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SD-65744-01	2	TRAFFIC REG	
SD-65745-01	6	DIAL CONF	
SD-65746-01	43	CABLING	L.D.I. 41-A, 41-B
SD-65747-01	8	LOUD SPKR	
SD-65750-01	7	JUNCTOR	
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SD-65753-01	15	ATT TRK	
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SD-66908-01	6	DIAL CONF	
SD-66909-01	4	DIAL TRANS CONT	
SD-66910-01	4	REM TRK ANS	
SD-66911-01	6	BUSY VERIF	
SD-66920-01	15	CABLING	
SD-66921-01	6	DIAL TRANS TRK	

CIRCUIT NO.	ISS	TITLE	FIG, OPT WRG
SD-81326-02	4	PWR BAT RSV	
SD-81328-01	5	LOW TONE	
SD-81329-01	6	20 ∿ SUPPLY	
SD-81577-01	10	AC-DC RING	
SD-81581-01	16	LOAD CAP	
SD-81600-01	7	PWR-BAT-LESS	
SD-81540-01	16	RECTIFIER	
SD-81920-01	2	-96V DC APLQ	
SD-5E003-01	2	IN RESTRICTION	
SD-5E021-01	5	STA MESS REG	
SD-5E029-01	4	MAKE BSY DISPL	
SD-5E037-01	2	VOLT RED DET	

ISS 27

MFG LAYOUT ISSUE 41
DATE COLLATED (WEEK ENDING) 6-21-69

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TABLE A

ITEM	RATING STD UNLESS SPECD	CIRCUIT SD	APP FIG OR FS	EQUIPMENT LOCATION INDEX: SLIDE	MTG PLT	UNIT NOMENCLATURE	J CODE	NOTE
1.		65741-01	1 & 17	2	L-Q	TIE TRUNK ADAPTER & LINE UNIT	58829H-( )	
2			2	3,	L-M	LINE UNIT		
3			3	-	-	CUT-OFF RELAYS		2
4			4	6	Z-AB	TENS SELECTION & PREF UNIT		
5			5	6	G-H	REGISTER CONTROL UNIT		
6			6	4	Z	TRUNK TENS CONNECTOR UNIT		
7			7	6	U-Y	UNITS SEL, LINE & TRK HUNTING 2 CTR REG & SEQUENCE CONTROL UNIT		
8			8	6	R-T	ROUTE CONTROL, CLASS OF SERVICE & DOWN CHECK UNIT		
9			9 22	6	~~L-Q~~ M-Q	LINK TEST, SELECT MAGNET & MISC CONT UNIT		
10			10	6	J,K	ADVANCE TIMEOUT & RELEASE & MARKER 2ND TRIAL REG CONTROL		
11			11	1	AA,AB	MARKER ALARM UNIT		
12			12	4	A-K,N-X	X-BAR SWITCH 6,7,8,0	58829E-( )	
13			13	3	A-K,N-S	X-BAR SWITCH 4,5,1	58829D-( )	
14			14	2	A-K	X-BAR SWITCH 2,3	58829C-( )	
15			15	3	V	SEL MAGNET CONN 4,5,1	58829H-( )	
16			16		AA	SEL MAGNET CONN 6,7,8,0		
17		65742-01	1,2,3,5, 6,7	6	A-F	DIAL PULSE REG 0,1	58829J-( )	
18		65744-01	1	1	W	FUSE PANEL, ALARM, TRAFFIC & TROUBLE REG UNIT	58829R-( )	
19	A&M ONLY	65745-01	1	2 3	Z,AA AA,AB	DIAL CONFERENCE UNIT	58829S-( )	1
20		65746-01	-	- -	-	CABLING DIAGRAM	--	6
21		65747-01	1	2 3	R-AA X-AB	LOUDSPEAKER PAGING TRUNK	58829W-( )	1
22		65750-01	1	3 4	T,U Y	JCTR CKTS 0,1,2 & 5 JCTR-CKTS 3,4	58829P-( ) 58829P-( )	
23		65752-01	1,2,5	5	A-H,K-U,W,X,AB	C. O. TRUNK	58829M-( )	15,19
24		65753-01	1	5	Y-AA	ATTENDANT'S TRUNK	58829N-( )	
25		65754-01	1	4	AA	BUSY TONE TRUNK	58829H-( )	
26		65755-01	1	2 3	R-AA X-AB	TIE TRUNK	58824AT-( )	1
27		65756-01	1	5	G,H,K,L,T,U,W,X	TIE TRUNK PLUG-IN TYPE	58829T-( )	1
28		65757-01	1 3,5,8	5 5	V J	POSITION CIRCUIT	58829L-( )	
29		66796-01	1	2	L	TIE TRK ADAPTER & LINE	58829H-( )	3
30			2	5	J	POS CIRCUIT	58829L-( )	3
31			3	1	AA,AB	MARKER ALARM	58829H-( )	3
32 33			4	1	X-Z ~~W-Z~~	FUSE PANEL, ALARM, TRAFFIC & TRBL REG UNIT(SEE TABLE B)	58829R-( )	3
34	MFR DISC	81288-01	1,2	1	B	INTERRUPTER	86464C-( )	4,26
35	MFR DISC	81318-01	1	1	J-R	RECTIFIER	86281A-( )	4,26
36	MFR DISC	81325-01	1	1	C F	RINGING & TONE SUPPLY	86464D-( )	4,26

TABLE A (CONT)

ITEM	RATING STD UNLESS SPECD	CIRCUIT SD	APP FIG OR FS	EQUIPMENT LOCATION INDEX: SLIDE	MTG PLT	UNIT NOMENCLATURE	J CODE	NOTE
37	MFR DISC	81326-01	1,5,7,8	1	B-R	POWER PLANT INTERCONNECTIONS	86464A-( )	4,26
38			2	-	-	TRANSISTOR R & T SUPPLY	86464B-( )	5
39			3	-	-	48 VOLT SUPPLY	86464B-( )	5
40			4,6	1	G-H	CAPACITOR PANEL	86464E-( )	4,26
41		81328-01	1	-	-	LOW TONE SUPPLY	86464G-( )	527
42		81329-01	1	-	-	20∿ SUPPLY	86464H-( )	527
43		81330-01	1	-	-	60∿ SUPPLY	86464J-( )	5
44	MFR DISC	81331-01	1	-	-	TRANSFER & ALARM	86464F-( )	5
45		81564-01	1	1	J-R	RECTIFIER	87205B-( )	4,23
46		81577-01	1,2,6	1	C-F	AC-DC RINGING SUPPLY	86812B-( )	4
47		81581-01	4	1	G,H	LOAD CAP PANEL	86808G-( )	4
48	A&M ONLY	81599-01	1,2	1	C-F	+48V, DC, +10V AC APPLIQUE	86464K-( )	4,26
49		81600-01	1,2,3 4	1	C-R	AC-DC RINGING SUPPLY	86464L-( )	4
50		65742-01	4	6	G-H	REGISTER CONTROL UNIT	58829H-( )	
51			8			TOUCH TONE TRANSLATOR	58829AC-( )	1,14,20
52		65942-01	1			DSS AUX REG LINE	58829AA-( )	1,14
53			2-5			DSS AUX REG LINE	58829AB-( )	1,14
54		67027-01	1	1	U,V	TOUCH-TONE RCVR	58844A-( )	1,20
55		66902-01	1	2	Y-AB X-AA	DIAL CONF TRK UNIT STA CONT	58829AD-( )	1,16,17
56		66908-01	1	2	Y-AB X-AA	DIAL CONF TRK UNIT ATT CONT	58829AE-( )	1,16,17
57		65752-01	2			AUX C. O. TRK	58829AF-( )	1,14
58		66909-01 66921-01	1 1			STA DIAL TRANS	58829AG-( )	1,14
59		66910-01	1			AUX POSITION CIRCUIT	58829AH-( )	1,14
60		66911-01	1	4	AB	BUSY VERIF. AUX TRK UNIT	58829AJ-( )	1,18
61		65752-01 65757-01	6 13	5	AB	IND CAMP-ON C.O. TRK	58829AK-( )	
62	A&M ONLY	81719-01	1,2,3	1	A	DIAL TONE GEN. (404C) FOR PBX TOUCH-TONE CALLING	86464A-( )	20
63		81719-01	1,2,3	1	A	"	86464L-( )	20
64		65746-01				PREWIRED CABLE TERMINAL SECTION	58829AM-( )	1,21
65		5E003-01	1	—	——	INWARD RESTRICTION UNIT	58829AL-( )	1,14
66		5E010-01	1	—	——	EXTERNAL TRAFFIC REGISTERS	58857A-( )	1,14
67		65741-01	3	—	——	LINE CUTOFF UNIT	58829AR-( )	14,22
68			19,20,21	—	——	PAD CONTROL APPLIQUE	58829AS-( )	1,14
69		5E021-01	1,2,3,4	—	——	STATION MESSAGE REGISTER	58829AP-( )	1,14
70		5E029-01	1	2	AB	MAKE BUSY- BUSY DISPLAY	58829AN-( )	24
71		81920-01	1	1	E,F	-96V DC APPLIQUE	86464P-( )	25
72		81326-02	1,3,4,5,6,	—	——	PWR SUPPLY FOR BATTERY RESERVE	86464M-( )	27
73			2	—	——	60∿ INVERTER, INTERRUPTER	86464N-( )	27
						+48V, -96V & 10V AC SUPPLY		
74		81540-01	1	——	——	RECTIFIER	87211A-( )	27
75		81719-01	1,2,3			DIAL TONE GEN. (404C) FOR PBX TOUCH-TONE CALLING	86464M-( )	27

H1 K2 L6 N8

ORIGINAL ISSUE 2-22-63
SH 3,4 & 5 RENUMBERED FROM 2,3 & 4. SH 2 ADDED. IN TABLE A ITEMS 34 THRU 63, NOTES 16 THRU 20 & TABLE B ADDED. SH 3,4 & 5 CHGD ACCORD.
A.T. & T. CO. CL: D
W.E. CO. CL: DD
3-10-65 ADG — 3

TABLE A ITEM 69 ADDED, NOTE 21 ADDED.
NDD58829CG-1 A.T.&T. CO. CL: D
3-23-66 W.E. CO. CL: DD
C.A.B. — 4

IN TABLE A ITEMS 65 & 66 ADDED
NDD58829CG-3 A.T.&T. CO. CL: D
10-4-66 W.E. CO. CL: D
R.S.U. — 5

IN TABLE A ITEMS 67,68 & NOTE 22 ADDED.
NDD58829CG-4 A.T.&T. CO. CL: D
4-7-67 W.E. CO. CL: DD
R.S.U. BT — 6

IN TABLE A, ITEM 69 & TABLE B, FUSE DESIG A0 TO A9 ADDED.
NDD58829CG-12 A.T.&T. CO. CL: D
6-28-67 W.E. CO. CL: DD
A.C.M. BT — 7

ITEMS 34 TO 40, 43 TO 45, 48, 62 RATING WAS STD ITEMS TO TO 75 & NOTES 23 TO 27 ADDED. "MBD" FUSE DESIG ADDED ON TBL B.
NDD58829CG-16
A.T. & T. CO CL: D
4-5-68 W. E. CO. CL: DD
J.P. — BT — 8

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5	6	8									

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PBX SYSTEMS
NO. 756A
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AND INDEX

A.T. & T. CO. RATING
A.T. & T. CO. STANDARD
W.E. CO. RATING
STANDARD

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WESTERN ELECTRIC COMPANY, INC. 65

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TABLE B — SLIDE & MTG PLT INFO ASSOC WITH J58829R-2 FUSE PANEL

FUSE DESIG	FUSE POS / PLT	ASSOC SLIDE/PLT	FUSE DESIG	FUSE POS/PLT	ASSOC SLIDE/PLT
A	7B Y	6AB	M	23B Y	1AA 6AA
ATO	7B Z	4N 5Y	N	23T Y	6Z
AT1	7T Z	4T 5Z	P	24B Y	6Z
AT2	8B Z	4T 5AA	Q	24T Y	1AA 6J
AP1	7T Y	5V	R	25B Y	6AB
AP2	8B Y	SBD 5J	RA0	25T Y	6C
B	8T Y	6AB	RA1	26B Y	6F
BT	9B Y	4AA	RB0	26T Y	4T 6C
C	9T Y	6Z	RB1	27B Y	3N 6F
C00	8T Z	4T 5B	RC0	27T Y	6C
C01	9B Z	4T 5D	RC1	28B Y	6F
C02	9T Z	4T 5F	S	28T Y	3V 6Q
C03	10B Z	4T 5J	S0	12B Y	2F 4T
C04	10T Z	4T 5J	S1	12T Y	2F 4T
C05	11B Z	4N 5N	S23	13B Y	2G 4U
C06	11T Z	4N 5Q	S45	13T Y	2H 4V
C07	12B Z	4N 5S	S67	14B Y	2J 4W
C08	12T Z	4N 5V	S89	14T Y	2K 4X
C09	13B Z	4N 5V	SB	17B Z	SBD
D	10B Y	6Z	SC	17T Z	SBD
E	10T Y	6Y	SD	18B Z	SBD
F	11B Y	6X	SE	18T Z	SBD
FA	13T Z	2L 5J	SF	19B Z	SBD
FC1	15B Y	1B	SG	19T Z	SBD
FC2	15T Y	1B	T	17B Y	1AB
FT	16B Y	1W 6S	T0	17T Y	4AA 6AB
G	16T Y	2L 6T	T1	18B Y	4AA 6AA
H	21B Y	2L 6C	T80	23B Z	2N
J	21T Y	6R	T81	23T Z	2N
JT0	14B Z	3T	T82	24B Z	2N
JT1	14T Z	3T	T83	24T Z	2N
JT2	15B Z	3U	T84	25B Z	2N
JT3	15T Z	4Y	T85	25T Z	2P 3V
JT4	16B Z	4Y	T86	26B Z	2P 3V
JT5	16T Z	3U	T87	26T Z	2P 3V
K	22B Y	6R	T88	27B Z	2P 3V
L	22T Y	1AA 6AA	T89	27T Z	2P 3V
L2	20B Z	2P 6Z	TR	18T Y	1W
L3	20T Z	2L 6Z	UA	19B Y	6V
L4	21B Z	3L 6Z	UB	19T Y	6V
L5	21T Z	3L 6Z	X	20T Y	6U
L6	22B Z	4L 6Z	Y	20B Y	6U
L7	22T Z	4L 6Z	IR	6T Y	EXTERNAL
TTA	6T Z	1A	DSS	28T,B Z	EXTERNAL
TTB	6B Z	1A	Z	6B Y	EXTERNAL
A0	2T Z	EXTERNAL	MBD	1T Z	2 AB
A1	3T Z	EXTERNAL			
A2	4T Z	EXTERNAL			
A3	5T Z	EXTERNAL			
A4	2B Z	EXTERNAL			
A5	3B Z	EXTERNAL			
A6	4B Z	EXTERNAL			
A7	5B Z	EXTERNAL			
A8	3T Y	EXTERNAL			
A9	3B Y	EXTERNAL			

NOTES:

1. OPTIONAL EQUIPMENT
2. MOUNTED IN MANUAL PBX SECTION, WHEN PROVIDED.
3. SD-65743-01 IS RATED M.D. & REPLACED BY SD-66796-01.
4. COMMERICAL AC SERVICE - NO BATTERY RESERVE.
5. EQUIPMENT REQUIRED FOR BATTERY RESERVE OPERATION, LOCATED IN BATTERY MODULE, MD J58829U-( ), IN ADDITION TO STANDARD COMMERICAL AC SERVICE.
6. INTER-SLIDE WIRING & CONNECTIONS ON TERMINAL STRIPS ARE SHOWN ON SD-65746-01.
7. LINE CIRCUITS 20-29 MAY BE USED FOR CONNECTING TIE TRUNKS TO THE PBX. IN THIS CASE THE CIRCUITS ARE NUMBERED 80-89.
8. WHEN FIRST TRUNK OR CONFERENCE UNIT IS INSTALLED, STRAPPING ON DP REG TERMINAL STRIP IN SLIDE 6, MUST BE CHANGED. SEE CAD 6.
9. CABLING DIAGRAMS FOR TIE TRKS & CONF UNITS ARE SHOWN ON THEIR ASSOCIATED "SD" DRAWINGS.
10. WHEN A CONF UNIT IS INSTALLED, USE MTG PLT POS ~~AB-Y~~ AA-X AS REQD TO MINIMIZE THE EFFECT OF INDUCTION FROM POWER EQUIPMENT.
11. WHEN TIE TRKS ARE INSTALLED IN SLIDE 3, OPTIONAL STRAPPING ON TIE TRK ADAPTER TERMINAL STRIPS IN SLIDE 2 MUST BE ADDED OR REMOVED AS REQUIRED.
12. WHEN PLUG-IN RD TIE TRK UNITS ARE INSTALLED, CHANGE STRAPPING ON TRK HUNTING TERMINAL STRIP ON SLIDE 4 (SEE CAD 7) & DIAL PULSE REG TERM STRIP ON SLIDE 6 (SEE CAD 5).
13. CABINET & SLIDE EQUIPMENT CODES ARE AS FOLLOWS:
    J58830A-( )- SUMMARIZING SPECIFICATION
    J58829A-( )- EQUIPMENT & PLUG-IN CABLES
    J58829B-( )- #1 SLIDE
    J58829C-( )- #2 SLIDE
    J58829D-( )- #3 SLIDE
    J58829E-( )- #4 SLIDE
    J58829F-( )- #5 SLIDE
    J58829G-( )- #6 SLIDE
14. MOUNTED EXTERNAL TO PBX AS DIRECTED BY TEL CO
15. SD-65752-01 FIG 5 SHALL BE INSTALLER WIRED & MOUNTED AS DIRECTED BY TEL CO
16. WHEN CONFERENCE UNIT (STA CONT OR ATT CONT) IS INSTALLED, OPTIONAL STRAPPING ON THE TIE TRUNK ADAPTER TERMINAL STRIP IN SLIDE 2 MUST BE ADDED OR REMOVED AS REQUIRED.
17. ONE KS-16785 L-4 PLUG AT REAR WIRING SIDE OF SLIDE 2, PLATE POS "Y""X"WILL FACILITATE THE INSTALLATION OF THE DIAL CONF TRK UNIT (STA OR ATT CONTROLLED)
18. ONE KS-16785 L-4 PLUG AT REAR WIRING SIDE OF SLIDE 4, PLATE POS "AB" WILL FACILITATE THE INSTALLATION OF THE BUSY VERIFICATION UNIT. THIS PLUG SHALL BE FITTED WITH A KS-16786 L-4 CONN STRAPPED PER SD-66920-01-CAD 2 WHEN BUSY VERIFICATION UNIT IS NOT REQUIRED.
19. ONE KS-16689 L-3 PLUG AT REAR WIRING SIDE OF SLIDE 5 PLATES G,K,T, & W WILL FACILITATE THE INSTALLATION OF PLUG-IN C.O. TRUNKS.
20. WHEN PROVIDING TOUCH-TONE CALLING ON EXISTING PBX'S THE 404C TONE GEN MUST ALSO BE PROVIDED, SEE SD-65746-01 ISS 23.
21. THE FRAMEWORK IS DESIGNED TO ATTACH TO EITHER END OF A 756A PBX THAT IS EQUIPPED WITH SLIDE-OFF CROWN COVERS. TEL.CO TO DETERMINE WHICH END TO BE EQUIPPED.
22. TO BE PROVIDED ONLY WHEN 608 SWBD IS REQUIRED WITH PBX.
23. J87205B( ) RECTIFIER IS RATED "MFR DISC" REPLACED WITH KS-19642 RECTIFIER.
24. BUSY DISPLAY STANDARD UNIT IS ALWAYS PROVIDED PER J58829A-LIST 52 OR 53 OR LATER. BUSY DISPLAY A&M VERSION (FOR FIELD MODIFICATION) SHALL BE MOUNTED ON SLIDE 2 AS NEAR TO THE TOP AS FEASIBLE.
25. ONE J86464P-( ) REQUIRED FOR MAKE BUSY-BUSY DISPLAY MOUNTED ON J86464L FOR BATTERYLESS AND ON J86464A (MD) AND J86464M FOR BATTERY RESERVE.
26. EQUIPMENT REQUIRED FOR BATTERY RESERVE OPERATION LOCATED ON SLIDE 1 OF LEFT MODULE.
27. EQUIPMENT REQUIRED FOR BATTERY RESERVE OPERATION LOCATED IN BATTERY RESERVE MODULE PER J86464M-( ).

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ED-65895-10

PBX SYSTEMS
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WESTERN ELECTRIC COMPANY, INC. — DWG SIZE 6S

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HW-5606-PSA (6-81 EXP. BL.

ED - 65895-10

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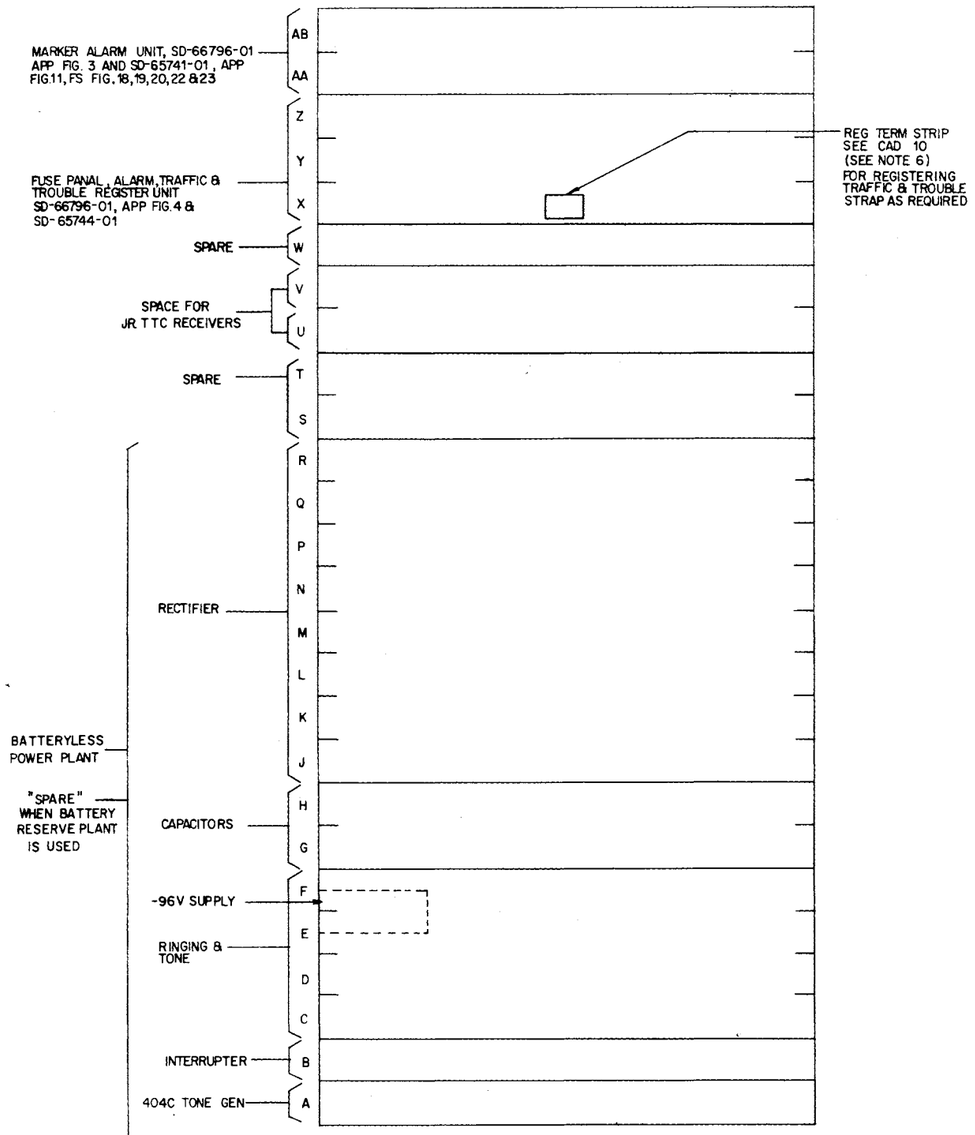
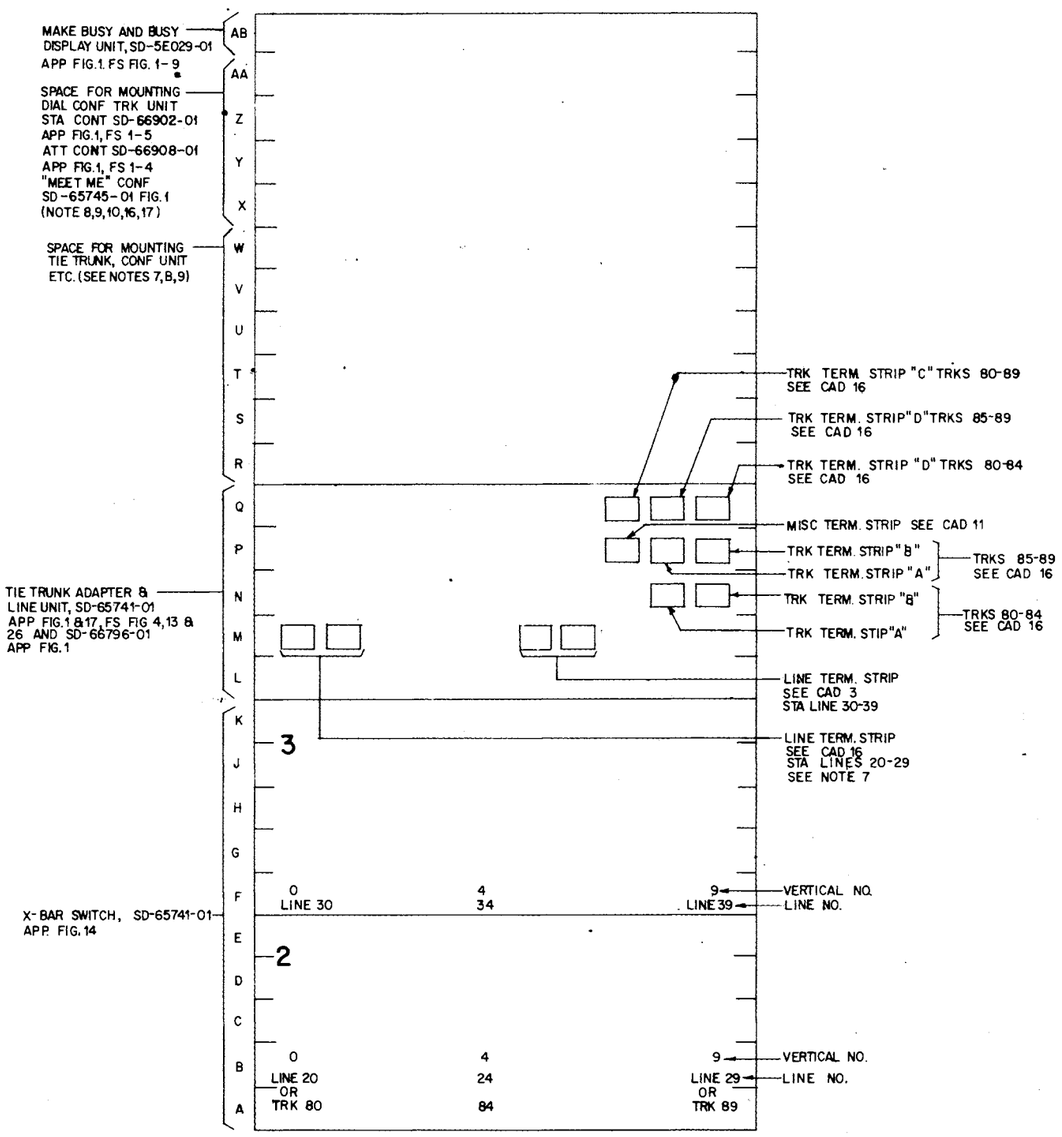


SLIDE 1



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WESTERN ELECTRIC COMPANY, INC. DWG SIZE 65	5 SHEETS, SHEET 3

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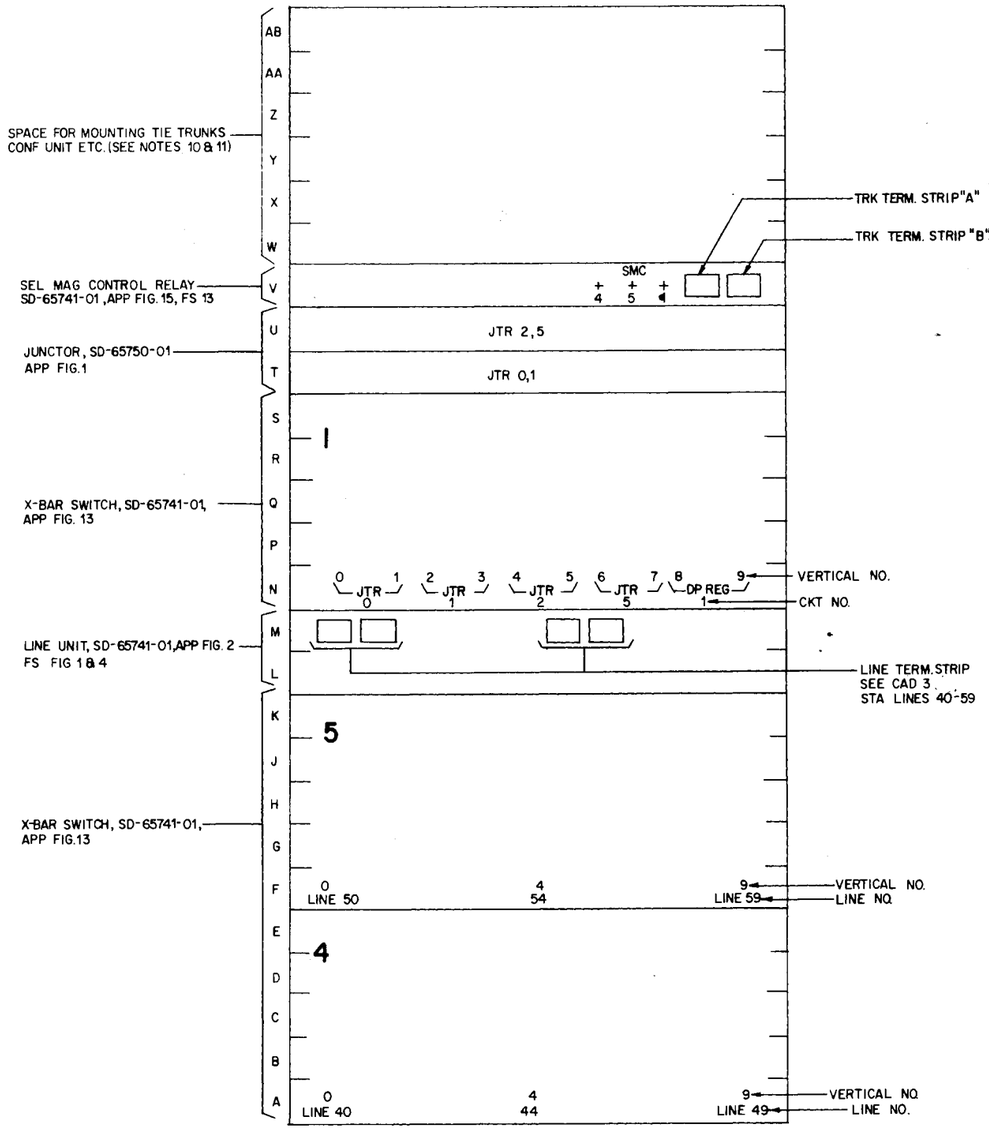

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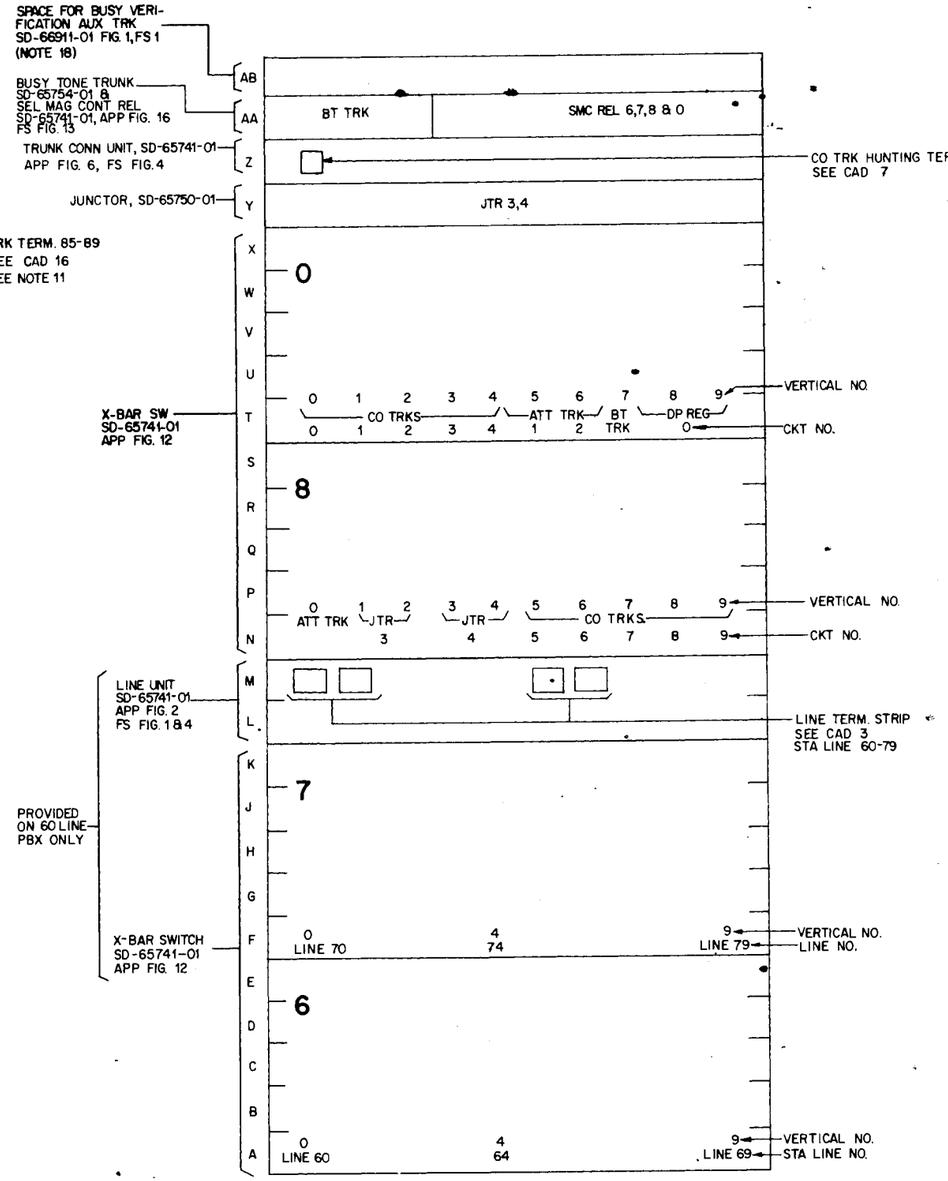

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WESTERN ELECTRIC COMPANY, INC.	DWG SIZE 65	5 SHEETS, SHEET 4

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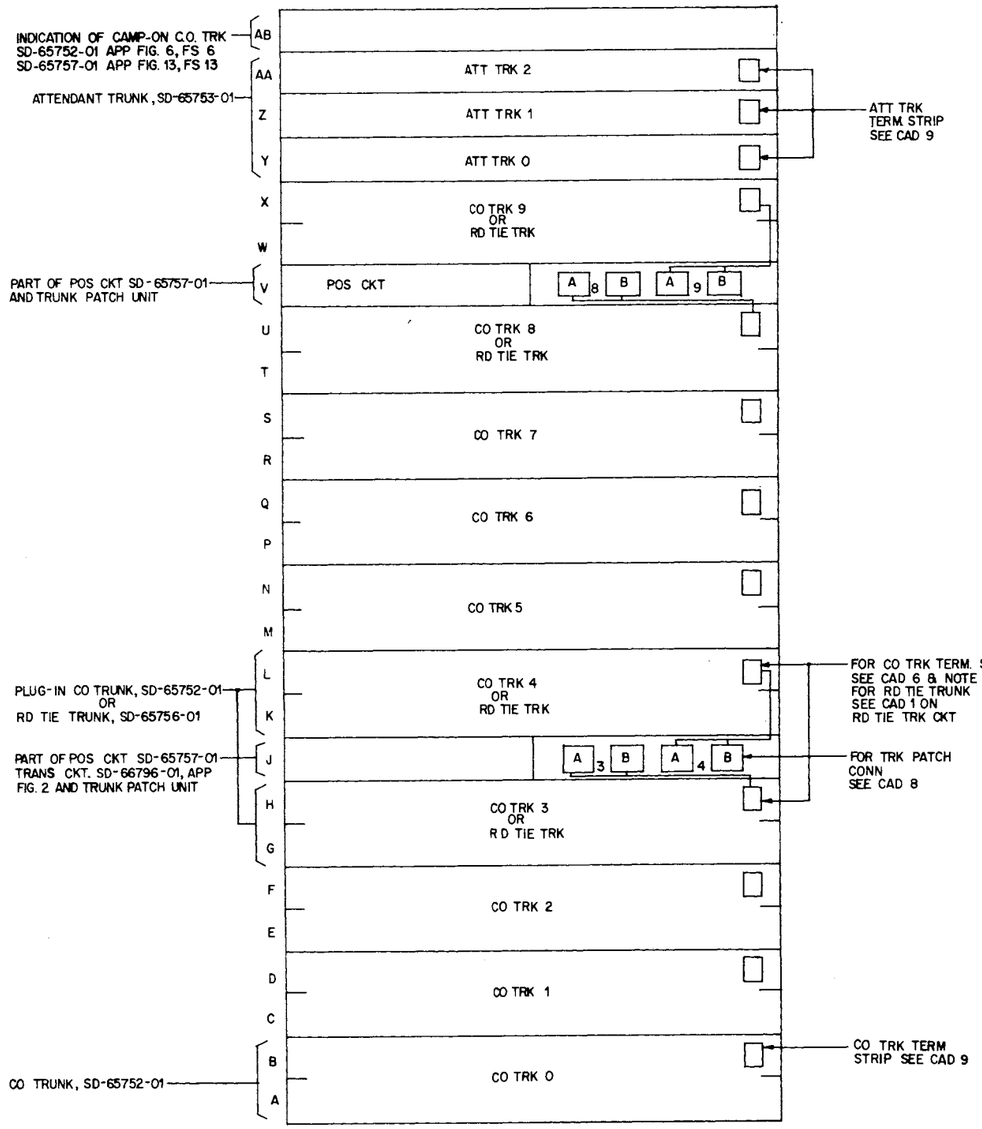
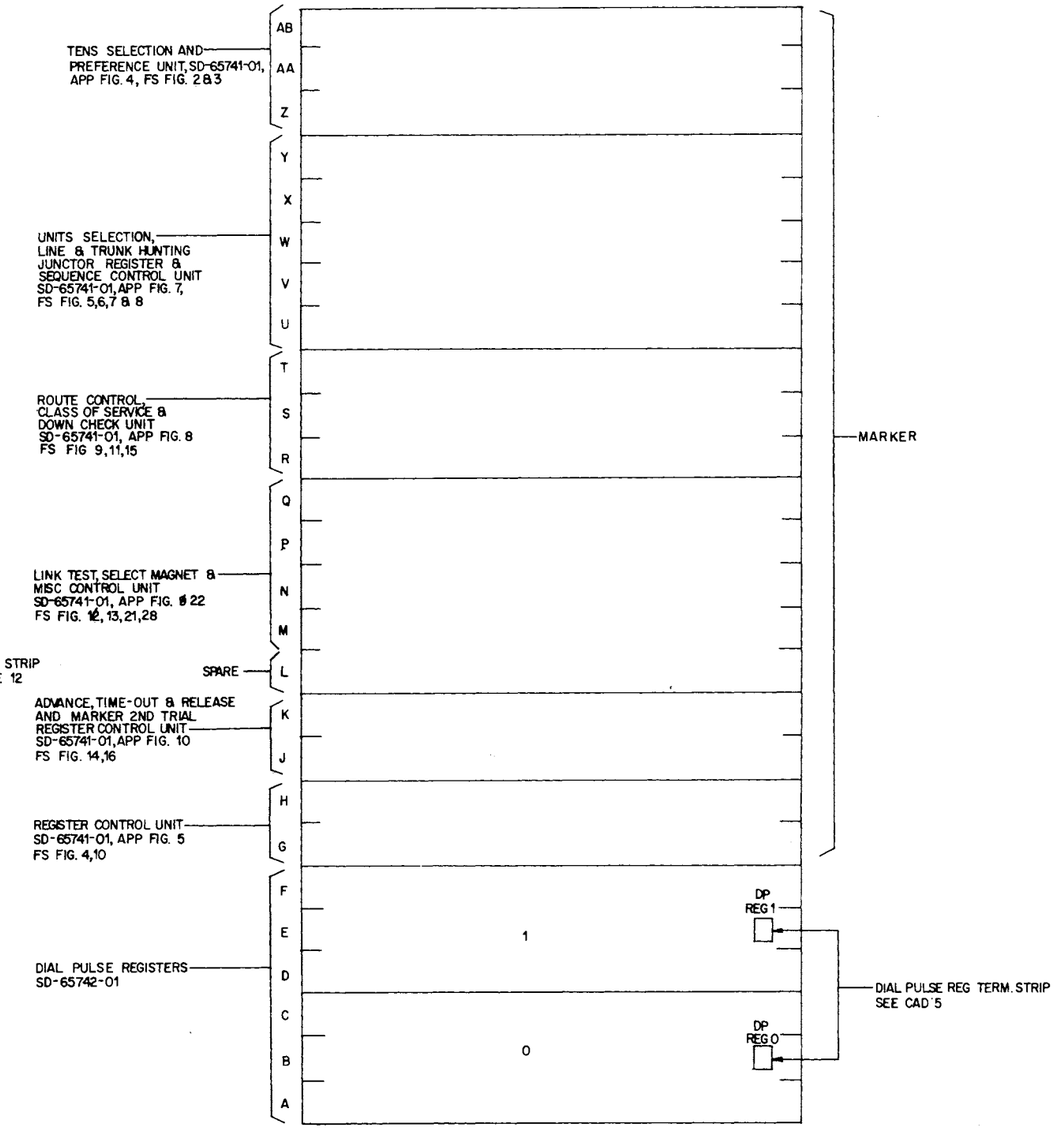


SLIDE 5



SLIDE 6

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WESTERN ELECTRIC COMPANY, INC.	DWG SIZE 65	5 SHEETS, SHEET 5

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BELL TELEPHONE LABORATORIES, INCORPORATED

E-8460-1 (11-66)

PRODUCT AFFECTED/TITLE

LINE, LINK, AND MARKER CIRCUIT

SYSTEM: PBX

LDI ISSUE 38A SEP 10 1968

CODE OR DOCUMENT IDENTIFICATION: SD-65741-01

APPARATUS ☐ EQUIPMENT ☐ CIRCUIT ☒ PROGRAM ☐

NEW ☐ CHANGE ☒

WECO ENGR CONTROL LOC: HW

REFERENCES

SHEET 1 OF 3

APPARATUS NEW CODE

☐ COMPLETE ☐ PARTIAL — BALANCE SCHEDULED FOR _____

PROBABLE DEMAND _____ ☐ REPLACES THE _____ WHICH SHALL BE RATED _____

☐ DOES NOT REPLACE OR REDUCE THE DEMAND FOR ANY PRODUCT

☐ DOES NOT REPLACE BUT REDUCES DEMAND FOR THE _____ BY _____

CUSTOMER: ☐ ASSOCIATE ☐ NON-ASSOCIATE

RATING: ☐ PROPOSED AT&TCO STD ☐ DISTRIBUTOR STD ☐ COMPONENT PART ☐ NOT YET STD BY AT&TCO ☐ OTHER _____

INITIAL USE:

APPARATUS CHANGE CHANGE CLASS _____

NEW AND OLD INTERCHANGEABLE ☐ YES ☐ NO

CHANGE IN LIST OF COMPONENT APPARATUS:

REPAIRED PRODUCT AFFECTED ☐ YES ☐ NO

APPARATUS GENERAL

TOOL MADE SAMPLES: QUANTITY REQUIRED _____ ☐ WILL BE RETAINED BY BTL ☐ WILL BE RETURNED TO APPLY ON ORDERS

PRODUCT ☐ MAY BE ☐ SHALL NOT BE SHIPPED PRIOR TO TOOL-MADE SAMPLE APPROVAL

ASSOCIATED SD DWG ☐ AFFECTED ☐ NOT AFFECTED SD _____ SCHED. FOR ISS. _____

EQUIPMENT

CHANGE CLASS _____

AT&TCO RATING _____

ASSOCIATED CIRCUIT SCHEMATIC DWG _____ ISS _____

REPAIRED PRODUCT AFFECTED ☐ YES ☐ NO

CIRCUIT SCHEDULED FOR DWG ISS 39B DATE _____

CHANGE CLASS B

ITEMS 1 PROJECT 756A EQUIPMENT CODES: J58829H

TYPE OF CHANGE CHARGE CASE _____

☐ ANALYZATION ☐ ENGR COMPLAINT

☐ BTL—NOT ON PROJECT ☒ WECO REQUEST

SERVICE AFFECTED ☐ YES ☒ NO

COORDINATING CIRCUITS: NONE

PROGRAM

CHANGE CLASS _____

GENERIC PROGRAM ISS _____

AT&TCO. RATING _____

EQUIPMENT CODES:

CHANGE/DESCRIPTION

THE FOLLOWING ITEM IS ADDED TO PREVENT A POSSIBLE RACE CONDITION IN THE LINE, LINK, AND MARKER CIRCUIT WHICH CAN RESULT IN THE PBX FAILING TO RETURN BUSY TONE THROUGH THE DIAL PULSE REGISTER CIRCUIT WHEN THE BUSY TONE TRUNK CIRCUIT IS BUSY.

THIS ITEM CORRECTS THE RACE CONDITION IN WHICH THE MARKER CIRCUIT SIGNALS THE REGISTER TO RELEASE BEFORE THE REGISTER CIRCUITRY HAS TIME TO RESPOND TO THE PREVIOUS MARKER SIGNAL TO HOLD AND RETURN BUSY TONE.

ITEM 1: OPTION VL IS DESIGNATED AND RATED MANUFACTURE DISCONTINUED. OPTION VM IS ADDED AND RATED STANDARD TO PREVENT THE MARKER FROM SIGNALING THE REGISTER TO RELEASE PROVIDED THE MARKER PREVIOUSLY SIGNALED THE REGISTER TO HOLD AND RETURN BUSY TONE.

ATTACHMENTS

NONE

ADDITIONAL DISTRIBUTION

NONE HISTORY COPY

REG | L

(TO BE COMPLETED BY WECO)

PRINCIPAL DWG ISSUE

ENGR _____ LOC _____ TEL _____ DATE _____

APPROVALS DEPT 5122 BTL CONTROL LOC WECO-HW

	DATE		DATE
CKT ENGR	9/9/68	CKT ENGR	
CKT ENGR	9/9/68	CKT SUPV	
CKT SUPV	9/9/68		
APP, EQUIP, OR PROG ENGR	9/9/68	LAB TESTS ☐ BEFORE CKT ISS ☐ DEFERRED ☒ NONE REQUIRED	
APP, EQUIP, OR PROG SUPV	DATE		

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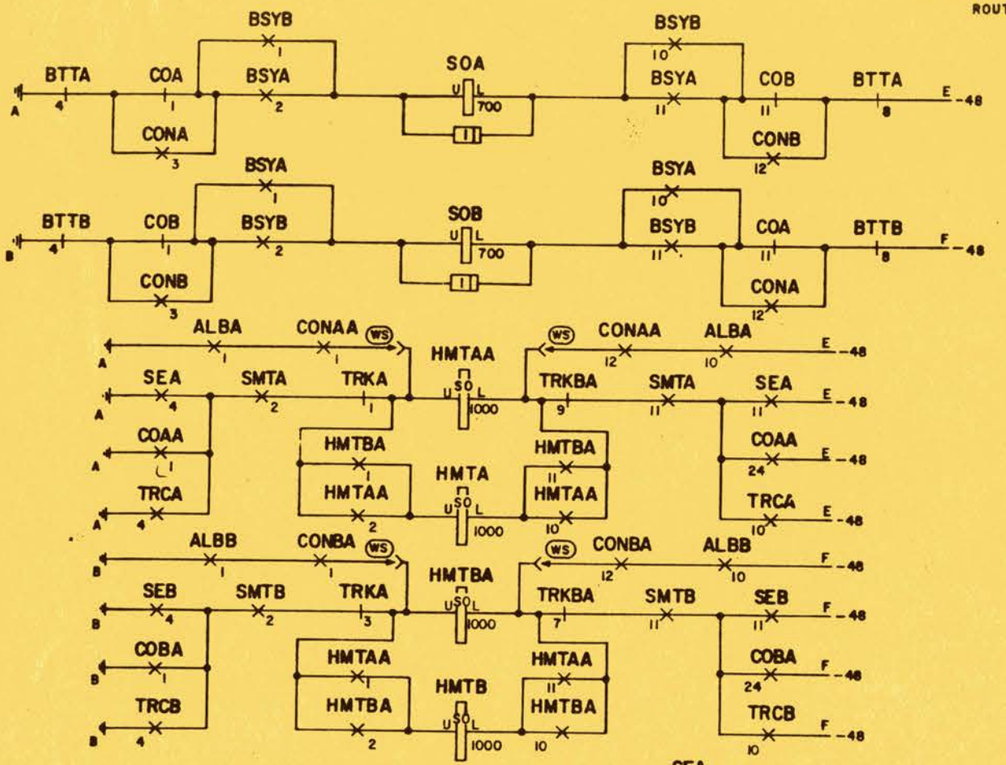
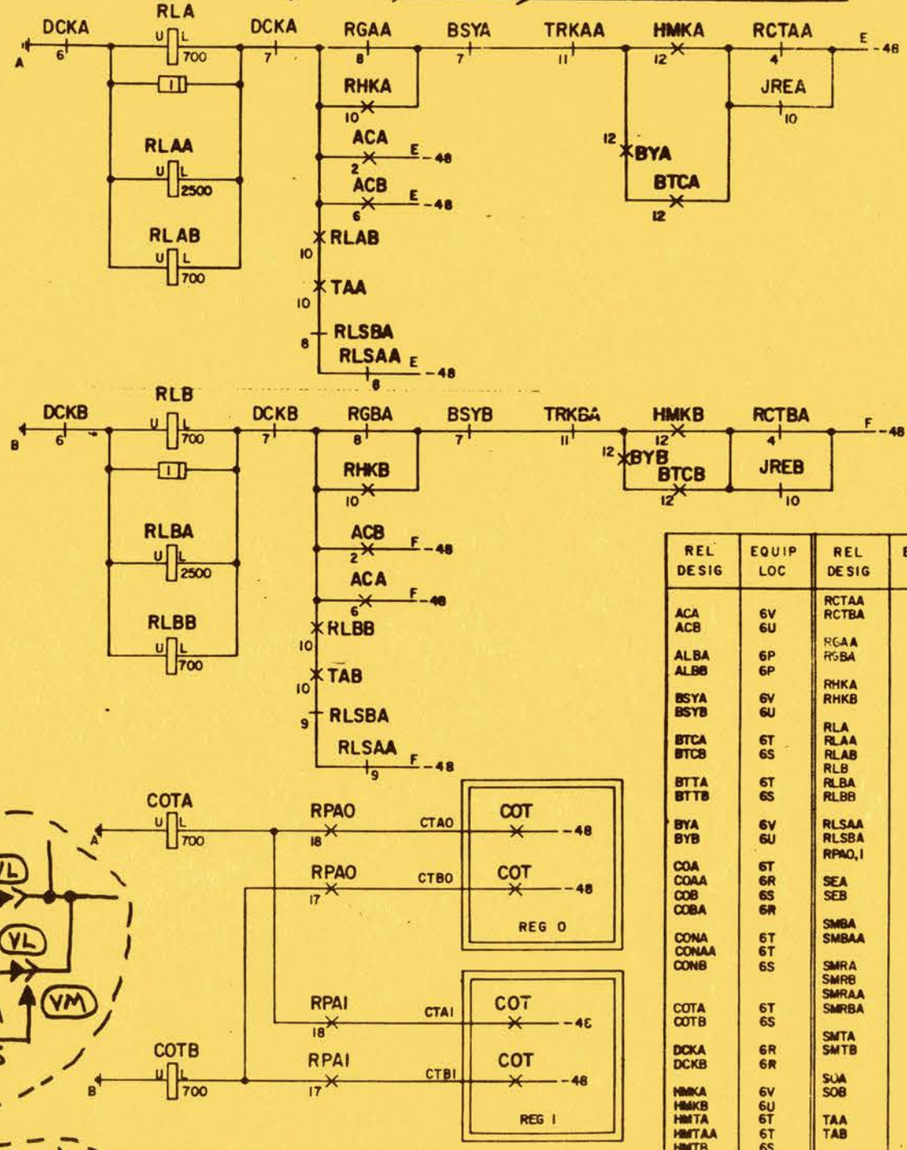
PART OF FS 9
ROUTE CONTROL

ENGINEER J. J. Marsh DATE 9/9/68
WITNESSED AND UNDERSTOOD BY
E. J. Buczkowski DATE 9/9/68





REL DESIG	EQUIP LOC	REL DESIG	EQUIP LOC
ACA	6V	RCTAA	6V
ACB	6U	RCTBA	6U
ALBA	6P	RGAA	6G
ALBB	6P	RGBA	6G
BSYA	6V	RHKA	6G
BSYB	6U	RHKB	6G
BTCA	6T	RLA	6T
BTCB	6S	RLAA	6T
BTTA	6T	RLAB	6T
BTTB	6S	RLB	6S
BYA	6V	RLBA	6S
BYB	6U	RLBB	6S
COA	6T	RLSAA	6K
COAA	6R	RLSBA	6J
COB	6S	RPAO,I	6W
COBA	6R	SEA	6V
CONA	6T	SEB	6U
CONAA	6T	SMBA	6T
CONB	6S	SMBAA	6T
COTA	6T	SMRA	6T
COTB	6S	SMRB	6S
DCKA	6R	SMRAA	6T
DCKB	6R	SMRBA	6S
HMKA	6V	SMTA	6Q
HMKB	6U	SMTB	6Q
HMTA	6T	SOA	6R
HMTAA	6T	SOB	6R
HMTB	6S	TAA	6K
HMTBA	6S	TAB	6J
JREA	6Y	TRCA	6Y
JREB	6X	TRCB	6X
JTAA	6Y	TRKA	6Y
JTBA	6X	TRKAA	6Y
		TRKB	6X
		TRKBA	6X

DRAWING ISSUE	
1	RC BM
2B	MCC FGS
3B	JD RD
4A	JD CHD
6A	PJS BAT

WORN DRAWING REPRODUCED WITHOUT CHANGE 1-13-67 JJR

33D	FED FJS RHP
36B	ROZ PJS LDJ

NY WS MB JFD RAC TEB AMP HW WHG

HISTORY COPY

SD-65741-01-B15

LDI 38A FOR ISSUE 39B
LINE, LINK, AND MARKER CIRCUIT
SHEET 2 OF 3 (2)
BELL TELEPHONE LABORATORIES INCORPORATED
SD-65741-01-B15
6S

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FS 10

REGISTER CONTROL

REL DESIG	EQUIP LOC
ACA	6V
ACB	6U
BTCA	6T
BTCB	6S
BYA	6V
BYB	6U
COA	6T
COB	6S
HMTA	6T
HMTAA	6T
HMTB	6S
HMTBA	6S
JREA	6Y
JREB	6X
RAOA	6G
RAOB	6G
RAIA	6G
RAIB	6G
RCAO	6H
RCAI	6H
RCTA	6Y
RCTB	6X
RGA	6G
RGAA	6G
RGBA	6G
RHKA	6G
RHKB	6G
RLSAA	6K
RLSBA	6J
RPAO	6W
RPAI	6W
RPO	6Z
RPI	6Z
SMTA	6Q
SMTB	6Q
TACAA	6Y
TACBA	6Y
TP2-7	6Z
TRCAA	6Y
TRCBA	6X

ENGINEER D. Marsh DATE 9/9/68

WITNESSED AND UNDERSTOOD BY

E.J. Buckwicz DATE 9/9/68

RHKA RHKB RHMO RHMI RBO RBI RAIB RAOB RAIB RAOB RGA RGB HMTA HMTB SMTA SMTB THM09 THM08 THM19 THM18 ZZ,YA 900 700 SR REG 0 REG 1 -48

RAOB RAIB RAOA RAIA ACA ACB ONGO ONBO ONO ONI ONGI ONBI STA STB ON RT REG 0 REG 1 2500 700 TACBA TACAA N P

TRCAA TRCBA TRCAA TRCBA COB COA RPO RPI SMOO SMIO SMOI SMII JREB JREA RCTA RCTB 28G2, 28G5 BYA BYB RLAB RLSAA RLBB RLSBA VM VL

RPAI RPAO RRAI RRBI RRAO RRBO BYI BYO BTCA BTCB BYA BYB TO REG I TO REG O

HMTAA HMTBA RCAO RVO RVI COT RV -48 REG 0 REG 1 RCAI HMTAA HMTBA

STA MR PULS & SUR CKT MR4 MR3 XK H

TACAA TACBA RGA RGAA RGB RGBA TP2-5 TP6,7 TRPO,1 TP2-7 700

DRAWING ISSUE	
1	
2B	
3B	
6A	
16B	
24D	
31D	
35D	

LDI 38A FOR ISSUE 39B

LINE, LINK, AND MARKER CIRCUIT

SHEET 3 OF 3 (2)

BELL TELEPHONE LABORATORIES INCORPORATED 6S

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SD-65741-01-B17

HISTORY COPY

SD-65741-01-B17

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BELL TELEPHONE LABORATORIES, INCORPORATED E-8460-1 · 1-65

PRODUCT AFFECTED/TITLE: LINE, LINK, AND MARKER CIRCUIT

SYSTEM: PBX

REFERENCES:

SHEET 1 OF 2

LDI ISSUE 38B DEC 16 1968

CODE OR DOCUMENT IDENTIFICATION: SD-65741-01

APPARATUS ☐ | EQUIPMENT ☐ | CIRCUIT ☒ | PROGRAM ☐

NEW ☐ | CHANGE ☒

WECO ENGR CONTROL LOC: HW

APPARATUS 'N' CODE

☐ COMPLETE ☐ PARTIAL – BALANCE SCHEDULED FOR _____

PROBABLE DEMAND _____ ☐ REPLACES THE _____ WHICH SHALL BE RATED _____

☐ DOES NOT REPLACE OR REDUCE THE DEMAND FOR ANY PRODUCT

☐ DOES NOT REPLACE BUT REDUCES DEMAND FOR THE _____ BY _____

CUSTOMER: ☐ ASSOCIATE ☐ NON-ASSOCIATE

RATING: ☐ PROPOSED AT&TCO STD ☐ DISTRIBUTOR STD ☐ COMPONENT PART ☐ NOT YET STD BY AT&TCO ☐ OTHER _____

INITIAL USE:

APPARATUS CHANGE CHANGE CLASS _____

NEW AND OLD INTERCHANGEABLE ☐ YES ☐ NO

CHANGE IN LIST OF COMPONENT APPARATUS:

REPAIRED PRODUCT AFFECTED ☐ YES ☐ NO

APPARATUS GENERAL

TOOL MADE SAMPLES: QUANTITY REQUIRED _____ ☐ WILL BE RETAINED BY BTL ☐ WILL BE RETURNED TO APPLY ON ORDERS

PRODUCT ☐ MAY BE ☐ SHALL NOT BE SHIPPED PRIOR TO TOOL-MADE SAMPLE APPROVAL

ASSOCIATED SD DWG ☐ AFFECTED ☐ NOT AFFECTED SD _____ SCHED FOR ISS _____

EQUIPMENT

CHANGE CLASS _____

AT&TCO RATING _____

ASSOCIATED CIRCUIT SCHEMATIC DWG _____ ISS _____

REPAIRED PRODUCT AFFECTED ☐ YES ☐ NO

CIRCUIT SCHEDULED FOR DWG ISS 39B DATE _____

CHANGE CLASS B

ITEMS 1 PROJECT 756A EQUIPMENT CODES: J58829H

TYPE OF CHANGE CHARGE CASE _____

☐ ANALYZATION ☐ ENGR COMPLAINT

☐ BTL—NOT ON PROJECT ☒ WECO REQUEST

SERVICE AFFECTED ☐ YES ☒ NO

COORDINATING CIRCUITS: NONE

PROGRAM

CHANGE CLASS _____

GENERIC PROGRAM ISS _____

AT&TCO RATING _____

EQUIPMENT CODES:

CHANGE/DESCRIPTION

THIS LDI IS ISSUED TO PROVIDE ADDITIONAL INFORMATION TO LDI 38A FOR ISSUE 39B OF SD-65741-01.

ON ISSUE 298 OF SD-65741-01, OPTION WD WAS ADDED TO PREVENT THE TROUBLE CONDITION MENTIONED ON LDI 38A. HOWEVER, THE ADDITION OF OPTION WD DID NOT COMPLETELY ELIMINATE THE TROUBLE. OPTION VM WAS ADDED ON LDI 38A TO GUARANTEE THE RETURN OF BUSY TONE TO THE CALLING PARTY SHOULD THE BUSY TONE TRUNK BE IN USE. HOWEVER, WHEN OPTION VM IS PROVIDED, OPTION WD MUST ALSO BE PROVIDED TO GUARANTEE PROPER OPERATION OF THIS SEQUENCE.

TO INSURE THAT BOTH OPTIONS WD AND VM WILL BE PROVIDED ON MODIFICATIONS TO EXISTING PBX'S, ITEM 1 IS ADDED AS FOLLOWS:

ITEM 1: OPTION WD IS RATED MANUFACTURE DISCONTINUED. THE WIRING PROVIDED BY OPTION WD IS RE-ADDED BY BEING DESIGNATED AS PART OF OPTION VM WHICH WAS ADDED AND RATED STANDARD ON LDI 38A.

ATTACHMENTS	ADDITIONAL DISTRIBUTION	REG	L
NONE	NONE		

(TO BE COMPLETED BY WECO)

PRINCIPAL DWG ISSUE

APPROVALS DEPT 5122 BTL CONTROL LOC WECo-HW

D.D. Mauk	12/2/68		
CKT ENGR	DATE	CKT ENGR	DATE
R.W. Sinal	12/3/68		
CKT SUPV	DATE	CKT SUPV	DATE
R.H. Olsen	12/3/68		
APP, EQUIP, OR PROG ENGR	DATE	LAB TESTS ☐ BEFORE CKT ISS ☐ DEFERRED ☒ NONE REQUIRED	
R.W. Fox	12/3/68		
APP, EQUIP, OR PROG SUPV	DATE		

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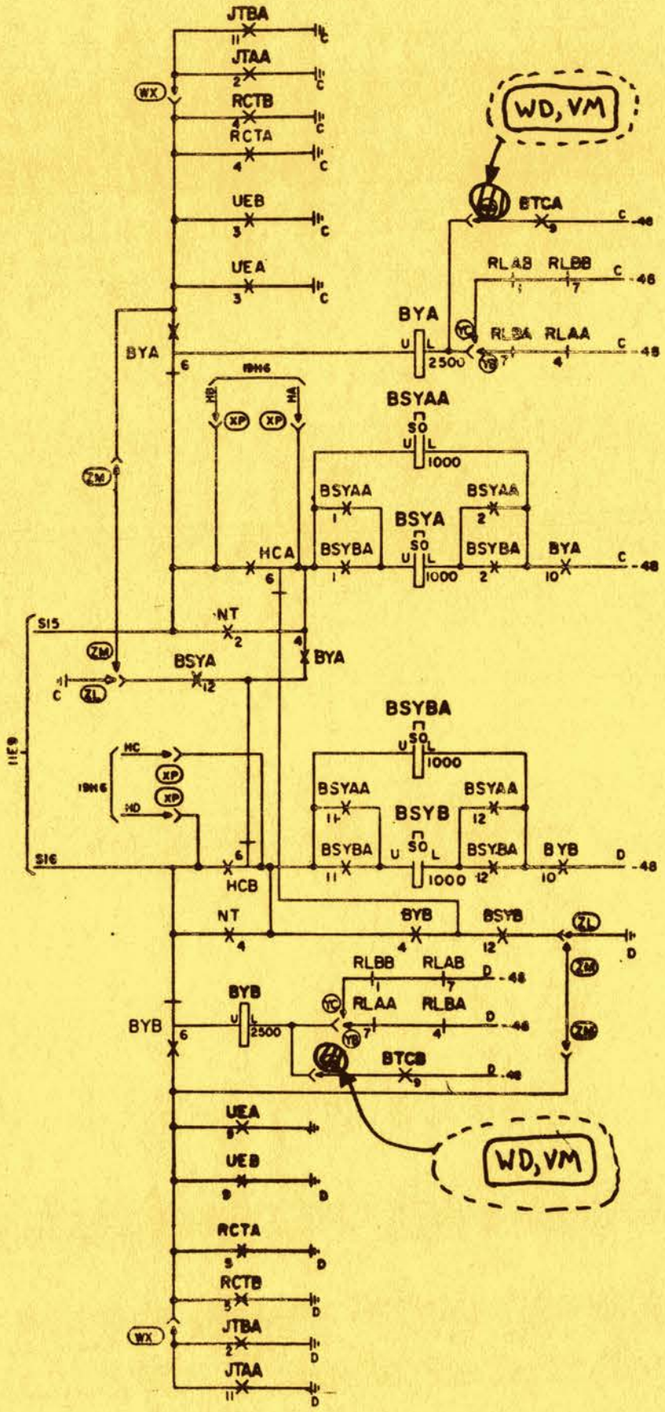
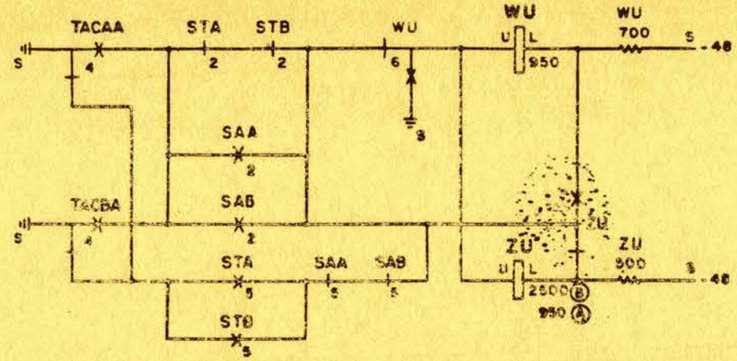
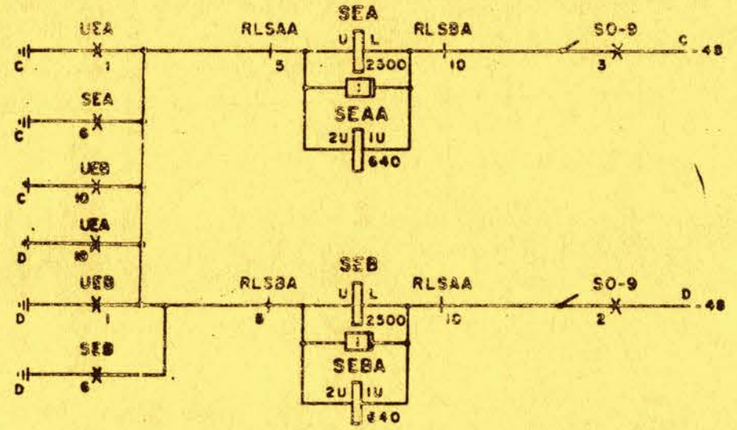
PART OF FS 6

LINE AND TRUNK HUNTING







REL DTSIC	EQUIP LOC
BSYA	5S
BSYAA	5V
BSYB	5U
BSYBA	5U
BTCA,B	9T,S
BYA	5V
BYB	6U
HCA	6Y
HCB	6Y
JTAA	5Y
JTBA	5X
NT	6L,M
RCTA	5Y
RCTB	5X
RLAA	6T
RLBA	6S
RLSAA	6R
RLSBA	6J
SAA	6K
SAB	6J
SEA	6V
SEAA	6V
SEB	6U
SEBA	6U
STA	6S
STB	6J
SO-9	6W
TEAI	6AB
TEBI	6AA
UEA	6V
UEB	6U
WU	6L,M
ZU	6L,M

ENGINEER J. J. Marek DATE 12/2/68

WITNESSED AND [illegible] BY MV

W. E Kostal 12/3/68

LDI 38B FOR ISSUE 39B

LINE, LINK, AN MARKER CIRCUIT

SHEET 2 OF 2

BELL TELEPHONE LABORATORIES INCORPORATED 65

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SD-65741-01-B12

SD-65741-01-B12

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SHEET INDEX (INITIATED ON ISSUE 18)

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SHEET INDEX SUPPORTING INFORMATION	A1	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38																														A1
SHEET INDEX (CONT)	A2	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38																														A2
SHEET INDEX (CONT)	A3	17	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38																														A3
APPARATUS INDEX	A4	12	12	12	12	12	23	24	24	24	27	27	27	30	30	32	33	33	35	35	37	37																														A4
APPARATUS INDEX (CONT) LEAD INDEX	A5	17	19	20	20	20	23	24	24	26	27	28	29	30	31	32	33	33	35	35	37	38																														A5
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FS 1 STATION LINE	B1	18	18	18	21	21	21	24	25	25	27	27	27	30	31	32	33	33	35	35	37	37																														B1
PART OF FS 2 TENS SELECTION	B2	16	16	16	16	16	23	23	23	26	26	26	26	26	26	26	26	26	26	26	26	26																														B2
PART OF FS 2 TENS SELECTION FS 3 TENS PREFERENCE CHAIN	B3	5	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	37	37																														B3
PART OF FS 4 TENS CONNECTOR	B4	3	3	3	3	3	23	23	23	23	23	23	23	23	23	23	23	23	23	23	37	37																														B4
PART OF FS 4 TENS CONNECTOR	B5	8	8	20	20	20	23	23	23	23	23	23	23	30	30	30	30	30	30	30	30	30																														B5
PART OF FS 5 UNITS SELECTION	B6	16	16	20	21	21	23	25	25	25	25	25	25	25	25	32	32	32	32	36	36	36																														B6
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PART OF FS 5 UNITS SELECTION	B8	7	7	20	20	20	23	23	25	25	25	25	25	25	25	32	32	32	32	32	37	37																														B8
PART OF FS 6 LINE AND TRUNK HUNTING	B9	16	16	16	16	16	23	24	25	26	26	26	26	26	31	32	33	33	35	36	36	36																														B9
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PART OF FS 6 LINE AND TRUNK HUNTING	B12	16	16	16	16	16	16	16	23	25	25	25	29	29	29	29	33	33	33	36	36	36																														B12
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FS 8 SEQUENCE CONTROL	B14	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3																														B14
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FS 10 REGISTER CONTROL	B17	16	16	16	16	16	16	24	24	24	24	24	24	24	31	31	31	31	35	35	35	35																														B17
PART OF FS 11 CLASS OF SERVICE	B18	9	9	9	9	9	23	23	23	23	23	23	29	30	31	31	33	33	33	33	37	38																														B18
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PART OF FS 12 LINK TEST	B20	3	3	3	3	3	3	24	24	24	24	24	24	24	24	32	33	33	33	33	33	33																														B20
PART OF FS 12 LINK TEST	B21	12	12	12	12	12	12	24	24	24	24	24	29	29	29	32	33	33	33	33	33	33																														B21
PART OF FS 12 LINK TEST	B22	12	12	12	12	12	23	23	23	23	23	23	23	30	30	30	33	33	33	33	33	33																														B22
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FS 14 ADVANCE, TIMEOUT AND RELEASE	B25	11	19	19	19	19	19	19	19	19	19	19	19	30	30	30	30	30	30	30	30	30																														B25
FS 15 DOWN CHECK FS 16 TIME-OUT CHECK	B26	12	12	12	12	12	12	24	24	24	24	24	24	24	31	31	33	33	35	36	36	36																														B26
PART OF FS 17 LINKS	B27	11	11	11	11	11	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23																														B27
PART OF FS 17 LINKS	B28	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16																														B28
FS 18 UNITS ALARM	B29	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	33	33	33	33	33	33																														B29
FS 19 RELEASE ALARM	B30	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	33	33	33	33	33	33																														B30
FS 20 TENS ALARM	B31	15	15	15	15	15	15	15	15	15	27	27	27	27	27	27	27	27	27	27	37	37																														B31
FS 21 LINK TEST ALARM	B32	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	33	33	35	35	37	37																														B32
FS 22 TIME-OUT ALARM AND ALARM CONTROL FS 23 ALARM LAMPS	B33	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	33	33	33	33	33	38																														B33
FS 24 TRAFFIC REGISTER CONTROL FS 25 TRUNK AND HOLD MAGNETS	B34	16	16	16	21	21	23	23	23	25	23	28	28	28	28	32	33	33	33	33	37	37																														B34
FS 26 LINE CIRCUIT FOR STATION LINES OR TRUNKS	B35	17	19	19	21	21	23	24	25	25	27	27	27	30	30	32	33	33	35	35	37	37																														B35
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	B37													30	30	30	30	34	34	34	34	34																														B37
FS28 LINK TEST	B38																33	33	33	33	33	38																														B38
	B39																33	33	33	33	33	38																														B39
	B40																33	33	33	33	33	33																														B40

SUPPORTING INFORMATION

CATEGORY	NO.
PBX CABLING DIAGRAM 756A FEATURE CABLE	SD-65746-01 SD-66920-01
EQUIPMENT INFORMATION	J-58829H-( ) J-58823AP( ) J-58829AS( )
VOLTAGE REDUCTION DETECTOR	ED-5E009-( ) SD-5E037-01

SHEET INDEX NOTES

1. WHEN CHANGES ARE MADE IN THIS DRAWING, ONLY THOSE SHEETS AFFECTED WILL BE REISSUED.
2. 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.
3. THE ISSUE NUMBER ASSIGNED TO A CHANGED OR NEW SHEET WILL BE THE SAME ISSUE NUMBER AS THAT OF THE SHEET INDEX.
4. SHEETS THAT ARE NOT CHANGED WILL RETAIN THEIR EXISTING ISSUE NUMBER.
5. THE LAST ISSUE NUMBER OF THE SHEET INDEX IS RECOGNIZED AS THE LATEST ISSUE NUMBER OF THE DRAWING AS A WHOLE.

DWG ISS	CD ISSUE	DWG ISS	CD ISSUE	DWG ISS	CD ISSUE
1	1	28	28	38	28 APP 1B
6A	28 APP 2A	90	28 APP 3D	6A	28 APP 1B
70	28 APP 5D	88	28 APP 6B	98	28 APP 7B
108	28 APP 8B	118	28 APP 9B	128	38
138	28 APP 10	148	38 APP 2D	15A	38 APP 3A
160	48	178	48 APP 1B		

DWG ISSUE	CD ISSUE	DATE ISSUED	DRAWN	APP'D	
18A	4B APP 2A	9-13-62	RT AS	S.Z PD	
19B	4B APP 3B	4-30-63	EG WVH	EHB PD	
20AC	4B APP4AC	4-30-63	EG WVH	EHB PD	HO
21B	4B APP5B	7-30-63	WVH	EHB PD	
22AC	4B APP6AC	11-6-63	JJG RG	EHB PL	HO
23D	5D	4-14-64	ZEN DHC	GKO RAV AAM	HO
24D	5D APP 1D	8-2-64	WPA SAK RHB	AEK RAV KFJ	HW
25D	5D APP 2D	2-8-65	GAP SAK EWS	GAM RAV KFJ	HW
26AC	5D APP 3AC	3-8-65	GAP SAK EWS	GAM RAV KFJ	
27D	5D APP 4D	9-15-65	EWE SAK RCL	RRS RAV GFH	
28D	5D APP 5D PA TI	8 4 65	PJS SAK	RHB RAV GFH	
29B	5D APP 6B	3-29-66	JJH SAK	WES RAV GFH	
30D	6D	6-24-66	DWB PJS RCL	HDB LAH GFH	
31D	6D APP 1D	10-27-66	PMC PJS RCL	KRS LAH RHP	
32D	6D APP 2D	5-19-67	EWE SAK UT	JJM LAH RHP	
33D	7D	12-8-67	ROZ PJS RCL	JJM LAH RHP	
34D	7D APP 1D	12-8-67	ROZ PJS RCL	JJM LAH RHP	
35D	7D APP2D	12-[illegible]-67	ROZ PJS RCL	JJM LAH RHP	
36B	7D APP 3B	7-3-68	ROZ PJS RCL	JJM LAH LDJ	
37B	7D APP 4B	9-3-68	ROZ PJS RCL	JJM LAH LDJ	
38D	7D APP 5D	9-3-68	ROZ PJS RCL	JJM LAH LDJ	

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SD-65741-01 IJ07 PBX SYSTEMS NO. 756A LINE, LINK, AND MARKER CIRCUIT (LL & MKR) (2)	AT&TCO STANDARD	
BELL TELEPHONE LABORATORIES INCORPORATED	DWG SIZE 6S	SD-65741-01-A1 106 SHEETS PRINTED IN U.S.A.

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PART OF APP FIG. 7	C6	1	2	2	4	4	4	4	8	8	8	8	12	12	12	12	12	12	12	19	19	19	19	19	24	24	24	24	28	28	28	28	28	33	33	33	36	36	36												C6
APP FIG. 8	C7	1	2	3	4	4	6	6	6	6	6	8	12	12	12	12	16	16	16	16	16	16	22	23	23	25	26	26	28	29	30	31	31	33	34	35	36	36	38												C7
APP FIG. 9 (MFR DISC)	C8	1	2	3	4	4	4	4	8	8	8	8	12	12	12	12	12	12	12	12	12	12	12	12	24	24	24	24	28	29	30	30	30	33	33	33	36	37	37												C8
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SC 2 - CENTRAL OFFICE TRUNK OR RING-DOWN TIE TRUNK DIAL TONE CONNECTION	E2	1	2	2	2	2	2	7	7	7	7	7	12	12	12	12	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	32	33	33	33	33	37	37												E2
PART OF SC 3 - STATION OR CODE B TIE TRUNK TO STATION CONNECTION	E3	1	2	3	4	4	4	7	7	7	7	7	12	12	12	12	16	16	16	16	16	16	16	16	16	16	16	16	16	16	30	30	32	33	33	33	33	37	37												E3
PART OF SC 3 - STATION OR CODE B TIE TRUNK TO STATION CONNECTION	E4	1	2	2	2	2	2	7	7	7	7	7	12	12	12	12	12	12	12	19	19	19	19	19	19	19	19	19	19	19	30	30	32	33	33	33	33	33	33												E4
SC 4 - STATION TO CENTRAL OFFICE TRUNK CONNECTION	E5	1	2	2	2	2	2	7	7	7	7	7	12	12	12	12	12	12	12	12	12	21	21	21	21	21	21	21	21	21	21	21	33	33	33	33	33	33	33												E5
SC 5 - CENTRAL OFFICE OR RINGDOWN TIE TRUNK TO STATION CONNECTION	E6	1	2	2	2	2	2	7	7	7	7	7	12	12	12	12	16	16	16	16	16	21	21	23	23	23	23	23	23	23	23	23	33	33	33	33	33	37	37												E6
SC 6 - CENTRAL OFFICE OR RINGDOWN TIE TRUNK TO CODE B TRUNK CONNECTION	E7	1	2	2	2	2	2	2	2	2	2	2	12	12	12	12	16	16	16	16	16	16	16	23	23	23	23	23	23	23	30	30	32	32	32	32	32	32	32												E7
PART OF SC 7 - STATION TO STATION CALL TO BUSY STATION - BUSY TONE TRUNK IDLE - ALL STATIONS IN HUNTING GROUP ALSO BUSY	E8	1	1	1	1	1	1	7	7	7	7	7	12	12	12	12	12	12	12	19	19	19	19	23	23	23	23	27	27	29	29	29	32	33	33	33	36	37	37												E8
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12B	D.L. WH	R.P.B.
13D	D.L. LHE	R.P.B.
14B	V.S. JBS	T.E.B.
15A	LLB WH PD	
16B	MS H. PD	
17B	JR WH PD	
18A	R.P. A.S. PD	
19B	EG WH PD	
20AC	EG WH PD	H.W.
21B	FO WH P.D.	
22AC	JJG RG PD	H.W.
23D	ZEN DHC MM	H.W.
24D	WPA SAK KFJ	H.W. HW
25D	GAP SAK KFJ	
26AC	GAP SAK KFJ	
27D	EME SAK GFH	
28D	PJS SAK GFH	
29B	JJH SAK GFH	
30D	DWB PJS GFH	
31D	PMC RJS RHP	
32B	EME SAK RHP	H.W.
33D	ROZ PJS RHP	
34D	ROZ PJS RHP	
35D	ROZ PJS RHP	
36B	ROZ PJS LDJ	
37B	ROZ PJS LDJ	
38D	ROZ PJS LDJ	

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LINE, LINK, AND MARKER CIRCUIT

SD-65741-01-A2

BELL TELEPHONE LABORATORIES INCORPORATED

DWG SIZE 2 6S

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SC 13 - BUSY TONE TRUNK BUSY PART OF SC 14 - INTERCEPTED CALL - CALLED LINE UNASSIGNED	E13	1	2	2	2	2	2	7	7	7	7	7	12	12	12	12	12	12	12	19	19	19	19	19	19	19	19	19	19	29	29	29	32	33	33	33	36	37	37												E13
PART OF SC 14 - INTERCEPTED CALL - CALLED LINE UNASSIGNED	E14												12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	32	33	33	33	36	36	36												E14
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CKT REQ TABLES, LAL2 TO LTCB	F4	1	2	2	4	4	4	4	4	10	10	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	33	33	33	33	33	33												F4
CKT REQ TABLES, LTS2 TO RCAI	F5	1	2	2	2	2	2	2	2	2	2	11	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	27	27	27	30	30	30	33	33	33	33	33	33											F5
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CKT REQ TABLES, TEBO TO TRCI	F9	1	2	2	2	2	2	2	2	2	2	11	11	11	11	11	11	11	11	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20											F9
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DRAWING ISSUE	
12B	D.L. WHH
13D	D.L. LHG V.S. JBS
14B	LLB WHH P.D.
15A	JBS H.C. RDR
16B	JR WHH PD
17B	EG WHH PD
19B	EG WHH PD
20AC	FO WHH PD
21B	JJG RG PD ZEA
22AC	PHC MDM WPA
23D	SAK KFJ
24D	GAP SAK KFJ
25D	GAP SAK KFJ
26AC	EME SAK GFH
27D	WAM SAK GFH
28D	JJH GFH WAM
29B	RDZ SAK RHF
31D	SME SAK RHF
32D	RDZ PJS RHF
33D	RDZ PJS RHF
34D	ITEP PJS RHF
35D	RDZ PJS LDJ
36B	RDZ PJS LDJ
37B	RDZ PJS LDJ
38D	

LINE, LINK, AND MARKER CIRCUIT (2) SD-65741-01-A3

BELL TELEPHONE LABORATORIES INCORPORATED SIZE 6S PRINTED IN U.S.A.

SD-65741-01-A3

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ACB	8B7	7	6-U
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ALBB	22D2,40B1	9,22	6-P
ARBA	2A8	4	6-AB
ARBB	2C8	4	6-AA
B	36D5	20	EXT
BSYA	12D3	7	6-V
BSYAA	12D3	7	6-V
BSYB	12E3	7	6-U
BSYBA	12F3	7	6-U
BTCA	15H2	8	6-T
BTCB	15H2	8	6-S
BTTA	16B4	8	6-T
BTTB	16F4	8	6-S
BTTC	16D4	8	6-R
BYA	12C3	7	6-V
BYB	12F2	7	6-U
CCC	16D1	8	6-R
C020-29	35H3	3	SWBD OR
C030-79	1E4	3	APP CAB
COA	16B4	8	6-T
COAA	16B4	8	6-R
COB	16E4	8	6-S
COBA	16E4	8	6-R
COAL	32D1	11	1AB
CONA	16B4	8	6-T
CONAA	16A4	8	6-T
CONB	16E4	8	6-S
CONBA	16E4	8	6-S
COS	23D4	9	6-P
COSA	22D4,40F3	9,22	6-P
COSB	22E4,40H3	9,22	6-P
COTA	15F6	8	6-T
COTB	15G6	8	6-S
DCKA	26A5	8	6-R
DCKB	26C5	8	6-R
HCA	9B1	7	6-Y
HCB	9C1	7	6-Y
HMKA	9B4	7	6-V
HMKB	9C4	7	6-U
HMTA	15C2	8	6-T
HMTAA	15C2	8	6-T
HMTB	15E2	8	6-S
HMTBA	15D2	8	6-S
ICTA	16D4	8	6-T
ICTB	16G4	8	6-S
IN20-24	35G5	1	2-N
IN25-29	35G5	1	2-P
JR0	13A1	7	6-X
JR1	13C1	7	6-X
JR2	13D1	7	6-X
JR3	13E1	7	6-X
JR4	13F1	7	6-X
JR5	13G1	7	6-X
JRAL	29A9	11	1-AA
JREA	13B8	7	6-Y
JREB	13B8	7	6-X
JTA	14A6	7	6-Y
JTAA	14H5	7	6-Y
JTB	14B6	7	6-X
JTBA	14H7	7	6-X
L20-24	35C6	1	2-N
L25-29	35C6	1	2-P
L30-39	1D6	1	2-L
L40-59	1D6	2	3-L
L60-79	1D6	2	4-L
LAL1	32B4	11	1-AA

DESIG	LOCATION FS	APP FIG.	EQPT
RELAYS			
LAL2	32B7	11	1-AA
LAL2A	32A7	11	1-AA
LBA	22B2,40A1	9,22	6-Q
LBB	22E2,40C1	9,22	6-Q
LCK1	24F3	9,22	6-P
LCK2	24H3	9,22	6-P
LEA	23A4,38G2	9,22	6-Q
LEAA	23B4,38H2	9,22	6-Q
LEB	23B4,38H7	9,22	6-Q
LEBA	23C4,38H7	9,22	6-Q
LSHA	22A2,40B3	9,22	6-N
LSHB	22C2,40C3	9,22	6-N
LT2	20A2,38C1	9,22	6-N,P
LT3	20D2,38E1	9,22	6-N,P
LT4	20F2,38B6	9,22	6-N,P
LT5	20A7,38E6	9,22	6-N,P
LT6	20D7,39C1	9,22	6-N,P
LT7	20F7,39E1	9,22	6-N,P
LT8	21A2,39C6	9,22	6-N,P
LT9	21D2,39E6	9,22	6-N,P
LTA	22A7,40A7	9,22	6-Q
LTAA	22A7,40A7	9,22	6-Q
LTB	22A4,40B7	9,22	6-Q
LTBA	22B4,40B7	9,22	6-Q
LTCA	22G1,40C1	9,22	6-N
LTCB	22G5,40D1	9,22	6-N
LTS2	21F2	9	6-P
LTS3	21A7	9	6-P
LTS4	21C7	9	6-P
LTS5	21E7	9	6-P
LTS6	21F7	9	6-P
LTS7	22F1	9	6-P
LTS8	22E1	9	6-P
LTS9	22E1	9	6-P
LUCA	8F5	7	6-V
LUCB	8H5	7	6-U
MAL	30D0	11	1-AB
MON 2-7	1F3	3	SWBD
MON A,B,C	1H2	3	APP CAB
MS	36F5	21	EXT
MTA	25D2	10	6-K
MTB	25D7	10	6-J
NAA	25B2	10	6-K
NAB	25B7	10	6-J
NCA	25C2	10	6-K
NCB	25C7	10	6-J
NT	18G5	9,22	6-L,M
OT20-24	35F5	1	2-N
OT25-29	35F5	1	2-P
RC	2E8	4	6-AA
RI	2G8	4	6-AA
RAOA	17A7	5	6-G
RAOB	17A7	5	6-G
RA1A	17C7	5	6-G
RA1B	17C7	5	6-G
RCAO	5A1	5	6-H
RCA1	5E1	5	6-H
RCBO	5B1	5	6-H
RCB1	5E1	5	6-H
RCCO	5C1	5	6-H
RCC1	5F1	5	6-H
RCDO	5C1	5	6-H
RCD1	5G1	5	6-H
RCEO	5D1	5	6-H
RCE1	5G1	5	6-H
RCKA	26A7	8	6-R
RCKB	26B7	8	6-R
RCTA	14C6	7	6-Y
RCTAA	14C6	7	6-V

DESIG	LOCATION FS	APP FIG.	EQPT
RELAYS			
RCTB	14D6	7	6-X
RCTBA	14D6	7	6-U
RGA	17E7	5	6-G
RGAA	17F7	5	6-G
RGB	17G7	5	6-G
RGBA	17H7	5	6-G
RHKA	17A1	5	6-G
RHKB	17B1	5	6-G
RLO	37E6	19	EXT
RLI	37B6	19	EXT
RLA	15A6	8	6-T
RLAA	15B6	8	6-T
RLAB	15C6	8	6-T
RLAL	30C2	11	1-AA
RLB	15C6	8	6-S
RLBA	15D6	8	6-S
RLBB	15E6	8	6-S
RLSA	25G1	10	6-K
RLSAA	25F1	10	6-K
RLSB	25G1	10	6-J
RLSBA	25H1	10	6-J
RPO	3G1	4	6-Z
RP1	3G2	4	6-Z
RPAO	5H6	7	6-W
RPA1	5H6	7	6-W
RUCA	8D5	7	6-V
RUCB	8E5	7	6-U
S0	10C0	7	6-W
S1	10C2	7	6-W
S2	10C4	7	6-W
S3	10C5	7	6-W
S4	10C7	7	6-W
S5	11C0	7	6-W
S6	11C2	7	6-W
S7	11C4	7	6-W
S8	11C5	7	6-W
S9	11C7	7	6-W
SAA	25B2	10	6-K
SAB	25B7	10	6-J
SEA	12D6	7	6-V
SEAA	12D6	7	6-V
SEB	12F6	7	6-U
SEBA	12F6	7	6-U
SL20-29	35F8	17	2-Q
SMC0	24A0	16	4-AA
SMC1	24C0	15	3-V
SMC2	24D0	1	2-L
SMC3	24D0	1	2-L
SMC4	24E0	15	3-V
SMC5	24E0	15	3-V
SMC6	24F0	16	4-AA
SMC7	24G0	16	4-AA
SMC8	24G0	16	4-AA
SMRA	15E2	8	6-T
SMRAA	15F2	8	6-T
SMRB	15F2	8	6-S
SMRBA	15G2	8	6-S
SMTA	23F2	9,22	6-Q
SMTB	23G2	9,22	6-Q
SOA	15A2	8	6-R
SOB	15B2	8	6-R
STA	25A2	10	6-K
STAR	25A2	10	6-K
STB	25A7	10	6-J
ST8R	25A7	10	6-K
T2	3A1	4	6-AA
T3	3C1	4	6-AA
T4	3A4	4	6-AA
T5	3C4	4	6-AA

DESIG	LOCATION FS	APP FIG.	EQPT
RELAYS			
T6	3A8	4	6-AA
T7	3C8	4	6-AA
TA2	2D4	4	6-AB
TA3	2D4	4	6-AB
TA4	2D4	4	6-AB
TA5	2D4	4	6-AB
TA6	2D4	4	6-AB
TA7	2D4	4	6-AB
TAA	25G7	10	6-K
TAAL	30F2	11	1-AA
TAB	25H7	10	6-J
TACA	4A8	7	6-Y
TACAA	4B8	7	6-Y
TACB	4B8	7	6-Y
TACBA	4C8	7	6-Y
TAL	31A0	11	1-AA
TCK1	3F0	4	6-Z
TCK2	3G0	4	6-Z
TCK3	3F0	4	6-Z
TCK4	3H0	4	6-Z
TCS2	4A1	1	2-M
TCS3	4D1	1	2-M
TCS4	4F1	2	3-M
TCS5	4A3	2	3-M
TCS6	4D3	2	4-M
TCS7	4F3	2	4-M
TEA0	2E1	4	6-AB
TEA1	2F1	4	6-AB
TEA2	2F1	4	6-AB
TEA3	2F1	4	6-AB
TEB0	2G1	4	6-AA
TEB1	2H1	4	6-AA
TEB2	2H1	4	6-AA
TEB3	2H1	4	6-AA
THC2	4B1	1	2-M
THC3	4D1	1	2-M
THC4	4G1	2	3-M
THC5	4B3	2	3-M
THC6	4D3	2	4-M
THC7	4G3	2	4-M
TKC	5A6	6	4-Z
TKB	5D6	1	2-L
TKS	5F6	6	4-Z
TKA0	5B6	6	4-Z
TKA8	5D6	1	2-L
TKA9	5F6	6	4-Z
TKB0	5C6	6	4-Z
TKB8	5E6	1	2-L
TKB9	5G6	6	4-Z
TM2	4C1	1	2-M
TM3	4E1	1	2-M
TM4	4H1	2	3-M
TM5	4C3	2	3-M
TM6	4E3	2	4-M
TM7	4H3	2	4-M
TMA	25G4	10	6-K
TMB	25H4	10	6-J
TOA	25F7	10	6-K
TOAL	33B2	11	1-AA
TOALA	33B2	11	1-AA
TOB	25F7	10	6-J
TOKA	26F2	10	6-K
TOKB	26G2	10	6-J
TOLA	26F7	10	6-K
TOLB	26G7	10	6-J
TP2	3G4	4	6-Z
TP3	3G5	4	6-Z
TP4	3G6	4	6-Z

DESIG	LOCATION FS	APP FIG.	EQPT
RELAYS			
TP5	3G7	4	6-Z
TP6	3G7	4	6-Z
TP7	3G8	4	6-Z
TRO	2A1	4	6-AB
TRI	2C1	4	6-AA
TRA	25D2	10	6-K
TRAO	2A4	4	6-AB
TRA1	2A4	4	6-AB
TRAL	31D4	11	1-AA
TRB	25D7	10	6-J
TRCO	4E8	6	4-Z
TRC1	4H8	6	4-Z
TRCA	14A2	7	6-Y
TRCAA	14B2	7	6-Y
TRCB	14E2	7	6-X
TRCBA	14E2	7	6-X
TRKA	14C2	7	6-Y
TRKAA	1482	7	6-Y
TRKB	14F2	7	6-X
TRKBA	14F2	7	6-X
TRLA	22B7,40C7	9,22	6-Q
TRLB	22C7,40C7	9,22	6-Q
TRMO	4D8	6	4-Z
TRM1	4F8	6	4-Z
TRPO	3G3	4	6-Z
TRP1	3G4	4	6-Z
TRUO	4E8	6	4-Z
TRU1	4G8	6	4-Z
TS	19D2	8	6-R
TSDA	18E5	8	6-R
TSDB	18F5	8	6-R
TT	18B5	8	6-R
TU2	4B1	1	2-M
TU3	4E1	1	2-M
TU4	4G1	2	3-M
TU5	4B3	2	3-M
TU6	4E3	2	4-M
TU7	4G3	2	4-M
U0	6B1	7	6-V
U1	6E1	7	6-V
U2	6B6	7	6-V
U3	6E6	7	6-V
U4	7B1	7	6-V
U5	7E1	7	6-V
U6	7B6	7	6-U
U7	7E6	7	6-U
U8	8B1	7	6-U
U9	8E1	7	6-U
UAL	29B3	11	1-AA
UAL1	29D3	11	1-AA
UAL1A	29C3	11	1-AA
UAL2	29A2	11	1-AA
UEA	8D8	7	6-V
UEB	8F8	7	6-U
ULA	8G5	7	6-V
ULB	8H5	7	6-U

DESIG	LOCATION FS	APP FIG.	EQPT
RELAYS			
WIL	24C7	9,22	6-L,M
WILA	32F7	9,22	6-L,M
WL	24A7	9,22	6-L,M
WLA	32D7	9,22	6-L,M
WLG	22D8,40E8	9,22	6-L,M
WLGA	22C8,40D8	9,22	6-L,M
WU	1286	9,22	6-L,M
WUA	29G3	9,22	6-L,M
XC	38A0	22	6-P
XCAL	32D1	11	1AB
ZIL	24D7	9,22	6-L,M
ZL	24B7	9,22	6-L,M
ZLG	22E7,40F6	9,22	6-L,M
ZU	12C6	9,22	6-L,M

DRAWING ISSUE	
1	ENG ME
2B	TCC RGS
4A	AD 2ND
11B	D.L. LHK
12B	RTN WM
23D	ZEN DHC ARM
24D	WPR SAK KFJ
27D	EWE SAK GFH MAB
30D	PJS GFH JJR
32D	SAK RHP
33D	ROZ PJS RHP
35D	ROZ PJS RHP
37B	ROZ PJS LDJ

LINE, LINK, AND MARKER CIRCUIT (12)

SD-65741-01-A4

BELL TELEPHONE LABORATORIES INCORPORATED

DWG SIZE 6S

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APPARATUS INDEX (CONT)

DESIG	LOCATION FS	APP FIG.	EQPT
DIODES			
A	36B5	20	
B	36E5	20	
CC1	16C4	8	
CC2	16F4	8	
CO1	9C7	8	
CO2	9C8	8	
CO3	9D7	8	
CO4	9D8	8	
COSA	40E3	22	
COSB	40H3	22	
D1	38B3	8	
D2	39B3	8	
H	1G3	2	
H	6F5	1	
H	7H4	1	
H	35A2	1	
HA	2B7	8	
HB	2C7	8	
HE	2C7	8	
HO	2B7	8	
L	35C6	1	
LT2	38C1	22	
LT3	38E1	22	
LT4	38C6	22	
LT5	38F6	22	
LT6	39C1	22	
LT7	39F1	22	
LT8	39C6	22	
LT9	39F6	22	
LTSA	20G1, 38D0	8	
LTSB	21F0, 39E5	8	
LTSC	21E2, 39G5	8	
RLSA,B	37D2-3	10	
S(0-9)	10C-, 11C-	7	
SCC	35H5	1	
SMT(A,B)	9C4, 9D4	9,22	
TP2-7	3G4-8	4	
TRP0,1	3G3	4	

JACKS			
L20-29	35D0	3	
L30-79	1D1	3	

LAMPS			
CS	18A0	7	
COAL	33B9	11	
JRAL	33D8		
LAL1	33F8		
LAL2	33F8		
MAL	33H8		
RLAL	33D8		
TAAL	33G8		
TAL	33E8		
TOAL	33E8		
TRAL	33C8		
TS	33G8		
UAL	33B8		
UAL1	33B8		
UAL2	33C8		
XCAL	33B9	11	

DESIG	LOCATION FS	APP FIG.	EQPT
MAGNETS, HOLD			
LHM(20-29)	35H5	14	2
LHM(30-39)	1E6	14	2
LHM(40-59)	1E6	13	3
LHM(60-79)	1E6	12	4
THM(00-04)	34D6	12	4
THM(05,06)	34F9	12	4
THM07	34G6	12	4
THM(08,09)	17B3	12	4
THM(10-17)	9F3	13	3
THM(18,19)	17C3	13	3
THM80	34F9	12	4
THM(81-84)	9F3	12	4
THM(85-89)	34D6	12	4

MAGNETS, SELECT			
SM(0-8)0	24H6	12,13,14	
SM(0-8)1	24G6	12,13,14	
SM(0-8)2	24A3	12,13,14	
SM(0-8)3	24B3	12,13,14	
SM(0-8)4	24B3	12,13,14	
SM(0-8)5	24C3	12,13,14	
SM(0-8)6	24D3	12,13,14	
SM(0-8)7	24D3	12,13,14	
SM(0-8)8	24E3	12,13,14	
SM(0-8)9	24F3	12,13,14	

RESISTORS			
COSA	23D5,40F3	9,22	
COSB	23D5,40G3	9,22	
L02	20B3	9	
L03	20D3	9	
L04	20G3	9	
L05	20B8	9	
L06	20D8	9	
L07	20G8	9	
L08	21B4	9	
L09	21E4	9	
L12	20B3	9	
L13	20D3	9	
L14	20G3	9	
L15	20B8	9	
L16	20D6	9	
L17	20G8	9	
L18	21B4	9	
L19	21E4	9	
LTA2	20A0,38B0	9,22	
LTA3	20C0,38E0	9,22	
LTA4	20F0,38B5	9,22	
LTA5	20F5,38E4	9,22	

DESIG	LOCATION FS	APP FIG.	EQPT
RESISTORS			
LTA6	20C5,39C0	9,22	
LTA7	20F5,39E0	9,22	
LTA8	21A0,39C4	9,22	
LTA9	21C0,39E4	9,22	
LTB2	20B0	9	
LTB3	20B0	9	
LTB4	20G0	9	
LTB5	20G0	9	
LTB6	20D5	9	
LTB7	20D5	9	
LTB8	21B1	9	
LTB9	21B8	9	
PC	36G4	21	
S20-29	35D7	1	
SM0-9	24A4-F4, 24H5-G5	9,22	
TKA9	5G6	6	
TKB9	5E6	1	
WIL	24C7	9,22	
WILA	32F8	9,22	
WL	24A7	9,22	
WLA	32D8	9,22	
WLGA	22E8, 40D8	9,22	
WU	12B7	9,22	
WUA	29C4	9,22	
ZU	12C7	9,22	

LEAD INDEX

DESIG	FS LOC
MARKER TO MARKER	
A1	31G4
A2	31G4
A3	31F2
A4	31G5
A5	31F5
A6	31G2
A7	31E6
A8	31E6
A9	31F6
A10	31E7
A11	31G6
A12	31F8
BAT	36C3
COA	32D1
COSA	22E5,40F4
COSB	22E5,40H4
COT	18D4
CS0	18B2
CS1	18C2
CS3	18D2
CS4	18D2
CS5	18E2
CS6	18F2
CS7	18F2
CS8	18G2
CS9	18H2
GRD	36G3
HE	2C8
HO	9C8
JRAL	29A9
L2	3A0
L3	3C0
L4	3A4
L5	3C4
L6	3A7
L7	3C7
LAL1	32B3
LAL2	32B7
LG	21E1,39G4
LH0	6D1
LH1	6G1
LH2	6D6
LH3	6G6
LH4	7D1
LH5	7G1
LH6	7D6
LH7	7G6
LH8	8D1
LH9	8G1
M1	1F2
M2	3B6
MS80-89	35H6
OF	31C5
RO	3F5
R1	
R02	27D1
R03	27C1
RC4	27C1
R05	27C1

DESIG	FS LOC
MARKER TO MARKER	
R06	27C1
R07	27C1
R08	27C1
R09	27B1
R12	27D1
R13	27C1
R14	27C1
R15	27C1
R16	27C1
R17	27C1
R18	27C1
R19	27B1
RC0	36C3
RC1	36C3
RL	37A5
RL0	37E5
RL1	37B5
RLAL	30C3
RSA	19D4
RSB	19E4
RSC	19D4
RSD	19E4
S02	27D1
S03	27C1
S04	27C1
S05	27C1
S06	27C1
S07	27C1
S08	27C1
S09	27B1
S12	27D1
S13	27C1
S14	27C1
S15	27C1
S16	27C1
S17	27C1
S18	27C1
S19	27B1
SD6	10G5
SD7	10G3
SD8	10G1
SD9	10G0
SLT0	10F0
SLT1	10F2
SLT2	10F4
SLT3	10F6
SLT4	10F8
SLT5	11F0
SLT6	11F2
SLT7	11F4
SLT8	11F6
SLT9	11F8

DESIG	FS LOC
MARKER TO MARKER	
SMC0	24A0
SMC1	24C0
SMC6	24F0
SMC8	24G0
SMTA	23F7
SMTB	23G7
TC	19G4
TO2	27E1
TO3	27C1
TO4	27C1
TO5	27C1
TO6	27C1
TO7	27C1
TO8	27C1
TO9	27C1
TI2	27D1
TI3	27C1
TI4	27C1
TI5	27C1
TI6	27C1
TI7	27C1
TI8	27C1
TI9	27B1
TAL	31A0
TAAL	30G3
TDM0	36E3
TDM1	36A3
TH0	6D1
TH1	6G1
TH2	6C6
TH3	6G6
TH4	7C2
TH5	7G1
TH6	7D6
TH7	7G6
TH8	8D1
TH9	8G1
TK00	36H3
TK01	36H3
TK98	36C0
TKL0	5A6
TKL8	5D6
TKL9	5F6
TKU0	5A5
TKU8	5D5
TKU9	5F5

DESIG	FS LOC
MARKER TO MARKER	
TML2	4A1
TML3	4D1
TML4	4F1
TML5	4A4
TML6	4D4
TML7	4F4
TMU2	4A0
TMU3	4D0
TMU4	4F0
TMU5	4A3
TMU6	4D3
TMU7	4F3
TOAL	33B2
TOKAL	26F5
TOKAU	26F0
TOKBL	26G5
TOKBU	26G0
TPA	4F2
TPB	4D5
TRAL	31E4
TRCL0	4D8
TRCL1	4F8
TRCU0	4D8
TRCU1	4F8
TS	33G8
TTOA	19B4
TTEA	19B4
U00	6B2
U01	6F2
U02	6B8
U03	6F7
U04	7B2
U05	7E2
U06	7B7
U07	7F7
U08	8B2
U09	8E2
UAL	29B4
UAL1	29D3
UAL2	29A2
XCA	32D1

SUPER-SEDES ISS 29B

30D	OWB	HV
	PJS	
	GFH	
31D	PMC	
	PJS	
	RHP	
32D	EWE	
	SAK	H.V.
	RHP	
33D	ROZ	
	PJS	
	RHP	
35D	ROZ	
	PJS	
	RHP	
37B	ROZ	
	PJS	
	LDJ	
38D	ROZ	
	PJS	
	LDJ	

SD-65741-01-A5

② LINE, LINK, AND MARKER CIRCUIT

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LEAD INDEX (CONT)

3A CODE CALL CKT OR INTERFACE TRUNK CKT	
DESIG	FS LOC
R1	35G8
R2	35E8
S	35G8
S1A	35G8
S2	35E8
T1	35G8
T2	35E8

ALARM, TRANSFER, AND TEST CKT	
DESIG	FS LOC
AT	33C5
CA	19D1
JA	29B8
KA	31E4
LA	32A3
LAI	32D1
MT	33D5
OA	33C2
R	1B6, 1C5
R1	1C5
RA	30E2
S	1F7
S1	1F6
T	1B5, 1B6
T1	1B5
TA	31A0
TT	33B5
UA	29C2

ATT TRUNK CKT	
BAT	34F9
HM	34F9
IT00-02	34F6
IT05-07	34F6
KO	18H6
R	27H3
S	27H3
T	27H3
TR01	2B1
TR02	2B1
TR10	2D1
UO	6A3
U5	7E3
U6	7A8

AUXILIARY POSITION CKT	
COSA	22D5, 40F4
COSB	22E5, 40G4
COSAI	22E6, 40F5
COSBI	22E6, 40G5
R2	35E8
S2	35E8
T2	35E8

BUSY TONE TRUNK CKT	
BAT	34G7
HM07	34H7
R	27G3
S	27G3
T	27G3

BUSY VERIFICATION AUX TRUNK CKT	
BY	19G9
IT07	34F6
LK	19G2
ME	9F9
NN	19G3
NT	18F6
R	27H3
RLSE	19G9
RSE	19G9
S	27H3
ST90	34D6
ST90-1	34D6
T	27H3
UO	7A7
U6	7A8

CENTRAL OFFICE AND RINGDOWN TIE TRUNK CKT	
BAT	34D7
BYE	19H8
BYO	19C9
CW	23D3
FFE	19H8
FFO	19C9
IT90-99	34D7
ME	34C7
MO	34C7
NT	18G6
R	27G1
RLSE	19H8, 34E7
RLSO	19C9, 34E7
RSO	19C9
RSE	19H8
RTE	19H8
RTO	19C9
S	27G1
ST90-99	34D7
T	27G1
TLAE	19H8
TLAO	19C9

CENTRAL OFFICE AND RINGDOWN TIE TRUNK CKT (CONT)	
TRO	2A0
TR1	2C0
TTE	19H8
TTO	19C9
UO	6B3
U1	6E3
U2	6B8
U3	6E8
U4	7B3
U5	7F3
U6	7B8
U7	7F8
U8	8B3
U9	8E3

CORDLESS POS CKT	
BL20-29	35A7
BL30-79	1A7
BL80-89	35A7

DIAL CONFERENCE CKT.	
R2	35E8
S2	35E8
T2	35E8

DIAL CONFERENCE TRUNK CKT(ATT CONT)	
CCC	16D0
CO	35A3
D8	5D3
OT1-5	35E6
R1	35A8
RLSE	19F9
RSE	19F9
S1	35A8
T1	35A8

DIAL CONFERENCE TRUNK CKT (STA CONT)	
CCC	16D0
D0	5B3
D8	5D3
D9	5B3
HM	35C3
TT	35B3
MON 1	35D8
MON 2	35D8
OTG	35H5
R1	35A8
R2	35E8
RLSE	19F9
RSE	19F9
S1	35A8
S2	35E8
T1	35A8
T2	35E8

JUNCTOR CKT	
BAT	9F3
OHMO-5	9F4
RO	27G4
RT	27G6
SO	27G4
ST	27G6
THMO-5	9F4
TO	27G4
TT	27G6

LINE CKT	
HM	35C1
IT	35C1
S2	35C1

LOUDSPEAKING PAGING TRUNK CKT	
HM	35D1
IT	35D1
R2	35D1
S2	35D1
T2	35D1

MESSAGE WAITING SERVICE KEY, INTERRUPTER, AND POWER SUPPLY CKT	
L	1D5, 35A6
R	1D5, 35A6

RECORDED TELEPHONE DICTATION TRUNK CKT	
R2	35E8
S2	35E8
T2	35E8

REGISTER CKT	
A	10H1
B	10H1
BTAO	17B4
BTA1	17D4
BYO	17G5
BY1	17E5
C	10H1
COTO	18D8
COT1	18E8
CPCO	34F1
CPC1	34F2
CTAO	15F7
CTA1	15G7
CTBO	15F7
CTB1	15G7
D	10H1
DC1	2E9
DC2	2E7
DC3	2G9
DC4	2G7
E	10G3
F	10G3
G	10G5
H	10G5
JTAO	14A9
JTA1	14B9
JTBO	14B9
JTB1	14B9
KPCO	18E8
KPC1	18E7
ONO	17A8
ON1	17D8
ONBO	17A8
ONB1	17D6
ONGO	17A6
ONG1	17D6
PCGO	34F1
PCG1	34F3
R	27G7
RA	28G3, 28G6
RA1	28G3, 28G6
RB	28G3, 28G6
RB1	28G3, 28G6
RCTAO	14C9
RCTA1	14C9
RCTBO	14D9
RCTB1	14E9
RHMO	17B4
RHM1	17D4
RRAO	17G5
RRA1	17E5

REGISTER CKT (CONT)	
RRBO	17G5
RRB1	17E5
RTTO	18D8
RTT1	18E8
RVO	17H1
RV1	17H2
S	27G7
T	27G7
TO	5A5
T2	4C0
T3	4E0
T4	4H0
T5	4C3
T6	4E3
T7	4H3
T8	5D5
T9	5F5
TLOO	19B2
TLO1	19D3
TL10	19B2
TL11	19D3
TLAO	18D8
TLA1	18E8
TLDO	18D8
TLD1	18E8
TPCO	34G1
TPC1	34G3
TROO	19B2
TRO1	19D3
TR10	19B2
TR11	19D3
TTOO	36E1
TTO1	36A1
TT1	36B0
	36E0
UO	6D2
U1	6G2
U2	6D7
U3	6H7
U4	7D2
U5	7H2
U6	7D7
U7	7H7
U8	8D2
U9	8H2

MB & BY DISPL CKT.	
HM07	34H6
L3 BAT	20C6, 38B4
LB80-89	35E4
LD80-89	35F4
SO2	20B5, 38C3
S12	20C4, 38D3
SO3	20C4, 38F3
S13	20F4, 38F3
SO4	20F4, 38D8
S14	20H4, 38D8
SO5	20A9, 38F8
S15	20C9, 38F8
SO6	20C9, 39D3
S16	20F9, 39D3
SO7	20F9, 39G3
S17	20G9, 39G3
SO8	21A4, 39D8
S18	21C4, 39D8
SO9	21C4, 39G7
S19	21F4, 39G7
THM(0-5)	9G4

STATION DIAL TRANSFER CONTROLLER CKT	
RO2-RO9	27A0
R12-R19	27A0
RGB	18F6
RGC	18F7
SO2-SO9	27A0
S12-S19	27A0
SMO, SM1	24G7
SM2-SM9	24C2
SMTA	23F8
SMTB	23F8
TO2-TO9	27A0
T12-T19	27A0
TFA	11F8
TFB	11F6
TR8	8D3
TR9	8E3
TRA	11F8
TRB	11F6
TRT	4F8
TRO	2A1
TROA	2A1
TR1	2C1
TR1A	2C1

STATION DIAL TRANSFER TRUNK CKT	
CCC	16E0
DO	5F3
D8	5H3
D9	5G3
DB	8C7
DC	8C7
DE	8C6
DG	8C6
FF (E,O)	19D9
RLS (E,O)	19D9
RS (E,O)	19D9

STATION EQUIPMENT	
S	35H8
S1	35H8

STATION LINE	
R	1D2, 35B1
T	1B2, 35B1

TRAFFIC REGISTER CKT	
BAT	34G4
BTOF	34C8
BTPC	34C4
JOF	34E0
JPC	34D4
LOF	34B0
NCPC	34E4
OFO	34E0
OF8	34D0
OF9	34D0
OPC	34D4
OPC8	34F0
OPC9	34F0
ROF	34A0
STPC	34B4
TOPC	34A4
TPC	34G4
TPCO	34H0
TPC8	34G0
TPC9	34H0
TRPC	34F4

TWO-WAY TIE TRUNK CKT	
O	36H5
R1	35B8
R2	
S1	
S2	
T1	
T2	35B8

LINE OR TRUNK ACCESS CKT.	
R	1D2, 35B1
T	1B2, 35B1

MESSAGE REGISTER CKT	
M--	1D7 35G5

STATION MESSAGE REGISTER PULSE AND SURCHARGE CKT	
COD	16H1
MR1	9F7
MR2	9F7
MR3	17H5, 32G6
MR4	17H5, 32A1
MR5	26E4, 40D0
MR6	26B4, 40D0
MR7	16A1
MR8	16A0
MR9	16C1
MR10	16C0
MR11	16A0
MR12	16A0
MR13	16C0
MR14	16C0
RSA	19E4
RSB	19E3

INWARD RESTRICTION CKT.	
H(A-D)	19H6
HE, HF	9B0
IR2-7	19G4
RLS	19H4
S	1F5
SA	1F5
U(0-9)	19H4
2S	35G6
2SA	35G6

552A, 552B, 552D, 552E, 605A, 607A, 607B, 608A JACK CIRCUIT OR 608D JACK AND LAMP CIRCUIT	
R	1E1 35F1
S	1E1 35F1
SL	1E1 35F1
T	1E1 35F1

ISSUE
23D ZEN DHC ARM WPA
24D SAK KFJ GAP HW
25D SAK KFJ EWE
27D SAK GFH KAK
30D RUS GFH EWE
32D SAK RHP TEF
33D PJS RHP TEF
35D PJS RHP

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LINE, LINK, AND MARKER CIRCUIT (2) SD-65741-01-A6

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OPTION INDEX

APP OR WIRING	LOCATION
9	19E5, 19F5, 19G6 24A4, A5, B4, C4, C5, D4, D5, E4, E5, F4, F5, G4; 26A4, C4; 30F5, F6; 32G5, G6, H5
17	35F7
19	36C3, G4; 37D2, D3, B6 E6
20	36A-H4, E6, F6, G6
21	36E6, F6
22	9C4, 9D4, 19E5, 19E6, 19F5, 19F6, 19G5, 19G6, 24A4, A5, B4, B5, C4, D4, D5, E4, E5, F4, F5, G4; 26A2, A4, C2, C4; 30F5, F6; 32B4, B6, E2, E3, F2, F3, G6, H5
Z	1B3, C2; 35A3, A2
Y	APP FIG. 3, 1B3, D2, D3, E3, E4, F3; 31B6, 35A3, B2, B3, E2, E8, F2, G5, H2
X	1G3, 35A2
W	APP FIGS. 1, 2; 1G3; 35A2
V	APP FIGS. 2, 4, 14, SHEETS 2, 3, 4, 6, 7, 8, 18, 24, 31; 1D5, E5; 10G1, G3, G5, G7, G8; 11G1, G3, G5, G9; 17F8, G8; 34B1, E4
T	31F2, F3, G2, G3
S	1B5, C5, F6
R	1B5, C5, F6
Q	35E7
N	35E3
M	35G7
K	APP FIGS. 1, 2; 1D5; 3A3, C0, C3; 6C3, C8, F3, F8; 7C3, C8, F3, F8; 8C3, F3
H	35E3
G	APP FIGS. 1, 2; 1D5; 3A3, C0, C3; 6C3, C8, F3, F8; 7C3, C8, F3, F8; 8C3, F3
F	APP FIG. 2; 1D5; 3A6, C6; 6C3, C8, F3, F8; 7C3, C8, F3, F8; 8C3, F3
E	APP FIG. 2; 1D5; 3A6; C6; 6C3, C8, F3, F8; 7C3, C8, F3, F8; 8C3, F3
B	APP FIGS. 4, 7, 9, 10, 5H5, H6; 12C7; 16B2, B6, F2, F6; 25C1, D1, D3 D5, D8
A	APP FIGS. 4, 7, 9, 10; 5H5, H6; 12C7; 16B2; B6, F2, F6; 25C1, D1, D3, D5, D8
ZA	18E7

APP OR WIRING	LOCATION
ZB	35F6
ZC	35E6, 35F6
ZD	35A5, 35B6
ZE	35A5, B1, B5, B6, C1, G7, H8
ZF	35E3
ZG	35E3
ZH	25E1, 25E6
ZI	25E1, 25E6
ZJ	31B7, 31C2, 31D3, 31D4, 31F1, 31F2
ZK	31B7, 31C2, 31D3, 31D4, 31F1, 31G1
ZL	12D1, 12F4
ZM	12C1, 12D1, 12F4
ZN	APP FIG. 9, 22A0, 22A1, 22A3, 22B2, 22B3, 22C0, 22C1, 22C3, 22D2, 22D3, 22E1, 22E3, 22G6, 22G7, 22H1, 22H3, 23A2, 23B2, 26A2, 26C2, 32B6, 32B7, 32E2, 32F2, 32F3
ZO	APP FIG. 9, 22A0, 22A1, 22A2, 22A3, 22B2, 22B3, 22C0, 22C1, 22C3, 22D2, 22D3, 22E1, 22E3, 22G6, 22H2, 23A2, 23B2, 23B3, 23C3, 32B4, 32B6, 32E2, 32E3 32F2, 32F3
ZP	1D6, 35C5
ZQ	1D6, 35C5
ZR	APP FIGS. 1, 2, 1G3, 35A2
ZS	35E3

APP OR WIRING	LOCATION
ZT	APP FIG. 3, 1D1, 35E0
ZV	APP FIGS. 13, 14, 1A6, D6, E5; 35B5, B7, H5
ZW	APP FIG. 12, 1A6, D6, E5
ZX	APP FIGS. 13, 14, 1A6, B7, D6, E5; 35B5, B7, H5
ZY	APP FIG. 12, 1A6, B7, D6, E5
ZZ	APP FIGS. 12, 13
YA	APP FIGS. 12, 13
YB	12B3, 12F2, 19G7
YC	12B3, 12F2, 19G7, 28G4, 28G6
YD	1F7, 1F8, 35G7, 35H7
YE	10G0
YF	10G2
YG	APP FIG. 1
YH	35C7
YJ	APP FIG. 1, 35C6
YK	25E3, 25E8, 25G5, 25H5
YL	25E3, 25E8, 25G5, 25H5
YM	APP FIG. 4, 3F2, 3F3, 3F4, 3F5, 3F6, 3F7, 3F8

APP OR WIRING	LOCATION
YN	APP FIGS. 1, 6
YO	10G3
YP	10G5
YQ	19E1
YR	19D1, 19E1
YS	7A8, 34D6, 34F6
YT	6B3, 7A8, 19G2, 19F5, 34D5, 34D6, 34F6
YV	2A1, 2C0, 4F8, 8B3, 8E3, 11F6, 11F8, 18E6, 23F7 23G7
YW	2B1, 2D0, 11F6, 11F8, 18E6
YX	5F3, 5G3, 5H3, 8B6, 8B7, 8C7, 8C8
XA	APP FIG. 8, 16B3, 16C3, 16C4, 16B5, 16D1, 16D3, 16D4, 16F3, 16F5, 19D2, 19E2
XB	16B5, 16E5, 19E2, 19F5
XC	5D3, 35B3, 35B7, 35C3, 35D3, 35E6
XD	APP FIG. 1 5B3, 5D3, 35B3, 35B7, 35B8, 35E3 35E4, 35H5
XE	35H5
XF	22E5, 22E6
XG	9B5, 9D5, 10C0, 10C2, 10C4, 10C6, 10C8, 11C0, 11C2, 11C4, 11C6, 11C8, 20B2, 20B7, 20E2, 20E7, 20G2, 20G7, 21C3, 21F2
XH	9C4, 9D4, 10C0, 10C2, 10C4, 10C6, 10C8, 11C0, 11C2, 11C4, 11C6, 11C8, 20B2, 20B7, 20E2, 20E7, 20G1, 20G2, 20G7, 21C3, 21F0, 21F2
XJ	16B4, 16B5, 16E4, 16E5
XK	1E7, 9F7, 16B4, 16B5, 16E3, 16E4, 16E5, 16H1, 17H4, 19E3, 19E4, 26B4, 26D4, 35F5
XO	1F5, 9B0, 9C0, 35G6
XP	1F5, 6B2, 6B7, 6E2, 6E7, 7B2, 7B7, 7E2, 7E7, 35G6, 8B1, 8E1, 9B0, 12C2, 9C0, 12E2, 19H4
XQ	19G4

APP OR WIRING	LOCATION
XR	19G4
XU	2B7, 2C7
XV	APP FIG. 8, 9G8, 9G9, 2B7, 2C7
XW	APP FIG. 3, 1B2, 1B3, 1D2, 1D3, 1D4, 1E3, 1E4, 1G0, 1G2, 1H2, 35A3, B2, B3, E2, F2; 31A6
XX	APP FIG 3, 1B3, D2, D3, D4, E3, E4, 1G0, 1G2, 1H2, 31B6
XY	35D9
XZ	16D4
WA	16D4
WB	21E1, 21E2,
WC	19F5, 19F6, 19G5, 19G6, 21E1, 21E2
WD	12B3, 12G3
WE	5H5
WF	5H5, 7H3, 35H6, 36A2, 36A3, 36B3, 36C0, 36C3, 36D3, 36E2, 36E3, 36F3, 36G3, 36H3, 25E1, 25E6
WG	24A4-F4, 24G5-H5
WH	1B6, 35B6, 35C6
WI	35B6
WJ	18H5, 23D4, 40F0
WK	36D0
WL	19E3, 19E4
WM	19E1, 19D4, 19E3, 19E4
WN	35D8
WP	35E3, 35F3
WQ	35E3, 35F3
WR	9F3, 20A-H3, 20A-H9, 20B6, 21A-F4, 34H7, 35E4, 35F4, 38B4
WS	APP FIG. 8, 11, 9C7, 9C8, 9D7, 9D8, 15C2, 15D2, 16B3, 16B5, 16C4, 16G4, 16E3, 16E5, 32F5, 32G5
WT	APP FIGS. 7, 8, 11, 9C7, C8, D7, D8; 10C0, C2, C4, C6, C8; 11C0, C2, C4, C6, C8; 16B3, B5, C4, G4, E3, E5; 32A1, B1, D1, F5, F6, G5, G6; 33B4, B5, B8, 38A3, D0, 39B3, E5, G5
WU	16A4, A5, D3, D4, D5; 32A1, B1, G6; 40C0, D0
WV	1E7; 16A3, A4, A5, D3, D5, H1; 32A1, B1; 35F5; 40C0, D0
WW	APP. FIG. 6, 7, 9 & 22, 15E1, 15E2, 15F1, 15F2, 15G1, 15G2
WX	APP. FIG. 6, 7, 9, 22, 9B4, 9D4, 12A1, 12H1, 15E1, 15E2, 15F1, 15F2, 15G1, 15G2

APP OR WIRING	LOCATION
WY	APP FIG. 8, 6C1, 15H1, 26F7, 26F8, 26G8, 26H7
WZ	APP. FIG. 8, 6C1, 15G1, 15G2, 15H1, 15H2, 26F7, 26F8, 26G7, 26G8
VA	APP. FIG. 3, 1B3, 1D2, 1D3, 1D4, 1E1, 1E2, 1E3, 1E4, 1G0, 1G2, 1H2, 3A6, 35A3, 35B0, 35B2, 35B3, 35D8, 35E2, 35F1, 35F2, 35G5, 35H2
VB	APP. FIG. 3, 1B3, 1D2, 1D3, 1D4, 1E1, 1E2, 1E3, 1E4, 1G0, 1G2, 1H2, 31B6
VC	35B5, 35C5
VD	35B5, 35C5
VE	35D8
VF	35D7, 35E7
VG	APP. FIG. 1, 2, 4C0, 4C3, 4E0, 4F0, 4G0, 4H0, 31C0, 31D0, 31E0
VH	APP. FIG. 1, 2, 4B0, 4B3, 4C0, 4C3, 4D0, 4E0, 4G0, 4H0, 31B0, 31C0, 31D0
VI	APP. FIG. 2, 4E3, 4F3, 4G3, 4H3, 31F0
VJ	APP. FIG. 2, 4D3, 4D5, 4E3, 4G3, 4H3, 31E0, 31F0
VK	APP. FIG. 4, 3F2, 3F3, 3F4, 3F5, 3F6, 3F7, 3F8

DRAWING ISSUE	
SUPERSEDES ISS 29B	
30D	RJK PJS GFH
31D	PMC PJS RHP
32D	JJR SAK RHP
33D	FED PJS RHP
35D	FED PJS RHP
36B	ROZ PJS LDJ
37B	ROZ PJS LDJ
38D	ROZ PJS LDJ

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FS I
STATION LINE

TABLE I

RELAY CONTACT	ASSOCIATED S-LEAD DESIGNATION				
	TM3	TM4	TM5	TM6 (V)	TM7 (V)
1M	S30	S40	S50	S60	S70
2M	S31	S41	S51	S61	S71
3M	S32	S42	S52	S62	S72
4M	S33	S43	S53	S63	S73
5M	S34	S44	S54	S64	S74
7M	S35	S45	S55	S65	S75
9M	S36	S46	S56	S66	S76
10M	S37	S47	S57	S67	S77
11M	S38	S48	S58	S68	S78
12M	S39	S49	S59	S69	S79

SHEET NOTES:

1. RELAYS (AT) AND (ATA) ARE NORMALLY OPERATED EXCEPT DURING POWER FAILURES.
2. FOR Y OPTION, MON 2-7 AND CO 30-79 RELAYS ARE LOCATED AT THE SWITCHBOARD. FOR XW AND XX OPTIONS, MON A,B,C AND CO 30-79 RELAYS ARE LOCATED IN LINE CO UNIT IN APP. CAB. FR GROUND DESIGNATES SWITCHBOARD FRAME GROUND.

DRAWING ISSUE

1	R.C. M.K.	W.S.
2B	M.K. P.D.	W.S.
3B	J.P. P.D.	J.F.D
5D	R.C. C.W.D.	R.A.C.
8B	M.K. F.G.S.	W.S.A
9B	V.Z. M.S.	P.D.
12B	P.E. W.W.	P.O.B.
13D	R.C. L.R.E.	P.O.B.
16B	J.P.S. R.P. P.G.B.	H.O.
18A	R.T. A.S. P.D.	
21B	F.O. W.W.O. P.D.	
24D	W.P.R. SAK KFJ	H.W.S. H.W.
25D	W.P.R. SAK KFJ	
27D	EWE SAK GFH	P.M.T.
30D	DMG SAK GFH	
31D	PMC PJS RHP	
WORN DRAWING REPRODUCED WITHOUT CHANGE 11-28-66 TEF		
32D	EWE SAK RHP	
33D	FED P.J.S. RHP	
35D	FED P.J.S. RHP	
37B	ROZ RJS LDJ	

ALM TRANS AND TST CKT
TST LINE
R T

(ZW,ZY) LHM60-79
(ZV,ZX) LHM30-59
BL30-79 TO CORDLESS POSITION CKT
PROVIDED ON (ZY, ZX) ONLY
PROVIDED ON LINE 39 ONLY

TO STATION LINE OR LINE OR TRUNK ACCESS CIRCUIT

(Z) Y, XW,XX,VA,VB

TWO WAY C.O. TRUNK CKT

TO CENT. OFF.

ATA AT ATA AT

ALARM, TRANSFER & TEST CKT (SEE NOTE 1)

TO LINKS 27HO

FR GRD

(ZT) L30-79

(XX,VB) C060-79
(XW,VA) C030-59
(Y) C030-79

(XW,VA) MON A,B
(XX,VB) MON C
(Y) MON3-7
SEE TABLE A

(Y) C030-79 (SEE NOTE 2)

4RB P-3000 L3-7 -48
4RT

(ZW,ZY) LHM60-79
(ZV,ZX) LHM30-59
(E,F) L60-79
(G,K) L30-59
(XK, WV)

TO MESSAGE WAITING SERVICE KEY, INTERRUPTER AND POWER SUPPLY CIRCUIT

MESSAGE REG CKT
LINE

552A, 552B, 552D, 552E, 605A, 607A, 607B, 608A, JACK CIRCUIT, OR 608D JACK AND LAMP CIRCUIT

(VA,VB) (XW,XX) (XW) C030-59 (XX) C060-79

(Y) C030-79 2T AP

Y,XW,XX,VA,VB

(Y) MON2-7 (SEE NOTE 2)

TRPO,1
TP2-5
(V) TP6,7
RO,1

(XW,VA) MON A,B
(XX,VB) MON C

H (W,ZR) (X) SEE NOTE 302
STATION TENS GROUP 3-7
6D0, 6G0, 6D5, 6G5, 7D0, 7G0, 7D5, 7G5, 8D0, 8G0,

(XO) (XP) SA S IR(A-J) IN. RESTRICTION CKT

(R) SI S AT ALARM, TRANSFER & TEST CKT (SEE NOTE 1)

(YD)

DISCONNECT FOR UNASSIGNED STATION LINE

10G1, 10G3, 10G4, 10G6, 10G8, 11G1, 11G3, 11G4, 11G5, 11G9 (SEE TABLE 1)
STATION UNITS
STATION TENS GROUP 3-7

MB 2Y STATION EQUIP. 15E-3 IND OR EQUIV
MB 6017B OR EQUIV L KEY

TABLE A

CO-RELAY	(Y) MON 3-7 a	(XW,VA) (XX,VB) MON A,B MON C EVEN CO-TENS GRP. a	MON A,B MON C ODD CO-TENS GRP. a
CO-0	1	1	11
CO-1	2	2	12
CO-2	3	3	13
CO-3	4	4	14
CO-4	5	5	15
CO-5	6	6	16
CO-6	7	7	17
CO-7	8	8	18
CO-8	9	9	19
CO-9	10	10	20

REL DESIG	EQUIP LOC
L30-39	2L
L40-59	3L
L60-79	4L
MON 2-7	SEE NOTE 2
CO 30-79	

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LINE, LINK, AND MARKER CIRCUIT (2)
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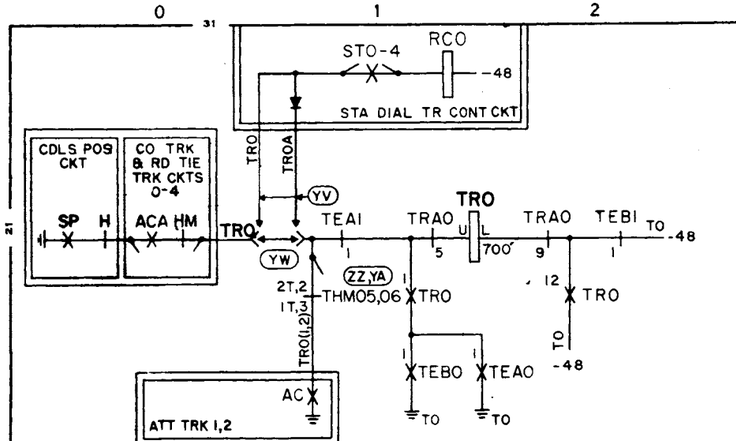
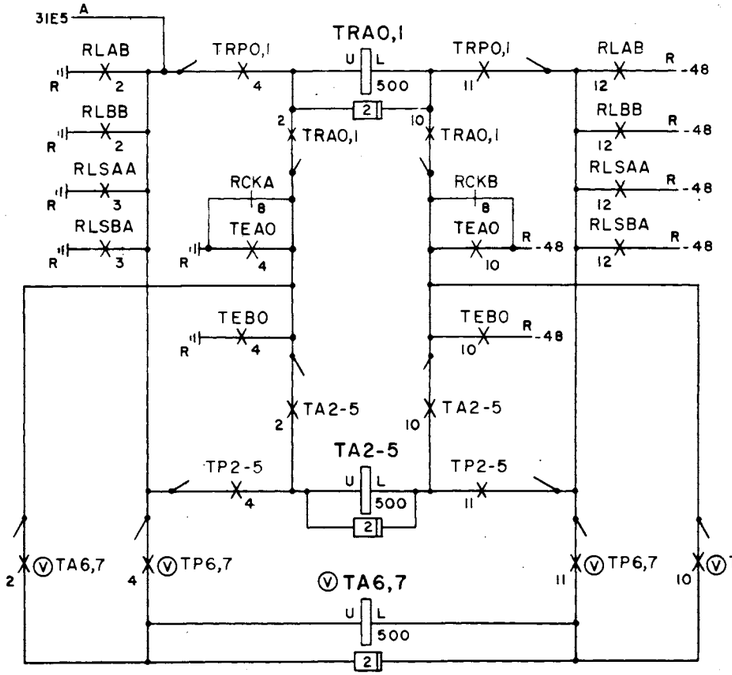
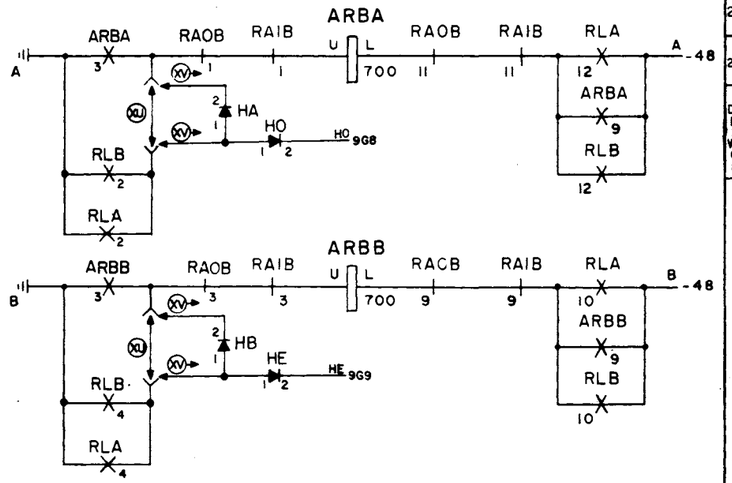
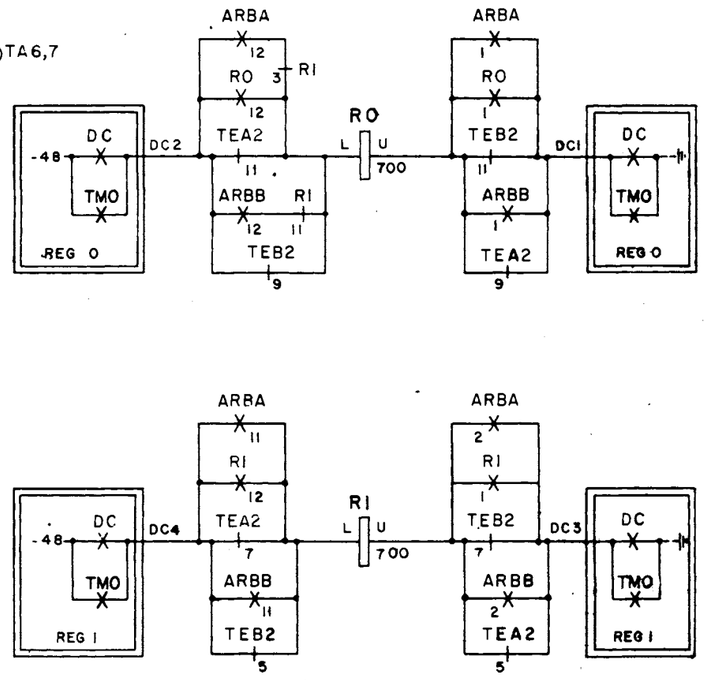
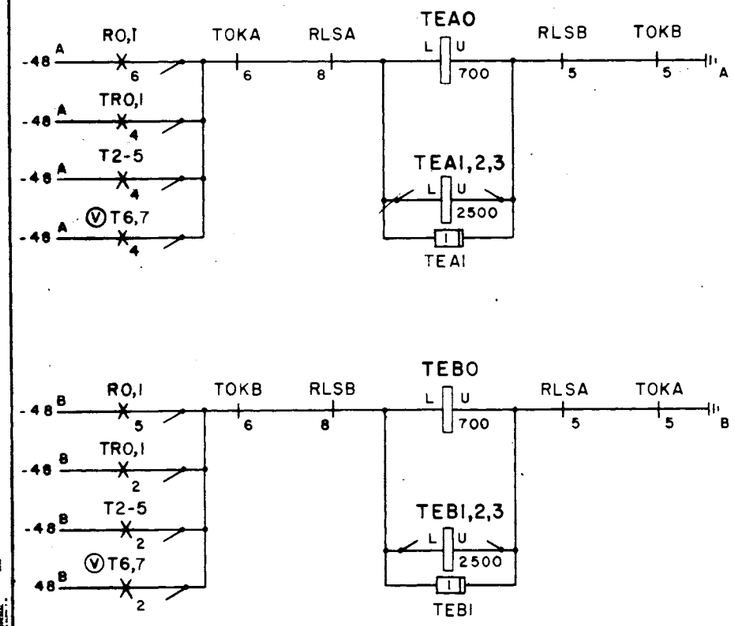
TENS SELECTION











REL DESIG	EQUIP LOC	REL DESIG	EQUIP LOC
ARBA	6AB	TEB3	6AA
ARBB	6AA	TOKA	6K
RO	6AA	TOKB	6J
RI	6AA	TP2-5	6Z
RAOB	6G	TP6,7	6Z
RAIB	6G	TRAO	6AB
RLA	6T	TRAI	6AB
RLAB	6T		
RLB	6S		
RLBB	6S		
RLSA	6K		
RLSAA	6K		
RLSB	6J		
RLSBA	6J		
T2-5	6AA		
T6,7	6AA		
TA2-5	6AB		
TA6,7	6AB		
TEAO	6AB		
TEAI	6AB		
TEA2	6AB		
TEBO	6AA		
TEBI	6AA		
TEB2	6AA		

DRAWING ISSUE

1	
2B	
7D	
11B	
16B	
23D	
26AC	

WORN DRAWING REPRODUCED WITHOUT CHANGE 8-27-65

PBX SYSTEMS
NO. 756A
LINE, LINK AND MARKER CIRCUIT

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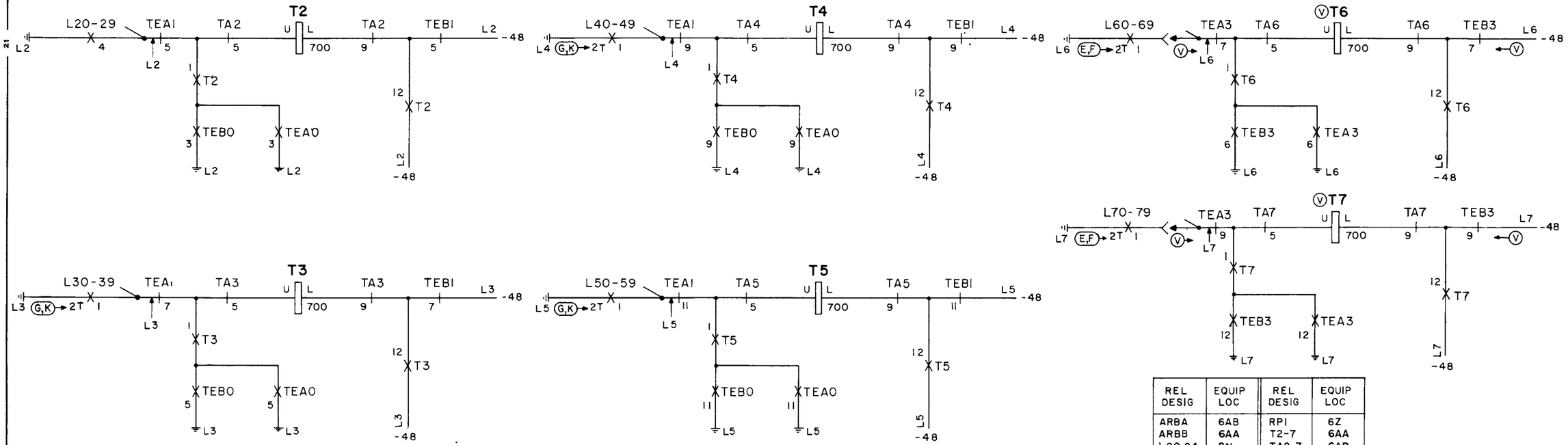
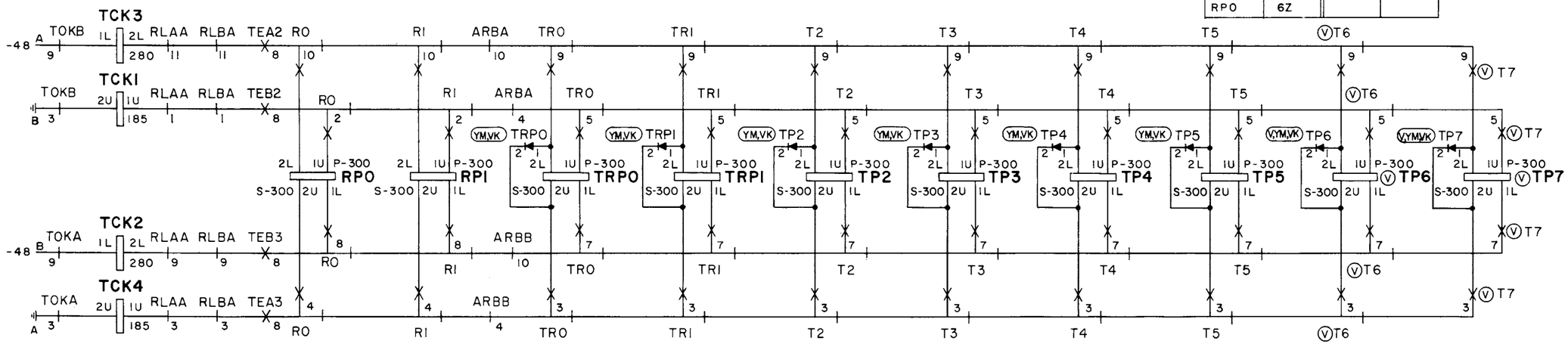
PART OF FS 2
TENS SELECTION



REL DESIG	EQUIP LOC	REL DESIG	EQUIP LOC
ARBA	6AB	RPI	6Z
ARBB	6AA	T2-7	6AA
L20-24	2N	TA2-7	6AB
L25-29	2P	TCKI-4	6Z
L30-39	2L	TEA0-3	6AB
L40-59	3L	TEB0-3	6AA
L60-79	4L	TP2-7	6Z
RO	6AA	TRO	6AB
RI	6AA	TRI	6AA
RLAA	6T	TRPO	6Z
RLBA	6S	TRPI	6Z
RPO	6Z		

FS 3
TENS PREFERENCE CHAIN



SHEET NOTES
A. LEAD DESIGNATIONS INDICATED BY ARROWS APPLY TO LEADS BETWEEN MARKER UNITS

DRAWING ISSUE		
1	AC AR	
2B	AM PD	
3B	LD PD	
5D	VCT CHD	
19B	EG WHH PD	
37B	ROZ PJS LDJ	HW

LINE, LINK AND MARKER CIRCUIT (2)

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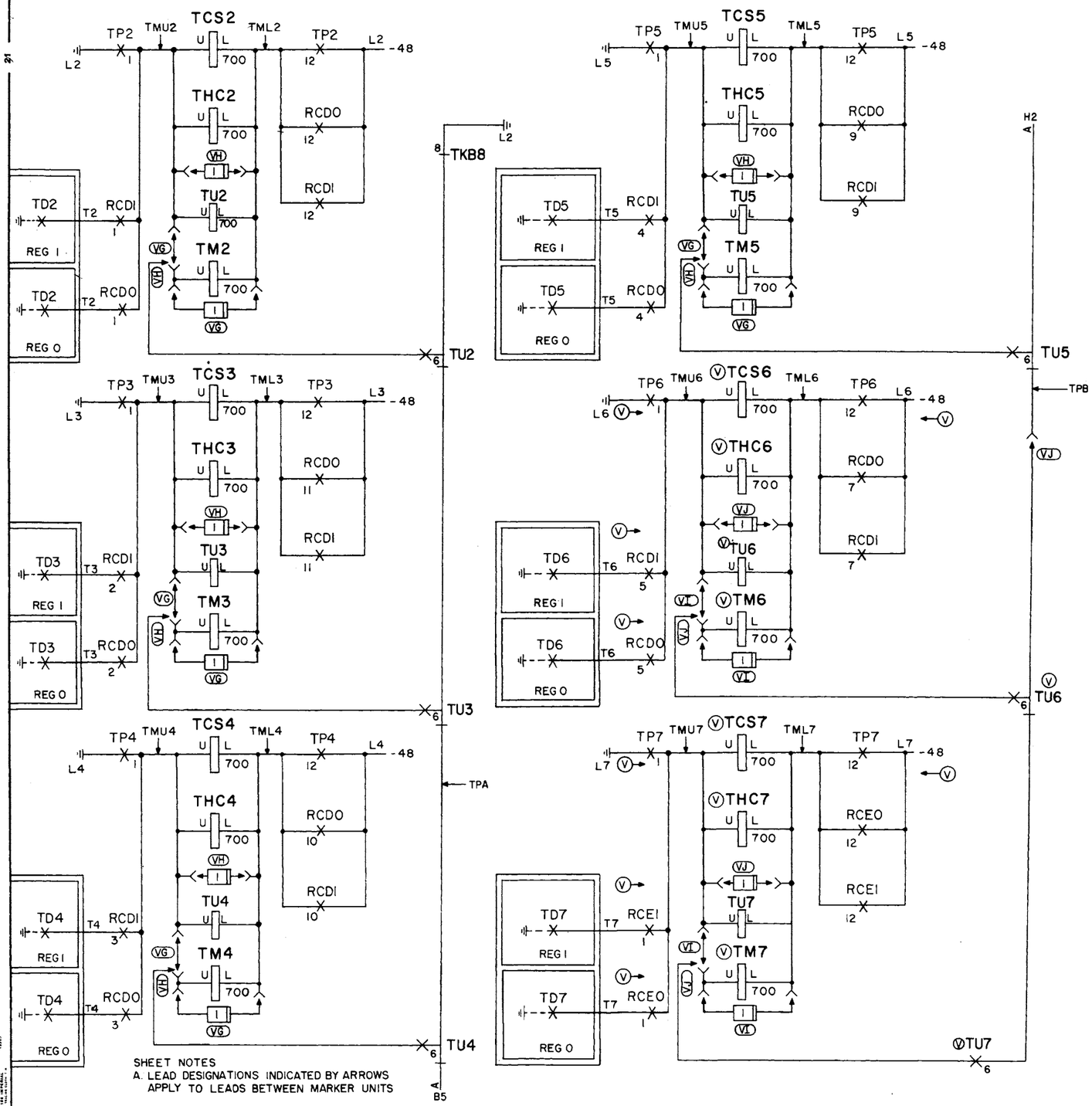
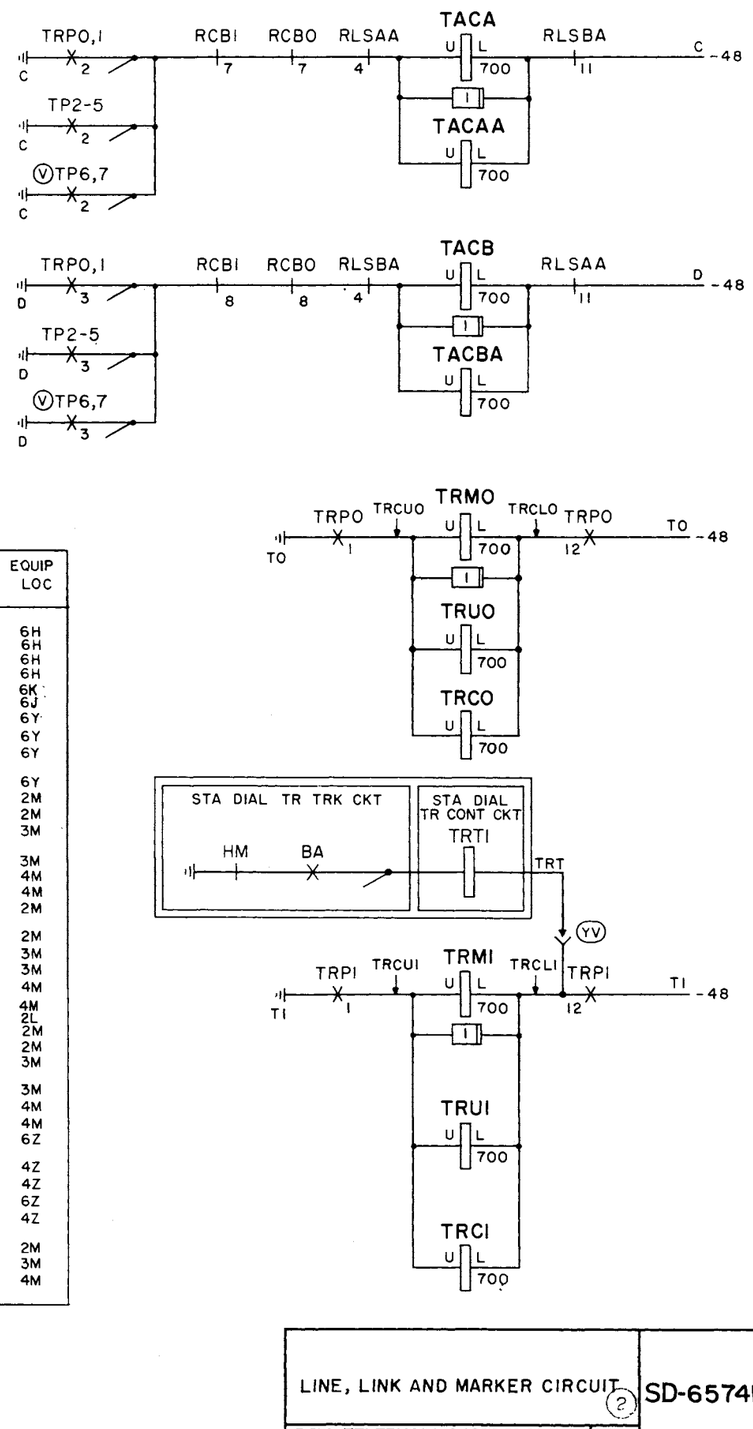
PART OF FS 4
TENS CONNECTOR



SHEET NOTES
A. LEAD DESIGNATIONS INDICATED BY ARROWS APPLY TO LEADS BETWEEN MARKER UNITS



REL DESIG	EQUIP LOC
RCBO	6H
RCBI	6H
RCDO,I	6H
RCEO,I	6H
RLSAA	6K
RLSBA	6J
TACA	6Y
TACAA	6Y
TACB	6Y
TACBA	6Y
TCS2	2M
TCS3	2M
TCS4	3M
TCS5	3M
TCS6	4M
TCS7	4M
THC2	2M
THC3	2M
THC4	3M
THC5	3M
THC6	4M
THC7	4M
TKB8	2L
TM2	2M
TM3	2M
TM4	3M
TM5	3M
TM6	4M
TM7	4M
TP2-7	6Z
TRCO,I	4Z
TRMO,I	4Z
TRPO,I	6Z
TRUO,I	4Z
TU2,3	2M
TU4,5	3M
TU6,7	4M

DRAWING ISSUE		
1	2C	MS
2B	4B	MS
3B	7D	LFD
23D	ZEN	
	DHC	
	ARM	
37B	ROZ	
	FJS	
	LDJ	

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LINE, LINK AND MARKER CIRCUIT (2)

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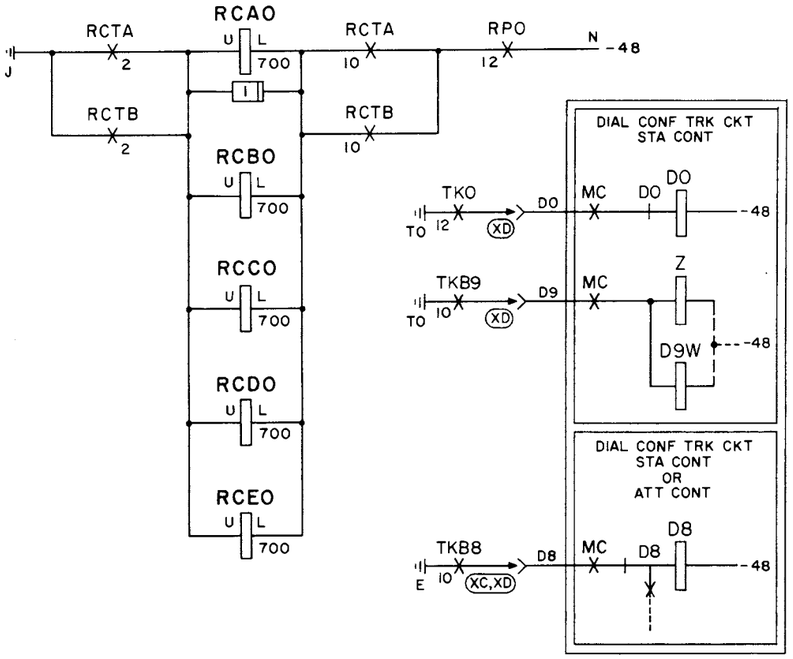
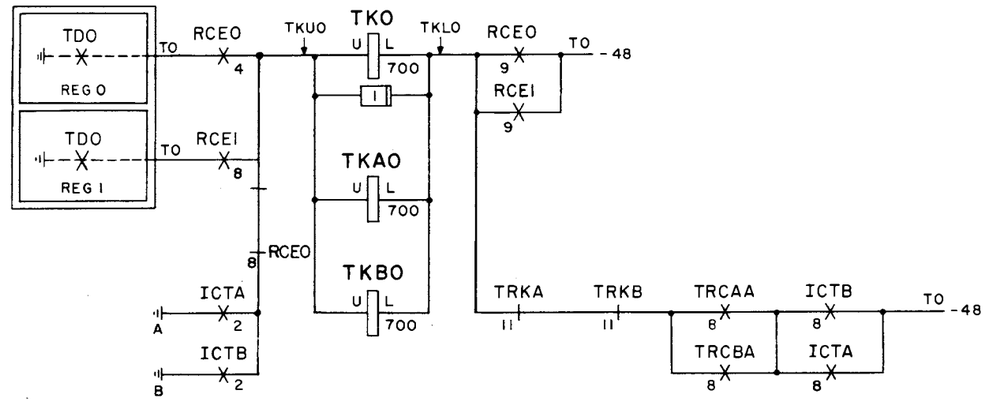
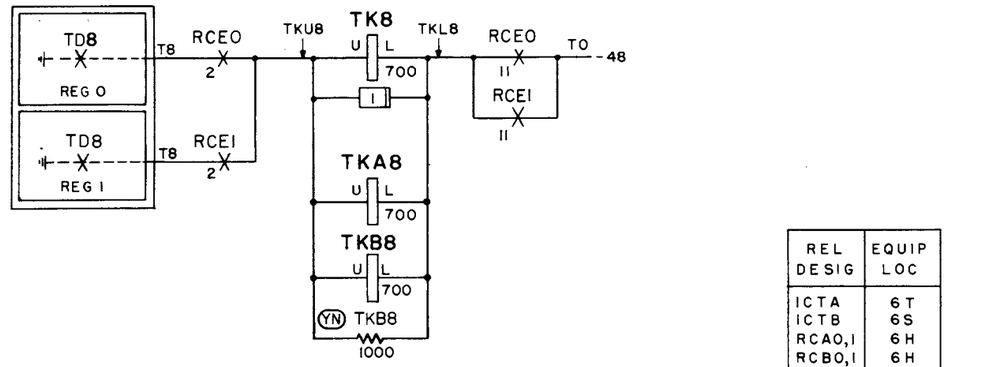
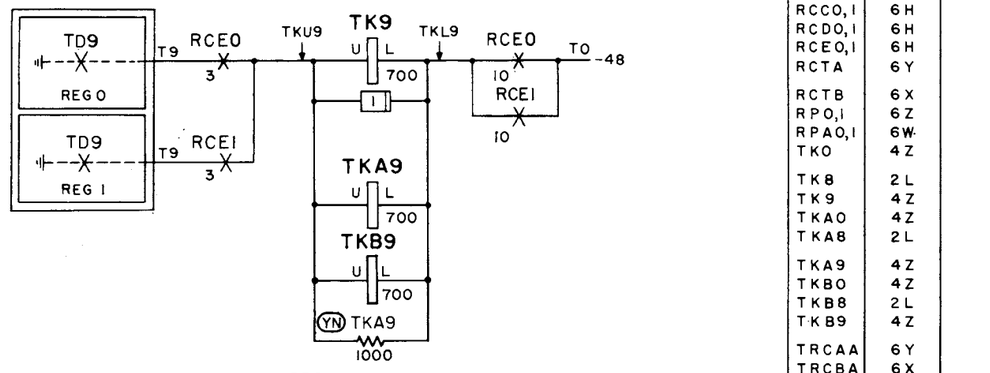
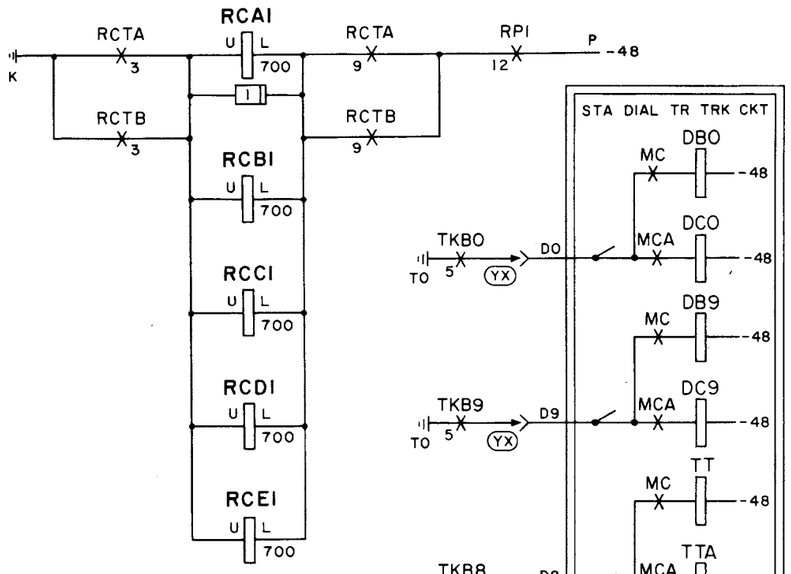
TENS CONNECTOR

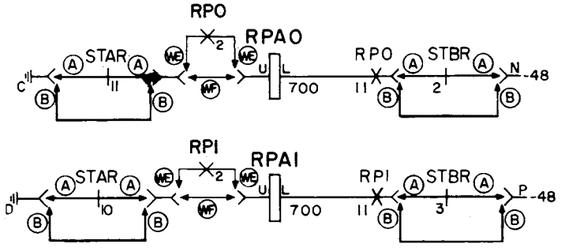












REL DESIG	EQUIP LOC
ICTA	6T
ICTB	6S
RCAO,I	6H
RCBO,I	6H
RCCO,I	6H
RCDO,I	6H
RCEO,I	6H
RCTA	6Y
RCTB	6X
RPO,I	6Z
RPAO,I	6W
TKO	4Z
TK8	2L
TK9	4Z
TKAO	4Z
TKA8	2L
TKA9	4Z
TKBO	4Z
TKB8	2L
TKB9	4Z
TRCAA	6Y
TRCBA	6X
TRKA	6Y
TRKB	6X

SHEET NOTES:
A. LEAD DESIGNATIONS INDICATED BY ARROWS APPLY TO LEADS BETWEEN MARKER UNITS

DRAWING ISSUE	
1	DC MR
2B	KK FG
8B	MG FGS BMG
20AC	WWH PD ZEN
23D	DHC AHM
30D	RAK PJS GFH

HW

20

30

LINE, LINK AND MARKER CIRCUIT

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6S

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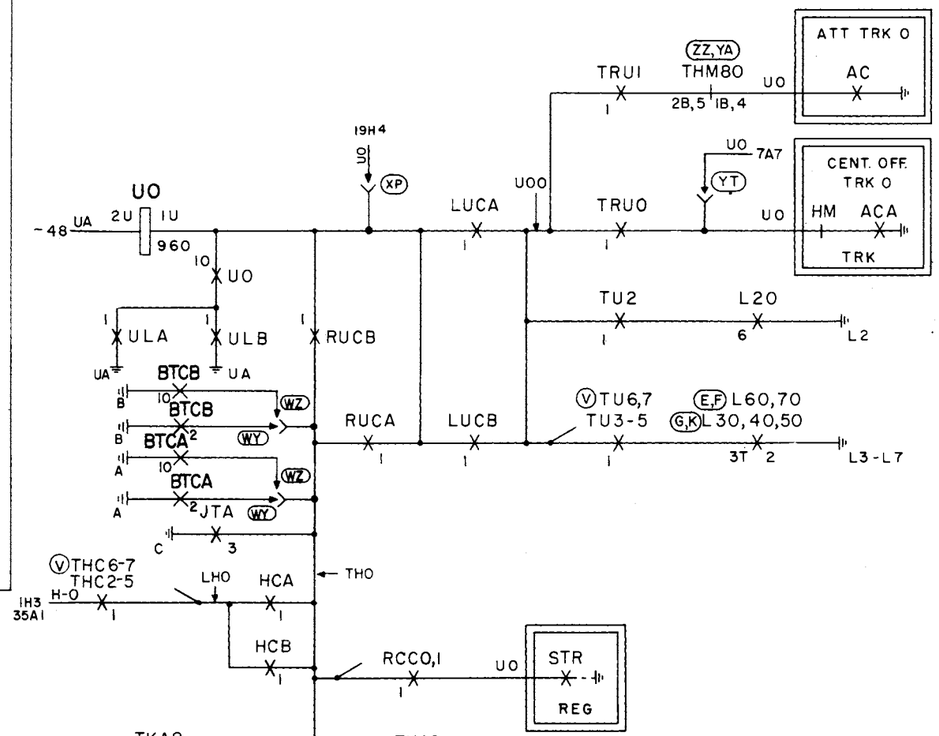
PART OF FS 5

UNITS SELECTION

REL DESIG	EQUIP LOC
BTCA	6T
BTCB	6S
HCA	6Y
HCB	6Y
ICTA	6T
ICTB	6S
JTA	6Y
L20-23	2N
L30-33	2L
L40-43	3L
L50-53	3L
L60-63	4L
L70-73	4L
LUCA	6V
LUCB	6U
RCCO,1	6H
RUCA	6V
RUCB	6U
THC2,3	2M
THC4,5	3M
THC6,7	4M
TKA0	4Z
TKA8	2L
TKA9	4Z
TRU0,1	4Z
TU2,3	2M
TU4,5	3M
TU6,7	4M
U0-3	6V
ULA	6V
ULB	6U



SHEET NOTES

A LEAD DESIGNATIONS INDICATED BY ARROWS APPLY TO LEADS BETWEEN MARKER UNITS

B. CONNECT TOGETHER ALL "H" PUNCHINGS ASSOCIATED WITH TRUNKS IN SAME GROUP.

DRAWING ISSUE	
1	
3B	
5D	
7D	
16B	
20AC	EG WVH PD
21B	F.O. WVH PD
23D	ZEN DHC WPA
25D	SAK KFJ ROZ
32D	RHB ROZ
36B	RJS LDJ

LINE, LINK AND MARKER CIRCUIT (2)

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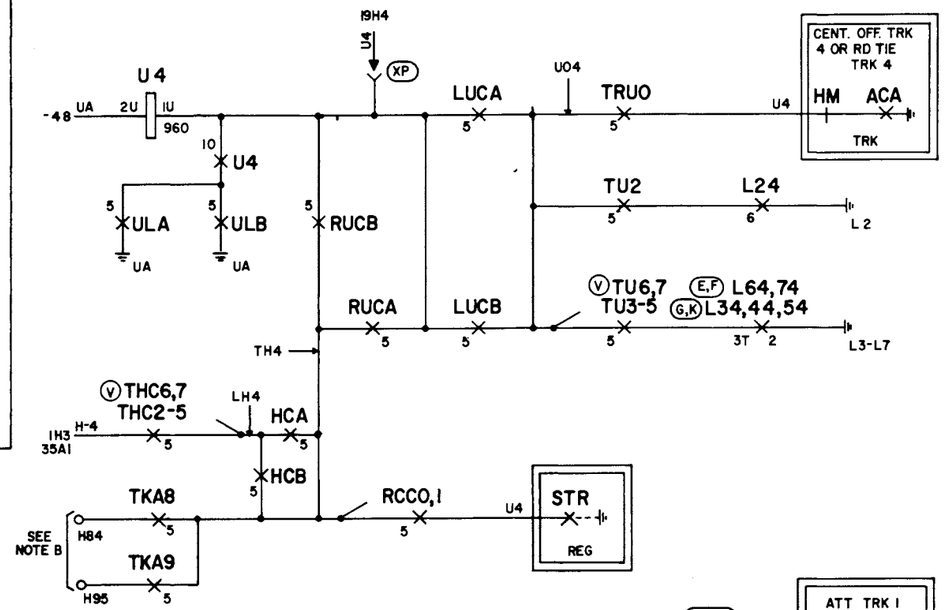
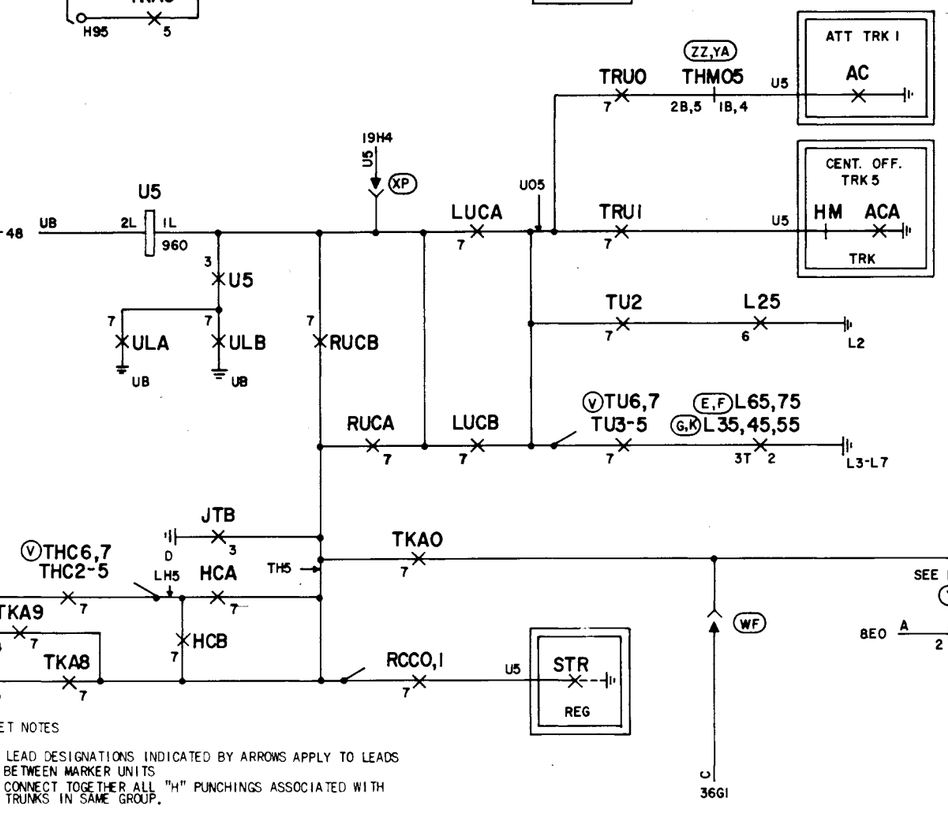
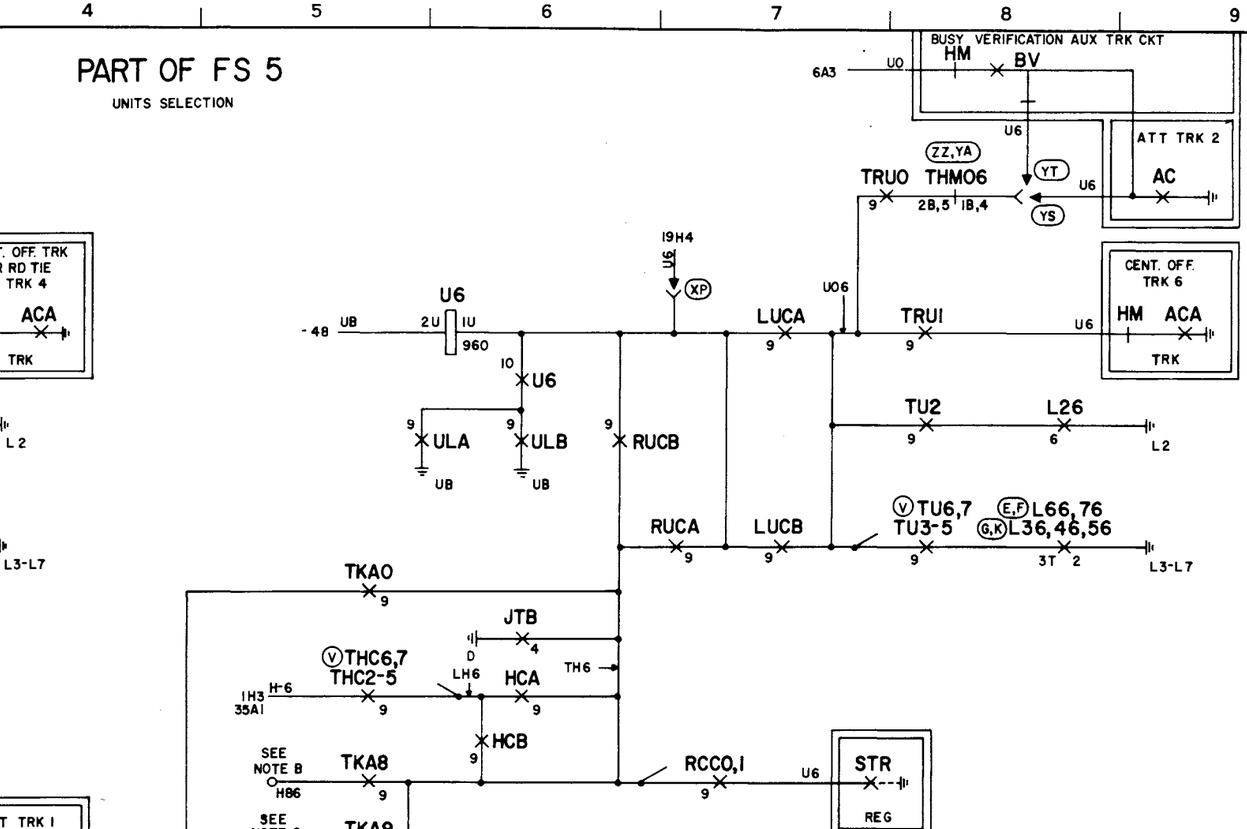
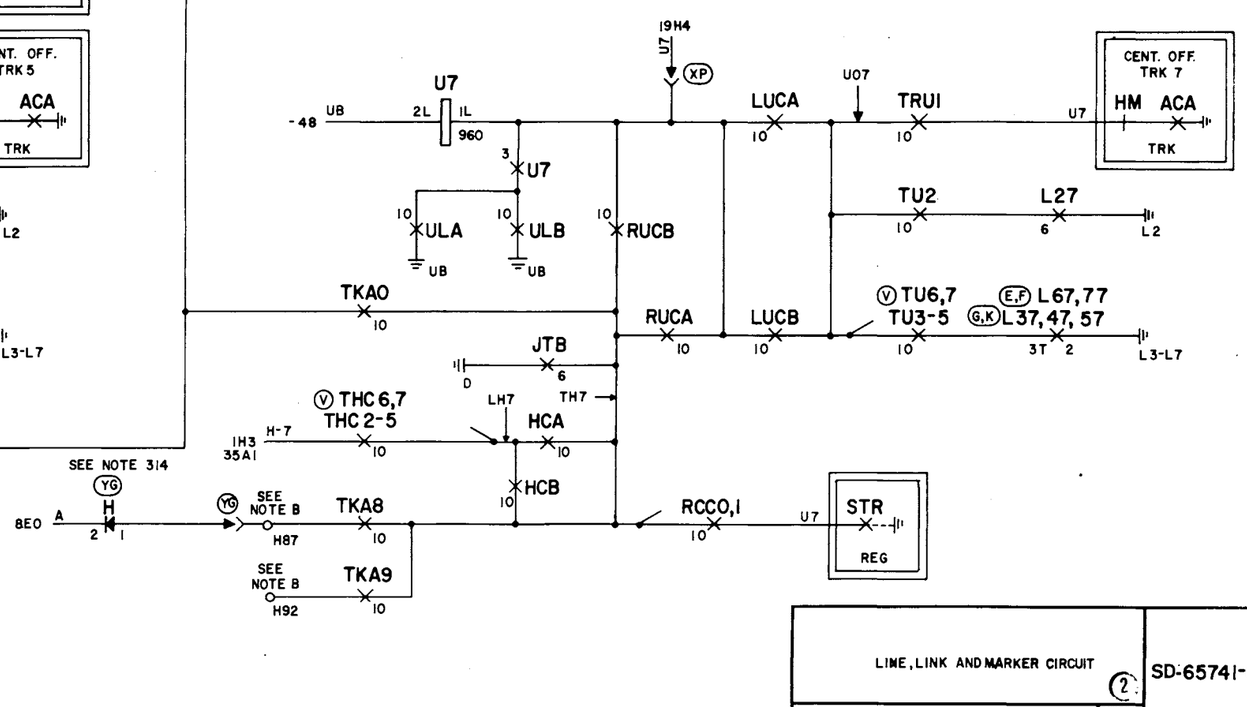
UNITS SELECTION

REL DESIG	EQUIP LOC
HCA	6Y
HCB	6Y
JTB	6X
L20-24	2N
L25-29	2P
L30-39	2L
L40-59	3L
L60-79	4L
LUCA	6V
LUCB	6U
RCCO,1	6H
RUCA	6V
RUCB	6U
THC2,3	2M
THC4,5	3M
THC6,7	4M
TKAO	4Z
TKA8	2L
TKA9	4Z
TRUO,1	4Z
TU2,3	2M
TU4,5	3M
TU6,7	4M
U4,5	6V
U6,7	6V
ULA	6V
ULB	6U









SHEET NOTES

A. LEAD DESIGNATIONS INDICATED BY ARROWS APPLY TO LEADS BETWEEN MARKER UNITS
B. CONNECT TOGETHER ALL "H" PUNCHINGS ASSOCIATED WITH TRUNKS IN SAME GROUP.

