

SHEET INDEX

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SUPPORTING INFORMATION

CATEGORY	NO.
756A PBX CABLING DRAWING	SD-65746-01
EQUIPMENT INFORMATION	J58829T-()
OPERATION TEST BSP	551-195-501

DWG ISSUE	CD	DATE ISSUED	BY	APPD
1	1	6-19-59	WFS	PJS
2D	2D	10-7-59	WFS	PJS
3D	3D	3-14-60	WFS	PJS
4B	3D APP1	3-9-61	J.F.	RJB WFS PJS
5B	3D APP2B	8-28-61	S.J.F.	DN RHF WFS PJS
6B	4B	9-2-66	JJR SAK RCL	HED GFH LAH
7D	4B APPID	8-15-69	RPR	WEK RVL LDJ
8D	5D	6-29-72	GQS	WVS RGP AFR
9D	5D APPX 1D	2-26-74	CBH	WVS RVL AFR
10D	5D APPX 2D	5-22-75	CBH	WVS FKB AFR

- 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 THE 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.

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

2J07

**PBX SYSTEMS
 NO. 756A
 TIE TRUNK CIRCUIT**

OUTGOING MANUAL AND DIAL SELECTED WITH 2 SECOND RINGING SIGNAL
 INCOMING RINGDOWN

(T TRK OG MAN. & D SEL INC RD)

BELL TELEPHONE LABORATORIES, INC. 65

ABM ONLY

SD-65756-01-A1
 13 SHEETS

APPARATUS INDEX

DESIG	LOCATION		
	FS	APP FIG.	EQPT
RELAYS			
-AC	1B6	I	
ACA	1A7	I	
AO	2D6	I	
BY	3A2	I	
DR	1F3	I	
FF	1A2	I	
HD	2G5	I	
NM	2E3	I	
LO	1G8	I	
MC	2G4	I	
P	1E3, 1D3	I	
PC	3E2	I	
R	1F7	I	
RI	2C8	I	
RS	3C2	I	
RT	1G2	I	
S	1D5	I	
SI	1C1	I	
SL	2A3	I	
SR	1C1	I	
T	1A8	I	
TI	1B8	I	
TC	1G4	I	
TT	3D2	I	

CAPACITORS			
A	1E8	I	
BR	1F7	I	
D	1E6	I	
FB	1E2	I	
L	1E6	I	
RV	1E3	I	

DIODES			
A	1E2	I	
B	1D3	I	
C	1E6	I	
D1	1E7	I	
D2	1E7	I	
D3	1E7	I	
D4	1E7	I	
F	2A2	I	
G	2A3	I	
H	1B2	I	
J	1D4	I	
K	1D5	I	
L	1A8	I	
M	1B2	I	
N	1G3	I	
P	1G1	I	

LEAD INDEX

DESIG	FS LOC
ALARM TRANSFER AND TEST CIRCUIT	
SI	2B9

CORD RINGING SUBSET	
L1	1C7
L2	1C7

CORDLESS POSITION CIRCUIT	
ACA	1A6
BT	3E8
BZ	3F8
BZ(3,4,8,9)	3F8
FB	2F7
H	2F8
HD	2G8
HG	2F8
HM	2E8

RESISTORS	
H	1E5
ITT	1E5
IL	1C5
L	3D8
PD	2A4
S	3C8
SL	2B4
T	3B8
TL	1E7
TLI	1D7

THERMISTORS	
R1	2C8
R2	1D7
R3	1F7

TRANSFORMERS	
A	1E6

2ND CORDLESS POSITION CIRCUIT	
SL2	3C8
TL2	3B8

DISTANT PBX	
R	1D9
T	1D9

DESIG	FS LOC
MARKER CIRCUIT	
BAT	2F2
BY1E,0)	3B1
CK	2A2
FF1E,0)	1A1
IT(93,94,98,99)	2F2
M(E,0)	2E2
NT	3F1
R	1F1
RLS(E,0)	2G2
RS1E,0)	3C1
RT1E,0)	1H2
S	2B2
ST(3,4,8,9)	2F2
T	1D1
TR(0,1)	3G4
TT(E,0)	3E1
U(3,4,8,9)	3G4

POWER SUPPLY CIRCUIT	
BT	3E4
CR	3F4
F(1,2)	3D4
FF(1,2)	3E4
FT	3E4
RI	1H2
RING G	1H1
SF(1,2)	3C4

TMS REMOTE SCANNER	
TU(T-)	2D3
TU(T-A)	2D5

OPTION INDEX

APP OR WIR	LOCATION
Z	2F2
Y	2F2
X	1E7
W	1E7
V	1D7, 2C7, 3F1
U	1A8, 2C8, 3F1, 3F7
T	3F8
S	3F8
R	APP FIG. 1
Q	APP FIG. 1
N	1E7, 2C8
M	1D3, 1E2, 1E6, 1E7, 2A2, 2A3, 2C8
K	1D3, 1E2, 1E6, 1F5, 2A2, 2A3
J	1A8, 1B2, 1C2, 1E3, 1E5, 1G5, 2E4, 2G4
H	1A8, 1B2, 1C2, 1E3, 1E5, 1G5, 2E4, 2G4
G	1D4, 1D5, 1G3
F	1F2, 1G2
E	APP FIG. 1
B	APP FIG. 1
A	2C8, 2F3
ZA	1E2
ZB	1F2
ZC	3F7
ZD	2D7
ZE	2D8
ZF	3F7

DRAWING ISSUE	
1	HC
3D	ASO
4B	RUE
5B	DM
6B	JUP
7D	RUE
	LD

ISSUE 8D

TIE TRUNK CIRCUIT

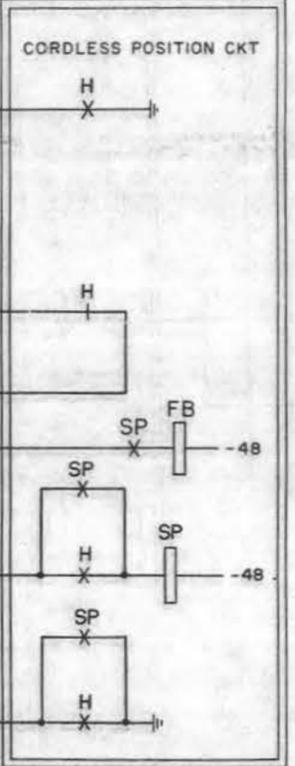
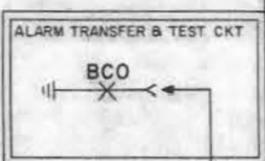
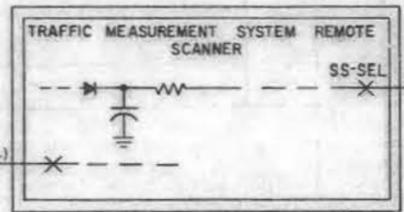
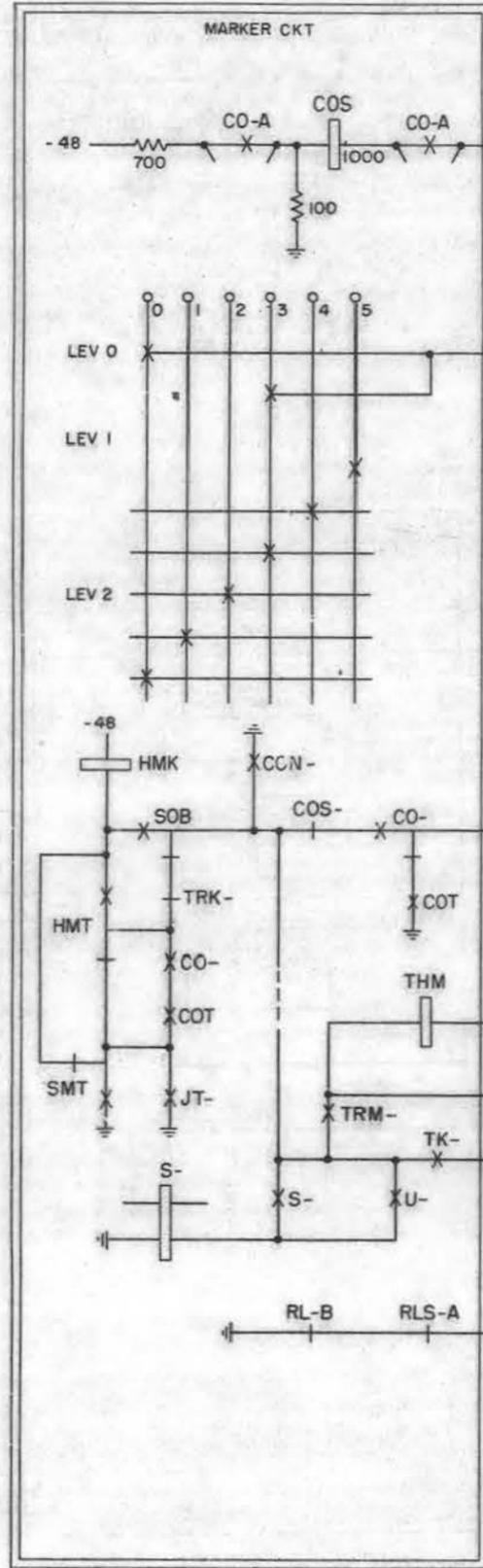
SD-65756-01-A2

