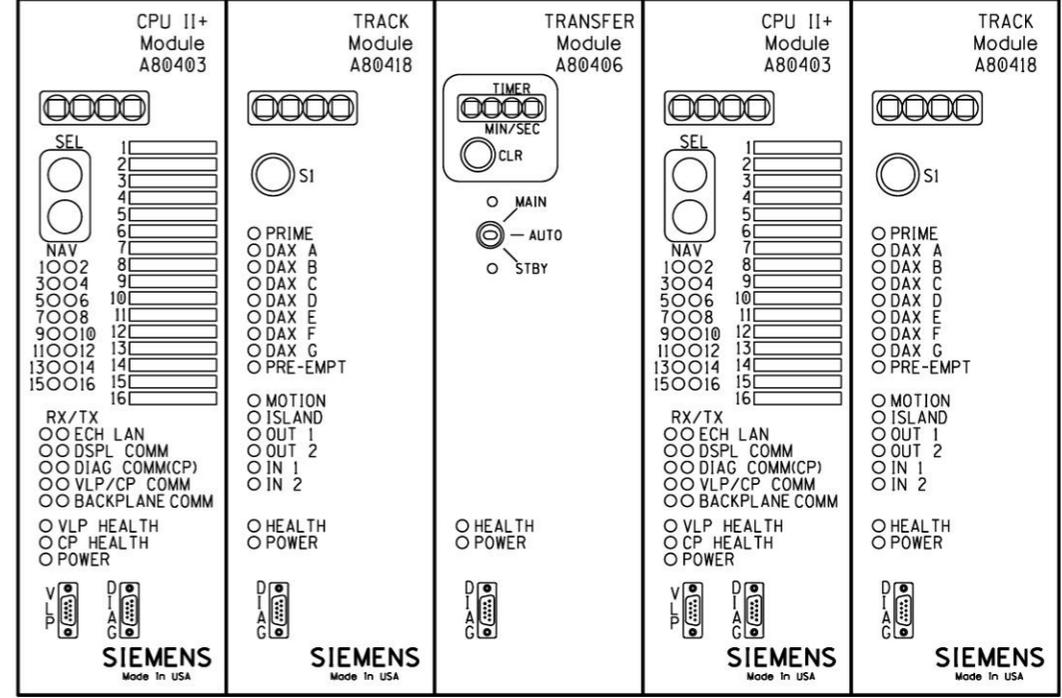
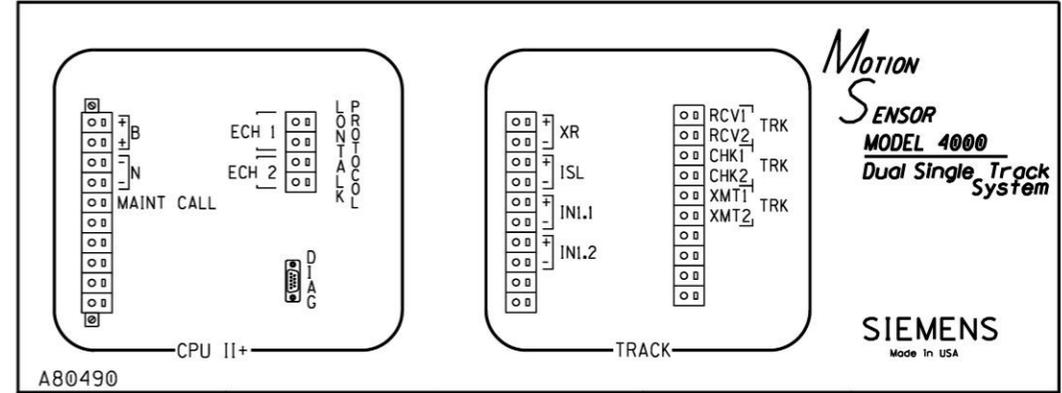
**	PARAMETER	VALUE
1	TEMPLATE	↓ MTF-MS MOTION SENSOR
1A	SET TEMPLATE DEFAULTS	(YES ON INITIAL SETUP)
MS 4000 CONFIGURATION		
2	APPR FREQUENCY	↓ 645 HZ
3	APPR TRANSMIT LEVEL	# ☆ HIGH
4	UNI/BI/SEM-BIDIRNL	↓ BIDIRNL
5	DIRECTIONALLY WIRED	↓ ☆ NO
6	MS PICKUP DELAY	↓ ☆ 15 SEC
7	UAX USED	↓ NO
7A	* PRIME UAX PICKUP	↓ ☆ 5 SEC
8	ISLAND USED	↓ ☆ INTERNAL
8A	* ISL FREQUENCY	↓ 8.3 KHZ
8B	* ISL PICKUP DELAY	↓ (2s+) 3 SECONDS
9	IN 1.1	↓ NOT USED
10	IN 1.2	↓ NOT USED
11	PRIME MS/GCP MODE	↓ PRED
11A	* PRIME WARNING TIME	↓ 29 SEC
ADVANCED		
12	POSITIVE START	↓ ☆ OFF
13	SUDDEN SHUNT DET USED	↓ ☆ NO
14	LOW EZ DET USED	↓ ☆ NO
15	MS SENSITIVITY LEVEL	# ☆ 36
16	COMPENSATION LEVEL	# ☆ 1300
17	LOW EX ADJUSTMENT	# ☆ 39
18	INBOUND PS SENSITIVITY	# ☆ HIGH
19	SPEED LIMITING USED	# ☆ YES
20	OUTBOUND FALSE ACT LVL	# ☆ NORMAL
OTHER		
21	OOS TIMEOUT	# ☆ 1 HRS
22	DAYLIGHT SAVINGS TIME	# ☆ ON
23	EZ/EX LOGGING	# ☆ CHANGE
24	EZ/EX POINT CHANGE	# ☆ 3
25	ATCS SITE ID	↓ ☆ 762010010016

