Sta. 1051+76

FOR LOCAL WIRING
see Sheet Nº 83A.

3B
8RB
8RA
3A
1
2R
C B A

L202ATB L202ARBI
L202ATN
L202V
L202 AT BX5B
L202 AT BX5A
L202 AT BX5
L202 AT BX6
L202 AVRA
P S D CL
L202ATBX4B
L202ATBX1
L202 ATBX
NL202AVR
L202A — 3XIB
5N-4R
3DN
3DR
L202AVR
L202ACXE
2RAR1
N2RAR1
BPBX110
L202ATBX7
10
RDER
BX55
R2G6
RDER
NRDER
L202ATBX1A
BPCX110
2RAR
L202ATBX4A
L202ATBX4
N2RAR
L202HT
L202HR2
NL202HR2
ISBB
ISBN
BPER
NBPER

BP CX110
R2CRG
R2CHG
BP CX110
R2ARG
2RCH
N2RH
2RCHR
2RCH
BP CX110
R2AG4
R2AG3
R2AG2
R2QEM
R2BG2
2RCH
R2BG3
R2MR2
R2BRG
R2MR2
L202DDR2
L202ATBX4B
NL202DDR1
L202ATBX2
5VS1
L202AC XW
L202DDRI
NL202DDRI
NR2MRI
R2MR3
NR2MR2
N2RH
BPBX110
R2G5
5VS
R2BG2
R2AG2
R2DR
R2N
R2AGI
R2AHG
R2BGI
R2BRG
R2DR
L202ABX XW
L202ACXW
L202ANXW
R2N
L 202AT BX4A
L 202AT BX4
L202DDR3
L202ATBX3
5VS
R2B
R2N
BPBX110
BPCX110
2RAR
N2RAR
NR2MRI
N2RH
RDER
NRDER

BP CX110
R2ARG
R2AHG
R2ADG
2RAHPR
R2AHG
R2BRG
R2BDG
2RCH
R2MRI
R2DDR
4N4R
2DN2DR
MI5
R2AHG
R2ADG
R2DDRI
NR2DDR
L202DDR3
L202ATBX3
2RAHP
N2RAHP
RDBX110
RDCX110
R2B

RD BX110
RD CX110
5RB
5RN
5TR
MOD. 15
8F-4B
5VS2
500
5VS
5VS
5TP
N5TP
5VSPI
N5VSP
R2B
R2N

ISBB
ISBN
R2B
R2N
BPBX110
BPCX110
R2G5
R2G6
L202HR2
NL202HR2
R2MR3
NR2MR2
2RAR1
N2RAR1
L202DDRI
NL202DDRI
L202AVR
L202ACXE
BPER
NBPER

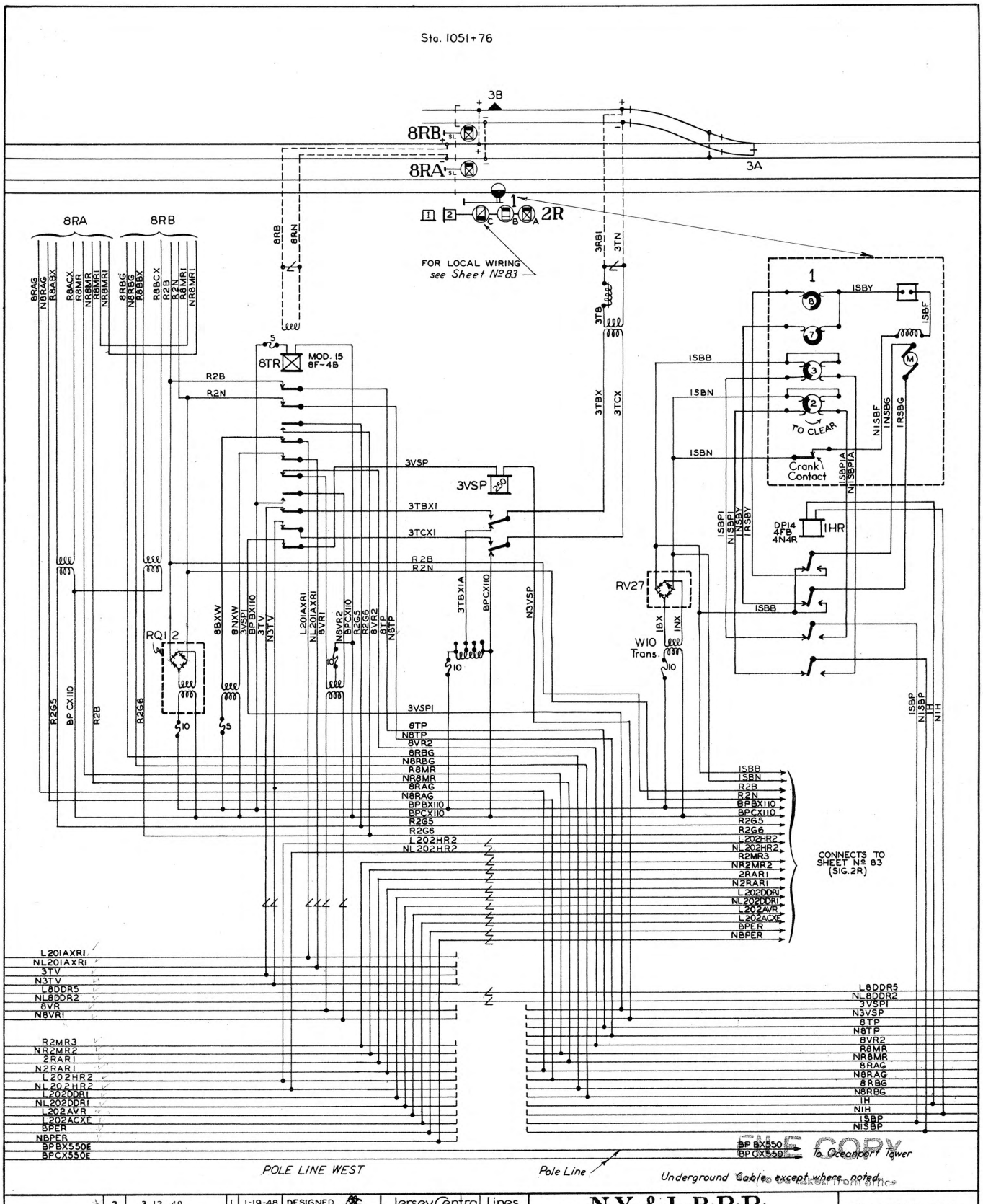
2RAHP
N2RAHP
2RCH
N2RH
BPBX110
BPCX110
R2MRI
NR2MRI
2RAR
N2RAR
R2DDRI
NR2DDR
5TP
N5TP
5VSPI
N5VSP
RDER
NRDER
RDBX110
RDCX110

CONNECTS TO SHEET Nº 83A

CONNECTS TO TOWER

All wires in Underground Cable

	2 5-27-49	1 1-19-48	DESIGNED	Jersey Central Lines Office of Signal Engineer 4-18-47	N·Y· & L·B·R·R·	Sheet Nº 83 *Continued on Sheet 83A*
	REVISED A/C OF RELOCATION OF SIG. L202, ELIMINATION OF SIG. L212, SIG. L214 RENUMBERED L212 JHM.	REVISED AS INSTALLED. MPS	DRAWN FWG		Oceanport Draw Signal 2R	
			INKED IN MSP		CIRCUITS *for* AUTOMATIC BLOCK & CAB SIGNAL SYSTEM	SD-L001-C
			APPROVED	BP. 3-16-2 TRCG. 3-17-3		



2	3-12-49	1	1-19-48	DESIGNED	Jersey Central Lines Office of Signal Engineer 4-17-47	N·Y· & L·B·R·R· Oceanport Draw Sig. 1, 8RA & 8RB. CIRCUITS for AUTOMATIC BLOCK & CAB SIGNAL SYSTEM	Sheet Nº 83A
REVISED ACC'T. AUTO-GATE-FLASHER IN-STALLATION AT JOLINE AND BRANCHPORT AVES WJY		REVISED AS INSTALLED. MPS		DRAWN FWG			SD-L001-C
				INKED IN			
				APPROVED	BP 3-16-2	TRCS. 3-17-3	

Sta. 1051+76

3B

3A

8RB SL

8RA SL

1

1 2 C B A 2R

FOR LOCAL WIRING
see Sheet Nº 83

8RA 8RB

8RAG N8RAG R8ABX R8ACX R8MR NR8MR R8MRI NR8MRI

8RBG N8RBG R8BBX R8BCX R2B R2N R8MRI NR8MRI

8RB 8RN

3RBI 3TN

3TB

3TBX 3TCX

5 8TR MOD. 15 8F-4B

R2B R2N

3VSP 3VSP 250

3TBX1 3TCX1

R2B R2N

3TBX1A BPCX110

N3VSP

RQ1 2

8BXW 8NXW 3VSPI BPBX110 3TV N3TV

L201AXRI NL201AXRI 8VR1 N6VR2 BPCX110 R2G5 R2G6 8VR2 8TP N8TP

10 5 10

R2G5 BPCX110 R2B R2G6

3VSPI
8TP
N8TP
8VR2
8RBG
N8RBG
R8MR
NR8MR
8RAG
N8RAG
BPBX110
BPCX110
R2G5
R2G6
L202HR2
NL202HR2

RV27

IBX INX

W10 Trans.

10

1

ISBY ISBF

8

7

ISBB

3

ISBN

2

TO CLEAR

ISBN

Crank Contact

ISBPIA NISBPIA

NISBF INSBG IRSBG

ISBPI NISBPI NSBY IRSBY

DP14 4FB 4N4R 1HR

ISBB

ISBP NISBP IH NIH

ISBB
ISBN
R2B
R2N
BPBX110
BPCX110
R2G5
R2G6
L202HR2
NL202HR2
R2MR3
NR2MR2
2RAR1
N2RAR1
L202DDR1
NL202DDR1
L202AVR
L202ACXE
BPER
NBPER

CONNECTS TO SHEET Nº 83 (SIG. 2R)

L201AXRI
NL201AXRI
3TV
N3TV
L8DDR5
NL8DDR2
8VR
N8VR1

R2MR3
NR2MR2
2RAR1
N2RAR1
L202HR2
NL202HR2
L202DDR1
NL202DDR1
L202AVR
L202ACXE
BPER
NBPER
BPBX550E
BPCX550E

L8DDR5
NL8DDR2
3VSPI
N3VSP
8TP
N8TP
8VR2
R8MR
NR8MR
8RAG
N8RAG
8RBG
N8RBG
IH
NIH
ISBP
NISBP

BP BX550
BP CX550

To Oceanport Tower

POLE LINE WEST

Pole Line

Underground Cable except where noted

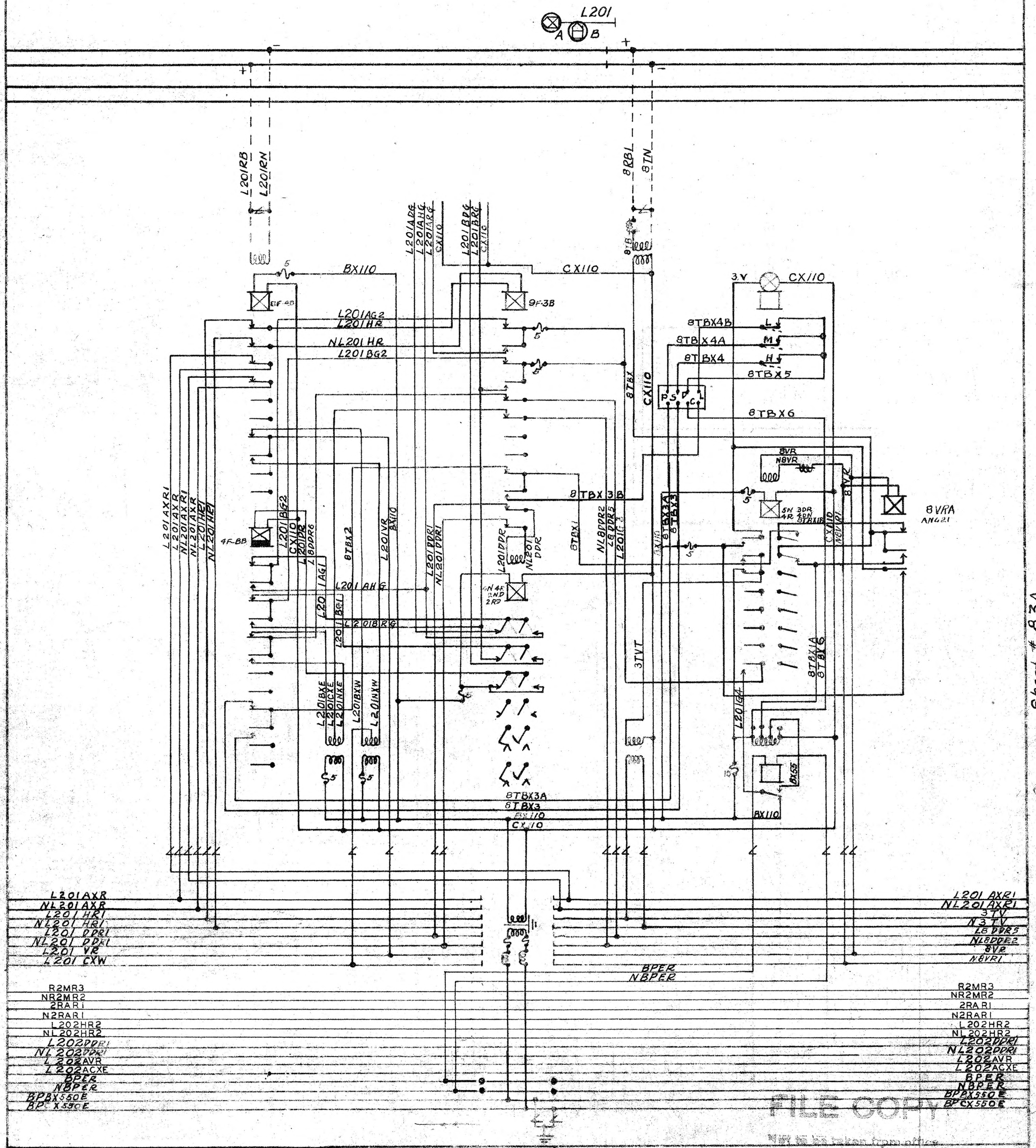
CONNECTS TO SHEET Nº 84.

