

SHEET INDEX

CONTENTS	SHEET NO.	ISSUE NO.																						
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
SHEET INDEX SUPPORTING INFORMATION	A1	1	2	3	4	5	6																	
APPARATUS INDEX	A2	1	1	3	4	4	4																	
LEAD INDEX OPTION INDEX	A3	1	2	3	4	5	6																	
FS 1 TRUNK CKT	B1	1	2	3	4	5	6																	
FS 2 ALARM TIMER CKT FS 3 WINK DETECTOR CKT	B2	1	2	3	3	3	3																	
FS 4 COIN REFUND AND RERING CONTROL CKT	B3	1	2	2	2	2	2																	
FS 5 TWO PARTY SELECTIVE OR FOUR PARTY SEMI-SELECTIVE CODE RINGING (AC-DC ALD) OR FOUR PARTY SELECTIVE, EIGHT PARTY SEMI-SELECTIVE CODE RINGING (SUP ALD)	B4	1	1	1	1	1	1																	
FS 6 INTERRUPTER CKT																								
APP FIG. 1	C1	1	2	3	4	4	4																	
APP FIG. 2, 3 & 4	C2	1	2	2	2	2	2																	
APP FIG. 5	C3	1	2	3	4	4	4																	
APP FIG. 6	C4	1	1	1	1	1	1																	
CIRCUIT NOTES EQUIPMENT NOTES INFORMATION NOTES WORKING LIMITS	D1	1	2	3	4	5	6																	

CONTENTS	SHEET NO.	ISSUE NO.																						
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
SC 1 CALL TO BUREAU SEIZURE	E1	1	1	1	1	1																		
SC 2 COIN REFUND (FOR CALLS ORIGINATING FROM COIN STATIONS)	E2	1	1	1	1	1																		
SC 3 BUREAU ANSWERS CALL, CALLING PARTY DISCONNECTS FIRST	E3	1	1	1	1	5	3																	
SC 4 CALL TO BUREAU CALL ORIGINATED VIA A TANDEN OFFICE, TRUNK NOT ARRANGED FOR COIN ABSORPTION, OPTION K)	E4	1	1	1	1	5	5																	
SC 5 DISCONNECT (FORCED DISCONNECT ON CALLING PARTY)	E5	1	1	1	1	1	1																	
SC 6 WINK DETECTION FOR RERING (CALL ANSWERED BY BUREAU, TALKING PATH COMPLETED)	E6	1	1	1	1	5	5																	
SC 7 RERING (SXS OFFICES WITH AC-DC AUGIBLE RINGING MACHINES)	E7	1	1	1	1	5	5																	
SC 8 RERING (SXS OFFICES WITH SUP ± AUGIBLE RINGING MACHINES)	E8	1	1	1	1	5	5																	
SC 9 SUPERVISION ON ANSWERED CALL (CALLING STATION GOES ON-HOOK, CALL ORIGINATED FROM A COIN OR LOCAL STATION, OPTION J OR K)	E9	1	1	1	1	5	5																	
SC 10 ALARM (BUREAU SEIZES TRUNK, NO CALL TO BUREAU)	E10	1	1	1	1	5	5																	
CIRCUIT REQUIREMENTS TABLE	F1	1	1	1	1	4	4	4																
TIMING REQUIREMENTS TABLE	F2	1	1	1	1	1	1																	
CAD 1, 2, 3, 4, 5 & 6	G1	1	2	3	3	5	6																	
CAD 7, 8 & 9	G2	1	2	3	3	3	3																	
CAD 10, 11, 12	G3	1	1	3	3	3	3																	

SHEET INDEX NOTES

- WHEN CHANGES ARE MADE IN THIS DRAWING, ONLY THOSE SHEETS AFFECTED WILL BE REISSUED.
- THIS SHEET INDEX WILL BE REISSUED AND BROUGHT UP TO DATE EACH TIME ANY SHEET OF THIS DRAWING IS REISSUED, OR A NEW SHEET IS ADDED.
- THE ISSUE NUMBER ASSIGNED TO A CHANGED OR NEW SHEET WILL BE THE SAME ISSUE NUMBER AS THAT OF THE SHEET INDEX.
- SHEETS THAT ARE NOT CHANGED WILL RETAIN THEIR EXISTING ISSUE NUMBER.
- THE LAST ISSUE NUMBER OF THE SHEET INDEX IS RECOGNIZED AS THE LATEST ISSUE NUMBER OF THE DRAWING AS A WHOLE.

SUPPORTING INFORMATION

CATEGORY	NO.
EQUIPMENT DRAWINGS	J3301580-1 J3301581-1
EQUIPMENT DESIGN REQ	814-520-150
KEYSHEET DRAWINGS	SX5 NO. 1 SX5 NO. 350A SX5 NO. 355A SX5 NO. 356A SX5 NO. 360A SX5 NO. 35E97
MAINTENANCE BSP	SD-31359-01 SD-31364-01 SD-31780-01 SD-32149-01 SD-31250-01 SD-32325-01
	226-534-500

NOTICE-NOT FOR USE OR DISCLOSURE OUTSIDE THE BELL SYSTEM EXCEPT UNDER WRITTEN AGREEMENT.

ISSUE

6D

1099

AT&T CO
STANDARDA&M ONLY FOR 350A, 356A,
360A & 35E97STEP BY STEP SYSTEMS
NO. 1, 350A, 355A, 356A, 360A, 35E97
TRUNK CIRCUIT
FOR "911" EMERGENCY SERVICE

SD-35004-01-A1

27 SHEETS

BELL TELEPHONE LABORATORIES
INCORPORATED(BY SRV)
2
65

APPARATUS INDEX

EGPT LOC	APP FIG.	
	NO.	SRI NO.
CIRCUIT PACKS		
TM1/TM2	5	C3
TR	1	C1

DESIG	LOCATION		
	FS	APP FIG	EQPT
COMPONENT ASSEMBLIES			
CA1		1	CA1
CA2			CA2
CA3		5	CA3
CA4			CA4

RELAYS		
A	1C1	1
AI	3D5	5
AL1	2B1	4
AL2	2C1	4
B	1E3	1
C	1E3	1
CO	1D7	1
O	1C2	1
DI	2F6	5
F	1C5	1
INT	4B7	6

DESIGN	LOCATION		
	FS	APP FIG	EQPT
RELAYS			
L	1C8	1	
LK	3H2	5	
P	1G6	1	
R	3G5	5	
RC	1D4	1	
RCC	2F6	5	
RV	1G2	1	
RVI	3G3	5	
ST	3E7	} 5	
STP	3G8		
STPI	3H8		
T1	2C7	5	
T2	2C6	5	
TR	3C8	5	
W	1E6	2	
W	3F3	5	
WI	4C4	5	

DESIG	LOCATION		
	FS	APP F/G	EQPT
RELAYS			
Y	4C1	5	
Z	1E7	2	
Z	3F4	5	
ZI	4B2	5	

CAPACITORS			
CR	3E2	5	CA4
D3	1G3	1	CA1
R	1C2	1	
RT	1B4	1	CA1
T	1B2	1	
TN	1B7	1	CA1

CONNECTORS			
TM	2C6	5	

DICES			
D1	2C.	5	CA4
D2	2D6	5	CA4
RV	1G2	1	CA1
TR	308	5	CA4

DESIG	LOCATION	
	F3	APP FIG
	JACKS	
A	1C1	1
AI	3B1	5
B	SEE APP FIG.	1
BI		

KEYS		
ACC	SEE APP FIG. 1	

LAMPS			
AL		IFB	I

RESISTANCE LAMPS			
CH	3E2	5	
R	1A5	3	
RL	4D1	}	
SUP +	4E1		
SUP -	4E1	5	

DESIG	LOCATION		
	F3	APP F3	EQPT
RESISTORS			
A	2C7	5	CA4
S	1C3	1	CA1
CR	3E2	5	CA4
D3	1G4	1	CA1
R1	2B6	5	CA2
R2	2B6		
R3	2B7		
R4	2B7		
R5	2C6		
R6	2C6		
R7	2D7		
R8	2D7		
R9	2D8		
R10	3B4	5	CA3
R11	3C4		
W	1E6	2	CA3
W	3F3	5	
WI	4C4	5	
Z	1E8	2	CA3
Z	3E4	5	
ZI	4A2	5	

SOCKET			
TH	—	4	

DESIG	LOCATION		
	FS	APP FIG.	EQPT
THERMAL TIME DELAY DELAYS			
TH	SEE APP FIG. 4		

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4B

TRUNK CIRCUIT

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SD-35004-01-A2

BELL TELEPHONE LABORATORIES
INCORPORATED

6

[illegible]