DRAWING ISSUE

1	PCD MR	WS
3B	LD PD	J.F.D.
5D	AD CHD	RAC
7D	BUS BAT	TEB
16B	TOS HP POB	A
20C	EG WH PD	HO
21B	FO WH PD	HO
23D	ZEN DHC ARM	HO
25D	WPR SAM KF	HW
30D	DWG SAM GFH	B HW
WORN DRAWING REPRODUCED WITHOUT CHANGE 10-11-66 C.E.D.		
32D	ROZ SAK NFF	C

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LINE, LINK AND MARKER CIRCUIT

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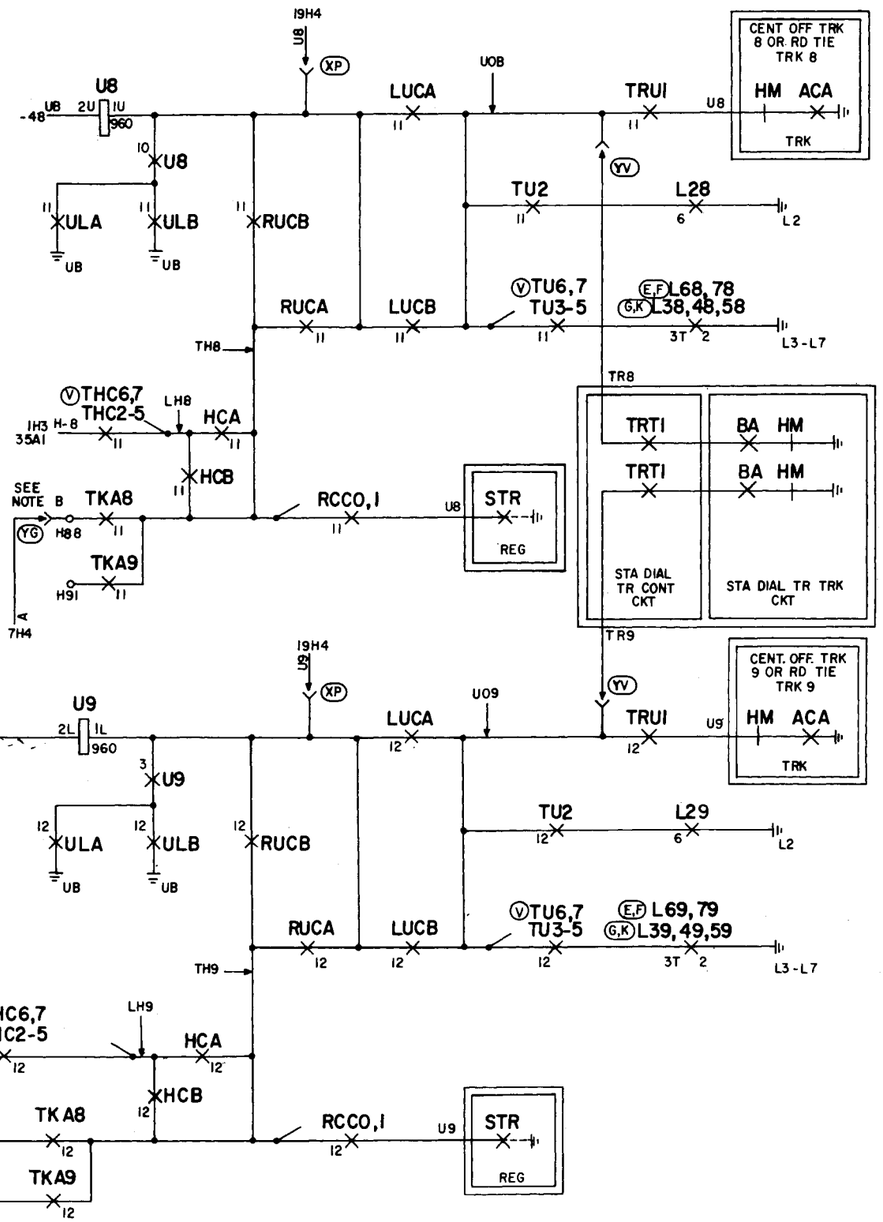
PART OF FS 5

UNITS SELECTION

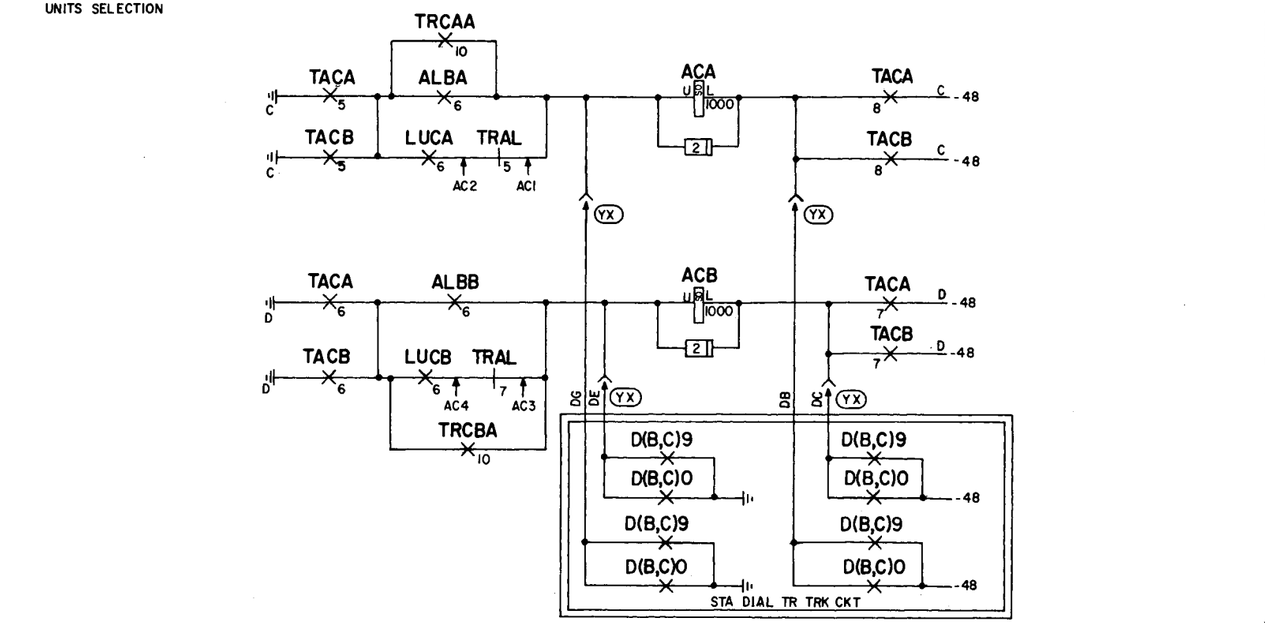
REL DESIG	EQUIP LOC
ACA	6V
ACB	6U
ALBA	6P
ALBB	6P
HCA	6Y
HCB	6Y
LUCA	6V
LUCB	6U
L28,29	2P
L38,39	2L
L48,49	3L
L58,59	3L
RCCO,1	6H
RPAO	6W
RPAI	6W
RUCA	6V
RUCB	6U
SEA	6V
SEB	6U
TACA	6Y
TACB	6Y
TEA3	6AB
TEB3	6AA
THC2,3	2M
THC4,5	3M
THC6,7	4M
TKA8	2L
TKA9	4Z
TRAL	IAA
TRCAA	6Y
TRCBA	6X
TRUI	4Z
TU2,3	2M
TU4,5	3M
TU6,7	4M
UO-5	6V
U6-9	6U
UEA	6V
UEB	6U
ULA	6V
ULB	6U



SHEET NOTES:

A. LEAD DESIGNATIONS INDICATED BY ARROWS APPLY TO LEADS BETWEEN MARKER UNITS.

B. CONNECT TOGETHER ALL "H" PUNCHINGS ASSOCIATED WITH TRUNKS IN SAME GROUP.



DRAWING ISSUE

1	PC MR	NY WS
3B	JO PD	JFD
5D	HD CHD	RAC
7D	RJS BAT	TEB
20AC	EG WVH PD	A HO
23D	ZEN DHC ARM	HW
25D	WPA SAK KFJ	B
32D	ROZ SAK RHP	
WORN DRAWING REPRODUCED WITHOUT CHANGE 2-8-68 BMM		L.D.J.
37B	ROZ PJS LDJ	C

D

E

F

G

H

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LINE, LINK AND MARKER CIRCUIT (2)

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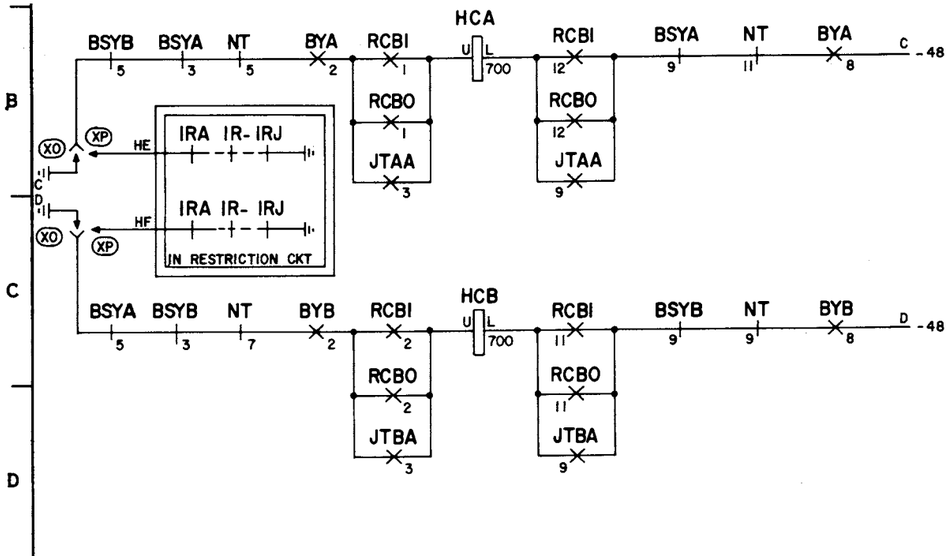
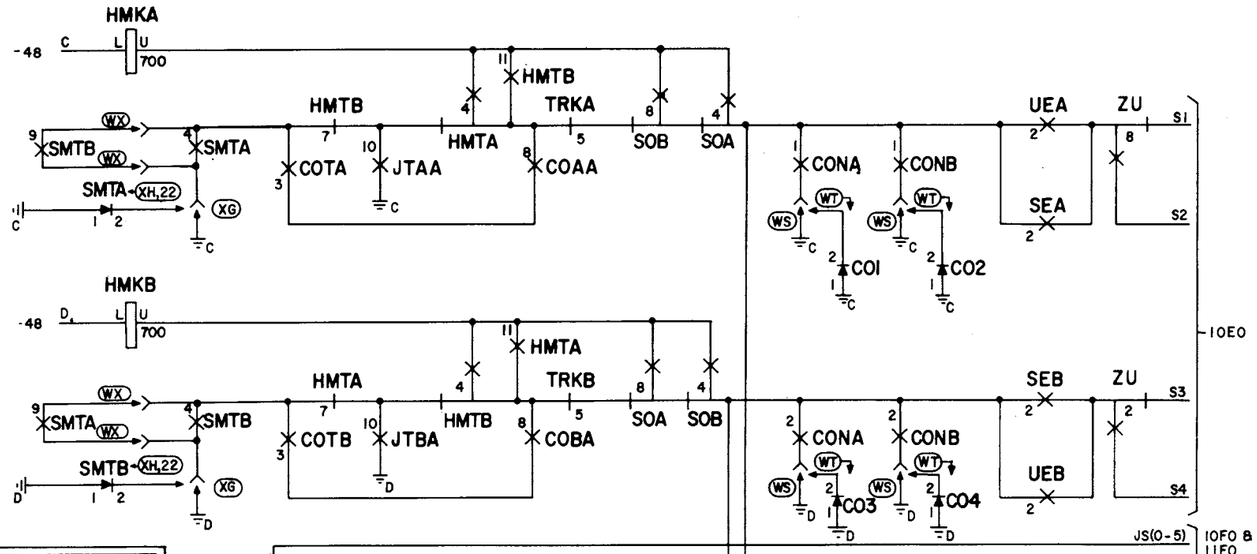
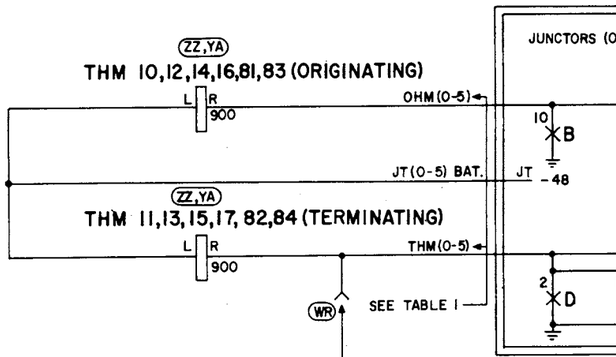
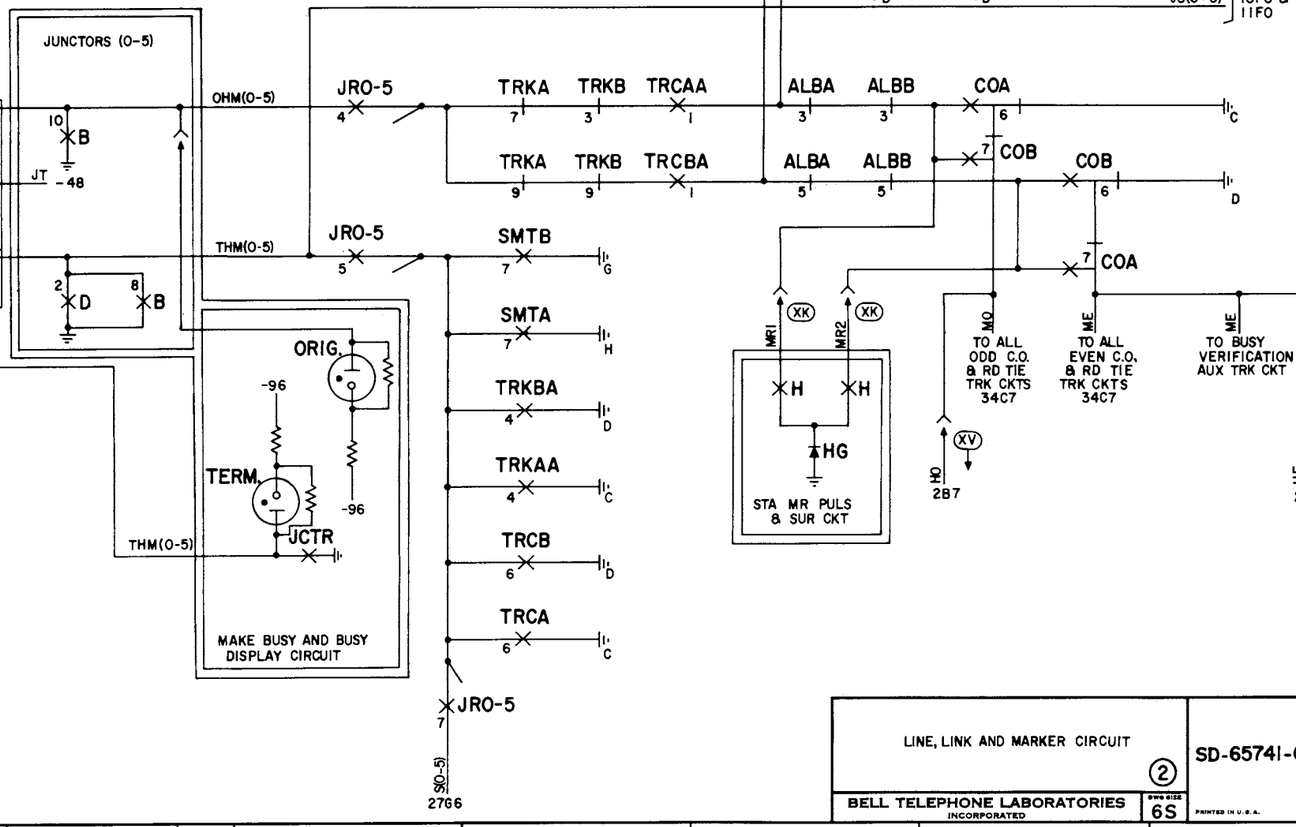
LINE AND TRUNK HUNTING









REL DESIG	EQUIP LOC	REL DESIG	EQUIP LOC
ALBA	6P	J RO-5	6X
ALBB	6P	J TAA	6Y
BSYA	6V	J TBA	6X
BSYB	6U	NT	6L,M
BYA	6V	RCBO,I	6H
BYB	6U	SEA	6V
COA	6T	SEB	6U
COB	6S	SMTA	6Q
		SMTB	6Q
COAA	6R	SOA	6R
COBA	6R	SOB	6R
CONA	6T	TRCA	6Y
CONB	6S	TRCAA	6Y
		TRCB	6X
COTA	6T	TRCBA	6X
COTB	6S	TRKA	6Y
HCA	6Y	TRKAA	6Y
HCB	6Y	TRKB	6X
HMKA	6V	TRKBA	6X
HMKB	6U	UEA	6V
HMTA	6T	UEB	6U
HMTB	6S	ZU	6L,M

TABLE I

JUNCTOR	ASSOC THM--	ASSOC LEADS
0	THM 10	OHM 0
	THM 11	THM 0
1	THM 12	OHM 1
	THM 13	THM 1
2	THM 14	OHM 2
	THM 15	THM 2
3	THM 81	OHM 3
	THM 82	THM 3
4	THM 83	OHM 4
	THM 84	THM 4
5	THM 16	OHM 5
	THM 17	THM 5

DRAWING ISSUE

1	PCD BA MR	WS
2B	ET PO	WS
4A	AID CHD CLD	RAC
11B	QUC LRE	A POB
16B	JOS HP POB	
23D	ZEN DHC ARM	HO HW 9
24D	WPA SAK KFJ	HW
25D	WPA SAK KFJ	B
26AC	GAP SAK KFJ	
31D	PMC PJS RHP	
32D	EWE SAK RHP	
33D	FED PJS RHP	C
35D	FED PJS RHP	
	WORN DRAWING REPRODUCED WITHOUT CHANGE 2-12-68 K.A.R.	L.P.J.
36B	TROZ PJS LDJ	D

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LINE, LINK AND MARKER CIRCUIT (2)

SD-65741-01-B9

BELL TELEPHONE LABORATORIES INCORPORATED

6S

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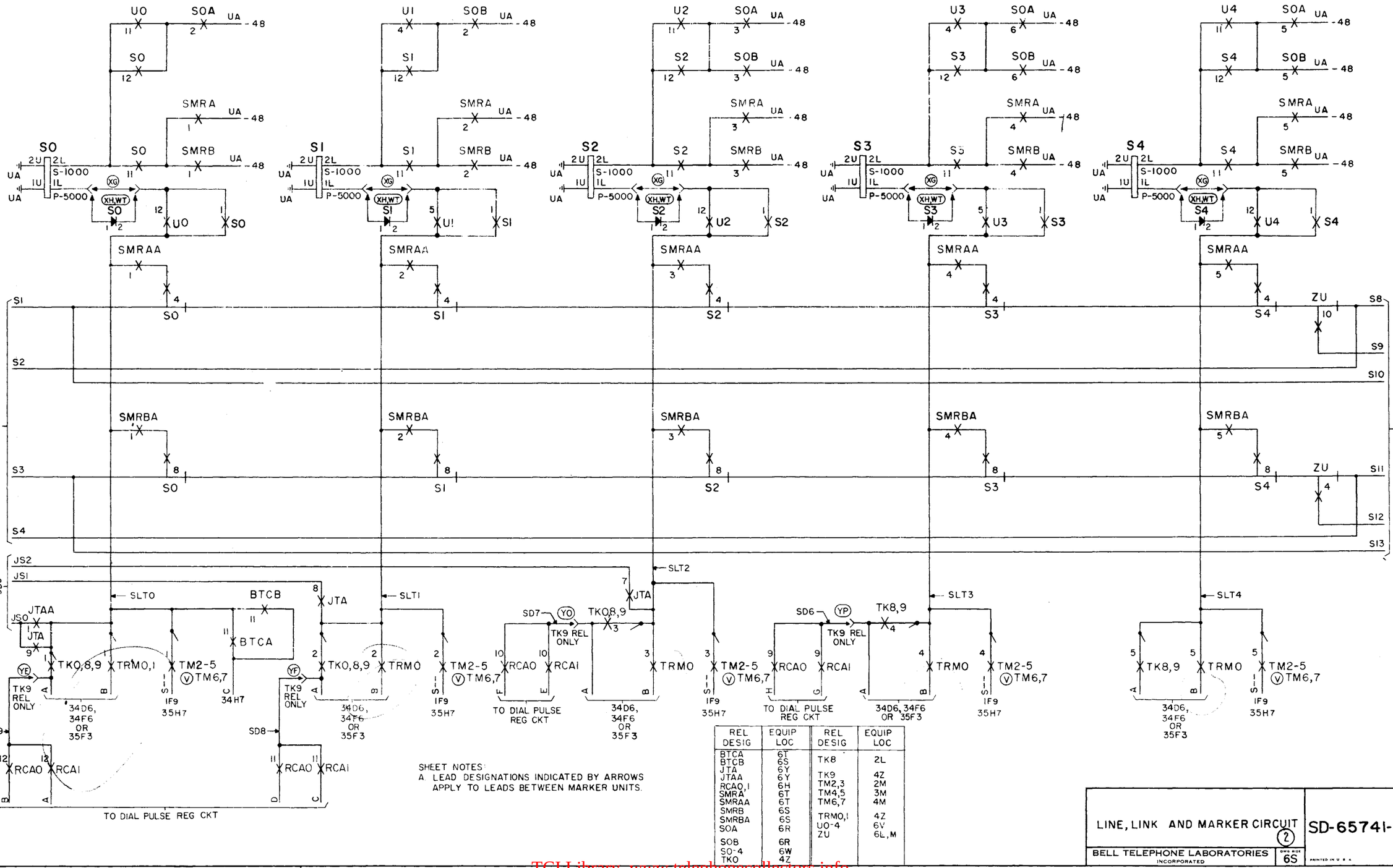
PART OF FS 6
LINE AND TRUNK HUNTING



REL DESIG	EQUIP LOC	REL DESIG	EQUIP LOC
BTCA	6T	TK8	2L
BTCB	6S		
JTA	6Y	TK9	4Z
JTAA	6Y	TM2,3	2M
RCAO,I	6H	TM4,5	3M
SMRA	6T	TM6,7	4M
SMRAA	6T		
SMRB	6S	TRMO,I	4Z
SMRBA	6S	UO-4	6V
SOA	6R	ZU	6L,M
SOB	6R		
SO-4	6W		
TKO	4Z		

SHEET NOTES:
A LEAD DESIGNATIONS INDICATED BY ARROWS APPLY TO LEADS BETWEEN MARKER UNITS.

DRAWING ISSUE		
1	RCD ME	WS
2B	EPF PD	HS
4A	SD WKO	RA.
11B	EAT EHE	P.D.
16B	WOS W.F. 608	
19B	EG WVH PD	HC
24D	GAP SAK KFJ	
28D	ENG SAK RHP	
33D	FED FJS RHP	

LINE, LINK AND MARKER CIRCUIT (2)

BELL TELEPHONE LABORATORIES INCORPORATED — 6S

SD-65741-01-BIO

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SD-65741-01-BIO

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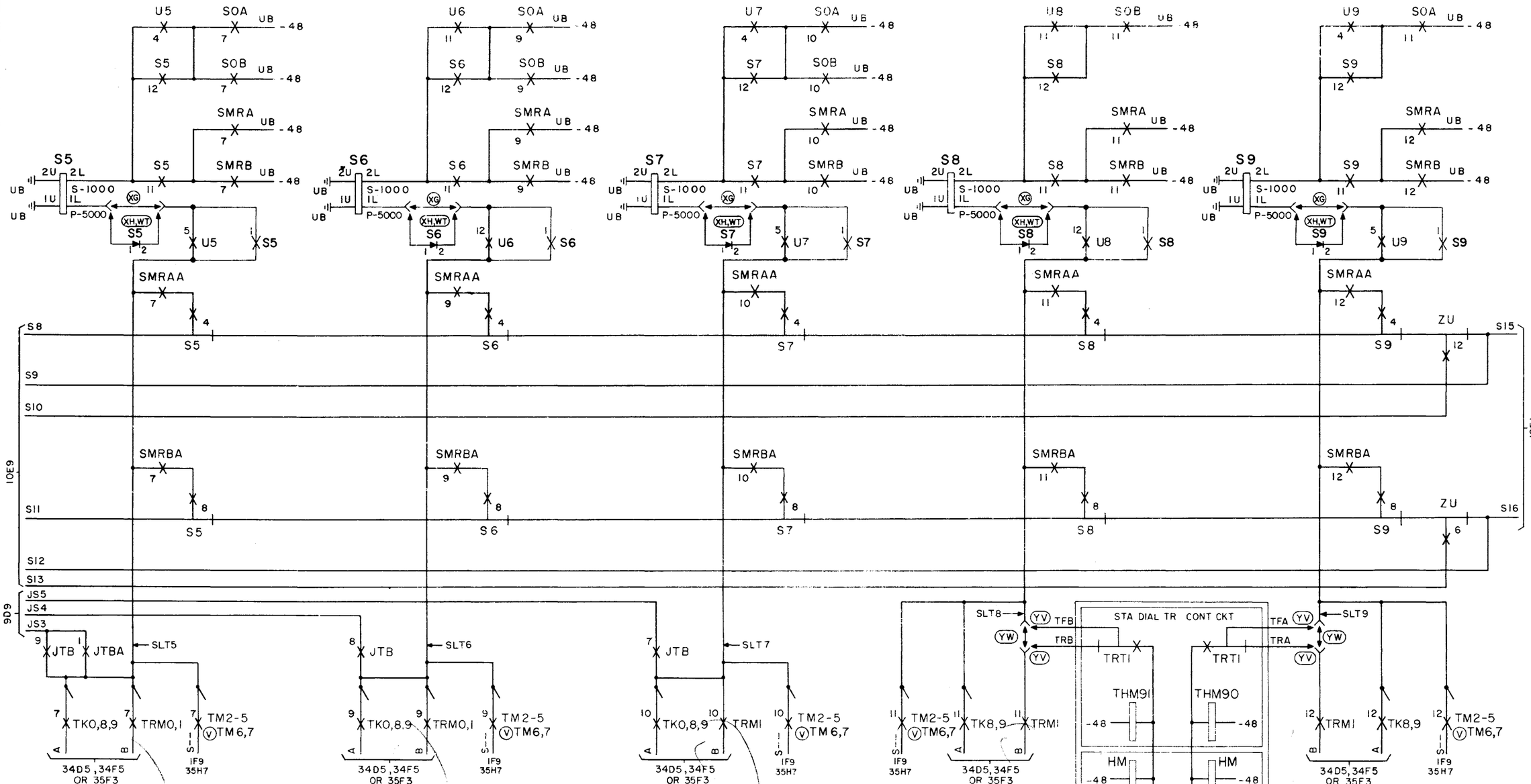
PART OF FS 6

LINE AND TRUNK HUNTING



REL DESIG	EQUIP LOC	REL DESIG	EQUIP LOC
JTB	6X	TK0	4Z
JTBA	6X	TK8	2L
SMRA	6T	TK9	4Z
SMRAA	6T	TM2,3	2M
SMRB	6S	TM4,5	3M
SMRBA	6S	TM6,7	4M
SOA	6R	TRM0,1	4Z
SOB	6R	U6-9	6U
S5-9	6W	ZU	6L,M

SHEET NOTES
A. LEAD DESIGNATIONS INDICATED BY ARROWS APPLY TO LEADS BETWEEN MARKER UNITS

DRAWING ISSUE	
1	
2B	
3B	
4A	
11B	
23D	
24D	
32D	
33D	

LINE, LINK AND MARKER CIRCUIT (2)

SD-65741-01-B11

BELL TELEPHONE LABORATORIES INCORPORATED

DWG SIZE 6S

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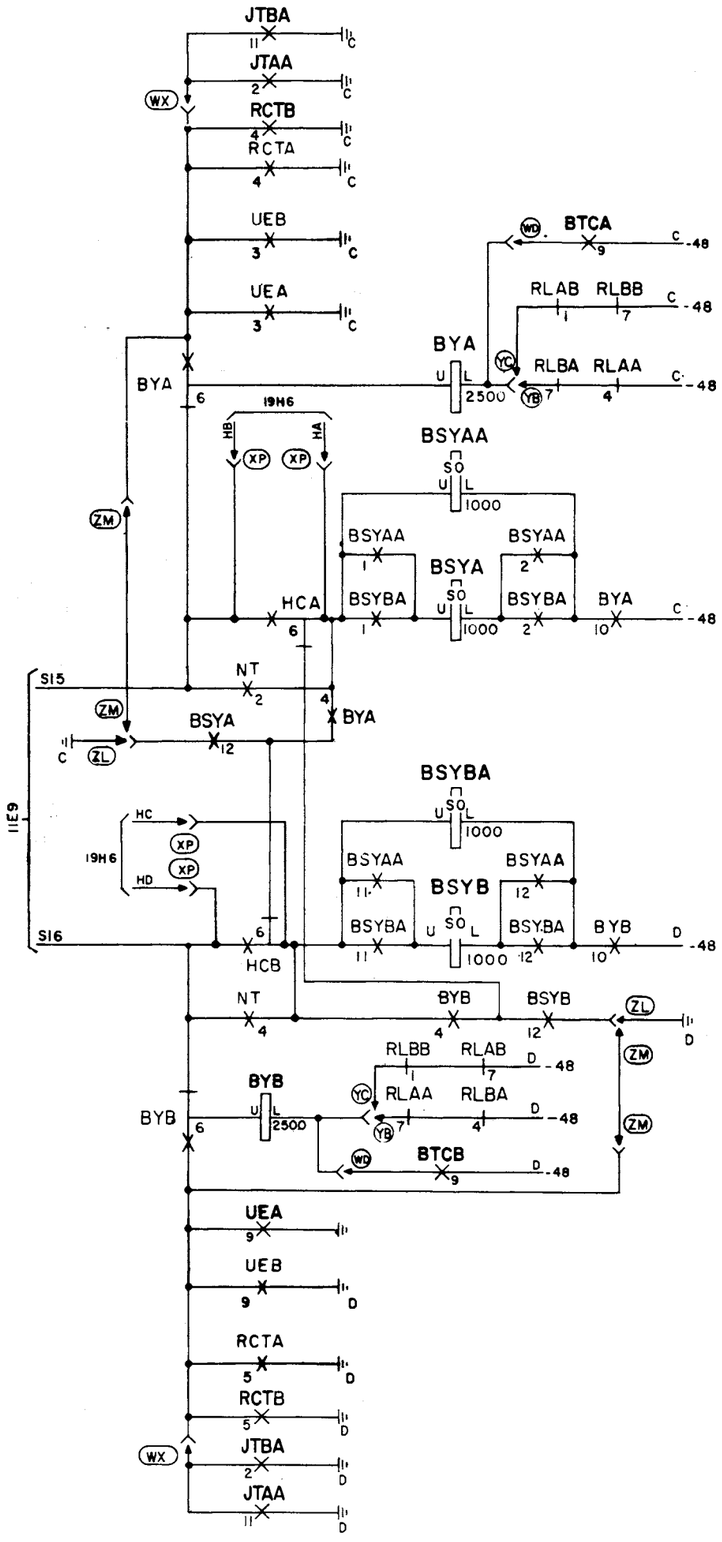
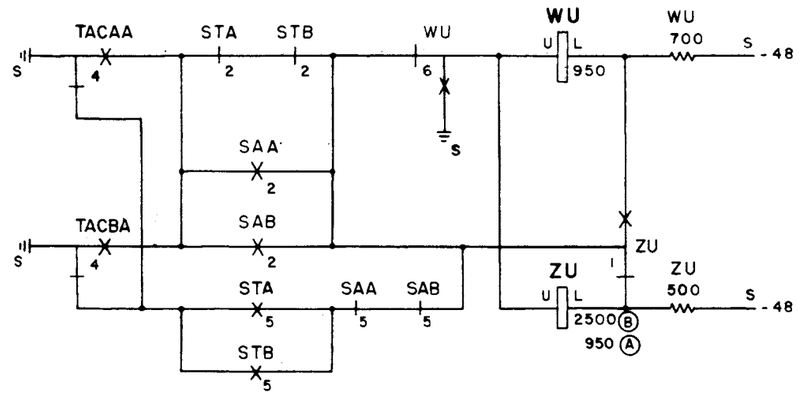
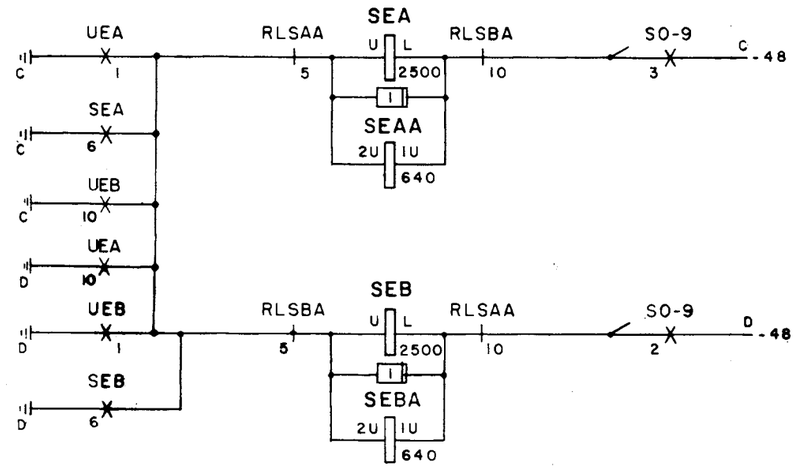
PART OF FS 6

LINE AND TRUNK HUNTING







REL DESIG	EQUIP LOC
BSYA	6V
BSYAA	6V
BSYB	6U
BSYBA	6U
BTCA,B	6T,S
BYA	6V
BYB	6U
HCA	6Y
HCB	6Y
JTAA	6Y
JTBA	6X
NT	6L,M
RCTA	6Y
RCTB	6X
RLAA	6T
RLBA	6S
RLSAA	6K
RLSBA	6J
SAA	6K
SAB	6J
SEA	6V
SEAA	6V
SEB	6U
SEBA	6U
STA	6K
STB	6J
SO-9	6W
TEAI	6AB
TEBI	6AA
UEA	6V
UEB	6U
WU	6L,M
ZU	6L,M

DRAWING ISSUE		
1	PCC ALL INC.	
2B	PCC FEB	#3
4A	PCC CHG	#2 C
8B	M.R. FEB	#4
12B	PTC WM	O. A
16B	JAN PCC	B. HO
25D	WPA SAK KFJ	HW
WORN DRAWING REPRODUCED WITHOUT CHANGE 1-16-66		
29B	WPA FJS GFH	
33D	FED FJS RHP	PMH
36B	ROZ PJS LDJ	

SD-65741-01-B12

LINE, LINK, AND MARKER CIRCUIT (2)

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SD-65741-01-B12

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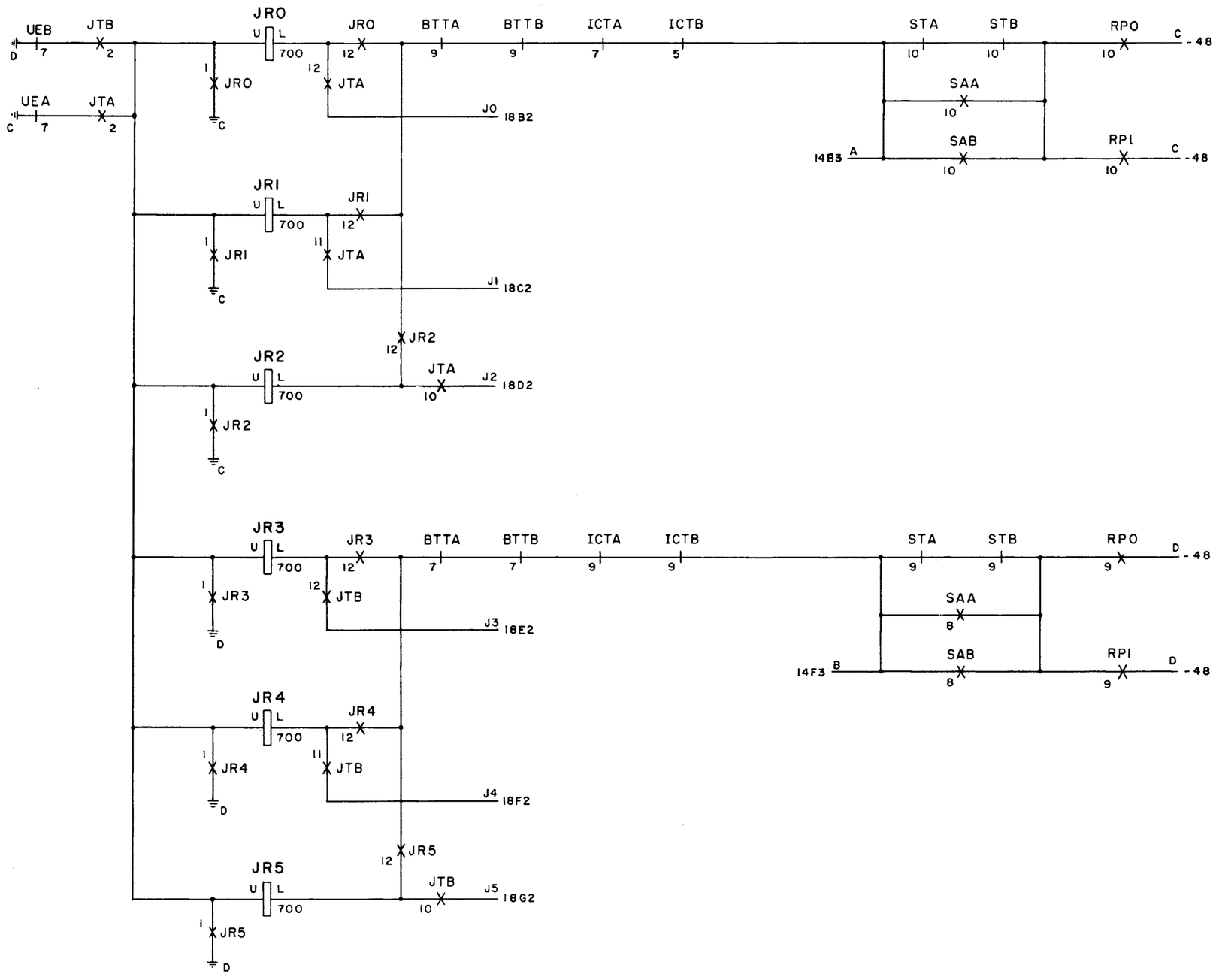
FS 7

JUNCTOR REGISTER RELAYS



REL DESIG	EQUIP LOC
BTTA	6T
BTTB	6S
ICTA	6T
ICTB	6S
JRO-5	6X
JREA	6Y
JREB	6X
JTA	6Y
JTB	6X
RPO,I	6Z
SAA	6K
SAB	6J
STA	6K
STB	6J
UEA	6V
UEB	6U

DRAWING ISSUE

1	2.1 2.2 2.4
2B	F6.3
3B	2.2 2.5

NO. 756A
LINE, LINK AND MARKER CIRCUIT

SD-65741-01-B13

BELL TELEPHONE LABORATORIES INCORPORATED

DWG SIZE 6S

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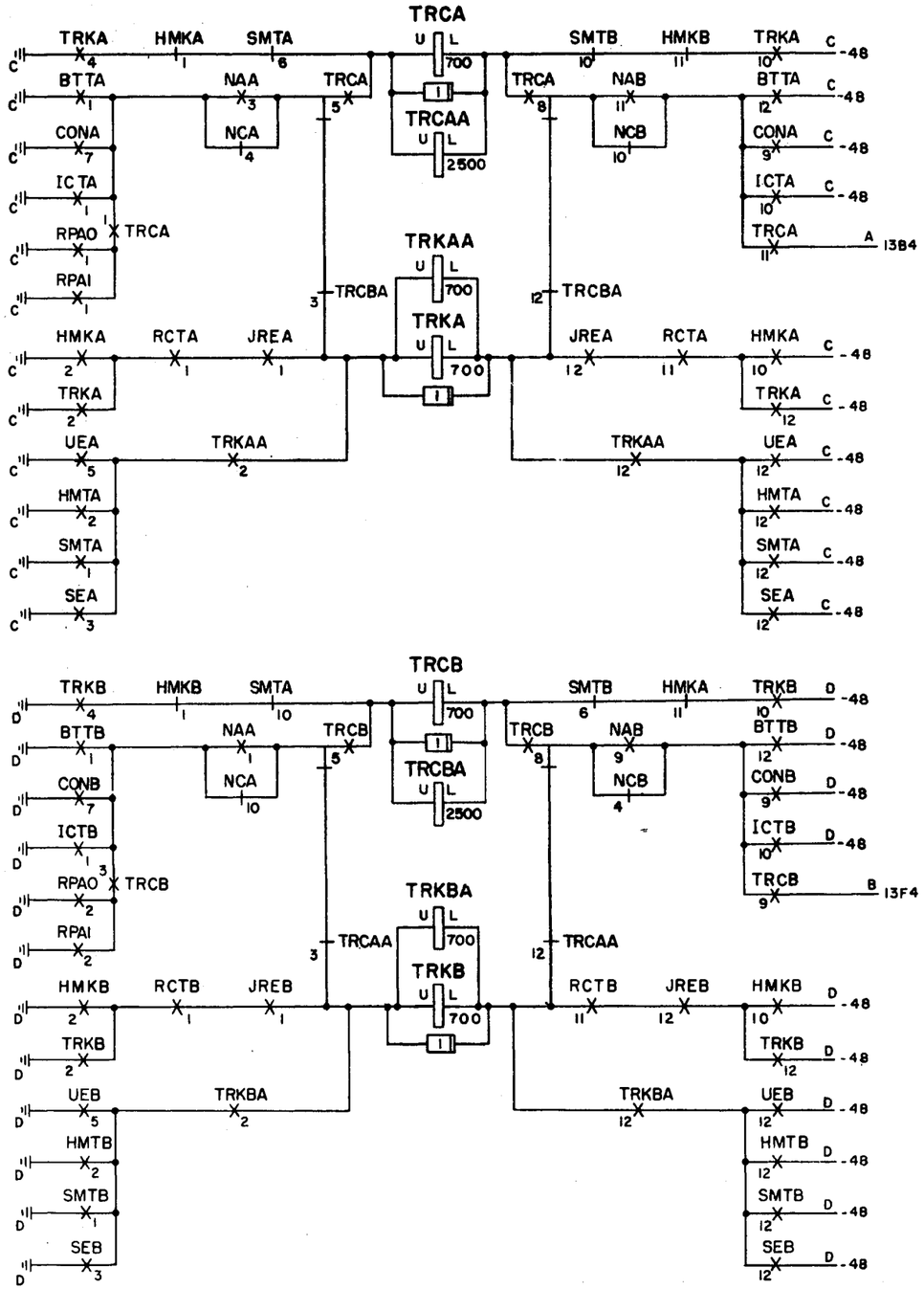
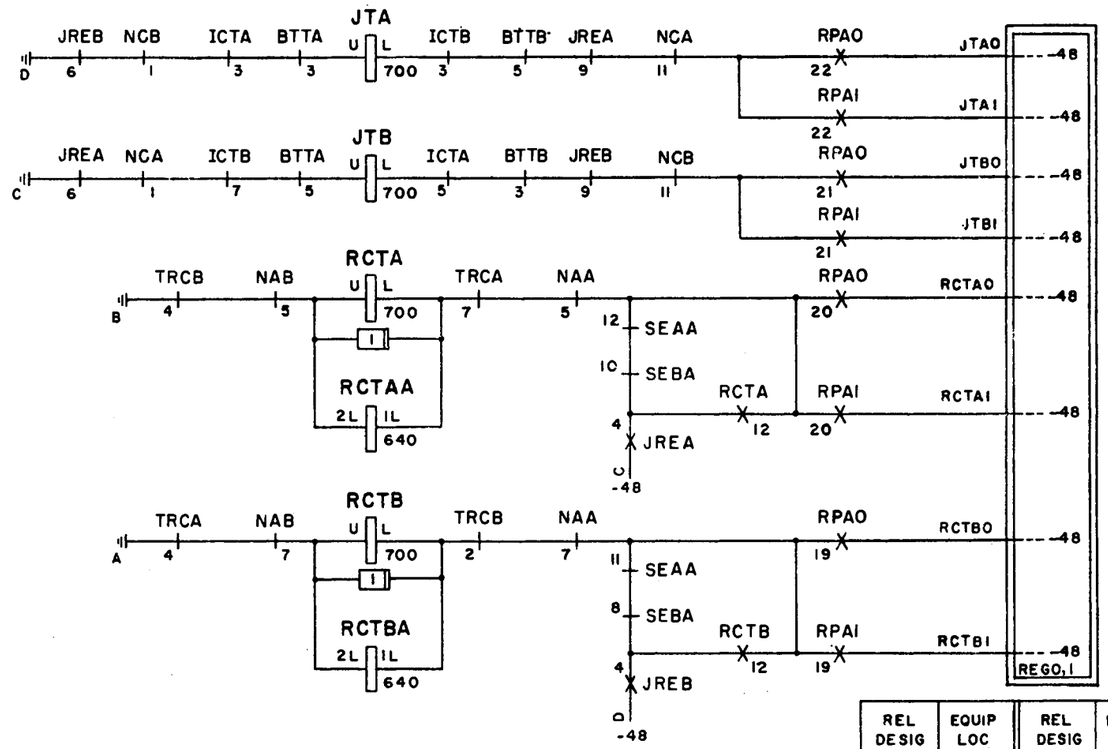
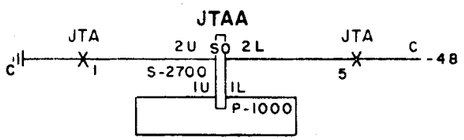
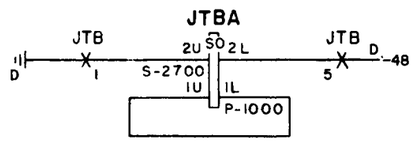
FS 8

SEQUENCE CONTROL









REL DESIG	EQUIP LOC	REL DESIG	EQUIP LOC
BTTA	6T	RPAO,I	6W
BTTB	6S	SEA	6V
COA	6T	SEAA	6V
COB	6S	SEB	6U
CONA	6T		
CONB	6S	SEBA	6U
HMKA	6V	SMTA	6Q
HMKB	6U	SMTB	6Q
HMTA	6T	TRCA	6Y
HMTB	6S		
ICTA	6T	TRCAA	6Y
ICTB	6S	TRCB	6X
JREA	6Y	TRCBA	6X
JREB	6X	TRKA	6Y
JTA	6Y	TRKAA	6Y
JTAA	6Y	TRKB	6X
JTB	6X	TRKBA	6X
JTBA	6X	UEA	6V
NAA	6K	UEB	6U
NAB	6J		
NCA	6K		
NCB	6J		
RCTA	6Y		
RCTAA	6V		
RCTB	6X		
RCTBA	6U		

NO. 756A
LINE, LINK AND MARKER CIRCUIT

SD-65741-01-B14

BELL TELEPHONE LABORATORIES INCORPORATED

6S

SD-65741-01-B14

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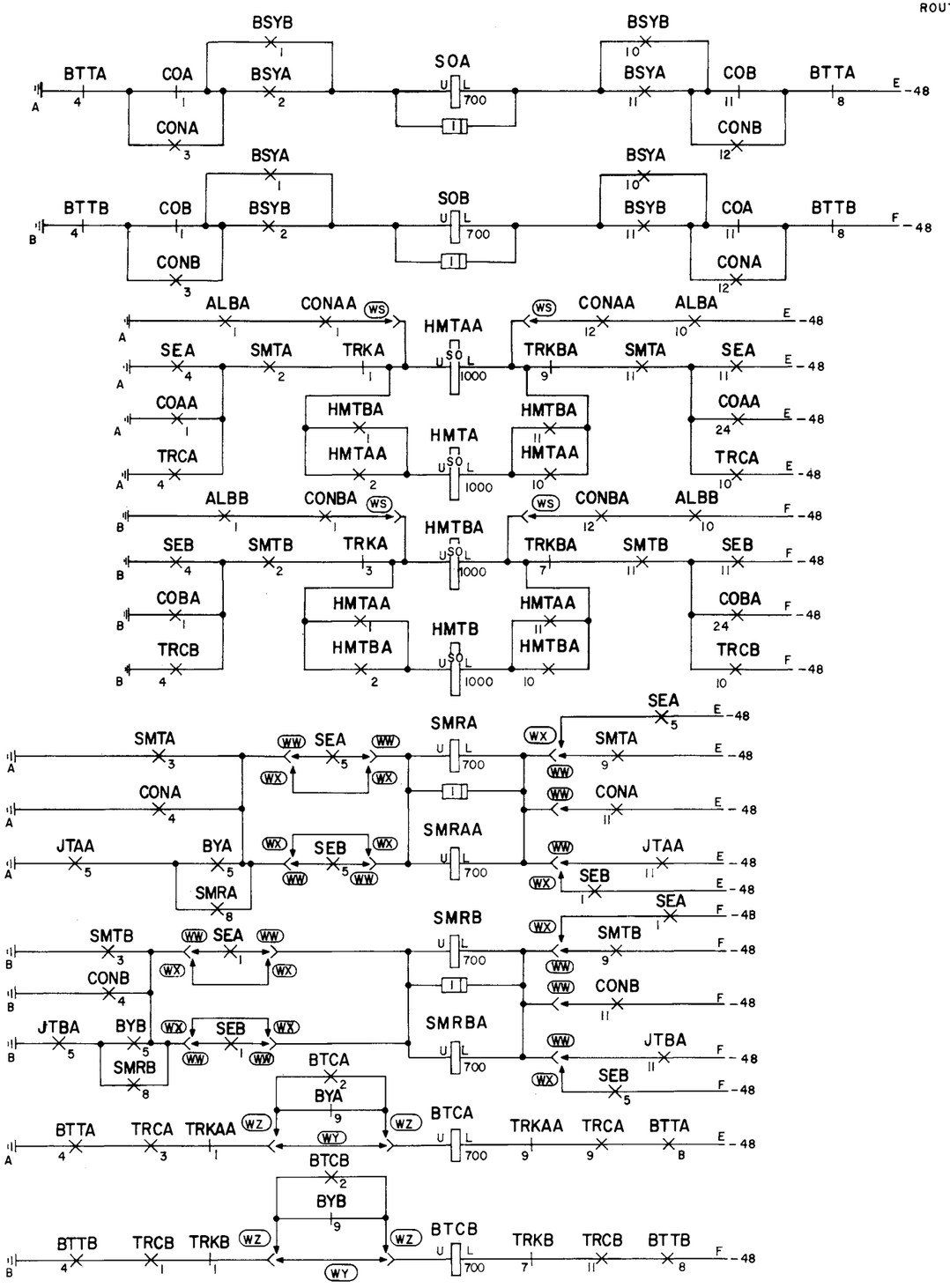
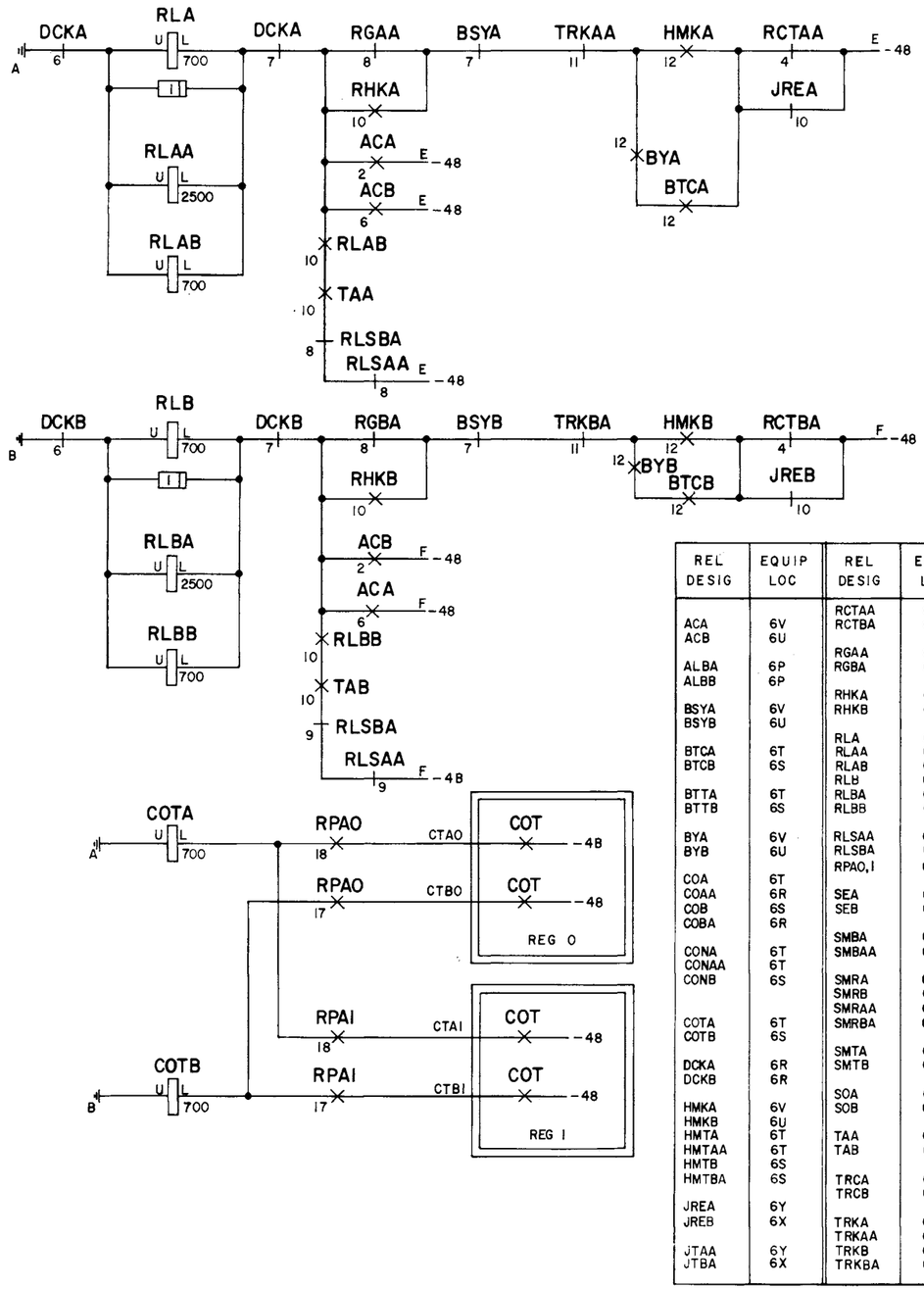
PART OF FS 9

ROUTE CONTROL





REL DESIG	EQUIP LOC	REL DESIG	EQUIP LOC
ACA	6V	RCTAA	6V
ACB	6U	RCTBA	6U
ALBA	6P	RGAA	6G
ALBB	6P	RGBA	6G
BSYA	6V	RHKA	6G
BSYB	6U	RHKB	6G
BTCA	6T	RLA	6T
BTCB	6S	RLAA	6T
BTTA	6T	RLAB	6T
BTTB	6S	RLB	6S
BYA	6V	RLBA	6S
BYB	6U	RLBB	6S
COA	6T	RLSAA	6K
COAA	6R	RLSBA	6J
COB	6S	RPAO, I	6W
COBA	6R	SEA	6V
CONA	6T	SEB	6U
CONAA	6T	SMBA	6T
CONB	6S	SMBAA	6T
COTA	6T	SMRA	6T
COTB	6S	SMRB	6S
DCKA	6R	SMRAA	6T
DCKB	6R	SMRBA	6S
HMKA	6V	SMTA	6Q
HMKB	6U	SMTB	6Q
HMTA	6T	SOA	6R
HMTAA	6T	SOB	6R
HMTB	6S	TAA	6K
HMTBA	6S	TAB	6J
JREA	6Y	TRCA	6Y
JREB	6X	TRCB	6X
JTAA	6Y	TRKA	6Y
JTBA	6X	TRKAA	6Y
		TRKB	6X
		TRKBA	6X

DRAWING ISSUE		
1	PC MR	WS
2B	TCC FGS	WS
3B	JD PD	JFD
4A	AD CHD	RAC
6A	RJS BAT	TEB

WORN DRAWING REPRODUCED WITHOUT CHANGE 1-13-67 JJR

33D	FED	FJS
	RHP	
36B	ROZ	
	RJS	
	LDJ	

NY NY NY A NO HW HW9

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LINE, LINK, AND MARKER CIRCUIT (2)

BELL TELEPHONE LABORATORIES INCORPORATED

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PART OF FS 9
ROUTE CONTROL

REL JESIG	EQUIP LOC
ALBA	6P
ALBB	6P
BTTA	6T
BTTB	6S
BTTC	6R
CCC	6R
COA	6T
COAA	6R
COBA	6R
CON(A,AA)	6T
CON(B,BA)	6S
COTA	6T
COTB	6S
HMKA	6V
HMKB	6U
ICTA	6T
ICTB	6S
LEAA	6Q
LEBA	6Q
NAA	6K
NAB	6J
NCA	6K
NCB	6J
RPO,1	6Z
SEAA	6V
SEBA	6U
SMRAA	6T
SMRBA	6S
SOA	6R
SOB	6R
STAR	6K
STBR	6K
TEAO,3	6AB
TEBO,3	6AA
TRCAA	6Y
TRCBA	6X

DRAWING ISSUE		
1	PC WS MR	N
38	JD JFD PD	
88	MG WS FGS	
23D	ZEN DHC ARM	H
24D	RWF SAK KFJ	H1
29B	WPM SAK GFH	H
30D	RAK RJS GFH	H1
31D	PMC PJS RHP	
WORN DRAWING REPRODUCED WITHOUT CHANGE 11-28-66 JJR		
33D	FED PJS RHP	
35D	FED RK RHP	
37B	ROZ PJS LDJ	

SD-65741-01-B16

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LINE, LINK, AND MARKER CIRCUIT (2) SD-65741-01-B16

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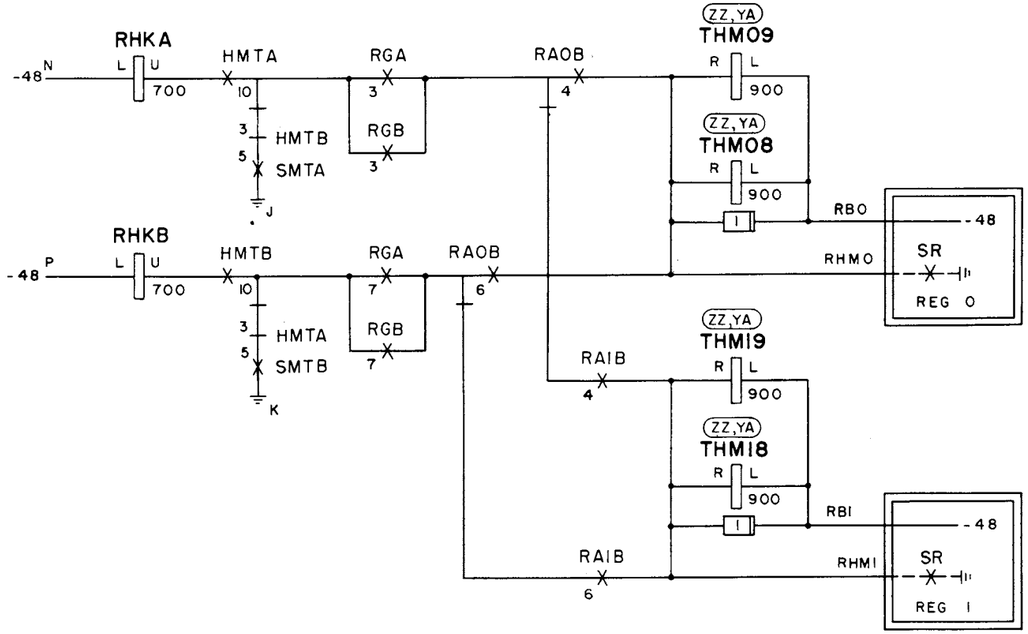
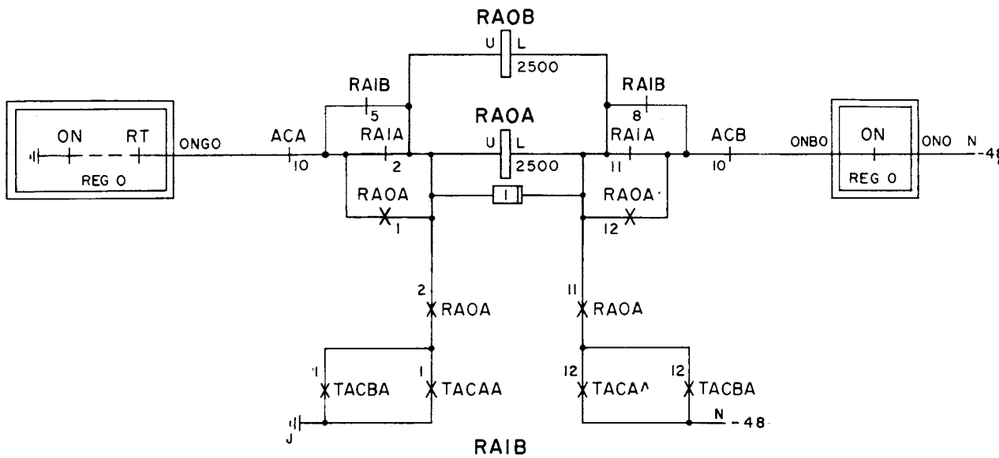
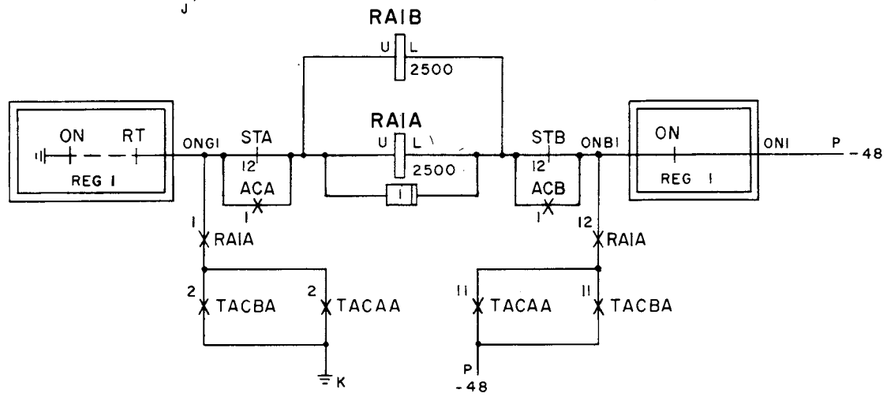
REL DESIG	EQUIP LOC
ACA	6V
ACB	6U
BTCA	6T
BTCB	6S
BYA	6V
BYB	6U
COA	6T
COB	6S
HMTA	6T
HMTAA	6T
HMTB	6S
HMTBA	6S
JREA	6Y
JREB	6X
RAOA	6G
RAOB	6G
RAIA	6G
RAIB	6G
RCAO	6H
RCAI	6H
RCTA	6Y
RCTB	6X
RGA	6G
RGAA	6G
RGBA	6G
RHKA	6G
RHKB	6G
RLSAA	6K
RLSBA	6J
RPAO	6W
RPAI	6W
RPO	6Z
RPI	6Z
SMTA	6Q
SMTB	6Q
TACAA	6Y
TACBA	6Y
TP2-7	6Z
TRCAA	6Y
TRCBA	6X

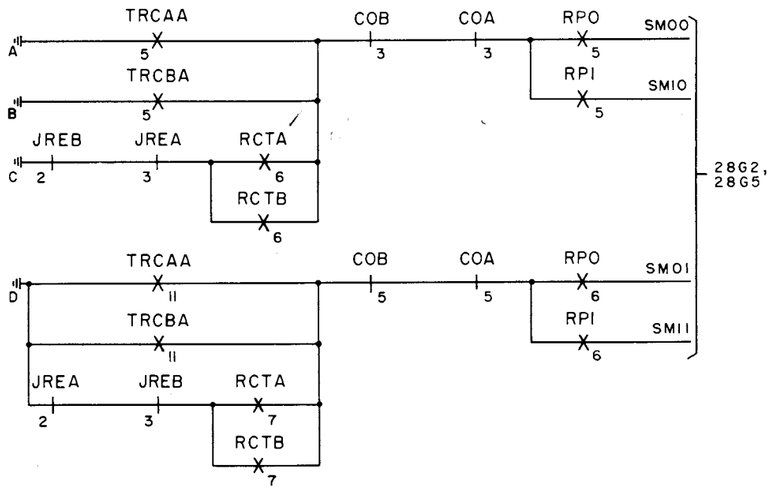
FS 10

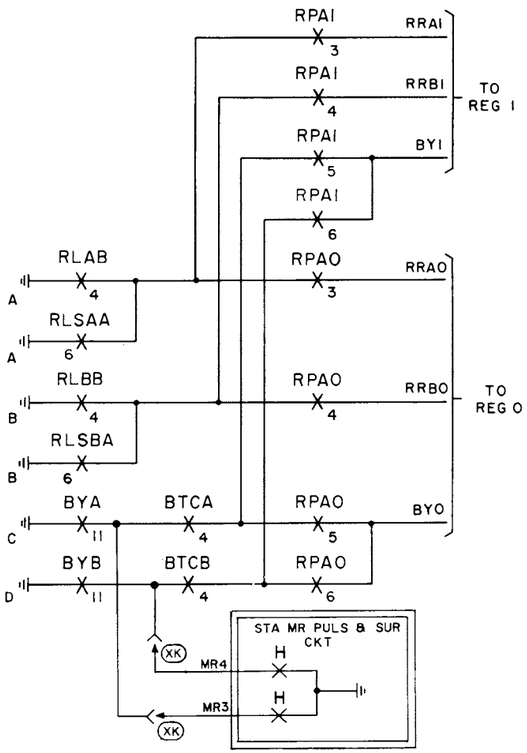
REGISTER CONTROL

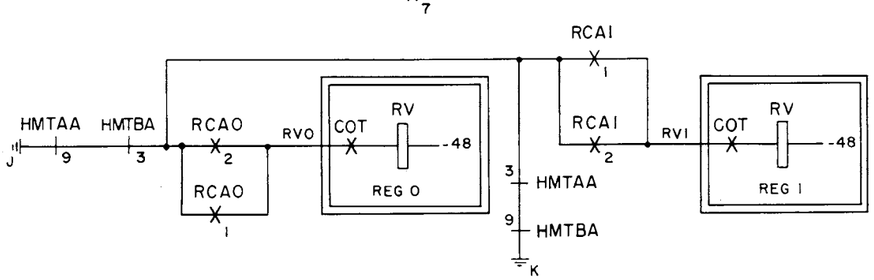


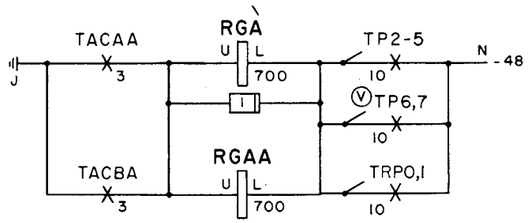


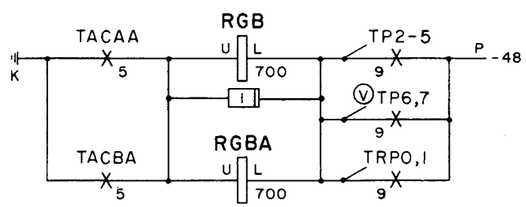












DRAWING ISSUE

1	BS NA	W.S
2B	FCC FGS	W.S
3B	W.P. PD	IFP
6A	R.J.S Ray	Fin
16B	JOS W.P. POB	
24D ATM	WPA SAK KFJ	KEG HW
31D	PMC PJS RHP	
35D	FED PJS RHP	

LINE, LINK, AND MARKER CIRCUIT (2)

BELL TELEPHONE LABORATORIES INCORPORATED

DWG SIZE 6S

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PART OF FS 11

CLASS OF SERVICE

CS
-48 Y
-48 X
SEB 10
SEA 10
SEB 8
SEA 8
ZU 11
ZU 9

SEE NOTE 3I1 &
SD-65746-01-660, CAD35 & G62, CAD16
FOR CROSS CONNECTION
INFORMATION

S0 6	CS0	J0 13B1	TCS2-5, Ⓥ TCS6,7 CS20-70	TRCO 1
S1 6	CS1	J1 13C1	TCS2-5, Ⓥ TCS6,7 CS21-71	TRCO 2
S2 6	CS2	J2 13D2	TCS2-5, Ⓥ TCS6,7 CS22-72	TRCO 3
S3 6	CS3		TCS2-5, Ⓥ TCS6,7 CS23-73	TRCO 4
S4 6	CS4		TCS2-5, Ⓥ TCS6,7 CS24-74	TRCO 5
S5 6	CS5	J3 13F1	TCS2-5, Ⓥ TCS6,7 CS25-75	TRCI 7
S6 6	CS6	J4 13G1	TCS2-5, Ⓥ TCS6,7 CS26-76	TRCI 9
S7 6	CS7	J5 13H2	TCS2-5, Ⓥ TCS6,7 CS27-77	TRCI 10
S8 6	CS8		TCS2-5, Ⓥ TCS6,7 CS28-78	TRCI 11
S9 6	CS9		TCS2-5, Ⓥ TCS6,7 CS29-79	TRCI 12

COT

TT
TTLA — 1L 1U
TTLD — 2L 2U
P-300
S-300

TLA — RGA 11 — RGB 11 — RAOB 10 — RAIB 10 — TLAI — TLAO
TLD — RGA 10 — RGB 10 — RAOA 9 — RAIA 9 — TLDI — TLDO
COT — RGA 9 — RGB 9 — RAOA 8 — RAIA 8 — COTI — COTO
RTT — TT 8 -48 — RGA 4 — RGB 4 — RAOA 6 — RAIA 6 — RTTI — RTTO
TO — TRCO 12 — TRCI 1 — KPC — RGA 5 — RGB 5 — RAOA 5 — RAIA 5 — KPCI — KPCO

TO REG O

TO REG I

TEAI A 2 — TSDA U L 700 E -48
TEBI B 2 — TSDB U L 700 F -48

RGB RGC
TRTI RCO RCI
STA DIAL TR CONT CKT

NT A — U L 700 — NT

BUSY VERIFICATION AUX TRK CKT
NT -48 MC

CENT. OFF. TRK OR RING-DOWN TIE TRK CKTS
MC ACA
RT

CORDLESS POSITION CKT
NT — DIAL BACK — NL KEY
NT 1U 1L 400 2L 210 2U -48

NT A — 6 — KO
(WJ) (SEE NOTE B)
NT 23D4 40F0

TN SR
1U 1L 450 2L 57 2U -48
ATT TRK CKTS

REL DESIG	EQUIP LOC
NT	6L,M
RAOA	6G
RAOB	6G
RAIA	6G
RAIB	6G
RGA	6G
RGB	6G
SO-9	6W
SEA	6V
SEB	6U
TCS2,3	2M
TCS 4,5	3M
TEAI	6AB
TEBI	6AA
TRCO	4Z
TRCI	4Z
TSDA	6R
TSDB	6R
TT	6R
ZU	6L,M

SHEET NOTES

A. LEAD DESIGNATIONS INDICATED BY ARROWS APPLY TO LEADS BETWEEN MARKER UNITS

B. WHEN OPTION WJ IS REQUIRED THE INSTALLER SHALL ADD A STRAP BETWEEN 6 BREAK OF RELAY NT AND 4 MAKE OF RELAY COAA (OPTION 22 PROVIDED) OR 2M OF RELAY COS (OPTION 9 PROVIDED).

DRAWING ISSUE		
1	P.C. B.A MR	WS
2B	EH R.D.	WS
5D	A.D CHD	RAC
7D	RJC BAT	TEB
9B	VZ MS	PD
23D	ZEK DHC ARM	
29B	WPA GFH	HW
30D	ROZ RJS GFH	
31D	PMC RJS RHF	
WORN DRAWING REPRODUCED WITHOUT CHANGE 10-11-66 FED #		
33D	FED RJS RHF ROZ	
37B	RJS LDJ	
38D	RJS LDJ	

3.8

LINE, LINK, AND MARKER CIRCUIT (2)

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6S

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PART OF FS II

CLASS OF SERVICE

TO REG 0

TROO RCBO 5 — TTOA 4 TKAO Q — TTO

TROI RCBI 5

TRIO RCBO 6 — TTEA 5 TKAO Q — TTE

TRII RCBI 6

TLOO RCBO 9 — TLAO

TLOI RCBI 9

TLIO RCBO 10 — TLAE

TLII RCBI 10

TO REG I

TO ALL ODD CENTRAL OFFICE AND RINGDOWN TIE TRK CKTS

TO STA DIAL TR TRK CKT

24G3 A

AL ALARM CA

-48 E TS L U 2500 — TS 2

8 TSDA / 8 TSDB — 9 TSDA / 9 TSDB — 10 TSDA / 10 TSDB — 11 TSDA / 11 TSDB

7 TSDB / 7 TSDA — 6 TSDB / 6 TSDA — 5 TSDB / 5 TSDA — 4 TSDB / 4 TSDA — 3 TSDB / 3 TSDA — 2 TSDB / 2 TSDA

RLA RLB — HMTBA 4 HMTAA 4 — BTTC 2 1 — RPAO,I 9 — YR — WM,YQ — XA — XB

RLA RLB — WM — WL — RSA — TK8 8 — RSC — TK9 8 — TKO 8

RPAO,I 10 — WM,YQ — YR — RLA RLB 9 5 — HMTBA 12 HMTAA 12 — BTTC 1 — XA — XB — WM — RLA 9 — RLB 5 — WL — RSD — TKA8 8 — TKA9 8 — TKAO 8

XK — RSB — RSA — H H — STA MR PULS & SUR CKT

BTTA 10 — 1,2 9,22 COSA 4 COSB — 3 COSA — 5,8 9,22 COSA — 3 COSA — HMTAA 5 — HMTBA 5

BTTB 10 — G — 1,2 9,22 COSB 4 COSA — H — 3 COSB — 5,8 9,22 COSB — 3 COSB — HMTAA 7 — HMTBA 7

COB 12 — COS(A,B) 12 — WC,22 — NT 1 — WC,22

COA 2 — YT

COB 2 — NT 3 — WC,22 — 9,22 COS(A,B) 11,6 — WC,22

COA 12

TEA3 2 — TEB3 2 — RLAA 4 RLBA 7 — RLAB RLBB — YC YB — RLSO

TEA3 4 — TEB3 4 — RLBB RLAB — RLSE

NT 12 — RTO

NT 10 — RTE

RSO — RSE — FFO — FFE — BY — BYE — BYO

TO DIAL CONF TRK CKT ATT AND STA CONT

TO BUSY VERIFICATION AUX TRK CKT

TO ALL EVEN CO & RD TIE TRK CKTS

BUSY VERIFICATION AUX TRK CKT

TRMO P 10 — LK — YT — MKBV — MKBV 1 — -48 — BV — NN

SEE NOTE B — XQ — XR — XP — COTA 2 — TC — COTB 2 — TCS2-7 — IR2-7 — 8 — XP

RLB RLA A 1 1 — RLS — XP

INWARD RESTRICTION CIRCUIT

AUO-9 — IR(A-J) IU OR IL 2U OR 2L -48 — IR(A-J) — AUO-9 — AUO-9 — HIA HIB HIC — (2C2) (2B1)

6B1,6E1,6B6,6E6, 7B1,7E1,7B6,7E6, 8B1,8E1 — UO-9 — UO-9 — AUO-9 U L -48

REL DESIG	EQUIP LOC	REL DESIG	EQUIP LOC
BTTA	6T	TCS 2,3	2M
BTTB	6S	TCS 4,5	3M
BTTC	6R	TCS 6,7	4M
COA	6T	TEA 3	6AB
COB	6S	TEB 3	6AA
COSA	6P	TKO	4Z
COSB	6P	TK8	2L
COTA	6T	TK9	4Z
COTB	6S	TKA 0	4Z
		TKA 8	2L
H	EXT	TKA 9	4Z
HMTAA	6T	TRM 0	4Z
HMTBA	6S	TS	6R
		TSDA	6R
NT	6L,M	TSDB	6R
RCBO	6H		
RCBI	6H		
RLA	6T		
RLAA	6T		
RLAB	6T		
RLB	6S		
RLBA	6S		
RLBB	6S		
RPAO, I	6W		

SHEET NOTES

A. LEAD DESIGNATIONS INDICATED BY ARROWS APPLY TO LEADS BETWEEN MARKER UNITS.

B. USE SAME GRD TO SUPPLY BSY VERIF AUX TRK CKT AND TO FURNISH GROUND PER OPTION XQ.

DRAWING ISSUE		
1	DS MM	WS
28	TLL FGS	WS NY
38	JD PD	JFD
11B	O L LKE	PO.B. A
16B	JOS HP POB	HO
22AC	JJG RG PD	HO
23D	ZEN DHC ARM	HO
24D	WPA SAK KFJ	HW9 B
25D	GAP SAK KFJ	
29B	JJH GFH	
31D	PMC PJS RHP	
WORN DRAWING REPRODUCED WITHOUT CHANGE 6-20-67 JJR		C
33D	FED PJS RHP	
35D	FED PJS RHP	
38D	ROZ PJS LDJ	D

38

LINE, LINK AND MARKER CIRCUIT (2)

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LINK TEST

LT2 — LTA2 — LTCA — CONAA — LTCB — CONBA — LTA — LTB — LTB2,3 — P-54 -6 S-3000 — TRLB TRLA — LTCA LTCB — LTS2 — COAA — 02 1000 — 12 1000 — SO2 — SI2

LT3 — LTA3 — LTCA — CONAA — LTCB — CONBA — LTA — LTB — LTB2,3 — P-54 -6 S-3000 — TRLB TRLA — LTCA LTCB — LTS3 — COAA — 03 1000 — 13 1000 — SO3 — SI3

LT4 — LTA4 — LTCA — CONAA — LTCB — CONBA — LTA — LTB — LTB4,5 — P-54 -6 S-3000 — TRLB TRLA — LTCA LTCB — LTS4 — COAA — 04 1000 — 14 1000 — SO4 — SI4 — LTSA

LT5 — LTA5 — LTCA — CONAA — LTCB — CONBA — LTA — LTB — P-54 -6 S-3000 — TRLB TRLA — LTCA LTCB — LTS5 — COAA — 05 1000 — 15 1000 — SO5 — SI5

LT6 — LTA6 — LTCA — CONAA — LTCB — CONBA — LTA — LTB — LTB6,7 — P-54 -6 S-3000 — TRLA TRLB — LTCA LTCB — LTS6 — COBA — 06 1000 — 16 1000 — SO6 — SI6

LT7 — LTA7 — LTCA — CONAA — LTCB — CONBA — LTA — LTB — P-54 -6 S-3000 — TRLA TRLB — LTCA LTCB — LTS7 — COBA — 07 1000 — 17 1000 — SO7 — SI7

LINK 02 — -96 — LINK 02 — MAKE BUSY AND BUSY DISPLAY CIRCUIT — L3 BAT — L3 -48

TO MB & BY DISPL CKT

REL DESIG	EQUIP LOC
COAA	6R
COBA	6R
CONAA	6T
CONBA	6S
LT2-7	6N
LTA	6Q
LTB	6Q
LTCA	6N
LTCB	6N
LTS2-7	6P
TRLA	6Q
TRLB	6Q

DRAWING ISSUE

1	2-9 WPA
3B	WPA SAK KFJ
24D	EWE SAK RHP
32D	FED PJS RHP
33D	RHP

LINE, LINK AND MARKER CIRCUIT

BELL TELEPHONE LABORATORIES INCORPORATED

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33

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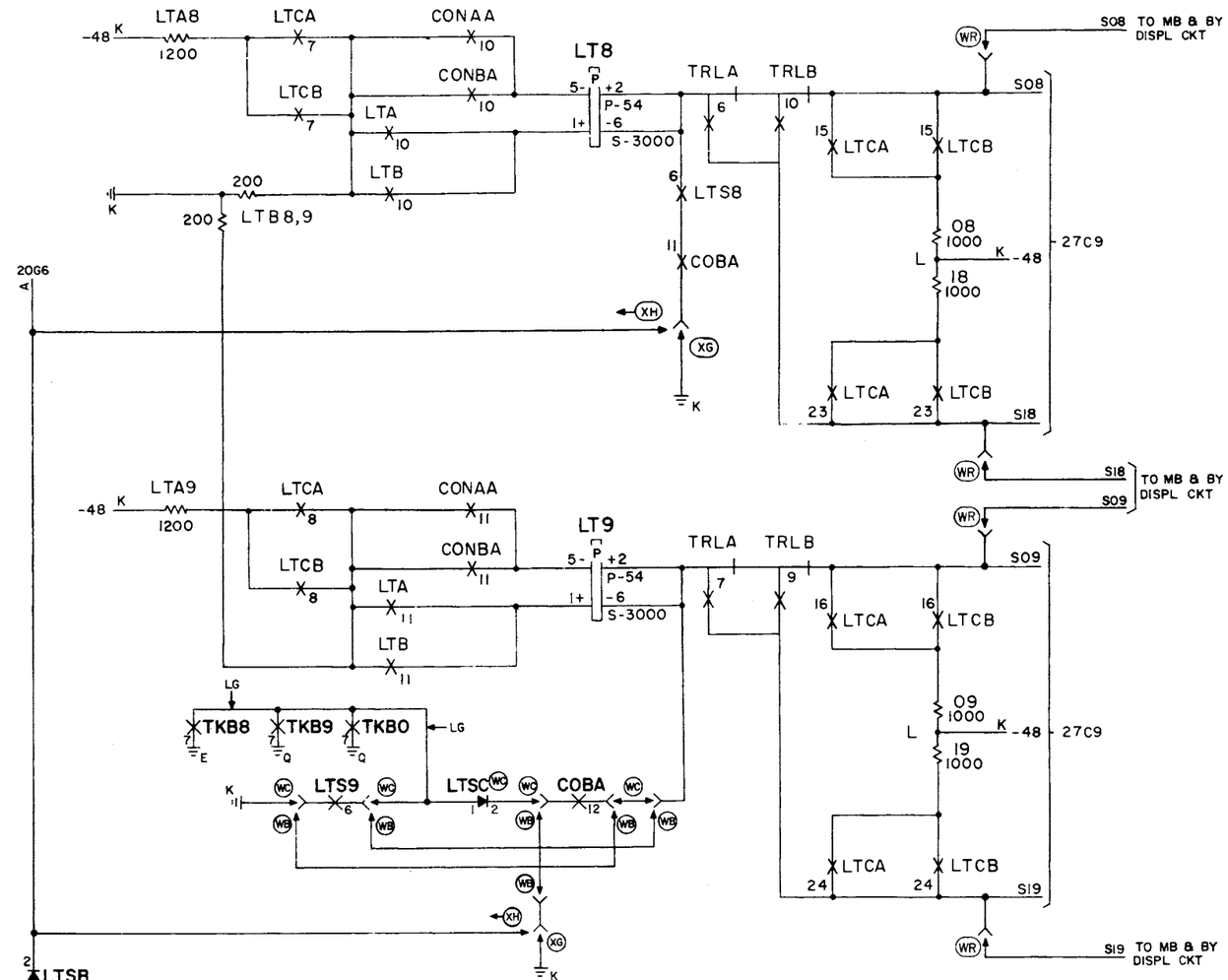
LINK TEST



REL DESIG	EQUIP LOC
COAA	6R
COBA	6R
CONAA	6T
CONBA	6S
LEA	6Q
LEB	6Q
LT2-9	6N
LTA	6Q
LTAA	6Q
LTB	6Q
LTBA	6Q
LTCA	6N
LTCB	6N
LTS2-8	6P
TKBO	4Z
TKB8	2L
TKB9	4Z
TRLA	6Q
TRLB	6Q

DRAWING ISSUE	
1	AC 4-42
4A	AD C&R
12B	PTK WAL
24D	WPA SAK KFJ
29B	WPA GFH EWE
32D	SAK RHP
33D	FED PJS RHP

NOTE:

1. LEAD DESIGNATIONS INDICATED BY ARROWS APPLY TO LEADS BETWEEN MARKER UNITS.

LINE, LINK, AND MARKER CIRCUIT (2)

BELL TELEPHONE LABORATORIES INCORPORATED

DWG SIZE 6S

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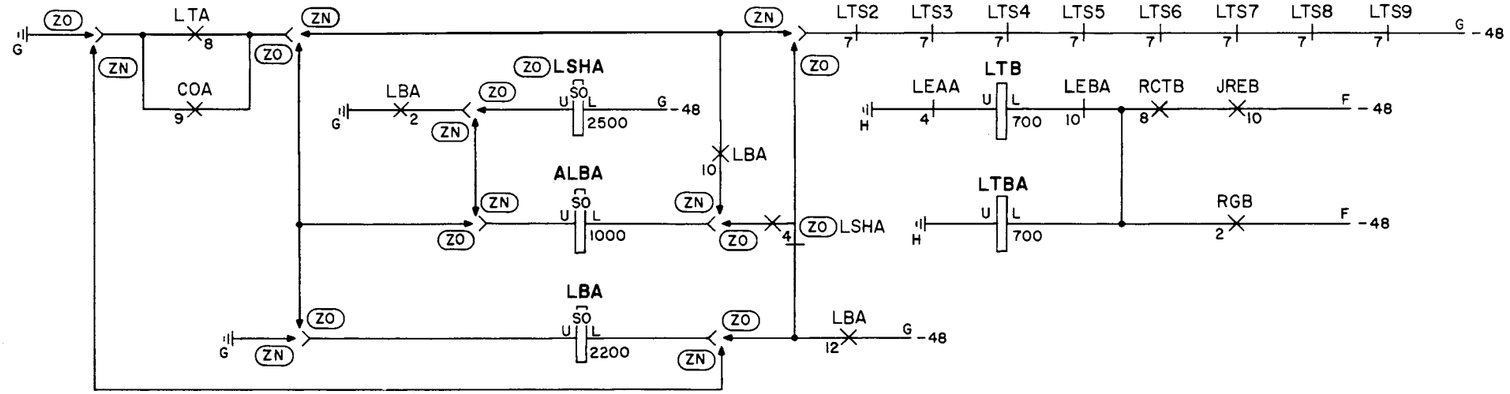

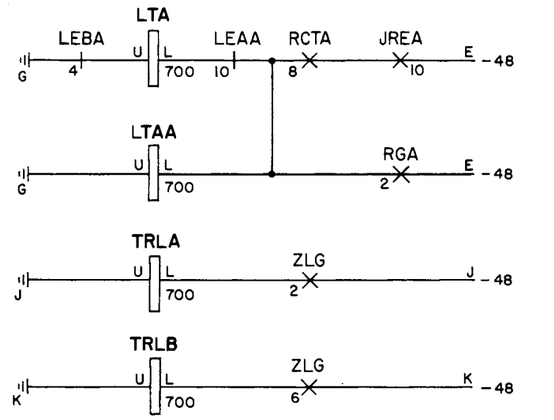

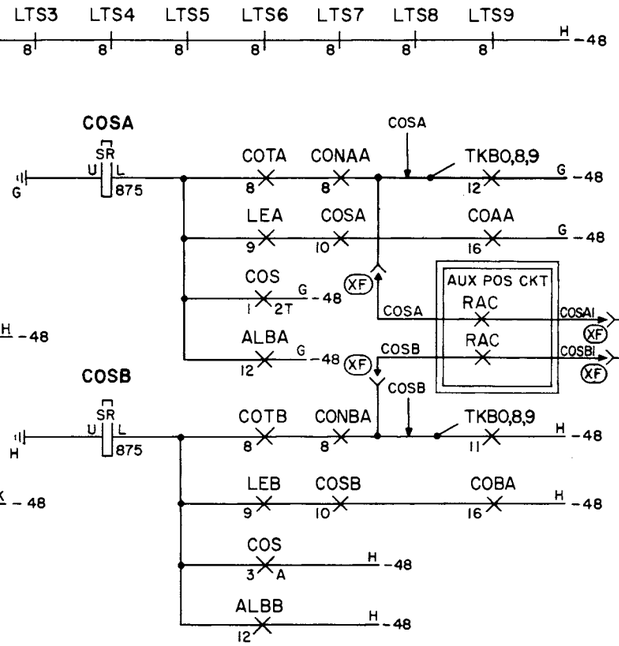

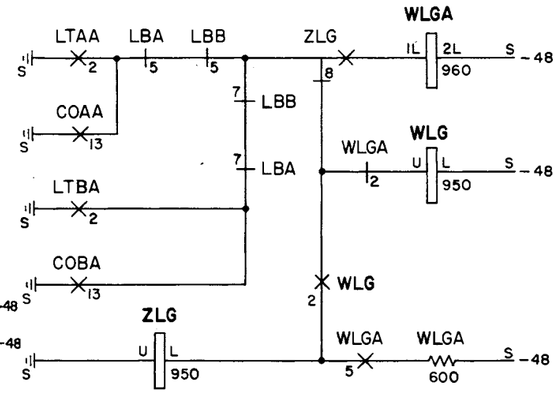

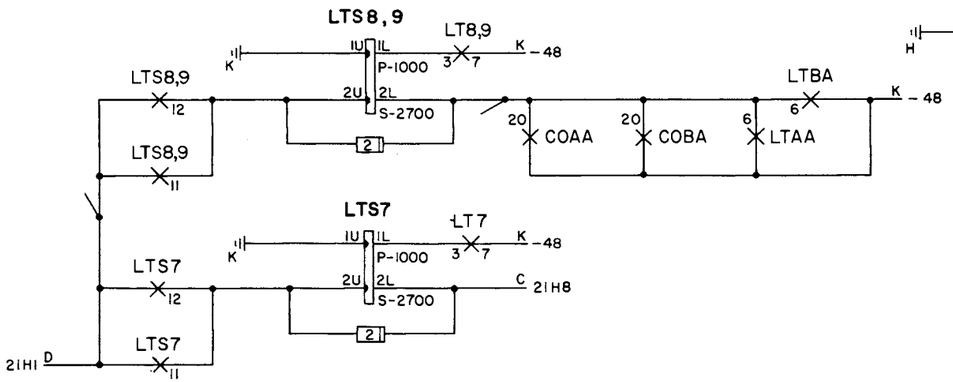

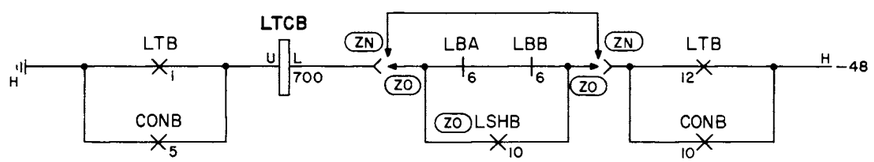

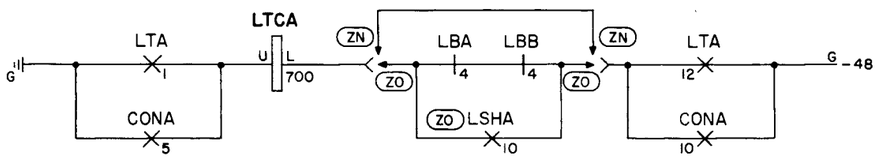

SHEET NOTES:
A. LEAD DESIGNATIONS INDICATED BY ARROWS APPLY TO LEADS BETWEEN MARKER UNITS.

REL DESIG	EQUIP LOC
ALBA	6P
ALBB	6P
COA	6T
COAA	6R
COB	6S
COBA	6R
CONA	6T
CONAA	6T
CONB	6S
CONBA	6S
COS	6P
COSA	6P
COSB	6P
COTA	6T
COTB	6S
JREA	6Y
JREB	6X
LBA	6Q
LBB	6Q
LEA	6Q
LEAA	6Q
LEB	6Q
LEBA	6Q
LSHA	6N
LSHB	6N
LT7-9	6N
LTA	6Q
LTAA	6Q
LTB	6Q
LTBA	6Q
LTCA	6N
LTCB	6N
LTS2-9	6P
RCTA	6Y
RCTB	6X
RGA	6G
RGB	6G
TKBO	4Z
TKB8	2L
TKB9	4Z
TRLA	6Q
TRLB	6Q
WLG	6L
WLGA	6L
ZLG	6L

DRAWING ISSUE

12B	RQ, WM	POB 10
23D	ZEN, DHC, AHM	
30D	WEM, PJS, GFH	H&W A
33D	FED, FJS, RHP	

LINE, LINK, AND MARKER CIRCUIT	SD-65741-01-B22
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SD-65741-01-B22

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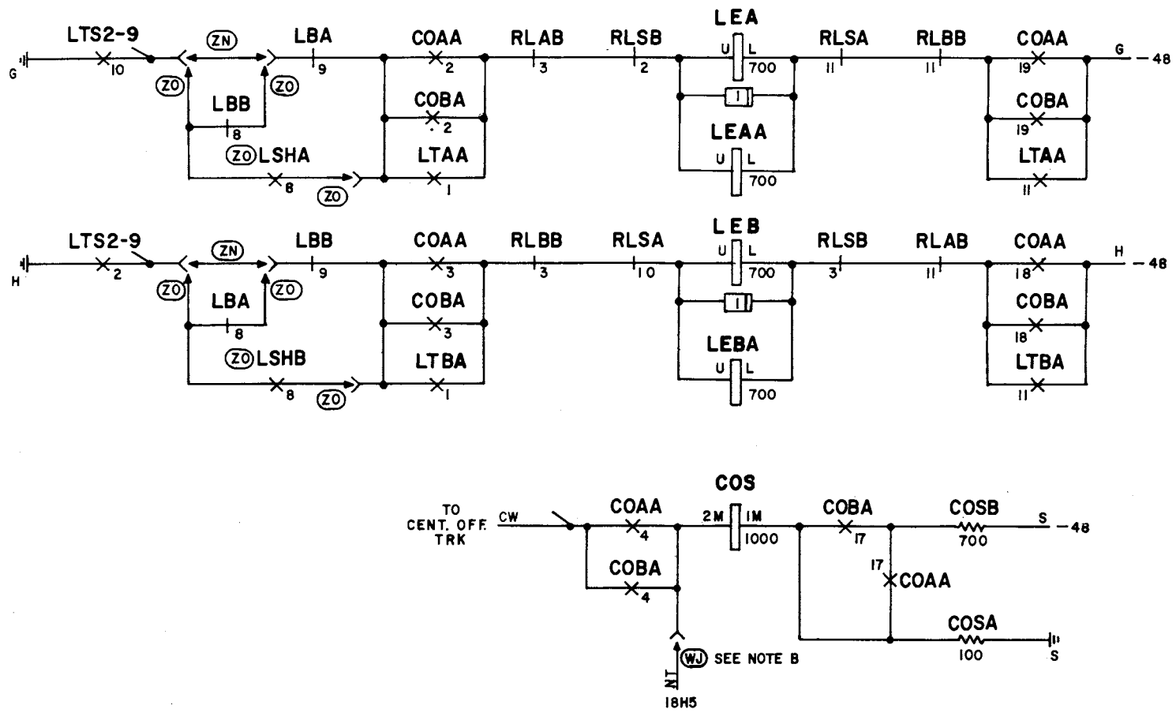
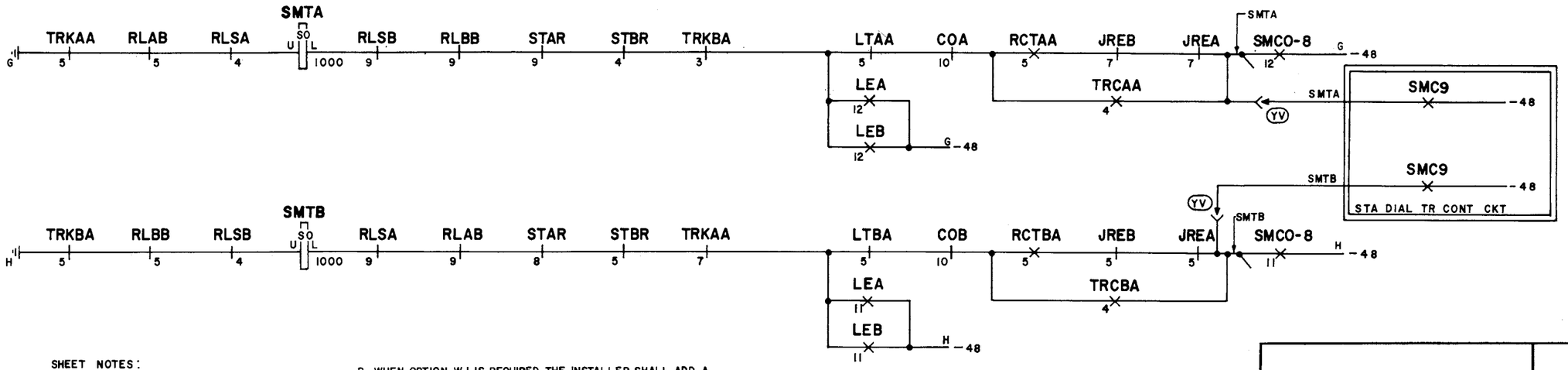
LINK TEST



REL DESIG	EQUIP LOC
COA	6T
COAA	6R
COB	6S
COBA	6R
COS	6P
JREA	6Y
JREB	6X
LBA	6Q
LBB	6Q
LEA	6Q
LEAA	6Q
LEB	6Q
LEBA	6Q
LSHA	6N
LSHB	6N
LTAA	6Q
LTBA	6Q
LTS2-9	6P
RCTAA	6V
RCTBA	6U
RLAB	6T
RLBB	6S
RLSA	6K
RLSB	6J
SMCO	4AA
SMC1	3V
SMC2	2L
SMC3	2L
SMC4,5	3V
SMC6-8	4AA
SMTA	6Q
SMTB	6Q
STAR	6K
STBR	6K
TRCAA	6Y
TRCBA	6X
TRKAA	6Y
TRKBA	6X

PART OF FS 13

SELECT MAGNET CONTROL



SHEET NOTES:

A. LEAD DESIGNATIONS INDICATED BY ARROWS APPLY TO LEADS BETWEEN MARKER UNITS

B. WHEN OPTION WJ IS REQUIRED THE INSTALLER SHALL ADD A STRAP BETWEEN 2M OF RELAY COS AND 6 BREAK OF RELAY NT.

DRAWING ISSUE

1	PC BA MR	NY WS
2 B	TCC FGS	WS
3 B	JD JFD PD	A
4 A	AD RAC CHD	
8 A	RJS TEB BAT	
12 B	PTK POE WM	
23 D	ZEN DHC ARM	B HO
30 D	EWE SAK GFH	H'W
	WORN DRAWING REPRODUCED WITHOUT CHANGE 9-6-66 J.J.R.	HW C BRS.
33 D	FED RJS RHP	
38 D	ROZ PJS LDJ	D

38

LINE, LINK, AND MARKER CIRCUIT (2)	SD-65741-01-B 23
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PART OF FS 13

SELECT MAGNET CONTROL

SMCO
SMCO
TKB8
TKBO,9
RGAA,BA
TRCO,I
BTCA
COAA
BTCB
COBA
SMCI
SMCI
JRO,I,2,5
RGAA,BA
SMC2
THC2
TKB8
SMC3
THC3
SMC4
THC4
SMC5
THC5
SMC6
THC6
SMC7
THC7
SMC8
SMC8
JR3,4
TRUO,I
TKBO,9
COAA
COBA

TO STA DIAL TR CONT CKT

SM(0,I,8)2
SM(2-5)2
SM(6,7)2
SMCO-8
LT2
LTS2
WIL
ZL
LEBA
LEAA
SM(0,I,8)3
SM(2-5)3
SM(6,7)3
LT3
LTS3
SM(0,I,8)4
SM(2-5)4
SM(6,7)4
LT4
ZIL
LTS4
SM(0,I,8)5
SM(2-5)5
SM(6,7)5
LT5
LTS5
SM(0,I,8)6
SM(2-5)6
SM(6,7)6
LT6
LTS6
SM(0,I,8)7
SM(2-5)7
SM(6,7)7
LT7
LTS7
SM(0,I,8)8
SM(2-5)8
SM(6,7)8
LT8
LTS8
SM(0,I,8)9
SM(2-5)9
SM(6,7)9
LT9
LTS9
LEB
LCKI
LEA
LCK2
TRLB
TRLA
LT2-9
LTS2-9
SM(0,I,8)I
SM(2-5)I
SM(6,7)I
SM(0,I,8)0
SM(2-5)0
SM(6,7)0
TO STA DIAL TR CONT CKT

WL
WL
STB
STA
LTAA
SAA
SAB
LTBA
ZL
ZIL
WIL

NOTES:

A. LEAD DESIGNATIONS INDICATED BY ARROWS APPLY TO LEADS BETWEEN MARKER UNITS

B. NUMBERS IN PARENTHESES IN A SELECT MAGNET DESIGNATION REFERS TO THE SWITCH NO. IN WHICH IT IS LOCATED.

REL DESIG	EQUIP LOC
BTCA	5T
BTCB	5S
COAA	6R
COBA	6R
JRO-5	6X
LCK1,2	6P
LEA	6Q
LEAA	5Q
LEB	6Q
LEBA	5Q
LTAA	5Q
LTBA	5Q
LT2-9	6P
LTS2-9	6P
RGAA,BA	5G
SAA	6K
SAB	5J
SMCO-8	4AA
SMCI	3V
SMC2,3	2L
SMC4,5	3V
SMC6-8	4AA
STA	5K
STB	6J
THC2,3	2M
THC4,5	3M
THC6,7	4M
TKB0,9	4Z
TKB8	2L
TRCO,1	4Z
TRLA	6Q
TRLB	6Q
TRUO,1	4Z
WIL	6L,M
WL	6L,M
ZIL	6L,M
ZL	6L,M

DRAWING ISSUE

1	SC BAA MR	WS
3B	JED JFD PD	A
12B	PTK POE WM	
16B	JOS HP POE	HO
22AC	JJG RG PD	HO
23D	ZEN DHC ARM	B
30D	EW PJS GFH	HW
33D	FED PJS RHP	C

WORN DRAWING REPRODUCED WITHOUT CHANGE 11-30-66 J.J.R.

33

LINE, LINK, AND MARKER CIRCUIT ②

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ADVANCE, TIMEOUT AND RELEASE

REL DESIG	EQUIP LOC
ARBA	6AB
ARBB	6AA
MTA	6J
MTB	6K
NAA	6K
NAB	6J
NCA	6K
NCB	6J
RCKA	6R
RCKB	6R
RLA	6T
RLB	6S
RLSA	6K
RLSAA	6K
RLSB	6J
RLSBA	6J
RPO,I	6W
SAA	6K
SAB	6J
STA	6K
STAR	6K
STBR	6K
STB	6J
TAA	6K
TAB	6J
TACA	6Y
TACB	6Y
TACAA	6Y
TACBA	6Y
TEA2	6AB
TEB2	6AA
TMA	6K
TMB	6J
TOA	6K
TOB	6J
TOKA	6K
TOKB	6J
TRA	6K
TRB	6J
TRCAA	6Y
TRCBA	6X
TRKAA	6Y
TRKBA	6X

DRAWING ISSUE	
1	
28	
3B	
4A	
6A	
8B	
11B	
19B	
30D	

LINE, LINK AND MARKER CIRCUIT

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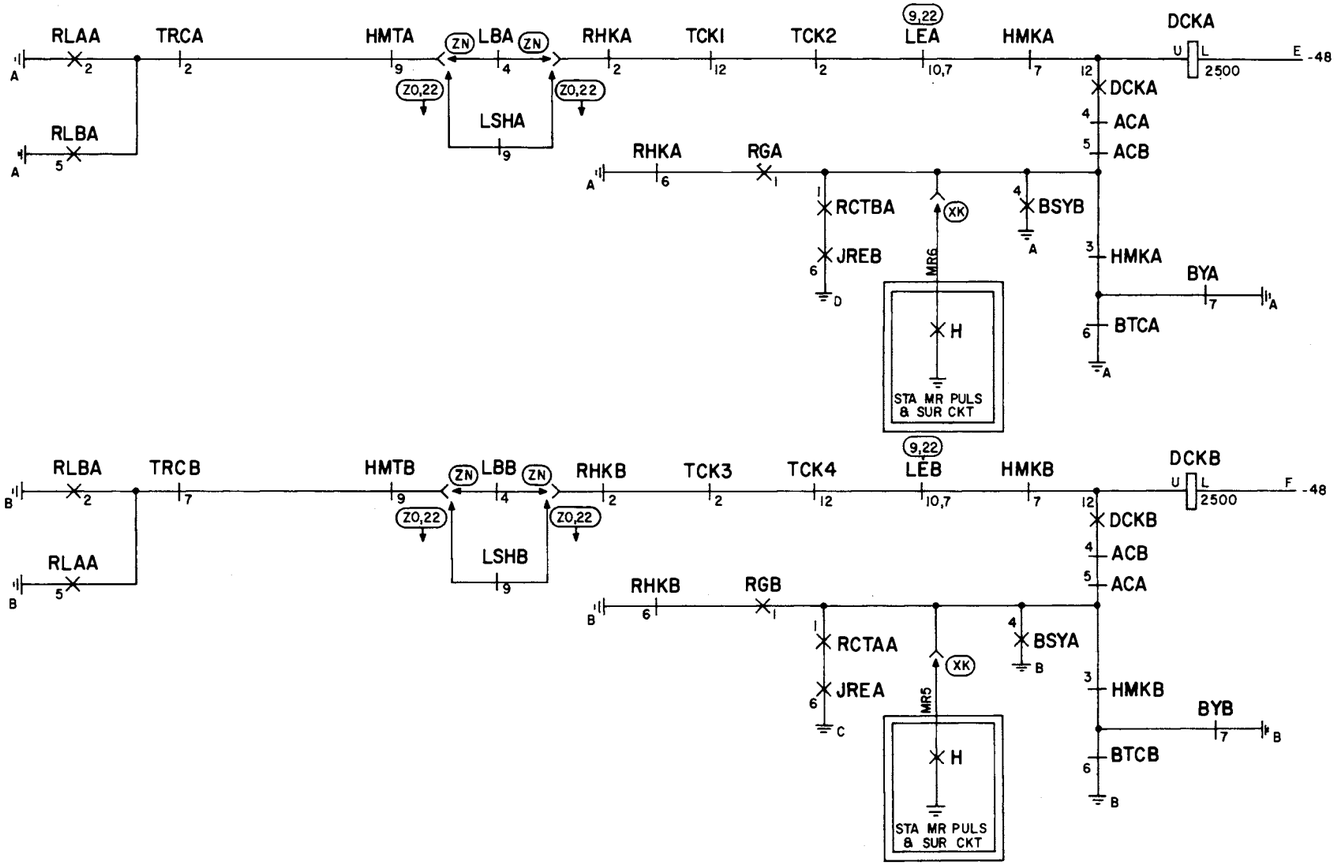
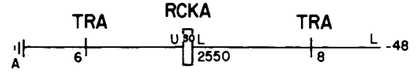
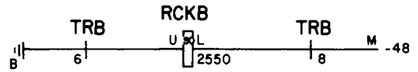
FS 15

DOWN CHECK



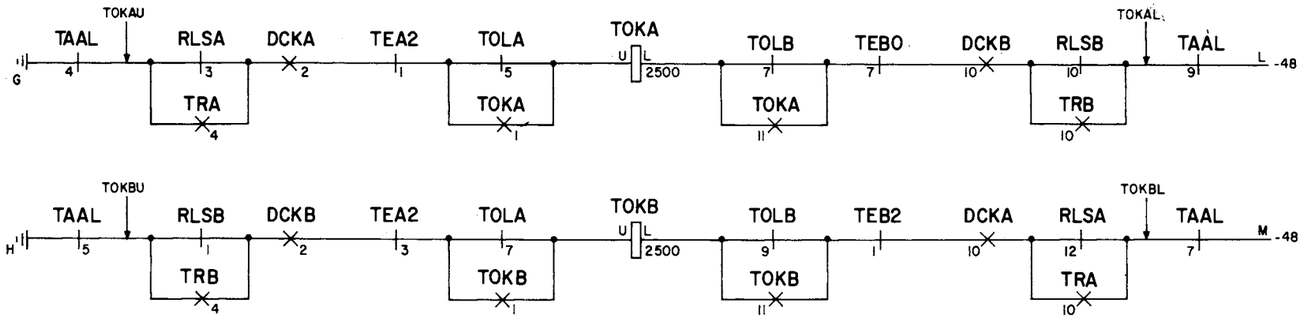


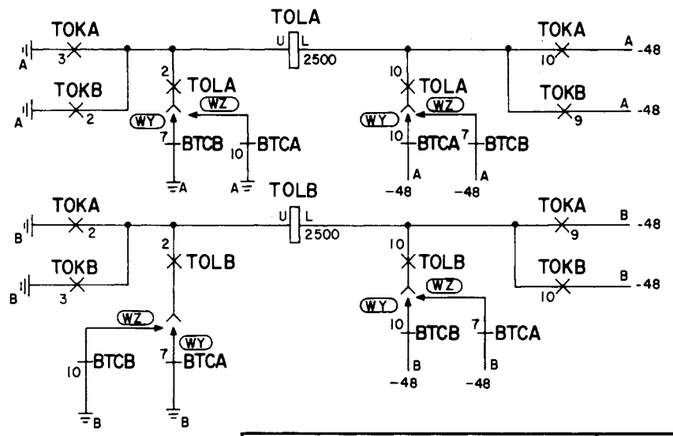


REL DESIG	EQUIP LOC	REL DESIG	EQUIP LOC
ACA	6V	RGA	6G
ACB	6U	RGB	6G
BSYA	6V	RHKA	6G
BSYB	6U	RHKB	6G
BTCA	6T	RLAA	6T
BTCB	6S	RLBA	6S
BYA	6V	RLSA	6K
BYB	6U	RLSB	6J
DCKA	6R	TAAL	1AA
DCKB	6R	TCK1-4	6Z
HMKA	6V	TEA2	6AB
HMKB	6U	TEB0,2	6AA
HMTA	6T	TOKA	6K
HMTB	6S	TOKB	6J
JREA	6Y	TOLA	6K
JREB	6X	TOLB	6J
LBA	6Q	TRA	6K
LBB	6Q	TRB	6J
LEA	6Q	TRCA	6Y
LEB	6Q	TRCB	6X
LSHA	6N		
LSHB	6N		
RCKA	6R		
RCKB	6R		
RCTAA	6V		
RCTBA	6U		

FS 16

TIME-OUT CHECK





NOTES:

A. LEAD DESIGNATIONS INDICATED BY ARROWS APPLY TO LEADS BETWEEN MARKER UNITS

DRAWING ISSUE		
1	PC BA MR	W.S.
2B	TCC FGS	W.S. PD. P.B. A JD MY HO HWJ HWJ
3B	JD PD	
12B	PTK WM	
24D	RMP SAK KFJ	
31D	PMC PJS RHP	
33D	FED PJS RHP	
35D	FED PJS RHP	
WORN DRAWING REPRODUCED WITHOUT CHANGE 1-31-68		L.D.J.
36B	RCZ PJS LDJ	

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LINE, LINK, AND MARKER CIRCUIT (2)

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DWG SIZE 6S

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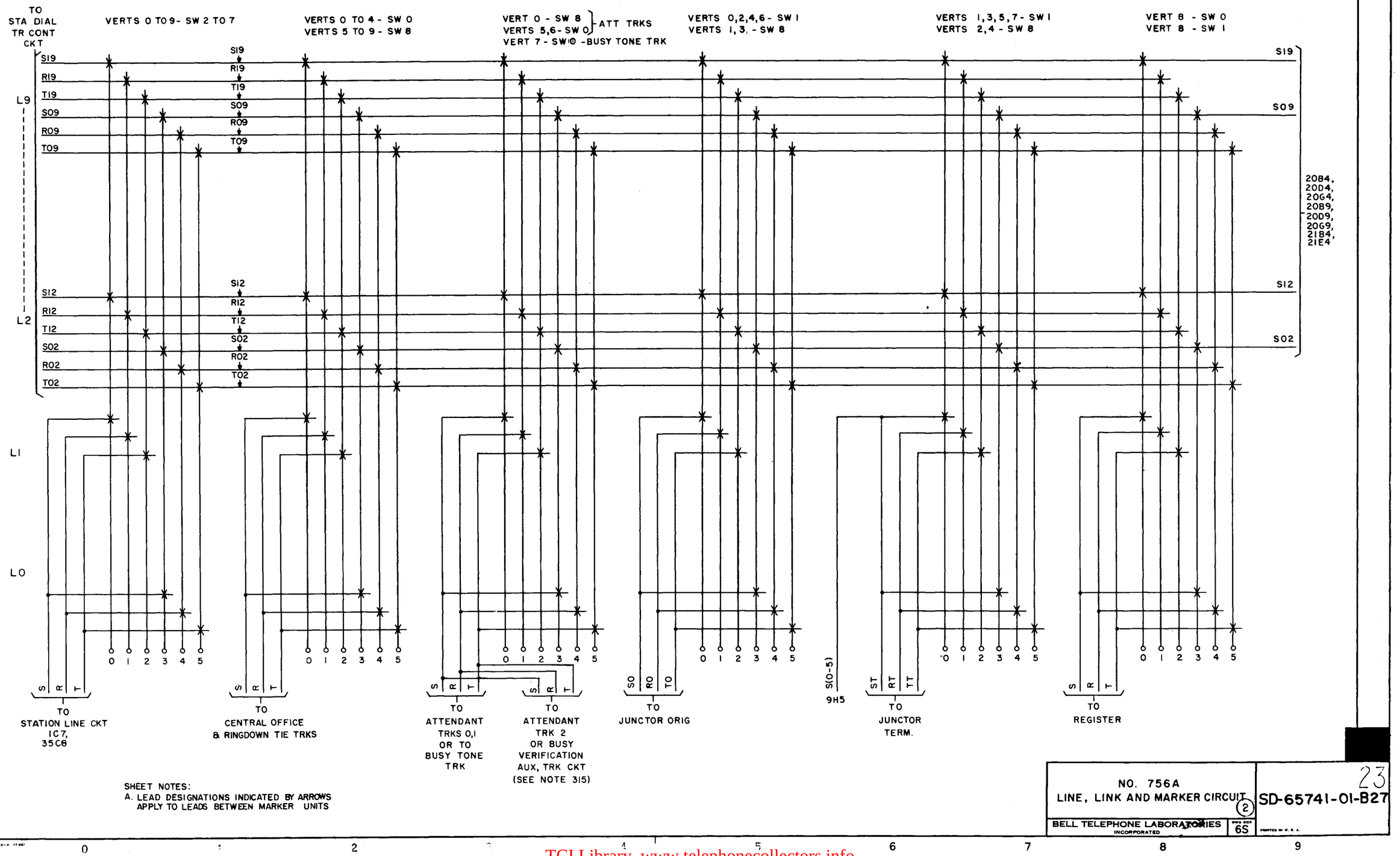
PART OF FS 17

LINKS

(SEE NOTE 301 FOR ASSIGNMENT OF VERTICALS)



SHEET NOTES:

A. LEAD DESIGNATIONS INDICATED BY ARROWS APPLY TO LEADS BETWEEN MARKER UNITS

DRAWING ISSUE

1	P.C. M.K.
11B	R.L. L.H.E. ZEM
23D	DNC

NO. 756A
LINE, LINK AND MARKER CIRCUIT (2)

BELL TELEPHONE LABORATORIES INCORPORATED

SIZE 6S

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SD-65741-01-B27

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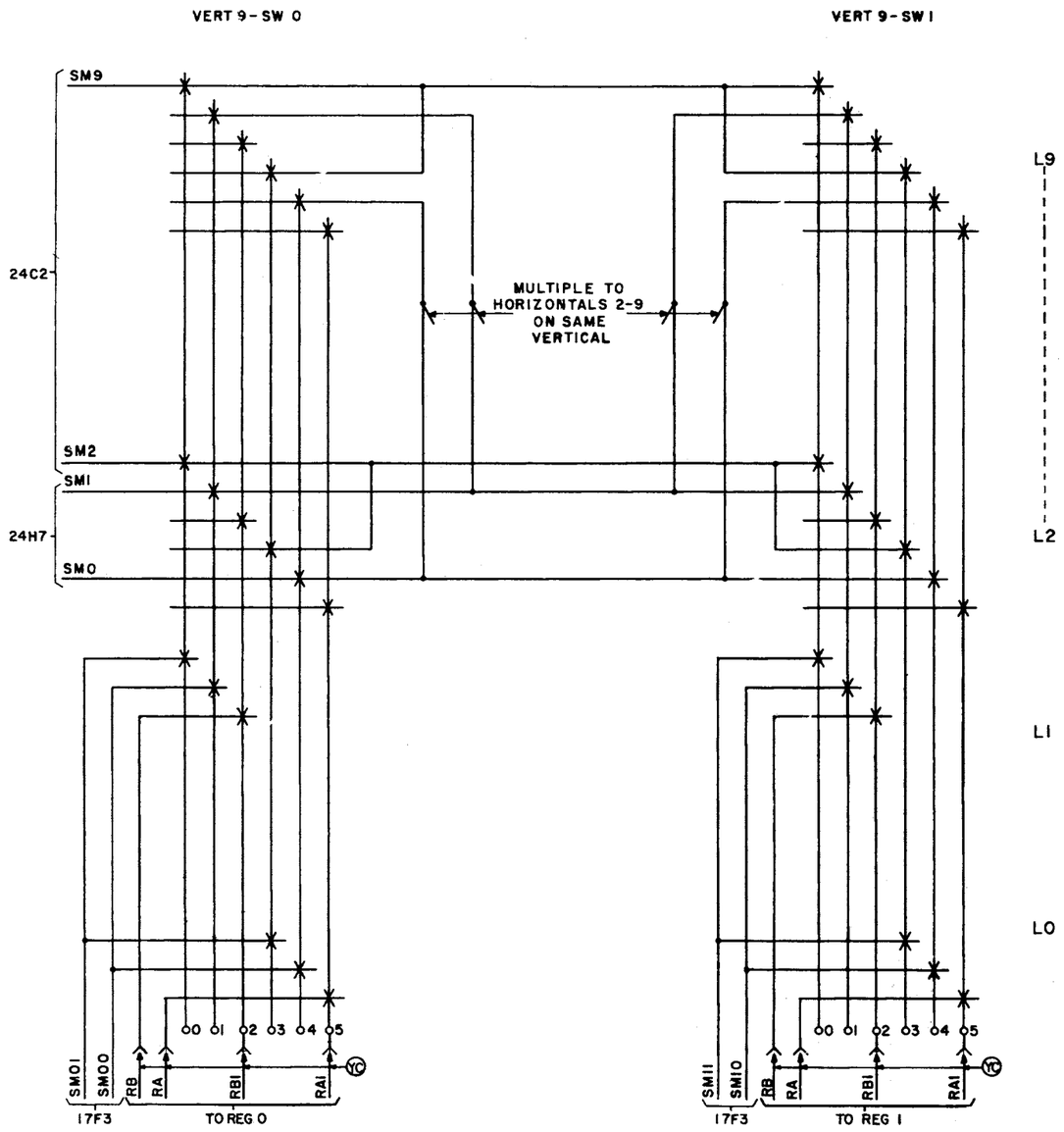
LINKS

(SEE NOTE 301 FOR ASSIGNMENT OF VERTICALS)



PBX SYSTEMS
NO. 756A
LINE, LINK AND MARKER CIRCUIT

BELL TELEPHONE LABORATORIES INCORPORATED

16

SD-65741-01-B28

SD-65741-01-B28

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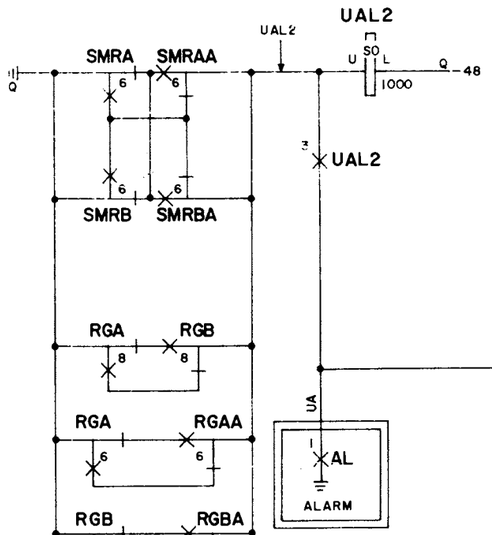
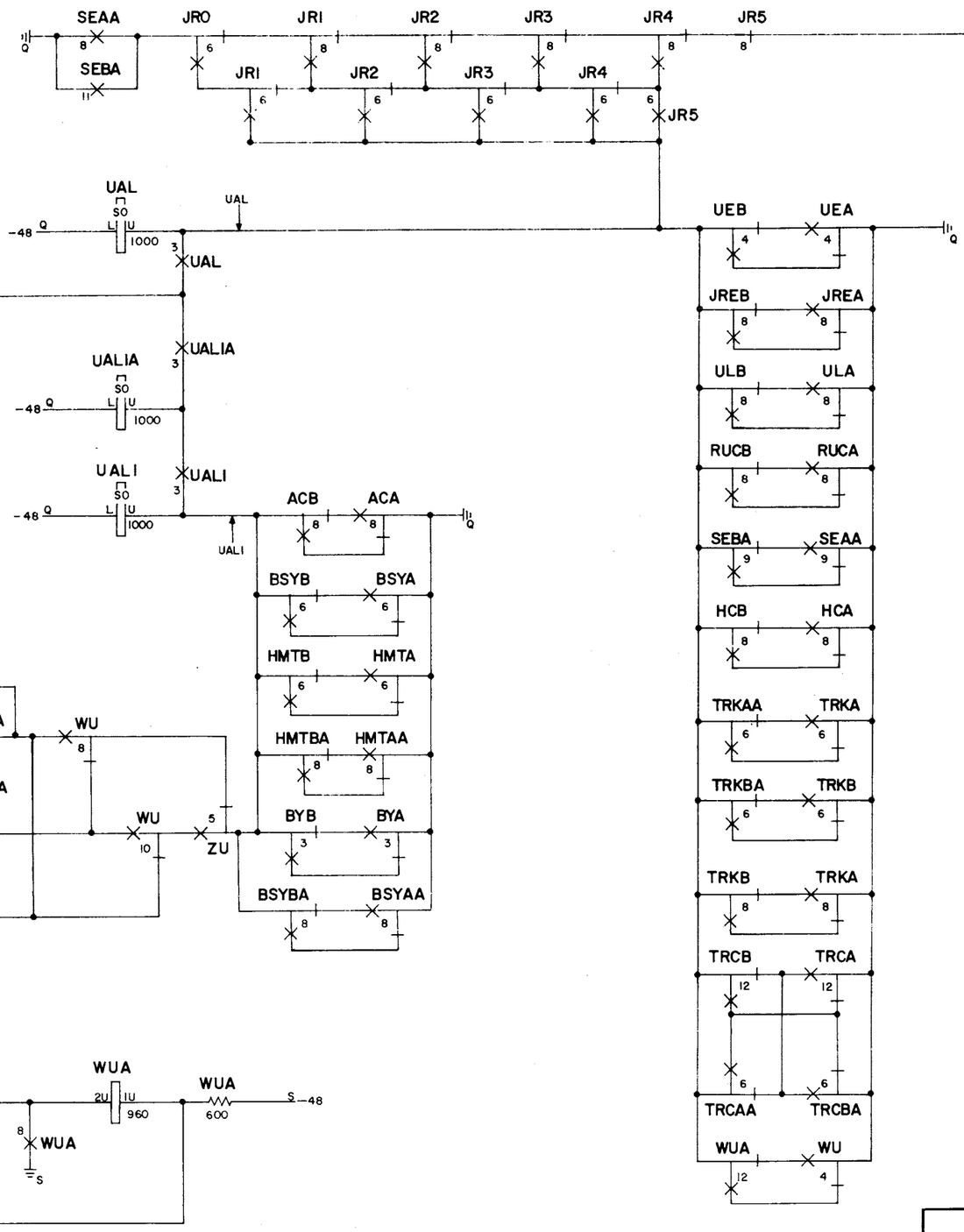
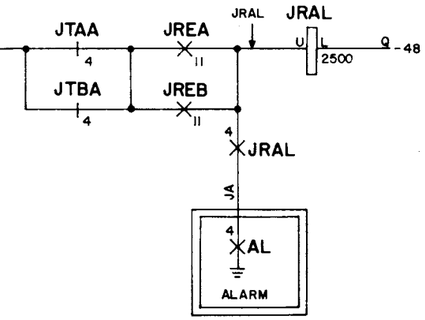
FS 18
UNITS ALARM







REL DESIG	EQUIP LOC	REL DESIG	EQUIP LOC	REL DESIG	EQUIP LOC
ACA	6V	RAOB	6G	UAL	IAA
ACB	6U	RAIA	6G	UALI	IAA
BSYA	6V	RAIB	6G	UAL2	IAA
BSYAA	6V	RCTAA	6V	UALIA	IAA
BSYB	6U	RCTBA	6U	UEA	6V
BSYBA	6U	RGA	6G	UEB	6U
BTTA	6T	RGAA	6G	ULA	6V
BTTB	6S	RGB	6G	ULB	6U
BYA	6V	RGBA	6G	WU	6L,M
BYB	6U	RUCA	6V	WUA	6L,M
COTA	6T	RUCB	6U	ZU	6L,M
COTB	6S	SAB	6J		
HCA	6Y	SEAA	6V		
HCB	6Y	SEBA	6U		
HMTA	6T	SMRA	6T		
HMTAA	6T	SMRAA	6T		
HMTB	6S	SMRB	6S		
HMTBA	6S	SMRBA	6S		
ICTA	6T	STB	6J		
ICTB	6S	TACA	6Y		
JR0-5	6X	TACAA	6Y		
JRAL	IAA	TACB	6Y		
JREA	6Y	TACBA	6Y		
JREB	6X	TRCA	6Y		
JTA	6Y	TRCAA	6Y		
JTAA	6Y	TRCB	6X		
JTBA	6X	TRCBA	6X		
RAOA	6G	TRKA	6Y		
		TRKAA	6Y		
		TRKB	6X		
		TRKBA	6X		

SHEET NOTES
A. LEAD DESIGNATIONS INDICATED BY ARROWS APPLY TO LEADS BETWEEN MARKER UNITS

DRAWING ISSUE		
1	ESP MR	WS
2B	TC RSS	WS
3B	JFD PO	JFD
4A	AD CHD	RAC
WORN DRAWING REPRODUCED WITHOUT CHANGE 12-1-66 ROZ		HW
33D	FED PJS	RHP

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LINE, LINK, AND MARKER CIRCUIT

SD-65741-01-B29

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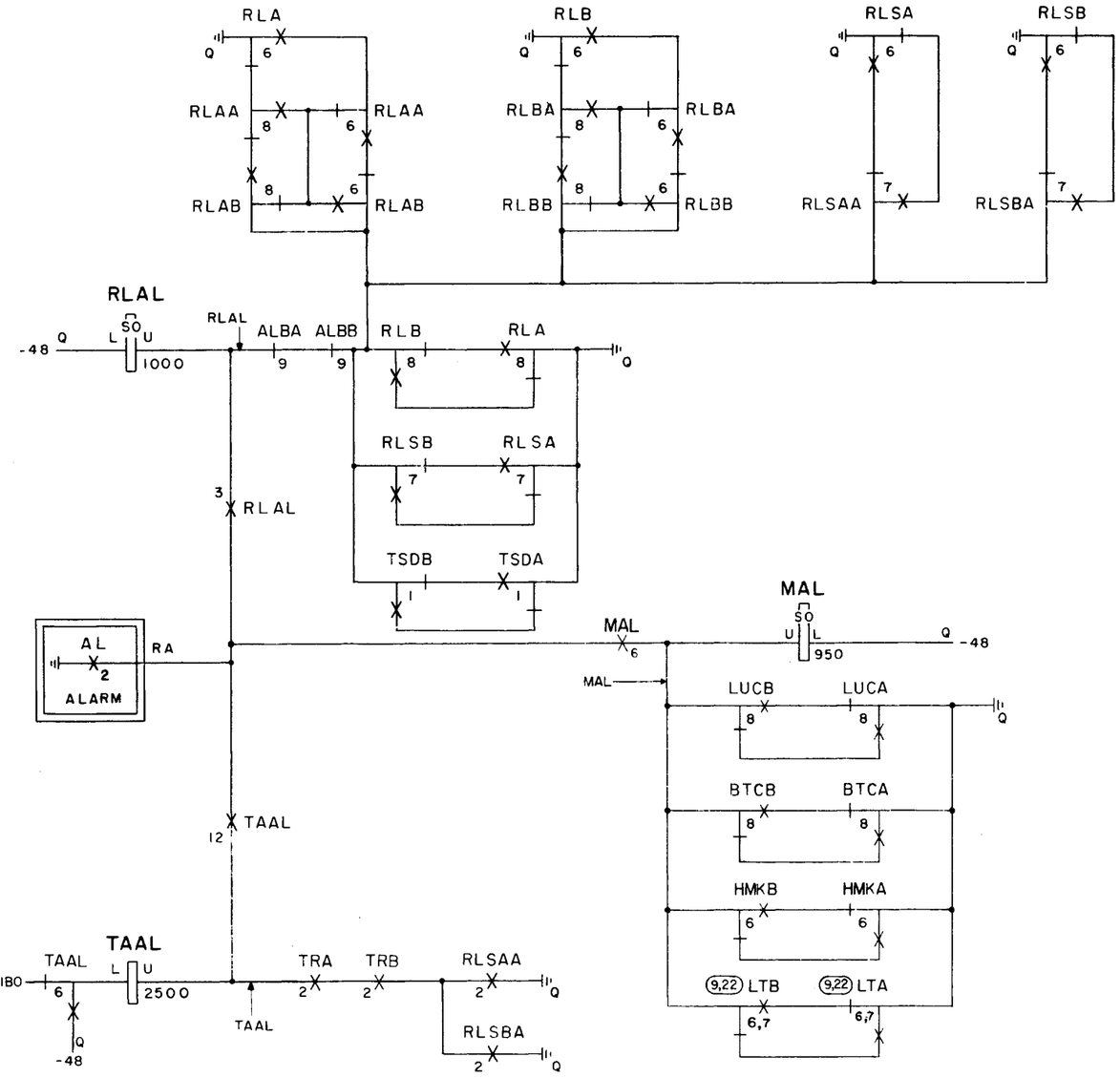
FS 19
RELEASE ALARM



REL DESIG	EQUIP LOC	REL DESIG	EQUIP LOC
ALBA	6P	RLBA	6S
ALBB	6P	RLBB	6S
BTCA	6T	RLSA	6K
BTCB	6S	RLSAA	6K
DCKA	6R		
DCKB	6R	RLSB	6J
HMKA	6V	RLSBA	6J
HMKB	6U	TAAL	IAA
LTA	6Q	TRA	6K
LTB	6Q		
LUCA	6V	TRB	6J
LUCB	6U	TSDA	6R
MAL	IAB	TSDB	6R
RCKA	6R		
RCKB	6R		
RHKA	6G		
RHKB	6G		
RLA	6T		
RLAA	6T		
RLAB	6T		
RLAL	IAA		
RLB	6S		

SHEET NOTES
A. LEAD DESIGNATIONS INDICATED BY ARROWS APPLY TO LEADS BETWEEN MARKER UNITS

DRAWING ISSUE	
1	
2B	
3B	
4A	
33D	

LINE, LINK AND MARKER CIRCUIT (2)
BELL TELEPHONE LABORATORIES INCORPORATED
DWG SIZE 6S
SD-65741-01-B30
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SD-65741-01-B30

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FS 20
TENS ALARM

REL DESIG	EQUIP LOC	REL DESIG	EQUIP LOC	REL DESIG	EQUIP LOC
ARBA	6AB	TCS4,5	3M	TRAO,I	6AB
ARBB	6AA	TCS6,7	4M	TRAL	IAA
MON2-7	SWBD	TEAO,3	6AB	TRCO,I	4Z
RCAO,I	6H	TEBO,3	6AA	TRMO,I	4Z
RCBO,I	6H				
RCCO,I	6H	THC2,3	2M	TRPO,I	6Z
RCDO,I	6H	THC4,5	3M	TRUO,I	4Z
RCEO,I	6H	THC6,7	4M	TU2,3	2M
RLAA	6T	TKO,9	4Z	TU4,5	3M
				TU6,7	4M
RLBA	6S	TK8	2L		
RO,I	6AA	TKAO,9	4Z		
RPO,I	6Z	TKA8	2L		
T2-5	6AA	TKBO,9	4Z		
T6,7	6AA	TKB8	2L		
TA2-5	6AB	TM2,3	2M		
TA6,7	6AB	TM4,5	3M		
TACAA	6Y	TM6,7	4M		
TACBA	6Y	TOKA	6K		
TAL	IAA	TOKB	6J		
TCKI-4	6Z	TP2-5	6Z		
TCS2,3	2M	TP6,7	6Z		
		TRO	6AB		
		TRI	6AA		

SHEET NOTES
A LEAD DESIGNATIONS INDICATED BY ARROWS APPLY TO LEADS BETWEEN MARKER UNITS

LINE, LINK, AND MARKER CIRCUIT	SD-65741-01-831
BELL TELEPHONE LABORATORIES INCORPORATED	DWG SIZE 6S

DRAWING ISSUE
1 P.O. 2nd MK
2B P.C. K&S
3B W.O. PD
12B PTR XM LLB
15A WW P.D.
WORN DRAWING REPRODUCED WITHOUT CHANGE 1-2-63
27D EWE SAK BFH RDZ PJS LDJ
37B

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FS 21

LINK TEST ALARM

REL DESIG	EQUIP LOC
ALBA	6P
ALBB	6P
COA	6T
COAA	6R
COAL	IAB
COB	6S
COBA	6R
CONA	6T
CONAA	6T
CONB	6S
CONBA	6S
COSA	6P
COSB	6P
LALI	IAA
LAL2	IAA
LAL2A	IAA
LBA	6Q
LBB	6Q
LCKI	6P
LCK2	6P
LEA	6Q
LEAA	6Q
LEB	6Q
LEBA	6Q
LSHA	6N
LSHB	6N
LT2-9	6P
LTAA	6Q
LTBA	6Q
SAA	6K
SMTA	6Q
SMTB	6Q
STA	6K
TRLA	6Q
TRLB	6Q
WIL	6L,M
WILA	6L,M
WL	6L,M
WLA	6L,M
WLG	6L,M
WLGA	6L,M
ZIL	6L,M
ZL	6L,M
ZLG	6L,M
XC	6P
XCAL	IAB

DRAWING ISSUE		
1	[illegible]	MT
2B	[illegible]	WS
4A	[illegible]	RBC
12B	PTK WM	P.O.B.
33D	FED RJS RHP	A HW
35D	FED RJS RHP	PMRC
37B	ROZ RJS LDJ	

SHEET NOTES:

A. LEAD DESIGNATIONS INDICATED BY ARROWS APPLY TO LEADS BETWEEN MARKER UNITS

LINE, LINK, AND MARKER CIRCUIT (2)

BELL TELEPHONE LABORATORIES INCORPORATED — SIZE 6S

37

SD-65741-01-B32

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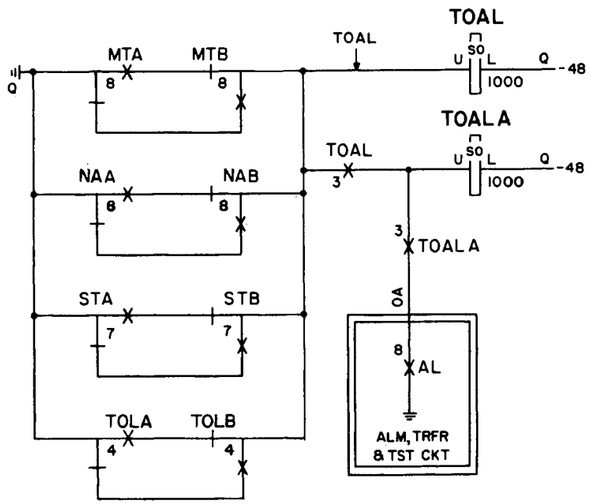
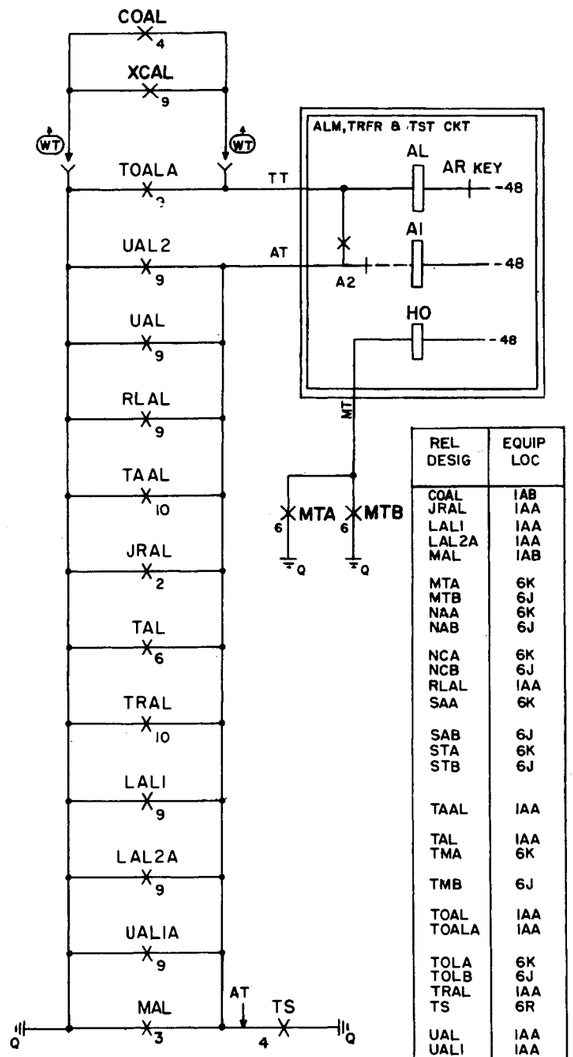
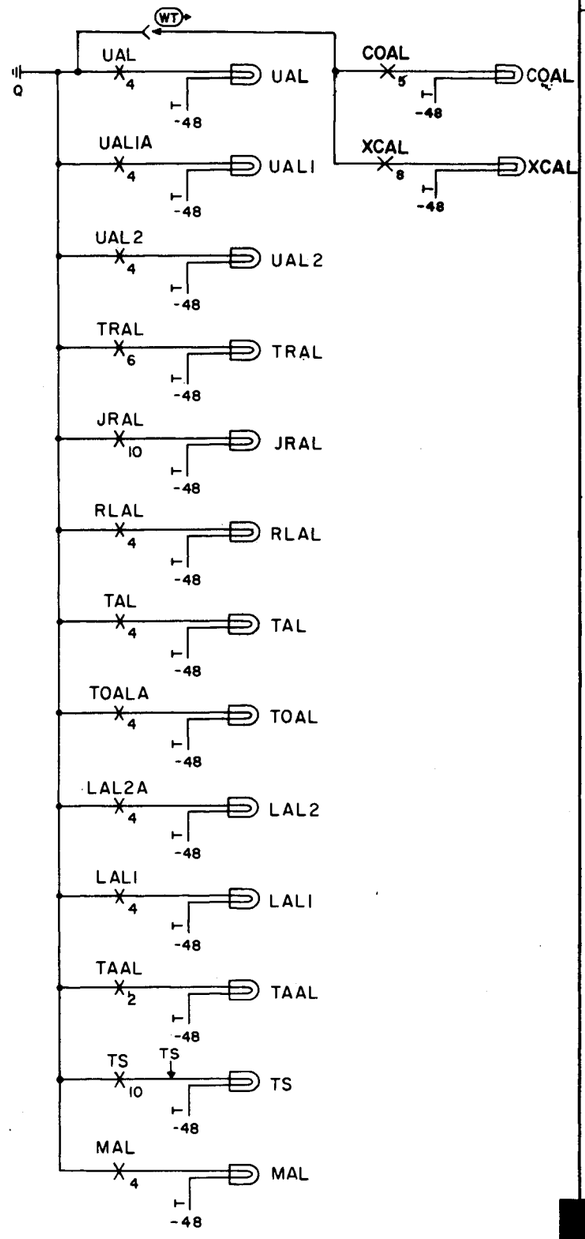
FS 22
TIME OUT ALARM AND ALARM CONTROL





REL DESIG	EQUIP LOC
COAL	IAB
JRAL	IAA
LALI	IAA
LAL2A	IAA
MAL	IAB
MTA	6K
MTB	6J
NAA	6K
NAB	6J
NCA	6K
NCB	6J
RLAL	IAA
SAA	6K
SAB	6J
STA	6K
STB	6J
TAAL	IAA
TAL	IAA
TMA	6K
TMB	6J
TOAL	IAA
TOALA	IAA
TOLA	6K
TOLB	6J
TRAL	IAA
TS	6R
UAL	IAA
UALI	IAA
UALIA	IAA
UAL2	IAA
XCAL	IAB

FS 23
ALARM LAMPS



DRAWING ISSUE

1	KGB AA RAL
2B	TRR FGJ
3B	JJD PD
12B	PTK WAL
33D	FED RJS RHP
38D	ROZ FUS LDJ

P.O.B. A HW

SHEET NOTES:
A. LEAD DESIGNATIONS INDICATED BY ARROWS APPLY TO LEADS BETWEEN MARKER UNITS

LINE, LINK, AND MARKER CIRCUIT

BELL TELEPHONE LABORATORIES INCORPORATED

SIZE 6S

38

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FS 24

TRAFFIC REGISTER CONTROL

REL DESIG	EQUIP LOC
ALBA	6P
ALBB	6P
ARBA	6AB
ARBB	6AA
BTCA	6T
BTCB	6S
BYA	6V
BYB	6U
JTAA	6Y
JTBA	6X
NAA	6K
NAB	6J
RAOA	6G
RAIA	6G
RGAA	6G
RGBA	6G
RLSAA	6K
RLSBA	6J
STAR	6K
STBR	6K
T2-5	6AA
T6,7	6AA
TKB0,9	4Z
TKB8	2L
TOLA	6K
TOLB	6J
TP2-5	6Z
TP6,7	6Z
TRO	6AB
TRI	6AA
TRA	6K
TRB	6J
TRP0,1	6Z

CROSS CONNECT AS REQ TO INTERNAL AND EXTERNAL (IF PROVIDED) TRAFFIC REGISTER CKT

ROF — ARBA 5 — ARBB 5 — TRO,1 8 Q; T2-5 8 Q; Ⓥ T6,7 8 Q

LOF — ALBA 4 S; ALBB 4 S

BTOF — BTCA 1 — BTCB 1 — BYA 7 A; BYB 7 B

OF — OF8 — TKB8 3; OF9 — TKB9 3; OF0 — TKB0 3

JOF — JTAA 12 — JTBA 12

RGAA 4 — RGBA 4 — OPC9 — CPC0 — COT — TT — PCG0 — RAOA 4 S

OPC8 — RGAA 5 — RGBA 5 — TPC0 — COT — TT — REG 0

CPC1 — COT — TT — REG 1 — PCG1 — RAIA 4 S — TPC1

TPC8 — TKB8 4 E

TPC9 — TKB9 4 S

TPC0 — TKB0 4 S

CROSS CONNECT AS REQ TO INTERNAL AND EXTERNAL (IF PROVIDED) TRAFFIC REGISTER CKT

TOPC — TOLA 6 S; TOLB 6 S

STPC — STAR 12 S; STBR 1 S

BTPC — BTCA 3 S; BTCB 3 S

JPC — JTAA 6 S; JTBA 6 S

OPC — TP2-5 5 S; Ⓥ TP6,7 5 S

NCPC — NAA 6 S; NAB 6 S

TRPC — RLSAA 1 S; RLSBA 1 S

TPC — TRP0,1 5 S

BAT — TR -48

SHEET NOTES

A. LEAD DESIGNATIONS INDICATED BY ARROWS APPLY TO LEADS BETWEEN MARKER UNITS.

B. OPTIONS "YS" AND "YT" APPLY TO LEAD IT07.

TABLE I

RELAY CONTACT	ASSOCIATED LEAD DESIGNATION			
	TRM0	TRM1	TK0	TK9
1M	ST90 (B)	IT05 (B)	IT00 (A)	IT99(A)
2M	ST91 (B)		IT01 (A)	IT98 (A)
3M	ST92(B)		IT02 (A)	IT97 (A)
4M	ST93(B)			IT96 (A)
5M	ST94(B)			IT95 (A)
7M	IT06 (B)	ST95 (B)	IT05 (A)	IT94 (A)
9M	IT07 (B)	ST96 (B)	IT06 (A)	IT93 (A)
10M		ST97 (B)	IT07 (A)	IT92 (A)
11M		ST98 (B)		IT91 (A)
12M		ST99 (B)		IT90 (A)

FS 25

TRUNK HOLD MAGNET

CON(A,B) — 9F8 — CO(A,B)

BUSY VERIFICATION AUX TRK CKT — MKBV

M(0,E) — MC — ONG

(Y) ST90-1 — (Y) ST90

1060,1062, 1064,1066, 1068,1160, 1162,1164, 1166,1168 (SEE TABLE I & NOTES 310, 312 & 315)

B — ST90-99 — (YS) — (ZZ;YA) THM00-04, 85-89 — R L 900 — BAT -48

A — IT99-90

HM -48; MC; SR; SI; HM; MC; MC -48

TE-- RL-- RLSE; TE-- RL-- RLSO — 1967 — RLS(0,E)

CENTRAL OFFICE OR RINGDOWN TIE TRK CKT

(ZZ,YA) THM80, 05,06

1160,1162,1164 (SEE TABLE I) A — IT05-07 — BUSY VERIFICATION AUX TRK CKT — BV — ITO7

1060,1160,1162 B — (YS) — (YT)

ATT TRK CKT — HD; B; TN; HM; R L 900; -48; BAT

1060,1062,1064 (SEE TABLE I & NOTE 315) A — IT00-02 — HD; B; ON; TN -48

(ZZ,YA) THM07 — R L 900 — BAT — BUSY, TONE TRK CKT -48

HM07 — RA

MB & BY DISPL CKT — BT; BT — -96 — HM07

(WR) — ITO — 1061

DRAWING ISSUE		
1	BAA MR	WS
2B	TCC FGS	WS
3B	JP PD	JFD
6A	RL BAT	TEB
9B	VZ MS	PD
11B	OL LHE	POB
12B	PTK WM	POB
16B	JOS HP POB	HO
21B	FO WVH PD	HO
23D	ZEN DHC ARM	HO HW9
28D	PUS SAK GFH	H.W.
32D	EWE SAK RHP	
WORN DRAWING REPRODUCED WITHOUT CHANGE 6-22-67 J.J.R.		
33D	FED PJS RHP	
37B	ROZ PUS LDJ	

3.7

LINE, LINK, AND MARKER CIRCUIT (2)

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FS 26
LINE CIRCUIT FOR STATION LINES OR TRUNKS

REL DESIG	EQUIP LOC
IN20-24	2N
IN25-29	2P
L20-24	2N
L25-29	2P
OT20-24	2N
OT25-29	2P
SL20-29	20

TABLE 2

CO-RELAY	(XW,VA) MON 2 (Y) a
CO-20	1
CO-21	2
CO-22	3
CO-23	4
CO-24	5
CO-25	6
CO-26	7
CO-27	8
CO-28	9
CO-29	10

TABLE 1

RELAY CONTACT	ASSOCIATED LEAD DESIGNATION TK8	TM2
1M	IT80	S20
2M	IT81	S21
3M	IT82	S22
4M	IT83	S23
5M	IT84	S24
7M	IT85	S25
9M	IT86	S26
10M	IT87	S27
11M	IT88	S28
12M	IT89	S29

SHEETS NOTES:

1. WHEN USED WITH 3A CODE CALL CKT OR INTERFACE TRUNK CKT (ANSWERING END) THE WINDINGS OF REL (L) ARE DISCONNECTED BY PLACING A 550B TOOL IN THE 1b & 2B OR 4 & 5 AND IT & 2T OR 2 & 3 CONT. OF THE LINE HOLD MAGNET OFF NORMAL SPRINGS.
2. "XC" WIRING AT IT & HM TERMINALS AND STRAPPING OF TI & R2, RI & T2 AND SI & S2 LEADS TO BE INSTALLED ONLY FOR LINE OF 20-29 SERIES ASSOCIATED WITH CONFERENCE PORT 5 OF DIAL CONFERENCE TRUNK CIRCUIT -ATT CONTROLLED.
3. ADDITION OF XD OPTION & REMOVAL OF XE OPTION TO BE INSTALLED ONLY FOR LINE OF 20-29 SERIES ASSOCIATED WITH CONFERENCE PORT 5 OF DIAL CONFERENCE TRUNK CIRCUIT-STATION CONTROLLED.
4. OPTION XY TO BE PROVIDED WHEN DIAL CONFERENCE STATION CONTROLLED IS USED WITH 608A OR 608D CORD SWITCH BOARD.
5. LEAD DESIGNATIONS INDICATED BY ARROWS APPLY TO LEADS BETWEEN MARKER UNITS.
6. OPTION WN IS TO BE PROVIDED WHEN DIAL CONFERENCE, STATION CONTROLLED, IS USED WITH 556A CORD SWBD.