CONNECTS TO TOWER

FILE COPY

2 3-12-49 REVISED ACC'T. AUTO-GATE-FLASHER IN-STALLATION AT JOLINE AND BRANCHPORT AVES WJY	1 1-19-48 REVISED AS INSTALLED. MPS	DESIGNED	Jersey Central Lines Office of Signal Engineer 4-17-47	N·Y· & L·B·R·R· Oceanport Draw Sig. 1, 8RA & 8RB. CIRCUITS for AUTOMATIC BLOCK & CAB SIGNAL SYSTEM		Sheet Nº 83A
		DRAWN FWG				SD-L001-C
		INKED IN				
		APPROVED	BP. 3-16-2	TRCS. 3-17-3		

Sta. 1066+65



Connects to Sheet # 85

Connects to Sheet # 83A

FILE COPY

2	3-12-49	1	1-19-47	7	4-11-47	Designed JRM	C.R.R. Co. of N.J. Office of Signal Engineer 7-2-27.	N.Y. & L.B.R.R. Branchport, N.J. Signal L201 Circuits for Automatic Block & Cab Signal System
	Revised acct. Auto-Gate, Flasher installation at Joline and Branchport Aves. W.J.Y.		Revised as installed. MPS.		Revised a/c installation of relay interlocking at Oceanport draw. MPS.	Drawn W.C.V.		
						Traced C.S.H.		
						Checked J&V. HRM.	BP. 3-16-2 Treg. 3-17-3	188 Orders Sheet No. 84 SD- L- 001-C

Sta. 1081+20

Port-Au-Peck Ave.

L201A

L202A

CONNECTS TO SHEET NO. 86

CONNECTS TO SHEET NO. 84

Transformer Located one Pole East of Crossing

DESIGNED	Jersey Central Lines Office of Signal Engineer 6-1-49	N.Y. & L.B.R.R	Sheet No. 85
DRAWN J.M.		Branchport, N. J. Port-Au-Peck Ave.	SD-L001-C
CHECKED		Circuits for Automatic Block and Cab Signal System	
APPROVED	B.P. 3-16-2 TRCG. 3-17-3		

Sta. 1091+90

L202

L212ERB1
L212ETN
L202RB
L202RN
CX110
L202BRG
L202BDG
L202ARG
L202AHG
L202ADG
BX110
5
8F4B
8F 4B
L212ETBX4B
L212ETBX4A
L212ETBX4
L212ETBX5
L212ETBX6
L212ETBX
L212EVR
NL212EVR
L212ETBX3B
L212EVRA
ANL 21
5N4R 3PR4DN
L212ETBX1B
L212ETBX1
L212ETBX1A
L212EVR1
NL212EVR1
2RAR2
N2RAR2
L212ETBX6
L212HT
L212V
BX55
L202G4
L202G3
L212DDR1
NL212DDR1
L202DDR
NL202DDR
4N4R 2ND 2DR
L202AXR1
NL202AXR1
L202BXE
L202BXF
L212ETBX2
L202CXW
L212DFR2
L202BG2
L202AG2
L202VR
4F8B
L202ADR
L202AHG
2AG1
L202BG
L202BRG
L202BXW
L202NXW
L202AXR
NL202AXR
L202HR1
NL202HR1
2RAR1
N2RAR1
L202AXR1
NL202AXR1
L212ETBX3A
L212ETBX3
CX110
BX110
R2MR4
NR2MR3
L202HR
NL202HR
5
P S P C
TB

Connects to Sheet 87

Connects to Sheet 85

BX110
CX110
L202G4

L202AXR1
NL202AXR1
L201HR2
NL201HR2
L201DDR1
NL201DDR1
L201AVR
L201ACXW
L203AWXR2
NL203AWXR
R2MR4
NR2MR3
2RAR2
N2RAR2
L212HR1
NL212HR1
L212DDR1
NL212DDR1
L212EVR
NL212EVR1
BPEN
NBPER
BPBX550E
BPCX550E

L202AXR
NL202AXR
L201HR2
NL201HR2
L201DDR1
NL201DDR1
L201AVR
L201ACXW
L203AWXR2
NL203AWXR
R2MR3
NR2MR2
2RAR1
N2RAR1
L202HR1
NL202HR1
L202DDR1
NL202DDR1
L202VR
L202CXE
BPER
NBPER
BPBX550E
BPCX550E

FILE COPY
Not to be taken from office

*	8	3-12-49	7	4-11-47	6	6-29-46	DESIGNED JRM.	C.R.R.Co. of N.J. OFFICE OF SIGNAL ENGINEER 7-1-27
		Revised acc't. Auto-Gate and Flasher installation at Joline and Branchport Aves. Sh. No Was85 W.J.Y.		Revised a/c installation of relay interlocking at Oceanport "prow". MPS.		Revised a/c Removal of flashers & Myrtle Ave. Oceanport vacated. (Office file 1226 MPS	DRAWN J.C.T.	
							TRACED J.J.H	
							CHECKED J&V.	BP. 3-16-2 Trcg. 3-17-3

N. Y. + L. B. R. R.
BRANCHPORT, N. J. SIGNAL L202.
Circuits for Automatic Block & Cab Signal System

188 SHEETS SHEET No 86

SD-L001-C

Sta. 1091+90

L203

A B

L203RB L203RN

L201ARBI L201ATN

CX110

L203TR 8F-4B

L203AG2 L203HR NL203HR L203BG2

L203AGX L203AHG L203ARG CX110

L203BRG L203BKG CX110

8F4B

L201ATBX3B

L203HRI NL203HRI BX110

L203 AGI L201ATBX2 L203 BGI L203 BRG

L203 BXE L203 CXE L203 NXE L203BXW L203NXW L203VR L203DDRI NL203DDRI

L203 DDR2 CX110 L203BR L201DDR2

L203 DDR NL203DDR

L201ATBXI NL201DDRI L203G3 CX110

4N4R 2ND2PR

L201HT

L201ATBX3A L201ATBX3 BX110

L201ATBX3A L201ATBX3 3X110 CX110

L201ATBX4B L201ATBX4A L201ATBX4 L201ATBX5

L201V

L201ATBX6

5N 3PR 4R4PN L201ATBX1B

L201AVRA ANL21

L201ATBX1A L201ATBX6 CX110 L201ACXW L201AVR

L202G4

BX110 CX110 L202G4

L202AXRI NL202AXRI L203HRI NL203HRI L203DDRI NL203DDRI L203VR L203CXW L203AWXR2 NL203AWXR R2MR4 NR2MR3 2RAR2 N2RAR2 L212HRII NL212HRII L212DDRI NL212DDRI L212EVR NL212EVRI BPER NBPER BPBX550E BPCX550E

L202AXRI NL202AXRI L201HR2 NL201HR2 L201DDRI NL201DDRI L201AVR L201ACXW L203AWXR2 NL203AWXR R2MR4 NR2MR3 2RAR2 N2RAR2 L212HRII NL212HRII L212DDRI NL212DDRI L212EVR NL212EVRI BPER NBPER BPBX550E BPCX550E

FILE COPY
Must not be taken from office

Connects to Sheet #86.

Connects to Sheet #88

?

	7 3-12-49 Revised acct Auto-Gate, Flasher installation at Joline and Branchport Aves. W.J.Y.	Designed J.R.M. Drawn Traced C.J.H. Checked J.S.V.	C.R.R. Co. of N.J. Office of Signal Engineer JULY-1-1927. BP. 3-16-2 Trcg. 3-17-3	N. Y. & L. B. R. R. Branchport, N.J. Signal L203 Circuits for Automatic Block & Cab Signal System	188 Sheets Sheet No 87 S.P. L - 001-C

J.J.H.

WIA

Branchport Ave.

For Automatic Gates- Flashers
See Sheets No. 88A & B

L203B

L203A

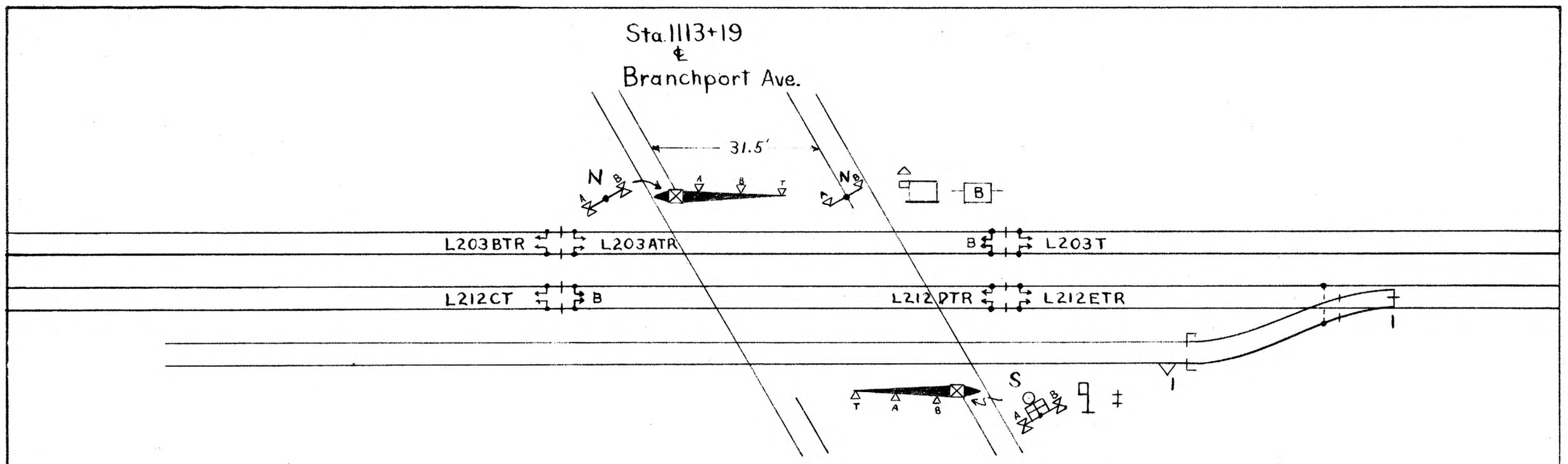
L203BRB
L203BRN
L203ARB
L203ARN
L203ARBX
L203ATBX
L203ATCX
L203ATR
2FB
RTA-104
L203ATBI
L+ L203ATNI
L- L203ATB
B+ L203ATB
B- L203ATN
L203ATB2
S500
32-A-14
L203ATP
L203RBI
L203TN
L203 TB
L203TBX
L203TCX
6FB
L203ATP
L203VR
4N 2DN
4R 2DR
L203BVR2
L203BKXR2
L203TBXI
3TCX1
3AWXR1
3TBX1A
L203BVR2
L203BBXW
L203AWXR2
BX110
CX110
2EXS (Sh 88A)
L203BTR
8F4B
L203HR4
NL203HR4
L203HR3
L203ATBX
NL203HR3
L203ATCX
L203TBX1A
CX110
L203BKXR1
L203BVR1
L203BNXW
B
L203TBX1A
L203BBXW
L203BKXR2A
L203HR2
NL203HR2
L203BKXR3
L203VR
L203CXW
(Sh.88A) 2EXS
L203HR5
NL203HR5
L203AEXR2
NL203AEXR1
L203AEXR1
NL203AEXR
L203BVR
L203BKXR
L203BCXW
L203TBX1A
BX110
CX110
To Local Circuits Branchport Ave.
L203BKXR
L203BKXR2A
L203BKXR3
L203AEXR1
NL203AEXR
B
C
L203AWXR1
NL203AWXR
L203ATP
L202AXR1
NL202AXR1
L203AEXR2
NL203AEXR1
L203 HR5
NL203 HR5
L203 PDR1
NL203 PDR1
L203BVR
L203BCXW
R2MR4
NR2MR4
2RAR2
N2RAR2
L212 HR11
NL212 HR11
L212 PDR1
NL212 PDR1
L212EVR
NL212EVR1
BPER
NBPER
BPBX550E
BPCX550E
L202AXR1
NL202AXR1
L203HR1
NL203HR1
L203 PDR1
NL203PDR1
L203VR
L203CXW
L203AWXR2
NL203AWXR
R2MR4
NR2MR3
2RAR2
N2RAR2
L212 HR11
NL212 HR11
L212 PDR1
NL212 PDR1
L212EVR
NL212EVR1
BPER
NBPER
BP BX550E
BP CX550E