0 1 2 3 4 5 6 7 8 9

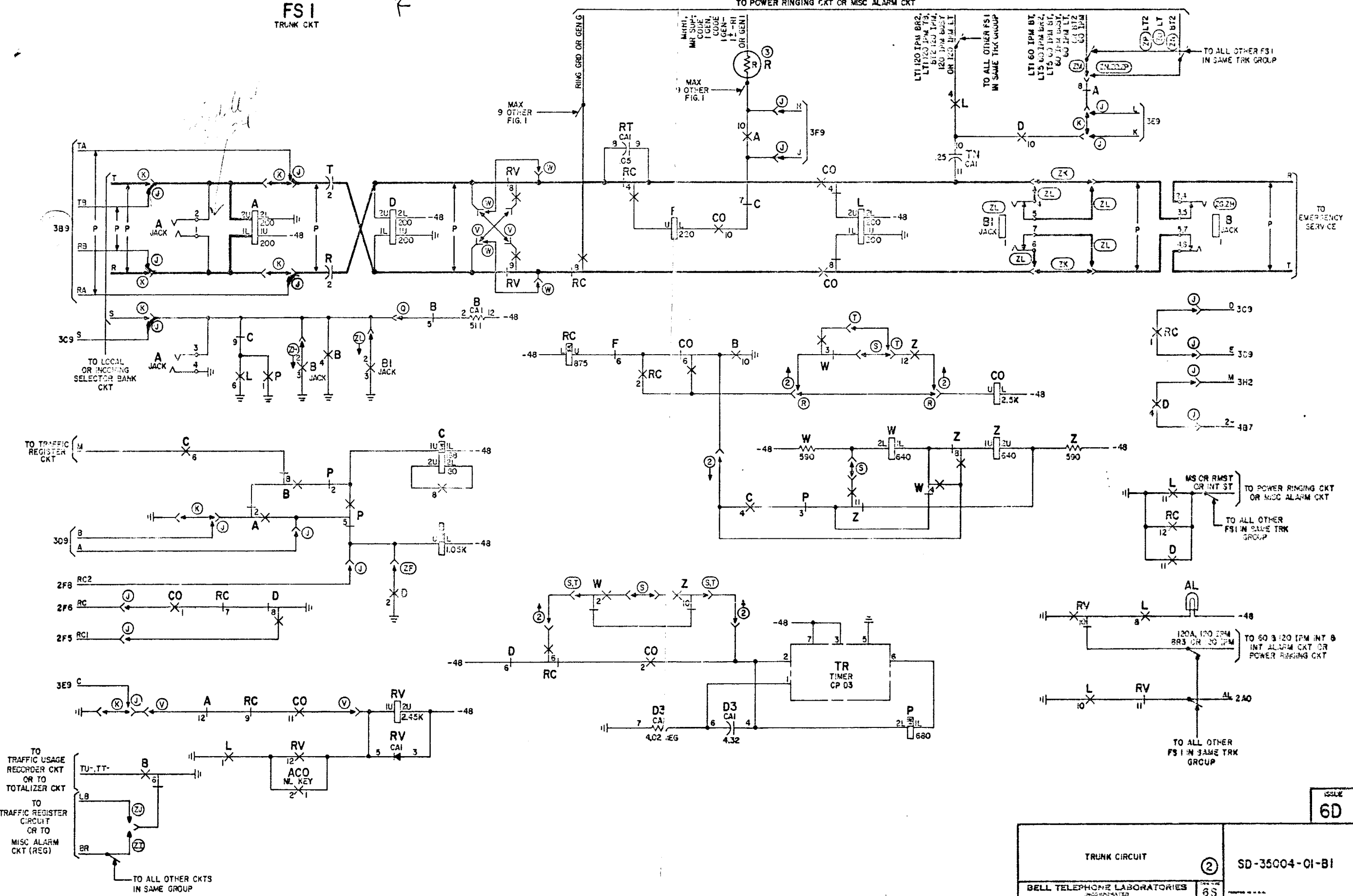
A
B
C
D
E
F
G
H

A
B
C
D
E
F
G
H

FS I
TRUNK CKT

2

TO POWER RINGING CKT OR MISC ALARM CKT



TRUNK CIRCUIT		2	SD-35004-01-B1
BELL TELEPHONE LABORATORIES		6S	

FS 2 ALARM TIMER CKT

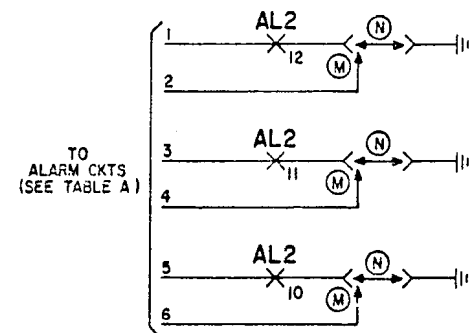
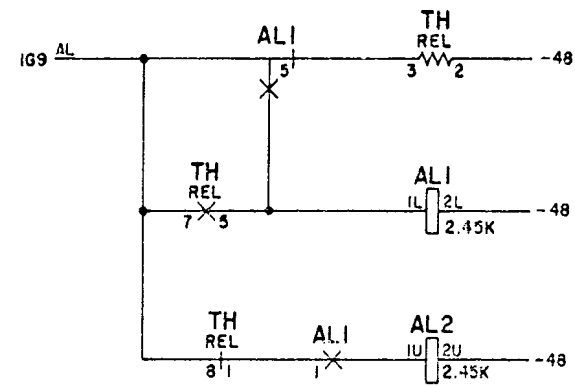
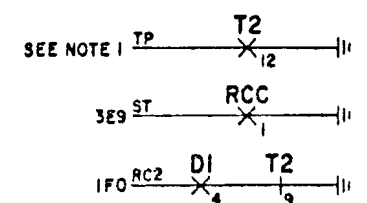
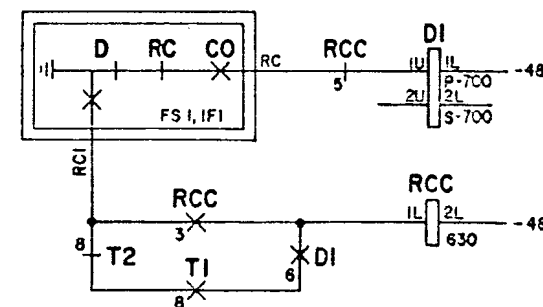
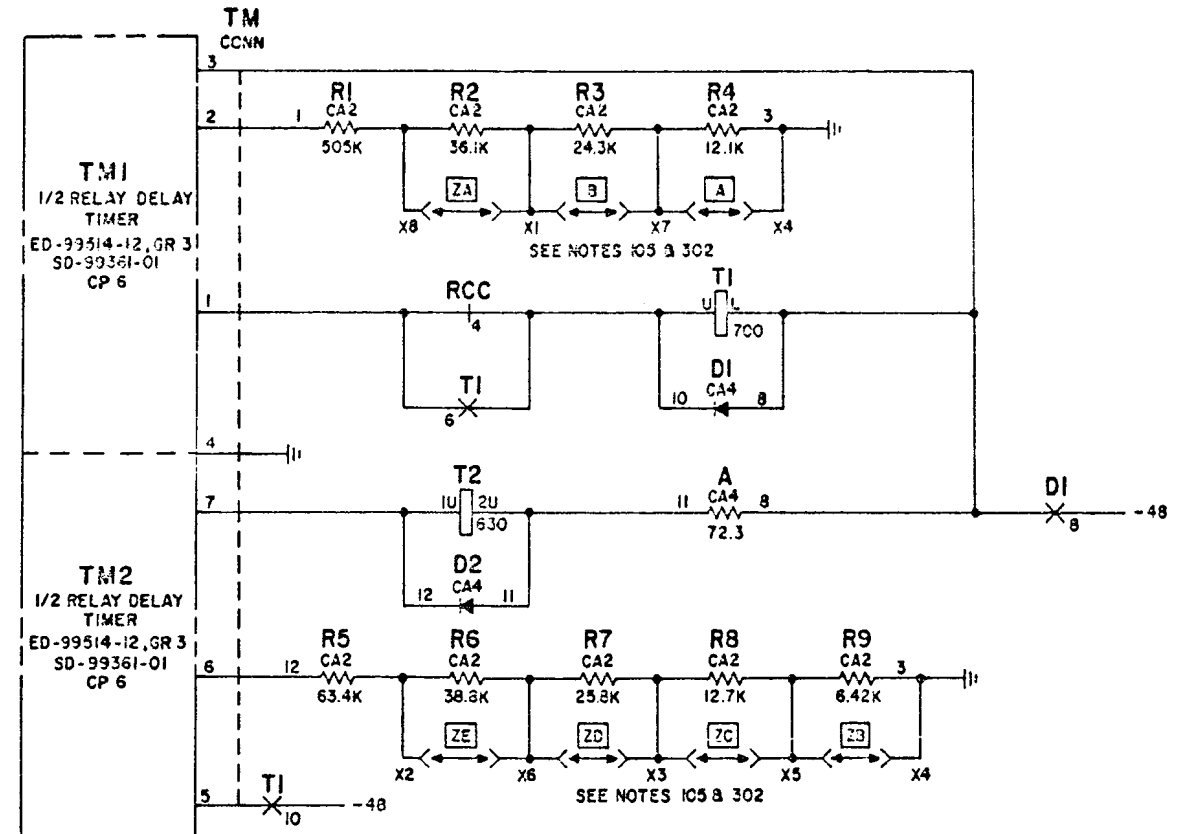


TABLE A

OPTION N			OPTION M						CONNECTING CIRCUIT
1	3	5	1	2	3	4	5	6	
MN	D		MN	MNG	D	DG			MISC ALARM CKT (P SIG TIMING)
F									ALARM CKT
F, MN	G		MN	MNG	GP	GPG			AUDIBLE & VISUAL ALARM CKT
MN		C	MN	MNG			C	CG	PILOT LAMP CKT
EST	MN		EST	ESTR	MN	MNR			MISC ALARM CKT
		MN					MN	MNG	PILOT LAMP AND POWER ALARM CKT
MN			MN	MNG					MISC ALARM CKT (ALARM CONTROL)
	PL								MISC ALARM CKT (AISLE PILOTS)

FS 3 WINK DETECTOR CKT



NOTES:
1. FOR TEST PURPOSES ONLY.