BELL TELEPHONE LABORATORIES
INCORPORATED

SD-65756-01-A2

FS 2
SLEEVE AND HOLD MAGNET CONTROL
(SEE NOTE "A" FOR MULTIPLE DESIGNATIONS)

DRAWING	ISSUE
1	100
5B	
6B	
7D	

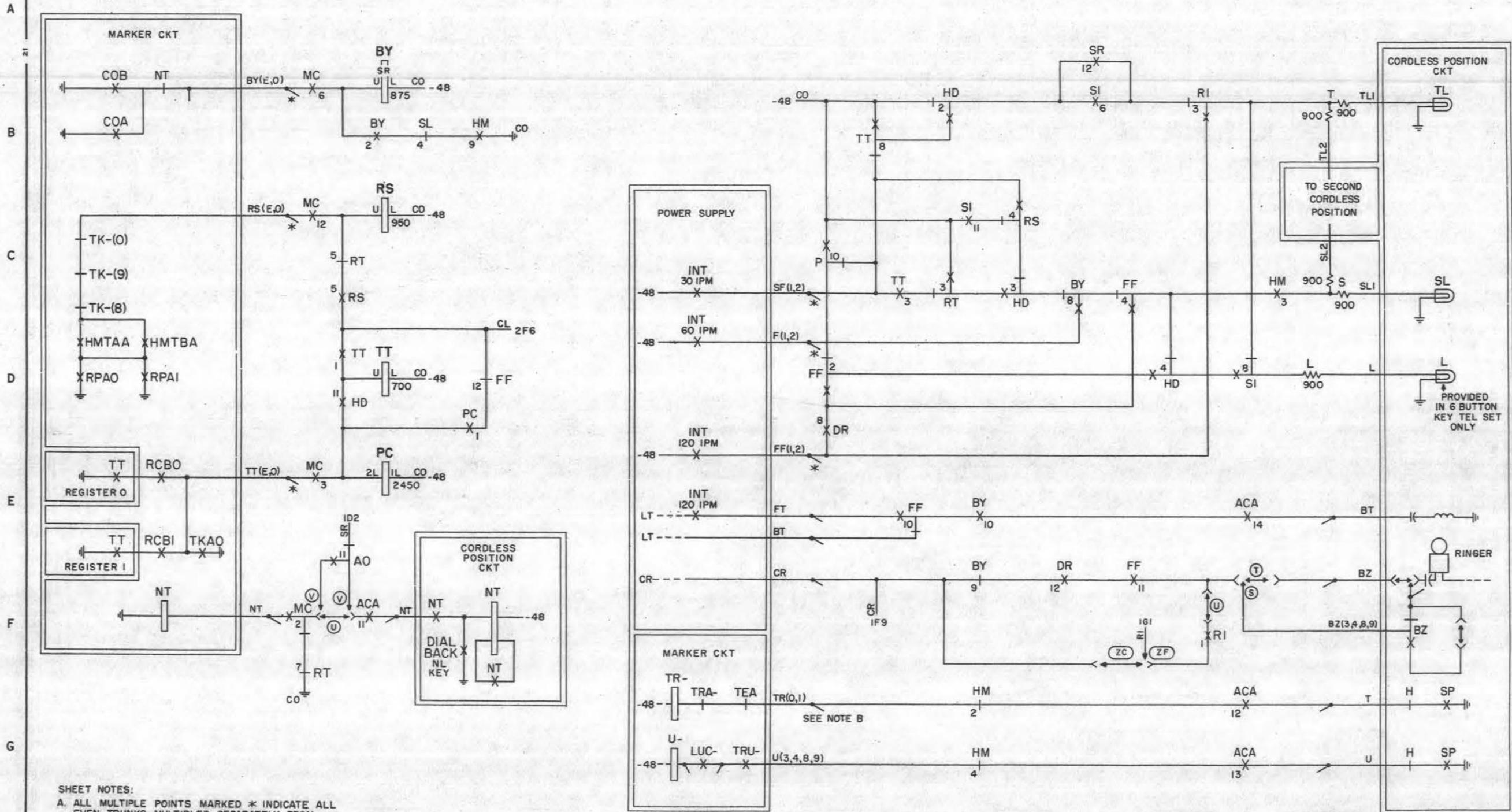


SHEET NOTES:
A ALL MULTIPLE POINTS MARKED * INDICATE ALL EVEN TRUNKS MULTIPLIED SEPARATELY FROM ALL ODD TRUNKS.

TIE TRUNK CIRCUIT	SD-65756-01-B2
BELL TELEPHONE LABORATORIES INCORPORATED	65

FS 3
 MARKER INFORMATION RELAYS
 (SEE NOTE "A" FOR MULTIPLE DESIGNATIONS)

FS 4
 AUDIBLE & VISUAL SIGNALS



SHEET NOTES:
 A. ALL MULTIPLE POINTS MARKED * INDICATE ALL EVEN TRUNKS MULTIPLIED SEPARATELY FROM ALL ODD TRUNKS.
 B. MULTIPLE TRUNKS 3 AND 4 ON LEAD "TRO" AND TRUNKS 8 AND 9 INCLUSIVE ON LEAD "TRI".

SD-65756-01-B3

DRAWING ISSUE
 1
 3D
 8D
 ISSUE 8D

TIE TRUNK CIRCUIT
 BELL TELEPHONE LABORATORIES INCORPORATED
 SD-65756-01-B3
 6S

APP FIG. 1

RELAY		AC		AO		PC		BY		DR		RI		FF		HD		HM		LO		SL		DESIG						
CODE	AF139	AK4				AG33				AK8				AJ15				AJ15				AF100				AK6				CODE
OPTION	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	OPTION					
12	M	1A7	M	1A7	EM	1F3	M	3F6	EM	3D2	EM	2B3	EM	2G6	M	1G6								12						
11	M		EM	3E2			M	2A2	EM	3F7	EM	3D1	M											11						
10	M		EM	2D6		M	3E6	EM	1F2	EM	3E8	EM	1E4	FBM	1A7	B	1A8							10						
9	B	1F4	EM	2D6		B	3F6	EM	1E1	EM	1C2	EM	2F6	M	3E2									9						
8	EM	1B1	EM	2E5		EM	3C6	EM	3D5	EM	1A8	EM	1E5	EM	2F4	BM	2F3							8						
7	B	2G6			B	1D1				EM	2B3	EM	2G6											7						
6	EM	1A6			EM	2B2				EM	1E4	EM	2E6	EM	2F2									6						
5	B	2F6			EM	1F6	B	1F1		EM	2C8	EM	1E5											5						
4	EM	2E5			EM	1E8	EM	2B4		B	2C7	EM	3C7	EM	3D7	EM	3G6			B	3B2			4						
3	B	1D4			EM					EM	3B7	EM	1F6	EM	3C6	M	3C8							3						
2					EM	1D8	M	3B2		EM	1G5	EM	3D6	EM	3B6	EM	3G6			M	2E4			2						
1					M	3E2	M	1B1		M	3F7	EM	1B2	EM	1F4	M	2F4							1						
COIL		1B6		2D6		3E2		3A2		1F3		2C8		1A2		2G5		2E3		1G6		2A3		COIL						