DRAWING ISSUE	
1	FCD MB FEJ
2B	FD JD
3B	PD MG
8B	FGS QT
11B	LHE PJK
12B	WM QJ
13D	LHE JOS
16B	HP POB
17B	JR WVH PD
19B	EWS WVH PD
21B	FQ WVH PD
23D	ZEN DHC ARM
24D	RWB SAK KFJ
25D	GAP SAK KFJ
27D	WGN SAK GFH
30D	TAN PJS GFH
WORN DRAWING REPRODUCED WITHOUT CHANGE	11-30-66 BCM
33D	FED PJS RHP
35D	FED PJS RHP
37B	ROZ PJS LDJ

LINE, LINK, AND MARKER CIRCUIT

SD- 65741-01-B 35

BELL TELEPHONE LABORATORIES INCORPORATED

6S

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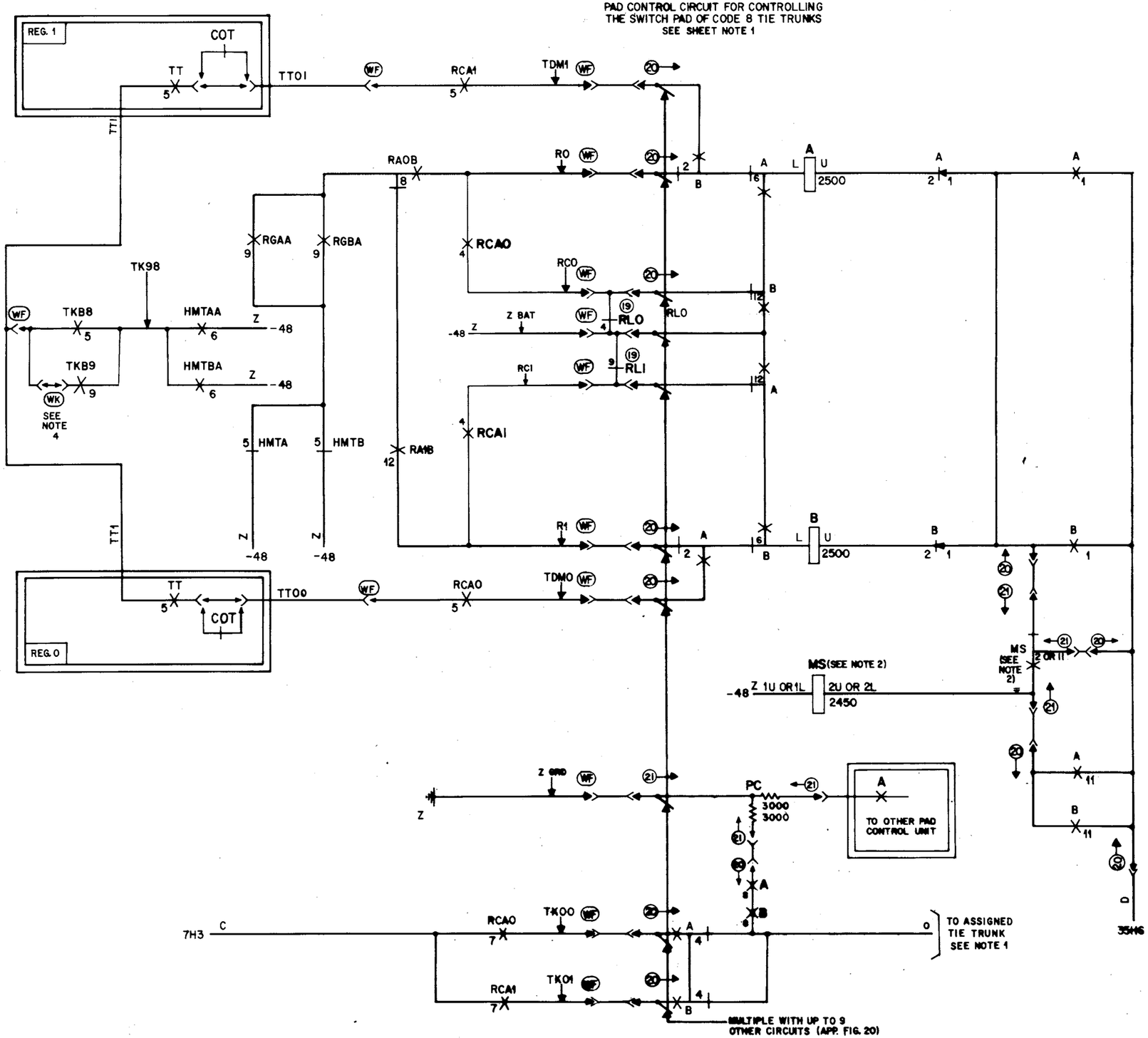
PART OF FS 27

PAD CONTROL CIRCUIT FOR CONTROLLING
THE SWITCH PAD OF CODE 8 TIE TRUNKS
SEE SHEET NOTE 1



SHEET NOTES

1. A SET OF RELAYS CONSISTING OF RELAY A, RELAY B, AND RELAY MS IS TO BE ASSIGNED TO EACH TIE TRUNK FACILITY THAT SPECIFIES PAD CONTROL.
2. SPRINGS 1 TO 5 AND COIL TERMINALS 1L & 2L OF RELAY MS ARE ASSOCIATED WITH THE ONE CIRCUIT OF THE UNIT. SPRINGS 8 TO 12 AND COIL TERMINALS 1U AND 2U ASSOCIATED WITH THE OTHER CIRCUIT OF THE UNIT.
3. LEAD DESIGNATIONS INDICATED BY ARROWS APPLY TO LEADS BETWEEN MARKER UNITS.
4. IF OPTION WK IS NOT REQUIRED, INSTALLER SHALL REMOVE LEAD FROM CONTACT 9 MAKE OF RELAY TKB9.

RELAY DESIG	EQUIP LOC
A	EXT
B	EXT
HMTA	6T
HMTAA	6T
HMTB	6S
HMTBA	6T
MS	EXT
RAOB	6G
RAIB	6G
RCAO	6H
RCAI	6H
RGAA	6G
RGBA	6G
RLO	EXT
RLI	EXT
TKB8	2L 4Z
TKB9	

DRAWING ISSUE		
30D	6-1-70	PJS
30D PM	6-1-70	PMC PJS RHP

HW

LINE, LINK, AND MARKER CIRCUIT (2)

BELL TELEPHONE LABORATORIES INCORPORATED

SD-65741-01-B36

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SD-65741-01-B36

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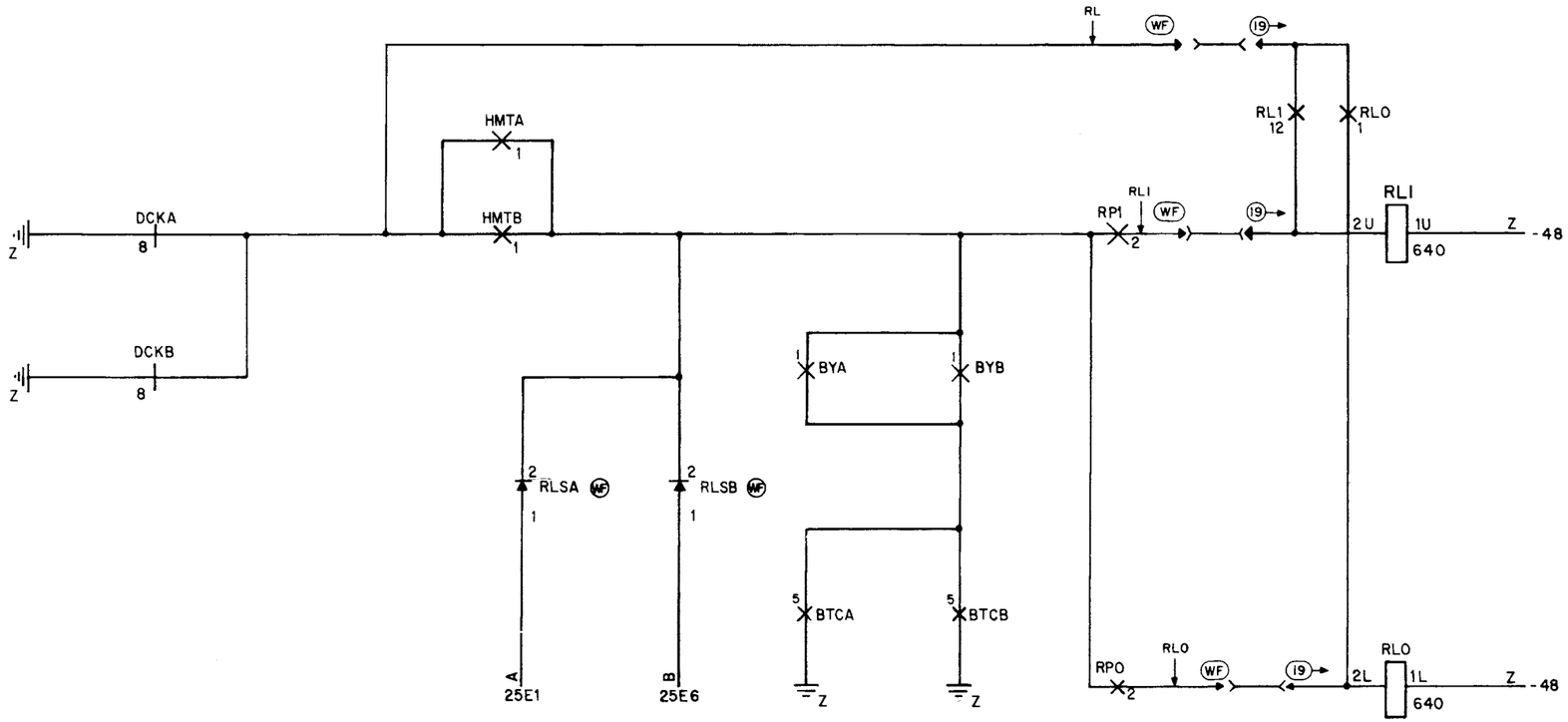
PART OF FS 27

PAD CONTROL CIRCUIT FOR CONTROLLING
THE SWITCH PAD OF CODE 8 TIE TRUNKS



SHEET NOTES

1. LEAD DESIGNATIONS INDICATED BY ARROWS APPLY TO LEADS BETWEEN MARKER UNITS.

DRAWING ISSUE

30D	PJS GFH	
34D	FED PJS RHP	

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LINE, LINK, AND MARKER CIRCUIT (2)

BELL TELEPHONE LABORATORIES INCORPORATED

DWG SIZE 6S

SD-65741-01-B37

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(22) PART OF FS 28

LINK TEST

REL DESIG	EQUIP LOC
COAA	6R
COBA	6R
CONAA	6T
CONBA	6S
LBA	6Q
LBB	6Q
LEA	6Q
LEAA	6Q
LEB	6Q
LEBA	6Q
LSHA	6N
LSHB	6N
LTAA	6Q
LTBA	6Q
LT2-9	6P
LTA	6Q
LTAA	6Q
LTB	6Q
LTCA	6N
LTCB	6N
RLAB	6T
RLBB	6S
RLSA	6K
RLSB	6J
TRLA	6Q
TRLB	6Q
XC	6P

LINE, LINK, AND MARKER CIRCUIT

BELL TELEPHONE LABORATORIES INCORPORATED

SD-65741-01-B38

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(22) PART OF FS 28

LINK TEST

DRAWING ISSUE		
33D	FED	HW
	PJS	
	RHP	
38D	ROZ	
	PJS	
	LDJ	

REL DESIS	EQUIP LOC
COAA	6R
COBA	6R
CONAA	6T
CONBA	6S
LEA	6Q
LEB	6Q
LTA	6Q
LTAA	6Q
LTB	6Q
LTBA	6Q
LTCA	6N
LTCB	6N
TKB0	4Z
TKB8	2L
TKB9	4Z
TRLA	6Q
TRLB	6Q
LT6-9	6P

LINE, LINK, AND MARKER CIRCUIT (2) SD-65741-01-B39

BELL TELEPHONE LABORATORIES INCORPORATED DWG SIZE 6S PRINTED IN U.S.A.

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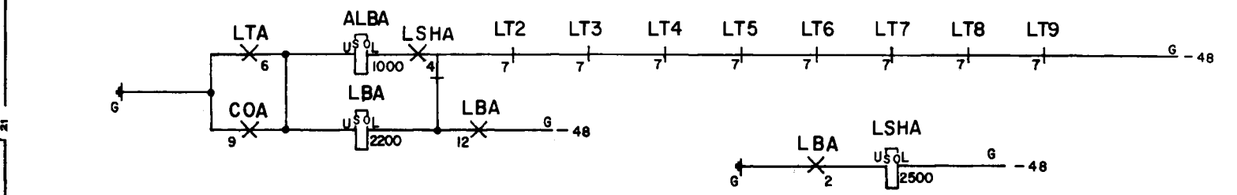
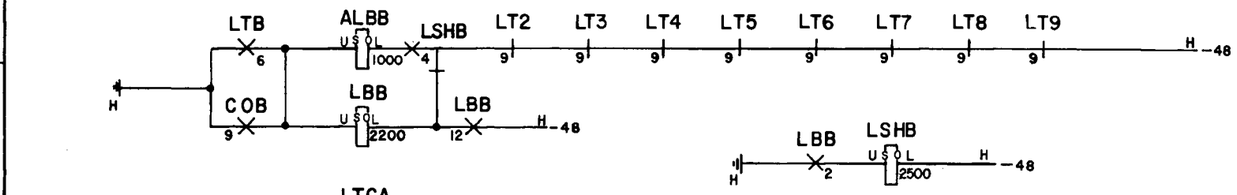
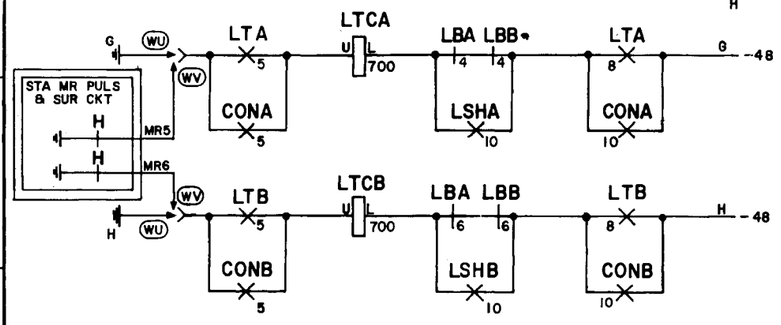
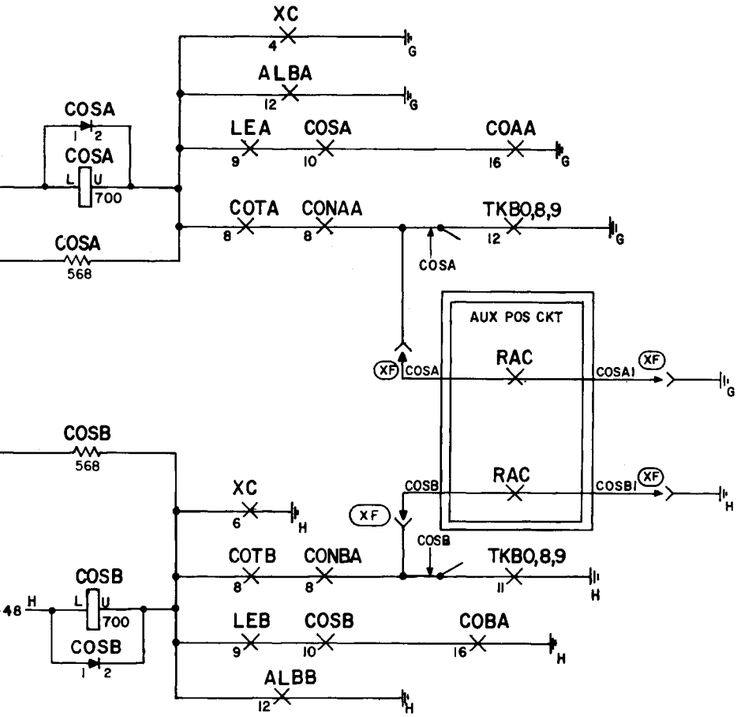
(22) PART OF FS 28
LINK TEST

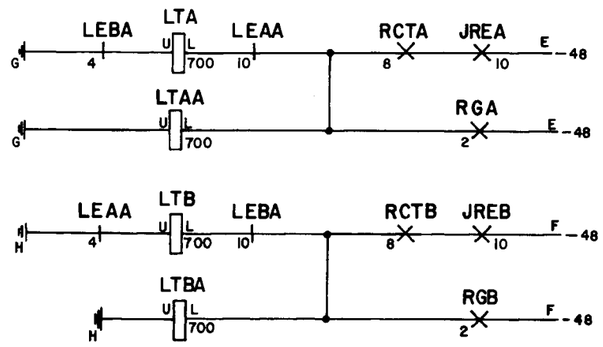


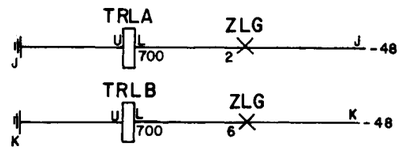


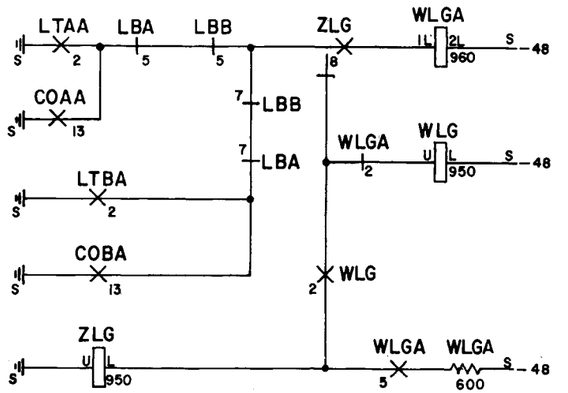




NOTES:
A. LEAD DESIGNATIONS INDICATED BY ARROWS APPLY TO LEADS BETWEEN MARKER UNITS.
B WHEN OPTION WJ IS REQUIRED THE INSTALLER SHALL ADD A STRAP BETWEEN 4 MAKE OF RELAY COAA AND 6 BREAK OF RELAY NT.







REL DESIG	EQUIP LOC
ALBA	6P
ALBB	6P
COA	6T
COAA	6R
COB	6S
COBA	6R
CONA	6T
CONAA	6T
CONB	6S
CONBA	6S
COSA	6P
COSB	6P
COTA	6T
COTB	6S
JREA	6Y
JREB	6X
LBA	6Q
LBB	6Q
LEA	6Q
LEAA	6Q
LEB	6Q
LEBA	6Q
LSHA	6N
LSHB	6N
LT2-9	6P
LTA	6Q
LTAA	6Q
LTB	6Q
LTBA	6Q
RCTA	6Y
RCTB	6X
RGA	6G
RGB	6G
TKBO	4Z
TKB8	2L
TKB9	4Z
TRLA	6Q
TRLB	6Q
WLG	6M
WLGA	6M
ZLG	6M

DRAWING ISSUE
33D JJR PJS RHF HW

SD-65741-01-B40

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LINE, LINK, AND MARKER CIRCUIT (2)

BELL TELEPHONE LABORATORIES INCORPORATED — SIZE 6S — PRINTED IN U.S.A.

SD-65741-01-B40

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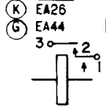
APP FIG. 1

RELAY

DESIG	IN20-29		OT20-29		L20		L21		L22		L23		L24		L25		L26		L27		L28		L29		DESIG
CODE	[10] AK7				AF141		AF141		AF141		AF141		AF141		AF141		AF141		AF141		AF141		AF141		CODE
OPTION																									OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	EBM	35F6																							12
11	EBM	35C2																							11
10	EBM	35H7			M	35H7	M	35H7	M	35H7	M	35H7	M	35H7	M	35H7	M	35H7	M	35H7	M	35H7	M	35H7	10
9	EM	35H5																							9
8	EM	35G6			EBM	35F5	EBM	35F5	EBM	35F5	EBM	35F5	EBM	35F5	EBM	35F5	EBM	35F5	EBM	35F5	EBM	35F5	EBM	35F5	8
7																									7
6					EMB	6B3	EMB	6F3	EMB	6B8	EMB	6F8	EMB	7B3	EMB	7F3	EMB	7B8	EMB	7F8	EMB	8C3	EMB	8F3	6
5			EM	35F6																					5
4			EM	35H5	M	3A0	M	3A0	M	3A0	M	3A0	M	3A0	M	3A0	M	3A0	M	3A0	M	3A0	M	3A0	4
3			EBM	35C4																					3
2			EBM	35C5																					2
1			EBM	35D7																					1
COIL		35G5		35F5		35B6		35B6		35B6		35B6		35B6		35B6		35B6		35B6		35B6		35B6	COIL

RELAY
(K) EA26
(G) EA44



	L30	L31	L32	L33	L34	L35	L36	L37	L38	L39
	(K,G)	(K,G)	(K,G)	(K,G)	(K,G)	(K,G)	(K,G)	(K,G)	(K,G)	(K,G)
	6C3	6G3	6C8	6G8	7C3	7G3	7C8	7G8	8C3	8G3
	3C0	3C0	3C0	3C0	3C0	3C0	3C0	3C0	3C0	3C0
	1D6	1D6	1D6	1D6	1D6	1D6	1D6	1D6	1D6	1D6

DESIG	SMC2		SMC3		TCS2		TCS3		THC2		THC3		TKB		TKA8		TKB8		TM2		TM3				DESIG
CODE	AF24		AF24		AF132		AF132		AF132		AF132		AF132		AF132		AF132		AF132		AF132				CODE
OPTION																									OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	M	23F7	M	23F7	M	18H3	M	18H3	M	8G0	M	8G0	M	11G7	M	8G0	M	C	M	11G8	M	11G8			12
11	M	23G7	M	23G7	M	18G3	M	18G3	M	8D0	M	8D0	M	11G6	M	8D1	M	b	M	11G6	M	11G6			11
10	M	24H6	M	24H6	M	18F3	M	18F3	M	7G5	M	7G5	M	11G4	M	7H5	M	5D2	M	11G4	M	11G4			10
9	M	24F4	M	24F4	M	18F3	M	18F3	M	7D5	M	7D5	M	11G2	M	7D5	M	5H2	M	11G3	M	11G3			9
8	M	24E4	M	24E4	BM	19G4	BM	19G4	BM	31C0	BM	31C0	BM	19D4	BM	19E4	BM	4B2	BM	31G6	BM	31G5			8
7	M	24D4	M	24D4	M	18E3	M	18E3	M	7G0	M	7G0	M	11G1	M	7H0	M	a	M	11G1	M	11G1			7
6	M	24D4	M	24D4	BM	31B0	BM	31B0	BM	24D1	BM	24E1	BM	31C8	BM	31C9	BM	31E7	BM	31F6	BM	31F5			6
5	M	24C4	M	24C4	M	18E3	M	18E3	M	7D0	M	7D0	M	10G7	M	7D1	M	36C0	M	10G8	M	10G8			5
4	M	24B4	M	24B4	M	18D3	M	18D3	M	6G5	M	6G5	M	10G6	M	6H5	M	34G0	M	10G6	M	10G6			4
3	M	24B4	M	24B4	M	18C3	M	18C3	M	6D5	M	6D5	M	10G4	M	6D5	M	34D0	M	10G4	M	10G4			3
2	M	24A4	M	24A4	M	18C3	M	18C3	M	6G0	M	6G0	M	10G2	M	6G0	M	24D1	M	10G3	M	10G3			2
1	M	24G6	M	24G6	M	18B3	M	18B3	M	6D0	M	6D0	M	10G0	M	6E1	M	24A1	M	10G1	M	10G1			1
COIL		24D0		24E0		4A0		4D0		4B0		4D0		5D6		5D6		5E6		4C0		4E0			COIL

DIODE

DESIG	LOC	CODE
(W) H	35A2	KS-15724,L2
(ZR) H	35A2	426A
(YG) H	6F5	426A
(YG) H	7H4	426A
(YJ) L	35C6	426A
(XD) SCC	35H5	446F

NETWORK

DESIG	LOC	CODE
(VG) TM2	4C0	186A
(VG) TM3	4E0	186A
TM8	5D6	186A
(VH) THC2	4B0	186A
(VH) THC3	4D0	186A

a	(WC) 21E1	
	(22) 39G4	
b	(9) 22E6	
	(22) 40H5	
c	(9) 22D6	
	(22) 40F5	

RESISTOR

DESIG	LOC	CODE
[10] S20-29	35D7	19FG
(YN) TKB8	5E6	KS-14603, L1A, 1000

DESIG	TU2		TU3																				DESIG
CODE	AF132		AF132																				CODE
OPTION																							OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	M	8F2	M	8G2																			12
11	M	8C2	M	8C2																			11
10	M	7F8	M	7G8																			10
9	M	7B8	M	7C8																			9
8	BM	31B0	BM	31B0																			8
7	M	7F3	M	7G3																			7
6	BM	a	BM	a																			6
5	M	7B3	M	7C3																			5
4	M	6F8	M	6G8																			4
3	M	6B8	M	6C8																			3
2	M	6F3	M	6G3																			2
1	M	6B3	M	6C3																			1
COIL		4B0		4E0																			COIL

	(VG) 31C0	(VG) 31C0
a		
	(VH) 4C2	(VH) 4F2

DESIG																							DESIG
CODE																							CODE
OPTION																							OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	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

DRAWING ISSUE

1	2-8-63 W.S.L. M.R.
3B	J.D. PD
5D	M.L. CND
11B	9-1-63 M.E. PD
12B	PTK WM PD
16B	JOS W.P. POB
17B	J.R. WYH PD
20AC	ENG. B.T. WYH PD
23D	ZEN DHC ARM
25D	GAP SAK KFJ
29B	WPA GFH 2-3
30D	PJS GFH
32D	EWE SAK RHP
33D	FED PJS RHP
37B	ROZ PJS LDJ

WORN DRAWING REPRODUCED WITHOUT CHANGE 12-27-63 PD

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LINE, LINK, AND MARKER CIRCUIT (2)	SD-65741-01-CI
BELL TELEPHONE LABORATORIES, INC	DWG SIZE 6S
PRINTED IN U.S.A.	37

APP FIG. 2

RELAY

DESIG	TCS4		TCS5		TSC8		TCS7		THC4		THC5		THC6		THC7		TM4		TM5		TM6		TM7		DESIG
CODE	AF132		AF132		AF132		AF132		AF132		AF132		AF132		AF132		AF132		AF132		AF132		AF132		CODE
OPTION					V		V						V		V						V		V		OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	M	18H3	M	18H3	M	18H3	M	18H3	M	8G0	M	8G0	M	8G0	M	8G0	M	11G8	M	11G8	M	11G8	M	11G8	12
11	M	18G3	M	18G3	M	18G3	M	18G3	M	8D0	M	8D0	M	8D0	M	8D0	M	11G6	M	11G6	M	11G6	M	11G6	11
10	M	18F3	M	18F3	M	18F3	M	18F3	M	7G5	M	7G5	M	7G5	M	7G5	M	11G4	M	11G4	M	11G4	M	11G4	10
9	M	18F3	M	18F3	M	18F3	M	18F3	M	7D5	M	7D5	M	7D5	M	7D5	M	11G3	M	11G3	M	11G3	M	11G3	9
8	BM	19G4	BM	19G4	BM	19G4	BM	19G4	BM	31D0	BM	31D0	BM	31F0	BM	31F0	BM	31G5	BM	31G4	BM	31G3	BM	31G3	8
7	M	18E3	M	18E3	M	18E3	M	18E3	M	7G0	M	7G0	M	7G0	M	7G0	M	11G1	M	11G1	M	11G1	M	11G1	7
6	BM	31C0	BM	31C0	BM	31E0	BM	31E0	BM	24E1	BM	24F1	BM	24F1	BM	24G1	BM	31F4	BM	31F4	BM	31F3	BM	31F2	6
5	M	18E3	M	18E3	M	18E3	M	18E3	M	7D0	M	7D0	M	7D0	M	7D0	M	10G8	M	10G8	M	10G8	M	10G8	5
4	M	18D3	M	18D3	M	18D3	M	18D3	M	6G5	M	6G5	M	6G5	M	6G5	M	10G6	M	10G6	M	10G6	M	10G6	4
3	M	18C3	M	18C3	M	18C3	M	18C3	M	6D5	M	6D5	M	6D5	M	6D5	M	10G4	M	10G4	M	10G4	M	10G4	3
2	M	18C3	M	18C3	M	18C3	M	18C3	M	6G0	M	6G0	M	6G0	M	6G0	M	10G3	M	10G3	M	10G3	M	10G3	2
1	M	18B3	M	18B3	M	18B3	M	18B3	M	6D0	M	6D0	M	6D0	M	6D0	M	10G1	M	10G1	M	10G1	M	10G1	1
COIL		4F0		4A3		4D3		4F3		4G0		4B3		4D3		4G3		4H0		4C3		4E3		4H3	COIL

RELAY

DESIG	TU4		TU5		TU6		TU7																		DESIG
CODE	AF132		AF132		AF132		AF132																		CODE
OPTION					V		V																		OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	M	8G2	M	8G2	M	8G2	M	8G2																	12
11	M	8C2	M	8C2	M	8C2	M	8C2																	11
10	M	7G8	M	7G8	M	7G8	M	7G8																	10
9	M	7C8	M	7C8	M	7C8	M	7C8																	9
8	BM	31C0	BM	31C0	BM	31E0	BM	31E0																	8
7	M	7G3	M	7G3	M	7G3	M	7G3																	7
6	BM	a	BM	a	BM	a	BM	a																	6
5	M	7C3	M	7C3	M	7C3	M	7C3																	5
4	M	6G8	M	6G8	M	6G8	M	6G8																	4
3	M	6C8	M	6C8	M	6C8	M	6C8																	3
2	M	6G3	M	6G3	M	6G3	M	6G3																	2
1	M	6C3	M	6C3	M	6C3	M	6C3																	1
COIL		4G0		4B3		4E3		4G3																	COIL
	(VG) 31D0 a (VH) 4H2		(VG) 31D0 a (VH) 4C5		(VJ) 31F0 a (VJ) 4F5		(VL) 31F0 a (VJ) 4H5																		

RELAY

(K) EA26
(G) EA44

	L40	L41	L42	L43	L44	L45	L46	L47	L48	L49	L50	L51	L52	L53	L54	L55	L56	L57	L58	L59
	(K,G)	(K,G)	(K,G)	(K,G)	(K,G)	(K,G)	(K,G)	(K,G)	(K,G)	(K,G)	(K,G)	(K,G)	(K,G)	(K,G)	(K,G)	(K,G)	(K,G)	(K,G)	(K,G)	(K,G)
	6C3	6G3	6C8	6G8	7C3	7G3	7C8	7F8	8C3	8G3	6C3	6G3	6C8	6G8	7C3	7G3	7G8	7F8	8C3	8G3
	3A3	3A3	3A3	3A3	3A3	3A3	3A3	3A3	3A3	3A3	3C3	3C3	3C3	3C3	3C3	3C3	3C3	3C3	3C3	3C3
	1D6	1D6	1D6	1D6	1D6	1D6	1D6	1D6	1D6	1D6	1D6	1D6	1D6	1D6	1D6	1D6	1D6	1D6	1D6	1D6

RELAY

(F) EA26
(E) EA44

	L60	L61	L62	L63	L64	L65	L66	L67	L68	L69	L70	L71	L72	L73	L74	L75	L76	L77	L78	L79
	(E,F)	(E,F)	(E,F)	(E,F)	(E,F)	(E,F)	(E,F)	(E,F)	(E,F)	(E,F)	(E,F)	(E,F)	(E,F)	(E,F)	(E,F)	(E,F)	(E,F)	(E,F)	(E,F)	(E,F)
	6C3	6G3	3C8	3G8	7C3	7G3	7G8	7F8	8C3	8G3	6C3	6G3	6C8	6G8	7C3	7G3	7G8	7F8	8C3	8G3
	3A6	3A6	3A6	3A6	3A6	3A6	3A6	3A6	3A6	3A6	3C6	3C6	3C6	3C6	3C6	3C6	3C6	3C6	3C6	3C6
	1D6	1D6	1D6	1D6	1D6	1D6	1D6	1D6	1D6	1D6	1D6	1D6	1D6	1D6	1D6	1D6	1D6	1D6	1D6	1D6

DIODE

DESIG	LOC	CODE
(W) H	1G3	KS-15724, L2
(ZR) H	1G3	426A

NETWORK

DESIG	LOC	CODE
(VH) THC4	4G0	186A
(VH) THC5	4B3	186A
(VJ) THC6	4D3	186A
(VJ) THC7	4G3	186A
(VG) TM4	4H0	186A
(VG) TM5	4C3	186A
(VL) TM6	4F3	186A
(VL) TM7	4H3	186A

APP FIG. 3

DESIG																									DESIG
CODE																									CODE
OPTION																									OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	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

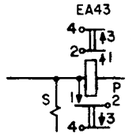
RELAY

DESIG	MON2		[5]MON3-7										DESIG
CODE	AJ5		AJ5										CODE
OPTION	Y		Y										OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	EBM	31B6	EBM	31B6									12
11	EBM	35E8	EBM										11
10	EBM	35F2	EBM	1E3									10
9	EBM	35F2	EBM	1E3									9
8	EBM	35F2	EBM	1E3									8
7	EBM	35F2	EBM	1E3									7
6	EBM	35F2	EBM	1E3									6
5	EBM	35F2	EBM	1E3									5
4	EBM	35F2	EBM	1E3									4
3	EBM	35F2	EBM	1E3									3
2	EBM	35F2	EBM	1E3									2
1	EBM	35F2	EBM	1E3									1
COIL		1F3		1F3									COIL

RELAY (Y,XW,VA) CO-20-29

CO-30-79 (Y)
CO-30-59 (XW,VA)
CO-60-79 (XX,VB)

EA43



35B3	1D3
35F2	1E3
35H3	1E4
35E2	1E3
35B2	1D2

JACK

DESIG	LOC	CODE
(ZT) L20-29	35F2	365
(ZT) L30-79	1D1	365

NETWORK

DESIG	LOC	CODE	QTY
(Y) [6] MON2-7	1G3	185A	6
(XW,VA) MONA, B	1H2	186A	2
(XX,VB) MON C	1H2	186A	1

DESIG	MON A	MON B	MON C	
CODE	AJ205	AJ205	AJ205	
OPTION	XW,VA	XW,VA	XX,VB	
	LOC	LOC	LOC	LOC
24				
23				
22	35D9			
21	31B6	31B6	31B6	
20	1E3	1E3	1E3	
19				
18				
17				
16				
15				
14				
13				
12				
11	↓			
10	35F2			
9				
8				
7				
6				
5				
4				
3				
2				
1	↓	↓	↓	
COIL	1H2	1H2	1H2	

DRAWING ISSUE

1	25A M.R. AKE	W.S
2B	2D	W.S.
3B	4D 2D	J.F.D
5D	BNL 2D	R.A.C.
12B	PJK BNL	A P.O.B.
13D	A.L. BKE	
16B	10S N.P. 20B	J.W.
22AC	JJG R.G. PD	W.G.
24D	GAP SAK KFJ	HW
25D	GAP SAK KFJ	B
27D	EWE SAK GFH	I PAGE H.W.
32D MRE	EWE SAK RHP	
37B	ROZ PJS LDJ	

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LINE, LINK, AND MARKER CIRCUIT

BELL TELEPHONE LABORATORIES, INC

SIZE 6S

SD-65741-01-C 2

SD-65741-01- C 2

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APP FIG. 4

RELAY

DESIG	ARBA		ARBB		RO		RI		RPO		RP1		T2		T3		T4		T5		T6		T7		DESIG
CODE	AF55		AF55		AJ12		AJ12		AF77		AF77		AJ12		AJ12		AJ12		AJ12		AJ12 V		AJ12 V		CODE
OPTION																									OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	M	2D7	M	2F7	EBM	2D7	EBM	2G7	M	5A2	M	5E2	EBM	382	EBM	3D2	EBM	385	EBM	3D5	EBM	3B8	EBM	3D8	12
11	M	2F7	M	2H7	EBM		EBM	2E7	M	5H6	M	5H6	EBM	31E5	EBM	31E5	EBM	31E5	EBM	31E5	EBM	31E5	EBM	31E5	11
10	BM	3F2	BM	3G3	EBM	3F1	EBM	3F2	M	13B6	M	13B6	EBM	31B3	EBM	31B3	EBM	31B3	EBM	31B3	EBM	31C3	EBM	31C3	10
9	M	2B9	M	2C9	EBM	31C7	EBM	31C7	M	13E6	M	13F6	EBM	3F4	EBM	3F5	EBM	3F6	EBM	3F7	EBM	3F7	EBM	3F8	9
8	BM	31F1	BM	25F3	EBM	3G2	EBM	3G2	M	d	M	d	EBM	34B1	EBM	34B1	EBM	34B1	EBM	34B1	EBM	34B1	EBM	34B1	8
7	B	25F5	B	25F8	EBM	1G2	EBM	1G2	M	c	M	c	EBM	3G5	EBM	3G5	EBM	3G6	EBM	3G7	EBM	3G8	EBM	3G8	7
6	BM	25F0	BM	31F1	EBM	2E0	EBM	2E0	M	17F3	M	17F3	EBM	31G8	EBM	31G8	EBM	31G8	EBM	31G8	EBM	31G8	EBM	31G8	6
5	M	34A0	M	3480	EBM	2G0	EBM	2G0	M	17E3	M	17E3	EBM	3F5	EBM	3F5	EBM	3F6	EBM	3F7	EBM	3F8	EBM	3F8	5
4	BM	3F3	BM	3H2	EBM	3H1	EBM	3H2	M	b	M	b	EBM	2F0	EBM	2F0	EBM	2F0	EBM	2F0	EBM	2F0	EBM	2F0	4
3	M	2B7	M	2C7	EBM		EBM	2D7	M	a	M	a	EBM	3H4	EBM	3H5	EBM	3H6	EBM	3H7	EBM	3H7	EBM	3H8	3
2	M	2F8	M	2H8	EBM	3F1	EBM	3F2	M	e	M	e	EBM	2H0	EBM	2H0	EBM	2H0	EBM	2H0	EBM	2H0	EBM	2H0	2
1	M	2D8	M	2E8	EBM	2D8	EBM	2G8	M	31D3	M	31D3	EBM	3B1	EBM	3D1	EBM	3B4	EBM	3D4	EBM	3B7	EBM	3D7	1
COIL		2A8		2C8		2E8		2G8		3G1		3G2		3A1		3C1		3A5		3C4		3A8		3C8	COIL

	RPO	RP1
a	A 25D0, B 16B2	A 25D0, B 16B2
b	A 25D5, B 16E2	A 25D5, B 16E2
c	A 25D8, B 16E6	A 25D8, B 16E6
d	A 25D3, B 16B6	A 25D3, B 16B6
e	WE 5H5, WF 37E5	WE 5H5, WF 37B5

RELAY

DESIG	TA2		TA3		TA4		TA5		TA6		TA7		TCK1		TCK2		TCK3		TCK4		TEA0		TEA1		DESIG
CODE	AJ31		AJ31		AJ31		AJ31		AJ31 V		AJ31 V		AK3				AK3				AF55		AF129		CODE
OPTION																									OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12													BM	26A3					BM	26C3	M	16C5	M		12
11													BM	31A2					BM	31B2	M	3D4	B	3C3	11
10	M	2C5	M	2C5	M	2C5	M	2C5	M	2D6	M	2D6									BM	2B5	BM		10
9	B	3A2	B	3C2	B	3A5	B	3C5	B	3A8	B	3C8									M	3B4	B	3A4	9
8	M		M		M		M		M		M										BM		BM	31B7	8
7	B	31E4	B	31E4	B	31E4	B	31E4	B	31E4	B	31E4									B		B	3C0	7
6	M	31B3	M	31B3	M	31B3	M	31B3	M	31C3	M	31C3									BM	31B6	BM	31B6	6
5	B	3A1	B	3C1	B	3A4	B	3C4	B	3A7	B	3C7									M	3D1	B	3A0	5
4	M	31B7	M	31B7	M	31B7	M	31B7	M	31B7	M	31B7									BM	2B4	BM		4
3																					M	3B1	B	2C1	3
2	M	2C4	M	2C4	M	2C4	M	2C4	M	2D3	M	2D3			BM	26A3	BM	26C3			M	2D1	M	18E5	2
1															BM	31A2	BM	31A3			M	2B1	B	2A1	1
COIL		2D4		2D4		2D4		2D4		2D4		2D4		3F0		3G0		3F0		3H0		2E1		2F1	COIL

DESIG	TEA2		TEA3		TEB0		TEB1		TEB2		TEB3		TP2		TP3		TP4		TP5		TP6		TP7		DESIG
CODE	AF129		AF119		AF55		AF129		AF129		AF119		AF77		AF77		AF77		AF77		AF77 V		AF77 V		CODE
OPTION																									OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	M	25F3	EM	3D8	M	16G5	M	13F6	M	25F3	EM	3D7	M	4A1	M	4D1	M	4F1	M	4A4	M	4D4	M	4F4	12
11	B	2E7	M	8D8	M	3D4	B	3C5	B	2E8	M	8D8	M	2D5	M	2D5	M	2D5	M	2D5	M	2D5	M	2D5	11
10	BM	25F8	M	8F8	BM	2C5	BM		BM	25F8	M	8G8	M	17E8	M	17E8	M	17E8	M	17E8	M	17F8	M	17F8	10
9	B	2E8	B	3C7	M	3B4	B	3A5	B	2F7	B	3C9	M	17G8	M	17G8	M	17G8	M	17G8	M	17G8	M	17G8	9
8	BM	3F1	M	3G1	BM		BM	31B6	BM	3F1	M	3G1	M	31E5	M	31E5	M	31E5	M	31E5	M	31E5	M	31E5	8
7	B	2G7	B	3A7	B	26F4	B	3C2	B	2G8	B	3A9	M	31D3	M	31D3	M	31D3	M	31D3	M	31E3	M	31E3	7
6	BM	31B6	EM	3B8	BM	31B6	BM	31B6	BM	31B6	EM	3B7	M	1F2	M	1F2	M	1F2	M	1F2	M	1G2	M	1G2	6
5	B	2G8	B	31C6	M	3D1	B	3A2	B	2G7	B	31C6	M	34E4	M	34E4	M	34E4	M	34E4	M	34E4	M	34E4	5
4	BM	25F5	M	19G6	BM	2C4	BM		BM	25F5	M	19G6	M	2D4	M	2D4	M	2D4	M	2D4	M	2D3	M	2D3	4
3	B	26G1			M	3B1	B	2C2	B				M	4C6	M	4C6	M	4C6	M	4C6	M	4C6	M	4C6	3
2	M	25F0	M	19G6	M	2D1	M	18F5	M	25F0	M	19G6	M	4B6	M	4B6	M	4B6	M	4B6	M	4B6	M	4B6	2
1	B	26F1	M	16C3	M	2B1	B	2A2	B	26G3	M	16G3	M	4A0	M	4D0	M	4F0	M	4A3	M	4D3	M	4F3	1
COIL		2F1		2F1		2G1		2H1		2H1		2H1		3G4		3G5		3G6		3G7		3G8		3G8	COIL

DESIG	TR0		TR1		TRA0		TRA1		TRP0		TRP1		DESIG
CODE	AJ12		AJ12		AJ31		AJ31		AF77		AF77		CODE
OPTION													OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	EBM	2B2	EBM	2D2					M	4D8	M	4F8	12
11	EBM	31E5	EBM	31E5					M	2A5	M	2A5	11
10	EBM	31B3	EBM	31B3	M	2B5	M	2B5	M	17F8	M	17F8	10
9	EBM	3F3	EBM	3F4	B	2A2	B	2C2	M	17H8	M	17H8	9
8	EBM	34A1	EBM	34A1	M		M		M	31E5	M	31E5	8
7	EBM	3G3	EBM	3G4	B	31E5	B	31E5	M	31D3	M	31D3	7
6	EBM	31F8	EBM	31F8	M	31B3	M	31B3	M	1F2	M	1F2	6
5	EBM	3F3	EBM	3F4	B	2B1	B	2C1	M	34G4	M	34G4	5
4	EBM	2F0	EBM	2F0	M	31B7	M	31B7	M	2A4	M	2A4	4
3	EBM	3H3	EBM	3H4					M	4C6	M	4C6	3
2	EBM	2H0	EBM	2H0	M	2B4	M	2B4	M	4A6	M	4A6	2
1	EBM	2B1	EBM	2D1					M	4D7	M	4F7	1
COIL		2A1		2C1		2A4		2A4		3G3		3G4	COIL

DIODE

	DESIG	LOC	CODE
YMVK	TP2	3F4	YM 420G, VK 446F
YMVK	TP3	3F5	YM 420G, VK 446F
YMVK	TP4	3F6	YM 420G, VK 446F
YMVK	TP5	3F7	YM 420G, VK 446F
VYMVK	TP6	3F7	YM 420G, VK 446F
VYMVK	TP7	3F8	YM 420G, VK 446F
YMVK [2]	TRP0,1	3F3	YM 420G, VK 446F

NETWORK

DESIG	LOC	CODE	
TA2	2D4	185A	
TA3	2D4	185A	
TA4	2D4	185A	
TA5	2D4	185A	
TA6	2E4	185A	V
TA7	2E4	185A	V
TEA1	2F1	186A	
TEB1	2H1	186A	
TRA0	2B4	185A	
TRA1	2B4	185A	

DRAWING ISSUE

1	2S, 2C, N.R	W.S.
2B	7CC, 6S	W.K
3B	W.P, DD	JFD
4A	R.S, CWD	RDC
8B	M.G, F&S	J.A
12B	PTR, W.P, F&S, EWG	P.O.B.
19B	WVH, PD	NY HO HO
300	WORN DRAWING ARE PHO-DUCED WITHOUT CHANGE 12-27-67	PO HW B
	RSK, PJS, GFH	
37B	ROZ, PJS, LDJ	

3379

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LINE, LINK AND MARKER CIRCUIT (2)

BELL TELEPHONE LABORATORIES, INC

SD-65741-01-C3

DWG SIZE 6S

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APP FIG. 5

RELAY

DESIG	RAOA		RAOB		RAIA		RAIB		RCAO		RCAI		RCBO		RCBI		RCCO		RCCI		RCDO		RCDI		DESIG
CODE	AJ5		AF129		AJ5		AF129		AF132		AF132		AF111		AF111		AF132		AF132		AF132		AF132		CODE
OPTION																									OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	EBM	17B8	M		EBM	17D8	M	36 D2	M	10H0	M	10H0	EM	9B2	EM	9B2	M	8H1	M	8H1	M	4B1	M	4B1	12
11	EBM	17B8	B	2A8	EBM	17A8	B	2A9	M	10H1	M	10H2	M	9D2	M	9C2	M	8D1	M	8D1	M	4D1	M	4E1	11
10	EBM		BM	18B7	EBM		BM	18C7	M	10G3	M	10G3	M	19C3	M	19D3	M	7H7	M	7H7	M	4G1	M	4G1	10
9	EBM	18C6	B	2C8	EBM	18C7	B	2C9	M	10G5	M	10G5	M	19C3	M	19C3	M	7D7	M	7D7	M	4B4	M	4B4	9
8	EBM	18D6	BM	36 B2	EBM	18D7	BM	17A8	BM	31C1	BM	31E8	EBM	4C7	EBM	4C7	BM	31D1	BM	31G8	BM	31A1	BM	31A1	8
7	EBM		B	29F1	EBM		B	29G1	M	36 H3	M	36 H3	B	4A7	B	4A7	M	7H2	M	7H2	M	4D4	M	4E4	7
6	EBM	18D6	BM	1782	EBM	18E7	BM	17D3	BM	31C1	BM	31F9	EMB	19B3	EMB	19B3	BM	31C1	BM	31E9	BM	31D1	BM	31G9	6
5	EBM	18E7	B		EBM	18E7	B	17A7	M	36 E2	"	36 A2	M	19A3	M	19B3	M	7D2	M	7D2	M	4F3	M	4E3	5
4	EBM	34F2	BM	17A3	EBM	34F3	BM	17C3	"	36B3	"	36 D3	EBM	31C1	EBM	31F8	M	6H7	M	6H7	M	4C3	M	4B3	4
3	EBM	29F1	B	2C7	EBM	29F1	B	2C7	M		M		M		M		M	6D7	M	6D7	M	4H0	M	4G0	3
2	EBM	17B7	M	29F1	EBM	17A7	M	29F1	M	17H0	M	17H2	M	9D1	M	9C1	M	6G2	M	6G2	M	4F0	M	4E0	2
1	EBM	17B7	B	2A7	EBM	17D6	B	2A7	M	17H0	M	17H2	M	9B1	M	9B1	M	6D2	M	6D2	M	4C0	M	4C0	1
COIL		17A7		17A7		17D7		17C7		5A1		5E1		5B1		5F1		5C1		5F1		5C1		5G1	COIL

NETWORK

DESIG	LOC	CODE
RAOA	17B7	186A
RAIA	17D7	186A
RCAO	5A1	186A
RCAI	5E1	186A
RGA	17F7	186A
RGB	17G7	186A

DESIG	RCEO		RCEI		RGA		RGAA		RGB		RGBA		RHKA		RHKB										DESIG
CODE	AF132		AF132		AF132		AF132		AF132		AF132		AF114		AF114										CODE
OPTION																									OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	M	4G4	M	4G4	M		M		M		M		M												12
11	M	5D6	M	5D6	M	18B6	M		M	18C6	M														11
10	M	5F6	M	5F6	M	18C6	M		M	18C6	M		M	15B6	M	15D6									10
9	M	5A6	M	5A6	M	18D6	M	36 B1	M	18D6	M	36 B1													9
8	BM	5B5	BM	5B5	BM	29B1	BM	15A6	BM	29B1	BM	15C6	BM		BM										8
7	M		M		M	17B2	M		M	17C2	M														7
6	BM	31E1	BM	31E1	BM	29C1	BM	29C1	BM	29C1	BM	29C1	BM	26B3	BM	26D3									6
5	M	31E6	M	31E6	M	18E6	M	34G0	M	18E6	M	34G0													5
4	M	5A5	M		M	18D6	M	34F0	M	18E6	M	34F0	M		M										4
3	M	5F5	M	5F5	M	17A2	M		M	17B2	M														3
2	M	5D5	M	5D5	M	a	M	24C1	M	a	M	24C1	B	26A2	B	26C2									2
1	M	4H3	M	4G3	M	26B3	M	24B1	M	26D3	M	24B1													1
COIL		5D1		5G1		17E7		17F7		17G7		17H7		17A1		17B1									COIL

a (9) 22B8 (22) 40A8

a (9) 22B5 (22) 40B8

DESIG																					DESIG
CODE																					CODE
OPTION																					OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	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

DESIG																					DESIG
CODE																					CODE
OPTION																					OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	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

DRAWING ISSUE

1	RE 4-20-66 MB
2B	FEG
9B	VZ M.S.
12B	PTK WM
16B	JOS 4-7-68 PRB
19B	EG WWH PD
30D	KLW PJS GFH
33D	FED PJS RHP
37B	ROZ PJS LDJ

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LINE, LINK, AND MARKER CIRCUIT (2)

BELL TELEPHONE LABORATORIES, INC

DWG SIZE 6S

SD-65741-01-C4

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SD-65741-01-C4

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APP FIG. 6

RELAY

DESIG	TKO		TK9				TKA0		TKA9		TKB0		TKB9				TRC0		TRC1		TRM0		TRM1		DESIG
CODE	AF132		AF132				AF132		AF132		AF132		AF132				AF132		AF132		AF132		AF132		CODE
OPTION																									OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	M	5B2	M	11G8			M		M	8G0	M	a	M	a			M	18E6	M	18H3	M		M	11G8	12
11	M		M	11G6			M		M	8D1	M	b	M	b			M		M	18G3	M		M	11G6	11
10	M	11G4	M	11G4			M	7G7	M	7H5	M		M	5C2			M		M	18G3	M	19G2	M	11G4	10
9	M	11G2	M	11G2			M	7D7	M	7D5	M		M	36C0			M		M	18F3	M	11G2	M	11G2	9
8	BM	19D5	BM	19D5			BM	19E5	BM	19E5	BM	31F7	BM	31E7			BM	31D8	BM	31C8	BM		BM	31G7	8
7	M	11G0	M	11G0			M	7G2	M	7H0	M	c	M	c			M		M	18F3	M	11G0	M	11G0	7
6	BM	31A8	BM	31B8			BM	31A9	BM	31B9	BM	31F7	BM	31E7			BM	24B1	BM	24B1	BM	31F7	BM	31F6	6
5	M		M	10G7			M	19B4	M	7D1	M	5F2	M	5G2			M	18E3	M		M	10G8	M		5
4	M		M	10G6			M	19B4	M	6G5	M	34H0	M	34H0			M	18D3	M		M	10G6	M		4
3	M	10G4	M	10G4			M	6E5	M	6D5	M	34E0	M	34D0			M	18D3	M		M	10G4	M		3
2	M	10G2	M	10G2			M	6H2	M	6G0	M	24H1	M	24H1			M	18C3	M		M	10G2	M		2
1	M	10G0	M	10G0			M	6E2	M	6E1	M	24A1	M	24A1			M	18B3	M	18E6	M	10G0	M	10G1	1
COIL		5A6		5F6				5B6		5F6		5B6		5G6				4E8		4H8		4D8		4F8	COIL

a (9) 22D6 (22) 40F5

b (9) 22E6 (22) 40H5

c (WC) 21E1 (22) 39G5

a (9) 22D6 (22) 40F5

b (9) 22E6 (22) 40H5

c (WC) 21E1 (22) 39G4

NETWORK

DESIG	LOC	CODE
TK0	5A6	186A
TK9	5F6	186A
TRM0	4D8	186A
TRM1	4F8	186A

RESISTOR

DESIG	LOC	CODE
(YN) TKA9	5G6	KS-14603,L1A,1000

RELAY

DESIG	TRU0		TRU1																						DESIG
CODE	AF132		AF132																						CODE
OPTION																									OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	M		M	8E3																					12
11	M		M	8B3																					11
10	M		M	7F8																					10
9	M	7A8	M	7B8																					9
8	BM	31D9	BM	31C9																					8
7	M	7E3	M	7F3																					7
6	BM	24H1	BM	24H1																					6
5	M	7B3	M																						5
4	M	6F8	M																						4
3	M	6B8	M																						3
2	M	6F3	M																						2
1	M	6B3	M	6A3																					1
COIL		4D8		4G8																					COIL

PART OF APP FIG. 7

RELAY

DESIG	ACA		ACB		BSYA		BSYAA		BSYB		BSYBA		BYA		BYB		HCA		HCB		HMKA		HMKB		DESIG
CODE	AJ54		AJ54		AJ54		AJ54		AJ54		AJ54		AF64		AF64		AF132		AF132		AF88		AF88		CODE
OPTION																									OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	EM		EM		EM	12D2	EM	12E3	EM	12F3	EM	12E3	EMB	15D8	EMB	15D8	M	8G1	M	8H1	M	15A8	M	15C8	12
11	M		M		M	15B3	M	12E2	M	15A3	M	12E2	M	17G4	M	17H4	M	8D1	M	8D1	B	14E3	B	14A3	11
10	EBM	17A6	EBM	17A8	EBM	15A3	EBM		EBM	15A3	EBM		M	12D3	M	12E3	M	7G6	M	7H6	M	14C3	M	14F3	10
9	B		B		B	9B2	B		B	9C2	B		BM	15G1	BM	15H1	M	7D6	M	7D6	B	16G2	B	16D2	9
8	EBM	29D4	EBM	29D4	EBM		EBM	29F5	EBM		EBM	29F4	M	9B3	M	9C3	BM	29E7	BM	29E6	BM	16C6	BM	16F6	8
7	B		B		B	15A7	B		B	15C7	B		BM	a	BM	a	M	7G1	M	7G1	B	26A4	B	26C4	7
6	EMB	15D6	EMB	15B6	EMB	29D4	EMB		EMB	29D4	EMB		EMB	12B2	EMB	12F2	BM	12D2	BM	12E2	BM	30F6	BM	30F5	6
5	B	26D5	B	26B5	B	9C0	B		B	9B0	B		BM	15F1	BM	15G0	M	7D1	M	7D1	B	16C2	B	16F2	5
4	EBM	26B5	EBM	26D5	EBM	26D4	EBM		EBM	26B4	EBM		M	12D2	M	12F3	M	6G6	M	6H6	M	16C3	M	16F3	4
3	B		B		B	9B0	B		B	9C0	B		BM	29F5	BM	29F4	M	6D6	M	6D6	B	26B5	B	26D5	3
2	M	15B6	M	15D6	M	15A1	M	12C3	M	15B1	M	12D3	M	9B1	M	9C1	M	6G1	M	6H1	M	14C0	M	14F0	2
1	M	17D7	M	17D8	M	15B1	M	12C2	M	15A1	M	12D2	M	37C3	M	37C4	M	6D1	M	6D1	B	14A0	B	14E0	1
COIL		8A7		8B7		12D3		12C3		12E3		12E3		12B3		12F2		9B1		9C1		9B4		9C4	COIL

a 34C1 26B5

a 34D1 26E5

LAMP

DESIG	LOC	CODE
CS	18A0	11B

NETWORK

DESIG	LOC	CODE
ACA	8A7	185A
ACB	8B7	185A
RCTA	14C6	186A
RCTB	14B6	186A
SEA	12B6	186A
SEB	12F6	186A
TACA	4B8	186A
TACB	4C8	186A
TRCA	14A2	186A
TRCB	14E2	186A
TRKA	14C2	186A
TRKB	14G2	186A
ULA	8G5	186A
ULB	8H5	186A

RELAY

DESIG	JR0		JR1		JR2		JR3		JR4		JR5		JREA		JREB		JTA		JTAA		JTB		JTBA		DESIG
CODE	AF132		AF132		AF132		AF132		AF132		AF132		AJ12		AJ12		AF132		AJ28		AF132		AJ28		CODE
OPTION																									OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	M	13B2	M	13C2	M	13D2	M	13E2	M	13F2	M	13G2	EBM	14C2	EBM	14F3	M	13B1	EM	34E0	M	13E1	EM	34E0	12
11	M	13B8	M	13B8	M	13B8	M	13B8	M	13B8	M	13B8	EBM	29A8	EBM	29A8	M	13C1	M	a	M	13G1	M	a	11
10	M	13B8	M	13B8	M	13B8	M	13B8	M	13B8	M	13B8	EBM	b	EBM	b	M	13D2	EBM	9B5	M	13G2	EBM	9D5	10
9	M	24C1	M	24C1	M	24C1	M	24G1	M	24G1	M	24C1	EBM	14A7	EBM	14B7	M	10G0	M	9B2	M	11F0	M	9D2	9
8	BM		BM	29A4	BM	29A5	BM	29A5	BM	29A6	BM	29A6	EBM	29C7	EBM	29C6	BM	10F2	EBM	29D1	BM	11F2	EBM	29D1	6
7	M	9H5	M	9H5	M	9H5	M	9H5	M	9H5	M	9H5	EBM	23F7	EBM	23F6	M	10F4			M	11F4			7
6	BM	29A4	BM	29A4	BM	29A4	BM	29A5	BM	29A6	BM	29A6	EBM	a	EBM	a	BM	6C6	EMB	34D4	BM	7G6	EMB	34D4	6
5	M	9F5	M	9F5	M	9F5	M	9F5	M	9F5	M	9F5	EBM	23G7	EBM	23G6	M	14H5	M	15F0	M	14H8	M	15G0	5
4	M	9E5	M	9E5	M	9E5	M	9E5	M	9E5	M	9E5	EBM	14C7	EBM	14E7	M	6G1	EBM	29A8	M	7D6	EBM	29A8	4
3	M	13B7	M	13B7	M	13B7	M	13B7	M	13B7	M	13B7	EBM	17E1	EBM	17G1	M	6D1	M	9B1	M	7G1	M	9D1	3
2	M	13B7	M	13B7	M	13B7	M	13B7	M	13B7	M	13B7	EBM	17G0	EBM	17E0	M	13B0	EBM	12A2	M	13B0	EBM	12H2	2
1	M	13B1	M	13C1	M	13D1	M	13E1	M	13G1	M	13H1	EBM	14C1	EBM	14F1	M	14H4	M	10G0	M	14H7	M	11F0	1
COIL		13A1		13C1		13D1		13E1		13F1		13G1		13A8		13B8		14A6		14H5		14B6		14G7	COIL

a 26D3 1485

b (9) 22A8 (22) 40A8

15B8

a 26B3 14A5

b (9) 22A5 (22) 40B8

15D8

(WW) 15F3

a

(WX) 12H2

(WW) 15G3

a

(WX) 12A2

DRAWING ISSUE

1	ONG N.R.	W.S.
2B	REC. F&S	W.S.
4B	A.D. CHG	R.A.C.
5D	V2 W.S.	P.D.
9B	PTK WM	P.O.B.
12B	RWG W/H PD	NY
20AC	ZEN DHC ARM	HOHC
23D	WPA GFH	NO HW9 HW
29B	MAG PJS GFH	B HW
30D	FED PJS RHP	PMRE
33D	ROZ RJS LDJ	
36B		

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LINE, LINK, AND MARKER CIRCUIT (2)

SD-65741-01-C5

BELL TELEPHONE LABORATORIES, INC

DWG SIZE 6S

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PART OF APP FIG. 7

RELAY

DESIG	LUCA		LUCB		RCTA		RCTB		RCTAA		SEAA		RCTBA		SEBA		RUCA		RUCB		SO		S1		DESIG
CODE	AF132		AF132		AF24		AF24		AK6				AK6				AF132		AF132		AJ55		AJ55		CODE
OPTION																									OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	M	8E2	M	8G2	M	14C8	M	14E8			BM	14C7			BM	16F7	M	8G1	M	8F1	M	1080	M	1082	12
11	M	8B2	M	8C2	M	14C3	M	14F2			BM	14D7			BM	29A3	M	8C1	M	8C1	M	10C0	M	10C2	11
10	M	7F7	M	7G7	M	5A2	M	5B2			BM	16C7			BM	14C7	M	7G7	M	7F6	BM	18B1	BM	18C1	10
9	M	7B7	M	7C7	M	5E2	M	5E2			BM	29D7			BM	29D6	M	7C7	M	7B6					9
8	BM	30E6	BM	30E5	M	a	M	a			BM	29A3			BM	14D7	BM	29D7	BM	29D6	BM	10E1	BM	10E3	8
7	M	7F2	M	7G2	M	17G1	M	17G1									M	7G2	M	7F1					7
6	BM	8A6	BM	8C6	M	17E1	M	17F1									BM		BM-		BM	18B2	BM	18B2	6
5	M	7B2	M	7C2	M	12H2	M	12H2	BM	23F6			BM	23G6			M	7C2	M	7B1					5
4	M	6F7	M	6G7	M	12B2	M	12B2	BM	15A8			BM	15C8			M	6G7	M	6F6	BM	10D1	BM	10D3	4
3	M	6B7	M	6C7	M	5E1	M	5E1	BM				BM				M	6C7	M	6B6	M	12D7	M	12D7	3
2	M	6F2	M	6G2	M	5A1	M	5B1	BM	29E1			BM	29E1			M	6G2	M	6F1	M	12E7	M	12E7	2
1	M	6B1	M	6C2	M	14C0	M	14F0	BM	26D4			BM	26B3			M	6C2	M	6B1	M	10C1	M	10C3	1
COIL		8F5		8H5		14C6		14D6		14C6		12E6		14E6		12F6		8D5		8E5		10C0		10C2	COIL
					a (9) 22A8 (22) 40A8		a (9) 22A5 (22) 40B8																		

DIODE

DESIG	LOC	CODE
(XH,WT)[10] S(0-9)	10C-11C-	446F

RELAY

DESIG	S2		S3		S4		S5		S6		S7		S8		S9		SEA		SEB		TRCA		TRCAA		DESIG
CODE	AJ55		AJ55		AJ55		AJ55		AJ55		AJ55		AJ55		AJ55		AF64		AF64		AJ15		AF64		CODE
OPTION																									OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	M	10B4	M	10B6	M	10B8	M	11B0	M	11B2	M	11B4	M	11B6	M	11B8	EMB	14D3	EMB	14H3	EBM	29G7	EMB	14F2	12
11	M	10C4	M	10C6	M	10C8	M	11C0	M	11C2	M	11C4	M	11C6	M	11C8	M	15C3	M	15D3	EBM	14B3	M	17F1	11
10	BM	18C1	BM	18D1	BM	18E1	BM	18E1	BM	18F1	BM	18G1	BM	18G1	BM	18H1	M	18A1	M	18A1	EBM	15D3	M	8A6	10
9																	BM	8E5	BM	8D6	EBM	15H3	BM	16G5	9
8	BM	10E4	BM	10E6	BM	10E8	BM	11E1	BM	11E3	BM	11E4	BM	11E6	BM	11E8	M	18A2	M	18A1	EMB	14A2	M	5C7	8
7																	BM	8D5	BM	8E6	EBM	14C6	BM	25G3	7
6	BM	18C2	BM	18D2	BM	18D2	BM	18E2	BM	18F2	BM	18F2	BM	18G2	BM	18H2	EMB	12D4	EMB	12F4	EMB	9H6	EMB	29G6	6
5																	BM	b	BM	b	EMB	14A1	BM	a	5
4	BM	10D4	BM	10D6	BM	10D8	BM	11D1	BM	11D3	BM	11D4	BM	11D6	BM	11D8	M	15C1	M	15D1	EBM	a	M	23F6	4
3	M	12D7	M	12D7	M	12D7	M	12D7	M	12D7	M	12D7	M	12D7	M	12D7	BM	14D0	BM	14H0	EBM	15H0	BM	14F1	3
2	M	12E7	M	12E7	M	12E7	M	12E7	M	12E7	M	12E7	M	12E7	M	12E7	M	9C8	M	9D8	EBM	26A1	M		2
1	M	10C4	M	10C6	M	10C8	M	11C1	M	11C3	M	11C4	M	11C6	M	11C8	M	a	M	a	EBM	14B0	M	9E6	1
COIL		10C4		10C6		10C7		11C0		11C2		11C4		11C6		11C7		12D6		12E6		14A2		14B2	COIL
																	(WW) 15F1 a (WX) 15F3		(WW) 15G1 a (WX) 15F3		a 15D1 14D5		a 16D3 17E1	
																	(WW) 15E1 b (WX) 15E3		(WW) 15F1 b (WX) 15G3					

RELAY

DESIG	TRCB		TRCBA		TRKA		TRKAA		TRKB		TRKBA		U0		U1		U2		U3		U4		U5		DESIG
CODE	AJ15		AF64		AF88		AJ12		AF88		AJ12		AK2				AK2				AK2				CODE
OPTION																									OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	EBM	29G6	EBM	14B2	M	14C3	EBM	14C2	M	14G3	EBM	14G2	M	10C0			M	10C4			M	10C8			12
11	EBM	15H3	M	17F1	B	5C6	EBM	15A7	B	5C7	EBM	15C7	M	10B8			M	10B4			M	10B8			11
10	EBM	15E3	M	8C6	M	14A3	EBM	25H5	M	14E3	EBM	25G5	M	6B1			M	6B6			M	7B1			10
9	EBM	14F3	BM	16D5	B	9E6	EBM	15H2	B	9E6	EBM	15C2	M	8D7			M	8D7			M	8D7			9
8	EMB	14E2	M	5C7	BM	29F7	EBM	25G5	BM	29F6	EBM	25H5	M	8F7			M	8F7			M	8F7			8
7	EBM	26C1	BM	25H3	B	9E6	EBM	23G4	B	15H2	EBM	15D2													7
6	EMB	9G6	EMB	29G7	BM	29E7	EBM	29E6	BM	29F7	EBM	29F6													6
5	EMB	14E1	BM	a	B	9B6	EBM	a	B	9D6	EBM	a			M	10C2			M	10C6			M	11C0	5
4	EBM	a	M	23H6	M	14A0	EBM	9G6	M	14E0	EBM	9G6			M	10B2			M	10B6			M	11A0	4
3	EBM	14F0	BM	14B1	B	15D1	EBM	25G3	B	9E6	EBM	23F4			M	6F1			M	6F6			M	7F1	3
2	EBM	14D6	M		M	14C0	EBM	14C1	M	14G0	EBM	14G1			M	8E7			M	8E7			M	8E7	2
1	EBM	15H0	M	9E6	B	15C1	EBM	15H1	B	15H1	EBM	25H3			M	8G7			M	8G7			M	8G7	1
COIL		14E2		14E2		14C2		14B2		14F2		14F2		6B1		6E1		6B6		6E6		7B1		7E1	COIL
	a	15E1 14C5	a	17E1 16G3			a	23F0 25H3			a	23G0 25G3													

RELAY

DESIG	U6		U7		U8		U9		UEA		UEB		ULA		ULB		TACA		TACAA		TACB		TACBA		DESIG
CODE	AK2				AK2				AF55		AF55		AF132		AF132		AF24		AF55		AF24		AF55		CODE
OPTION																									OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	M	11C2			M	11C6			M	14C3	M	14G3	M	8F0	M	8F1	M	8F6	M	17B8	M	8G6	M	17B8	12
11	M	11A2			M	11A6			M		M		M	8C0	M	8C1	M	8H6	M	17D8	M	8H6	M	17D8	11
10	M	7B6			M	8B1			BM	12E4	BM	12E4	M	7F5	M	7F6	M	8D9	BM	a	M	8D9	BM	b	10
9	M	8D7			M	8D7			M	12G2	M	12G2	M	7B5	M	7B6	M	8G9	M	25E8	M	8F9	M	a	9
8	M	8F7			M	8F7			BM	8F5	BM	8F6	BM	29C7	BM	29C6	M	8A8	BM	31B1	M	8A8	BM	31B1	8
7									B	13B0	B	13B0	M	7F0	M	7F1	M	8C7	B	29E2	M	8C7	B	29F2	7
6									BM	8H5	BM	8H6	BM		BM		M	8C6	BM	25E5	M	8C6	BM	25E5	6
5			M	11C4			M	11C8	M	14C0	M	14G0	M	7B0	M	7B1	M	8A5	M	17G7	M	8A5	M	17H7	5
4			M	11A4			M	11A8	BM	29B7	BM	29B6	M	6F5	M	6F6	M	25E0	BM	12B4	M	25E0	BM	12C4	4
3			M	7F6			M	8F1	M	12C2	M	12B2	M	6B5	M	6B6	M	29E2	M	17E7	M	29F2	M	17F7	3
2			M	8E7			M	8E7	M	9B8	M	9D8	M	6F0	M	6F1	M	8H4	M	17D7	M	8H4	M	17D6	2
1			M	8G7			M	8G7	M	12D4	M	12E4	M	6B0	M	6B1	M	8F4	M	17B7	M	8G4	M	17B6	1
COIL		7B6		7F6		8B0		8E0		8D8		8F8		8G5		8H5		4A8		48B		4C8		4C8	COIL
																			a	25E3 (YL) 25G5			q (YK) 25E8 (YL) 25E3 b (YK) 25E3 (YL) 25E8 (YL) 25H5		

DESIG	RPA0	RPA1
CODE	AJ202	AJ202
OPTION		
24	8E9	8E9
23	8G9	8G9
22	14A8	14B8
21	14B8	14B8
20	14C8	14C8
19	14D8	14E8
18	15F6	15G6
17	15F6	15G6
16	d	d
15	c	c
14	8D6	8D6
13	8E6	8E6
12	8E4	8E4
11	8D4	8D4
10	19E0	19E0
9	19D0	19D0
8	b	b
7	a	a
6	17H5	17F5
5	17G5	17E5
4	17G5	17E5
3	17F5	17E5
2	14F0	14F0
1	14B0	14B0
COIL	5H6	5H6

a (A) 16B2 (B) 25D0
b (A) 16E2 (B) 25D5
c (A) 16E6 (B) 25D8
d (A) 16B6 (B) 25D3

DRAWING ISSUE

1	BHC M.R.	W.S.
2B	T.C. P.G.S.	W.S. R.A.C.
4A	A.D. GWP	
8B	T.S. P.G.S.	W.S. APQ
12B	PTK PFM	
19B	BWG WWH FD	HON HO! BWG HW
24D	WPA SAK KFJ	
28D	RJS SAK GFH	
33D	FED PJS RHP	B
36B	ROZ PJS LDJ	

LINE, LINK, AND MARKER CIRCUIT (2)

BELL TELEPHONE LABORATORIES, INC

DWG SIZE 6S

SD-65741-01-C6

36

SD-65741-01-C6

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APP FIG. 8

RELAY

DESIG	BTCA		BTCB		BTTA		BTTB		COA		COB		CONA		CONAA		CONB		CONBA		COTA		COTB		DESIG
CODE	AF55		AF55		AJ12		AJ12		AJ12		AJ12		AF132		AJ15 WT		AF132		AJ15 WT		AF55		AF55		CODE
OPTION																									OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	M	15B8	M	15D8	EBM	14A3	EBM	14E3	EBM	b	EBM	b	M	15B3	EBM	39E7	M	15B3	EBM	39E7	M	16B6	M	16E6	12
11	M	10G1	M	10G1	EBM	16C5	EBM	16F5	EBM	15B3	EBM	15A3	M	15F3	EBM	39B7	M	15G3	EBM	39B7	M	35C3	M	35C3	11
10	BM	d	BM	d	EBM	19E4	EBM	19F4	EBM	23F5	EBM	23G5	M	b	EBM	39E2	M	b	EBM	39E2	BM	16C5	BM	16F5	10
9	M	12B3	M	12G3	EBM	13B2	EBM	13B3	EBM	a	EBM	a	M	14B3	EBM	39B2	M	14E3	EBM	39B2	M		M		9
8	BM	30F6	BM	30F5	EBM	b	EBM	b	EBM	32E2	EBM	32E2	BM	32C5	EMB	40F4	BM	32C5	EMB	40H4	BM	a	BM	a	8
7	B	c	B	c	EBM	13E2	EBM	13E3	EBM	9F8	EBM	9E8	M	14B0	EBM	32F5	M	14E0	EBM	32G5	B	16F4	B	16C4	7
6	BM	a	BM	a	EBM	29E1	EBM	29E1	EBM	9E8	EBM	9E8	BM	32F5	EMB	32B0	BM	32G5	EMB	32B0	BM	29G1	BM	29G1	6
5	M	37E3	M	37E4	EBM	14B5	EBM	14A6	EBM	17F2	EBM	17F2	M	a	EMB		M	a	EMB		M	16H2	M	16H2	5
4	BM	17G4	BM	17H4	EBM	a	EBM	a	EBM	32C5	EBM	32C5	M	15F0	EBM	38D7	M	15G0	EBM	38D7	BM	16C3	BM	16F3	4
3	M	34C4	M	34C4	EBM	14A5	EBM	14B6	EBM	17E2	EBM	17E2	M	15B1	EBM	38B7	M	15B1	EBM	38B8	M	9B5	M	9D5	3
2	M	b	M	b	EBM	16C3	EBM	16F3	EBM	19F4	EBM	19G4	M	9D7	EBM	38D2	M	9D8	EBM	38D2	M	19G4	M	19H4	2
1	M	34C0	M	34C0	EBM	14A0	EBM	14E0	EBM	15A1	EBM	15B1	M	9B7	EBM	38B2	M	9B8	EBM	38B2	M	16B3	M	16E3	1
COIL		15H2		15H2		16F4		16F4		16B4		16E4		16B4	16A4			16E4		16E4		15F6		15G6	COIL
	a	26C5 24B0	a	26E5 24C0	a	15A0 15H0	a	15B0 15H0	a	(9) 22A0 (22) 40A0	a	(9) 22D0 (22) 40C0	a	(9) 22H1 (22) 40D0			a	(9) 22H6 (22) 40E0			a	(9) 22D5 (22) 40F3	a	(9) 22E5 (22) 40H3	
	b	(WY) 6C1 (WZ) 15G1	b	(WY) 6C1 (WZ) 15H1	b	15A4 15H3	b	15B4 15H3	b	19G4 (WT) 16C4	b	19F4 (WT) 16G4	b	(9) 22H5 (22) 40D2			b	(9) 22H7 (22) 40E2							
	c	(WY) 26H7 (WZ) 26G8	c	(WY) 26F7 (WZ) 26F8																					
	d	(WY) 26F8 (WZ) 26F7 6C1	d	(WY) 26G8 (WZ) 26H6 6C1																					

DIODES

	DESIG	LOC	CODE
(XA)	CC1	16C4	446F
(XA)	CC2	16F4	446F
(WT)	CO1	9C7	446F
	CO2	9C8	446F
	CO3	9D7	446F
	CO4	9D8	446F
(WT)	DI	38B3	446F
	D2	39B3	446F
(XV)	HE	2C7	446F
(XV)	HO	2B7	446F
(XV)	HA	2B7	446F
(XV)	HB	2C7	446F

DIODES (CONT)

	DESIG	LOC	CODE
(XH,WT)	LTSA	20G1, 38D0	446F
	LTSB	21F0, 39E5	446F
(WC,WT)	LTSC	21E2, 39G5	446F

NETWORK

DESIG	LOC	CODE
RLA	15A6	186A
RLB	15D6	186A
SMRA	15E2	186A
SMRB	15G2	186A
SOA	15A2	186A
SOB	15B2	186A

RELAY

DESIG	DCKA		DCKB		HMTA		HMTAA		HMTB		HMTBA		ICTA		ICTB				RCKA		RCKB		RLA		DESIG
CODE	AF10		AF10		AJ62		AJ54		AJ62		AJ54		AF140		AF140				AF87		AF87		AF88		CODE
OPTION																									OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	EM	26A5	EM	26D5	M	14D3	EM	19E2	M	14G3	EM	19E2	EM	16D5	EM	16G5							M	2A9	12
11					M	9D6	M	15E2	M	9B6	M	15C2	BM	29F1	BM	29F1							B	a	11
10	M	26F4	M	26G4	EBM	17A1	EBM	15D2	EBM	17B1	EBM	15E2	M	14B3	M	14F3			EBM		EBM		M	2C9	10
9					EB	26A1	B	17H0	EB	26C1	B	17H2	B	13E3	B	13E3							B	b	9
8	EBM	37B0	EBM	37C0	EMB		EBM	29E4	EMB		EBM	29E4	M	5C8	M	5C8			EMB	2B4	EMB	2B5	BM	30C4	8
7	B	15A6	B	15C6	EB	9D5	B	19F6	EB	9B5	B	19F7	B	13B3	B	14B5							B		7
6	EMB	15A5	EMB	15C5	EMB	29E4	EMB	36C1	EMB	29E4	EMB	36C1	EM	16D3	EM	16G3			EMB	25E1	EMB	25E6	BM	30A3	6
5					B	36D1	B	19E6	B	36D1	B	19E7	B	14B6	B	13B3			EM		EM		B	25F6	5
4	M		M		EBM	9B6	EBM	19D2	EBM	9D6	EBM	19D2	M	6H2	M	6H2			EB	25E2	EB	25E7	M	2D7	4
3					EB	17B1	B	17H2	EB	17A1	B	17H0	B	14B5	B	14A6							B	25F1	3
2	M	26F1	M	26G1	M	14D0	M	15D1	M	14G0	M	15E1	M	5C5	M	5C5							M	2B7	2
1					M	37B2	M	15E1	M	37B2	M	15C1	M	14B0	M	14E0							B	19H4	1
COIL		26A5		26C5		15D2		15C2		15E2		15D2		16D4		16G4				26A7		26B7		15A6	COIL
																							a	(YR) 19D1 (WM) 19D3	
																							b	(YR) 19E1 (WM) 19E3	

RELAY

DESIG	RLAA		RLAB		RLB		RLBA		RLBB		SMRA		SMRAA		SMRB		SMRBA		SOA		SOB		TS		DESIG
CODE	AJ5		AF88		AF88		AJ5		AF88		AF132		AF132		AF132		AF132		AF82		AF82		AF10		CODE
OPTION																									OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	EBM	31D4	M	2A6	M	2B9	EBM	31D4	M	2B6	M	11B9	M	11D8	M	11C9	M	11E8	EM	16C7	EM	16F7	EM		12
11	EBM	3F1	B	d	B	a	EBM	3F1	B	d	M	11B7	M	11D6	M	11C7	M	11E6	M	11A9	M	11A7			11
10	EBM	31G1	M	15B6	M	2C9	EBM	31F1	M	15D6	M	11B5	M	11D4	M	11C5	M	11E4	M	11A5	M	11B5	M	33G7	10
9	EBM	3G1	B	23G3	B	25F2	EBM	3G1	B	23F3	M	11B3	M	11D2	M	11C3	M	11E2	M	11A3	M	11B3			9
8	EBM	30B3	BM	30B3	BM	30C3	EBM	30B4	BM	30B4	BM	15F1	BM	16C2	BM	15G0	BM	16F2	EBM	907	EBM	9B7	EBM		8
7	EBM	b	B	b	B	25F7	EBM	b	B	b	M	11B1	M	11D0	M	11C1	M	11E0	M	11A1	M	11B1	B		7
6	EBM	30B3	BM	30B3	BM	30A4	EBM	30B5	BM	30B5	BM	29A1	BM	29A1	BM	29A1	BM	29A1	EMB	10B7	EMB	10B7	EMB		6
5	EBM	26D0	B	23F1	B	b	EBM	26A0	B	23G1	M	10B9	M	10D8	M	10C9	M	10E8	M	10B9	M	10B9			5
4	EBM	a	M	17F4	M	2C7	EBM	a	M	17G4	M	10B7	M	10D6	M	10C7	M	10E6	EBM	9B7	EBM	9D7	M	33G4	4
3	EBM	3H1	B	c	B		EBM	3H1	B	c	M	10B5	M	10D4	M	10C5	M	10E4	M	10B5	M	10B5			3
2	EBM	26A0	M	2A3	M	2B7	EBM	26C0	M	2B3	M	10B3	M	10D2	M	10C3	M	10E2	M	10B1	M	10B3	M	19D1	2
1	EBM	3F1	B	a	B	19H4	EBM	3F1	B	a	M	10B1	M	10D0	M	10C1	M	10E0	M	16C1	M	16F1			1
COIL		15B6		15B6		15C6		15D6		15E6		15E2		15F2		15F2		15G2		15A2		15B2		19D2	COIL
	a	(YB) 12B3 (YC) 19F7	a	(YB) 19F7 (YC) 12B3	a	(YR) 19D1 (WM) 19D4	a	(YB) 12F3 (YC) 19G7	a	(YB) 19G7 (YC) 12F3															
	b	(YB) 12F3 (YC) 19G7	b	(YB) 19G7 (YC) 12F3	b	(YR) 19E1 (WM) 19E3	b	(YB) 12B3 (YC) 19F7	b	(YB) 19F7 (YC) 12B3															
			c	(9) 23A4 (22) 38H1					c	(9) 23B4 (22) 38H6															
			d	(9) 23B5 (22) 38H7					d	(9) 23A5 (22) 38H3															

RELAY

DESIG	TSDA		TSDB		TT		BTTC		CCC				CONAA		CONBA		DESIG
CODE	AJ12		AJ12		AJ19		AK7 XA						AF132 WS		AF132 WS		CODE
OPTION																	OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	EBM		EBM						EBM	16C4			M	15C3	M	15D3	12
11	EBM	19D5	EBM	19D5					EBM	16F5			M	21D2	M	21B2	11
10	EBM	19D5	EBM	19D5					EBM	16B5			M	21A2	M	21A2	10
9	EBM	19D4	EBM	19D4					EM	16F3			M	20F6	M	20E6	9
8	EBM	19D4	EBM	19D4	M	18E5			EM	16B3			BM	22D5	BM	22E5	8
7	EBM	19D3	EBM	19D3	B								M	20C6	M	20D6	7
6	EBM	19D3	EBM	19D3	M								BM	32F5	BM	32G5	6
5	EBM	19D5	EBM	19D5	B		EM						M	20A6	M	20A5	5
4	EBM	19D6	EBM	19D5			EM						M	20F1	M	20F1	4
3	EBM	19D6	EBM	19D6			EBM						M	20C1	M	20D1	3
2	EBM	19D7	EBM	19D7			EBM	19D2					M	20A1	M	20A1	2
1	EBM	30F4	EBM	30F3			EBM	19E2					M	15C1	M	15D1	1
COIL		18E5		18F5		18B5		16C5		16D1				16B4		16E4	COIL

DESIG	COAA		COBA	
CODE	AJ202		AJ202	
OPTION	WS LOC	WT LOC	WS LOC	WT LOC
24	15C3	15C3	15D3	15D3
23	21G3	38A0	21G3	38A0
22	21C8	38A5	21D8	38B5
21	21G8	39A0	21G8	39B0
20	22F2	39A5	22F2	39A5
19	23A6	38H3	23B6	38H3
18	23B6	38H8	23C6	38G8
17	23D5	32B0	23D5	32B0
16	22D6	40E4	22F6	40H4
15	16B6	16B6	16E6	16E6
14	32F1	32F1	32F1	32F1
13	22D7	40D6	22E7	40E6
12	20B7	38F6	21E2	39G6
11	20G2	38D6	21B3	39D6
10	20D2	38G1	20G7	39E1
9	20B2	38D1	20D7	39D1
8	9B6	9B6	9D6	9D6
7	24B1	24B1	24C1	24C1
6	24H1	24H1	24H1	24H1
5	16B3	16B3	16E3	16E3
4	23D4	40G1	23D4	40G1
3	23B3	38H5	23C3	38H5
2	23A3	38H1	23B3	38H1
1	15C1	15C1	15D1	15D1
COIL	16B4	16B4	16E4	16E4

DRAWING ISSUE		
1	BHG M.R	W.S.
2B	MCF FGS	ALF
3B	XO PD	JFD
4A	DGT CHO	PDC
6A	RJS RAT	TEP
12B	PTK WM	P.O.B.
16B	JOS MF PDB	HW
22AC	JJG P.G. PD	HW
23D	ZEN DHC AHM	HW
25D	GAP SAK KFJ	BHW
26AC	GAP SAK KFJ	
28D	PJS SAK GFH	PMTE
29B	WPA GFH	
30D	PJS GFH	CHW
31D	FMC PJS RHP	
33D	ROZ PJS RHP	
34D	ROZ PJS RHP	
35D	ROZ PJS RHP	HW
36B	ROZ PJS LDJ	
38D	ROZ PJS LDJ	

LINE, LINK, AND MARKER CIRCUIT (2)	SD-65741-01-C7
BELL TELEPHONE LABORATORIES, INC	Dwg Size 6S

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APP FIG. 9 (MFR DISC)

RELAY

DESIG	ALBA		ALBB		COSA		COSB		LBA		LBB		LCK1		LCK2		LEA		LEAA		LEB		LEBA		DESIG
CODE	AJ54		AJ54		AG10		AG10		AJ27		AJ27		AK4				AF55		AJ12		AF55		AJ12		CODE
OPTION																									OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	EM	22F5	EM	22F5	M	19F6	M	19F6	EM	22C3	EM	a	M	32B3			M	23F5	EBM		M	23G5	EBM		12
11	M	16C4	M	16F4	M	19G6	M	19G6					EBM				M	23H5	EBM		M	23H5	EBM		11
10	EBM	15C3	EBM	15D3	M	22D5	M	22F5	M	e	M	e	EBM				BM	26A4	EBM	22A7	BM	26C4	EBM	22A4	10
9	B	30C3	B	30C3	B		B		B	23A3	B	23B3	EMB	24G3			M	22D5	EBM	32D5	M	22F5	EBM	32D5	9
8	EBM	32C6	EBM	32C7	M		M		EBM	b	EBM	b	EMB	24G4			BM	24F4	EBM	16E4	BM	24F3	EBM	16E5	8
7	B		B		B	32H6	B	32G5	B	22D7	B	22D7					B		EBM	16B4	B		EBM	16B5	7
6	EMB	8A6	EMB	8C6	M	32G5	M	32H5	EMB	c	EMB	c					BM	32E5	EBM	32E5	BM	32F5	EBM	32F5	6
5	B	9E7	B	9E7	B	19E6	B	19E5	B	22C7	B	22C7			EMB	24H4	M	24G5	EBM	24E6	M	24G5	EBM	24E5	5
4	EBM	34C1	EBM	34C1	M	19F5	M	19F5	EBM	d	EBM	d			EMB		BM		EBM	22A4	BM		EBM	22A7	4
3	B	9E7	B	9E7	B	19E5	B	19E6							EBM		M	24H5	EBM	24D6	M	24H5	EBM	24D5	3
2	M	16C4	M	16F4	M		M		M	22A1	M	22D1			EBM		M		EBM	24C6	M		EBM	24C5	2
1	M	15C1	M	15D1	M	19E5	M	19F5							M	32B3	M	21G1	EBM	24B6	M	21G1	EBM	24B5	1
COIL		22B2		22D2		22D4		22E4		22B2		22E2		24F3		24H3		23A4		23B4		23B4		23C4	COIL

a (ZO) 22E3

b (ZO) 23C2 (ZN) 32B6 — b (ZO) 23B2 (ZN) 32B7

c (ZO) 22G6 (ZN) 32F2 — c (ZO) 22G6 (ZN) 32F3

d (ZO) 22H2 (ZN) 26A2 — d (ZO) 22H2 (ZN) 26C2

e (ZO) 32F2 (ZN) 22B3 — e (ZO) 32F3 (ZN) 22D3

RELAY

DESIG	LSHA		LSHB		LTA		LTAA		LTB		LTBA		LTS2		LTS3		LTS4		LTS5		LTS6		LTS7		DESIG
CODE	AF113		AF113		AF132		AJ12		AF132		AJ12		AF94		AF94		AF94		AF94		AF94		AF94		CODE
OPTION	Z0		Z0																						OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12					M	22H3	EBM	21G3	M	22G7	EBM	21G3	EM	21G1	EM	21B6	EM	21C6	EM	21E6	EM	22G0	EM	22G0	12
11					M	21D1	EBM	23B6	M	21D1	EBM	23C6	M	21G1	M	21B6	M	21D6	M	21E6	M	22G0	M	22G0	11
10	EBM	22H2	EBM	22H6	M	21A1	EBM	32E1	M	21B1	EBM	32E1	M	23A2	M	23A2	M	23A2	M	23A2	M	23A2	M	23A2	10
9	B	26A2	B	26D2	M	20F6	EBM	21D8	M	20G6	EBM	21D8													9
8	EBM	23B2	EBM	23C2	BM	22A0	EBM	21G8	BM	22C0	EBM	21H8	EBM	22C3	EBM	22C4	EBM	22C4	EBM	22C4	EBM	22C5	EBM	22C5	8
7	B		B		M	20D6	EBM	32B5	M	20D6	EBM	32B5	B	22A3	B	22A4	B	22A4	B	22A4	B	22A5	B	22A5	7
6	EBM	32B4	EBM	32B5	BM	30G6	EBM	22F3	BM	30G5	EBM	22F3	EMB	20B2	EMB	20D2	EMB	20G2	EMB	20B7	EMB	20D7	EMB	20G7	6
5	B		B		M	20A6	EBM	23F5	M	20B6	EBM	23G5													5
4	EBM	22B3	EBM	22D3	M	20F1	EBM	24A9	M	20G1	EBM	24B9	EBM	24A4	EBM	24B4	EBM	24B4	EBM	24C4	EBM	24D4	EBM	24D4	4
3	B	32F2	B	32F3	M	20B1	EBM	32C2	M	20D1	EBM	32C3													3
2					M	20A1	EBM	22C7	M	20B1	EBM	22D7	M	23B2	M	23B2	M	23B2	M	23B2	M	23B2	M	23B2	2
1					M	22H1	EBM	23B3	M	22G5	EBM	23C3	M	24G4	M	24G4	M	24G4	M	24G4	M	24G4	M	24G4	1
COIL		22A2		22C2		22A7		22A7		22A4		22B4		21F2		21A7		21C7		21E7		21F7		22F1	COIL

RELAY

DESIG	LTS8		LTS9		NT		SMTA		SMTB		TRLA		TRLB		WIL		WILA		WLGA		WL				DESIG
CODE	AF94		AF94		AF88		AJ53		AJ53		AJ12		AJ12		AJ3		AK7				AJ3				CODE
OPTION																									OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	EM	22F0	EM	22F0	M	19G7	M	14D3	M	14H3	EBM	20A3	EMB	32F6	EBM	32G4					EMB	32E6			12
11	M	22F0	M	22F0	B	9B3	M	15C3	M	15D3	EBM	20D3	EBM	20F8	BM	32F7	EBM				BM	32D7			11
10	M	23A2	M	23A2	M	19H7	EBM	14E1	EBM	14A2	EBM	20F3	EBM	21A3	EBM	32G3	EBM				EBM	32D3			10
9					B	9C3	M	a	M	a	EBM	20A8	EBM	21D3	M		EM				M				9
8	EBM	22C5	EBM	22C6	BM		EBM	32C6	EBM	32C7	EBM		EBM		EBM	32E4	EM	32F7			EBM	32H3			8
7	B	22A5	B	22A6	B	9C0	M	9F6	M	9F6	EBM	21D3	EBM	20A7											7
6	EMB	21B3	EMB	21E1	BM	18H5	EBM	14A1	EBM	14E2	EBM	21A3	EBM	20G2	EMB	24C7					EMB	24A7			6
5					B	9B0	M	17B1	M	17C1	EBM	32D5	EBM	32D5	M				EM	22E8	M				5
4	EBM	24E4	EBM	24F4	M	12F2	EBM	9B5	EBM	9D5	EBM	20F7	EBM	20D2	EBM	32D3			EM		EBM	32D4			4
3					B	19F6	M	15E0	M	15F0	EBM	20D7	EBM	20A2	BM				EBM		BM				3
2	M	23B2	M	23B2	M	12D2	M	15C1	M	15D1	EBM	24G5	EBM	24G4	EBM	24D5			EBM	22D8	EBM	32C3			2
1	M	24G4	M	24G4	B	19F6	M	14D0	M	14H0	EBM	24H4	EBM	24H5	BM	24A5			EBM	32G4	BM	24C8			1
COIL		22E1		22E1		18G5		23F2		23G2		22B7		22C7		24C7		32F7		22C8		24A7			COIL

WW 15E3 a — WX 9D4

WW 15F3 a — WX 9B4

RELAY

DESIG	WLA		WUA		WLG		WU		ZIL		ZL		ZLG		ZU		ZU				DESIG
CODE	AK7				AF98		AF98		AF110		AF98		AF98		AJ5		AJ39				CODE
OPTION															B		A				OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12			EBM	29H6					B	24E5					EBM	11D9	EBM	11D9			12
11			EBM												EBM	18A1	EBM	18A1			11
10			EBM		EBM	32E3	EBM	29F3	EBM	32D4	EBM	32C4	EBM		EBM	10D9	EBM	10D9			10
9			EM	29H3	B		B				B		B		EBM	18A2	EBM	18A2			9
8			EM	29H3	EBM	32G4	EBM	29E3	EBM	32F6	EBM	32D6	EBM	22C8	EBM	9B9	EBM	9B9			8
7					B		B				B	24E6	B		EBM		EBM				7
6					EMB		EMB	12B6	EBM	24B5	EMB	24D6	EMB	22C8	EBM	11E9	EBM	11E9			6
5	EM	32E7			B		B	29H2			B	24B6	B		EBM	29F4	EBM	29F4			5
4	EM				EBM	32F4	EBM	29H7	EBM	24D8	EBM	24B8	EBM	32E4	EBM	10E9	EBM	10E9			4
3	EBM				B		B				B		B		EBM	29G2	EBM	29G2			3
2	EBM				M	22E8	M	29G2			M	24A6	M	22B8	EBM	9D9	EBM	9D9			2
1	EBM	32H4													EBM	12C7	EBM	12C7			1
COIL		32D7		29G3		22D8		12B6		24E7		24B7		22E7		12C6		12C8			COIL

RELAY

DESIG	LTCA	LTCB
CODE	AJ202	AJ202
OPTION		
26	21E3	21E4
23	21C3	21C4
22	20H2	20H3
21	20E8	20E8
20	20C8	20C8
19	20H3	20H3
18	20E3	20E3
17	20C3	20C3
16	21D3	21D4
15	21B3	21B4
14	20F8	20F8
13	20D8	20D8
12	20A8	20A8
11	20F3	20F3
10	20D3	20D3
9	20A3	20A3
8	21C1	21D1
7	21A1	21A1
6	20F6	20F6
5	20C6	20D6
4	20A6	20A6
3	20F1	20F1
2	20C1	20D1
1	20A1	20A1
COIL	22G1	22G5

RELAY

COS

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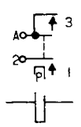

22F5

22E5

23D4

RELAY

280EE

LT2	LT3	LT4	LT5	LT6	LT7	LT8	LT9
21F2	21A7	21C7	21E7	21G7	22F2	22E2	22E2
20A2	20D2	20F2	20A7	20D7	20F7	21A2	21D2

NETWORK

DESIG	LOC	CODE
LEA	23B4	186A
LEB	23C4	186A
LTS2	21G2	185A
LTS3	21B7	185A
LTS4	21C7	185A
LTS5	21E7	185A
LTS6	21G7	185A
LTS7	22G1	185A
LTS8	22F1	185A
LTS9	22F1	185A
WG SMO-9	24A4-F4 24H5,G5	186A

RESISTOR

DESIG	LOC	CODE
COSA	23D5	18BW
COSB	23D5	18KE
[1] L02 L12	20B3	19BM
[1] L03 L13	20D3	19BM
[1] L04 L14	20G3	19BM
[1] L05 L15	20B8	19BM
[1] L06 L16	20D8	19BM

RESISTOR

DESIG	LOC	CODE
[1] L07 L17	20G8	19BM
[1] L08 L18	21B4	19BM
[1] L09 L19	21E4	19BM
LTA2	20A0	18KY
LTA3	20C0	18KY
LTA4	20F0	18KY
LTA5	20A5	18KY
LTA6	20C5	18KY
LTA7	20F5	18KY

RESISTOR

DESIG	LOC	CODE
LTA8	21A0	18KY
LTA9	21C0	18KY
[1] LTB2 LTB3	20B0	19AAH
[1] LTB4 LTB5	20G0	19AAH
[1] LTB6 LTB7	20C5	19AAH
[1] LTB8 LTB9	21B1	19AAH
WL SMO-9	24A4-F4 24H5,G5	KS13490,L1, 33,000Ω
WIL	24C7	19RL
WILA	32F8	18AE

RESISTOR

DESIG	LOC	CODE
WL	24A7	19RL
WLA	32D8	18AE
WLGA	22E8	18AE
WU	12B7	18DH
WUA	29G4	18AE
ZU	12C7	18AC

DIODE

	DESIG	LOC	CODE
XH	SMTA	9C4	446F
	SMTB	9D4	446F

DRAWING ISSUE

12B	PTK WM	P.O.B. NY HO HW9
24D	WPA RT SAM KFJ PJS	HW A PMTL
29B	WPA GFH	
30D	RT PJS GFH	HW
33D	FED PJS RHP	PJS
36B	ROZ RJS LDJ	B
37B	ROZ PJS LDJ	

LINE, LINK, AND MARKER CIRCUIT (2)

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APP FIG. 10

RELAY

DESIG	MTA		MTB		NAA		NAB		NCA		NCB		RLSA		RLSA		RLSAA		RLSB		RLSB		RLSBA		DESIG
CODE	AF132		AF132		AJ12		AJ12		AJ3		AJ3		AJ12 ZH		AJ39 ZI		AJ12		AJ12 ZH		AJ39 ZI		AJ12		CODE
OPTION																									OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	M	25G4	M	25H4	EBM	25C2	EBM	25C7	EMB	25C2	EMB	25C7	EBM	26G5	EBM	26G5	EBM	2B6	EBM	25F2	EBM	25F2	EBM	2B6	12
11	M	25F2	M	25F7	EBM	16C5	EBM	14A2	BM	14A7	BM	14B7	EBM	23A5	EBM	b	EBM	4C8	EBM	25F7	EBM	25F7	EBM	4A8	11
10	M	25A2	M	25A7	EBM	25C3	EBM	25C8	EBM	14E1	EBM	14B2	EBM	23B4	EBM	a	EBM	12E6	EBM	26F5	EBM	26F5	EBM	12D6	10
9	M	25C2	M	25C7	EBM	16C3	EBM	14E2	M	25C3	M	25C7	EBM	23G2	EBM	23G2	EBM	15E6	EBM	23F2	EBM	23F2	EBM	15E6	9
8	BM	33B1	BM	33B1	EBM	33B1	EBM	33B1	EBM		EBM		EBM	2E1	EBM	2E1	EBM	15C6	EBM	2G1	EBM	2G1	EBM	15C6	8
7	M	25D2	M	25D7	EBM	14C7	EBM	14D5					EBM	30D4	EBM	30D4	EBM	30B6	EBM	30D3	EBM	30D3	EBM	30B6	7
6	BM	33D5	BM	33D5	EBM	34E4	EBM	34F4	EMB	25C1	EMB	25C6	EBM	30A6	EBM	30A6	EBM	17F4	EBM	30A6	EBM	30A6	EBM	17G4	6
5	M	25D1	M	25D6	EBM	14C7	EBM	14C5	M	25B1	M	25C6	EBM	2G2	EBM	2G2	EBM	12D5	EBM	2E2	EBM	2E2	EBM	12E5	5
4	M	25C1	M	25C6	EBM	25C0	EBM	25C5	EBM	14B1	EBM	14E2	EBM	23F1	EBM	23F1	EBM	4A7	EBM	23G1	EBM	23G1	EBM	4C7	4
3	M	25A1	M	25A6	EBM	14A1	EBM	16C5	BM	16G4	BM	16G5	EBM	26F1	EBM	26F1	EBM	2B3	EBM	23B5	EBM	b	EBM	2B3	3
2	M	25F1	M	25F6	EBM	25C1	EBM	25C6	EBM	16D4	EBM	16D5	EBM	25F6	EBM	25F6	EBM	30G4	EBM	23A4	EBM	a	EBM	30G4	2
1	M	25G3	M	25H3	EBM	14E1	EBM	16G3	BM	14B5	BM	14A5	EBM	25F1	EBM	25F1	E3M	34G4	EBM	26G1	EBM	26G1	EBM	34G4	1
COIL		25F2		25F7		25B2		25B7		25C2		25C7		25E2		25E2		25D2		25E7		25E7		25D7	COIL

															a	(9) 23B4					a	(9) 23A4			
																(22) 38H6						(22) 38H2			
															b	(9) 23A5					b	(9) 23B5			
																(22) 38H3						(22) 38H7			

NETWORK

DESIG	LOC	CODE
RLSA	25E2	186A
RLS3	25E7	186A

DIODE

DESIG	LOC	CODE
(WF) RLSA	37D2	446F
(WF) RLSB	37D3	446F

RELAY

DESIG	SAA		SA3		STA		STAR		STBR		ST3				TAA		TAB				TMA		TMB		DESIG
CODE	AF64		AF64		AJ15		AK4				AJ15				AJ54		AJ54				AG8		AG8		CODE
OPTION																									OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	EMB	2532	EM3	2537	E3M	17D7	1'	34B4			E3M	17D8			EM	25G8	EM	25H8							12
11	M	25C2	M	25C8	E3M	25B3	EBM	b			EBM	25B5			M	2533	M	25B8							11
10	M	1385	M	1385	E3M	1385	E3M	a			E3M	1385			EBM	15C6	EBM	15E6							10
9	BM	25A2	BM	25A7	EBM	13E5	EMB	23F3			E3M	13E5			3	25F6	3	25F2							9
8	M	13F5	M	13F5	EM3	25A2	EM3	23G3			EMB	25A7			E3M	25H3	E3M	25G5			M	25E4	M	25F4	8
7	BM	25A1	BM	25A6	EBM	33C1					E3M	33C1			3	25C3	3	25C8			3		3		7
6	EM3	25B1	EMB	25B6	EMB	25A1					EMB	25A6			EMB		EMB				BM	25C1	BM	25C6	6
5	3M	12C5	3M	12C5	EMB	12C5			EMB	23G4	EM3	12C5			B	25F1	B	25F7							5
4	M	24A8	M	24B8	EBM	32C2			EMB	23F4	E3M	29E2			EBM	25G3	EBM	25G5			M	25E4	M	25F4	4
3	BM	32C1	BM	29F2	EBM	24A8			E3M	b	E3M	24A8			B	25C0	B	25C5							3
2	M	12C5	M	12C6	EBM	12B5			EBM	a	EBM	12B5			M	25G7	M	25H7							2
1	M	25C1	M	25C6	EBM	25B1			M	34C4	EBM	25B6			M	25B1	M	25B6							1
COIL		25B2		25B7		25A2		25A2		25A7		25A7				25G7		25H7				25G4		25H4	COIL

							a	(A) 5H5 (B) 16E2	a	(A) 5H6 (B) 16B7															
							b	(A) 5H5 (B) 16B2	b	(A) 5H6 (B) 16E7															

RELAY

DESIG	TCA		TCB		TQKA		TQK3		TQLA		TQL3				TRA		TR3								DESIG
CODE	AG2		AG2		AF64		AF64		AF9		AF9				AG21		AG21								CODE
OPTION																									OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12					EMB	25E8	EM3	25F8	EM		EM														12
11					M	26F3	M	26G3																	11
10	M	25G8	M	25G8	M	26F9	M	26G9	M	26F8	M	26G8			M	26G5	M	26F5							10
9	B	25B3	B	2598	BM	c	BM	c	B		B	26G3													9
8	M	25H8	M	25G8	M	25E3	M	25F3	E3M		EBM				EMB	b	EMB	b							8
7	B		B		BM	31A0	BM	31A0	B	26G2	B	26F3													7
6	M		M		EMB	2E0	EMB	2G0	EMB	34A4	EMB	34B4			EMB	a	EMB	a							6
5	B	2580	B	2535	BM	b	BM	b	B	26F2	B														5
4	M	25H6	M	25H7	M	25E5	M	25F5	E3M	33D1	E3M	33D1			M	26F1	M	26G1							4
3					BM	a	3M	a																	3
2	M	25G7	M	25G6	M	26G6	M	26F6	M	26F7	M	26G7			M	30G3	M	30G3							2
1					M	26F2	M	26G2																	1
COIL		25E4		25E4		26F3		26G3		26F7		26G7				25D2		25D7							COIL

					a	3H0 26F6	a	3F0 26G6							a	25D1 26A7	a	25D6 26B7							
					b	2G2 25E0	b	2E2 25F0								25D2		25D7							
															b	26A8	b	26B8							
					c	3G0 26G9	c	3F0 26F9																	

DESIG																									DESIG
CODE																									CODE
OPTION																									OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	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

DRAWING ISSUE

1	BHG M.R.	W.S.
2B	RLL FGD	WS
3B	W.D. PD	JFD
5D	FTP CWD	RAC
8B	M.G. FGS	A
11B	G.L. WEC	P.O.B
WORN DRAWING RECORD-DUCED WITHOUT CHANGE 12-27-63		PD
30D	RCZ PJS GFH	HW
33D	FED PJS RHP	B

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LINE, LINK AND MARKER CIRCUIT (2)

SD-65741-01-C9

BELL TELEPHONE LABORATORIES, INC

DWG SIZE 6S

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APP FIG.11

RELAY

DESIG	JRAL			LALI		LAL2		LAL2A		MAL				RLAL				TAAL		TAL		TOAL		DESIG
CODE	AF115			AF85		AF85		AF85		AF118				AF85				AF9		AF85		AF85		CODE
OPTION																								OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12																	EM	30F3						12
11																								11
10	M	33D7			EBM		EBM		EBM		EBM				EBM				M	33D4	EBM	31B0	EBM		10
9					PM	33F4	PM		PM	33F4	PM				PM	33D4			B	26F5	PM	31B0	PM		9
8	EBM																		EBM						8
7																			B	26G5					7
6	B				EBM		EBM		EBM		EBM	30E4			EBM				EMB	30G2	EBM	33E5	EBM		6
5																			B	26G0					5
4	M	29B8			PM	33F7	PM		PM	33F7	PM	33H8			PM	33D7			EBM	26F0	PM	33E7	PM		4
3					M	32B3	M	32A7	M	32A7	M	33G5			M	30D3					M	31A0	M	33B2	3
2	EBM	33D4																	M	33G7					2
1																									1
COIL		29A9				32B4		32B7		32A7		30D5				30C2				30G2		31A0		33B2	COIL

RELAY

DESIG	TOALA		TRAL				UAL		UALI		UALIA		UAL2						XCAL		COAL			DESIG
CODE	AF85		AF28				AF85		AF85		AF85		AF85						AK24					CODE
OPTION																			WT		WT			OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12																	BM		BM	32D1					12
11																			BM						11
10	EBM		M	33E4			EBM		EBM		EBM		EBM												10
9	PM	33B4					PM	33C4	PM		PM	33F4	PM	33C4					M	33B4					9
8			EMB																M	33B9					8
7			B	8C6																					7
6	EBM		EBM	33C7			EBM		EBM		EBM		EBM												6
5			B	8A6																	M	33B9			5
4	PM	33E7	PM	31E4			PM	33B7	PM		PM	33B7	PM	33C7							M	33B4			4
3	M	33C2					M	29B4	M	29C4	M	29C4	M	29B2											3
2																					BM				2
1																					BM	32D1			1
COIL		33B2		31E4				29B3		29D3		29C3		29A2						32D1		32D1			COIL

LAMPS

DESIG	LOC	CODE
(WT) COAL	33B9	MI
JRAL	33D8	
LALI	33F8	
LAL2	33F8	
MAL	33H8	
RLAL	33D8	
TAAL	33G8	(WS) 2Y
TAL	33E8	(WT) MI
TOAL	33E8	
TRAL	33C8	
TS	33G8	
UAL	33B8	
UALI	33B8	
UAL2	33C8	
(WT) XCAL	33B9	MI

APP FIG.12, 13, 14

DESIG	TRUNK SWITCH 0								TRUNK SWITCH 1								LINE SWITCHES		2	3	4	5	LINE SWITCHES 6, 7		TRUNK SWITCH 8					
APP FIG. NO.	12								13										14	14	13	13	12		12					
CODE	324AJ				324AL				324AJ				324AL				324AJ	324AK					324AJ	324AK	324AJ				324AL	
OPTION	ZZ				YA				ZZ				YA				ZV	ZX					ZW	ZY	ZZ				YA	
HORIZONTAL LEVEL	WIRE								WIRE								WIRE						WIRE		WIRE					
	0-2				3-5				0-2				3-5				0-2	3-5					0-2	3-5	0-2				3-5	
0 VERT					0-4	5-7	8	9					0,2,4,6	1,3,5,7	8	9		0-9										1,3	2,4	5-9
0 LOC					27G2	27G3	27G7	28G3					27G5	27G7	27G8	28G6		27G1						27G1				27G5	27G7	27G2
1 VERT	0-4	5-7	8	9					0,2,4,6	1,3,5,7	8	9					0-9						0-9		1,3	2,4	5-9			
1 LOC	27E2	27E3	27E8	28E3					27E5	27E6	27E8	28E6					27E0						27E0		27E5	27E6	27E2			
2-9 VERT	0-4	5-7	8	9	0-4	5-7	8	9	0,2,4,6	1,3,5,7	8	9	0,2,4,6	1,3,5,7	8	9	0-9	0-9					0-9	0-9	1,3	2,4	5-9	1,3	2,4	5-9
2-9 LOC	27B2-27D2	27B3-27D3	27B8-27D8	28B3-28D3	27B2-27D2	27B3-27D3	27B8-27D8	28B3-28D3	27B5-27D5	27B7-27D7	27B8-27D8	28B6-28D6	27B5-27D5	27B7-27D7	27B8-27D8	28B6-28D6	27B0-27D0	27B0-27D0					27B0-27D0	27B0-27D0	27B5-27D5	27B7-27D7	27B2-27D2	27B5-27D5	27B7-27D7	27B2-27D2

	DESIG	LOC
MAGNETS	THM00-04	34D6
	THM05,06	34F9
	THM07	34G6
	THM08	17B3
	THM09	17A3
	SM00	24H6
	SM01	24G6
	SM02-09	24A3-24F3

DESIG	LOC
THM10,12,14,16	9E3
THM11,13,15,17	9F3
THM18,19	17C3
SM10	24H6
SM11	24G6
SM12-19	24A3-24F3

DESIG	LOC
LHM20-29	35H5
LHM30-59	1E6
SM20,30,40,50	24H6
SM21,31,41,51	24G6
SM22-29, 32-39, 42-49, 52-59	24A3-24F3

DESIG	LOC
LHM60-79	1E6
SM60,61,70,71	24G6,24H6
SM62-69, 72-79	24A3-24F3

DESIG	LOC
THM80	34F9
THM81,83	9E3
THM82,84	9F3
THM85-89	34D6
SM80	24H6
SM81	24G6
SM82-89	24A3-24F3

	DESIG			LOC
HOLD O.N. CONTACTS	THM00-04	(ZZ) 1T,2T	(YA) 1,2,3	
		(ZZ) 1B,2B	(YA) 4,5	
	THM05	(ZZ) 1T,2T	(YA) 1,2,3	2B0
		(ZZ) 1B,2B	(YA) 4,5	7E3
	THM06	(ZZ) 1T,2T	(YA) 1,2,3	2B0
		(ZZ) 1B,2B	(YA) 4,5	7A8
	THM07-09	(ZZ) 1T,2T	(YA) 1,2,3	
		(ZZ) 1B,2B	(YA) 4,5	

DESIG			LOC
THM10-19	(ZZ) 1T,2T	(YA) 1,2,3	
	(ZZ) 1B,2B	(YA) 4,5	

DESIG			LOC
LHM20-29	(ZV) 1T,2T	(ZX) 3,4,5	2
	(ZV) 1B,2B	(ZX) 1,2	35B5
LHM30-59	(ZV) 1T,2T	(ZX) 3,4,5	1A7
	(ZV) 1B,2B	(ZX) 1,2	1D6
		2	(ZV) 35B5
			(ZX) 35B7

DESIG			LOC
LHM60-79	(ZW) 1T,2T	(ZY) 3,4,5	1A7
	(ZW) 1B,2B	(ZY) 1,2	1D6

DESIG			LOC
THM80	(ZZ) 1T,2T	(YA) 1,2,3	2D0
	(ZZ) 1B,2B	(YA) 4,5	6A3
THM81-89	(ZZ) 1T,2T	(YA) 1,2,3	
	(ZZ) 1B,2B	(YA) 4,5	

NETWORK

DESIG	LOC	CODE
THM08	17B4	186A
THM18	17D4	186A

DRAWING ISSUE

1	2-66 M.R.
2B	11-66 M.S.
3B	4-67 R.P.
12B	8-67 W.H.
16B	10-67 R.P.
18A	4-68 A.S.
21B	8-68 W.H.
33D	2-69 F.D.
37B	8-69 R.O.Z.

LINE, LINK, AND MARKER CIRCUIT (2)

BELL TELEPHONE LABORATORIES, INC

DWG SIZE 6S

SD-65741-01-C10

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APP FIG. 15

RELAY

DESIG	SMC1		SMC4		SMC5																		DESIG
CODE	AF24		AF24		AF24																		CODE
OPTION																							OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	M	23F7	M	23F7	M	23F7																	12
11	M	23G7	M	23G7	M	23G7																	11
10	M	24H6	M	24H6	M	24H6																	10
9	M	24F4	M	24F4	M	24F4																	9
8	M	24E4	M	24E4	M	24E4																	8
7	M	24D4	M	24D4	M	24D4																	7
6	M	24D4	M	24D4	M	24D4																	6
5	M	24C4	M	24C4	M	24C4																	5
4	M	24B4	M	24B4	M	24B4																	4
3	M	24B4	M	24B4	M	24B4																	3
2	M	24A4	M	24A4	M	24A4																	2
1	M	24G6	M	24G6	M	24G6																	1
COIL		24C0		24E0		24F0																	COIL

APP FIG. 16

RELAY

DESIG	SMC0		SMC6		SMC7		SMC8																DESIG
CODE	AF24		AF24		AF24		AF24																CODE
OPTION			V		V																		OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	M	23F7	M	23F7	M	23F7	M	23F7															12
11	M	23G7	M	23G7	M	23G7	M	23G7															11
10	M	24H6	M	24H6	M	24H6	M	24H6															10
9	M	24F4	M	24F4	M	24F4	M	24F4															9
8	M	24E4	M	24E4	M	24E4	M	24F4															8
7	M	24D4	M	24D4	M	24D4	M	24D4															7
6	M	24D4	M	24D4	M	24D4	M	24D4															6
5	M	24C4	M	24C4	M	24C4	M	24C4															5
4	M	24B4	M	24B4	M	24B4	M	24B4															4
3	M	24B4	M	24B4	M	24B4	M	24B4															3
2	M	24A4	M	24A4	M	24A4	M	24A4															2
1	M	24G6	M	24G6	M	24G6	M	24G6															1
COIL		24A0		24F0		24G0		24G0															COIL

APP FIG. 17

RELAY

DESIG	SL20-29																						DESIG
CODE	AF10																						CODE
OPTION																							OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	EM	35F7																					12
11																							11
10	M																						10
9																							9
8	EBM	a																					8
7	B																						7
6	EMB																						6
5																							5
4	M	35B5																					4
3																							3
2	M	35A6																					2
1																							1
COIL		35F8																					COIL

a (ZE) 35B2
(ZF) 35D4

THERMISTOR

DESIG	LOC	CODE
T20-29	35F7	8C

RELAY

DESIG																							DESIG
CODE																							CODE
OPTION																							OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	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

DRAWING ISSUE

1	FCC 68.2 MR	W.S.
2B	FCC 68.5	W.S.
11B	O.L. LWE WPA	P.O.B.
24D	SAK KFJ	A
33D	FED P/S RHP	HW
35D	FED P/S RHP	

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APP FIG.19

RELAY

DESIG	RL0		RL1																						DESIG
CODE	AK 5																								CODE
OPTION																									OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12			M	37B5																					12
11			B																						11
10			B																						10
9			B	36C3																					9
8																									8
7																									7
6																									6
5																									5
4	B	36C3																							4
3	B																								3
2	B																								2
1	M	37B6																							1
COIL		37E6		37B6																					COIL

APP FIG.20

RELAY

DESIG	A(0-9)		B(0-9)																						DESIG
CODE	AF79		AF79																						CODE
OPTION																									OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	EMB	36C4	EMB	36C4																					12
11	M	36F6	M	36G6																					11
10	EBM		EBM																						10
9																									9
8	EBM	36G4	EBM	36G4																					8
7																									7
6	EMB	36B4	EMB	36E4																					6
5																									5
4	EBM	36H4	EBM	36H4																					4
3																									3
2	EBM	36E4	EBM	36B4																					2
1	M	36B6	M	36D6																					1
COIL		36B5		36B5																					COIL

DIODES

DESIG	LOC	CODE
A	36B5	446F
B	36E5	446F

APP FIG.21

RELAY

DESIG	MS (EVEN)		MS (ODD)																						DESIG
CODE	AK 23																								CODE
OPTION																									OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12			BM																						12
11			BM	36E6																					11
10																									10
9																									9
8																									8
7																									7
6																									6
5																									5
4																									4
3																									3
2	BM	36E6																							2
1	BM																								1
COIL		36F5		36F5																					COIL

RESISTORS

DESIG	LOC	CODE
PC-	36G4	19RP

RELAY

DESIG																									DESIG
CODE																									CODE
OPTION																									OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	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

DRAWING ISSUE

300 MAB HW
PJS
GFH

SD-65741-01-C12

LINE, LINK, AND MARKER CIRCUIT (2) | SD-65741-01-C12

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APP FIG. 22

RELAY

DESIG	ALBA		ALBB				COSA		COSB				LBA		LBB		LCKI		LCK2		LEA		LEAA		DESIG
CODE	AJ54		AJ54				AJ68		AJ68				AJ27		AJ27		AK4				AF55		AJ12		CODE
OPTION																									OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	EM	40E3	EM	40H3			EM	19F6	EM	19F6			EM	40AI	EM	40CI	M	32B3			M	23F5	EBM		12
11	M	16C4	M	16F4			B		B								EBM				M	23H5	EBM		11
10	EBM		EBM				M	40E4	M	40H4			M	32F2	M	32F3	EBM				BM	32BI	EBM	40B7	10
9	B	30C3	B	30C3			B		B				B	38G0	B	38G5	EMB	24G3			M	40E3	EBM	32D5	9
8	EBM	32C6	EBM	32C7			EBM	19E6	EBM	19E5			EBM	38G5	EBM	38G0	EMB	24G4			BM	24F4	EBM	16E3	8
7	B		B				B		B				B	40E7	B	40D7					B	26A4	EBM	16B3	7
6	EMB	8A6	EMB	8C6			EMB	19G6	EMB	19G6			EMB	40DI	EMB	40DI					BM	32E5	EBM	32E5	6
5	B	9E7	B	9E7			B		B				B	40D7	B	40D7			EMB	24H4	M	24G5	EBM	24E6	5
4	EBM	34CI	EBM	34CI			M	19F5	M	19F5			EBM	40CI	EBM	40CI			EMB		BM	38HI	EBM	40B6	4
3	B	9E7	B	9E7			B	19E5	B	19E6									EBM		M	24H5	EBM	24D6	3
2	M	16C4	M	16F4			M	19E5	M	19F5			M	40B3	M	40C3			EBM		M	39B2	EBM	24C6	2
1	M	38HO	M	38H5			BM	32H6	BM	32H6									M	32B3	M	38A2	EBM	24B6	1
COIL		40AI		40BI				40F3		40H3				40AI		40CI		24F3		24H3		38G2		38H2	COIL

RELAY

DESIG	LEB		LEBA		LSHA		LSHB		LTA		LTAA		LTB		LTBA		LTCA		LTCB		LT2		LT3		DESIG
CODE	AF55		AJI2		AFII3		AFII3		AJI5		AJI2		AJI5		AJI2		AF24		AF24		AJ68		AJ68		CODE
OPTION																									OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	M	23G5	EBM						EBM	39F5	EBM	38AO	EBM	39F5	EBM	38AO	M		M		EM	38AI	EM	38D2	12
11	M	23H5	EBM						EBM	39D5	EBM	38H3	EBM	39D5	EBM	38G8	M		M		B		B		11
10	BM	32BI	EBM	40A7	EBM	40DI	EBM	40EI	EBM	39FI	EBM	32EI	EBM	39FI	EBM	32EI	M		M		M	38GO	M	38GO	10
9	M	40H3	EBM	32D5	B	26A2	B	26D2	EBM	39DI	EBM	38A5	EBM	39DI	EBM	38A5	M		M		B	40C2	B	40C2	9
8	BM	24F3	EBM	16E5	EBM	38HO	EBM	38H5	EMB	40C2	EBM	39BO	EMB	40D2	EBM	39BO	M	39EO	M	39FO	EBM	24A5	EBM	24B5	8
7	B	26C4	EBM	16B5	B		B		EBM	30G6	EBM	32B5	EBM	30G5	EBM	32B5	M	39C5	M	39C5	B	40A2	B	40A2	7
6	BM	32F5	EBM	32F5	EBM	32B4	EBM	32B5	EMB	40AO	EBM	39B5	EMB	40BO	EBM	39B5	M	39EO	M	39FO	EMB	38CI	EMB	38EI	6
5	M	24G5	EBM	24E5	B		B		EMB	40CO	EBM	23F5	EMB	40DO	EBM	23G5	M	39BO	M	39BO	B		B		5
4	BM	38H5	EBM	40A6	EBM	40AI	EBM	40BI	EBM	38F5	EBM	24A9	EBM	38F5	EBM	24B9	M	38E5	M	38F5	M	38DI	M	38FI	4
3	M	24H5	EBM	24D5	B	32F2	B	32F3	EBM	38C5	EBM	32C2	EBM	38C5	EBM	32C3	M	38B5	M	38C5	B	32DO	B	32DO	3
2	M	39B2	EBM	24C5					EBM	38FO	EBM	40D7	EBM	38FO	EBM	40E7	M	38EO	M	38EO	M	38G4	M	38G4	2
1	M	38A2	EBM	24B5					EBM	38CO	EBM	38GI	EBM	38CO	EBM	38G5	M	38BO	M	38CO	BM	24G4	BM	24G4	1
COIL		38H7		38H7		40B3		40C3		40A7		40A7		40B7		40B7		40CI		40DI		38CI		38EI	COIL

DIODE

DESIG	LOC	CODE
COSA	40E3	446A
COSB	40H3	446A
LT2	38CI	446A
LT3	38EI	446A
LT4	38C6	446A
LT5	38F6	446A
LT6	39CI	446A
LT7	39FI	446A
LT8	39C6	446A
LT9	39F6	446A
SMTA	9C4	446F
SMTB	9D4	446F

NETWORK

DESIG	LOC	CODE
LEA	38H2	186A
LEB	38H7	186A
(WG) SM0-9	24A4-F4 24H5,G5	186A

RESISTOR

DESIG	LOC	CODE
COSA	40F3	18KD
COSB	40G3	18KD
LTA2	38BO	18KD
LTA3	38EO	18KD
LTA4	38B5	18KD
LTA5	38E4	18KD
LTA6	39CO	18KD
LTA7	39EO	18KD
LTA8	39C4	18KD
LTA9	39E4	18KD

(WG) SM0-9 — 24A4-F4, 24H5,G5 — KS-13490, L1, 33,000Ω

RESISTOR

DESIG	LOC	CODE
WIL	24C7	19RL
WILA	32F8	18AE
WL	24A7	19RL
WLA	32D8	18AE
WLGA	40F8	18AE
WU	12B7	18DH
WUA	29G4	18AE
ZU	12C7	18AC

VOLTAGE REDUCTION DETECTOR CIRCUIT

DESIG	LOC	CODE
VRDA	38C2,C7,E2, E7, 40F2	ED-5E009-( )
VRDB	39C2,C7,E2, E7,40G2	ED-5E009-( )

RELAY

DESIG	LT4		LT5		LT6		LT7		LT8		LT9		NT		SMTA		SMTB		TRLA		TRLB		WIL		DESIG
CODE	AJ68		AJ68		AJ68		AJ68		AJ68		AJ68		AF88		AJ53		AJ53		AJI2		AJI2		AJ3		CODE
OPTION																									OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	EM	38B6	EM	38D7	EM	39B2	EM	39E2	EM	39B6	EM	39D6	M	19G7	M	14D3	M	14H3	EBM	38C2	EBM	39D2	EMB	32F6	12
11	B		B		B		B		B		B		B	9B3	M	15C3	M	15D3	EBM	38F2	EBM	39F2	BM	32F7	11
10	M	38GO	M	38GO	M	38GO	M	38GO	M	38GO	M	38GO	M	19H7	EBM	14E1	EBM	14A2	EBM	38C6	EBM	39D7	EBM	32G3	10
9	B	40C2	B	40C3	B	40C3	B	40C3	B	40C4	B	40C4	B	9C3	M	a	M	a	EBM	38F7	EBM	39G7	M		9
8	EBM	24B5	EBM	24C4	EBM	24D5	EBM	24D5	EBM	24E5	EBM	24E5	BM		EBM	32C6	EBM	32C7	EBM		EBM		EBM	32E4	8
7	B	40A2	B	40A3	B	40A3	B	40A3	B	40A4	B	40A4	B	9CO	M	9F6	M	9F6	EBM	39G7	EBM	38F7			7
6	EMB	38C5	EMB	38E5	EMB	39CI	EMB	39EI	EMB	39C6	EMB	39E6	BM	18H5	EBM	14AI	EBM	14E2	EBM	39D7	EBM	38C6	EMB	24C7	6
5	B		B		B		B		B		B		B	9BO	M	17BI	M	17CI	EBM	32D5	EBM	32D5	M		5
4	M	38D5	M	38F6	M	39DI	M	39EI	M	39D5	M	39G5	M	12F2	EBM	9B5	EBM	9D5	EBM	39F2	EBM	38F2	EBM	32D3	4
3	B	32DO	B	32CO	B	32CO	B	32CO	B	32CO	B	32CO	B	19F6	M	15EO	M	15FO	EBM	39D2	EBM	38C2	BM		3
2	M	38G4	M	38G4	M	38G4	M	38G4	M	38G4	M	38G4	M	12D2	M	15CI	M	15DI	EBM	24G5	EBM	24G4	EBM	24D5	2
1	BM	24G4	BM	24G4	BM	24G4	BM	24G4	BM	24G4	BM	24G4	B	19F6	M	14DO	M	14HO	EBM	24H4	EBM	24H5	BM	24A5	1
COIL		3886		38E6		39CI		39EI		39C6		39E6		18G5		23F2		23G2		40C7		40C7		24C7	COIL
															(WW)	15E3	(WW)	15F3							
															a		a								
															(WX)	9D4	(WX)	9B4							

RELAY

DESIG	WILA		WLGA		WL		WLA		WUA		WLG		WU		XC		ZIL		ZL		ZLG		ZU		DESIG
CODE	AK7				AJ3		AK7				AF98		AF98		AF96		AFIIO		AF98		AF98		AJ39		CODE
OPTION																									OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	EBM	32G4			EMB	32E6			EBM	29H6							B	24E5					EBM	11D9	12
11	EBM				BM	32D7			EBM														EBM	18AI	11
10	EBM				EBM	32D3			EBM		EBM	32E3	EBM	29F3			EBM	32D4	EBM	32C4	EBM		EBM	10D9	10
9	EM	32F7			M				EM		B		B						B		B		EBM	18A2	9
8	EM				EBM	32H3			EM	29H3	EBM	32G4	EBM	29E3	M	32AO	EBM	32F6	EBM	32D6	EBM	40D7	EBM	9B9	8
7											B		B						B	24E6	B		EBM		7
6					EMB	24A7					EMB		EMB	12B6	M	40G3	EBM	24B5	EMB	24D6	EMB	40C8	EBM	11E9	6
5			EM	40F8	M		EM	32E7			B		B	29H2					B	24B6	B		EBM	29F4	5
4			EM		EBM	32D4	EM				EBM	32F4	EBM	29H7	M	40E3	EBM	24D8	EBM	24B8	EBM	32E4	EBM	10E9	4
3			EBM		BM		EBM				B		B						B		B		EBM	29G2	3
2			EBM	40E8	EBM	32C3	EBM				M	40E7	M	29G2					M	24A6	M	40C8	EBM	9D9	2
1			EBM	32G4	BM	24C8	EBM	32H4															EBM	12C7	1
COIL		32F7		40D8		24A7		32D7		29G3		40E8		12B6		38AO		24E7		24B7		40F6		12C6	COIL

DRAWING ISSUE

33D	ROZ PJS RHP
36B	ROZ PJS LDJ
38D	ROZ PJS LDJ

38

LINE, LINK, AND MARKER CIRCUIT (2)

BELL TELEPHONE LABORATORIES INCORPORATED — DWG SIZE 6S — PRINTED IN U.S.A.

SD-65741-01-C13

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CIRCUIT NOTES:

101.

DESIG	FUSE AMP	POTENTIAL	ONE PER
A	1-1/3	48V SIG	APP FIG. 4
B	1-1/3	48V SIG	APP FIG. 4
C	1-1/3	48V SIG	APP FIG. 7
D	1-1/3	48V SIG	APP FIG. 7
E	1-1/3	48V SIG	APP FIG. 8
F	1-1/3	48V SIG	APP FIG. 8
G	1-1/3	48V SIG	APP FIG. 9 (MD), 22
H	1-1/3	48V SIG	APP FIG. 9 (MD), 22
J	1-1/3	48V SIG	APP FIG. 9 (MD), 22
K	1-1/3	48V SIG	APP FIG. 9 (MD), 22
L	1-1/3	48V SIG	APP FIG. 10
L2	1-1/3	48V TALK	APP FIG. 1, 3, 4, 17
L3	1-1/3	48V TALK	APP FIG. 1, 3, 4
L4	1-1/3	48V TALK	APP FIG. 2, 3, 4, 15
L5	1-1/3	48V TALK	APP FIG. 2, 3, 4, 15
L6	1-1/3	48V TALK	APP FIG. 2, 3, 4, 16
L7	1-1/3	48V TALK	APP FIG. 2, 3, 4, 16
M	1-1/3	48V SIG	APP FIG. 10
N	1-1/3	48V SIG	APP FIG. 5
P	1-1/3	48V SIG	APP FIG. 5
Q	1-1/3	48V SIG	APP FIG. 11
R	1-1/3	48V SIG	APP FIG. 3, 4
S	1-1/3	48V SIG	APP FIG. 9 (MD), 13, 22
SO	1-1/3	48V SIG	APP FIG. 12
SI	1-1/3	48V SIG	APP FIG. 12
S23	1-1/3	48V SIG	APP FIG. 12
S45	1-1/3	48V SIG	APP FIG. 12
S67	1-1/3	48V SIG	APP FIG. 12
S89	1-1/3	48V SIG	APP FIG. 12
T	1-1/3	48V SIG	APP FIG. 11
TO	1-1/3	48V SIG	APP FIG. 4, 6, 16
TI	1-1/3	48V SIG	APP FIG. 4, 6, 16
TR	1-1/3	48V SIG	TRAFFIC REG CKT
UA	1-1/3	48V SIG	APP FIG. 7
UB	1-1/3	48V SIG	APP FIG. 7
X	1-1/3	48V SIG	APP FIG. 7
Y	1-1/3	48V SIG	APP FIG. 7
Z	1-1/3	48V SIG	APP FIG 19, 20, 21,

BATTERY SYMBOL	VOLTAGE RANGE
-48	45-52V

102.

FEATURE OR OPTION			PROVIDE APP FIG.	PROVIDE APP OR WIRING	PROVIDE QUANTITY
INWARD RESTRICTION CIRCUIT	NOT REQUIRED			XO	
	REQD	WITH BUSY VERIF CKT		XP, XR	
		WITHOUT BUSY VERIF CKT		XP, XQ	
TO CONTROL SWITCH PAD OF DIAL REPEATING CODE & TIE TRUNKS (SEE NOTES 123 & 201)			19	SEE NOTE 123	1 PER PBX
			20		1 PER TRK
			21		1 PER 2 TRKS

102. (CONT)

FEATURE OR OPTION			PROVIDE APP FIG.	PROVIDE APP OR WIRING	PROVIDE QUANTITY
LINE AND MARKER TENS GROUP EQPT FOR LINE GROUPS	20-29 AND 30-39		1, 17		1 PER PBX
	40-49 AND 50-59		2		1 PER PBX
	WHEN ARR FOR 60 LINES	60-69 AND 70-79		V, E, VJ	
MESSAGE REGISTER PULSE CKT	REQUIRED SEE NOTE 125			WV	1 PER PBX
	NOT REQUIRED			WU	1 PER PBX
MARKER PREFERENCE AND TENS SELECTION			4		1 PER PBX
	WHEN ARR FOR 60 LINES			V	
MARKER REGISTER CONTROL			5		1 PER PBX
MARKER TRUNK CONNECTOR			6		1 PER PBX
MARKER UNITS SELECTION, LINE AND TRUNK HUNTING, JUNCTOR REGISTRATION AND, SEQUENCE CONTROL			7		1 PER PBX
MARKER ROUTE CONTROL CLASS OF SERVICE, AND DOWN CHECK			8		1 PER PBX
MARKER LINK TEST CONTROL, SELECT MAGNET CONTROL (INCL SEL MAG CONN RELS ASSOC WITH SWITCHES 2 & 3), AND MISC CONTROL			22	WT	1 PER PBX
MARKER ADVANCE, TIMEOUT, & RELEASE			10		1 PER PBX
MARKER ALARM			11		1 PER PBX
LINE AND TRUNK LINK SWITCHES	TRUNK SWITCHES 0 & 8		12		1 PER PBX
	WHEN ARR FOR 60 LINES	LINE SW 6 AND 7		ZY	
	TRUNK SWITCH 1 AND LINE SWITCHES 4 AND 5		13		1 PER PBX
	LINE SWITCHES 2 AND 3		14		1 PER PBX
MARKER SELECT MAGNET CONNECTOR RELAYS	ASSOCIATED WITH SWITCHES 1, 4 AND 5		15		1 PER PBX
	ASSOC WITH SW 0 AND 8		16		
	WHEN ARR FOR 60 LINES	ASSOC WITH SW6 & 7		V	1 PER PBX
TO ARRANGE LINES IN LINE GRP 20-29 FOR	STATION LINE			M, ZD, WP, VC, VE	
	LOUDSPEAKER PAGING TRK			ZD, ZS, WP, VC, VE	
	RECORDED TEL DICTATION TRK	WITHOUT CORD SWBD		ZD, ZF, WP, VC, VE	
		WITH CORD SWBD		ZD, ZF, WP, VC, VF	
	3A CODE CALL CKT	CALLING END		ZD, ZG, WP, VC, VE	
		ANS END		ZE, WP, VC, VE	
	INTER-FACE TRK CKT	CALLING END		ZD, ZG, WP, VC, VE	
		ANS END		ZE, WP, VC, VE	
		WITHOUT ANS END		ZD, N, WP, VC, VE	
	TWO-WAY DIAL REPEATING TIE TRK WITH DEL DIAL SIGNAL	SEE NOTE 127 & 202 REQ'D		ZD, ZF, WQ, VD, VE	
		NOT REQ'D		ZD, ZF, WQ, VC, VE	
	AUXILIARY POSITION CKT FOR REMOTE TRUNK ANS SEE NOTE 114			ZD, ZF, WP, VC, VE	
	DIAL CONFER-ENCE TRK CKT	ATND CONTROLLED SEE NOTE 116		ZD, XC, WP, VC, VE	
		STA. CONT. SEE NOTE 115 PORT 0		ZD, ZF, WP, VC, VE	
		PORT 1-4		ZD, WP, VC, VE	
		PORT 5		ZD, XD, WP, VC, VE	
		556A CORD SWBD		WN	
		608A OR 608D CORD SWBD		XY	
STATION DIAL TRANSFER TRUNK CKT. WITH ADD-ON CONF (SEE NOTE 113)				YX	
STA DL TR CONTROLLER CKT SEE NOTE 113	REQUIRED			YV	
	NOT REQUIRED			YW	
BUSY VERIFICATION AUXILIARY TRUNK CIRCUIT	REQUIRED			YT	
	NOT REQUIRED			YS	

102. (CONT)

FEATURE OR OPTION				PROVIDE APP FIG.	PROVIDE APP OR WIRING	PROVIDE QUANTITY
LINE HUNTING	TWO DIRECTIONS				X	
	ONE DIRECTION				ZR	
PBX CAPACITY	40 LINES				T	
	60 LINES				V	
STATION LINES SEE NOTE 313	30, 31 AND 32				R	
	33 - 79				S	
MESSAGE WAITING (SEE SERVICE NOTE 124)	REQUIRED				ZQ	
	NOT REQUIRED				ZP	
CORD SWITCH-BOARD	REQD	556A		3	Y, ZT	1 PER PBX
		608A OR D	40 LINES		VA	
			60 LINES		VA, VB	
	NOT REQUIRED				Z	
WHEN LONG DISTANCE SERVICE USES C.O. TRUNK CIRCUIT	NO. 9				YE	
	NO. 8				YF	
	NO. 7				YO	
	NO. 6				YP	
STATION SINGLE DIGIT DIALING - MAKE BUSY KEY AND LAMP FOR LINES 20, 30, 40, 50, 60, 70					YD	AS REQUIRED
WHEN FX OR OFF-PREMISE EXTENSION TOUCH-TONE CONVERSION USING AUXILIARY LONG LINE CIRCUIT	SEE NOTE 321	REQUIRED			WI	
		NOT REQUIRED			WH	
WHEN CAMP-ON NOT REQUIRED					WJ	

WORKING LIMITS:

MAX EXT CKT LOOP RES 1.5K OHMS

MIN INS RES 10K OHMS

103.

NETWORK VALUES		
NETWORK NO.	RESISTANCE IN OHMS	CAPACITANCE IN UF
1	120	0.35
2	470	0.13
3	150	0.3

DRAWING ISSUE		
SUPER-CEDES ISS 29B		HW
30D	RJK PJS GFH	
31D	PMC PJS RHP	
32D	EWE SAK RHP	
33D	FED PJS RHP	
35D	FED PJS RHP	
36B	ROZ PJS LDJ	
37B	ROZ PJS LDJ	
38D	ROZ PJS LDJ	
LOST DWG RE-PRODUCED WITHOUT CHANGE 5-31-68 ROZ		LDJ

LINE, LINK AND MARKER CIRCUIT

BELL TELEPHONE LABORATORIES INCORPORATED

SD-65741-01-DIA

DWG SIZE 6S

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CIRCUIT NOTES: (CONT)

104.