Connects to Sheet No. 88C

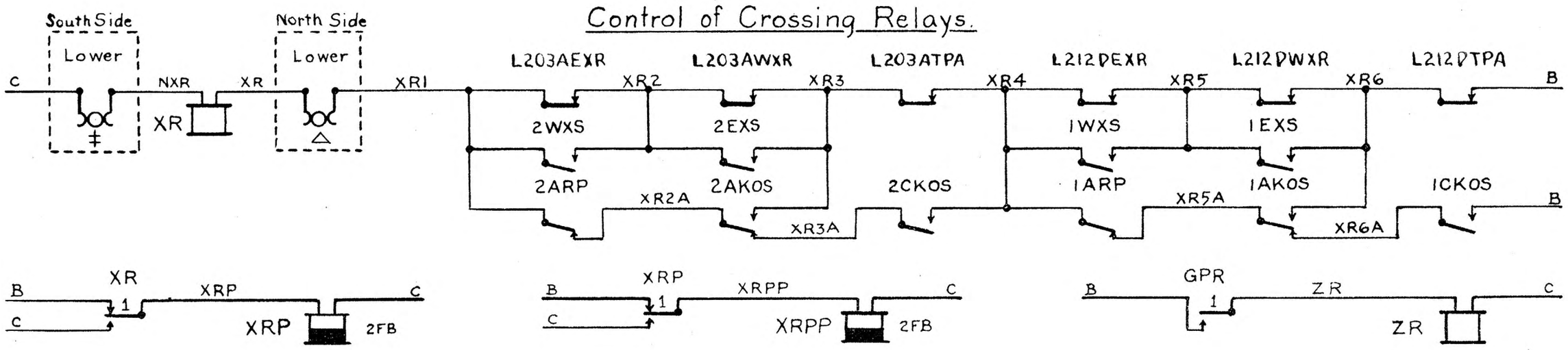
Connects to Sheet No. 87

FILE COPY
Plans not to be taken from office

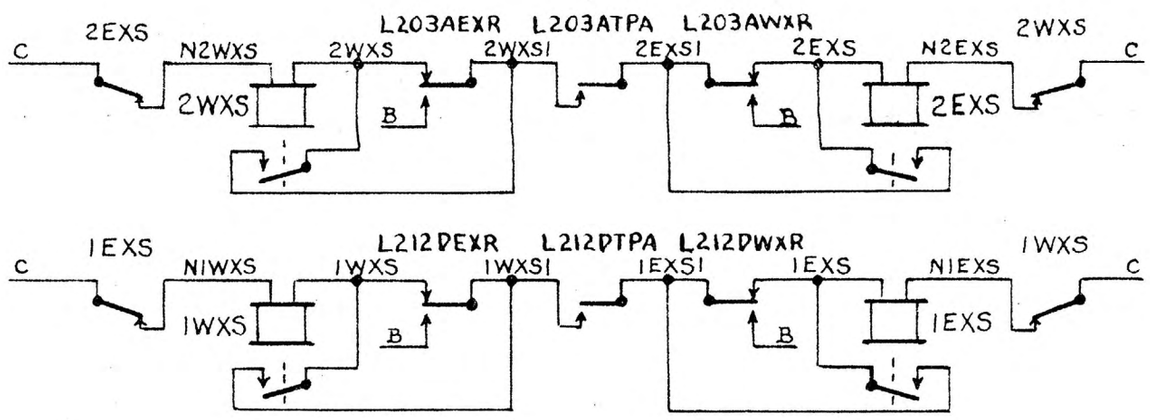
1 7-30-49	Designed	Jersey Central Lines Office of Signal Engineer. 3-16-49	N.Y. & L.B.R.R. Long Branch, N.J. Branchport Ave. Circuits for Automatic Block and Cab Signal System	Sheets Sheet No. 88
L203ATR Made Prim. Battery Track Circuit JRS	Drawn F.W.G.			SD-L001-C
	Checked			
	Approved	B.P. 3-16-2 Trcg. 3-17-3		

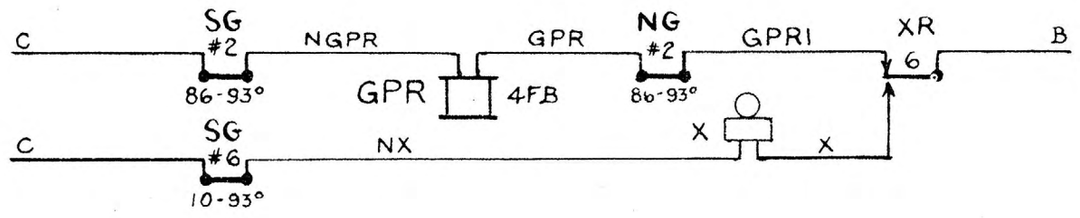


Control of Crossing Relays.

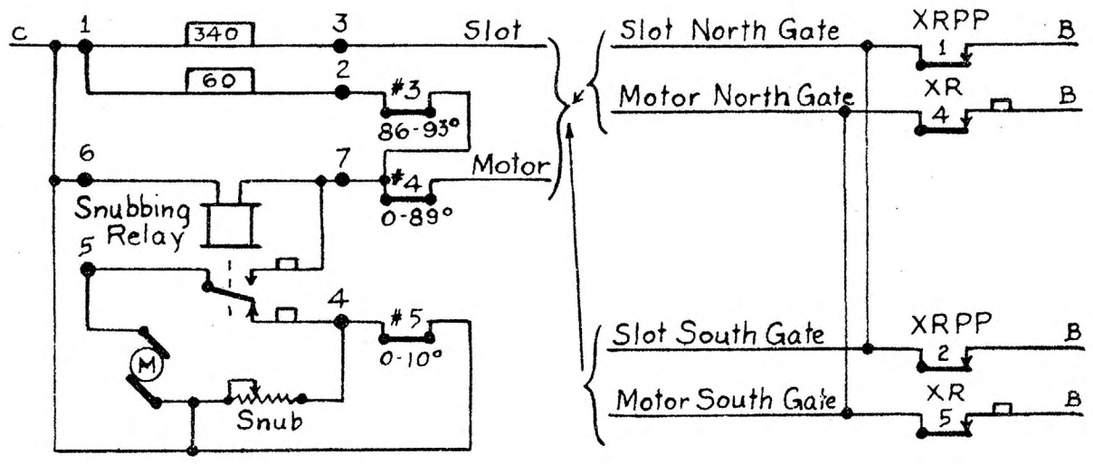


Directional Stick Relays.

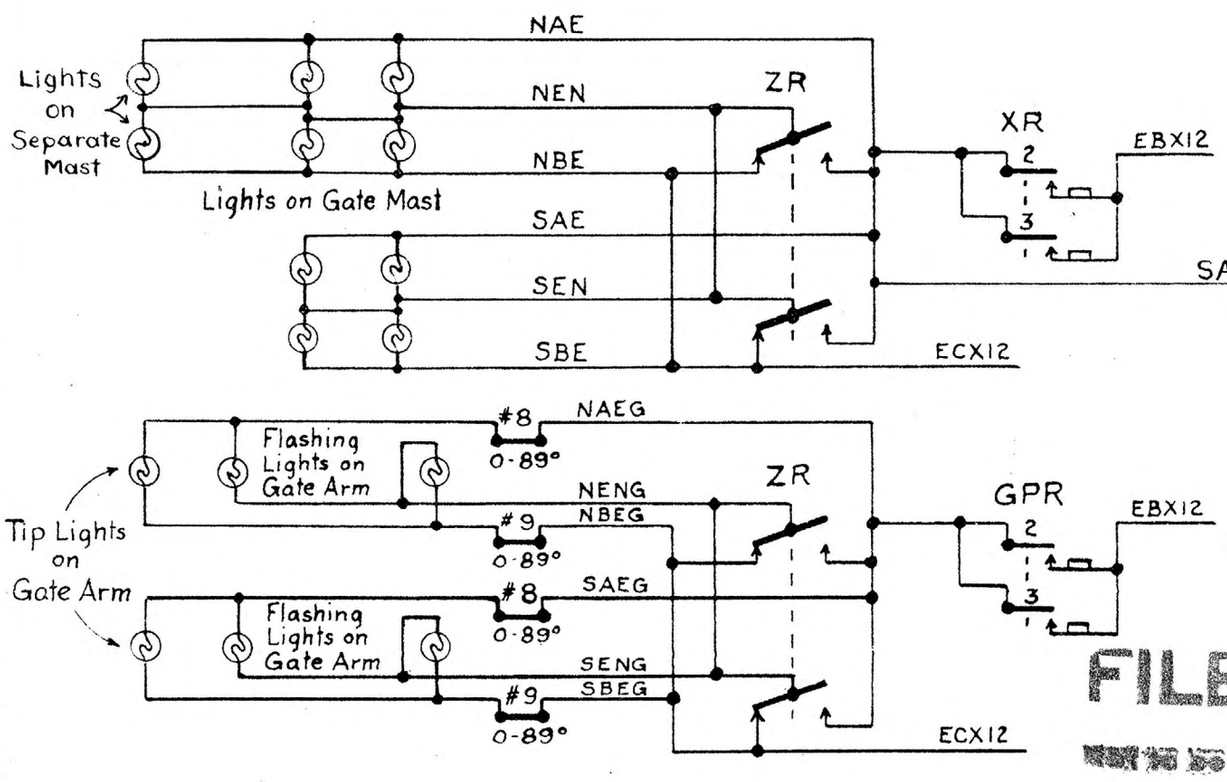




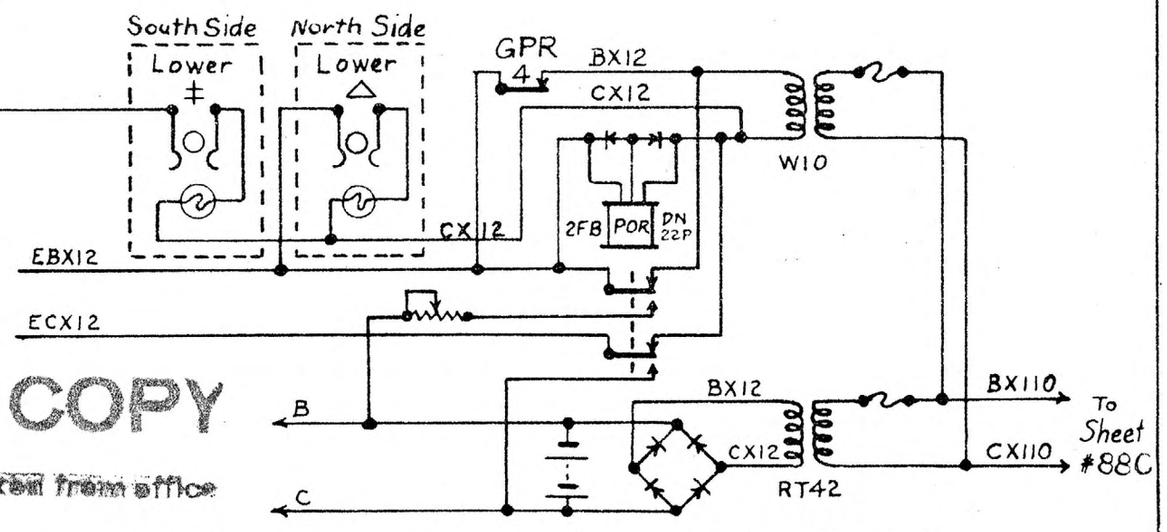
Typical Wiring of Gate Mechanisms.



Control of Flashing Lights.



Power and Power-Off Controls.



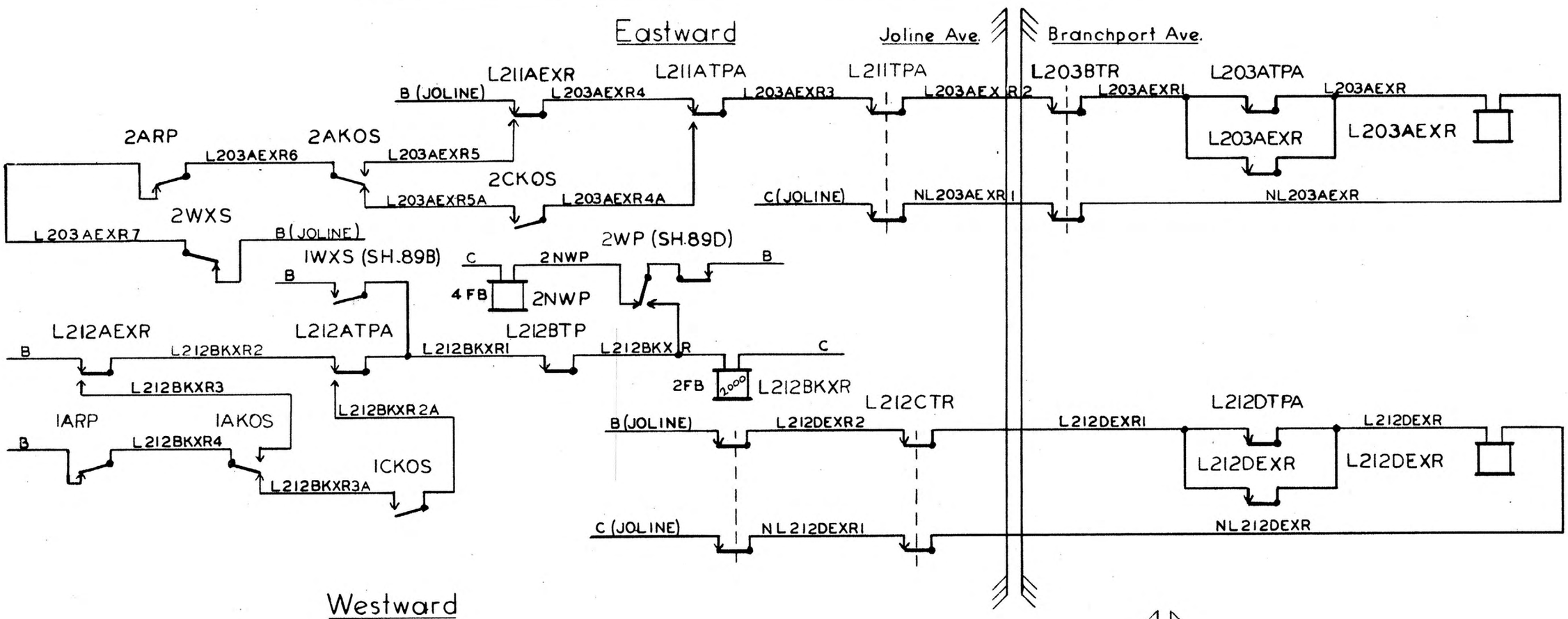
FILE COPY
Must not be taken from office

△ = Key operated box for raising gates, lowering gates & power supply test. (Located on instrument housing - north side of tracks.)
‡ = Key operated box for raising gates, lowering gates & power supply test. (Located on pipe pedestal - south side of tracks.)