RELAY		MC		P		P		TC		RS		RT		S		S1		SR		T		T1		TT		DESIG													
CODE	AJ56	AJ28				AK7				AJ3				AJ58				AJ26				AG34				AG34				AG24				AG24				AJ12	CODE
OPTION	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	OPTION												
12	EM	3C1	EM		EM	2G4		EM	1E5	EM	1G2			M	a	M	3A7			EM	2E4					12													
11	BM	1G2	M		EM	2E4		EM	1E4	B	1E5			M	3C6	M	1G5			EM	1E4					11													
10	M	1A2	EM		EM	3C5	EM	3C5	EM	1D1	M	1F3	B	1F5	EM	2F3	EM	2F3	M	1B2	M	1G5				10													
9	PMEB	2E3	M		EM	1G2		EM	1E5			M	1F3	EM	1G5											9													
8	EM	2F4	EM		EM	2E4	EM	1E5		EM	2F7			M	1A8	EM	3D7	EM	2D7	EM		BM	1G5			8													
7	B	1G2								B	3F1															7													
6	M	3B1	EM						EM	2B3			BM	1B2	EM	3B7	EM	1D9	EM		BM	1C2				6													
5	B	1E3	M		EM	2G4		EM	1G5	M	3C1	B	3C1													5													
4	PMEB	2G4	EM		EM	1C2	EM	3C6	M	1B2	M	1G6	EM	2C7	EM	1F9	M	1B8	M	a						4													
3	M	3E1	M		EM	1B2	EM	2G5	EM	3G6				EM	1F6	EM	1C2									3													
2	PMEB	3F1	EM		EM	1E5		EM	1B2	EM	1F2	M	2F6			EM	1F6	EM	1C2							2													
1	M		M		EM	1A8	EM	2E5	M	2E6				M	1B2	M	1F8									1													
COIL		2C4		1E3		1D3		1G5		3C2		1G2		1D5		1C1		1C1		1A8		1B8		3D2		COIL													



RELAY		ACA	
DESIG	CODE	AJ202	
OPTION	CONT	LOC	CONT
24	M		
23	M		
22	M		
21	M	2F7	
20	M		
19	M	2D6	
18	M	2E7	
17	M	1A7	
16	M	2E6	
15	M	2F7	
14	M	3E7	
13	M	3G7	
12	M	3G7	
11	M	3F2	
10	M		
9	M	2G7	
8	M	2G7	
7	M	1C5	
6	M	1A6	
5	M	2F7	
4	M	1C4	
3	M	1C4	
2	M	1C4	
1	M	1C5	
COIL		1A7	



RESISTOR		
DESIG	LOC	CODE
H	1E5	KS-8512, L3A 1000
ITT	1E6	KS-13492, L1, 200
IL	1C5	KS-13492, L1, 820
L	3D8	1BFB
PD	2A4	1BGF
S	3C8	1BBA
SL	2B4	1BBW
T	3B8	1BBA
TL	1E7	KS-13492, L1, 1200
TL1	1D7	KS-13492, L1, 3900

CAPACITOR		
DESIG	LOC	CODE
A	1E8	KS-13614, L6, 0.05 UF
BR	1F7	KS-13614, L6, 0.05 UF
D	1E6	4370A
FB	1E2	KS-13614, L6, 0.05 UF OR KS-20300, L3, 0.047 UF
L	1E6	4370A
RV	1E3	444A
RV	1E3	KS-13486, 60UF

THERMISTOR		
DESIG	LOC	CODE
R1	2C8	8B
R2	1D7	8A
R3	1F7	8A

DIODE		
DESIG	LOC	CODE
A	1E2	KS-15724, L2
A	1E2	446F
B	1D3	KS-15724, L2
B	1D3	446F
C	1E6	KS-15724, L2
C	1E6	446F
D1	1E7	400E
D2	1E7	400E
D3	1E7	400E
D4	1E7	400E
F	2A2	KS-15724, L2
F	2A2	446F

DIODE		
DESIG	LOC	CODE
G	2A3	KS-15724, L2
G	2A3	446F
H	1B2	446F
J	1D4	446F
K	1D5	446F
L	1A8	446F
M	1B2	446F
N	1G3	446F
P	1G1	446F

PAD
DESIG LOC CODE
PR 1D8 1C (MODIFIED)
WITH 88 TYPE RES

TRANSFORMER		
DESIG	LOC	CODE
A	1E6	202A REP COIL

DRAWING
ISSUE
1
2D
4B
5B
6B

ISSUE
8D

TIE TRUNK CIRCUIT 2 SD-65756-01-C1
BELL TELEPHONE LABORATORIES
INCORPORATED
65
PRINTED IN U. S. A.

SD-65756-01-C1

CIRCUIT NOTES:

DESIG	FUSE AMP	POTENTIAL	ONE PER	TERM. DESIG
CO	1-1/3	-4EV TALK	APP FIG. 1	
CC		GROUND		

BATTERY SYMBOL	VOLTAGE RANGE
-4E	45-52V

CIRCUIT NOTES: (CONT)

NETWORK VALUES		
NETWORK	RES IN OHMS	CAPACITANCE IN UF

104. RECORD OF APPARATUS FIGURES, WIRING AND APPARATUS CHANGES

CHANGED ON ISS	IF JOB RECORDS DC NCT SPECIFY	THIS OPTICN WAS FURN	SEE NCTE	USE IN CIRCUIT		
				STD	A&M	N.D.
3D	S OR T	T		S		T
4B	Q OR R	R		Q		R
5B	M OR N	N		M		N
5B	K	NONE		K		
6B	J,H	J		H		J
6B	G	NONE	202			G
6B	E,B	E		B		E
6B	F	NONE		F		
7D	A	NONE		A		
8D	ZA OR ZB	ZA		ZB		ZA
8D	ZD OR ZE	ZD		ZE		ZD
8D	ZC OR ZF	ZF		ZC		ZF
8D	CAP	NONE		KS-20300, L3, .047UF OR KS-13614, L6, .05UF		
10D	ZD OR ZE	ZD	102	ZD,ZE		

102.

FEATURE OR OPTION		APP FIGS	APP OR WIR	QUANTITY
TIE TRUNK		1		ONE PER TRUNK
INCOMING RINGING	DIRECT, THRU REPEATING COIL, OR THRU BY-PASSING CAPACITORS		X	
	THRU BLOCKING CAPACITORS		W	
			X	
CODE RINGING	REQUIRED		V	
	NOT REQUIRED		U	
TRUNK EQUIPPED AND ASSIGNED AS NON-CODE RINGING TRUNK				Y
TRUNK EQUIPPED AND UNASSIGNED				Z
LOCKING GROUND FOR RELAY R1 UNDER CONTROL OF (SEE NOTE 106)	TRUNK CONSOLE	ZD		
		ZE		

105. PROVIDE 89 TYPE RESISTORS IN PAD (PR) AS FOLLOWS:

LINE IMPEDANCE AT 1000~	LOSS (db)	CODE	WINDING RESISTANCE	
			1-2 OR 3-4	5-6
800 OR LESS	3	89N	123.8	1454
	4	89TN	174.8	1030
	5	89AA	223.4	771
	6	89AE	299	602.2
801 TO 1250	3	89 TYPE PER D-164335	239	2626

CIRCUIT NOTES: (CONT)

106. ON NIGHT CONNECTIONS WITH OPTION ZD, RELAY R1 OPERATED ON AN INCOMING CALL, LOCKS UNDER CONTROL OF RELAY S1 RELEASED. SINCE THE CALL IS NOT ANSWERED, RELAY S1 NEVER OPERATES TO RELEASE RELAY R1. RELAY R1 FLASHES THE TRUNK LAMP IN THE CONSOLE AND OPERATES THE CONSOLE RINGER CONTINUOUSLY. WITH OPTION ZE, THE LOCKING GROUND FOR RELAY R1 IS UNDER CONTROL OF THE BATTERY CUT OFF RELAY IN THE ALARM, TRANSFER AND TEST CIRCUIT AND ON NIGHT CONNECTION RELAY R1 WILL RELEASE TO SILENCE THE CONSOLE RINGER AND EXTINGUISH THE CONSOLE LAMP.

EQUIPMENT NOTES:

- 201. WHEN V OPTION IS NOT PROVIDED LEADS L1 AND L2 SHALL BE DISCONNECTED AT THE HOUSE BOX.
- 202. WHEN THE PBX USES A 1A2 KEY TELEPHONE SYSTEM EQUIPPED WITH 400B KEY TELEPHONE UNITS, THE TELEPHONE COMPANY SHALL FURNISH THREE 446F DIODES AND THE INSTALLER SHALL ADD OPTION G.

INFORMATION NOTES:

- 301. MODIFICATION OF IC PAD CONSISTS OF REMOVING THE STRAP BETWEEN TERMINALS 5 AND 6 AND WIRING IN CAPACITOR (A) IN SERIES WITH (PC) RELAY CONTACT AS SHOWN.
- 302. UNLESS OTHERWISE SPECIFIED: RESISTANCE VALUES ARE IN OHMS, CAPACITANCE VALUES IN MICROFARADS.
- 303. SEE SD-66920-01 PER ISSUE 16D FOR CONNECTION TO THE TRAFFIC MEASUREMENT SYSTEM REMOTE SCANNER.