CONTINUE MAIN PROGRAM MENU

**	PARAMETER	VALUE
26	LOCATION	
26A	* DOT NUMBER	# 527 113P
26B	* MILE POST	# 22.20
26C	* SITE NAME	# SR 219

MCF AND OCCN

MCF NAME	GCP-T6X-02-9.mcf
OCCN	XXXXXXXX



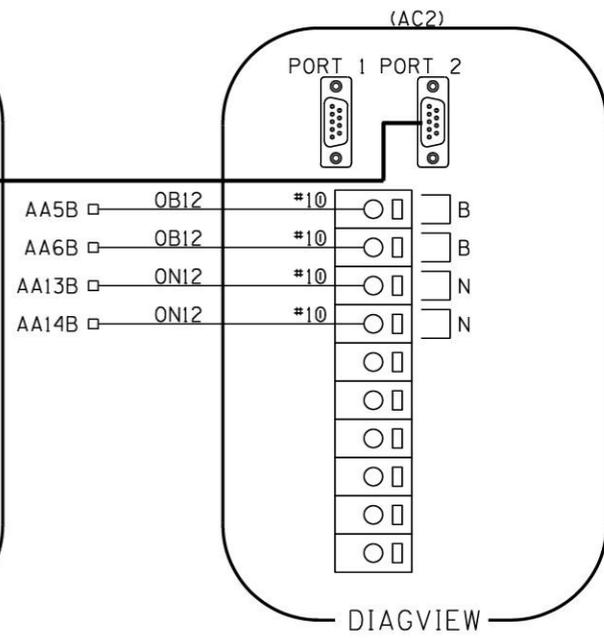
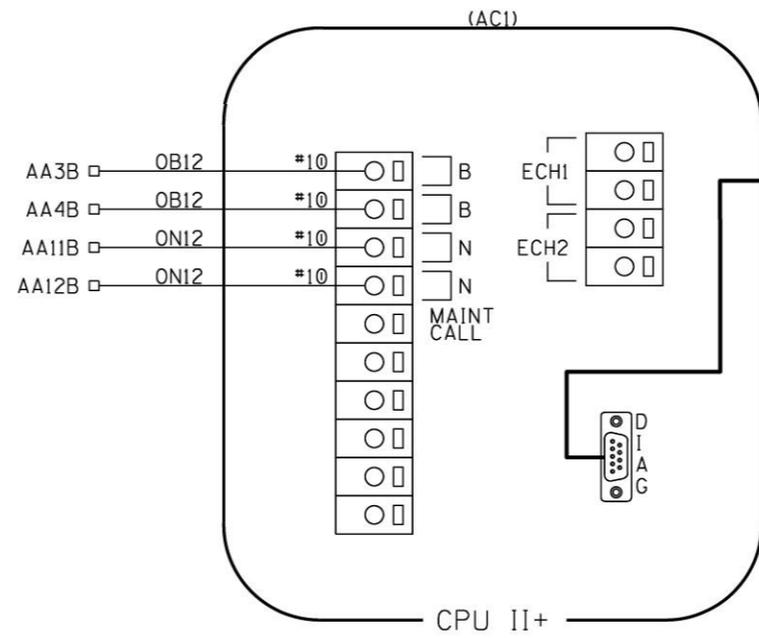
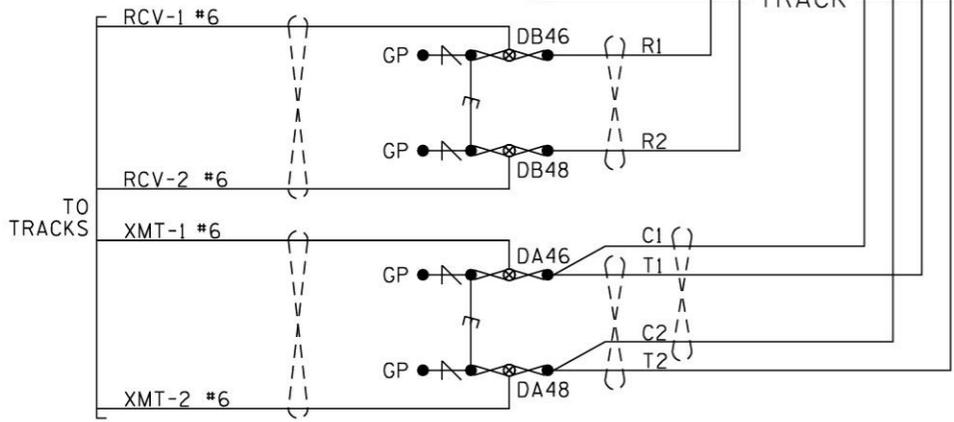
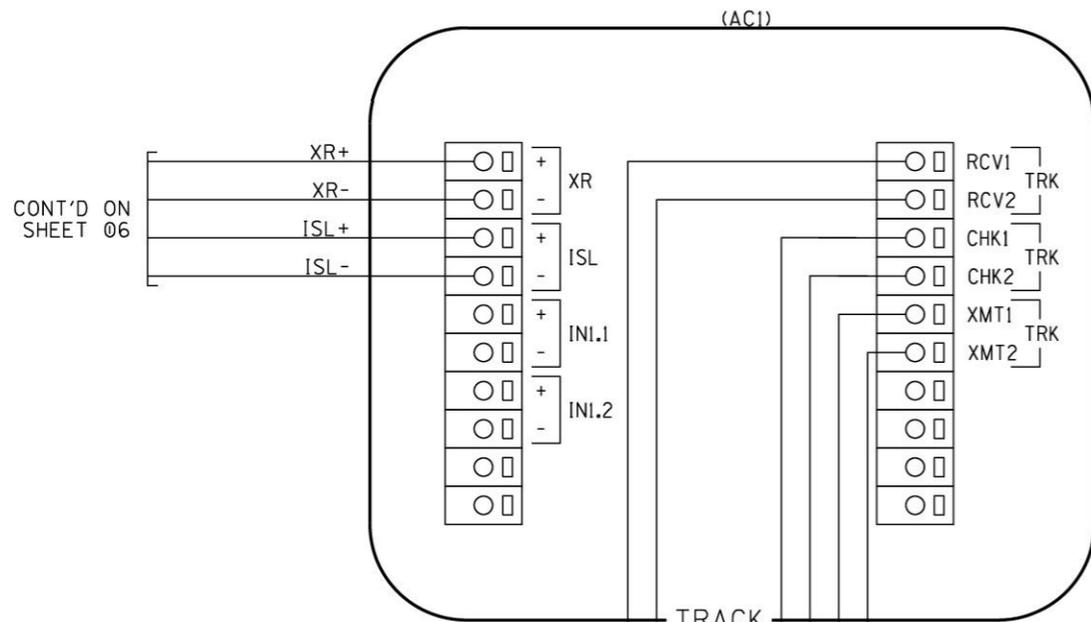
(AC1)

NOTES:

1. * AVAILABLE WHEN PRIOR PARAMETER SELECTED
2. # SET BY FIELD AS REQUIRED
3. ☆ DEFAULT SETTING
4. ↓ IMPACTS OCCN
5. ** STEP SEQUENCE WHEN USING DIAGNOSTIC TERMINAL (DT) VER. 5.7.3 TO SET PROGRAM PARAMETERS. ALPHA NUMERIC STEPS ARE SUB MENUS OF PREVIOUS STEP.

MS 4000 GCP

<p>RJ Corman Railroad P.O. BOX 788 101 RJ CORMAN DR NICHOLASVILLE, KY 40356</p>		
DESIGNED BY: MRM	SR 219	DATE: 11/07/23
DIGITIZED BY: RJC	MAHAFFEY, PA	FILE: CH02220.07
CHECKED BY: MGH	M.P. 022.20	D.O.T. 527-113P
REV 01	CHERRY TREE SUBDIVISION	SHEET 07