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	
5D	G OR K	K		G		K	
	E OR F	F AND V OR NONE	105	E		F	
8B	A OR B	B		A		B	
9B	ZA	NONE	106	ZA			
11B	ZB, ZC, ZD, ZE, ZF OR ZG	ZB, ZD, AND H, M, N, OR Q	102	ZC, ZD, ZE, ZF, ZG, H, M, N		ZB, Q	
			102	FIG. 17			
	ZH, ZI	ZH		ZI		ZH	
12B	ZJ OR ZK	ZJ		ZK		ZJ	
	ZL OR ZM	ZL		ZM		ZL	
	ZN OR ZO	ZN		ZO		ZN	
	ZR	W, X, OR NONE	102	ZR, X		W	
	ZS	ZF, ZG, H, N, OR NONE	102	ZS		H	
13D	ZP OR ZQ	ZP	102	ZP, ZQ			
	ZT	Y OR . NONE	102, 107	Y, ZT			
16B	ZV, ZW, ZX, ZY, ZZ OR YA	ZV AND ZZ OR ZV, ZW, ZZ AND V	108, 109	ZX, ZY, YA		ZV, ZW, ZZ	
	YB OR YC	YB		YC		YB	
	YD	ZE OR M	102	YD			
	YE OR YF	NONE	102	YE, YF			
	YG	NONE	102	YG			
17B	YH, YJ	YH	124	YJ		YH	
19B	YK OR YL	YK		YL		YK	
	YM	NONE		YM			
20AC	YN	NONE	110	YN			
21B			111				
22AC	YR	YQ, YN	112	YR		YQ, YN	
23D	YS OR YT	YS	102	YS, YT			
	YV, YX YW	YW	113	YV, YX YW			
	XA, XB	XB		XA		XB	
	XC	NONE	116	XC			
	XD, XE	XE	115	XD, XE			
	XF	NONE	114	XF			
	YQ, YP	NONE	102, 117	YQ, YP			
24D	XG, XH	XG		XH		XG	
	XJ, XK	XJ OR NONE	102	XJ, XK			
25D	XQ, XP XQ, XR	XQ	118	XQ, XP XQ, XR			
26AC	XU, XV	XU		XV		XU	
27D	Y, ZT XW, XX	Y, ZT	102, 119, 120	Y, ZT XW, XX			
	XY	NONE	102	XY			
29B	WA, XZ	XZ	121, 122	WA		XZ	
	WB, WC	WB		WC		WB	
	WD	NONE		WD			
30D	WE, WF	WE	123	WF		WE	
	FIG. 19, 20 & 21	NONE	102, 123	FIG. 19 20&21			
	WG	NONE		WG			
	WH, WI	WH	102, 321	WH, WI			
	WJ	NONE	102	WJ			
31B			124	YH			
	WK	WK	123	WK			
	WL, WM	WL, YR		WM		YR, WL	
32D	WN	NONE	102	WN			
	WP, WQ	WP	102	WP, WQ			
	WR	NONE		WR			

104. (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	
33D		WC, XH, ZO				WC, XH ZO	
	FIG. 22, WS, WT	FIG. 9, WS		FIG. 22, WT		FIG. 9, WS	
	WU	XJ	102	WU		XJ	
	WV	XK	102, 125	WV		XK	
36B	WW	WX		WX		WW	
	WZ	WY		WZ		WY	
	VA	XW	102	VA		XW	
	VB	XX	102	VB		XX	
	VC, VD	VC	102, 202	VC, VD			
[illegible]	VE, VF	VE	102, 203	VE, VF			
	YG	YG	126			YG	
	VG OR VH	VG		VH		VG	
	VI OR VJ	VI AND V OR NONE	102, 128	VJ		VI	
	VK	YM		VK		YM	

NOTES:

105. PRIOR TO ISSUE 5D "F" OPTION WAS PART OF "V" OPTION.
106. WHEN THE PBX IS MODIFIED FOR DC KEY PULSING "ZA" OPTION MUST BE PROVIDED.
107. PRIOR TO ISSUE 13D "ZT" OPTION WAS PART OF "Y" OPTION.
108. PRIOR TO ISSUE 16B "ZW" OPTION WAS PART OF "V" OPTION.
109. WHEN THE PBX IS MODIFIED FOR DIRECT STATION SELECTION BY ATTENDANTS, "ZA" AND "ZX" OPTIONS MUST BE PROVIDED IN A 40 LINE CAPACITY PBX AND "ZA", "ZX" & "ZY" OPTIONS IN A 60 LINE PBX.
110. PROVIDE "YN" OPTION WHEN "YC" OPTION IS PROVIDED. (MD)
111. OPTIONS "YO" AND "YP" WERE ORIGINALLY SHOWN ADDED ON ISSUE 19B & 21B, SEE NOTE 117.
112. PROVIDE "YR" OPTION WHERE "YC" OPTION IS PROVIDED AND REMOVE "YQ" AND "YN" OPTIONS.
113. WHEN THE PBX IS MODIFIED FOR THE STATION DIAL TRANSFER TRUNK CIRCUIT WITH ADD-ON CONFERENCE. OPTIONS "YV" & "YX" MUST BE PROVIDED REPLACING "YW". OPTION "XA" MUST ALSO BE PROVIDED REPLACING "XB."
114. WHEN THE PBX IS MODIFIED TO PROVIDE AN AUXILIARY POSITION CIRCUIT FOR REMOTE TRUNK ANSWERING, OPTION "XF" MUST BE PROVIDED.
115. WHEN THE PBX IS MODIFIED TO PROVIDE FOR STATION CONTROLLED DIAL CONFERENCE TRUNK CIRCUIT, OPTION "XD" MUST BE PROVIDED REPLACING "XE." OPTION "XA" MUST BE PROVIDED REPLACING "XB."
116. WHEN THE PBX IS MODIFIED TO PROVIDE FOR ATTENDANT CONTROLLED DIAL CONFERENCE TRUNK, OPTION "XC" MUST BE PROVIDED. OPTION "XA" MUST BE PROVIDED REPLACING "XB".
117. OPTIONS "YO" AND "YP" WERE ORIGINALLY SHOWN ADDED ON ISSUE 19B. THESE OPTIONS WERE RESCHEDULED FOR ISSUE 21B AND SUBSEQUENTLY FOR 23D.
118. WHEN PBX IS MODIFIED TO PROVIDE AN INWARD RESTRICTION CIRCUIT, OPTION "XP" MUST BE PROVIDED, REPLACING OPTION "XO". OPTION "XQ" ALSO MUST BE PROVIDED. IF THE BUSY VERIFICATION CIRCUIT IS ALSO PROVIDED, OPTION "XR" MUST BE PROVIDED, REPLACING OPTION "XQ".
119. ON ISSUE 27D, "ZU" OPTION BECAME PART OF 552A, 552B, 552D, 552E, 605A, 607A, 607B, OR 608A JACK CIRCUIT AND WAS REMOVED FROM THE DRAWING ON A "D" NO RECORD BASIS.
120. PRIOR TO ISSUE 27D, OPTIONS "XW" & "XX" WERE PART OF OPTION "Y."
121. PRIOR TO ISSUE 29B, OPTION "XZ" WAS A PART OF OPTION "XA".
122. PROVIDE OPTION "WA" WHEN OPTION "XA" IS PROVIDED.
123. FOR CONTROL OF SWITCH PAD IN CODE 8 TIE TRUNKS ON ALL CODE 8 TO CODE 8 CALLS AS WELL AS ALL CODE 8 TO CODE 9 CALLS AND CODE 9 TO CODE 8 CALLS, MARKER OPTIONS 19, 20, 21, WF, AND WK AND DIAL PULSE REGISTER CIRCUIT OPTIONS YQ AND XC MUST BE PROVIDED. FOR CODE 8 TRUNK PAD CONTROL ONLY ON CODE 8 TO CODE 8 CALLS, MARKER OPTIONS 19, 20, 21, AND WF, AND REGISTER OPTIONS YQ AND XD MUST BE PROVIDED.
124. WHEN A LINE IN LINE GROUP 20-29 IS USED AS A STATION LINE AND MESSAGE WAITING SERVICE IS PROVIDED ON THIS STATION LINE, THE INSTALLER SHALL REMOVE OPTION "YJ" AND ADD OPTION "YH" FOR THIS LINE. ON ISSUE 31D OPTION "YH" IS REINSTATED AS STANDARD.
125. WHEN THE MESSAGE REGISTER PULSE CIRCUIT IS TO BE ADDED TO A PBX AND THE MARKER IS EQUIPPED WITH APP FIG. 9 AND WS OPTIONS (PRIOR TO ISSUE 33) THEN OPTION XK MUST BE SPECIFIED INSTEAD OF OPTION WV, THE STATION MESSAGE REGISTER PULSE AND SURCHARGE CKT MUST HAVE OPTION T SPECIFIED INSTEAD OF OPTION S AND SD-65746-01 MUST HAVE OPTION ZF SPECIFIED INSTEAD OPTION ZG.
126. USE OF DIAL CONFERENCE CIRCUIT SD-65745-01 IS RATED (MD) AND THE CONFERENCE CIRCUIT IS RATED A & M. WHEN THIS CONFERENCE CIRCUIT IS ADDED TO AN EXISTING PBX, THE FOLLOWING OPTIONS ARE NEEDED: N, ZD, YG, WP, VC, VE. PRIOR TO ISSUE 37B, OPTION YG WAS RATED STANDARD FOR USE WHEN THIS DIAL CONFERENCE WAS PROVIDED.
127. DELAY DIAL SIGNALING MAY ONLY BE PROVIDED WITH SD-65718-02, ISSUE 5B OR LATER.
128. PRIOR TO ISS 37B, "VI" OPTION WAS PART OF "V" OPTION.

DRAWING ISSUE		
36B	ROZ PJS LDJ	HW
37B	ROZ PJS LDJ	

LINE, LINK AND MARKER CIRCUIT	(2)	SD-65741-01-DIB
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INFORMATION NOTES:

301.

	SWITCH	VERTICAL	TENS RELAY	UNITS RELAY	TRUNK GROUP RELAY	CLASS OF SERVICE	DIALED NUMBER (SEE NOTE B)	HUNTING GROUP (SEE NOTE A)	REMARKS
LINE 20	2	0	T2	U0			20		
LINE 21	2	1	T2	U1			21		
LINE 22	2	2	T2	U2			22		
LINE 23	2	3	T2	U3			23		
LINE 24	2	4	T2	U4			24		
LINE 25	2	5	T2	U5			25		
LINE 26	2	6	T2	U6			26		
LINE 27	2	7	T2	U7			27		
LINE 28	2	8	T2	U8			28		
LINE 29	2	9	T2	U9			29		
LINE 30	3	0	T3	U0			30		
LINE 31	3	1	T3	U1			31		
LINE 32	3	2	T3	U2			32		
LINE 33	3	3	T3	U3			33		
LINE 34	3	4	T3	U4			34		
LINE 35	3	5	T3	U5			35		
LINE 36	3	6	T3	U6			36		
LINE 37	3	7	T3	U7			37		
LINE 38	3	8	T3	U8			38		
LINE 39	3	9	T3	U9			39		
LINE 40	4	0	T4	U0			40		
LINE 41	4	1	T4	U1			41		
LINE 42	4	2	T4	U2			42		
LINE 43	4	3	T4	U3			43		
LINE 44	4	4	T4	U4			44		
LINE 45	4	5	T4	U5			45		
LINE 46	4	6	T4	U6			46		
LINE 47	4	7	T4	U7			47		
LINE 48	4	8	T4	U8			48		
LINE 49	4	9	T4	U9			49		
LINE 50	5	0	T5	U0			50		
LINE 51	5	1	T5	U1			51		
LINE 52	5	2	T5	U2			52		
LINE 53	5	3	T5	U3			53		
LINE 54	5	4	T5	U4			54		
LINE 55	5	5	T5	U5			55		
LINE 56	5	6	T5	U6			56		
LINE 57	5	7	T5	U7			57		
LINE 58	5	8	T5	U8			58		
LINE 59	5	9	T5	U9			59		
LINE 60	6	0	T6	U0			60		
LINE 61	6	1	T6	U1			61		
LINE 62	6	2	T6	U2			62		
LINE 63	6	3	T6	U3			63		
LINE 64	6	4	T6	U4			64		
LINE 65	6	5	T6	U5			65		
LINE 66	6	6	T6	U6			66		
LINE 67	6	7	T6	U7			67		
LINE 68	6	8	T6	U8			68		
LINE 69	6	9	T6	U9			69		
LINE 70	7	0	T7	U0			70		
LINE 71	7	1	T7	U1			71		
LINE 72	7	2	T7	U2			72		
LINE 73	7	3	T7	U3			73		
LINE 74	7	4	T7	U4			74		
LINE 75	7	5	T7	U5			75		
LINE 76	7	6	T7	U6			76		
LINE 77	7	7	T7	U7			77		
LINE 78	7	8	T7	U8			78		
LINE 79	7	9	T7	U9			79		

	SWITCH	VERTICAL	TENS RELAY	UNITS RELAY	TRUNK GROUP RELAY	CLASS OF SERVICE	DIALED NUMBER (SEE NOTE B)	HUNTING GROUP (SEE NOTE A)	REMARKS
ATT TRK 0	8	0		U0	TK0		00		INTERCEPT
ATT TRK 0	8	0	TR1	U6‖U5	TK0		05		ATT
ATT TRK 1	0	5		U1	TK0		01		INTERCEPT
ATT TRK 1	0	5	TR0	U5‖U6	TK0		06		ATT
ATT TRK 2	0	6		U2	TK0		02		INTERCEPT
ATT TRK 2	0	6	TR0	U6‖U7	TK0		07		ATT
MISC TRK 0	2	0	T2	U0	TK8		80		
MISC TRK 1	2	1	T2	U1	TK8		81		
MISC TRK 2	2	2	T2	U2	TK8		82		NOTE 314
MISC TRK 3	2	3	T2	U3	TK8		83		NOTE 314
MISC TRK 4	2	4	T2	U4	TK8		84		
MISC TRK 5	2	5	T2	U5	TK8		85		
MISC TRK 6	2	6	T2	U6	TK8		86		NOTE 314
MISC TRK 7	2	7	T2	U7	TK8		87		NOTE 314
MISC TRK 8	2	8	T2	U8	TK8		88		
MISC TRK 9	2	9	T2	U9	TK8		89		
REGISTER 0	0	8	R0		RG				WORK
REGISTER 0	0	9	R0		RG				MEMORY
REGISTER 1	1	8	R1		RG				WORK
REGISTER 1	1	9	R1		RG				MEMORY
JUNCTOR 0	1	0			JT				ORIG
JUNCTOR 0	1	1			JT				TERM
JUNCTOR 1	1	2			JT				ORIG
JUNCTOR 1	1	3			JT				TERM
JUNCTOR 2	1	4			JT				ORIG
JUNCTOR 2	1	5			JT				TERM
JUNCTOR 3	8	1			JT				ORIG
JUNCTOR 3	8	2			JT				TERM
JUNCTOR 4	8	3			JT				ORIG
JUNCTOR 4	8	4			JT				TERM
JUNCTOR 5	1	6			JT				ORIG
JUNCTOR 5	1	7			JT				TERM
CO TRK 0	0	0	TRM1	U9	TK9	COT	99		
CO TRK 1	0	1	TRM1	U8	TK9	COT	98		
CO TRK 2	0	2	TRM1	U7	TK9	COT	97		
CO OR RD T TRK 3	0	3	TRM1	U6	TK9	COT	96		NOTE 312
CO OR RD T TRK 4	0	4	TRM1	U5	TK9	COT	95		NOTE 312
CO TRK 5	8	5	TRM0	U4	TK9	COT	94		
CO TRK 6	8	6	TRM0	U3	TK9	COT	93		
CO TRK 7	8	7	TRM0	U2	TK9	COT	92		
CO OR RD T TRK 8	8	8	TRM0	U1	TK9	COT	91		NOTE 312
CO OR RD T TRK 9	8	9	TRM0	U0	TK9	COT	90		NOTE 312
BUSY TONE TRK	0	7		U0	BTC				

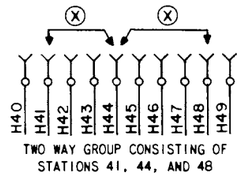
NOTE A: THE HUNTING GROUP COLUMN IS PROVIDED TO RECORD THE HUNTING GROUP ASSIGNMENTS AND THE HUNTING PATTERN WITHIN EACH GROUP. THE FOLLOWING ILLUSTRATES A SUGGESTED METHOD OF RECORDING THE HUNTING INFORMATION FOR SOME OF THE EXAMPLES USED IN NOTE 302.

	HUNTING GROUP
LINE 40	
LINE 41	
LINE 42	
LINE 43	
LINE 44	
LINE 45	
LINE 46	
LINE 47	
LINE 48	
LINE 49	

B. DIALED NUMBERS FOR TRUNKS ARE SHOWN FOR MAINTENANCE INFORMATION. THE ATT TRUNKS ARE REACHED BY DIALING ONLY THE TENS DIGIT ZERO. WHERE RD T TRUNKS ARE NOT PROVIDED AND ONLY ONE GROUP OF CENTRAL OFFICE TRUNKS ARE PROVIDED, THE CENTRAL OFFICE TRUNKS ARE REACHED BY DIALING ONLY THE TENS DIGIT NINE. LINE CIRCUITS IN THE 20-29 GROUP WHICH ARE ASSIGNED TO THE 3A CODE CALL CKT (CALLING END), LOUD SPEAKER PAGING TRUNK, DIAL CONFERENCE CKT, RECORDED TELEPHONE DICTATION TRUNK, OR A TWO WAY TIE TRUNK ARE REACHED BY DIALING THE CORRESPONDING 80-89 NUMBER. LINE CIRCUITS IN THIS GROUP WHICH ARE ASSIGNED TO THE 3A CODE CALL CIRCUIT (ANSWERING END) OR STATIONS ARE REACHED BY DIALING THE 20-29 NUMBER.

302. TWO WAY, ONE WAY, OR COMBINATIONS OF TWO WAY AND ONE WAY HUNTING GROUPS MAY BE FORMED USING ANY NUMBER OF STATIONS WITHIN A TENS GROUP.

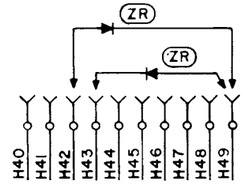
(a) A TWO WAY HUNTING GROUP MAY BE FORMED BY PROVIDING X OPTION BETWEEN THE H TERMINALS OF THE STATIONS INCLUDED IN THE GROUP, FOR EXAMPLE:



TWO WAY GROUP CONSISTING OF STATIONS 41, 44, AND 48

IF EITHER STATION 41, 44, OR 48 IS DIALED AND FOUND BUSY, MARKER WILL COMPLETE CALL INDISCRIMINATELY TO WHICHEVER OF THE OTHER TWO STATIONS IS IDLE.

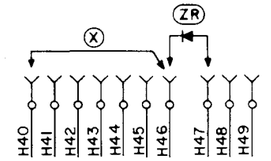
(b) A ONE WAY HUNTING GROUP MAY BE FORMED BY PROVIDING ZR OPTION BETWEEN THE H TERMINALS OF THE STATIONS INCLUDED IN THE GROUP WITH THE ARROW ON EACH DIODE POINTING IN THE HUNTING DIRECTION DESIRED, FOR EXAMPLE:



ONE WAY GROUP CONSISTING OF STATIONS 42, 43, AND 49

IF STATION 42 IS DIALED AND FOUND BUSY, MARKER WILL COMPLETE CALL INDISCRIMINATELY TO EITHER STATION 43 OR 49, WHICHEVER IS IDLE. IF STATION 49 IS DIALED AND FOUND BUSY, MARKER WILL COMPLETE CALL TO STATION 43 IF IDLE. IF STATION 43 IS DIALED AND FOUND BUSY, MARKER WILL COMPLETE CALL TO BUSY TONE TRUNK.

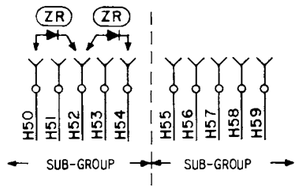
(c) A COMBINED HUNTING GROUP MAY BE FORMED BY PROVIDING X AND ZR OPTIONS BETWEEN THE H TERMINALS OF THE STATIONS INCLUDED IN THE GROUP IN ANY COMBINATION REQUIRED TO PRODUCE THE HUNTING PATTERN DESIRED, FOR EXAMPLE:



COMBINED GROUP CONSISTING OF STATIONS 40, 46 AND 47

IF STATION 40 IS DIALED AND FOUND BUSY, MARKER WILL COMPLETE CALL TO STATION 46 IF IDLE. IF STATION 46 IS DIALED AND FOUND BUSY, MARKER WILL COMPLETE CALL TO STATION 40 IF IDLE. IF STATION 47 IS DIALED AND FOUND BUSY, MARKER WILL COMPLETE CALL INDISCRIMINATELY TO EITHER STATION 40 OR 46, WHICHEVER IS IDLE.

(d) A ONE WAY SEQUENTIAL HUNTING PATTERN MAY BE PROVIDED IF ALL OF THE STATIONS TO BE INCLUDED IN THE GROUP ARE IN THE SAME SUB-GROUP OF FIVE STATIONS AND THE HUNTING SEQUENCE CONFORMS WITH THE NUMERICAL SEQUENCE OF THE STATION NUMBERS, FOR EXAMPLE:



ONE WAY SEQUENTIAL GROUP CONSISTING OF STATIONS 50, 52, AND 54

IF STATION 50 IS DIALED AND FOUND BUSY, MARKER WILL ALWAYS ATTEMPT TO COMPLETE CALL TO STATION 52 FIRST AND ONLY IF STATION 52 IS ALSO BUSY WILL IT TRY TO CONNECT TO STATION 54. IF STATION 52 IS DIALED AND FOUND BUSY, MARKER WILL COMPLETE CALL TO STATION 54 IF IDLE. IF STATION 54 IS DIALED AND FOUND BUSY, MARKER WILL COMPLETE CALL TO BUSY TONE TRUNK.

DRAWING ISSUE
12B D.L. W.M.
16B 10-2-70

PBX SYSTEMS
NO. 756A
LINE, LINK, AND MARKER CIRCUIT

SD-65741-01-D2

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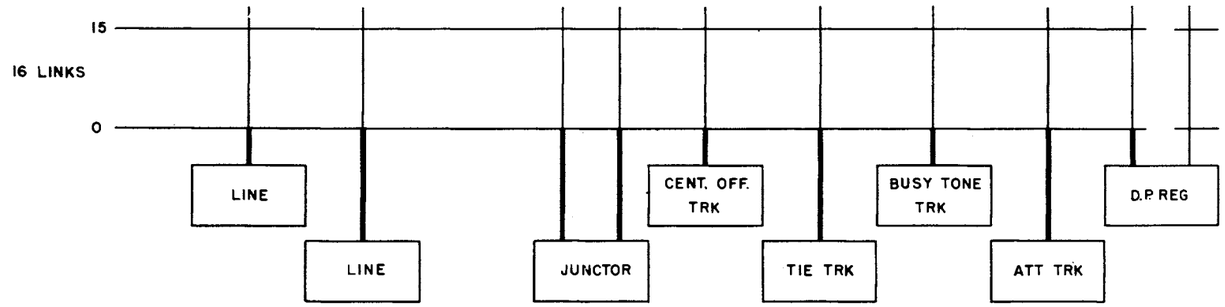
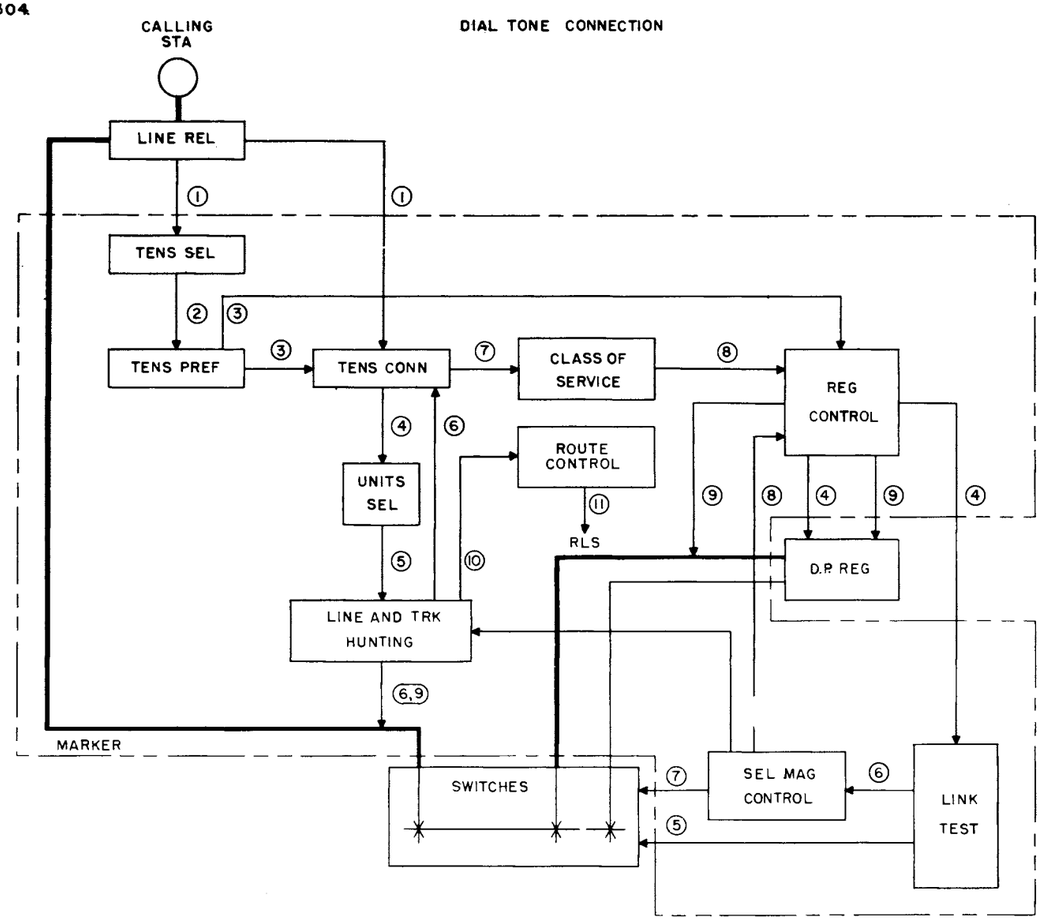
303

SWITCHING PLAN
70 OR 90 VERTICALS



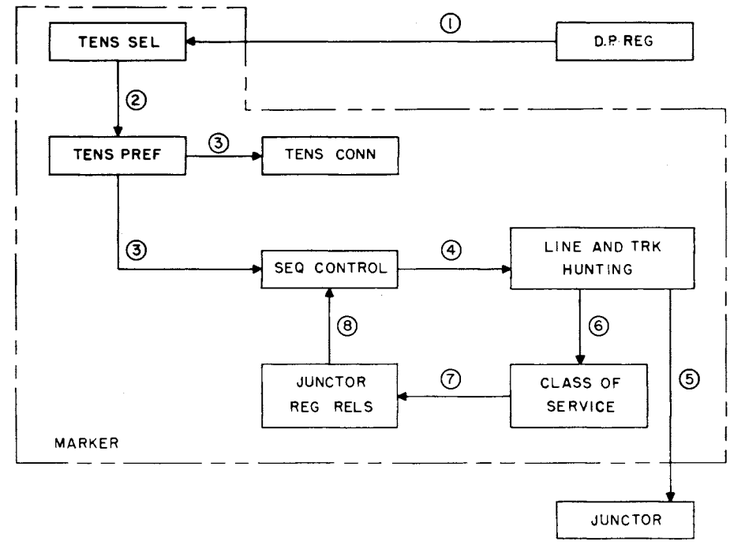
304

DIAL TONE CONNECTION



305.

STATION LINE TO STATION LINE
JUNCTOR SELECTION



DRAWING ISSUE
1 BA MR WS

NO. 756A
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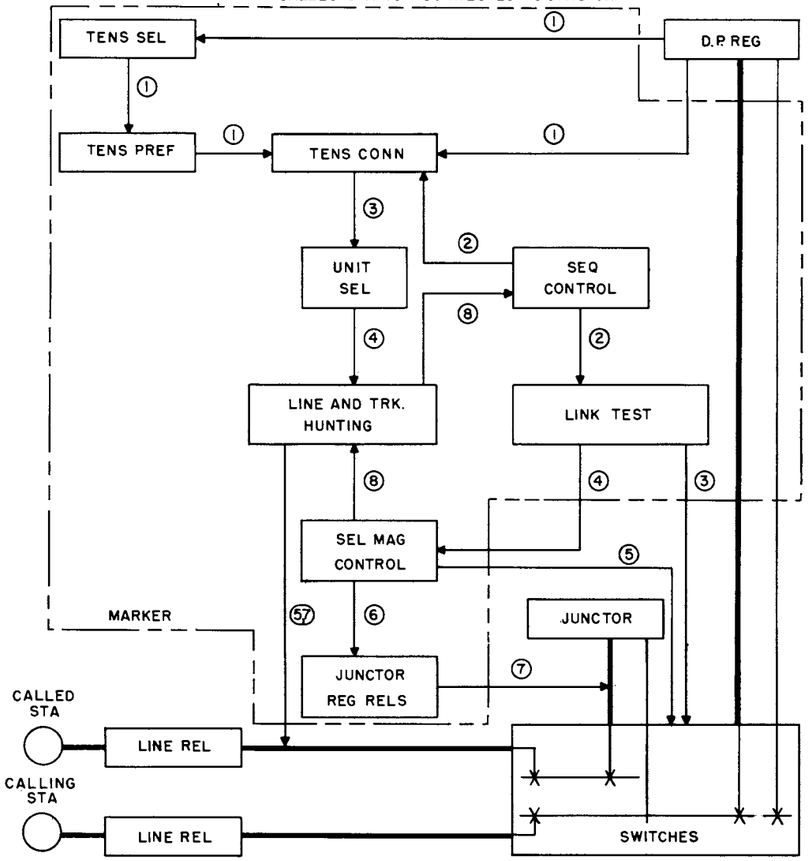
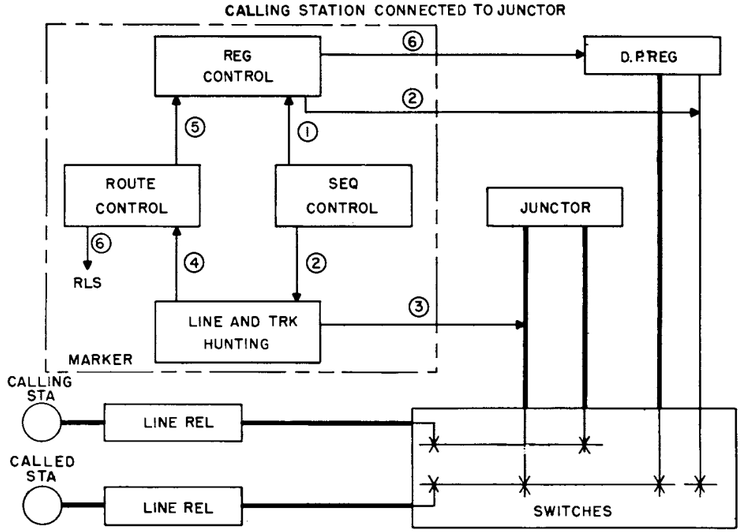
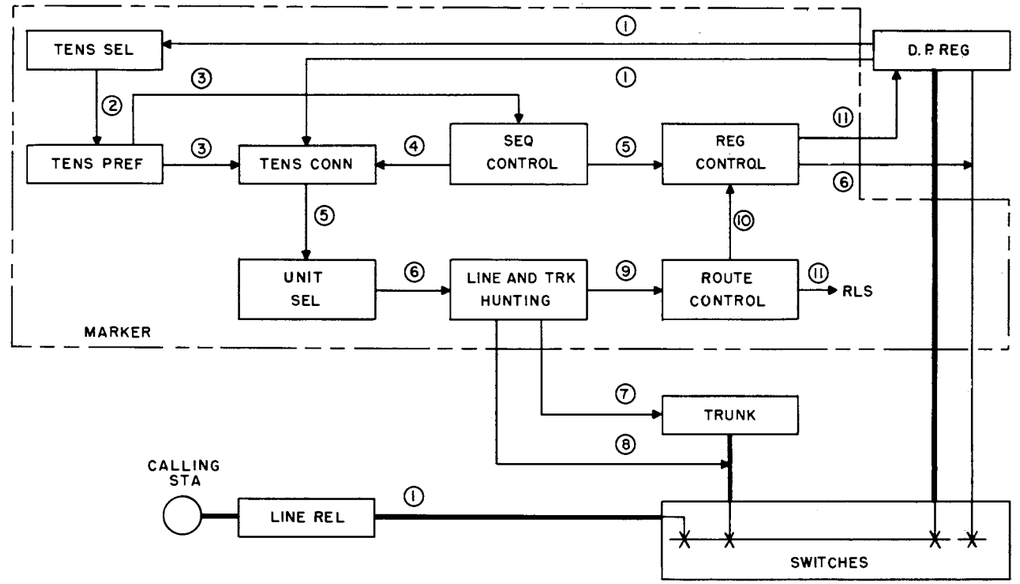
306. STATION LINE TO STATION LINE
CALLED STATION CONNECTED TO JUNCTOR



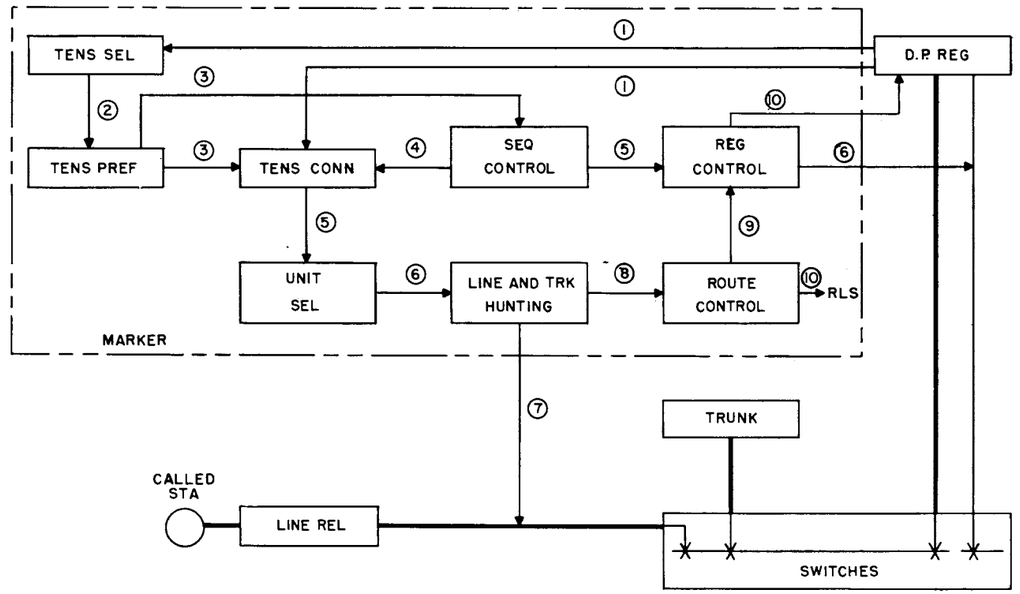
307. STATION LINE TO STATION LINE
CALLING STATION CONNECTED TO JUNCTOR



308. STATION LINE TO TRUNK



309. TRUNK TO STATION LINE



DRAWING ISSUE 1 BAA M.R. W

NY

SD-65741-01-D4

NO. 756A
LINE, LINK AND MARKER CIRCUIT

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INFORMATION NOTES: (CONT)

310. THE IT-- LEADS ARE ASSOCIATED WITH THE CENTRAL OFFICE & RINGDOWN TIE TRUNK CIRCUITS IN DIRECT ORDER SUCH THAT IT90 CONNECTS TO TRUNK 0, IT91 TO TRUNK 1, ETC. HOWEVER, THE IT-- LEADS ARE ASSOCIATED WITH THE(S-) RELAYS THROUGH THE(TK9) RELAY IN REVERSE ORDER SUCH THAT IT99 CONNECTS TO(S0),IT98 TO(S1), ETC. THIS IS DONE TO INSURE THAT THE FIRST CHOICE TRUNKS FROM THE PBX TO THE CENTRAL OFFICE ARE NOT ALSO THE FIRST CHOICE TRUNKS FROM THE CENTRAL OFFICE TO THE PBX.

311. WHEN LINE CIRCUITS 20-29 ARE ASSOCIATED WITH TWO WAY TIE TRUNKS, TERMINAL PUNCHINGS CS80-89 ARE USED IN MAKING CLASS OF SERVICE CROSS CONNECTIONS. THIS IS PROVIDED MERELY AS A CROSS CONNECTION WIRING CONVENIENCE. CIRCUIT WISE, TERMINAL PUNCHINGS CS80-89 ARE WIRED DIRECTLY TO TERMINAL PUNCHINGS CS20-29.

312. WHEN PLUG-IN CENTRAL OFFICE OR RINGDOWN TIE TRUNKS ARE NOT PROVIDED, IN CENTRAL OFFICE TRUNK POSITIONS 3,4,8, OR 9, CONNECT GROUND TO THE IT93, IT94, IT98, OR IT99 LEADS CORRESPONDING TO THE UNEQUIPPED POSITIONS.

313. "R" OPTION IS SPECIFIED FOR LINES 30, 31 AND 32 TO PROVIDE FOR AUTOMATICALLY TRANSFERRING THESE STATION LINES TO TWO WAY CENTRAL OFFICE TRUNKS 0, 1 AND 2 RESPECTIVELY WHEN A POWER FAILURE OCCURS. IF THE TWO WAY CENTRAL OFFICE TRUNKS ARE NOT ARRANGED FOR FLEXIBILITY IN SETTING UP NIGHT CONNECTIONS (I.E., FURNISHED PER SD-65752-01, ISSUE 6B OR PRIOR ISSUES), "R" OPTION SHOULD ALSO BE PROVIDED IN LINE 33 AND STATION LINES 30, 31, 32 AND 33 WILL TRANSFER TO TRUNKS 0, 1, 2 AND 5 RESPECTIVELY WHEN EITHER A POWER FAILURE OCCURS OR WHEN THE PBX ATTENDANT OPERATES THE (NIGHT) KEY IN THE CORDLESS POSITION CIRCUIT.

314. WHEN A DIAL CONFERENCE CIRCUIT IS PROVIDED AND ASSIGNED TO TRUNK TERMINALS 80-84, "YG" OPTION SHOULD BE FURNISHED BETWEEN TERMINALS H82 AND H83. IF THE CIRCUIT IS ASSIGNED TO TRUNK TERMINALS 85-89, "YG" OPTION SHOULD BE FURNISHED BETWEEN TERMINALS H87 AND H88. (MANUFACTURED DISCONTINUED)

315. "YT" OPTION IS ASSOCIATED WITH CENTRAL OFFICE TRUNK 0 AND ATTENDANT TRUNK 2 WHEN BUSY VERIFICATION IS PROVIDED.

316. THE STATION DIAL TRANSFER WITH ADD-ON CONFERENCE FEATURE REQUIRES OPTIONS "YX" AND "YV" REPLACING OPTION "YW".

317. WHEN A DIAL CONFERENCE TRUNK CIRCUIT-STATION CONTROLLED IS PROVIDED, ANY SIX TIE TRUNK TERMINALS MAY BE USED AS PORTS OF THE CONFERENCE CIRCUIT. ASSIGNMENT OF A CONSECUTIVE SEQUENCE OF TRUNK TERMINALS IS NOT A REQUIREMENT. THE TRUNK TERMINAL ASSIGNED AS ENTRY PORT TO THE CONFERENCE CONTROL CIRCUIT SHOULD BE GIVEN A RINGDOWN TIE TRUNK (RTT) CLASS OF SERVICE AND THE OTHER FIVE TRUNK TERMINALS SHOULD BE GIVEN A CENTRAL OFFICE TRUNK (COT) CLASS OF SERVICE BY SUITABLE STRAPPING AT THE PBX TERMINAL STRIPS. TRUNK TERMINAL ASSIGNED (COT) CLASS ARE ON A "SERVICE DENIED" BASIS WITH THE EXCEPTION THAT THE TRUNK TERMINAL ASSIGNED TO CONFERENCE PORT 5 MAY BE USED FOR A DIAL BACK CONNECTION BY THE ATTENDANT FOR CONNECTION OF A CENTRAL OFFICE TRUNK.

318. WHEN A DIAL CONFERENCE TRUNK CIRCUIT-ATTENDANT CONTROLLED IS PROVIDED, ANY FIVE TIE TRUNK TERMINALS MAY BE USED AS PORTS OF THE CONFERENCE CIRCUIT. ASSIGNMENT OF A CONSECUTIVE SEQUENCE OF TRUNK TERMINALS IS NOT A REQUIREMENT. THE FIVE TRUNK TERMINALS SHOULD BE GIVEN A CENTRAL OFFICE TRUNK (COT) CLASS OF SERVICE BY SUITABLE STRAPPING AT THE PBX TERMINAL STRIPS AND ARE ON A "SERVICE DENIED" BASIS WITH THE EXCEPTION THAT THE TRUNK TERMINAL ASSIGNED TO CONFERENCE PORT 5 MAY BE USED FOR A DIAL BACK CONNECTION BY THE ATTENDANT FOR CONNECTION OF A CENTRAL OFFICE TRUNK.

319. WHEN AN INWARD RESTRICTION CIRCUIT IS PROVIDED, OPTION XP MUST BE PROVIDED REPLACING OPTION XO, OPTION XQ ALSO MUST BE PROVIDED. IF THE BUSY VERIFICATION CIRCUIT IS ALSO PROVIDED OPTION XR MUST BE PROVIDED REPLACING OPTION XQ. TO RESTRICT A STATION LINE SEE (SD-5E003-01 CROSS CONN. INFORMATION NOTE 401).

320. WHEN THE LONG DISTANCE SERVICE FEATURE USES CENTRAL OFFICE TRUNK CIRCUIT NUMBER 6,7,8 OR 9, CONNECT THE "H" PUNCHINGS FOR THE TRUNKS USED TO PUNCHING H99 TO PLACE THE TRUNKS IN THE SAME HUNTING GROUP.

321. WHEN OPTION WI IS REQUIRED, INSTALLER SHALL CUT STRAP BETWEEN 3 OF THE LINE HOLD MAGNET AND TERMINAL 2 LEVEL 1 OF THE CROSS-BAR SWITCH FOR EACH ASSOCIATED STATION LINE 33 THROUGH 79. STATION LINES 20 THROUGH 32 SHALL BE ENGINEERED LOCALLY.

322. WHEN OFF-PREMISE STATIONS USING REPEATERS ARE SPECIFIED, THESE STATIONS SHOULD BE CONNECTED TO FS26 TO OBTAIN A BALANCED LOOP.

EQUIPMENT NOTE:

201. BECAUSE OF THE LIMITED AVAILABILITY OF MOUNTING SPACE, WHEN PAD CONTROL IS PROVIDED FOR CODE 8 TIE TRUNKS IT MAY BE NECESSARY TO MOUNT APP. FIGS 19,20 & 21 AND THE TRUNK EXTERNAL TO THE PBX CABINET. CONSEQUENTLY, THE CONTROL LEADS (OPTION WF) FOR THE PAD CONTROL CIRCUIT HAVE BEEN TERMINATED IN THE CROWN OF THE PBX.

202. WHEN OPTION VD IS REQUIRED, INSTALLER SHALL

1. REMOVE
   (a) SURFACE WIRE LEAD ON 2B OF RELAY OT 20-29 COMING FROM 1L OF RELAY L20-29
   (b) LOCAL CABLE LEAD ON 3B OF RELAY OT 20-29 COMING FROM 1 OF LHM 20-29
2. RECONNECT
   (a) SURFACE WIRE LEAD TO 3B OF RELAY OT 20-29
   (b) LOCAL CABLE LEAD TO 2B OF RELAY OT 20-29

203. WHEN OPTION VF IS REQUIRED INSTALLER SHALL REMOVE AND INSULATE SURFACE WIRE LEAD ON 1M OF RELAY OT 20-29 AND ADD A LEAD BETWEEN 5M AND 1M OF RELAY OT 20-29.

DRAWING ISSUE	
12B	RQ WM
16B	JAS HP MB
21B	FO WH RD
23D	ZEN PMC ARH
24D	GAP KFJ
25D	GAP SAK KFJ
29B	WPA SAK GFH
30D	PMB PJS GFH
31D	PMC PJS NHP
37B	ROZ PJS LDJ

P.O.B. HO HW

37

LINE, LINK, AND MARKER CIRCUIT (2)

SD-65741-01-D5

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SC 1

STATION DIAL TONE CONNECTION
SEE NOTE 1

STATION 39 LIFTS HANDSET

L39
T3
TEA(0-3),
TEB(0-3)
TP3
MT (A,B)
TSD (A,B)
TCK(1-4)
STARTS MARKER TIMING SC 16
TAC(A,AA,B,BA)
LUC(A,B)
UL(A,B)
RG(A,AA,B,BA)
STARTS ABANDON CALL TIMING SC 17
U9
TM3,N9,P11
S9
UE(A,B)
SE(A,AA,B,BA)
LUC(A,B)
STOPS ABANDON CALL TIMING
LT(A,AA,B,BA)
SMC(0,1)
LTC(A,B)
LT(2-9)
(22)
LINK BUSY LAMPS (MB CKT) (SEE NOTE 4)
STARTS LINK SHIFT TIMING SC10,SC21 OR SC34
STEPS LINK GROUP SEQ CONTROL SC24
STEPS LINK SEQ CONTROL SC 23
SEE NOTE 2
(9)
LTS(2-9)
LE(A,AA,B,BA)
STOPS LINK SHIFT TIMING
SO
SMT (A,B)
SMR (A,AA,B,BA)
LHM39 HOLD
THM(08,09) HOLD
HMT(AA,BA)
ASSOC BUSY LAMPS IN ATT EQUIP (IF PROVIDED)
L39
LINK 12 LAMP (MB CKT)
CROSSPOINTS 1 & 2 CLOSE
L (REG)
SR (REG)
HMT(A,B)
RHK(A,B)
HMK(A,B)
DCK(A,B)
RL(A,AA,AB,B,BA,BB)
VG
TM3
S9,E12
TU3
TCS3
THC3
VH
SMC3
WIL
ZL
TRL (A,B)
RAO(A,B)
LT(A,B)
LTC(A,B)
LT (2-9)
SM(0,1,3)2 SEL
SM(0,1,3) 1 SEL
TOLL DENIED CLASS OF SERV.
TOLL ALLOWED
SEE NOTE 3
TLA CLASS OF (REG) SERV.
TLD (REG)
TLD (REG)
MT(A,B)
TCK(1-4)
STOPS MARKER TIMING
TA3
T3
TEA(0-3),
TEB(0-3)
TSD (A,B)
TA3
TP3
TAC(A,AA,B,BA)
RAO(A,B)
UL(A,B)
UE (A,B)
U9
TCS3,THC3, TM3,TU3
SMC3
RG(A,AA,B,BA)
HMK (A,B)
SMC(0,1)
RHK (A,B)
LT(AA,BA)
STEPS LINK GROUP SEQ CONTROL
STEPS LINK SEQ CONTROL
LE(A,AA,B,BA)
(9)
LTS(2-9)
SM(0,1,3)1,2 SEL
(22)
LT (2-9)
SR
SMT(A,B)
SMR (A,AA,B,BA)
S9
SE(A,AA,B,BA)
SR
HMT (A,B)
HMT(AA,BA)
DCK(A,B)
RL(A,AA,AB,B,BA,BB)

SHEET NOTES:

1. SC1 ASSUMES THE FOLLOWING:
   (A) NO OTHER LINE, TRUNK, OR REGISTER IS BIDDING FOR THE MARKER.
   (B) THE PREVIOUS MARKER OPERATION HAS LEFT THE (RAOA) AND (RAOB) RELAYS OPERATED SO THAT REGISTER O IS SELECTED ON THIS CALL.
   (C) THE PREVIOUS MARKER OPERATION HAS LEFT THE (TRLA) AND (TRLB) RELAYS OPERATED SO THAT LINKS IN THE 12-19 GROUP ARE TESTED FIRST.
   (D) THE PREVIOUS MARKER OPERATION HAS LEFT LINK SEQUENCE CONTROL IN CONDITION SO THAT THE (WIL) AND (ZL) RELAYS WILL REMAIN OPERATED AFTER THE (LTAA) AND (LTBA) RELAYS OPERATE DURING THIS MARKER OPERATION.
   (E) LINK 12 IS IDLE.
   (F) NO BLOCKAGES OR CHECK FAILURES OCCUR TO CAUSE THE MARKER TO MAKE A SECOND TRIAL OR PROGRESS TO A TROUBLE RELEASE.
2. LT2 TO LT9 RELAYS (OPTION 22) OR LT2 TO LT9 AND LTS2 TO LTS9 RELAYS (OPTION 9) CORRESPONDING TO IDLE LINKS IN GROUP BEING TESTED OPERATE.
3. IF THE STATION IS STRAPPED FOR RESTRICTED CLASS OF SERVICE, NEITHER THE (TLA) OR (TLD) RELAYS WILL OPERATE IN REGISTER CKT.
4. LINK BUSY LAMPS ASSOCIATED WITH IDLE LINKS IN GROUP BEING TESTED MOMENTARILY LIGHT IN THE MAKE BUSY AND BUSY DISPLAY CKT.

DRAWING ISSUE

12B	AEG LMC	1 POB
16B	JAS AP POB	2
30D	RAK RJS GFH	3 HW
32D	EWE SAK RHP	4
33D	ROZ RJS RHP	5
37B	ROZ RJS LDJ	6 7

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LINE, LINK, AND MARKER CIRCUIT

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SC 2
CENTRAL OFFICE TRUNK OR RINGDOWN
TIE TRUNK DIAL TONE CONNECTION
SEE NOTE 1

ATTENDANT STEERS INWARD FOR DIAL TONE CONNECTION OVER CENTRAL OFFICE OR RINGDOWN TIE TRUNK 8

SP (CDLS) POS
H (CDLS) POS
ACA (TRK)
HM (TRK)

TRI
TEA(0-3)
TEB(0-3)
TRPI
TAC(A,AA,B,BA)
LUC(A,B)
UL(A,B)
RG(A,AA,B,BA)

MT (A,B)
TSD (A,B)
TCK (I-4)

STARTS MARKER TIMING SC 16

STARTS ABANDON CALL TIMING SC 17

U8
S8
SE(A,AA,B,BA)
COT (REG)
UE(A,B)
LUC(A,B)
STOPS ABANDON CALL TIMING

LT(A,AA,B,BA)
LTC(A,B)
LT(2-9) (22) (9)
LTS(2-9)
SEE NOTE 2
LINK BUSY LAMPS (MB CKT) (SEE NOTE 3)
STARTS LINK SHIFT TIMING SC10, SC21, OR SC34
STEPS LINK GROUP SEQUENCE CONTROL SC24
STEPS LINK SEQUENCE CONTROL SC 23
STOPS LINK SHIFT TIMING

LE(A,AA,B,BA)
SO
SMT (A,B)
LT(A,B)
LTC(A,B)
(9) LT(2-9)

SMR(A,AA,B,BA)
HM(TRK)
THM88 HOLD
CROSSPOINTS 0 & 6 CLOSE
L(REG)
SR(REG)
SO
HMT(AA,BA)
HMT(A,B)

AC (REG)
LINK 06 LAMP (MB CKT)
SL(TRK)
RHK(A,B)
HMK(A,B)
DCK(A,B)
RL(A,AA,AB,B,BA,BB)

TRCI, TRMI, TRUI
SMCI
SMC(0,8)
WIL
ZL
TRL(A,B)
RAI (A,B)
RAO(A,B)
SM(0,1,8)6 SEL
SM(0,1,8) 0 SEL
THM(18,19) HOLD
CROSSPOINTS 0 & 6 CLOSE

MT(A,B)
STOPS MARKER TIMING
TCK(I-4)
TRAI
TRI
TEA(0-3)
TEB(0-3)
TSD(A,B)
TRAI
TRPI
TAC(A,AA,B,BA)
UL(A,B)
UE (A,B)
U8
TRCI, TRMI, TRUI
SMC8
HMK (A,B)
RG(A,AA,B,BA)
SMC (0,1)
RHK(A,B)
LT(AA,BA)
STEPS LINK SEQUENCE CONTROL
STEPS LINK GROUP SEQUENCE CONTROL
LE(A,AA,B,BA)
(9) LTS(2-9)
SM(0,1,8)0,6 SEL
(22) LT(2-9)
SR
SMT(A,B)
SMR(A,AA,B,BA)
S8
SE(A,AA,B,BA)
SR
HMT (A,B)
HMT (AA,BA)

DCK(A,B)
RL(A,AA,AB,B,BA,BB)

SHEET NOTES:

1. SC 2 ASSUMES THE FOLLOWING:
   (A) NO OTHER TRUNK, LINE, OR REGISTER IS BIDDING FOR THE MARKER.
   (B) THE PREVIOUS MARKER OPERATION HAS LEFT THE (RAA) & (RAIB) RELAYS OPERATED & THE (RAOA) & (RAOB) RELAYS RELEASED SO THAT REGISTER 1 IS SELECTED ON THIS CALL.
   (C) THE PREVIOUS MARKER OPERATION HAS LEFT THE (TRLA) & (TRLB) RELAYS RELEASED SO THAT LINKS IN THE 02-09 GROUP ARE TESTED FIRST.
   (D) THE PREVIOUS MARKER OPERATION HAS LEFT THE LINK SEQUENCE CONTROL IN CONDITION SO THAT THE (ZL) RELAY WILL REMAIN OPERATED AND THE (WIL) RELAY RELEASED AFTER THE (LTAA) & (LTBA) RELAYS OPERATE DURING THIS MARKER OPERATION.
   (E) LINK 06 IS IDLE.
   (F) NO BLOCKAGES OR CHECK FAILURES OCCUR TO CAUSE THE MARKER TO MAKE A SECOND TRIAL OR PROGRESS TO A TROUBLE RELEASE.
2. LT2 TO LT9 RELAYS (OPTION 22) OR LT2 TO LT9 AND LTS2 TO LTS9 RELAYS (OPTION 9) CORRESPONDING TO IDLE LINKS IN GROUP BEING TESTED OPERATE.
3. LINK BUSY LAMPS ASSOCIATED WITH IDLE LINKS IN GROUP BEING TESTED MOMENTARILY LIGHT IN THE MAKE BUSY & BUSY DISPLAY CKT.

DRAWING ISSUE
12B RJ P.O.B.
16B JOS
32D EWE SCW RHP ROZ
33D PJS RHP ROZ
37B PJS LDJ

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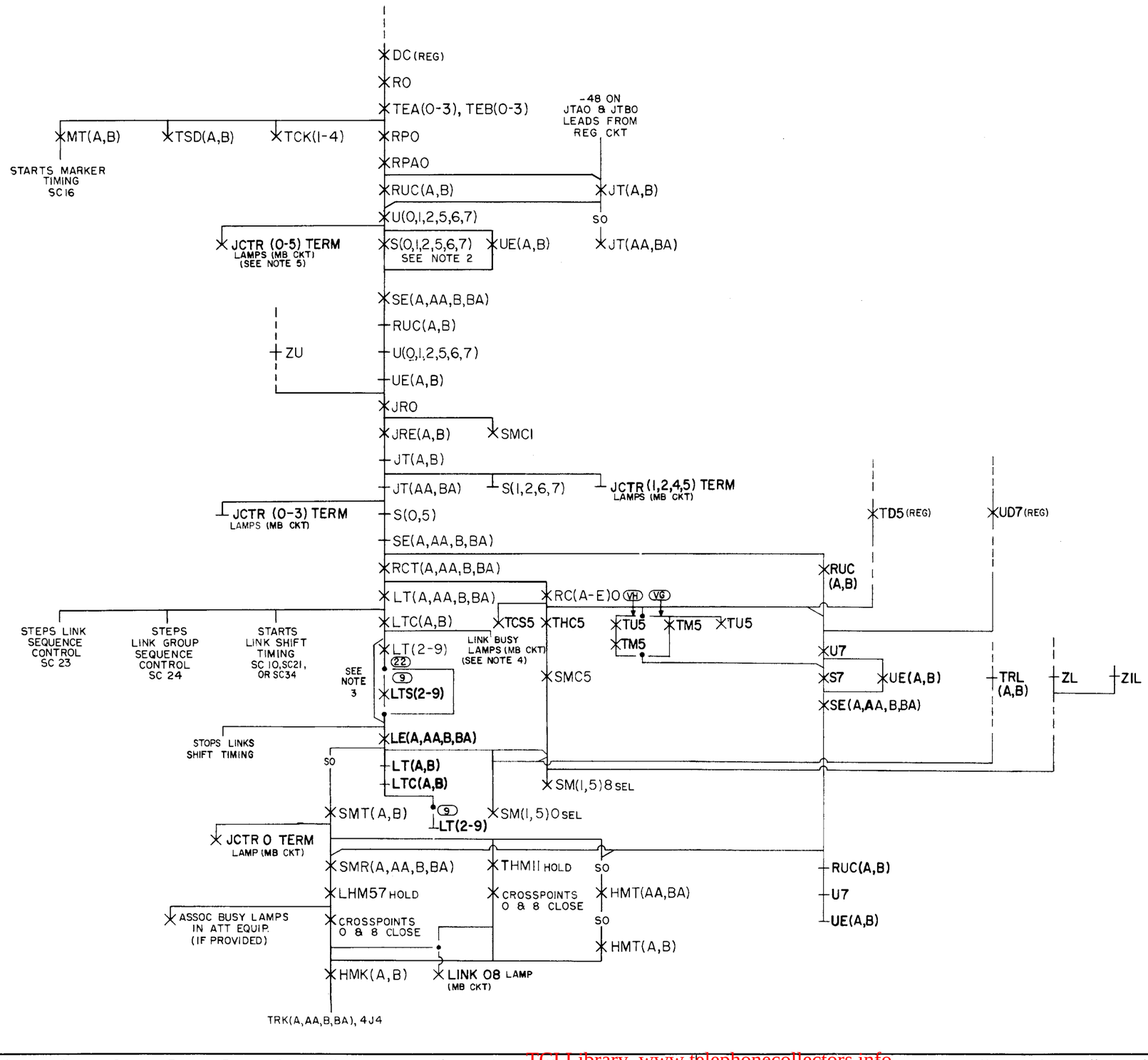
PART OF SC 3

STATION OR CODE 8 TIE TRUNK TO STATION CONNECTION
SEE NOTE 1



SHEET NOTES:

1. SC 3 ASSUMES THE FOLLOWING:
   (A) NO OTHER REGISTER, LINE, OR TRUNK IS BIDDING FOR THE MARKER.
   (B) THE PREVIOUS MARKER OPERATION HAS LEFT THE (TRLA) AND (TRLB) RELAYS RELEASED SO THAT LINKS IN 02-09 GROUP ARE TESTED FIRST.
   (C) THE PREVIOUS MARKER OPERATION HAS LEFT THE LINK SEQUENCE CONTROL IN CONDITION SO THAT THE (ZL) AND (ZIL) RELAYS WILL BE RELEASED AFTER THE (LTAA) AND (LTBA) RELAYS OPERATE DURING THIS MARKER OPERATION.
   (D) LINK 08 IS IDLE.
   (E) STATION 57 IS IDLE.
   (F) THE PREVIOUS MARKER OPERATION HAS LEFT THE UNITS SEQUENCE ALLOTTER IN CONDITION SO THAT THE (ZU) RELAY IS RELEASED DURING JUNCTOR SELECTION DURING THIS MARKER OPERATION.
   (G) JUNCTOR 0 IS IDLE.
   (H) LINK 12 WAS USED FOR THE STATION 39 TO REGISTER 0 DIAL TONE CONNECTION.
   (I) NO BLOCKAGES OR CHECK FAILURES OCCUR TO CAUSE THE MARKER TO MAKE A SECOND TRIAL OR PROGRESS TO A TROUBLE RELEASE.
2. (S0) TO (S2) AND (S5) TO (S7) RELAYS CORRESPONDING TO IDLE JUNCTORS WILL OPERATE.
3. LT2 TO LT9 RELAYS (OPTION 22) OR LTS2 TO LTS9 AND LT2 TO LT9 RELAYS (OPTION 9) CORRESPONDING TO IDLE LINKS IN GROUP BEING TESTED OPERATE.
4. LINK BUSY LAMPS ASSOCIATED WITH IDLE LINKS IN GROUP BEING TESTED MOMENTARILY LIGHT IN THE MAKE BUSY AND BUSY DISPLAY CKT.
5. JCTR TERM BUSY LAMPS ASSOCIATED WITH IDLE JUNCTORS MOMENTARILY LIGHT IN THE MAKE BUSY AND BUSY DISPLAY CIRCUIT.

DRAWING ISSUE		
12B	NC LHE	POB
16B	JDS KP POB	
30D	ABK PJS GFH EWE	HW
32D	JDS FHP	
33D	ROZ PJS RHP	
37B	ROZ PJS LDJ	

LINE, LINK, AND MARKER CIRCUIT (2)

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PART OF SC 3

STATION OR CODE & TIE TRUNK TO STATION CONNECTION

SHEET NOTES:
1. THE (RAOA) AND (RAOB) RELAYS OPERATE ONLY IF THE (RAIA) AND (RAIB) RELAYS ARE NOT OPERATED AT THE TIME.

DRAWING ISSUE
12B NC NWE
8B EG WW
30D SF WS GFH
32D EWE SW NH NOZ
33D RJS RFP

HMK(A,B), 3H38
TRK(A,AA,B,BA)
HMK(A,B)
THM09 HOLD
SM(1)1,2 SEL
TRC(A,AA,B,BA)
RCT(A,AA,B,BA)
LT(AA,BA)
RC(A-E)0
TCS5,THC5, TM5,TU5
SMC5
LE(A,AA,B,BA)
STEPS LINK SEQUENCE CONTROL
STEPS LINK GROUP SEQUENCE CONTROL
(22)
(3)
LTS(2-9)
LT(2-9)
SM(1,5)0,6 SEL
SR
SMT(A,B)
SMR(A,AA,B,BA)
S7
SE(A,AA,B,BA)
SR
HMT(A,B)
HMT(AA,BA)
TRK(A,AA,B,BA)
SO
SMT(A,B)
THM10 HOLD
JCTR 0 ORIG LAMP (MB CKT)
CROSSPOINTS 1 8 2 CLOSE
A (JUNCTOR 0)
B (JUNCTOR 0)
HMT(AA,BA)
HMT(A,B)
HMK(A,B)
DCK(A,B)
RL(A,AA,AB,B,BA,BB)
RLO
A
(IF PROVIDED)
MT(A,B)
STOPS MARKER TIMING
RRL(A,B) (REG)
DC (REG)
L (REG)
SR (REG)
ON (REG)
THM(08,09) HOLD
RRL(A,B) (REG)
T (REG) (IF OPERATED)
RAO(A,B) SEE NOTE 1
RO
TEA(0-3), TEB(0-3)
TSD(A,B)
RLO (IF PROVIDED)
TCK(1-4)
DCK(A,B)
RL(A,AA,AB,B,BA,BB)
RPO
RPAO
SM(1)1,2 SEL
TRC(A,AA,B,BA)
JRO
JRE(A,B)
SMC1
HMK(A,B)
SR
SMT(A,B)
SR
HMT(A,B)
HMT(AA,BA)

33

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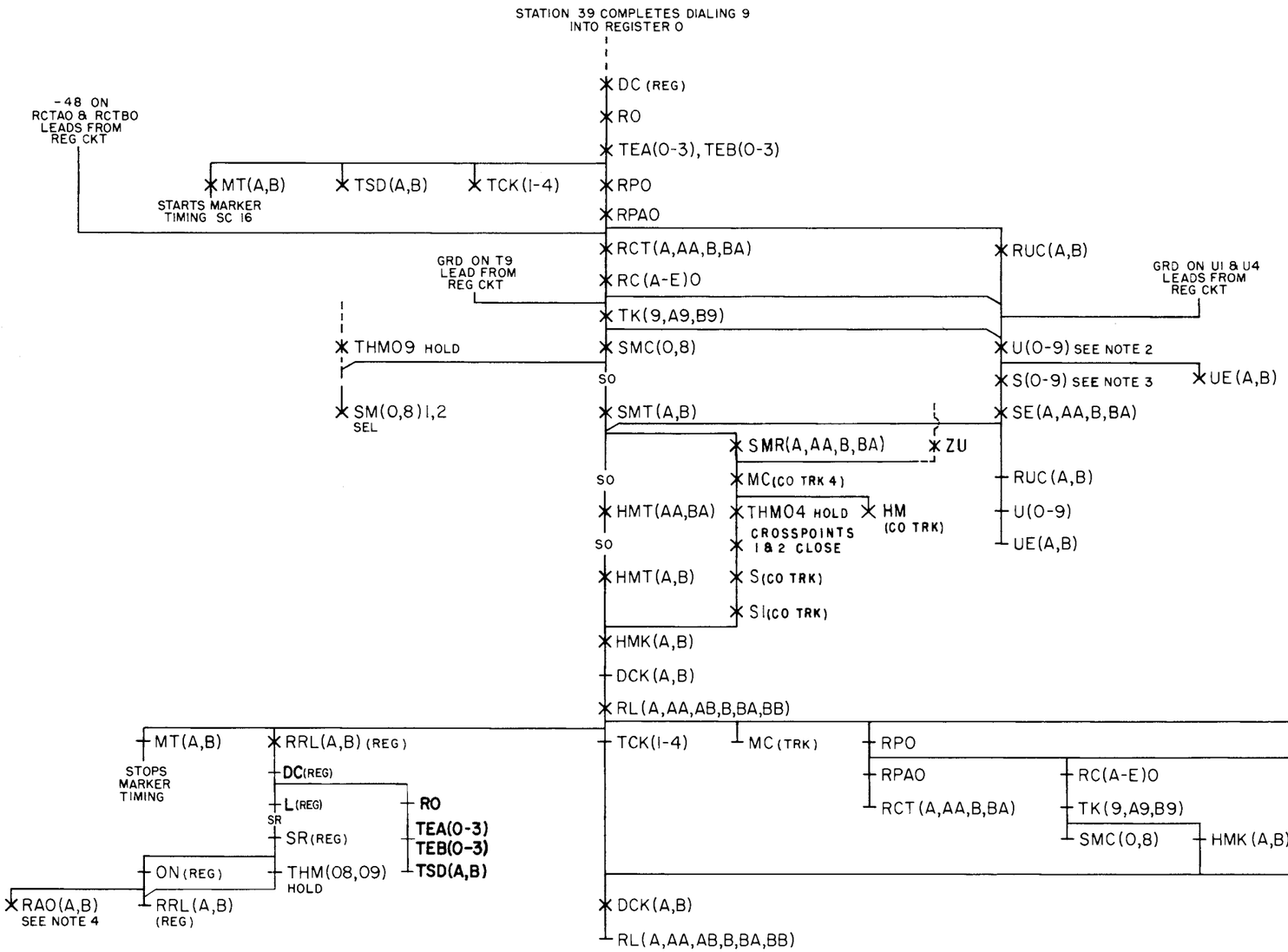
SC 4

STATION TO CENTRAL OFFICE
TRUNK CONNECTION
(ONE DIGIT OPERATION)
SEE NOTE 1



SHEET NOTES:

1. SC 4 ASSUMES THE FOLLOWING:
   - (A) NO OTHER REGISTER, LINE, OR TRUNK IS BIDDING FOR THE MARKER.
   - (B) THE PREVIOUS MARKER OPERATION HAS LEFT THE UNITS SEQUENCE CONTROL IN CONDITION SO THAT THE (ZU) RELAY IS OPERATED DURING THIS MARKER OPERATION.
   - (C) CENTRAL OFFICE TRUNK 4 IS IDLE.
   - (D) LINK 12 WAS USED FOR THE STATION 39 TO REGISTER 0 DIAL TONE CONNECTION.
   - (E) NO BLOCKAGES OR CHECK FAILURES OCCUR TO CAUSE THE MARKER TO MAKE A SECOND TRIAL OR PROGRESS TO A TROUBLE RELEASE.
2. (U0) TO (U9) RELAYS OPERATE SINCE PCHG H90-H99 WILL BE STRAPPED TOGETHER IN A PBX ARRANGED FOR ONE DIGIT OPERATION OF THE NINTH TENS GROUP.
3. (S0) TO (S9) RELAYS ASSOCIATED WITH EQUIPPED IDLE CENTRAL OFFICE TRUNKS (NOT WIRED FOR INCOMING SERVICE ONLY) WILL OPERATE.
4. THE (RAOA) & (RAOB) RELAYS OPERATE ONLY IF THE (RAIA) & (RAIB) RELAYS ARE NOT OPERATED AT THE TIME.

DRAWING ISSUE

12B	LMC LHE FO W/P 20	P.O.B.
21B		
33D	RCZ PJS RHB	HWS 2

33

LINE, LINK, AND MARKER CIRCUIT (2)

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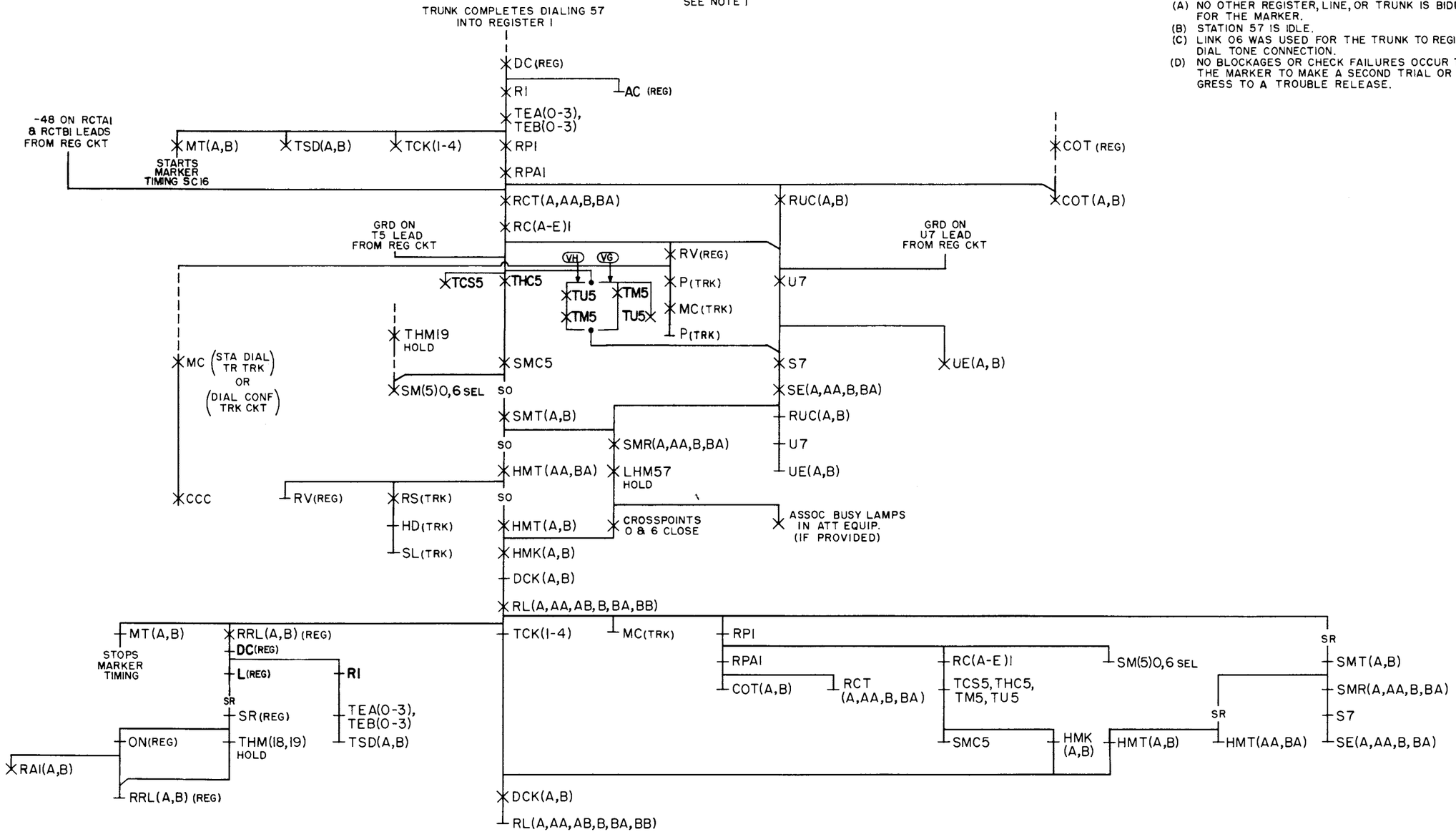
SC 5

CENTRAL OFFICE OR RINGDOWN TIE TRUNK
TO STATION CONNECTION
SEE NOTE 1

SHEET NOTES:
1. SC 5 ASSUMES THE FOLLOWING:
   (A) NO OTHER REGISTER, LINE, OR TRUNK IS BIDDING FOR THE MARKER.
   (B) STATION 57 IS IDLE.
   (C) LINK 06 WAS USED FOR THE TRUNK TO REGISTER 1 DIAL TONE CONNECTION.
   (D) NO BLOCKAGES OR CHECK FAILURES OCCUR TO CAUSE THE MARKER TO MAKE A SECOND TRIAL OR PROGRESS TO A TROUBLE RELEASE.



DRAWING ISSUE		
12B	AEG LHE	POB
16B	JDS A.F. PAB	
21B	F.C. WPM R.D.	
23D	ZRN DHC ARM	
33D	ROZ PJS RHT	
37B	ROZ PJS LDJ	

37

LINE, LINK, AND MARKER CIRCUIT (2) — SD-65741-01-E6

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SC 6

CENTRAL OFFICE OR RINGDOWN TIE TRUNK
TO CODE 8 TRUNK CONNECTION
SEE NOTE 1

TRUNK COMPLETES DIALING DIAL TIE
TRUNK CODE 83 INTO REGISTER 1

DC (REG)
RI
TEA(0-3), TEB(0-3)
RPI
RPAI
RCT(A,AA,B,BA)
RC(A-E)1

-48 ON
RCTAI & RCTBI LEADS
FROM REG CKT

COT (REG)
COT(A,B)

MT(A,B)
STARTS
MARKER
TIMING
SC 16

TSD(A,B)

TCK(1-4)

GRD ON
T8 LEAD
FROM REG CKT

RV (REG)
P (TRK)
MC (TRK)
TT (REG)
TT (TRK)
PC (TRK)
TK(8,A8,B8)

RUC(A,B)

GRD ON
U3 LEAD
FROM REG CKT

U3
UE(A,B)

(STA DIAL TR TRK OR DIAL CONF TRK CKT)
MC
CCC

THM 19
HOLD
SM(0,2)0,6 SOL SO

SMC(0,2)

LINE 83
LAMP (MB CKT)
S3

SE(A,AA,B,BA)

SMT(A,B)

RUC(A,B)
U3
UE(A,B)

SMR(A,AA,B,BA)
OT23
LHM23
CROSSPOINTS
0&6 CLOSE

SO

ASSOC BUSY LAMP
IN ATT EQUIP
(IF PROVIDED)

TT(REG)
B
MS
(IF PROVIDED)

HMT(AA,BA)
SO
RV(REG)
P(TRK)
HMT(A,B)

A
TDC(TIE TRK)
PO(TIE TRK)
(IF PROVIDED)

B(TIE TRK)
SEE NOTE 2

GRD ON
S2 LEAD

SL23

HMK(A,B)
DCK(A,B)
RL(A,AA,AB,B,BA,BB)
RL1 (IF PROVIDED)

MARKER RELEASE
SIMILAR TO RELEASE
ON SC 5

SHEET NOTES:

1. SC 6 ASSUMES THE FOLLOWING:
   (A) DIAL TIE TRUNK 83 IS IDLE.
   (B) LINK 06 WAS USED FOR THE TRUNK TO REGISTER DIAL TONE CONNECTION.
   (C) NO BLOCKAGES OR CHECK FAILURES OCCUR TO CAUSE THE MARKER TO MAKE A SECOND TRIAL OR PROGRESS TO A TROUBLE RELEASE.
2. RELAY B ON TIE TRUNK PER SD-65718-01 OR EQUIVALENT RELAY ON SIMILAR TIE TRUNKS.

DRAWING ISSUE
12B
16B
23D
30D
32D

SD-65741-01-E7

32

LINE, LINK, AND MARKER CIRCUIT (2)

BELL TELEPHONE LABORATORIES INCORPORATED

SD-65741-01-E7

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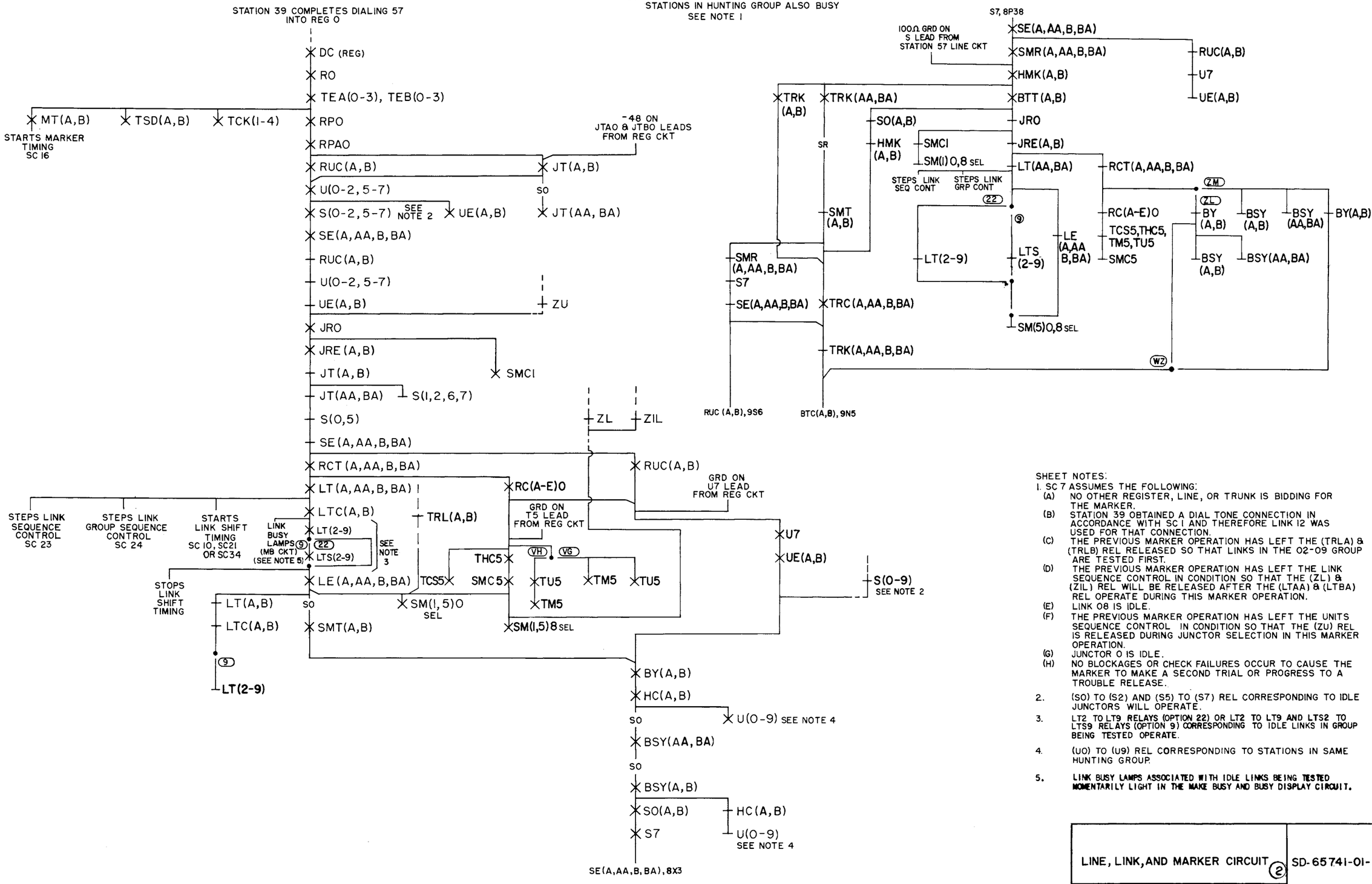
PART OF SC 7

STATION TO STATION CALL TO
BUSY STATION - BUSY TONE TRUNK IDLE - ALL
STATIONS IN HUNTING GROUP ALSO BUSY
SEE NOTE 1



SHEET NOTES:

1. SC 7 ASSUMES THE FOLLOWING:
   - (A) NO OTHER REGISTER, LINE, OR TRUNK IS BIDDING FOR THE MARKER.
   - (B) STATION 39 OBTAINED A DIAL TONE CONNECTION IN ACCORDANCE WITH SC 1 AND THEREFORE LINK 12 WAS USED FOR THAT CONNECTION.
   - (C) THE PREVIOUS MARKER OPERATION HAS LEFT THE (TRLA) & (TRLB) REL RELEASED SO THAT LINKS IN THE 02-09 GROUP ARE TESTED FIRST.
   - (D) THE PREVIOUS MARKER OPERATION HAS LEFT THE LINK SEQUENCE CONTROL IN CONDITION SO THAT THE (ZL) & (ZIL) REL WILL BE RELEASED AFTER THE (LTAA) & (LTBA) REL OPERATE DURING THIS MARKER OPERATION.
   - (E) LINK 08 IS IDLE.
   - (F) THE PREVIOUS MARKER OPERATION HAS LEFT THE UNITS SEQUENCE CONTROL IN CONDITION SO THAT THE (ZU) REL IS RELEASED DURING JUNCTOR SELECTION IN THIS MARKER OPERATION.
   - (G) JUNCTOR 0 IS IDLE.
   - (H) NO BLOCKAGES OR CHECK FAILURES OCCUR TO CAUSE THE MARKER TO MAKE A SECOND TRIAL OR PROGRESS TO A TROUBLE RELEASE.
2. (SO) TO (S2) AND (S5) TO (S7) REL CORRESPONDING TO IDLE JUNCTORS WILL OPERATE.
3. LT2 TO LT9 RELAYS (OPTION 22) OR LT2 TO LT9 AND LTS2 TO LTS9 RELAYS (OPTION 9) CORRESPONDING TO IDLE LINKS IN GROUP BEING TESTED OPERATE.
4. (U0) TO (U9) REL CORRESPONDING TO STATIONS IN SAME HUNTING GROUP.
5. LINK BUSY LAMPS ASSOCIATED WITH IDLE LINKS BEING TESTED MOMENTARILY LIGHT IN THE MAKE BUSY AND BUSY DISPLAY CIRCUIT.

DRAWING ISSUE

12B	O.L.	LME
19B	EG	WYH PD
23D	ZEN	DHC ARM
27D	EWE	SAK GFH
29B	WPA	GFH
32D	EWE	SAK RHP
33D	ROZ	PJS RHP
36B	ROZ	PJS LDJ
37B	ROZ	PJS LDJ

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LINE, LINK, AND MARKER CIRCUIT (2) — SD-65741-01-E8

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PART OF SC 7

STATION TO STATION CALL TO
BUSY STATION - BUSY TONE TRUNK IDLE -
ALL STATIONS IN HUNTING GROUP ALSO BUSY

TRK(A,AA,B,BA) 8T17, 2IE21

SE(A,AA,B,BA) 8R15, 2IA19

BTC(A,B)

TOL(A,B)

RUC(A,B)

THM09 HOLD

SMCO

SM(O)1,2 SEL

SO

UO

SMT(A,B)

SO

UE(A,B)

SO

SE(A,AA,B,BA)

HMT(AA,BA)

SMR(A,AA,B,BA)

RUC(A,B)

THM07 HOLD

UO

SO

HMT(A,B)

CROSSPOINTS 1 & 2 CLOSE

UE(A,B)

A (BUSY TONE TRK)

HMK(A,B)

DCK(A,B)

RL(A,AA,AB,B,BA,BB)

MT(A,B)

STOPS MARKER TIMING

RRL(A,B) (REG)

DC (REG)

L (REG)

RO

TEA(0-3)

TEB(0-3)

SR

SR(REG)

ON (REG)

THM (08,09) HOLD

TSD(A,B)

RAO (A,B) SEE NOTE 3

RRL (A,B) (REG)

TCK(1,2,3,4)

RPO

RPAO

SM(O)1,2 SEL

BTT(A,B)

TRC(A,AA,B,BA)

BTC(A,B)

SMCO

HMT(A,B)

SR

SMT(A,B)

HMT(AA,BA)

SR

SMR(A,AA,B,BA)

SO

HMK (A,B)

SE(A,AA,B,BA)

DCK(A,B)

RL(A,AA,AB,B,BA,BB)

SC 8

STATION TO STATION CALL TO
BUSY STATION - STATION IN HUNTING GROUP IDLE
SEE NOTE 1

PRIOR ACTION SAME AS ON SC 3

SMT(A,B)

THM11 HOLD

CROSSPOINTS 0 & 8 CLOSE

LINK 08 LAMP (MB CKT)

JCTRO TERM LAMP(MB CKT)

BY(A,B)

HC(A,B)

SEE NOTE 2

U8

S8

SE(A,AA,B,BA)

RUC(A,B)

U(7,8)

UE(A,B)

SMR (A,AA, B,BA)

SO

HMT(AA,BA)

LHM 58 HOLD

SO

HMT(A,B)

CROSSPOINTS 0 & 8 CLOSE

ASSOC BUSY LAMPS IN ATT EQUIP. (IF PROVIDED)

HMK(A,B)

TRK(A,AA,B,BA)

HMK(A,B)

SR

SMT(A,B)

SR

HMT(A,B)

HMT(AA,BA)

TRC (A,AA, B,BA)

SMR (A,AA, B,BA)

S8

SE(A,AA,B,BA)

THM09 HOLD

RCT(A,AA,B,BA)

SM(I)1,2 SEL

BY(A,B)

HC(A,B)

SUBSEQUENT ACTION SAME AS ON SC 3

SHEET NOTES:

1. SC 8 ASSUMES THAT STATION 39 COMPLETES DIALING 57 INTO REGISTER O AND THE MARKER ATTEMPTS TO COMPLETE THE CALL AS SHOWN ON SC 3 OR SC 7, BUT STATION 57 IS BUSY AND CALL IS COMPLETED TO THE IDLE STATION 58. IT IS ASSUMED THAT STATION 57 AND 58 ARE IN A TWO WAY HUNTING GROUP OF TWO STATIONS (OR A ONE WAY HUNTING GROUP OF TWO STATIONS ARRANGED TO HUNT FROM 57 TO 58)
2. WHEN (HCA) & (HCB) RELAYS OPERATE THE OPERATE PATHS FOR (BSYAA) & (BSYBA) RELAYS ARE CLOSED BUT THE PATHS ARE OPENED BY THE OPERATION OF THE (S8) RELAY AND THEREFORE THE RELAYS NEVER OPERATE.
3. THE (RAOA) & (RAOB) REL WILL OPERATE ONLY IF THE (RAIA) & (RAIB) REL ARE NOT OPERATED AT THE TIME.

DRAWING ISSUE

12B	B.L. LHE	P.O.B.
16B	JOS A.F. PDB ZEN	NY
23D	JMC MM	HO
29B	WPA	HW
	GFH EWE	
32D	SAK	
	RHF	
33D	FED PJS RHF	
	ROZ	
36B	PJS LDJ	

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LINE, LINK, AND MARKER CIRCUIT (3)

SD-65741-01-E9

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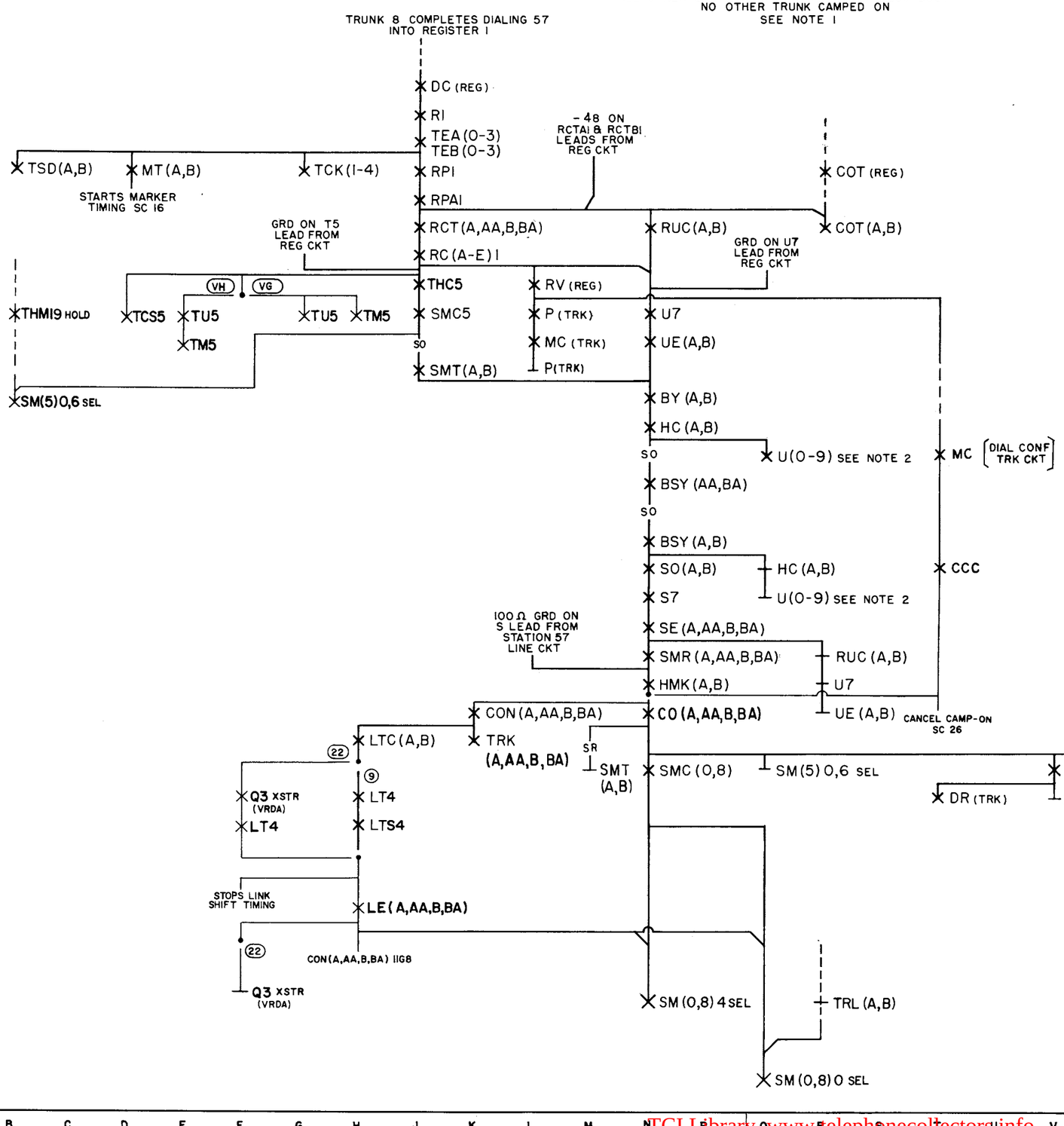
PART OF SC 9

CENTRAL OFFICE OR RINGDOWN TIE
TRUNK CALL TO BUSY STATION –
ALL OTHER STATIONS IN HUNTING GROUP ALSO BUSY –
NO OTHER TRUNK CAMPED ON
SEE NOTE 1



SHEET NOTES:

1. SC 9 ASSUMES THE FOLLOWING
   - (A) NO OTHER REGISTER, LINE, OR TRUNK IS BIDDING FOR THE MARKER.
   - (B) TRUNK 8 OBTAINED A DIAL TONE CONNECTION IN ACCORDANCE WITH SC 2 AND THEREFORE LINK 06 WAS USED FOR THAT CONNECTION.
   - (C) LINK 04 WAS USED FOR EXISTING CONNECTION TO BUSY STATION 57 AND THEREFORE IS USED FOR TRUNK CAMP ON CONNECTION.
   - (D) THE PREVIOUS MARKER OPERATION HAS LEFT THE (TRLA) AND (TRLB) RELAYS RELEASED SO THAT LINKS IN THE 02-09 GROUP ARE TESTED FIRST
   - (E) NO BLOCKAGES OR CHECK FAILURES OCCUR TO CAUSE THE MARKER TO MAKE A SECOND TRIAL OR PROGRESS TO A TROUBLE RELEASE.
2. (U0) TO (U9) RELAYS CORRESPONDING TO STATION IN SAME HUNTING GROUP.

DRAWING ISSUE
12B
19B
21B
23D
26AC
29B
33D
37B

37

LINE, LINK, AND MARKER CIRCUIT (2)
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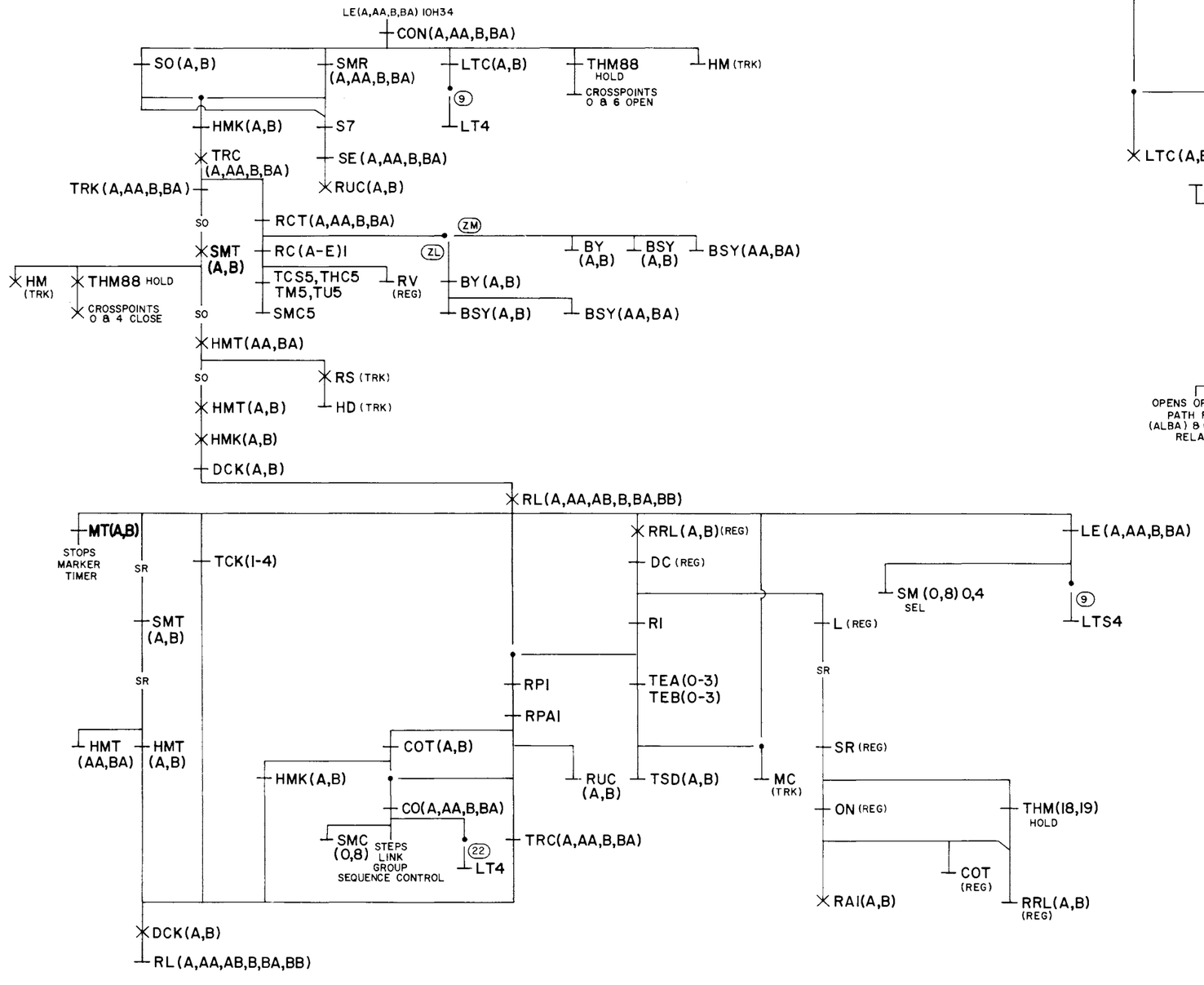
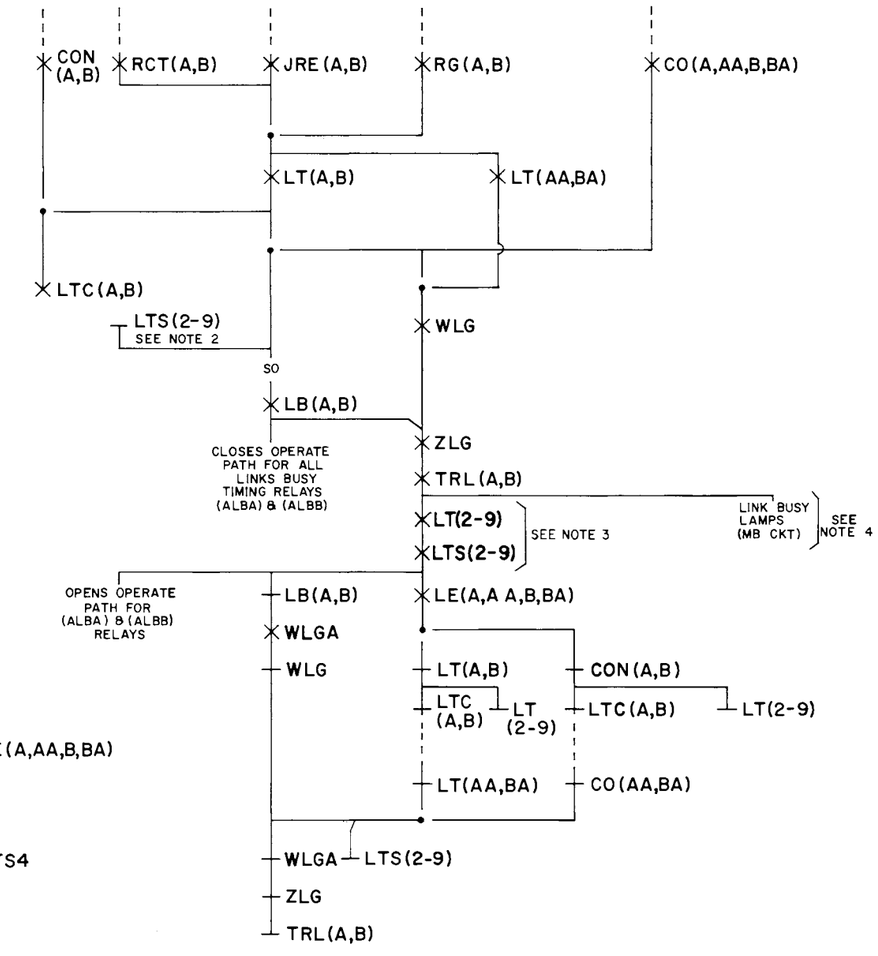
PART OF SC 9

CENTRAL OFFICE OR RINGDOWN TIE
TRUNK CALL TO BUSY STATION—
ALL OTHER STATIONS IN HUNTING GROUP ALSO BUSY—
NO OTHER TRUNK CAMPED ON



(ZN) SC 10 (MFR DISC)

LINK SHIFT TIMING
(ALL LINKS BUSY IN FIRST GROUP TESTED SEE NOTE 1)



SHEET NOTES:

1. SC 10 ASSUMES THAT THE (WLG), (ZLG), (TRLA), AND (TRLB) RELAYS ARE RELEASED AT THE START OF THE MARKER OPERATION.
2. NO (LTS2) TO (LTS9) RELAYS OPERATE SINCE ALL LINKS IN FIRST GROUP TESTED ARE BUSY.
3. (LT2) TO (LT9) AND (LTS2) TO (LTS9) RELAYS CORRESPONDING TO IDLE LINKS IN SECOND GROUP OR IF A CAMP-ON OPERATION IS INVOLVED, THE RELAYS CORRESPONDING TO THE LINK BEING USED BY THE BUSY STATION.
4. LINK BUSY LAMPS CORRESPONDING TO IDLE LINKS IN SECOND GROUP WILL MOMENTARILY LIGHT OR IF A CAMP ON OPERATION IS INVOLVED, THE LAMP CORRESPONDING TO THE LINK BEING USED BY THE BUSY STATION WILL HAVE ALREADY BEEN LIT.

DRAWING ISSUE		
12B	LMC	LHE
19B	EG	WVH PD
21B	FD	WVH PD
26AC	GP	SAK KFH
32D	EWE	SAK RHP

WORN DRAWING REPRODUCED WITHOUT CHANGE
8-3-67
FED

33D	FED	PJS	RHP

55

LINE, LINK, AND MARKER CIRCUIT (2)

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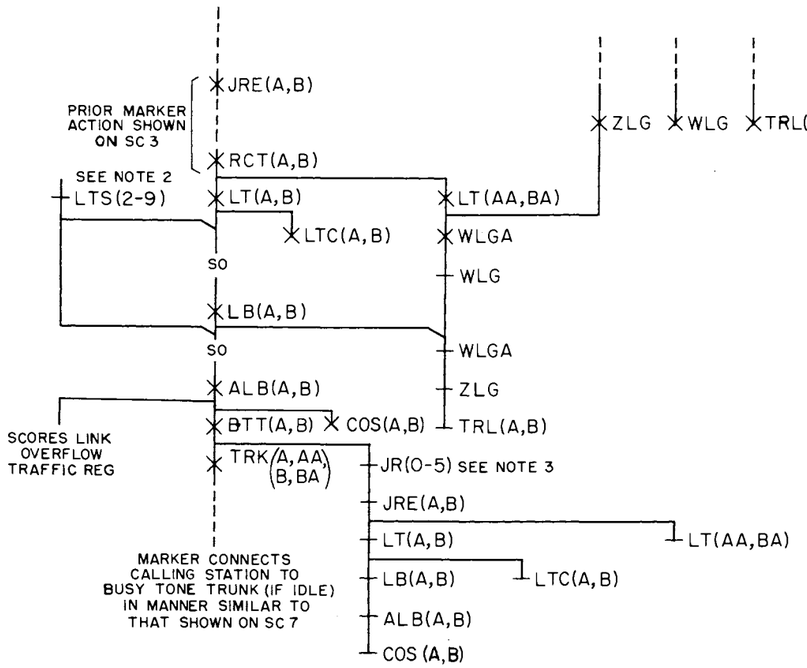
(ZN) SC 11 (MFR. DISC)

ALL LINKS BUSY - STATION TO STATION CALL TERMINATING CONDITION
SEE NOTE 1

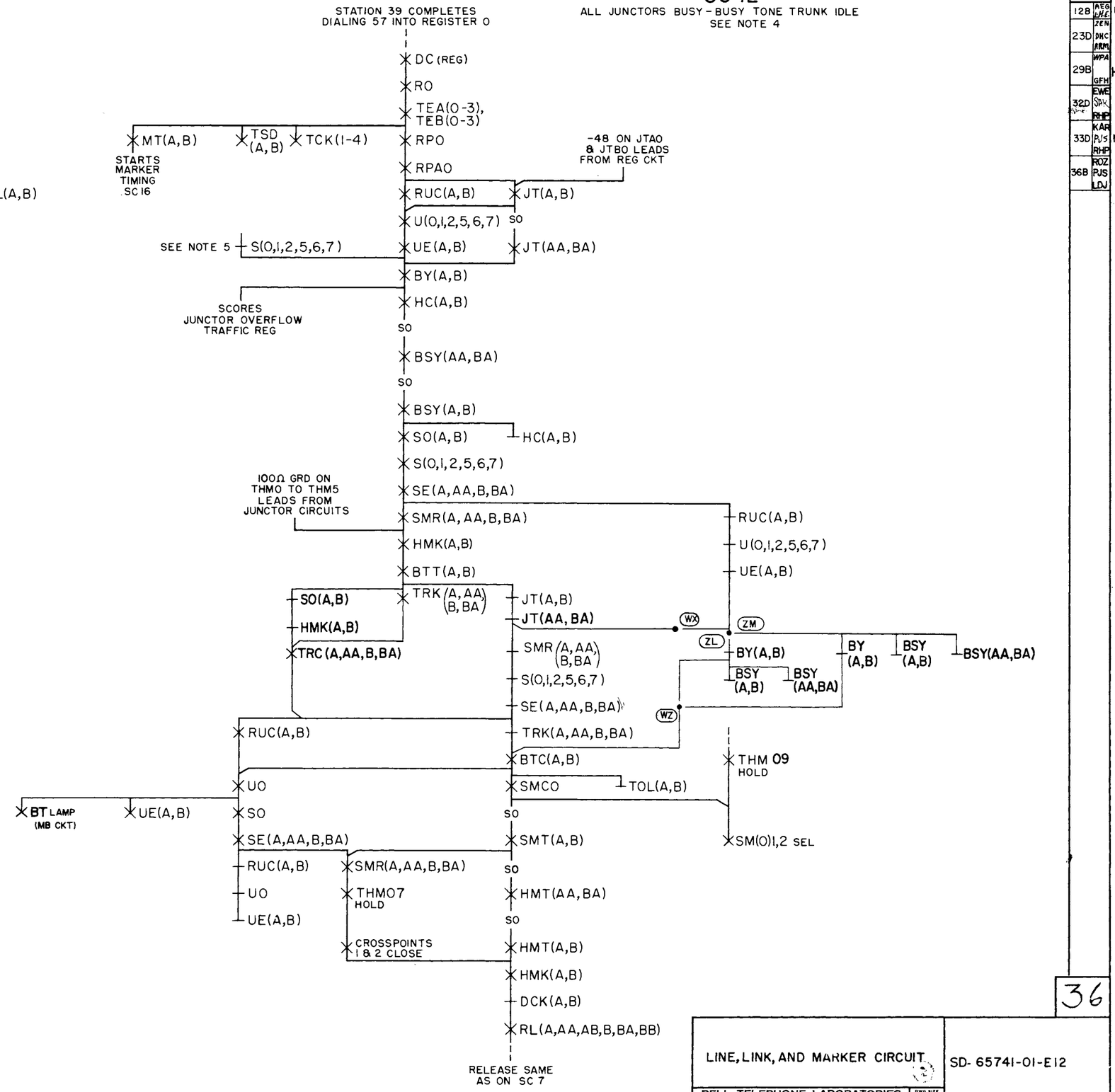


SHEET NOTES:

1. SC 11 ASSUMES THAT THE (WLG), (ZLG), (TRLA), AND (TRLB) RELAYS ARE OPERATED AT THE START OF THE MARKER OPERATION.
2. NO (LTS2) TO (LTS9) RELAYS OPERATE SINCE ALL LINKS IN BOTH GROUPS ARE BUSY.
3. (JR0) TO (JR5) RELAY CORRESPONDING TO JUNCTOR SELECTED FOR THIS CALL AT AN EARLIER STAGE OF THE MARKER OPERATION. SEE SC 3.
4. SC 12 MAKES THE SAME ASSUMPTIONS AS SC 7 EXCEPT THAT ALL JUNCTORS ARE ASSUMED TO BE BUSY.
5. SINCE ALL JUNCTORS ARE BUSY, NO (S0) TO (S2) AND (S5) TO (S7) RELAYS OPERATE.

SC 12

ALL JUNCTORS BUSY - BUSY TONE TRUNK IDLE
SEE NOTE 4



DRAWING ISSUE		
12B	AEG LHE	POB
23D	ZEN DHC ARM	
29B	WPA GFH	
32D	EWE SPK RHP	
33D	KAR PJS RHP	
36B	ROZ PJS LDJ	

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LINE, LINK, AND MARKER CIRCUIT

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SC 13
BUSY TONE TRUNK BUSY
SEE NOTE 1

PRIOR ACTION
SHOWN ON SC 7 OR SC 12

SE(A,AA,B,BA)
TRK(A,AA,B,BA)
RUC(A,B)
UO
BTC(A,B)
SO SEE NOTE 2
UE(A,B)
SMCO
TOL(A,B)
THM09 HOLD
SM(0)1,2 SEL
SO
SMT(A,B)
BY(A,B) CLOSES OPERATE PATH FOR SLOW OPERATE (HMTAA) & (HMTBA) REL

BY(REG)
DC(REG)
RO
SCORES BUSY TONE TRUNK OVERFLOW TRAFFIC REG
DCK(A,B)
RL(A,AA,AB,B,BA,BB)
HC(A,B) CLOSES OPERATE PATH FOR SLOW OPERATE (BSYAA) & (BSYBA) REL
TEA(0-3)
TEB(0-3)
MT(A,B)
STOPS MARKER TIMING
TCK(1-4)
RPO
RPAO
SM(0)1,2 SEL
BTT(A,B)
TRC(A,AA,B,BA)
BTC(A,B)
SMCO
SR
SMT(A,B)
OPENS OPERATE PATH FOR (HMTAA) & (HMTBA) REL
RUC(A,B)
UO
UE(A,B)
BY(A,B)
HC(A,B)
OPENS OPERATE PATH FOR (BSYAA) & (BSYBA) REL
DCK(A,B)
RL(A,AA,AB,B,BA,BB)

PART OF SC 14
INTERCEPTED CALL -
CALLED LINE UNASSIGNED
SEE NOTE 3

PRIOR ACTION
SHOWN ON SC 3

JRE(A,B)
JT(A,B)
JT(AA,BA)
S(1,2,6,7)
JCTR TERM LAMPS (MB CKT)
S(0,5)
SE(A,AA,B,BA)
RCT(A,AA,B,BA)
LT(A,AA,B,BA)
LTC(A,B)
RC(A-E)0
RUC (A,B)
TD5 (REG)
UD7 (REG)
STEPS LINK SEQUENCE CONTROL SC23
STEPS LINK GROUP SEQUENCE CONTROL SC24
STARTS LINK SHIFT TIMING SC10,SC21 OR SC34
LINK BUSY LAMPS (MB CKT) (SEE NOTE 6)
LT(2-9) (22)
LTS(2-9) (9)
SEE NOTE 5
TCS5
THC5
VH
VG
TU5
TM5
TM5
TU5
U7
UE (A,B)
ZL
ZIL
TRL (A,B)
LE(A,AA,B,BA)
SMC5
STOPS LINK SHIFT TIMING
LT(A,B)
LTC(A,B)
SO
SMT (A,B)
SM(1,5)0 SEL
SM(1,5)8 SEL
LT(2-9) (9)
S7 (SEE NOTE 4)
JCTRO TERM LAMP (MB CKT)
THM11 HOLD
CROSSPOINTS 0 & 8 CLOSE
LINK 08 LAMP (MB CKT)
BY(A,B)
HC(A,B)
SO
BSY(AA,BA)
SO
BSY(A,B)
SO(A,B)
HC (A,B)
S7
SE(A,AA,B,BA),14J4

SHEET NOTES:

1. SC 13 MAKES THE SAME BASIC ASSUMPTIONS MADE FOR SC 7 AND SC 12.
2. SINCE THE BUSY TONE TRUNK IS BUSY THE (SO) RELAY WILL NOT OPERATE.
3. SC 14 MAKES THE SAME BASIC ASSUMPTIONS MADE FOR SC 3 EXCEPT THAT STATION 57 IS UNASSIGNED, ATTENDANT TRUNK 0 IS IDLE, AND THAT THE CALL IS ORIGINATED BY A STATION, CODE 8, OR ATTENDANT TRUNK.
4. SINCE STATION 57 IS UNASSIGNED, THE (S7) RELAY DOES NOT OPERATE AT THIS TIME.
5. LT2 TO LT9 RELAYS (OPTION 22) OR LTS2 TO LTS9 AND LT2 TO LT9 RELAYS (OPTION 9). CORRESPONDING TO IDLE LINKS IN GROUP BEING TESTED OPERATE.
6. LINK BUSY LAMPS ASSOCIATED WITH IDLE LINKS IN GROUP BEING TESTED MOMENTARILY LIGHT IN THE MAKE BUSY AND BUSY DISPLAY CKT.

DRAWING ISSUE
12B R.J. L.NG EG
19B WWH PD
29B MPA GFH
32D SMK RHF ROZ fl/s
33D RHF ROZ PJS LDJ
36B ROZ PJS LDJ
37B

37

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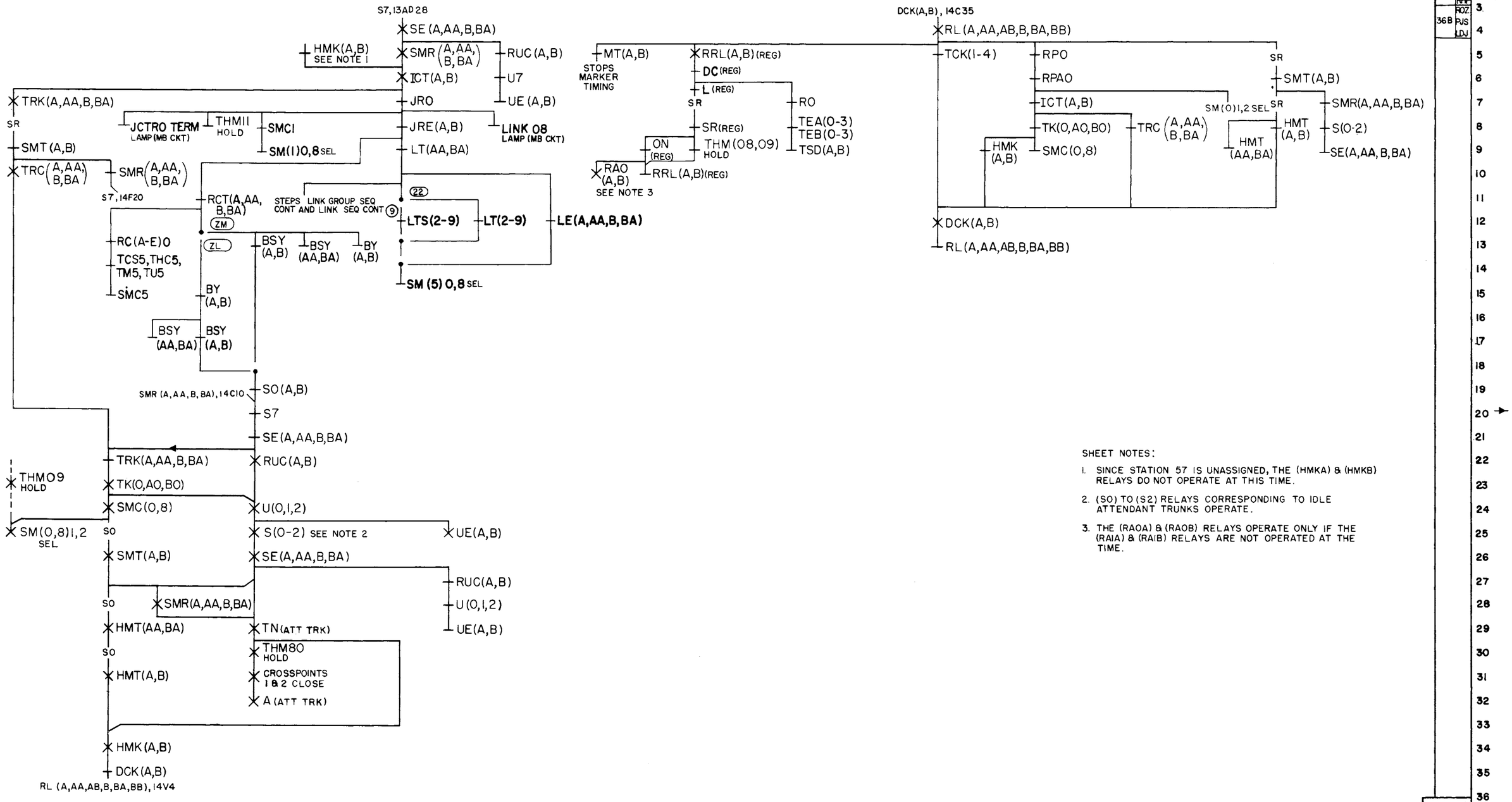
PART OF SC 14

INTERCEPTED CALL -
CALLED LINE UNASSIGNED



SHEET NOTES:

1. SINCE STATION 57 IS UNASSIGNED, THE (HMKA) & (HMKB) RELAYS DO NOT OPERATE AT THIS TIME.
2. (SO) TO (S2) RELAYS CORRESPONDING TO IDLE ATTENDANT TRUNKS OPERATE.
3. THE (RAOA) & (RAOB) RELAYS OPERATE ONLY IF THE (RAIA) & (RAIB) RELAYS ARE NOT OPERATED AT THE TIME.

DRAWING ISSUE

12B	R.J. LWE	P.O.P.
32D	EWE SPK RHP	NY HW
33D	ROZ PJS RHP	
36B	ROZ PJS LDJ	

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LINE, LINK, AND MARKER CIRCUIT (2) — SD-65741-01-E14

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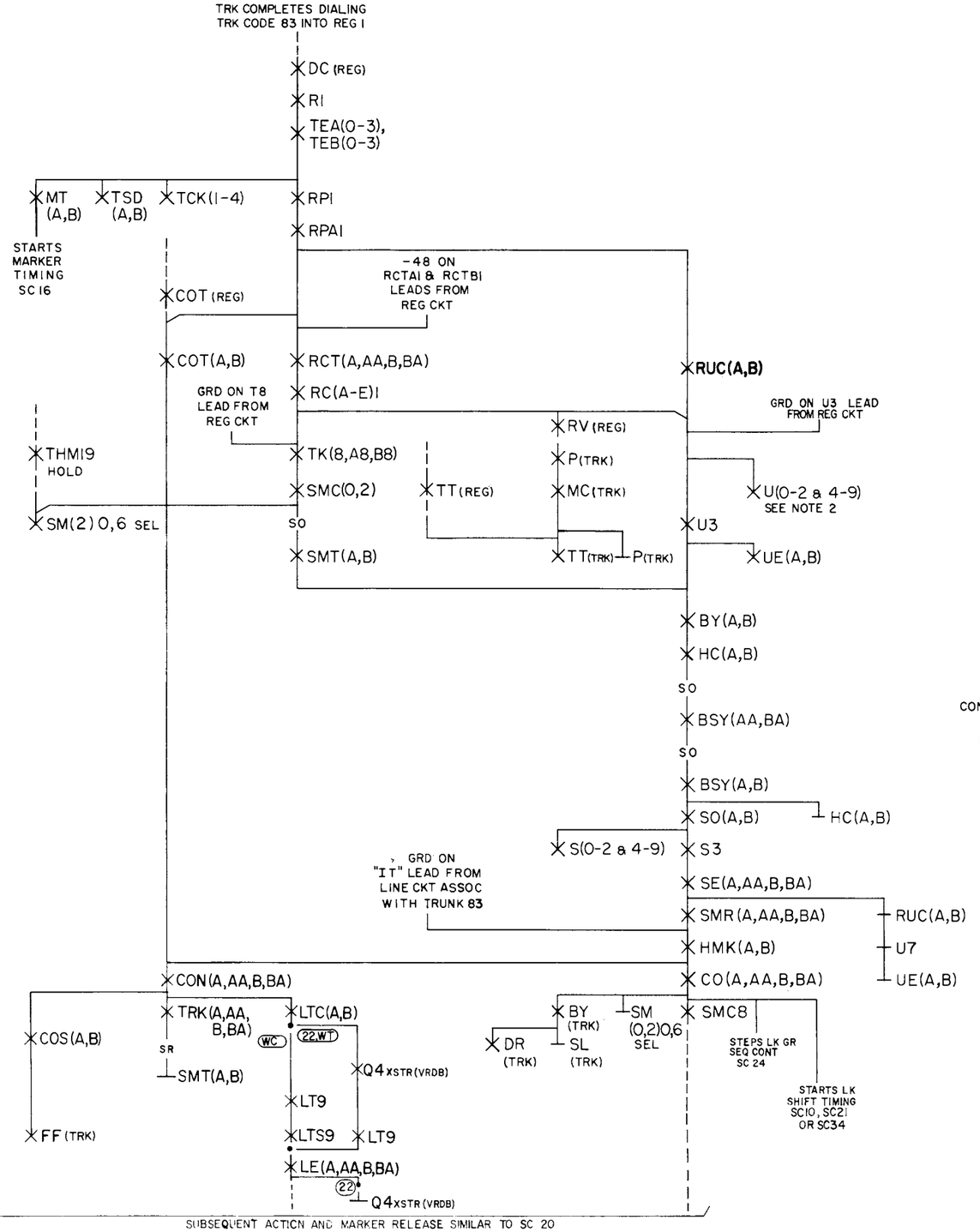
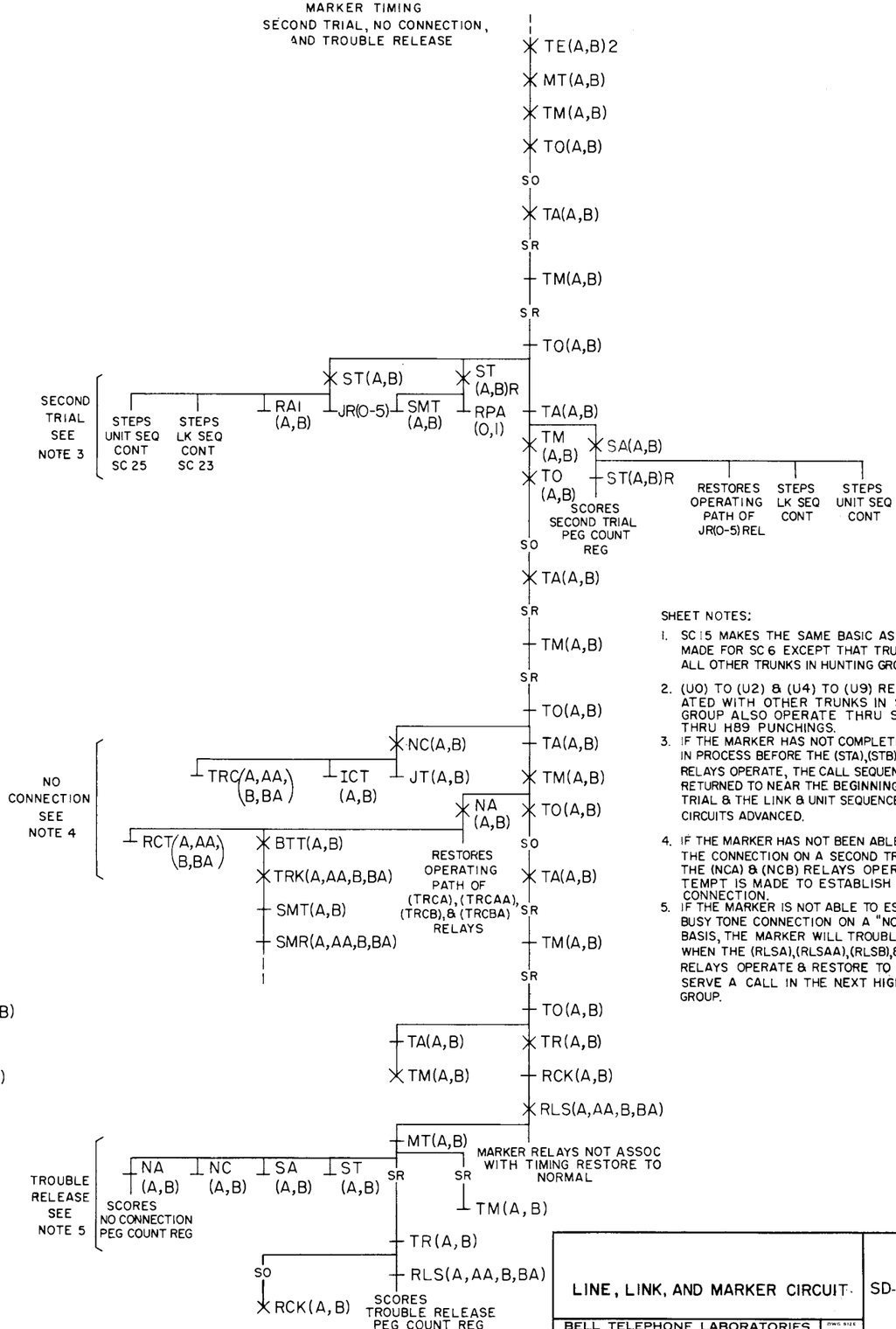
SC 15

CENTRAL OFFICE OR RINGDOWN TIE TRK
TO CODE 8 TRK CALL-ALL TRK BUSY
SEE NOTE 1



SC 16

MARKER TIMING
SECOND TRIAL, NO CONNECTION,
AND TROUBLE RELEASE



SHEET NOTES:

1. SC15 MAKES THE SAME BASIC ASSUMPTIONS MADE FOR SC6 EXCEPT THAT TRUNK 83 AND ALL OTHER TRUNKS IN HUNTING GROUP ARE BUSY.
2. (U0) TO (U2) & (U4) TO (U9) RELAYS ASSOCIATED WITH OTHER TRUNKS IN SAME HUNTING GROUP ALSO OPERATE THRU STRAPPED H80 THRU H89 PUNCHINGS.
3. IF THE MARKER HAS NOT COMPLETED THE CALL IN PROCESS BEFORE THE (STA),(STB),(STAR),&(STBR) RELAYS OPERATE, THE CALL SEQUENCE WILL BE RETURNED TO NEAR THE BEGINNING FOR A SECOND TRIAL & THE LINK & UNIT SEQUENCE CONTROL CIRCUITS ADVANCED.
4. IF THE MARKER HAS NOT BEEN ABLE TO ESTABLISH THE CONNECTION ON A SECOND TRIAL BEFORE THE (NCA) & (NCB) RELAYS OPERATE, AN ATTEMPT IS MADE TO ESTABLISH A BUSY TONE CONNECTION.
5. IF THE MARKER IS NOT ABLE TO ESTABLISH A BUSY TONE CONNECTION ON A "NO CONNECTION" BASIS, THE MARKER WILL TROUBLE RELEASE WHEN THE (RLSA),(RLSAA),(RLSB),&(RLSBA) RELAYS OPERATE & RESTORE TO NORMAL TO SERVE A CALL IN THE NEXT HIGHER TENS GROUP.

DRAWING ISSUE		
12B	PTR	LHE
	ZEN	
23D	DHC	ARM
29B	WPA	PJS
	GFH	
33D	ROZ	PJS
	RLP	
38D	ROZ	PJS
	LDJ	

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LINE, LINK, AND MARKER CIRCUIT

SD-65741-01-E15

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SC 17
ABANDONED CALL
SEE NOTE 1

STATION 39 LIFTS HANDSET

L39
T3
TEA(0-3), TEB(0-3)
TP3
MT(A,B)
TSD(A,B)
TCK(1-4)

START MARKER TIMING SC 16

STATION 39 HANGS UP
SEE NOTE 2
L39

TAC(A,AA,B,BA)
LUC(A,B)
UL(A,B)
RG(A,AA,B,BA)

STEPS UNITS SEQ CONTROL SC 25

SO
AC(A,B)
DCK(A,B)
RL(A,AA,AB,B,BA,BB)

MT(A,B)
TA3
T3

STOPS MARKER TIMING

TCK(1-4)
DCK(A,B)
RL(A,AA,AB,B,BA,BB)
TP4

TP3
TCS3,THC3, TM3,TU3
SMC3

TAC(A,AA,B,BA)
LUC(A,B)
AC(A,B)
UL(A,B)

STEPS UNIT SEQ CONTROL

RG(A,AA,B,BA)

MARKER PROCEEDS TO ESTABLISH DIAL TONE CONNECTION FOR STATION 40

STATION 40 LIFTS HANDSET

L40
T4

TCS3
THC3
TU3
TM3
(VH)
(VG)
TU3
TM3
SMC3

SHEET NOTES:

1. SC 17 ASSUMES THAT ONLY STATIONS 39 AND 40 ARE BIDDING FOR THE MARKER AND STATION 39 ABANDONS THE CALL BEFORE THE (U9) RELAY OPERATES.
2. SINCE STATION 39 HUNG UP AND THE (L39) RELAY RELEASED, THE (U9) RELAY DOES NOT OPERATE. WITH THE (U9) RELAY RELEASED THE (UEA) AND (UEB) RELAYS DO NOT OPERATE AND THEREFORE THE (LUCA) AND (LUCB) RELAYS DO NOT RELEASE THUS ALLOWING THE (ACA) AND (ACB) RELAYS TO OPERATE.
3. (TOLA) AND (TOLB) RELAYS RELEASED WHEN (BTCA) AND (BTCB) RELAYS OPERATED DURING SOME PREVIOUS MARKER OPERATION. TIME OUT CHECK IS STARTED WHEN (TEA2),(TEBO), AND (TEB2) RELAYS RELEASE.
4. (TOLA) AND (TOLB) RELAYS REMAIN OPERATED UNTIL (BTCA) AND (BTCB) RELAYS REOPERATE ON SOME SUBSEQUENT MARKER OPERATION.

SC 18
TIME OUT CHECK

BTC(A,B)
TE(A2,BO,B2)
SEE NOTE 3
TOL(A,B)

DCK(A,B)
TOK(A,B)
RL(A,B)

SEE NOTE 4
TOL(A,B)

SCORES TIME OUT PEG COUNT REG

MT(A,B)
TM(A,B)
TO(A,B)

SO
TA(A,B)

SR
TM(A,B)

SR
TO(A,B)
TA(A,B)
ST(A,B)
ST(A,B)R
TM(A,B)
SA(A,B)
TO(A,B)
ST(A,B)R

SO
TA(A,B)

SCORES SECOND TRIAL PEG COUNT REG

SR
TM(A,B)

SR
TO(A,B)
TA(A,B)
NC(A,B)
TM(A,B)
TO(A,B)
NA(A,B)

SO
TA(A,B)

SR
TM(A,B)

SR
TO(A,B)
TR(A,B)
TA(A,B)
RCK(A,B)
TM(A,B)
RLS(A,AA,B,BA)
MT(A,B)

SR
TR(A,B)
TOK(A,B)

TM (A,B)
NA (A,B)
NC (A,B)
SA (A,B)
ST(A,B)

SCORES NO CONNECTION PEG COUNT REG

RLS (A,AA,B,BA)
SO
RCK(A,B)

SCORES TROUBLE RELEASE PEG COUNT REG

DRAWING ISSUE
12B AEG WE
37B FOZ RJS LDJ HW
POB

37

LINE, LINK, AND MARKER CIRCUIT (2)
SD-65741-01-E16
BELL TELEPHONE LABORATORIES INCORPORATED
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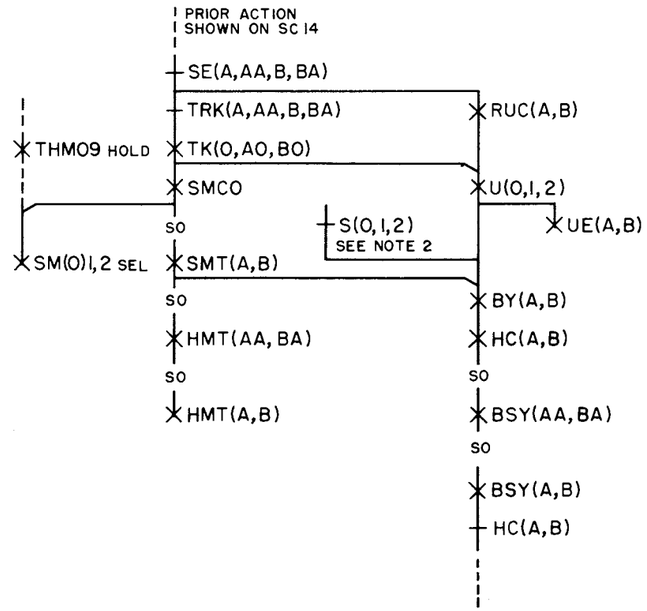
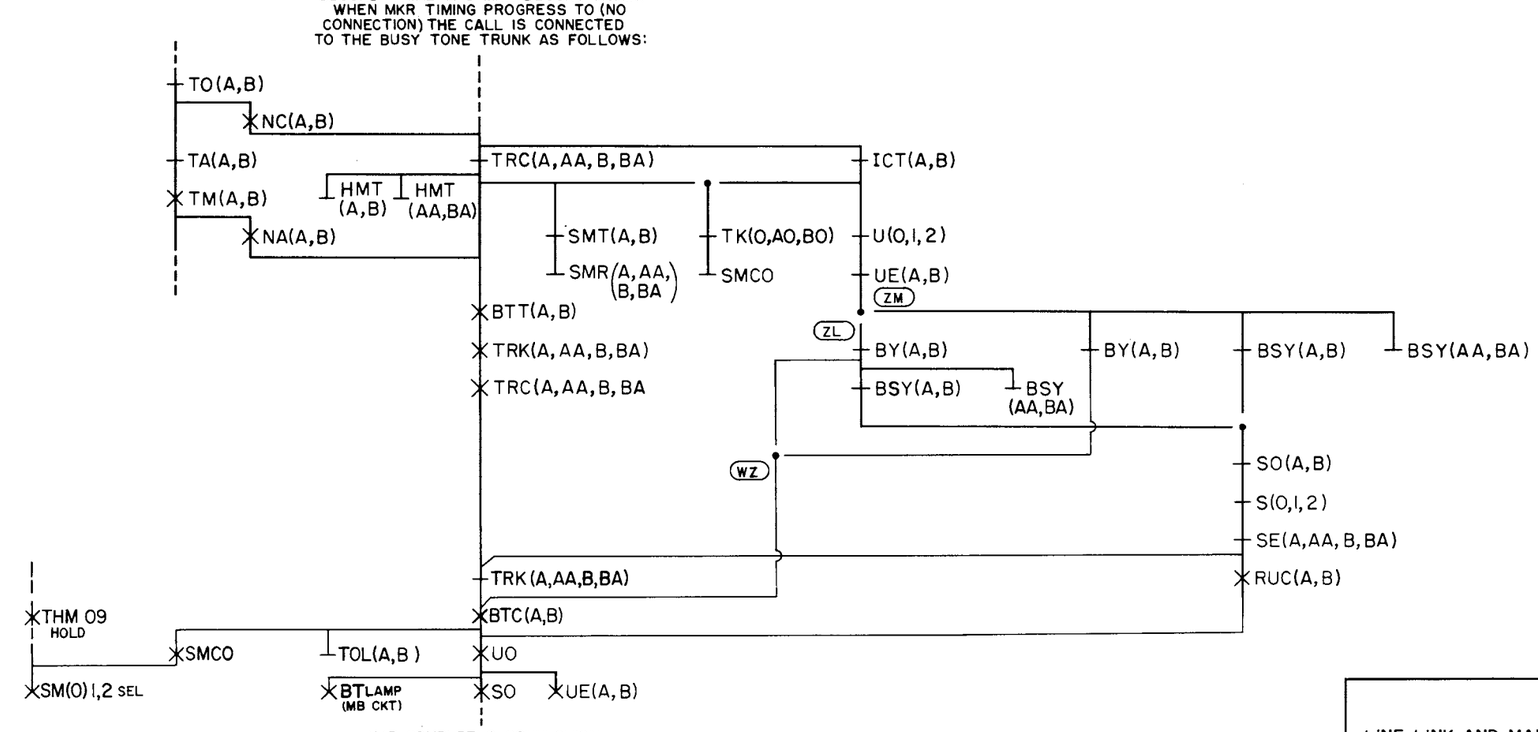
SC 19

CALLED LINE UNASSIGNED-
ALL ATTENDANT TRUNKS BUSY
SEE NOTE 1



ACTION STOPS UNTIL MKR TIMING SC 16 PROGRESSES TO SECOND TRIAL. ABOVE ACTION IS REPEATED ON SECOND TRIAL AND MKR BLOCKS AGAIN. WHEN MKR TIMING PROGRESS TO (NO CONNECTION) THE CALL IS CONNECTED TO THE BUSY TONE TRUNK AS FOLLOWS:



MKR COMPLETES CONNECTION TO BUSY TONE TRUNK AND RELEASES IN MANNER SIMILAR TO THAT SHOWN ON SC 7

SHEET NOTES:

1. SC 19 MAKES THE SAME BASIC ASSUMPTIONS MADE FOR SC 14 EXCEPT THAT ALL ATTENDANT TRUNKS ARE BUSY. IT IS ALSO ASSUMED THAT BUSY TONE TRUNK IS IDLE.
2. (SO), (S1), AND (S2) RELAYS DO NOT OPERATE SINCE ALL ATTENDANT TRUNKS ARE BUSY.

DRAWING ISSUE

128	AEG LJE ZEN	POB NY
23D	DHC ARM	
29B	WPA GFM	
32D	EWG SHK	HW
36B	RHF ROZ PJS LDJ	

36

LINE, LINK, AND MARKER CIRCUIT (2)

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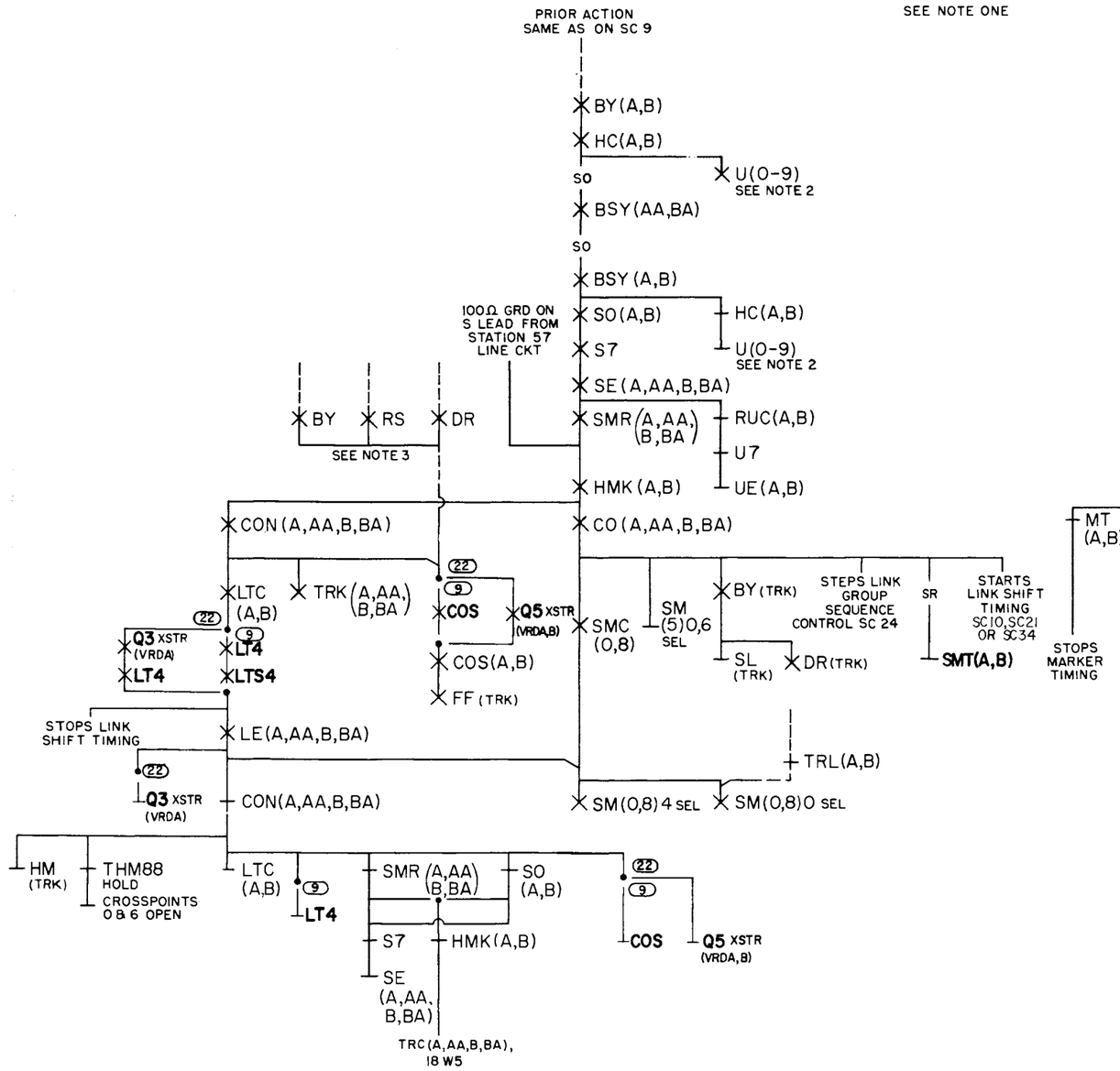
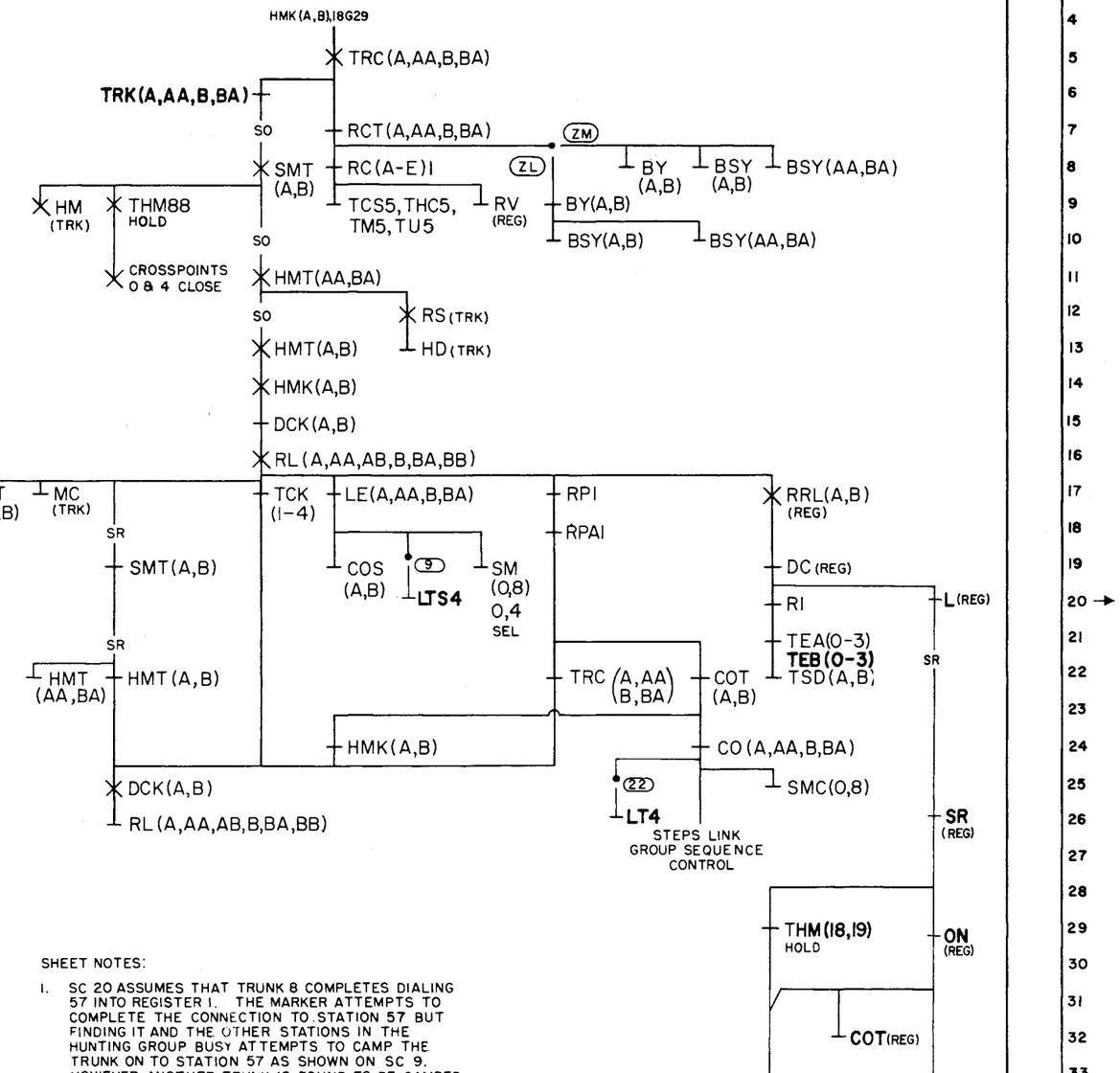
SC 20

CENTRAL OFFICE OR RINGDOWN TIE TRUNK
CALL TO BUSY STATION — ALL OTHER
STATIONS IN HUNTING GROUP ALSO BUSY—
ANOTHER TRUNK IS CAMPED ON
SEE NOTE ONE





SHEET NOTES:

1. SC 20 ASSUMES THAT TRUNK 8 COMPLETES DIALING 57 INTO REGISTER 1. THE MARKER ATTEMPTS TO COMPLETE THE CONNECTION TO STATION 57 BUT FINDING IT AND THE OTHER STATIONS IN THE HUNTING GROUP BUSY ATTEMPTS TO CAMP THE TRUNK ON TO STATION 57 AS SHOWN ON SC 9. HOWEVER ANOTHER TRUNK IS FOUND TO BE CAMPED ON. LINK 06 IS ASSUMED TO HAVE BEEN USED FOR THE DIAL TONE CONNECTION AND LINK 04 FOR THE BUSY CONNECTION TO STATION 57. IT IS ALSO ASSUMED THAT THE MARKER TESTS LINK GROUP 02-09 FIRST AND THAT NO CHECK FAILURES OR BLOCKAGES OCCUR TO CAUSE A SECOND TRIAL OR A TROUBLE RELEASE.
2. (U0) TO (U9) RELAYS CORRESPONDING TO STATIONS IN SAME HUNTING GROUP.
3. THE COS RELAY (OPTION 9) OR THE Q5 TRANSISTOR (OPTION 22) IS OPERATED FROM GROUND PLACED BY THE MARKER ON THE SLEEVE OF STATION 57 THRU THE OPERATED (BY),(RS), AND (DR) RELAYS OF THE CAMPED ON TRUNK.

DRAWING ISSUE
12B
330

POB
HW
HO

43

LINE, LINK, AND MARKER CIRCUIT (2)

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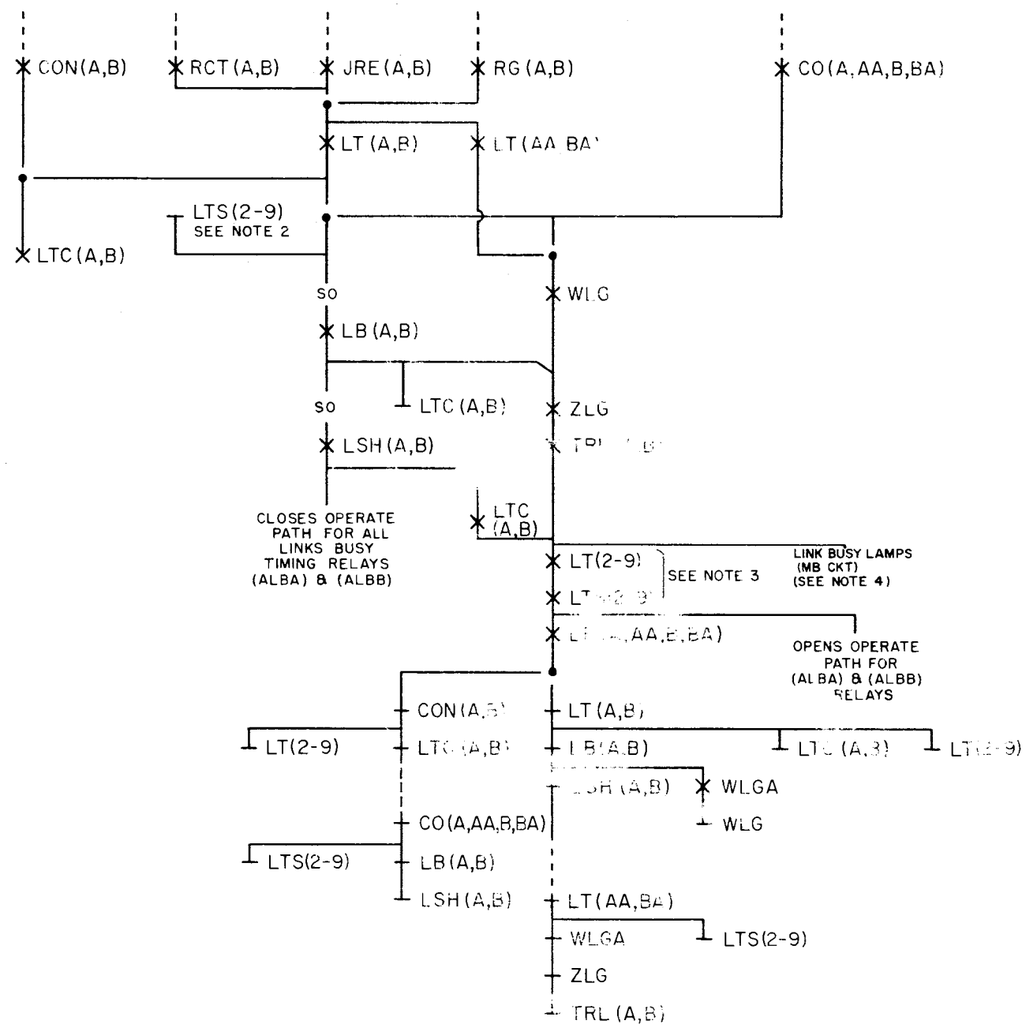
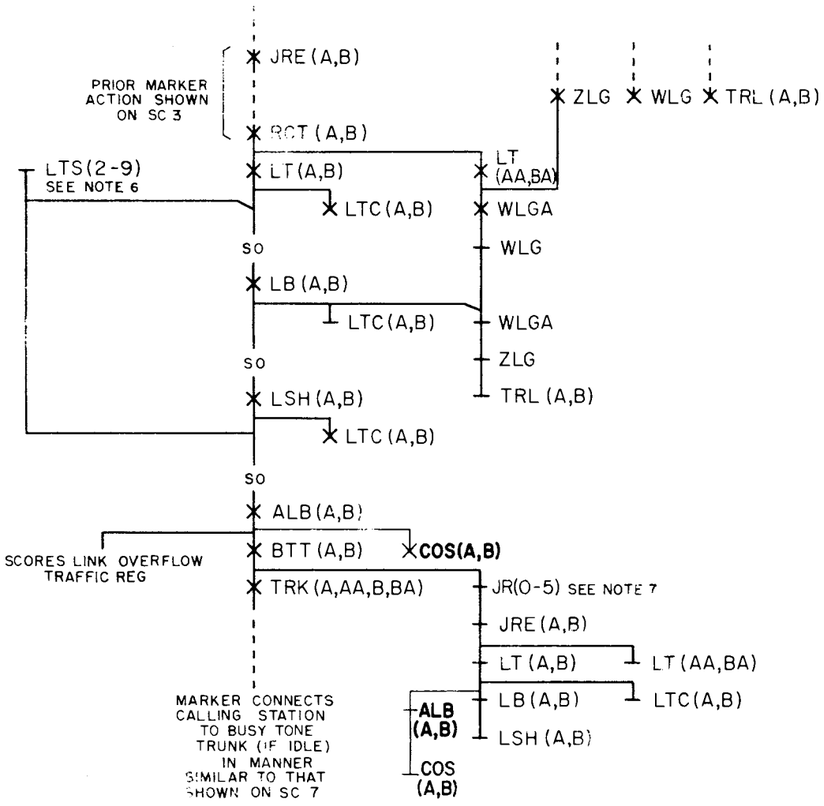
(ZO) SC 21 (MFR DISC)

LINK SHIFT TIMING
(ALL LINKS BUSY IN FIRST GROUP TESTED)
SEE NOTE 1



(ZO) SC 22 (MFR DISC)

[illegible] BUSY
STATION [illegible] ATION
CALL TERMINATING CONDITION
SEE NOTE 5



SHEET NOTES:

1. SC 21 ASSUMES THAT THE (WLG),(ZLG),(TRLA), AND (TRLB) RELAYS ARE RELEASED AT THE START OF THE MARKER OPERATION.
2. NO (LTS2) TO (LTS9) RELAYS OPERATE SINCE ALL LINKS IN FIRST GROUP TESTED ARE BUSY OR IN THE CAMP ON OPERATION, THE LINK BEING USED BY THE BUSY STATION IS NOT IN FIRST GROUP.
3. (LT2) TO (LT9) AND (LTS2) TO (LTS9) RELAYS CORRESPONDING TO IDLE LINKS IN SECOND GROUP OR IF A CAMP ON OPERATION IS INVOLVED, THE RELAY CORRESPONDING TO THE LINK BEING USED BY THE BUSY STATION.
4. LINK BUSY LAMPS CORRESPONDING TO IDLE LINKS IN SECOND GROUP WILL MOMENTARILY LIGHT OR IF A CAMP-ON OPERATION IS INVOLVED, THE LAMP CORRESPONDING TO THE LINK BEING USED BY THE BUSY STATION WILL HAVE ALREADY BEEN LIT.
5. SC 22 ASSUMES THAT THE (WLG),(ZLG),(TRLA), AND (TRLB) RELAYS ARE OPERATED AT THE START OF THE MARKER OPERATION.
6. NO (LTS2) TO (LTS9) RELAYS OPERATE SINCE ALL LINKS IN BOTH GROUPS ARE BUSY.
7. (JR0) TO (JR5) RELAYS CORRESPONDING TO JUNCTOR SELECTED FOR THIS CALL AT AN EARLIER STAGE OF THE MARKER OPERATION. SEE SC 3.