ISSUE
3B

TRUNK CIRCUIT

②

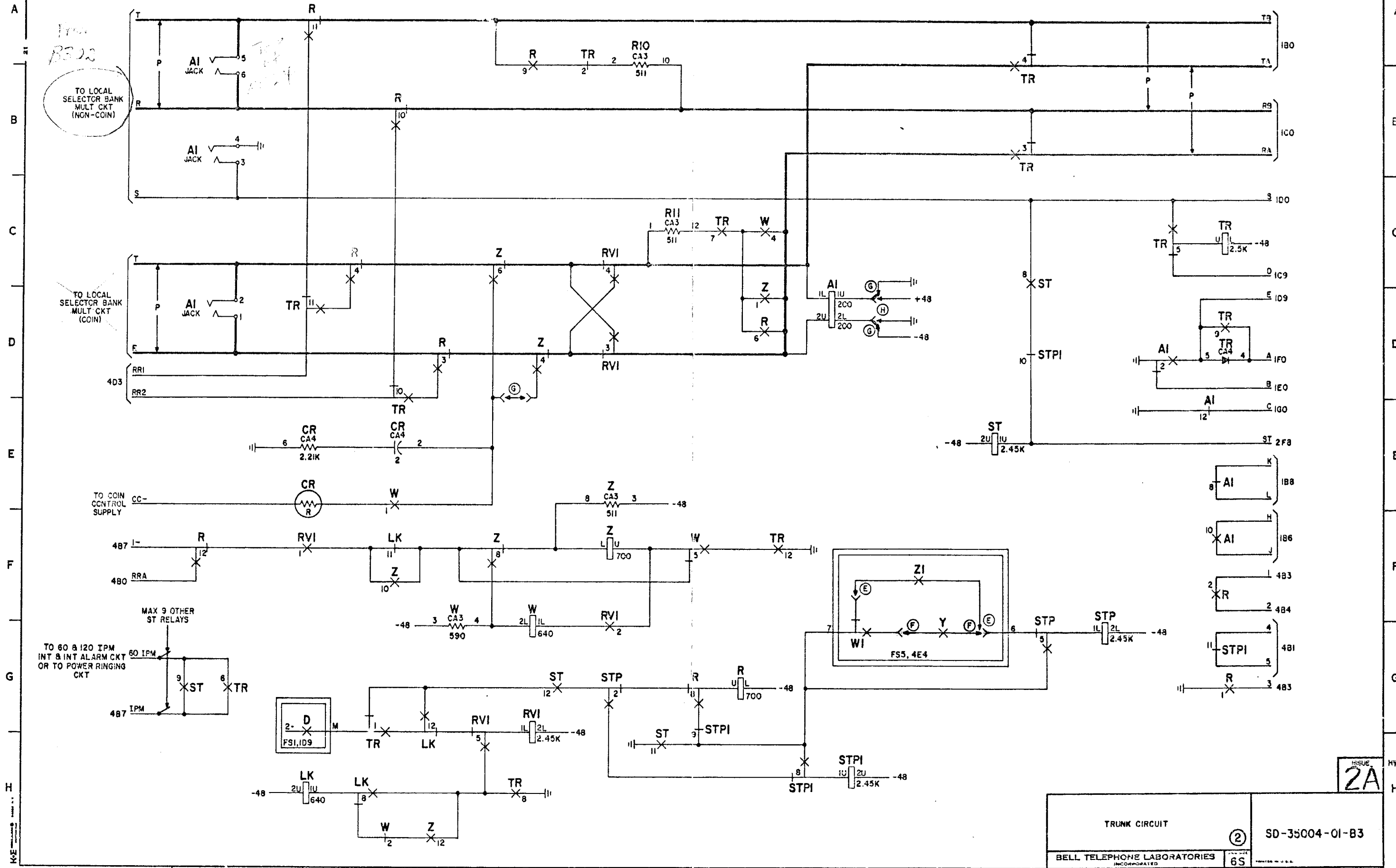
SD-35004-01-B2

BELL TELEPHONE LABORATORIES
INCORPORATED

6S

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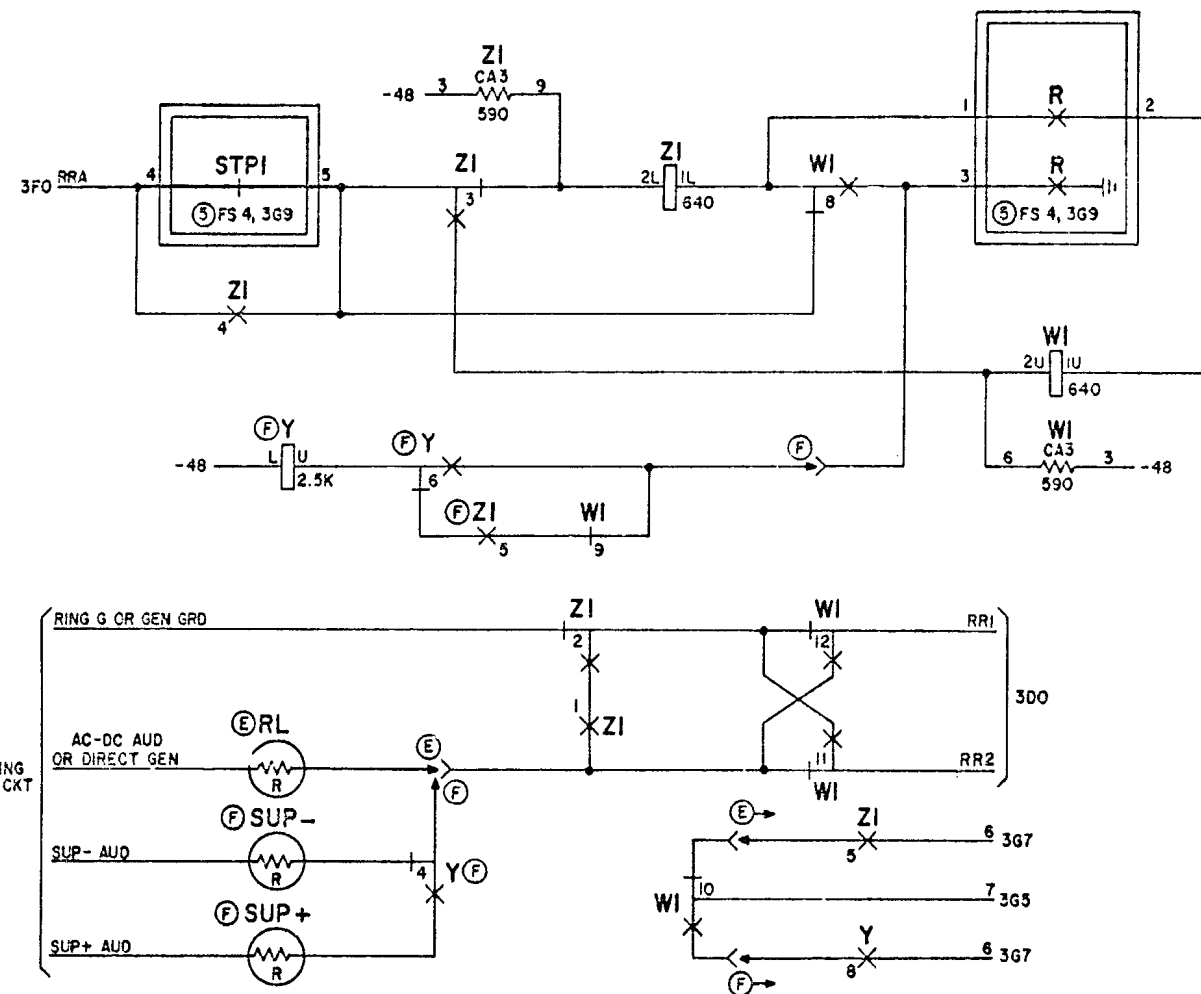
③ FS 4
COIN REFUND AND RERING
CONTROL CKT



SD-35004-01-B3

FS 5

2 PARTY SELECTIVE OR 4 PARTY
SEMI-SELECTIVE CODE RINGING (AC-DC AUD)
OR 4 PARTY SELECTIVE, 3 PARTY
SEMI-SELECTIVE CODE RINGING (SUP AUD)



FS 6

INTERRUPTER CKT

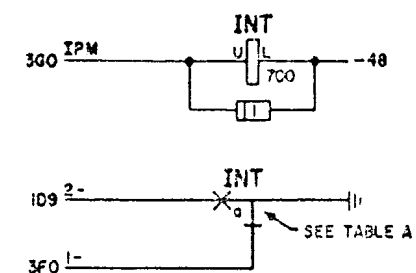


TABLE A

CONTACT NO.	LEAD NO.
12M	
12B	
11M	
11B	
10M	2-10
10B	1-10
9M	2-9
9B	1-9
8M	2-8
8B	1-8
7M	2-7
7B	1-7
6M	2-6
6B	1-6
5M	2-5
5B	1-5
4M	2-4
4B	1-4
3M	2-3
3B	1-3
2M	2-2
2B	1-2
1M	2-1
1B	1-1

TRUNK CIRCUIT

2

SD-35004-01-B4

BELL TELEPHONE LABORATORIES
INCORPORATED

6S

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SD-35004-01-B4

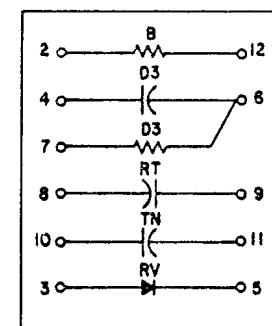
APP FIG. 1

RELAY																			DESIG
CODE																			CODE
OPTION																			OPTION
CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC
12	B	IG1								EM	IG2			M	IF8				12
11										EM	IG5			M	IB7				11
10	M	IB5		M	ID5			B	ID1			EM	IG6	EM	IF2				10
9																			9
8	B	IA3		EM	IE2			M	IC5			EM	IG3						8
7																			7
6				EM	IE1			M	IE1	EM	ID5			EM	IG3				6
5																			5
4																			4
3				M	ID2			M	IE3	EM	IB5			M	ID3				3
2	M	IE1								EM	IG4			M	IF2				2
1										M	IF1								1
COIL	IC1				IE3				IE3		ID7				IC2				COIL

RELAY																			DESIG
CODE																			CODE
OPTION																			OPTION
CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC
12														M	IE8			M	IG2
11														M	IG8			EM	IF8
10														EM	IF8			EM	IF3
9																		EM	IF3
8														EM	IF8			EM	IF3
7																			7
6	B	ID4								EM	IG1								6
5																			5
4														M	IB7				4
3																			3
2														M	IG1				2
1														M	IG1				1
COIL	IC5														IC5			IG6	IG2

CIRCUIT PACK (TIMER)

DESIG	LOC	CODE
TR	IG6	D3

COMPONENT ASSEMBLY
ED-35010-(), GR 2 E/WDESIG
CAI

CAPACITORS

DESIG	LOC	CODE
D3	IG5	538GH
RT	IB4	542W
TN	IB7	542C

DIODES

DESIG	LOC	CODE
RV	IG2	446F

RESISTORS

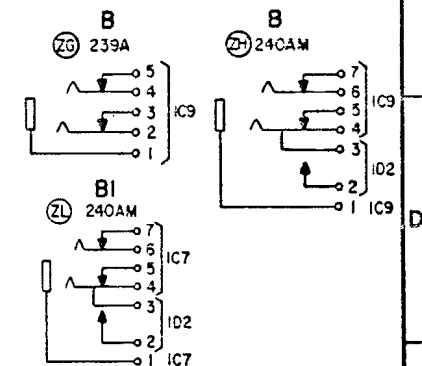
DESIG	LOC	CODE
B	IC3	KS-14803, LIAD, 511
D3	IG4	147A, 4.02 MEG

CAPACITORS

DESIG	LOC	CODE
T	IB2	437E
R	IC2	

JACKS (TEST)

DESIG	LOC	CODE
A	IC1	534C

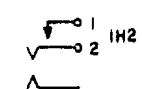


RELAY																			DESIG
CODE																			CODE
OPTION																			OPTION
CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC
12						EM	IE8												12
11																			11
10						M													10
9						B	IG1												9
8						EM	IG4												8
7						B	IF1												7
6						EM	IG4												6
5						B													5
4						EM	IB4												4
3																			3
2						M	ID4												2
1						M	IC8												1
COIL							ID4												COIL

RELAY																			DESIG
CODE																			CODE
OPTION																			OPTION
CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC
12																			12
11																			11
10																			10
9																			9
8																			8
7																			7
6																			6
5																			5
4																			4
3																			3
2																			2
1																			1
COIL																			COIL

KEY
547A

ACO



LAMPS

DESIG	LOC	CODE
AL	IF8	MI

TRUNK CIRCUIT

②

SD-35004-01-C1

BELL TELEPHONE LABORATORIES
INCORPORATED

6S

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ISSUE
4B

APP FIG. 2

RELAY													
DESIG													DESIG
CODE													CODE
OPTION													OPTION
12	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	12
11													11
10													10
9													9
8													8
7													7
6													6
5													5
4													4
3													3
2													2
1													1
COIL													COIL

RESISTORS

DESIG	LOC	CODE
W	IE6	KS-14603, LIAD, 590
Z	IE8	

APP FIG. 3

LAMP

DESIG	LOC	CODE
R	IA5	I3D (RES)

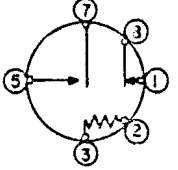
APP FIG. 4

RELAY													
DESIG													DESIG
CODE													CODE
OPTION													OPTION
12	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	12
11													11
10													10
9													9
8													8
7													7
6													6
5													5
4													4
3													3
2													2
1													1
COIL													COIL

SOCKET

DESIG	LOC	CODE
TH		KS-13364, L3

THERMAL TIME DELAY RELAY



DESIG	TH
CODE	KS-13364, L20
OPTION	
8	2C1
7	29I
6	
5	29I
4	
3	2AI
2	2AI
1	2C1

SD-35004-01-C2

TRUNK CIRCUIT

BELL TELEPHONE LABORATORIES
INCORPORATED

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SD-35004-01-C2

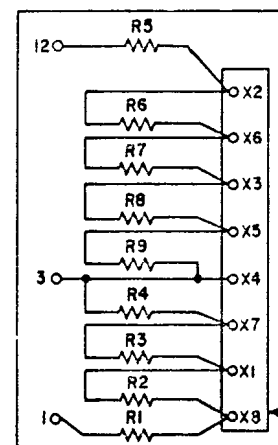
2A

APP FIG. 5

RELAY		AI										DI										DESIG	
CODE		AJSB										AQSB										CODE	
OPTION		CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	OPTION	
12																						12	
11																						11	
10																						10	
9																						9	
8																						8	
7																						7	
6																						6	
5																						5	
4																						4	
3																						3	
2																						2	
1																						1	
COIL																						COIL	

CIRCUIT PACKS

DESIG	LOC	CODE
[1] TM1 RELAY DELAY TIMER CP6	2C5	ED-99514() SD-99361-01

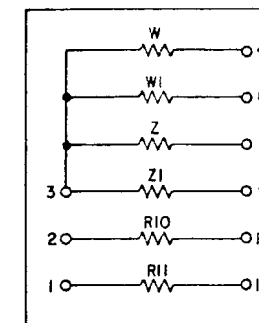
COMPONENT ASSEMBLY
ED-35010-(), GR 3 E/WDESIG
CA2