TRANSMISSION TEST REQUIREMENTS (1000 CYCLE LOSS BETWEEN 6000 LINES)

MAX ALLOWABLE CIRCUIT LCSS (db)		
IC PAD AND	REP COIL	LOSS
89N RES	2C2A	4.6
89T RES	2C2A	5.6
89AA RES	2C2A	6.6
89AE RES	2C2A	7.6
89 TYPE RES PER D-164335	2C2A	4.6
NO PAD	2C2A	1.5

ALLOWABLE INDIVIDUAL APPARATUS LCSSSES (db)					
APPARATUS	DESIG	CODE	MAX LCSS	MIN LCSS	REMARKS
CAPACITOR	D,L	4.28-4.36	18.6	17.9	
REP COIL	A	2C2A	1.5	0.6	
PAD	PR	IC			SEE NOTE IC5

* INDICATES APPARATUS FOR WHICH IND LOSSES ARE NOT REQUIRED.

SUPERVISION AND TRIPPING

	(S) RELAY
MAX EXT CKT LOOP RES	2000
MIN INS RES	10,000

WORKING LIMITS

(RT) RELAY	
SILENT INTERVAL	RINGING INTERVAL
1400	2,000
10,000	10,000

RINGING

MAX EXT CKT LOOP RES WHEN: CONNECTING CIRCUIT RINGS DIRECT, THRU REPEATING COIL, OR THRU BY-PASSING CAPACITORS

RINGING SOURCE VOLTAGE	
95 VOLTS	75 VOLTS
8300	7500
13,000	10,000

TIE TRUNK CIRCUIT SD-65756-01-D1

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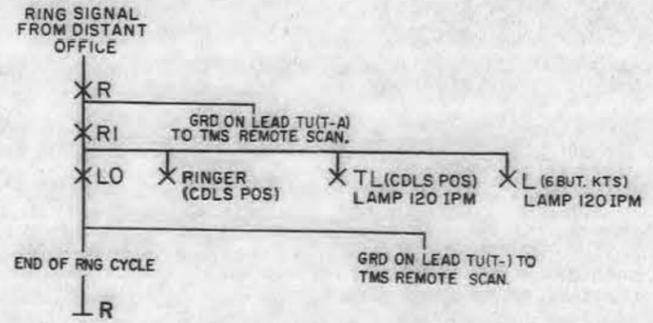
DRAWING ISSUE	
1	
2D	
3D	
4B	
5B	
6B	
7D	

ISSUE 10D

DRAWING
ISSUE
1
7D
RPR
PJS
LDJ

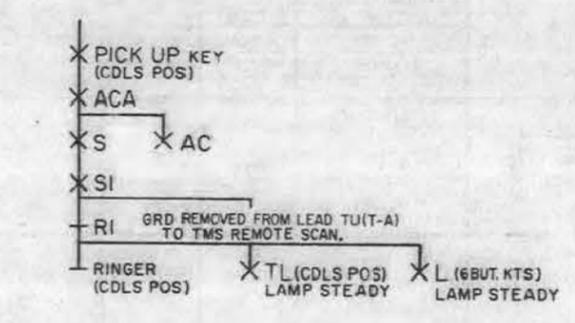
SC 1

TRUNK SEIZED FOR INCOMING CALL



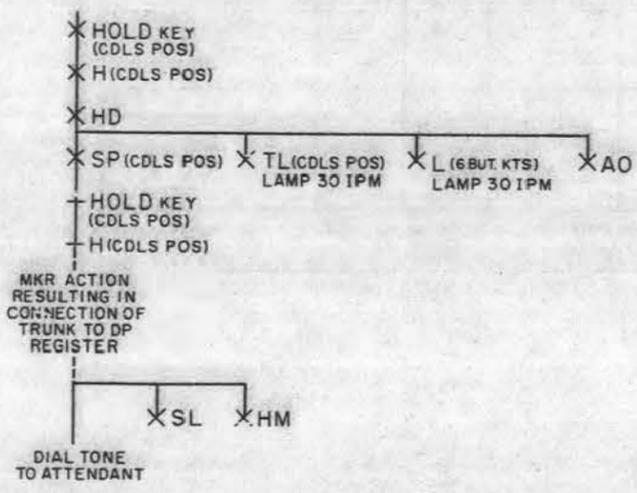
SC 2

ATTENDANT ANSWERS INCOMING CALL



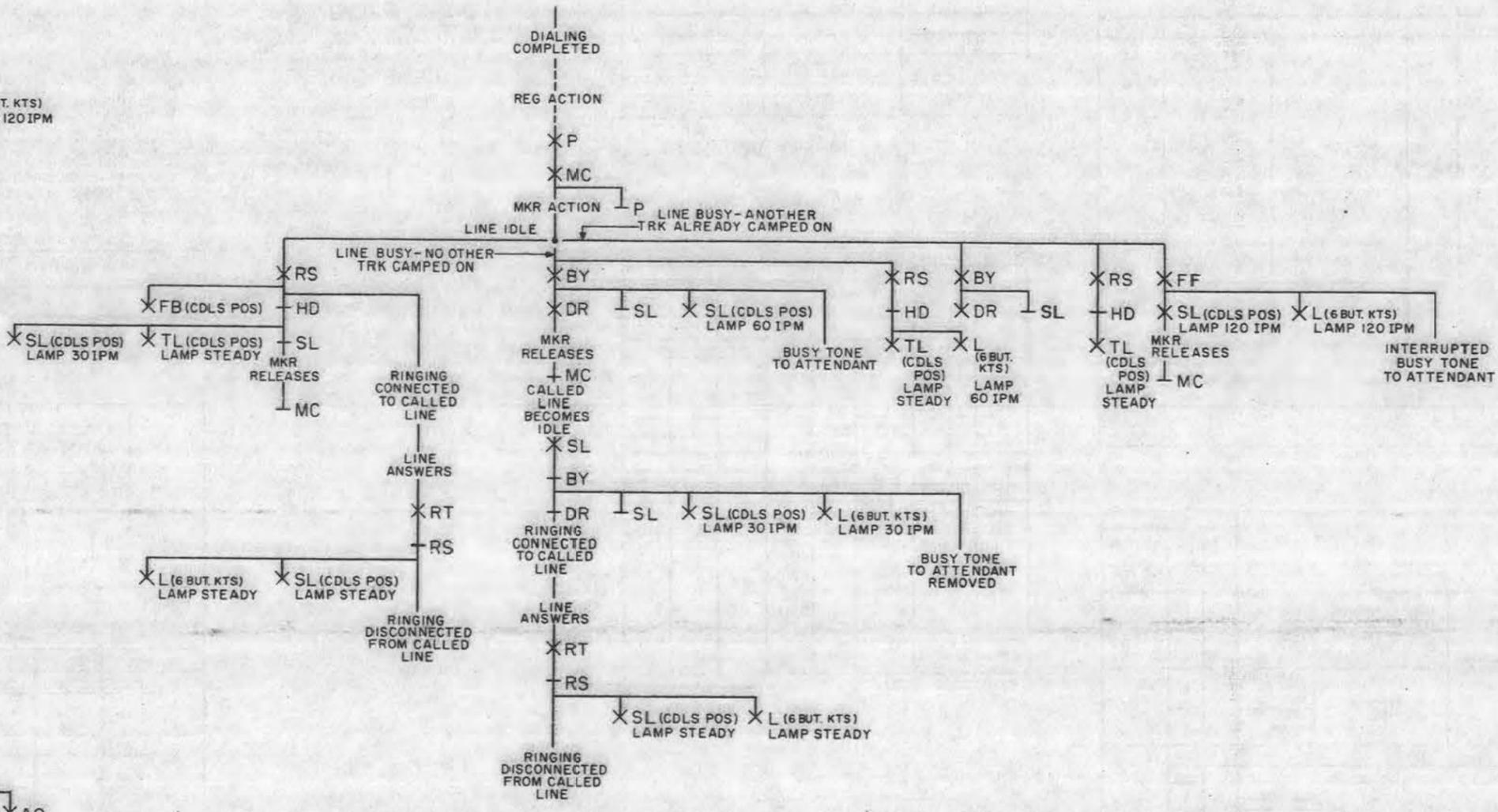
SC 3

ATTENDANT STEERS INWARD FOR PBX DIAL TONE



SC 4

COMPLETING INCOMING CALL TO A STATION LINE



SHEET NOTES:
1. SC4 ASSUMES THAT ATTENDANT REMAINS
IN ON CONNECTION.