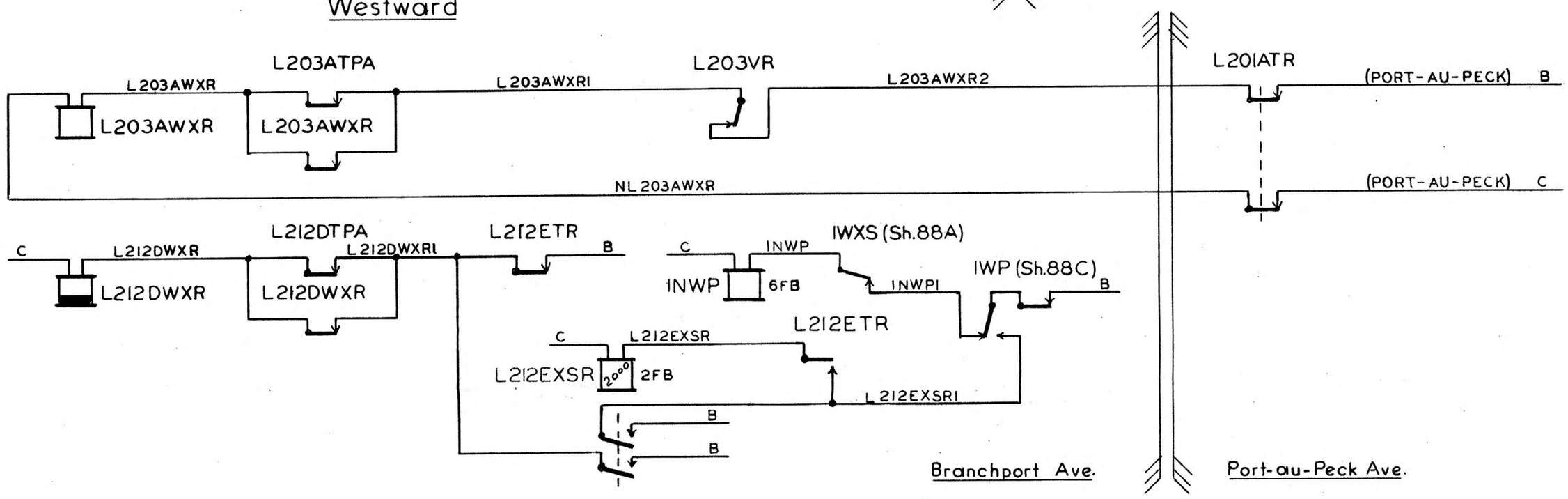
	1-8-1-49 L203ATR & L212DTR Made Prim. Battery Track Circuits JRS	Designed Drawn F.W.G. Checked Approved	Jersey Central Lines Office of Signal Engineer. 3-3-49 B.P. 3-16-2 Trcg. 3-17-3	N.Y. & L.B.R.R. Long Branch, N.J. Branchport Ave. Circuits for Automatic Block & Cab Signal System.	Sheets Sheet No. 88A SD-L001-C

Approach Relay Controls Branchport Ave.

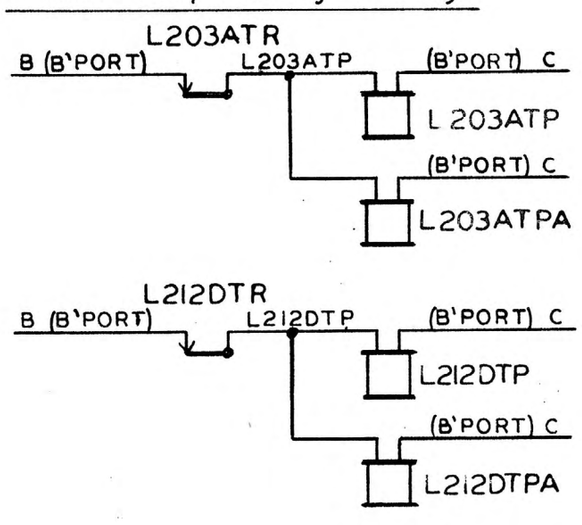
Eastward

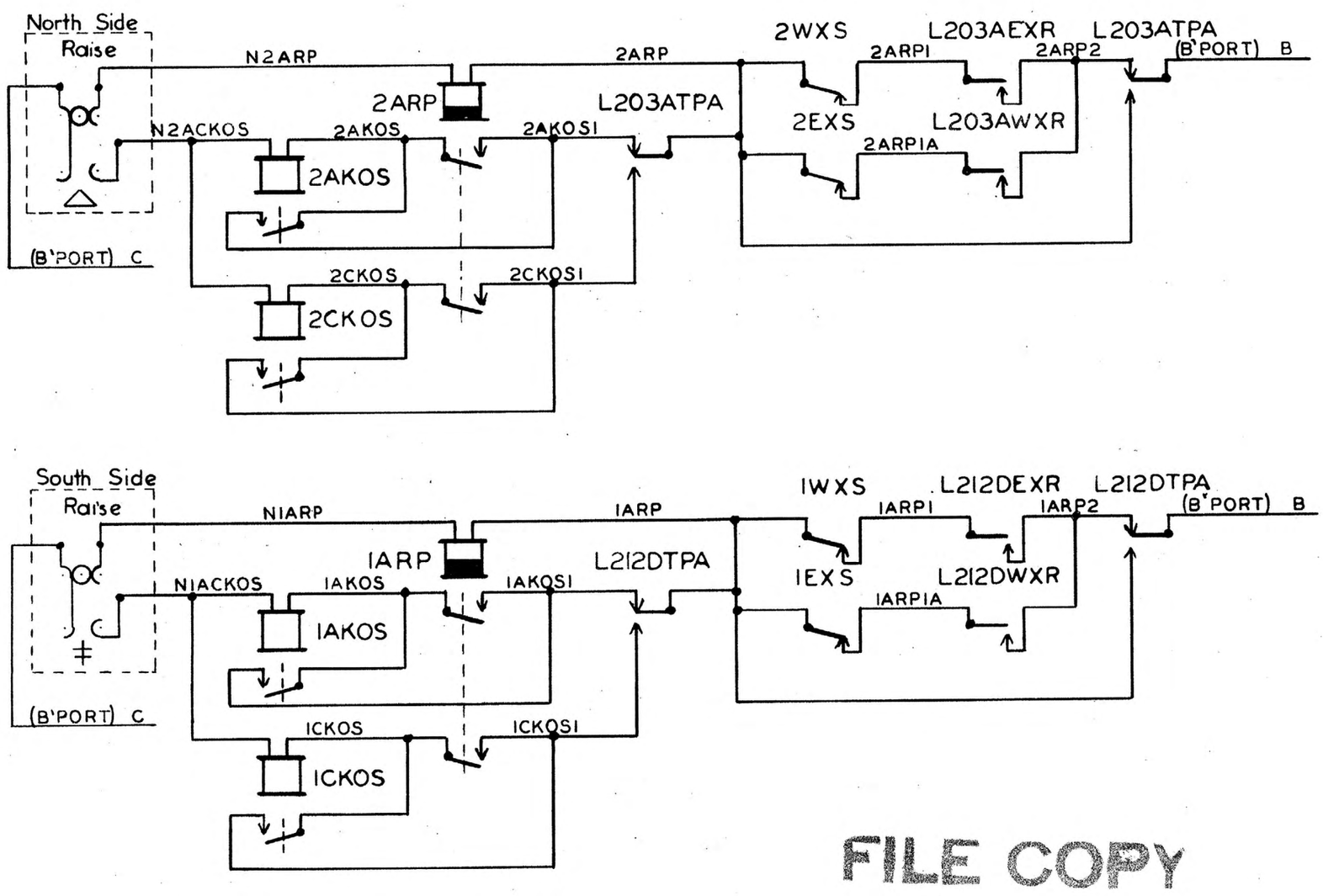


Westward



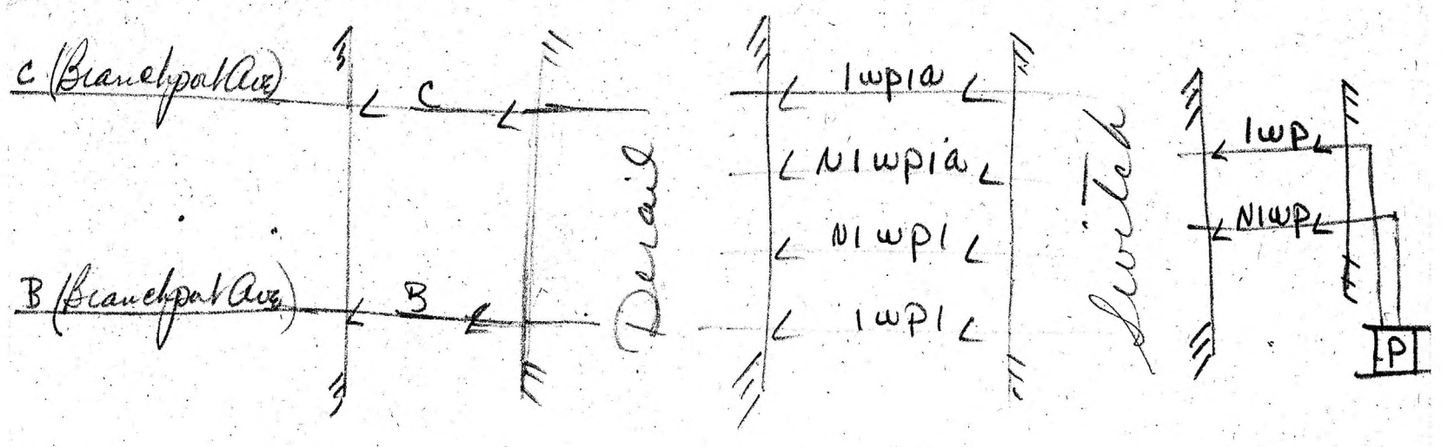
Track Repeating Relays





FILE COPY
Not to be taken from office

1-8-1-49 L212BTPA Contact in L212BKXR Ckt Mod. L212BTP Rc	DESIGNED	Jersey Central Lines Office of Signal Engineer 3-11-49	N.Y. & L.B.R.R. Long Branch, N.J. Branchport Ave. Circuits for Automatic Block and Cab Signal System	Sheet No. 88B
	DRAWN J.M.			SD-L001-C
	CHECKED			
	APPROVED	B.P. 3-16-2 TRCG. 3-17-3		