DRAWING ISSUE

12B	LMC LHE	FOR
32D	EWE RHP	HW
33D	RWZ WDS RHP	

32

LINE, LINK, AND MARKER CIRCUIT (2)

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SD-65741-01-E19

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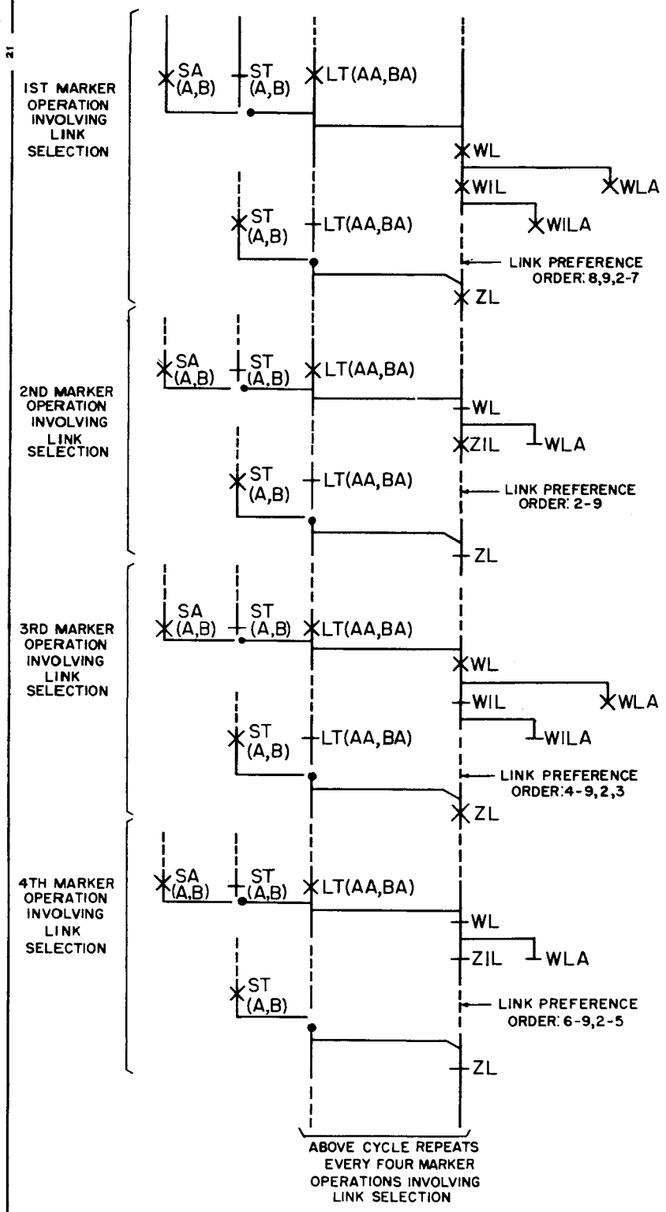
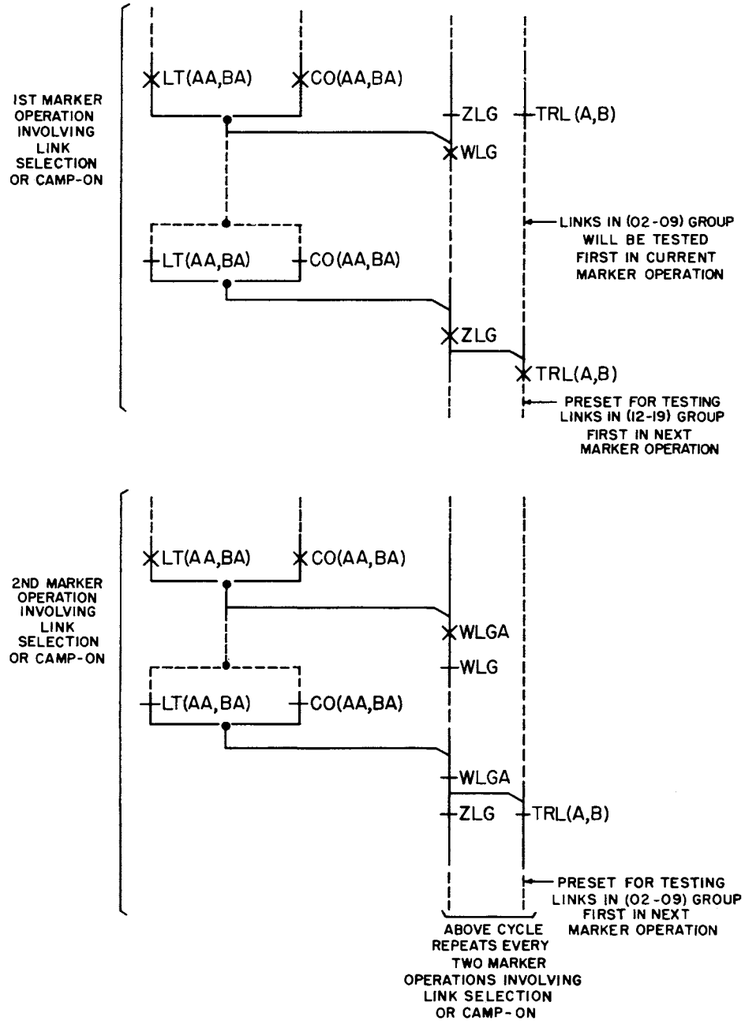
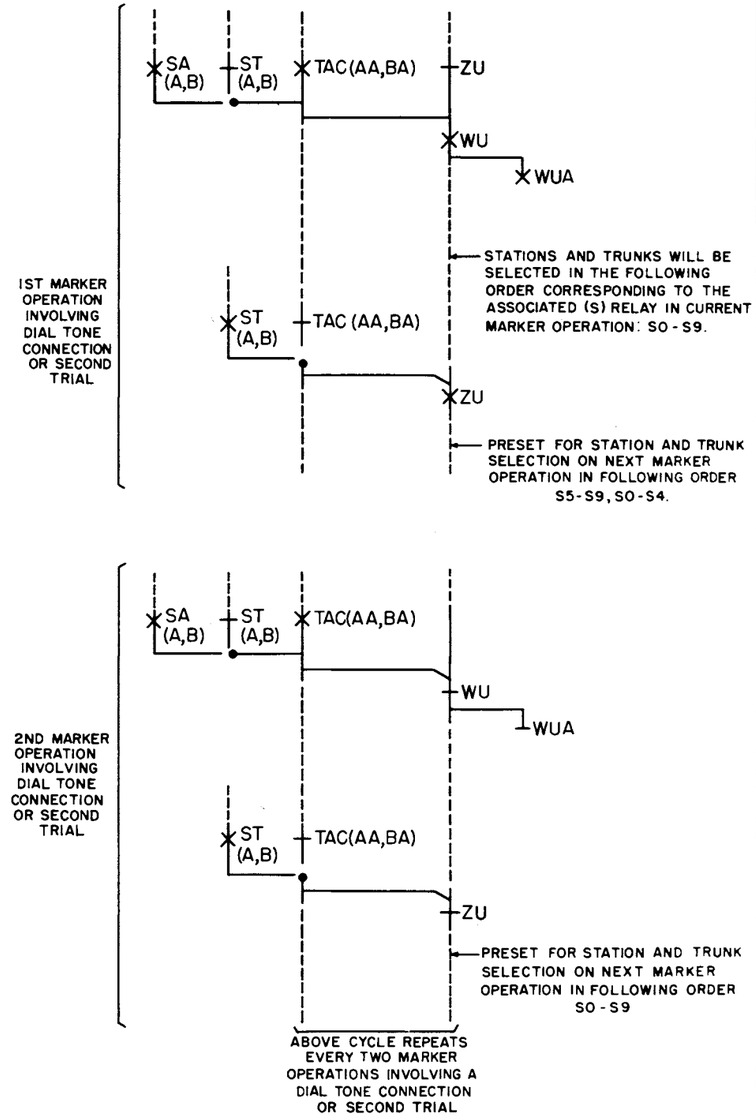
SC 23
LINK SEQUENCE CONTROL



SC 24
LINK GROUP SEQUENCE CONTROL
SEE NOTE 1



SC 25
UNITS SEQUENCE CONTROL



SHEET NOTES:
1. SC 24 ASSUMES THAT ON EACH MARKER OPERATION AN IDLE LINK OR THE CAMP-ON LINK IS FOUND IN FIRST GROUP TESTED.

DRAWING ISSUE 12B RJ

NO. 756A LINE, LINK, AND MARKER CIRCUIT	SD-65741-01-E20
BELL TELEPHONE LABORATORIES INCORPORATED	SIZE 6S

SD-65741-01-E20

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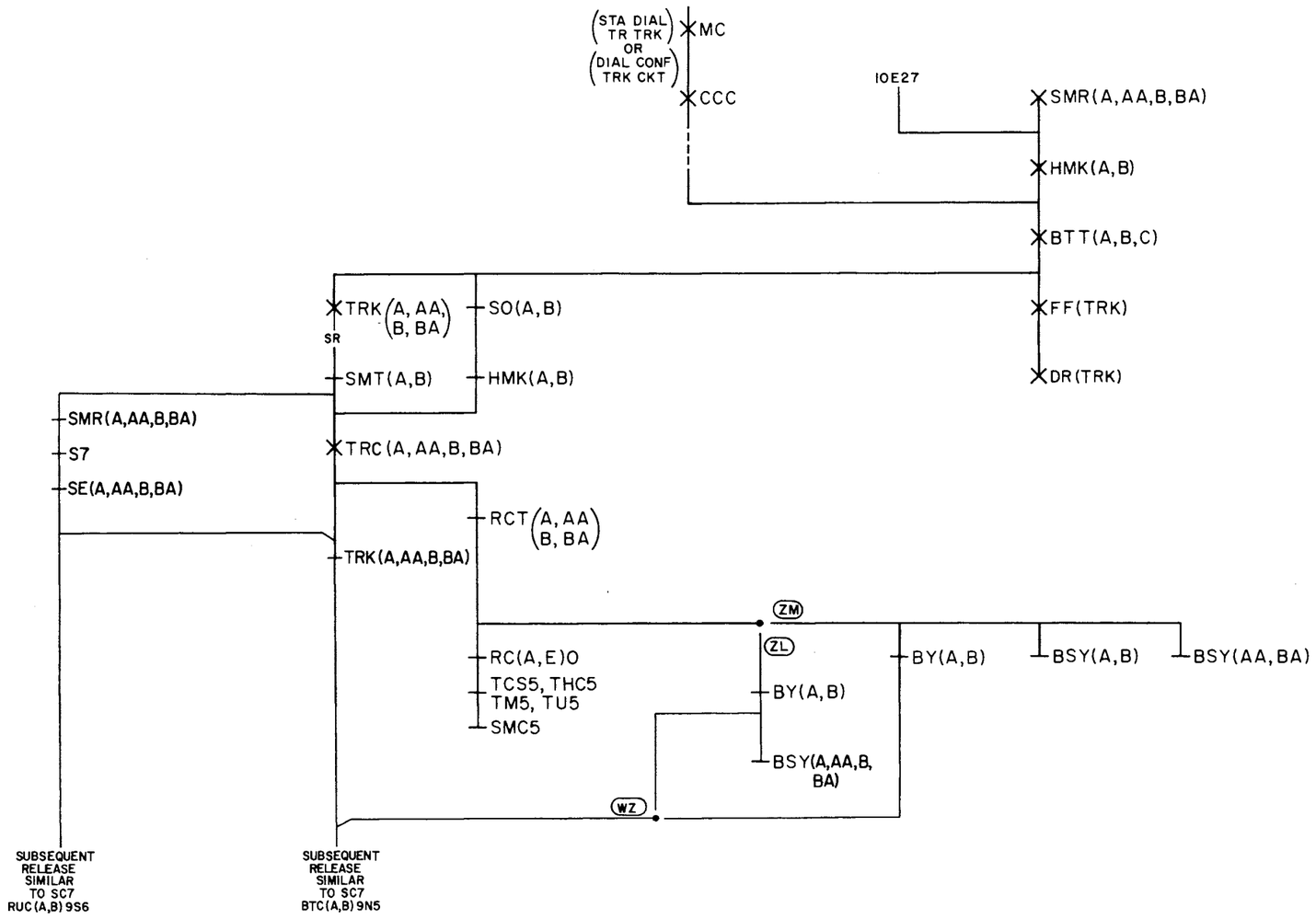
SC 26

CANCEL CAMP-ON
SEE NOTE 1



SHEET NOTES:

1. SC 26 ASSUMES THE FOLLOWING:
   (A) NO OTHER REGISTER, LINE, OR TRUNK IS BIDDING FOR THE MARKER.
   (B) TRUNK OBTAINED A DIAL TONE CONNECTION IN ACCORDANCE WITH SC 2 AND THEREFORE LINK 06 WAS USED FOR THAT CONNECTION.
   (C) THE PREVIOUS MARKER OPERATION HAS LEFT (TRLA) AND (TRLB) RELAYS RELEASED SO THAT LINKS IN THE 02-09 GROUP ARE TESTED FIRST.
   (E) NO BLOCKAGES OR CHECK FAILURES OCCUR TO CAUSE THE MARKER TO MAKE A SECOND TRIAL OR PROGRESS TO A TROUBLE RELEASE.

DRAWING ISSUE

23D	ZEN	
	DHC	
	ARM	
36B	ROZ	
	PJS	
	LDJ	

36

LINE, LINK, AND MARKER CIRCUIT

SD-65741-01-E21

BELL TELEPHONE LABORATORIES INCORPORATED

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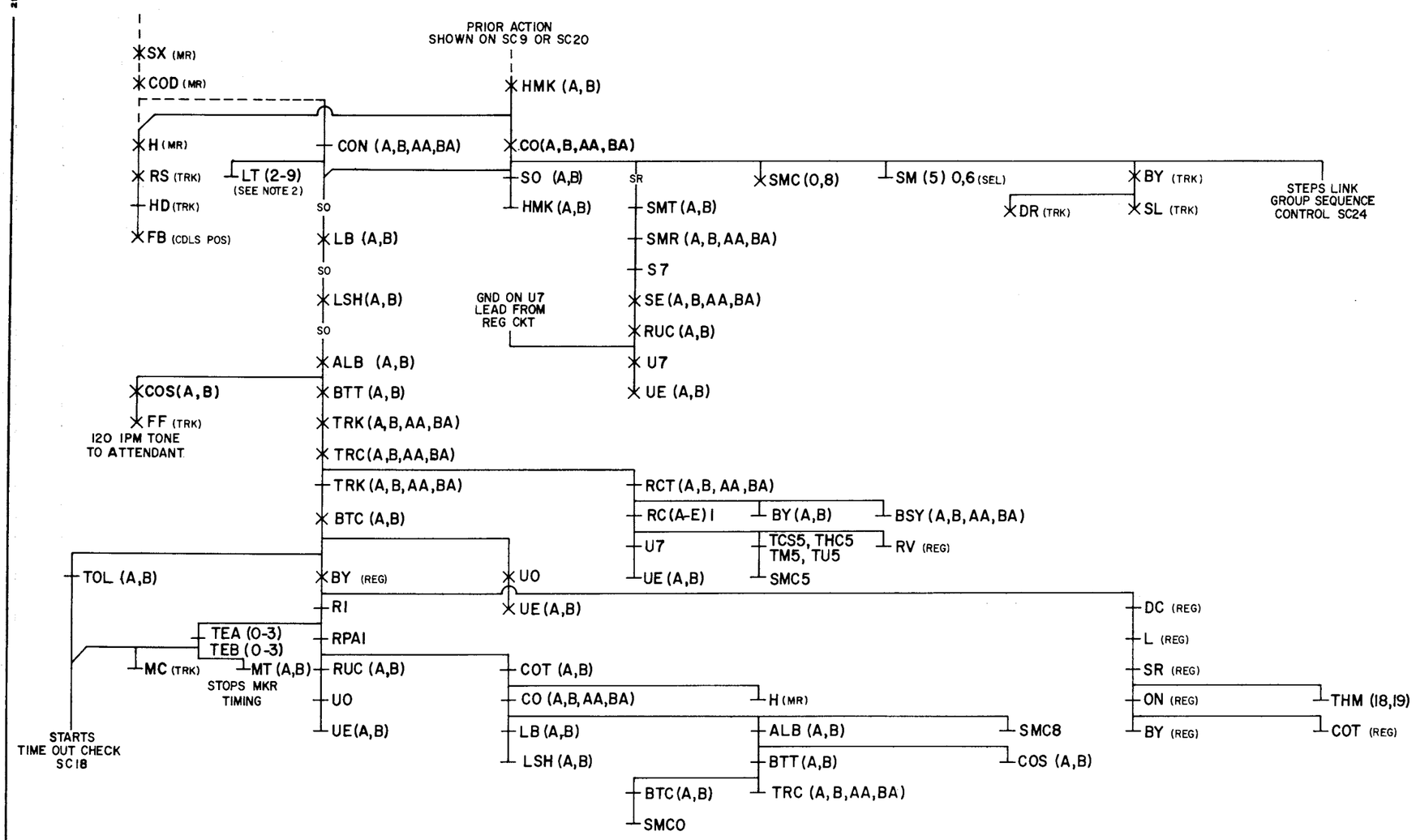
(XK) SC 27 (MFR DISC)

CENTRAL OFFICE OR RINGDOWN TIE TRUNK CALL TO BUSY STATION
MESSAGE REGISTRATION PULSE ON SLEEVE OF ANY LINK
(SEE NOTE 1)



SHEET NOTES:

1. SC27 ASSUMES THE FOLLOWING:
   (A) NO OTHER REGISTER, LINE OR TRUNK IS BIDDING FOR THE MARKER.
   (B) TRUNK 8 OBTAINED A DIAL TONE CONNECTION IN ACCORDANCE WITH SC2 AND THEREFORE LINK 06 WAS USED FOR THAT CONNECTION.
   (C) LINK 04 WAS USED FOR EXISTING CONNECTION TO BUSY STATION 57.
   (D) THE PREVIOUS MARKER OPERATION HAS LEFT THE (TRLA) AND (TRLB) RELAYS RELEASED SO THAT LINKS IN THE 02-09 GROUP ARE TESTED FIRST.
   (E) NO BLOCKAGES OR CHECK FAILURES OCCUR TO CAUSE THE MARKER TO MAKE A SECOND TRIAL OR PROGRESS TO A TROUBLE RELEASE.
   (F) THE MESSAGE REGISTRATION PULSE IS PRESENT PRIOR TO LINK TESTING AND SELECTION PREVENTING THE OPERATION OF THE CON (A,B,AA,BA) RELAYS.
2. WITH CON (A,B,AA,BA) NORMAL, NO LT (2-9) RELAYS WILL OPERATE.

DRAWING ISSUE

24D	RWP SAK KFJ
33D	FED PJS RHP
35D	FED PJS RHP

HW

35

LINE, LINK AND MARKER CIRCUIT (2) — SD-65741-01-E22

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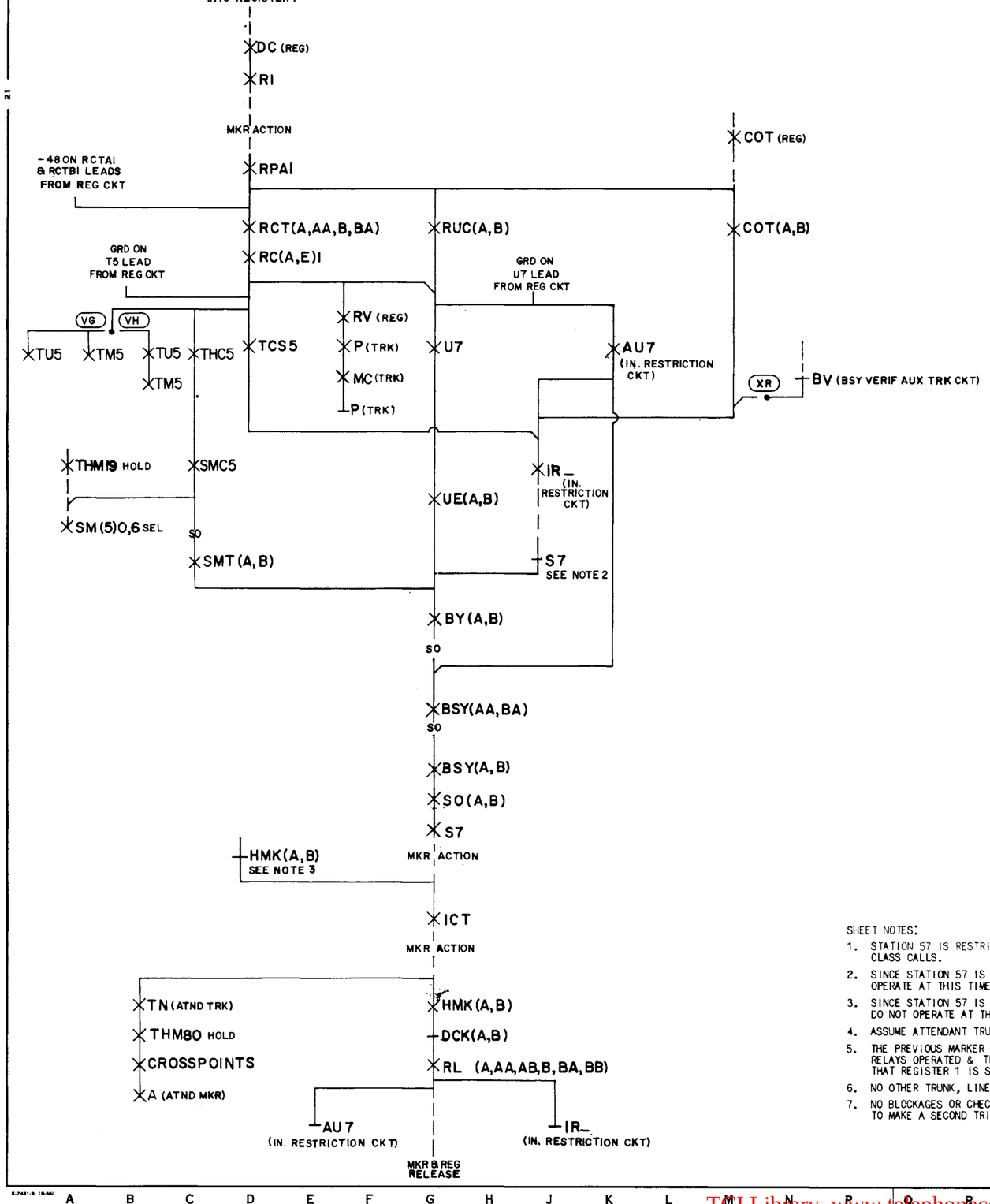
SC 28

CENTRAL OFFICE TO
INWARD RESTRICTED STATION



SHEET NOTES:

1. STATION 57 IS RESTRICTED FROM RECEIVING CENTRAL OFFICE CLASS CALLS.
2. SINCE STATION 57 IS RESTRICTED, THE (S7) RELAY DOES NOT OPERATE AT THIS TIME.
3. SINCE STATION 57 IS RESTRICTED, THE (HMKA) & (HMKB) RELAYS DO NOT OPERATE AT THIS TIME.
4. ASSUME ATTENDANT TRUNK 0 IS IDLE.
5. THE PREVIOUS MARKER OPERATION HAS LEFT THE (RAIA) & (RAIB) RELAYS OPERATED & THE (RAOA) & (RAOB) RELAYS RELEASED SO THAT REGISTER 1 IS SELECTED ON THIS CALL.
6. NO OTHER TRUNK, LINE, OR REGISTER IS BIDDING FOR THE MARKER.
7. NO BLOCKAGES OR CHECK FAILURES OCCUR TO CAUSE THE MARKER TO MAKE A SECOND TRIAL OR PROGRESS TO A TROUBLE RELEASE.

DRAWING ISSUE

25D	FSTP SAK	KFJ
29B	WPA	GFH
WORN DRAWING REPRODUCED WITHOUT CHANGE 8-3-66 J J R		
37B	ROZ PJS	LDJ

HW PJS

37

LINE, LINK, AND MARKER CIRCUIT (2) — SD-65741-01-E 23

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SD-65741-01-E2

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SC 29

STATION TO CODE 8 TIE TRUNK CONNECTION
SEE NOTE 1

SHEET NOTES:

1. SC29 ASSUMES THE FOLLOWING:
   - (A) NO OTHER REGISTER, LINE, OR TRUNK IS BIDDING FOR THE MARKER.
   - (B) THE PREVIOUS MARKER OPERATION HAS LEFT THE UNITS SEQUENCE CONTROL IN CONDITION SO THAT THE (ZU) RELAY IS OPERATED DURING THIS MARKER OPERATION.
   - (C) TIE TRUNK 83 IS IDLE AND NOT IN A HUNTING GROUP.
   - (D) LINK 12 WAS USED FOR THE STATION 39 TO REGISTER O DAIL TONE CONNECTION.
   - (E) NO BLOCKAGES OR CHECK FAILURES OCCUR TO CAUSE THE MARKER TO MAKE A SECOND TRIAL OR PROGRESS TO A TROUBLE RELEASE.
2. THE (RAOA) & (RAOB) RELAYS OPERATOR ONLY IF THE (RAIA) & (RAIB) RELAYS ARE NOT OPERATED AT THE TIME.
3. RELAY B ON TIE TRUNK PER SD-65718-01 OR EQUIVALENT RELAY ON SIMILAR TIE TRUNKS.

STATION 39 COMPLETES DIALING 83 INTO REGISTER O

-48 ON RCTAO & RCTBO LEADS FROM REG CKT

MT(A,B) STARTS MARKER TIMING SC16

TSD(A,B)

TCK(1-4)

DC(REG)

RO

TEA(0-3), TEB(0-3)

RPO

RPAO

RCT(A,AA,B,BA)

RUC(A,B)

GRD ON T8 LEAD FROM REG CKT

RC(A-E)O

GRD ON U3 LEADS FROM REG CKT

TK(8,A8,B8)

THM09 HOLD

SMC(0,2)

U3

UE(A,B)

LINE 83 LAMP (MB CKT)

S3

SO

SM(0,2)1,2 SEL

SMT(A,B)

SE(A,AA,B,BA)

SM(A,AA,B,BA)

OT 23

LHM 23

CROSS POINTS 1&2 CLOSE

ASSOC. BUSY LAMP IN ATT. EQUIP (IF PROVIDED)

SO

A

MS

(IF PROVIDED)

RUC(A,B)

U3

UE(A,B)

HMT(AA,BA)

SO

HMT(A,B)

B(TIE TRK) SEE NOTE 3

GRD ON LEAD S2

SL 23

HMK(A,B)

DCK(A,B)

RL(A,AA,AB,B,BA,BB)

RLO

A

(IF PROVIDED)

MT(A,B) STOPS MARKER TIMING

RRL(A,B)(REG)

DC(REG)

L(REG)

SR

SR(REG)

ON(REG)

THM(08,09) HOLD

RAO(A,B) SEE NOTE 2

RRL (A,B) (REG)

RO

TEA(0-3)

TEB(0-3)

TSD(A,B)

TCK(1-4)

RPO

RPAO

RCT(A,AA,B,BA)

RC(A-E)O

TK(8,A8,B8)

SMC(0,2)

HMK(A,B)

SM(0,2)1,2 SEL

HMT(AA,BA)

SR

SMT(A,B)

HMT(A,B)

SMR(A,AA,B,BA)

S3

SE(A,AA,B,BA)

DCK(A,B)

RLO (IF PROVIDED)

RL(A,AA,AB,B,BA,BB)

DRAWING ISSUE

30D	MB PJS	H
	GFTS EME	
32D	VAL RHP	
33D	ROZ PJS	
	RHP	

33

LINE, LINK, AND MARKER CIRCUIT (2)

SD-65741-01-E24

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SC 30

CODE 8 TIE TRUNK DIAL TONE CONNECTION
SEE NOTE 1.

TIE TRUNK 89 SEIZED BY DISTANT PBX

GRD. ON LEAD S2

L29

T2

TEA(0-3)
TEB(0-3)

TP2

MT (A,B)
TSD (A,B)
TCK(1-4)

STARTS MARKER TIMING SC16

TAC(A,AA,B,BA)

LUC(A,B)
UL(A,B)

RG(A,AA,B,BA)

STARTS ABANDON CALL TIMING SC17

U9

TM2 N9, P11

S9

UE(A,B)

SE(A,AA,B,BA)

LUC(A,B)

STOPS ABANDON CALL TIMING

LTC(A,B)

LT(2-9)

SEE NOTE 2

LTS (2-9)

LINK BUSY LAMPS (MB CKT) SEE NOTE 3

STARTS LINK SHIFT TIMING SC10, SC21 OR SC34

STEPS LINK GROUP SEQ CONTROL SC24

STEPS LINK SEQ CONTROL SC23

LE(A,AA,B,BA)

STOPS LINK SHIFT TIMING

SO

SMT(A,B)

LT(A,B)
LTC(A,B)
LT(2-9)

SL 29

GRD ON LEAD IT 89

LINE 89
LAMP (MB CKT)

VG
S9, E12
TM2
TU2

TCS2
THC2

VH
S9, E12
TM2

SMC(0-1)
SMC 2

WIL
ZL
TRL (A,B)
RAO (A,B)

SM(0,1,2)2 SEL
SM(0,1,2) 1 SEL

SMR (A,AA,BA)
IN 29
LHM 29 HOLD
CROSSPOINTS 1&2 CLOSE

HMT (AA,BA)
A
MS
IF PROVIDED

THM(08,09) HOLD
CROSSPOINTS 1&2 CLOSE

ASSOC BUSY LAMPS IN ATT EQUIP (IF PROVIDED)
L29

L (REG)
SR(REG)

HMT (A,B)

LINK 12 LAMP (MB CKT)

RHK (A,B)
HMK (A,B)

DCK(A,B)
RL(A,AA,AB,B,BA,BB)

TOLL DENIED CLASS OF SERVICE
TLD(REC)
TT
TT (REG)

TOLL ALLOWED CLASS OF SERV.
RESTRICTED CLASS OF SERV.
TT (REG)
TT
TT (REG)
TLA (REG)
TLD (REG)

MT (A,B)
TCK (1-4)
STOPS MARKER TIMING

TA2
T2
TEA(0-3)
TEB(0-3)
TSD (A,B)
TA2

TP2
TAC(A,AA,B,BA)
RAO(A,B)
UL(A,B)
UE (A,B)
U9

TCS2, THC2, TM2, TU2
SMC2
HMK (A,B)
TT (IF OPERATED)
RG (A, AA,B,BA)
SMC (0,1)

RHK (A,B)
LT(AA,BA) (2-9)
STEPS LINK GROUP SEQ CONTROL

LE(A,AA,B,BA)
LTS (2-9)
SM(0,1,2)1,2
STEPS LINK SEQ CONTROL
LT (2-9)

SR
SMT(A,B)
SMR (A,AA,B,BA)
S9
SE(A,AA,B,BA)

SR
HMT (A,B)
HMT(AA,BA)

DCK(A,B)
RL(A,AA,AB,B,BA,BB)

SHEET NOTES:
1. SC 30 ASSUMES THE FOLLOWING:
   (A) NO OTHER LINE, TRUNK, OR REGISTER IS BIDDING FOR THE MARKER.
   (B) THE PREVIOUS MARKER OPERATION HAS LEFT THE (RAOA) AND (RAOB) RELAYS OPERATED SO THAT REGISTER 0 IS SELECTED ON THIS CALL.
   (C) THE PREVIOUS MARKER OPERATION HAS LEFT THE (TRLA) AND (TRLB) RELAYS OPERATED SO THAT LINKS IN THE 12-19 GROUP ARE TESTED FIRST.
   (D) THE PREVIOUS MARKER OPERATION HAS LEFT LINK SEQUENCE CONTROL IN CONDITION SO THAT THE (WIL) AND (ZL) RELAYS WILL REMAIN OPERATED AFTER THE (LTAA) AND (LTBA) RELAYS OPERATE DURING THIS MARKER OPERATION.
   (E) LINK 12 IS IDLE.
   (F) NO BLOCKAGES OR CHECK FAILURES OCCUR TO CAUSE THE MARKER TO MAKE A SECOND TRAIL OR PROGRESS TO A TROUBLE RELEASE.
2. LT2 TO LT9 RELAYS (OPTION 22) OR LT2 TO LT9 AND LTS2 TO LTS9 RELAYS (OPTION 9) CORRESPONDING TO IDLE LINKS IN GROUP BEING TESTED OPERATE.
3. LINK BUSY LAMPS ASSOCIATED WITH IDLE LINKS IN GROUP BEING TESTED MOMENTARILY LIGHT IN THE MAKE BUSY AND BUSY DISPLAY CKT.

DRAWING ISSUE		
30D	MWJ PJS	HW
	GFH	
32D	EWB SAK	
	RHF	
PART 33D	ROZ PJS	
	RHF	
37B	ROZ PJS LDJ	

37

LINE, LINK, AND MARKER CIRCUIT (2)

SD-65741-01-E25

BELL TELEPHONE LABORATORIES INCORPORATED

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SD-65741-01-E25

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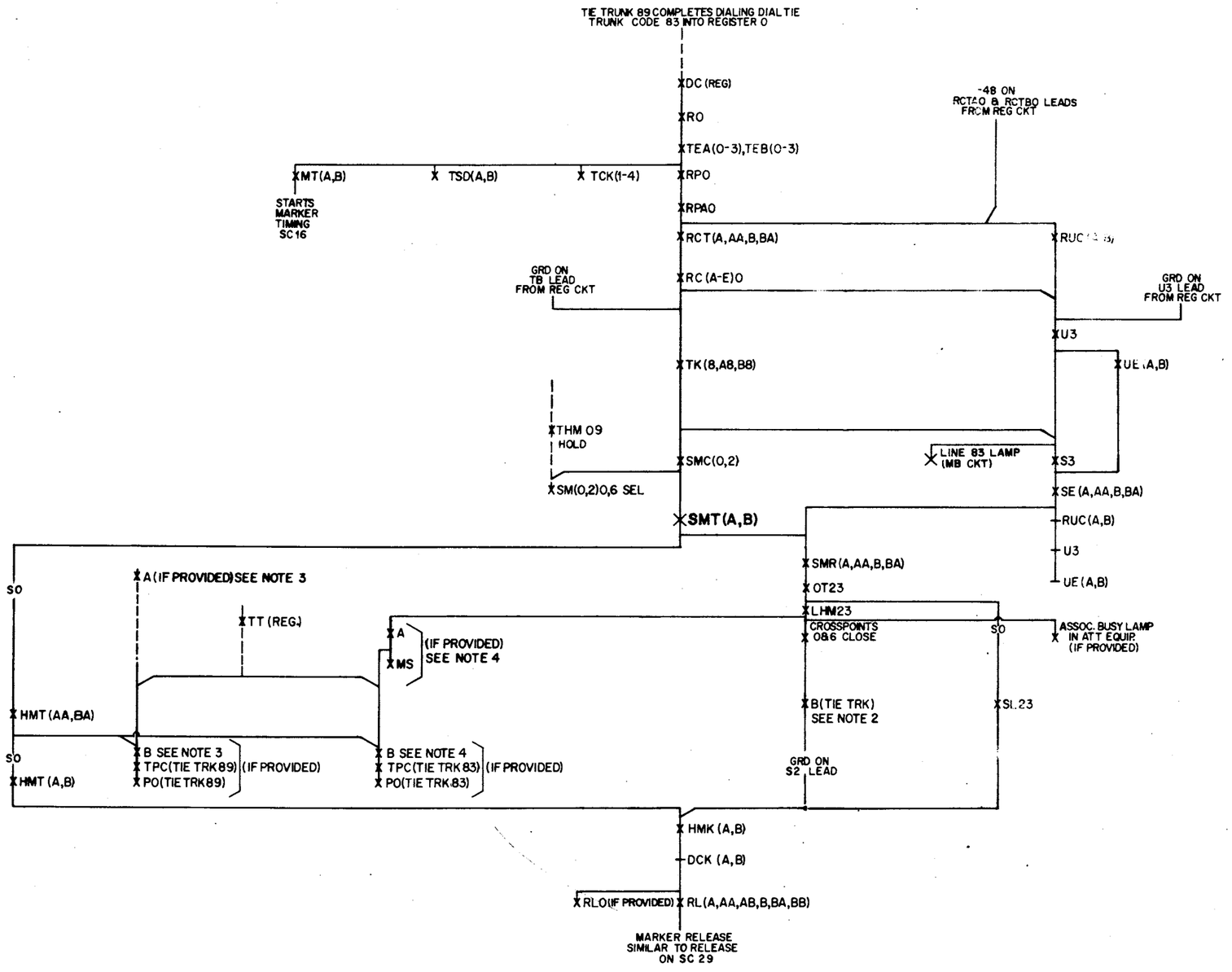
SC 31

CODE 8 TIE TRUNK TO CODE 8
TIE TRUNK CONNECTION
SEE NOTE 1



SHEET NOTES:

1. SC 31 ASSUMES THE FOLLOWING:
   (A) DIAL TIE TRUNK 83 IS IDLE.
   (B) LINK 06 WAS USED FOR THE TRUNK TO REGISTER DIAL TONE CONNECTION.
   (C) NO BLOCKAGES OR CHECK FAILURES OCCUR TO CAUSE THE MARKER TO MAKE A SECOND TRIAL OR PROGRESS TO A TROUBLE RELEASE.
2. RELAY B ON TIE TRUNK PER SD-65718-01 OR EQUIVALENT RELAY ON SIMILAR TIE TRUNKS.
3. RELAY A, B, & MS ASSOCIATED WITH TIE TRUNK 89.
4. RELAY A, B, & MS ASSOCIATED WITH TIE TRUNK 83.

DRAWING ISSUE 30

32

LINE, LINK, AND MARKER CIRCUIT (2)

SD-65741-01-E26

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SC 32

CODE 8 TIE TRUNK EQUIPPED WITH SWITCHED PAD TO SWITCHBOARD ATTENDANT CONNECTION SEE NOTE 1

SHEET NOTES:

1. SC 32 ASSUMES THE FOLLOWING:
   - (A) NO OTHER REGISTER, LINE, OR TRUNK IS BIDDING FOR THE MARKER.
   - (B) THE PREVIOUS MARKER OPERATION HAS LEFT THE UNITS SEQUENCE CONTROL IN CONDITION SO THAT THE (ZU) RELAY IS OPERATED DURING THIS MARKER OPERATION.
   - (C) ATTENDANT TRUNK "d" IS IDLE.
   - (D) LINK 12 WAS USED FOR THE STATION 39 TO REGISTER 0 DIAL TONE CONNECTION.
   - (E) NO BLOCKAGES OR CHECK FAILURES OCCUR TO CAUSE THE MARKER TO MAKE A SECOND TRIAL OR PROGRESS TO A TROUBLE RELEASE.
2. (S5) TO (S7) RELAYS CORRESPONDING TO IDLE ATTENDANT TRUNKS OPERATE.
3. THE (RAOA) & (RAOB) RELAYS OPERATE ONLY IF THE (RAIA) & (RAIB) RELAYS ARE NOT OPERATED AT THE TIME.

TIE TRUNK 89 COMPLETES DIALING INTO REGISTER 0

-48 ON RCTAO & RCTBO LEADS FROM REG CKT

MT (A,B) STARTS MARKER TIMING SC 16

TSD (A,B)

TCK (1-4)

DC (REG)

RO

TEA (0-3), TEB (0-3)

RPO

RPAO

RCT (A,AA,B,BA)

RUC (A,B)

GRD ON TO LEAD FROM REG CKT

RC (A-E)

GRD ON U5 & U9 LEADS FROM REG CKT

A

TK (0,AO,BO)

THM09 HOLD

SMC (0,8)

U (5-7,9)

SO

S (5-7) (SEE NOTE 2)

UE (A,B)

DVT (TIE TRK)

TPC (TIE TRK)

SM (0,8) 1,2 SEL

SMT (A,B)

SE (A,AA,B,BA)

OP (TIE TRK SWBD APPLIQUE CKT)

PO (TIE TRK)

SMR (A,AA,B,BA)

ZU

TRK LAMP

TIP & RING BETWEEN TIE TRK AND PBX OPENS

THM80

HMT (AA,BA)

CROSS POINTS 1 & 2 CLOSE

HMT (A,B)

A (ATT TRK)

B (ATT TRK)

HMK (A,B)

DCK (A,B)

RL (A,AA,AB,B,BA,BB)

RLO

MC (TRK)

RRL (A,B) (REG)

L (REG)

SR (REG)

ON (REG)

THM (08,09) HOLD

SL (ATT TRK)

TT (REG)

RAO (A,B) SEE NOTE 3

STOPS MARKER TIMING

IN29

MS

CROSS POINTS 1 & 2 RELEASE

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SC 33

CENTRAL OFFICE OR RINGDOWN TIE TRUNK CALL TO BUSY STATION
MESSAGE REGISTRATION PULSE ON SLEEVE OF ANY LINK
(SEE NOTE 1)

TRUNK 8 COMPLETES DIALING 57 INTO REGISTER 1

DC (REG)
RI
TEA(0-3)
TEB(0-3)
RPI
RPAI
RCT(A,AA,B,BA)
RC (A-E)1
RV (REG)
P (TRK)
MC (TRK)
P (TRK)
SMC5
SO
SMT(A,B)
BY(A,B)
HC(A,B)
SO
U(0-9)
SO
BSY(AA,BA)
SO
BSY(A,B)
SO
S7
SE(A,AA,B,BA)
SMR(A,AA,B,BA)
HMK(A,B)
CO(A,AA,B,BA)
SM(5)0,6 SEL
BY (CO TRK)
SMC(0,8)
SMT (A,B)
SO
LB(A,B)
SO
LSH (A,B)
SO
ALB (A,B)
COS(A,B)
FF(CO TRK)
LE (A,AA,B,BA)
CON (A,B)
H(MR)
SMR(A,AA,B,BA) 28W5
DR (CO TRK)
SL (CO TRK)

-48 ON RCTAI & RCTBI LEADS FROM REG CKT

GRD ON T5 LEAD FROM REG CKT

GRD ON U7 LEAD FROM REG CKT

TSD(A,B) MT(A,B) TCK(1-4)
STARTS MARKER TIMING SC16

THM19 HOLD
VG VH
TU5 TM5 TU5 TM5

THC5
TCS5

COT (REG)
COT (A,B)
RUC (A,B)
U7
UE(A,B)

SX (MR)
COD (MR)
H(MR)
CON(A,B)
TRK(A,AA,B,BA)
(SEE NOTE 2)

RUC(A,B)
U7
UE(A,B)

100Ω GRD ON S LEAD FROM STATION 57 LINE CKT

U(0-9) SEE NOTE 2

NOTES:

1. SC33 ASSUMES THE FOLLOWING:
   (A) NO OTHER REGISTER, LINE OR TRUNK IS BIDDING FOR THE MARKER.
   (B) TRUNK 8 OBTAINED A DIAL TONE CONNECTION IN ACCORDANCE WITH SC2 AND THEREFORE LINK 06 WAS USED FOR THAT CONNECTION.
   (C) LINK 04 WAS USED FOR EXISTING CONNECTION TO BUSY STATION 57.
   (D) THE PREVIOUS MARKER OPERATION HAS LEFT THE (TRLA) AND (TRLB) RELAYS RELEASED SO THAT LINKS IN THE 02-09 GROUP ARE TESTED FIRST.
   (E) NO BLOCKAGES OR CHECK FAILURES OCCUR TO CAUSE THE MARKER TO MAKE A SECOND TRIAL OR PROGRESS TO A TROUBLE RELEASE.
   (F) THE MESSAGE REGISTRATION PULSE IS PRESENT PRIOR TO LINK TESTING AND SELECTION PREVENTING THE OPERATION OF THE CON(AA,BA) RELAYS.
2. WITH CON(AA,BA), LT(A,B) AND LTC(A,B) NORMAL, NO LT2-9 RELAYS WILL OPERATE.

CON(A,B) 28J37

SMR(A,AA,B,BA) SO(A,B) THM 88 HOLD CROSSPOINTS 086 OPEN HM (TRK)
S7
SE(A,AA,B,BA)
RUC (A,B)
HMK(A,B)
TRC (A,AA,B,BA)
TRK(A,AA,B,BA) RCT(A,AA,B,BA)
SO
SMT (A,B)
SO
HMT (AA,BA)
SO
HMT(A,B)
HMK(A,B)
DCK(A,B)
RL (A,AA,AB,B,BA,BB)

RC(A-E)1 BY(A,B) BSY(A,B) BSY (AA,BA)
TCS5 THC5 TM TU5 RV (REG)
SMC 5

HD (CO TRK) ACA (CO TRK)
SP (CDLS POS CKT)
RS (CO TRK)
HD (CO TRK)
FB (CDLS POS CKT)
ALONE WITH BY (CO TRK) AND FF (CO TRK) 120 IPM TONE TO ATTENDANT

HM (TRK) THM88 HOLD

MT(A,B)
STOPS MARKER TIMER
TCK(1-4)
SR
SMT (A,B)
SR
HMT (AA,BA)
HMT (A,B)

RRL(A,B) (REG)
DC (REG)
L (REG)
RI
SR
SR (REG)
THM(18,19) HOLD
ON (REG)
RRL (A,B) (REG)
COT (REG)
RAI (A,B)
TEA (0-3)
TEB (0-3)
TSD(A,B)
MC (CO TRK)

LE (A,AA,B,BA)
SX (MR)
RPI
RPAI
COT(A,B) RUC(A,B)
HMK (A,B)
COD (MR)
CO (A,AA,B,BA)
SMC (0,8)
STEPS LINK GROUP SEQUENCE CONTROL

ALB (A,B)
COS (A,B)
LB(A,B)
LSH (A,B)
TRC(A,AA,B,BA)

DCK (A,B)
RL (A,AA,AB,B,BA,BB)

DRAWING ISSUE		
33D	ROZ	
	PJS	
	RHP	
35D	ROZ	
	PJS	
	RHP	HW
37B	ROZ	
	PJS	
	LDJ	

37

LINE, LINK AND MARKER CIRCUIT (2)

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BTMS ISSUE 6S

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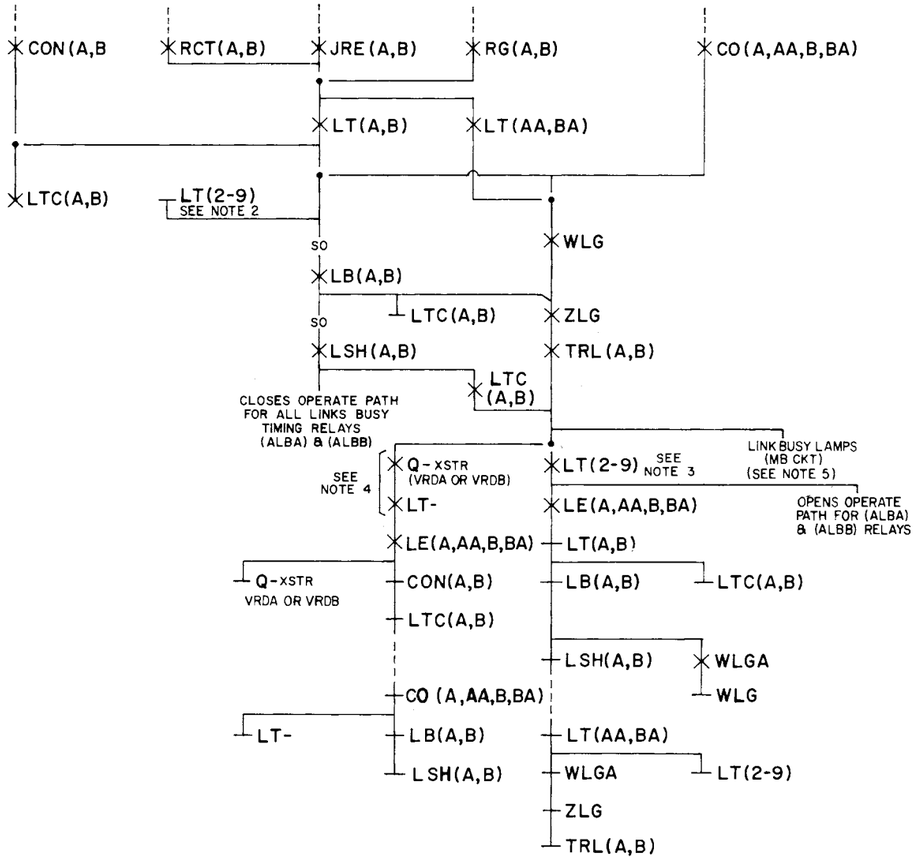
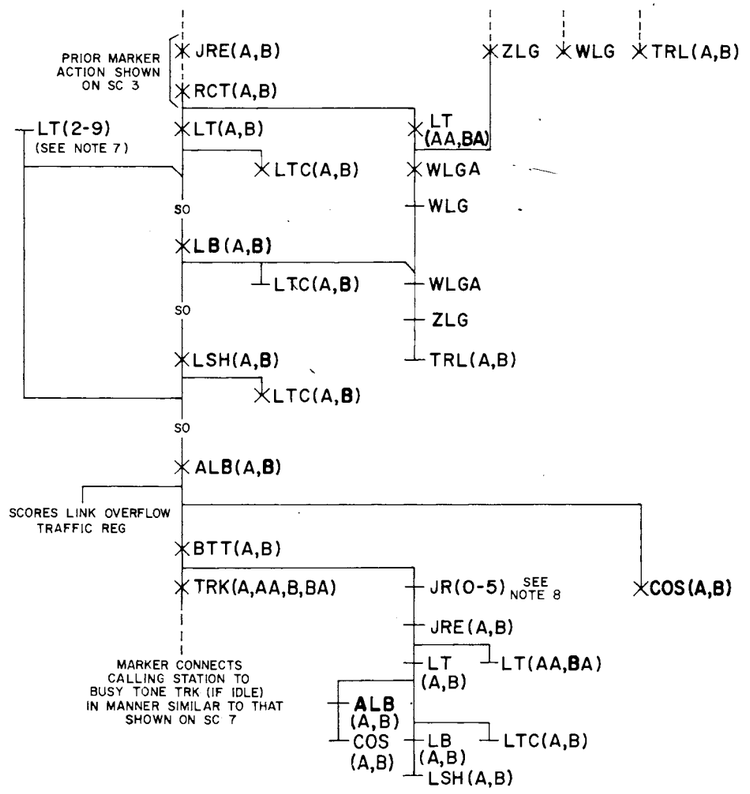
(22)SC 34

LINK SHIFT TIMING
(ALL LINKS BUSY IN FIRST GROUP TESTED SEE NOTE 1)



(22)SC 35

ALL LINKS BUSY-STATION TO STATION CALL TERMINATING CONDITION (SEE NOTE 6)



NOTES:

1. SC 34 ASSUMES THAT THE (WLG),(7LG),(TRLA), AND (TRLB) RELAYS ARE RELEASED AT THE START OF THE MARKER OPERATION.
2. NO (LT2) TO (LT9) RELAYS OPERATE SINCE ALL LINKS IN FIRST GROUP TESTED ARE BUSY OR IN THE CAMP-ON OPERATION, THE LINK BEING USED BY THE BUSY STATION IS NOT IN FIRST GROUP.
3. LT2 TO LT9 RELAYS CORRESPONDING TO IDLE LINKS IN SECOND GROUP OPERATE.
4. Q- TRANSISTOR AND LT- RELAY CORRESPONDING TO LINK BEING USED BY THE BUSY STATION OPERATES.
5. LINK BUSY LAMPS CORRESPONDING TO IDLE LINKS IN SECOND GROUP WILL MOMENTARILY LIGHT OR IF A CAMP-ON OPERATION IS INVOLVED, THE LAMP CORRESPONDING TO THE LINK BEING USED BY THE BUSY STATION WILL HAVE ALREADY BEEN LIT.
6. SC 35 ASSUMES THAT THE (WLG), (7LG), (TRLA), AND (TRLB) RELAYS ARE OPERATED AT THE START OF THE MARKER OPERATION.
7. NO LT2 TO LT9 RELAYS OPERATE SINCE ALL LINKS IN BOTH GROUPS ARE BUSY.
8. (JR0) TO (JR5) RELAYS CORRESPONDING TO JUNCTOR SELECTED FOR THIS CALL AT AN EARLIER STAGE OF THE MARKER OPERATION. SEE SC 3.

LINE, LINK AND MARKER CIRCUIT (2)

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CIRCUIT REQUIREMENTS

DRAWING ISSUE
1 P.D.
2B EH KLB
16B JDS A.P. POB

APPARATUS DESIG	APPARATUS CODE	APPARATUS OPTION	APPARATUS FIG.	MECH REQT BSP FIG.	MECH REQT CONT PRESS	MECH REQT ARM. TRVL.	CIRCUIT PREPARATION BLOCK OR INSULATE	CIRCUIT PREPARATION TEST CLIP DATA CONN BAT.	CIRCUIT PREPARATION TEST CLIP DATA CONN GRD	TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT TEST WDG	DIRECT CURRENT FLOW REQT TEST FOR	DIRECT CURRENT FLOW REQT AFTER SOAK MA.	DIRECT CURRENT FLOW REQT TEST MA.	DIRECT CURRENT FLOW REQT READJ MA.	REMARKS
MAGNETS																	
0	324AJ,	ZZ	12														
THM	324--	YA		6A					R(THM-)	GRD	1,2,3		0		31.5	30	
00-09	XBR SW								R(THM-)	GRD	4		0		75	71	
HOLD																	
SM				101				LT MAG		GRD			0		36.5	34.5	
00-09								OR TST									
SEL								RB									
1	324AJ,	ZZ	13														
THM	324--	YA		6A					R(THM-)	GRD	1,5		0		31.5	30	
10-19	XBR SW								R(THM-)	GRD	6		0		75	71	
HOLD																	
SM				101				LT MAG		GRD			0		36.5	34.5	
10-19								OR TST									
SEL								RB									
2	324AJ,	ZV	14														
LHM	324--	ZX		6A					R(LHM-)	GRD	1		0		31.5	30	
20-29	XBR SW																
HOLD																	
SM				101				LT MAG		GRD			0		36.5	34.5	
20-29								OR TST									
SEL								RB									
3	324AJ,	ZV	14														
LHM	324--	ZX		6A					R(LHM-)	GRD	1		0		31.5	30	
30-39	XBR SW								R(LHM-)	GRD	7		0		62	59	
HOLD																	
SM				101				LT MAG					0		36.5	34.5	
30-39								OR TST									
SEL								RB									
4	324AJ,	ZV	13														
LHM	324--	ZX		6A					R(LHM-)	GRD	1		0		31.5	30	
40-49	XBR SW								R(LHM-)	GRD	7		0		62	59	
HOLD																	
SM				101				LT MAG					0		36.5	34.5	
40-49								OR TST									
SEL								RB									
5	324AJ,	ZV	13														
LHM	324--	ZX		6A					R(LHM-)	GRD	4		0		31.5	30	
50-59	XBR SW								R(LHM-)	GRD	7		0		62	59	
HOLD																	
SM				101				LT MAG					0		36.5	34.5	
50-59								OR TST									
SEL								RB									

TEST NOTES:

1. SEE BSP FOR DEFINITION OF OPERATE.
2. WHEN TESTING HOLD MAGS: (THM00-04) MAKE BUSY THE ASSOCIATED CENTRAL OFFICE TRUNK AND INSULATE 6(HM) OF THE ASSOCIATED CENTRAL OFFICE TRUNK.
3. WHEN TESTING HOLD MAGS. (THM05) & (THM06) MAKE BUSY THE ASSOCIATED ATTENDANTS TRUNK AND INSULATE 6(AC) OF THE ASSOCIATED ATTENDANTS TRUNK.
4. PAR. COMB (THM08) & (THM09). WHEN TESTING HOLD MAGS. (THM08) & (THM09) BLOCK (RA0A) NO. & (RA0B) NO.
5. WHEN TESTING HOLD MAGS. (THM10-15) BLOCK RELAY (JTA) NO. WHEN TESTING HOLD MAGS. (THM16) & (THM17) BLOCK RELAY (JT8) NO.
6. PAR. COMB. (THM18) & (THM19). WHEN TESTING HOLD MAGS. (THM18) & (THM19) BLOCK (RA1A) NO. & (RA1B) NO.
7. PAR. COMB. (LHM-) AND (CO-) FOR USE WHEN "Y" OPTION IS PROVIDED.

(22 PAGES) PAGE 1

PBX SYSTEMS
NO. 756A
LINE, LINK AND MARKER CIRCUIT

SD-65741-01- F1

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CIRCUIT REQUIREMENTS

DRAWING ISSUE
1 P.D. 8-7
2B EH 5-18
16B JDS 1-5 1:1
WORN DRAWING REPRODUCED WITHOUT CHANGE 12-27-65 POB

APPARATUS DESIG	APPARATUS CODE	APPARATUS OPTION	APPARATUS FIG.	MECH REQT BSP FIG.	MECH REQT CONT PRESS	MECH REQT ARM. TRVL.	CIRCUIT PREPARATION BLOCK OR INSULATE	CIRCUIT PREPARATION TEST CLIP DATA CONN BAT.	CIRCUIT PREPARATION TEST CLIP DATA CONN GRD	TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT TEST WDG	DIRECT CURRENT FLOW REQT TEST FOR	DIRECT CURRENT FLOW REQT AFTER SOAK MA.	DIRECT CURRENT FLOW REQT TEST MA.	DIRECT CURRENT FLOW REQT READJ MA.	REMARKS
6	324AJ,	ZW	12														
LHM	324--	ZY		6A					R(LHM-)	GRD	1		0		31.5	30	
60-69	XBR SW								R(LHM-)	GRD	2		0		62	59	
HOLD																	
SM				101				LT MAG					0		36.5	34.5	
60-69								OR TST									
SEL								PB									
7	324AJ,	ZW	12														
LHM	324--	ZY		6A					R(LHM-)	GRD	1		0		31.5	30	
70-79	XBR SW								R(LHM-)	GRD	2		0		62	59	
HOLD																	
SM				101				LT MAG					0		36.5	34.5	
70-79								OR TST									
SEL								RB									
8	324AJ,	ZZ	12														
THM	324--	YA		6A					R(THM-)	GRD	1,3,4,5		0		31.5	30	
80-89	XBR SW																
HOLD																	
SM				101				LT MAG					0		36.5	34.5	
80-89								OR TST									
SEL								RB									

TEST NOTES:

1. SEE BSP FOR DEFINITION OF OPERATE.
2. PAR. COMB. (LHM-) AND (CO-) FOR USE WHEN "Y" OPTION IS PROVIDED.
3. WHEN TESTING HOLD MAGS. (THM85-89) MAKE BUSY THE ASSOCIATED CENTRAL OFFICE TRUNK AND INSULATE 6(HM) OF THE ASSOCIATED CENTRAL OFFICE TRUNK.
4. WHEN TESTING HOLD MAG. (THM80) MAKE BUSY THE ASSOCIATED ATTENDANT'S TRUNK AND INSULATE 6(AC) OF THE ASSOCIATED ATTENDANT'S TRUNK.
5. WHEN TESTING HOLD MAGS. (THM81-84) BLOCK RELAY (JT8) NO.

(22 PAGES) PAGE 2

PBX SYSTEMS
NO. 756A
LINE, LINK AND MARKER CIRCUIT

16
SD-65741-01- F1

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DWG SIZE 6S

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CIRCUIT REQUIREMENTS

NO. 756A LINE, LINK AND MARKER CIRCUIT

APPARATUS DESIG	APPARATUS CODE	APPARATUS OPTION	APPARATUS FIG	MECH REQT BSP FIG.	MECH REQT CONT PRESS.	MECH REQT ARM. TRVL.	CIRCUIT PREPARATION BLOCK OR INSULATE	TEST CLIP DATA CONN BAT.	TEST CLIP DATA CONN GRD	TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT TEST WDG	DIRECT CURRENT FLOW REQT TEST FOR	DIRECT CURRENT FLOW REQT AFTER SOAK MA.	DIRECT CURRENT FLOW REQT TEST MA.	DIRECT CURRENT FLOW REQT READJ MA.	REMARKS
RELAYS																	
A	AF79	20	20	205				L REL	U REL	B/G			0		9.7	9.2	
								UNDER TST	UNDER TST				NO		43	4.5	
ACA	AJ54		7	306				L(ACA)	U(ACA)	B/G			0		38	36	STRAP CONTACTS 3AND5
							(DCKA)O	L(ACA)	U(ACA)	B/G			NO		21	22.5	(ACA)
ACB	AJ54		7	306				L(ACB)	U(ACB)	B/G			0		38	36	STRAP CONTACTS 3AND5
							(DCKA)C	L(ACB)	U(ACB)	B/G			NO		21	22.5	(ACB)
ALBA	AJ54		9,22	306			(COSA)NO (9TTA)NC (ACA)NO I(ALBA)	L(ALBA)	U(ALBA)	B/G			0		38	36	STRAP CONTACTS 3 AND 5
								L(ALBA)	U(ALBA)	B/G			NO		21	22.5	(ALBA)
ALBB	AJ54		9,22	306			(COSB)NC (BTTB)NO (ACB)NO I(ALBB)	L(ALBB)	U(ALBB)	B/G			0		38	36	STRAP CONTACTS 3 AND 5
								L(ALBB)	U(ALBB)	B/G			NO		21	22.5	(ALBB)
ARBA	AF55		4	26			11(RAOB) 1,2(ARBA)	L(ARBA)	U(ARBA)	B/G			0		37	35	STRAP CONTACTS 4 AND 10 (ARBA)
ARBB	AF55		4	26			9(RAOB) 1,2(ARBB)	L(ARBB)	U(ARBB)	B/G			0		37	35	STRAP CONTACTS 4 AND 10 (ARBB)
B	AF79	20	20	205				L REL	U REL	B/G			0		9.7	9.2	
								UNDER TST	UNDER TST				NO		43	45	
BSYA	AJ54		7	306			(BYA) NO 4,10,11,12 (BSYA) 2(BSYBA)	L(BSYA)	U(BSYA)	B/G			0		38	36	STRAP CONTACT 5(BSYA)
								L(BSYA)	U(BSYA)	B/G			NO		21	22.5	
BSYAA	AJ54		8	306			2,12(BSYAA) 2(BSYBA)	L(BSYAA)	U(BSYAA)	B/G			0		38	36	
								L(BSYAA)	U(BSYAA)	B/G			NO		21	22.5	
BSYB	AJ54		7	306			12(BSYAA) (BYB)NO 4,10,11,12 (BSYB)	L(BSYB)	U(BSYB)	B/G			0		38	36	STRAP CONTACT 5(BSYB)
								L(BSYB)	U(BSYB)	B/G			NO		21	22.5	
BSYBA	AJ54		8	306			2,12(BSYBA) 12(BSYAA)	L(BSYBA)	U(BSYBA)	B/G			C		38	36	
								L(BSYBA)	U(BSYBA)	B/G			NO		21	22.5	
BTCA	AF55		8	26			(BTTA)NO 2,4,11, 12(BTCA)	L(BTCA)	U(BTCA)	B/G	1		0		37	35	
BTCB	AF55		8	26			(BTTB)NO 2,4,11. 12(BTCB)	L(BTCB)	U(BTCB)	B/G	1		0		34.5	32.5	
BTTA	AJ12		8	220			(ALBA)NO (NAA)NO 1,10,11(BTTA) 10(COTA) (BTCA)NO	L(BTTA)	U(BTTA)	B/G			0		42.5	40.5	STRAP CONTACTS 3,4,5,7,8 AND 9(BTTA)
BTTB	AJ12		8	220			(ALBB)NO (NCB)NC 1,10,11(BTTB) 10(COTB) (BTCB)NO	L(BTTB)	U(BTTB)	B/G			0		42.5	40.5	STRAP CONTACTS 3,4,5,7,8 AND 9(BTTB)
BTTC	1/2AK7	XA	8	203					IL(BTTC)	GRD			0		27	25.5	MOUNTED WITH (CCC)
													R		10.5	11	
BYA	AF64		7	219			2,5,6,11, 12(BYA)		U(BYA)	GRD			0		11.2	10.6	
BYB	AF64		7	219			2,5,6,11, 12(BYB)		U(BYB)	GRD			0		11.2	10.6	
CCC	1/2AK7	XA	8	203					IU(CCC)	GRD			0		27	25.5	MOUNTED WITH (BTTC)
													R		10.5	11	
CO20	EA43	XW,Y	3	11/11	H				IB(CO)	GRD			0		10.2	9.7	
CO79		XX											NO		3.8	4.0	

1 IF OPTION WZ IS PROVIDED (ISSUE 36B), INSULATE 10M OF (BTC-) INSTEAD OF CONTACT 2.

DRAWING ISSUE: 1 2B 11B 23D 24D 27D 30D 33D 35D 36B

LINE, LINK AND MARKER CIRCUIT — SD-65741-01-F2

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SD-65741-01-F2

CIRCUIT REQUIREMENTS

APPARATUS DESIG	APPARATUS CODE	APPARATUS OPTION	APPARATUS FIG	MECH REQT BSP FIG.	MECH REQT CONT PRESS.	MECH REQT ARM. TRVL.	CIRCUIT PREPARATION BLOCK OR INSULATE	TEST CLIP DATA CONN BAT.	TEST CLIP DATA CONN GRD	TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT TEST WDG	DIRECT CURRENT FLOW REQT TEST FOR	DIRECT CURRENT FLOW REQT AFTER SOAK MA.	DIRECT CURRENT FLOW REQT TEST MA.	DIRECT CURRENT FLOW REQT READJ MA.	REMARKS
COA	AJ12		8	220			7(LEAA) 10(COTA) 6,7,9,12 (COA) (COAA) NO	L(COA)	U(COA)	B/G			0		42.5	40.5	WDG ALONE
													0		95	90	PAR COMB. (COA) & (COAA)
																	STRAP CONTACTS 3,5,6,7 AND 11(COA)
COAA	AJ202		8	500									0		42.5	40.5	WDG ALONE
							7(LEAA) 10,12(COTA) (COA) NO 4,8,9,10,11,12 13,24(COAA)	L(COAA)	U(COAA)	B/G			0		95	90	PAR COMB. (COA) & (COAA)
COAL	1/2 AK24	WT	11	12			1,4,5(COAL)		2L(COAL)	GRD			0		7.8	7.4	MOUNTED WITH XCAL
COB	AJ12		8	220									0		42.5	40.5	WDG ALONE
							8(LEAA) 10(COTB) 6,7,9,12 (COB) (COBA) NO	L(COB)	U(COB)	B/G			0		95	90	PAR COMB. (COB) & (COBA)
																	STRAP CONTACTS 3,5,6,7 AND 11 (COB)
COBA	AJ202		8	500									0		42.5	40.5	WDG ALONE
							8(LEAA) 10,12(COTB) (COB) NO 4,8,9,10,11, 12,13,24 (COBA)	L(COBA)	U(COBA)	B/G			0		95	90	PAR COMB. (COB) & (COBA)
CONA	AF132		8	61									0		34.5	32.5	WDG ALONE
CONAA	AF132	WS	8	61			*	L(CONA)	U(CONA)	B/G	2		0		76.5	72.5	PAR COMB. (CONA) & (CONAA)
CONAA	AJ15	WT	8	249			**	L(CONA)	U(CONA)	B/G	1,2		0		84.8	80.8	PAR COMB.(CONA) & (CONAA)
CONB	AF132		8	61									0		34.5	32.5	WDG ALONE
CONBA	AF132	WS	8	61			***	L(CONB)	U(CONB)	B/G	2		0		76.5	72.5	PAR COMB (CONB) & (CONBA)
CONBA	AJ15	WT	8	249			****	L(CONB)	U(CONB)	B/G	1,2		0		84.8	80.8	PAR COMB(CONB) & (CONBA)
COS	B98		9	7		35	4,17 (COAA)	17(COAA)	4(COAA)	B/G			0		4.2	4	
							4,17 (COBA) (COSA)NO (COSB)NO	17(COAA)	4(COAA)	B/G			R		2.3	2.5	
COSA	AG10		9	358			(ALBA)NO (COTA)NO (COAA)NO (COS)NO I(COSA)	L(COSA)		BAT.			0	30	10.8	10.2	
								L(COSA)		BAT.			H	30	2.3	2.1	
								L(COSA)		BAT.			R	30	1.2	1.4	
COSB	AG10		9	358			(AL88)NO (COTB)NO (COAA)NO (COS)NO I(COSB)	L(COSB)		BAT.			0	30	10.8	10.2	
								L(COSB)		BAT.			H	30	2.3	2.1	
								L(COSB)		BAT.			R	30	1.2	1.4	
COSA	AJ68		22	277			*****		U(COSA)	GRD			0		28.4	27	
									U(COSA)	GRD			NO		18	19	
COSB	AJ68		22	277			******		U(COSB)	GRD			0		28.4	27	
									U(COSB)	GRD			NO		18	19	

TEST NOTES:

1. STRAP L OF (CON-) & (CON-A) AND STRAP U OF (CON-) & (CON-A).
2. IF OPTION WX IS PROVIDED (ISSUE 36B), 11 OF (CON-) NEED NOT BE INSULATED.

* 7(LEBA) 1,2,8,10,11, 12(CONA) 2,3,4,5,7,8,9,10,11, 12(CONAA)
** 7,(LEAA) 1, 2 ,8,9,10,11,12(CONA) 1,2,3,4,8,9,10,11,12 (CONAA) 7,(LEBA)
*** 8(LEBA) 1,2,8,10,11,12 (CONB) 2,3,4,5,7,8,9,10,11,12 (CONBA)
**** 8,(LEAA) 8 (LEBA) 1, 2, 8, 9, 10 ,11,12(CONB) 1,2,3,4,8,9,10,11,12 (CONBA)
***** (ALBA) NO, (COTA) NO, (COAA) NO, (XC) NO
****** (ALBB) NO, (COTB) NO, (COBA) NO, (XC) NO

DRAWING ISSUE: 1 2B 11B 23D 24D 27D 30D 33D 35D 36B

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LINE, LINK AND MARKER CIRCUIT (2) — SD-65741-01-F2

BELL TELEPHONE LABORATORIES, INC — DWG SIZE 6S — PRINTED IN U.S.A.

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CIRCUIT REQUIREMENTS

APPARATUS DESIG	APPARATUS CODE	APPARATUS OPTION	APPARATUS FIG.	MECH REQT BSP FIG.	MECH REQT CONT PRESS.	MECH REQT ARM. TRVL.	CIRCUIT PREPARATION BLOCK OR INSULATE	TEST CLIP DATA CONN BAT.	TEST CLIP DATA CONN GRD	TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT TEST WDG	TEST FOR	AFTER SOAK MA.	TEST MA.	READJ MA.	REMARKS
COTA	AF55		8	26			18(RPA0) 18(RPA1) 8,10 (COTA)	L(COTA)		BAT.			0		37	35	STRAP CONTACT 7 (COTA)
COTB	AF55		8	26			17(RPA0) 17(RPA1) .8,10 (COTB)	L(COTA)		BAT.			0		37	35	STRAP CONTACT 7 (COTB)
DCKA	AF10		8	214			(RLAA)NO 12(DCKA) (TOKA)NO 5(RLBA)		U(DCKA)	GRD			0 NO		7.6 4.2	7.2 4.5	
DCKB	AF10		8	214			(RLBA)NO (TOKB)NO 12(DCKB) 5(RLAA)		U(DCKB)	GRD			0 NO		7.6 4.2	7.2 4.5	
HCA	AF132		7	61			(BYA)NO (THC2)- (THC7)NO	L(HCA)	U(HCA)	B/G			0		34.5	32.5	
HCB	AF132		7	61			(BYB)NO (THC2)- (THC7)NO	L(HCB)	U(HCB)	B/G			0		34.5	32.5	
HMKA	AF88		7	42			4(SOA) 4(SMTA) (TRKA)NO (TRKAA) NO (JTAA)NO (COTA)NO (BTTA)NO (DCKA)0		U(HMKA) U(HMKA)	GRD GRD			0 NO		33.5 12.2	31.5 12.9	STRAP CONTACTS 1 AND 11(HMKA)
HMKB	AF88		7	42			4(SOB) 4(SMTB) (HMTB)NO (TRKB)NO (TRKBA) NO (COTB)NO (BTTB)NO (DCKB)0		U(HMKB) U(HMKB)	GRD GRD			0 NO		33.5 12.2	31.5 12.9	STRAP CONTACTS 1 AND 11(HMKB)
HMTA	AJ62		8	313			(HMTAA)NO 4,10,11 (HMTA) (TRKA)NO (TRKAA)NO	L(HMTA) L(HMTA)	U(HMTA) U(HMTA)	B/G B/G			0 NO		38 21	36 22.5	STRAP CONTACTS 8,9 (HMTA)
HMTAA	AJ54		8	306			(HMTA) NO 1,4,12(HMTAA) (SMTA) NO (ALBA) NO	L(HMTAA) L(HMTAA)	U(HMTAA) U(HMTAA)	B/G B/G			0 NO		38 21	36 22.5	STRAP CONTACTS 5,7 AND 9 (HMTAA)
HMTB	AJ62		8	313			(HMTBA)NO 4,10,11 (HMTB) (TRKB)NO (TRKBA)NO	L(HMTB) L(HMTB)	U(HMTB) U(HMTB)	B/G B/G			0 NO		38 21	36 22.5	STRAP CONTACTS 8, 9 (HMTB)
HMTBA	AJ54		8	306			(HMTB)NO (SMTB)NO (ALBB)NO 1,4,12(HMTBA)	L(HMTBA) L(HMTBA)	U(HMTBA) U(HMTBA)	B/G B/G			0 NO		38 21	36 22.5	STRAP CONTACTS 5, 7 AND 9 (HMTBA)

DRAWING ISSUE

1	P.C. M.R.
2B	TC. F.E.
5D	RWL CHD RAC
9B	VZ M.S. PD
11B	D.L. W.E. P.O.B.
12B	AEG WM POB
14B	V.S. VJS T.E.B.
16B	JOS A.F. POB
24D	WPA
35D	FED RHP
36B	ROZ RJS LDJ

LINE, LINK AND MARKER CIRCUIT — SD-65741-01-F3

BELL TELEPHONE LABORATORIES, INC

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B-7422 (4-63)

CIRCUIT REQUIREMENTS

APPARATUS DESIG	APPARATUS CODE	APPARATUS OPTION	APPARATUS FIG.	MECH REQT BSP FIG.	MECH REQT CONT PRESS.	MECH REQT ARM. TRVL.	CIRCUIT PREPARATION BLOCK OR INSULATE	TEST CLIP DATA CONN BAT.	TEST CLIP DATA CONN GRD	TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT TEST WDG	TEST FOR	AFTER SOAK MA.	TEST MA.	READJ MA.	REMARKS
ICTA	AF140		8	304			2(NCB) 4,8 (ICTA) (TRKA)NO (TRKAA) NO	L(ICTA)	U(ICTA)	B/G			0		9.1	8.6	STRAP CONTACTS 3,5,9 AND 7 (ICTA)
ICTB	AF140		8	304			5(NCA) 5(NCB) 4,8 (ICTB) (TRKB)NO (TRKBB) NO	L(ICTB)	U(ICTB)	B/G			0		9.1	8.6	STRAP CONTACTS 5,7,9 AND 3 (ICTB)
IN20- IN29	AK7		1	203			8(IN-)		2U(IN-) 2U(IN-)	GRD GRD			0 NO		27. 10.4	25.5 11	
JR0- JR5	AF132		7	61			4,7,10,11, 12,5(JR)	L(JR-)	U(JR-)	B/G			0		34.5	32.5	
JRAL	AF115		11	274			4(JRAL)		U(JRAL) U(JRAL)	GRD GRD			0 NO		7.1 4.7	6.7 5	
JREA	AJ12		7	220			(TRKA)NO (TRKAA)NO 4,6,10(JREA)	L(JREA)	U(JREA)	B/G			0		42.5	40.5	STRAP CONTACTS 2,3,5,6,7,9 (JREA)
JREB	AJ12		7	220			(TRKB) NO (TRKBA)NO 4,6,10(JREB)	L(JREB)	U(JREB)	B/G			0		42.5	40.5	STRAP CONTACTS 2,3,5,6,7,9 (JREB)
JTA	AF132		7	61			22(RPA0) 22(RPA1) 2,3,4,6, 7,8,9, (JTA) (JTAA)NO	L(JTA)	U(JTA)	B/G			0		34.5	32.5	
JTAA	AJ28		7	257			(JTA)NO 19,11(JTAA)	L(JTAA)	U(JTAA)	B/G	2	S S	0 R		12.4 1.9	11.8 2.	
JTB	AF132		7	61			21(RPA0) 21(RPA1) 2,3,4,6, 7,8,9 (JTB) (JTBA)NO	L(JTB)	U(JTB)	B/G			0		34.5	32.5	
JTBA	AJ28		7	257			(JTB)NO 19,11(JTBA)	L(JTBA)	U(JTBA)	B/G	2	S S	0 R		12.4 1.9	11.8 2.	
L20- L29	AF141		1	225	H		4(L) 4(L)	1L(L) 1L(L)	2U(L) 2U(L) 2U(L)	M M GRD	1 1 1	P/S P/S S	0 NO NO		17 11 23.5	16 11.5	
L30- L59	EA26	K	1,2	4/-	H		2T(L) 2T(L)		3RT(L) 3RT(L)	GRD GRD	1 1		0 NO		22 17	21 18	
L30- L59	EA44	G	1,2	4/-	H		2T(L) 2T(L)		3RT(L) 3RT(L)	GRD GRD	1 1		0 NO		22 17	21 18	
L60- L79	EA26	F	2	4/-	H		2T(L) 2T(L)		3RT(L) 3RT(L)	GRD GRD	1 1		0 NO		22 17	21 18	
L60- L79	EA44	E	2	4/-	H		2T(L) 2T(L)		3RT(L) 3RT(L)	GRD GRD	1 1		0 NO		22 17	21 18	
LAL1	AF85		11	401			3(LAL1)		U(LAL1) U(LAL1) U(LAL1)	GRD GRD GRD			0 NO R		36 22.5 9.9	34 23.5 10.5	

TEST NOTES:

1. BLOCK ASSOCIATED LINE HOLD MAGNET OFF-NORMAL SPRINGS OPERATED.
2. IF OPTION WX IS PROVIDED (ISSUE 36B), ALSO INSULATE 2 OF (JT-A).

DRAWING ISSUE

1	P.C. M.R. W.S.
2B	TC. F.E. W.S.
5D	RWL CHD RAC
9B	VZ M.S. PD
11B	D.L. W.E. P.O.B.
12B	AEG WM POB
14B	V.S. VJS T.E.B.
16B	JOS A.F. POB
24D	WPA SAI KF
35D	FED PJS RHP
36B	ROZ PJS LDJ

LINE, LINK, AND MARKER CIRCUIT (2) — SD-65741-01-F3

BELL TELEPHONE LABORATORIES, INC — DWG SIZE 6S

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CIRCUIT REQUIREMENTS

DRAWING ISSUE: 12B NC WM P.D.B. | 33D FED RHP

APPARATUS DESIG	APPARATUS CODE	APPARATUS OPTION	APPARATUS FIG.	MECH REQT BSP FIG.	MECH REQT CONT PRESS.	MECH REQT ARM. TRVL	CIRCUIT PREPARATION BLOCK OR INSULATE	TEST CLIP DATA CONN BAT.	TEST CLIP DATA CONN GRD	TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT TEST WDG	DC FLOW TEST FOR	DC FLOW AFTER SOAK MA.	DC FLOW TEST MA.	DC FLOW READJ MA.	REMARKS
LAL2	AF85		11	401			3(LAL2)		U(LAL2)	GRD			0		36	34	
									U(LAL2)	GRD			NO		22.5	23.5	
									U(LAL2)	GRD			R		9.9	10.5	
LAL2A	AF85		11	401			3(LAL2A)		U(LAL2A)	GRD			0		36	34	
									U(LAL2A)	GRD			NO		22.5	23.5	
									U(LAL2A)	GRD			R		9.9	10.5	
LBA	AJ27		9,22	213			(LTA)NO	L(LBA)		BAT.			0		14.9	14.2	STRAP CONTACTS 4,5 & 7(LBA)
							(COA)NO	L(LBA)		BAT.			NO		8.1	8.6	WITH ZN OPTION
							(ALBA)NO										
							(LTA)NO		U(LBA)	GRD			0		14.9	14.2	
							(COA)NO		U(LBA)	GRD			NO		8.1	8.6	STRAP CONTACTS 5,7(LBA)
							(LSHA)NO										WITH ZO OPTION
							12(LBA)										
LBB	AJ27		9,22	213			(LTB)NO	L(LBB)		BAT.			0		14.9	14.2	STRAP CONTACTS 4,5 & 7(LBB)
							(COB)NO	L(LBB)		BAT.			NO		8.1	8.6	WITH ZN OPTION
							(ALBB)NO										
							(LTB)NO		U(LBB)	GRD			0		14.9	14.2	STRAP CONTACTS 5,7(LBB)
							(COB)NO		U(LBB)	GRD			NO		8.1	8.6	WITH ZO OPTION
							(LSHB)NO										
							12(LBB)										
LCK1	1/2 AK4		9,22	202			8(LEA)	1U(LCK1)	2U(LCK1)	B/G			0		11.9	11.3	MOUNTED WITH LCK2
							8(LEB)										
							8,9,12(LCK1)										
LCK2	1/2 AK4		9,22	202			1,5(LCK2)		2L(LCK2)	GRD			0		11.9	11.3	MOUNTED WITH LCK1
LEA	AF55		9,22	26									0		37	35	WDG ALONE
							(LTAA)NO	L(LEA)	U(LEA)	B/G			0		82	78	PAR. COMB. (LEA) &
							2,19(COBA)										(LEAA) STRAP CONTACTS
							(COSA)NO										4 & 7(LEA)
							11,12(LEA)										
							(LEAA)NO										
							(COAA)NO										
LEAA	AJ12		9,22	220									0		42.5	40.5	WDG ALONE
							(LTAA)NO	L(LEAA)	U(LEAA)	B/G			0		95	90	PAR. COMB. (LEAA) & (LEA)
							2,19(COBA)										STRAP CONTACTS 4,7,8 &
							(LEA)NO										10(LEAA)
							(COAA)NO										
LEB	AF55		9,22	26									0		37	35	WDG ALONE
							(LTBA)NO	L(LEB)	U(LEB)	B/G			0		82	78	PAR. COMB. (LEB) & (LEBA)
							3,18(COAA)										STRAP CONTACTS 4 &
							(LEBA)NO										7(LEB)
							(COSB)NO										
							11,12(LEB)										
							(COBA)NO										
LEBA	AJ12		9,22	220									0		42.5	40.5	WDG ALONE
							(LTBA)NO	L(LEBA)	U(LEBA)	B/G			0		95	90	PAR. COMB. (LEBA) & (LEB)
							3,18(COAA)										STRAP CONTACTS 4,7,8 AND
							(LEB)NO										10(LEBA)
							(COBA)NO										
LSHA	AF113	ZO	9,22	273			(LBA)NO		U(LSHA)	GRD			0		8.7	8.2	STRAP CONTACT 9(LSHA)
							(ALBA)NO										
							(LTCA)NO										
							(LEA)NO										
							(LEAA)NO										
							6(LSHA)										
LSHB	AF113	ZO	9,22	273			(LBB)NO		U(LSHB)	GRD			0		8.7	8.2	STRAP CONTACT 9(LSHB)
							(ALBB)NO										
							(LTCB)NO										
							(LEB)NO										
							(LEBA)NO										
							6(LSHB)										
LT2	280EE		9	B			3(TRLB)	2(CONAA)	3(TRLB)	B/G		P	0	-40		0.9	
							2(CONAA)	2(CONAA)	3(TRLB)	B/G		P	NO	-40		0.6	
							2(CONBA)	2(CONAA)	3(TRLB)	B/G		P	0	-40	6.4	6.1	
							2(LTA)	2(CONAA)	3(TRLB)	B/G		P	NO	-40	3.5	3.7	
							2(LTB)	3(TRLB)	2(LTA)	B/G		S	0		9.9		
							(LTS2)NO	3(TRLB)	2(LTA)	B/G		S	NO		4.7		
LT2	AJ68		22	277			1,2,4,6,8,10,12	L(LT2)	U(LT2)	B/G			0		28.4	27	
							(LT2),1(CONAA)	L(LT2)	U(LT2)	B/G			NO		18	19	

LINE, LINK, AND MARKER CIRCUIT

SD-65741-01-F4

BELL TELEPHONE LABORATORIES INCORPORATED

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E-7483 (12-60)

CIRCUIT REQUIREMENTS

DRAWING ISSUE: 12B NC WM | 33D FED PJ RHP

APPARATUS DESIG	APPARATUS CODE	APPARATUS OPTION	APPARATUS FIG.	MECH REQT BSP FIG.	MECH REQT CONT PRESS.	MECH REQT ARM. TRVL	CIRCUIT PREPARATION BLOCK OR INSULATE	TEST CLIP DATA CONN BAT.	TEST CLIP DATA CONN GRD	TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT TEST WDG	DC FLOW TEST FOR	DC FLOW AFTER SOAK MA.	DC FLOW TEST MA.	DC FLOW READJ MA.	REMARKS
LT3	280EE		9	B			4(TRLB)	3(CONAA)	4(TRLB)	B/G			P	0	-40		0.9	
							3(CONAA)	3(CONAA)	4(TRLB)	B/G			P	NO	-40		0.6	
							3(CONBA)	3(CONAA)	4(TRLB)	B/G			P	0	-40	6.4	6.1	
							3(LTA)	3(CONAA)	4(TRLB)	B/G			P	NO	-40	3.5	3.7	
							3(LTB)	4(TRLB)	3(LTA)	B/G			S	0		9.9		
							(LTS3)NO	4(TRLB)	3(LTA)	B/G			S	NO		4.7		
LT3	AJ68		22	277			1,2,4,6,8,10,12	L(LT3)	U(LT3)	B/G				0		28.4	27	
							(LT3)2(CONAA)	L(LT3)	U(LT3)	B/G				NO		18	19	
LT4	280EE		9	B			6(TRLB)	4(CONAA)	6(TRLB)	B/G			P	0	-40		0.9	
							4(CONAA)	4(CONAA)	6(TRLB)	B/G			P	NO	-40		0.6	
							4(CONBA)	4(CONAA)	6(TRLB)	B/G			P	0	-40	6.4	6.1	
							4(LTA)	4(CONAA)	6(TRLB)	B/G			P	NO	-40	3.5	3.7	
							4(LTB)	6(TRLB)	4(LTA)	B/G			S	0		9.9		
							(LTS4)NO	6(TRLB)	4(LTA)	B/G			S	NO		4.7		
LT4	AJ68		22	277			1,2,4,6,8,10,12	L(LT4)	U(LT4)	B/G				0		28.4	27	
							(LT4)3(CONAA)	L(LT4)	U(LT4)	B/G				NO		18	19	
LT5	280EE		9	B			7(TRLB)	5(CONAA)	7(TRLB)	B/G			P	0	-40		0.9	
							5(CONAA)	5(CONAA)	7(TRLB)	B/G			P	NO	-40		0.6	
							5(CONBA)	5(CONAA)	7(TRLB)	B/G			P	0	-40	6.4	6.1	
							5(LTA)	5(CONAA)	7(TRLB)	B/G			P	NO	-40	3.5	3.7	
							5(LTB)	7(TRLB)	5(LTA)	B/G			S	0		9.9		
							(LTS5) NO	7(TRLB)	5(LTA)	B/G			S	NO		4.7		
LT5	AJ68		22	277			1,2,4,6,8,10,12	L(LT5)	U(LT5)	B/G				0		28.4	27	
							(LT5)4(CONAA)	L(LT5)	U(LT5)	B/G				NO		18	19	
LT6	280EE		9	B			3(TRLA)	7(CONAA)	3(TRLA)	B/G			P	0	-40		0.9	
							7(CONAA)	7(CONAA)	3(TRLA)	B/G			P	NO	-40		0.6	
							7(CONBA)	7(CONAA)	3(TRLA)	B/G			P	0	-40	6.4	6.1	
							7(LTA)	7(CONAA)	3(TRLA)	B/G			P	NO	-40	3.5	3.7	
							7(LTB)	3(TRLA)	7(LTA)	B/G			S	0		9.9		
							(LTS6)NO	3(TRLA)	7(LTA)	B/G			S	NO		4.7		
LT6	AJ68		22	277			1,2,4,6,8,10,12	L(LT6)	U(LT6)	B/G				0		28.4	27	
							(LT6)9(CONAA)	L(LT6)	U(LT6)	B/G				NO		18	19	
LT7	280EE		9	B			4(TRLA)	9(CONAA)	4(TRLA)	B/G			P	0	-40		0.9	
							9(CONAA)	9(CONAA)	4(TRLA)	B/G			P	NO	-40		0.6	
							9(CONBA)	9(CONAA)	4(TRLA)	B/G			P	0	-40	6.4	6.1	
							9(LTA)	9(CONAA)	4(TRLA)	B/G			P	NO	-40	3.5	3.7	
							9(LTB)	4(TRLA)	9(LTA)	B/G			S	0		9.9		
							(LTS7)NO	4(TRLA)	9(LTA)	B/G			S	NO		4.7		
LT7	AJ68		22	277			1,2,4,6,8,10,12	L(LT7)	U(LT7)	B/G				0		28.4	27	
							(LT7)10(CONAA)	L(LT7)	U(LT7)	B/G				NO		18	19	
LT8	280EE		9	B			6(TRLA)	10(CONAA)	6(TRLA)	B/G			P	0	-40		0.9	
							10(CONAA)	10(CONAA)	6(TRLA)	B/G			P	NO	-40		0.6	
							10(CONBA)	10(CONAA)	6(TRLA)	B/G			P	0	-40	6.4	6.1	
							10(LTA)	10(CONAA)	6(TRLA)	B/G			P	NO	-40	3.5	3.7	
							10(LTB)	6(TRLA)	10(LTA)	B/G			S	0		9.9		
							(LTS8)NO	6(TRLA)	10(LTA)	B/G			S	NO		4.7		
LT8	AJ68		22	277			1,2,4,6,8,10,12	L(LT8)	U(LT8)	B/G				0		28.4	27	
							(LT8)11(CONAA)	L(LT8)	U(LT8)	B/G				NO		18	19	
LT9	280EE		9	B			7(TRLA)	11(CONAA)	7(TRLA)	B/G			P	0	-40		0.9	
							11(CONAA)	11(CONAA)	7(TRLA)	B/G			P	NO	-40		0.6	
							11(CONBA)	11(CONAA)	7(TRLA)	B/G			P	0	-40	6.4	6.1	
							11(LTA)	11(CONAA)	7(TRLA	B/G			P	NO	-40	3.5	3.7	
							11 (LTB)	7(TRLA)	11(LTA)	B/G			S	0		9.9		
							(LTS9)NO	7(TRLA)	11(LTA)	B/G			S	NO		4.7		
LT9	AJ68		22	277			1,2,4,6,8,10,12	L(LT9)	U(LT9)	B/G				0		28.4	27	
							(LT9)12(CONAA)	L(LT9)	U(LT9)	B/G				NO		18	19	
LTA	AF132		9	61			10(LEAA)	L(LTA)	L(LTA)	B/G				0		34.5	32.5	
							(LTCA)NO											
							2,3,4,5,7,8,9,											
							10, 11(LTA)											
LTA	AJ15		22	249			10(LEAA)	L(LTA)	U(LTA)	B/G				0		42.5	40.5	
							1-12(LTA)											
LTAA	AJ12		9,22	220			10(LEAA)	L(LTAA)		BAT.				0		42.5	40.5	
							(RGA)NO											
							(JREA)NO											
							2,3,4,7											
							(LTAA)											
LTB	AF132		9	61			10(LEBA)	L(LTB)	U(LTB)	B/G				0		34.5	32.5	
							(LCTB)NO											
							2,3,4,5,7,8											
							9, 10, 11(LTB)											
LTB	AJ15		22	249			10(LEBA)	L(LTB)	U(LTB)	B/G				0		42.5	40.5	
							1-12(LTB)											
LTBA	AJ12		9,22	220			10(LEBA)	L(LTBA)		BAT.				0		42.5	40.5	
							(RGB)NO											
							(JREB)NO											
							2,3,4,7(LTBA)											
LTCA	AJ202		9	500			(LTA)NO	L(LTCA)	U(LTCA)	B/G				0		42.5	40.5	
							(CONA)NO											
LTCA	AF24		22	8			(LTA)NO	L(LTCA)	U(LTCA)	B/G				0		30.5	29	
							(CONA) NO											
							1-8(LTCA)											
LTCB	AJ202		9	500			(LTB) NO	L(LTCB)	U(LTCB)	B/G				0		42.5	40.5	
							(CONB)NO											
LTCB	AF24		22	8			(LTB) NO	L(LTCB)	U(LTCB)	B/G				0		30.5	29	
							(CONB)NO											
							1-8(LTCB)											

LINE, LINK, AND MARKER CIRCUIT

SD-65741-01- F4

BELL TELEPHONE LABORATORIES INCORPORATED

DWG SIZE 6S

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CIRCUIT REQUIREMENTS

APPARATUS DESIG	APPARATUS CODE	APPARATUS OPTION	APPARATUS FIG		MECH REQT BSP FIG.	MECH REQT CONT PRESS	MECH REQT ARM TRVL	CIRCUIT PREPARATION BLOCK OR INSULATE	CIRCUIT PREPARATION TEST CLIP DATA CONN BAT.	CIRCUIT PREPARATION TEST CLIP DATA CONN GRD	TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT TEST WDG	TEST FOR	AFTER SOAK MA.	TEST MA.	READ MA.	REMARKS
LTS2	AF94		9		243			3(LT-)	1L(LTS-)		BAT.		P	0		21	20	STRAP CONTACTS 4,7 AND
LTS3								23(COAA)	2L(LTS-)	2U(LTS-)	B/G		S	0		12.6	12	8(LTS-)
								23(COBA)										
								12(LTAA)										
								12(LTBA)										
								1,2,4,6,10										
								11,12										
								(LTS-)										
LTS4	AF94		9		243			3(LT-)	1L(LTS-)		BAT.		P	0		21	20	STRAP CONTACTS 4.7 AND
LTS5								22(COAA)	2L(LTS-)	2U(LTS-)	B/G		S	0		12.6	12	8(LTS-)
								22(COBA)										
								12(LTBA)										
								1,2,4,6,10										
								11,12										
								(LTS-)										
LTS6	AF94		9		243			3(LT-)	1L(LTS-)		BAT.		P	0		21	20	STRAP CONTACTS 4.7 AND
LTS7								21(COAA)	2L(LTS-)	2U(LTS-)	B/G		S	0		12.6	12	8(LTS-)
								21(COBA)										
								8(LTAA)										
								8(LTBA)										
								1,2,4,6										
								10,11,12,										
								(LTS-)										
LTS8	AF94		9		243			3(LT-)	1L(LTS-)		BAT.		P	0		21	20	STRAP CONTACTS 4.7. AND
LTS9								20(COAA)	2L(LTS-)	2U(LTS-)	B/G		S	0		12.6	12	8(LTS-)
								20(COBA)										
								8(LTAA)										
								8(LTBA)										
								1,2,4,6										
								10,11,12										
								(LTS-)										
LUCA	AF132		7		61			8(UEB)	L(LUCA)	U(LUCA)	B/G			0		34.5	32.5	
								1,2,3,4,										
								5,6,7,9,										
								10,11,12										
								(LUCA)										
LUCB	AF132		7		61			6(UEB)	L(LUCB)	U(LUCB)	B/G			0		34.5	32.5	
								1,2,3,4,										
								5,6,7,9,										
								10,11,12										
								(LUCB)										
MAL	AF118		11		401			6(MAL)		U(MAL)	GRD			0		14	13.3	
MON2-MON7	AJ5	Y	3		220				L(MON-)		BAT.			0		13.3	12.6	WDG ALONE
														0		95	90	PAR COMB. (MON2)-(MON6)
MON A,B,C	AJ205	XW,XX	3						L(MON-)		BAT.			0		170	160	PAR COMB. (MON A,B,C)
MS	1/2AK23	20	20		3					2L REL UNDER TST	GRD			0		7.8	7.4	FOR EVEN NUMBERED CKT. ON UNIT.
MS	1/2AK23	20	20		3					2U REL UNDER TST	GRD			0		7.8	7.4	FOR ODD NUMBERED CKT. ON UNIT.
MTA	AF132		10		61			9(RLB) (TMA)NO 6(MTA)	L(MTA)	U(MTA)	B/G			0		34.5	32.5	
MTB	AF132		10		61			7(RLB) (TMB)NO 6(MTB)	L(MTB)	U(MTB)	B/G			0		34.5	32.5	

DRAWING ISSUE

1	P.C.
2B	EH KD
11B	A.L. WE P.O.B.
12B	AEG WM POB
27D	WPA SAK
	GFH
30D	TAP PJS
	GFH
33D	FED RHP

LINE, LINK, AND MARKER CIRCUIT — SD-65741-01-F5

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CIRCUIT REQUIREMENTS

APPARATUS DESIG	APPARATUS CODE	APPARATUS OPTION	APPARATUS FIG		MECH REQT BSP FIG	MECH REQT CONT PRESS	MECH REQT ARM TRVL	CIRCUIT PREPARATION BLOCK OR INSULATE	CIRCUIT PREPARATION TEST CLIP DATA CONN BAT.	CIRCUIT PREPARATION TEST CLIP DATA CONN GRD	TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT TEST WDG	TEST FOR	AFTER SOAK MA.	TEST MA.	READ MA.	REMARKS
NAA	AJ12		10		220			(NCA) NO (MTA) NO 11(NAA)	L(NAA)	U(NAA)	B/G			C		42.5	40.5	STRAP CONTACTS 1,3,5,7, (NAA).
NAB	AJ12		10		220			(NCB) NO (MTB) NO 3(NAB)	L(NAB)	U(NAB)	B/G			0		42.5	40.5	STRAP CONTACTS 1,3,5,7,9 AND 11 (NAB).
NCA	AJ3		10		226			7(TAA) (MTA) NO (BTTA) NO	L(NCA)	U(NCA)	B/G			0		18	17	STRAP CONTACTS 1,2,3,4,10 AND 11 (NCA).
NCB	AJ3		10		226			7(TAB) (MTB) NO (BTTB) NO	L(NCB)	U(NCB)	B/G			0		18	17	STRAP CONTACTS 1,2,3,4,10 AND 11 (NCB).
NT	AF88		9,22		42			10,12(NT)	L(NT)		BAT.			0		33.5	31.5	STRAP CONTACTS 1,3,5,7,9 AND 11 (NT).
									L(NT)		BAT			NO		12.2	12.9	
~~OT20-29~~ OT20-29	AK7		1		203			1,5(OT-)		2L(OT-)	GRD			0		27	25.5	
								12(IN-)		2L(OT-)	GRD			NO		10.4	11	
RO	AJ12		4		220			2,4,5,6 8,10(RO)	L(RO)	U(RO)	B/G	1	P	0		42.5	40.5	STRAP BREAK CONTACTS 2,4, 8 AND 10(RO).
R1	AJ12		4		220			2,4,5,6, 8,10(R1)	L(R1)	U(R1)	B/G	2	P	0		42.5	40.5	STRAP BREAK CONTACTS 2,4, 8 AND 10(R1)
RAOA	AJ5		5		220									0		13.3	12.6	WDG ALONE
								(RAOB)NO 2,11 (RAOA)	L(RAOA)	U(RAOA)	B/G	1		0		29.5	28	PAR COMB. (RAOA) & (RAOB) STRAP CONTACTS 6,8,9(RAOA)
RAOB	AF129		5		28									0		10	9.5	WDG ALONE
								4,6 (RAOB) (RAOA)NO	L(RAOB)	U(RAOB)	B/G	1		0		23	21.5	PAR COMB. (RAOB) & (RAOA) STRAP CONTACTS 1,3,4,6,9 10, AND 11(RAOB)
RA1A	AJ5		5		220									0		13.3	12.6	WDG ALONE
								(RA1B)NO 12 (RA1A)	L(RA1A)	U(RA1A)	B/G	2		0		29.5	28	PAR COMB. (RA1A) & (RA1B) STRAP CONTACTS 2 AND 11(RA1A)
RA1B	AF129		5		28									0		10	9.5	WDG ALONE
								4,6 (RA1B) (RA1A)NO	L(RA1B)	U(RA1B)	B/G	2		0		23	21.5	PAR COMB. (RA1B) & (RA1A) STRAP CONTACTS 1,3, 9 AND 11(RA1B)
RCAO	AF132		5		61									0		34.5	32.5	WDG ALONE
								(RCBO)NO (RCCO)NO (RCDO)NO (RCEO)NO	L(RCAO)	U(RCAO)	B/G	1		0		201	192	PAR COMB. (RCAO), (RCBO), (RCCO), (RCDO), (RCEO)
RCA1	AF132		5		61									0		34.5	32.5	WDG ALONE
								(RCB1)NO (RCC1)NO (RCD1)NO (RCE1)NO	L(RCA1)	U(RCA1)	B/G	2		0		201	192	PAR COMB. (RCA1), (RCB1), (RCC1), (RCD1), (RCE1)

DRAWING ISSUE

1	A.C. M.R. W.S.
2B	EH KD M.W.S.
11B	A.L. WE P.O.
12B	AEG WM POB
27D PMTL	WPA SAK NY.
	GFH HW.
30D	TAP PJS 715
	GFH 1015
33D	FED PJS
	RHP PML

TEST NOTES:

1. MAKE REGISTER 0 BUSY.
2. MAKE REGISTER 1 BUSY.

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LINE, LINK, AND MARKER CIRCUIT — SD-65741-01-F5

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APPARATUS DESIG	APPARATUS CODE	APPARATUS OPTION	APPARATUS FIG.	MECH REQT BSP FIG.	MECH REQT CONT PRESS.	MECH REQT ARM. TRVL.	CIRCUIT PREPARATION BLOCK OR INSULATE	TEST CLIP DATA CONN BAT.	TEST CLIP DATA CONN GRD	TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT TEST WDG	TEST FOR	AFTER SOAK MA.	TEST MA.	READJ MA.	REMARKS
RCB0	AF111		5	270									0		42.5	40.5	WDG ALONE
							(RCA0)NO (RCC0)NO (RCD0)NO (RCE0)NO 5,6,9,10,11, 12(RCB0)	L(RCB0)	U(RCB0)	B/G	1		0		251	239	PAR COMB. (RCB0), (RCA0), (RCC0), (RCD0), (RCE0) STRAP CONTACTS 7 AND 8(RLB0)
RCB1	AF111		5	270									0		42.5	40.5	WDG ALONE
							(RCA1)NO (RCC1)NO (RCD1)NO (RCE1)NO 5,6,9,10,11, 12(RCB1)	L(RCB1)	U(RCB1)	B/G	2		0		251	239	PAR COMB. (RCB1), (RCA1), (RCC1), (RCD1), (RCE1) STRAP CONTACTS 7 AND 8(RCB1)
RCC0 RCD0 RCE0	AF132		5	61									0		34.5	32.5	WDG ALONE
							OTHER (RC-0)NO	L(RCC0)	U(RCC0)	B/G			0		201	192	PAR COMB. (RCC0), (RCA0), (RCB0), (RCD0), (RCE0)
RCC1 RCD1 RCE1	AF132		5	61									0		34.5	32.5	WDG ALONE
							OTHER (RC-1)NO	L(RCC1)	U(RCC1)	B/G			0		201	192	PAR COMB. (RCC1), (RCA1), (RCB1), (RCD1), (RCE1)
RCKA	AF87		8	240			8(TRA)	L(RCKA)		BAT.			0		14.3	13.6	
								L(RCKA)		BAT.			NO		9	9.5	
RCKB	AF87		8	240			8(TRB)	L(RCKB)		BAT.			0		14.3	13.6	
								L(RCKB)		BAT.			NO		9	9.5	
RCTA	AF24		7	8									0		30.5	29	WDG ALONE
							(RCTAA) NO 1,2,3,4, 5,6,7,8 (RCTA) 7(TRCA)	L(RCTA)	U(RCTA)	B/G			0		68	64.5	PAR.COMB. (RCTA) & (RCTAA)
RCTAA	1/2AK6		7	2									0		29	27.5	WDG ALONE
							(RCTA)NO 1,5(RCTAA) 7(TRCA)	1L(RCTAA)	2L(RCTAA)	B/G			0		62	59	PAR COMB. (RCTAA) & (RCTA) STRAP CONTACT 4(RCTAA) MOUNTED WITH (SEAA)
RCTB	AF24		7	8									0		30.5	29	WDG ALONE
							(RCTBA) NO 1,2,3,4, 5,6,7,8 (TRCA)	L(RCTB)	U(RCTB)	B/G			0		69.5	66.5	PAR COMB. (RCTB) & (RCTBA)
RCTBA	1/2AK6		7	2									0		29	27.5	WDG ALONE
							(RCTB)NO 1,5(RCTBA) 5(TRCA)	1L(RCTBA)	2L(RCTBA)	B/G			0		68.5	65	PAR COMB. (RCTB) & (RCTBA) MOUNTED WITH (SEBA)
RGA	AF132		5	61									0		34.5	32.5	WDG ALONE
							10(TP2)- 10(TP7) 10(TRP0) 10(TRP1) (RGAA)NO 1,2,3,4,7, 9,10,11, (RGA)	L(RGA)	U(RGA)	B/G			0		76	72.5	PAR COMB. (RGA) & (RGAA)

TEST NOTES:

1. MAKE REGISTER 0 BUSY.
2. MAKE REGISTER 1 BUSY.

DRAWING ISSUE	
1	P.C.
2B	RM MD
9B	VZ MS PD
14B	VS JBS TEB
30D	EW PJS GFH

APPARATUS DESIG	APPARATUS CODE	APPARATUS OPTION	APPARATUS FIG.	MECH REQT BSP FIG.	MECH REQT CONT PRESS.	MECH REQT ARM. TRVL.	CIRCUIT PREPARATION BLOCK OR INSULATE	TEST CLIP DATA CONN BAT.	TEST CLIP DATA CONN GRD	TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT TEST WDG	TEST FOR	AFTER SOAK MA.	TEST MA.	READJ MA.	REMARKS
RGAA	AF132		5	61									0		34.5	32.5	WDG ALONE
							10(TP2)- 10(TP7) 10(TRP0) 10(TRP1) (RGA)NO	L(RGAA)	U(RGAA)	B/G			0		76	72.5	PAR COMB. (RGAA) & (RGA)
RGB	AF132		5	61									0		34.5	32.5	WDG ALONE
							9(TP2)- 9(TP7) 10(TRP0) 10(TRP1) (RGBA)NO 1,2,3,4,7, 9,10,11, (RGB)	L(RGB)	U(RGB)	B/G			0		76	72.5	PAR COMB. (RGB) & (RGBA)
RGBA	AF132		5	61									0		34.5	32.5	WDG ALONE
							9(TP2)- 9(TP7) 9(TRP0) 9(TRP1) (RGB)NO	L(RGBA)	U(RGBA)	B/G			0		76	72.5	PAR COMB. (RGBA) & (RGB)
RHKA	AF114		5	54			(HMTA)NO 10(RHKA)		U(RHKA)	GRD			0		24.5	23	STRAP CONTACT 2(RHKA)
RHKB	AF114		5	54			(HMTB)NO 10(RHKB)		U(RHKB)	GR			0		24.5	23	STRAP CONTACT 2(RHKB)
RLO	1/2AK5	19	19	4			1M(RLO)		2L(RLO)	GRD			0		15.8	15.0	MTD. WITH RLI
RLI	1/2AK5	19	19	4			12M(RLI)		2U(RLI)	GRD			0		15.8	15.0	MTD. WITH RLO
RLA	AF88		8	42									0		33.5	31.5	WDG ALONE
							(DCKA)O (RLAA)NO (RLAB)NO 2,4(RLA)	L(RLA)	U(RLA)	B/G			0		85	81	PAR COMB. (RLA), (RLAA), (RLAB) STRAP CONTACTS 5,7 AND 11(RLA)
RLAA	AJ5		8	220									0		13.5	12.6	WDG ALONE
							(DCKA)O (RLA)NO (RLAB)NO	L(RLAA)	U(RLAA)	B/G			0		12.9	12.3	PAR COMB.(RLAA), (RLA), (RLAB) STRAP CONTACTS 1,3,9 AND 11(RLAA)
RLAB	AF88		8	42									0		33.5	31.5	WDG ALONE
							(DCKA)O (RLA)NO (RLAA)NO 2,4 (RLAB)	L(RLAB)	U(RLAB)	B/G			0		85	81	PAR COMB. (RLAB),(RLA) (RLAA) STRAP CONTACTS 1,7,9, AND 11(RLBA)
RLAL	AF85		11	401			3(RLAL)		U(RLAL)	GRD			0		36.	34.	
									U(RLAL)	GRD			NO		22	235	
									U(RLAL)	GRD			R		9.9	10.5	
RLB	AF88		8	42									0		33.5	31.5	WDG ALONE
							(DCKB)O (RLBA)NO (RLBB)NO 2,4(RLB)	L(RLB)	U(RLA)	B/G			0		85	81	PAR COMB. (RLB),(RLBA), (RLBB) STRAP CONTACTS 3,9 AND 11(RLB)
RLBA	AJ5		8	220									0		13.6	12.6	WDG ALONE
							(RLB)NO (RLBB)NO (DCKB)O	L(RLBA)	U(RLBA)	B/G			0		129	123	PAR COMB. (RLBA), (RLB), (RLBB) STRAP CONTACTS 1,3,9 AND 11(RLBA)

DRAWING ISSUE	
1	P.C.
2B	RM MD
9B	VZ MS PD
14B	VS JBS TEB
30D	EW PJS GFH

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APPARATUS DESIG	APPARATUS CODE	APPARATUS OPTION	APPARATUS FIG.	MECH REQT BSP FIG.	MECH REQT CONT PRESS	MECH REQT ARM TRVL	CIRCUIT PREPARATION BLOCK OR INSULATE	TEST CLIP DATA CONN BAT	TEST CLIP DATA CONN GRD	TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT TEST WDG	DIRECT CURRENT FLOW REQT TEST FOR	DIRECT CURRENT FLOW REQT AFTER SOAK MA.	DIRECT CURRENT FLOW REQT TEST MA.	DIRECT CURRENT FLOW REQT READJ MA.	REMARKS
RLBB	AF86		8	42									C		33.5	31.5	WDG ALONE
							(DCKB)O (RLB)NO (RLBA)NO 2,4 (RLBB)	L(RLBB)	U(RLBB)	B/G			C		85	81	PAR COMB. (RLBB). (RLB). (RLBA) STRAP CONTACTS 1,7,9, 11(RLBB)
RLSA	AJ12	ZH	10	220									0		42.5	40.5	WDG ALONE
							(RCKA)O (RLSAA) NO	L(RLSA)	U(RLSA)	B/G			0		95	90	PAR COMB. (RLSA) & (RLSAA) STRAP CONTACTS 2,5,8,9, AND 10(RLSA)
RLSA	AJ39	ZI	10	220									0		18.5	17.5	WDG ALONE
							(RCKA)O (RLSAA) NO	L(RLSA)	U(RLSA)	B/G			0		49	46.5	PAR COMB. (RLSA) & (RLSAA) STRAP CONTACTS 2,5,8,9, AND 10(RLSA)
RLSAA	AJ12		10	220									0		42.5	40.5	WDG ALONE
							(RCKA)O (RLSA)NO 3,6 (RLSAA)	L(RLSAA)	U(RLSAA)	B/G	3		0		95	90	PAR COMB. (RLSAA) & (RLSA)
								L(RLSAA)	U(RLSAA)	B/G	4		0		80	75	STRAP CONTACTS 4,8,9,10, AND 11(RLSAA)
RLSB	AJ12	ZH	10	220									0		42.5	40.5	WDG ALONE
							(RCKB)O (RLSBA) NO	L(RLSB)	U(RLSB)	B/G			0		95	90	PAR COMB. (RLSB) & (RLSBA) STRAP CONTACTS 2,5,8,9, AND 12(RLSB)
RLSB	AJ39	ZI	10	220									C		18.5	17.5	WDG ALONE
							(RCKB)O (RLSBA) NO	L(RLSB)	U(RLSB)	B/G			C		49	46.5	PAR COMB. (RLSB) & (RLSBA) STRAP CONTACTS 2,5,8,9, AND 12(RLSB)
RLSBA	AJ12		10	220									0		42.5	40.5	WDG ALONE
							(RCKB)O (RLSB)NO 3,6 (RLSBA)	L(RLSBA)	U(RLSBA)	B/G	3		0		95	90	PAR COMB. (RLSBA) & (RLSB)
								L(RLSBA)	U(RLSBA)	B/G	4		0		80	75	STRAP CONTACTS 4,8,9,10, AND 11(RLSBA)
RPO	AF77		4	8			(RPAO)NO 3,4,9,10,12 (RPO)	1L(RPO)	1U(RPO)	B/G	1	P	C		49	46.5	
								2L(RPO)	2U(RPO)	B/G	1	S	C		44	41.5	
RP1	AF77		4	8			(RPA1)NO 3,4,9,10, 12 (RP1)	1L(RP1)	1U(RP1)	B/G	2	P	0		49	46.5	
								2L(RP1)	2U(RP1)	B/G	2	S	0		44	41.5	
RPAO	AJ202		7	500			1,2,7,8, 9,10,11, 12 (RPAO)	L(RPAO)	U(RPAO)	B/G	1		0		42.5	40.5	
RPA1	AJ202		7	500			1,2,7,8, 9,10,11, 12 (RPA1)	L(RPA1)	U(RPA1)	B/G	2		0		42.5	40.5	
RUCA	AF132		7	61			9(SEB) 1,2,3,4, 5,7,9,10, 11,12 (RUCA)	L(RUCA)	U(RUCA)	B/G			C		34.5	32.5	
RUCB	AF132		7	61			7(SEB) 1,2,3,4, 5,7,9,10, 11,12 (RUCB)	L(RUCB)	U(RUCB)	B/G			C		34.5	32.5	
SO-SQ	AJ55		7	62			(11-)NO 1,2,3,4, 6,8,10, 11,12(S-)	1L(S-)		BAT		P	C		6.6	6.2	STRAP CONTACTS 4,6,8 AND 10(S-)
								2L(S-)		BAT		S	C		25.5		
SAA	AF64		10	219			(MTA)NO 2,4,8, 10(SAA)	L(SAA)	U(SAA)	B/G			C		11.2	10.6	
SAB	AF64		10	219			(MTB)NO 2,4,8, 10(SAB)	L(SAB)	U(SAB)	B/G			C		11.2	10.6	

TEST NOTES:

1. MAKE REGISTER C BUSY.
2. MAKE REGISTER I BUSY.
3. TEST VALUES FOR LSE WHEN ZH OPTION IS FURNISHED.
4. TEST VALUES FOR LSE WHEN ZI OPTION IS FURNISHED.

DRAWING ISSUE

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9B	V.Z. M.S
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P.D.B.

NO. 756A
LINE, LINK AND MARKER CIRCUIT

SD-65741-01-F7

BELL TELEPHONE LABORATORIES, INC

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APPARATUS DESIG	APPARATUS CODE	APPARATUS OPTION	APPARATUS FIG.	MECH REQT BSP FIG.	MECH REQT CONT PRESS	MECH REQT ARM TRVL	CIRCUIT PREPARATION BLOCK OR INSULATE	TEST CLIP DATA CONN BAT	TEST CLIP DATA CONN GRD	TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT TEST WDG	DIRECT CURRENT FLOW REQT TEST FOR	DIRECT CURRENT FLOW REQT AFTER SOAK MA.	DIRECT CURRENT FLOW REQT TEST MA.	DIRECT CURRENT FLOW REQT READJ MA.	REMARKS
SEA	AF64		7	219									0		11.	10.6	WDG ALONE
							1C(RLSBA) (SEAA)NO 1,2,3,4,5, 8,10 (SEA)	L(SEA)	U(SEA)	B/G			0		64.5	61.3	PAR COMB. (SFA) & (SEAA) STRAP CONTACT 9(SEA)
SEAA	1/2 AK6		7	2									0		29	27.5	WDG ALONE
							1C(RLSBA) (SEA)NO 10(SEAA)	1U(SEAA)	2U(SEAA)	B/G			0		50.5	48.5	PAR COMB. (SEAA) & (SEA) STRAP CONTACTS 12 AND 11(SEA) MOUNTED WITH (RCTAA)
SEB	AF64		7	219									0		11.	10.6	WDG ALONE
							1C(RLSAA) (SEBA)NO 1,2,3,4,5, 8,10 (SEB)	L(SEB)	U(SEB)	B/G			0		64.5	61.3	PAR COMB. (SEB) & (SEBA) STRAP CONTACT 9(SEB)
SEBA	1/2 AK6		7	2									0		29	27.5	WDG ALONE
							10(PLSAA) (SEB)NO 10(SEBA)	1U(SEBA)	2U(SEBA)	B/G			0		50.5	48.5	PAR COMB. (SEBA) & (SEB) STRAP CONTACTS 10 AND 8(SEBA) MOUNTED WITH (RCTSA)
SL20 29	AF10		17	214					U REL GRD TST				0		8.1	7.2	
SMCO, 1, 2,3, 4,5, 6,7, 8	AF24		16 15 1 15 16 16	8			11,12(SMC-)		U(SMC-)	GRD			0		30.5	29	
SMRA	AF132		8	61									0		34.5	32.5	WDG ALONE
							(SMTA)NO (COMA)NO (BYA)NO 1,2,3,4, 5,7,9, 10,11,12 (SMRA) (SMRAA)NO	L(SMRA)	U(SMRA)	B/G			0		76.5	72.5	PAR COMB. (SMRA) & (SMRAA)
SMRAA	AF132		8	61									0		34.5	32.5	WDG ALONE
							(SMTA)NO (COMA)NO (BYA)NO 1,2,3,4, 5,7,8,9, 10,11,12 (SMRAA) (SMRA)NO	L(SMRAA)	U(SMRAA)	B/G			0		76.5	72.5	PAR COMB. (RMEAA) & (SMRA)
SMRB	AF132		8	61									0		34.5	32.5	WDG ALONE
							(SMTB)NO (COMB)NO (BYB)NO 1,2,3,4, 5,7,9, 10,11,12 (SMRB) (SMRBA)NO	L(SMRB)	U(SMRB)	B/G			0		76.5	72.5	PAR COMB. (SMRB) & (SMRBA)
SMRBA	AF132		8	61									0		34.5	32.5	WDG ALONE
							(SMTB)NO (COMB)NO (BYB)NO 1,2,3,4, 5,7,8,9, 10,11,12 (SMRBA) (SMRB)NO	L(SMRBA)	U(SMRBA)	B/G			0		76.5	72.5	PAR COMB. (SMRBA) & (SMRB)

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1	P.C. M.R
2B	P.C. K.G.S
5D	A.D. J.H.D
9B	V.Z. M.S
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P.D.

NO. 756A
LINE, LINK AND MARKER CIRCUIT

SD-65741-01-F7

11

BELL TELEPHONE LABORATORIES, INC

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CIRCUIT REQUIREMENTS

DRAWING ISSUE: 1 P.C. NO. | 2B TC F.B.S. | 14B V.S. J.B.S. T.E.B. | 33D FED PJS RHP ROZ | 36B PJS LDJ

APPARATUS DESIG	CODE	OPTION	FIG.		MECH REQT BSP FIG.	CONT PRESS	ARM. TRVL.	CIRCUIT PREPARATION BLOCK OR INSULATE	TEST CLIP DATA CONN BAT.	CONN GRD	TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT TEST WDG	TEST FOR	AFTER SOAK MA.	TEST MA.	READJ MA.	REMARKS
SMTA	AJ53		9,22		298			9(RLSB) (HMTAA)NO (SMRA)NO (SMRAA) NO (TRKA)NO (TRKAA) NO 4,5,7 (SMTA)	L(SMTA)	U(SMTA)	B/G	1		0 NO		39 21	37 22.5	STRAP CONTACT 10(SMTA)
SMTB	AJ53		9,22		298			9(RLSA) (HMTBA)NO (SMRB)NO (SMRBA) NO (TRKB)NO (TRKBA) NO 4,5,7 (SMTB)	L(SMTB) L(SMTB)	U(SMTB) U(SMTB)	B/G B/G	1		0 NO		39 21	37 22.5	STRAP CONTACT 10(SMTB)
SOA	AF82		8		235			(BSYA)NO 1,2,3,4, 5,6,7,8,9, 10,11,1 (SOA)	L(SOA)	U(SOA)	B/G			0		37	35	STRAP CONTACTS 4 AND 8(SOA)
SOB	AF82.		8		235			(BSYB)NO 1,2,3,4, 5,6,7,8,9, 10,11,1 (SOB)	L(SOB)	U(SOB)	B/G			0		37	35	STRAP CONTACTS 4 AND 8 (SOB)
STA	AJ15		10		249			(MTA)NO 9(SAA)	L(STA)	U(STA)	B/G			0		42.5	40.5	STRAP CONTACTS 2,3,9 AND 10 (STA)
STAR	1/2AK4		10		202			(MTA)NO 9(SAA)	1U(STAR)	2U(STAR)	B/G			0		11.9	11.3	STRAP CONTACTS 8,9,10,AND 11(STAR).
STB	AJ15		10		249			(MTB)NO 9(SAB)	L(STB)	U(STB)	B/G			0		42.5	40.5	STRAP CONTACTS 2,3,9 AND 10 (STB)
STBR	1/2AK4		10					(MTB)NO 9(SAB)	1L(STBR)	2L(STBR)	B/G			0		11.9	11.3	STRAP CONTACTS 2,3,4, AND 5(STBR).
T2-5 T6,7	AJ12	 V	4		220			(TA-)0 2,3,4,5, 7,9(T-)	L(T-)	U(T-)	B/G			0		42.5	40.5	STRAP CONTACTS 3,5,7 AND 9(T-)
TA2-5 TA6,7	AJ31	 V	4		36			(T-)NO 10(TA-)	L(TA-)	U(TA-)	B/G			0		14.4	13.7	
TAA	AJ54		10		306			(MTA)NO (STA)NO 10,12(TAA)	L(TAA) L(TAA)	U(TAA) U(TAA)	B/G B/G			0 NO		38 21	36 22.5	STRAP CONTACTS 8,9(TAA)
TAAL	AF9		11		213			12(TAAL)		U(TAAL)	GRD			0		8.7	8.2	
TAB	AJ54,		10		306			(MTB)NO (STB)NO 10,12(TAB)	L(TAB) L(TAB)	U(TAB) U(TAB)	B/G B/G			0 NO		38 21	36 22.5	STRAP CONTACTS 4,9(TAB)

1. IF OPTION WX IS PROVIDED (ISSUE 36B), ALSO INSULATE 9 OF (SMT-).

LINE, LINK AND MARKER CIRCUIT — SD-65741-01-F8

BELL TELEPHONE LABORATORIES, INC

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SD-65741-01-F8

CIRCUIT REQUIREMENTS

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APPARATUS DESIG	CODE	OPTION	FIG.		MECH REQT BSP FIG.	CONT PRESS	ARM. TRVL.	CIRCUIT PREPARATION BLOCK OR INSULATE	TEST CLIP DATA CONN BAT.	CONN GRD	TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT TEST WDG	TEST FOR	AFTER SOAK MA.	TEST MA.	READJ MA.	REMARKS
TACA	AF24		7		8			11(RLSBA) (TACAA) NO 1,2,5,6 (TACA)	L(TACA)	U(TACA)	B/G			0 0		30.5 68	29 64.5	WDG ALONE PAR COMB. (TACA) & (TACAA)
TACAA	AF55		7		26			11(RLSBA) (TACA)NO 1,2,4,6 (TACAA)	L(TACAA)	U(TACAA)	B/G			0 0		37 82	35 78	WDG ALONE PAR COMB. (TACAA) & (TACA)
TACB	AF24		7		8			11(RLSAA) (TACBA) NO 1,2,5,6 (TACB)	L(TACB)	U(TACB)	B/G			0 0		30.5 68	29 64.5	WDG ALONE PAR COMB. (TACB) & (TACBA)
TACBA	AF55		7		26			11(RLSAA) (TACB)NO 1,2,4,6 (TACBA)	L(TACBA)	U(TACBA)	B/G			0 0		37 82	35 78	WDG ALONE PAR COMB. (TACBA) & (TACB)
TAL	AF85		11		401			3(TAL)		U(TAL) U(TAL) U(TAL)	GRD GRD GRD			0 NO R		36 2.2 9.9	34 23.5 10.5	
TCK1	1/2AK3		4		3			1(RLAA)	1U(TCK1)		BAT.			0		33	31	MOUNTED WITH (TCK2)
TCK2	1/2AK3		4		3			9(RLAA)		2L(TCK2)	GRD			0		27.5	26	MOUNTED WITH (TCK1)
TCK3	1/2AK3		4		3			11(RLAA)		2L(TCK3)	GRD			0		27.5	26	MOUNTED WITH (TCK4)
TCK4	1/2AK3		4		3			3(RLAA)	1U(TCK4)		BAT.			0		33	31	MOUNTED WITH (TCK3)
TCS2-5 TCS6,7	AF132	 V	1,2		61			(T-)NO (TM-)NO (TU-)NO (THC-)NO 1-5,7,9-12 (TCS-)	L(TCS-)	U(TCS-)	B/G			0 0		34.5 160	32.5 152	WDG ALONE PAR COMB. (TCS-), (TM-), (TU-), (THC-)
TEAO	AF55		4		26			8(RLSA) (TEA1)NO (TEA2)NO (TEA3)NO	L(TEAO)	U(TEAO)	B/G	1		0 0		37 75	35 71	WDG ALONE
TEA1	AF129		4		28			8(RLSA) (TEAO)NO (TEA2)NO (TEA3)NO	L(TEA1)	U(TEA1)	B/G	1		0 0		10 79	9.5 75.	WDG ALONE STRAP CONTACTS 1,3,5,7,9 AND 11(TEA1)
TEA2	AF129		4		28			8(RLSA) (TEAO)NO (TEA1)NO 2,4 (TEA2) (TEA3)NO	L(TEA2)	U(TEA2)	B/G	1		0 0		10 79	9.5 75	WDG ALONE STRAP CONTACTS 5,9(TEA2)
TEA3	AF119		4		266			8(RLSA) (TEAO)NO (TEA1)NO (TEA2)NO 2,4(TEA3)	L(TEA3)	U(TEA3)	B/G	1		0 0		12.6 99	12 94	WDG ALONE STRAP CONTACTS 7,9(TEA3)

TEST NOTES:
1. PARALLEL COMBINATION (TEAO), (TEA1), (TEA2) AND (TEA3).

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LINE, LINK AND MARKER CIRCUIT (2) — SD-65741-01-F8

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CIRCUIT REQUIREMENTS

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APPARATUS DESIG	APPARATUS CODE	APPARATUS OPTION	APPARATUS FIG.	MECH REQT BBP FIG.	MECH REQT CONT PRESS.	MECH REQT ARM. TRVL.	CIRCUIT PREPARATION BLOCK OR INSULATE	CIRCUIT PREPARATION TEST CLIP DATA CONN BAT.	CIRCUIT PREPARATION TEST CLIP DATA CONN GRD	TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT TEST WDG	DIRECT CURRENT FLOW REQT TEST FOR	DIRECT CURRENT FLOW REQT AFTER SOAK MA.	DIRECT CURRENT FLOW REQT TEST MA.	DIRECT CURRENT FLOW REQT READJ MA.	REMARKS
TEB0	AF55		4	26									0		37	35	WDG ALONE
							8(RLSB) (TEB1)NO (TEB2)NO (TEB3)NO	L(TEB0)	U(TEB0)	B/G	3		0		75	71	
TEB1	AF129		4	28									0		10	9.5	WDG ALONE
							8(RLSB) (TEB0)NO (TEB2)NO (TEB3)NO	L(TEB1)	U(TEB1)	B/G	3		0		79	75	STRAP CONTACTS 1,3,5,7, 9 & 11 (TEB1)
TEB2	AF129		4	28									0		10	9.5	WDG ALONE
							8(RLSB) (TEB0)NO (TEB1)NO 2,4 (TEB2) (TEB3)NO	L(TEB2)	U(TEB2)	B/G	3		0		79	75	STRAP CONTACTS 5 & 9(TEB2)
TEB3	AF119		4	226									0		12.6	12	WDG ALONE
							8(RLSB) (TEB0)NO (TEB1)NO (TEB2)NO 2,4(TEB3)	L(TEB3)	U(TEB3)	B/G	3		0		99	94	STRAP CONTACTS 7 & 9(TEB3)
THC2-5 THC6,7	AF132	V	1,2	61									0		34.5	32.5	WDG ALONE
							(T-)NO (TM-)NO (TU-)NO (TCS-)NO 1-5,7,9-12 (THC-)	L(THC-)	U(THC-)	B/G	1		0		160	152	PAR COMB. (THC-), (TM-), (TCS-), (TU-)
TKO	AF132		6	61									0		34.5	32.5	WDG ALONE
							(TKAO)NO (TKBO)NO 9(RCEO) 9(RCE1) 11(TRKA) 1,2,3,7, 9,10(TKO)	L(TKO)	U(TKO)	B/G			0		119	113	PAR COMB.(TKO),(TKAO), (TKBO), STRAP CONTACT 8(TKO)
TK8, TK9	AF132		1	61									0		34.5	32.5	WDG ALONE
			6				(TKA-)NO (TKB-)NO 1-5,7,9-12 (TK-)	L(TK-)	U(TK-)	B/G	2		0		140	130	PAR COMB.(TK-),(TKA-),(TKB-) REL & (TK--) RES STRAP CONTACT, 8(TK-)
TKAO	AF132		6	61									0		34.5	32.5	WDG ALONE
							(TKO)NO (TKBO)NO 9(RCEO) 9(RCE1) 11(TRKA) 1,2,3,7,9, 10(TKAO)	L(TKAO)	U(TKAO)	B/G			0		119	113	PAR COMB(TKAO),(TKO),(TKBO) STRAP CONTACT 8(TKAO)
TKA8, TKA9	AF132		1	61									0		34.5	32.5	WDG ALONE
			6				(TK-)NO (TKB-)NO 1-5,7,9-12 (TKA-)	L(TKA-)	U(TKA-)	B/G	2		0		140	130	PAR COMB. (TKA-),(TK-),(TKB-) REL & (TK--) RES STRAP CONTACT 8(TK-)
TKBO	AF132		6	61									0		34.5	32.5	WDG ALONE
							(TKO)NO (TKAO)NO 9(RCEO) 9(RCE1) 11(TRKA) 11,12(TKBO)	L(TKBO)	U(TKBO)	B/G			0		119	113	PAR COMB. (TKBO),(TKO), (TKAO)
TKB8, TKB9	AF132		1	61									0		34.5	32.5	WDG ALONE
			6				(TK-)NO (TKA-)NO 11,12(TKB-)	L(TKB)	U(TKB)	B/G	2		0		140	130	PAR COMB. (TKB-),(TK-), (TKA-) REL & (TK--) RES
TM2-5 TM6,7	AF132	V	1,2	61									0		34.5	32.5	WDG ALONE
							(T-)NO (THC-)NO (TCS-)NO (TU-)NO 1-5,7,9-12 (TM-)	L(TM-)	U(TM-)	B/G	4		0		160	152	PAR COMB. (TM-), (THC-) (TCS-),(TU-)

TEST NOTES:

1. INSULATE CONTACTS ON (RCDO), (RCD1), (RCEO) AND (RCE1) AS FOLLOWS:
   - THC2-12(RCD-)
   - THC3-11(RCD-)
   - THC4-10(RCD-)
   - THC5- 9(RCD-)
   - THC6- 7(RCD-)
   - THC7-12(RCE-)
2. INSULATE CONTACTS ON (RCEO) AND (RCE1) AS FOLLOWS:
   - TK8-11
   - TK9-10
3. PARALLEL COMBINATION (TEB0), (TEB1), (TEB2) AND (TEB3).
4. INSULATE CONTACTS ON (RCDO), (RCD1), (RCEO) AND (RCE1) AS FOLLOWS:
   - TM2 12(RCD-)
   - TM3 11(RCD-)
   - TM4 10(RCD-)
   - TM5 9(RCD-)
   - TM6 7(RCD-)
   - TM7 12(RCE-)

PBX SYSTEMS
NO. 756A
LINE, LINK AND MARKER CIRCUIT

BELL TELEPHONE LABORATORIES, INC

SD-65741-01-F9

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CIRCUIT REQUIREMENTS

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APPARATUS DESIG	APPARATUS CODE	APPARATUS OPTION	APPARATUS FIG.	MECH REQT BBP FIG.	MECH REQT CONT PRESS.	MECH REQT ARM. TRVL.	CIRCUIT PREPARATION BLOCK OR INSULATE	CIRCUIT PREPARATION TEST CLIP DATA CONN BAT.	CIRCUIT PREPARATION TEST CLIP DATA CONN GRD	TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT TEST WDG	DIRECT CURRENT FLOW REQT TEST FOR	DIRECT CURRENT FLOW REQT AFTER SOAK MA.	DIRECT CURRENT FLOW REQT TEST MA.	DIRECT CURRENT FLOW REQT READJ MA.	REMARKS
TMA	AG8		10	448			(TOA)NO (MTA)NO	L(TMA)	U(TMA)	B/G			0	20	7.7	7.3	
								L(TMA)	U(TMA)	B/G			H	20	1.1	1	
								L(TMA)	U(TMA)	B/G			R	20	.5	.7	
TMB	AG8		10	448			(TOB)NO (MTB)NO	L(TMB)	U(TMB)	B/G			0	20	7.7	7.1	
								L(TMB)	U(TMB)	B/G			H	20	1.1	1	
								L(TMB)	U(TMB)	B/G			R	20	.5	.7	
TOA	AG2		10	368			(TAA)NO (MTA)NO 8(TOA)	L(TOA)	U(TOA)	B/G			0	36	12.4	11.8	
								L(TOA)	U(TOA)	B/G			H	36	2.1	2.0	
								L(TOA)	U(TOA)	B/G			R	36	1.1	1.4	
TOAL	AF85		11	401			3(TOAL)		U(TOAL)	GRD			0		36	34	
									U(TOAL)	GRD			NO		22	23.5	
									U(TOAL)	GRD			R		9.9	10.5	
TOALA	AF85		11	401			3(TOALA)		U(TOALA)	GRD			0		36	34	
									U(TOALA)	GRD			NO		22	23.5	
									U(TOALA)	GRD			R		9.9	10.5	
TOB	AG2		10	368			(TAB)NO (MTB)NO 10(TOB)	U(TOB)	L(TOB)	B/G			0	36	12.4	11.8	
								U(TOB)	L(TOB)	B/G			H	36	2.1	2.0	
								U(TOB)	L(TOB)	B/G			R	36	1.1	1.4	
TOKA	AF64		10	219			(TAAL)0 4,5 (TOKA)	L(TOKA)	U(TOKA)	B/G			0		11.2	10.6	STRAP CONTACTS 3 AND 5 (TOKA)
TOKB	AF64		10	219			(TAAL)0 4,5 (TOKB)	L(TOKB)	U(TOKB)	B/G			0		11.2	10.6	STRAP CONTACTS 3 AND 5(TOKB)
TOLA	AF9		10	213			(TOKA)NO (TOKB)NO 10(TOLA)	L(TOLA)	U(TOLA)	B/G			0		8.7	8.2	
TOLB	AF9		10	213			(TOKA)NO (TOKB)NO 10(TOLB)	L(TOLB)	U(TOLB)	B/G			0		8.7	8.2	
TP2-5 TP6,7	AF77	V	4	8			(T-)NO 1,2,3 (TP-)	1L(TP-)	1U(TP-)	B/G		P	0		49	46.5	
								2L(TP-)	2U(TP-)	B/G		S	0		44	41.5	
TRO, TR1	AJ12		4	220			(TRA-)0 2,3,4,5, 7,9(TR-)	L(TR-)	U(TR-)	B/G			0		42.5	40.5	STRAP CONTACTS 3,5,7 AND 9(TR-)
TRA	AG21		10	282B			(MTA)NO (RCKA)O	1L(TRA)	1U(TRA)	B/G	2,3	P	O		48.5	46	
								1L(TRA)	1U(TRA)	B/G		P	H		6.	5.7	
								1L(TRA)	1U(TRA)	B/G		P	R		3.9	4.6	
TRAO TRA1	AJ31		4	36			(TR-)NO 10(TRA-)	L(TRA-)	U(TRA-)	B/G			0		14.4	13.7	
TRAL	AF28		11	400B			4(TRAL)		U(TRAL)	GRD			0		27.5	26	
									U(TRAL)	GRD			R		10.3	10.9	
TRB	AG21		10	282B			(MTB)NO (RCKB)O	1L(TRB)	1U(TRB)	B/G	2,3	P	O		48.5	46	
								1L(TRB)	1U(TRB)	B/G		P	H		6	5.7	
								1L(TRB)	1U(TRB)	B/G		P	R		3.9	4.6	
TRC0, TRC1	AF132		6	61									0		34.5	32.5	WDG ALONE
							(TR-)NO (TRM-)NO (TRU-)NO	L(TRC-)	L(TRC.)	B/G	1		0		119	113	PAR COMB. (TRC-), (TRM-) (TRU-)

TEST NOTES:

1. INSULATE CONTACTS 1,2,3,4 AND 5 ON (TRCO). INSULATE CONTACTS 7,9,10,11 AND 12 ON (TRC1).
2. PRIMARY TEST, REQUIREMENTS APPLY TO PRIMARY WINDING WITH SECONDARY WINDING SHORT-CIRCUITED.
3. ARMATURE BACK TENSION MAX 60 GRAMS READJUST, 65 GRAMS TEST.

PBX SYSTEMS
NO. 756A
LINE, LINK AND MARKER CIRCUIT

BELL TELEPHONE LABORATORIES, INC

DRG SIZE 6S

SD-65741-01-F9

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CIRCUIT REQUIREMENTS

DRAWING ISSUE: 1 P.C. M.R. | 2B T.C.C. F&S. | 33D FED R-H-P

APPARATUS DESIG	APPARATUS CODE	APPARATUS OPTION	APPARATUS FIG.	MECH REQT BSP FIG.	MECH REQT CONT PRESS.	MECH REQT ARM. TRVL.	CIRCUIT PREPARATION BLOCK OR INSULATE	CIRCUIT PREPARATION TEST CLIP DATA CONN BAT.	CIRCUIT PREPARATION TEST CLIP DATA CONN GRD	TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT TEST WDG	DIRECT CURRENT FLOW REQT TEST FOR	DIRECT CURRENT FLOW REQT AFTER SOAK MA.	DIRECT CURRENT FLOW REQT TEST MA.	DIRECT CURRENT FLOW REQT READJ MA.	REMARKS
TRCA	AJ15		7	249			(TRKA)NO (TRCAA) NO (HMTAA)NO 3,8(TRCA)	L(TRCA)	U(TRCA)	B/G			0		42.5	40.5	WDG ALONE
													0		58	55	PAR COMB. (TRCA) & (TRCAA) STRAP CONTACTS 2, AND 4(TRCA)
TRCAA	AF64		7	219									0		11	10.6	WDG ALONE
							(TRKA)NO (TRCA)NO 1,2,4,5,8,10, 11(TRCAA)	L(TRCAA)	U(TRCAA)	B/G			0		58	55	PAR COMB. (TRCAA) & (TRCA) STRAP CONTACTS 3,9,12(TRCAA)
TRCB	AJ15		7	249									0		42.5	40.5	WDG ALONE
							(TRKB)NO (TRCBA) NO (HMTBA)NO 3,8(TRCB)	L(TRCB)	L(TRCB)	B/G			0		58.	55	PAR COMB. (TRCB) & (TRCBA) STRAP CONTACTS 4,7 (TRCB)
TRCBA	AF64		7	219									0		11	10.6	WDG ALONE
							(TRKB)NO (TRCB)NO 1,2,4,5,8,10, 11(TRCBA)	L(TRCBA)	U(TRCBA)	B/G			0		58	55	PAR COMB. (TRCBA) & (TRCB) STRAP CONTACTS 3,9,12(TRCBA)
TRKA	AF88		7	42									0		33.5	31.5	WDG ALONE
							(JREA)NO 11(TRCA) 4(TRKA) (TRKAA) NO	L(TRKA)	U(TRKA)	B/G			0		74.5	71	PAR COMB. (TRKA) & (TRKAA) STRAP CONTACTS 3,5,7,9 AND 11 (TRKA)
TRKAA	AJ12		7	220									0		42.5	40.5	WDG ALONE
							(JREA)NO 11(TRCA) 4,12 (TRKAA) (TRKA)NO	L(TRKAA)	U(TRKAA)	B/G			0		95	90	PAR COMB. (TRKAA) & (TRKA) STRAP CONTACT 7 (TRKAA)
TRKB	AF88		7	42									0		33.5	31.5	WDG ALONE
							(JREB)NO 9(TRCB) 4(TRKB) (TRKBA) NO	L(TRKB)	U(TRKB)	B/G			0		74.5	71	PAR COMB. (TRKB) & (TRKBA) STRAP CONTACTS 3,5,9 AND 11 (TRKB)
TRKBA	AJ12		7	220									0		42.5	40.5	WDG ALONE
							(JREB)NO (TRKB)NO 9(TRCB) 4,12(TRKBA)	L(TRKBA)	U(TRKBA)	B/G			0		95	90	PAR COMB. (TRKBA) & (TRKB) STRAP CONTACTS 3 AND 9(TRKBA)
TRLA	AJ12		9,22	220			(ZLG)NO 1,2,3,4,5,6,7, 9,10,11,12 (TRLA)	L(TRLA)		BAT.			0		42.5	40.5	STRAP CONTACTS 1,2,3,4,6,7,9,10, 11,12 (TRLA)
TRLB	AJ12		9,22	220			(ZLG)NO 1,2,3,4,5,6,7, 9,10,11,12 (TRLB)	L(TRLB)		BAT.			0		42.5	40.5	STRAP CONTACTS 1,2,3,4,6,7,9,10, 11,12 (TRLB)
TRMO, TRM1	AF132		6	61			(TR-)NO (TRU-)NO (TRC-)NO	L(TRM-)	U(TRM-)	B/G	1		0		34.5	32.5	WDG ALONE
													0		119	113	PAR COMB. (TRM-), (TRU-), TRC-)

1. INSULATE CONTACTS 1,2,3,4,5,7 AND 9 (TRMO). INSULATE CONTACTS 1,7,9,10,11 AND 12 (TRM1).

LINE, LINK AND MARKER CIRCUIT — SD-65741-01-F10

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E-7488 (5-64)

SD-65741-01-F10

CIRCUIT REQUIREMENTS

DRAWING ISSUE: 1 | 2B | 33D

APPARATUS DESIG	APPARATUS CODE	APPARATUS OPTION	APPARATUS FIG.	MECH REQT BSP FIG.	MECH REQT CONT PRESS	MECH REQT ARM. TRVL	CIRCUIT PREPARATION BLOCK OR INSULATE	CIRCUIT PREPARATION TEST CLIP DATA CONN BAT.	CIRCUIT PREPARATION TEST CLIP DATA CONN GRD	TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT TEST WDG	DIRECT CURRENT FLOW REQT TEST FOR	DIRECT CURRENT FLOW REQT AFTER SOAK MA.	DIRECT CURRENT FLOW REQT TEST MA.	DIRECT CURRENT FLOW REQT READJ MA.	REMARKS
TRPO, TRP1	AF77		4	8-			(TR-)NO 1,2,3 (TRP-)	1L(TRP-) 2L(TRP-)	1U(TRP-) 2U(TRP-)	B/G B/G		P S	0 0		49 44	46.5 41.5	
TRUO, TRU1	AF132		6	61									0		34.5	32.5	WDG ALONE
							(TR-)NO (TRM-)NO (TRC-)NO	L(TRU-)	U(TRU-)	B/G	4		0		119	113	PAR COMB. (TRU-), (TRM-), (TRC-)
TS	AF10		8	214			(TSDA)O 2(TS)		U(TS)	GRD			0		7.6	7.2	
TSDA	AJ12		8	220			(TEA1)NO		U(TSDA)	GRD			0		42.5	40.5	
TSDB	AJ12		8	220			(TEB1)NO		U(TSDB)	GRD			0		42.5	40.5	
TT	AJ19		8	41				1L(TT) 2L(TT)	1U(TT) 2U(TT)	B/G B/G		P S	0 0		29.5 27.5	28 26	
TU2-5	AF132		1,2	61									0		34.5	32.5	WDG ALONE
TU6,7		V					(T-)NO (TM-)NO (TCS-)NO (THC-)NO 1,2,3,4,5,7,9, 10,11,12(TU-)	L(TU-)	U(TU-)	B/G			0		160	152	PAR COMB. (TU-), (TM-), (THC-), (TCS-)
UO-U9	1/2 AK2		7							GRD	1,2,3		0		15.5	14.5	
UAL	AF85		11	401			3(UAL)		U(UAL)	GRD			0		36	34	
									U(UAL)	GRD			NO		22	23.5	
									U(UAL)	GRD			R		9.9	10.5	
UAL1	AF85		11	401			3(UAL1)		U(UAL1)	GRD			0		36	34	
									U(UAL1)	GRD			NO		22	23.5	
									U(UAL1)	GRD			R		9.9	10.5	
UAL1A	AF85		11	401			3(UAL1A)		U(UAL1A)	GRD			0		36	34	
									U(UAL1A)	GRD			NO		22	23.5	
									U(UAL1A)	GRD			R		9.9	10.5	
UAL2	AF85		11	401			3(UAL2)		U(UAL2)	GRD			0		36	34	
									U(UAL2)	GRD			NO		22	23.5	
									U(UAL2)	GRD			R		9.9	10.5	
UEA	AF55		7	26			10(TACB) 10(TACA) 24(RPA1) 24(RPAO) 2,3,5,9, (UEA)	L(UEA)	U(UEA)	B/G			0		37	35	STRAP CONTACTS 6 AND 7 (UEA)
UEB	AF55		7	26			9(TACB) 9(TACA) 23(RPA1) 23(RPAO) 2,3,5,9, (UEB)	L(UEB)	U(UEB)	B/G			0		37	35	STRAP CONTACTS 7 AND 8 (UEB)
ULA	AF132		7	61			12(TACA) 12(TACB) 8(UEB) 1,2,3,4, 5,7,9, 10,11,12 (ULA)	L(ULA)	U(ULA)	B/G			0		34.5	32.5	

TEST NOTES:

1. INSULATE CONTACTS ON (LUCA), (LUCB), (RUCA) AND (RUCB) AS FOLLOWS:

REL	LUC(A,B)	RUC(A,B)	REL	LUC(A,B)	RUC(A,B)
U0	1	1	U5	7	7
U1	2	2	U6	9	9
U2	3	3	U7	10	10
U3	4	4	U8	11	11
U4	5	5	U9	12	12

2. INSULATE CONTACTS 1,2,3,4 AND 5 AND CONNECT GRD TO 1L ON U1, U3, U5, U7 AND U9. INSULATE CONTACTS 8,9,10,11 AND 12 AND CONNECT GRD TO 1U ON U0, U2, U4, U6 AND U8.
3. U0 MOUNTED WITH U1, U2 MOUNTED WITH U3, U4 MOUNTED WITH U5, U6 MOUNTED WITH U7, U8 MOUNTED WITH U9.
4. INSULATE CONTACTS 1,2,3,4,5,7 AND 9 (TRUO). INSULATE CONTACTS 1,7,9,10,11, AND 12 (TRU1).