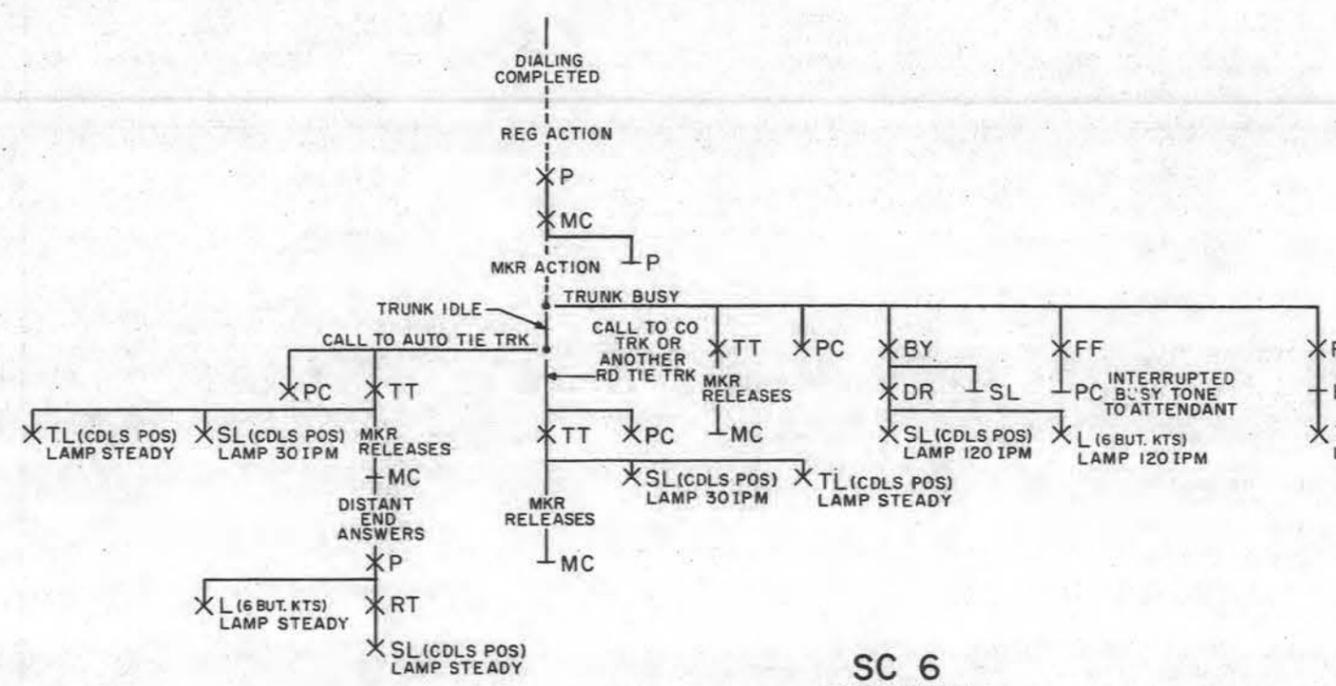
ISSUE
8D

TIE TRUNK CIRCUIT		SD-65756-01-E1
BELL TELEPHONE LABORATORIES INCORPORATED		6S

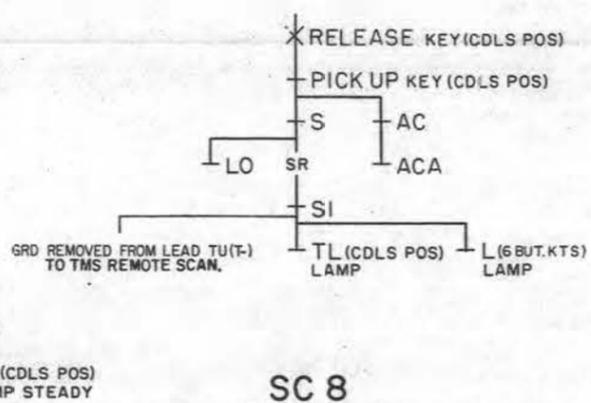
SD-65756-01-E1

DRAWING
ISSUE
68
7D
LDA

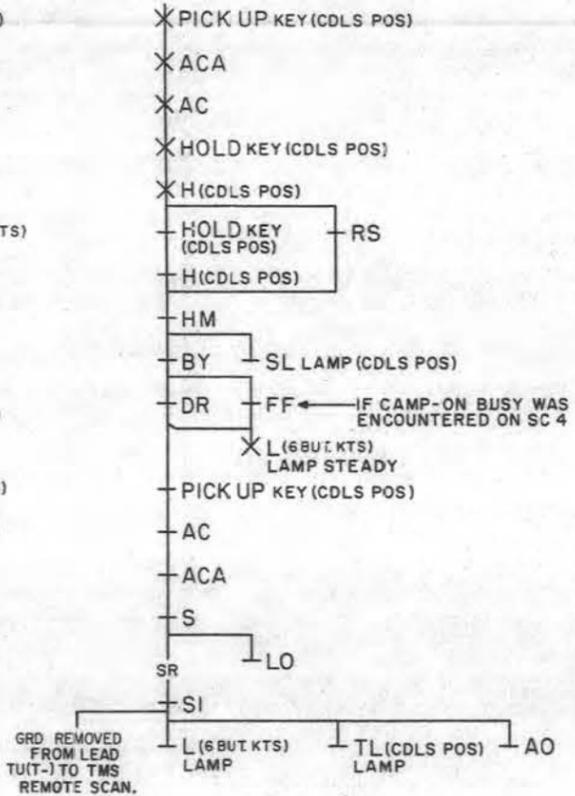
SC 5
COMPLETING INCOMING CALL TO A TRUNK



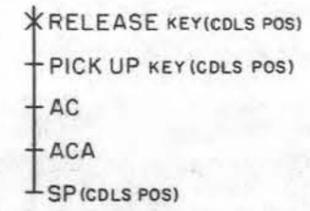
SC 7
ATTENDANT DISCONNECTS FROM TRUNK
AFTER ANSWERING INCOMING CALL (SC 2)
OR AFTER ORIGINATING OUTGOING CALL (SC 6)



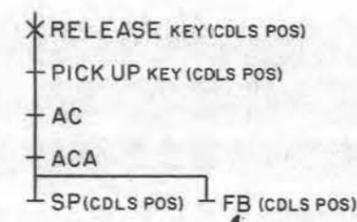
SC 10
ATTENDANT RE-ENTERS CONNECTION TO
RELEASE FROM A BUSY LINE (SC 4 AND SC 9)



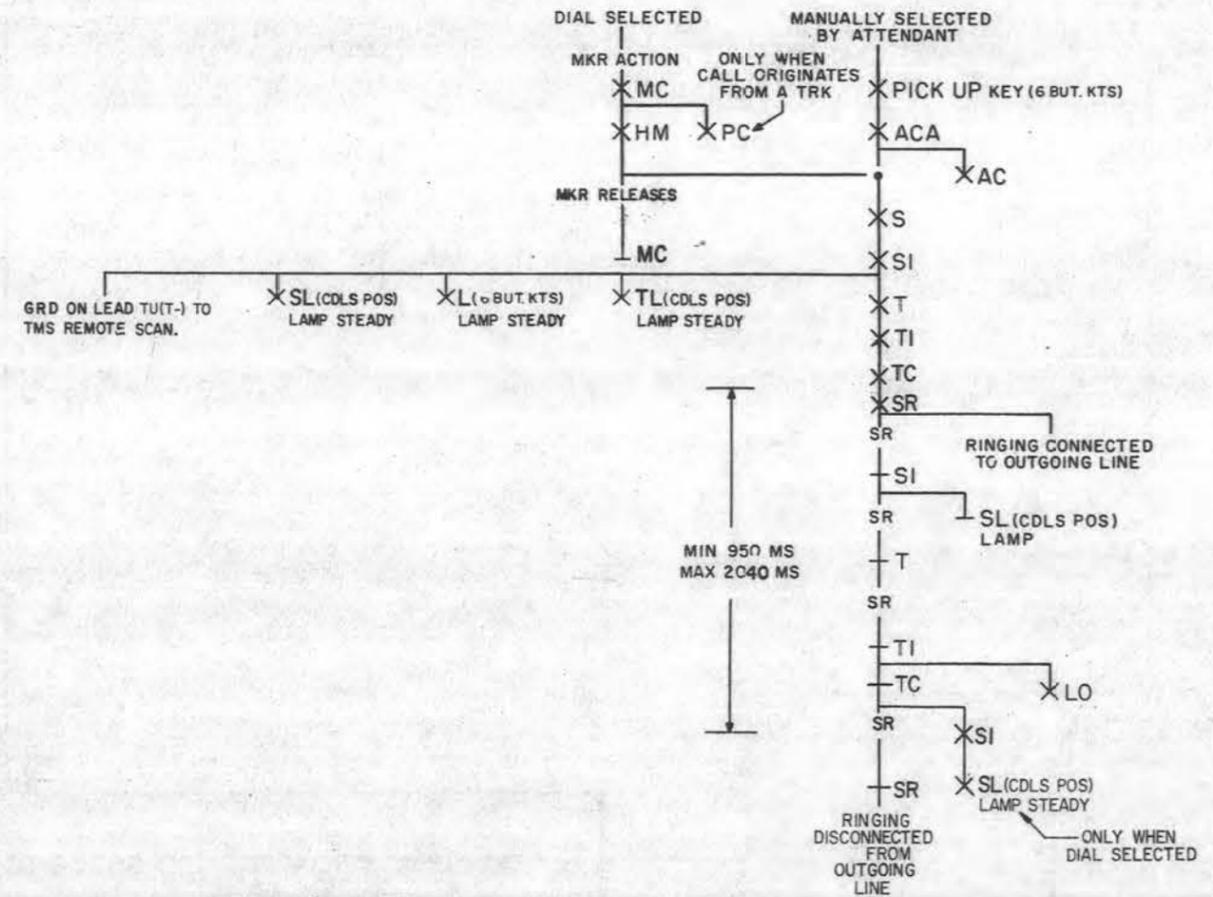
SC 8
ATTENDANT DISCONNECTS FROM TRUNK
AFTER STEERING INWARD FOR DIAL TONE (SC 3)