RESISTORS

DESIG	LOC	CODE
R1	2B6	505K
R2	2B6	36.1K
R3	2B7	24.3K
R4	2B7	12.1K
R5	2D6	63.4K
R6	2D6	38.8K
R7	2D7	25.8K
R8	2D7	12.7K
R9	2D8	6.42K

318A TERMINAL STRIP
(MOUNTED ON COMPONENT ASSEMBLY)

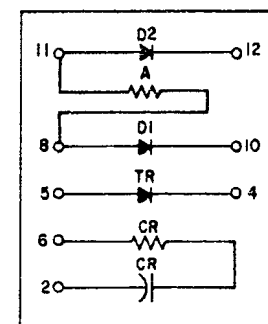
RELAY		R										PCC										DESIG	
CODE		AJ9										AK15										CODE	
OPTION		CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	OPTION	
12																						12	
11																						11	
10																						10	
9																						9	
8																						8	
7																						7	
6																						6	
5																						5	
4																						4	
3																						3	
2																						2	
1																						1	
COIL																						COIL	

COMPONENT ASSEMBLY
ED-35010-(), GR 4 E/WDESIG
CA3

RESISTORS

DESIG	LOC	CODE
R10	3B4	KS-14603, LIAD, 511
R11	3C4	KS-14603, LIAD, 590
W	3F3	KS-14603, LIAD, 511
WI	4C4	KS-14603, LIAD, 590
Z	3E4	KS-14603, LIAD, 511
ZI	4A2	KS-14603, LIAD, 590

RELAY		RV1										ST										DESIG	
CODE		AK49										AK4										CODE	
OPTION		CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	OPTION	
12																						12	
11																						11	
10																						10	
9																						9	
8																						8	
7																						7	
6																						6	
5																						5	
4																						4	
3																						3	
2																						2	
1																						1	
COIL																						COIL	

COMPONENT ASSEMBLY
ED-35010-(), GR 5 E/WDESIG
CA4

CAPACITORS

DESIG	LOC	CODE
CR	3E2	542AG

DIODES

DESIG	LOC	CODE
DI	2C7	458A
D2	2D6	458A
TR	3D8	446F

RESISTORS

DESIG	LOC	CODE
A	2C7	KS-14603, LIAD, 72.3
CR	3E2	KS-14603, LIAD, 2.2K

CONNECTORS

DESIG	LOC	CODE
TM	2C6	910A

JACKS

DESIG	LOC	CODE
AI	3B1	554B

LAMPS

DESIG	LOC	CODE
CR	3E2	13L (RES)
RL	4D1	13C (RES)
SUP-	4E1	
SUP+	4E1	

TRUNK CIRCUIT

②

SD-35004-01-C3

BELL TELEPHONE LABORATORIES
INCORPORATED

65

APP FIG 6

RELAY					
DESIG			INT		
CCODE			AJ12		
CPT:CM	CONT	LOC	CONT	LOC	CONT
	ARR		ARR		ARR
12			EDM		
11			EDM		
10			EDM	487	
9			EDM	487	
8			EDM	487	
7			EDM	487	
6			EDM	487	
5			EDM	487	
4			EDM	487	
3			EDM	487	
2			EDM	487	
1			EDM	487	
COIL				487	

NETWORK

DESIG	LOC	CCODE
INT	487	185A

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G

F

E

D

C

B

A

ISSUE

1

HW

H

G

F

E

D

C

B

A

TRUNK CIRCUIT

②

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CIRCUIT NOTES:

DESIG	FUSE AMP	POTENTIAL	ONE PER
1-1/3	-48V SIG		APP FIG. 1 & 2
1-1/3	-48V SIG		APP FIG. 4
1-1/3	-48V SIG		APP FIG. 5
1-1/3	-48V SIG		APP FIG. 5
1-1/3	+48		APP FIG. 5, OPTION H
	GRO		APP FIG. 1 & 2
	GRO		APP FIG. 4
	GRO		APP FIG. 5
	GRO		APP FIG. 5
	+48V GRO		APP FIG. 5, OPTION H
1/2 HZ	CC-		APP FIG. 5
1/2 HZ	MRRI, MR SUP-, GEN I, +RI		MAX 10 CKTS
1/2 HZ	AC-DC ALD, SUP-ALD, SUP+ALD		APP FIG. 5
X1/2 HZ	LT2		TRK GR
BATTERY SYMBOL		VOLTAGE RANGE	
-48		45-52	
+48		45-52	

* IN NO. 1 AND 350A OFFICE ONLY

CIRCUIT NOTES (CONT):

FEATURE OR OPTION	PROVIDE	
	APP FIG.	QUANTITY

CIRCUIT NOTES (CONT):

RECORD OF APP FIGURES, WIRING AND APPARATUS CHANGES						
CHANGED ON ISS	IF JOB RECORDS DO NOT SPECIFY	THIS OPTION WAS FURN	SEE NOTE	USE IN CIRCUIT		
				STD	A & M	MD

INFORMATION NOTES:

301. UNLESS OTHERWISE SPECIFIED: RESISTANCE VALUES ARE IN OHMS, CAPACITANCE VALUES ARE IN MICROFARADS, VALUES PRECEDED BY THE SYMBOL + (PLUS) OR - (MINUS) ARE IN VOLTS.

302. JOB RECORDS NEED NOT BE MAINTAINED FOR OPTIONS A, B, ZA, ZB, ZC, ZD OR ZE.

EQUIPMENT NOTES:

201. PRIOR TO ISSUE 38, THE LEAD BETWEEN 6B OF (B) RELAY AND TERMINAL 52 OF TS (A) OR (C) ON CAD 1 WAS NOT SHOWN.

FEATURE OR OPTION		PROVIDE	
		APP FIG.	QUANTITY
911 TRUNK	LOCAL SELECTOR ACCESS	1	ZF
	INCOMING SELECTOR ACCESS		K
NUMBER OF DIGITS TO BE ABSORBED IN TRUNK	2	2	S
	1		T
	NONE		R
RINGING LAMP		3	1 PER TRK
ALARM TIMER CKT	ALARM LEADS PAIRED WITH GROUND	4	N
	YES		M
REVERSE BATTERY SUPERVISION TO BUREAU	YES		V
	NO		W
SLEEVE BATTERY RESISTOR REQUIRED FOR 350A OFFICE			Q
EMERGENCY RINGBACK (LOCAL SELECTOR ACCESS ONLY) (SEE NOTE 07)	NO		K
	AC-DC RINGING		E
	SUPERVISED RINGING		F
	COIN FIRST PAYSTATIONS	5	J
	DIAL TONE FIRST PAYSTATIONS		H
INTERRUPTER RELAY		6	1 PER TRK
LAST TRUNK BUSY REGISTER (SEE NOTE 108)		ZJ	1 LEAD PER LAST SEL MULT TRK
ALL TRUNK BUSY REGISTER (SEE NOTE 108)		ZI	1 PER TRK GR
CALLING PARTY DISCONNECTS FIRST	DIRECT TRUNK (LOCAL SELECTOR ACCESS) STEADY LOW TONE	ZL, ZC OR ZP	SEE NOTE 110
	INTELLIGENT FACILITY TO 911		
TANDEM TRUNK (INCOMING SELECTOR ACCESS) RECORDER TONE TO 911	CARRIER OR RANGE EXTENDER FACILITY TO 911	ZN	SEE NOTE 111

NETWORK VALUES		
NETWORK NO.	RESISTANCE IN OHMS	CAPACITANCE IN UF
1	470	0.11

RECORD OF APP FIGURES, WIRING AND APPARATUS CHANGES						
CHANGED ON ISS	IF JOB RECORDS DO NOT SPECIFY	THIS OPTION WAS FURN	SEE NOTE	USE IN CIRCUIT		
				STD	A & M	MD
38	ZG OR ZH	ZG		ZH		ZG
48	ZJ OR ZI	NO	102	ZJ, ZI		
59U	ZM, ZN, OR ZP	ZM	102	ZD, ZN		ZM
60	ZP	NONE	102	ZP		

WORKING LIMITS:

MAX EXT CKT LOOP (SUB)	-45 MIN 1400	-45 MIN 1500
MAX EXT CKT LOOP (TO EMER SRV BUREAU)	-45 MIN 1600	-45 MIN 1700
MIN INS RES (SUB)	15,000	
MIN INS RES (TO EMER SRV BUREAU)	30,000	
MAX EARTH POTENTIAL	± 3V	

ISSUE
60

TRUNK CIRCUIT

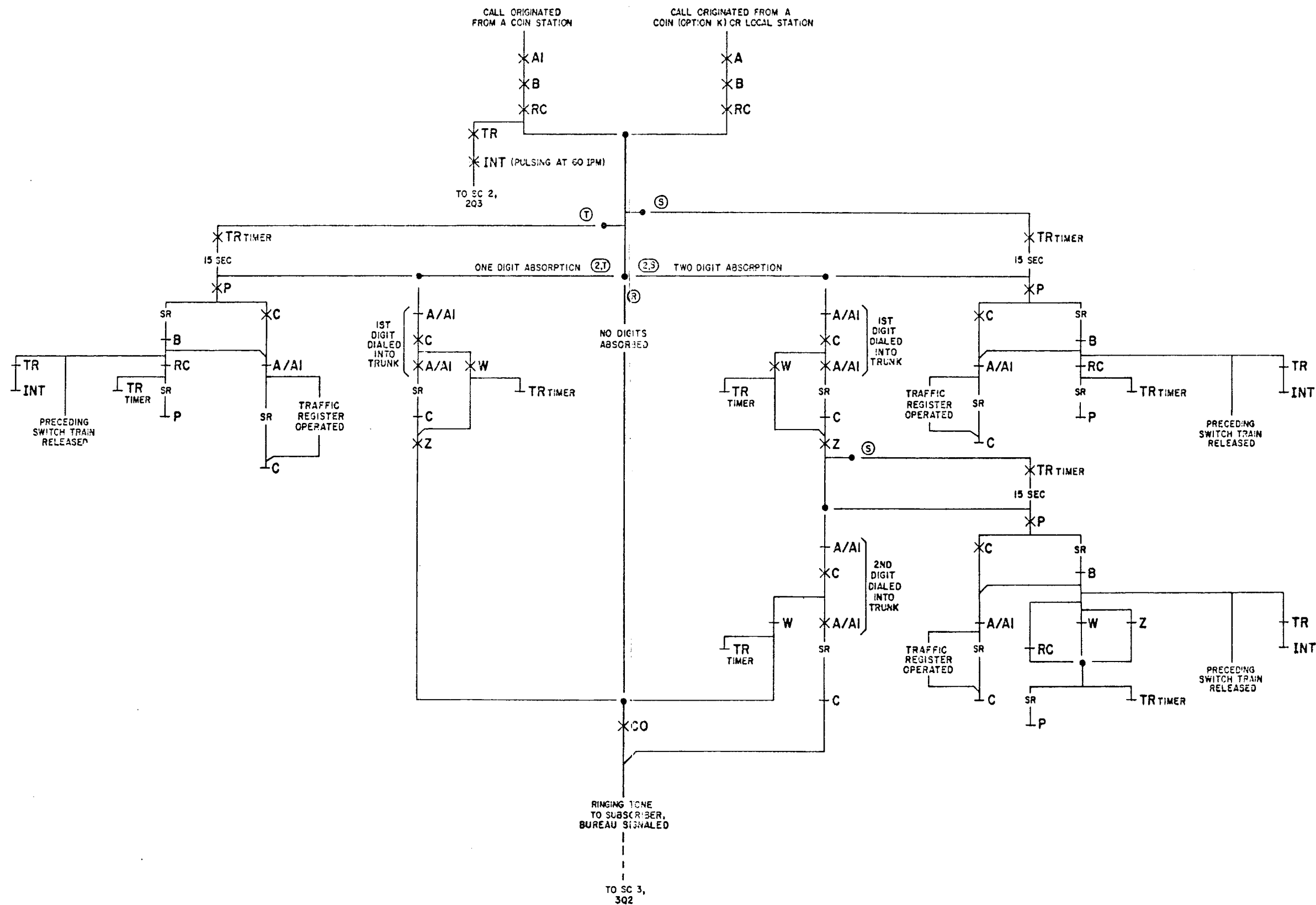
②

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SC 1 CALL TO BUREAU SEIZURE



TRUNK CIRCUIT		SD-35004-01-E1
BELL TELEPHONE LABORATORIES INCORPORATED		
6S		ISSUE 1

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COIN REFUND

FROM SC1,

FROM SC1,

* INT
(PULSING AT 60 IPM)