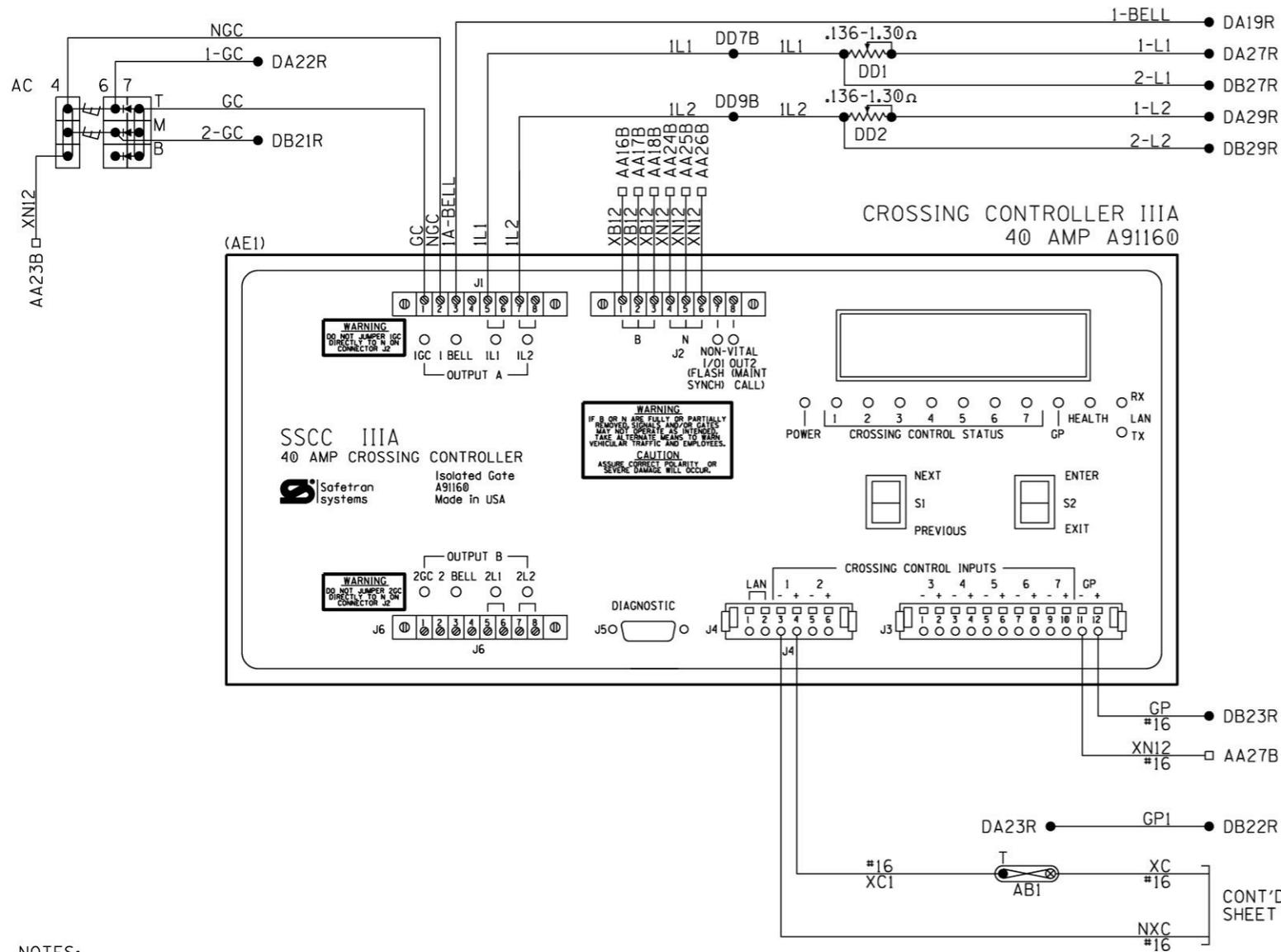
- NOTES:
 ALL WIRING TO BE #16AWG
 UNLESS NOTED OTHERWISE.
- = 2-3/8" BLOCK
 - = Heavy Duty Equalizer
 - = TEST LINK
 - = TEST NUT
 - = Lightning Arrester
 - = TWIST

TRACK CONNECTIONS

RJ Corman Railroad

P.O. BOX 788 101 RJ CORMAN DR
NICHOLASVILLE, KY 40356

DESIGNED BY: MRM DIGITIZED BY: RJC CHECKED BY: MGH REV 01	SR 219 MAHAFFEY, PA M.P. 022.20 D.O.T. 527-113P CHERRY TREE SUBDIVISION	DATE: 11/07/23 FILE: CH02220.08 SHEET 08
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NOTES:

- ALL WIRING TO BE #10AWG UNLESS NOTED OTHERWISE.
- = 2-3/8" BLOCK
- = TEST LINK
- = TEST NUT
- = 1X12 BLOCKS
- = Heavy Duty Equalizer
- = RECTIFIER, SAFETRAN PART# 8002A299006

MCF PART NUMBER	MCF NAME	MCF CRC
9V610-A001F	BASIC.MCF	1D240612

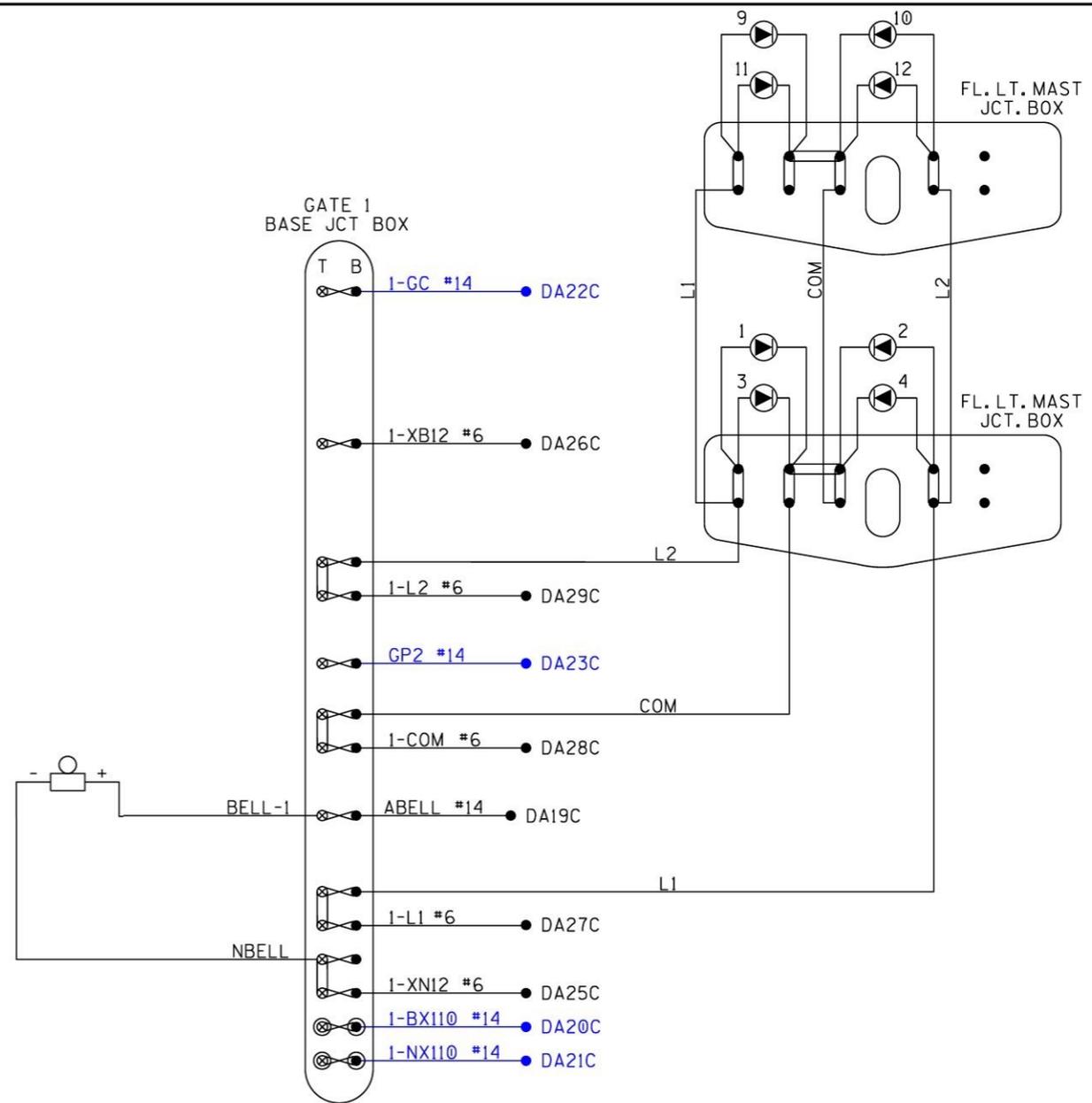
PROGRAM		
SUBMENU	NOTES	SETTINGS
FLASH RATE:	30-70 FLASH/MIN DEF.=50	50
GATES USED:	YES/NO DEF.=YES	YES
IGC DELAY:	3-20 SEC. DEF.=4	4 SEC.
GATE RISING BELL:	ON/OFF DEF.=ON	OFF
MIN ACTIVATE TMR:	0-60 SEC. DEF.=0	20 SEC.
ENABLED INPUTS:	1 THRU 1 TO 7 DEF.=1 THRU 7	1 THRU 1
TIME:	24 HOUR FORMAT	
DATE:	YYYY MMM DD	
DAYLIGHT SAVING:	ENABLED/DISABLED DEF.=DISABLED	ENABLED
PASSWORD:	ENABLED/DISABLED DEF.=DISABLED	DISABLED