SC 9
ATTENDANT DISCONNECTS FROM TRUNK
AFTER DIALING A STATION OR TRUNK (SC 4 OR SC 5)



SC 6
OUTGOING CALL



SHEET NOTES:
1. SC5 ASSUMES THAT ATTENDANT REMAINS
IN ON CONNECTION.

ISSUE
8D

TIE TRUNK CIRCUIT SD-65756-01-E2
BELL TELEPHONE LABORATORIES INCORPORATED 6S

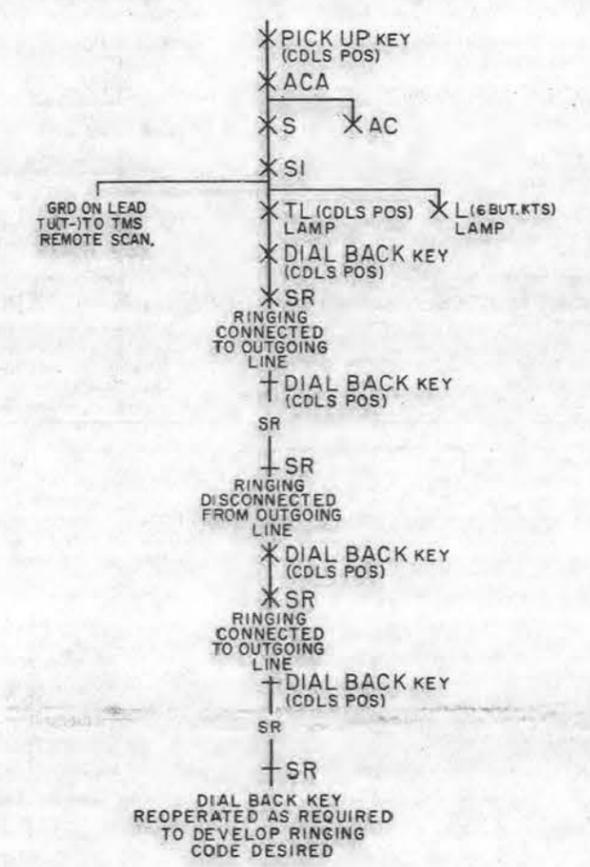
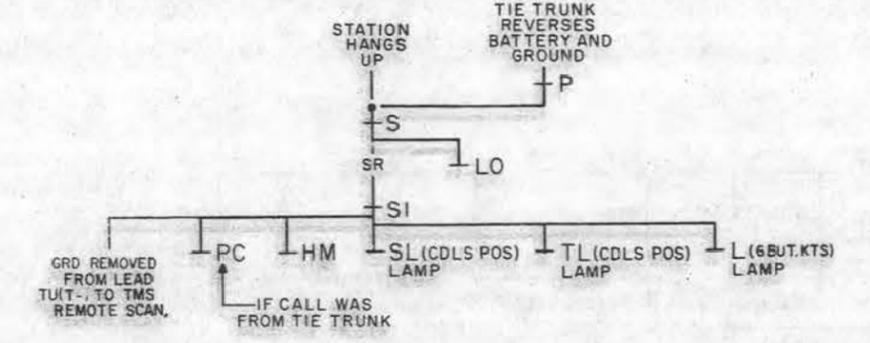
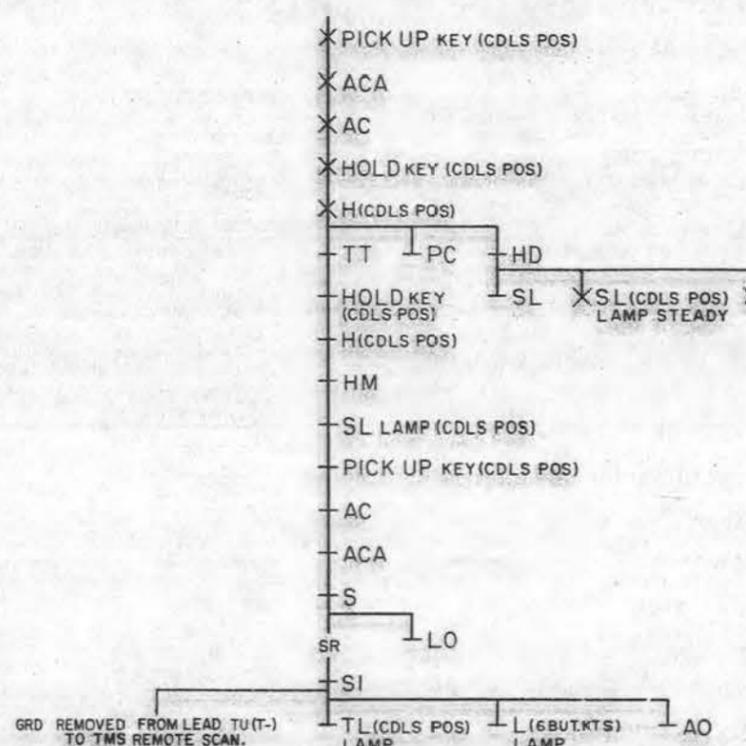
SD-65756-01-E2

DRAWING	7
ISSUE	6B
DATE	7D
BY	
CHKD	
APP'D	

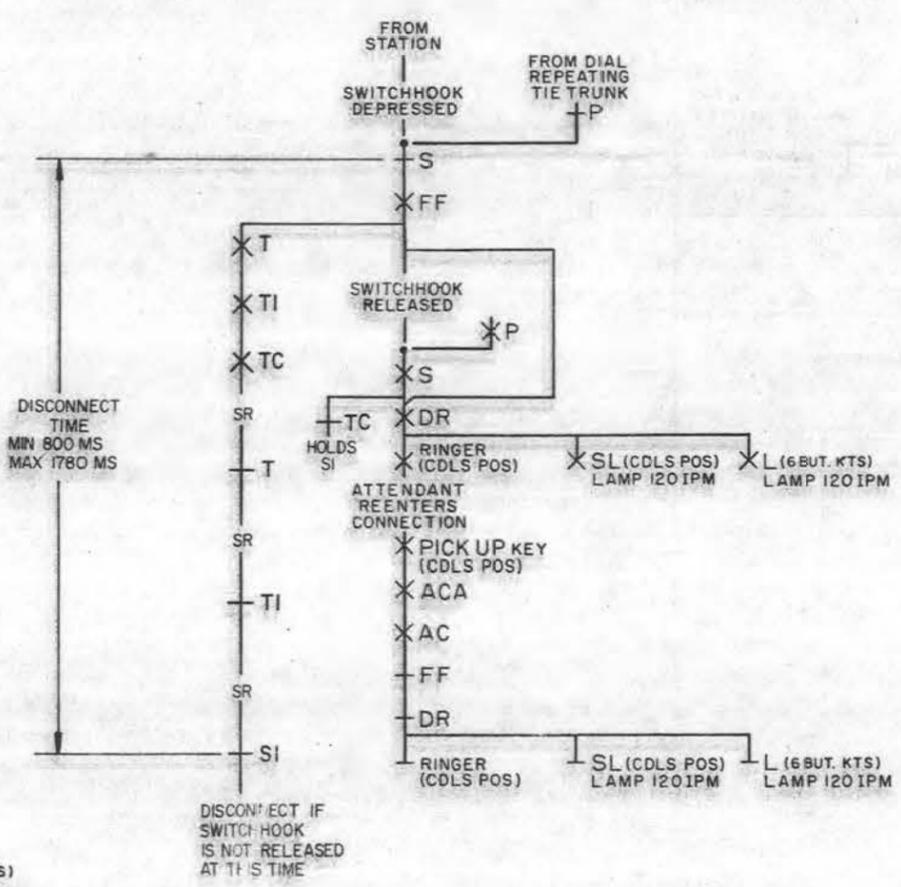
SC 11
ATTENDANT REENTERS TO RELEASE TRUNK FROM CONNECTION TO CENTRAL OFFICE TRUNK OR ANOTHER RINGDOWN TIE TRUNK (SC 5 AND SC 9)