FROM SC 3,
3M7

*D

* INT

*RVI

+ INT

*w

*INT

✕ Z

+ INT

COIN REFUNDED

+ 4

*INT

XIII

42

*INT
(CONTINUES
PULSING AT
60 IPM)

TO SC 3,
3P7

TO SC 7, 7L3
OR SC 8, 8L3

ISSUE

②

SD-35004-01-E2

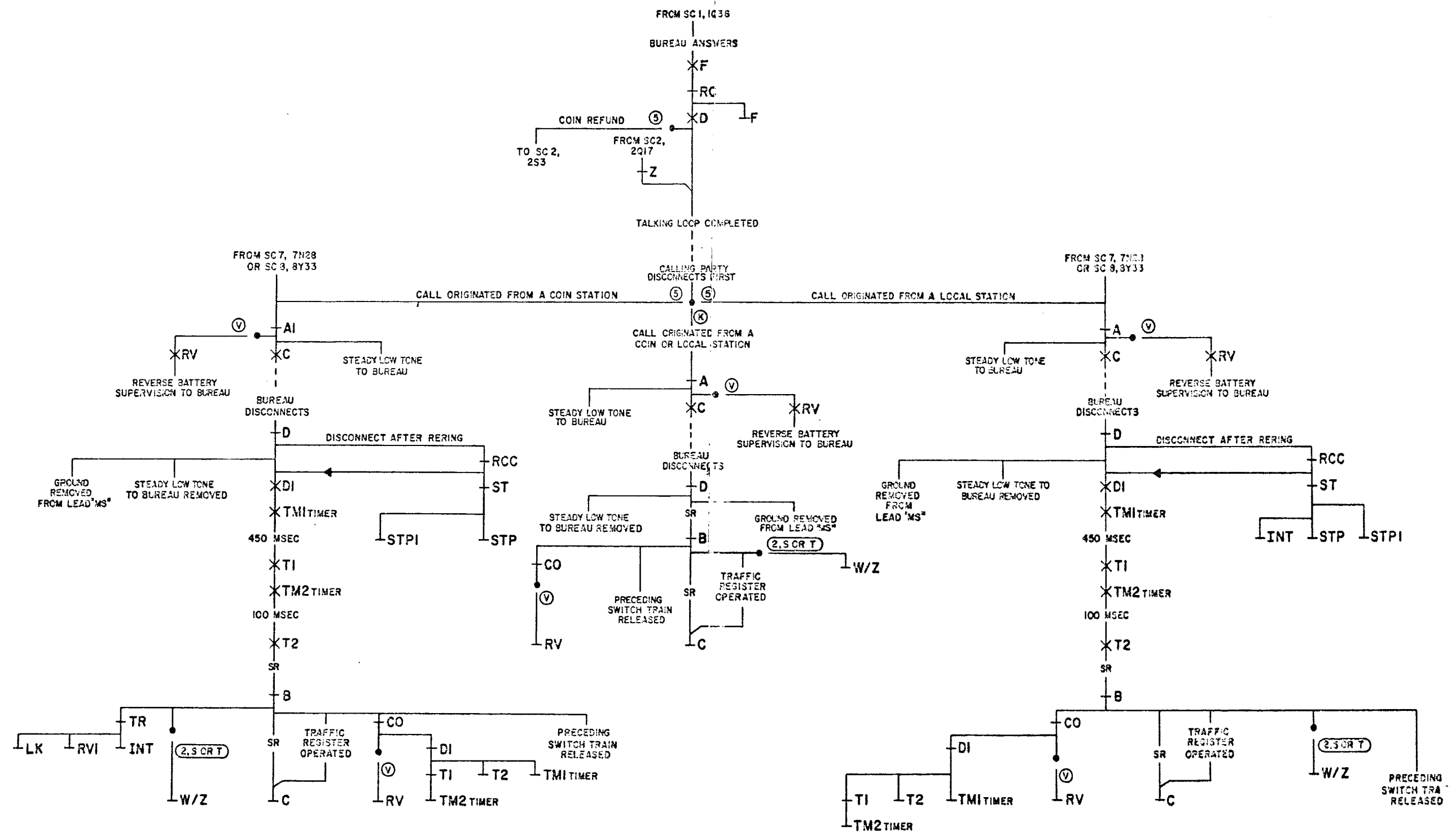
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2014년 4월 4일

A B C D E F G H J K L M N P Q R S T U V W X Y Z AA AB AC AD AE AF

SC 3
BUREAU ANSWERS CALL,
CALLING PARTY DISCONNECTS FIRST



SD-35004-01-E3

ISSUE
58U

TRUNK CIRCUIT	
BELL TELEPHONE LABORATORIES INCORPORATED	SD-35004-01-E3

SC 4
CALL TO BUREAU
(CALL ORIGINATED VIA A TANDEM
OFFICE, TRUNK NOT ARRANGED FOR
DIGIT ABSORPTION, OPTION K)