CONFIGURE		
SUBMENU	NOTES	SETTINGS
LOS TIMERS:	0-20 SEC. INPUTS 1-7 DEF.=0	INPUT 1: 5
		INPUT 2: 0
		INPUT 3: 0
		INPUT 4: 0
		INPUT 5: 0
		INPUT 6: 0
		INPUT 7: 0
ATCS ADDRESS:	DEF.=700000000000	700000000000
LOW BATTERY:	9.0-15.0 VOLTS OR DISABLED DEF.=DISABLED	9.0 VOLTS
AUX I/O:	NONVITAL OUTPUT, FLASH SYNC IN, FLASH SYNC OUT DEF.=NONVITAL OUTPUT	NONVITAL OUTPUT
DETECT LAMP NEUTRAL WIRE:	YES/NO DEF.=YES	NO

CONT'D ON SHEET 06

CROSSING CONTROLLER HOOK-UP

<p>RJ Corman Railroad P.O. BOX 788 101 RJ CORMAN DR NICHOLASVILLE, KY 40356</p>		
DESIGNED BY: MRM	SR 219	DATE: 11/07/23
DIGITIZED BY: RJC	MAHAFFEY, PA	FILE: CH02220.09
CHECKED BY: MGH	M.P. 022.20	D.O.T. 527-113P
REV 01	CHERRY TREE SUBDIVISION	SHEET 09



NOTES:

1. ALL WIRING #10 AWG UNLESS NOTED OTHERWISE
 2. ADD JUMPERS IN GATE SHOWN IN BOLD.
 3. FOR FUTURE GATES
- = 1 INCH TEST LINK
 = TEST NUT

FLASHER CIRCUITS SIGNAL 1



RJ Corman Railroad

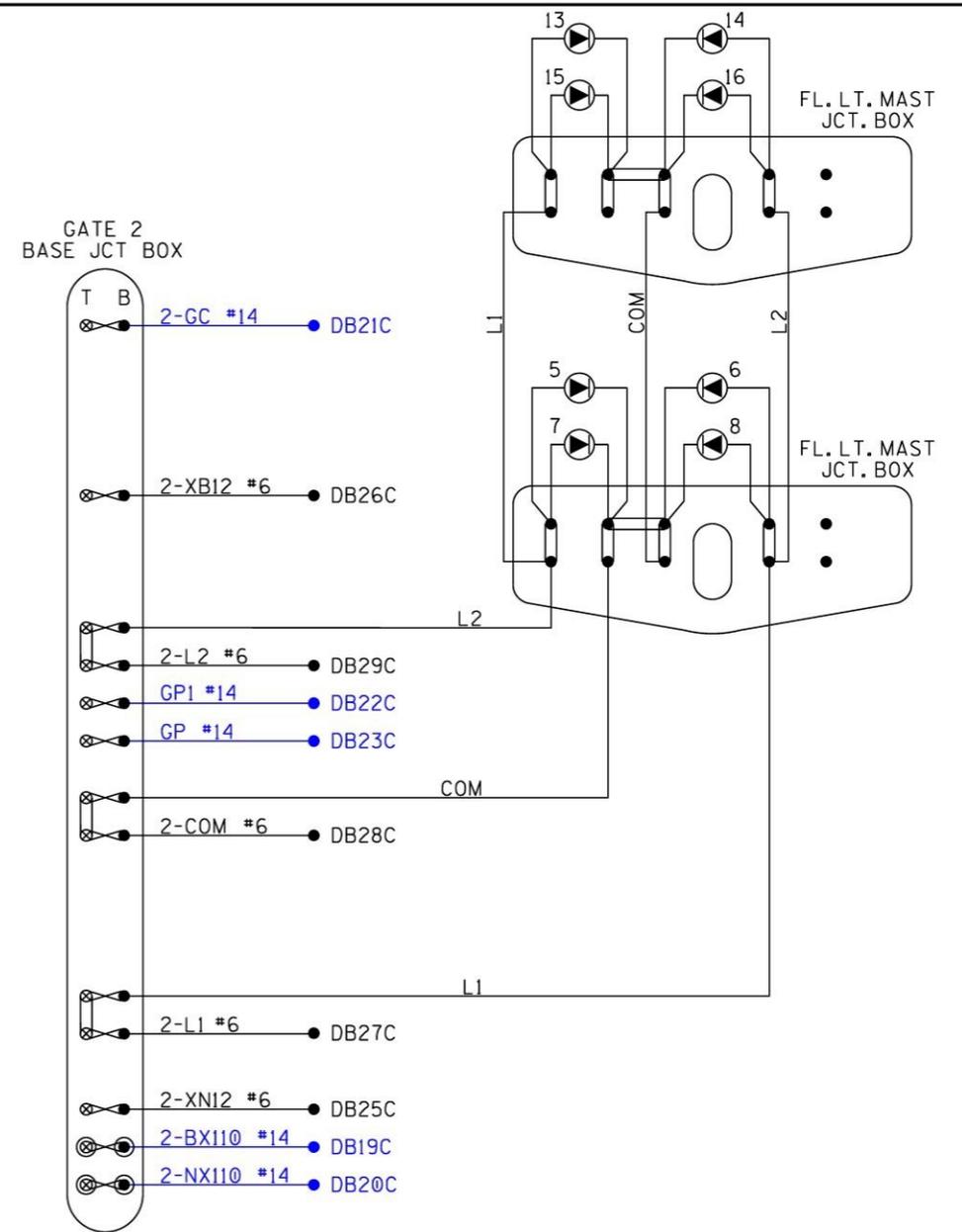
P.O. BOX 788 101 RJ CORMAN DR
NICHOLASVILLE, KY 40356