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LINE, LINK AND MARKER CIRCUIT (2) — SD-65741-01-F1

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CIRCUIT REQUIREMENTS

APPARATUS DESIG	APPARATUS CODE	APPARATUS OPTION	APPARATUS FIG.	MECH REQT BSP FIG.	MECH REQT CONT PRESS	MECH REQT ARM TRVL	CIRCUIT PREPARATION BLOCK OR INSULATE	CIRCUIT PREPARATION TEST CLIP DATA CONN BAT.	CIRCUIT PREPARATION TEST CLIP DATA CONN GRD	TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT TEST WDG	TEST FOR	AFTER SOAK MA.	TEST MA.	READJ MA.	REMARKS
ULB	AF132		7	E1			11 (TACA) 11 (TACB) 1,2,3,4, 5,7,9, 10,11,12 (ULB) 6(UEB)	L(ULB)	U(ULB)	B/G			0		34.5	32.5	
WIL	AJ3		9,22	226									0		18	17	WDG ALONE
							1(WL) 6(WIL) 4(ZIL) (ZIL)NO		U(WIL)	GRD			0		39	37	PAR COMB. (WIL) & (ZIL)
WILA	1/2AK7		9,22	203			(WIL)NO (ZIL)NO 8(WILA)		2U(WILA)	GRD			0		27	25.5	MOUNTED WITH (WLGA)
													NO		10.4	11	
WL	AJ3		9,22	226									0		18	17	WDG ALONE
							4(LTAA) 4(LTBA) 6(WL) 4(ZL) (ZL)NO 1(WL)		U(WL)	GRD			0		39	37	PAR COMB. (WL) & (ZL)
WLA	1/2AK7		9,22				(WL)NO (ZL)NO 5(WLA)		2L(WLA)	GRD			0		27	25.5	MOUNTED WITH (WUA)
													NO		10.4	11	
WLG	AF98		9,22	245			2(WLGA) 4,10(WLG)		U(WLG)	GRD			0		14.8	14.1	
WLGA	1/2AK7		9,22	203			(WLG)NO (ZLG)NO		1L(WLGA)	GRD			0		27	25.5	MOUNTED WITH (WLA)
													NO		10.4	11	
WU	AF98		9,22	245									0		14.8	14.1	WDG ALONE
							4,6(WU) 1(ZU) (ZU)NO		U(WU)	GRD			C		25	23.5	PAR COMB. (WU) & (ZU) "B" OPT
									U(WU)	GRD			0		34	32	PAR COMB. (WU) & (ZU) "A" OPT
WUA	1/2AK7		9,22	203			(WU)NO (ZU)NO 8(WUA)		2U(WUA)	GRD			0		27	25.5	MOUNTED WITH (WLA)
													NO		10.4	11	
XC	AF96		22	46			4,6,8(XC) (COAA)NO (COBA)NO		1U(XC)	GRD		P	0		99.8	95	
									1U(XC)	GRD		P	NO		80.8	85	
XCAL	1/2AK24	WT	11	12			8,9,12(XCAL)		2U(XCAL)	GRD			0		7.8	7.4	MOUNTED WITH COAL
ZIL	AF110		9,22	272									0		16.5	15.5	WDG ALONE
							(WIL)NO 6(WIL) (WL)NO 4(ZIL)		U(ZIL)	GRD			0		36	34	PAR COMB. (ZIL) & (WIL)

DRAWING ISSUE

1	PC
2B	A.R.T. RD
8B	M.G. F.G.S.
9B	V.Z. M.S. PD
33D	FED RHP

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LINE, LINK AND MARKER CIRCUIT

BELL TELEPHONE LABORATORIES, INC

SD-65741-01-FII

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CIRCUIT REQUIREMENTS

APPARATUS DESIG	APPARATUS CODE	APPARATUS OPTION	APPARATUS FIG.	MECH REQT BSP FIG.	MECH REQT CONT PRESS	MECH REQT ARM TRVL	CIRCUIT PREPARATION BLOCK OR INSULATE	CIRCUIT PREPARATION TEST CLIP DATA CONN BAT.	CIRCUIT PREPARATION TEST CLIP DATA CONN GRD	TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT TEST WDG	TEST FOR	AFTER SOAK MA.	TEST MA.	READJ MA.	REMARKS
ZL	AF98		9,22	245									0		14.8	14.1	WDG ALONE
							(WL)NO 6(WL) 4(ZL)		U(ZL)	GRD			0		33	31	PAR COMB. (ZL) & (WL)
ZLG	AF98		9,22	245									0		14.8	14.1	WDG ALONE
							2,6(ZLG) (WLG)NO (WLGA)NO	L(ZLG)		BAT			0		33	31	PAR COMB. (ZLG) & (WLG)
ZU	AJ5	B	9	220									0		13.3	12.6	WDG ALONE
							1,2,4,6,8,9, 10,11,12(ZU) (WU)NO 6(WU)		U(ZU)	GRD			0		42	40	PAR COMB. (ZU) & (WU). STRAP CONTACTS 2,4,6,8,9,10,11,&12(ZU)
ZU	AJ39	A	9,22	220									0		18.5	17.5	WDG ALONE
							1,2,4,6,8,9, 10,11,12(ZU) (WU)NO 6(WU)		U(ZU)	GRD			0		41	39	PAR COMB. (ZU) & (WU). STRAP CONTACTS 2,4,6,8,9,10,11,&12(ZU)

DRAWING ISSUE

1	P.C. M.R.
2B	A.R.T. RD
8B	M.G. F.G.S.
9B	V.Z. M.S. PD
33D	FED RHP

(22 PAGES) PAGE 22

LINE, LINK AND MARKER CIRCUIT

BELL TELEPHONE LABORATORIES, INC

DWG SIZE 6S

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SHEET INDEX

| CONTENTS | SHEET NO. | ISSUE NO. | | |

APPARATUS INDEX

DESIG	LOCATION FS	APP FIG.	EQPT
RELAYS			
A[illegible]	7D7	2	6(G,H)
BY	1B3	1	6(C,F)
COT	4C0	2	6(B,E)
D[illegible]	3F5	3	6(A,D)
H[illegible]	6D4	2	6(B,E)
[illegible]	1G0,6D5	2	6(B,E)
L[illegible]	1F2	3	6(A,D,)
O[illegible]	1F8	2	6(B,E)
Q[illegible]	3E9	3	6(A,D)
P[illegible]	2B6	1	6(C,F)
P[illegible]	2C6	1	6(C,F)
H[illegible]	2E2,2F2	1	6(C,F)
P[illegible]	2D6	1	6(C,F)
P[illegible]	2G6	1	6(C,F)
P[illegible]	2H6	1	6(C,F)
P[illegible]	6D2,7D3	4	6(G)
P[illegible]	6H2,7G3	4	6(H)
PU	1A1	2	6(B,E)
RA	1E6	1	6(C,F)
RRLA	1B5	2	6(B,E)
RRLB	1C5	2	6(B,E)
RT	1D3	2	6(B,E)
SV	1A5	1	6(C,F)
S[illegible]	8A3	5	6(G,H)
T[illegible]	1G3	2	6(B,E)
T[illegible]R	3F7	3	6(A,D)
T[illegible]	3H0	3	6(A,D)
TD1,2,3,4,5	3B5	3	6(A,D)
TD6,7,8,9,0	3E5	3	6(A,D)
TLA	4C0	2	6(B,E)
TLD	4A0	2	6(B,E)
TMO	1C1	2	6(B,E)
TR	3E7	3	6(A,D)
TT[illegible]	4B0	2	6(B,E)
U[illegible]	3F8	3	6(A,D)
UD1,2,3,4,5	5C1	3	6(A,D)
UD6,7,8,9,0	5C4	3	6(A,D)

CAPACITORS			
C[illegible]	8C3	5	6(B,E)
L[illegible]	1D3	1	6(C,F)
P[illegible]	1F3	3	6(A,D)
T[illegible]	8B3	5	6(A,D)
TN	1E4	1	6(C,F)

CONNECTOR			
A	8E9	8	
J1	8F3	9	1(U,V)

DIODE			
KP	3H0	3	
KRA	3F7	2	
SD	8A1	7	
SDA	8B3	5	
TM	3G5	3	
Z	8B2	5	

DESIG	LOCATION FS	APP FIG.	EQPT
JACKS			
TST	1C3	1	6(C,F)

LAMPS.			
RT	4E9	2	6(B,E)

POTENTIOMETERS			
R	8B2	5	

REPEATING COILS			
TN	1D3	1	6(C,F)

RESISTOR			
DT	1E4	8,9	
H	1C0	1	6(C,F)
L	1F2	3	6(A,D)
LW	1G3	1	6(C,F)
LW	1D3	1	6(C,F)
P1	2B4	1	6(C,F)
P2	2C3	1	6(C,F)
RB	8C2	5	6(A,D)
RC	8B3	5	6(A,D)
RE	8B2	5	6(A,D)
RF	8B2	5	6(A,D)
S	1D0	1	6(C,F)
T	1D1	1	6(C,F)
TN	1E3	1	6(C,F)

TRANSISTORS			
T	8B3	6	

LEAD INDEX

DESIG	FS LOC
LINE, LINK AND MARKER CIRCUIT	
A	8F0
B	8E0
BAT.	1G5
BY	1B3
C	8D0
COT	4C2
CPC	4E7
CTA	4E2
CTB	4E2
D	8D0
DC1	4D8
DC2	4D7
DC3	4D8
DC4	4D7
E	8G0
F	8F0
G	8H0
H	8G0
JTA	4A7
JTB	4B7
KPC0	7D9
KPC1	7D9
ON	4D2
ONB	4D2
ONG	4D3
PCG	4F7
R	1C0
RA	1B5
RA1	1B5
RB	1B5
RB1	1C5
RCTA	4B7
RCTB	4C7
RHM	1G4
RRA	1B8
RRB	1C8
RRT	4B2
RV	1A8
S	1D0
T	1C0
TO	3C9
T2-T9	3C9
TLA	4C2
TLD	4A2
TLO	4G2
TL1	4G2
TPC	4E7
TRO	4F0
TR1	4F2
TTO	4H1
TT1	4H1
UO-U9	3G4, 5E3

ALARM TRANSFER AND TEST CIRCUIT	
PL	4G5
PLB	4H5
RT	4H5
RT1	4H5

C.O. TRK CIRCUIT	
LD	8D1, 8F1, 8G1, 8H1

DESIG	FS LOC
CORDLESS POSITION CIRCUIT	
ARB	7E2
H1	7D2, 7H2
HA	7E2
HA1	3F9
HA2	3F9
KPO-KP9	6C1, 6G1
KRAO	6D1
KRA1	6H1
SG2	6D1, 6H1, 7D2, 7H2
SG3	6D1, 6H1, 7D2, 7H1
T2-T8	7B2, 7F2
UO-U9	7C2, 7G2

DIRECT STATION SELECTION CONNECTOR AND CONTROL CIRCUIT FOR STATIONS	
PR	3G9
RO	1F3
RI	1F3
RB	1F3
RC	1F3
RG	1F3
TO	3D0
T2-T9	3D0
UO-U9	5A3
UD1	3G9
UD2	3F9

POWER SUPPLY CIRCUIT	
BT	1E5
DT	1E5
MS	1B0
PU	1B0
TM	1B0

DESIG	FS LOC
SIGNALING CIRCUIT TONE GEN FOR PBX "TOUCH-TONE CALLING	
TT1	1D5

"TOUCH-TONE" CALLING RECEIVING CKT TYPE A2 OR A3	
-48	8G3
GRD	
HG(1-3)	
LG(1-4)	
R	
STR	
T	

"TOUCH-TONE" CALLING RECEIVING CKT TYPE C1	
-48	8D8, 8E9
A	
B	
O(0-9)	
GRD	
P	
R	
STR	
T	

MAKE BUSY AND BUSY DISPLAY CIRCUIT	
MB	1H3
RHM	1H3

OPTION INDEX

APP OR WIR	LOCATION
5	APP FIG. 5, 5B6
6	APP FIG. 6
7	APP FIG. 7
9	APP FIG. 9
Z	3C9
Y	3C7, 3C8
X	3C7, 3C8
W	3C7
V	3E8
T	3E8
S	4A1
R	2E5, 3G1, 3G5, 3H0, 3H1
Q	APP FIG. 2, 3, 4, 3A0, 3G4, 7D8, 3F4, 5D4
N	4B1
M	4B0, 4B1
K	APP FIG. 2
J	APP FIG. 2
H	2B5
G	[illegible]
F	1A0
E	1A0
B	3F7
A	3F7
ZA	3H4, 3H5
ZB	APP FIG. 2, 3, 4, 3A0, 3F8, 3G4, 3G8, 3H4, 3H5, 7D8, 3G6, 5D4
ZC	8C1
ZD	1E3
ZE	1E3, 3F0, 3F8, 3G9, 5A6
ZF	1F8, 1G4
ZG	1F8, 1G4
ZH	1B6, 1C6
ZI	3C7
ZJ	1D0, 1E0, 1F0
ZK	3C7
ZL	3G0
ZM	3A0
ZN	APP FIG. 1, 1D3
ZO	1C0
ZP	3G0
ZQ	3E7
ZR	3E8
ZS	8G0
ZT	7D2
ZU	1D3
ZV	1D3
ZW	1E4
ZX	APP FIG. 1
ZY	APP FIG. 1, 8 & 9
ZZ	APP FIG. 5, 8C3
YA	APP FIG. 5, 8C3
YB	3F4
YC	APP FIG. 3, 3F4
YD	3F7
YE	APP FIG. 2, 3F7
YF	1E5
YG	1E5
YH	APP FIG. 1, 1E4
YI	8F8
YJ	8F8

APP OR WIR	LOCATION
YK	APP FIG. 3, 8A8-8H8
YL	APP FIG. 8, 8A8-8H8
YM	8B2
YN	APP FIG. 5, 8B2
YO	1E1
YP	1D1 APP FIG. 1
YQ	4H1
YT	APP FIG. 3, 3H0
YU	APP FIG. 3, 3H0
YV	APP FIG. 5, 8B2, 8B3
YW	APP FIG. 5, 8B2, 8B3
YX	APP FIG. 7, 8A1
YY	APP FIG. 7, 8A1
YZ	4G1, 4G2
XA	1A6, 1A6
XB	1A5, 1A6, 4E1, 4G1, 4G2
XC	4H1
XD	4H1
XE	1G3, 1G4
XF	1D2, 1G3, 1G4, 1H4
XG	1A2, 1G3, 8A7, 8B1, 8F3
XH	1A2, 1G3, 3G6, 8A7, 8B1, 8F3
XI	4D1
XJ	3H7, 4D1
XK	8B1, 8C1

DRAWING ISSUE
SUPER SEDES ISS 23AC HW

24B	OPT	BAN
		GFH
25D	45A OPT	BAN
		GFH
26D		FEL
		PJS
27D		RHF
		PMC
		PJS
		RHF
28A		TEF
		PJS
		RHF
29B		FOZ
		PJS
		LDJ

29

DIAL PULSE REGISTER CIRCUIT (2)

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FS 1
TIP AND RING CONTROL

TO POWER SUPPLY CIRCUIT

TO LINE, LINK AND MARKER CIRCUIT

LINE, LINK AND MARKER CIRCUIT

LINE, LINK AND MARKER CIRCUIT

POWER SYSTEMS SIGNALING CIRCUIT 404C T.G

PWR SUP CIRCUIT

TO AUXILIARY RELAY CIRCUIT FOR DIRECT STATION SELECTION BY STATIONS

MAKE BUSY AND BUSY DISPLAY CIRCUIT

LINE, LINK AND MARKER CIRCUIT

DRAWING ISSUE	
1	J.C. FGS
2B	PJH CMG R.M.C. LGK
3D	R.M.C. LGK
5B	FJS VMB
8D	VS R.R.
10B	ES MA POB
11B	JAM WWH PD
12AC	JAM WWH PD
17B	EG WWH PD
18B	R.T. KB P.D.
19B	JJG SJF PD
21B	WWH SAK KFJ
22D	RKU SAK
WORN DRAWING REPRODUCED WITHOUT CHANGE 6-3-66	
24B	CWL SAK &FH
26D	FED PJS RHP
27D	PMC PJS RHP
29B	ROZ PJS LDJ

29

DIAL PULSE REGISTER CIRCUIT (2)

SD-65742-01-BI

BELL TELEPHONE LABORATORIES INCORPORATED

SIZE 6S

SD-65742-01-BI

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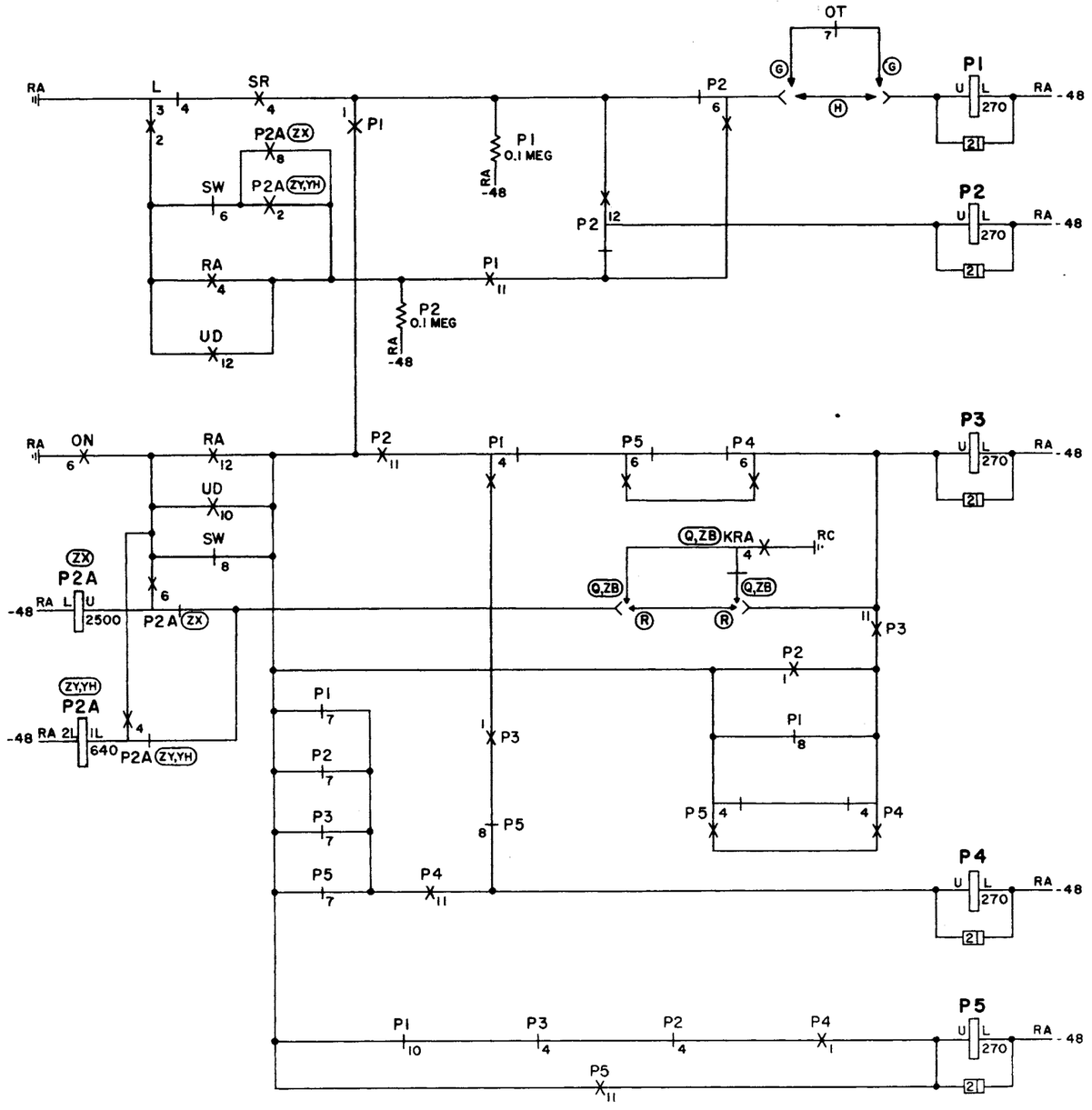
FS 2
PULSE COUNTING



DRAWING ISSUE		
1	J.C. FGS	
4B	E.M. VdS	T.E.B.
6D	LWC HP	P.O.B. P.O.B.
7B	O.L. N.F.	
10B	E.S. CRA POR	
18B	R.T. KB P.D.	
19B	JJG SJF PD	
22D	RKU SMK KFJ	

PBX SYSTEMS
NO. 756A
DIAL PULSE REGISTER CIRCUIT (2)

BELL TELEPHONE LABORATORIES INCORPORATED

DWG SIZE 6S

22

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SD-65742-01-B2

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PART OF FS 3
STEERING

TO AUXILIARY RELAY CIRCUIT FOR DIRECT STATION SELECTION BY STATIONS

TO LINE, LINK AND MARKER CIRCUIT

TO AUXILIARY RELAY CIRCUIT FOR DIRECT STATION SELECTION BY STATIONS

TO CORDLESS POSITION CIRCUIT

TO LINE, LINK & MKR CKT

5A3

8A0

8G3, 6B6, 6G6, 8D6 Q,ZM,9

7A8, 7F8

DIAL PULSE REGISTER CIRCUIT (2)

BELL TELEPHONE LABORATORIES INCORPORATED

SD-65742-01-B3

SD-65742-01-B3

DRAWING ISSUE

1	J.C. F&S	Lucas
48	C.M. J&S	T.E.B
60	L.M.C. K.V. V.S. M.R.	P.O.B.
8D		TEB
10B	E.S. CRA P.O.B.	
13D	P.C. J&S PD	
14D	RAH CHD POB	
16AC	L.J.L. WYH PD	
18B	R.T. K.B. P.D.	
19B	J.J.G. S.J.F. P.D.	
20B	R.W.P. SAK K.F.J.	HW
22D	R.K.U. SAK K.F.J.	
WORN DRAWING REPRODUCED WITHOUT CHANGE 6-3-66		
24B	L.R.T. SAK G.F.H.	
28A	T.E.F. F.J.S. R.H.P.	
29B	R.O.Z. P.J.S. L.D.J.	

29

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FS 4
CLASS OF SERVICE

LINE, LINK AND MARKER CIRCUIT

TLD RC U L 700 — TLD I, TLA 11, COT 11 (K) — RA-A
TT RC 1L 2L 960 — TR 9, TT 1, COT 9 — RTT — RA-A
TLA RC 1U 2U 960 — TLA 12, COT 11 (J) — TLA — RA-B
COT RC U L 2500 — COT 10 — COT — RA-A — -48
ON -48 — ON — (XJ) (XI) — ON 10 — RB -48
ONB — RA- — ONG — RT 5 — ON 6 — RA
ON -48 — ON 8 — -48
3H7

COTA: -48 RB — COT 1 — CTA — RPA- — COTA; IA5 RV (XB)
COTB: -48 RB — COT 2 — CTB — RPA- — COTB

RA — TT 2 — TRO — RCB- — TTO
RA — TT 3 — TRI — RCB- — TTI
COT 6,4 (YZ,XB) — RC — TLA 9 (YZ,XB) — TLO — RCB- — TLAO
COT 12 (YZ,XB) — RC — TLA 10 (YZ,XB) — TLI — RCB- — TLAI

(YQ) TTO — RCA- — TDM-
(XD) COT 6 (XC) (XD) — TT 5 — (YQ) TTI — TKB9 — -48; TKB8 — -48
MULT TO OTHER REGISTER

LINE, LINK AND MARKER CIRCUIT

-48 RC — DC 12 — OT 10 — TR 10 — COT 3 — TMO 5 — JTA — RPA- — JTA
-48 RB — TMO 9 — RCTA — RPA- — RCTA
OT 6 — TR 8 — COT 5 — TMO 12 — JTB — RPA- — JTB
RCTB — RPA- — RCTB
DC(2,4) — R-
DC(1,3) — TMO 10 — DC 2 — BY 9

TT 4 — TPC — RG-
COT 8 — CPC — RG-
PCG — RA-A

RT: -48 RB — 6 — RB; RT

FS 5
ALARM CONTROL

RT 4 — PL — TR — TR; PLB — TR — -48
DC 11 — RT — A2 — A3 — A4 — -48
RTI
ALM, TRANS & TST CIRCUIT

DRAWING ISSUE

1	JC FGS	WS
2B	PJS LHE	RAC
5B	FJS LHE	POB
6D	LMC HP	POB
10B	E.S. CRA POB	A NY
24B	CHG SAK GFH	HO
25D	CHG SAK GFH	HW
26D	FED PJS RHP	B
28A	TEP PJS RHP	

WORN DRAWING REPRODUCED WITHOUT CHANGE 9/28/67 JJR.

29B	ROZ PJS LDJ	C

29

DIAL PULSE REGISTER CIRCUIT (2)

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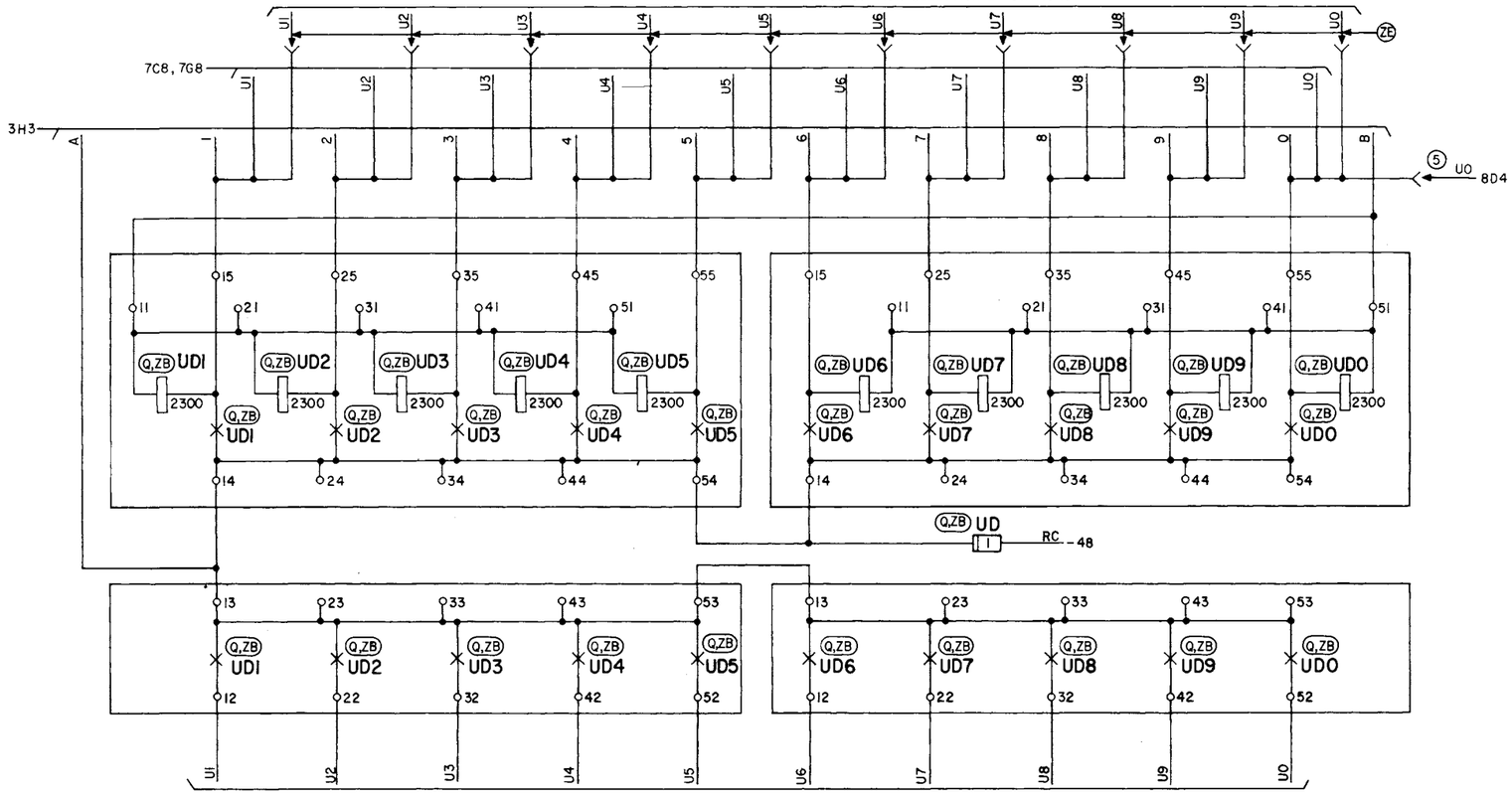
PART OF FS 3
STEERING

TO AUXILIARY RELAY CIRCUIT FOR DIRECT STATION SELECTION BY STATIONS



TO LINE, LINK AND MARKER CIRCUIT

DRAWING ISSUE

4B	CM JBC LM JHF
6D	ES CR PO
10B	CR SA GFI
24B	TEI RH
28A	

WORN DRAWING REPRODUCED WITHOUT CHANGE 9/28/67 J.J.R.

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28

DIAL PULSE REGISTER CIRCUIT (2)

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DWG SIZE 6S

SD-65742-01-B5

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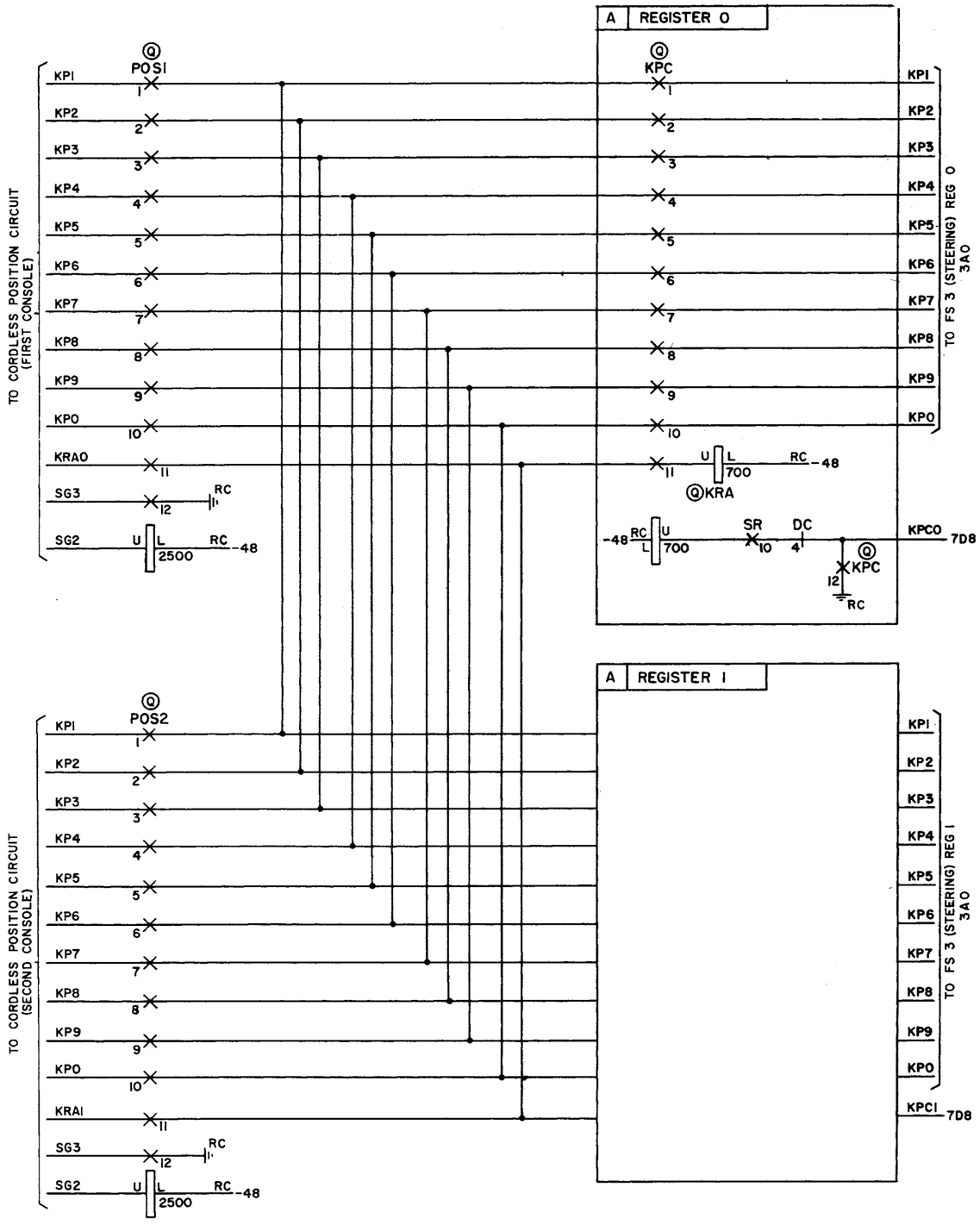
FS 6
KEY PULSING CONNECTOR
AND CONTROL CIRCUIT



PBX SYSTEMS NO. 756A DIAL PULSE REGISTER CIRCUIT	SD-65742-01-B6
BELL TELEPHONE LABORATORIES INCORPORATED	6S

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FS 7

ATTENDANT DIRECT STATION SELECTION
CONNECTOR AND CONTROL CIRCUIT

CORDLESS POSITION CIRCUIT

FIRST POSITION

ARB

RINGER

BZ

B JACK

ARB1

ARB2

TO 1ST ATT TRK HI

HA

SECOND POSITION

ARB

RINGER

BZ

B JACK

T2 T3 T4 T5 T6 T7 T8 U0 U1 U2 U3 U4 U5 U6 U7 U8 U9 HI SG3 SG2

A

(ZB) POSI

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

RC

U L 700 RC -48

REG I RT

REG O RT

(ZT) 8 2 ARB

(ZT) 8 2 RC -48

SR REG I

SR REG O

HA

A

(ZB) POS 2

B REGISTER O

(ZB) AC

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

T2 T3 T4 T5 T6 T7 T8 U0 U1 U2 U3 U4 U5 U6 U7 U8 U9

3AO

5AO

RC

48 RC L 700 U

SR 10

DC 4

KPCO

6D6

KPCO (Q) (ZB)

6H6 KPCI (Q) (ZB)

KPCI

LINE, LINK AND MARKER CIRCUIT

TRCO

TRCI

RGA

RGB

RAOA

RAIA

B REGISTER I

T2 T3 T4 T5 T6 T7 T8 U0 U1 U2 U3 U4 U5 U6 U7 U8 U9 KPCI

3AO

5AO

DRAWING ISSUE

108 KS CAA POS

130 PC LAS AP

178 EG WW PD

NO

17

PBX SYSTEMS
NO. 756A
DIAL PULSE REGISTER CIRCUIT (2)

SD-65742-01-B7

BELL TELEPHONE LABORATORIES INCORPORATED

6S

SD-65742-01-B7

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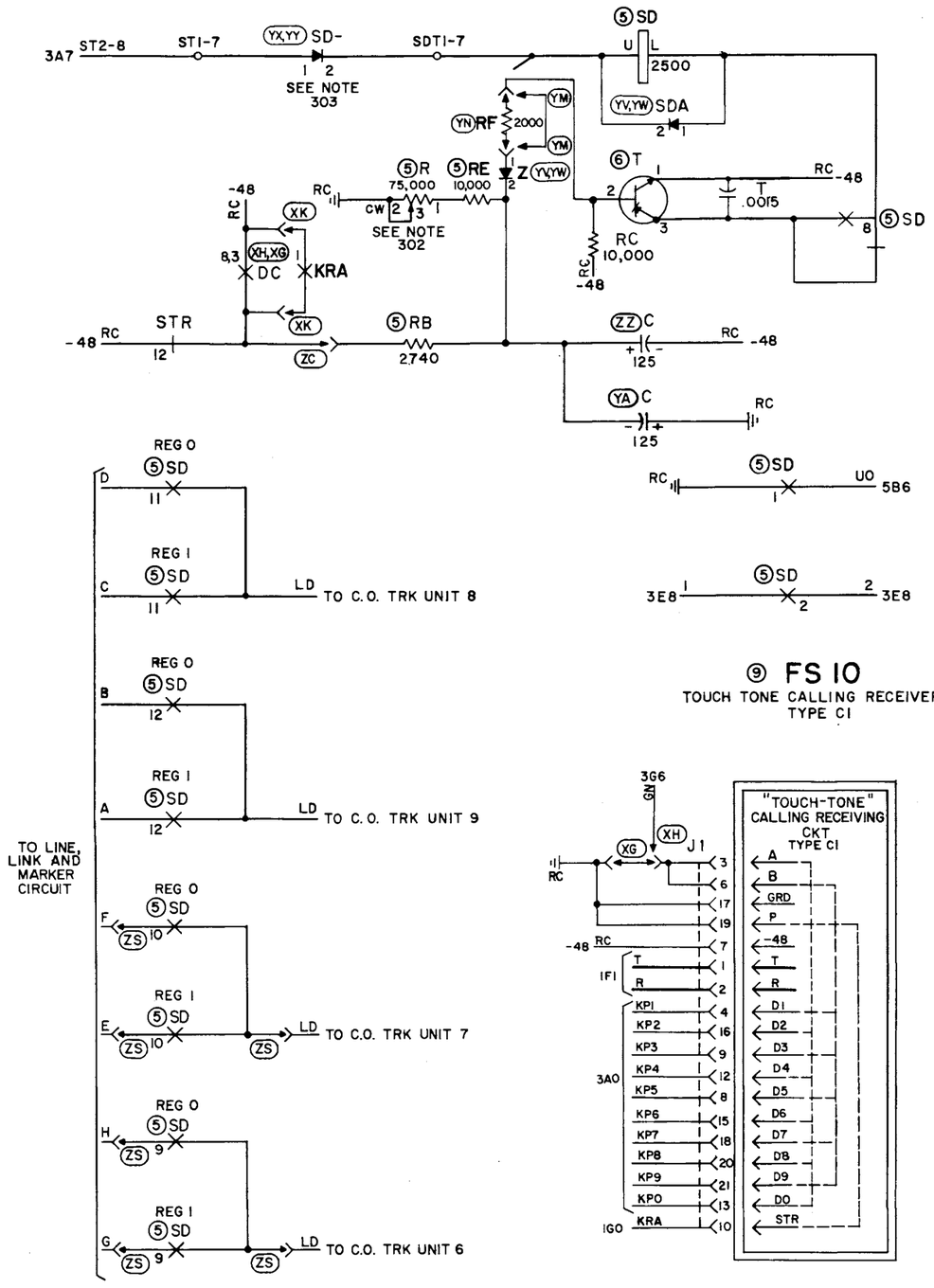
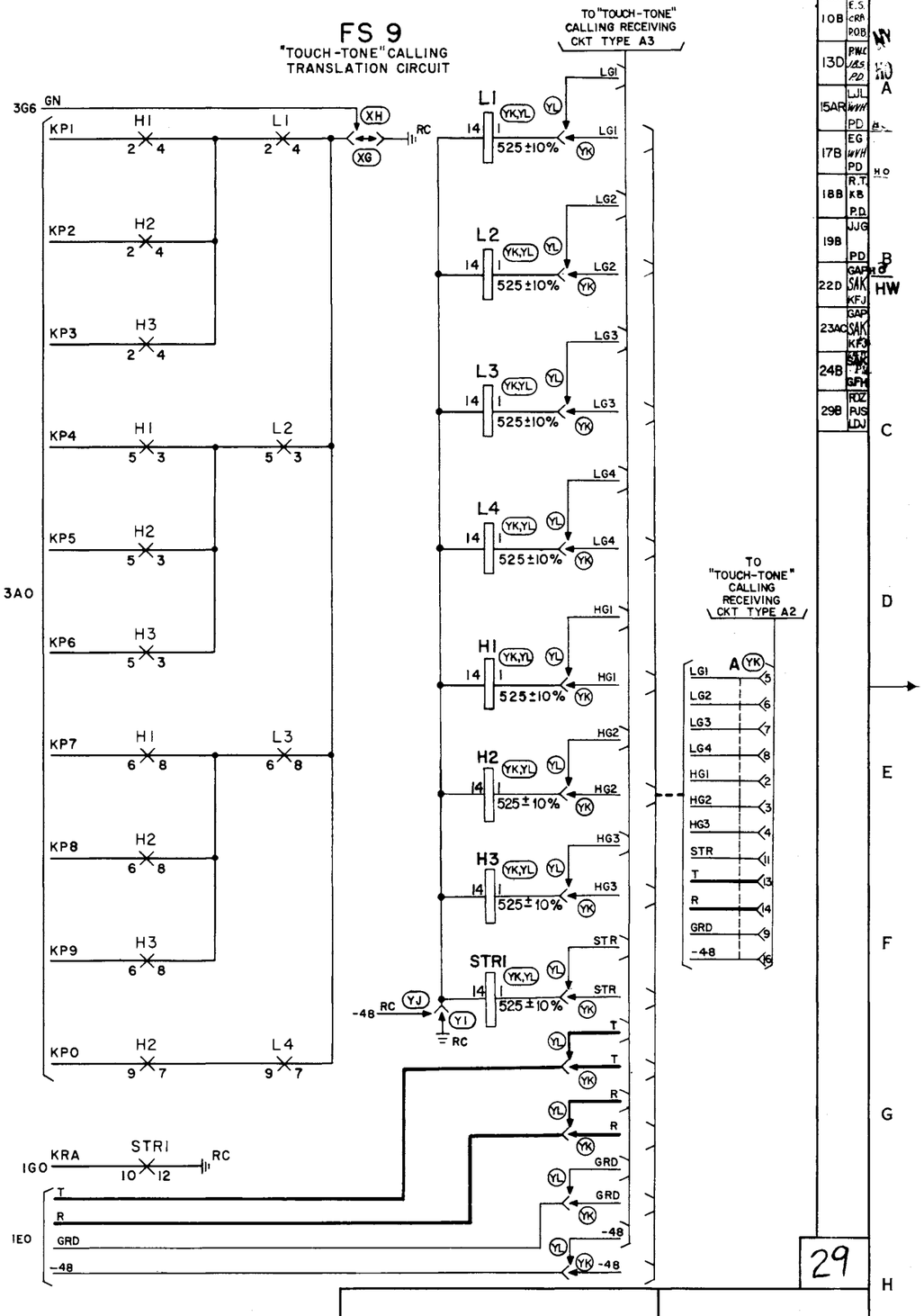
FS 8
SINGLE DIGIT DIALING
TIMING AND CONTROL CIRCUIT



⑨ FS 10
TOUCH TONE CALLING RECEIVER
TYPE CI

FS 9
"TOUCH-TONE" CALLING
TRANSLATION CIRCUIT



DRAWING ISSUE

10B	E.S. CRR POB
13D	PWC WES PD
15AR	LJL WYH PD
17B	EG WYH PD
18B	R.T. KB P.D.
19B	JJG PD GAP SAK KFJ
22D	GAP SAK KFJ
23AC	GAP SAK KFJ
24B	SAK GAP PD GPH
29B	RDZ PJS LDJ

29

DIAL PULSE REGISTER CIRCUIT (2)
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APP FIG. 1

RELAY

DESIG			BY		P1		P2		P2A		P2A		P3		P4		P5		RA		RV		DESIG
CODE			AJ30		AF515		AF518		AF63		AK30		AF515		AF515		AF515		AG35		AF118		CODE
OPTION									ZX		ZY,YH												OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12					BM	3G8	EMB	2C4					M		BM	3BI	BM	3AO	BM	3CI	M	2D2			12
11					M	2C4	M	2D3					EBM		M	2E6	M	2G6	M	2H4					11
10			M	IB2	BM	2H3	EBM	3BI					EBM		BM	3BI	BM	3CO	BM	3BO	M	3F7	EBM	IDI	10
9			B	4D9					B	3G7			EMB										PM		9
8			EBM	3G5	BM	2F5	EBM	3CO	M	2B3			EMB		BM	3CI	BM	3EO	BM	2F4	B	3H4			8
7			B		B	2F3	B	2F3	B						B	2F3	B	3BO	B	2G3					7
6			EMB	ID6	BM	3EI	EMB	2B5	EMB	2E2					BM	3DO	BM	2D5	BM	2D4	B	3G5	EBM	ID2	6
5			B	IC7					B	ID5	EMB	IE5													5
4			EBM	IE4	BM	2D4	EBM	2H5	M	3H5	EMB	2F2			BM	2H4	BM	2F6	BM	2F5	M	2C2	PM		4
3			B	IB7	M	3AO	M				EBM	3G7			M	3BI	M		M	3EO			M		3
2					BM	3DI	EBM	3G8			EBM	2C3			BM	3EI	BM	3CO	BM	3BI	M	ID6			2
1					M	2B3	M	2E5			M	3H5			M	2F4	M	2H5	M						1
COIL				IB3		2B6		2C6		2E2		2F2		2D6		2G6		2H6		IE6		IA5			COIL

CAPACITOR

DESIG	LOC	CODE
(ZN) LW	ID3	542G
TN	IE4	441B

RESISTOR

DESIG	LOC	CODE
H	ICO	18G
LU	IG3	18AE
(ZN) LW	ID4	KS-13490,L1,620
P1	2B4	KS-13490,L1 0.1 MEG
P2	2C3	KS-13490,L1 0.1 MEG
S	IDO	18BW
(YP) T	IDI	18AG
TN	IE3	KS-13490, L1, 27

JACK

DESIG	LOC	CODE
TST	IC3	240C

TRANSFORMER

DESIG	LOC	CODE
TN	ID3	142C REP COIL

NETWORK

DESIG	LOC	CODE
P1	2B6	186A
P2	2C6	186A
P3	2D6	186A
P4	2G6	186A
P5	2H6	186A
RA	ID6	185A

PART OF APP FIG. 2

RELAY

DESIG			COT		KPC		KRA		ON		PU		RRLA		RRLB		RT		SR						DESIG
CODE			AF64		AF132		AF16		AF132		AF85		AK5				AF63		AG15						CODE
OPTION					Q		Q,ZB																		OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12			EMB	d	M	6D5	M		M	IB6					M	IC7			EM	IDO					12
11			M	(a)	M	6D4			M	IC6					B	3G4									11
10			M	4DI	M	6C4	M	3F7	M	4DI	EBM				B	IC2			M	(a)					10
9			BM	4BI	M	6C4			M	(c)	PM				B	ICI	B	1G3							9
8			M	4E6	BM	6C4	EBM		BM	4DI							M	(a)	EBM	(d)					8
7			BM	ICO	M	6C4	B	3G5	M	3G4							B								7
6			EMB	C	BM	6B4	EBM	3HI	BM	(a)	EBM	3HO					EMB	4E9	EMB	(c)					6
5			BM	4B6	M	6B4			M	IE5							B	4D3							5
4			M	b	M	6B4	EBM	2E5	M	IE7	PM	IAI	B	3G4			M	4G4	M	2B3					4
3			BM	4A6	M	6B4			M	IBI	M	ICO	B	ICO											3
2			M	4EI	M	6B4	M		M	(b)			B	ICI					M	(b)					2
1			M	4EI	M	6A4	M	8CI	M	IAO			M	IB7											1
COIL				4CO		6D4		(a)		IF8		IAI		IB5		IC5		ID3		IG2					COIL

(a) (K) 4AI, (J) 4CI

(b) (XA) IA6, (XB) 4GI

(C) (YZ) 4GI, (XD) 4HO

(d) (YZ) 4GI, (XB) 4GI

(a) (Q) 6D5, (ZB) IGO

(a) 2D2, 4D3

(b) (F) IBO, (A) 3F7

(c) (B) 3F7, (ZB) 3G7

(a) REG O 7D2, REG I 7D2

(a) (Q) 6D5, (ZB) 7D7

(b) REG O 7E2, REG I 7E2

(c) (ZF) IG4, (ZG) IF8

(d) (ZF) IF8, (ZG) IG4

LAMP

DESIG	LOC	CODE
RT	4E9	2Y

NETWORK

DESIG	LOC	CODE
SR	IG2	185A

DIODE

DESIG	LOC	CODE
(YE) KRA	3F7	446F

PART OF APP FIG. 2

RELAY

DESIG			TLA		TT		TLD		TMO	
CODE			AK2				AF52		AJI2	
OPTION										
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC
12	M	4CI			M		EBM	4B6		
11	M	4AI			M		EBM	ICO		
10	M	4GI			BM		EBM	4C9		
9	M	4GI					EBM	4B4		
8	M				BM	3D8	EBM	3D6		
7							EBM			
6					BM	3C8	EBM	IBO		
5			M	4HI			EBM	4A6		
4			M	4E6	BM		EBM	3F8		
3			M	4FI			EBM	IC6		
2			M	4FI	M		EBM	IB6		
1			M	4BI	M	4AI	EBM	3CI		
COIL		4AO		4BO		4AO		ICI		

RELAY

DESIG	AC
CODE	AJ202
OPTION	ZB
24	
23	
22	
21	
20	
19	3F9
18	7D7
17	7D7
16	7D7
15	7D7
14	7C7
13	7C7
12	7C7
11	7C7
10	7C7
9	7C7
8	7B7
7	7B7
6	7B7
5	7B7
4	7A7
3	7A7
2	7A7
1	7A7
COIL	7D7

APP FIG. 3

RELAY

DESIG			DC		OT		STR		SW		TR		UD										DESIG
CODE			AF55		AFI20		AJI2		AFII4		AJ3		AF57										CODE
OPTION																							OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12			M	4A4	EM	3GI	EBM	8CI			EMB	3E7	M	2C2									12
11			M	4G4			EBM	3G7			BM	3D7											11
10			BM	3HO	EBM	4A5	EBM	3FI	M	3E7	EBM	4A6	M	2D2									10
9			M	ICO			EBM	3E4			M	4BO											9
8			BM	b	EMB	3E8	EBM	3E3	BM	2E2	EBM	4B6	EBM	3G7									8
7			B	3D7	B	2B5	EBM	3D3															7
6			BM	d	EBM	4B5	EBM	3D3	BM	2B2	EMB	3D7	EBM										6
5			M	ID6	B	3E8	EBM	3C3			M	3D7											5
4			BM	(a)	PM	3E8	EBM	3B2	M	3HO	EBM		M	3G5									4
3			M	c	B	3G6	EBM	3B2			BM	3GI											3
2			M	4D9	EM	3GI	EBM	3B2	B	IA2	EBM	3E7	M	3G8									2
1			M	3F5			EBM	3A2			BM	3FI											1
COIL				3F5		3E9		3F7		3HO		3E7		3F8									COIL

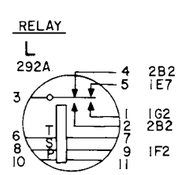
(a) (Q) 6D5, (ZB) 7D8

(b) (XG) IA2, (XH) IA2, 8CI

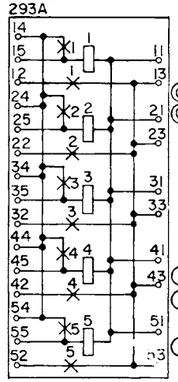
(C) (XG) 8CI, (XH) IG3

(d) (XG) IG3, (XH) 3G6

RELAY L 292A



RELAY 293A



LOCATION

DESIG	COIL	LOAD CONT
(I)TD1,2,3,4,5	3B5	3B6
(I)TD6,7,8,9,0	3E5	3C6
(Q,ZB)(I)UD1,2,3,4,5	5CI	5DI
(Q,ZB)(I)UD6,7,8,9,0	5C4	5D4

CAPACITOR

DESIG	LOC	CODE
PH	IG2	437QA

DIODE

DESIG	LOC	CODE
(YT) KP	3HO	KS-15724,L2
(YU) KP	3HO	446F
(YC) TM	3G5	426F

NETWORK

DESIG	LOC	CODE
TD	3F6	185A
(Q,ZB) UD	5D5	185A

RESISTOR

DESIG	LOC	CODE
L	IF2	18FR

APP FIG. 4

RELAY

DESIG			POSI		POS2		DESIG
CODE			AJ5		AJ5		CODE
OPTION			Q		Q		OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12			EBM	6D2	EBM	6H2	12
11			EBM	6D2	EBM	6H2	11
10			EBM	6C2	EBM	6H2	10
9			EBM	6C2	EBM	6G2	9
8			EBM	6C2	EBM	6G2	8
7			EBM	6C2	EBM	6G2	7
6			EBM	6B2	EBM	6G2	6
5			EBM	6B2	EBM	6F2	5
4			EBM	6B2	EBM	6F2	4
3			EBM	6B2	EBM	6F2	3
2			EBM	6A2	EBM	6F2	2
1			EBM	6A2	EBM	6E2	1
COIL				6D2		6H2	COIL

RELAY

DESIG	POSI	POS2
CODE	AJ202	AJ202
OPTION	ZB	ZB
24		
23		
22		
21		
20		
19	7D3	7G3
18	7D3	7G3
17	7D3	7G3
16	7D3	7G3
15	7C3	7G3
14	7C3	7G3
13	7C3	7G3
12	7C3	7G3
11	7C3	7G3
10	7C3	7G3
9	7B3	7G3
8	7B3	7G3
7	7B3	7G3
6	7B3	7G3
5	7B3	7G3
4	7A3	7G3
3	7A3	7G3
2	7A3	7G3
1	7A3	7G3
COIL	7D3	7G3

DRAWING ISSUE

4B	CM JAS
5B	FJS LHE
6D	LMC JFE
7B	OL NE
8D	VS MR
10B	ES CRR POB
11B	JAF WYH PD
12AC	JAF WYH PD
17B	EG WYH PD
18B	RT KB PD
19B	JJG SJF PD
20B	RWK SAK KFJ
22D	RKU SAK KFJ
24B	SAK GFK
PMR 26D	FED PJS RHF
28A	CEL PJS RHI
29B	ROZ PJS LDJ

SD-65742-01-CI

DIAL PULSE REGISTER CIRCUIT (2)

SD-65742-01-CI

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APP FIG. 5

DESIG			SD				
CODE			AJ83				
OPTION							
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC
12			EBM	b				
11			EBM	a				
10			EBM	c				
9			EBM	d				
8			EMB	8B4				
7			EBM					
6			EMB					
5			EMB					
4			EBM	3G0				
3			EBM	3D7				
2			EBM	8D3				
1			EBM	8D3				
COIL				8A3				

a	REG 0	8D1
	REG 1	8D1
b	REG 0	8E1
	REG 1	8E1
c	REG 0	8F1
	REG 1	8G1
d	REG 0	8G1
	REG 1	8H1

CAPACITOR

DESIG	LOC	CODE
C	8C3	KS-13810,125 (ZZ) KS14105,125 (YA)
T	8B3	KS-16742,L1, .0015

DIODES

DESIG	LOC	CODE
SDA	8B3	420G (YV) 446F (YW)
Z	8B2	420K (YV) 446N (YW)

POTENTIOMETER

DESIG	LOC	CODE
R	8B2	KS-13790,L30,75,000

RESISTOR

DESIG	LOC	CODE
RB	8C2	146C,2740
RC	8B3	145C, 10,000
RE	8B2	145C, 10,000
(YN) RF	8B2	KS-13490,L1,2000

APP FIG. 6

TRANSISTOR

DESIG	LOC	CODE
T	8B3	27A

APP FIG. 7

DIODE

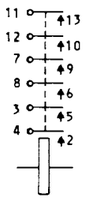
DESIG	LOC	CODE
(YX) SD-	8A1	KS-15724,L2
(YY) SD-	8A1	446F

APP FIG. 8

RELAY

295A

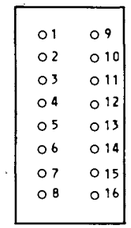
OPTION



HI YK,YL	H2 YK,YL	H3 YK,YL	LI YK,YL	L2 YK,YL	L3 YK,YL	L4 YK,YL	STRI YK,YL
							8G6
	8G6					8G7	
8E6	8E6	8F6			8E7		
8C6	8D6	8D6		8C7			
8A6	8B6	8B6	8A7				
8D8	8E8	8F8	8A8	8B8	8C8	8D8	8F8

CONNECTOR

AMPHENOL



DESIG	A
CODE	26-4501-16S
OPTION	YK
TERM.	LOC
1	
2	8E9
3	8E9
4	8E9
5	8E9
6	8E9
7	8E9
8	8E9
9	8F9
10	
11	8E9
12	
13	8F9
14	8F9
15	
16	8F9

RESISTOR

DESIG	LOC	CODE
(ZY) DT	1E4	KS-13490,L1,3000

APP FIG. 9

CONNECTOR

DESIG	LOC	CODE
J1	8F3	KS-14672,L2

RESISTOR

DESIG	LOC	CODE
(ZY) DT	1E4	KS-13490,L1,3000

DRAWING ISSUE

10B	E.S CRA POB
15AC	WYH PD
17B	EG WYH PD
18B	R.T. K.B P.D.
19B	JJG PD
21B	MAH SAK KFJ
22D	RKU SAK KFJ
23AC	RKU SAK KFJ
24B	RKU SAK GFH

PBX SYSTEMS
NO. 756A
DIAL PULSE REGISTER CIRCUIT (2)

SD-65742-01-C2

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CIRCUIT NOTES:

101.

DESIG	FUSE AMP	POTENTIAL	ONE PER	TERM. DESIG
RA	1 1/3	-48V SIG	APP FIG. 1	
RB	1 1/3	-48V SIG	APP FIGS. 1,2,3	
RC	1 1/3	-48V SIG	APP FIGS. 1,2,3,4 & 5	
RA		GROUND	APP FIG. 1,2,3	
RB		GROUND	APP FIG. 2,3	
RC		GROUND	APP FIG. 1,2,3, 4,5, & 8	

BATTERY SYMBOL	VOLTAGE RANGE
-48V	45-52V

102.

FEATURE OR OPTION				PROVIDE APP FIGS	PROVIDE APP OR WIR	PROVIDE QUANTITY
DIAL PULSE REGISTER CIRCUIT				1,2, & 3		2 PER PBX
DIRECT STATION SELECTION CONNECTOR AND CONTROL CIRCUIT				4		1 PER PBX
CLASS OF SERVICE	TENS DIGIT 6 & 7 INTERCEPTED (40 LINE PBX)				Z	
	TRUNK CODE 8	CODE 8 INTERCEPTED (NOT EQUIPPED)			W	
		RESTRICTED STATION OR DIAL REPEATING TIE TRUNK	DENIED ACCESS TO CODE 8 AND IS INTERCEPTED		Y	
			PROVIDED ACCESS TO CODE 8		X	
	TRUNK CODES 8 & 9	CO TRUNK OR RING-DOWN TIE TRUNK	NOT RESTRICTED FOR CODES 8 & 9 (NOT INTERCEPTED)		J	
			RESTRICTED FOR CODES 8 & 9 (INTERCEPTED)			
	CODE 9		ONE DIGIT		V	
			TWO DIGIT		T	
DIRECT STATION SELECTION FROM STATIONS			REQUIRED		ZE	
			NOT REQUIRED		ZD	
SINGLE DIGIT DIALING (CODES 2 THRU 8)	TIMING AND CONTROL			5,6	ZC	1 PER REG
	DIODES			7	YY	1 PER SGL DIG CD USED
	SINGLE DIGIT CODE 8	NOT USED OR USED FOR REACHING STA, TIE TRK OR MISC TRK			ZI	
		USED FOR REACHING LONG DISTANCE OPERATOR VIA CENTRAL OFFICE TRUNKS 8 AND 9			ZK	
		USED FOR REACHING LONG DISTANCE OPERATOR VIA CENTRAL OFFICE TRUNKS 6 AND 7			ZK, ZS	
CONNECTION TO DIAL TONE GENERATOR FOR PBX "TOUCH-TONE" CALLING					YG, YH	

CONTINUED

102 (CONT.)

FEATURE OR OPTION		PROVIDE APP PIGS	PROVIDE APP OR WIR	PROVIDE QUANTITY
"TOUCH-TONE" CALLING TRANSLATION CIRCUIT FOR USE WITH RECEIVING CIRCUIT TYPE A3-7 CHANNEL		8	YJ, YL	1 PER REG
USED WITH "TOUCH-TONE" CALLING RECEIVING CIRCUIT TYPE C1		9		1 PER REG
PAD CONTROL FOR DIAL REPEATING TIE TRUNK			YQ	
PAD CONTROL OF DIAL REPEATING TIE TRUNKS	PAD REMOVED ON ALL DIAL-REPEATING TIE TRUNK CALLS (SEE NOTE 118)		XC	
	PAD REMOVED ONLY ON DIAL-REPEATING TIE TRUNK TO DIAL-REPEATING TIE TRUNK CALLS (SEE NOTE 118)		XD	

103.

NETWORK VALUES		
NETWORK	RES IN OHMS	CAPACITANCE IN UF
1	470	0.13
2	120	0.35

104.

RECORD OF APPARATUS 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	
4B	Q OR R	R		Q		R	
5B	M OR N	N	105	M		N	
6D	J OR K	K	102	J		K,S	
7B	H OR G			G		H	
8D	E OR F	F		E		F	
8D	A OR B	B		A		B	
10B	ZA,ZB OR ZM	Q OR R		ZB,ZM		Q,ZA	
10B	ZE OR ZD	ZD	106	ZD,ZE			
10B	ZF OR ZG	ZF		ZG		ZF	
10B	ZH	NONE		ZH			
10B			102	APP FIG. 5, 6,7&8			
10B	ZK OR ZI	ZI	102	ZK,ZI			
10B	ZC	NONE	102	ZC			
10B	ZJ	NONE		ZJ			
10B	ZP OR ZL	ZL		ZP		ZL	
11B	ZN	NONE		ZN			

CONTINUED

104. (CONT)

RECORD OF APPARATUS 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	
12AC	ZO	NONE		ZO			
16AC	ZR OR ZQ	ZQ	108	ZR		ZQ	
17B	ZS	NONE	102	ZS			
	ZT	NONE		ZT			
	ZV	ZU		ZV		ZU	
18B	ZW	ZW	109	ZW			
	ZX OR ZY	ZX		ZY		ZX	
19B	YA OR ZZ	ZZ		YA		ZZ	
	TRANS			27A		F54810	
20B	YB OR YC	YB	110	YC		YB	
	YD OR YE	YD	111	YE		YD	
21B	YF OR YG	YF	102	YG		YF	
22D	YH	ZW OR ZY	102	YH		ZW,ZY	
22D	YI OR YJ	YI	102	YJ		YI	
22D	YK OR YL	YK	102	YL		YK	
23AC	YM OR YN	YM	113	YN		YM	
24B	YO OR YP	YO		YP		YO	
24B			114	YB		YC	
24B	YT OR YU	YT	115	YU		YT	
24B	YV OR YW	YV	116	YW		YV	
24B	YX OR YY	YX	117	YY		YX	
24B	YZ	NONE		YZ			
25D	YQ	NONE		YQ			
26D	XA OR XB	XA OR YZ		XB		YZ,XA	
	XC OR XD	XC	102,118	XC,XD			
27D	XE,XF	XE		XF		XE	
29B	XG, XH	XG		XH		XG	
	XI, XJ	XI		XJ		XI	
	XK	NONE					

105. M OPTION IS REQUIRED WHEN THE PBX IS EQUIPPED WITH RINGDOWN TIE TRUNKS.

106. ZC AND ZE OPTIONS SHOULD ONLY BE SPECIFIED WHERE ZB OPTION HAS BEEN PROVIDED.

107. THE FOLLOWING SHOWS THE RELAYS OPERATED FOR EACH DIGIT DIALED.

DIGIT	RELAYS OPERATED
1	L1,H1
2	L1,H2
3	L1,H3
4	L2,H1
5	L2,H2
6	L2,H3
7	L3,H1
8	L3,H2
9	L3,H3
0	L4,H2

108. ZR OPTION MUST BE SPECIFIED WHERE ZE OPTION OR ZB OPTION HAS BEEN PROVIDED

(MFR DISC) 109. ZW OPTION MUST BE SPECIFIED WHEN APP FIGURES 8 OR 9 ARE NOT PROVIDED (SEE NOTE 112).

(MFR DISC) 110. YC OPTION PREVENTS STATION LOCK UP WHEN BOTH REGISTERS ARE ON HOLD AND ONE TIMES OUT.

111. YE OPTION PREVENTS OPERATION OF STR RELAY WHEN "TOUCH TONE" STATION SELECTS AN UNEQUIPPED 6 AND 7 TENS GROUP.

(MFR DISC) 112. ZW OPTION IS SPECIFIED AT ALL TIMES WHEN YG OPTION IS PROVIDED.

113. YM OPTION MUST BE SPECIFIED WHERE YA OPTION HAS BEEN PROVIDED.

114. WHEN OPTION Q OR ZB IS PROVIDED, THE ATTENDANT TRUNK CIRCUIT MUST BE PER ISSUE 11B OR LATER OF SD-65753-01.

115. OPTION YT WAS A PART OF OPTION Q AND OPTION ZB PRIOR TO ISSUE 24B.

116. OPTION YV WAS A PART OF OPTION 5 PRIOR TO ISSUE 24B.

117. OPTION YX WAS A PART OF OPTION 7 PRIOR TO ISSUE 24B.

118. SEE MARKER CIRCUIT NOTE 123 REGARDING OPTIONS USED FOR VARIOUS PAD CONTROL ARRANGEMENTS

WORKING LIMITS

MAX EXTERNAL LOOP RESISTANCE	2000
MIN INSULATION RESISTANCE	10,000

DRAWING ISSUE		
SUPER-SEDES ISS 23A		HW
24B	SAK GEH	
25D	SAK DFH	
26D	BCM PJS RHP	
27D	PMC PJS RHP TEF	
28A	PJS RHP ROZ	
29B	PJS LDJ	

SD-65742-01-D1

DIAL PULSE REGISTER CIRCUIT (2)

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INFORMATION NOTES:
301. MANUFACTURING TEST REQUIREMENTS FOR PULSING CIRCUIT:

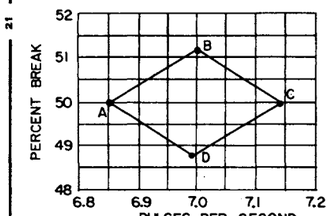

FIG.1A - 7 PULSES PER SEC MIN PERCENT BREAK TEST *

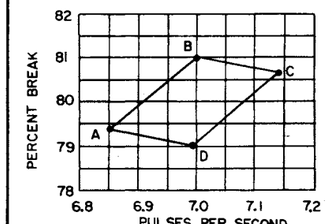

FIG.1B - 7 PULSES PER SEC MAX PERCENT BREAK TEST *

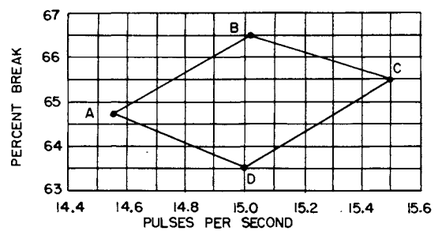

FIG.1C - 15 PULSES PER SECOND MINIMUM PERCENT BREAK TEST *

NOTES:
1. THE TEST CIRCUIT SHALL PROVIDE AN INTERDIGITAL INTERVAL OF 183±13 MILLISECONDS FOR THE PULSING CONDITIONS OF FIG.1C FOR OTHER PULSING CONDITIONS THIS TIME MAY BE EXCEEDED.

* THE POINT OF INTERSECTION OF THE HORIZONTAL AND VERTICAL LINES DETERMINED BY ANY PAIR OF SIMULTANEOUS VALUES OF PERCENT BREAK AND PULSES PER SECOND SHALL FALL WITHIN THE AREA ABCD.

FIGS. 1A-1C - DIAL SPEED AND PERCENT BREAK LIMITS FOR PULSING TEST.

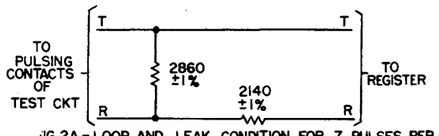

FIG.2A - LOOP AND LEAK CONDITION FOR 7 PULSES PER SECOND MINIMUM AND MAXIMUM PERCENT BREAK TEST.

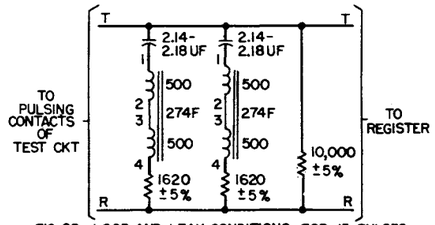

FIG. 2B - LOOP AND LEAK CONDITIONS FOR 15 PULSES PER SECOND MINIMUM PERCENT BREAK TEST.

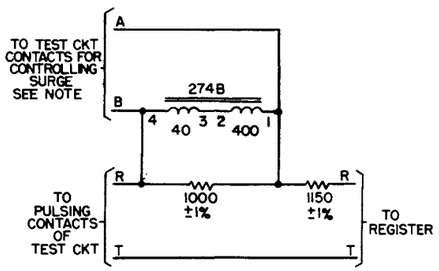

FIG. 2F - LOOP AND LEAK CONDITIONS FOR SURGE TEST.

NOTE:
THE TEST CIRCUIT CONTACTS FOR CONTROLLING THE SURGE CONDITION SHALL BE CLOSED DURING THE PULSING OF ANY DIGIT; SHALL OPEN FOR AT LEAST 50 MIL SEC, APPROX 50 MIL SEC AFTER THE PULSING CONTACTS CLOSE AT THE END OF EACH DIGIT, AND SHALL RECLOSE BEFORE THE PULSING CONTACTS REOPEN FOR THE FIRST PULSE OF THE SUCCEEDING DIGIT.

FIG. 2 - LINE CONDITIONS

302. MANUFACTURING TEST REQUIREMENTS FOR SINGLE DIGIT TIMING CIRCUIT (ZC OPTION):
UPON DIALING A SINGLE DIGIT (2-8) CORRESPONDING TO A TENS GROUP ARRANGED FOR SINGLE DIGIT OPERATION, THE SD(-) RELAY SHALL OPERATE 3 ± 1/2 SECONDS AFTER THE STR RELAY OPERATES.

303. CONNECT SD DIODE BETWEEN SDT TERMINAL AND ST(-) TERMINAL CORRESPONDING TO TENS GROUP TO BE ARRANGED FOR SINGLE DIGIT DIALING.

DRAWING ISSUE
1 PKZ
98 PKZ
108 PKZ
198 PKZ

PBX SYSTEMS
NO. 756A
DIAL PULSE REGISTER CIRCUIT (2)
SD-65742-01-D2

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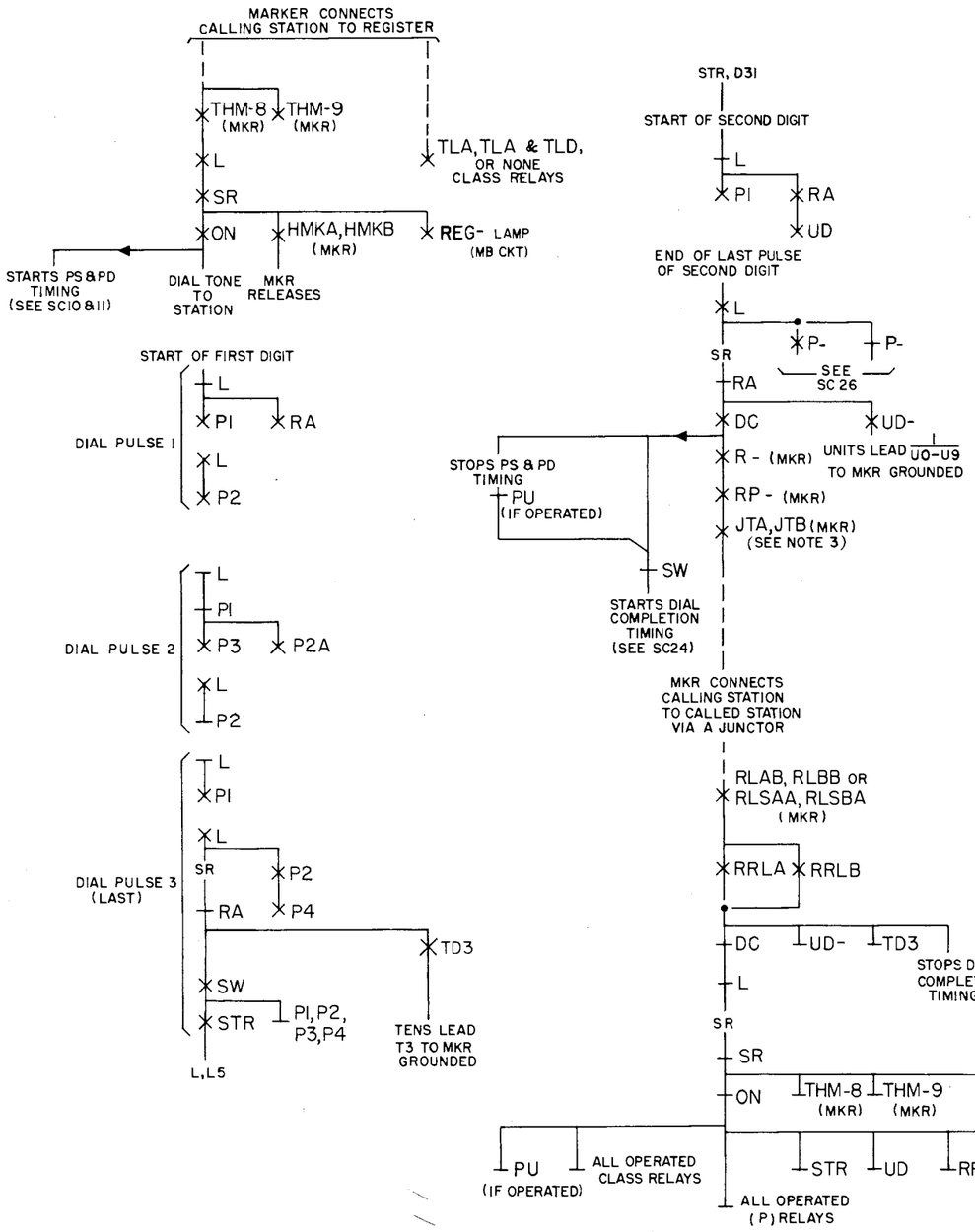
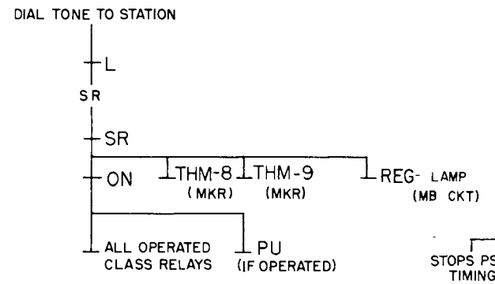
SC 1

STATION TO STATION CALL
(SEE NOTE 1)



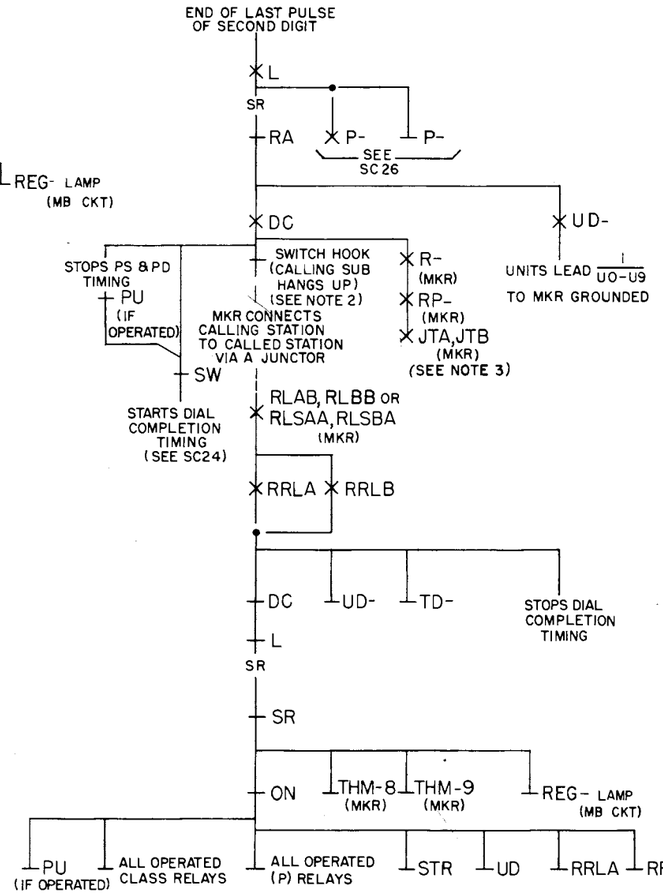
SC 2

ABANDONED CALL
(CALL ABANDONED BEFORE DIALING BUT AFTER REGISTER IS CONNECTED TO CALLING STATION)



SC 3

ABANDONED CALL
(CALL ABANDONED AFTER DIALING BUT BEFORE TIME OUT PER SC 24 AND BEFORE MARKER HAS COMPLETED PROCESSING THE CALL)



SHEET NOTES:

1. SC1 ASSUMES TENS DIGIT 3 IS DIALED FOLLOWED BY ANY UNITS DIGIT.
2. WHEN CALLING STATION HANGS UP, THE (H) RESISTOR IN THE REGISTER MAINTAINS THE (L) RELAY IN THE REGISTER OPERATED AND OPERATES THE (A) RELAY IN THE JUNCTOR THUS ALLOWING THE MARKER TO COMPLETE ITS FUNCTIONS IN THE NORMAL MANNER.
3. WITH (OT), (TR), (COT), & (TMO) RELAYS RELEASED, THE OPERATION OF THE (DC) RELAY WILL CAUSE THE (JTA) & (JTB) RELAYS IN THE MARKER TO OPERATE INDICATING A JUNCTOR TYPE CALL IS TO BE COMPLETED.

27

DIAL PULSE REGISTER CIRCUIT (2)

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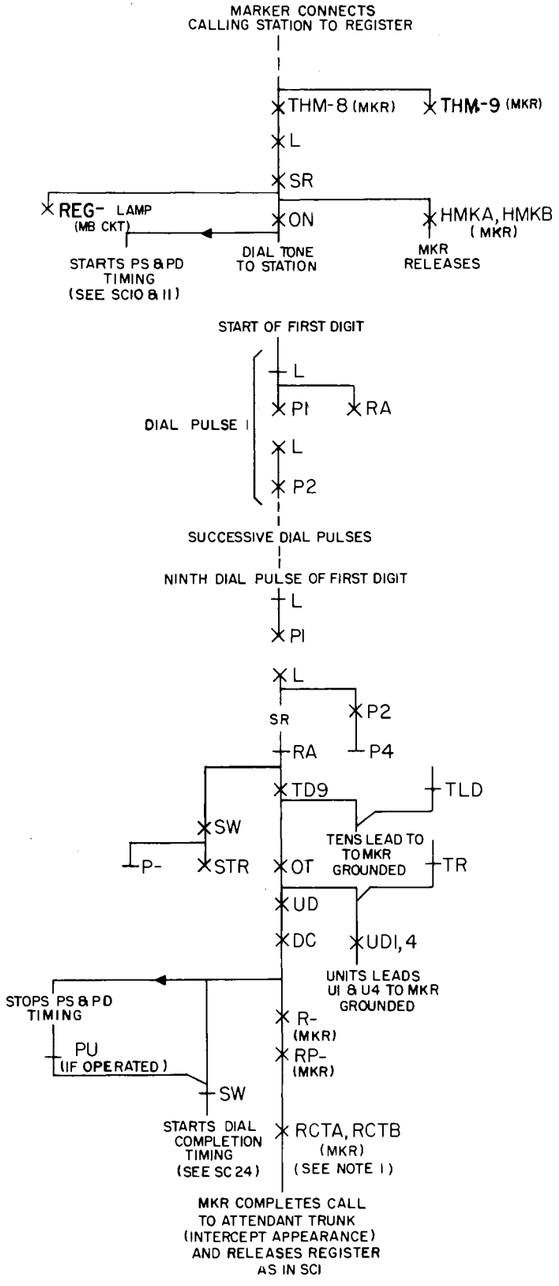
17B	E.G. W.Y.H. P.D.
18B	R.T. K.B. P.D.
27D	P.M.C. R.J.S. R.H.P.

SC4

RESTRICTED STATION DIALS 9

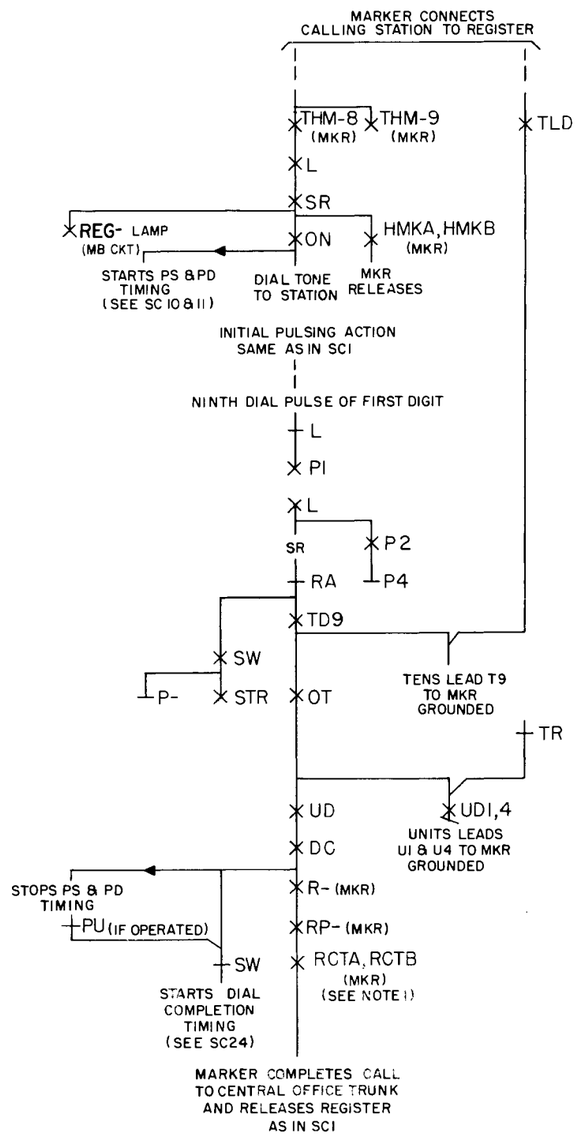


SC5

RESTRICTED STATION TO CODE 8 TRUNK CALL
(Y OPTION)
ACTION SAME AS IN SC4, EXCEPT EIGHTH INSTEAD OF NINTH DIAL PULSE IS REGISTERED AND TD8 INSTEAD OF TD9 OPERATES

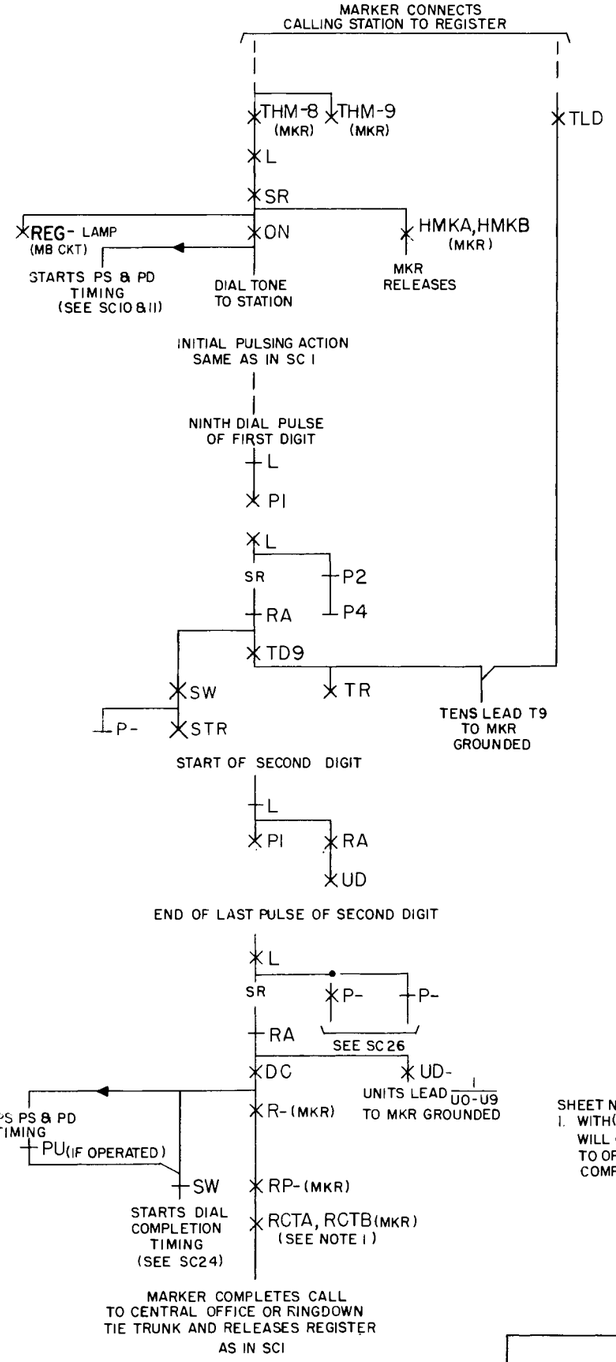
SC6

TOLL DENIED STATION TO CENTRAL OFFICE TRK CALL
(ONE DIGIT TRUNK CODE V OPTION)



SC7

TOLL DENIED STATION TO CENTRAL OFFICE OR RINGDOWN TIE TRUNK CALL
(TWO DIGIT TRUNK CODE T OPTION)



SHEET NOTES:
1. WITH (OT) RELAY OPERATED, THE OPERATION OF THE (DC) RELAY WILL CAUSE THE (RCTA) & (RCTB) RELAYS IN THE MARKER TO OPERATE INDICATING A TRUNK TYPE CALL IS TO BE COMPLETED.

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SC8
RESTRICTED STATION TO CODE 8 TRUNK CALL (X OPTION)

MARKER CONNECTS CALLING STATION TO REGISTER

THM-8 (MKR) THM-9 (MKR)

L

SR

ON — STARTS PS & PD TIMING (SEE SC10 & 11); DIAL TONE TO STATION

HMKA, HMKB (MKR) — MKR RELEASES

REG- LAMP (MB CKT)

INITIAL PULSING ACTION SAME AS IN SC1

EIGHTH DIAL PULSE OF FIRST DIGIT

L

PI

P3

L

SR — P2

RA

TD8

SW — P-

STR

TR — TENS LEAD T8 TO MKR GROUNDED

START OF SECOND DIGIT

L

PI

RA

UD

END OF LAST PULSE OF SECOND DIGIT

L

SR — P- (SEE SC26) — P-

RA

DC — STOPS PS & PD TIMING; PU (IF OPERATED); SW — STARTS DIAL COMPLETION TIMING (SEE SC24)

UD- — UNITS LEAD U0-U9 TO MKR GROUNDED

R-(MKR)

RP-(MKR)

RCTA, RCTB (MKR) (SEE NOTE 1)

MARKER COMPLETES CALL TO CODE 8 TRUNK AND RELEASES REGISTER AS IN SC1

SC9
STATION OR TRUNK DIALS UNEQUIPPED CODE (W OR Z OPTION)

REGISTER ACTION

END OF FIRST DIGIT

L

SR — P- (SEE SC26) — P-

RA

TD 1/6-8

SW — P-

STR

OT — TENS LEAD TO TO MKR GROUNDED

TR

UD

UD1,4 — UNITS LEADS U1 & U4 TO MKR GROUNDED

DC — STOPS PS & PD TIMING; PU (IF OPERATED); SW — STARTS DIAL COMPLETION TIMING (SEE SC24)

R-(MKR)

RP-(MKR)

RCTA, RCTB (MKR) (SEE NOTE 1)

MARKER COMPLETES CALL TO ATTENDANT TRUNK (INTERCEPT APPEARANCE) AND RELEASES REGISTER AS IN SC1

SC10
PERMANENT SIGNAL TIME OUT

MARKER CONNECTS CALLING STATION OR TRUNK TO REGISTER

THM-8 (MKR) THM-9 (MKR)

CLASS RELAY

L

SR

ON — DIAL TONE TO LINE

HMKA, HMKB (MKR) — MKR RELEASES

REG- LAMP (MB CKT)

0-7.5 SEC

PU LEAD FROM INTERRUPTER IN POWER PLANT GROUNDED

SO

PU

7.5 SEC

TM LEAD FROM INTERRUPTER IN POWER PLANT GROUNDED

TMO

TR

OT — TENS LEAD TO TO MKR GROUNDED

UD1,4 — UNITS LEADS U1 & U4 TO MKR GROUNDED

R-(MKR)

RP-(MKR)

RCTA, RCTB (MKR) (SEE NOTE 1)

MARKER CONNECTS CALLING STATION OR TRUNK TO ATTENDANT TRUNK (INTERCEPT APPEARANCE)

RLAB, RLBB OR RLSAA, RLSBA (MKR)

RRLA RRLB

L — TMO — UD1,4

SR

SR

REG-LAMP (MB CKT) — THM-9 (MKR) — THM-8 (MKR) — ON

RRLA — RRLB — PU — OT — ALL OPERATED CLASS RELAYS

SHEET NOTES:
1. WITH (TR) OR (OT) RELAYS OPERATED, THE OPERATION OF THE (DC) OR (TMO) RELAYS WILL CAUSE THE (RCTA) & (RCTB) RELAYS IN THE MARKER TO OPERATE INDICATING A TRUNK TYPE CALL IS TO BE COMPLETED.

DRAWING ISSUE

5B	F.J.S.	LWE
17B	EG	WH PD
18B	R.T.	KB P.D.
27D	PMC	PJS RHP

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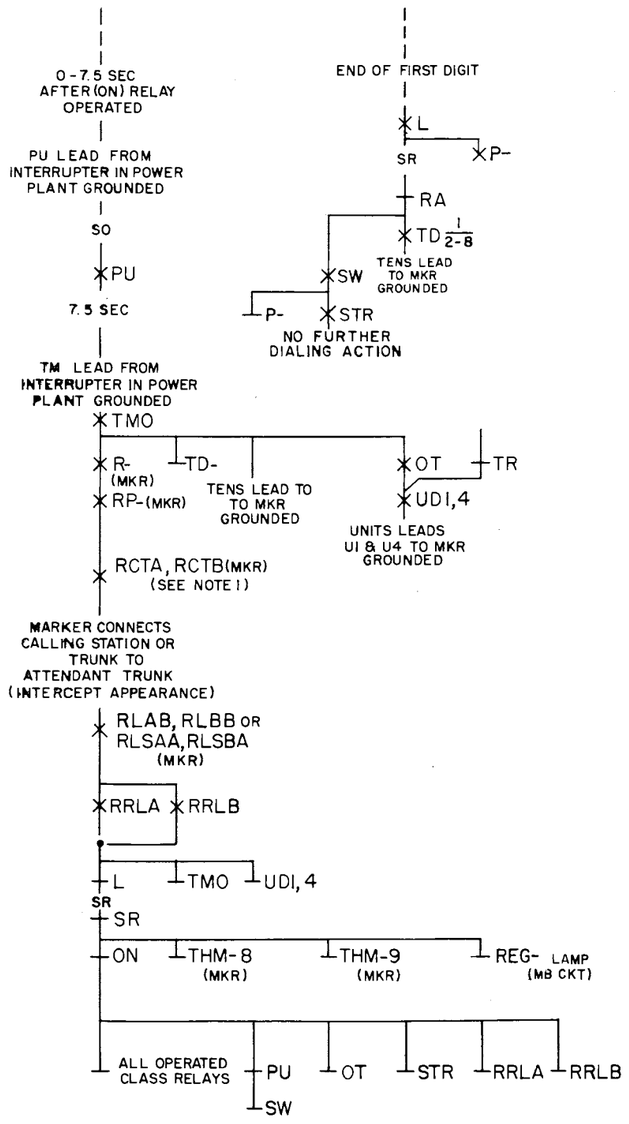
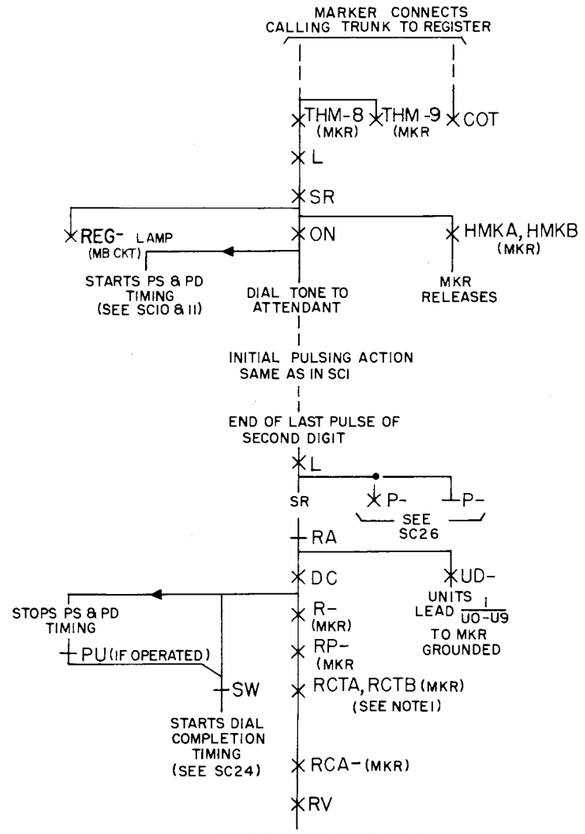
SC11
PARTIAL DIAL TIME OUT

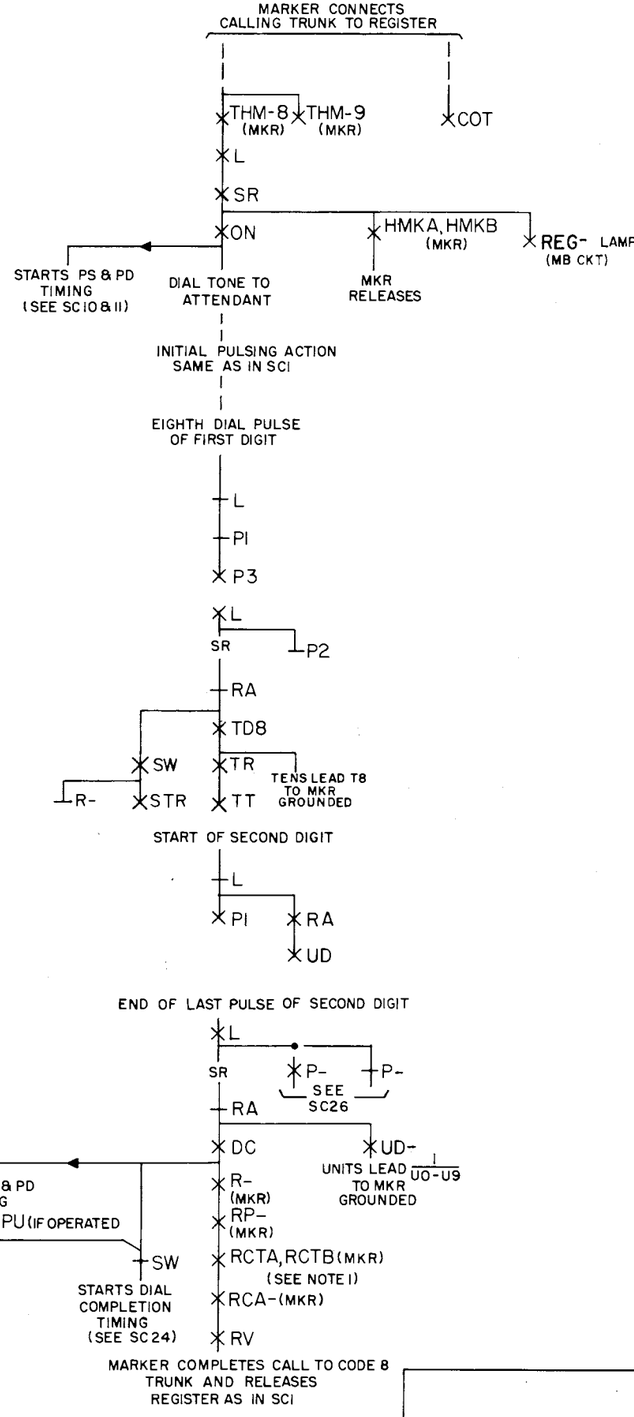


SHEET NOTES:
1. WITH (OT), (TR), OR (COT) RELAYS OPERATED, THE OPERATION OF THE (DC) OR (TMO) RELAYS WILL CAUSE THE (RCTA) & (RCTB) RELAYS IN THE MARKER TO OPERATE INDICATING A TRUNK TYPE CALL IS TO BE COMPLETED.

SC12
CENTRAL OFFICE OR RINGDOWN TIE TRUNK TO STATION CALL



SC13
CENTRAL OFFICE OR RINGDOWN TIE TRUNK TO CODE 8 TRUNK CALL



DRAWING ISSUE		
5B	F.J.S. K.H.E.	P.O.B. NY
18B	R.T. K.B. P.D.	
27D	PMC FJS PHP	102 NY

27

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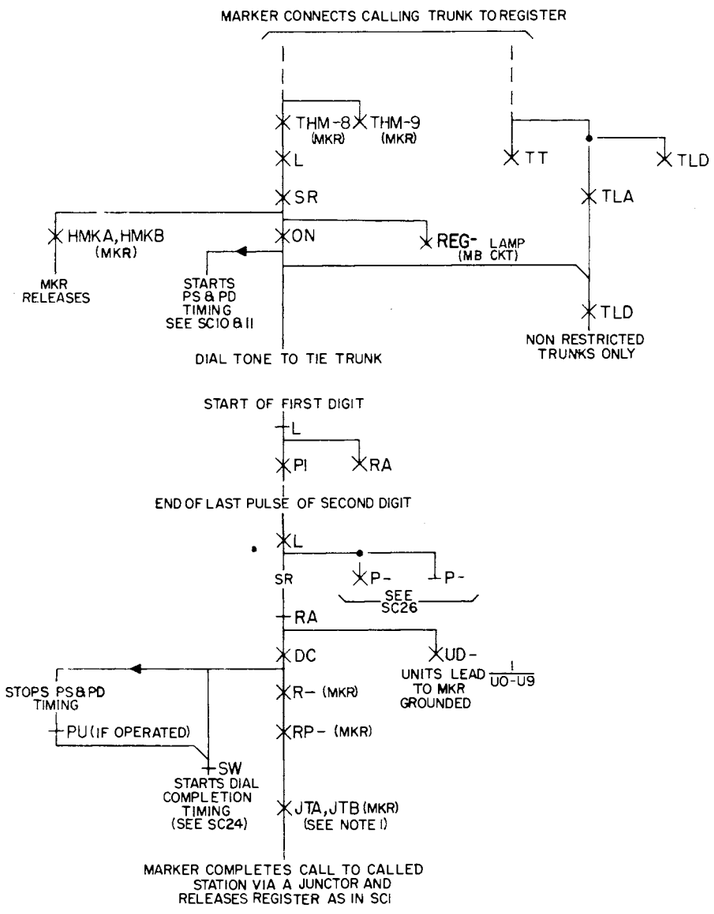
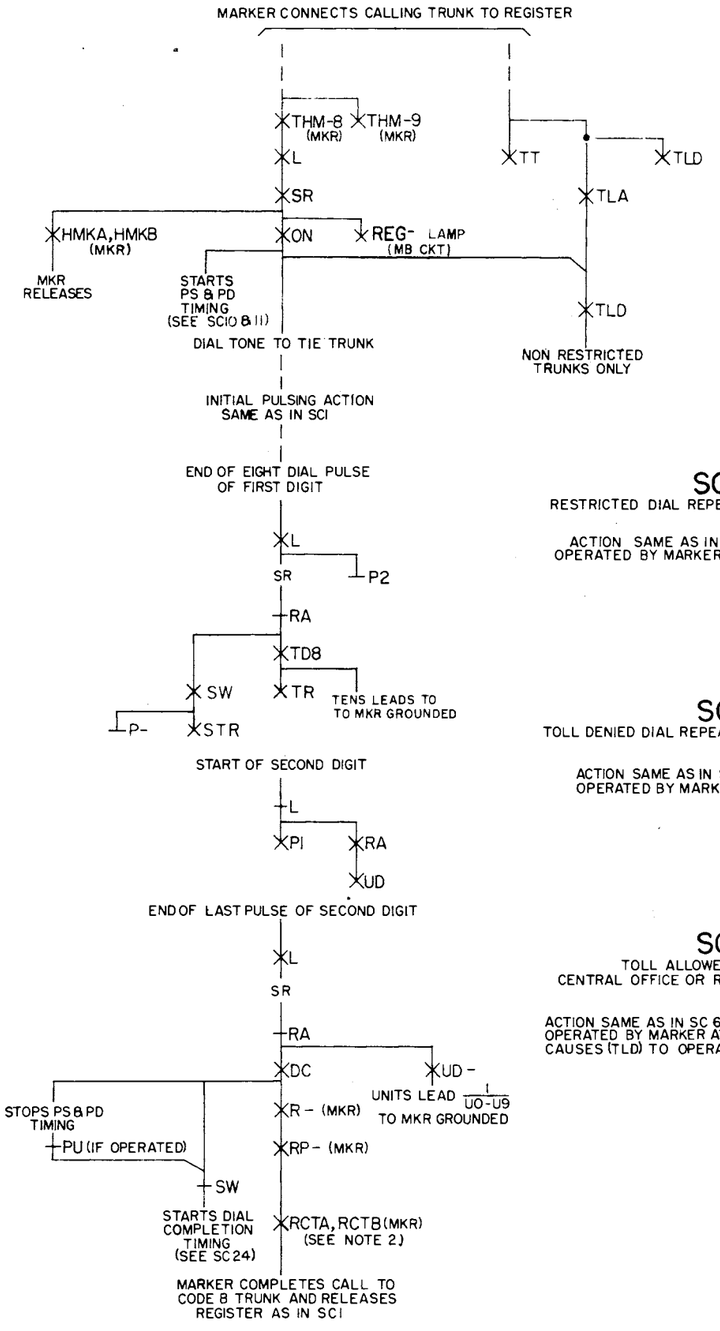
SC14
DIAL REPEATING TIE TRUNK TO STATION CALL



SC15
DIAL REPEATING TIE TRUNK TO CODE 8 TRUNK CALL



SC16
RESTRICTED DIAL REPEATING TIE TRUNK DIALS 9

ACTION SAME AS IN SC4, WITH (TT) RELAY OPERATED BY MARKER AT REGISTER SEIZURE

SC17
TOLL DENIED DIAL REPEATING TIE TRUNK DIALS 9 CODE

ACTION SAME AS IN SC6 & 7 WITH (TT) RELAY OPERATED BY MARKER AT REGISTER SEIZURE

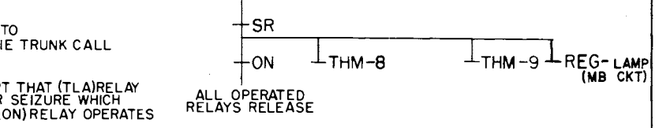
SC18
TOLL ALLOWED STATION TO CENTRAL OFFICE OR RINGDOWN TIE TRUNK CALL

ACTION SAME AS IN SC6 & 7 EXECPT THAT (TLA) RELAY OPERATED BY MARKER AT REGISTER SEIZURE WHICH CAUSES (TLD) TO OPERATE WHEN (ON) RELAY OPERATES

SC19
TOLL ALLOWED DIAL REPEATING TIE TRUNK TO CENTRAL OFFICE OR RINGDOWN TIE TRUNK CALL

ACTION SAME AS IN SC 18 WITH (TT) RELAY ALSO OPERATED BY MARKER AT REGISTER SEIZURE

SC 20
CALLED STATION OR TRUNK BUSY AND BUSY TONE TRUNK ALSO BUSY



SC21
ATTENDANT TRUNK TO STATION CALL

ACTION SAME AS IN SC1 FOR RESTRICTED STATION TO STATION CALL

SHEET NOTES:
1. WITH (OT), (TR), (COT), & (TMO) RELAYS RELEASED, THE OPERATION OF THE (DC) RELAY WILL CAUSE THE (JTA) & (JTB) RELAYS IN THE MARKER TO OPERATE INDICATING A JUNCTOR TYPE CALL IS TO BE COMPLETED.
2. WITH THE (TR) RELAY OPERATED, THE OPERATION OF THE (DC) RELAY WILL CAUSE THE (RCTA) & (RCTB) RELAYS IN THE MARKER TO OPERATE INDICATING A TRUNK TYPE CALL IS TO BE COMPLETED.

27

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SHEET NOTES:

1. IF X OPTION IS PROVIDED, CALL IS COMPLETED TO CODE 8 TRUNK. IF Y OPTION IS PROVIDED, CALL IS COMPLETED TO ANOTHER ATTENDANTS TRUNK.
2. WITH (OT)RELAY OPERATED, THE OPERATION OF THE (DC) RELAY WILL CAUSE THE (RCTA) AND (RCTB) RELAYS IN THE MARKER TO OPERATE INDICATING A TRUNK TYPE CALL IS TO BE COMPLETED.

DRAWING ISSUE

58
188
248
27D

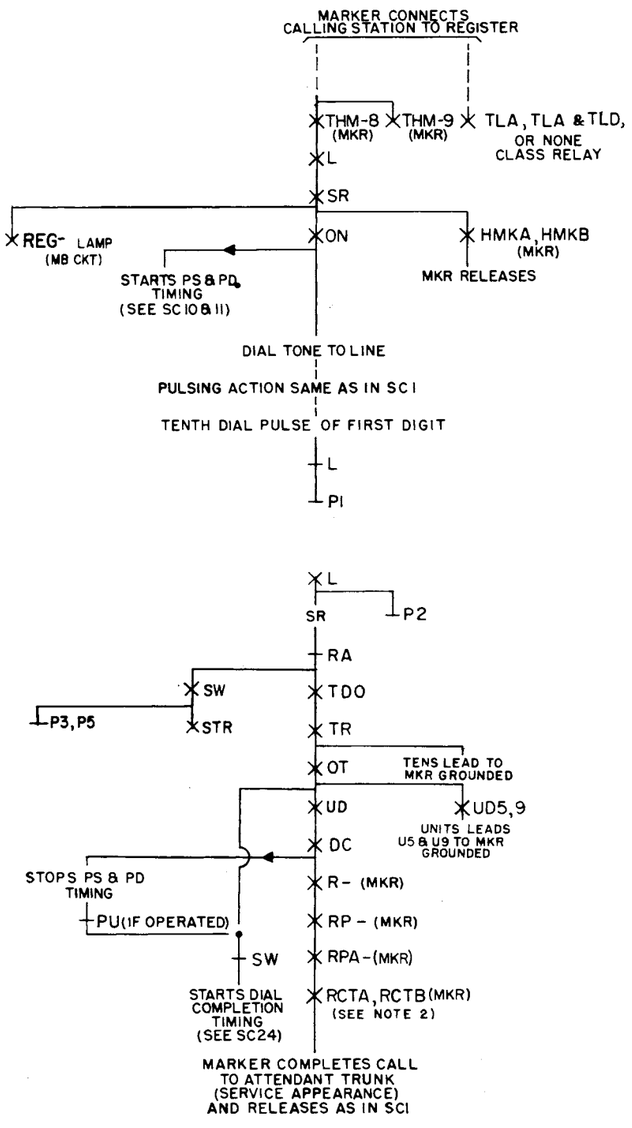
SC 22

ATTENDANT TRUNK TO CODE 5 TRUNK CALL

ACTION SAME AS IN SC 8 FOR RESTRICTED STATION TO CODE 8 TRUNK CALL (SEE NOTE 1)

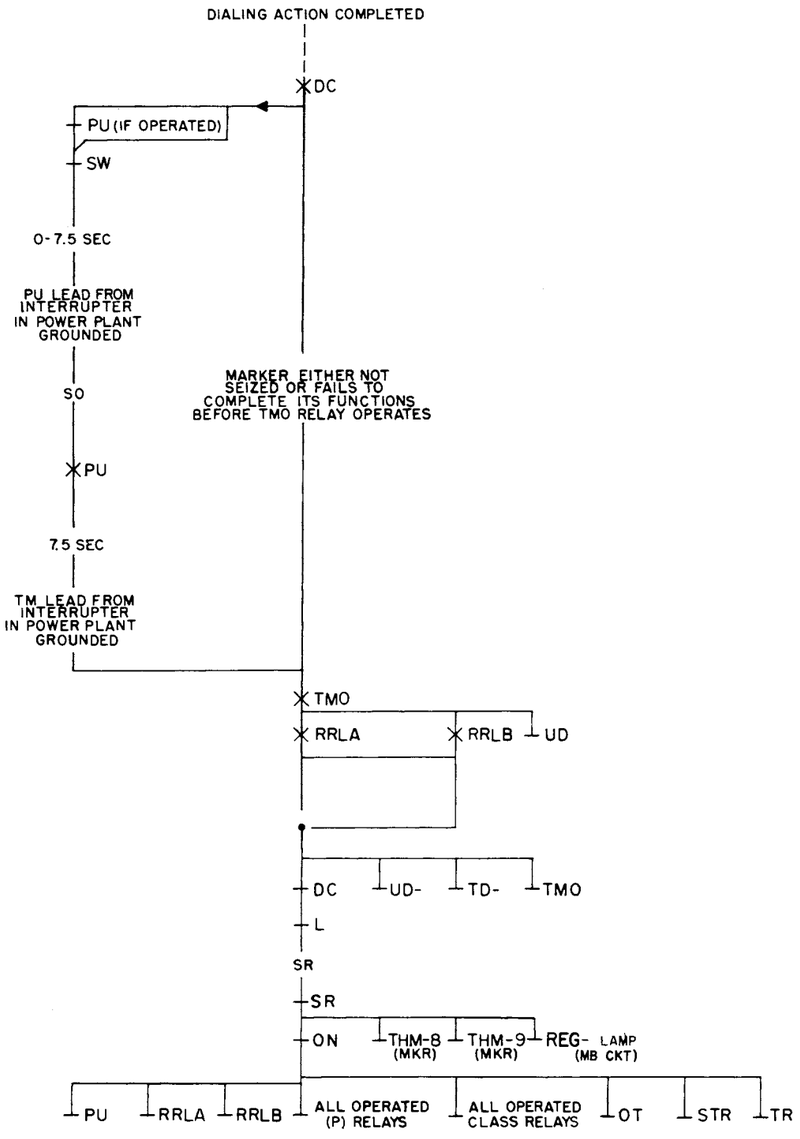
SC 23

STATION TO ATTENDANT TRUNK CALL



SC 24

DIAL COMPLETION TIME OUT



SD-65742-01-E6

DIAL PULSE REGISTER CIRCUIT (2) SD-65742-01-E6

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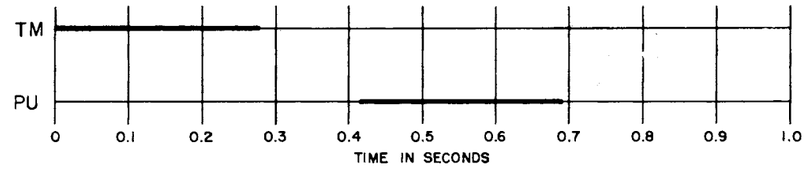
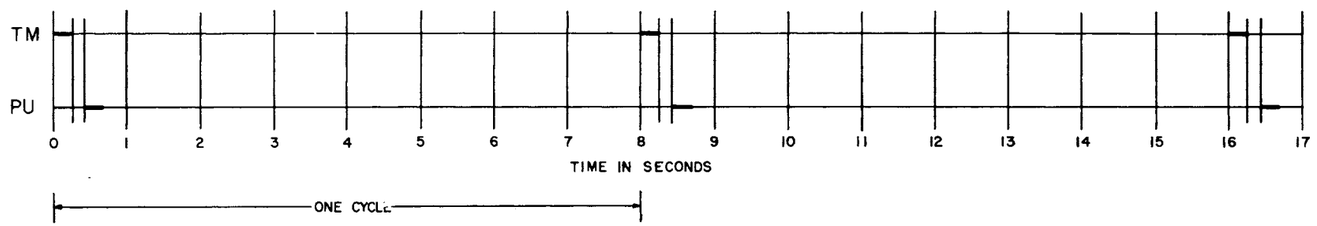
SC 25
INTERRUPTER OPERATION

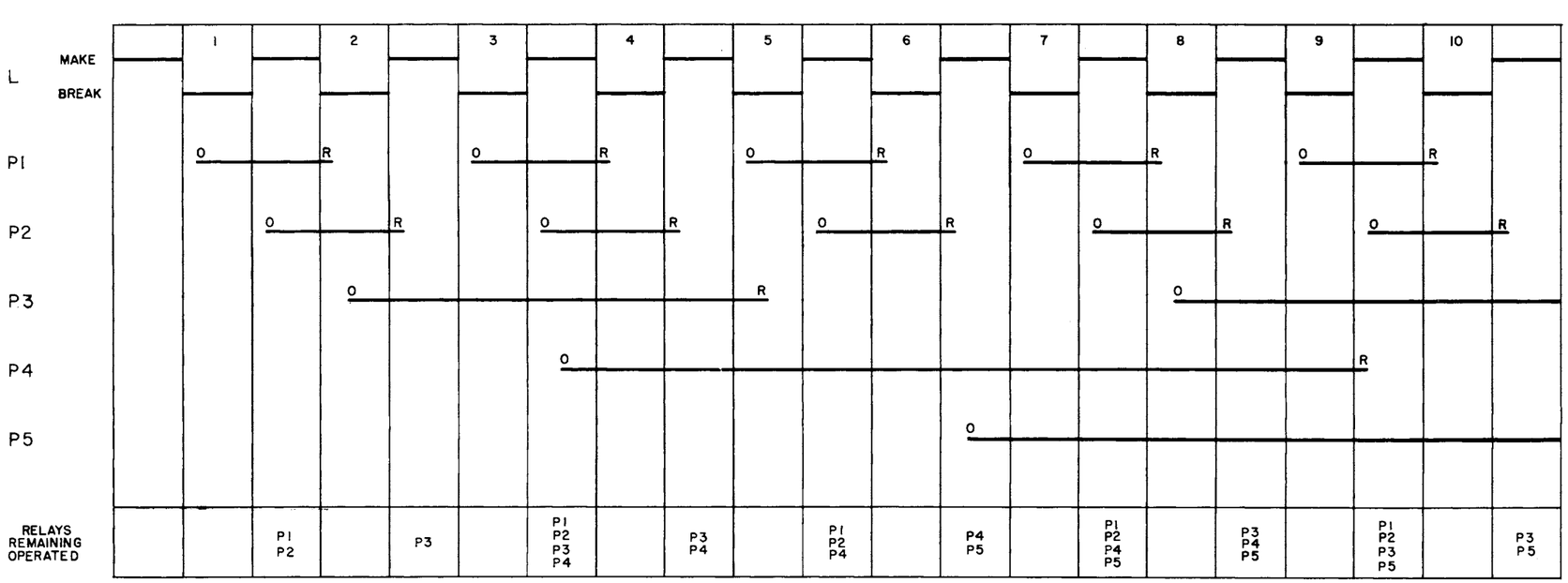
TM AND PU GROUND SIGNAL DURATIONS



PULSE REPETITION RATE



SC 26
SEQUENCE CHART FOR P1, P2, P3, P4, & P5 RELAYS



DRAWING ISSUE

1	J.C. P.A.S.
5B	J.A.S. A.A.C.
17B	E.G. W.W.P. P.D.

17

SD-65742-01-E7

PBX SYSTEMS
NO. 756A
DIAL PULSE REGISTER CIRCUIT (2)

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DRAWING ISSUE		
10B	E.S.	CRA PQB
15AR	LJL	WVH PD
18B	R.T	KB P.D.
19B	JJG	SJF PD
24B		
27D		PMC RHP

SC 27
DIRECT STATION SELECTION
BY ATTENDANT
(ZB OPTION)

ATTENDANT WITH PICKUP KEY OF CENTRAL OFFICE OR RINGDOWN TIE TRUNK OPERATED OPERATES DSS KEY AT CONSOLE — 20-89

POS–

H (CDLS POS)

HD (TRK) — SO

SP (CDLS POS) — HA (CDLS POS)

H (CDLS POS)

MKR CONNECTS TRUNK TO IDLE REGISTER

THM-9 (MKR) — THM-8 (MKR) — COT

L

SR

HMKA,B (MKR) — MKR RELEASES

ON — START PS & PD TIMING (SEE SC 10 & SC 11)

AC — UD — DC

REG- LAMP (MB CKT)

TD- — TENS LEAD TO MKR GROUNDED

UD- — UNITS LEAD TO MKR GROUNDED

AC

STOPS PS & PD TIMING

MKR CONNECTS TRUNK TO CALLED STATION OR TRUNK AND RELEASES

RRLA,B — BUSY LAMP AT CONSOLE CORRESPONDING TO CALLED STATION OR TRUNK

DC — ATTENDANT RELEASES DSS KEY

L — HA (CDLS POS)

TD- — UD-

RA

SR

SR

ON — THM-9 (MKR) — THM-8 (MKR) — REG- LAMP (MB CKT)

SR — COT — UD — RRLA,B

SR — RA

SC 28
SINGLE DIGIT DIALING (ZC OPTION & APP FIG. 5)
(SEE NOTE 1)
MKR CONNECTS CALLING STATION TO REGISTER

THM-8 (MKR) — THM-9 (MKR) — TLA/TLA,D/NONE

L

SR

ON — HMKA,B (MKR) — MKR RELEASES — REG- LAMP (MB CKT)

STARTS PS & PD TIMING (SEE SC 10 & SC 11)

DIAL TONE TO STATION

START OF FIRST DIGIT

L

DIAL PULSE — PI — RA

L

P2

L

DIAL PULSE 2 (LAST) — PI — P2A

P3

L

SR — P2

RA

TD2

SW — TENS LEAD T2 TO MKR GROUNDED

STR — P3

GRD CONNECTED TO SD THRU SD REL DIODE

48V REMOVED FROM TRANSISTOR. CAPACITOR VOLTAGE DECREASES UNTIL Z DIODE REACHES BREAKDOWN POINT. TRANSISTOR BASE POTENTIAL RISES TO POINT OF FORWARD BIAS.

APPROX 3 SEC

TXSTR POS BIASED

SD

UD — UD- — UNIT LEAD "0" TO MKR GROUNDED

DC

48V RESTORED TO RB RESISTOR

STOPS PS & PD TIMING

MKR COMPLETES CONNECTION IN SAME MANNER AS TWO DIGIT DIALED CALL

SC 29
STATION 21 CALLING STATION 57
(SEE NOTE 2)
TOUCH TONE CALLING INTO REGISTER
MKR CONNECTS CALLING STATION TO REGISTER

THM-8 (MKR) — THM-9 (MKR) — PREVIOUS MKR ACTION

L

SR — HMT (MKR)

REG- LAMP (MB CKT) — RHK (MKR) — HMK (MKR)

ON — MKR RELEASES

DIAL TONE TO STATION

DEPRESS 5 BUTTON

KRA — TD5 — GRD ON T5 LEAD TO MKR

P2A

TOUCH TONE 5 — RELEASES 5 BUTTON

KRA

SW

STR

DEPRESS 7 BUTTON

KRA — UD7 — GRD ON U7 LEAD TO MKR

UD

TOUCH TONE 7 — RELEASES 7 BUTTON

KRA

DC

R- (MKR)

RP- (MKR)

STOPS PS & PD TIMING

PU (IF OPERATED)

SW — STARTS DIAL COMPLETION TIMING (SEE SC 24)

MKR CONNECTS STATION 21 TO STATION 57 VIA A JUNCTOR AND RELEASES REGISTER AS IN SC1.

SHEET NOTES:

1. SC 28 ASSUMES THAT TENS GROUP 2 IS ARRANGED FOR SINGLE DIGIT DIALING.
2. SC29 ASSUMES TOUCH-TONE CALLING RECEIVING CIRCUIT IS TYPE C1.

21

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CIRCUIT REQUIREMENTS

NO. 756A DIAL PULSE REGISTER CKT. (DP REG)

APPARATUS DESIG	APPARATUS CODE	APPARATUS OPTION	APPARATUS FIG.	MECH REQT BSP FIG.	MECH REQT CONT PRESS.	MECH REQT ARM. TRVL.	CIRCUIT PREPARATION BLOCK OR INSULATE	CIRCUIT PREPARATION TEST CLIP DATA CONN BAT.	CIRCUIT PREPARATION TEST CLIP DATA CONN GRD	TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT TEST WDG	DIRECT CURRENT FLOW REQT TEST FOR	DIRECT CURRENT FLOW REQT AFTER SOAK MA.	DIRECT CURRENT FLOW REQT TEST MA.	DIRECT CURRENT FLOW REQT READJ MA.	REMARKS
RELAYS																	
AC	AJ202	ZB	2	500					U(AC)	GRD			0		42.5	40.5	
BY	AJ30		1	256					U(BY)	GRD			0		28.5	27	
COT	AF64		2	219			10(COT)	L(COT)		BAT.			0		11.1	10.6	
DC	AF55		3	26			1(DC)	L(DC)	U(DC)	B/G	1		0		37	35	
H1,H2, H3	295A		8					1 REL TST		BAT.	2		0		33		WRG OPTION Y1 IS PROVIDED.
H1 H2, H3	295A		8						1 REL TST	GRD	2		0		33		WRG OPTION YJ IS PROVIDED.
KPC	AF132	Q	2	61					U(KPC)	GRD			0		34	32.5	
KRA	AF16	Q,ZB	2	204					U(KRA)	GRD			0		30.5	29	
L	292A		3									P	0	36	17		
												P	NO		10		
												P	H		7.2		
												P	R		4.8		
												S	0		24.5		
												T	0		20.5		
L1,L2, L3,L4	295A		8					1 REL TST		BAT.	2		0		33		WRG OPTION Y1 IS PROVIDED.
L1,L2 L3,L4	295A		8						1 REL TST	GRD	2		0		33		WRG OPTION YJ IS PROVIDED.
ON	AF132		2	61					U(ON)	GRD			0		34.5	32.5	
OT	AF120		3	406			4B(TMO)		U(OT)	GRD			0		20.5	19.5	
P1	AF515		1	31					U(P1)	GRD			0		95	90	
P2	AF518		1	224			12(P2)		U(P2)	GRD			0		105	95	

TEST NOTES:
1. BUSY REGISTER BY INSERTING PLUG IN "TST" JACK.
2. DISENGAGE CONNECTOR ON BACK OF RECEIVER.

DRAWING ISSUE

1	J.C. F.G.S. W.S.
4B	C.M. J.B.S. T.E.B.
5B	CAS. L.H.E. P.O.B.
9B	V.S. M.R. T.E.B.
10B	E.S. K.R.A. P.O.B.
15AR	L.J.L. W.H.H. P.D.
18B	R.T. K.B. P.D.
19B	J.J.G. S.J.F. P.D.
22D	E.W.E. S.A.K. K.F.J.
26D	F.E.D. P.J.S. R.H.R.

(2 PAGES) PAGE 1

DIAL PULSE REGISTER CIRCUIT — SD-65742-01-F1

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SD-65742-01-F1

CIRCUIT REQUIREMENTS

APPARATUS DESIG	APPARATUS CODE	APPARATUS OPTION	APPARATUS FIG.	MECH REQT BSP FIG.	MECH REQT CONT PRESS.	MECH REQT ARM. TRVL.	CIRCUIT PREPARATION BLOCK OR INSULATE	CIRCUIT PREPARATION TEST CLIP DATA CONN BAT.	CIRCUIT PREPARATION TEST CLIP DATA CONN GRD	TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT TEST WDG	DIRECT CURRENT FLOW REQT TEST FOR	DIRECT CURRENT FLOW REQT AFTER SOAK MA.	DIRECT CURRENT FLOW REQT TEST MA.	DIRECT CURRENT FLOW REQT READJ MA.	REMARKS
P2A	AF63	ZX	1	229			6B(P2A)		U(P2A)	GRD			0		7.	6.7	
P2A	AK30	ZY,YH		202			6B(P2A)		IL(P2A)	GRD			0		23.5	22	1/2 AK
P3	AF515		1	31			(P2A)C		U(P3)	GRD			0		95	90	
P4	AF515		1	31			(P2)O		U(P4)	GRD			0		95	90	
P5	AF515		1	31					U(P5)	GRD			0		95	90	
PU	AF65		2	401			(DC)NC		U(PU)	GRD			0		36	34	
POS1,2	AJ5	Q	4	220					U REL TST	GRD			0		13.2	12.6	
POS1,2	AJ202	ZB	4	500					U REL TST	GRD			0		42.5	40.5	
RA	AG35		1	67B					IU(RA)	GRD		P	0	FS	31.5	30	SHORT CIRCUIT SECONDARY WDG.
									IU(RA)	GRD		P	H	FS	4.7	4.4	WHEN TESTING (RA) NOT WIRED
									IU(RA)	GRD		P	R	FS	3.3	3.6	IN CKT
RRLA	1/2 AK5		2	4					IL(RRLA)	GRD			0		16.5	15	MOUNTED WITH (RRLB)
RRLB	1/2 AK5		2	4					IU(RRLB)	GRD			0		16.5	15	MOUNTED WITH (RRLA)
RT	AF63		2	229					U(RT)	GRD			0		7.1	6.7	
RV	AF118		1	401				L(RV)	U(RV)	B/G			0		14.	13.3	
SD	AJ83		5	249			8(SD)	L(SD)	U(SD)	B/G	5		0		13.2	12.6	
SR	AG15		2	221					U(SR)	GRD			0	FS	18.5	17.5	REMOVE (L) RELAY BEFORE
									U(SR)	GRD			H	FS	2.5	2.3	TESTING (SR) RELAY
									U(SR)	GRD			R	FS	0.5	0.8	
STR	AJ12		3	220					U(STR)	GRD			0		49.5	47	
STR1	295A		8					I(STR1)		BAT.	4		0		33		WRG OPTION Y1 IS PROVIDED.
STR1	295A		8						I(STR1)	GRD	4		0		33		WRG OPTION YJ IS PROVIDED.
SW	AF114		3	54					U(SW)	GRD			0		24.5	23	
TD1, TD2, TD3, TD4, TD5	293A		3				(ON)O, 8B(TMO), 6B&11B(TR), 5B(OT)			GRD	1,2		0		9.5		
										GRD	1,3		0		15		
TD6, TD7, TD8, TD9, TD0	293A		3				(ON)O, 8B(TMO), 6B&11B(TR) 5B(OT)			GRD	1,2		0		9.5		
										GRD	1,3		0		15		

TEST NOTES:

1. PROCEDURE FOR TESTING DRY REED RELAYS
   CONNECT TEST SET GRD. TO TERMINAL OF RELAY UNDER TEST (15, 25, 35, 45, 55)
   CONNECT DIRECT BATTERY TO TERMINAL L2 OF TEST SET
   PLACE L KEY IN NEUTRAL POSITION
   CONNECT SLEEVE OF TST T AND R JACK TO LOAD CONTACT (12, 22, 32, 42, 52)
   ADJUST RED RHEOSTAT 4 AND THE THREE (4) SWITCHES FOR MINIMUM RESISTANCE

STEP	ACTION	INDICATION	CHECK
A	ADJUST BLACK RHEOSTATS 1, 2, AND 3 TO OBTAIN CURRENT FLOW DESIRED FOR TEST		
B	CONNECT THE TIP OF THE 4W JACK TO TERMINAL (54) OF THE RELAY GROUP UNDER TEST.		
C	CLOSE OPERATE KEY	LAMP LIGHTS	CLOSURE OF LOAD CONTACT
D	CLOSE 4 KEY AND OPEN OPERATE KEY	LAMP REMAINS LIGHTED	CLOSURE OF LOCKING CONTACT

1. (CONT)

STEP	ACTION	INDICATION	CHECK
E	OPEN 4 KEY	LAMP EXTINGUISHES.	OPEN OF LOAD CONTACT
F	CLOSE 4 KEY	LAMP REMAINS EXTINGUISHED	OPEN OF LOCKING CONTACT

2. BEFORE TURNOVER TEST REQUIREMENT.
3. AFTER TURNOVER TEST REQUIREMENT.
4. DISENGAGE CONNECTOR ON BACK OF RECEIVER.
5. USE CAUTION IN CONNECTING BATTERY AND GROUND TO PROPER TERMINALS.

DRAWING ISSUE

1	J.C. F.G.S. W.S.
4B	C.M. J.B.S. T.E.B.
5B	CAS. L.H.E. P.O.B.
9B	V.S. M.R. T.E.B.
10B	E.S. K.R.A. P.O.B.
15AR	L.J.L. W.H.H. P.D.
18B	R.T. K.B. P.D.
19B	J.J.G. S.J.F. P.D.
22D	E.W.E. S.A.K. K.F.J.
26D	F.E.D. P.J.S. R.H.R.

(2 PAGES) PAGE 2

DIAL PULSE REGISTER CIRCUIT (2) — SD-65742-01-F1

BELL TELEPHONE LABORATORIES, INC — DWG SIZE 6S

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CIRCUIT REQUIREMENTS

APPARATUS DESIG	CODE	OPT	FIG.		MECH REQT BSP FIG.	CONT PRESS.	ARM. TRVL	CIRCUIT PREPARATION BLOCK OR INSULATE	TEST CLIP DATA CONN BAT.	CONN GRD	TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT TEST WDG	TEST FOR	AFTER SOAK MA.	TEST MA.	READJ MA.	REMARKS
TLA	1/2AK2		2		1			12(TLA)	2U(TLA)		BAT.			0		15.5	14.5	MOUNTED WITH (TT)
TLD	AF52		2		19				L(TLD)		BAT.			0		29.5	28	
TMO	AJ12		2		220			1M(TMO),(OT)O	L(TMO)	U(TMO)	B/G			0		42.5	40.5	
TR	AJ3		3		226			2B,6B,12M (TR)		U(TR)	GRD			0		19	17	
TT	1/2AK2		2		1				2L(TT)		BAT.			0		15.5	14.5	MOUNTED WITH (TLA)
UD	AF57		3		210					U(UD)	GRD			0		27	25.5	
UD1-5	293A	Q,ZB	3					(ON)O, 6B(KRA)			GRD	1,2		0		9.5		
											GRD	1,3		0		15		
UD6-0	293A	Q,ZB	3					(ON)O, 6B(KRA)			GRD	1,2		0		9.5		
											GRD	1,3		0		15		

DRAWING ISSUE		
1	JC FGS	WS
4B	CM JBS	TEB
5B	CAS LHE	PDB
9B	VG MK	TEB
10B	ES CRA PDB	

TEST NOTES:

1. PROCEDURE FOR TESTING DRY REED RELAYS.
   CONNECT TEST SET GRD TO TERMINAL OF RELAY UNDER TEST (15,25,35,45,55).
   CONNECT DIRECT BATTERY TO TERMINAL L2 OF TEST SET
   PLACE L KEY IN NEUTRAL POSITION.
   CONNECT SLEEVE OF TST T AND R JACK TO LOAD CONTACT (12,22,32,42,52).
   ADJUST RED RHEOSTAT 4 AND THE THREE 4 SWITCHES FOR MINIMUM RESISTANCE.

STEP	ACTION	INDICATION	CLOSURE
A	ADJUST BLACK RHEOSTAT 1,2 AND 3 TO OBTAIN CURRENT FLOW DESIRED FOR TEST		
B	CONNECT THE TIP OF THE 4W JACK TO TERMINAL (54) OF THE RELAY GROUP UNDER TEST		

1. (CONT)

STEP	ACTION	INDICATION	CHECK
C	CLOSE OPERATE KEY	LAMP LIGHTS	CLOSURE OF LOAD CONTACT
D	CLOSE 4 KEY AND OPEN OPBW OPERATE KEY	LAMP REMAINS LIGHTED	CLOSURE OF LOCKING CONTACT
E	CLOSE 4 KEY	LAMP EXTINGUISHED	OPEN OF LOAD CONTACT
F	CLOSE 4 KEY	LAMP REMAINS EXTINGUISHED	OPEN OF LOCKING CONTACT

2. BEFORE TURNOVER TEST REQUIREMENT.
3. AFTER TURNOVER TEST REQUIREMENT.

(3 PAGES) PAGE 3

NO. 756A
DIAL PULSE REGISTER CIRCUIT

SD-65742-01-F2

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E-7423-A (10-60)

SD-65742-01-F2

22

DRAWING ISSUE		
1	JC PRS	WS
4B	CM JBS	TEB
5B	CAS LHE	PDB
9B	VS MK	TEB
10B	ES KM PDB	

HO

10

PBX SYSTEMS
NO. 756A
DIAL PULSE REGISTER CIRCUIT

SD-65742-01-F2

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SD-65744-01

SHEET INDEX

SHEET NO.	CONTENTS
1	SHEET INDEX CIRCUIT NOTES SUPPORTING INFORMATION
2	FS 1 TRAFFIC OVERFLOW REGISTERS FS 2 TRAFFIC PEG COUNT REGISTERS FS 3 TROUBLE PEG COUNT REGISTERS APP FIG. 1
3	CKT REQ TABLE

CIRCUIT NOTES:

101.

DESIG	FUSE AMP	POTENTIAL	ONE PER	TERM. DESIG

102.

FEATURE OR OPTION	PROVIDE		
	FIG.	APP OR WIR	QUANTITY
TRAFFIC REGISTERS	1		1 PER PBX

103.

NETWORK VALUES		
NETWORK NO.	RESISTANCE IN OHMS	CAPACITANCE IN UF

104.

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 CIRCUITS			
				STD	A & M	MD	

SUPPORTING INFORMATION

CATEGORY	NO.
756A PBX CABLING DRAWING EQUIPMENT DRAWING TRAFFIC REGISTER CABINET FOR EXTERNAL REGISTERS	SD-65746-01 ED-65869-01 J-58857

DWG ISSUE	CD ISSUE	DATE ISSUED	DRAWN	APP'D
1	1	4-9-56	A.Z. W.V.H.	RDW RLL
2D	1 APP ID	7-29-65	RKU SAK RHB	RHB RAV GFH

SD-65744-01

PBX SYSTEMS
NO. 756A
TRAFFIC REGISTER CIRCUIT
FOR INTERNAL TRAFFIC
AND TROUBLE REGISTERS
(2)
(TR REG)

AT&TCO STANDARD

SD-65744-01-1
3 SHEETS

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2

SD-65744-01-1

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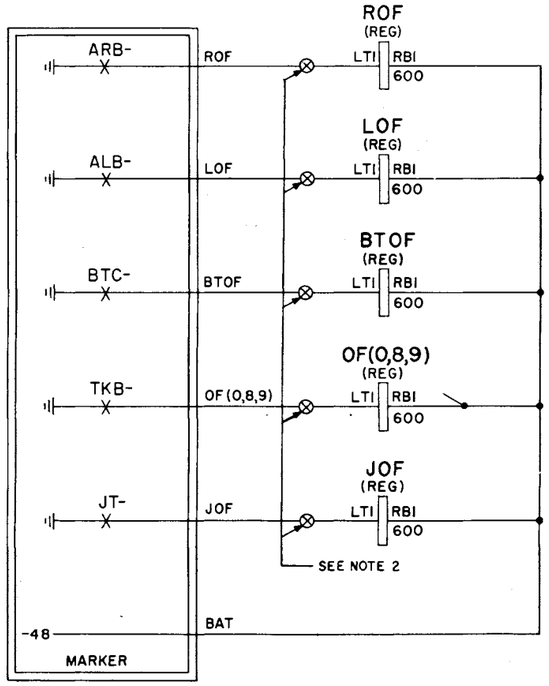
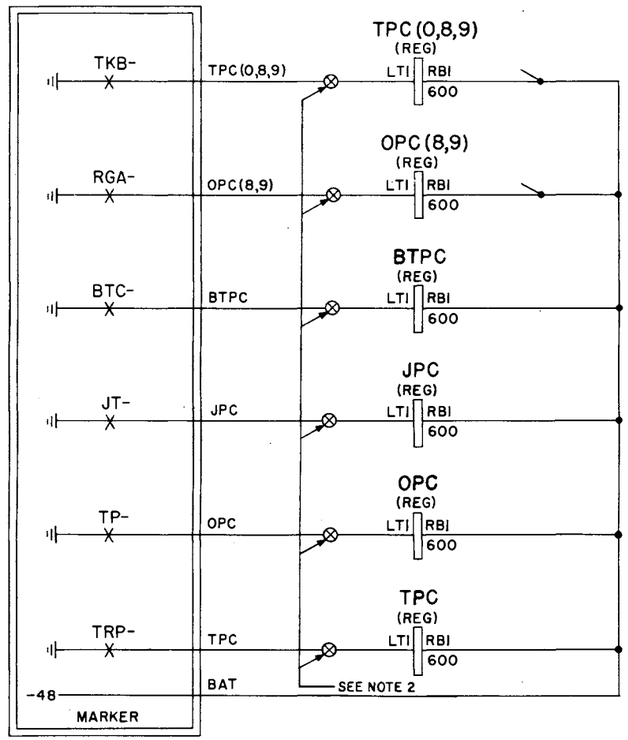
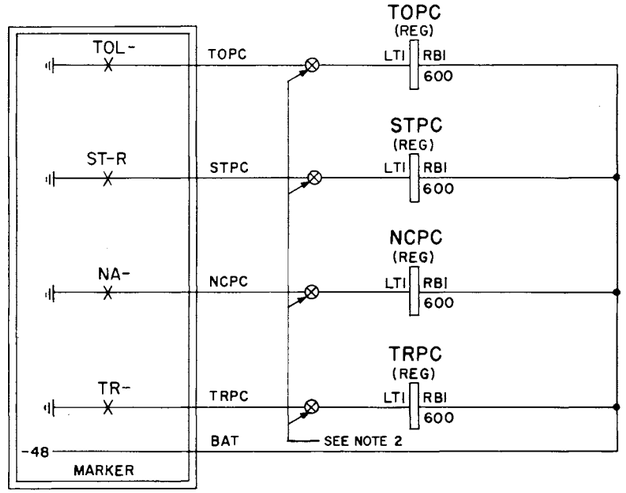
FS 1
TRAFFIC OVERFLOW REGISTERS



FS 2
TRAFFIC PEG COUNT REGISTERS



FS 3
TROUBLE PEG COUNT REGISTERS



APP FIG. 1

[6] REGISTERS, MESSAGE
14E
REG 1-6 (NOTE 1)

LEAD DESIG	LOC
BTOF	2B1
BTPC	2B5
JOF	2C1
JPC	2C5
LOF	2B1
NCPC	2B8
OFO	2C1
OF8	2C1
OF9	2C1
OPC	2D5
OPC8	2B5
OPC9	2B5
ROF	2A1
STPC	2B8
TOPC	2A8
TPC	2D5
TPCO	2A5
TPC8	2A5
TPC9	2A5
TRPC	2C8

SHEET NOTES:
1. A MAXIMUM OF 6 PEG OR OVERFLOW COUNTS MAY BE MADE ON INTERNAL REGISTERS. ADDITIONAL COUNTS MAY BE MADE ON TEN EXTERNAL REGISTERS.
2. TRAFFIC REGISTER CONTROL LEADS FROM THE MARKER MAY BE CROSS CONNECTED AS REQUIRED TO INTERNAL AND EXTERNAL REGISTERS TO RECORD VARIOUS TYPES OF OVERFLOW (OF) AND PEG COUNT (PC) DATA.

DRAWING ISSUE

1	AZ	W.S.
	MWH	
2D	RKU	
	SAK	
	GFH	

2

NO. 756A
TRAFFIC REGISTER CIRCUIT (2)

SD-65744-01-2

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DWG SIZE 6S

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E-7420 (1-55)

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CIRCUIT REQUIREMENTS

TRAFFIC REGISTER CIRCUIT (TR REG)

APPARATUS				MECH REQT			CIRCUIT PREPARATION			TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT					REMARKS
LEAD DESIG	CODE	OPTION	FIG.	BSP FIG.	CONT PRESS	ARM. TRVL	BLOCK OR INSULATE	TEST CLIP DATA				TEST WDG	TEST FOR	AFTER SOAK	TEST	READJ	
								CONN BAT.	CONN GRD					MA.	MA.	MA.	
REGISTERS																	
BTOF	14EM.R.		1	1					LTI M.R.	GRD			0		31.5	30	
BTPC			1						LTI TST	GRD			R		3.8	4	
JOF			1														
JPC			1														
LOF			1														
NCPC			1														
OFO			1														
OF8			1														
OF9			1														
OPC			1														
OPC8			1														
OPC9			1														
ROF			1														
STPC			1														
TOPC			1														
TPC			1														
TPCO			1														
TPC8			1														
TPC9			1														
TRPC			1														

DRAWING ISSUE	
1	AZ WVH
2D	RKU SAK GFH

SD-65744-01-3

E-7423-A (3-63)

NO. 756A TRAFFIC REGISTER CIRCUIT	SD-65744-01-3
BELL TELEPHONE LABORATORIES, INC	PRINTED IN U. S. A.

DRAWING ISSUE
1 AZ WVH
2D RKU SAK GFH

2

NO. 756A TRAFFIC REGISTER CIRCUIT
SD-65744-01-3

BELL TELEPHONE LABORATORIES, INC

DWG SIZE 6S

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SHEET INDEX

SHEET NO.	CONTENTS
1	SHEET INDEX LEAD INDEX OPTION INDEX CIRCUIT NOTES SUPPORTING INFORMATION TRANSMISSION TEST REQT TABLE
2	FS 1 DIAL CONFERENCE CKT FS 2 MARKER STRAPPING APP FIG. 1
3	CKT REQ TABLE CAD 1

LEAD INDEX

DESIG	FS LOC
TO LINE, LINK AND MARKER CKT (LINE CKT FOR STA LINES OR TRKS) TERM. 80 OR 85	
R2	2B0
S2	2B0
T2	2A0
TO LINE, LINK AND MARKER CKT (LINE CKT FOR STA LINES OR TRKS) TERM. 81 OR 80	
R2	2C0
S2	2C0
T2	2B0
TO LINE, LINK AND MARKER CKT (LINE CKT FOR STA LINES OR TRKS) TERM. 82 OR 87	
R2	2D0
S2	2D0
T2	2D0
TO LINE, LINK AND MARKER CKT (LINE CKT FOR STA LINES OR TRKS) TERM. 83 OR 86	
R2	2B6
S2	2D6
T2	2A6
TO LINE, LINK AND MARKER CKT (LINE CKT FOR STA LINES OR TRKS) TERM. 84 OR 89	
R2	2D6
S2	2D6
T2	2C6

OPTION INDEX

APP OR WRG	LOCATION
Z	2A3, 2B8, 2C8
Y	2A3
X	2A5, 2B4, 2B5, 2C5, 2D6, 2E4,
W	2A5, 2B4, 2B5 2C4, 2C6, 2D5, 2E4, 2E5

CIRCUIT NOTES:

101.

DESIG	FUSE AMP	POTENTIAL	ONE PER	TERM. DESIG
T80 OR T85	1-1/3	48V	CIRCUIT	

BATTERY SYMBOL: -48 — VOLTAGE RANGE: 45–52V

102.

FEATURE OR OPTION	PROVIDE FIG.	APP OR WRG	QUANTITY
DIAL CONFERENCE CIRCUIT	1		1 PER CKT

103.

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

104. RECORD OF FIGURES, WIRING AND APPARATUS CHANGES

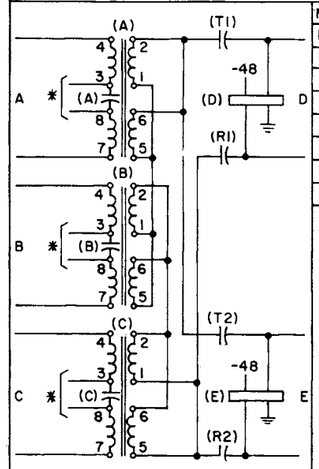
CHANGED ON ISS	IF JOB RECORDS DO NOT SPECIFY	THIS OPTION WAS FURN	SEE NOTE	USE IN CIRCUIT STD	A & M	MD	
4D	Y OR Z	Z		Y		Z	
5AC	W OR X	X	105	W		X	

105. WHEN ISSUE 16B LINE LINK AND MARKER CIRCUIT SD-66741-01 WITH YC OPTION IS PROVIDED, W OPTION MUST BE PROVIDED WITH THIS CIRCUIT.

SUPPORTING INFORMATION

CATEGORY	NO.
756A PBX CABLING DIAGRAM	SD-65746-01
EQUIPMENT DRAWING	ED-65871-01
EQUIPMENT INFO	J58829S-( )

TRANSMISSION TEST REQUIREMENTS
(1000 CYCLE LOSS BETWEEN 600Ω LINES)



MAX ALLOWABLE CKT LOSS(db) MEASURE FROM	TO	TERMINATE WITH 600Ω	LOSS (db)
A	D	B, C & E	9
A	E	B, C & E	9
B	D	A, C & E	9
B	E	A, C & E	9
C	D	A, B & E	9
C	E	A, B & E	9

ALLOWABLE INDIVIDUAL APPARATUS LOSSES (db)

APPARATUS	DESIG	CODE	MAX LOSS	MIN LOSS	REMARKS
CAPACITOR	A, B, C, TI, T2, RI, R2	2 UF	13.7	11.7	
RELAY	D, E	AJ24	0.2		
REP COIL	A, B, C	202A	3.5	2.3	WINDINGS 2,1 & 6,5 IN PARALLEL

* INDICATES APPARATUS FOR WHICH IND LOSSES ARE NOT REQD

DWG ISSUE	CD ISSUE	DATE ISSUED	DRAWN	APP'D
1	1	4-30-56	R.S. WR.P	R.A.P. H.A.A.
2D	2D	3-13-59	J.F. M.S.	W.K.S. P.W.S.
3D	3D	8-5-59	P.T.K. S.P.	W.K.S. P.W.S.
4D	4D	5-12-60	EMPTY R.T.R.	H.D.D. P.W.S.
5AC	5AC	3-7-63	KLP RCA	J.S. H.F.N. P.R.
6D	5AC APP ID	12-28-67	ROZ ARR	RRS LAH RHP

SD-65745-01-1

SD-65745-01 2J07

PBX SYSTEMS
NO. 756A
DIAL CONFERENCE CIRCUIT
ARRANGED FOR A MAXIMUM OF 5 SIMULTANEOUS CONNECTIONS (2)
(DIAL CONF)

A&M ONLY 6

SD-65745-01-1
3 SHEETS

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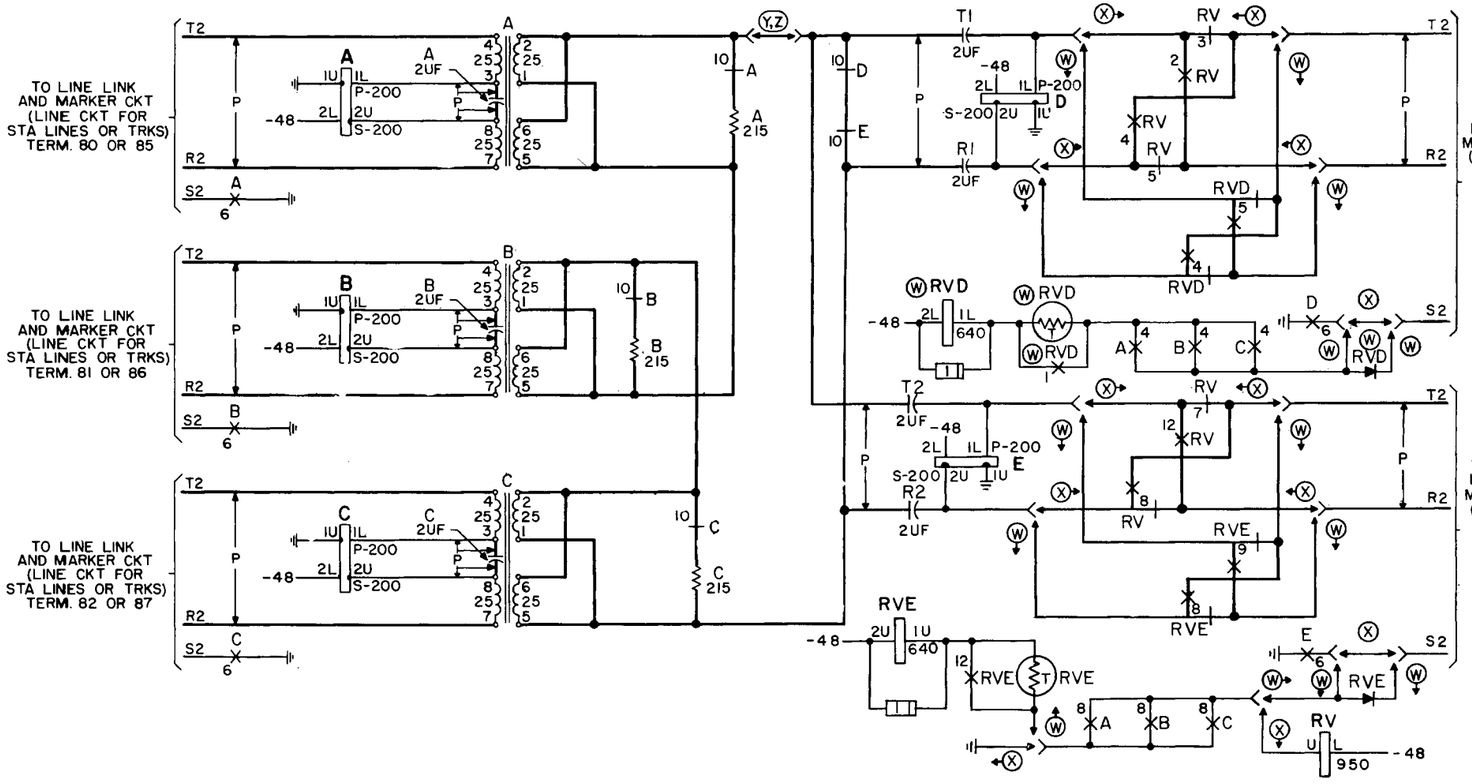
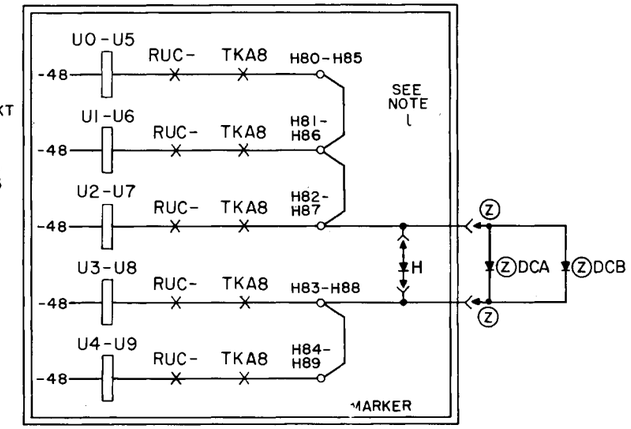
FS 1
DIAL CONFERENCE CKT



FS 2
MARKER STRAPPING



SHEET NOTES:
1. ASSIGN DIAL CONFERENCE CKT TO TERM. 80,81,82, 83 AND 84 OR TO TERM. 85,86,87,88 AND 89.
2. TERMS. 80,81 AND 82 OR 85,86 AND 87 ARE FOR USE BY STATION LINES AND TERMS. 83 AND 84 OR 88 AND 89 ARE FOR USE BY STATION LINES OR TRUNKS.
3. TO REDUCE THE POSSIBILITY OF NOISE PICKUP IN THIS CIRCUIT, FROM THE RECTIFIER, THIS CIRCUIT SHOULD BE MOUNTED IN SLIDE 2 PLATES AB OR AA, OR IN SLIDE 3 PLATE AB.

APP FIG. 1

DESIG	A		B		C		D		E		RV		RVE		RVD		DESIG
CODE	AJ26		AJ26		AJ26		AJ24		AJ24		AF 120		AK 30				CODE
OPTION											X		W				OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12											EM		M	2E4			12
11													EBM				11
10	B	2A3	B	2B2	B	2D3	B	2A3	B	2B3	EBM		EBM				10
9													EMB	2D5			9
8	M	2E4	M	2E5	M	2E5					EBM	2D4	EMB	2D5			8
7											B	2C5					7
6	BM	2B1	BM	2C1	BM	2D1	M	2C5	M	2D5	EBM						6
5											B	2B5			EMB	2B5	5
4	M	2C4	M	2C5	M	2C5					PM	2B5			EMB	2C5	4
3											B	2A5			EBM		3
2											EM	2A5			EBM		2
1															M	2C4	1
COIL		2A1		2C1		2D1		2A4		2C4		2E5		2D3		2C4	COIL

CAPACITOR

DESIG	LOC	CODE
A	2B2	439A
B	2C2	439A
C	2D2	439A
R1	2B4	437E
R2	2D4	437E
T1	2A4	437E
T2	2B4	437E

DIODE

DESIG	LOC	CODE
(W) RVD	2C6	420G
(W) RVE	2E6	420G

NETWORK

DESIG	LOC	CODE
(W) RVD	2C4	185A
(W) RVE	2D3	185A

RESISTOR

DESIG	LOC	CODE
A	2B3	106A,215
B	2C2	106A,215
C	2D3	106A,215

THERMISTOR

DESIG	LOC	CODE
(W) RVD	2C4	8A
(W) RVE	2E4	8A

TRANSFORMER

DESIG	LOC	CODE
A	2B2	202A REP COIL
B	2C2	202A REP COIL
C	2D2	202A REP COIL

VARISTOR

DESIG	LOC	CODE
(Z) DCA	2C8	KS-15724,L2
(Z) DCB	2C9	KS-15724,L2

DRAWING ISSUE		
1	R.S. WRP	W.
2D	J.F. M.S.	P.L
3D	P.T.P. S.P.	P.D
4D	EAFT R.T.R.	F.C.
5AC	A.H.A. R.C.A. P.D.	
6D	ROZ RHP	H0 HW

DIAL CONFERENCE CIRCUIT (2)

BELL TELEPHONE LABORATORIES INCORPORATED

DWG SIZE 6S

SD-65745-01-2

6

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CIRCUIT REQUIREMENTS

NO. 756A DIAL CONFERENCE CIRCUIT (DIAL CONF)

APPARATUS					MECH REQT			CIRCUIT PREPARATION					DIRECT CURRENT FLOW REQT					REMARKS
DESIG	CODE	OPTION	FIG		BSP FIG.	CONT PRESS.	ARM. TRVL.	BLOCK OR INSULATE	TEST CLIP DATA CONN BAT.	TEST CLIP DATA CONN GRD	TEST SET PREP	SEE TEST NOTE	TEST WDG	TEST FOR	AFTER SOAK MA.	TEST MA.	READJ MA.	
RELAYS																		
A,B, C	AJ26		1		55B				IL REL IL TST	2U REL 2U TST	M M	1,2 1,2	P/S P/S	O R		16.5 6.5	15.5 6.8	
D,E	AJ24		1		52B				IL REL IL TST	2U REL 2U TST	M M		P/S P/S	O R	31 31	20 8.8	19 9.3	
RV	AF120	X	1		406					U (RV) U (RV)	GRD GRD			O NO		20.5 13.8	19.5 14.5	
RVD	V2AK30	W	1		202			(D) NO		IL (RVD)	GRD			O		23.5	22	MOUNT WITH (RVE)
RVE	V2AK30	W	1		202			(E) NO		1U (RVE)	GRD			O		23.5	22	MOUNT WITH (RVD)

TEST NOTES:

1. ARMATURE BACK TENSION MINIMUM 20 GRAMS READJUST, 15 GRAMS TEST.
2. ADJUSTED ON LIGHT CONTACT PRESSURE.

DRAWING ISSUE

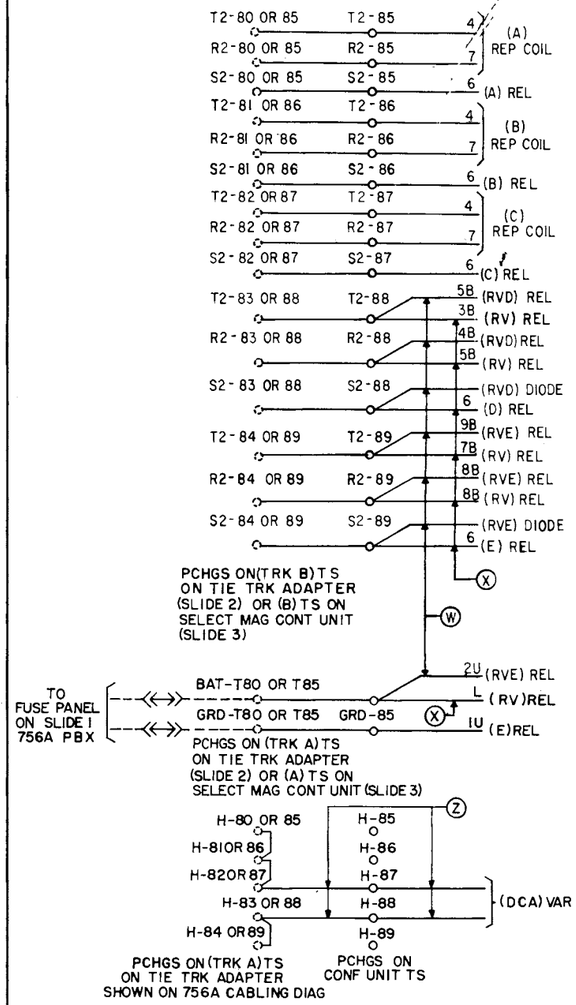
1	RS, WRP	WS
2D	J.F.	P.D.
3D	P.T.K. S.F.	P.D.
4D	BPT R.T.R.	F.C.
5AC	KLD	
	PD	
6D	ROZ	HW
	RHP	

SD-65745-01-3

DIAL CONFERENCE CIRCUIT	SD-65745-01-3
BELL TELEPHONE LABORATORIES, INC	PRINTED IN U.S.A.

E-7423-A (3-63)

CAD. 1



DRAWING ISSUE

1	RS, WRP	WS
2D	J.F. M.S.	P.D.
3D	P.T.K. S.F.	P.D.
4D	BPT R.T.R.	F.C.
5AC	KLD RCA PD	NY HW
6D	ROZ RHP	HW

DIAL CONFERENCE CIRCUIT (2)	SD-65745-01-3
BELL TELEPHONE LABORATORIES, INC	DWG SIZE 6S
	PRINTED IN U.S.A.

6

TCI Library www.telephonecollectors.info

TCI Library www.telephonecollectors.info

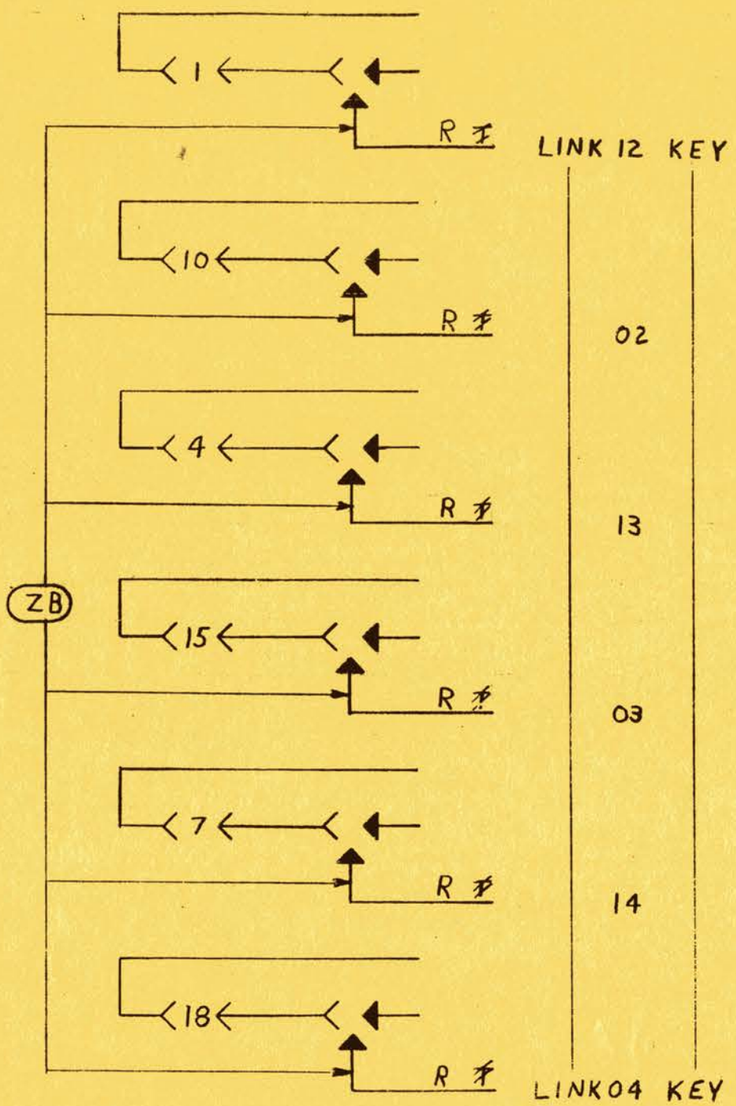
DESCRIPTION

15 3/4

10 5/8

ITEM 1:

SHEET G22 SLIDE 2 PLUG N CAD 1



APPARATUS CHANGES

NONE

PRODUCT AFFECTED/TITLE

NO. 756A
PBX CABLING DIAGRAM

SHEET 1 OF 3

SYSTEM: PBX

LDI ISSUE 41A

CODE OR DOCUMENT IDENTIFICATION: SD-65746-01

☐ APPARATUS ☐ EQUIPMENT ☒ CIRCUIT ☐ PROGRAM

☐ NEW ☒ CHANGE

WECO ENGR LOC: HW

APPARATUS NEW CODE ☐ COMPLETE ☐ PARTIAL-BALANCE SCHEDULED FOR _____

PROBABLE DEMAND _____

☐ DOES NOT REPLACE OR REDUCE THE DEMAND FOR ANY PRODUCT.

☐ DOES NOT REPLACE BUT REDUCES THE DEMAND FOR THE _____ BY _____

☐ RECOMMENDED IN PLACE OF THE _____ WHICH SHALL BE RATED ☐ A & M ONLY ☐ MFR DISC.

☐ REPLACES THE _____ WHICH SHALL BE RATED MFR DISC.

CUSTOMER: ☐ ASSOCIATE ☐ NON-ASSOCIATE

RATING: ☐ PROPOSED AT&TCO STD ☐ DISTRIBUTOR STD ☐ COMPONENT PART ☐ NOT YET STD BY AT&TCO ☐ OTHER _____

INITIAL USE:

APPARATUS CHANGE CHANGE CLASS _____

NEW AND OLD INTERCHANGEABLE? ☐ YES ☐ NO

CHANGE IN LIST OF COMPONENT APPARATUS:

USED ON CKT (CLASS A CHANGE ONLY)

REPAIRED PRODUCT AFFECTED? ☐ YES ☐ NO

APPARATUS GENERAL

TOOL MADE SAMPLES: QUANTITY REQUIRED _____

☐ WILL BE RETAINED BY BTL ☐ WILL BE RETURNED TO APPLY ON ORDERS

PRODUCT ☐ MAY BE ☐ SHALL NOT BE SHIPPED PRIOR TO SAMPLE APPROVAL

ASSOCIATED CKT DWG ☐ AFFECTED ☐ NOT AFFECTED

SD- _____ SCHED FOR ISS _____

PROGRAM CHANGE CLASS _____

GENERIC PROGRAM ISS _____

AT&TCO RATING _____

EQUIPMENT CODES:

EQUIPMENT CHANGE CLASS _____

AT&TCO RATING _____

ASSOCIATED CKT DWG _____ ISS _____

J-SPEC (BSP) AFFECTED? ☐ YES ☐ NO

REPAIRED PRODUCT AFFECTED? ☐ YES ☐ NO

CIRCUIT SCHEDULED FOR DWG ISS 44A DATE _____

ITEMS 1 CHARGE CASE _____

PROJECT 756A AT&TCO RATING STD

☐ ANALYZATION ☐ ENGR COMPLAINT EQUIPMENT CODES:

☐ BTL-NOT ON PROJECT ☒ WECO REQUEST J58829 C-( )

SERVICE AFFECTED? ☐ YES ☐ NO

CUSTOMER PREMISES EQUIPMENT AFFECTED? ☐ YES ☒ NO

COORD CIRCUITS:

SD-5E029-01 LDI 2A

REASON FOR CHANGE

ITEM 1:
TO CORRECT TERMINAL DESIGNATIONS OF THE THE 490C KEYS ON THE MAKE BUSY AND BUSY DISPLAY UNIT.