SEIZURE

X A

X B

X RC

X CO

RINGING TONE TO SUBSCRIBER,
BUREAU SINGLED

BUREAU ANSWERS

X F

RC

F

X D

TALKING LOOP COMPLETED

CALLING PARTY
DISCONNECTS FIRST

A

SR

B

X C

SR

C

TRAFFIC
REGISTER
OPERATED

CO

X L

TO SC 10,
10Q3

PRECEDING
SWITCH TRAIN
RELEASED

SD-35004-01-E4

ISSUE
58U

TRUNK CIRCUIT

2

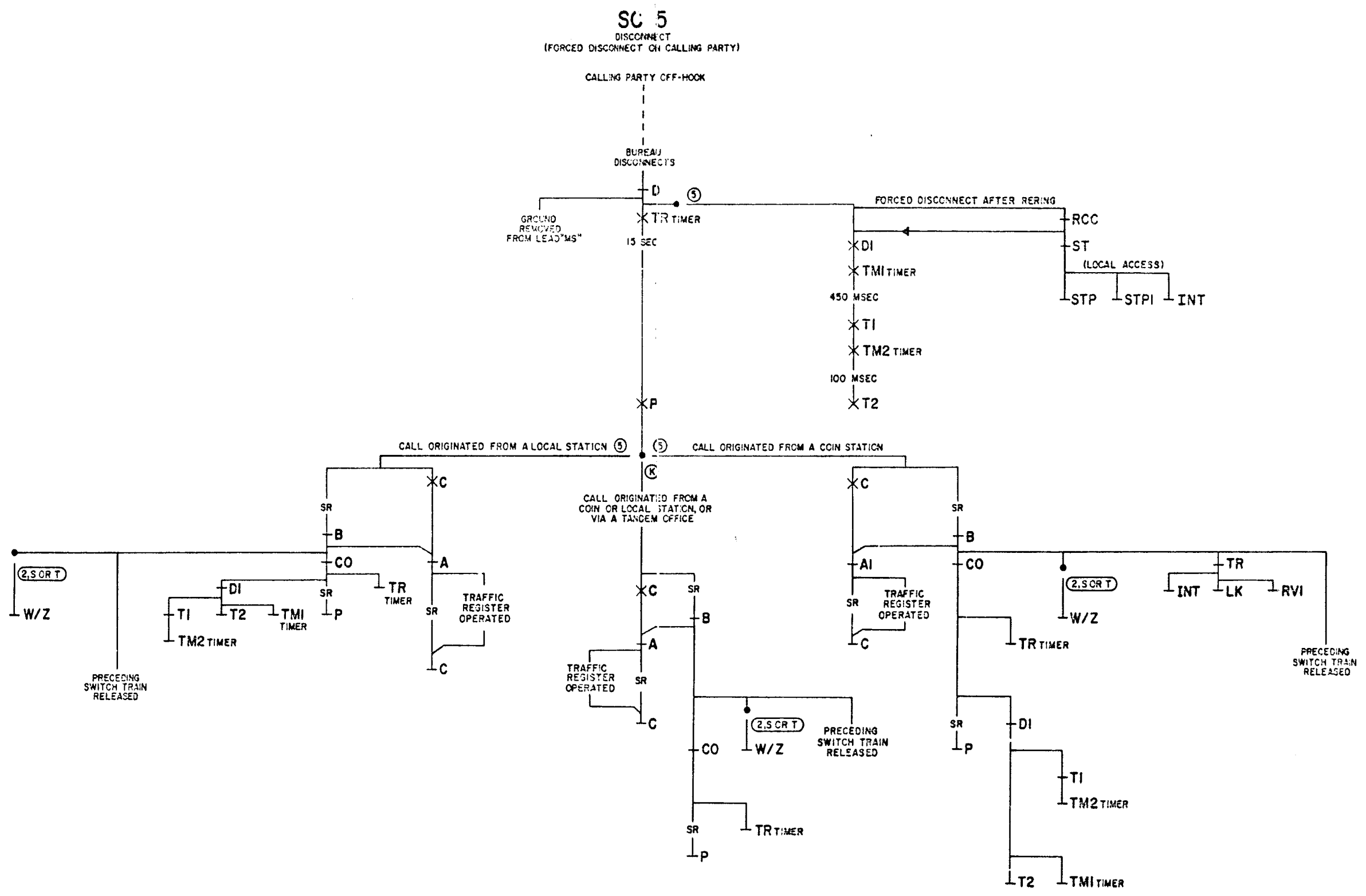
SD-35004-01-E4

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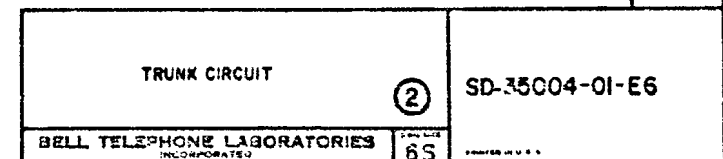
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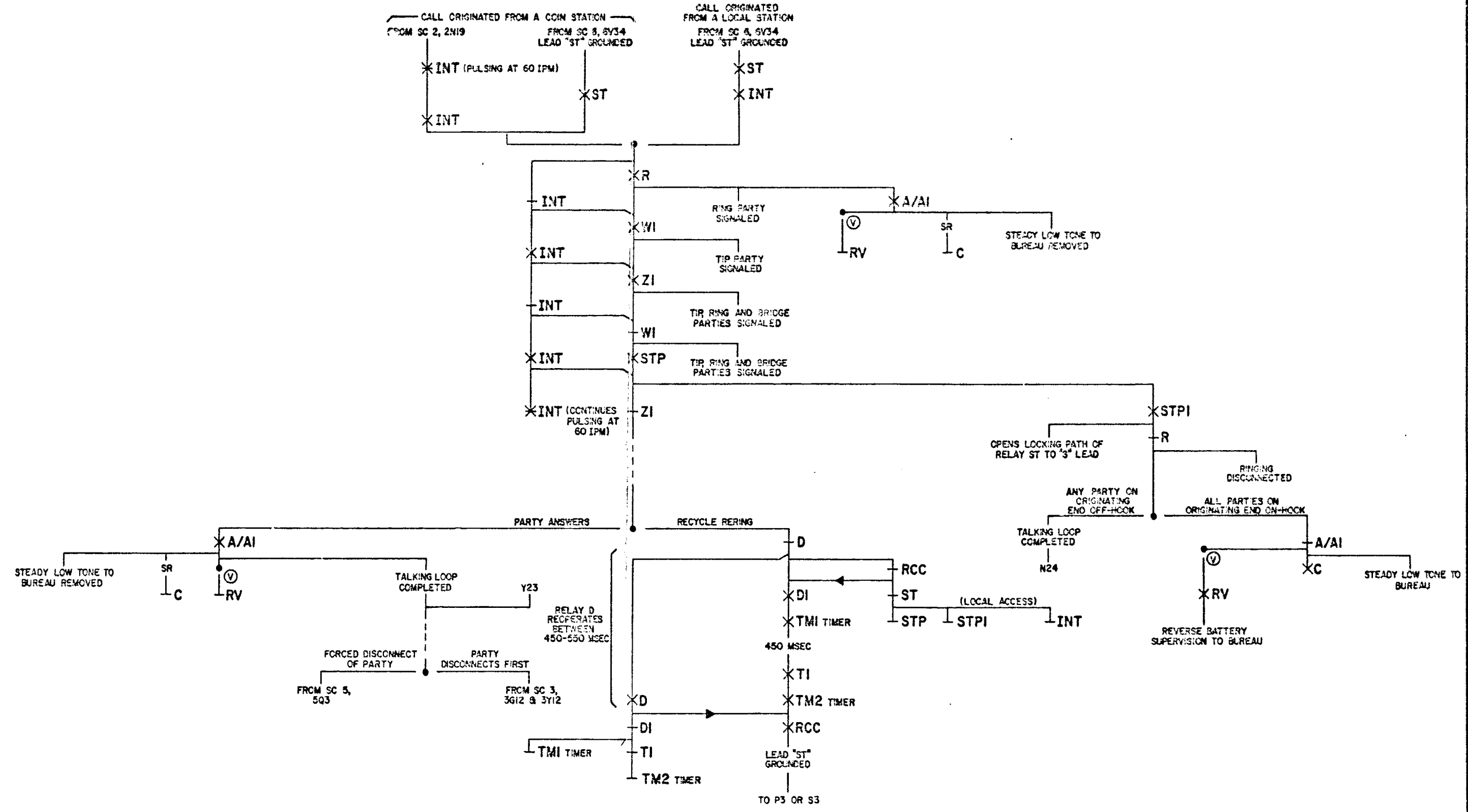
TRUNK CIRCUIT		②	SD-35004-01-E5
BELL TELEPHONE LABORATORIES INCORPORATED			
6S		ISSUE 1	

WINK DETECTION FOR RERING
(CALL ANSWERED BY BUREAU,
TALKING PATH COMPLETED)



SC 7

PERING
(SXS OFFICES WITH AC-DC AUDIBLE RINGING MACHINES)



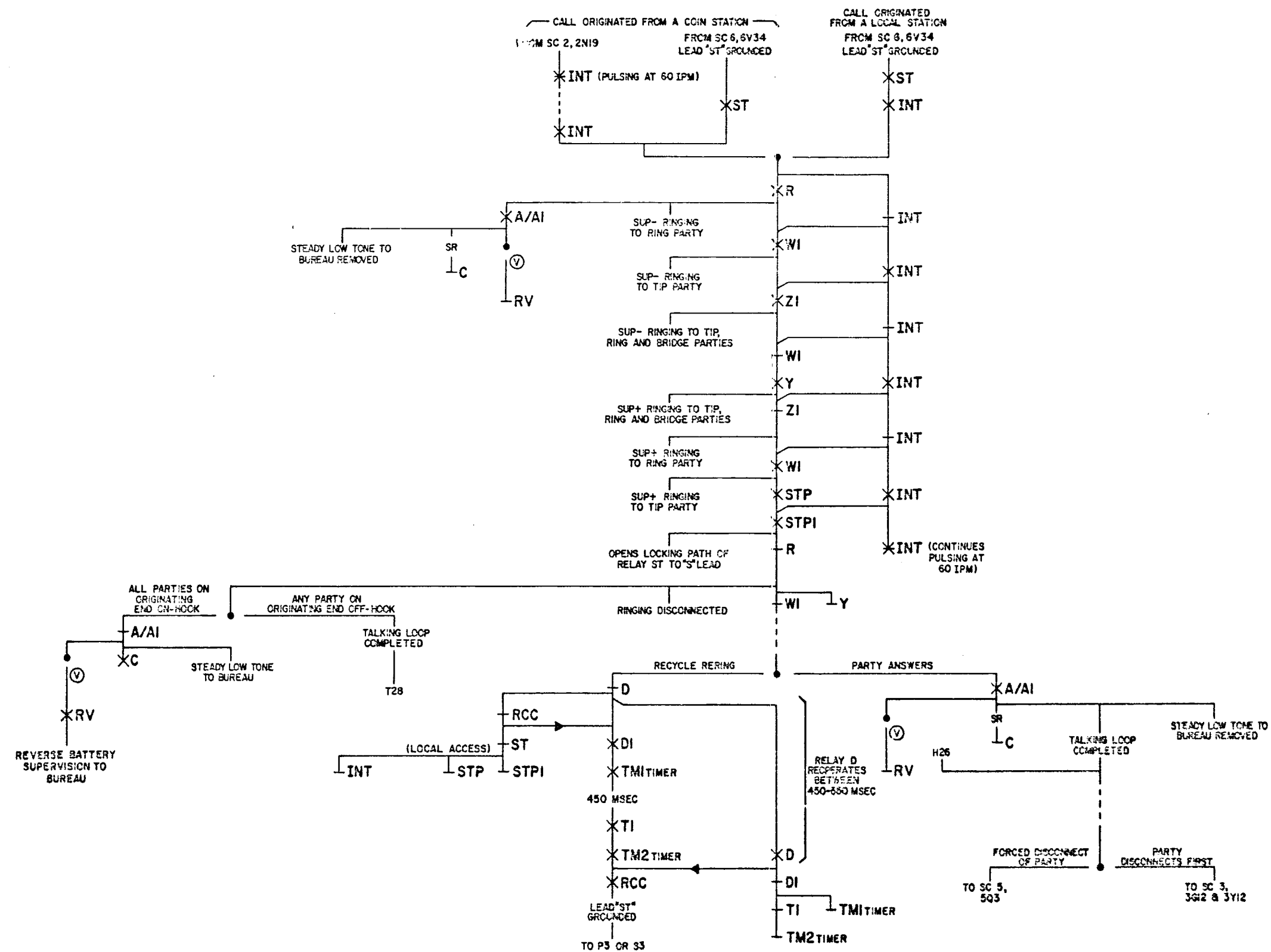
SD-35004-01-E7

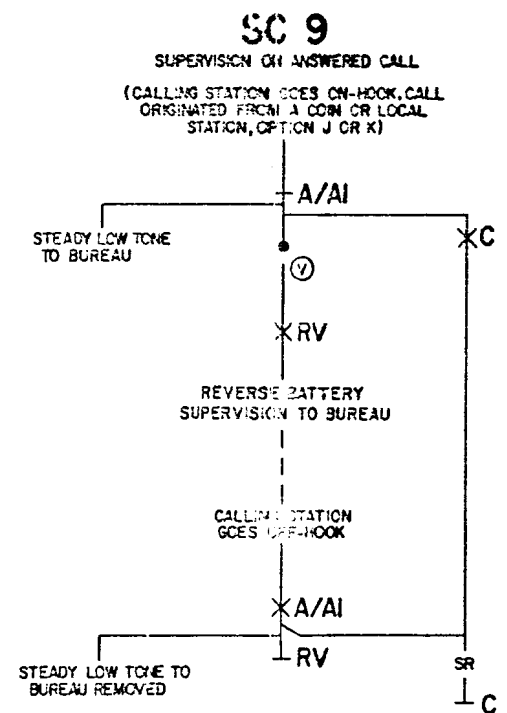
ISSUE
5BU

TRUNK CIRCUIT	②	SD 35004-01-E7
BELL TELEPHONE LABORATORIES INCORPORATED	6S	

SC 8

RERING
(SXS OFFICES WITH SUP-2 AUDIBLE RINGING MACHINES)





SD-35004-01-E9

ISSUE
5BU

TRUNK CIRCUIT	②	SD-35004-01-E9
BELL TELEPHONE LABORATORIES	6S	PRINTED IN U.S.A.

CIRCUIT REQUIREMENTS																			
APPARATUS				MECH REQ			CIRCUIT PREPARATION					TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQ					REMARKS
DESIG	CODE	CPT	FIG.	BSP FIG.	CONT PRES	ARM. TRVL	BLOCK OR INSULATE	TEST CLIP DATA			TEST WDG			TEST FOR	AFTER SCAR MA	TEST MA	READJ MA		
RELAYS																			
A	AJ66		1	58				TST JK A-2	TST JK A-1	M	1,2	P/S	O		16.5	15.5			
													R		6.4	6.8			
AI	AJ66		5	58				TST JK AI-2	TST JK AI-1	M	1,2	P/S	O		16.5	15.5			
													R		6.4	6.8			
AL1	1/2AK4		4	202					IL (AL1)	GRD	7	B	O		11.9	11.3	MOUNTED WITH AL2		
AL2	1/2AK4		4	202					IU (AL2)	GRD	7	T	O		11.9	11.3	MOUNTED WITH AL1		
B	AG16		1	2333					U (B)	GRD			O		17.5	16.5			
													H		2.6	2.1			
													R		1.1	1.4			
C	AG27		1	458					IU (C)	GRD			P	O	34	32			
													P	H	48	45			
													P	R	2.7	3.4			
							8M(C)	2L (C)	2U (C)	B/G	2	S	O		49.5	45			
CO	AF79		1	205			68(CO)		U (CO)	GRD			O		10	9.2			
													NO		4.3	4.5			
D	AJ110		1	319					IL (D)	2U (D)	M		P/S	O	31	20	19.3		
													R		2.9	3.2			
DI	AG58		5	388					IU	GRD	5,6	P	O	42	14.3	13.8			
													NO		6.9	7.3			
													H		2.1	2			
													R		1.2	1.5			
F	AJ118		1	53			CO(NO,RC)NO	U(F)	L(F)	B/G	3		O	-50	22	21			
													NO		18	19			
INT	AJ12		6	220					U	GRD	6		O		42.5	40.5			
L	AJ110		1	319			4M(L)		IL (L)	2U (L)	M		P/S	O	31	20	19.3		
													R		2.9	3.2			
LK	1/2AK22		5	216					IU	GRD	6	T	O		27.5	25	MOUNTED WITH W		
P	1/2AK35		1	202					2L (P)	IL (P)	B/G	4	B	O	48	31.5	30	MOUNTED WITH RV	
													H		4.4	4.2			