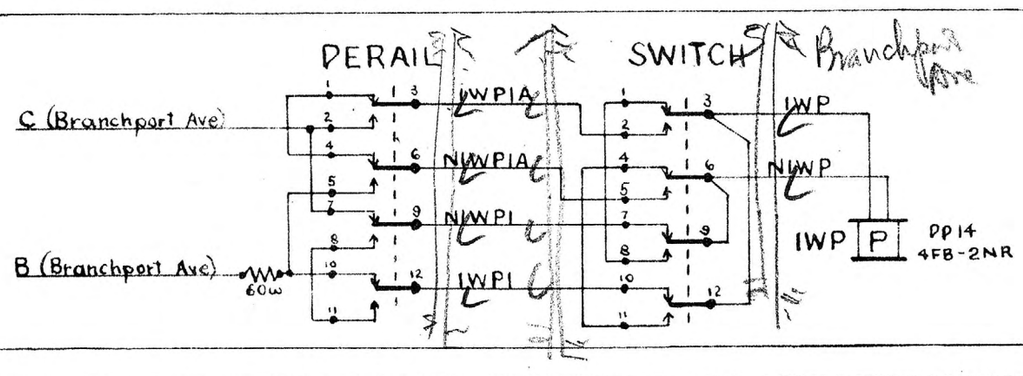


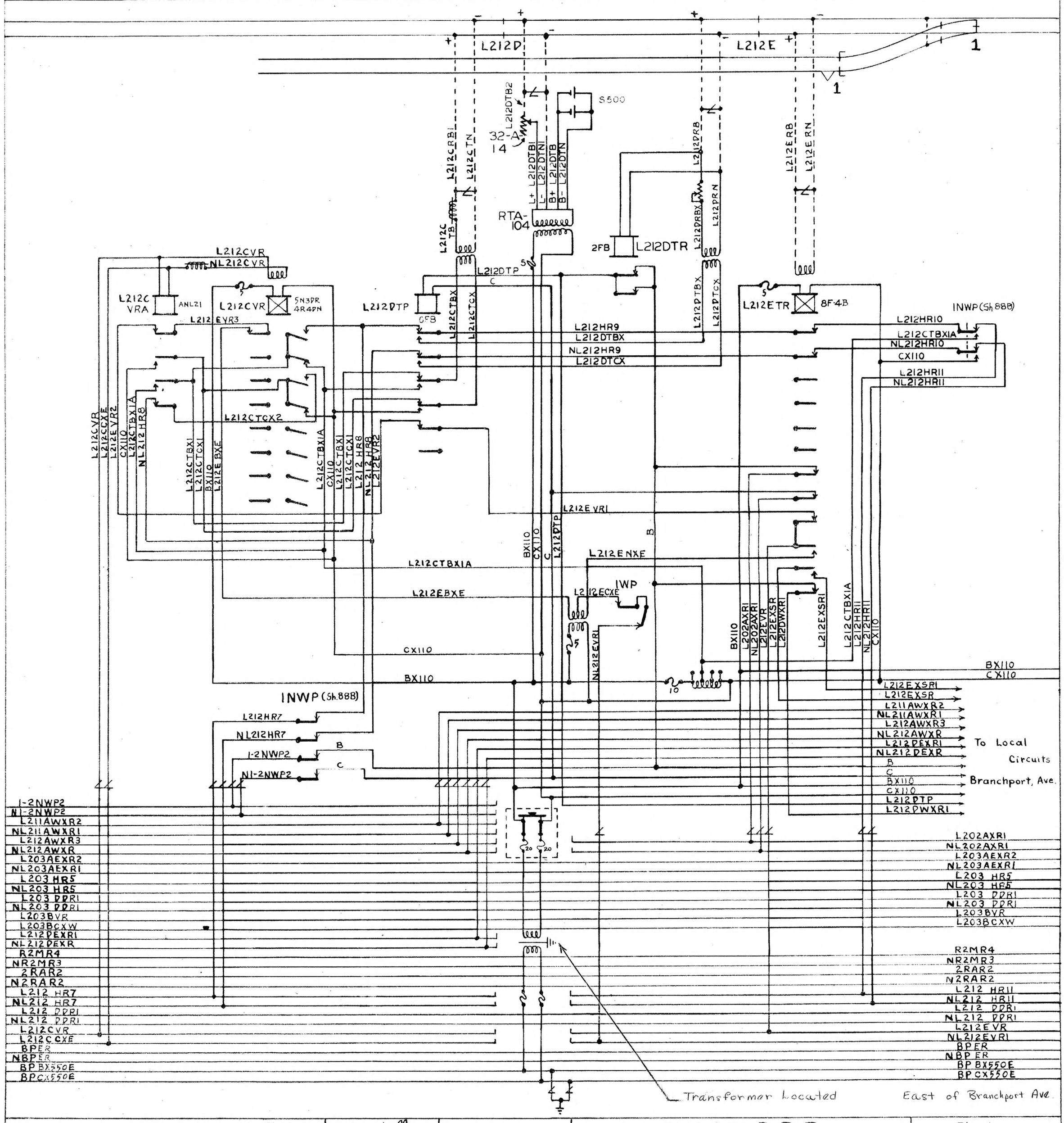
Selenoid Signal Mast Transformer

Branchport Ave.

For Automatic Gates - Flashers

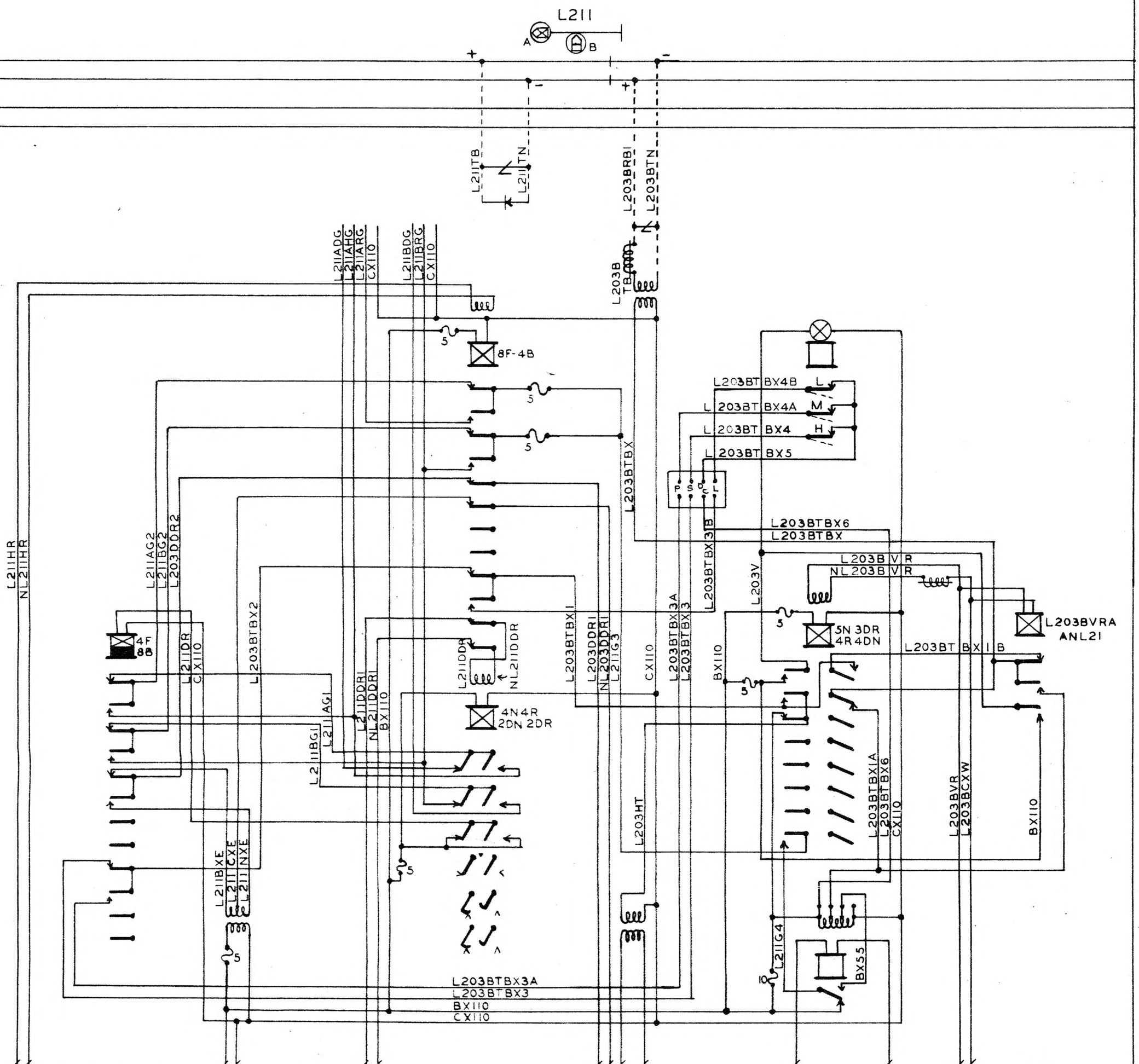
See Sheets No. 88A & B





	Designed	Jersey Central Lines Office of Signal Engineer 3-17-49	N.Y. & L.B.R.R. Long Branch, N.J. Branchport Ave. Circuits for Automatic Block and Cab Signal System.
	Drawn F.W.G.		Sheets Sheet No. 88C
	Checked		SD-L001-C
	Approved	B.P. 3-16-2 Trcg. 3-17-3	

Sta. 1118+85



CONNECTS TO SHEET NO. 89A

CONNECTS TO SHEET NO. 88C

1-2NWP2	1-2NWP2
N1-2NWP2	N1-2NWP2
L211AWXR2	L211AWXR2
NL211AWXRI	NL211AWXRI
L212AWXR3	L212AWXR3
NL212AWXR	NL212AWXR
L203AEXR2	L203AEXR2
NL203AEXRI	NL203AEXRI
L211HR	L203HR5
NL211HR	NL203HR5
L211DDRI	L203DDRI
NL211DDRI	NL203DDRI
BX110	L203BVR
CX110	L203BCXW
L212DEXRI	L212DEXRI
NL212DEXR	NL212DEXR
R2MR4	R2MR4
NR2MR3	NR2MR3
2RAR2	2RAR2
N2RAR2	N2RAR2
L212HR7	L212HR7
NL212HR7	NL212HR7
L212DDRI	L212DDRI
NL212DDRI	NL212DDRI
L212CVR	L212CVR
L212CCXE	L212CCXE
BPER	BPER
NBPER	NBPER
BPBX550E	BPBX550E
BPCX550E	BPCX550E

DESIGNED	Jersey Central Lines Office of Signal Engineer 3-26-49	N.Y. & L.B.R.R.	Sheet No. 89
DRAWN WJY		Long Branch, N.J. Sig. L211	SD-L001-C
CHECKED		Circuits for Automatic Block and Cab Signal System	
APPROVED	B P 3-16-2 TRCG 3-17-3		

Joline Ave.

For Automatic Gates & Flashers

See Sheets 89 B & C

L2118 L211A 2 2

W.E. Xover shown on sheet 89D

L2118RB L2118RN L211ARB L211ARN L211ATB2 S500 32-A-14 L211ATBI L+ L211ATNI L- L211ATB B+ L211ATB B- L211ATN L211RB L211RN

RTA-104

L211A RBX L211ATR 2FB L211ATBX L211ATCX L211 ATP C L211ATP 6FB L211 RBX L211TR 2FB L211TBX L211TCX L211TP C L211TP 8FB

2-4NWP 6FB L211BTR 8F 4B L211 HR4 L211 TBXIA NL211 HR4 CX110 L211 HR3 L211AT BX NL211HR 3 L211AT CX L211TBXIA L211 HR2 NL211 HR2 L211 TBXI L211 TCXI L211 TBXIA L211 BVR3 L211HRI NL211HRI 2-4NWP

2-4NWP N2-4NWP

2NWP (SH. 88B) 2ES (SH. 89B) 2-4NWPI N2-4NWPI

2EXS (SH. 89B)

2-4NWP2 N2-4NWP2 BX110 L211HR5 NL211HR5 CX110 2-4NWP B L211BV RI L211BVR2 L211ATP BX110 L211TBX L211TCX CX110 L211BVR2 C L211TBXIA B L211TP L211AWXRI NL211AWXR CX110 L211BBXW L211AWXR2 NL211AWXRI L211HR NL211HR C L211BN XW L211BBXW L211BCXW 5 10

BX110 CX110 BX110 CX110

To Local Circuits Joline Ave.

L203AEXR2 NL203AEXRI L211AEXRI NL211AEXR L211ATP L211TP L211AWXRI NL211AWXR B C

2-4NWP3 N2-4NWP3 I-2NWP2 NI-2NWP2 BX110 CX110 L212AWXR3 NL212AWXR L211AEXR2 NL211AEXRI L211HR5 NL211HR5 L211DDRI NL211DDRI L211BVR2 L212DEXRI NL212DEXR R2MR4 NR2MR3 2RAR2 N2RAR2 L212HR7 NL212HR7 L212DDRI L212CVR L212CCXE BPER NBPER BPBX550E BPCX550E

I-2NWP2 NI-2NWP2 L211AWXR2 NL211AWXRI L212AWXR3 NL212AWXR L203AEXR2 NL203AEXRI L211HR NL211HR L211DDRI NL211DDRI BX110 CX110 L212DEXRI NL212DEXR R2MR4 NR2MR3 2RAR2 N2RAR2 L212HR7 NL212HR7 L212DDRI NL212DDRI L212CVR L212CCXE BPER NBPER BPBX550E BPCX550E

CONNECTS TO SHEET NO. 89D

CONNECTS TO SHEET NO. 89

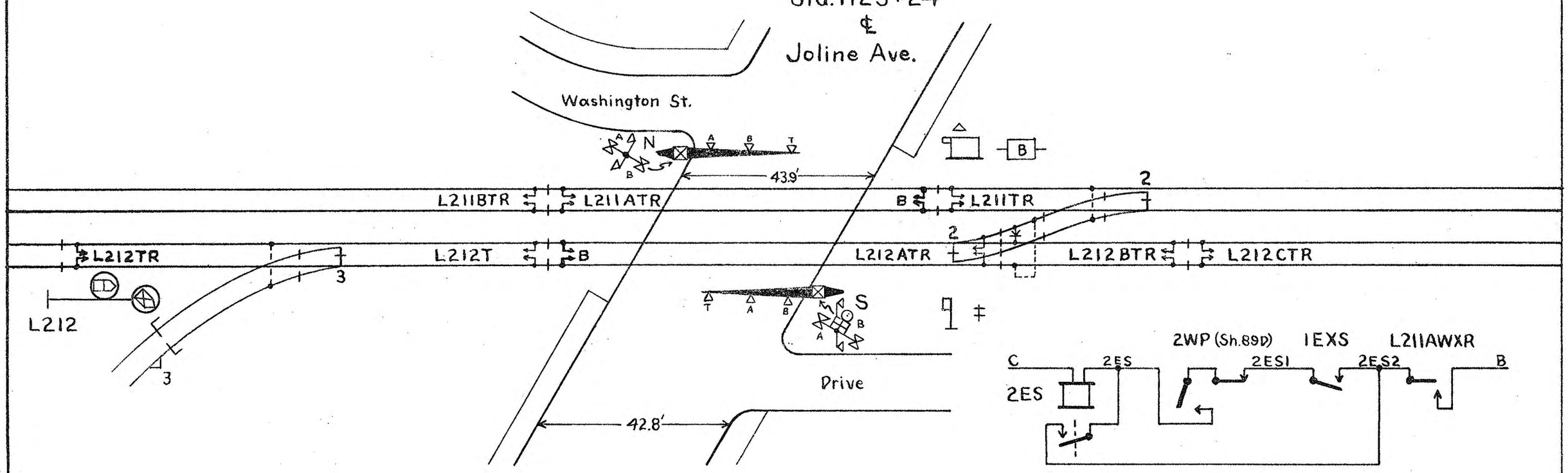
or dash lines indicate to run following wires