REFERENCES

ATTACHMENTS

NONE

ADDITIONAL DISTRIBUTION

REG	L

(TO BE COMPLETED BY WECO AND RETURNED TO BTL ENGR RECORDS AT LOC. _____, DEPT. _____)

PRINCIPAL WECO DWG OR BSRS ISSUE

WECO ENGR LOC TEL DATE

APPROVALS CKT DEPT. 5123 BTL CONTROL LOC WECO HW

CKT ENGR	DATE	CKT ENGR	DATE
CKT SUPV	DATE	CKT SUPV	DATE
R.C. Lotz APP'D	5-16-68	5123	
APP. EQPT. OR PROG ENGR	DATE	APP. EQPT. OR PROG DEPT.	
R.W. Fox	5-21-68		
APP. EQPT. OR PROG SUPV	DATE		

LAB
☐ BEFORE CKT ISS
☐ DEFERRED
☒ NON REQUIRED

R. C. Lotz — SIGNED — 5-16-68 DATE

A. J. Rose — WITNESSED AND UNDERSTOOD BY — 5-17-68 DATE

BELL TELEPHONE LABORATORIES, INCORPORATED

FORM 4480 4 (9-67)

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ITEM 1 CON'T :

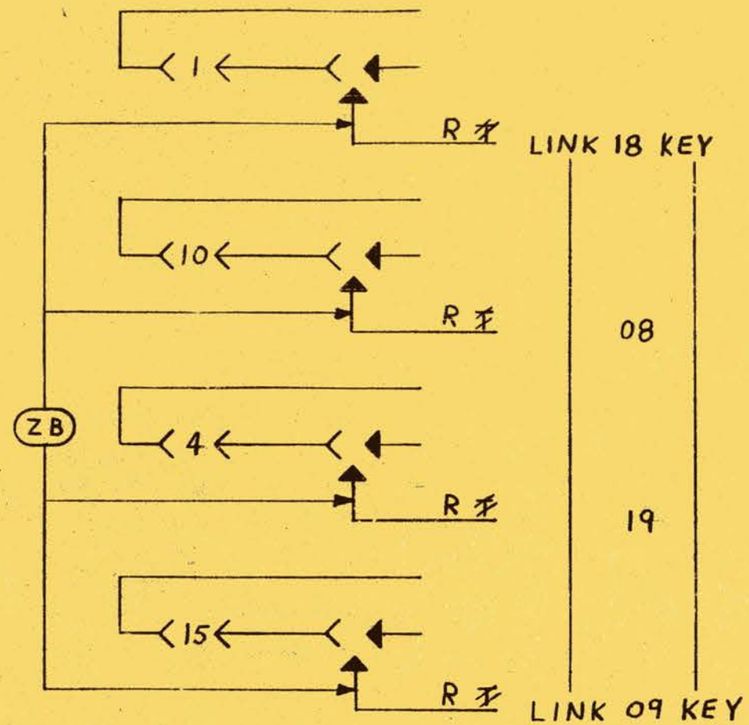
15-5/8

LDI ISSUE 41A | SHEET 2

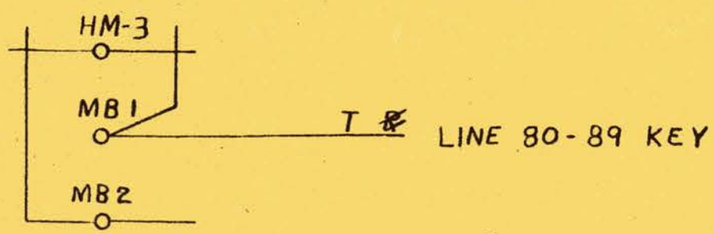
CODE OR DOCUMENT IDENTIFICATION

SD-65746-01

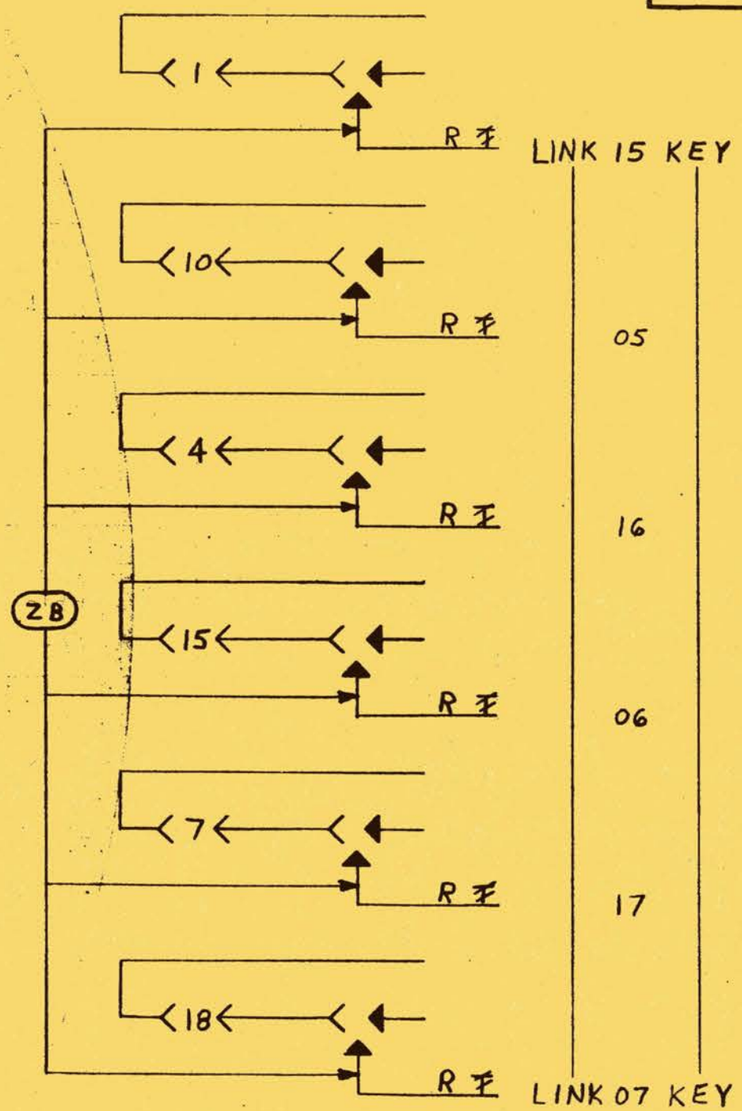
ON SHEET G24 SLIDE 2 PLUG R CAD 1



ON SHEET G62 SLIDE 2 T.S.D CAD 16



ON SHEET G25 SLIDE 2 PLUG P CAD 1



R. C. Katz 5-16-68
SIGNED DATE

R. R. Rose 5-17-68
WITNESSED AND UNDERSTOOD BY DATE

BELL TELEPHONE LABORATORIES, INCORPORATED

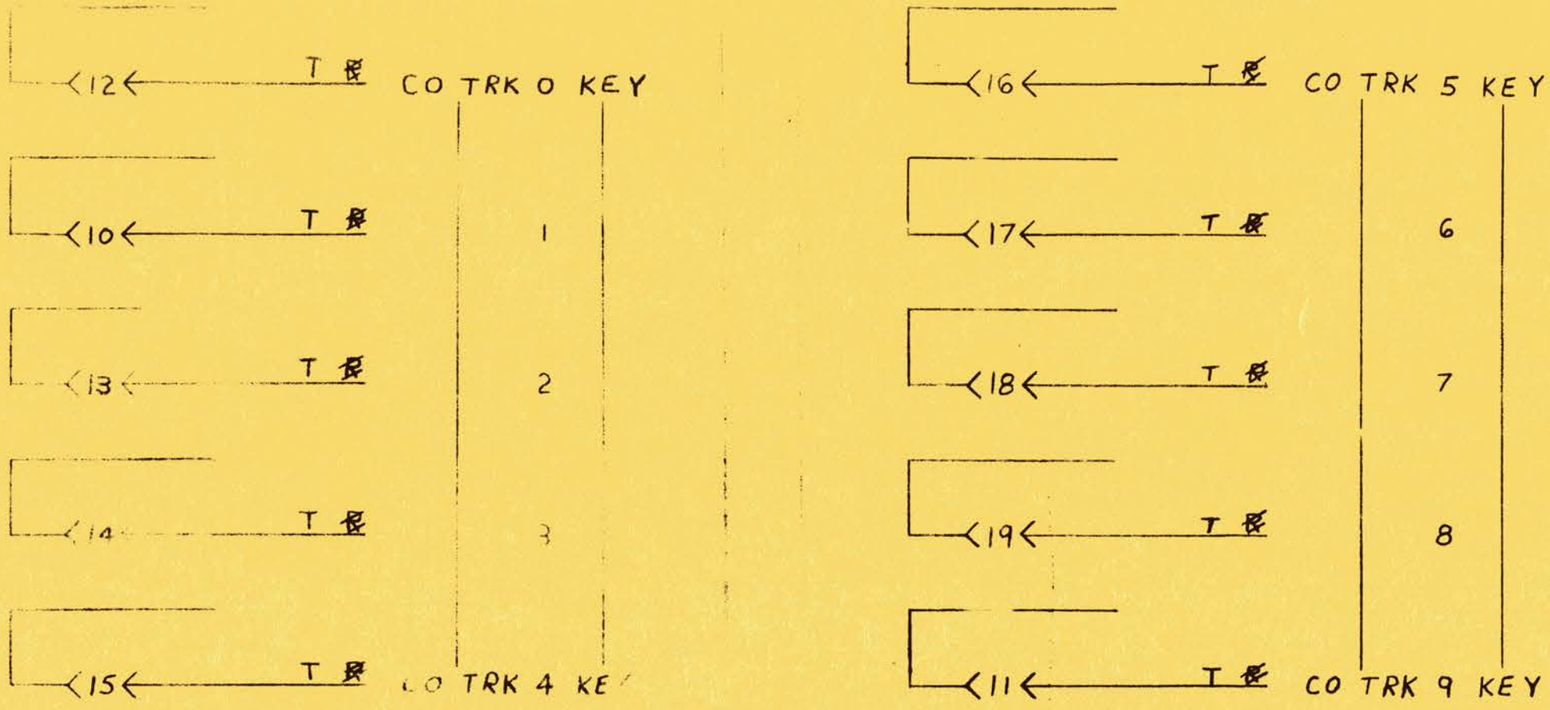
TCI Library www.telephonecollectors.info

ITEM 1 CON'T:

15-5/8

10-1/4

ON SHEET G112 SLIDE 2 PLUGAN CAP



LDI ISSUE 4 LA

SHEET 3

CODE OR DOCUMENT IDENTIFICATION

SD-65746-01

R. C. Lotz SIGNED 5-16-65 DATE

A. R. Rose WITNESSED AND UNDERSTOOD BY 5-17-65 DATE

BELL TELEPHONE LABORATORIES, INCORPORATED

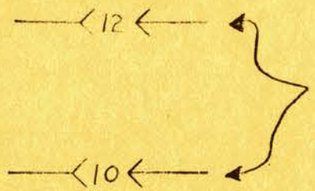
E-1480-5 (8-66)

TCI Library www.telephonecollectors.info

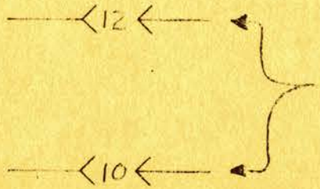
DESCRIPTION — 15 3/4 — 10 5/8

ITEM 1

ON SHEET G3 SLIDE 2 PLUG C



ON SHEET G12 SLIDE 4 PLUG J



APPARATUS CHANGES

NONE

PRODUCT AFFECTED/TITLE

PBX SYSTEMS
NO. 756A
PBX CABLING DIAGRAM

SHEET 1 OF 3

SYSTEM: PBX

LDI ISSUE 41B

CODE OR DOCUMENT IDENTIFICATION: SD-65746-01

☐ APPARATUS ☐ EQUIPMENT ☒ CIRCUIT ☐ PROGRAM

☐ NEW ☒ CHANGE

WECO ENGR LOC: HAWTHORNE

APPARATUS NEW CODE ☐ COMPLETE ☐ PARTIAL-BALANCE SCHEDULED FOR _____ PROBABLE DEMAND _____

☐ DOES NOT REPLACE OR REDUCE THE DEMAND FOR ANY PRODUCT.

☐ DOES NOT REPLACE BUT REDUCES THE DEMAND FOR THE _____ BY _____

☐ RECOMMENDED IN PLACE OF THE _____ WHICH SHALL BE RATED ☐ A & M ONLY ☐ MFR DISC.

☐ REPLACES THE _____ WHICH SHALL BE RATED MFR DISC.

CUSTOMER: ☐ ASSOCIATE ☐ NON-ASSOCIATE

RATING: ☐ PROPOSED AT&TCO STD ☐ DISTRIBUTOR STD ☐ COMPONENT PART ☐ NOT YET STD BY AT&TCO ☐ OTHER _____

INITIAL USE:

APPARATUS CHANGE — CHANGE CLASS _____

NEW AND OLD INTERCHANGEABLE? ☐ YES ☐ NO

CHANGE IN LIST OF COMPONENT APPARATUS:

USED ON CKT (CLASS A CHANGE ONLY)

REPAIRED PRODUCT AFFECTED? ☐ YES ☐ NO

APPARATUS GENERAL

TOOL MADE SAMPLES: QUANTITY REQUIRED _____

☐ WILL BE RETAINED BY BTL ☐ WILL BE RETURNED TO APPLY ON ORDERS

PRODUCT ☐ MAY BE ☐ SHALL NOT BE SHIPPED PRIOR TO SAMPLE APPROVAL

ASSOCIATED CKT DWG ☐ AFFECTED ☐ NOT AFFECTED

SD- _____ SCHED FOR ISS _____

PROGRAM — CHANGE CLASS _____

GENERIC PROGRAM ISS _____

AT&TCO RATING _____

EQUIPMENT CODES:

EQUIPMENT — CHANGE CLASS _____

AT&TCO RATING _____

ASSOCIATED CKT DWG _____ ISS _____

J-SPEC (BSP) AFFECTED? ☐ YES ☐ NO

REPAIRED PRODUCT AFFECTED? ☐ YES ☐ NO

CIRCUIT

SCHEDULED FOR DWG ISS 45A DATE _____

ITEMS 1, 2, 3 CHARGE CASE _____

PROJECT 756A PBX AT&TCO RATING STD

☒ ANALYZATION ☐ ENGR COMPLAINT

☐ BTL-NOT ON PROJECT ☐ WECO REQUEST

SERVICE AFFECTED? ☐ YES ☒ NO

CUSTOMER PREMISES EQUIPMENT AFFECTED? ☐ YES ☒ NO

EQUIPMENT CODES: J58829A

COORD CIRCUITS:

SD-5E029-01 LDI ISS 2B

SD-65752-01 LDI ISS 27B

REASON FOR CHANGE

ITEM 1

TO PROVIDE G AND H GROUNDS IN SLIDES 2 AND 4 FOR THE TRANSISTORIZED LINK TEST CIRCUIT.
THIS CHANGE IS USED ONLY WHEN ISSUE 41C OR LATER IS REQUIRED.

ITEM 2 CORRECTS COMPATIBILITY PROB. IN CO PLUG IN TRKS

ITEM 3 REMOVES -48V FROM SLEEVE OF PWR KEY

REFERENCES

ATTACHMENTS

NONE

ADDITIONAL DISTRIBUTION — REG — L

(TO BE COMPLETED BY WECO AND RETURNED TO BTL ENGR RECORDS AT LOC. _____, DEPT. _____)

PRINCIPAL WECO DWG OR BSRS — ISSUE

WECO ENGR — LOC — TEL — DATE

APPROVALS

CKT DEPT 5163 BTL CONTROL LOC MC 1 1

CKT ENGR — DATE — CKT ENGR — DATE

CKT SUPV — DATE — CKT SUPV — DATE

G. C. Lotz 6-13-68 — APP. EQPT. OR PROG DEPT. — DATE 6-14-68

LAD ☐ BEFORE CKT ISS ☐ INSERVICE ☒ NOT REQUIRED

BELL TELEPHONE LABORATORIES, INCORPORATED

R. C. Lotz — SIGNED — 6-13-68 DATE

A. R. Gross — WITNESSED AND UNDERSTOOD BY — 6-13-68 DATE

E-6460-4 (9-67)

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ITEM 1 CON'T

ON SHEET G49

LDI ISSUE 41B | SHEET 2

CODE OR DOCUMENT IDENTIFICATION

SD-65746-01

SLIDE 1 PLUG W	SLIDE 2 PLUG C	SLIDE 3	SLIDE 4 PLUG J	SLIDE 5	SLIDE 6 PLUG W	
12 ← NO CHANGE	12 ← 12M TKB8		12 ← 12M TKB9		12 ← NO CHANGE	G GRD
13 ← NO CHANGE	10 ← 11M TKB8		10 ← 11M TKB9		13 ← NO CHANGE	H GRD
	(22) SEE NOTE 1		(22) SEE NOTE 1			

NOTES:

1. OPTION 22 IS SHOWN ON SD-65741-01.

R.C.L.B. SIGNED	6 13 68 DATE
A.S. Rose WITNESSED AND UNDERSTOOD BY	6 13 68 DATE

BELL TELEPHONE LABORATORIES INCORPORATED

E-6460-5 (8-66)

TCI Library www.telephonecollectors.info

LDI ISSUE 4B | SHEET 3

CODE OR DOCUMENT IDENTIFICATION
SD-65746-01

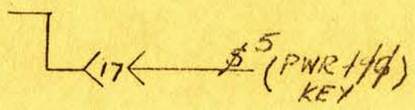
SHEET G-53 CAD 6

ADD STRAP BETWEEN TERMINALS 11 & 14 ON CO TRK T5
PER OPTION XH. (SEE NOTE 11)

ADD SHEET NOTE 11
11. STRAP ONLY ON C.O. TRKS. 6, 7, 8 OR 9 WHEN PBX IS NOT ARRANGED FOR MAKE BUSY DISPLAY.

ITEM 3

ON SHEET G-45
SLIDE 2 PLUG C PIN 17



R. C. Letz 6-20-68
SIGNED DATE

WITNESSED AND UNDERSTOOD BY DATE

BELL TELEPHONE LABORATORIES, INCORPORATED

E-8460-5 (8-68)

TCI Library www.telephonecollectors.info

SHEET INDEX

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LEAD INDEX		A2	36	36	38	39	40	41	42	42																																											A2
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INDEX OF OPTIONAL FEATURE		D2	31	31	31	31	31	31	42	42																																										D2
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		D4	36	36	38	38	38	38	42	42																																										D4
CIRCUIT NOTES		D5	36	36	38	38	38	41	41	43																																										D5
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		G4	36	36	36	36	36	36	36	36																																										G4
		G5	36	36	36	36	40	40	40	40																																										G5
		G6	9	9	9	9	9	9	9	9																																										G6
		G7	23	23	23	23	23	23	23	23																																										G7
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		G10	32	37	37	37	37	41	41	41																																										G10
		G11	23	23	23	23	23	23	23	23																																										G11
		G12	1	1	1	1	1	1	1	1																																										G12
		G13	1	1	1	1	1	1	1	1																																										G13
		G14	25	25	38	38	38	41	41	41																																										G14
		G15	36	36	38	38	38	38	38	38																																										G15
		G16	36	36	36	36	36	36	36	36																																										G16
		G17	35	35	35	35	35	35	35	35																																										G17
		G18	1	1	1	1	1	1	1	1																																										G18
		G19	12	12	12	12	12	12	12	12																																										G19
		G20	23	23	23	23	23	23	23	23																																										G20
		G21	9	9	9	9	9	41	41	41																																										G21
		G22	36	36	36	36	36	41	41	41																																										G22
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		G30	24	24	24	24	24	24	24	24																																										G30
		G31	34	34	34	34	34	34	42	42																																										G31
		G32	34	34	34	34	34	34	42	42																																										G32
		G33	34	34	34	34	34	34	34	34																																										G33
		G34	26	26	26	26	26	26	26	26																																										G34
		G35	24	24	24	24	24	24	24	24																																										G35
		G36	28	28	28	28	28	28	28	28																																										G36
		G37	28	28	28	28	28	28	28	28																																										G37

SUPPORTING INFORMATION

CATEGORY	NO.
NO. 756A SLIDE UNIT EQUIP	ED-65868-01
556A PBX CORD, TEL, DIAL	SD-65658-01
BATTERY, BUZZER & RING CKT	
DIAL PULSE REGISTER	SD-65742-01
LINE, LINK, & MARKER	SD-65741-01
ALARM, TRANS & INT	SD-66796-01
TRAFFIC REGISTERS-INTERNAL	SD-65744-01
JUNCTOR	SD-65750-01
CORDLESS POSITION	SD-65757-01
CO TRK	SD-65752-01
ATT TRK	SD-65753-01
BUSY TONE TRK	SD-65754-01
RINGDOWN TIE TRUNK	SD-65756-01
RINGING CKT INT EQPT	SD-81288-01
RINGING & TONE SUPPLY	SD-81325-01
POWER SUPPLY	SD-81326-01 SD-81326-02
FEATURE CABLING DIAGRAM	SD-66920-01
TRAFFIC REGISTERS-EXTERNAL	SD-5E010-01
MAKE BUSY & BUSY DISPLAY CKT	SD-5E029-01

SHEET INDEX NOTES

1. WHEN CHANGES ARE MADE IN THIS DRAWING, ONLY THOSE SHEETS AFFECTED WILL BE REISSUED.
2. 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.
3. THE ISSUE NUMBER ASSIGNED TO A CHANGED OR NEW SHEET WILL BE THE SAME ISSUE NUMBER AS THAT OF THE SHEET INDEX.
4. SHEETS THAT ARE NOT CHANGED WILL RETAIN THEIR EXISTING ISSUE NUMBER.
5. THE LAST ISSUE NUMBER OF THE SHEET INDEX IS RECOGNIZED AS THE LATEST ISSUE NUMBER OF THE DRAWING AS A WHOLE.

DWG ISS	CD ISSUE	DWG ISS	CD ISSUE	DWG ISS	CD ISSUE
8B	2B APP 5B	9D	2B APP 6D	10D	2B APP 7D
11B	2B APP 8B	12D	2B APP 9D	13D	2B APP 10D
14B	2B APP 11B	15D	2B APP 12D	16B	2B APP 13B
17D	2B APP 14D	18B	2B APP 15B	19B	2B APP 16B
20B	2B APP 17B	21D	2B APP 18D	22A	2B APP 19A
23B	2B APP 20B	24D	2B APP 21D	25D	2B APP 22D
26D	2B APP 23D	27D	2B APP 24D	28D	2B APP 25D
29D	2B APP 26D	30B	2B APP 27B	31D	2B APP 28D
32D	2B APP 29D	33A	2B APP 30A	34D	2B APP 31D
35D	2B APP 32D				

DWG ISSUE	CD ISSUE	DATE ISSUED	DRN	APPD
36D	2B APP 33D	5-18-67	JJR PJS UT	LAH RHP
37D	2B APP 34D	9-25-67	JJR PJS ARR	LAH RHP
38D	2B APP 35D	9-25-67	JJR SAK RHO	LAH RHP
39D	2B APP 36D	9-25-67	JJR SAK RCL	LAH RHP
40D	2B APP 37D	9-25-67 (1 pg.)	JJR SAK ARR	LAH RHP
41D	3D	1-2-68	WGN GK RCL	LAH RHP
42B	3D APP 1B	12-17-68	BMM PJS RCL	RVL LDJ
43B	3D APP 2B	12-17-68	REK PJS RHO	RVL LDJ

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SD-65746-01 1J07

PBX SYSTEMS
NO. 756A
PBX CABLING DIAGRAM
(2)

AT&TCO STANDARD

SD-65746-01-A1
128 SHEETS

BELL TELEPHONE LABORATORIES INCORPORATED

DWG SIZE 6S

PRINTED IN U.S.A.

D-65746-01-A1

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DESIG	FROM	TO	LOC
A(SD8,9)	MKR	MKR	22
A	ALM,TRANS & TST CKT	608A OR 608D SWBD	28
A	ATT TRK	CORD SWBD	31,32,93
A BAT	FUSE PANEL	MKR	48
A GRD	FUSE PANEL	MKR	48
A1-A3,A6	MKR	MKR	1
A4,A5	MKR	MKR	17
A7	MKR	MKR	10
A8-A11	MKR	MKR	16
A12	MKR	MKR	3
AC1-AC4	MKR	MKR	50
ACA	COTRK	ATT POS	34-37,93
ACA	ATT TRK	ATT POS	31,32,93
ACA	TIE TRK MTD IN SLD 2	ATT CDLS POS	29,55,92
ACA	CO TRK	REMOTE TRK ANS	54
ACG	CORDLESS POS CKT	ATT POS CORD SWBD OR KEY TEL SET	32,93
ACG1	CORDLESS POS CKT	REMOTE TRK ANS	32,93
AP1 BAT	FUSE PANEL	CORDLESS POS CKT	45
AP1 GRD	FUSE PANEL	CDLS POS CKT & ATT POS	45,28,92
AP1 GRD	FUSE PANEL	CORD SWBD	100
AP2 BAT	FUSE PANEL	CORDLESS POS CKT	45
AP2 GRD	FUSE PANEL	CORDLESS POS CKT & ATT POS	45 28,92
AP3,AP4 GRD	FUSE PANEL	ATT POS	28,92
AP5,AP6 GRD	FUSE PANEL	KEY TEL UNIT	28,92
AP1,AP8 GRD	FUSE PANEL	MAN. SWBD	28,59,92
ARB	CORD POS CKT	DP REG	79
ARB1,ARB2	CORD POS CKT	ATT POS	33,93
AT	MKR	MKR	23
AT1,AT2	CORDLESS POS CKT	ATT POS	32,93
ATO BAT	FUSE PANEL	MKR & ATT TRK	41 46
AO-A9 BAT	FUSE PANEL	STA MSG REG	107
AO-A9 GRD	FUSE PANEL	STA MSG REG	107
ATO GRD	FUSE PANEL	ATT TRK	46
AT1 BAT	FUSE PANEL	MKR & ATT TRK	41 45
AT1 GRD	FUSE PANEL	ATT TRK	45
AT2 BAT	FUSE PANEL	MKR & ATT TRK BUSY VERIF	41 45
AT2 GRD	FUSE PANEL	ATT TRK BUSY VERIF	45
ATG	ALM, TRANS & TEST CKT	ALM, TRANS & TST CKT	5
BDO-BD2	ATT TRK	MAKE BUSY	111
B20-B80	ALM, TRANS & TST CKT	ATT POS	79,94
BL	ATT TRK	CORD SWBD	32
BL20-BL79	MKR	ATT POS	76,94
B BAT.	FUSE PANEL	MKR	48
B GRD	FUSE PANEL	MKR	48
BGO-BG9	CO TRK	CORD SWBD	86,90
BT	CDLS POS CKT	BSY VERIF	43
BT	PWR PLANT RING INT CKT	BUSY TONE TRK & ATT, TRK & DP REG	14,113
BT BAT	FUSE PANEL	BUSY TONE TRK	42
BT GRD	FUSE PANEL	BUSY TONE TRK	42
BT1,BT2	CORDLESS POS CKT	ATT POS	32,93
BTOF	MKR	TR CKT	15
BTPC	MKR	TR CKT	15
BYE	MKR	CO TRK	14
BYO	MKR	CO TRK	14
BVS	BUSY VERIF	STA MSG REG	17,108
BZ	CORDLESS POS CKT	ATT POS &/OR 556A SWBD	32,33,93
C BAT	FUSE PANEL	MKR	48
C GRD	FUSE PANEL	MKR	48
CA	MKR	MKR	21
CO-C9	CO TRK	CORD SWBD	86,89
CO0-C07 BAT	FUSE PANEL	MKR & CO TRK	42 44
CO0-C09 BAT	FUSE PANEL	CORD SWBD	86,88
CO0-C07 GRD	FUSE PANEL	CO TRK	44
CO0-C09 GRD	FUSE PANEL	CORD SWBD	86,88
CO8 BAT	FUSE PANEL	MKR & CO TRK	43 46
CO8 GRD	FUSE PANEL	CO TRK	46
CO9 BAT	FUSE PANEL	MKR & CO TRK	43 45

DESIG	FROM	TO	LOC
CO9 GRD	FUSE PANEL	CO TRK	45
COA	CO TRK	INDICATION CAMP-ON	54
COD	MKR	STA MSG REG	108
COA	MKR	MKR	114
COSA	MKR	MKR	4
COSB	MKR	MKR	4
COT	MKR	MKR	4
CGO-CG9	CO TRK	CORD SWBD	86,90
CR	PWR PLANT RING INT CKT	RDT TRK & CO TRK MAN SWBD	46,38,113 28,92,113
CS	CO TRK	CDLS POS CKT	54
CSO-CS9	MKR	MKR	3
CW	MKR	CO TRK	14
D BAT	FUSE PANEL	MKR	47
D GRD	FUSE PANEL	MKR	47
DE	MKR	STA DIAL TRANS	50
DG	MKR	STA DIAL TRANS	50
DT	PWR PLANT RING INT CKT	T TRK & DP REG	15
E BAT	FUSE PANEL	MKR	47
E GRD	FUSE PANEL	MKR	38
EXT	ALM,TRANS & TST CKT	STA MSG REG	17,108
F BAT	FUSE PANEL	MKR	48
F GRD	FUSE PANEL	MKR	40
F1-F2	PWR PLANT RING INT CKT	CO TRK	46,113
FA BAT	FUSE PANEL	ALM,TRANS & TST CKT	38,45
FA GRD	FUSE PANEL	ALM,TRANS & TST CKT	45,51
FB	CDLS POS CKT	BSY VERIF	43
FB BAT	FUSE PANEL	ALM,TRANS & TST CKT	45
FB GRD	FUSE PANEL	ALM,TRANS & TST CKT	38,45
FC1-FC2	PWR PLANT RING INT CKT	CO TRK	113
FFO	MKR	CO TRK	14
FF1	PWR PLANT RING INT CKT	STA MSG REG	44,108,113
FF1-FF2	PWR PLANT RING INT CKT	ATT TRK, CO TRK	44,46,113
FFE	MKR	CO TRK	14
FT	PWR PLANT RING INT TS	CO TRK	46,113
G BAT	FUSE PANEL	MKR	39,41 49,51
G GRD GN	FUSE PANEL DP REG	MKR TOUCH TONE CALL UNIT	49 83,84,85
H	CO TRK	STA MSG REG	108
H	CORDLESS POS CKT	ATT POS	33,93
H BAT	FUSE PANEL	MKR	51,39 41,49
H GRD	FUSE PANEL	MKR	49
H1	DP REG	ATT POS	77,78,94
HA	CORD POS CKT	DP REG	79
HA	MKR	INWARD RESTRICTION	98
HB	MKR	INWARD RESTRICTION	98
HC	MKR	INWARD RESTRICTION	98
HD	MKR	INWARD RESTRICTION	98
HE	MKR	INWARD RESTRICTION	98
HF	MKR	INWARD RESTRICTION	98
HA1	CORD POS CKT	DP REG	79
HA2	CORD POS CKT	DP REG	79
HD1	CO TRK	REMOTE TRK ANS	54
HM	MKR	ATT TRK	11
HMD1	MKR	MKR	1
1C2	CO TRK	INDICATION CAMP-ON	54
1CT	MKR	MKR	3
1R BAT	FUSE PANEL	INWARD RESTRICTION	17,99
1R GRD	FUSE PANEL	INWARD RESTRICTION	17,99
1R2-1R7	MKR	INWARD RESTRICTION	17,99
1T00,1T01	MKR	ATT TRK	16
1T02,1T05	MKR	ATT TRK	19
1T06,1T07	MKR, BUSY VERIF	ATT TRK	20
1T90,1T99	MKR	CO TRK	11
1TBO-1TB9	CO TRK	MAKE BUSY	111
1TO-1T9	CO TRK	MAKE BUSY	112
1TTO-1TT9	CO TRK	MAKE BUSY	112
J BAT	FUSE PANEL	MAKE	48
J GRD	FUSE PANEL	MKR	48
JOF	MKR	TR REG	15
JPC	MKR	TR REG	15

DESIG	FROM	TO	LOC
JRAL	MKR	MKR	27
JTO-JT2,JT5 BAT	FUSE PANEL	JTR	39
JTO-JT2,JT5 GRD	FUSE PANEL	JTR	39
JT3,JT4 BAT	FUSE PANEL	JTR	43
JT3,JT4 GRD	FUSE PANEL	JTR	43
K BAT	FUSE PANEL	MKR	48
K GRD	FUSE PANEL	MKR	48
KO	MKR	ATT TRK	14
KPO-9	MKR	ATT POS	61
KPO-9	DP REG	TOUCH TONE CALL UNIT	81,82,83
KPO-9	DP REG	TOUCH TONE REC	83,84,85
KPC	MKR	MKR	1
KRAO,KRA1	MKR	ATT POS	30,30,92
KRAO,KRA1	DP REG	TOUCH TONE CALL UNIT	81,82,83
KRA	DP REG	TOUCH TONE CALL UNIT	83,84,85
L	ATT TRK	608A OR 608D SWBD	31,32
L	CO TRK	KEY TEL UNIT	34,37
L	MKR	MSG WTG UNIT	67,68
L BAT.	FUSE PANEL	MKR	48
LO-L9	CO TRK	MAN. SWBD	65,86,87 87,89
L2,L3	MKR	STA LINE	10
L4,L5	MKR	STA LINE	8
L6,L7	MKR	STA LINE	1
L2-L7 BAT	MKR	STA MB KEY & LP	73-75,94
L2-L7 BAT	FUSE PANEL	MKR	47
L2-L7 GRD	FUSE PANEL	MKR	47
L2-L7 GRD	MKR	STA MB KEY & LP	73-75,94
L2-L7 BAT	MKR	CORD SWBD	58,100,115
L2-BAT	FUSE PANEL	STA LINE (20-29)	51
L2-GRD	FUSE PANEL	STA LINE (20-29)	51
L3 BAT	FUSE PANEL	STA LINE (30-39)	51
L3 GRD	FUSE PANEL	STA LINE (30-39)	51
L4 BAT	FUSE PANEL	STA LINE (40-49)	39
L4 GRD	FUSE PANEL	STA LINE (40-49)	39
L5 BAT	FUSE PANEL	STA LINE (50-59)	39
L5 GRD	FUSE PANEL	STA LINE (50-59)	39
L6 BAT	FUSE PANEL	STA LINE (60-69)	43
L6 GRD	FUSE PANEL	STA LINE (60-69)	43
L7 BAT	FUSE PANEL	STA LINE (70-79)	43
L7 GRD	FUSE PANEL	STA LINE (70-79)	43
LAL1	MKR	MKR	27
LAL2	MKR	MKR	21
LG	MKR	MKR	10
LD	CO TRK	DP REG	1,14
LHO-LH9	MKR	MKR	2
LOF	MKR	TR REG	15
LT	PWR PLANT RING INT CKT	ALM, TRANS & TST CKT	46,113
MBD BAT	FUSE PANEL	MAKE BUSY	45
MBD GRD	FUSE PANEL	MAKE BUSY	45
MBO,1	DP REG	MAKE BUSY	111
M	MKR	STA MSG REG	109
M1,2,3	MKR	MKR (MON REL IN LINE CO UNIT)	28,49,92 100,115
MAL	MKR	MKR	21
M BAT	FUSE PANEL	MKR	49
ME	MKR, BUSY VERIF	CO TRK	14
MO	MKR	CO TRK RECORDED TEL DICT TRK	14
MS	PWR PLANT RECT CKT	& JCTR & BUSY TONE TRK & ALM TRANS & TST CKT & DP REG	15
MT	MKR	MKR	21
MR1-MR14	MKR	STA MSG REG	108
MON1, MON2	MKR	LINE CUT-OFF	115,116
N BAT	FUSE PANEL	MKR	49
NA	ATT TRK	CORD SWBD	31,32,60
NA	CO TRK	CORD SWBD	33
N1	CO TRK	INDICATION CAMP-ON	54
NCA	FUSE PANEL	ALM TRANS & TST CKT	51
NCPC	MKR	TR CKT	15
NN	MKR	BUSY VERIF	17
NS	ATT TRK	ATT POS	15,32,93

DESIG	FROM	TO	LOC
NT	MKR, BUSY VERIF	CO TRK	14
NTG	CORDLESS POS CKT	ATT POS	32,93
OF	MKR	MKR	4
OFO,OF9	MKR	TR CKT	12
OF8	MKR	TR CKT	15
OHMO-OHM2,OHM5	MKR	JTR	8
OHM3,OHM4	MKR	JTR	4
OPC	MKR	TR CKT	15
OPC8,OPC9	MKR	TR CKT	15
ON	ATT TRK	CORD SWBD	31,32,93
P BAT	FUSE PANEL	MKR	49
P GRD	FUSE PANEL	MKR	42
PL	ALM, TRANS & TST CKT	DP REG	15
PLB	ALM, TRANS & TST CKT	DP REG	21
PR	DP REG	DSS AUX REL UNIT	72
PUO,PU1	PWR PLANT RING INT CKT	DP REG	23,113
Q BAT	FUSE PANEL	MKR	47
Q GRD	FUSE PANEL	MKR	42,47
R	DP REG	TOUCH TONE REC	83,84,85
R	DP REG	TOUCH TONE CALL UNIT	81,82,83
R	STA LINE	LINE CUTOFF	100,115
R	LINE CUTOFF UNIT	CORD SWBD	69,100,115
R	MKR	MSG WTG UNIT	67,68
R	MKR	DP REG	2
R	MKR	CO TRK	19,20
R	MKR, BUSY VERIF	ATT TRK	16,20
R	CO TRK	CENTRAL OFFICE	34-37,93
R	STA LINE	STA (20-29)	26,92
		(40-49)	26,92
		(60-69)	26,93
R	TIE TRK MTD IN SLIDE 2	DIST PBX	33
R	TIE TRK MTD IN SLIDE 2	ATT CDLS POS	29,55,92
R	STA LINE	STA (30-39)	27,92
		(50-59)	27,92
		(70-79)	27,93
R	TIE TRK MTD IN SLIDE 3	DIST PBX (SEE CAD 4)	13 51
R	ATT TRK	CORD SWBD	31,32,93
RO-R9	CO TRK	CORD SWBD	63,86, 87,91
R02-R04	MKR	MKR	22
R05-R07	MKR	MKR	25
R08,R09	MKR	MKR	24
R1	STA LINE	TIE TRK MTD IN SLIDE 3	18
R1	CO TRK	STA MSG REG	108
R2	CO TRK	STA MSG REG	108
R1	PWR PLANT RING INT CKT	JCTR & RDT TRK & CO TRK	40,43,113 38 45
R2	STA LINE	TIE TRK MTD IN SLIDE 3	13
R12-R14	MKR	MKR	22
R15-R17	MKR	MKR	25
R18,R19	MKR	MKR	24
R BAT	FUSE PANEL	MKR	49
R GRD	FUSE PANEL	MKR	49
RA	MKR	DP REG	4,7
RA	CORDLESS POS CKT	REMOTE TRK ANS	33,93

ISSUE		
16B	TVG JH POB	NY
17D	MR MS PD	HO
18B	EG SJF PD	HO
19B	JJG RG PD	HO
21D	RMF JFF KFJ	HW
23B	WAM SAK KEF	
24D	- SAK GFH	
25D	DWY SAK GFH	
26D	DWY SAK GFH	
30B	CED SAK GFH	
31D	CED SAK GFH	
32D	EWE SAK RHP	
33AC	EWE PJS RHP	

WORN DRAWING REPRODUCED WITHOUT CHANGE 12-22-66 BMM

36D	JJR PJS RHP	HW
38D	JJR SAK RHP	
39D	TEF RJS RHP	
40D	TEF RJS RHP	

LOST TRACING REDRAWN WITHOUT CHANGE 9-6-67 TEF

41D	WGN RHP	
42B	BMM PJS LDJ	

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PBX CABLING DIAGRAM (2)

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LEAD INDEX (CONT)

DESIG	FROM	TO	LOC
RAO,RA1 BAT.	FUSE PANEL	DP REG	50
RAO,RA1 GRD	FUSE PANEL	DP REG	50
RA1	MKR	DP REG	3,7
RB	MKR	DP REG	7,8
RB ALM	PWR PLANT CKT	ALM,TRANS,TST CKT	113
RB	DP REG	DSS AUX REL UNIT	72
RBO BAT.	FUSE PANEL	MKR &	42
		DP REG	50
RB1	MKR	DP REG	7
RB1 BAT.	FUSE PANEL	MKR &	40
		DP REG	50
RBO,RB1 GRD	FUSE PANEL	DP REG	50
RC	CORDLESS POS CKT	ATT POS	33,93
RC	DP REG	DSS AUX REL UNIT	72
RC	CO TRK	INDICATION CAMP-ON	54
RC BAT.	DP REG	TOUCH TONE CALL UNIT	81,82,83
RC BAT.	DP REG	TOUCH TONE REC	83,84,85
RC GRD	DP REG	TOUCH TONE CALL UNIT	81,82,83
RC GRD	DP REG	TOUCH TONE REC	83,84,85
RCO,RC1 BAT.	FUSE PANEL	DP REG	50
RCO,RC1 GRD	FUSE PANEL	DP REG	50
RCA 0-9	CO TRK	STA DIAL TRANS	91
RG	DP REG	DSS AUX REL UNIT	72
RG	PWR PLANT RING INT CKT	RDT TRK & JTR &	38,40,43,113
		CO TRK &	45
		ATT TRK.	46
		MAN. SWBD	28,92,113
RHMO,RHM1	DP REG	MAKE BUSY	114
RHMO,RHM1	MKR	DP REG	2
RI	DP REG	DSS AUX REL UNIT	72
RLAL	MKR	MKR	21
RLSE	MKR	CO TRK	14
RLSO	MKR	CO TRK	14
RLS	MKR	INWARD RESTRICTION	98
RO	DP REG	DSS AUX REL UNIT	72
ROF	MKR	TR CKT	15
RSA	MKR	MKR	10,108
RSB	MKR	MKR	10,108
RSC	MKR	MKR	16
RSD	MKR	MKR	16
RSE	MKR, BUSY VERIF	CO TRK	11
RSO	MKR	CO TRK	11
RT-RT1	ALM,TRANS & TST CKT	DP REG	21
RTE	MKR	CO TRK	14
RTO	MKR	CO TRK	14
RTT	MKR	MKR	10
S	MKR	MAN. SWBD	57,95
S	MKR	INWARD RESTRICTION	96,97
SA	MKR	INWARD RESTRICTION	96,97
S	STA LINE	LINE CUTOFF UNIT	100,115
S	LINE CUTOFF UNIT	CORD SWBD	69,100,115
S	STA LINE	LINE CO UNIT IN	
		MAN. SWBD OR APP CAB.	59
S	MKR	STA M.B. KEY & LP	73-75,94
S	MKR	DP REG	2
S	MKR	CO TRK	19,20
S	MKR,BUSY VER	ATT TRK	16,20
S02-S04	MKR	MKR	22
S05-S07	MKR	MKR	25
S08,S09	MKR	MKR	24
S0-S2,S5	MKR	MKR	8
S0-S9	CO TRK	CORD SWBD	64,87
S1	STA LINE	TIE TRK MTD IN	
		SLIDE 3	18
S1	MKR	STA M.B. KEY & LP	73-75,94
S2	STA LINE	TIE TRK MTD IN	
		SLIDE 3	18
S3,S4	MKR	MKR	4
S12-S14	MKR	MKR	22
S15-S17	MKR	MKR	25
S18,S19	MKR	MKR	24
S BAT.	FUSE PANEL	MKR	40,49
S GRD	FUSE PANEL	MKR	42,49
S0 BAT.	FUSE PANEL	MKR	37,39,41
S1 BAT.	FUSE PANEL	MKR	37,39,43
S23 BAT.	FUSE PANEL	MKR	37,39,42
S45 BAT.	FUSE PANEL	MKR	37,39,42
SI	CO TRK	STA MSG REG	107
SR	CO TRK	STA MSG REG	107
SSI	CO TRK	STA MSG REG	107
SS2	CO TRK	STA MSG REG	107

DESIG	FROM	TO	LOC
S67 BAT.	FUSE PANEL	MKR	38,40,43
S89 BAT.	FUSE PANEL	MKR	38,40,43
SB,SC,SD,SE,SF BAT.	FUSE PANEL	MAN. SWBD	58
SB,SC,SD,SE,SF GRD	FUSE PANEL	MAN. SWBD	58
SD6,SD7	MKR	MKR	25
SF1,SF2	PWR PLANT INT CKT	ATT POS	45,46,113
SG2,SG3	DP REG	ATT POS	77,78,94
SG2,SG3	MKR	ATT POS	10,30,92
SL	LINE CUTOFF UNIT	CORD SWBD	69,100,115
SL	ATT TRK	608A OR 608D SWBD	31,32
SL	TIE TRK MTD IN SLIDE 2	ATT CDLS POS	29,55,92
SLO SL9	CO TRK	CORD SWBD	65,87
SL1,SL2	CO TRK	ATT POS	34-37,93
SL1,SL2	ATT TRK	ATT POS	31-32,93
SL3	ATT TRK	KEY TEL UNIT	31-32,93
SLTO-SLT9	MKR	MKR	7
SM0,SM1	MKR	MKR	4
SM2-SM5	MKR	MKR	7
SM6-SM9	MKR	MKR	3
SM00,SM01	MKR	MKR	4
SM10,SM11	MKR	MKR	2
SMC0	MKR	MKR	3
SMC1	MKR	MKR	8
SMC8	MKR	MKR	4
SMTA	MKR	MKR	4
SMTB	MKR	MKR	4
SS-	CO TRK	INDICATION CAMP-ON	54
ST90-ST99	MKR	CO TRK	9
ST90	BUSY VER	CO TRK	9
STPC	MKR	TR CKT	15
STT,STR	RD TIE TRK IN SLIDE 5	ATT LOC (RINGER)	33,93
T	TIE TRK MTD IN SLIDE 2	ATT CDLS POS	29,55,92
T	DP REG	TOUCH-TONE REC	83,84,85
T	ATT TRK	CORD SWBD	31,32,93
T	MKR	DP REG	2
T	MKR	CO TRK	19,20
T	MKR, BUSY VER	ATT TRK	16,20
T	DP REG	TOUCH TONE CALL UNIT	81,82,83
T	CO TRK	CENTRAL OFFICE	34-37,93
T	STA LINE	STA (20-29)	26,59,92
		(40-49) + CORD SWBD	26,59,92
		(60-69)	26,59,93
T	TIE TRK MTD IN SLIDE 2	DIST PBX	26,92
T	STA LINE	STA (30-39)	27,59,92
		(50-59) + CORD SWBD	27,59,92
		(70-79)	27,59,93
T	TIE TRK MTD IN SLIDE 3	DIST PBX (SEE CAD 4)	13,51
T	STA LINE	LINE CUTOFF	100,115
T	LINE CUTOFF UNIT	CORD SWBD	69,100,115
TO, T2-T9	DP REG	DSS AUX REL UNIT	70,71
TO-T9	CO TRK	CORD SWBD	63,86
			87,91
TO2-TO4	MKR	MKR	22
TO5-TO7	MKR	MKR	25
TO8,TO9	MKR	MKR	24
T1	STA LINE	TIE TRK MTD IN SLIDE 3	18
T2	STA LINE	TIE TRK MTD IN SLIDE 3	13
T12-T14	MKR	MKR	22
T15-T17	MKR	MKR	25
T18,T19	MKR	MKR	24
TO,T1 BAT.	FUSE PANEL	MKR	41,48
TO,T1 GRD	FUSE PANEL	MKR	41,48
T2-T8	DP REG	ATT POS	77-78,94
T80-T83 BAT.	FUSE PANEL	TIE TRK	51
T80-T83 GRD	FUSE PANEL	TIE TRK	51
T84-T89 BAT.	FUSE PANEL	TIE TRK	38
T84-T89 GRD	FUSE PANEL	TIE TRK	38
T85-T89 BAT.	FUSE PANEL	TIE TRK	40
T85-T89 GRD	FUSE PANEL	TIE TRK	23,40
T1R-T4R	ALM,TRANS & TST CKT	ALM,TRANS & TST CKT	5
TIT-T4T	ALM,TRANS & TST CKT	ALM,TRAN & TST CKT	5
TAAL	MKR	MKR	23
TAL	MKR	MKR	15
TB	FUSE PANEL	CONN BLOCKS	46
TC-	CO TRK	INDICATION CAMP-ON	54
TC	MKR	MKR	17
TCA 0-9	CO TRK	STA DIAL TRANS	91
TCW1-TCW4	CORDLESS POS CKT	REMOTE TRK ANS	33,93
TFA	MKR	STA DIAL TRANS	7
TFB	MKR	STA DIAL TRANS	7

DESIG	FROM	TO	LOC
THO-TH9	MKR	MKR	5
THMO-THM2,THM5	MKR	JTR	8
THM3,THM4	MKR	JTR	4
TKLO,TKL9	MKR	MKR	6
TKL8	MKR	MKR	10
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+48V	PWR PLT	FUSE PANEL	113
-96V	PWR PLT	FUSE PANEL	113

SHEET NOTES:

1. THIS LEAD INDEX DOES NOT INCLUDE THE LEADS OF THE CORDLESS POSITION CIRCUIT MODULAR STATION UNITS, OR THE KEY TELEPHONE SET, AS THESE LEADS ARE CABLES (USING ONE CABLE PER UNIT) TO THE HOUSE BOX, WHERE THEY ARE CROSS CONNECTED TO THEIR ASSOCIATED CIRCUITS. SEE THE ASSIGNMENTS OF CONDUCTORS IN THESE CABLES AND THE DIAGRAMS OF TYPICAL CONNECTIONS FOR THE CHAIN LEADS ON SD-65751-01.
2. THIS LEAD INDEX DOES NOT INCLUDE LEADS WHICH RUN BETWEEN CIRCUITS MOUNTED ON THE SAME SLIDE.

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36D	JJR PJS RHP
38D	JJR PJS RHP
41D	WGN RHP
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31D	CED SAK RHP
32D	EME PJS RHP
33AC	PJS RHP
34D	PJS RHP
35D	PMC PJS RHP
36B	PJS RHP
37D	JJR PJS RHP
38D	JJR PJS RHP
39D	JJR PJS RHP
40D	JJR PJS RHP
41D	WGN PJS RHP
42B	BMM PJS LDJ
43B	REK PJS LDJ

PBX CABLING DIAGRAM (2) SD-65746-01-A5

BELL TELEPHONE LABORATORIES INCORPORATED DWG SIZE 6S

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CONNECTOR LOCATION INDEX

CONN	SLIDE 1 G SHEET	SLIDE 2 G SHEET	SLIDE 3 G SHEET	SLIDE 4 G SHEET	SLIDE 5 G SHEET	SLIDE 6 G SHEET	CONN
A	44,57,95	1,114	1,114	1,114	1,44,	1,17	A
B	58	2,8,114	2,	2,17	63	2	B
C	45,	3,45	3	3	43,45	3	C
D	56,113	4	4	4	64	4	D
E	39	5	39	5,6,	5,80,111,	5,6	E
F	46	7,46	7,46	7,46	46,111,	7,46	F
G	51	51	8	9	9	8	G
H	17,40	10,	40	10,11	10,11	10	H
J	12,14,41	13	13	12,14,41	14	14	J
K	15	15,16,17	15,16,17	15,16	15,16,111,	15,16	K
L	47	18	16	19	19	47	L
M	48	57,95		20	20	48	M
N	21,22,114	22	22	22	37	21,22	N
P	28	25	25	25	36	17,24,25, 44,80	P
R	23	24	24	24	35	23,24	R
S	38	38	57,95	57,95	34	70	S
T	42	29,104,110,	26,105	42	33	61,71	T
U	43	30	27,106	43,50	32	72	U
W	49	26,105		26,105	31	49	W
Y	50	27,106		27,106	65	50	Y
AA	84						AA
AB	85						AB
AC	113						AC
AD	79	102,103	99				AD
AE	73	73	74,	75	88	81,84	AE
AF	76	76	76,	76	89	82,85	AF
AG	67	67	67	67	90	77	AG
AH	68	68	68	68	91	78	AH
AJ		96	96	96		111,114	AJ
AK	102	97	97	97		98	AK
AL							AL
AM		111					AM
AN		112					AN
AP							AP
AR							AR
AS							AS
AT							AT

CON'T. CONNECTOR LOCTION INDEX

CONN	SLIDE 1 G SHEET	SLIDE 2 G SHEET	SLIDE 3 G SHEET	SLIDE 4 G SHEET	SLIDE 5 G SHEET	SLIDE 6 G SHEET	CONN
AU	107	109	109	109		108	AU
AW							AW
AY							AY
BA					112,		BA
BB							BB
BC							BC
BD					107		BD
BE					107		BE
BF					107		BF
BG					108		BG
BH					108		BH

SHEET NOTE:
1. SEE SD-66920-01 FOR CONNECTORS NOT SHOWN ON THIS DRAWING.

OPTION INDEX

APP OR WIR	LOCATION
Z	9,16,20,
Y	9,11,14,16,20,23, 45,95
X	7,16,54
W	1,3,4,7,11,14,16, 45,46,48,50,54,89 91
V	32,54
T	4,14,32,33,41,45, 54,88
S	14,29,55
R	46,29,55
Q	63,64,65
N	44,45,46,86,87,88, 89,90,91
M	15,53,55,56
K	15,55
J	52,57,62
H	17,60,95,96,97,98, 99
G	67,68,73,76
F	67,68,73,76
E	29,55,102,103,104
B	26,27
A	105,106
ZA	17,44,107,108,109
ZB	1, ,4,8,22,24,25, 45,111,112,114
ZC	15,22,24,25,54
ZD	14,23,28,38,43,44,45, 46,56
ZE	14,15,23,28,38,43, 44, 45,46,55,113
ZF	108
ZG	47, 49, 108
ZH	53
ZJ	53

APP OR WIR	LOCATION

DRAWING ISSUE	
21D	SAK JFF KFJ
23B	SAK KFJ
24D	SAK GFH
25D	SAK GFH
28D	GRI
31D	CED SAK GFH
32D	EWE PJS RHP
36D	PMC PJS RHP
38D	JJR PJS RHP
39D	ROZ SAK RHP
41D	WGN RHP
42B	BMM PJS LDJ
43B	ROZ LDJ

HW

HW

43

PBX CABLING DIAGRAM (2) | SD-65746-01-A6

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SHEET INDEX (CONT)

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CAD 38	LEADS BETWEEN CROWN CONNECTORS FOR EXTERNAL TRAFFIC REGISTERS	G103	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29																																					G103
		G104	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29																																			G104
PART OF CAD IA	HOUSE & FEEDER CABLES FOR 756A PBX	G105			31	31	31	31	31	31	31	31	31	31	31	42	42																																			G105
		G106			31	31	31	31	31	31	31	31	31	31	31	42	42																																			G106
CAD 39	STATION MESSAGE REGISTER FEATURE	G107				32	32	32	32	32	32	32	32	32	32	32	32																																			G107
		G108				32	32	32	32	32	32	32	32	40	41	41	41																																			G108
CAD 40		G109				32	32	32	32	32	32	32	32	32	32	32	32																																			G109
PART OF CAD IA	HOUSE & FEEDER CABLES	G110								36	36	36	36	36	36	42	42																																			G110
PART OF CAD I	INTERSLIDE LEADS	G111								36	36	36	36	36	41	41	41																																			G111
		G112								36	36	36	36	36	36	36	36																																			G112
CAD 41	LEADS TO BATTERY RESERVE CABINET	G113										38	38	38	41	41	41																																			G113
CAD 42	HOUSE & FEEDER CABLE FROM MODULE 1 TO BATTERY RESERVE CABINET.																																																	
PART OF CAD I	INTERSLIDE LEADS	G114													41	42	42																																			G114
CAD 43	FOR PBX TO 608 SWBD LINE CUTOFF UNIT	G115														42	42																																			G115
CAD 44	FOR 608 SWBD TO LINE CUTOFF UNIT	G116														42	42																																			G116
CAD 45	CONF JACK APPEARANCE AT 608 SWBD																																																	

DRAWING ISSUE		
29D	EWE GFH	HW
30B	CED SAK GFH	
31D	PMC SAK RHP	
32D	EWE PJS RHP	
33AC	EWE PJS RHP	
34D	EWE PJS RHP	PMC
35D	PMC PJS RHP	
36D	JJR PJS RHP	HW
37D	JJR PJS RHP	
38D	JJR PJS RHP	
39D	JJR PJS RHP	
40D	JJR PJS RHP	
41D	WGN RHP	
42B	BMM PJS LDJ	
43B	REK PJS LDJ	

PBX CABLING DIAGRAM (2) SD-65746-01-A7

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SD-65746-01-A7

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INFORMATION NOTES:

301. THE INFORMATION SHOWN IN CADS 1 & 2 COVER ALL OUTGOING LEADS FROM THE PBX AND ALL LEADS THAT RUN BETWEEN SLIDES.

302. ALL LEADS TERMINATING OUTSIDE THE PBX MODULES ARE RUN IN CABLES CALLED "HOUSE AND FEEDER" CABLES. MODULE 1 CABLE CARRIES ALL LEADS TO FIRST MODULE (SLIDES 1,2 & 3). MODULE 2 CABLE CARRIES ALL LEADS TO SECOND MODULE (SLIDES 4,5 & 6). SUPPLEMENTARY CABLE IS REQUIRED ONLY WHEN 556A PBX SWBD IS USED AND CARRIES THE ADDITIONAL LEADS ESSENTIAL TO SWBD OPERATION. LEADS REQUIRED FOR TIE TRUNKS, TELEPHONE DICTATION TRUNKS, CONFERENCE CIRCUITS, ETC, WHICH RUN TO LOCATIONS EXTERNAL TO THE CONSOLES ARE INCLUDED IN MODULE 1 "HOUSE AND FEEDER" CABLE. ALL OF THESE CABLES ARE PLUG-CONNECTED AT THE MODULE END AND ARE ROUTED TO THE HOUSE BOX OR THE CABLE TERMINAL SECTION. THESE LEADS ARE EXTENDED FROM THE HOUSE BOX OR THE CABLE TERMINAL SECTION TO THE ATTENDANT MODULAR STATION UNIT OR ATTENDANT SWBD IN "HOUSE AND FEEDER" CABLES FURNISHED WITH THOSE UNITS.

303. UNLESS OTHERWISE SHOWN, ALL LEAD COLORS APPLY TO BOTH SIDES OF THE PLUG & CONNECTOR.

304. THE LETTER SHOWN UNDER THE "PLT" COLUMN IN CADS 1 & 2 IS THE PHYSICAL LOCATION OF THE PIECE OF APPARATUS ON A MOUNTING PLATE TO WHICH THE LEAD IS CONNECTED. THE STAMPING OF THE LETTERS APPEAR ON THE UPRIGHT OF THE SLIDE.

305.

306. STRAPS BETWEEN ADJACENT TERMINALS OF "D" TYPE TERMINAL STRIPS MAY BE BARE WIRES.

307. CIRCUIT OPTIONS APPEARING ON ONE OR MORE SCHEMATIC DRAWINGS TO PROVIDE VARIOUS FEATURES FOR THE 756A PBX ARE INDEXED IN TABLE A. THE OPTION DESIGNATIONS SHOWN ARE THOSE LISTED ON THE SD- DRAWING ISSUES AVAILABLE AT THE DATE OF THE LATEST ISSUE OF THIS DRAWING.

308. PRIOR TO ISSUE 21 THE COLOR CODE FOR "D" INSIDE WIRING CABLE WAS SHOWN IN CABLE DIAGRAMS 1A, 13, 14, 20, 23, 24 AND 25. THE USE OF "CF" TYPE TYPE T-PVC INK COLOR CODED WIRE WAS ADDED ON ISSUE 21. THE COMPARISON OF COLOR CODES FOR THE "D" I.W. AND "CF" CABLE IS SHOWN IN TABLE "A" SHEET 659.

309. CIRCUIT NOTES WERE ADDED ON ISSUE 21 TO PROVIDE MEANS OF SHOWING CABLING CHANGES FOR NEW FEATURE OPTIONS. FOR FEATURE CABLING DIAGRAM SEE SD-66920-01.

310. "MANUAL SWBD" INCLUDES 556A BUT NOT 608A OR 608D SWBD. "CORD SWBD" INCLUDES 556A SWBD AND 608A OR 608D SWBD.

DRAWING ISSUE	
13D	RG ALS
21D	BLD JFF KF
24D	EWE SAK GFH
26D	DWN SAK GFH
31D	CEL SAM GFH

31

NO. 756A
PBX CABLING DIAGRAM (2)

SD-65746-01-DI

BELL TELEPHONE LABORATORIES INCORPORATED

DWG SIZE 6S

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INDEX OF OPTIONAL FEATURES 756A PBX SEE NOTE 307

TABLE A

TYPE OF ATTENDANT EQUIPMENT	FEATURE				CIRCUIT DRAWING NUMBER	OPT	CAD NUMBER SD-65746-01	OPT TO BE WIRED AT CONN BOX	OPT WIRED AT FACTORY
	NO ATTENDANT				SD-65753-01	X	9		
	CORD SWITCHBOARD ONLY		556A		SD-65741-01	Y	13 & 14		
					SD-65743-01	W		✓	
					SD-65753-01	Z	15		
						M	1A	✓	
					SD-65757-01	W		✓	
			40 LINES		SD-65741-01	VA	13, 43&44	✓	
			60 LINES		SD-65741-01	VA, VB	13, 43 & 44 13, 43 & 44	✓ ✓	
			608A OR 608D		SD-65752-01	YE		✓	✓
					SD-65753-01	A	15	✓	
						W	9		✓
					SD-65757-01	M	1A	✓	
						W		✓	
					SD-66796-01	T		✓	
						B		✓	
	CORD SWITCHBOARD PLUS ONE CORDLESS TEL SET ONLY		556A		SD-65741-01	Y	13 & 14		
					SD-65743-01	T		✓	
						V		✓	
					SD-65753-01	Z	15		
						Y	1A		✓
						W	9		✓
					SD-65757-01	M	1A	✓	
			40 LINES		SD-65741-01	VA	13, 43&44	✓	
			60 LINES		SD-65741-01	VA, VB	13, 43 & 44 13, 43 & 44	✓ ✓	
			608A OR 608D		SD-65752-01	YE		✓	✓
					SD-65753-01	A	15	✓	
						Y	1A	✓	
						W	9		✓
					SD-65757-01	M	1A	✓	
					SD-66796-01	T,V		✓	
		FIRST CORDLESS POSITION	9 PU KEYS		SD-65757-01	X	1A	✓	
			15 PU KEYS		SD-65757-01	X,Y	1A	✓	
		NIGHT SERVICE NOT REQD			SD-65757-01	W		✓	
		756A PBX NOT MODIFIED FOR KEY PULSING			SD-65757-01	G		✓	
	CORD SWITCHBOARD PLUS TWO CORDLESS TEL SETS PLUS ONE 6 BUTTON KEY TEL SET		556A		SD-65741-01	Y	13 & 14		
					SD-65743-01	X		✓	
						W		✓	
					SD-65753-01	Z	15		
						Y	1A		✓
						W	9		✓
					SD-65757-01	M	1A	✓	
			40 LINES		SD-65741-01	VA	13, 43&44	✓	
			60 LINES		SD-65741-01	VA, VB	13, 43&44 13, 43&44	✓ ✓	
			608A OR 608D		SD-65752-01	YE		✓	✓
					SD-65753-01	A	15	✓	
						Y	1A	✓	
						W	9		✓
					SD-65757-01	M	1A	✓	
					SD-66796-01	X,W		✓	
		FIRST & SECOND CORDLESS POSITION	9 PU KEYS		SD-65757-01	1ST X	2ND N	1A	✓	
			15 PU KEYS		SD-65757-01	X,Y	N,Y	1A	✓	
		NIGHT SERVICE NOT REQD			SD-65757-01	W			✓	
		756A PBX NOT MODIFIED FOR KEY PULSING			SD-65757-01	G			✓	
	CORD SWITCHBOARD PLUS TWO CORDLESS TEL SETS PLUS ONE 6 BUTTON KEY TEL SET		556A		SD-65741-01	Y	13 & 14		
					SD-65743-01	X		✓	
						W		✓	
					SD-65753-01	Z	15		
						Y	1A		✓
						W	9		✓
					SD-65757-01	M	1A	✓	
						R	1A	✓	
						ZE	1A		✓
			40 LINES		SD-65741-01	VA	13, 43&44	✓	
			60 LINES		SD-65741-01	VA, VB	13, 43&44 13, 43&44	✓ ✓	
			608A OR 608D		SD-65752-01	YE		✓	✓
					SD-65753-01	A	15	✓	
						Y	1A	✓	
						W	9		✓
					SD-65757-01	M	1A	✓	
						R	1A	✓	
					SD-66796-01	X,W		✓	
		FIRST & SECOND CORDLESS POSITION	9 PU KEYS		SD-65757-01	1ST X	2ND N	1A	✓	
			15 PU KEYS		SD-65757-01	X,Y	N,Y	1A	✓	
		NIGHT SERVICE NOT REQD			SD-65757-01	W			✓	
		756A PBX NOT MODIFIED FOR KEY PULSING			SD-65757-01	G			✓	
		5TH PICKUP KEY IN 6 BUTTON KEY TEL SET USED FOR		TRUNKS	SD-65757-01	T			✓	
				LINES	SD-65757-01	V			✓	
		EXTERNALLY MOUNTED KEYS FOR USE WITH 6 BUTTON KEY TEL SET		DIAL BACK	SD-65757-01	F	1A	✓	
				NIGHT CONN	SD-65757-01	E	1A	✓	

TABLE A: (CONT)

TYPE OF ATTENDANT EQUIPMENT	FEATURE				CIRCUIT DRAWING NUMBER	OPT	CAD NUMBER SD-65746-01	OPT TO BE WIRED AT CONN BOX	OPT WIRED AT FACTORY
	CORD SWITCHBOARD PLUS ONE CORDLESS TEL SET PLUS ONE 6 BUTTON KEY TEL SET		556A		SD-65741-01	Y	13 & 14		
					SD-65743-01	T		✓	
						V		✓	
					SD-65753-01	Z	15		
						Y	1A		✓
						W	9		✓
					SD-65757-01	M	1A	✓	
						S	1A	✓	
						R	1A	✓	
						ZE	1A		✓
			40 LINES		SD-65741-01	VA	13, 43 & 44	✓	
			60 LINES		SD-65741-01	VA, VB	13, 43 & 44 13, 43 & 44	✓ ✓	
			608A OR 608D		SD-65752-01	YE		✓	✓
					SD-65753-01	A	15	✓	
						Y	1A	✓	
						W	9		✓
					SD-65757-01	M	1A	✓	
						S	1A	✓	
						R	1A	✓	
					SD-66796-01	T,V		✓	
		FIRST CORDLESS POSITION	9 PU KEYS		SD-65757-01	X	1A	✓	
			15 PU KEYS		SD-65757-01	X,Y	1A	✓	
		NIGHT SERVICE NOT REQD			SD-65757-01	W		✓	
		756A PBX NOT MODIFIED FOR KEY PULSING			SD-65757-01	G		✓	
		5TH PICKUP KEY IN 6 BUTTON KEY TEL SET USED FOR		TRUNKS	SD-65757-01	T		✓	
				LINES	SD-65757-01	V		✓	
		EXTERNALLY MOUNTED KEYS FOR USE WITH 6 BUTTON KEY TEL SET		DIAL BACK	SD-65757-01	F	1A	✓	
				NIGHT CONN	SD-65757-01	E	1A	✓	
	CORD SWITCHBOARD PLUS ONE 6 BUTTON KEY TEL SET ONLY		556A		SD-65741-01	Y	13 & 14		
					SD-65743-01	W		✓	
					SD-65753-01	Z	15		
						Y	1A		✓
						W	9		✓
					SD-65757-01	M	1A	✓	
						Q	1A	✓	
						S	1A	✓	
						R	1A	✓	
						ZE	1A		✓
			40 LINES		SD-65741-01	VA	13, 43 & 44	✓	
			60 LINES		SD-65741-01	VA, VB	13, 43 & 44 13, 43 & 44	✓ ✓	
			608A OR 608D		SD-65752-01	YE		✓	✓
					SD-65753-01	A	15	✓	
						Y	1A	✓	
						W	9		✓
					SD-65757-01	M	1A	✓	
						Q,S,R	1A	✓	
					SD-66796-01	W		✓	
		5TH PICKUP KEY IN 6 BUTTON KEY TEL SET USED FOR		TRUNKS	SD-65757-01	T		✓	
				LINES	SD-65757-01	V		✓	
		NIGHT SERVICE NOT REQD			SD-65757-01	W		✓	
		EXTERNALLY MOUNTED KEYS FOR USE WITH 6 BUTTON KEY TEL SET		DIAL BACK	SD-65757-01	F	1A	✓	
				NIGHT CONN	SD-65757-01	E	1A	✓	
	TWO CORDLESS TEL SETS PLUS ONE 6 BUTTON KEY TEL SET				SD-65741-01	Z	16		✓
					SD-65743-01	X		✓	
					SD-65753-01	Y	1A		✓
						W	9		✓
					SD-65757-01	K		✓	
						R	1A	✓	
						ZE	1A		✓
		FIRST & SECOND CORDLESS POSITION	9 PU KEYS		SD-65757-01	1ST X	2ND N	1A	✓	
			15 PU KEYS		SD-65757-01	X,Y	N,Y	1A	✓	
		NIGHT SERVICE NOT REQD			SD-65757-01	W			✓	
		756A PBX NOT MODIFIED FOR KEY PULSING			SD-65757-01	G			✓	
		4TH OR 5TH PICKUP KEY IN 6 BUTTON KEY TEL SET USED FOR		TRUNKS	SD-65757-01	T			✓	
				LINES	SD-65757-01	V			✓	
		EXTERNALLY MOUNTED KEYS FOR USE WITH 6 BUTTON KEY TEL SET		DIAL BACK	SD-65757-01	F	1A	✓	
				NIGHT CONN	SD-65757-01	E	1A	✓	

TABLE A: (CONT)

TYPE OF ATTENDANT EQUIPMENT	FEATURE				CIRCUIT DRAWING NUMBER	OPT	CAD NUMBER SD-65746-01	OPT TO BE WIRED AT CONN BOX	OPT WIRED AT FACTORY
	TWO CORDLESS TEL SETS ONLY				SD-65741-01	Z	16		✓
					SD-65743-01	X		✓	
					SD-65753-01	Y	1A		✓
						W	9		✓
					SD-65757-01	K		✓	
		FIRST & SECOND CORDLESS POSITION	9 PU KEYS		SD-65757-01	1ST X	2ND N	1A	✓	
			15 PU KEYS		SD-65757-01	X,Y	N,Y	1A	✓	
		NIGHT SERVICE NOT REQD			SD-65757-01	W			✓	
		756A PBX NOT MODIFIED FOR KEY PULSING			SD-65757-01	G			✓	
	ONE CORDLESS TEL SET PLUS ONE 6 BUTTON KEY TEL SET ONLY				SD-65741-01	Z	16		✓
					SD-65743-01	V		✓	
					SD-65753-01	Y	1A		✓
						W	9		✓
					SD-65757-01	K		✓	
						S	1A	✓	
						R	1A	✓	
						ZE	1A		✓
		FIRST CORDLESS POSITION	9 PU KEYS		SD-65757-01	X	1A	✓	
			15 PU KEYS		SD-65757-01	X,Y	1A	✓	
		NIGHT SERVICE NOT REQD			SD-65757-01	W		✓	
		756A PBX NOT MODIFIED FOR KEY PULSING			SD-65757-01	G		✓	
		5TH PICKUP KEY IN 6 BUTTON KEY TEL SET USED FOR		TRUNKS	SD-65757-01	T		✓	
				LINES	SD-65757-01	V		✓	
		EXTERNALLY MOUNTED KEYS FOR USE WITH 6 BUTTON KEY TEL SET		DIAL BACK	SD-65757-01	F	1A	✓	
				NIGHT CONN	SD-65757-01	E	1A	✓	

DRAWING ISSUE

SUPERSEDES ISS 22D		
26D	DWY	HW
	SAK	
	GFH	
31D	CED	
	SAK	
	GFH	
	BMM	
42B	PJS	
	LDJ	

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INDEX OF OPTIONAL FEATURES: (CONT) SEE NOTE SC7

TABLE A: (CONT)

FEATURE				OPTIONS REQUIRED: CIRCUIT DRAWING NUMBER	OPT	CAD NUMBER SD-65746-01	OPT TO BE WIRED AT CONN BOX	OPT WIRED AT FACTORY	REMARKS
TYPE OF ATTENDANT EQUIPMENT	ONE CORDLESS TEL SET ONLY			SD-65741-01	Z	16		✓	
				SD-65743-01	V		✓		
				SD-65753-01	Y	1A		✓	
					W	9		✓	
				SD-65757-01	K		✓		
		FIRST CORDLESS POSITION	9 PL KEYS	SD-65757-01	X	1A	✓		
			15 PL KEYS	SD-65757-01	X,Y	1A	✓		
		NIGHT SERVICE NOT REQD		SD-65757-01	W		✓		
		756A PBX NOT MODIFIED FOR KEY PULSING		SD-65757-01	G		✓		
	ONE 6 BUTTON KEY TEL SET ONLY			SD-65741-01	Z	16		✓	
				SD-65753-01	Y	1A		✓	
					W	9		✓	
				SD-65757-01	K		✓		
					C	1A	✓		
					S	1A	✓		
					R	1A	✓		
					ZE	1A		✓	
		5TH PICKUP KEY IN 6 BUTTON KEY TEL SET USED FOR	TRUNKS	SD-65757-01	T		✓		
			LINES	SD-65757-01	V		✓		
		NIGHT SERVICE NOT REQD		SD-65757-01	W		✓		
		EXTERNALLY MOUNTED KEYS FOR USE WITH 6 BUTTON KEY TEL SET	DIAL BACK	SD-65757-01	F	1A	✓		
			NIGHT CONN	SD-65757-01	E	1A	✓		
EQUIP. SIZE	40 LINE PBX			SD-65741-01	T	1		✓	
				SD-65742-01	Z	5		✓	
	60 LINE PBX			SD-65741-01	V	1,2,13 & 36		✓	
ALARMS	MARGINAL			SD-65743-01	Z	10			
	BATTERY REVERSAL			SD-65743-01	Y	10			
STATION LINE	UNASSIGNED			SD-65741-01	-	3,35			SEE NOTE ON SD-65741-01-B1(1F8)
	RESTRICTED	FROM BOTH LEVELS 8 & 9		SD-65741-01	-	3,35			SEE SHEET NOTE 1
				SD-65742-01	Y	5			ON SD-65746-01-G52
		FROM LEVEL 9 ONLY		SD-65741-01	-	3,35			SEE SHEET NOTE 1
				SD-65742-01	X	5			ON SD-65746-01-G52
	TOLL ALLOWED			SD-65741-01	-	3,35		✓	SEE FS 11 SD-65741-01-B18 & CAD 3 SD-65746-01-G52
	TOLL DENIED			SD-65741-01	-	3,35			
	ARRANGED FOR HUNTING	ONE DIRECTION		SD-65741-01	W	3,35			
		TWO DIRECTIONS		SD-65741-01	X	3,35			
	EMERGENCY TRANSFER TO CENTRAL OFFICE		YES	SD-65741-01	R	1A & 3		✓	LINES 30,31 & 32 ONLY. (PRIOR TO ISSUE 9 OF SD-65741-01 LINE 33 ALSO INCLUDED) DIAL TONE START KEY REQD AT STATION SEE CD-65743-01
			NO	SD-65741-01	S	1A & 3		✓	
UNIVERSAL LINE	UNASSIGNED			SD-65741-01	Q	16		✓	
	NO. 8 LEVEL TRUNKS EQUIPPED			SD-65742-01	W	5		✓	
	ARRANGED FOR HUNTING	ONE DIRECTION		SD-65741-01	W	16			
		TWO DIRECTIONS		SD-65741-01	X	16			
	USED FOR STA LINE RESTRICTED		FROM LEVELS 8&9	SD-65741-01	-	16			
					M	16		✓	SEE SHEET NOTE 1
					Q	16		✓	ON SD-65746-01-G52
				SD-65742-01	Y	5			
			FROM LEVEL 9 ONLY	SD-65741-01	-	16			
					M	16		✓	SEE SHEET NOTE 1
					Q	16		✓	ON SD-65746-01-G52
				SD-65742-01	X	5			
		TOLL ALLOWED		SD-65741-01	-	16		✓	SEE FS 11
					M	16		✓	SD-65741-01-B18 &
					Q	16		✓	CAD 4 SD-65746-01-G52
		TOLL DENIED		SD-65741-01	-	16			SEE FS 11
					M	16		✓	SD-65741-01-B18 &
					Q	16		✓	CAD 4 SD-65746-01-G52
	CODE CALL			SD-65741-01	J	16			
	PAGING TRUNK			SD-65741-01	H	16			
SINGLE DIGIT DIALING	CO TRUNKS ARRANGED FOR LONG DIST. SERVICE BY SINGLE DIGIT DIALING		TRKS 8 & 9	SD-65741-01	YF,YE			✓	
				SD-65742-01	ZI,ZK	5		✓	
				SD-65752-01	ZN	6			
			TRKS 6 & 7	SD-65741-01	YO,YP				
				SD-65742-01	ZS,ZI,ZK	5			
				SD-65752-01	ZP	6			
	INTERCEPT FEATURE			SD-65741-01	YD	24		✓	KEY & LP NOT PROV.

TABLE A: (CONT)

FEATURE				OPTIONS REQUIRED: CIRCUIT DRAWING NUMBER	OPT	CAD NUMBER SD-65746-01	OPT TO BE WIRED AT CONN BOX	OPT WIRED AT FACTORY	REMARKS
UNIVERSAL LINE	USED FOR TIE TRUNK	RESTRICTED FROM CODES THE SAME AS STATIONS ARE RESTRICTED		SD-65741-01	-	16			SEE NOTE ON CAD 4
					N	16			SD-65746-01-G52(F7)
		TOLL ALLOWED		SD-65741-01	-	16			SEE NOTE ON CAD 4
					N	16			SD-65746-01-G52(F7)
		TOLL DENIED		SD-65741-01	-	16			SEE NOTE ON CAD 4
					N	16			SD-65746-01-G52(F7)
		PAD CONTROL		SD-65741-01	WF	2		✓	SEE CAD 9 AND 10 ON SD-66920-01
	OTHER			SD-65741-01	N	16			
CENTRAL OFFICE TRUNK	CENTRAL OFFICE BATTERY VOLTAGE		40V OR MORE	SD-65752-01	S	6		✓	
			39V OR LESS	SD-65752-01	R	6			
	AUTOMATIC TRANSFER TO CENTRAL OFFICE		YES	SD-65752-01	T	6		✓	TRUNKS 0,1 & 2 ONLY. (PRIOR TO ISSUE 7 OF SD-65752-01 TRUNK 5 ALSO INCLUDED)
			NO	SD-65752-01	V	6		✓	
	2 WAY ASSIGNED SERVICE			SD-65752-01	J	6			
	ONE WAY INCOMING OR UNASSIGNED SERVICE			SD-65752-01	K	6			
CENTRAL OFFICE TRUNK OR RINGDOWN TIE TRUNK	UNEQUIPPED			SD-65741-01	-	7		✓	SEE NOTE ON CAD 7 SD-65746-01-G53(F7)
	ARRANGED FOR HUNTING			SD-65741-01	-	7		✓	SEE NOTE ON CAD 7 SD-65746-01-G53(B7)
	NOT RESTRICTED FROM CODES THE SAME AS RESTRICTED STATIONS ARE RESTRICTED			SD-65742-01	S	5			
	CODE 9	ONE DIGIT		SD-65742-01	V	5			
		TWO DIGITS		SD-65742-01	T	5			
ATTENDANT CLASS OF SERVICE	NON-LOCKOUT			SD-65752-01	Z	6		✓	
	SECRECY			SD-65752-01	W	6			
	RESTRICTED		YES	SD-65752-01	X	6			INCOMPATIBLE WITH FLEXIBLE NIGHT SERVICE
			NO	SD-65752-01	Y	6		✓	
INWARD KEY PULSING FOR ATTENDANT				SD-65741-01	ZA	1		✓	NOT PROVIDED PRIOR TO ISSUE 9 OF SD-65741-01
				SD-65742-01	Q	1A		✓	NOT PROVIDED PRIOR TO ISSUE 4 OF SD-65742-01
FLEXIBLE NIGHT SERVICE (ANY STATION MAY BE CONNECTED TO ANY TRUNK)				SD-65743-01	P	2 & 8		✓	NOT PROVIDED PRIOR TO ISSUE 5 OF SD-65743-01
				SD-65752-01	E	1A & 8		✓	NOT PROVIDED PRIOR TO ISSUE 7 OF SD-65752-01. FLEXIBLE NIGHT SERVICE IS INCOMPATIBLE WITH ATTENDANT RESTRICTED SERVICE
					Y	6		✓	
756A TIE TRUNK	INCOMING RINGING	DIRECT, THRU RC, OR THRU BY-PASSING CAPACITORS	LOOP 2000 OHMS OR MORE	SD-65756-01	X	CAD 1 & 2 (SD-65746-01)			
			LOOP UNDER 2000 OHMS	SD-65756-01					
		THRU BLOCKING CAPACITORS	LOOP 1500 OHMS OR MORE	SD-65756-01	W				
			LOOP UNDER 1500 OHMS	SD-65756-01	X				
	CODE RINGING		REQD	SD-65756-01	V				
			NOT REQD	SD-65756-01	U				
	TRUNK EQUIPPED AND ASSIGNED AS NON-CODE RINGING TRUNK			SD-65756-01	Y				
	TRUNK EQUIPPED AND UNASSIGNED			SD-65756-01	Z				
MESSAGE WAITING SERVICE			REQD	SD-65741-01	ZQ	20			
			NOT REQD	SD-65741-01				✓	
DIRECT STATION SELECTION BY STATIONS			REQD	SD-65742-01	ZE				
			NOT REQD	SD-65742-01	ZD	5		✓	
TRUNK APPEARANCE AT CORD SWITCHBOARD	RELAY EQUIPMENT	556A		SD-65752-01	ZE	10,30			
		606A OR 606D		SD-65752-01	ZF				
	JACK EQUIPMENT	556A		SD-65752-01					
		606A OR 606D		SD-65752-01					
		NOT REQD		SD-65752-01	ZM			✓	

DRAWING ISSUE

13D	FG, MS, PD
15D	JEK, MLS, TEB, TVG
16B	JH, POB
18B	EG, SJF, PD
20B	JJG, WVH, PD
21D	SAK, JFF, KEH, HW, WM
22AC	SAK, KFJ
25D	DWY, SAK, GFH
31D	CED, SAH, GFH
35B	PMC, RJS, RHP

PBX CABLING DIAGRAM

SD-65746-01-D3

BELL TELEPHONE LABORATORIES INCORPORATED

DWG SIZE 6S

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INDEX OF OPTIONAL FEATURES: (CONT) SEE NOTE 307
TABLE A: (CONT)

FEATURE	CIRCUIT DRAWING NUMBER	OPTIONS REQUIRED: OPT	CAD NUMBER SD-65746-01	OPT TO BE WIRED AT CONN BOX	OPT WIRED AT FACTORY	REMARKS
INDICATION CAMP-ON	SD-65752-01	6			✓	
	SD-65757-01	ZG		8	✓	
ATND CONTROLLED CONF	SD-65741-01	XC	1A,11,16		✓	
STA CONTROLLED CONF	SD-65741-01	XD	16		✓	
608A SWBD OR 608D	SD-65741-01	XY	45	✓		
	SD-66902-01	2	11,45		✓	
MAKE BUSY AND BUSY DISPLAY	SD-65752-01	YT	1,6		✓	
		YR	6,8,13		✓	
	SD-65753-01	ZA	1,9		✓	
	SD-65750-01	(S)	1		✓	OPT. NOT USED IN CAD I
	SD-65742-01	(XF)	1		✓	
	SD-65741-01	WQ, WP, WR	14,16	✓	✓ ✓	
BATTERY RESERVE	SD-66796-01	ZD	41		✓	

DRAWING ISSUE

21 D	BLD UFF KFJ	HW
26D	DWW SAK GFH	A
31 D	CED SAK GFH	
36D	JJR PJS RHP	HW
38D	JJR PJS RHP	
42B	BMM PJS DJ	B

SD-65746-01-D4

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PBX CABLING DIAGRAM (2) SD-65746-01-D4

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CIRCUIT NOTES

101.

DESIG	FUSE AMP	POTENTIAL	ONE PER	TERM. DESIG

(SEE NOTE 309)

102.

FEATURE OR OPTION	PROVIDE		
	APP FIG	APP OR WIRING	QUANTITY
BUSY VERIFICATION		Y	1 PER PBX
STATION DIAL TRANS		W	1 PER PBX
REMOTE TRK ANSWERING		T	1 PER PBX
STA CONTROLLED CONF		S	1 PER PBX
ATND CONTROLLED CONF		R	1 PER PBX
CO TRK APP AT CORD SWBD		N	1 PER PBX
DIAL TONE FOR TOUCH-TONE (BATTERYLESS)		K	1 PER PBX
INWARD RESTRICTION		H	1 PER PBX
EXTERNAL TRAFFIC REGISTERS		E	1 PER PBX
STATION MESSAGE REGISTER		ZA	1 PER PBX
MAKE BUSY AND BUSY DISPLAY		ZB	1 PER PBX
BATTERY RESERVE		ZE	1 PER PBX

104.

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	
21D	Z OR Y	Z	102	Y		Z	
21D	X OR W	X	102	W		X	
21D	V OR T	V	102	T		V	
21D	S	NONE	102	S			
21D	R	NONE	102	R			
23B	Q OR N	Q	102	N		Q	
23B	M OR K	M	102	K		M	
25D	J OR H	J	102	H		J	
28D	G OR F	G	–	F		G	
29D	E	NONE	102	E			
31D	B OR A	B	–	A		B	
32D	ZA	NONE	102	ZA			
36D	ZB	ZC	102	ZB		ZC	
38D	ZD OR ZE	ZD	102	ZE		ZD	
41D	ZF OR ZG	ZF	105, 106	ZG		ZF	
43D	ZH OR ZJ	ZH	–	ZJ		ZH	

105. PRIOR TO ISSUE 41D OPTION ZF WAS PART OF OPTION ZA.

106. WHEN THE MESSAGE REGISTER PULSE CIRCUIT IS ADDED TO A PBX AND THE MARKER IS EQUIPPED WITH APP FIG 9 AND WS OPTIONS, OPTION ZF MUST BE SPECIFIED INSTEAD OF OPTION ZG.

DRAWING ISSUE	
21D	RWB JFF KFJ
23B	WM SAK KFJ
25D	DMY SAK GFH
28D	ROZ GMK
29D	EWE GFH
31D	CED SAK GFH
32D	EWE SAK RHP
36D	JJR PJS RHP
38D	JJR PJS RHP
41D	WGN GFH RHP
43B	ROZ LDJ

HW

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PBX CABLING DIAGRAM (2)

BELL TELEPHONE LABORATORIES INCORPORATED

DWG SIZE 6S

SD-65746-01-D5

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E-2428 (5-80)

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SLIDE 1	SLIDE 2 PLUG A PIN NO.	PLT	SLIDE 3 PLUG A PIN NO.	PLT	SLIDE 4 PLUG A PIN NO.	PLT	SLIDE 5 PLUG A PIN NO.	PLT	SLIDE 6 PLUG A PIN NO.	PLT	LEAD DESIG
A	BL 1 TU3	M	1 TU5	M	1 TRUI	Z			1M LUCA	V	U00
	0 (ZB)								0		
	S (BT) KEY 12	AB	12		BL-W (X) 6 A SEE NOTE 3 12 10M RA (W)	AA			11M BTCA 12	T	HM07
	0 2 TU3 1	M	2 TU5 1	M	2 TRUO 1	Z			2M LUCA 1	V	U01
B	10		10		O-W L TRCI 10 SEE NOTE 2 (W) CONN AN4 PIN 1	Z			12 TRPI 10	Z	TRCLI TRT
	G 3 TU3 2	M	3 TU5 2	M	3 TRUO 2	Z			3M LUCA 2	V	U02
	G-W						(ZA)				
C	13		13		12 TRCO 13	Z			5M RGA 13	G	KPC
	BR 4 TU3 3	M	4 TU5 3	M	4 TRUO 3	Z			4M LUCA 3	V	U03
	14		BR-W 88 TM5 14	M	(V) 8 TM6 14	M			SEE SHEET 17 16		A1
D	S 5 TU3 4	M	5 TU5 4	M	5 TRUO 4	Z			5M LUCA 4	V	U04
	15		S-W 6B TM5 15	M	(V) 6 TM6 15 (T)	M					A2
	R 7 TU3 5	M	7 TU5 5	M	7 TRUI 5 PROVIDE ON 40 LINE PBX ONLY	Z	(ZP) BK-S LD 24 CO TRK 6 9		7M LUCA 5	V	U05
E	16		SEE SHEET G114 16		SEE SHEET G114 16				9M SD 14	G	LD
	BK 9 TU3 6	M	9 TU5 6	M	9 TRUI 6	Z			9M LUCA 6	V	U06
F	SEE SHEET G114 17		SEE SHEET G114 17		BK-W (V) 88 TM7 17	M			10M RLAA 17	T	A6
	R-G 10 TU3 7	M	10 TU5 7	M	10 TRUI 7	Z			10M LUCA 7	V	U07
	18		18		R-S (V) 1T L69 18	L			(V) 7B TEA3 18	AB	L6
G	R-BL-W 11 TU3 8	M	11 TU5 8	M	11 TRUI 8 CONN AL4 PIN 3 R-O-W	Z			11M LUCA 8	V	U08 TR8
	19		19		(V) 1T L79 19 (W) SEE NOTE 2	L			(V) 9B TEA3 19	AB	L7
	R-G-W 12 TU3 9	M	12 TU5 9	M	12 TRUI 9 CONN AL4 PIN 2 R-BR-W	Z			12M LUCA 9	V	U09 TR9
H	11		11		U TRCI 11	Z	BK-BL (ZP) LD 24 CO TRK 7 10		1 TRPI 11	Z	TRC01
									10M SD 15	G	LD

PART OF CAD 1

INTERSLIDE LEADS FOR 756A PBX

SHEET NOTES:

1. OPTIONS T,V & ZA ARE SHOWN ON SD-65741-01.
2. STRAPPED IN CROWN, SEE SD-66920-01 CAD 5.
3. OPTIONS X & W ARE SHOWN ON SD-65754-01

DRAWING ISSUE	
1	J.C. M.R.
2B	S.F.L. F.G.S
8B	CAR
18B	EG SJF PD
20B	JJG PD
23B	EE SAK KFJ
25D	DWY SAK GFH
36B	JJR DJS RHP
42B	BMM PJS LDJ

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PBX CABLING DIAGRAM (2)

BELL TELEPHONE LABORATORIES INCORPORATED

DWG SIZE 6S

SD-65746-01-G1

SD-65746-01-G1

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SLIDE 1	SLIDE 2 PLUG B PIN NO.	PLT	SLIDE 3 PLUG B PIN NO.	PLT	SLIDE 4 PLUG B PIN NO.	PLT	SLIDE 5	SLIDE 6 PLUG B PIN NO.	PLT	LEAD DESIG
	BL 1 THC3 0	M	1 THC5 0	M	(V) 1 THC7 0	M		1M HCB 0	Y	LH0
	BL-W 2 THC3 12	M	2 THC5 12	M	(V) 2 THC7 12	M		2M HCB 12	Y	LH1
	O 3 THC3 1	M	3 THC5 1	M	(V) 3 THC7 1	M		3M HCB 1	Y	LH2
	O-W 4 THC3 10	M	4 THC5 10	M	(V) 4 THC7 10	M		4M HCB 10	Y	LH3
	G 5 THC3 2	M	5 THC5 2	M	(V) 5 THC7 2	M		5M HCB 2	Y	LH4
	G-W 7 THC3 13	M	7 THC5 13	M	(V) 7 THC7 13	M		7M HCB 13	Y	LH5
	BR 9 THC3 3	M	9 THC5 3	M	(V) 9 THC7 3	M		9M HCB 3	Y	LH6
	BR-W 10 THC3 14	M	10 THC5 14	M	(V) 10 THC7 14	M		10M HCB 14	Y	LH7
	S 11 THC3 4	M	11 THC5 4	M	(V) 11 THC7 4	M		11M HCB 4	Y	LH8
	S-W 12 THC3 15	M	12 THC5 15	M	(V) 12 THC7 15	M		12M HCB 15	Y	LH9
	5 SEE SHEET 114 16		5		R R XBR SW 0 VERT 9 THM 5	T		4M RAOB 5	G	RHMO
			R-W R XBR SW 1 VERT 9 THM 16	N	16			4M RAIB 16	G	RHMI
	6		6		BK 5 XBR SW 0 VERT 8 LEV 0 6	T		2B RRLA 6	B T	DP REG 0
	17		17		P BK-W 4 XBR SW 0 VERT 8 LEV 0 17	T		3B RRLA 17	B R	
	7		7		R-G 3 XBR SW 0 VERT 8 LEV 0 7	T		B (S) RES 7	C S	
	18 SEE SHEET 8		R-S 3 XBR SW 1 VERT 8 LEV 0 18	N	SEE SHEET 17 18			B (S) RES 18	F S	DP REG 1
	8		P R-BL-W 5 XBR SW 1 VERT 8 LEV 0 8	N	SEE SHEET 17 8			2B RRLA 8	E T	
	19		R-O-W 4 XBR SW 1 VERT 8 LEV 0 19	N	SEE SHEET 17 19			3B RRLA 19	E R	
	9		R-G-W 3 XBR SW 1 VERT 9 LEV 0 9	N	SEE SHEET 17 9			6 RPI 9	Z	SMII
	11		R-BR-W 4 XBR SW 1 VERT 9 LEV 0 11	N	SEE SHEET 17 11			5 RPI 11	Z	SMIO

PART OF CAD 1

INTERSLIDE LEADS FOR 756A PBX

DRAWING ISSUE		
1	J.C. N.R.	W.S.
9D	J.R.S. MVH	TSB
25D	DMY SAK GFH	HO A
32D	BCM PJS RHP	
35	FMC PJS RHP	
	JJR PJS RHP	HW
40D	JJR SAK RHP	B
41D	WGN GAJ RHP	

SHEET NOTES:
1. OPTIONS V IS SHOWN ON SD-65741-01.

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PBX CABLING DIAGRAM (2) SD-65746-01-G2

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	SLIDE 1	SLIDE 2 PLUG C PIN NO.	PLT	SLIDE 3 PLUG C PIN NO.	PLT	SLIDE 4 PLUG C PIN NO.	PLT	SLIDE 5	SLIDE 6 PLUG C PIN NO.	PLT	LEAD DESIG
A		BL 1M TCS3 0	M	1M TCS5 0	M	1M TRCO 0	Z		12M JTA 0	Y	CSO
		12		12		BL-W 6 TRMO 12	Z		6M TRO 12	AB	AI2
B		O 2M TCS3 1	M	2M TCS5 1	M	2M TRCO 1	Z		11M JTA 1	Y	CSI
		10		10		O-W 4 TKAO 10	Z		11B TSDA 10	R	TTOA
C		G 3M TCS3 2	M	3M TCS5 2	M	3M TRCO 2	Z		10M JTA 2	Y	CS2
		GW 1 TKB8 13	L	13		U SMCO 13	AA		6M BTCA 13	T	SMCO
D		BR 4M TCS3 3	M	4M TCS5 3	M	4M TRCO 3	Z		6M S3 3	W	CS3
		SEE SHEET 45 14		14		BR-W 5 TKAO 14	Z		10B TSDA 14	R	TTEA
		S * 5M TCS3 4	M	5M TCS5 4	M	5M TRCO 4	Z		6M S4 4	W	CS4
E		S-W 7M SMC3 15	L	7M SMCI 15	V	7M SMCO CONN AL4 PIN 10 15	AA		4M LTS7 15	P	SM7
		R 7M TCS3 5	M	7M TCS5 5	M	7M TRCI 5	Z		12M JTB 5	X	CS5
		R-W 6M SMC3 16	L	6M SMCI 16	V	6M SMCO CONN AL4 PIN 11 16	AA		4M LTS6 16	P	SM6
		BK 9M TCS3 6	M	9M TCS5 6	M	9M TRCI 6	Z		11M JTB 6	X	CS6
F		SEE SHEET 45 17		17		BK-W 2M TKAO 17	Z		4 ICTA 17	T	ICT
		R-G 10M TCS3 7	M	10M TCS5 7	M	10M TRCI 7	Z		10M JTB 7	X	CS7
G		R-S 8M SMC3 18	L	8M SMCI 18	V	8M SMCO CONN AL4 PIN 9 18	AA		4M LTS8 18	P	SM8
		R-8L-W 11M TCS3 8	M	11M TCS5 8	M	11M TRCI 8	Z		6M S8 8	W	CS8
		R-O-W 9M SMC3 19	L	9M SMCI 19	V	9M SMCO CONN AL4 PIN 8 (W) SEE NOTE 1 19	AA		4M LTS9 19	P	SM9
H		R-G-W 12M TCS3 9	M	12M TCS5 9	M	12M TRCI 9	Z		6M S9 9	W	CS9
		R-BR-W 11		11		5 XBR SW O VERT 9 MULT 11			12M ON 11	RAI	DP REG O

PART OF CAD I

INTERSLIDE LEADS FOR 756A PBX

SHEET NOTES:

1. STRAPPED IN CROWN. SEE SD-66920-01 CAD 5.

DRAWING ISSUE	
1	J.C. M.R
16B	TVG JH POB
21D	GAP JFF KFJ
23B	EE SAK KFJ
36D	JJR PJS RHP

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PBX CABLING DIAGRAM (2) SD-65746-01-G3

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SD-65746-01-G3

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SLIDE 1	SLIDE 2 PLUG D PIN NO.	PLT	SLIDE 3 PLUG D PIN NO.	PLT	SLIDE 4 PLUG D PIN NO.	PLT	SLIDE 5	SLIDE 6 PLUG D PIN NO.	PLT	LEAD DESIG
	0		0		BL 4 D(JTR-3) 0	Y		7 JR3 0	X	S3
	BL-W 1M SMC3 12	L	1M SMCI 12	V	1M SMCO AA 12 CONN AL4 PIN 16			5 LEB 12	Q	SMI
	1		1		4 D(JTR-4) 1	Y		7 JR4 1	X	S4
	O-W 12 TKB8 10	L	10		12 TKB9 10	Z		8M CONAA 10 (T) SEE NOTE 2 CONN AY6 PIN 6	T	COSA
	S (JCTR3) KEY 2	AB	2		G 2 D(JTR-3) 2	Y		5 JR3 2	X	THM3
	G-W 12 SMC3 13	L	12 SMCI 13	V	12 SMCO AA 13 CONN AN4 PIN 0			4M TRCAA 13	Y	SMTA
	S (JCTR4) KEY 3	AB	3		BR 2 D(JTR-4) 3	Y		5 JR4 3	X	THM4
	BR-W 11 SMC3 14	L	11 SMCI 14	V	11 SMCO AA 14 CONN AM4 PIN 19 S (W) SEE NOTE 1			4M TRCBA 14	X	SMTB
	(JCTR3) ORIG LP 4	AB	4		10 B(JTR-3) 4	Y		4 JR3 4	X	OHM3
	S-W COT TIE TRK O ADPT 89 TS(A) 15	P	15		1 TRCO 15	Z		9M RGB 15	G	COT
	R (JCTR4) ORIG LP 5 (ZB)	AB	5		10 B(JTR-4) 5	Y		4 JR4 5	X	OHM4
	16		16		R-W 3 XBR SW 0 VERT 9 LEV 0 16	T		6 RPO 16	Z	SMOI
	BK TLA TIE TRK O ADPT 39 LINE TS 6	M	TLA STA O LINE 59 TS 6	M	TLA STA O LINE 79 TS 6	M		1U TT 6	R	TLA
	BK-W 17		17		5 XBR SW 0 VERT 9 LEV 0 17			12 ON 17	RA	DP REG 0
	R-G TLD TIE TRK O ADPT 39 LINE TS 7	M	TLD STA O LINE 59 TS 7	M	TLD STA O LINE 79 TS 7	M		2U TT 7	R	TLD
	18		18		R-S 4 XBR SW 0 VERT 9 LEV 0 18	T		5 RPO 18	Z	SMOO
	8		8		R-BL-W U SMC8 8	AA		9 JR4 8	X	SMC8
	R-O-W 3M TKB8 19	L	19		3M TKB9 19	Z		12M JTAA 19	Y	OF
	R-G-W 11 TKB8 9	L	9		11 TKB9 9	Z		8M CONBA 9 (T) SEE NOTE 2 CONN AY6 PIN 17	S	COSB
	R-BR-W 10M SMC3 11	L	10M SMCI 11	V	10M SMCO AA 11 CONN AL4 PIN 17 (W) SEE NOTE 1			3 LEB 11	Q	SMO

PART OF CAD 1

INTERSLIDE LEADS FOR 756A PBX

SHEET NOTES

1. STRAPPED IN CROWN. SEE SD-66920-01 CAD 5.
2. STRAPPED IN CROWN. SEE SD-66920-01, CAD 1.

DRAWING ISSUE		
1	J.C. M.R.	W.S.
16B	TVG JH POB	
21D	GAP JFF KEI	A
23B	EE SAK KFJ	HW
36D	JJR WJS RHF	HW

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PBX CABLING DIAGRAM

SD-65746-01-G4

BELL TELEPHONE LABORATORIES INCORPORATED

DWG SIZE 6S

PRINTED IN U. S. A.

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SLIDE 1	SLIDE 2 PLUG E PIN NO.	PLT	SLIDE 3	SLIDE 4 PLUG E PIN NO.	PLT	SLIDE 5 PLUG E PIN NO.	PLT	SLIDE 6 PLUG E PIN NO.	PLT	LEAD DESIG
	BL 18 AT 0	L				18 ATA 0	J			T1T
	BL-W 28 AT 12	L				28 ATA 12	J			T1R
	O 48 AT 1	L				38 ATA 1	J			T2T
	O-W 58 AT 10	L				48 ATA 10	J			T2R
	G 78 AT 2	L				58 ATA 2	J			T3T
	G-W 88 AT 13	L				68 ATA 13	J			T3R
	BR (S) 108 AT 3	L	(S)			(S) 78 ATA 3	J			T4T
	BR-W (S) 118 AT 14	L				88 ATA 14	J			T4R
	S U AT 4	L				U ATA 4	J			ATG
	S-W 1 TKA8 15	L		1 TKA9 15	Z	15		1 HCB 15	Y	TH0
	R 4 TKA8 5	L		4 TKA9 5	Z	5 SEE SHEET 111		4 HCB 5	Y	TH3
	R-W 2 TKA8 16	L		2 TKA9 16	Z	16		2 HCB 16	Y	TH1
	BK 3 TKA8 6	L		3 TKA9 6	Z	6 SEE SHEET 80		3 HCB 6	Y	TH2
	17 R-G					17				
	5 TKA8 7	L		5 TKA9 7	Z	SEE SHEET 111 7		5 HCB 7	Y	TH4
	R-S 7 TKA8 18	L		7 TKA9 18	Z	18		7 HCB 18	Y	TH5
	R-BL-W 9 TKA8 8	L		9 TKA9 8	Z	8		9 HCB 8	Y	TH6
	R-O-W 10 TKA8 19	L		10 TKA9 19	Z	19 SEE SHEET 80		10 HCB 19	Y	TH7
	R-G-W 11 TKA8 9	L		11 TKA9 9	Z	9		11 HCB 9	Y	TH8
	R-BR-W 12 TKA8 11	L		12 TKA9 11	Z	11		12 HCB 11	Y	TH9

PART OF CAD 1

INTERSLIDE LEADS FOR 756A PBX

DRAWING ISSUE	
1	J.C. P.K.
2B	SFL F65
8B	LRL H.W.
16B	TVG JH POB
36D	LJR PJS RBF
40D	JSR PJS RBF

SHEET NOTES:

1. OPTION S IS SHOWN ON SD-65743-01.

SD-65746-01-G5

PBX CABLING DIAGRAM (2) SD-65746-01-G5

BELL TELEPHONE LABORATORIES INCORPORATED 65

TCI Library www.telephonecollectors.info

SLIDE 1	SLIDE 2	SLIDE 3	SLIDE 4 PLUG E PIN NO.	SLIDE 4 PLT	SLIDE 5	SLIDE 6 PLUG E PIN NO.	SLIDE 6 PLT	LEAD DESIG
			BL 0	L TU6		12 0	TP6	TML6
			BL-W 12	U TU7		1 12	TP7	TMU7
			O 1	L TU7		12 1	TP7	TML7
			O-W 10	L TKB9		10 10	RCEI	TKL9
			G 2	U TU6		1 2	TP6	TMU6
			G-W 13	U TKB9		3M 13	RCEI	TKU9
			BR 3	L TRCO		12 3	TRPO	TRCLO
			BR-W 14	U TRCO		1 14	TRPO	TRCUO
			S 4	U TKBO		8 4	RCEI	TKUO
			15 5 16 6	SEE SHEET 5		15 5 16 6	SEE SHEET 5	
			BK-W 17	L TKBO		11 17	TRKA	TKLO
			7 18 8 19 9 11	SEE SHEET 5		7 18 8 19 9 11	SEE SHEET 5	

PART OF CAD 1

INTERSLIDE LEADS FOR 756A PBX

DRAWING ISSUE		
1	J.C. M.R.	W.S.
28	D.L.T. R.G.S.	W.S.
38	R.A.S. F.D.S.	W.S.
90	T.M.R. W.H.M.	TCB

SHEET NOTES:

1. OPTION V IS SHOWN ON SD-65741-01

NO. 756A PBX CABLING DIAGRAM	SD-65746-01-G6
BELL TELEPHONE LABORATORIES INCORPORATED	DWG SIZE 6S

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SLIDE 1	SLIDE 2 PLUG F PIN NO.	PLT	SLIDE 3 PLUG F PIN NO.	PLT	SLIDE 4 PLUG F PIN NO.	PLT	SLIDE 5	SLIDE 6 PLUG F PIN NO.	PLT	LEAD DESIG
	BL									
	0		0		0 2 XBR SW 0 VERT 9 MULT			0 11M ON		RB1 DP REG 0
	BL-W									
	12 1 TM3	M	12 1 TM5	M	12 1 TRMI	Z		12 9M JTA	Y	SLTO
	0									
	1		1		1 2 XBR SW 0 VERT 9 LEV 1			1 11 ON		RB DP REG 0
	O-W									
	10 5 TM3	M	10 5 TM5	M	10 5 TRMO	Z		10 1M S4	W	SLT4
	G									
	2		2 5 XBR SW 1 VERT 9 MULT		2			2 12M ON		RA1 DP REG 1
	G-W									
	13 7 TM3	M	13 7 TM5	M	13 7 TRMI	Z		13 9M JTB	X	SLT5
	BR									
	3 9 TM3	M	3 9 TM5	M	3 9 TRMI	Z		3 8M JTB	X	SLT6
	BR-W									
	14 12 TM3	M	14 12 TM5	M	14 (X) 12 TRMI (W) SEE NOTE 1 CONN AL4 PIN 4	Z		14 1M S9	W	SLT9 TFA (W)
	S									
	4 10 TM3	M	4 10 TM5	M	4 10 TRMI	Z		4 7M JTB	X	SLT7
	S-W									
	15 4 TM3	M	15 4 TM5	M	15 4 TRMO	Z		15 1M S3	W	SLT3
	R									
	5 11 TM3	M	5 11 TM5	M	5 (X) 11 TRMI (W) SEE NOTE 1 CONN AL4 PIN 7	Z		5 1M S8	W	SLT8 TFB (W)
	R-W									
	16 2 TM3	M	16 2 TM5	M	16 2 TRMO	Z		16 8M JTA	Y	SLTI
	BK									
	6 2M SMC3	L	6 2M SMCI	V	6 2M SMCO AA CONN AL4 PIN 15			6 4M LTS2	P	SM2
	BK-W									
	17 3M SMC3	L	17 3M SMCI	V	17 3M SMCO AA CONN AL4 PIN 14			17 4M LTS3	P	SM3
	R-G									
	7 4M SMC3	L	7 4M SMCI	V	7 4M SMCO AA CONN AL4 PIN 13			7 4M LTS4	P	SM4
	R-S									
	18 3 TM3	M	18 3 TM5	M	18 3 TRMO	Z		18 7M JTA	Y	SLT2
	R-BL-W									
	8 5M SMC3	L	8 5M SMCI	V	8 5M SMCO AA CONN AL4 PIN 12 (W) SEE NOTE 1			8 4M LTS5	P	SM5
	R-O-W									
	19		19 5 XBR SW 1 VERT 9 LEV 0		19			19 12 ON		RA DP REG 1
	9 SEE SHEET 46		9 SEE SHEET 46		9 SEE SHEET 46			9 SEE SHEET 46		
	R-BR-W									RB1
	11		11 2 XBR SW 1 VERT 9 MULT		11			11 11M ON		

PART OF CAD 1

INTERSLIDE LEADS FOR 756A PBX

DRAWING ISSUE		
1	JC MR	W.S.
3B	RAL FGS	W.S.
16B	TVG JH POB	NY A HW
21D	GAP JFF KFJ	
23B	EE SAK KFJ	

SHEET NOTES

1. STRAPPED IN CROWN. SEE SD-66920-01 CAD 5.

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PBX SYSTEMS
NO. 756A
PBX CABLING DIAGRAM (2)

SD-65746-01-G7

BELL TELEPHONE LABORATORIES INCORPORATED — DWG SIZE 6S — PRINTED IN U. S. A.

SD-65746-01-G7

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SLIDE 1	SLIDE 2 PLUG B PIN NO.	PLT.	SLIDE 3 PLUG G PIN NO.	PLT	SLIDE 4	SLIDE 5	SLIDE 6 PLUG G PIN NO.	PLT	LEAD DESIG
			BL 0 ← 1T L49	L			0 ← 9B TEAI	AB	L4
			BL-W 12 ← 1T L59	L			12 ← 11B TEAI	AB	L5
			0 1 ← U TU4	M			1 ← 1 TP4	Z	TMU4
			O-W 10 ← L TU4	M			10 ← 12 TP4	Z	TML4
			G 2 ← U TU5	M			2 ← 1 TP5	Z	TMU5
			G-W 13 ← L TU5	M			13 ← 12 TP5	Z	TML5
			BR 3 ← 4 D(JTR-0)	T			3 ← 7 JRO	X	SO
			BR-W 14 ← 4 D(JTR-5)	U			14 ← 7 JR5	X	S5
			S 4 ← 4 D(JTR-1)	T			4 ← 7 JRI	X	SI
	ZB 6 ← S (JCTRO) KEY	AB	S-W 15 ← 2 D(JTR-0)	T			15 ← 5 JRO	X	THMO
			R 5 ← 4 D(JTR-2)	U			5 ← 7 JR2	X	S2
	17 ← S (JCTRI) KEY	AB	R-W 16 ← 2 D(JTR-1)	T			16 ← 5 JRI	X	THMI
	7 ← S (JCTR2) KEY	AB	BK 6 ← 2 D(JTR-2)	U			6 ← 5 JR2	X	THM2
	18 ← S (JCTR5) KEY	AB	BK-W 17 ← 2 D(JTR-5)	U			17 ← 5 JR5	X	THM5
	8 ← (JCTRO) ORIG LP	AB	R-G 7 ← 10 B(JTR-0)	T			7 ← 4 JRO	X	OHMO
	19 ← (JCTR5) ORIG LP	AB	R-S 18 ← 10 B(JTR-5)	U			18 ← 4 JR5	X	OHM5
	9 ← (JCTRI) ORIG LP	AB	R-BL-W 8 ← 10 B(JTR-1)	T			8 ← 4 JRI	X	OHMI
			R-O-W 19 ← U SMCI	V			19 ← 9 JR5	X	SMCI
	11 ← (JCTR2) ORIG LP	AB	R-G-W 9 ← 10 B(JTR-2)	U			9 ← 4 JR2	X	OHM2
			11 ← 2 XBR SW 1 VERT 9 LEV 1				11 ← 11 ON	RB	DP REG 1

PART OF CAD 1

INTERSLIDE LEADS FOR 756A PBX

DRAWING ISSUE	
1	J.C. M.R.
168	T.V.G. J.H. P.O.B.
36D	J.J.R. P.J.S. R.H.F.

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PBX CABLING DIAGRAM (2)

BELL TELEPHONE LABORATORIES INCORPORATED

DWG SIZE 6S

SD-65746-01-G8

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TCI Library www.telephonecollectors.info

SLIDE 1	SLIDE 2	SLIDE 3	SLIDE 4 PLUG G PIN NO.	SLIDE 4 PLT	SLIDE 5 PLUG G PIN NO.	SLIDE 5 PLT	SLIDE 6	LEAD DESIG
			BL 0	1M TRUO Z	0	9 HM B		U0
			BL-W 12	4M TRUO Z	12	U3 TRK PTCH UNIT PG 3A 25 TRK 3 J		U3
			O 1	2M TRUO Z	1	9 HM D		U1
			O-W 10	12M TRUI Z	10	U9 TRK PTCH UNIT PG 9A 25 TRK 9 V		U9
			G 2	3M TRUO Z	2	9 HM F		U2
			G-W 13	7M TRUI Z	13	9 HM N		U5
			BR 3	9M TRUI Z	3	9 HM Q		U6
			BR-W 14	5M TRUO Z	14	U4 TRK PTCH UNIT PG 4A 25 TRK 4 J		U4
			S 4	10M TRUI Z	4	9 HM S		U7
			S-W 15	10M TRMI Z	15	6B HM S		ST97
			R 5	11M TRUI Z	5	U8 TRK PTCH UNIT PG 8A 25 TRK 8 V		U8
			R-W 16	2M TRMO Z	16	6B HM D		ST91
			BK 6	3M TRMO Z	6	6B HM F		ST92
			BK-W 17	4M TRMO Z	17	ST93 TRK PTCH UNIT PG 3A 11 TRK 3 J		ST93
			R-G 7	7M TRMI Z	7	6B HM N		ST95
			R-S 18	5M TRMO Z	18	ST94 TRK PTCH UNIT PG 4A 11 TRK 4 J		ST94
			R-BL-W 8	12M TRMI Z	8	ST99 TRK PTCH UNIT PG 9A 11 TRK 9 V		ST99
			R-O-W 19	9M TRMI Z	19	6B HM Q		ST96
			R-G-W 9	11M TRMI Z	9	ST98 TRK PTCH UNIT PG 8A 11 TRK 8 V		ST98
			R-BR-W 11	R (Y) 1M THM T TRMO Z (Z) (Y) SEE NOTE 1 PLUG PIN4	11	6B HM B		ST90

PART OF CAD 1

INTERSLIDE LEADS FOR 756A PBX

DRAWING ISSUE		
1	J.C. M.R.	W.S.
28	SFL F&S	W.S.
21D	SAK JFF KFJ	HW
23B	E.E. SAK KFJ	HW

SHEET NOTES:

1. SEE FEATURE CABLING DIAGRAM SD-66920-01, CAD 2.

NO. 756A PBX CABLING DIAGRAM (2) SD-65746-01-69

BELL TELEPHONE LABORATORIES INCORPORATED — DWG SIZE 6S — PRINTED IN U.S.A.

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SD-65746-01-69

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SLIDE 1	SLIDE 2 PLUG H PIN NO.	PLT	SLIDE 3	SLIDE 4 PLUG H PIN NO.	PLT	SLIDE 5 PLUG H PIN NO.	PLT	SLIDE 6 PLUG H PIN NO.	PLT	LEAD DESIG
	BL R-G KRAO SEE NOTE 1 (Q) 0			(Q)				11M POSI (Q) 0	G	KRAO
	BL-W 8 TK8 12	L						SEE NOTE 3 (XB) 4 HMTAA (XA) 2B BTTC 9 CONN AU 12	T R	RSA
	O 6 TKB8 1	L						5 RCE1 1	H	A7
	O-W R-S SG2 SEE NOTE 1 (Q) 10			(Q)				U POSI (Q) 10	G	SG2
	G IT L39 2	L						7B TEAI 2	AB	L3
	G-W 4 L29 13	P						5B TEAI 13	AB	L2
	BR 8 TKA8 3	L						SEE NOTE 3 (XB) 12 HMTAA (XA) 1B BTTC 8 CONN AU 3	T R	RSB
	BR-W U TU2 14	M						1 TP2 14	Z	TMU2
	S L TU2 4	M						12 TP2 4	Z	TML2
	S-W U TU3 15	M						1 TP3 15	Z	TMU3
	R L TU3 5	M						12 TP3 5	Z	TML3
	R-W L TK8 16	L						11 RCE1 16	H	TKL8
	BK U TK8 6	L						2M RCE1 6	H	TKU8
	BK-W TTLA TIE TRK ADPT 89 TS(A) 17	P						1L TT 17	R	TTLA
	R-G RTT TIE TRK ADPT 89 TS(A) 7	P						8M TT 7	R	RTT
	R-S R-BL-W SG3 SEE NOTE 1 (Q) 18			(Q)				12M POSI (Q) 18	G	SG3
	R-BL-W TTLD TIE TRK ADPT 89 TS(A) 8	P						2L TT 8	R	TTLD
	R-O-W R-O-W KRAI SEE NOTE 1 (Q) 19			(Q)				11M POS2 (Q) 19	H	KRAI
	R-G-W R-G-W SG2 SEE NOTE 1 (Q) 9			(Q)				U POS2 (Q) 9	H	SG2
	R-BR-W R-BR-W SG3 SEE NOTE 1 (Q) 11			7M TKB9 (22WC) SEE NOTE 4 11	Z	11		SEE NOTE 4 (22) 4 LT9 12M POS2 (Q) 6 LTS9 (WC) SEE NOTE 4 11	P H P	LG SG3 LG
	7M TKB8 (22WC) SEE NOTE 4	L								

PART OF CAD 1

INTERSLIDE LEADS FOR 756A PBX

SHEET NOTES:

1. CONNECT TO LEAD OF SAME DESIGNATION ON PLUG (U) OF SLIDE 2. SEE SHEET G30.
2. OPTION Q IS SHOWN ON SD-65742-01
3. OPTIONS XA AND XB ARE SHOWN ON SD-65741-01.
4. OPTIONS WC AND 22 ARE SHOWN ON SD-65741-01

DRAWING ISSUE	
1	J.C. M.R. W.S.
8B	LMK WWH TEB
10D	SJP S.T. PP
12D	P.G. M.S. FD
28D	Rec. NA 10 Gnd HMK
30B	CED SAK GFH
32D	BCM PJS RHP
37D	JJR PJS RHP
41D	PMC RHP

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PBX CABLING DIAGRAM (2)

BELL TELEPHONE LABORATORIES INCORPORATED

SD-65746-01-G10

TCI Library www.telephonecollectors.info

SLIDE 1	SLIDE 2	SLIDE 3	SLIDE 4 PLUG H PIN NO.	PLT	SLIDE 5 PLUG H PIN NO.	PLT	SLIDE 6	LEAD DESIG
			0		0			
			BL-W R XBR SW 0 VERT 5 THM 12	T	6B TN 12	Z		ATT TRK 1 HM
			0 2M TK9 1	Z	IT98 TRK PTCH UNIT PG 8A 17 TRK 8 1 (V)	V		IT98
			O-W 9M TK9 10	Z	IT93 TRK PTCH UNIT PG 3A 17 TRK 3 10 (V)	J		IT93
			G 7M TK9 2	Z	IT94 TRK PTCH UNIT PG 4A 17 TRK 4 2 (V)	J		IT94
			G-W 1M TK9 13	Z	IT99 TRK PTCH UNIT PG 9A 17 TRK 9 13 (V)	V		IT99
			BR 4M TK9 3	Z	IT96 CO TRK 18 TS 3 (V)	Q		IT96
			BR-W 3M TK9 14	Z	IT97 CO TRK 18 TS 14 (V)	S		IT97
			S 5M TK9 4	Z	(S,T) 12 ATA 4 CO TRK 18 TS (V)	J		IT95
			S-W 10M TK9 15	Z	11 ATA 15 (T)	J		IT92
			R 8B TKA0 PLUG PIN 7 5 R-W (Y) SEE NOTE 3	Z	RSE TRK PTCH UNIT PG 8A 13 TRK 8 5	V		RSE
			8B TKO CONN AM4 PIN 16 16 BK (W) SEE NOTE 4	Z	RSO TRK PTCH UNIT PG 9A 13 TRK 9 16 "F" STITCH	V		RSO
			12M TK9 6	Z	9 ATA 6 (T)	J		IT90
			BK-W 11M TK9 17	Z	10 ATA 17 (T)	J		IT91
			R-G R XBR SW 0 VERT 6 THM 7	T	6B TN 7	AA		ATT TRK 2 HM
			R-S 1T XBR SW 0 VERT 6 THM 18	T	10M AC 18	AA		TR02
			R-BL-W 1T XBR SW 0 VERT 5 THM 8	T	10M AC 8	Z		TR01
			R-O-W 1T XBR SW 8 VERT 0 THM 19	N	10M AC 19	Y		TR1
			R-G-W R XBR SW 8 VERT 0 THM 9	N	6B TN 9	Y		ATT TRK 0 HM
			SEE SHEET 10 11		SEE SHEET 10 11			

PART OF CAD 1

INTERSLIDE LEADS FOR 756A PBX

DRAWING ISSUE		
1	J.C. M.B.	W.S.
2B	SFL F.G.S.	W.S.
3B	RAL F.G.S.	W.S.
4B	J.C. J.E.H.	W.S.
8B	LMT M.D.H.	756A PBX
10D	R.F.H. R.F.	HO
21D	SAK JFF	HW
	KFJ	
	EE	
23B	SAK	
	KFJ	

SHEET NOTES:

1. OPTION S IS SHOWN ON SD-65743-01
2. OPTIONS V AND T ARE SHOWN ON SD-65752-01
3. SEE FEATURE CABLING DIAGRAM SD-66920-01, CAD 2.
4. STRAPPED IN CROWN. SEE SD-66920-01 CAD 5.

NO. 756A
PBX CABLING DIAGRAM (2)

SD-65746-01-G11

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BELL TELEPHONE LABORATORIES INCORPORATED — DWN SIZE 6S — PRINTED IN U. S. A.

SD-65746-01-G11

TCI Library www.telephonecollectors.info

SLIDE 1 PLUG J PIN NO.	PLT	SLIDE 2	SLIDE 3	SLIDE 4 PLUG J PIN NO.	PLT	SLIDE 5	SLIDE 6	LEAD DESIG
0 SEE SHEET 41				0 SEE SHEET 41				
12				12				
1 SEE SHEET 41				1 SEE SHEET 41				
10				10				
2 SEE SHEET 41				2 SEE SHEET 41				
13				13				
BR TPCO 23 REG TS 3	W			4 TKBO 3	Z			TPCO
BR-W TPC9 22 REG TS 14	W			4 TKB9 14	Z			TPC9
4				4				
15				15				
5 SEE SHEET 41				5 SEE SHEET 41				
16				16				
6				6				
BK-W OF9 15 REG TS 17	W			3 TKB9 17	Z			OF9
7 SEE SHEET 41				7 SEE SHEET 41				
R-S OFO 16 REG TS 18	W			3 TKBO 18	Z			OFO
8 SEE SHEET 41				8 SEE SHEET 41				
19 SEE SHEET 14				19 SEE SHEET 14				
9				9				
SEE SHEET 41				SEE SHEET 41				
11				11				

PART OF CAD I

INTERSLIDE LEADS FOR 756A PBX

DRAWING ISSUE 1 J.C. M.F. W.S

NO. 756A PBX CABLING DIAGRAM

SD-65746-01-G12

BELL TELEPHONE LABORATORIES INCORPORATED

SIZE 6S

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SLIDE 1	SLIDE 2 PLUG J PIN NO.	PLT	SLIDE 3 PLUG J PIN NO.	PLT	SLIDE 4	SLIDE 5	SLIDE 6	LEAD DESIG
	BL: P 0 T2 85	P	0 T2 85	V				T2 / R2 TIE TRK 85
	BL-W: 12 R2 85	P	12 R2 85	V				
	O: P 1 T2 86	P	1 T2 86	V				T2 / R2 TIE TRK 86
	O-W: 10 R2 86	P	10 R2 86	V				
	G: P 2 T2 87	P	2 T2 87	V				T2 / R2 TIE TRK 87
	G-W: 13 R2 87	P	13 R2 87	V				
	BR: P 3 T2 88	P	3 T2 88	V				T2 / R2 TIE TRK 88
	BR-W: 14 R2 88	P	14 R2 88	V				
	S: P 4 T2 89	P	4 T2 89	V				T2 / R2 TIE TRK 89
	S-W: 15 R2 89	P	15 R2 89	V				
	R: P 5 T 85	P	5 T 85	V				T / R TIE TRK 85
	R-W: 16 R 85	P	16 R 85	V				
	BK: P 6 T 86	P	6 T 86	V				T / R TIE TRK 86
	BK-W: 17 R 86	P	17 R 86	V				
	R-G: P 7 T 87	P	7 T 87	V				T / R TIE TRK 87
	R-S: 18 R 87	P	18 R 87	V				
	R-BL-W: P 8 T 88	P	8 T 88	V				T / R TIE TRK 88
	R-O-W: 19 R 88	P	19 R 88	V				
	R-G-W: P 9 T 89	P	9 T 89	V				T / R TIE TRK 89
	R-BR-W: 11 R 89 TIE TRK ADPT TS(8)	P	11 R 89 TIE TRK TS(8)	V				

PART OF CAD 1

INTERSLIDE LEADS FOR 756A PBX

DRAWING ISSUE: 1 | J.C. M.K. | W.S.

NO. 756A PBX CABLING DIAGRAM

SD-65746-01-G13

BELL TELEPHONE LABORATORIES INCORPORATED

SIZE 6S

PRINTED IN U.S.A.

SD-65746-01-G13

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SLIDE 1 PLUG J PIN NO.	PLT	SLIDE 2	SLIDE 3	SLIDE 4 PLUG J PIN NO.	PLT	SLIDE 5 PLUG J PIN NO.	PLT	SLIDE 6 PLUG J PIN NO.	PLT	LEAD DESIG
						BL: MO TRK PTCH OUNIT PG 9A V 7 TRK 9 — 0		7 COB — 0	S	MO
						BL-W: ME TRK PTCH OUNIT PG 8A V 7 TRK 8 — 12		7 COA — 12; CONN AY6 PIN 14 SEE NOTE 3	T	ME
						O: FFO TRK PTCH OUNIT PG 9A V 5 TRK 9 — 1		5 HMTBA — 1; CONN AW6 PIN 1	S	FFO
						O-W: FFE TRK PTCH OUNIT PG 8A V 5 TRK 8 — 10		7 HMTBA — 10; CONN AW6 PIN 10	S	FFE
						G: TTO TRK PTCH OUNIT PG 9A V 14 TRK 9 — 2		11B TSDA — 2	R	TTO
						G-W: TTE TRK PTCH OUNIT PG 8A V 14 TRK 8 — 13		10B TSDA — 13	R	TTE
						BR: BYO TRK PTCH OUNIT PG 9A V 12 TRK 9 — 3		3B TSDA — 3	R	BYO
						BR-W: CW TRK PTCH OUNIT PG 9A V 10 TRK 9 — 14		4M COBA — 14	R	CW
						S: TLAO TRK PTCH OUNIT PG 9A V 15 TRK 9 — 4		9B TSDA — 4	R	TLAO
						S-W: TLAE TRK PTCH OUNIT PG 8A V 15 TRK 8 — 15		8B TSDA — 15	R	TLAE
						R: RLSO TRK PTCH OUNIT PG 9A V 8 TRK 9 — 5		7 RLBB — 5; CONN AW6 PIN 5 SEE NOTE 3	S	RLSO
						R-W: LD TRK PTCH OUNIT PG 9A V 30 TRK 9 — 16		12M SDO — 16		LD
						BK: RTO TRK PTCH OUNIT PG 9A V 6 TRK 9 — 6		12 NT — 6	L	RTO
						BK-W: 6 SL AA — 17		6M NT — 17	L	KO
						R-G: NT TRK PTCH OUNIT PG 9A V 16 TRK 9 — 7		L NT — 7; CONN AY6 PIN 3 SEE NOTE 3	L	NT
						R-S: RTE TRK PTCH OUNIT PG 8A V 6 TRK 8 — 18		10 NT — 18	L	RTE
						R-BL-W: RLSE TRK PTCH OUNIT PG 8A V 8 TRK 8 — 8		7 RLA8 — 8; CONN AW6 PIN 8 SEE NOTE 3	T	RLSE
						SEE NOTE 4; BT ATT TRK 2 TS 16 TS AA — 19; CONN AS5 PIN 15		4M BY — 19	F	BT
						R-G-W: BYE TRK PTCH OUNIT PG 8A V 12 TRK 8 — 9		2B TSDA — 9	R	BYE
						R-BR-W: LD TRK PTCH OUNIT PG 8A V 30 TRK 8 — 11		11M SDO — 11		LD

SEE NOTE 3; S CONN AY1 PIN 10; R-O-W; MULT TO PLUG D PIN 18; BT RING INT 6 UNIT TS C — 19; ZE 3 JI CONN; ZD SEE NOTE 1; SEE NOTE 2

B (A) CAP AA — 19

PART OF CAD 1

INTERSLIDE LEADS FOR 756A PBX

SHEET NOTES:

(MD) 1. WHEN J86464A POWER SUPPLY IS PROVIDED.
2. WHEN J86464L POWER SUPPLY IS PROVIDED.
3. STRAPPED IN CROWN. SEE SD-66920-01, CAD 1.
4. STRAPPED IN CROWN. SEE SD-66920-01, CAD 4.

DRAWING ISSUE		
1	J.C. M.R.	W.S.
3B	R.A.L. F.G.S.	W.S.
16B	TVG JH POB	
17D	M.R. R.S. F.P.	
21D	SAK JFF KFJ	PMJW HW
23B	EE SAK KFJ	
25D	DMY SAK GFH	
38D	JJR RTS RHF	
41D	WGN RHF	

PBX CABLING DIAGRAM (2) — SD-65746-01-GI4

BELL TELEPHONE LABORATORIES INCORPORATED — DWG SIZE 6S — PRINTED IN U.S.A.

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SLIDE 1 PLUG K PIN NO.	PLT	SLIDE 2 PLUG K PIN NO.	PLT	SLIDE 3 PLUG K PIN NO.	PLT	SLIDE 4 PLUG K PIN NO.	PLT	SLIDE 5 PLUG K PIN NO.	PLT	SLIDE 6 PLUG K PIN NO.	PLT	LEAD DESIG
BL ROF 0 — REG TS 11	X									5 ARBA 0	AB	ROF
BL-W JOF 12 — REG TS 17	X									12 JTAA 12	Y	JOF
O LOF 1 — REG TS 12	X									4M ALBB 1	P	LOF
O-W OPC9 10 — REG TS 25	X									4 RGBA 10	G	OPC9
G BTOF 2 — REG TS 13	X									1 BTCA 2	T	BTOF
G-W OPC8 13 — REG TS 24	X									5 RGBA 13	G	OPC8
BR TRPC 3 — REG TS 35	X									1M RLSAA 3	K	TRPC
BR-W OF8 14 — REG TS 14	X	3 TKB8 14	L							SEE SHEET 16 14		OF8
S STPC 4 — REG TS 34	X									12 STAR 4	K	STPC
S-W TPC8 15 — REG TS 21	X	4 TKB8 15	L							SEE SHEET 16 15		TPC8
R TPC 5 — REG TS 32	X									5 TRPI 5	Z	TPC
R-W NCPC 16 — REG TS 36	X									6M NAA 16	K	NCPC
BK TOPC 6 — REG TS 33	X									6B TOLA 6	K	TOPC
SEE NOTE 5 (K) D J1 CONN	A											
BK-W (ZE) MULT TO PLUG D PIN 17												
SEE NOTE 3 DT RING INT 11 UNIT TS 27 J1 CONN (M)	C	DT TIE TRK ADPT 53 MISC TS 17 — "F" STITCH	P							5 ON 17	E	TTI (K,ZE) DT (M)
R-G SEE NOTE 4 JPC 7 — REG TS 27	X									6M JTAA 7	Y	JPC
R-S OPC 18 — REG TS 31	X									5 TP5 18	Z	OPC
R-BL-W U 8 TAL	AA	8 THC3 8	M	8 THC5 8	M	8 TRCI 8	Z			6 TA5 8	AB	TAL
R-O-W U 19 BCO	X	TIE TRK ADPT 54 MISC TS (ZC) 19	P	(Z) 11 B (JTR-1) 19	T	(Z) 4 A 19	AA	R-BR-W PLUG U PIN 11 — SEE SHEET G32 19		(F) 2 ON 19	E	NS MS (MD)
R-G-W BTPC 9 — REG TS 26	X									3 BTCA 9	T	BTPC
R-BR-W 11 TR 11	X									4 RT 11	E	PL

PART OF CAD 1

INTERSLIDE LEADS FOR 756A PBX

SHEET NOTES:

1. OPTION Z IS SHOWN ON SD-65750-01 AND OPTION F IS SHOWN ON SD-65742-01.
2. OPTIONS R & S ARE SHOWN ON SD-65743-01.
3. (MD) WHEN J86464A POWER SUPPLY IS PROVIDED.
4. WHEN J86464L POWER SUPPLY IS PROVIDED.
5. SHOWN ON SD-81719-01.

DRAWING ISSUE		
1	JC MR	WS
2B	DLT EGS	WS
11B	RAH WH	PD
14B	CAS HP	POB
16B	TVG JH	A NY
17D	MR MS PD	HC
23B	WAM SAK KFJ	HW
28D	ROZ GFH	HW
WORN DRAWING REPRODUCED WITHOUT CHANGE 2-6-67 JJR		B
36D	JJR PJS RHP	HW
38D	JJR PJS RHP	C

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PBX CABLING DIAGRAM (2)

SD-65746-01-G15

BELL TELEPHONE LABORATORIES INCORPORATED — SIZE 6S — PRINTED IN U.S.A.

SD-65746-01-G15

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PART OF CAD 1

INTERSLIDE LEADS FOR 756A PBX

SLIDE 1	SLIDE 2 PLUG K PIN NO.	PLT	SLIDE 3 PLUG K PIN NO.	PLT	SLIDE 4 PLUG K PIN NO.	PLT	SLIDE 5 PLUG K PIN NO.	PLT	SLIDE 6 PLUG K PIN NO.	PLT	LEAD DESIG
A	BL 6B TKB8 0	L			6 TKB9 0	Z	0	SEE SHEET III			A8
	BL-W 6 TM2 12	M			6B TRMI 12	Z	12				A9
B	0 6M TKB8 1	L			8 TKB9 1	Z	1				A10
	0-W 8 TM2 10	M			8B TRMI 10	Z	10				A11
	G 2		2		2		2				SPARE
C	G-W 8B TK8 13	L			8 TK9 13	Z	13	SEE SHEET III			RSC
	BR 8B TKA8 3	L			8 TKA9 3	Z	3				RSD
D	SEE SHEET 15 14				BR-W 2T XBR SW 8 VERT 0 CONN AN4 THM PIN 4 (W) SEE NOTE 2 14	N	TRI TRK PTCH UNIT PG 9A V 26 TRK 9 (X) 14		3B TEA1 14	AB	TR TRI
	S 4		4		4		4				SPARE
	SEE SHEET 15 15				S-W 2T XBR SW 0 VERT 6 CONN AN4 THM PIN 6 15	T	TRO TRK PTCH UNIT PG 4A J 26 TRK 4 (X) 15		1B TEA1 15	AB	TRO TROA
E	SEE SHEET 17 5				R (Z) 5 XBR SW 0 VERT 6 LEV 0 PLUG PIN 48 5	T	2 AC 5	AA			T
	16 SEE SHEET 17 6				P R-W (Z) 4 XBR SW 0 VERT 6 LEV 0 PLUG PIN 23 16 BK	T	4 AC 16	AA			R ATT TRK 2
					(Z) 3 XBR SW 0 VERT 6 LEV 0 PLUG PIN 47 6 BK-W	T	2M OUT 6	AA			S
F	SEE SHEET 15 17				1M TKO 17	Z	12 HD 17	Y			IT00
	7				R-G 2M TKO 7	Z	12 HD 7	Z			IT01
	18				R-S 4 XBR SW 0 VERT 5 THM 18	T	11M AC 18	Z			U5
G	8 SEE SHEET 15 19				(Y) SEE NOTE 1 8 SEE SHEET 15 19		8 SPARE SEE SHEET 15 19				
H	SEE SHEET 17 9				R-G-W (Z) 4 XBR SW 0 VERT 6 THM PLUG PIN 6 9 R-BR-W	T	11M AC 9	AA			U6
	SEE SHEET 17 11				4 XBR SW 8 VERT 0 THM 11	N	11M AC 11	Y			U0

SHEET NOTES:
1. SEE FEATURE CABLING DIAGRAM SD-66920-01, CAD 2.
2. STRAPPED IN CROWN. SEE SD-66920-01 CAD 5.

DRAWING ISSUE	
1	JC MR
2B	SFL FGS
3B	RAL FGS
6D	JAB AMY
9D	LAE MKM
13D	JAT AJS
16B	TVG JH
21D	ROB GAP JFF KFJ
23B PMJD	EE SAK KFJ
25D	DMY SAK GFH
35D	PMC PJS RHP
36D	JJR PJS RHP

PMJD

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PBX CABLING DIAGRAM (2) SD-65746-01-G16

BELL TELEPHONE LABORATORIES INCORPORATED — DWG SIZE 6S — PRINTED IN U. S. A.

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SLIDE 1 PLUG H PIN NO.	PLT	SLIDE 2 PLUG K PIN NO.	PLT	SLIDE 3 PLUG K PIN NO.	PLT	SLIDE 4 PLUG B PIN NO.	PLT	SLIDE 5	SLIDE 6 PLUG P PIN NO.	PLT	LEAD DESIG
BL-O (H) IR 10 TO FP BAT.	Y			19 CONN AD 0							IR BAT.
BL-W IR 12 TO FP GRD	Y			11 CONN AD 12							IR GRD
				1							
				10							
				SEE SHEET 16 2							
				13							
				3		ZA 9 PLUG I AB 18			ZA 7 CONN AU 12		BVS
ZA 1 CONN P 11				14					18 CONN AU 13		EXT
				SEE SHEET 16 4							
				15							
		8 TCS3 5 (H)	M	8 TCS5 5 (H)	M	8 TCS7 8 (H)	M		2M COTA 0 (H)	T	TC
R-W 6B TM3 16	M			6 TM4 16	M						A5
BK 8B TM3 6	M			8 TM4 6	M						A4
				17		BL-BR (H) 34 PLUG I 19	AB		PLUG A (H) 2 COTA 16	T	NN
				BL-G (H) 5 CONN AD 7		8M TCS6 9	M				IR6
				BL-S 6 CONN AD 18		8M TCS7 11	M				IR7
				SEE SHEET 15 8							
				SEE SHEET 15 19							
R-G-W (H) 8M TCS2 9	M			0 CONN AD 9							IR2
R-BR-W 8M TCS3 11	M			1 CONN AD 11							IR3

PART OF CAD 1

INTERSLIDE LEADS FOR 756A PBX

DRAWING ISSUE

1	J.C M.R	W.S.
250	DWY SAK GFH PMC	
320	PJS RHP	
350	PMC PJS RHP	

PBX CABLING DIAGRAM (2) SD-65746-01-GIT

BELL TELEPHONE LABORATORIES INCORPORATED — DWG SIZE 6S — PRINTED IN U. S. A.

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SD-65746-01-GIT

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SLIDE 1	SLIDE 2 PLUG L PIN NO.	PLT	SLIDE 3 PLUG L PIN NO.	PLT	SLIDE 4	SLIDE 5	SLIDE 6	LEAD DESIG
	BL							
	TI 0 85	P	TI 0 85	V				TI / RI — TIE TRK 85
	BL-W							
	RI 12 85	P	RI 12 85	V				
	O							
	TI 1 86	P	TI 1 86	V				TI / RI — TIE TRK 86
	O-W							
	RI 10 86	P	RI 10 86	V				
	G							
	TI 2 87	P	TI 2 87	V				TI / RI — TIE TRK 87
	G-W							
	RI 13 87	P	RI 13 87	V				
	BR							
	TI 3 88	P	TI 3 88	V				TI / RI — TIE TRK 88
	BR-W							
	RI 14 88	P	RI 14 88	V				
	S							
	TI 4 89	P	TI 4 89	V				TI / RI — TIE TRK 89
	S-W							
	RI 15 89	P	RI 15 89	V				
	R							
	SI 5 85	P	SI 5 85	V				SI / S2 — TIE TRK 85
	R-W							
	S2 16 85	P	S2 16 85	V				
	BK							
	SI 6 86	P	SI 6 86	V				SI / S2 — TIE TRK 86
	BK-W							
	S2 17 86	P	S2 17 86	V				
	R-G							
	SI 7 87	P	SI 7 87	V				SI / S2 — TIE TRK 87
	R-S							
	S2 18 87	P	S2 18 87	V				
	R-BL-W							
	SI 8 88	P	SI 8 88	V				SI / S2 — TIE TRK 88
	R-O-W							
	S2 19 88	P	S2 19 88	V				
	R-G-W							
	SI 9 89	P	SI 9 89	V				SI / S2 — TIE TRK 89
	R-BR-W							
	S2 11 89 TIE TRK ADPT TS(8)	P	S2 11 89 TIE TRK TS(8)	V				

PART OF CAD 1

INTERSLIDE LEADS FOR 756A PBX

CRAWING ISSUE 1 J.C. M.R. W.S.

NY HD

NO. 756A
PBX CABLING DIAGRAM

SD-65746-01-G18

BELL TELEPHONE LABORATORIES INCORPORATED — SIZE 6S — PRINTED IN U.S.A.

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SLIDE 1	SLIDE 2	SLIDE 3	SLIDE 4 PLUG L PIN NO.	SLIDE 4 PLT	SLIDE 5 PLUG L PIN NO.	SLIDE 5 PLT	SLIDE 6	LEAD DESIG
			BL: 5 XBR SW 0 VERT 0 LEV 0 T, 0		7B BY, 0	B		T, R, S — CO TRK 0
			P BL-W: 4 XBR SW 0 VERT 0 LEV 0 T, 12		5B BY, 12	B		
			0: 3 XBR SW 0 VERT 0 LEV 0 T, 1		8 BY, 1	B		
			0-W: 3 XBR SW 0 VERT 1 LEV 0 T, 10		8 BY, 10	D		S, T, R — CO TRK 1
			G: 5 XBR SW 0 VERT 1 LEV 0 T, 2		7B BY, 2	D		
			P G-W: 4 XBR SW 0 VERT 1 LEV 0 T, 13		5B BY, 13	D		
			BR: 5 XBR SW 0 VERT 2 LEV 0 T, 3		7B BY, 3	F		T, R, S — CO TRK 2
			P BR-W: 4 XBR SW 0 VERT 2 LEV 0 T, 14		5B BY, 14	F		
			S: 3 XBR SW 0 VERT 2 LEV 0 T, 4		8 BY, 4	F		
			S-W: 3 XBR SW 0 VERT 3 LEV 0 T, 15		S TRK PTCH UNIT PG 3A 9 TRK 3, 15	J		S, T, R — CO TRK 3
			R: 5 XBR SW 0 VERT 3 LEV 0 T, 5		T TRK PTCH UNIT PG 3A 3 TRK 3, 5	J		
			P R-W: 4 XBR SW 0 VERT 3 LEV 0 T, 16		R TRK PTCH UNIT PG 3A 4 TRK 3, 16	J		
			BK: 5 XBR SW 0 VERT 4 LEV 0 T, 6		T TRK PTCH UNIT PG 4A 3 TRK 4, 6	J		T, R, S — CO TRK 4
			P BK-W: 4 XBR SW 0 VERT 4 LEV 0 T, 17		R TRK PTCH UNIT PG 4A 4 TRK 4, 17	J		
			R-G: 3 XBR SW 0 VERT 4 LEV 0 T, 7		S TRK PTCH UNIT PG 4A 9 TRK 4, 7	J		
			R-S: 3 XBR SW 8 VERT 5 LEV 0 N, 18		8 BY, 18	N		S, T, R — CO TRK 5
			P R-BL-W: 5 XBR SW 8 VERT 5 LEV 0 N, 8		7B BY, 8	N		
			P R-O-W: 4 XBR SW 8 VERT 5 LEV 0 N, 19		5B BY, 19	N		
			R-G-W: 3M TKO, 9	Z	12 HD, 9	AA		ITO2
			R-BR-W: 1M TRMI, 11	Z	6 HD, 11	Y		ITO5

PART OF CAD 1

INTERSLIDE LEADS FOR 756A PBX

DRAWING ISSUE		
1	J.C. M.R.	W.S.
2B	S.F.L. F.G.S.	W.S.
6D	J.R. W.R.	T.B.
9D	L.M.P. W.W.R.	T.B. P.C.
12D	R.G. W.S.	

NO. 756A
PBX CABLING DIAGRAM

BELL TELEPHONE LABORATORIES INCORPORATED

PAGE 6S

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SD-65746-01-GIG

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SLIDE 1	SLIDE 2	SLIDE 3	SLIDE 4 PLUG M PIN NO.	PLT	SLIDE 5 PLUG M PIN NO.	PLT	SLIDE 6	LEAD DESIG
			BL: 5 XBR SW 8 VERT 6 LEV 0 N (P)		7B BY	Q		T R S CO TRK 6
			BL-W: 4 XBR SW 8 VERT 6 LEV 0 N		5B BY	Q		
			O: 3 XBR SW 8 VERT 6 LEV 0 N		8 BY	Q		
			O-W: 3 XBR SW 8 VERT 7 LEV 0 N		8 BY	S		S T R CO TRK 7
			G: 5 XBR SW 8 VERT 7 LEV 0 N (P)		7B BY	S		
			G-W: 4 XBR SW 8 VERT 7 LEV 0 N		5B BY	S		
			BR: 5 XBR SW 8 VERT 8 LEV 0 N (P)		T TRK PTCH UNIT PG 8A TRK 8	V		T R S CO TRK 8
			BR-W: 4 XBR SW 8 VERT 8 LEV 0 N		R TRK PTCH UNIT PG 8A TRK 8	V		
			S: 3 XBR SW 8 VERT 8 LEV 0 N		S TRK PTCH UNIT PG 8A TRK 8	V		
			S-W: 3 XBR SW 8 VERT 9 LEV 0 N		S TRK PTCH UNIT PG 9A TRK 9	V		S T R CO TRK 9
			R: 5 XBR SW 8 VERT 9 LEV 0 N (P)		T TRK PTCH UNIT PG 9A TRK 9	V		
			R-W: 4 XBR SW 8 VERT 9 LEV 0 N		R TRK PTCH UNIT PG 9A TRK 9	V		
			BK: 5 XBR SW 8 VERT 0 LEV 0 N (P)		2 AC	Y		T R S ATT TRK 0
			BK-W: 4 XBR SW 8 VERT 0 LEV 0 N		4 AC	Y		
			R-G: 3 XBR SW 8 VERT 0 LEV 0 N		2M OUT	Y		
			R-S: 3 XBR SW 0 VERT 5 LEV 0 T		2M OUT	Z		S T R ATT TRK 1
			R-BL-W: 5 XBR SW 0 VERT 5 LEV 0 T (P)		2 AC	Z		
			R-O-W: 4 XBR SW 0 VERT 5 LEV 0 T		4 AC	Z		
			R-G-W: 7M TRMO	Z	8 B	Z		IT06
			R-BR-W: (Z) 9M TRMO "F" STITCH (Y) SEE NOTE 1 PLUG PIN 30	Z	8 B	AA		IT07

PART OF CAD 1

INTERSLIDE LEADS FOR 756A PBX

SHEET NOTES:
1. SEE FEATURE CABLING DIAGRAM SD-66920-01, CAD 2.

DRAWING ISSUE	
1	ZC RM
5B	RM AA
12D	AA
13D	RM
16B	JM RCB
21D	LAP JFK RCB
23B	EE SMK JM

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PBX SYSTEMS
NO. 756A
PBX CABLING DIAGRAM (2)

SD-65746-01-G20

BELL TELEPHONE LABORATORIES INCORPORATED — DWG SIZE 6S

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	SLIDE 1 PLUG N PIN NO.	PLT	SLIDE 2	SLIDE 3	SLIDE 4	SLIDE 5	SLIDE 6 PLUG N PIN NO.	PLT	LEAD DESIG
A	BL U 0 RLAL	AA					9B 0 ALBA	P	RLAL
	BL-W 11 12 AL	AB					2M 12 TS	R	CA
B	1						1 SEE SHEET 22		
	10						10		
	G U 2 UALI	AA					8 2 BSYBA	U	UALI
C	G-W U 13 LAL2	AA					8 13 SMTB	Q	LAL2
	BR U 3 TRAL	AA					7 3 TA5	AB	TRAL
	BR-W U 14 UAL	AA					6 14 TRKAA	Y	UAL
D	4						4 SEE SHEET 22		
	15						15		
	R 6 5 MAL	AB					8 5 LUCB	U	MAL
E	R-W 12M 16 A2	AB					11 16 DC	D	RT
	BK 11B 6 TR	X					4M 6 RT	E	PLB
	BK-W 10B 17 TAL	AA					7 17 TOKA	K	TALB
F	7 SEE SHEET 114						7 SEE SHEET 22		
	18						18		
G	R-BL-W 5B 8 A3	AB					11M 8 DC	D	RTI
	R-O-W U 19 HO	AB					6M 19 MTA	K	MT
H	9 SEE SHEET 22						9 SEE SHEET 22		
	11						11		

PART OF CAD 1

INTERSLIDE LEADS FOR 756A PBX

DRAWING ISSUE	
1	J.C. M.K.
2B	A.J.F. F.G.S.
3B	R.A.I. F.G.S.
4B	J.C. J.F.H.
5D	V.P. M.S.
9D	I.F.H. M.F.M.
41D	W.G.M. G.B. R.M.P.

SD-65746-01-G21

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PBX CABLING DIAGRAM (2) SD-65746-01-G21

BELL TELEPHONE LABORATORIES INCORPORATED DWG SIZE 6S PRINTED IN U. S. A.

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SLIDE 1 PLUG N PIN NO.	PLT	SLIDE 2 PLUG N PIN NO.	PLT	SLIDE 3 PLUG N PIN NO.	PLT	SLIDE 4 PLUG N PIN NO.	PLT	SLIDE 5	SLIDE 6 PLUG N PIN NO.	PLT	LEAD DESIG
		BL 2 XBR SW 3 VERT 9 LEV 2	F	2 XBR SW I VERT 8 LEV 2	N	2 XBR SW 0 VERT 8 LEV 2	T				T12
		BL-W 1 XBR SW 3 VERT 9 LEV 2	F	1 XBR SW I VERT 8 LEV 2	N	1 XBR SW 0 VERT 8 LEV 2	T				R12
		0 XBR SW 3 VERT 9 LEV 2 T (LINK 12) KEY	F AB	0 XBR SW I VERT 8 LEV 2	N	0 XBR SW 0 VERT 8 LEV 2	T		17 LTCB 12M TRLA	N Q	S12
		O-W 3 XBR SW 3 VERT 9 LEV 2 T (LINK 02) KEY	F AB	3 XBR SW I VERT 8 LEV 2	N	3 XBR SW 0 VERT 8 LEV 2	T		9 LTCB 12B TRLA	N Q	S02
		G 5 XBR SW 3 VERT 9 LEV 2	F	5 XBR SW I VERT 8 LEV 2	N	5 XBR SW 0 VERT 8 LEV 2	T				T02
		G-W 4 XBR SW 3 VERT 9 LEV 2	F	4 XBR SW I VERT 8 LEV 2	N	4 XBR SW 0 VERT 8 LEV 2	T				R02
		BR 2 XBR SW 3 VERT 9 LEV 3	G	2 XBR SW I VERT 8 LEV 3	P	2 XBR SW 0 VERT 8 LEV 3	U				T13
		BR-W 1 XBR SW 3 VERT 9 LEV 3	G	1 XBR SW I VERT 8 LEV 3	P	1 XBR SW 0 VERT 8 LEV 3	U				R13
		S 0 XBR SW 3 VERT 9 LEV 3 T (LINK 13) KEY	G AB	0 XBR SW I VERT 8 LEV 3	P	0 XBR SW 0 VERT 8 LEV 3	U		18 LTCB 11M TRLA	N Q	S13
		S-W 3 XBR SW 3 VERT 9 LEV 3 T (LINK 03) KEY	G AB	3 XBR SW I VERT 8 LEV 3	P	3 XBR SW 0 VERT 8 LEV 3	U		10 LTCB 11B TRLA	N Q	S03
		R 5 XBR SW 3 VERT 9 LEV 3	G	5 XBR SW I VERT 8 LEV 3	P	5 XBR SW 0 VERT 8 LEV 3	U				T03
		R-W 4 XBR SW 3 VERT 9 LEV 3	G	4 XBR SW I VERT 8 LEV 3	P	4 XBR SW 0 VERT 8 LEV 3	U				R03
		BK 2 XBR SW 3 VERT 9 LEV 4	H	2 XBR SW I VERT 8 LEV 4	Q	2 XBR SW 0 VERT 8 LEV 4	V				T14
		BK-W 1 XBR SW 3 VERT 9 LEV 4	H	1 XBR SW I VERT 8 LEV 4	Q	1 XBR SW 0 VERT 8 LEV 4	V				R14
		R-G 0 XBR SW 3 VERT 9 LEV 4 T (LINK 14) KEY	H AB	0 XBR SW I VERT 8 LEV 4	Q	0 XBR SW 0 VERT 8 LEV 4	V		19 LTCB 10M TRLA	N Q	S14
		R-S 3 XBR SW 3 VERT 9 LEV 4 T (LINK 04) KEY	H AB	3 XBR SW I VERT 8 LEV 4	Q	3 XBR SW 0 VERT 8 LEV 4	V		11 LTCB 10B TRLA	N Q	S04
		R-BL-W 5 XBR SW 3 VERT 9 LEV 4	H	5 XBR SW I VERT 8 LEV 4	Q	5 XBR SW 0 VERT 8 LEV 4	V		(9) (22) SEE NOTE 1		T04
		R-O-W 4 XBR SW 3 VERT 9 LEV 4	H	4 XBR SW I VERT 8 LEV 4	Q	4 XBR SW 0 VERT 8 LEV 4	V				R04
R-G-W 9		9		9		1M TK9 9	Z		12 RCA0 9	H	A(SD9)
R-BR-W 11		11		11		2M TK9 11	Z		11 RCA0 11	H	A(SD8)

PART OF CAD 1
INTERSLIDE LEADS FOR 756A PBX

SHEET NOTES:
1. OPTIONS 9 AND 22 ARE SHOWN ON SD-65741-01.