CIRCUIT REQUIREMENTS																			
APPARATUS					MECH REQ			CIRCUIT PREPARATION				TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQ					REMARKS
DESIG	CODE	OPT	FIG.		BSP FIG.	CONT PRES	ARM. TRVL	BLOCK OR INSULATE	TEST CLIP DATA		TEST WDG			TEST FOR	AFTER SCAR MA	TEST MA	READJ MA		
									CONN BAT.	CONN GRD									
R	AJ9		5		234					U	GRD	6		O		40	38		
RC	AG33				3058			68(F)		U (RC)	GRD			O	30	14.7	14		
														H		2.5	2.3		
														R		1.3	1.5		
RCC	1/2AK48		5		19					IL	GRD	5,6		O	60	25.5	25	MOUNTED WITH T2	
														NO		20	21.5		
														R		4.7	5		
RV	1/2AK33		1		202					IU (RV)	GRD			T	O		12.5	11.3	MOUNTED WITH P
RV1	1/2AK49		5		224					IL	GRD	6	B	O		11.9	11.3	MOUNTED WITH ST	
ST	1/2AK49		5		224			108(STPI)		IU	GRD	6	T	O		11.9	11.3	MOUNTED WITH RV1	
STP	1/2AK4		5		202					IL	GRD	6	B	O		11.9	11.3	MOUNTED WITH STPI	
STPI	1/2AK4		5		202					IU	GRD	6	T	O		11.9	11.3	MOUNTED WITH STP	

TEST NOTES:

1. ARMATURE BACK TENSION MIN 20 GRAMS READJUST, 15 GRAMS TEST.
2. ADJUSTED ON LIGHT CONTACT FORCE.
3. CONTACT BREAK 5, NO BREAK 8.5 READJUST; BREAK 3.5, NO BREAK 10, TEST
4. REMOVE TIMER (TR).
5. REMOVE CP 6 TIMER.
6. SEE BSP 226-160-300; METHOD OF TAKING EQUIPMENT OUT OF SERVICE.
7. REMOVE TIMER (TN).

ISSUE
48

TRUNK CIRCUIT

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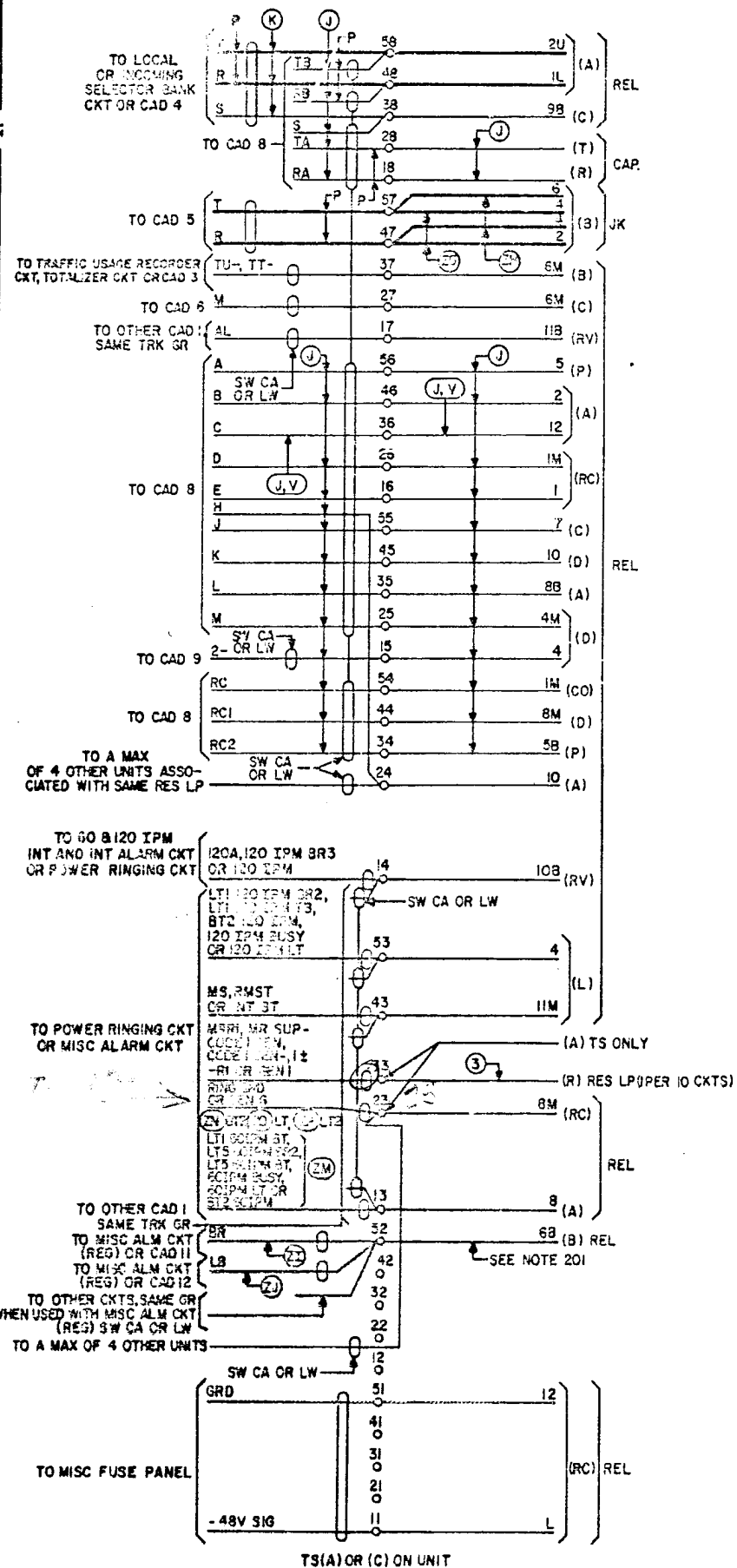
APPARATUS				MECH REQ			CIRCUIT PREPARATION				DIRECT CURRENT FLOW REQ							REMARKS
DESIG	CODE	QPT	FIG.	DSP FIG.	CONT PRES	ARM. TRVL	BLOCK OR INSULATE	TEST CLIP DATA		TEST SET PREP	SEE TEST NOTE	TEST WOG	TEST FOR	AFTER SOAK MA	TEST MA	READU MA		
								CONN	BAT.								CONN	
T1	AF31		5	3			(D110		U	GRD	1, 2		0		20.5	19.5		
T2	1/2AK48		5	19			(D110		IU	GRD	1, 2	T	0	60	28.5	25	MOUNTED WITH RCC	
													0		20	21.5		
													0		4.7	5		
TR	AJ83		5	249			5W (TR)		U	GRD	2		0		13.2	12.8		
W	1/2AK30		2	202			88(Z), 115(Z)		IL (W)	GRD		B	0		23	22	MOUNTED WITH Z	
W	1/2AK22		5	215					IL	GRD	2	B	0		27.5	25	MOUNTED WITH LX	
WI	1/2AK22		5	216					IU	GRD	2	T	0		27.5	26	MOUNTED WITH Z1	
Y	AF67	F	5	207					U	GRD	2		0		7.2	6.8		
Z	AF16		5	204			5B (V)		U	GRD	2		0		30.5	29		
Z	1/2AK30		2	202			88(Z), 48(W)		IU (Z)	GRD		T	0		23	22	MOUNTED WITH W	
Z1	1/2AK22		5	215			88(W)		IL	GRD	2	B	0		27.5	26	MOUNTED WITH W1	

[illegible]

HW

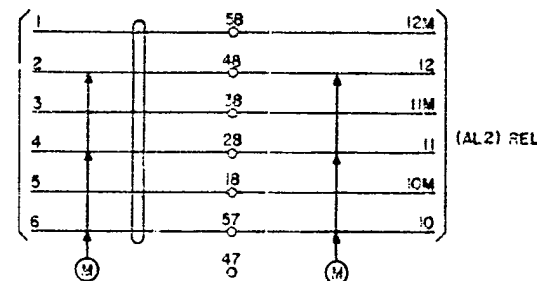
6

CAD 1 (FOR APP FIG. 1 & 3)

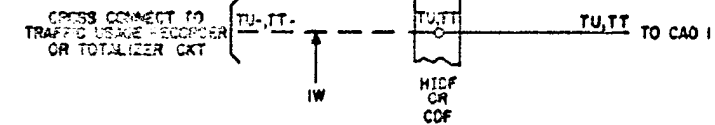


CAD 2 (FOR APP FIG. 2)

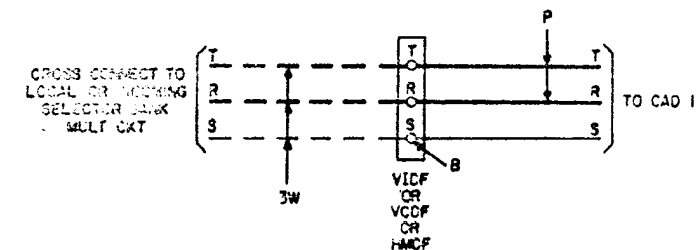
TO ALARM CKTS AS REQUIRED (SEE TABLE A, SHEET 32)



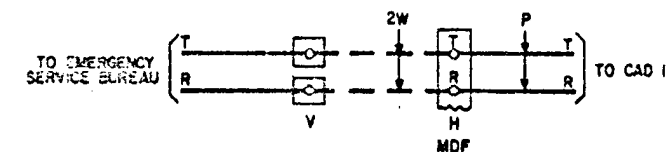
CAD 3 (FOR APP FIG. 1)



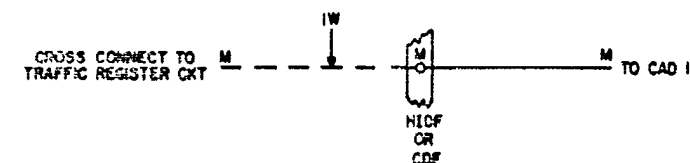
CAD 4 (FOR APP FIG. 1)



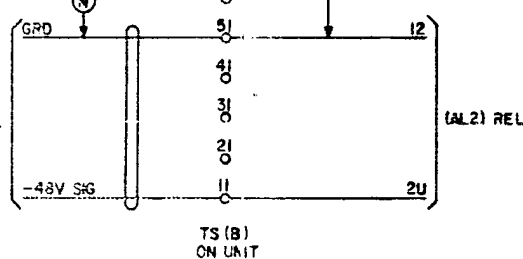
CAD 5 (FOR APP FIG. 1)



CAD 6 (FOR APP FIG. 1)