DESIGNED BY: MRM
DIGITIZED BY: RJC
CHECKED BY: MGH
REV 01

SR 219
MAHAFFEY, PA
M.P. 022.20 D.O.T. 527-113P
CHERRY TREE SUBDIVISION

DATE: 11/07/23
FILE: CH02220.10
SHEET 10

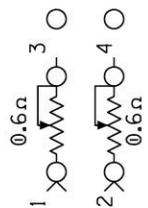
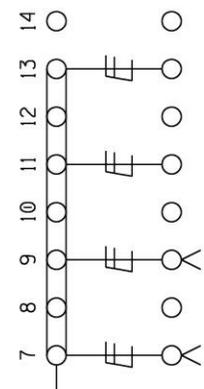


NOTES:

1. ALL WIRING #10 AWG UNLESS NOTED OTHERWISE
 2. ADD JUMPERS IN GATE SHOWN IN BOLD.
 3. FOR FUTURE GATES
- = 1 INCH TEST LINK
 = TEST NUT

FLASHER CIRCUITS SIGNAL 2

 RJ Corman Railroad <small>P.O. BOX 788 101 RJ CORMAN DR NICHOLASVILLE, KY 40356</small> 		
DESIGNED BY: MRM	SR 219	DATE: 11/07/23
DIGITIZED BY: RJC	MAHAFFEY, PA	FILE: CH02220.11
CHECKED BY: MGH	M.P. 022.20	D.O.T. 527-113P
REV 01	CHERRY TREE SUBDIVISION	SHEET 11



"D"

CASE WIRE

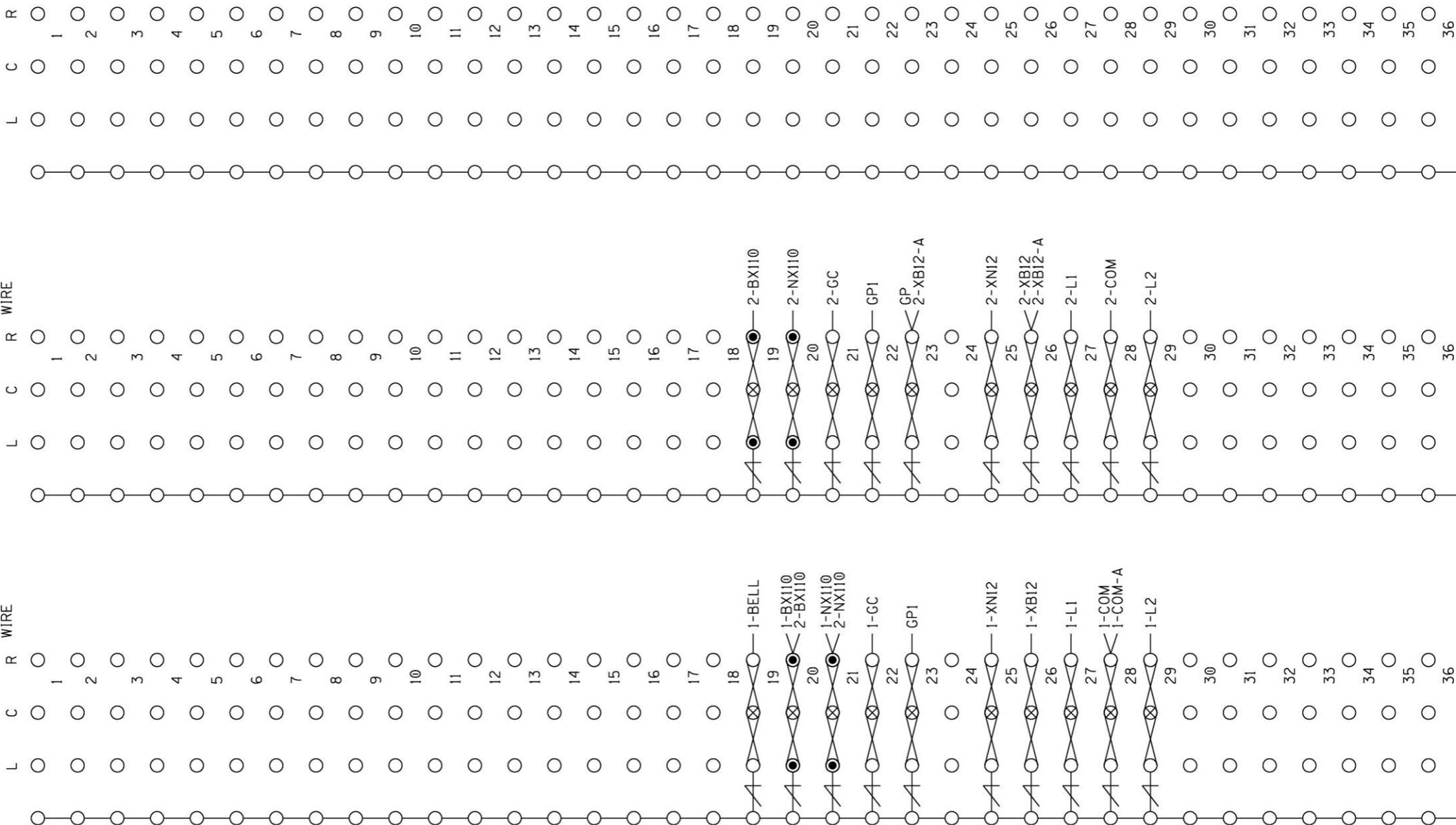
"C"

CASE WIRE

"B"

CASE WIRE

"A"