SC 13
CALLING STATION OR DIAL REPEATING TYPE TIE TRUNK DISCONNECTS FROM OUTGOING CALL (SC 6)

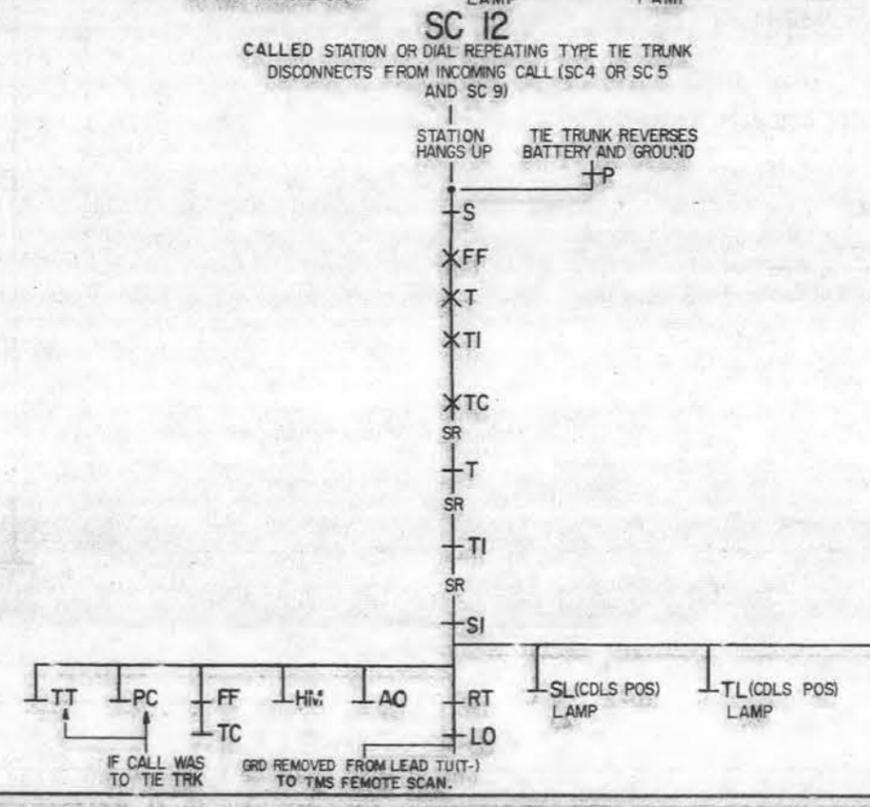
SC 15
CODE RINGING OUTGOING - V OPTION



SC 14
RECALL OF ATTENDANT FROM CALLED STATION (SC 4 AND SC 9) OR DIAL REPEATING TYPE TIE TRUNK (SC 5 AND SC 9)



SC 12
CALLED STATION OR DIAL REPEATING TYPE TIE TRUNK DISCONNECTS FROM INCOMING CALL (SC 4 OR SC 5 AND SC 9)



SD-65756-01-E3

ISSUE 8D

TIE TRUNK CIRCUIT

SD-65756-01-E3

BELL TELEPHONE LABORATORIES
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CIRCUIT REQUIREMENTS															DRAWING ISSUE				
NO. 756A TIE TRUNK CIRCUIT (1 TRK OG MA & D SEL INC RD)															1				
APPARATUS		MECH REQ			CIRCUIT PREPARATION				DIRECT CURRENT FLOW REPT						REMARKS		6		
DESIG	CODE	OPTION	FIG	REP FIG	CONT PRESS	ARM TRVL	BLOCK OR INSULATE	TEST CLIP DATA		TEST SET PREP	SEE TEST NOTE	TEST WDG	TEST FOR	AFTER SOAK	TEST MA	TEST MA	REARJ MA		
				CONN BAT	CONN SRD			CONN BAT	CONN SRD					MA	MA	MA			
RELAY																			
AC	AF13B		I	256				U(AC)	GRD					O	8.3	7.9			
								U(AC)	GRD					H	4.8	4.5			
ACA	AJ202		I	500			(AC)NO	U(ACA)	GRD					O	46.5	40.5			
AO	1/2 AK4		I	202				2U(AO)	GRD					O	11.9	11.3			MOUNTED WITH (PC)
BY	AG33		I	308B				U(BY)	GRD					O	FS	14.7	14		
								U(BY)	GRD					H	FS	2.5	2.3		
								U(BY)	GRD					R	FS	1.3	1.5		
DR	1/2 AK8		I	204				1U(DR)	GRD					O	9.2	8.7			MOUNTED WITH (RI)
FF	AJ15		I	249				U(FF)	GRD					O	42.5	40.5			
HD	AJ15		I	249				U(HD)	GRD	I				O	42.5	40.5			
HM	AF100		I	252			6(HM)	U(HM)	GRD					O	43.5	39.5			
LD	1/2 AK9		I	6				1U(LO)	GRD					O	7.7	7.3			MOUNTED WITH (SL)
MC	AJ56		I	413			4(MC)	U(MC)	GRD	2				O	57.5	54.5			
P	1/2 AK7	H	I	203			(AO)O	2U(P)	GRD					O	26.8	25.5			WDG ALONE & WDG WITH VARISTOR SHUNT MOUNTED WITH (TC)
							(AO)O	2U(P)	GRD					NO	10.4	11			
P	AJ28	J	I	257				2L(P)	2U(P)	B/G	S	O		O	12.4	11.8			
								2L(P)	2U(P)	B/G	S	R		O	1.9	2			WDG ALONE & WDG WITH VARISTOR SHUNT
							(AC)O	1L(P)	1U(P)	B/G	P	O		O	23.5	22			
							(AC)O	1L(P)	1U(P)	B/G	P	NO		O	11.1	11.6			
PC	1/2 AK4		I	202				2L(PC)	GRD					O	11.9	11.3			MOUNTED WITH (AQ)
R	BB15		I	3	30			1N(R)	1N(R)	B/G	S	O	AC	O	8.8	8.4			
											S	NO		O	3.4	3.6			
RI	1/2 AK8		I	204				1L(RI)	GRD					O	17	16			MOUNTED WITH (DR)
RS	AJ3		I	226				U(RS)	GRD					O	18	17			
RT	AJ58		I	308			7(MC)	1L(RT)	1U(RT)	B/G	S	P	O	O	28	25.5			
							7(MC)	1L(RT)	1U(RT)	B/G	P	O		O	29.5	28			
							7(MC)	1L(RT)	1U(RT)	B/G	P	NO		O	20	21.5			
								2U(RT)	GRD		S	O		O	19				
S	AJ26		I	55B	L			1L(S)	2L(S)	M	3	P/S	O	O	17.5	15.5			
								1L(S)	2L(S)	M		P-S	R	O	6.5	6.8			
SI	AG34		I	307B				U(SI)	GRD					O	FS	18	17		
								U(SI)	GRD					H	FS	3	2.8		
								U(SI)	GRD					R	FS	1.5	1.8		
SL	1/2 AK9		I	6				2L(SL)	1L(SL)	B/G				O	25.5	24			MOUNTED WITH (LO)
								2L(SL)	1L(SL)	B/G				NO	11.8	12.5			
SR	AG34		I	307B				U(SR)	GRD					O	FS	18	17		
								U(SR)	GRD					H	FS	3	2.8		
								U(SR)	GRD					R	FS	1.5	1.8		

TEST NOTES:

- CONTACTS 58 AND 88 SHALL BOTH CLOSE BEFORE EITHER CONTACT 54 OR 84 OPEN WHEN (HD) RELAY RELEASES.
- CONTACTS 98 AND 88 SHALL BOTH CLOSE BEFORE EITHER CONTACT 94 OR 84 OPEN WHEN (MC) RELAY RELEASES.
- ARMATURE BACK TENSION TEST MIN 15 GRAMS, REARJ MIN 20 GRAMS.
- TEST FOR OPERATE BY RINGING FROM DISTANT PSX OR BY APPLYING 80V MIN, 111V MAX, 1100-1200 RPM RINGING CURRENT THRU A 13C RESISTANCE LAMP AND 80000 ± 15 OHM INDUCTIVE RESISTOR TO TERMINAL 5 OF REP COIL (A) AND RINGING GROUND TO TERMINAL 2 OF REP COIL (A) WITHOUT "H" OR "X" OPTION.
- ONLY 58 CONTACTS NEED MAKE ON PRIMARY 26.5 MA OPERATE TEST.