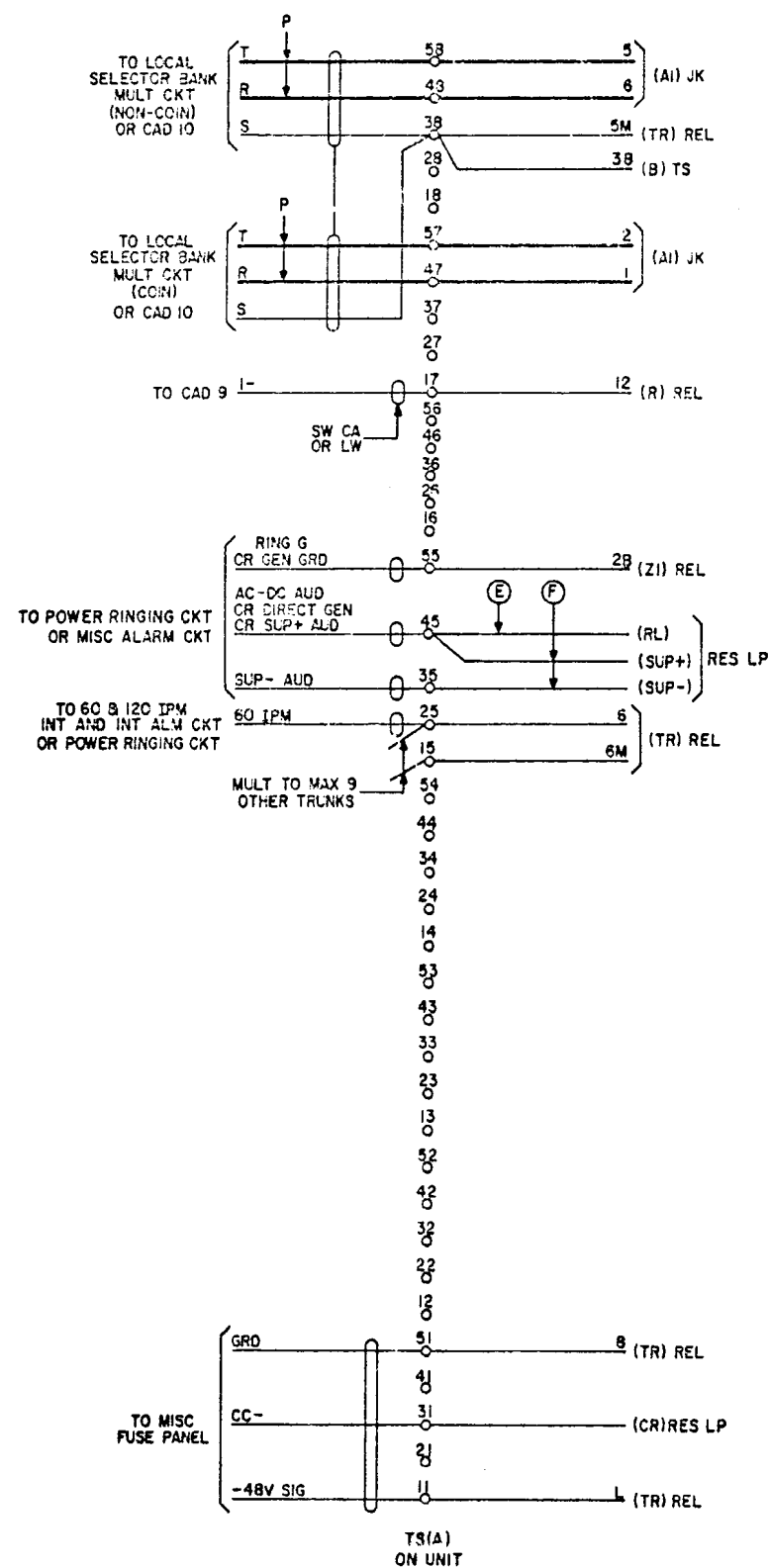


TO MISC FUSE PANEL

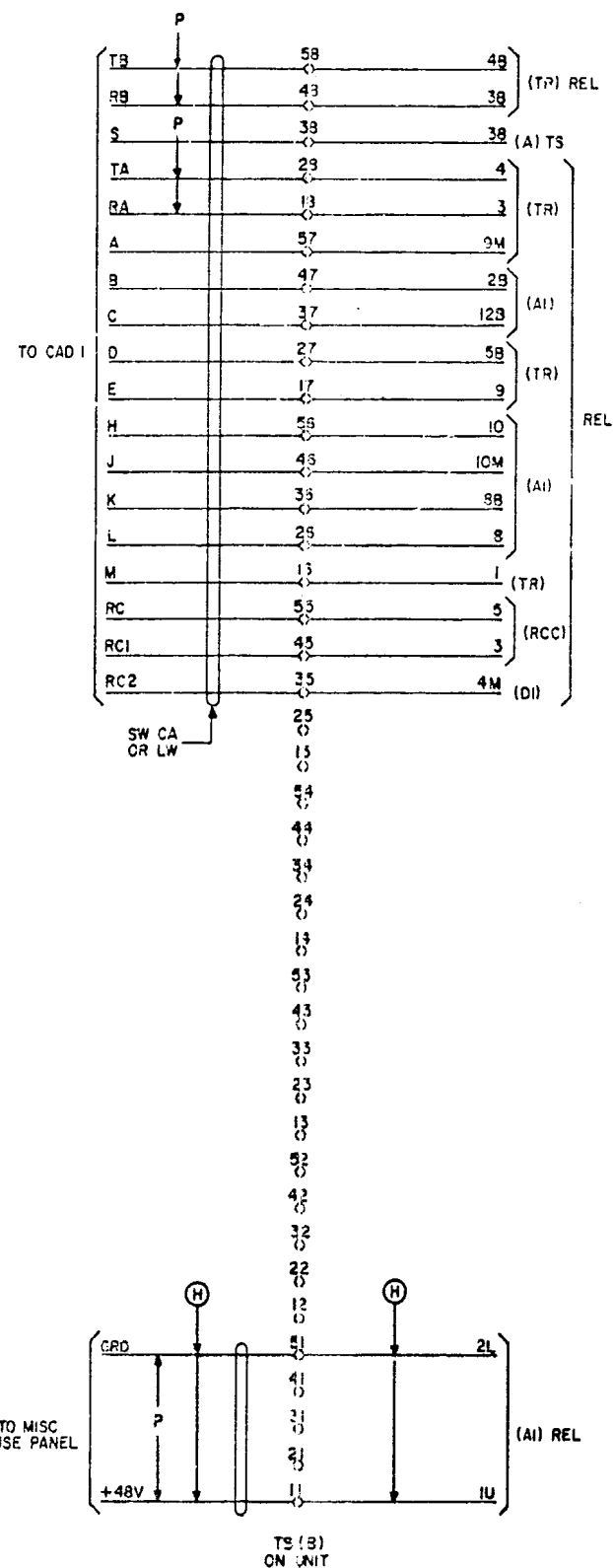


TRUNK CIRCUIT		SD-35004-01-G1
BELL TELEPHONE LABORATORIES		65

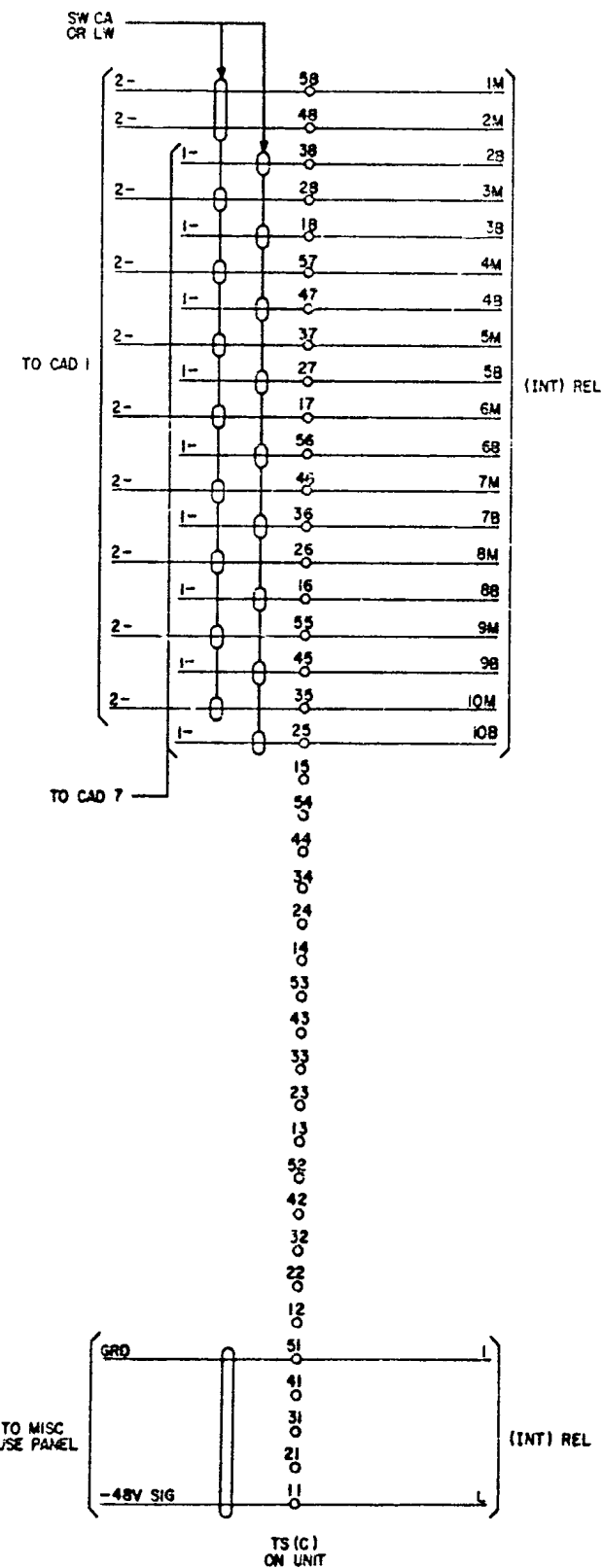
CAD 7
(FOR APP FIG. 5)



CAD 8
(FOR APP FIG. 5)



CAD 9
(FOR APP FIG. 6)



SD-35004-01-G2

ISSUE
3B

TRUNK CIRCUIT

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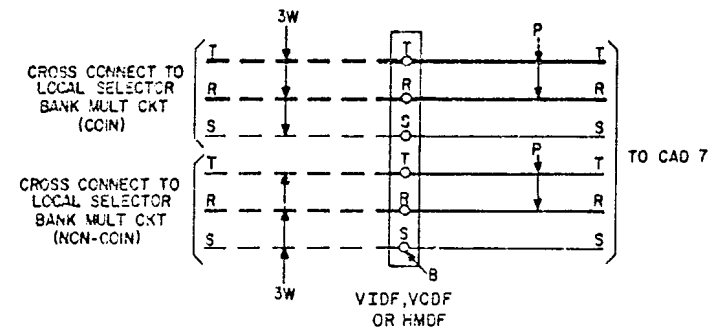
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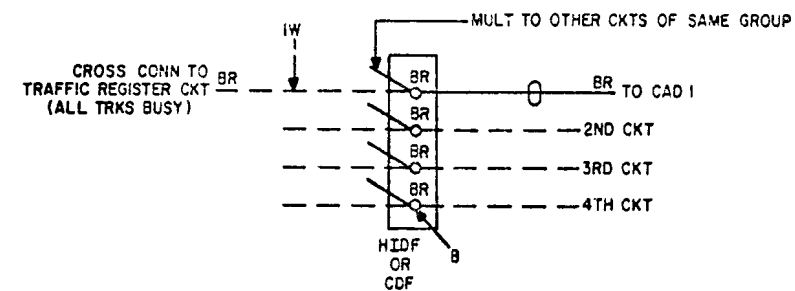
6S

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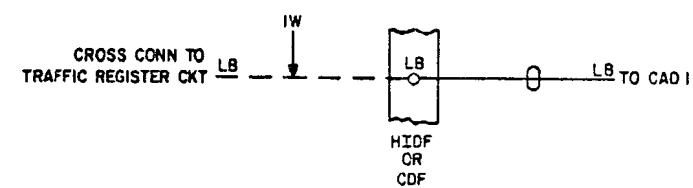
CAD 10 (FOR APP FIG. 5)



CAD 11 (FOR APP FIG. 1)



CAD 12 (FOR APP FIG. 1)



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ISSUE
3B

TRUNK CIRCUIT

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