TERMINAL BOARD FRONT LAYOUT

NOTE:
 = Clearview
 = Lightning Arrester
 FOR FUTURE GATES

= TEST LINK
 = TEST NUT

CONTINUED ON NEXT SHEET



RJ Corman Railroad

P.O. BOX 788 101 RJ CORMAN DR
 NICHOLASVILLE, KY 40356

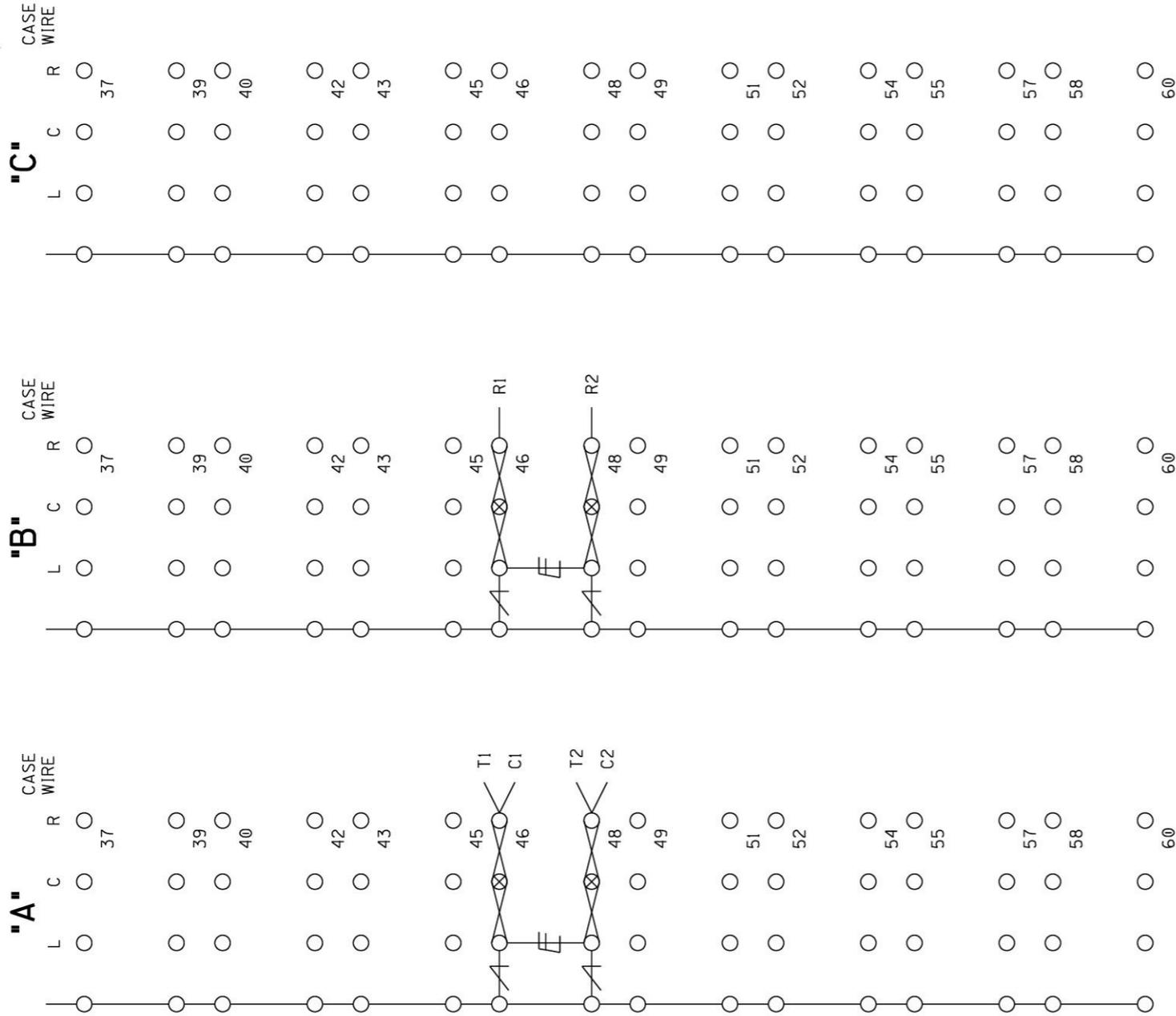


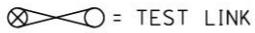
DESIGNED BY: MRM
 DIGITIZED BY: RJC
 CHECKED BY: MGH
 REV 01

SR 219
 MAHAFFEY, PA
 M.P. 022.20 D.O.T. 527-113P
 CHERRY TREE SUBDIVISION

DATE: 11/07/23
 FILE: CH02220.12
 SHEET 12

CONTINUED ON PREVIOUS SHEET



NOTE:
 = Heavy Duty Equalizer
 = TEST LINK
 = Clearview Lightning Arrester
 = TEST NUT

TERMINAL BOARD FRONT LAYOUT



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SR 219
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 M.P. 022.20 D.O.T. 527-113P
 CHERRY TREE SUBDIVISION

DATE: 11/07/23
 FILE: CH02220.13
 SHEET 13

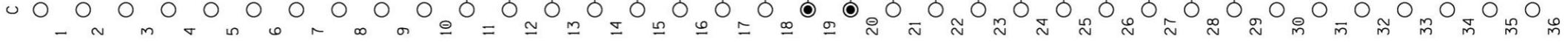
OUTSIDE
CABLE

"C"



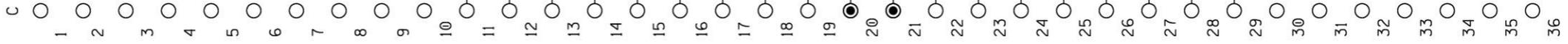
OUTSIDE
CABLE

"B"



OUTSIDE
CABLE

"A"



U.G. 1

U.G. 2

TERMINAL BOARD REAR LAYOUT



RJ Corman Railroad

P.O. BOX 788 101 RJ CORMAN DR
NICHOLASVILLE, KY 40356



NOTE:
FOR FUTURE GATES

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CHECKED BY: MGH
REV 01

SR 219
MAHAFFEY, PA
M.P. 022.20 D.O.T. 527-113P
CHERRY TREE SUBDIVISION

DATE: 11/07/23
FILE: CH02220.14
SHEET 14

CONTINUED ON NEXT SHEET

CONTINUED ON PREVIOUS SHEET

OUTSIDE
CABLE

"C"

C
37

39
40

42
43

45
46
48
49

51
52

54
55

57
58

60

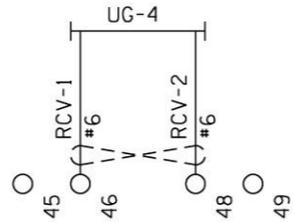
OUTSIDE
CABLE

"B"

C
37

39
40

42
43



51
52

54
55

57
58

60

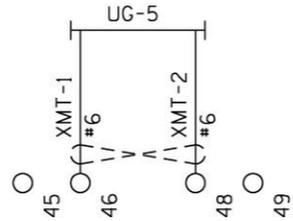
OUTSIDE
CABLE

"A"

C
37

39
40

42
43



51
52

54
55

57
58

60

NOTE:

() x () = TWIST

TERMINAL BOARD REAR LAYOUT



RJ Corman Railroad

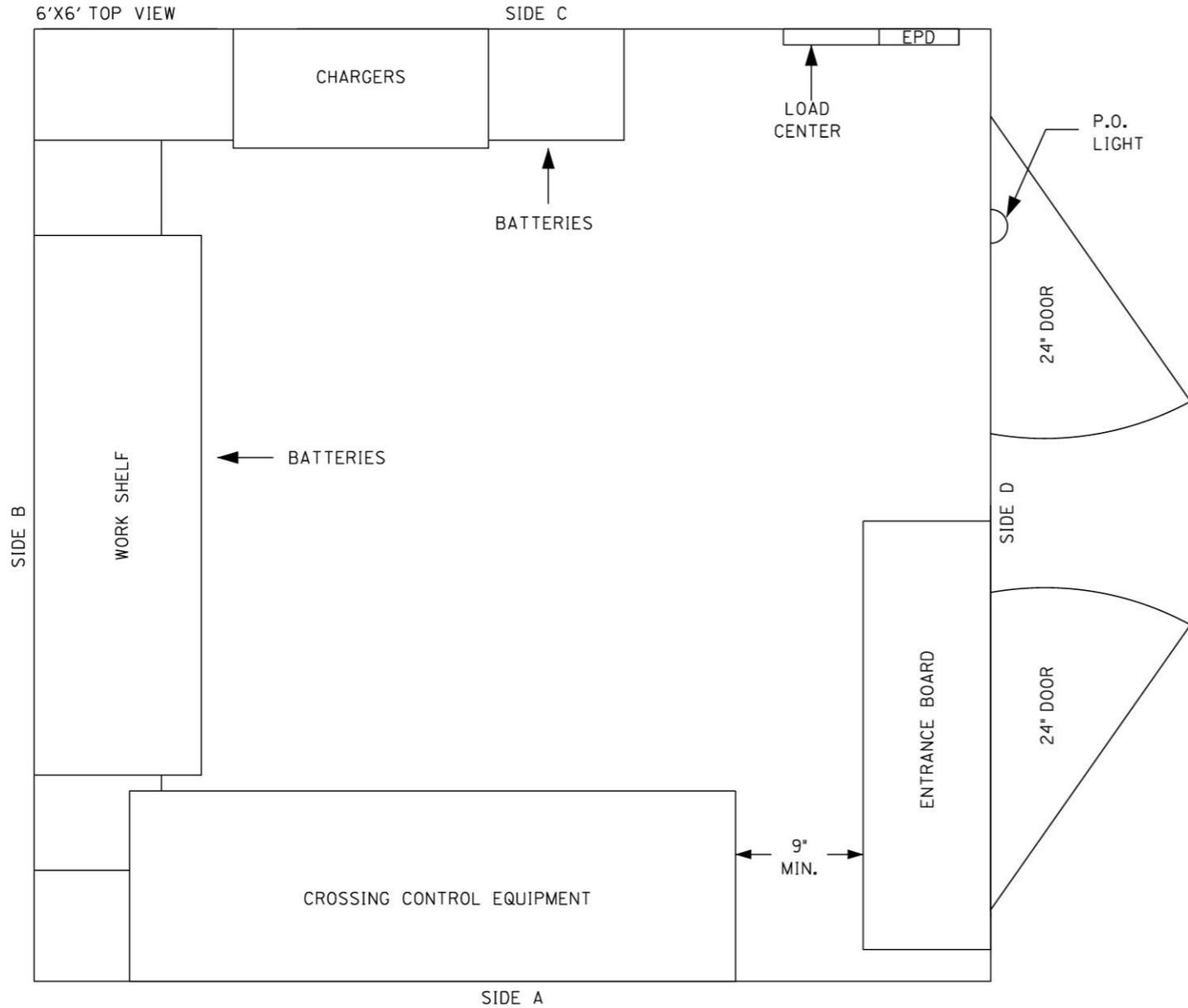
P.O. BOX 788 101 RJ CORMAN DR
NICHOLASVILLE, KY 40356



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REV 01

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CHERRY TREE SUBDIVISION

DATE: 11/07/23
FILE: CH02220.15
SHEET 15

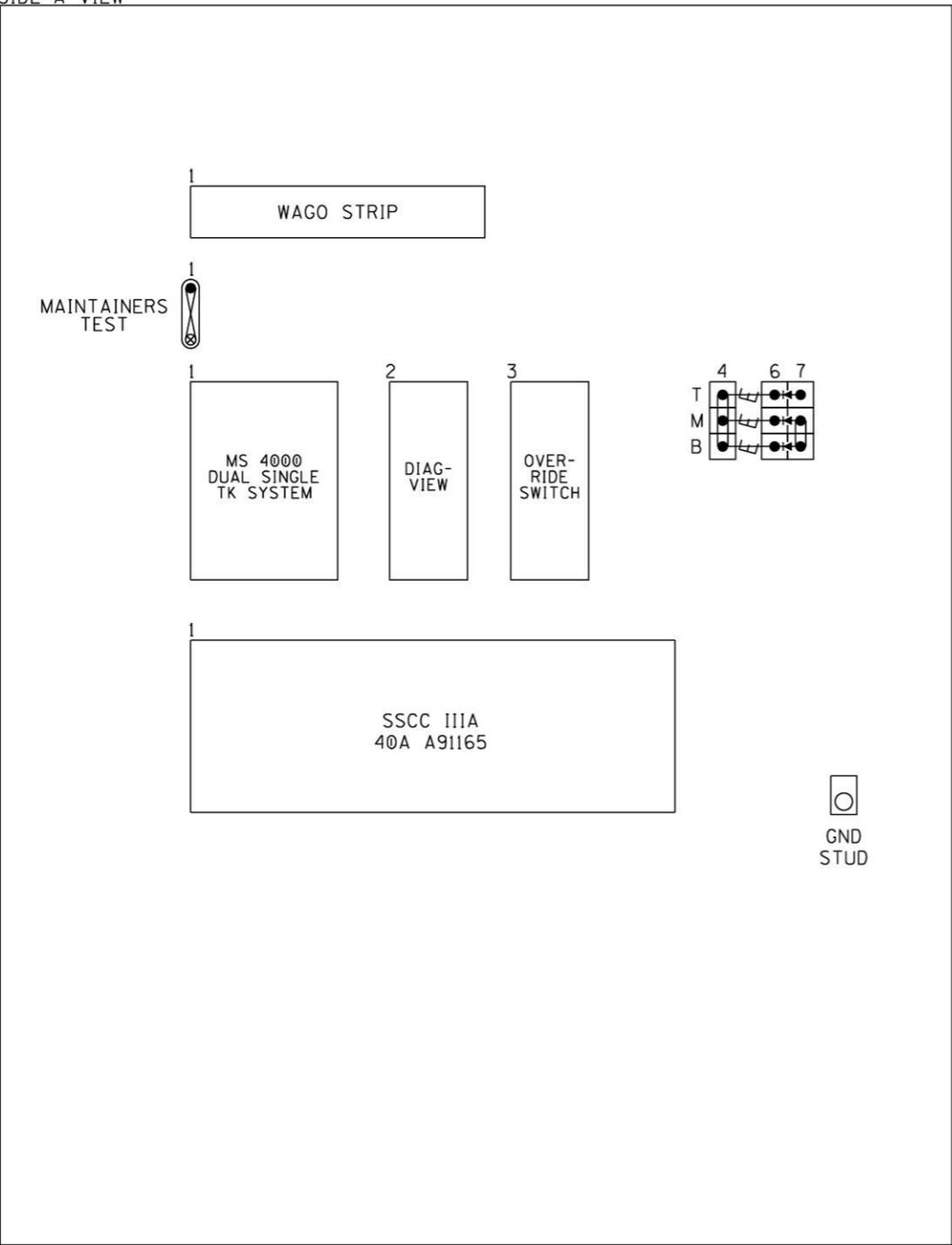


6'X6' SHELTER LAYOUT - TOP VIEW

 RJ Corman Railroad <small>P.O. BOX 788 101 RJ CORMAN DR NICHOLASVILLE, KY 40356</small>		
DESIGNED BY: MRM	SR 219	DATE: 11/07/23
DIGITIZED BY: RJC	MAHAFFEY, PA	FILE: CH02220.16
CHECKED BY: MGH	M.P. 022.20 D.O.T. 527-113P	SHEET 16
REV 01	CHERRY TREE SUBDIVISION	