FILE COPY

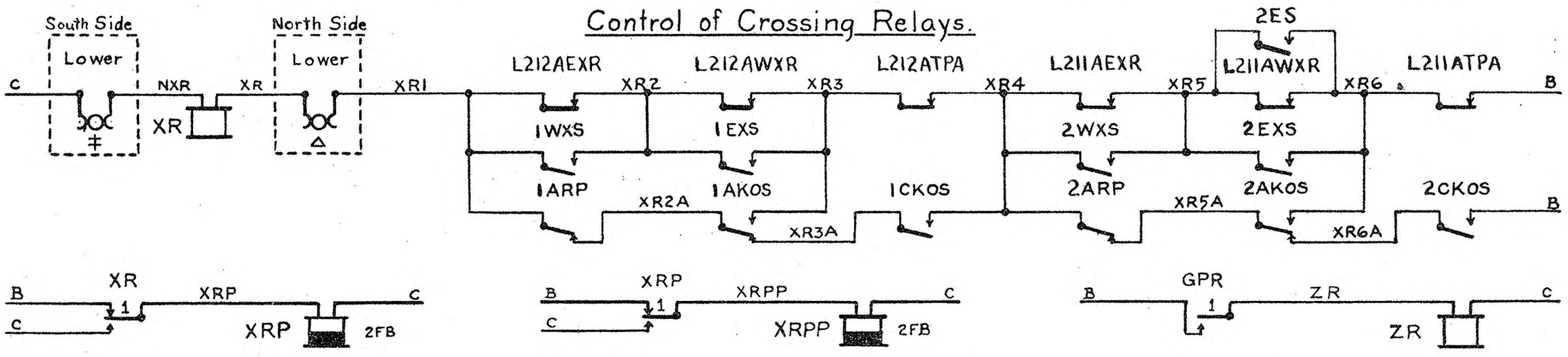
Not to be taken from office

21 1C 21 19

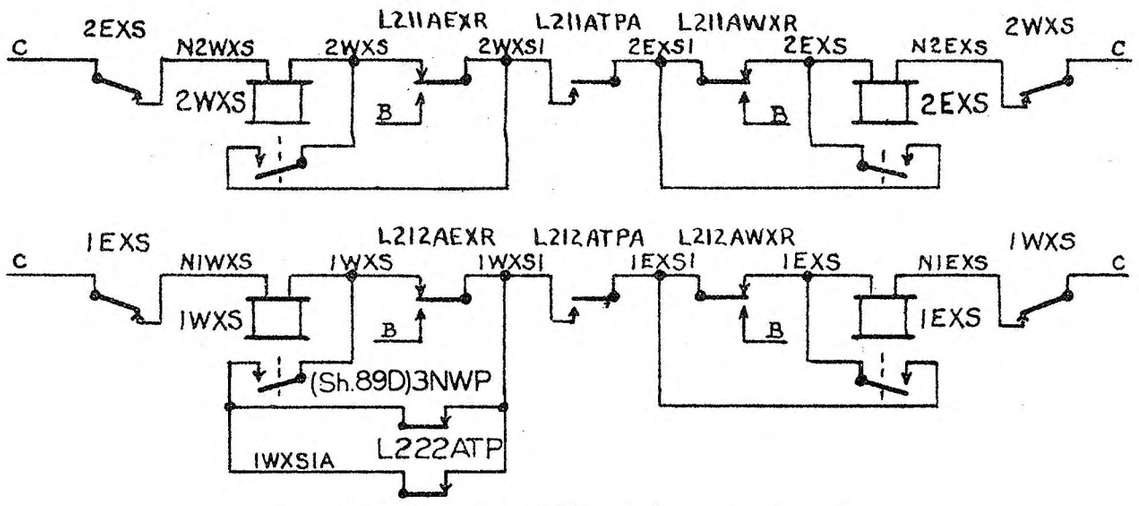
1 7-29-49 L211ATR MADE PRIMARY BAT. TRACK CIRCUIT TRS	DESIGNED	Jersey Central Lines Office of Signal Engineer 3-29-49	N.Y. & L.B.R.R. Long Branch, N.J. Joline Ave. Circuits for Automatic Block and Cab Signal System	Sheet No. 89A
	DRAWN WJY			SD-L001-C
	CHECKED			
	APPROVED	B.P. 3-16-2 TRCG. 3-17-3		



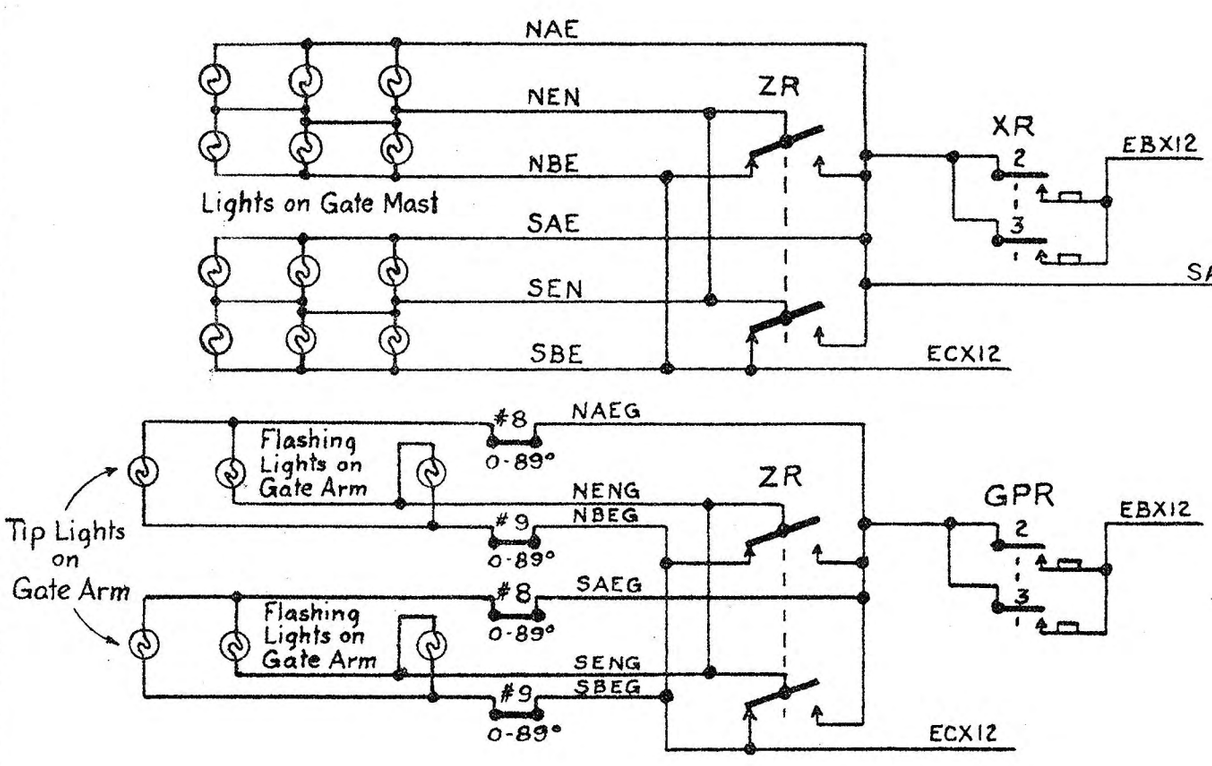
Control of Crossing Relays.



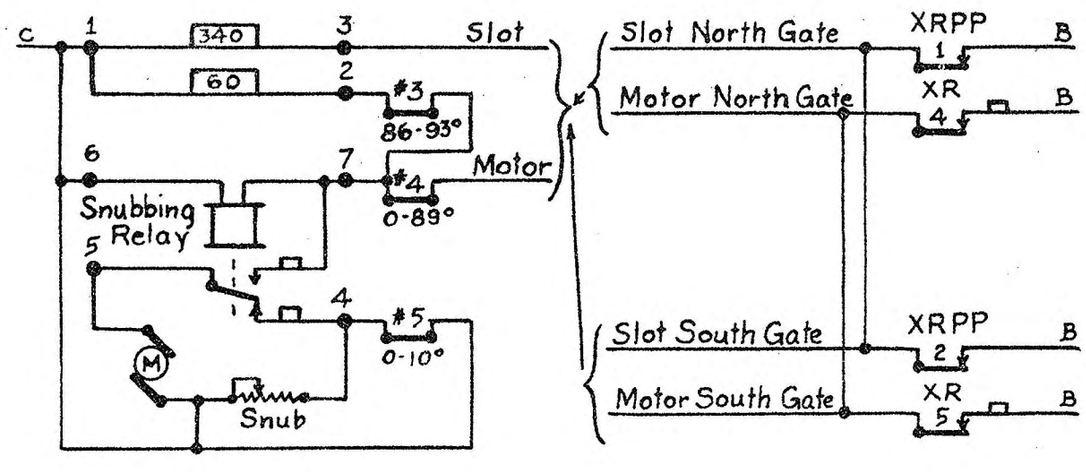
Directional Stick Relays.



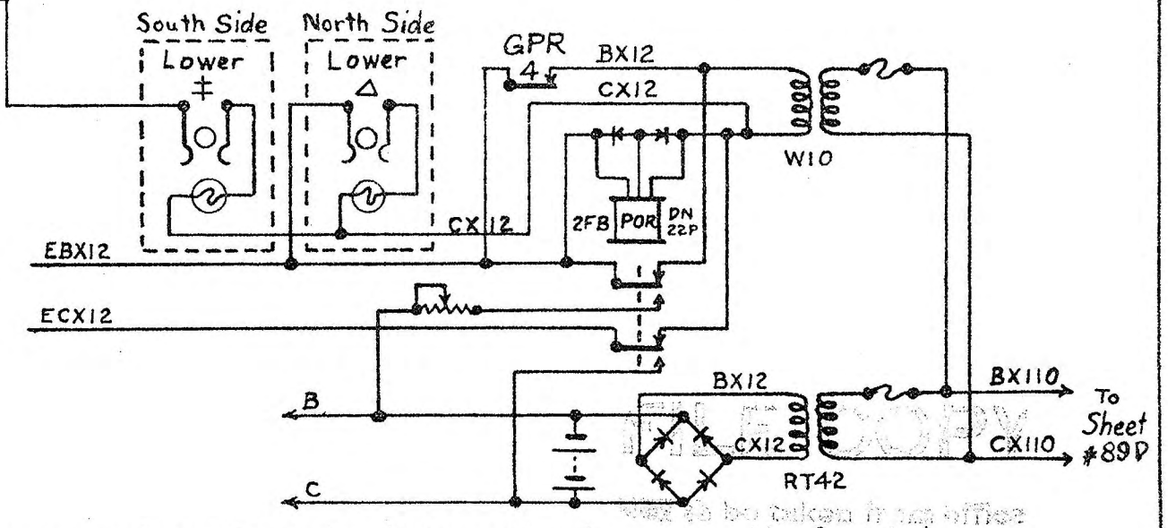
Control of Flashing Lights.



Typical Wiring of Gate Mechanisms.



Power and Power-Off Controls.

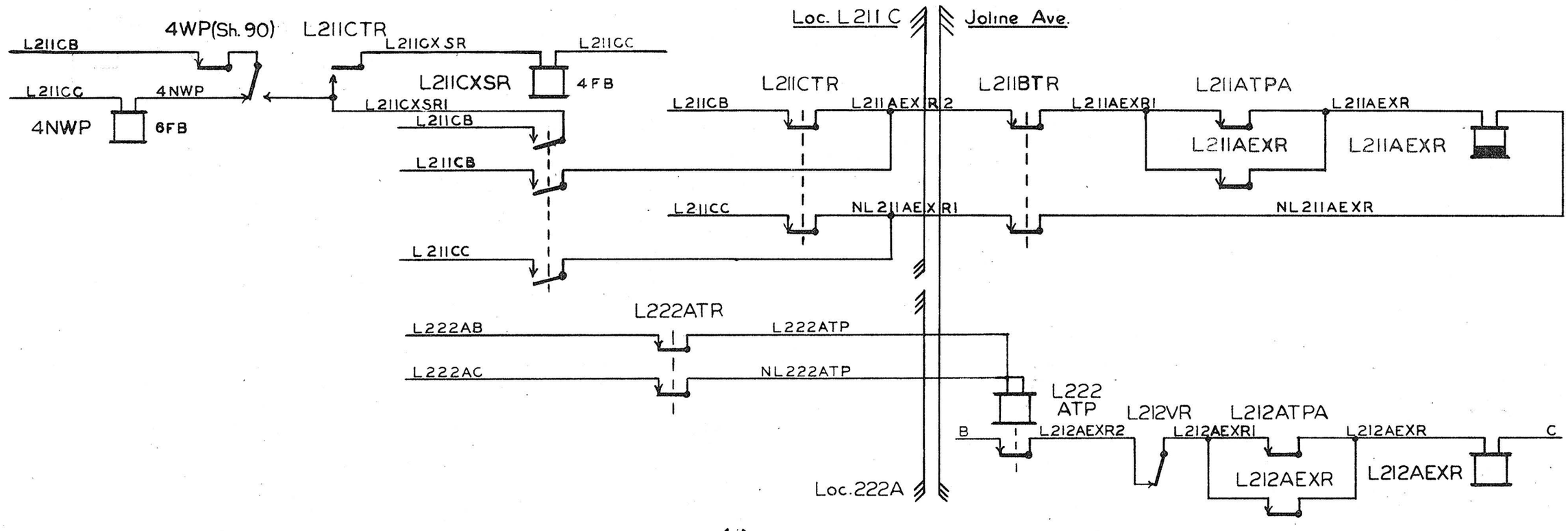


△ = Key operated box for raising gates, lowering gates & power supply test. (Located on instrument housing - north side of tracks.)
‡ = Key operated box for raising gates, lowering gates & power supply test. (Located on pipe pedestal - south side of tracks.)