TIE TRUNK CIRCUIT

SD-65756-01-F1

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(2 PAGES) PAGE 1

CIRCUIT REQUIREMENTS															DRAWING ISSUE				
NO. 756A TIE TRUNK CIRCUIT (1 TRK OG MA & D SEL INC RD)															6				
APPARATUS		MECH REQ			CIRCUIT PREPARATION				DIRECT CURRENT FLOW REPT						REMARKS		6		
DESIG	CODE	OPTION	FIG	REP FIG	CONT PRESS	ARM TRVL	BLOCK OR INSULATE	TEST CLIP DATA		TEST SET PREP	SEE TEST NOTE	TEST WDG	TEST FOR	AFTER SOAK	TEST MA	TEST MA	REARJ MA		
				CONN BAT	CONN SRD			CONN BAT	CONN SRD					MA	MA	MA			
T	AG24		I	188	L			U(T)	GRD					O	13.7	13			
								U(T)	GRD					H	1.6	1.5			
								U(T)	GRD					R	0.7	1			
TC	1/2 AK 7	H	I	203				1L(TC)	GRD					O	26.8	25.5			MOUNTED WITH (P)
								1L(TC)	GRD					NO	10.4	11			
TI	AG24		I	188	L			U(TI)	GRD					O	13.7	13			
								U(TI)	GRD					H	1.6	1.5			
								U(TI)	GRD					R	0.7	1			
TT	AJ12		I	220				U(TT)	GRD					O	42.5	40.5			

TIE TRUNK CIRCUIT

SD-65756-01-F1

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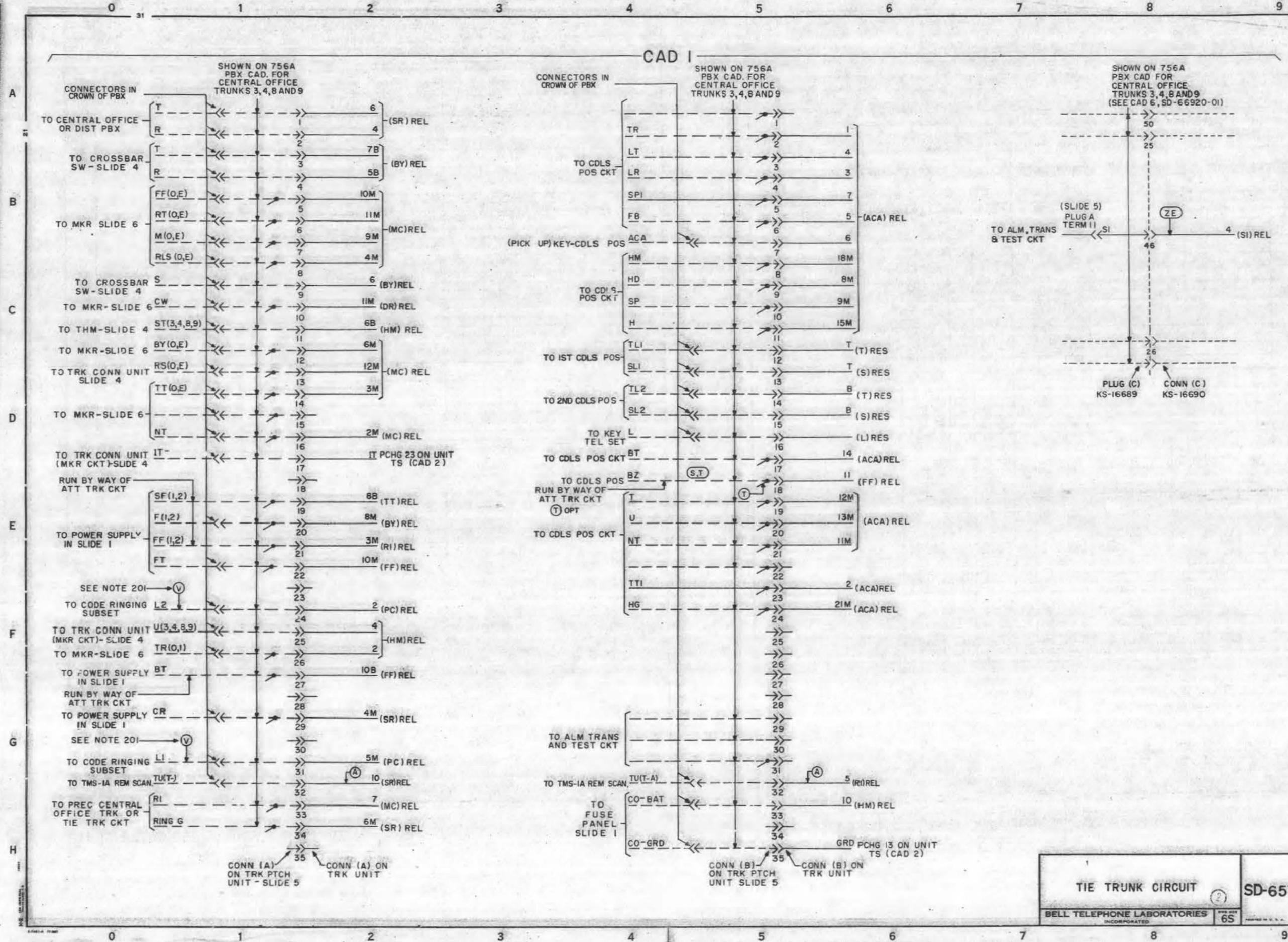
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(2 PAGES) PAGE 2

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DRAWING	
1	ISSUE
2D	REV
3D	REV
6B	REV
7D	REV

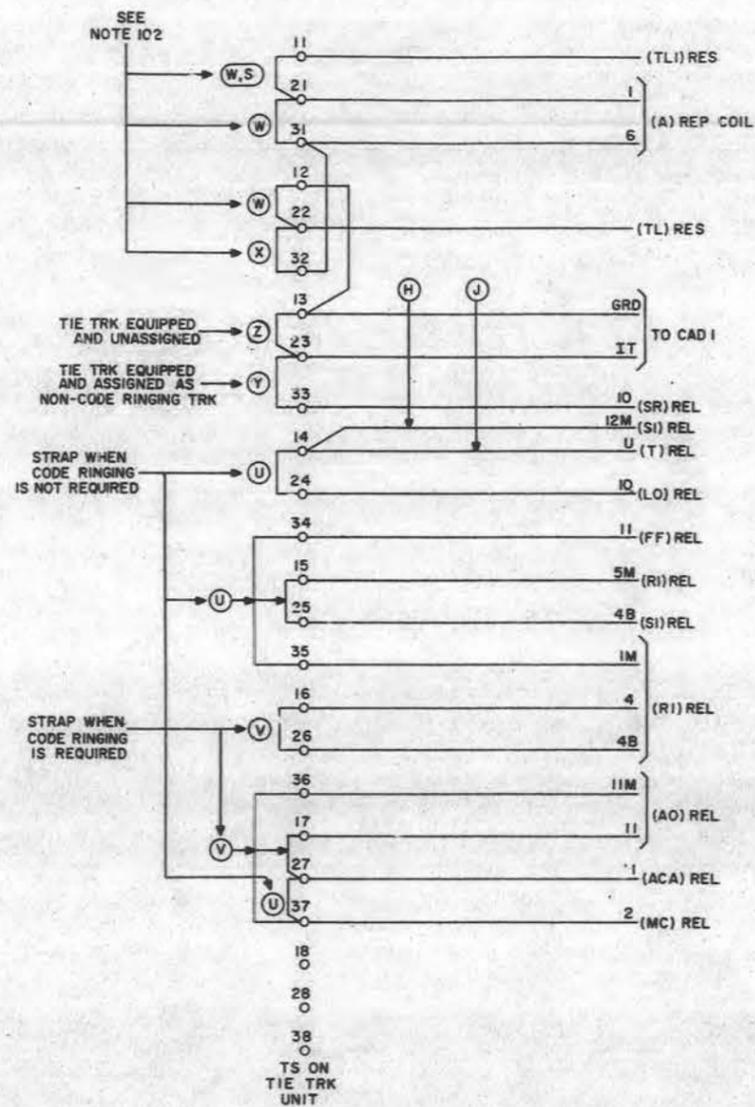


TIE TRUNK CIRCUIT	SD-65756-01-G1
BELL TELEPHONE LABORATORIES INCORPORATED	65

ISSUE
10D

CAD 2

RING DOWN TIE TRUNK OPTIONS



SD-65756-01-G2

100-100000-100000

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ISSUE
8D

TIE TRUNK CIRCUIT

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6S

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