SIDE A VIEW

A
B
C
D
E



- NOTE:
-  = TEST LINK
 -  = TEST NUT
 -  = 2-3/8" BLOCK

6' X 6' HOUSE - SIDE "A"

 RJ Corman Railroad <small>P.O. BOX 788 101 RJ CORMAN DR NICHOLASVILLE, KY 40356</small> 		
DESIGNED BY: MRM DIGITIZED BY: RJC CHECKED BY: MGH REV 01	SR 219 MAHAFFEY, PA M.P. 022.20 D.O.T. 527-113P CHERRY TREE SUBDIVISION	DATE: 11/07/23 FILE: CH02220.17 SHEET 17

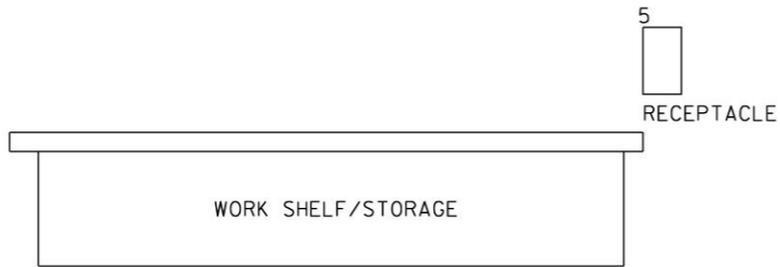
SIDE B VIEW

A

B

C

D



6' X 6' HOUSE - SIDE "B"



RJ Corman Railroad

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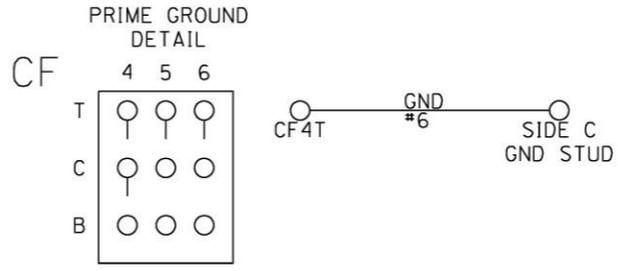
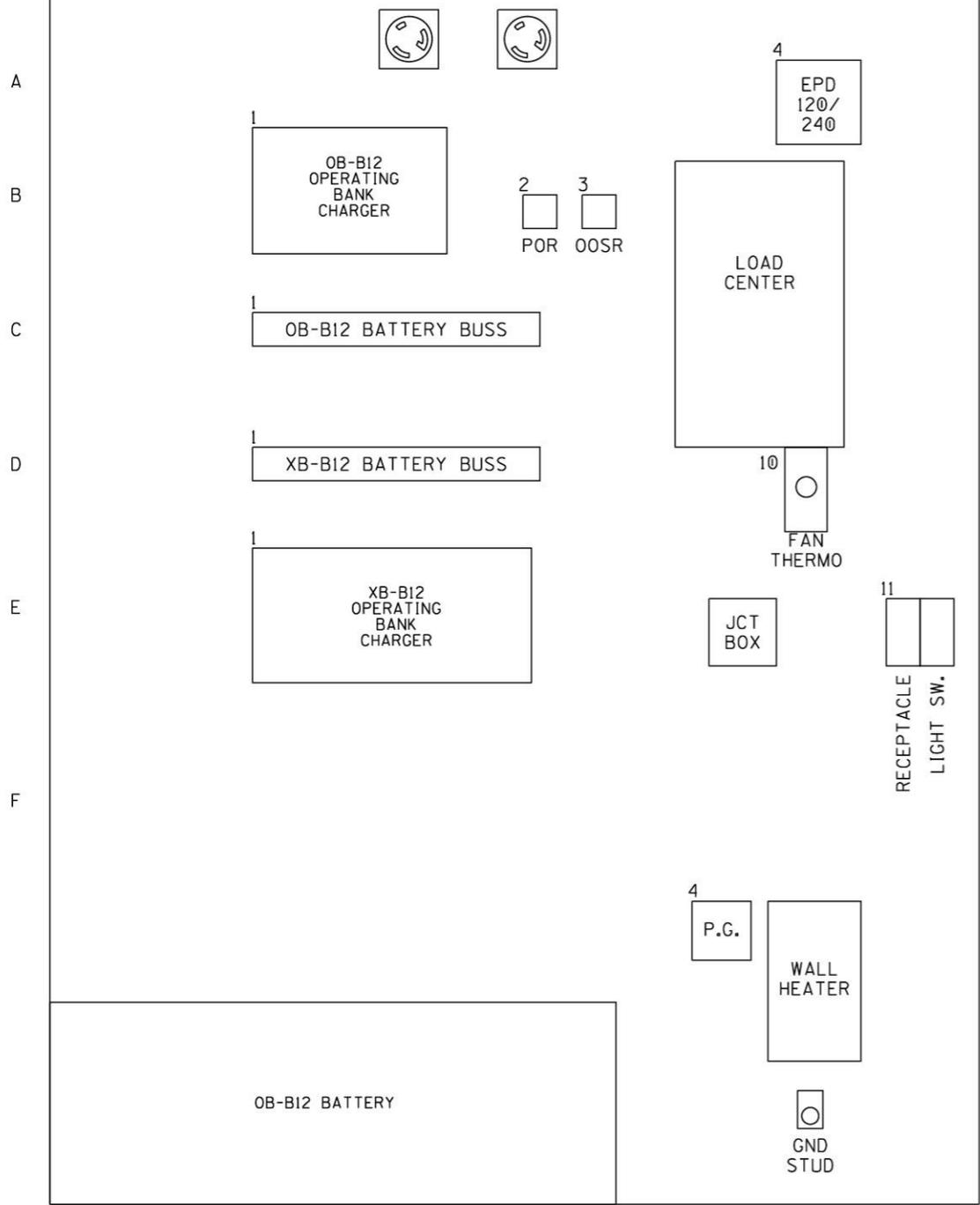


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DIGITIZED BY: RJC
CHECKED BY: MGH
REV 01

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CHERRY TREE SUBDIVISION

DATE: 11/07/23
FILE: CH02220.18
SHEET 18

SIDE C VIEW



6' X 6' HOUSE - SIDE "C"

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DESIGNED BY: MRM DIGITIZED BY: RJC CHECKED BY: MGH REV 01	SR 219 MAHAFFEY, PA M.P. 022.20 D.O.T. 527-113P CHERRY TREE SUBDIVISION	DATE: 11/07/23 FILE: CH02220.19 SHEET 19

SIDE D VIEW

E

GEMS
P.O.L.



DOOR

ENTRANCE BOARD

EMERGENCY SWITCH
BEHIND TERMINAL BOARD

6' X 6' HOUSE - SIDE "D"



RJ Corman Railroad

P.O. BOX 788 101 RJ CORMAN DR
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DATE: 11/07/23
FILE: CH02220.20
SHEET 20