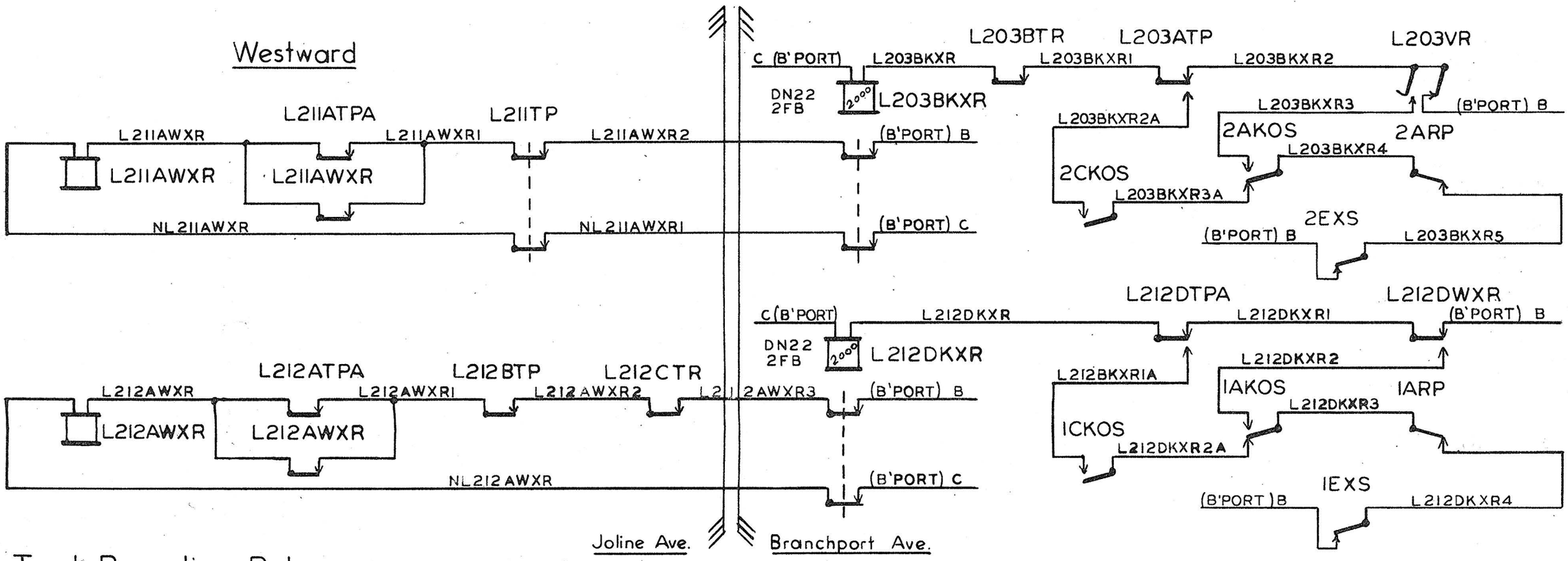
	2 9-7-49 IWXS CIRCUIT REVISED JM.	1 3-1-49 L211ATR & L212ATR Made Prim. Bat. Tr. Cts JM.	Designed	Jersey Central Lines Office of Signal Engineer. 3-3-49	N.Y. & L.B.R.R. Long Branch, N.J. Joline Ave. Circuits for Automatic Block & Cab Signal System	Sheets Sheet No. 89B
			Drawn FWG.			SD-L001-C
			Checked			
			Approved	B.P. 3-16-2	Trcg. 3-17-3	

Approach Relay Controls - Joline Ave.

Eastward

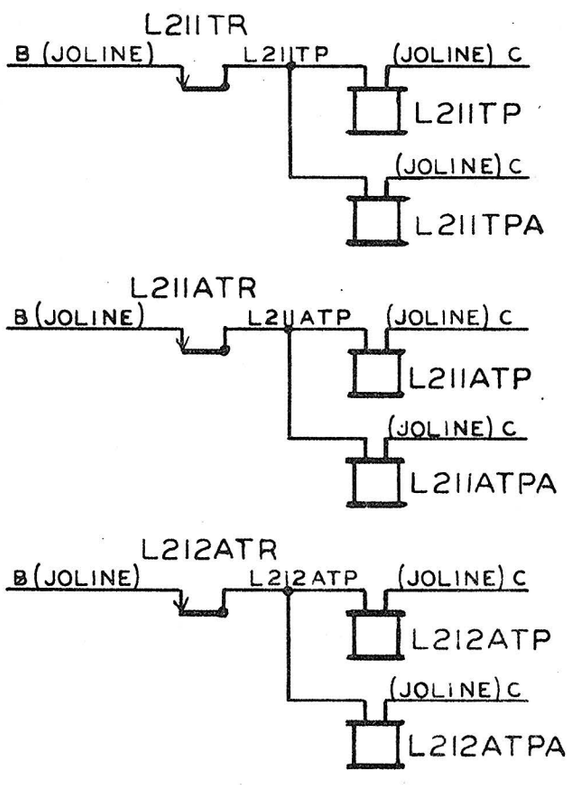


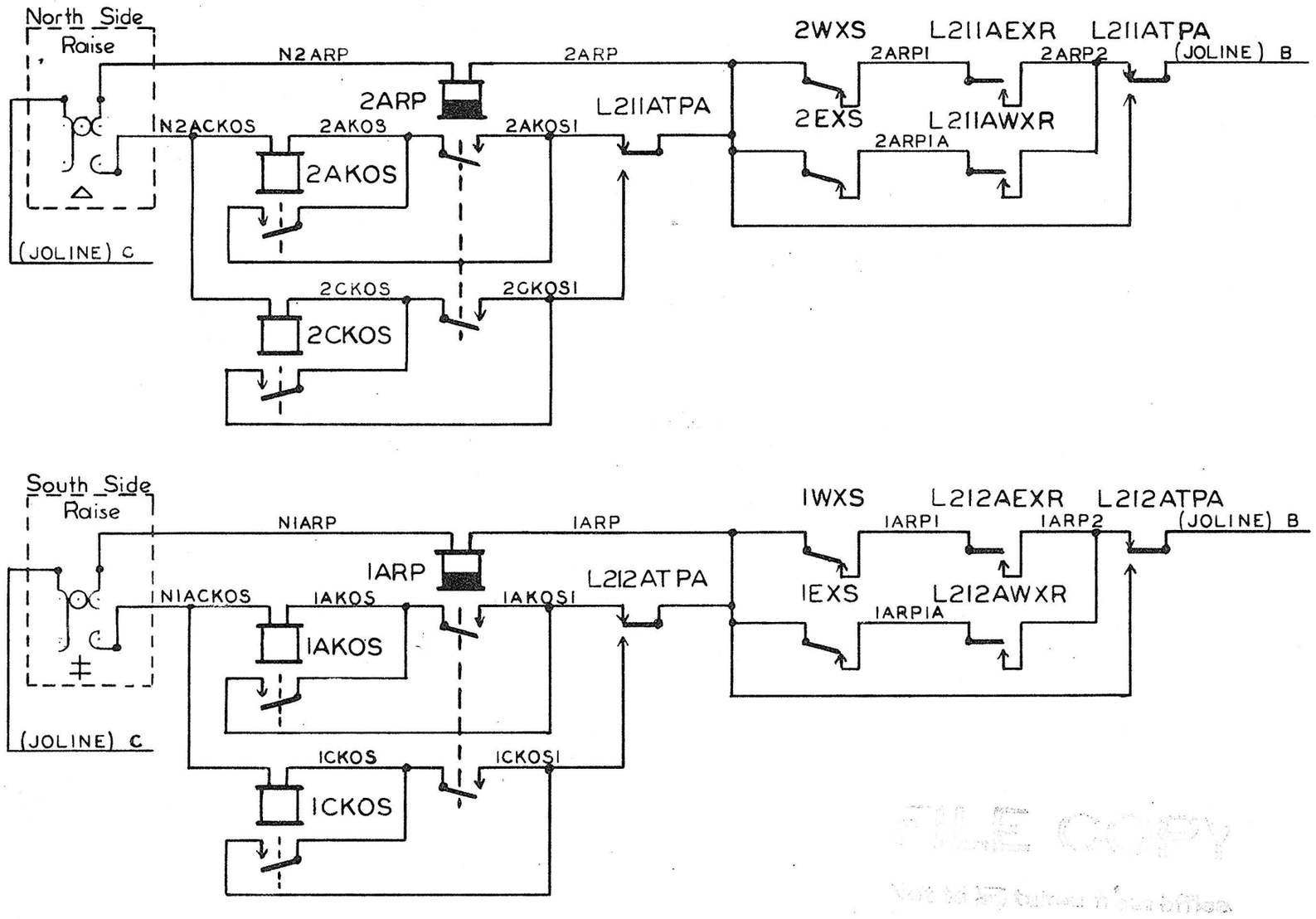
Westward



Joline Ave. Branchport Ave.

Track Repeating Relays





FILE COPY
Not to be taken from this office

2 9-7-49 L212AEXR CIRCUIT REVISED JM.	1 8-1-49 L212BTPA Relay Eliminated L212BTPA in L212-AWXR Cct. Made L212BTP JRG	DESIGNED	Jersey Central Lines Office of Signal Engineer 3-15-49	N.Y. & L.B.R.R. Long Branch, N.J. Joline Ave.	Sheet No. 89C
		DRAWN J.M.			
		CHECKED			
		APPROVED	B.P. 3-16-2 TRCG. 3-17-3	Circuit for Automatic Block and Cab Signal System	SD-L001-C

Joline Ave.

For Automatic Gates & Flashers

See Sheets 89B & C

SWITCH (E.W.TR.) SWITCH (W.W.TR.)

2WP 3 1 2 — 2WPIA 3 1 2 — C (JOLINE)

N2WP 6 4 5 — N2WPIA 6 4 5

2WP P DP-14 4FB 2NR — N2WPI 9 7 8

2WPI 12 10 11 — B (JOLINE) 60ω

LOCATE THESE JOINTS THE MINIMUM OF 12 FT. FROM THE HEEL OF THE SWITCH

(E.E. Xover shown sh. 89A) 2

L212A L212B L212C

Locate these joints at heel of frog.

L212RB1 L212TN L212ATB2 S500 32-A-14 L212ATB1 L212ATN1 L212ATB L212ATN L212ARB L212ARN L212BTB L212BTN L212BRB L212BRN L212CRB L212CRN

RTA-104 5 L212TB L212ATR 2FB L212A RBX L212BTR 2FB L212B RBX

L212TBX L212TCX L212ATP L212BTP L212BTBX L212BTCX

5 L212VR 4N 2DN 4R 2DR 6FB 1-2-3NWP L212HR3 NL212HR3 L212CVR4 L212TBXI L212TCXI CX110 L212TBXIA L212CBXE L212AEXR1 L212AEXR2 L212VR L212CXE BX110

6FB L212ATP L212HR4 L212ATBX NL212HR4 L212ATCX L212CVR3 L212CVR2 L212ATP B C

8FB L212BTP L212HR5 NL212HR5 L212BTBXI L212BTCXI L212BTBXIA L212CNXE L212BKXR1 L212AWXR2 L212BKXR L212AWXR1 CX110

5 L212CTR 8F 4B 1-2NWP 4FB L212HR6 NL212HR6 1-2NWP N1-2NWP

1WXS (SH. 89B) 1-2NWP1 N1-2NWP1 2NWP (SH. 88B) L212CVR1 L212DEXR1 NL212DEXR CX110 L212HR7 NL212HR7 1-2NWP2 N1-2NWP2 BX110 CX110

3NWP 4FB 1-2-3NWP N1-2-3NWP L212HR2 NL212HR2 3NWP N3NWP 1-2-3NWP N1-2-3NWP 1-2NWP B C 1WXS1 1WXS1A BX110 CX110

10 L212CCXE 5 20 20

L212BKXR L212BKXR1 L212AWXR1 L212AWXR2 1WXS1 1WXS1A L222ATP NL222ATP → To Local Circuits Joline Ave

BX110 CX110 L212AWXR2 L212AWXR N L212ATP C L212AEXR1 L212AEXR2 → To Local Circuits Joline Ave

CONNECTS TO SHEET NO. 90

CONNECTS TO SHEET NO. 89A

44

Include Cable

Shift Cable

3NWP N3NWP 2-4NWP3 N2-4NWP3 BX110 CX110 L222ATP NL222ATP L211HR5 NL211HR5 L211DDR1 NL211DDR1 L211BVR L211BCXW L211AEXR2 NL211AEXR1 R2MR4 NR2MR3 2RAR2 N2RAR2 L212HR1 NL212HR1 L212DDR1 NL212DDR1 L212VR L212CXE BPER NBPER BPBX550E BPCX550E

2-4NWP3 N2-4NWP3 1-2NWP2 N1-2NWP2 BX110 CX110 L212AWXR3 NL212AWXR L211AEXR2 NL211AEXR1 L211HR5 NL211HR5 L211DDR1 NL211DDR1 L211BVR L211BCXW L212DEXR1 NL212DEXR R2MR4 NR2MR3 2RAR2 N2RAR2 L212HR7 NL212HR7 L212DDR1 NL212DDR1 L212CVR L212CCXE BPER NBPER BPBX550E BPCX550E

dash lines indicate Cable between W.U. Poles 21/16 & 21/19

FILE COPY
Not to be taken from office

	1-6-1-49 L212ATR Primary Bat Track Circ	DESIGNED	Jersey Central Lines Office of Signal Engineer 3-31-49	N.Y. & L.B.R.R. Long Branch, N.J. Joline Ave. Circuits for Automatic Block and Cab Signal System.
		DRAWN WJY		Sheet No. 89D
		CHECKED		SD-L001-C
		APPROVED	B.P. 3-16-2 TRCG 3-17-3	

Sta. 112.9 + 50

L211C

TO OCEANPORT

TO EAST LONG BRANCH

SWITCH

DERAIL

4WP

N4WP

DP-14
4FB-2NR

P

4WPIA

N4WPIA

N4WPI

4WPI

L211CC

L211CB

60Ω

L211CRB

L211CRN

L211BRB

L211BTN

L211B TB

8F-4B

5

DERAIL

SWITCH

N3NWPI

3NWPI

60Ω

4WP

4NWP

4NWP 6FB

L211CXSRI

NL211CVRI

L211HR7
NL211HR7
CX110

B

C

L211CXSR

L211CXSR

L211CXSRI

L211HR8
NL211HR8
L211BTBXIA

2-4NWP3
N2-4NWP3

L211CXW

L211BVRA
ANL21

5N-3DR
4R-4DN

L211CVR2

L211BTBX

L211BTBXIA

L211BTCX2

L211BTCX

L211BVR
L211BCXW
CX110

L211CVRI
NL211CVRI
L211HR7
NL211HR7
L211CVR

L211BTBX
L211BTBXIA

L211BTCX
L211CNXW

L211BVR
NL211BVR
L211HR6
NL211HR6

L211AEXR2
NL211AEXRI

IRQ12

10

5

L211CBXW
L211CCXW

L211BVR
L211BCXW

4NWP

TO SUB. STA.

3NWP
N3NWP
2-4NWP3
N2-4NWP3
BX110
CX110
L222ATP
NL222ATP
L211HR5
NL211HR5
L211DDRI
NL211DDRI
L211BVR
L211BCXW
L211AEXR2
NL211AEXRI
R2MR4
NR2MR3
2RAR2
N2RAR2
L212HRI
NL212HRI
L212DDRI
NL212DDRI
L212VR
L212CXE
BPER
NBPER
BPBX550E
BPCX550E

BX110
CX110
L222ATP
NL222ATP
L211HR8
NL211HR8
L211DDRI
NL211DDRI
L211CVR
NL211CVRI

Cable between W.U. Poles $\frac{21}{25}$ & $\frac{21}{26}$

R2MR4
NR2MR3
2RAR2
N2RAR2
L212HRI
NL212HRI
L212DDRI
NL212DDRI
L212VR
L212CXE
BPER
NBPER
BPBX550W
BPCX550W

TO SUB. STA.

FILE COPY

CONNECTS TO SHEET NO. 90A

CONNECTS TO SHEET NO. 89D

	DESIGNED	Jersey Central Lines Office of Signal Engineer 3-8-49	N.Y. & L.B.R.R.	Sheet No. 90
	DRAWN J.M.		Long Branch, N.J. Cut L211C	SD-L001-C
	CHECKED		Circuits for Automatic Block and Cab Signal System	
	APPROVED	B.P. 3-16-2 TRC'G. 3-17-3		

Sta. 1135+42

CONNECTS TO SHEET NO. 91

CONNECTS TO SHEET NO. 90

L212

L222ARBI

L222ATN

L222A TB

L212RB

L212RN

CX110

L212 2BRG

L212 2BDG

L212 2ARG

L212 2AHG

L212 2ADG

8F-4B

8F 4B

L212HR

NL212HR

L222ATBX4B

L222ATBX4A

L222ATBX4

L222ATBX5

L222V

L222ATBX6

L222ATBX

L222 AVR

L222ATBX3B

L222ATBX3

L222ATBX3A

L222ATBX

L212G3

L222DDRI

NL222DDRI

L222AVRA ANL21

5N 3DR 4R 4DN

L222ATBX1B

L222ATBX1

L212DDR

NL212 DDR

4N.4R 2DN-2DR

L212AG1

L212BG1

L212VR L212BXE

L212NXE L222ATBX2

L212CXW L222DDR2

L212BG2

L212AG2

L212DR

BX110

CX110

4F-8B

L212HRI

NL212HRI

L222ATBX1A

L222 AVR ACXE

L222 HT L222ATBX6

BX110

B

C

RQ12

BX55 L212G4

L212DDRII

NL212DDRII

L212B XW

L212N XW

L222ATBX3A

L222ATBX3

BX110

CX110

B

C

2RAR2

N2RAR2

R2MR4

NR2MR3

L222ATP

NL222ATP

L211HR8

NL211HR8

L211DDRI

NL211DDRI

L211CVR

NL211CVRI

L222HR2

NL222HR2

L222DDRI

NL222DDRI

L222AVR

L222ACXE

BPER

NBPER

BPBX550W

BPCX550W

BX110

CX110

L222ATP

NL222ATP

L211HR8

NL211HR8

L211DDRI

NL211DDRI

L211CVR

NL211CVRI

R2MR4

NR2MR3

2RAR2

N2RAR2

L212HRI

NL212HRI

L212DDRI

NL212DDRI

L212VR

L212CXE

BPER

NBPER

BPBX550W

BPCX550W

FILE COPY
Not to be taken from office

1 3-22-49 L212/EXE Circuit Changed to L222/ATP. HM.	DESIGNED	Jersey Central Lines Office of Signal Engineer 3-22-49	N.Y. & L.B.R.R Long Branch, N.J. Sig. L212 Circuits for Automatic Block & Cab Signal System	Sheet No. 90A
	DRAWN WJY			SD-L001-C
	CHECKED			
	APPROVED	B.P. 3-16-2	TRCG. 3-17-3	

Sta. 1151+42

BROADWAY AVE.

GATE 'A'

GATE 'B'

P

L213

A

B

L213RB

L213RN

L211CRBL

L211CTN

Transformer in pole line box at X'ing.

Pole Line

MERCURY CONTACT

GATE 'A'

GATE 'B'

'A'

'B'

LIGHT ON GATE

BX10

CX110

Pole Line

L213ADG
L213AHG
L213ARG
CX110

L213BDG
L213BRG
CX110

L211CTB

BF4B

L211CTBX4B
L211CTBX4A
L211CTBX4
L211CTBX5

L211V

L211CTBX6

L211CTBX3A
L211CTBX3

L211CTBX1
L213VR
NL211DDR1
L211DDR2
L213G3

L211CTBX

L211CVR
NL211CVR
L211CVRA

5N 3DR
4R 4DN

L211CTBX1B
L211CTBX1A

BX110

L213AG2
L213BG2
L211DDR4

4F8B

CX110
L213DE

L211CTBX2

L213AG1

L213AHG

L213DDR1
NL213DDR1
BX110

L213DDR

4N4R 2ND 2DR

L211HT
CX110

L213BXE
L213CXE
L213NXW

L213VR
L211CTBX3A
L211CTBX3

BX110
CX110

L213BXE
L213CXE

L211CTBX6
BX110
L213BXE
L213CXE
L213G4

L211CTBX6
CX110
L211CTBX1A
NL211CVR1
L211CVR

BX56

BROADWAY GATE SHANTY

WAR

NWAR

POLE LINE

WK

NWK

WXR

NWXR

WX

B4

C4

3EX

C3

B4 16P C4

L222ATP
NL222ATP
L211HR8
NL211HR8
L211DDR1
NL211DDR1
L211CVR
NL211CVR1
3WX
C4
3EX
C3

L222HR2
NL222HR2
L222DDR1
NL222DDR1
L222AVR
L222ACXE
BP ER
NBP ER
BP BX550W
BP CX550W

CHELSEA AVE. GATE SHANTY

2EX
C2

3WX
C4

B3 16P C3

3EX

2WX

L222ATP
NL222ATP

L213DDR1
NL213DDR1
L213VR
L213CXW
2WX
C2
2EX
C3
3WX
C4
3EX

L222HR2
NL222HR2
L222DDR1
NL222DDR1
L222AVR
L222ACXE
'BP' ER
'NBP' ER
'BP' BX550W
'BP' CX550W

Connects to Sheet No. 91A

Connects to Sheet No. 90A

FILE COPY

May not be taken from office

13	9-9-49	12	3-9-49	11	1-2-46	DESIGNED J.R.M.	C.R.R.C. of N.J. Office of Signal Engineer June 30, 1927.
	Relocate Circuit Changes 1951 JM		Revised a/c Inst. of Gates-Flashers at B'port & Joline Aves. JM.		REVISED A/C RELAY L211AVRA ADDED. M.P.S.	DRAWN	
						TRACED J.J.H.	
						CHECKED	B.P. 3-16-2 Trcg. 3-17-3

N.Y.+L.B.R.R.

LONG BRANCH SIGNAL L213.

Circuits for Automatic Block & Cab Signal System

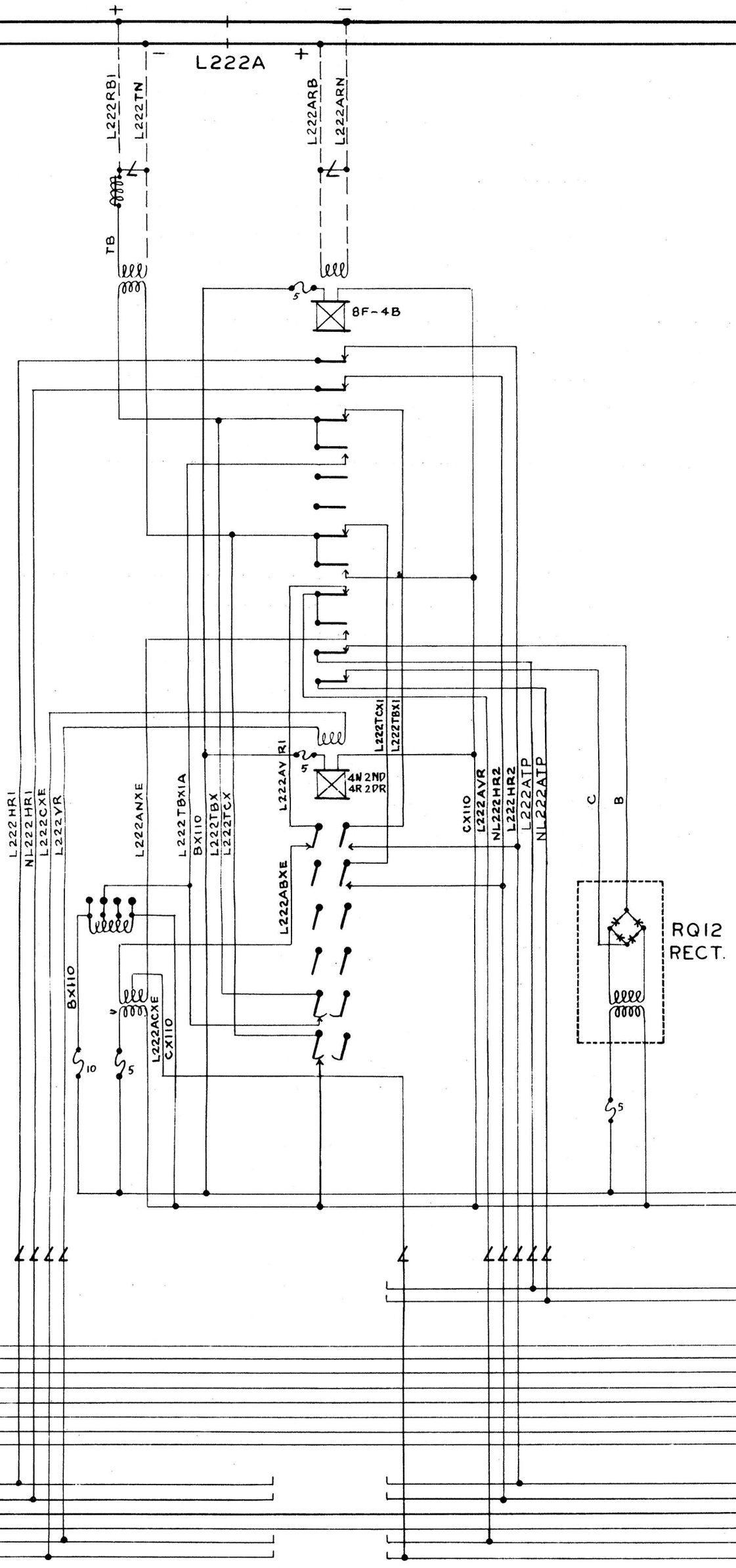
SHEETS.

SHEET No. 91.

SD-L-001-C

W1

Sta. 1151+42



CONNECTS TO SHEET NO. 92

CONNECTS TO SHEET NO. 91

FILE COPY
Not to be taken from office

	1 3-8-49	Designed	C.R.R.Co. of N.J. Office of Signal Engineer 3-1-45	N.Y. & L.B.R.R. Long Branch N.J. Loc. L222A	Sheets Sheet No. 91A
	Revised a/c Inst. of Gates-Flashers at B'Port & Joline Aves. JM.	Drawn MSP			SD-L001-C
		Checked			
		Approved	BP. 3-16-2 Trcg. 3-17-3	CIRCUITS for AUTOMATIC BLOCK & CAB SIGNAL SYSTEM	