DRAWING ISSUE	
1	J.C. M.R. T.V.G. W.S.
16B	JH POB
18B	EG SJF PD
38D	LJR PJS RHP HW
41D	WGN RHP

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PBX CABLING DIAGRAM

BELL TELEPHONE LABORATORIES INCORPORATED

SIZE 6S

SD-65746-01-G22

TCI Library: www.telephonecollectors.info

	SLIDE 1 PLUG R PIN NO.	PLT	SLIDE 2	SLIDE 3	SLIDE 4	SLIDE 5	SLIDE 6 PLUG R PIN NO.	PLT	LEAD DESIG
A	BL — U 0 TOAL	AA					4 0 TOLB	J	TOAL
	BL-W — 3 12 MAL	AB					4 12 TS	R	AT
B	1						SEE SHEET 24 1		
	10						SEE SHEET 24 10		
	G — R 2 (TS)LMP	AB					10 2 TS	R	TS
C	G-W — U 13 UAL2	AA					8 13 JTBA	X	UAL2
	BR 3						3	R	SPARE
D	BR-W — U 14 JRAL	AA					11 14 JREA	Y	JRAL
	4						SEE SHEET 24 4		
	15						SEE SHEET 24 15		
E	R — U 5 TAAL	AA					2 5 TRA	K	TAAL
	R-W — U 16 LALI	AA					6 16 CONAA	T	LALI
F	BK — ZD SEE NOTE 1; ZE 6 MULT TO PLUG D PIN 6 PUI RING. INT 13 17 UNIT TS C JI CONN						1M 6 ON	E	PUI
	BK-W — ZE 17 MULT TO PLUG D PIN 15 TMI RING. INT 7 15 UNIT TS C JI CONN						3M 17 PU	E	TMI
	R-G — 4B 7 TAAL	AA					3B 7 RLSA	K	TOKAU
	R-S — SEE NOTE 2								
G	9 18 TAAL	AA					10B 18 RLSB	J	TOKAL
	R-BL-W — ZE MULT TO PLUG D PIN 4; ZD SEE NOTE 1 8 TMO RING. INT 4 14 UNIT TS C JI CONN						3M 8 PU; Y CONN AY6 PIN 5 SEE NOTE 3	B	TMO TM
	R-O-W — ZE MULT TO PLUG D PIN 19 PUO RING. INT 19 16 16 UNIT TS C JI CONN						1M 19 ON	B	PUO
H	R-G-W — 5 9 TAAL	AA					1B 9 RLSB	J	TOKBU
	R-BR-W — SEE NOTE 2								
	7 11 TAAL	AA					12B 11 RLSA	K	TOKBL

PART OF CAD 1

INTERSLIDE LEADS FOR 756A PBX

SHEET NOTES:

(MD) 1. WHEN J86464A POWER SUPPLY IS PROVIDED.

2. WHEN J86464L POWER SUPPLY IS PROVIDED.

3. STRAPPED IN CROWN. SEE SD-66920-01, CAD 2.

DRAWING ISSUE		
1	J.C. M.R.	W.G.
38	R.A.L. F.E.B.	M.S.
17D	M.R. R.S. F.D.	
21D	GAP JFF KFJ	HV
23B	WAM SAK KFJ	
38D	JJR PJS RHP	HW
41D	MGN RHP	

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PBX CABLING DIAGRAM (2) SD-65746-01-G23

BELL TELEPHONE LABORATORIES INCORPORATED — DWG SIZE 6S — PRINTED IN U. S. A.

SD-65746-01-G23

TCI Library www.telephonecollectors.info

SLIDE 1	SLIDE 2 PLUG R PIN NO.	PLT	SLIDE 3 PLUG R PIN NO.	PLT	SLIDE 4 PLUG R PIN NO.	PLT	SLIDE 5	SLIDE 6 PIN NO.	PLT	LEAD DESIG
	BL									
	0 2 XBR SW 3 VERT 9 LEV 8	K	0 2 XBR SW 1 VERT 8 LEV 8	S	0 2 XBR SW 0 VERT 8 LEV 8	X				T18
	P BL-W									
	12 1 XBR SW 3 VERT 9 LEV 8	K	12 1 XBR SW 1 VERT 8 LEV 8	S	12 1 XBR SW 0 VERT 8 LEV 8	X		PLUG R		R18
	(ZB) (ZC) 0									
	1 0 XBR SW 3 VERT 9 LEV 8	K	1 0 XBR SW 1 VERT 8 LEV 8	S	1 0 XBR SW 0 VERT 8 LEV 8	X		1 23 LTCB	N	S18
	T (LINK 18) KEY AB O-W							1 10M TRLB	Q	
	10 3 XBR SW 3 VERT 9 LEV 8	K	10 3 XBR SW 1 VERT 8 LEV 8	S	10 3 XBR SW 0 VERT 8 LEV 8	X		10 15 LTCB	N	S08
	T (LINK 08) KEY AB G							10 10B TRLB	Q	
	P 2 5 XBR SW 3 VERT 9 LEV 8	K	2 5 XBR SW 1 VERT 8 LEV 8	S	2 5 XBR SW 0 VERT 8 LEV 8	X				T08
	P G-W									
	13 4 XBR SW 3 VERT 9 LEV 8	K	13 4 XBR SW 1 VERT 8 LEV 8	S	13 4 XBR SW 0 VERT 8 LEV 8	X				R08
	BR									
	3 2 XBR SW 3 VERT 9 LEV 9	K	3 2 XBR SW 1 VERT 8 LEV 9	S	3 2 XBR SW 0 VERT 8 LEV 9	X				T19
	P BR-W									
	14 1 XBR SW 3 VERT 9 LEV 9	K	14 1 XBR SW 1 VERT 8 LEV 9	S	14 1 XBR SW 0 VERT 8 LEV 9	X				R19
	S									
	4 0 XBR SW 3 VERT 9 LEV 9	K	4 0 XBR SW 1 VERT 8 LEV 9	S	4 0 XBR SW 0 VERT 8 LEV 9	X		4 24 LTCB	N	S19
	T (LINK 19) KEY AB S-W							4 9M TRLB	Q	
	15 3 XBR SW 3 VERT 9 LEV 9	K	15 3 XBR SW 1 VERT 8 LEV 9	S	15 3 XBR SW 0 VERT 8 LEV 9	X		15 16 LTCB	N	S09
	T (LINK 09) KEY AB R							15 9B TRLB	Q	
	P 5 5 XBR SW 3 VERT 9 LEV 9	K	5 5 XBR SW 1 VERT 8 LEV 9	S	5 5 XBR SW 0 VERT 8 LEV 9	X		(9) (22) SEE NOTE 1		T09
	P R-W									
	16 (ZB) 4 XBR SW 3 VERT 9 LEV 9	K	16 4 XBR SW 1 VERT 8 LEV 9	S	16 4 XBR SW 0 VERT 8 LEV 9	X				R09
	6 S (DLTR0) KEY	AB	6		6 CONN AW PIN 0					MBTE
	17 (DLTR0) LP	AB	17		17 CONN AW PIN 1					HME
	7 S (DLTR1) KEY	AB	7		7 CONN AW PIN 2					MBTO
	18 (DLTR1) LP	AB	18		18 CONN AW PIN 3					HMO
	8		8		8 SEE NOTE 2					
	19		19		19			PLUG P		
	9 5M TKB8	L	9		9 9M TKB9	Z		2 5 TT	E	TT1
	11 (WF) 5 TKB8	L	11		11 9 TKB9	Z		3 6M HMTAA (WF)	T	TK98

PART OF CAD 1

INTERSLIDE LEADS FOR 756A PBX

DRAWING ISSUE		
1	J.C. M.R.	W.S.
3B	A.K. F.G.S.	W.S.
3D	AMC PJS RHP	
66A	JJR PJS RHP	HW
41D	WGN GG RHP	HW

SHEET NOTE:

1. OPTIONS WF, 9, AND 22 ARE SHOWN ON SD-65741-01.
2. STRAPPED IN CROWN, SEE SD-66920-01 CAD 5.

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PBX CABLING DIAGRAM (2) | SD-65746-01-G24

BELL TELEPHONE LABORATORIES INCORPORATED | DWG SIZE 6S | PRINTED IN U. S. A.

TCI Library | www.telephonecollectors.info

SLIDE 1	SLIDE 2 PLUG P PIN NO.	PLT	SLIDE 3 PLUG P PIN NO.	PLT	SLIDE 4 PLUG P PIN NO.	PLT	SLIDE 5	SLIDE 6 PLUG P PIN NO.	PLT	LEAD DESIG
	BL									
	2 XBR SW3 VERT 9 LEV 5	H	2 XBR SW1 VERT 8 LEV 5	Q	2 XBR SW0 VERT 8 LEV 5	V		SEE SHEET 17		T15
	BL-W									
	1 XBR SW3 VERT 9 LEV 5	H	1 XBR SW1 VERT 8 LEV 5	Q	1 XBR SW0 VERT 8 LEV 5	V		SEE SHEET 17		R15
	(ZB) (ZC) 0 XBR SW3 VERT 9 LEV 5	H	0 XBR SW1 VERT 8 LEV 5	Q	0 XBR SW0 VERT 8 LEV 5	V		SEE NOTE 1 (9) (22) 20 LTCB	N	S15
	O-W T (LINK 15) KEY	AB						9M TRLA	Q	
	3 XBR SW3 VERT 9 LEV 5	H	3 XBR SW1 VERT 8 LEV 5	Q	3 XBR SW0 VERT 8 LEV 5	V		12 LTCB	N	S05
	G T (LINK 05) KEY	AB						9B TRLA	Q	
	5 XBR SW3 VERT 9 LEV 5	H	5 XBR SW1 VERT 8 LEV 5	Q	5 XBR SW0 VERT 8 LEV 5	V		SEE SHEET G24		T05
	G-W									
	4 XBR SW3 VERT 9 LEV 5	H	4 XBR SW1 VERT 8 LEV 5	Q	4 XBR SW0 VERT 8 LEV 5	V		SEE SHEET 17		R05
	BR									
	2 XBR SW3 VERT 9 LEV 6	J	2 XBR SW1 VERT 8 LEV 6	R	2 XBR SW0 VERT 8 LEV 6	W		SEE SHEET G24		T16
	BR-W									
	1 XBR SW3 VERT 9 LEV 6	J	1 XBR SW1 VERT 8 LEV 6	R	1 XBR SW0 VERT 8 LEV 6	W		SEE SHEET 44		R16
	S							SEE NOTE 1 (9) (22)		
	0 XBR SW3 VERT 9 LEV 6	J	0 XBR SW1 VERT 8 LEV 6	R	0 XBR SW0 VERT 8 LEV 6	W		21 LTCB	N	S16
	S-W T (LINK 16) KEY	AB						12M TRLB	Q	
	3 XBR SW3 VERT 9 LEV 6	J	3 XBR SW1 VERT 8 LEV 6	R	3 XBR SW0 VERT 8 LEV 6	W		13 LTCB	N	S06
	R T (LINK 06) KEY	AB						12B TRLB	Q	
	5 XBR SW3 VERT 9 LEV 6	J	5 XBR SW1 VERT 8 LEV 6	R	5 XBR SW0 VERT 8 LEV 6	W				T06
	R-W									
	4 XBR SW3 VERT 9 LEV 6	J	4 XBR SW1 VERT 8 LEV 6	R	4 XBR SW0 VERT 8 LEV 6	W		SEE SHEET 80		R06
	BK									
	2 XBR SW3 VERT 9 LEV 7	J	2 XBR SW1 VERT 8 LEV 7	R	2 XBR SW0 VERT 8 LEV 7	W				T17
	BK-W									
	1 XBR SW3 VERT 9 LEV 7	J	1 XBR SW1 VERT 8 LEV 7	R	1 XBR SW0 VERT 8 LEV 7	W				R17
	R-G							SEE NOTE 1 (9) (22)		
	0 XBR SW3 VERT 9 LEV 7	J	0 XBR SW1 VERT 8 LEV 7	R	0 XBR SW0 VERT 8 LEV 7	W		22 LTCB	N	S17
	R-S T (LINK 17) KEY	AB						11M TRLB	Q	
	3 XBR SW3 VERT 9 LEV 7	J	3 XBR SW1 VERT 8 LEV 7	R	3 XBR SW0 VERT 8 LEV 7	W		14 LTCB	N	S07
	R-BL-W T (LINK 07) KEY	AB						11B TRLB	Q	
	5 XBR SW3 VERT 9 LEV 7	J	5 XBR SW1 VERT 8 LEV 7	R	5 XBR SW0 VERT 8 LEV 7	W				T07
	R-O-W									
	4 XBR SW3 VERT 9 LEV 7	J	4 XBR SW1 VERT 8 LEV 7	R	4 XBR SW0 VERT 8 LEV 7	W		SEE SHEET 80		R07
					BK-G		(YO)			
					3M TK9	Z		10 RCAO	H	SD7
					BK-O		(YP)			
					4M TK9	Z		9 RCAO	H	SD6

PART OF CAD 1

INTERSLIDE LEADS FOR 756A PBX

SHEET NOTES:
1. OPTIONS 9 AND 22 ARE SHOWN ON SD-65741-01.

DRAWING ISSUE	
1	J.C. M.R. TVG
16B	JH POB
18B	EG SJF PD
20B	JJG WW PD
32D	PJS RHP PMC
36D	PMC PJS RHP
38D	JJR PJS RHP
41D	WGN RHP

41

PBX CABLING DIAGRAM (2)

BELL TELEPHONE LABORATORIES INCORPORATED — DWG SIZE 6S — PRINTED IN U. S. A.

SD-65746-01-G25

SD-65746-01-G25

TCI Library www.telephonecollectors.info

SLIDE 1	SLIDE 2 PLUG W PIN NO.	PLT	SLIDE 3 PLUG T PIN NO.	PLT	SLIDE 4 PLUG W PIN NO.	PLT	SLIDE 5	SLIDE 6	LEAD DESIG
	SEE NOTE 2		SEE NOTE 2		SEE NOTE 2				
	WIBL BL T 0 80 — TO STA 20 OR TT 80 DIST PBX	N	VIBL BL 3 0 — TO STA 40 LHM	A	WIBL BL 3 0 — TO STA 60 LHM	A			T
	BLIW BL-W R 12 80 — TO STA 20 OR TT 80 DIST PBX	N	BLIV BL-W 1 12 — TO STA 40 LHM	A	BLIW BL-W 1 12 — TO STA 60 LHM	A			R
	WIO O T 1 81 — TO STA 21 OR TT 81 DIST PBX	N	VIO O 3 1 — TO STA 41 LHM	A	WIO O 3 1 — TO STA 61 LHM	A			T
	OIW O-W R 10 81 — TO STA 21 OR TT 81 DIST PBX	N	OIV O-W 1 10 — TO STA 41 LHM	A	OIW O-W 1 10 — TO STA 61 LHM	A			R
	WIG G T 2 82 — TO STA 22 OR TT 82 DIST PBX	N	VIG G 3 2 — TO STA 42 LHM	A	WIG G 3 2 — TO STA 62 LHM	A			T
	GIW G-W R 13 82 — TO STA 22 OR TT 82 DIST PBX	N	GIV G-W 1 13 — TO STA 42 LHM	A	GIW G-W 1 13 — TO STA 62 LHM	A			R
	WIBR T 3 83 — TO STA 23 OR TT 83 DIST PBX	N	VIBR BR 3 3 — TO STA 43 LHM	A	WIBR BR 3 3 — TO STA 63 LHM	A			T
	BRIW BR-W R 14 83 — TO STA 23 OR TT 83 DIST PBX	N	BRIV BR-W 1 14 — TO STA 43 LHM	A	BRIW BR-W 1 14 — TO STA 63 LHM	A			R
	WIS S T 4 84 — TO STA 24 OR TT 84 DIST PBX	N	VIS S 3 4 — TO STA 44 LHM	A	WIS S 3 4 — TO STA 64 LHM	A			T
	SIW S-W R 15 84 — TO STA 24 OR TT 84 DIST PBX	N	SIV S-W 1 15 — TO STA 44 LHM	A	SIW S-W 1 15 — TO STA 64 LHM	A			R
	RIBL R T 5 85 — TO STA 25 OR TT 85 DIST PBX	P	WIBL R 3 5 — TO STA 45 LHM	A	RIBL R 3 5 — TO STA 65 LHM	A			T
	BLIR R-W R 16 85 — TO STA 25 OR TT 85 DIST PBX	P	BLIW R-W 1 16 — TO STA 45 LHM	A	BLIR R-W 1 16 — TO STA 65 LHM	A			R
	RIO BK T 6 86 — TO STA 26 OR TT 86 DIST PBX	P	WIO BK 3 6 — TO STA 46 LHM	A	RIO BK 3 6 — TO STA 66 LHM	A			T
	OIR BK-W R 17 86 — TO STA 26 OR TT 86 DIST PBX	P	OIW BK-W 1 17 — TO STA 46 LHM	A	OIR BK-W 1 17 — TO STA 66 LHM	A			R
	RIG R-G T 7 87 — TO STA 27 OR TT 87 DIST PBX	P	WIG R-G 3 7 — TO STA 47 LHM	A	RIG R-G 3 7 — TO STA 67 LHM	A			T
	GIR R-S R 18 87 — TO STA 27 OR TT 87 DIST PBX	P	GIW R-S 1 18 — TO STA 47 LHM	A	GIR R-S 1 18 — TO STA 67 LHM	A			R
	RIBR R-BL-W T 8 88 — TO STA 28 OR TT 88 DIST PBX	P	WIBR R-BL-W 3 8 — TO STA 48 LHM	A	RIBR R-BL-W 3 8 — TO STA 68 LHM	A			T
	BRIR R-O-W R 19 88 — TO STA 28 OR TT 88 DIST PBX	P	BRIW R-O-W 1 19 — TO STA 48 LHM	A	BRIR R-O-W 1 19 — TO STA 68 LHM	A			R
	RIS R-G-W T 9 89 — TO STA 29 OR TT 89 DIST PBX	P	WIS R-G-W 3 9 — TO STA 49 LHM	A	RIS R-G-W 3 9 — TO STA 69 LHM	A			T
	SIR R-BR-W R 11 89 — TO STA 29 OR TT 89 DIST PBX	P	SIW R-BR-W 1 11 — TO STA 49 LHM	A	SIR R-BR-W 1 11 — TO STA 69 LHM	A			R
	TIE TRK ADPT TS(8)		(S)		(S,V)				

(B) PART OF CAD IA (MFR DISC)

HOUSE & FEEDER CABLE LEADS FROM MODULE 1 (SLIDES 2 AND 3) AND MODULE 2 SLIDE 4 (SEE NOTE 1, 4 & 4 AND 308)

DRAWING ISSUE

1	J.C. M.R. W.
38	K.A.L. F.G.S. WS
5D	V.S. M.S. W.
8D	L.F.T. W.V.H. FEG
16B	TVG JH POB
21D	GAP JFF K.F.S. HW
24D	EWE SAK GFH
26D	DWM SAK GFH
28D	GFH
31D	CEC SAK GFH

SHEET NOTES:

1. LINES ARE ASSIGNED TO CABLE PAIRS AS FOLLOWS:

CABLE PAIRS	STA LINES	MODULE HOUSE & FEEDER CABLE
1-10 (BL BINDER)	20-29	1
21-25 (BL BINDER)	40-49	1
26-30 (OR BINDER)	40-49	1
1-10 (BL BINDER)	60-69	2

2. "T" AND "R" LEADS MULT TO CAD 14 WHEN 556A MANUAL SWBD IS PROVIDED FOR ATTENDANT.

3. OPTIONS S & V ARE SHOWN ON SD-65741-01.

4. WHEN PREWIRED CABLE TERMINAL SECTION (J58829AM) IS PROVIDED, HOUSE & FEEDER CABLE LEADS ARE SHOWN ON CAD 32 (MODULE 1) AND CAD 33 (MODULE 2).

5. "T" AND "R" LEADS MULT TO CAD 37 WHEN 608A CORD SWBD IS PROVIDED.

6. REPLACED BY SHEET G 105.

PBX SYSTEMS
NO. 756A
PBX CABLING DIAGRAM (2)

BELL TELEPHONE LABORATORIES INCORPORATED

DWG SIZE 6S

SD-65746-01-G26 (1)

PRINTED IN U.S.A.

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SLIDE 1	SLIDE 2 PLUG Y PIN NO. PLT	SLIDE 3 PLUG U PIN NO. PLT	SLIDE 4 PLUG Y PIN NO. PLT	SLIDE 5	SLIDE 6	LEAD DESIG
	SEE NOTE 2	SEE NOTE 2	SEE NOTE 2			
A	BKIBL TO STA 30 L P BL (R) 1 AT 0	RIBL TO STA 50 F P BL 3 LHM 0	BKIBL TO STA 70 F P BL 3 LHM 0			T
	BLIBK TO STA 30 L P BL-W 2 AT 12	BLIR TO STA 50 F P BL-W 1 LHM 12	BLIBK TO STA 70 F P BL-W 1 LHM 12			R
	BKIO TO STA 31 L P 0 4 AT 1	RIO TO STA 51 F P 0 3 LHM 1	BKIO TO STA 71 F P 0 3 LHM 1			T
B	OIBK TO STA 31 L P O-W 5 AT 10	OIR TO STA 51 F P O-W 1 LHM 10	OIBK TO STA 71 F P O-W 1 LHM 10			R
	BKIG TO STA 32 L P G 7 AT 2	RIG TO STA 52 F P G 3 LHM 2	BKIG TO STA 72 F P G 3 LHM 2			T
	GIBK TO STA 32 L P G-W 8 AT 13	GIR TO STA 52 F P G-W 1 LHM 13	GIBK TO STA 72 F P G-W 1 LHM 13			R
C	BKIBR TO STA 33 L P BR 10 AT SEE NOTE 3 3 3 LHM F	RIBR TO STA 53 F P BR 3 LHM 3	BKIBR TO STA 73 F P BR 3 LHM 3			T
	BRIBK TO STA 33 L P BR-W 11 AT SEE NOTE 3 14 1 LHM F	BRIR TO STA 53 F P BR-W 1 LHM 14	BRIBK TO STA 73 F P BR-W 1 LHM 14			R
D	BKIS TO STA 34 F P S 3 LHM 4	RIS TO STA 54 F P S 3 LHM 4	BKIS TO STA 74 F P S 3 LHM 4			T
	SIBK TO STA 34 F P S-W 1 LHM 15	SIR TO STA 54 F P S-W 1 LHM 15	SIBK TO STA 74 F P S-W 1 LHM 15			R
	YIBL TO STA 35 F P R 3 LHM 5	BKIBL TO STA 55 F P R 3 LHM 5	YIBL TO STA 75 F P R 3 LHM 5			T
E	BLIY TO STA 35 F P R-W 1 LHM 16	BLIBR TO STA 55 F P R-W 1 LHM 16	BLIY TO STA 75 F P R-W 1 LHM 16			R
	YIO TO STA 36 F P BK 3 LHM 6	BKIO TO STA 56 F P BK 3 LHM 6	YIO TO STA 76 F P BK 3 LHM 6			T
	OIY TO STA 36 F P BK-W 1 LHM 17	OIBK TO STA 56 F P BK-W 1 LHM 17	OIY TO STA 76 F P BK-W 1 LHM 17			R
F	YIG TO STA 37 F P R-G 3 LHM 7	BKIG TO STA 57 F P R-G 3 LHM 7	YIG TO STA 77 F P R-G 3 LHM 7			T
	GIY TO STA 37 F P R-S 1 LHM 18	GIBK TO STA 57 F P R-S 1 LHM 18	GIY TO STA 77 F P R-S 1 LHM 18			R
	YIBR TO STA 38 F P R-BL-W 3 LHM 8	BKIBR TO STA 58 F P R-BL-W 3 LHM 8	YIBR TO STA 78 F P R-BL-W 3 LHM 8			T
G	BRIY TO STA 38 F P R-O-W 1 LHM 19	BRIBK TO STA 58 F P R-O-W 1 LHM 19	BRIY TO STA 78 F P R-O-W 1 LHM 19			R
	YIS TO STA 39 F P R-G-W 3 LHM 9	BKIS TO STA 59 F P R-G-W 3 LHM 9	YIS TO STA 79 F P R-G-W 3 LHM 9			T
H	SIY TO STA 39 F P R-BR-W 1 LHM 11 (S)	SIBK TO STA 59 F P R-BR-W 1 LHM 11 (S)	SIY TO STA 79 F P R-BR-W 1 LHM 11 (S,V)			R

(B) PART OF CAD 1A(MFR DISC)

HOUSE & FEEDER CABLE LEADS FROM MODULE 1 (SLIDES 2 & 3) AND MODULE 2 (SLIDE 4) (SEE NOTE 1, 4 AND 6.)

SHEET NOTES:

1. LINES ARE ASSIGNED TO CABLE PAIRS AS FOLLOWS:

CABLE PAIRS	STA LINES	MODULE HOUSE & FEEDER CABLE
11-20 (BL BINDER)	30-39	1
31-40 (OR BINDER)	50-59	1
11-20 (BL BINDER)	70-79	2

2. "T" AND "R" LEADS MULT TO CAD 14 WHEN 556A MANUAL SWBD IS PROVIDED FOR ATTENDANT.
3. OPTION S TO (AT)REL IS SHOWN ON SD-65743-01 AND S OPTION TO LHM IS SHOWN ON SD-65741-01. OPTIONS R AND V ARE ALSO SHOWN ON SD-65741-01.
4. WHEN PREWIRED CABLE TERMINAL SECTION (J58829AM) IS PROVIDED, HOUSE & FEEDER CABLE LEADS ARE SHOWN ON CAD 32 (MODULE 1) AND CAD 33 (MODULE 2).
5. "T" AND "R" LEADS MULT TO CAD 37 WHEN 608A CORD SWBD IS PROVIDED.
6. REPLACED BY SHEET G106

DRAWING ISSUE	
2B	BLY A.B.S. R.A.L. EGS W.S.
3B	EGS W.S.
5D	VP M.S. WFC
8B	V.M.Z. WFC
16B	TVG JH POB
21D	GAP JFF KFJ
23B	WRM SAK KFJ
24D	SAK GFH
26D	DWY SAK GFH
28D	GFH
31D	CED SAK GFH

PBX SYSTEMS
NO. 756A
PBX CABLING DIAGRAM (2)

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DWG SIZE 6S

SD-65746-01-G27

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SLIDE 1 PLUG P PIN NO. / PLT	SLIDE 2	SLIDE 3	SLIDE 4	SLIDE 5	SLIDE 6	LEAD DESIG
(ZD) SEE NOTE 5 — YIBL — BL — 0 — SEE NOTE 6 MULT TO PLUGS D PIN D & U PIN 14 TO 556A SWBD						* RG
MISC PCHG 20 — 20 — OTS ON RING. INT. C — 9 — J1 CONN						* RG
BLIY — BL-W — 12 — TO 556A SWBD — MISC PCHG 18 — 1 — OTS ON RING. INT. C — 6 — J1 CONN						* CR
(ZE) YIO — 0 — (IL) EXT — 11 — CONN H — MULT TO PLUGS F A PIN 7 & S PIN 10 SEE NOTE 4						* CR
						A
OIY — O-W — 10 — MI TO CAD 14, 37 OR 43 MULT. PLUG W PIN 10						MI
YIG — G — 2 — WCT — TO CO — TR — X						WCT
GIY — G-W — 13 — WCR — TO CO — TR — X						WCR
YIBR — 3 — SPARE						SPARE
BRIY — BR-W — 14 — M2 TO CAD 14, 37 OR 43 MULT. PLUG W PIN 14						M2
YIS — 4 — S — T — (C) RES — SEE NOTE 2 — TO ATT POS OR CORD SWBD X						TRLA
SIY — S-W — 15 — M3 TO CAD 14, 37 OR 43 MULT. PLUG W PIN 15						M3
VIBL — 5 — B — (C) RES — SEE NOTE 2 — TO ATT POS OR CORD SWBD X						TRLB
BLIV — 16 — SPARE						SPARE
VIO — BK — 6 — API — TO AP GRD ON FP — TO ATT POS 1, CAD 14, 37 OR 43 X						API
OIV — BK-W — 17 — AP2 — TO AP GRD ON FP — TO ATT POS 1 OR CAD 14 X						AP2
VIG — R-G — 7 — AP3 — TO AP GRD STRIP ON FP — TO ATT POS 2 OR CAD 14 X						AP3
GIV — R-S — 18 — AP4 — TO AP GRD STRIP ON FP — TO ATT POS 2 OR CAD 14 X						AP4
VIBR — R-BL-W — 8 — AP5 — TO AP GRD STRIP ON FP — TO KEY TEL UNIT OR CAD 14 X						SEE NOTE 1
BRIV — R-O-W — 19 — AP6 — TO AP GRD STRIP ON FP — TO KEY TEL UNIT OR CAD 14 X						AP5
VIS — R-G-W — 9 — AP7 — TO AP GRD STRIP — TO 556A SWBD X						AP6
SIV — R-BR-W — 11 — AP8 — TO AP GRD STRIP — TO 556A SWBD X						AP7
						AP8

PART OF CAD IA

HOUSE & FEEDER CABLE LEADS FROM MODULE 1
(CABLE PAIRS 41-50)
(SEE NOTE 3)

SHEET NOTES:

1. STRAP API – AP8 GROUNDS TOGETHER AT THE CROSS CONNECTING TERMINAL AND RUN A WIRE (18 GA MIN) TO THE BUILDING GROUND.
2. REFER TO ALARM, TRANSFER & TEST CKT SD-65743-01 FOR CONNECTING TRLA & TRLB LEADS.
3. WHEN PREWIRED CABLE TERMINAL SECTION (J58829AM) IS PROVIDED, HOUSE & FEEDER CABLE LEADS FROM MODULE 1 ARE SHOWN ON CAD 32.
4. A LEAD TO 608A OR 608D MISC CKT.

(MD) 5. WHEN J-86464A POWER SUPPLY IS PROVIDED.

6. WHEN J-86464L POWER SUPPLY IS PROVIDED.
7. * DENOTES RINGING LEADS.

DRAWING ISSUE

1	J.G. M.B.	WS
3B	K.H. F.G.S.	WS
5D	V.P. M.S.	WFO
6D	J.B. DAT	TEG
9D	L.K.R. WWW	TEG
21D	SAP JFF KFJ	
23B	WAW SAK KFJ	HO
24D	- SAK GFH	HW
26D	DWY SAK GFH	
28D	SAK ORL	
32D	BCM PJS RHP	
38D	JJR PJS RHP	HW
42B	EMM PJS LDJ	

PBX CABLING DIAGRAM (2)

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SD-65746-01-G28(4)

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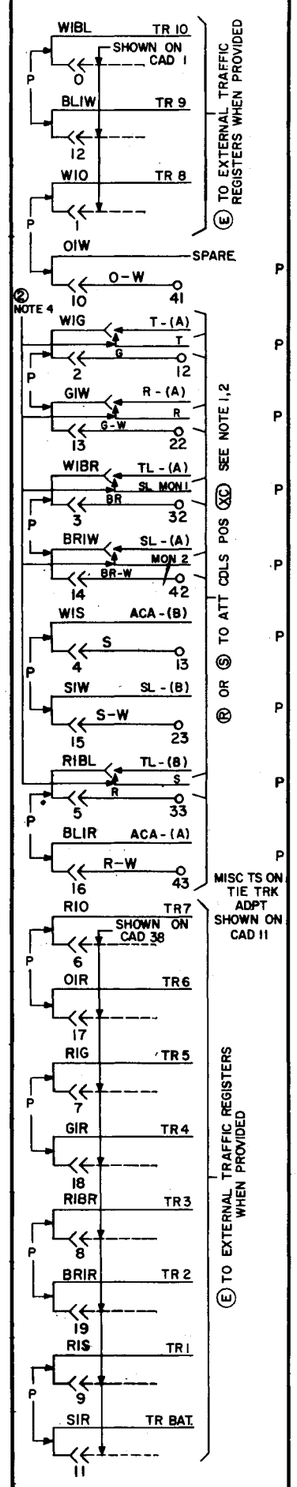
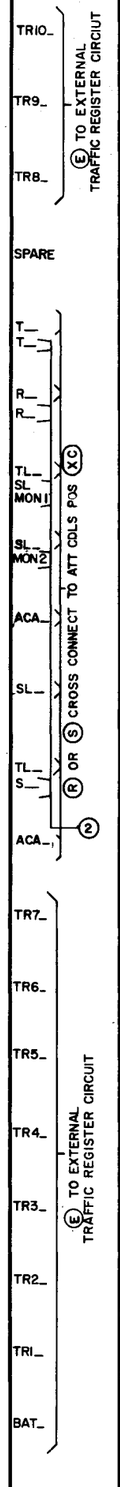
SLIDE 1 | SLIDE 2 | SLIDE 3 | SLIDE 4 | SLIDE 5 | SLIDE 6 | LEAD DESIG

PLUG T PIN NO. PLT





PART OF CAD 1A (MFR DISC)

HOUSE & FEEDER CABLE LEADS FROM MODULE 1
(CABLE PAIRS 51-60, GR BINDER)
(SEE NOTE 3)
(SEE SHEET 110)

DRAWING ISSUE

1	JJC MJK	W.S.
3B	KAS FGS	W.S.
21D	RVP JFF KFJ	
24D	- SAK GFH	HW
26D	RKU SAK GFH	
27D	RKU SAK GFH	
29D	EWE PJS GFH	
34D	BCM - RHF	
36D	JJR PJS RHF	HW
42B	BMM PJS DM	

SHEET NOTES:

1. (A) DENOTES LOCKING TYPE KEY TERMINATION.
   (B) DENOTES NON-LOCKING TYPE KEY TERMINATION.
2. OPTION (XC) IS SHOWN ON SD-65741-01.
3. WHEN PREWIRED CABLE TERMINAL SECTION (J58829M1) IS PROVIDED, HOUSE & FEEDER CABLE LEADS FROM MODULE 1 ARE SHOWN ON CAD 32.
4. OPTION (2) IS SHOWN ON SD-66902-01.

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PBX CABLING DIAGRAM (2)

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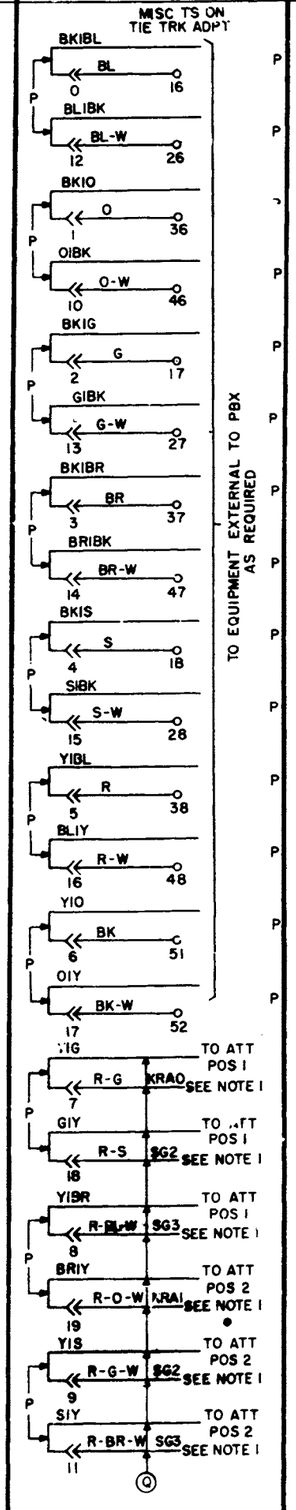
SLIDE 1	SLIDE 2	SLIDE 3	SLIDE 4	SLIDE 5	SLIDE 6	LEAD DESIG
	PLUG U PIN NO. PLT					



SPARE - ASSIGN AT TIME OF INSTALLATION IN ACCORDANCE WITH JOB REQUIREMENTS

KRAO

SG2

SG3

KRAI

SG2

SG3

PART OF CAD 1A

HOUSE B FEEDER CABLE LEADS FROM MODULE 1
(CABLE PAIRS 61-70, GR BINDER)
(SEE NOTE 3)

DRAWING ISSUE	
1	LJC WJS
3B	WJS KFS
8B	WJS WJS
10D	WJS LJC
21D	WJS JFB KFJ
24D	- SAM GFH

SHEET NOTES:

1. CONNECT TO LEAD OF SAME DESIGNATION ON PLUG (H) OF SLIDE 2. SEE SHEET G10.
2. OPTION Q IS SHOWN ON SD-65742-01
3. WHEN PREWIRED CABLE TERMINAL SECTION (J58829AM) IS PROVIDED, HOUSE & FEEDER CABLE LEADS FROM MODULE 1 ARE SHOWN ON CAD 32.

NO. 756A
PBX CABLING DIAGRAM

2

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SD-65746-01-G30

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SLIDE 1 | SLIDE 2 | SLIDE 3 | SLIDE 4 | SLIDE 5 | SLIDE 6 | LEAD DESIG

SLIDE 5

PLUG W PIN NO | PLT

VIBL — TO CAD 15 — Y
BL 8M OUT
0 8 HD
P
BLIV — TO CAD 15 — Y
BL-W 8 HD
12 8M OUT
VIO — TO ATT POS (1 ST) OR CAD 15 (TL1) RES — Y
0
1
OIV — TO ATT POS (1 ST) OR CAD 15 (SL1) RES — Y
O-W
10
VIG — TO ATT POS (2 ND) (TL2) RES — Y
G
2
GIV — TO ATT POS (2 ND) (SL2) RES — Y
G-W
13
VIBR — TO ATT POS — Y
BR 1U AC
3
BRIV — TO NIGHT ATT (SL3) RES — Y
BR-W
14
VIS — TO CAD 15 — Y
S 12M B
4
SIV — TO CAD 15 — Y
S-W 5 ON
15
WIBL — TO CAD 15 — Z
R 8M OUT
5 8 HD
P
BLIW — TO CAD 15 — Z
R-W 8 HD
16 8M OUT
WIO — TO ATT POS 1 OR CAD 15 (TL1) RES — Z
BK
6
OIW — TO ATT POS 1 OR CAD 15 (SL1) RES — Z
BK-W
17
WIG — TO ATT POS 2 (TL2) RES — Z
R-G
7
P
GIW — TO ATT POS 2 (SL2) RES — Z
R-S
18
WIBR — TO ATT POS 1 — Z
R-BL-W 1U AC
8
BRIW — TO NIGHT ATT (SL3) RES — Z
R-O-W
19
WIS — TO CAD 15 — Z
R-G-W 12M B
9
SIW — TO CAD 15 — Z
R-BR-W 5 ON
11

LEAD DESIG

T
R — CROSS CONNECT TO CORD SWBD (Z), T & R OR 608A OR D SWBD (A), T & R
TLI OR TL OR L
SLI OR BL — CROSS CONNECT TO ATT POS 1 (Y), TL & SL OR CORD SWBD (Z), TL & BL OR 608 A OR D SWBD (A), L & BL
TL2
ATT TRK 0
SL2 — CROSS CONNECT TO ATT POS 2, TL & SL
ACA — CROSS CONNECT TO ATT POS 1 (X) & ATT POS 2 (N), & KEY TEL SET (R), ACA OR KEY TEL SET (ZX), ACA
SL3 — CROSS CONNECT TO KEY TEL SET, SL3
ON OR SL
A OR NA — CROSS CONNECT TO CORD SWBD (Z), ON & A OR 608 A OR D SWBD (A), SL & NA

FOR ALL 3 TRUNKS

T
R
TLI OR TL OR L
SLI OR BL
TL2
ATT TRK 1
SL2
ACA
SL3
ON OR SL
A OR NA

PART OF CAD IA

HOUSE & FEEDER CABLE LEADS FROM MODULE 2
(CABLE PAIRS 21-25, BL BINDER AND 26-30, OR BINDER)
(SEE NOTE 2)

SHEET NOTES:
1. OPTIONS T & V ARE SHOWN ON SD-65753-01
2. WHEN PREWIRED CABLE TERMINAL SECTION (J58829AM) IS PROVIDED, HOUSE & FEEDER CABLE LEADS FROM MODULE 2 ARE SHOWN ON CAD 33.

DRAWING ISSUE

1	J.E. W.R. W.S.
3B	R.A.I. F.G.S. W.S.
9D	L.H.H. M.V.H. T.R.B. P.D.
10D	R.J.H. S.P. J.A.F. A.S. P.D.
13D	M.R.
17D	W.S. P.D.
21D	WPA JFF KFJ HW
24D	SAK GFH
26D	DWY SAK GFH
31D	CED SAK GFH
34D	PMC SAK RHP
42B	BMM PJS LDJ

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PBX CABLING DIAGRAM (2) — SD-65746-01-G31

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SD-65746-01-G31

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SLIDE 1 | SLIDE 2 | SLIDE 3 | SLIDE 4 | SLIDE 5 | SLIDE 6 | LEAD DESIG

PLUG U PIN NO — PLT

SEE NOTE 2

RIBL — TO CAD 15 AA
P 0 — BL 8M OUT; 8 HD

BLIR — TO CAD 15 AA
12 — BL-W 8 HD; 8M OUT

RIO — TO ATT POS (1ST) OR CAD 15 AA
1 — 0 (TLI) RES

OIR — TO ATT POS (1ST) OR CAD 15 AA
10 — O-W (SLI) RES

RIG — TO ATT POS (2ND) AA
2 — G (TL2) RES

GIR — TO ATT POS (2ND) AA
13 — G-W T (SL2) RES

RIBR — TO ATT POS (1ST) AA
3 — BR 1U AC

BRIR — TO NIGHT ATT AA
14 — BR-W (SL3) RES

RIS — TO CAD 15 AA
4 — S 12M B

SIR — TO CAD 15 AA
15 — S-W 5 ON

BKIBL — TO ATT POS V
P 5 — R 7 FB (V); SEE NOTE 3 (T) PLUG AS5 PIN 2

BLIBK — TO ATT POS V
16 — R-W 9 FB (V); SEE NOTE 3 (T) PLUG AS5 PIN 3

BKIO — TO ATT POS V
6 — BK 5 NT (V); SEE NOTE 3 (T) PLUG AS 5 PIN 5

OIBK — TO ATT POS V
17 — BK-W 1U NT

BKIG — TO ATT POS (1 ST) V
7 — R-G 1 (TBI) IND

GIBK — TO ATT POS (1ST) V
P 18 — R-S 4 (TBI) IND

BKIBR — TO ATT POS (2ND) J
8 — R-BL-W 1 (TB2) IND

BRIBK — TO ATT POS (2ND) J
P 19 — R-O-W 4 (TB2) IND

BKIS — TO ATT POS OR MAN SWBD J
9 — R-G-W (BZ) CAP.

SIBK — TO ATT POS OR "AP" GRD J
11 — R-BR-W 1U ATA; (S) 1U NS J; (R) SEE NOTE 1 J
SEE SHEET G15 — R-BR-W — PLUG K, PIN 19

LEAD DESIG: T, R, TL OR TLI OR L, SLI, TL2, ATT TRK2, SL2, ACA, SL3, ON OR SL, A OR NA, TT, TTI, TR, TRI, ACG, ACGI, NTG, ATI, POS CKT, BTI, AT2, BT2, BZ, TRANS NS

CROSS CONNECT
TO ATT POS I (X), (ZG) OR (ZH) TT & TR OR
TO KEY TEL SET (Q&S) TT & TR

CROSS CONNECT
TO CORD SWBD (M) ACG OR
TO ATT POS I (X) ACG OR
TO KEY TEL SET (R) ACG OR
TO KEY TEL SET (ZX) ACG

CROSS CONNECT TO ATT POS I (X) NTG,
ATT POS 2 (N) NTG AND KEY TEL
SET (F) NTG, WHEN FURNISHED.

CROSS CONNECT
TO ATT POS I, AT & BT

CROSS CONNECT
TO ATT POS 2, AT & BT

CROSS CONNECT
TO 556A CORD SWBD (M) BZ, ATT POS I (X) BZ AND
ATT POS 2 (N) BZ WHEN FURNISHED

CROSS CONNECT TO ONE ATT POS (X)
OR KEY TEL SET NIGHT KEY (E)

PART OF CAD IA

HOUSE & FEEDER CABLE LEADS FROM MODULE 2
(CABLE PAIRS 31-40, OR BINDER)
(SEE NOTE 4)

SHEET NOTES:

1. CONNECT NS LEAD TO AP GROUND WHEN NIGHT SERVICE TRANSFER KEY IS NOT REQUIRED.
2. OPTIONS R & S ARE SHOWN ON SD-65743-01. OPTIONS T & V ARE SHOWN ON SD-65753-01
3. STRAPPED IN CROWN. SEE SD-66920-01, CAD 4.
4. WHEN PREWIRED CABLE TERMINAL SECTION (J58829AM) IS PROVIDED, HOUSE & FEEDER CABLE LEADS FROM MODULE 2 ARE SHOWN ON CAD 33.

DRAWING ISSUE

1	JC MR	WS
3B	RAL FGS	WS
8B	LMR WVH	TEB
9D	LMR WVH	TEB
10D	GJH SP	PD
12D	JAF MS	PD
13D	JAF MS	PD
16B	TVG JH POE	NY
17D	MR MS PD	HO
18B	DN PD	HO
21D	WPS JFF KFJ	HW
22AC	WDM SAK KFJ	
24D	— SAK GFH	HW
26D	DWM SAK GFH	
31D	CED SAK GFH	HW
34D	BCM SAK RHP	
WORN DRAWING REPRODUCED WITHOUT CHANGE 12-28-66 JJR		
42B	BMW PJS LDJ	

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PBX CABLING DIAGRAM (2) — SD-65746-01-G32

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SLIDE 1	SLIDE 2	SLIDE 3	SLIDE 4	SLIDE 5	SLIDE 6	LEAD DESIG
				PLUG T PIN NO. PLT		
				YIBL — TO ATT POS — V BL — U H — 0 — (T) SEE NOTE 3 — PLUG AS 5 PIN 17		H (POS CKT)
				BLIY — TO ATT POS — J BL-W — U BZ — 12 — (ZA,B)		RC
				YIO — TO ATT POS 1 — J O — (ARB) RES — 1		ARB1
				OIY — TO ATT POS 2 — J O-W — (ARB) RES — 10		ARB2
				YIG — TO ATT LOCATION (RING.) T TRK PTCH 24 UNIT PG 3A TRK 3 — J G — 2		STT
				GIY — TO ATT LOCATION (RING.) R TRK PTCH 31 UNIT PG 3A TRK 3 — J G-W — 13		STR
				YIBR — TO ATT LOCATION (RING.) T TRK PTCH 24 UNIT PG 4A TRK 4 — J BR — 3		STT
				BRIY — TO ATT LOCATION (RING.) R TRK PTCH 31 UNIT PG 4A TRK 4 — J BR-W — 14		STR
				YIS — TO ATT LOCATION (RING.) T TRK PTCH 24 UNIT PG 8A TRK 8 — V S — 4		STT
				SIY — TO ATT LOCATION (RING.) R TRK PTCH 31 UNIT PG 8A TRK 8 — V S-W — 15		STR
				VIBL — TO ATT LOCATION (RING.) T TRK PTCH 24 UNIT PG 9A TRK 9 — V R — 5		STT
				BLIV — TO ATT LOCATION (RING.) R TRK PTCH 31 UNIT PG 9A TRK 9 — V R-W — 16		STR
				VIO — TO EXT MTD SIG EQPT PLUG AW 5 PIN 11 BK — 6		TCW1
				OIV — TO EXT MTD SIG EQPT PLUG AW 5 PIN 12 BK-W — 17		TCW2
				VIG — TO EXT MTD SIG EQPT PLUG AW 5 PIN 13 R-G — 7		TCW3
				GIV — TO EXT MTD SIG EQPT PLUG AW 5 PIN 14 R-S — 18		TCW4
				VIBR — TO ATT POS PLUG AS 5 PIN 16 (T) SEE NOTE 3 R-BL-W — 8		RA
				BRIV — TO ATT POS — J R-O-W 12M BZ1 — (ZE) SEE NOTE 4 — 19		BZ
				VIS — TO CAD 15 R-G-W — TRK PTCH 14 UNIT PG 9C — 9 (YE) SEE NOTE 6		NA
				SIV R-BR-W — 11		SPARE

RDT TRKS

PART OF CAD 1A

MODULE 2
HOUSE & FEEDER CABLE LEADS
(CABLE PAIRS 41-50, OR BINDER)
(SEE NOTE 5)

CROSS CONNECT TO 756A PBX OR PREC ATT POS, H

CROSS CONNECT TO KEY BUTTON TEL SET

CROSS CONNECT AT HOUSE BOX TO EXT MTD SIG EQPT

CROSS CONNECT AT HOUSE BOX TO SG1 LEAD OF TEL CONSOLE OR TO RA LEAD OF KEY BUTTON TEL SET

CROSS CONNECT TO KEY TEL SET (R) OR (ZX) BZ, WHEN FURNISHED

CROSS CONNECT TO 608A OR 608D SWBD WHEN FURNISHED

SHEET NOTES:

1. THE SPARE LEADS TO PLATE J SHALL BE LONG ENOUGH TO REACH THE FRONT END OF THE PLATE. THESE LEADS SHALL BE TIED ALONG THE VERTICAL RUN OF THE LOCAL CABLE.
2. ZA OPTION IS SHOWN ON SD-65751-01 AND B OPTION IS SHOWN ON SD-65757-01.
3. STRAPPED IN CROWN. SEE SD-66920-01, CAD 4.
4. ZE OPTION IS SHOWN ON SD-65757-01.
5. WHEN PREWIRED CABLE TERMINAL SECTION (J58829AM) IS PROVIDED, HOUSE & FEEDER CABLE LEADS FROM MODULE 2 ARE SHOWN ON CAD 33.
6. YE OPTION IS SHOWN ON SD-65752-01

DRAWING ISSUE		
1	UG, M.R	W.S.
3B	M.H, F.G.S	W.S
9D	JMR, WWM	F.G.S
13D	JMR, WWM	F.D.
16B	T.VG	JH
	POB	
21D	GAP	JFF
	KFJ	
22AC	WM	SAK
	KFJ	
23B	WM	SAK
	KFJ	
24D	-	SAK
	GFH	
31D	CED	SAK
	GFH	
34D	PMC	SAK
	RHP	

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PBX CABLING DIAGRAM (2) — SD-65746-01-G33

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SLIDE 1	SLIDE 2	SLIDE 3	SLIDE 4	SLIDE 5	SLIDE 6	LEAD DESIG	SLIDE 7	SLIDE 8	SLIDE 9

SLIDE 5

PLUG S PIN NO			PLT
WIBL	TO CO		
	BL 1	ATA	J
0			
BLIW	TO CO		
	BL-W 2	ATA	J
12			
WIO	TO ATT POS 1		
	O T	(T) RES	A
1			
OIW	TO ATT POS 1		
	O-W	(S) RES	A
10			
WIG	TO ATT POS 2		
	G	(T) RES	A
2			
GIW	TO ATT POS 2		
	G-W B	(S) RES	A
13			
WIBR	TO ATT POS		
	BR 6	ACA	A
3			
BRIW	TO KEY TEL SET		
	BR-W	(L) RES	A
14			
WIS	TO CO		
	S 3	ATA	J
4			
SIW	TO CO		
	S-W 4	ATA	J
15			
RIBL	TO ATT POS 1		
	R T		C
5			
BLIR	TO ATT POS 1		
	R-W	(S) RES	C
16			
RIO	TO ATT POS 2		
	BK	(T) RES	C
6			
OIR	TO ATT POS 2		
	BK-W	(S) RES	C
17			
RIG	TO ATT POS		
	R-G 6	ACA	C
7			
GIR	TO KEY TEL SET		
	R-S	(L) RES	C
18			
RIBR	TO CO		
	R-BL-W 5	ATA	J
8			
BRIR	TO CO		
	R-O-W 6	ATA	J
19			
RIS	TO ATT POS 1		
	R-G-W	(T) RES	E
9			
SIR	TO ATT POS 1		
	R-BR-W	(S) RES	E
11			

LEAD DESIG

CO TRK 0: T, R, TL 1, SL 1, TL 2, SL 2, ACA, L

CO TRK 1: T, R, TL 1, SL 1, TL 2, SL 2, ACA, L

CO TRK 2: T, R, TL 1, SL 1

PART OF CAD 1A

HOUSE & FEEDER CABLE LEADS FROM MODULE 2
(CABLE PAIRS 51-60, GR BINDER)
(SEE NOTE 1)

CROSS CONNECT TO CENTRAL OFFICE OR AUX LONG LINE CKT LEADS, T & R (SEE NOTE 2)

CROSS CONNECT TO ATT POS 1, TL & SL

CROSS CONNECT TO ATT POS 2, TL & SL

CROSS CONNECT TO ATT POS 1 & 2, ACA

CROSS CONNECT TO KEY TEL SET, L

SHEET NOTES:

1. WHEN PREWIRED CABLE TERMINAL SECTION (J58829AM) IS PROVIDED, HOUSE & FEEDER CABLE LEADS FROM MODULE 2 ARE SHOWN ON CAD 33.
2. T & R LEADS WHICH DO NOT GO TO ALARM, TRANSFER, AND TEST CIRCUIT MAY BE CONNECTED TO AUXILIARY LONG LINE CIRCUIT FOR "TOUCH-TONE" TO DIAL PULSE CONVERSION.

DRAWING ISSUE		
38	BAL FGS	GS
9D	LMA	TEG
12D	RG AS	FO
21D	GAP JPF XFJ	
24D	SAK GFH	
26D	SAK GFH	

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NO. 756A
PBX CABLING DIAGRAM (2)

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SLIDE 1	SLIDE 2	SLIDE 3	SLIDE 4	SLIDE 5	SLIDE 6	LEAD DESIG
				PLUG R PIN NO. — PLT		
				BKIBL — TO ATT POS 2 — BL — (T) RES — 0 — E		TL 2
				BLIBK — TO ATT POS 2 — BL-W — (S) RES — 12 — E		SL 2
				BKIO — TO ATT POS — 0 — 6 ACA — 1 — E		ACA
				OIBK — TO KEY TEL SET — O-W — (L) RES — 10 — 16 — E		L
				BKIG — TO CO — G — TRK PTCH 1 UNIT PG 3A — 2 — J		T
				P GIBK — TO CO — G-W — TRK PTCH 2 UNIT PG 3A — 13 — J		R
				BKIBR — TO ATT POS 1 — BR — TRK PTCH 12 UNIT PG 3B — 3 — J		TLI
				BRIBK — TO ATT POS 1 — BR-W — TRK PTCH 13 UNIT PG 3B — 14 — J		SLI
				BKIS — TO ATT POS 2 — S — TRK PTCH UNIT PG 3B — 4 — 14 — J		TL2
				SIBK — TO ATT POS 2 — S-W — L — TRK PTCH 15 UNIT PG 3B — 15 — J		SL2
				YIBL — TO ATT POS (PU KEY) — R — TRK PTCH 7 UNIT PG 3B — 5 — J		ACA
				BLIY — TO KEY TEL SET — R-W — TRK PTCH 16 UNIT PG 3B — 16 — J		L
				YIO — TO CO — BK — TRK PTCH 1 UNIT PG 4A — 6 — J		T
				P OIY — TO CO — BK-W — TRK PTCH 2 UNIT PG 4A — 17 — J		R
				YIG — TO ATT POS 1 — R-G — TRK PTCH 12 UNIT PG 4B — 7 — J		TLI
				GIY — TO ATT POS 1 — R-S — TRK PTCH 13 UNIT PG 4B — 18 — J		SLI
				YIBR — TO ATT POS 2 — R-BL-W — TRK PTCH 14 UNIT PG 4B — 8 — J		TL2
				BRIY — TO ATT POS 2 — R-O-W — TRK PTCH 15 UNIT PG 4B — 19 — J		SL2
				YIS — TO ATT POS (PU KEY) — R-G-W — TRK PTCH 7 UNIT PG 4B — 9 — J		ACA
				SIY — TO KEY TEL SET — R-BR-W — TRK PTCH 16 UNIT PG 4B — 11 — J		L

CO TRK 2 (TL 2, SL 2, ACA, L)
CO TRK 3 (T, R, TLI, SLI, TL2, SL2, ACA, L)
CO TRK 4 (T, R, TLI, SLI, TL2, SL2, ACA, L)

PART OF CAD IA

HOUSE & FEEDER CABLE LEADS FROM MODULE 2
(CABLE PAIRS 61-70, GR BINDER)
(SEE NOTE 1)

SHEET NOTES:

1. WHEN PREWIRED CABLE TERMINAL SECTION (J58829AM) IS PROVIDED, HOUSE & FEEDER CABLE LEADS FROM MODULE 2 ARE SHOWN ON CAD 33.

DRAWING ISSUE: 1, 3B, 12D, 21D, 23B, 24D

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NO. 756A
PBX CABLING DIAGRAM (2)

BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-65746-01-G35

SD-65746-01-G35

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SLIDE 1	SLIDE 2	SLIDE 3	SLIDE 4	SLIDE 5	SLIDE 6	LEAD DESIG
				PLUG P PIN NO — PLT		
				VIBL — F STITCH — TO CO — J (S) BL 7 ATA 0 BL 11B NI — M BLIY (E) — TO CO — J (S) BL-W 8 ATA 12 BL-W 10B NI — M VIO (E) — TO ATT POS 1 — M 0 (T) RES 1		T T R R TLI
				OIV — TO ATT POS 1 — M O-W (S) RES 10		SLI
				VIG — TO ATT POS 2 — M G (T) RES 2		CO TRK 5 TL2
				GIV — TO ATT POS 2 — M G-W (S) RES 13		SL2
				VIBR — TO ATT POS — M BR 6 ACA 3		ACA
				BRIV — TO KEY TEL SET — M BR-W (L) RES 14		L
				VIS — TO CO — P (F) S 6M CT 4 S 11B NI — P SIV (E) — TO CO — P (F) S-W 8M CT 15 S-W 10B NI — P W1BL (E) — TO ATT POS 1 — P R (T) RES 5		T T R R TLI
				BLIW — TO ATT POS 1 — P R-W (S) RES 16		SLI
				WIO — TO ATT POS 2 — P BK (T) RES 6		CO TRK 6 TL2
				OIW — TO ATT POS 2 — P BK-W (S) RES 17		SL2
				WIS — TO ATT POS — P 2 R-G 6 ACA 7		ACA
				GIW — TO KEY TEL SET — P R-S (L) RES 18		L
				WIBR — TO CO — R (F) R-BL-W 6M CT 8 R-BL-W 11B NI — R BRIW (E) — TO CO — R (F) R-O-W 8M CT 19 R-O-W 10B NI — R WIS (E) — TO ATT POS 1 — R R-G-W (T) RES 9		T T R R TLI
				SIW — TO ATT POS 1 — R R-BR-W (S) RES 11		SLI

PART OF CAD IA

HOUSE & FEEDER CABLE FROM MODULE 2
(CABLE PAIRS 71-75, GR BINDER & 76-80, BR BINDER)
(SEE NOTE 2)

SHEET NOTES:

1. OPTIONS E & F ARE SHOWN ON SD-65752-01 AND OPTION S IS ON SD-65743-01.
2. WHEN PREWIRED CABLE TERMINAL SECTION (J58829AM) IS PROVIDED, HOUSE & FEEDER CABLE LEADS FROM MODULE 2 ARE SHOWN ON CAD 33.

DRAWING ISSUE

38	M-L Fig.5	W.
88	L.M.R.	T.
12D	P.G. Pl.3	P.
21D	GAP JFP KEJ	PAUD
24D	SAK HW	PAUD
	GFH	
28D	GPW	PAUD

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NO. 756A
PBX CABLING DIAGRAM (2)

SD-65746-01-G36

BELL TELEPHONE LABORATORIES INCORPORATED — DWG SIZE 6S — PRINTED IN U.S.A.

SD-65746-01-G36

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SLIDE 1	SLIDE 2	SLIDE 3	SLIDE 4	SLIDE 5 PLUG N PIN NO.	PLT	SLIDE 6	LEAD DESIG
				RIBL — TO ATT POS 2 — BL — (T) RES — 0	R		TL 2
				BLIR — TO ATT POS 2 — BL-W — (S) RES — 12	R		SL 2
				RIO — TO ATT POS — 0 6 ACA — 1	R		ACA
				OIR — TO KEY TEL SET — O-W — (L) RES — 10	R		L
				RIG — TO CENT. OFF. — G — TRK PTCH UNIT PG 8A 1 — 2	V		T
				GIR — TO CENT. OFF. — G-W — TRK PTCH UNIT PG 8A 2 — 13	V		R
				RIBR — TO ATT POS 1 — BR — TRK PTCH UNIT PG 8B 12 — 3	V		TL 1
				BRIR — TO ATT POS 1 — BR-W — TRK PTCH UNIT PG 8B 13 — 14	V		SL 1
				RIS — TO ATT POS 2 — S — TRK PTCH UNIT PG 8B 14 — 4	V		TL 2
				SIR — TO ATT POS 2 — S-W — TRK PTCH UNIT PG 8B 15 — 15	V		SL 2
				BKIBL — TO ATT POS — R — TRK PTCH UNIT PG 8B 7 — 5	V		ACA
				BLIBK — TO KEY TEL SET — R-W — TRK PTCH UNIT PG 8B 16 — 16	V		L
				BKIO — TO CENT. OFF. — BK — TRK PTCH UNIT PG 9A 1 — 6	V		T
				OIBK — TO CENT. OFF. — BK-W — TRK PTCH UNIT PG 9A 2 — 17	V		R
				BKIG — TO ATT POS 1 — R-G — TRK PTCH UNIT PG 9B 12 — 7	V		TL 1
				GIBK — TO ATT POS 1 — R-S — TRK PTCH UNIT PG 9B 13 — 18	V		SL 1
				BKIBR — TO ATT POS 2 — R-BL-W — TRK PTCH UNIT PG 9B 14 — 8	V		TL 2
				BRIBK — TO ATT POS 2 — R-O-W R — TRK PTCH UNIT PG 9B 15 — 19	V		SL 2
				BKIS — TO ATT POS — R-G-W — TRK PTCH UNIT PG 9B 7 — 9	V		ACA
				SIBK — TO KEY TEL SET — R-BR-W — TRK PTCH UNIT PG 9B 16 — 11	V		L

CO TRK 7 (TL 2, SL 2, ACA, L) — CO TRK 8 (T, R, TL 1, SL 1) — CO TRK 9 (T, R, TL 1, SL 1, TL 2, SL 2, ACA, L)

PART OF CAD IA

(CONTINUED ON SHEET G61)

HOUSE & FEEDER CABLE LEADS FROM MODULE 2
(CABLE PAIRS 81-90, BR BINDER)
(SEE NOTE 1)

SHEET NOTES:
1. WHEN PREWIRED CABLE TERMINAL SECTION (J58829AM) IS PROVIDED, HOUSE & FEEDER CABLE LEADS FROM MODULE 2 ARE SHOWN ON CAD 33.

DRAWING ISSUE

1	W.C. M.R. WS
3B	R.A.L. F.G.B. W.S.
8B	I.M.T. M.G.N. T.E.K. P.D.
12D	K.G. W.S.
21D	GAP JFF KFJ
24D	EWE SAK GFH
28D	ROZ HW GFH

NO. 756A
PBX CABLING DIAGRAM

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SD-65746-01-G37

BELL TELEPHONE LABORATORIES INCORPORATED — DWG SIZE 6S — PRINTED IN U. S. A.

SD-65746-01-G37

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SLIDE 1 PLUG S PIN NO.	PLT	SLIDE 2 PLUG S PIN NO.	PLT	SLIDE 3	SLIDE 4	SLIDE 5	SLIDE 6	LEAD DESIG BAT.	LEAD DESIG GRD
BL — S67 TO FP BAT. & MULT TO HO PLUG — 0	Y	LB — SM 37 — 0	J					S67	
BL-W — FB TO FP GRD — 12	Y	6B — AT "F" STITCH — 12	L						FB
O — S89 TO FP BAT. & MULT TO HI PLUG — 1	Y	RT — SM 39 — 1	K					S89	
O-W — (ZE) (ZD) SEE NOTE 2; MULT TO PLUG P PIN 12; CR RING INT TS — 10 / 1; 6 JI CONN	C	CR TIE TRK ADPT 55 MISC TS — 10	P					*CR	
G — FA TO FP BAT. — 2; SEE NOTE 3	Z	L AT "F" STITCH — 2	L					FA	
G-W — E TO FP GRD — 13	Y	6 TU3 — 13	M						E
BR — RI TO U3 PG & MULT TO H3 PG — 3	P	RI TIE TRK ADPT 56 MISC TS — 3	P					*RI	
BR-W — RG TO U14 PG & MULT TO H14 PG — 14	P	RG TIE TRK ADPT 58 MISC TS "F" STITCH — 14	P						*RG
S — T85 TO FP BAT. — 4	Z	T85 TIE TRK ADPT BAT. TS(A) — 4	P					T85	
S-W — T85 TO FP GRD — 15	Z	T85 TIE TRK ADPT GRD TS(A) — 15	P						T85
R — T86 TO FP BAT. — 5	Z	T86 TIE TRK ADPT BAT. TS(A) — 5	P					T86	
R-W — T86 TO FP GRD — 16	Z	T86 TIE TRK ADPT GRD TS(A) — 16	P						T86
BK — T87 TO FP BAT. — 6	Z	T87 TIE TRK ADPT BAT. TS(A) — 6	P					T87	
BK-W — T87 TO FP GRD — 17	Z	T87 TIE TRK ADPT GRD TS(A) — 17	P						T87
R-G — T88 TO FP BAT. — 7	Z	T88 TIE TRK ADPT BAT. TS(A) — 7	P					T88	
R-S — T88 TO FP GRD — 18	Z	T88 TIE TRK ADPT GRD TS(A) — 18	P						T88
R-BL-W — T89 TO FP BAT. — 8	Z	T89 TIE TRK ADPT BAT. TS(A) — 8	P					T89	
R-O-W — T89 TO FP GRD — 19	Z	T89 TIE TRK ADPT GRD TS(A) — 19	P						T89
R-G-W — T84 TO FP BAT. — 9	Z	T84 TIE TRK ADPT BAT. TS(A) — 9	N					T84	
R-BR-W — T84 TO FP GRD — 11	Z	T84 TIE TRK ADPT GRD TS(A) — 11	N						T84

PART OF CAD 2

RINGING BATTERY AND GROUND LEADS FOR 756A PBX.

DRAWING ISSUE		
1	J.C. M.R	W.S
3B	RAL PBS	W.S
5D	T.P. M.S.	WFO
17D	M.R. M.S. R.D.	A
28D	Bkr GRN	
38D	JJR PJS RHP	

SHEET NOTES.

1. *DENOTES RINGING LEADS.
(MD)2. WHEN J86464A POWER SUPPLY IS PROVIDED.
3. WHEN J86464L POWER SUPPLY IS PROVIDED.

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PBX CABLING DIAGRAM (2) SD-65746-01-638

BELL TELEPHONE LABORATORIES INCORPORATED — DWG SIZE 6S — PRINTED IN U.S.A.

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	SLIDE 1 PLUG E PIN NO.	PLT	SLIDE 2	SLIDE 3 PLUG E PIN NO.	PLT	SLIDE 4	SLIDE 5	SLIDE 6	LEAD DESIG BAT.	LEAD DESIG GRD
A	BL — H — TO GO PLUG — 0			11M — SMC1 — 0	V				H	
	12			12						
B	0 — G — TO GI PLUG — 1			12M — SMC1 — 1	V				G	
	O-W — S23 — TO GIO PLUG — 10			LB — SM 13 — 10	P				S23	
	G — SO — TO G2 PLUG — 2			RT — SM 10 — 2	N				SO	
C	13			13						
	BR — JTO — TO FP BAT. Z — 3			2L — TP — 3	T				JTO	
D	BR-W — JTO — TO FP GRD Z — 14			M — (A) RES — 14	T					JTO
	S — L4 — TO FP BAT. Z — 4			LTI — L49 — 4	L				L4	
	S-W — L4 — TO FP GRD Z — 15			2T — L49 — 15	L					L4
E	R — L5 — TO FP BAT. Z — 5			LTI — L59 — 5	L				L5	
	R-W — L5 — TO FP GRD Z — 16			2T — L59 — 16	L					L5
F	BK — JTI — TO FP BAT. Z — 6			2L — TP — 6	T				JTI	
	BK-W — JTI — TO FP GRD Z — 17			M — (A) RES — 17	T					JTi
	R-G — JT2 — TO FP BAT. Z — 7			2L — TP — 7	U				JT2	
G	R-S — JT2 — TO FP GRD Z — 18			M — (A) RES — 18	U					JT2
	R-BL-W — JT5 — TO FP BAT. Z — 8			2L — TP — 8	U				JT5	
	R-O-W — JT5 — TO FP GRD Z — 19			M — (A) RES — 19	U					JT5
H	R-G-W — SI — TO G9 PLUG — 9			RT — SM 11 — 9	N				SI	
	R-BR-W — S45 — TO GII PLUG — 11			RT — SM 15 — 11	Q				S45	

PART OF CAD 2

RINGING BATTERY AND GROUND LEADS
FOR 756A PBX

DRAWING ISSUE
1 J.C. M.R. W.S.
5D V.P. M.S. W.O.

NO. 756A
PBX CABLING DIAGRAM

SD-65746-01-G39

BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-65746-01-G39

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SLIDE 1 PLUG H PIN NO.	PLT	SLIDE 2	SLIDE 3 PLUG H PIN NO.	PLT	SLIDE 4	SLIDE 5	SLIDE 6
BL 0 S67 TO SO PLUG			0 LB SM 17	R			
12 SEE SHEET 17			12				
0 1 S89 TO S1 PLUG			1 RT SM 19	S			
10 SEE SHEET 17			10				
G 2 S TO FP BAT.	Y		2 L SMC1	V			
G-W 13 F TO FP GRD	Y		13 6 TU5	M			
BR 3 R1 TO S3 PLUG & MULT TO C3 PLUG			3 10 M A(JTR-1)	T			
BR-W 14 RG TO S14 PLUG & MULT TO C14 PLUG			14 7B TP(JTR-1)	T			
S 4 T85 TO FP BAT.	Z		4 T85 BAT. TIE TRK TS (A)	V			
S-W 15 T85 TO FP GRD	Z		15 T85 GRD TIE TRK TS (A)	V			
R 5 T86 TO FP BAT.	Z		5 T86 BAT. TIE TRK TS (A)	V			
R-W 16 T86 TO FP GRD	Z		16 T86 GRD TIE TRK TS (A)	V			
BK 6 T87 TO FP BAT.	Z		6 T87 BAT. TIE TRK TS (A)	V			
BK-W 17 T87 TO FP GRD	Z		17 T87 GRD TIE TRK TS (A)	V			
RG 7 T88 TO FP BAT.	Z		7 T88 BAT. TIE TRK TS (A)	V			
R-S 18 T88 TO FP GRD	Z		18 T88 GRD TIE TRK TS (A)	V			
R-BL-W 8 T89 TO FP BAT.	Z		8 T89 BAT. TIE TRK TS (A)	V			
R-O-W 19 T89 TO FP GRD	Z		19 T89 GRD TIE TRK TS (A)	V			
R-G-W 9 RBI TO FP BAT.	Y		9 L XBR SW1 VERT 9 THM	N			
11 SEE SHEET 17			11				

LEAD DESIG BAT.	LEAD DESIG GRD
S67	
S89	
S	
	F
*R1	
	*RG
T85	
	T85
T86	
	T86
T87	
	T87
T88	
	T88
T89	
	T89
RBI	

PART OF CAD 2

RINGING BATTERY AND GROUND LEADS FOR 756A PBX

DRAWING ISSUE		
1	W.C. M.R.	W.
5D	W.F. M.E.	W.
25D	DWY SAK GFM	
32D	PMC PJS RHP	M.R.

SHEET NOTES:
1. * DENOTES RINGING LEADS.

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PBX CABLING DIAGRAM (2) SD-65746-01-G40

BELL TELEPHONE LABORATORIES INCORPORATED 6S

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SLIDE 1 PLUG J PIN NO.	PLT	SLIDE 2	SLIDE 3	SLIDE 4 PLUG J PIN NO.	PLT	SLIDE 5	SLIDE 6	LEAD DESIG BAT.	LEAD DESIG GRD
BL 0	H TO WO PLUG			0	11M SMCO AA; (T) SEE NOTE 1; PLUG AY4 PIN 9			H	
12				12					
0 1	G TO WI PLUG			1	12M SMCO AA; PLUG AY4 PIN 8			G	
10				10					
G 2	SO TO FP BAT. Y			2	RT SMOO T			SO	
13				13					
3 14	SEE SHEET 12			3 14	SEE SHEET 12				
S 4	TI TO FP BAT. Y			4	L SMC8 AA			TI	
S-W 15	TI TO FP GRD Y			15	6M TRUI Z				TI
R 5	TO TO FP BAT. Y			5	L SMCO AA			TO	
R-W 16	TO TO FP GRD Y			16	6M TRCI Z				TO
BK 6	ATO TO FP BAT. Z			6	L XBR SW 8 VERT 0 THM N			ATO	
17	SEE SHEET 12			17	SEE SHEET 12				
R-G 7	AT1 TO FP BAT. Z			7	L XBR SW 0 VERT 5 THM T			AT1	
18	SEE SHEET 12			18	SEE SHEET 12				
R-BL-W 8	AT2 TO FP BAT. Z			8	L XBR SW 0 VERT 6 THM T			AT2	
19	SEE SHEET 14			19	SEE SHEET 14				
P R-G-W 9				9				SPARE	
P R-BR-W 11				11					SPARE

PART OF CAD 2

RINGING BATTERY AND GROUND LEADS
FOR 756A PBX

SHEET NOTES:

1. STRAPPED IN CROWN SEE SD-66920-01 CAD 1.

DRAWING ISSUE		
1	J.C. M.R.	W.S
5D	K.F. M.S.	W.F.
21D	K.F. JFF K.F.	
23B	WM SAK K.F.	HW
28D	K.F. GR	

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NO. 756A
PBX CABLING DIAGRAM (2)

SD-65746-01-G41

BELL TELEPHONE LABORATORIES INCORPORATED — FORM SIZE 6S — PRINTED IN U. S. A.

SD-65746-01-G41

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SLIDE 1 PLUG T PIN NO.	PLT	SLIDE 2	SLIDE 3	SLIDE 4 PLUG T PIN NO.	PLT	SLIDE 5	SLIDE 6	LEAD DESIG BAT.	LEAD DESIG GRD
BL									
0 C00 TO FP BAT.	Z			0 L XBR SW 0 VERT 0 THM	T			C00	
12				12					
O									
1 BT TO FP BAT.	Y			1 2L A	AA			BT	
O-W									
10 S23 TO FP BAT.	Y			10 LB SM 03	U			S23	
G									
2 C01 TO FP BAT.	Z			2 L XBR SW 0 VERT 1 THM	T			C01	
G-W									
13 Q TO FP GRD	Y			13 5M TKA0	Z				Q
BR									
3 C02 TO FP BAT.	Z			3 L XBR SW 0 VERT 2 THM	T			C02	
14				14					
S									
4 C03 TO FP BAT.	Z			4 L XBR SW 0 VERT 3 THM	T			C03	
15				15					
R									
5 C04 TO FP BAT.	Z			5 L XBR SW 0 VERT 4 THM	T			C04	
16				16					
BK									
6 C05 TO FP BAT.	Z			6 L XBR SW 8 VERT 5 THM	N			C05	
BK-W									
17 P TO FP GRD	Y			17 6 TKA9	Z				P
R-G									
7 C06 TO FP BAT.	Z			7 L XBR SW 8 VERT 6 THM	N			C06	
R-S									
18 S TO FP GRD	Y			18 4M TKB9	Z				S
R-BL-W									
8 C07 TO FP BAT.	Z			8 L XBR SW 8 VERT 7 THM	N			C07	
R-O-W									
19 BT TO FP GRD	Y			19 1U A	AA				BT
R-G-W									
9 RB0 TO FP BAT.	Y			9 L XBR SW 0 VERT 9 THM	T			RB0	
R-BR-W									
11 S45 TO FP BAT.	Y			11 RT SM 05	V			S45	

PART OF CAD 2

RINGING BATTERY AND GROUND LEADS FOR 756A PBX

DRAWING ISSUE		
1	J.C. M.R.	W.S.
3B	RAL F.G.S.	W.S.
5D	K.P. M.S.	W.F. K.W.
28D		

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NO. 756A PBX CABLING DIAGRAM (2)

SD-65746-01-G42

BELL TELEPHONE LABORATORIES INCORPORATED

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SLIDE 1 PLUG U PIN NO.	PLT	SLIDE 2	SLIDE 3	SLIDE 4 PLUG U PIN NO.	PLT	SLIDE 5 PLUG C PIN NO	PLT	SLIDE 6	LEAD BAT.	LEAD GRD	LEAD MISC
8L S67 TO FP BAT. Y				LB SM 07	W				S67		
12				12 PIN 19	AB	ZY SEE NOTE 5 / 12 BT	V				BT
0 S89 TO FP BAT. Y				RT SM 09	X				S89		
10				10 PIN 44 (W) SEE NOTE 6	AB	10 5M SP / 5 SP / ZZ SEE NOTE 5	V				FB
G C09 TO FP BAT. Z				2 L XBR SW 8 VERT 9 THM	N				C09		
13 (ZE) MULT TO PLUGS D PIN 3 & S PIN 3 (ZE) SEE NOTE 3				13							
BR 3 RI RING. INT TS "R" O& MULT TO C 2 S3 PLUG 21 JI CONN MULT TO S3 PLUG				3 10M A(JTR-4)	Y				*RI		
P BR-W 14 RG RING. INT TS "R" O& MULT TO C 20 S14 PLUG 9 JI CONN MULT TO S14 PLUG				14 7B TP(JTR-4)	Y					*RG	
S 4 JT4 TO FP BAT. Z SEE NOTE 4				4 2L TP	Y				JT4		
P S-W MULT TO PLUGS P PIN O & S PIN 14											
15 JT4 TO FP GRD Z				15 M (A) RES	Y					JT4	
R 5 JT3 TO FP BAT. Z				5 2L TP	Y				JT3		
P R-W 16 JT3 TO FP GRD Z				16 M (A) RES	Y					JT3	
BK 6 L6 TO FP BAT. Z				6 (V) LTI L69	L				L6		
P BK-W 17 L6 TO FP GRD Z				17 (V) 2T L69	L					L6	
R-G 7 L7 TO FP BAT. Z				7 (V) LTI L79	L				L7		
P R-S 18 L7 TO FP GRD Z				18 (V) 2T L79	L					L7	
R-BL-W 8 C08 TO FP BAT. Z				8 L XBR SW 8 VERT 8 THM	N				C08		
19				19							
R-G-W 9 SI TO FP BAT. Y				9 RT SM 01	T				SI		
11				11							

PART OF CAD 2

RINGING BATTERY AND GROUND LEADS FOR 756A PBX

SHEET NOTES:

1. * DENOTES RINGING LEADS.
2. OPTION V IS SHOWN ON SD-65741-01.
3. (MD) WHEN J86464A POWER SUPPLY IS PROVIDED.
4. WHEN J86464L POWER SUPPLY IS PROVIDED.
5. OPTIONS ZY AND ZZ ARE SHOWN ON SD-65757-01.
6. PINS 19 & 44 ARE SHOWN ON SD-66920-01 CAD 2 KS-16785 PLUG OPTION W.

DRAWING ISSUE		
1	J.C. M.R.	W.S.
2B	SFL F.G.S.	W.S.
3B	R.P.L. F.G.S.	W.S.
5D	T.P.F. M.S.	WFO
9D	L.M.F. H.W.	HW
17D	M.S. R.D.	
28D		
38D	JJR PJS RHP	HW
40D Pw	JJR PJS RHP	
41D	RHP	

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PBX CABLING DIAGRAM (2) SD-65746-01-G43

BELL TELEPHONE LABORATORIES INCORPORATED — DWG SIZE 6S — PRINTED IN U. S. A.

SD-65746-01-G43

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SLIDE 1 PLUG A PIN NO.	PLT	SLIDE 2	SLIDE 3	SLIDE 4	SLIDE 5 PLUG A PIN NO.	PLT	SLIDE 6	LEAD DESIG BAT.	GRD	FLASH & TONE
BL										
0 ← COO TO FP BAT.	Z				0 ← BAT 23 CO TRK UNIT TS CONN AE5 PIN 0	B		COO		
P BL-W										
12 ← COO TO FP GRD	Z				12 ← GRD 17 CO TRK UNIT TS CONN AE 5 PIN 12	B	(ZA)		COO	
0 (ZE) (ZD) SEE NOTE 2										
MULT TO PLUG D PIN 10							PLUG P			
1 ← TO INT TS 12	C				1 ← 6 A	Z	14 ← 19 CONN AU (ZA)			FFI
JI CONN 12										
B SEE NOTE 1					(N)					
10 SEE NOTE 3					10 ← SEE SHEET GI					FFI
G										
2 ← COI TO FP BAT.	Z				2 ← BAT 23 CO TRK UNIT TS CONN AE5 PIN 2	D		COI		
P G-W										
13 ← COI TO FP GRD	Z				13 ← GRD 17 CO TRK UNIT TS CONN AE5 PIN 13	D			COI	
C BR										
3 ← CO2 TO FP BAT.	Z				3 ← BAT 23 CO TRK UNIT TS CONN AE5 PIN 3	F		CO2		
P BR-W										
14 ← CO2 TO FP GRD	Z				14 ← GRD 17 CO TRK UNIT TS CONN AE5 PIN 14	F			CO2	
D S										
4 ← CO3 TO FP BAT.	Z				4 ← BAT 33 TRK PTCH UNIT PG 3B TRK 3 CONN AE5 PIN 4	J		CO3		
P S-W										
15 ← CO3 TO FP GRD	Z				15 ← GRD 35 TKR PTCH UNIT PG 3B TRK 3 CONN AE5 PIN 15	J			CO3	
R										
E 5 ← CO4 TO FP BAT.	Z				5 ← BAT 33 TRK PTCH UNIT PG 4B TRK 4 CONN AE5 PIN 5	J		CO4		
P R-W										
16 ← CO4 TO FP GRD	Z				16 ← GRD 35 TRK PTCH UNIT PG 4B TRK 4 CONN AE5 PIN 16	J			CO4	
BK										
6 ← CO5 TO FP BAT.	Z				6 ← BAT 23 CO TRK UNIT TS CONN AE5 PIN 6	N		CO5		
P BK-W										
F 17 ← CO5 TO FP GRD	Z				17 ← GRD 17 CO TRK UNIT TS CONN AE5 PIN 17	N			CO5	
R-G										
7 ← CO6 TO FP BAT.	Z				7 ← BAT 23 CO TRK UNIT TS CONN AE5 PIN 7	Q		CO6		
P R-S										
18 ← CO6 TO FP GRD	Z				18 ← GRD 17 CO TRK UNIT TS CONN AE5 PIN 18	Q			CO6	
G R-BL-W										
8 ← CO7 TO FP BAT.	Z				8 ← BAT 23 CO TRK UNIT TS CONN AE5 PIN 8	S		CO7		
P R-O-W										
19 ← CO7 TO FP GRD	Z				19 ← GRD 17 CO TRK UNIT TS CONN AE5 PIN 19	S			CO7	
H 9					9 ← SEE SHEET GI					
11					11					

PART OF CAD 2

RINGING BATTERY AND GROUND LEADS FOR 756A PBX

SHEET NOTES:

1. THE FFI LEAD FROM PLUG A PIN 10 IS RUN IN THE SUPPLEMENTARY HOUSE AND FEEDER CABLE. SEE SHEET 57.

(MD) 2. WHEN J86464A POWER SUPPLY IS PROVIDED.

3. WHEN J86464L POWER SUPPLY IS PROVIDED.

DRAWING ISSUE		
1	J.C. M.R.	W.S.
2B	D.T. F.G.T.	W.S.
15D	J.C.F. M.R.	T.E.B.
17D	M.R. R.S. P.D.	A
18B	EG SJF PD	H.D. H.V.
23B	WM SAK KFJ	
32D	RCM PJS RHF	FMRE
38D	JJR PJS RHF	B

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PBX CABLING DIAGRAM

SD-65746-01-G44

BELL TELEPHONE LABORATORIES INCORPORATED

DWG SIZE 6S

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SLIDE 1 PLUG C PIN NO.	PLT	SLIDE 2 PLUG C PIN NO.	PLT	SLIDE 3	SLIDE 4	SLIDE 5 PLUG C PIN NO.	PLT	SLIDE 6	LEAD DESIG BAT.	LEAD DESIG GRD.	LEAD DESIG FLASH & TONE
BL (ZE) MULT TO PLUG D PIN 14											
(ZD) SEE NOTE 4 RING INT UNIT TS 4	C					10M HD 0	Z				SFI
11 J1 CONN											
SEE NOTE 5 12						SEE SHEET G43 12					
0 (TR) LP 1 (R)	Y					12 NS 1 (R)	J				FA
10						SEE SHEET G43 10					
G CO9 TO FP BAT. 2	Z					(N) BAT. TRK PTCH UNIT PG 9B 33 TRK 9 CONN AE5 PIN 1 2	V		CO9		
P G-W CO9 TO FP GRD 13	Z					GRD. TRK PTCH UNIT PG 9B 35 TRK 9 CONN AE5 PIN 10 13	V			CO9	
BR (W) SEE NOTE 6											
P RI TO H3 PLUG CONN AY1 PIN 11 3						7 MC (T) SEE NOTE 7 CONN AW5 PIN 15 3	B		*RI		
P BR-W RG TO H14 PLUG CONN AY1 PIN 9 14						10M RS CONN AW5 PIN 16 14	B			*RG	
S AP2 TO FP BAT. 4	Y					3 TB2 (INDR) 4	J		**AP2		
P S-W AP2 TO FP GRD 15	Y					2 TB2 (INDR) 15	J			**AP2	
R API TO FP BAT. 5	Y					3 TB1 (INDR) 5	V		API		
P R-W API TO FP GRD 16	Y					2 TB1 (INDR) 16	V			API	
MBD TO FP GRD 6	Z	(DLT) DIODE 14 (ZB)	AB			6			MBD		
MBD TO FP BAT 17 (ZC) SEE NOTE 8	Z	S (PWR-96) KEY 17	AB			17					
R-G											
ATI TO FP BAT. 7	Z					IL AC 7	Z		ATI		
P R-S ATI TO FP GRD 18	Z					1 AC 18	Z			ATI	
R-BL-W											
AT2 TO FP BAT. 8	Z					IL AC (Y) CONN AY5 PIN 2 SEE NOTE 6 8	AA		AT2		
P R-O-W AT2 TO FP GRD 19	Z					1 AC (Y) CONN AY5 PIN 15 SEE NOTE 6 19	AA			AT2	
R-G-W FA TO FP BAT. 9	Z					L ATA 9	J		FA		
R-BR-W FB TO FP GRD 11	Y					12B ATA 11	J			FB	

PART OF CAD 2

RINGING BATTERY AND GROUND LEADS FOR 756A PBX

SHEET NOTES

1. * DENOTES RINGING LEADS.
2. OPTION "R" IS SHOWN ON SD-65743-01.
3. ** THIS FUSE ALSO SUPPLIES 556A SWITCHBOARD. SEE G58.

(MD) 4. WHEN J-86464A POWER SUPPLY IS PROVIDED.

5. WHEN J-86464L POWER SUPPLY IS PROVIDED.
6. STRAPPED IN CROWN SEE SD-66920-01 CAD 1.
7. STRAPPED IN CROWN SEE SD-66920-01 CAD 4.
8. OPTION (ZC) IS SHOWN ON SD-66796-01.

DRAWING ISSUE		
1	J.C. M.R.	WS
2B	D.L.Y. E.G.S.	WS
8B	L.M.R. W.V.H.	TEB
9D	L.M.R. W.V.H.	TEB
17D	M.R. M.S. P.D.	HO
21D	PWF JFF KFJ	HW
23B	DWY SAK KFJ	
26D	DWY SAK GFH	HW
28D	ROZ GFH	HW
WORN DRAWING REPRODUCED WITHOUT CHANGE 2-8-67		
34D	JJR PJS RHP	HW
38D	JJR PJS RHP	HW
40D	JJR PJS RHP	

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PBX CABLING DIAGRAM (2)

SD-65746-01-G45

BELL TELEPHONE LABORATORIES INCORPORATED

DWG SIZE 6S

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SD-65746-01-G45

TCI Library www.telephonecollectors.info

SLIDE 1 PLUG F PIN NO.	PLT	SLIDE 2 PLUG F PIN NO.	PLT	SLIDE 3 PLUG F PIN NO.	PLT	SLIDE 4 PLUG F PIN NO.	PLT	SLIDE 5 PLUG F PIN NO.	PLT	SLIDE 6 PLUG F PIN NO.	PLT	LEAD DESIG BAT.	GRD	FLASH & TONE
BL 0								0						SPARE
12 (ZE) MULT TO PLUG D PIN 1 (ZD) SEE NOTE 2								12 SEE SHEET III						
0 1 30 RING INT UNIT TS. 5	C							1 10M HD	AA					SF2
15 JI CONN SEE NOTE 4								SEE SHEET III 10						
10 (R) CONN AY1 PIN 0														
G (ZE) MULT TO PLUG D PIN 2 2 RING INT UNIT TS 9	C							2 20 TRK PTCH UNIT PG-8A TRK 8	V					F2
18 JI CONN								SEE SHEET III 13						
13 (R) CONN AY1 PIN 1														
BR (ZE) MULT TO PLUG D PIN 13 3 RING INT UNIT TS 13	C							3 6 A	AA					FF2
17 JI CONN SEE NOTE 3								SEE SHEET III 14						
14														
S 4 ATO TO FP BAT.	Z							4 IL AC	Y			ATO		
S-W 15 ATO TO FP GRD	Z							15 I AC	Y				ATO	
R (ZD) SEE NOTE 2 (ZE) MULT TO PLUG D PIN 5 5 LT RING INT UNIT TS 7	C							5 15 TS	AA					LT
14 JI CONN								SEE SHEET III 16						
16 (ZE) MULT TO PLUG D PIN 8 BK														
6 FI RING INT UNIT TS 8	C							6 20 TRK PTCH UNIT PG-9A TRK 9	V					FI
20 JI CONN														
17 (W) CONN AY1 PIN 3 (SEE NOTE 4)								17						
R-G (ZE) MULT TO PLUGS D PIN 12 & P PIN 12 7 CR RING INT TS 1	C							7 29 TRK PTCH UNIT PG-9A TRK 9	V			*CR		
6 JI CONN														
R-S (ZE) MULT TO PLUG D PIN 7 FT RING INT 18 10 TS	C							18 22 TRK PTCH UNIT PG-9A TRK 9	V					FT
CONN AY1 PIN 12 (SEE NOTE 4) (W) 19 JI CONN														
R-BL-W 8 CO8 TO FP BAT. SEE NOTE 3	Z							(N) 8 BAT. 33 TRK PTCH UNIT PG 8B TRK 8 CONN AE5 PIN 9	V			CO8		
R-O-W 19 CO8 TO FP GRD	Z							GRD 19 35 TRK PTCH UNIT PG 8B TRK 8 CONN AE5 PIN 11	V				CO8	
R-G-W 9 FT TO FP BAT	Y	9 TB TO CONN BLK	R	9 SPARE	R	9 SPARE	R	SPARE 9	R	9 TB TO (RB) RES MULT CONN BLK	M	FT (TB)		
11								SEE SHEET III 11						

PART OF CAD 2

RINGING BATTERY AND GROUND LEADS FOR 756A PBX

DRAWING ISSUE

1	J.C. M.R.	
2B	D.C.P. F.G.S.	
3B	P.A.L. F.G.S.	W
5D	V.P. M.S.	W/
9D	K.M.R. W/W	TG
17D	M.R. M.S. P.D.	
21D	R.P. J.F.F. K.F.	
23B	W.M.M. S.A.K. K.F.	HW
36D	J.J.R. C.J.S. R.H.P.	HW
38D	J.J.R. P.J.S. R.H.P.	HW
41D	W.G.M. R.H.P.	

PM1D

SHEET NOTES:

1.* DENOTES RINGING LEADS.

(MD) 2. WHEN J86464A POWER SUPPLY IS PROVIDED.

3. WHEN J86464L POWER SUPPLY IS PROVIDED.

4. STRAPPED IN CROWN. SEE SD-66920-01, CAD 1.

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PBX CABLING DIAGRAM (2)

SD-65746-01-G46

BELL TELEPHONE LABORATORIES INCORPORATED

6S

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SLIDE 1 PLUG L PIN NO.	PLT	SLIDE 2	SLIDE 3	SLIDE 4	SLIDE 5	SLIDE 6 PLUG L PIN NO.	PLT	LEAD DESIG BAT.	LEAD DESIG GRD
BL — D — TO FP BAT. — 0	Y					9M — RPI — 0	Z	D	
BL-W — D — TO FP GRD — 12	Y					3M — TP5 — 12	Z		D
O — E — TO FP BAT. — 1	Y					11M — JTAA — 1	Y	E	
10 — G						10			
Q — TO FP BAT. — 2	Y					7B — TOKB — 2	J	Q	
G-W — Q — TO FP GRD — 13	Y					4M — TA5 — 13	AB		Q
						CONN AU PIN 1			
BR — L3 — TO FP BAT. — 3	Z					12M — TP3 — 3	Z	L3	
P BR-W — L3 — TO FP GRD — 14	Z					1M — TP3 — 14	Z		L3
S — L4 — TO FP BAT. — 4	Z					12M — TP4 — 4	Z	L4	
P S-W — L4 — TO FP GRD — 15	Z					1M — TP4 — 15	Z		L4
R — 5 — TO FP BAT. — 5	Z					12M — TP5 — 5	Z	L5	
P R-W — L5 — TO FP GRD — 16	Z					1M — TP5 — 16	Z		L5
BK — L6 — TO FP BAT. — 6	Z					(V) 12M — TP6 — 6	Z	L6	
P BK-W — L6 — TO FP GRD — 17	Z					(V) 1M — TP6 — 17	Z		L6
R-G — L7 — TO FP BAT. — 7	Z					(V) 12M — TP7 — 7	Z	L7	
P R-S — L7 — TO FP GRD — 18	Z					(V) 1M — TP7 — 18	Z		L7
R-BL-W — L2 — TO FP BAT. — 8	Z					12M — TP2 — 8	Z	L2	
P R-O-W — L2 — TO FP GRD — 19	Z					1M — TP2 — 19	Z		L2
Z — TO FP BAT — 9	Y		(WF)			CONN AA PIN 12 — 9	Z		
Z — TO FP GRD — 11	Y					CONN AA PIN 13 — 11 — SEE SD-66920-01 CAD 9	Z		

PART OF CAD 2

RINGING BATTERY AND GROUND LEADS FOR 756A PBX

SHEET NOTES:

1. OPTION V IS SHOWN ON SD-65741-01.
2. OPTION WF IS SHOWN ON SD-65741-01

DRAWING ISSUE		
1	J.C. M-K	W.S.
3B	R.A.I. F.G.S.	W.S.
4B	M.P. U.E.H.	P.D.
9D	L.M.S. W.W.S.	T.E.R.
31D	C.E.D. S.A.K. G.F.H.	
35D	P.M.C. R.J.S. R.H.P.	H.J. H.W.
41D	W.G.N. S.J. R.H.P.	

SD-65746-01-G47

PBX CABLING DIAGRAM (2) — SD-65746-01-G47

BELL TELEPHONE LABORATORIES INCORPORATED — DWG SIZE 6S — PRINTED IN U.S.A.

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SLIDE 1 PLUG M PIN NO.	SLIDE 1 PLT	SLIDE 2	SLIDE 3	SLIDE 4	SLIDE 5	SLIDE 6 PLUG M PIN NO.	SLIDE 6 PLT	LEAD DESIG BAT.	LEAD DESIG GRD
BL 0	A TO FP BAT. Y					4M 0	TRO AB	A	
BL-W 12	A TO FP GRD Y					3 12	ARBA AB		A
O 1	L TO FP BAT. Y					B 1	ARBB AA	L	
10						10			
G 2	B TO FP BAT. Y					2M 2	TRO AB	B	
G-W 13	B TO FP GRD Y					3 13	ARBB AA		B
BR 3	C TO FP BAT. Y CONN AY 1 PIN 4 (W) SEE NOTE 2					10M 3	RPI Z	C	
BR-W 14	C TO FP GRD Y CONN AY 1 PIN 5					2M 14	TP5 Z		C
S 4	TI TO FP BAT. Y CONN AY 1 PIN 7					12M 4	TRI AA	TI	
S-W 15	TI TO FP GRD Y					2M 15	TEAO AB		TI
R 5	TO TO FP BAT. Y CONN AY 1 PIN 6					12M 5	TRO AB	TO	
R-W 16	TO TO FP GRD Y CONN AY 1 PIN 8					1M 16	TEAO AB		TO
BK 6	F TO FP BAT. Y					11M 6	JTBA X	F	
BK-W 17	DSS TO FP GRD Z					GRD 17	SEE NOTE 1		DSS
R-G 7	J TO FP BAT. Y					22M 7	COBA R	J	
R-S 18	J TO FP GRD Y					3M 18	TACBA Y		J
R-BL-W 8	K TO FP BAT. Y					21M 8	COBA R	K	
R-O-W 19	K TO FP GRD Y					5M 19	TACBA Y		K
R-G-W 9	DSS TO FP +48 BAT. Z					+48 9	SEE NOTE 1		
R-BR-W 11	DSS TO FP BAT. Z					-48 11	SEE NOTE 1	DSS	

PART OF CAD 2

RINGING BATTERY AND GROUND LEADS FOR 756A PBX

DRAWING ISSUE	
1	J.C. W.S. M.R. T.V.S.
16B	J.H. P.Q.B. W.M.
23B	S.A.K. K.F.J.
28D	

SHEET NOTES:

1. CONNECT TO LEAD OF SAME DESIGNATION ON PLUG (U) OF SLIDE 6. SEE SHEET G72.
2. STRAPPED IN CROWN. SEE SD-66920-01, CAD 1.

PBX SYSTEMS
NO. 756A
PBX CABLING DIAGRAM (2)

SD-65746-01-G48

BELL TELEPHONE LABORATORIES INCORPORATED

DWG SIZE 6S

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	SLIDE 1 PLUG W PIN NO.	PLT	SLIDE 2	SLIDE 3	SLIDE 4	SLIDE 5	SLIDE 6 PLUG W PIN NO.	PLT	LEAD DESIG BAT.	LEAD DESIG GRD.	LEAD DESIG MISC.
A	BL — H — 0 — TO FP BAT. & MULT TO JO PLUG	Y					0 — IOM CONB	S	H		
	BL-W — G — 12 — TO FP GRD	Y					12 — 6 ARBA, CONN AU PIN 8	AB		G	
	O — G — 1 — TO FP BAT. & MULT TO J1 PLUG	Y					1 — IOM CONA	T	G		
B	O-W — 10 — MULT TO PIN 10 PLUG P						10 — 7 RI	AA			MI
	G — M — 2 — TO FP BAT.	Y					2 — 7 ARBB	AA	M		
C	G-W — H — 13 — TO FP GRD	Y					13 — 7 ARBA, CONN AU PIN 9	AB		H	
	BR — N — 3 — TO FP BAT.	Y					3 — IOM TP5 (ZG)	Z	N		
	BR-W — 14 — MULT TO PIN 14 PLUG P						14 — 6 TEA2	AB			M2
D	S — P — 4 — TO FP BAT.	Y					4 — 9M TP5	Z	P		
	S-W — 15 — MULT TO PIN 15 PLUG P						15 — 8M TEBI	AA			M3
E	R — R — 5 — TO FP BAT.	Y					5 — 10 TEAO	AB	R		
	R-W — R — 16 — TO FP GRD	Y					16 — 4M TEAO	AB		R	
	BK — S — 6 — TO FP BAT.	Y					6 — 8 LEB	Q	S		
F	BK-W — S — 17 — TO FP GRD	Y					17 — 4 TACAA	Y		S	
	R-G — UA — 7 — TO FP BAT.	Y					7 — 2U U4	V	UA		
	R-S — UA — 18 — TO FP GRD	Y					18 — 1U S4	W		UA	
G	R-BL-W — UB — 8 — TO FP BAT.	Y					8 — 2L U5	V	UB		
	R-O-W — UB — 19 — TO FP GRD	Y					19 — 1U S9	W		UB	
H	9						9				
	11						11				

PART OF CAD 2

RINGING BATTERY AND GROUND LEADS FOR 756A PBX

DRAWING ISSUE	
1	J.C. M.S. W.S.
2B	S.F. F.G.S. W.S.
3B	A.A.L. F.G.S. W.S.
6D	J.B. BAT. T.E.B.
11B	JAS M.S. P.O. A
15D	JFK M.R. T.E.B.
28D	RMZ GRH TWW J.T.W.
41D	WGN RMZ HW

PBX CABLING DIAGRAM (2) SD-65746-01-G49

BELL TELEPHONE LABORATORIES INCORPORATED — DWG SIZE 6S — PRINTED IN U.S.A.

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SD-65746-01-G49

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SLIDE 1 PLUG Y PIN NO.	PLT	SLIDE 2	SLIDE 3	SLIDE 4 PLUG U PIN NO	PLT	SLIDE 5	SLIDE 6 PLUG Y PIN NO	PLT	LEAD DESIG BAT.	GRD	MISC
BL 0	X TO FP BAT. X						3	(CS)RES LMP U	X		
BL-W 12	5 TRAL AA						10	TRCAA Y			AC1
								CONN AW 6 PIN 16			DG
0 1	Y TO FP BAT. X						4	(CS)RES LMP U	Y		
W 10	5B TRAL AA						6	LUCA V			AC2
2				10M TKAO Z 13 (WF)			7	RCAI H			C
								(WF) SEE NOTE 2			
								(W) SEE NOTE 1			
G-W 13	7 TRAL AA						10	TRCBA X			AC3
								CONN AW 6 PIN 15			DE
BR 3	RAO TO FP BAT. Y						L	P2A C	RAO		
BR-W 14	RAO TO FP GRD Y						3	L A		RAO	
S 4	RBO TO FP BAT. Y						L	BY C	RBO		
S-W 15	RBO TO FP GRD Y						6	RT B		RBO	
R 5	RCO TO FP BAT. Y						1L	RA C	RCO		
R-W 16	RCO TO FP GRD Y						1L	TT B		RCO	
BK 6	RAI TO FP BAT. Y						L	P2A F	RAI		
BK-W 17	RAI TO FP GRD Y						3	L D		RAI	
R-G 7	RBI TO FP BAT. Y						L	BY F	RBI		
R-S 18	RBI TO FP GRD Y						6	RT E		RBI	
R-BL-W 8	RCI TO FP BAT. Y						1L	RA F	RCI		
R-O-W 19	RCI TO FP GRD Y						1L	TT E		RCI	
9							9				
R-BR-W 11	7B TRAL AA						6	LUCB U			AC4

PART OF CAD 2

RINGING BATTERY AND GROUND LEADS FOR 756A PBX

DRAWING ISSUE	
1	JC M.E.
2B	DLT FGS
3B	RAL FGS
23B	WAM SAK KFJ
39D	JJR RJS RHP

SHEET NOTES:
1. STRAPPED IN CROWN SEE SD-66920-01, CAD 1.
2. OPTION (WF) IS SHOWN IN SD-65741-01.

PBX CABLING DIAGRAM (2)

BELL TELEPHONE LABORATORIES INCORPORATED

DWG SIZE 6S

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SD-65746-01-G50

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SLIDE 1 PLUG G PIN NO.	PLT	SLIDE 2 PLUG G PIN NO.	PLT
BL			
H TO FP BAT. & MULT TO Y E0 PLUG	Y	11M SMC3	L
BL-W			
(PA)LP	Y	10M AT	L
G TO FP BAT. & MULT TO Y E1 PLUG	Y	12M SMC3	L
O-W			
S23 TO FP BAT. & MULT TO Y E10 PLUG	Y	LB SM33	G
G			
SO TO FP BAT. & MULT TO Y E2 PLUG	Y	BT SM3[illegible]	P
G-W			
(C)RES	Y	13B AT	L
9R			
L3 TO FP BAT	Z	[illegible] L39	
BR-W			
L3 TO FP GRD	Z	2T L39	
S			
T83 TO FP BAT.	Z	T83 TIE TRK ADPT BAT TS(A	N
S-W			
T83 TO FP GRD	Z	T83 TIE TRK ADPT GRD TS(A)	N
R			
T8C TO FP BAT.	Z	T8C TIE TRK ADPT BAT TS(A)	N
R-W			
T8C TO FP GRD	Z	T8C TIE TRK ADPT GRD TS(A)	N
BK			
T8 TO FP BAT	Z	T8 TIE TRK ADPT BAT TS(A)	N
BK-W			
T8 TO FP GRD	Z	T8 TIE TRK ADPT GRD TS(A)	N
R-G			
T82 TO FP BAT.	Z	T82 TIE TRK ADPT BAT TS(A)	N
R-S			
T82 TO FP GRD	Z	T82 TIE TRK ADPT GRD TS(A)	N
R-BL-W			
L2 TO FP BAT.	Z	(YH) [illegible] L39	P
		(Z) DIO[illegible] (SEE NOTE 2)	
R-G-W			
L2 TO FP GRD	Z	(ZV) 4U L39 (SEE NOTE 3)	P
R-S-W			
S TO FP BAT. & MULT TO Y E9 PLUG	Y	2T SM33	P
R-BR-W			
S45 TO FP BAT. & MULT TO Y E11 PLUG	Y	BT SM33	P

LEAD DESIG		
BAT.	GRD	MISC
H		
	-E	
S		
S45		
SO		
		NC4
L3		
T83		
T8C		
T8		
T82		
L2		
S		
S45		

PART OF CAD 2

RINGING BATTERY AND GROUND LEADS
FOR 156A PBX

DRAWING ISSUE		
1	J.C. M.R. R.B.L.	W.S.
3B	R.G.S.	W.F.
5D	V.P. M.S.	W.F.O.
8B	L.P.E. WWW	TE&P
28D	RPZ	A
	GRK	

SHEET NOTES:

1. OPTION R IS SHOWN ON SD-65743-01.
2. OPTIONS YH, YJ, AND ZV ARE SHOWN ON SD-65741-01.
3. GROUND CAN ALSO BE PROVIDED TO U OF RELAY L29 VIA CONTACTS 3 AND 4 OF THE LIM29 PER OPTION ZV SHOWN ON SD-65741-01.

NO 756A PBX CABLING DIAGRAM (2)	SD-65746-01 G5I
BELL TELEPHONE LABORATORIES INCORPORATED	6S

SD-65746-01-G5I

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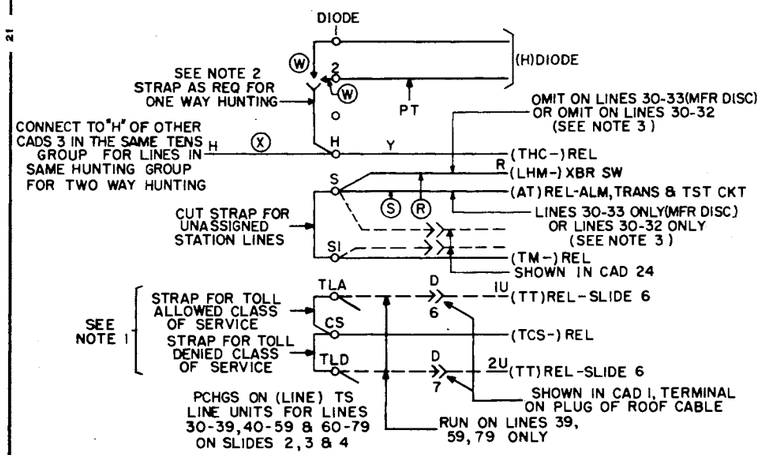
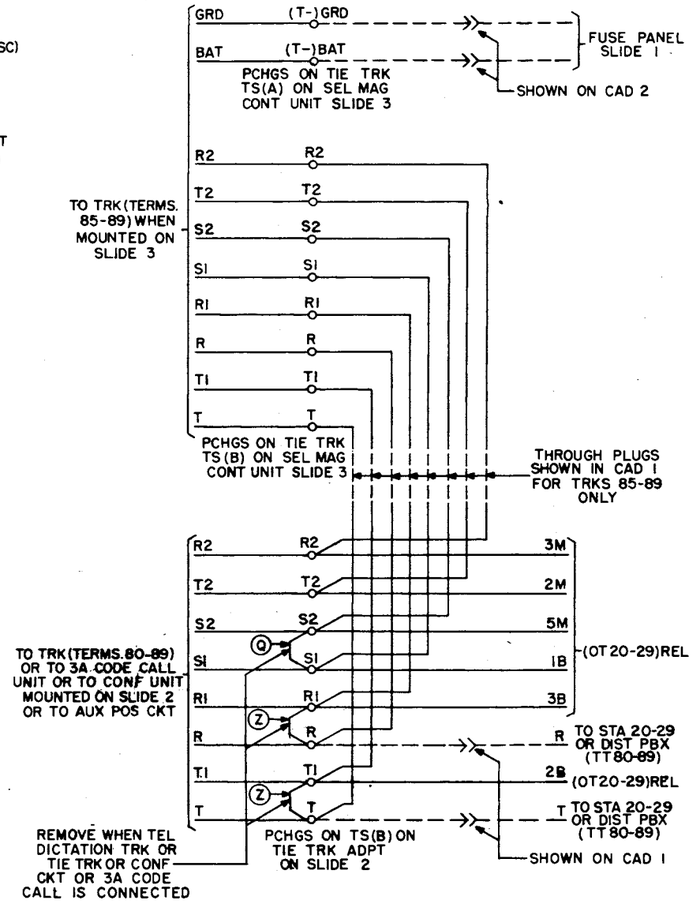
ⓙCAD 3 (MFR DISC.)

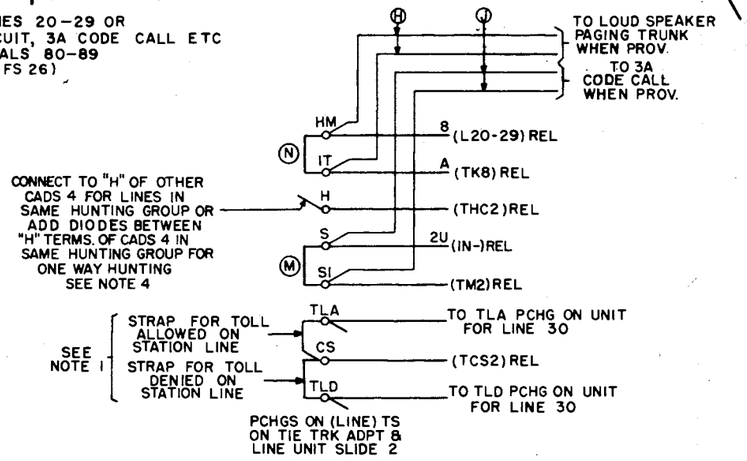
STATION LINE CIRCUIT OPTIONS
(SD-65741-01, FS 1)

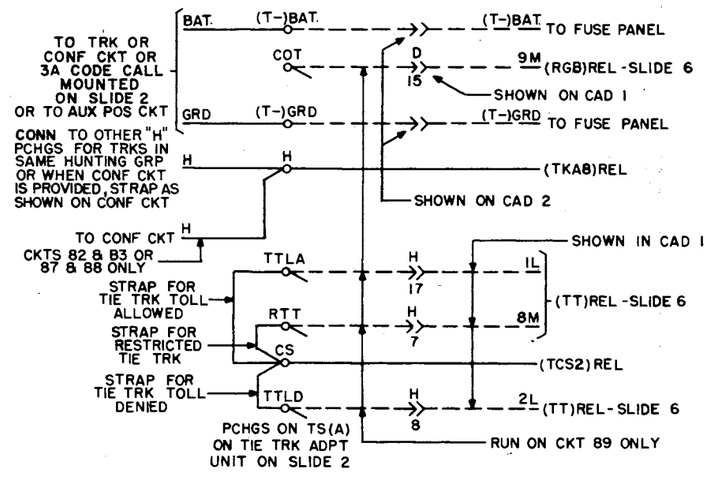


CAD 4 (MFR DISC.)

FOR STATION LINES 20-29 OR TRUNKS, CONFERENCE CIRCUIT, 3A CODE CALL ETC
TRUNK TERMINALS 80-89
(SD-65741-01, FS 26)

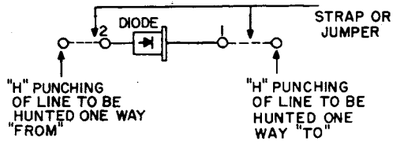






SHEET NOTES:

1. A STATION IS RESTRICTED WHEN NEITHER "TLA" OR "TLD" STRAP IS PROVIDED, I.E.: ACCESS TO THE CENTRAL OFFICE TRUNKS IS DENIED.
2. TWO DIODES ARE PROVIDED FOR EACH GROUP OF 10 LINES. CROSS CONNECT ONE DIODE BETWEEN THE "H" PCHGS OF ANY TWO LINES (IN A TENS GROUP) REQUIRING ONE WAY HUNTING. THE DIRECTION OF HUNTING WILL BE ONE WAY FROM THE LINE CONNECTED TO TERM. 2 TO THE LINE CONNECTED TO TERM. 1.



3. PRIOR TO ISSUE 88, LINE 33 WAS SHOWN IN CAD 3 WITH GROUP OF LINES CONNECTING TO ALM, TRANS. & TST CKT (AT) REL.
4. THE DIRECTION OF HUNTING IS IN THE DIRECTION OF THE ARROW.

DRAWING ISSUE

1	J.C. M.R.	W.S.
2B	R.L.T. F.G.S.	W.S.
3B	R.A.L. F.G.S.	W.S.
4B	M.P. V.E.H.	P.O.
5D	V.F. M.S.	HW P.O. A
9B	L.R.K. J.B.S.	TEB
9D	K.W.F. J.B.S.	TEB
11B	W.R. M.W.	P.O.
16B	T.V.G. J.H. P.O.B.	HW
21D	R.L.D. J.F.F. K.F.S.	HW B
25D	D.W.Y. S.A.K. G.F.H.	

PM JD

25

PBX SYSTEMS
NO. 756A
PBX CABLING DIAGRAM (2)

SD-65746-01-G52

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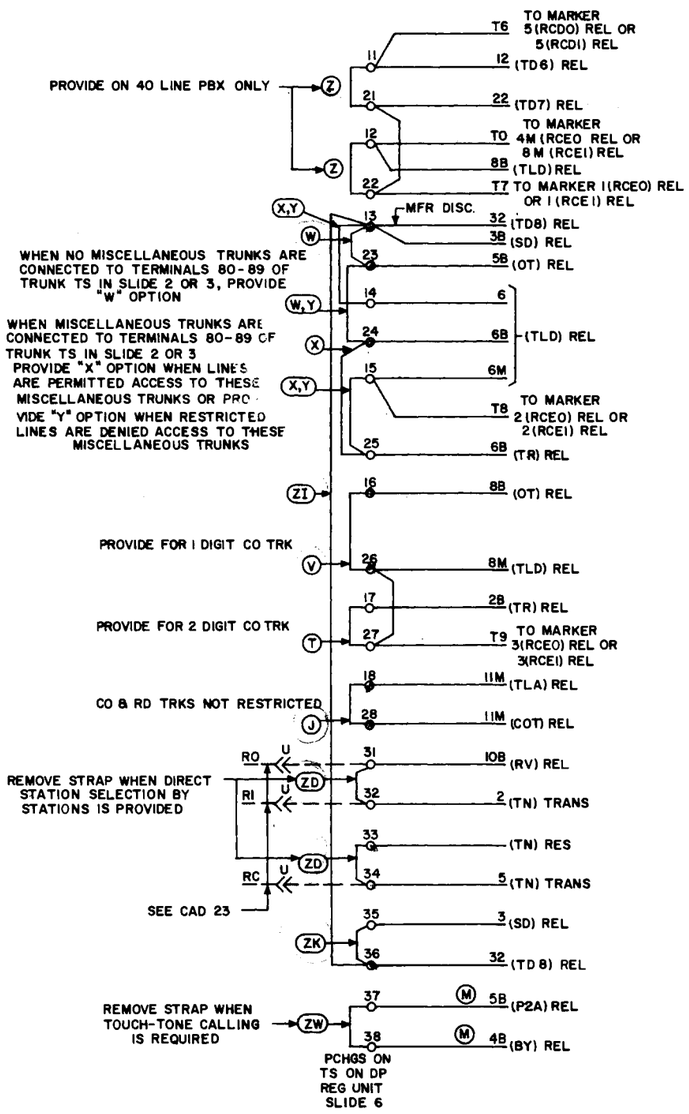
5

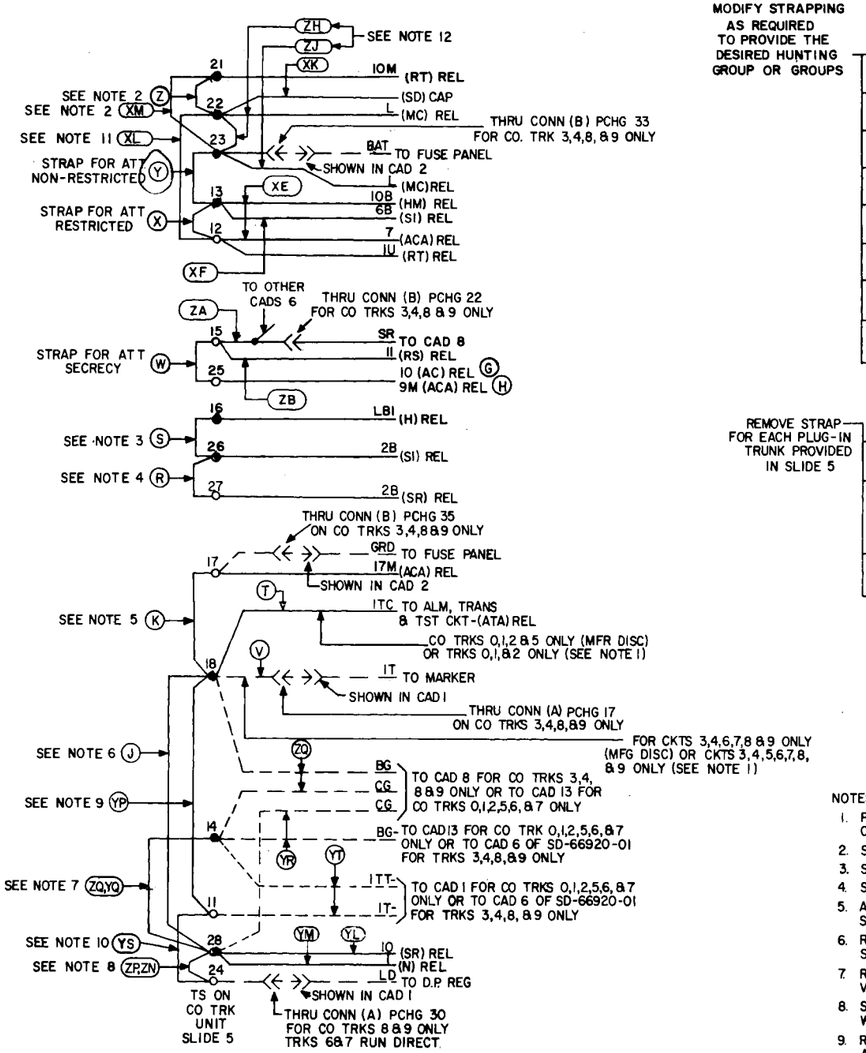
CAD 5

OPTIONS FOR REGISTER CIRCUIT
(SD-65742-01)
(SD-65741-01)



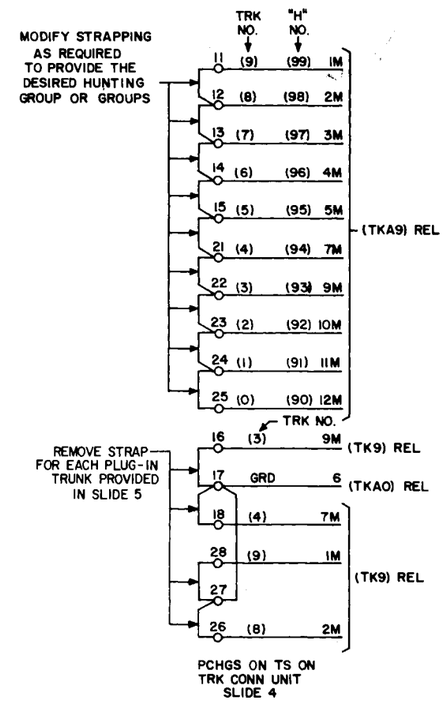
CAD 6

FOR CENTRAL OFFICE TRUNK OPTIONS
(SD-65752-01)



CAD 7

CENTRAL OFFICE & RING DOWN TIE TRUNK HUNT LEADS & INTERCEPT FOR UNEQUIPPED PLUG-IN TRKS
(SD-65741-01, FS5 & FS25)



NOTES:

1. PRIOR TO ISSUE 8B, TRK 5 WAS SHOWN IN CAD 6 WITH GROUP OF TRKS CONNECTED TO ALM, TRANS & TST CKT -(ATA) REL.
2. STRAP FOR ATT NON-LOCKOUT INC AND LOCKOUT OUTGOING.
3. STRAP WHEN CO NOMINAL VOLTAGE IS 40V OR MORE.
4. STRAP WHEN CO NOMINAL VOLTAGE IS 39V OR LESS.
5. ADD STRAP WHEN CO TRUNK IS ARRANGED FOR ONE WAY INCOMING UNASSIGNED SERVICE FOR MAKE BUSY SEE MAINT. BSP.
6. REMOVE STRAP WHEN CO TRUNK IS NOT ARRANGED FOR TWO WAY ASSIGNED SERVICE FOR MAKE BUSY SEE MAINT. BSP.
7. REMOVE STRAP WHEN CO TRUNK IS ARRANGED FOR TWO WAY ASSIGNED SERVICE EQUIPPED FOR NIGHT CONNECTION WITH CORD SWBD.
8. STRAP ONLY ON CO TRUNKS 6&7 "ZP" OPTION AND/OR 8&9 "ZN" OPTION WHEN LONG DIST. SERVICE BY SINGLE DIGIT DIALING IS REQUIRED.
9. REMOVE STRAP WHEN CO TRUNKS 6,7,8, OR 9 ARE ARRANGED FOR LONG DISTANCE SERVICE BY SINGLE DIGIT DIALING.
10. STRAP ONLY ON CO. TRUNKS 6,7,8&9 WHEN LONG DIST SERVICE BY SINGLE DIGIT DIALING IS REQUIRED.
11. STRAP ONLY ON CO TRUNKS 6,7,8&9 THAT ARE ARRANGED FOR LONG DISTANCE SERVICE BY SINGLE DIGIT DIALING AND USED AS TRUNK TO TOLL.
12. OPTIONS ZH & ZJ ARE SHOWN ON THIS CIRCUIT, ALL OTHERS ARE SHOWN ON SD-65752-01.

DRAWING ISSUE	
1	JC MJD
2B	SPL FGS
3B	RAL FGS
6D	JJB BAT
7B	JJB LTS
8B	DMC JRS
9D	MJD SP
10D	SP MJS
12D	MJS
16B	TVG JH POB
17D	MR MS PD
18B	EG SJF PD
19B	JJG RG PD
20B	JJG WH PD
23B	PSH SAK KFJ
WORN DRAWING REPRODUCED WITHOUT CHANGE EWE 12-7-66	
24B	JJR PJS RHP
25B	REK PJS LDJ

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PBX CABLING DIAGRAM (2)

SD-65746-01-G53

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6S

SD-65746-01-653

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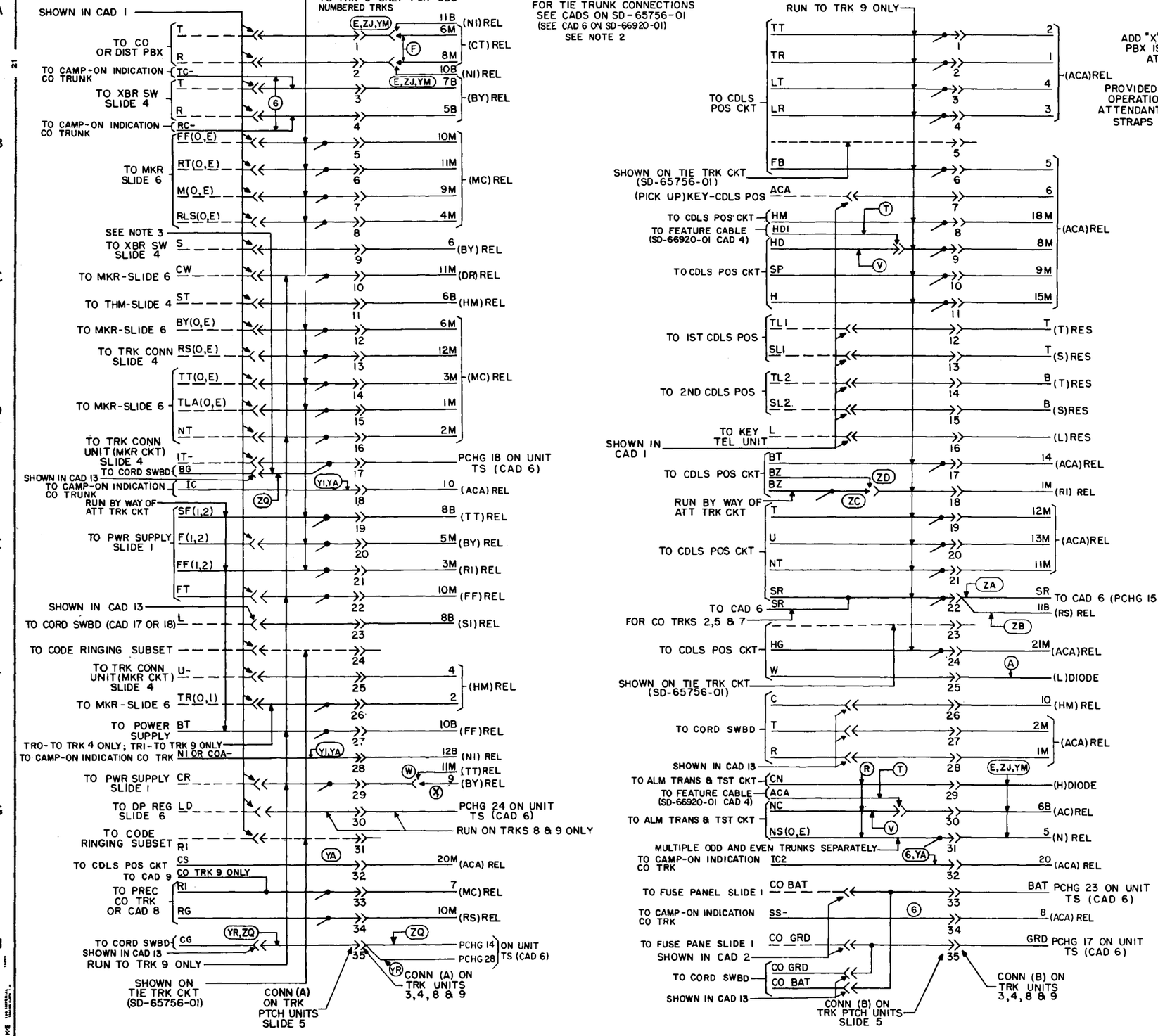
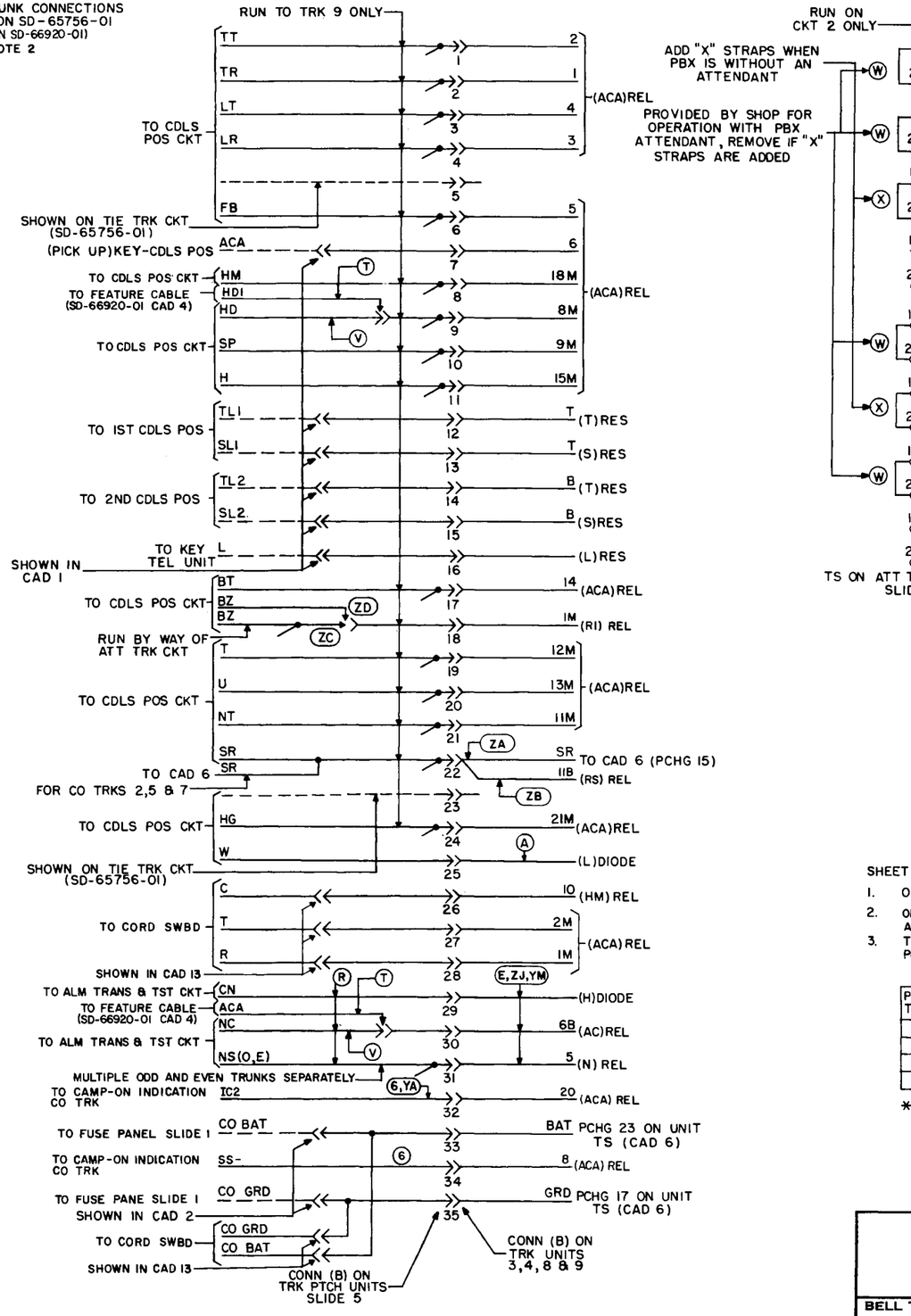
CAD 8

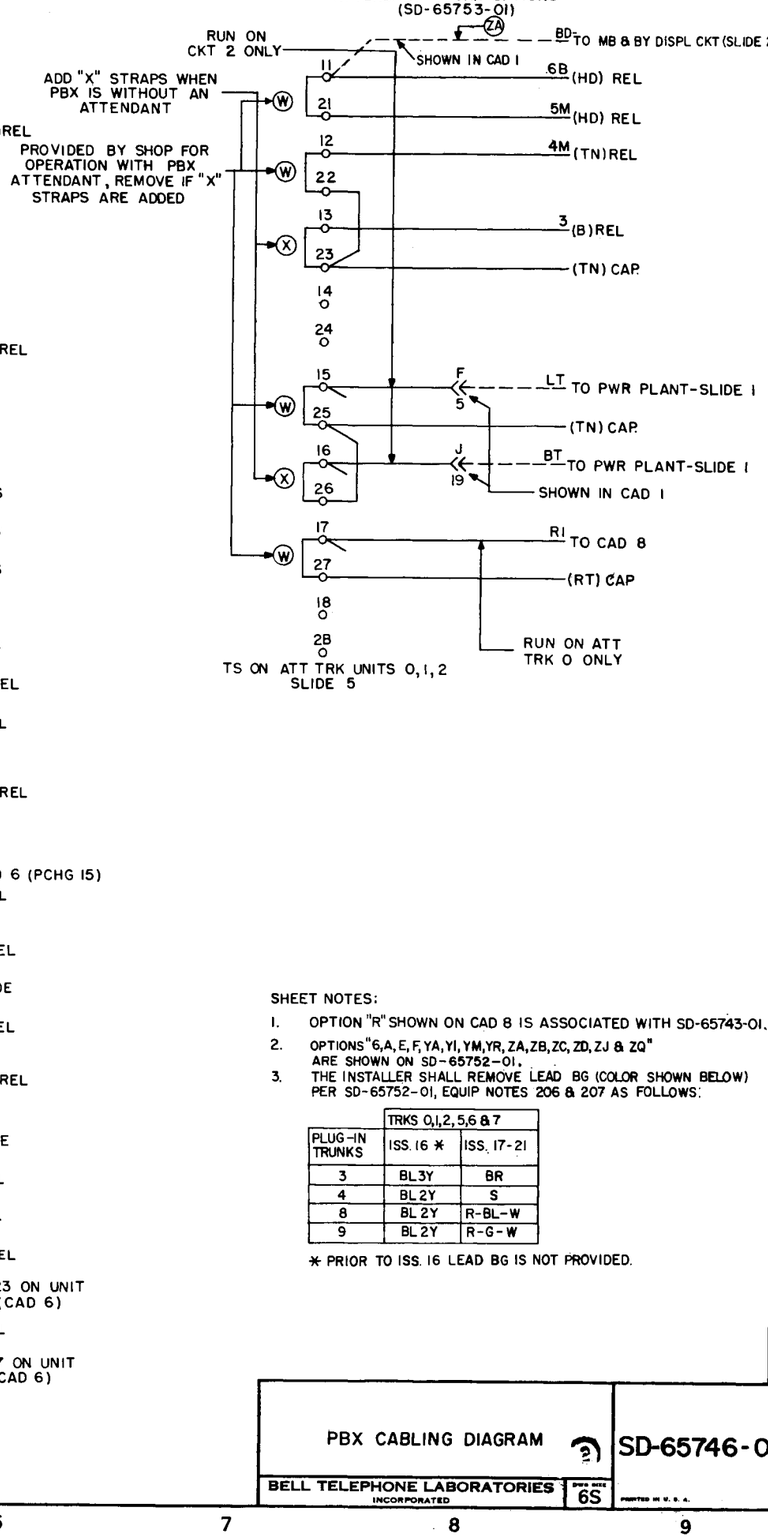


FOR CENTRAL OFFICE TRUNKS 3,4,8,9 (PER SD-65752-01)
FOR TIE TRUNK CONNECTIONS SEE CADS ON SD-65756-01 (SEE CAD 6 ON SD-66920-01) SEE NOTE 2



CAD 9

ATTENDANT TRUNK OPTIONS (SD-65753-01)



SHEET NOTES:

1. OPTION "R" SHOWN ON CAD 8 IS ASSOCIATED WITH SD-65743-01.
2. OPTIONS "6,A,E,F,YA,YI,YM,YR,ZA,ZB,ZC,ZD,ZJ & ZQ" ARE SHOWN ON SD-65752-01.
3. THE INSTALLER SHALL REMOVE LEAD BG (COLOR SHOWN BELOW) PER SD-65752-01, EQUIP NOTES 206 & 207 AS FOLLOWS:

PLUG-IN TRUNKS	TRKS 0,1,2,5,6 & 7	
	ISS. 16 *	ISS. 17-21
3	BL3Y	BR
4	BL2Y	S
8	BL2Y	R-BL-W
9	BL2Y	R-G-W

* PRIOR TO ISS. 16 LEAD BG IS NOT PROVIDED.

DRAWING ISSUE		
1	J.C. MR.	W.S.
2B	DLY FGS	W.S.
3B	R.N. FGS	W.S.
6D	AB BGS	
7B	JB JJS	
8B	EMF JLS	TEB
9D	LBS	TEB
11B	MW	P.D.
12D	JJ M.S.	P.D.
15D	JJS M.E.	T.E.B.
16B	TVG JH POB	
17D	M.E. M.S. P.D.	
20B	JJG WH PD	
21D	SAK JFF KFJ	HW
23B	SAK KFJ	
33AC	PMC SAK RHP	
36D	PJS RHP	HW
43B	REK PJS LDJ	

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PBX CABLING DIAGRAM (2)

SD-65746-01-G54

BELL TELEPHONE LABORATORIES INCORPORATED

SIZE 6S

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PART OF CAD 10

FOR INTERNAL TRAFFIC AND TROUBLE REGISTERS (SD-65744-01), EXTERNAL TRAFFIC AND TROUBLE REGISTERS (SD-5E010-01) AND ALARM CKT (SD-66796-01)

SHOWN IN CAD 1A

STRAP FOR MARGINAL ALARM (2)

48 — 8B, 10B (TR)REL

47 — AK 11 — TR BAT. — TO EXT TR REG WHEN PROVIDED (E) — BAT. (TR) FUSE

REG 6 46 — RBI, LTI — (REG)6

REG 5 45 — LTI — REG 5

REG 4 44 — LTI — REG 4

REG 3 43 — LTI — REG 3

REG 2 42 — LTI — REG 2

REG 1 41 — LTI — REG 1

INTERNAL TRAFFIC REGISTERS

(A)

FA GRD 38 — 8M (TR)REL — FOR BAT. REV ALM

LOF 12

NCPC 36 — K 16 — SHOWN IN CAD 1

TRPC 35 — K 6

STPC 34 — K 4

TOPC 33 — K 3

TPC 32 — K 5

OPC 31 — K 18 — SHOWN IN CAD 1

ROF 11

JPC 27 — K 7 — SHOWN IN CAD 1

BTPC 26 — K 9

OPC9 25 — K 10

OPC8 24 — K 13 — SHOWN IN CAD 1

TPC0 23 — J 3

TPC9 22 — J 14

TPC8 21 — K 15

(A)

FA BAT. 18 — (R) RES — FOR BAT. REV ALM

JOF 17 — K 12 — SHOWN IN CAD 1

OFO 16 — J 18

OF9 15 — J 17 — (Y)

OF8 14 — K 14 — SHOWN IN CAD 1

BTOF 13 — K 2

(A)

TR2 37 — AK 19 — SHOWN IN CAD 1A — TO EXT TRAFFIC REGISTERS WHEN PROVIDED (E)

TR1 28 — AK 9

FA BAT.

FA GND

PART OF TS (REG) ON FUSE PANEL, ALARM & REG UNIT ON SLIDE 1 (Y)

STRAP FROM MKR CONTROL LEADS AS REQ TO REG 1-6 FOR (E) INTERNAL REGISTERS AND TR1-10 FOR EXTERNAL REGISTERS TO REGISTER OPR OF ANY OF CKTS INDICATED.

CAD 11

ASSIGN PCHGS AND CONN AS REQ FOR TRKS, CONF CKT, 3A CODE CALL, ETC WHEN MOUNTED ON SLIDE 2

TO ATND CONT OR STA CONT CONF TR UNIT WHEN PROVIDED

SEE NOTE 2 (XC)

T-(A) 12 — T 10 — SHOWN IN CAD 1A

T

R-(A) 22

R

TL-(A) 32

MONI SL

SL-(A) 42

MON 2

ACA-(B) 13

SL-(B) 23

S

TL-(B) 33

ACA-(A) 43

TC ATND EQPT

SEE CAD 45

SEE NOTE 4 (2)

SEE NOTE 3

11, 21, 31, 41, 14, 24, 34, 44, 15, 25, 35, 45

(MISC) TS ON TIE TRK ADAPTER UNIT, SLIDE 2

LEADS FOR MISC TRUNKS OR OTHER SPECIAL UNITS (SEE NOTE 302)

TO EQUIPMENT EXT TO PBX AS REQ

ASSIGN PCHGS AND CONN AS REQ FOR TRUNKS, CONFERENCE CKT — 3A CODE CALL ETC WHEN MOUNTED ON SLIDE 2

SHOWN IN CAD 1

16, 26, 36, 46, 17, 27, 37, 47, 18, 28, 38, 48, 51, 52

TO EQUIPMENT EXT TO PBX AS REQ

TTI — (K,ZE)

DT 53 — (M)

MS 54

CR 55

RI 56

57

RG 58

MFR DISC

MFR DISC

CONN AS REQ TO TEL DICTATION TRK, ATT OR STA CONT DIAL CONF TRK CKTS, WHEN PROVIDED

TO PWR PLANT ON SLIDE 1

(MISC) TS ON TIE TRK ADAPTER UNIT, SLIDE 2

SHOWN IN CAD 2

(E) PART OF CAD 10

PLUG AK SLIDE 1 PIN NO.

TR 10 58 — 0

TR 9 57 — 12

TR 8 56 — 1

TR 7 55 — 6

TR 6 54 — 17

TR 5 53 — 7

TR 4 52 — 18

TR 3 51 — 8

SHOWN IN CAD 1

PART OF TS (REG) ON FUSE PANEL, ALARM AND REG UNIT ON SLIDE 1

SHEET NOTES:

1. OPTIONS A, Y & Z ARE SHOWN ON SD-66796-01.
2. OPTION XC IS SHOWN ON SD-65741-01.
3. (A) DENOTES LOCKING TYPE KEY TERMINATION. (B) DENOTES NON-LOCKING TYPE KEY TERMINATION.
4. OPTION 2 IS SHOWN ON SD-66902-01.

DRAWING ISSUE		
1	JC MR	WS
2B	SFL FGS	WS
3B	RAL FGS	WS
5D	VP MS	WFO
9D	LMF JBS	A TEB
14B	CAS HP	POB
21D	SAK JFF KFJ	HW
24D	— SAK GFH	HW
26D	DWY SAK GFH	B
27D	GAF SAK GFH	
29D	EWE — GFH	
34D	BCM SAK RHP	
WORN DRAWING REPRODUCED WITHOUT CHANGE 12-28-66 JJR		C
36D	JJR PJS RHP	HW
37D	JJR PJS RHP	
38D	JJR SAK RHP	D HW
42B	BMM PJS LDJ	

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PBX CABLING DIAGRAM

SD-65746-01-G55

BELL TELEPHONE LABORATORIES INCORPORATED — SIZE 6S

SD-65746-01-G55

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SLIDE 1 PLUG D PIN NO.	PLT	SLIDE 2	SLIDE 3	SLIDE 4	SLIDE 5	SLIDE 6	LEAD DESIG
SHOWN ON SD-81326-01							
0	TO BAT. CAB. BL — TS 2 ON RECT 8						BAT-RB2
12	TO BAT. CAB. BL-W — TS R ON RING & TONE SUP 6						GRD-1
1	TO BAT. CAB. O — TS 2 ON RECT 9						BAT-RB3
10							
2	TO BAT. CAB. G — TS 2 ON RECT 11						BAT-RB4
13	TO BAT. CAB. G-W — TS R ON RING & TONE SUP 6						GRD-1
3							
14	TO BAT. CAB. BR-W — TS R ON RING & TONE SUP 4						LT (LT1)
4							
15 (M)	TO BAT. CAB. S-W — TS R ON RING & TONE SUP 2						DT (LT2)
5	TO BAT. CAB. R — TS R ON RING & TONE SUP 8						AC—DC AUD
16	R-W — TS 2 ON RECT 16						GRD-2
P 6	TO BAT. CAB. BK — TS 1 ON RECT 1						60~
P BL-O / 17	TO BAT. CAB. BK-W — TS 1 ON RECT 2						60~ GRD
P 7	TO BAT. CAB. R-G — TS 1 ON RECT 1						60~
P BL-G / 18	TO BAT. CAB. R-S — TS 1 ON RECT 2						60~ GRD
8							
19	TO BAT. CAB. R-O-W — TS 2 ON RECT 2						PG
9							
11	TO BAT. CAB. R-BR-W — SPARE						SPARE

(ZD) CAD 12 (MD)
LEADS TO BATTERY CABINET
(SEE SHEET 113)

DRAWN ISSUE	
28	RD RK
38	[illegible] FC
100	[illegible]
38D	SA GFI
38D Rev	JJ RJ RHF

PBX CABLING DIAGRAM (2)
BELL TELEPHONE LABORATORIES INCORPORATED
DWG SIZE 6S
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38
SD-65746-01-G56

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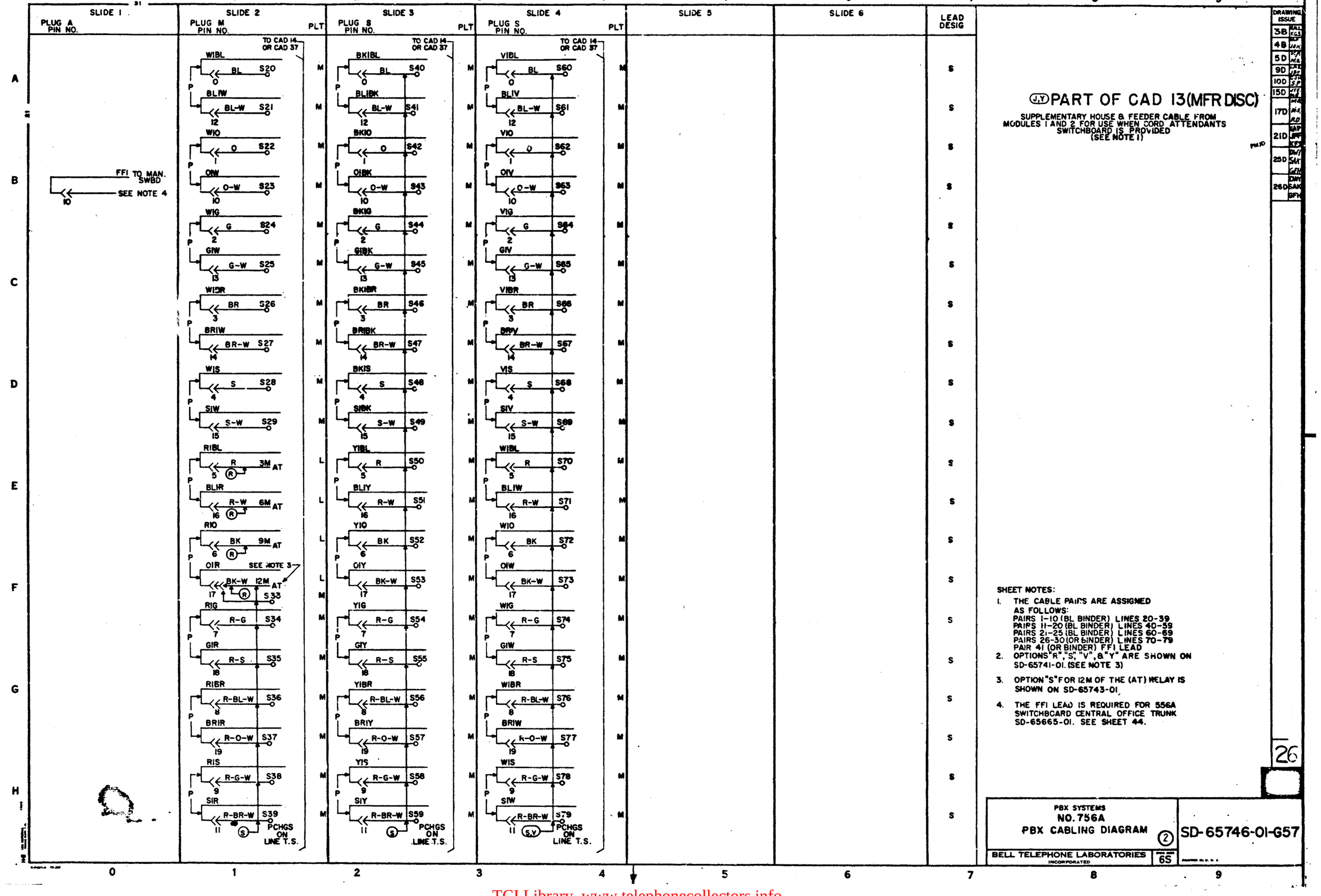

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SLIDE 1 PLUG B PIN NO.	PLT	SLIDE 2	SLIDE 3	SLIDE 4	SLIDE 5	SLIDE 6	LEAD DESIG
RIBL — TO CAD 14, 37 OR 43	Z						L2 BAT
BL — TO FP BAT. (0)							
BLIR — TO CAD 14, 37 OR 43	Z						L3 BAT
BL-W — TO FP BAT. (12)							
RIO — TO CAD 14, 37 OR 43	Z						L4 BAT
O — TO FP BAT. (1)							
OIR — TO CAD 14, 37 OR 43	Z						L5 BAT
O-W — TO FP BAT. (10)							
RIG — TO CAD 14, 37 OR 43	Z						L6 BAT
G — TO FP BAT. (2)							
GIR — TO CAD 14, 37 OR 43	Z						L7 BAT
G-W — TO FP BAT. (13)							
RIBR — TO 556A SWBD	Y						*AP2 GRD
P: BR — TO FP GRD (3)							
BRIR — TO 556A SWBD	Y						*AP2 BAT
P: BR-W — TO FP BAT. (14)							
RIS — TO 556A SWBD	Z						SB GRD
P: S — TO FP GRD (4)							
SIR — TO 556A SWBD	Z						SB BAT
P: S-W — TO FP BAT. (15)							
BKIBL — TO 556A SWBD	Z						SC GRD
P: R — TO FP GRD. (5)							
BLIBK — TO 556A SWBD	Z						SC BAT
P: R-W — TO FP BAT. (16)							
BKIO — TO 556A SWBD	Z						SD GRD
P: BK — TO FP GRD (6)							
OIBK — TO 556A SWBD	Z						SD BAT
P: BK-W — TO FP BAT. (17)							
BKIG — TO 556A SWBD	Z						SE GRD
P: R-G — TO FP GRD (7)							
GIBK — TO 556A SWBD	Z						SE BAT
P: R-S — TO FP BAT. (18)							
BKIBR — TO 556A SWBD	Z						SF GRD
P: R-BL-W — TO FP GRD (8)							
BRIBK — TO 556A SWBD	Z						SF BAT
P: R-O-W — TO FP BAT. (19)							
BKIS — TO 556A SWBD	Z						SG GRD
P: R-G-W — TO FP GRD (9)							
SIBK — TO 556A SWBD	Z						SG BAT
P: R-BR-W — TO FP BAT. (11)							

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ⓨPART OF CAD 13

SUPPLEMENTARY HOUSE & FEEDER CABLE FROM MODULES 1&2 FOR USE WHEN 556A ATTENDANTS SWITCHBOARD OR 608A OR D SWITCHBOARD IS PROVIDED (CABLE PAIRS 31-40)

DRAWING ISSUE	
38	
48	
9D	
21D	
26D	
28D	
39D	
42D	

SHEET NOTES:

1. * THIS FUSE ALSO SUPPLIES ATT POS 2 TB2 INDUCTOR. SEE G45.
2. OPTION "Y" IS SHOWN ON SD-65741-01.

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PBX CABLING DIAGRAM (2) SD-65746-01-G58

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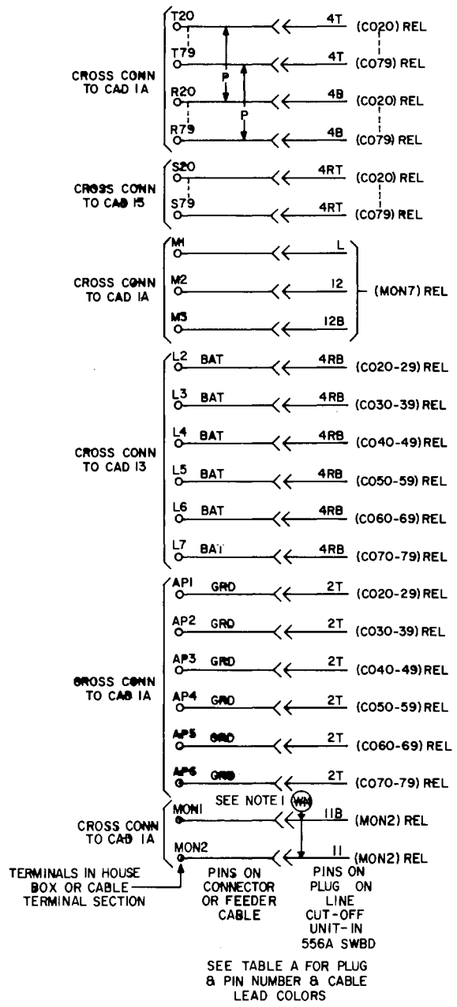
ⓨ CAD 14

FOR USE WITH 556A SWBD
(STA LINE) PLUG-IN HOUSE AND FEEDER CABLE
FOR LINE CUT-OFF UNIT IN 556A SWBD
(SD-65741-01 FSI & 26)



SEE TABLE A FOR PLUG & PIN NUMBER & CABLE LEAD COLORS

TABLE A
PLUG & PIN NUMBERS AND CABLE LEAD COLORS FOR CAD 14

"CF" TYPE T INK COLOR CODED CABLE		MFR DISC "D" I.W. CABLE		BLUE BINDER				ORANGE BINDER				GREEN BINDER				BROWN BINDER			
LEAD COLOR		LEAD COLOR		PAIR NO.	LINE NO.	DESIG	PLUG PIN NO.	PAIR NO.	LINE NO.	DESIG	PLUG PIN NO.	PAIR NO.	LINE NO.	DESIG	PLUG PIN NO.	PAIR NO.	LINE NO.	DESIG	PLUG PIN NO.
TIP	RING	TIP	RING																
W1BL	BL1W	W	BL	1	20	T-R	A 1-2	26	45	T-R	B22-23	51	50	T-R	D 1-2	76	75	T-R	E22-23
W1O	O1W	W	O	2	21	T-R	3-4	27	46	T-R	25-26	52	51	T-R	3-4	77	76	T-R	25-26
W1G	G1W	W	G	3	22	T-R	5-6	28	47	T-R	27-28	53	52	T-R	5-6	78	77	T-R	27-28
W1BR	BR1W	W	BR	4	23	T-R	7-8	29	48	T-R	30-31	54	53	T-R	7-8	79	78	T-R	30-31
W1S	S1W	W	S	5	24	T-R	9-10	30	49	T-R	32-33	55	54	T-R	9-10	80	79	T-R	32-33
R1BL	BL1R	R	BL	6	25	T-R	11-12	31	20-21	S	C 1-2	56	55	T-R	11-12	81	50-51	S	F 1-2
R1O	O1R	R	O	7	26	T-R	13-14	32	22-23	S	3-4	57	56	T-R	13-14	82	52-53	S	3-4
R1G	G1R	R	G	8	27	T-R	15-16	33	24-25	S	5-6	58	57	T-R	15-16	83	54-55	S	5-6
R1BR	BR1R	R	BR	9	28	T-R	17-18	34	26-27	S	7-8	59	58	T-R	17-18	84	56-57	S	7-8
R1S	S1R	R	S	10	29	T-R	20-21	35	28-29	S	9-10	60	59	T-R	20-21	85	58-59	S	9-10
BK1BL	BL1BK	BK	BL	11	30	T-R	22-23	36	30-31	S	11-12	61	60	T-R	22-23	86	60-61	S	11-12
BK1O	O1BK	BK	O	12	31	T-R	25-26	37	32-33	S	13-14	62	61	T-R	25-26	87	62-63	S	13-14
BK1G	G1BK	BK	G	13	32	T-R	27-28	38	34-35	S	15-16	63	62	T-R	27-28	88	64-65	S	15-16
BK1BR	BR1BK	BK	BR	14	33	T-R	30-31	39	36-37	S	17-18	64	63	T-R	30-31	89	66-67	S	17-18
BK1S	S1BK	BK	S	15	34	T-R	32-33	40	38-39	S	20-21	65	64	T-R	32-33	90	68-69	S	20-21
Y1BL	BL1Y	Y	BL	16	35	T-R	B 1-2	41	40-41	S	22-23	66	65	T-R	E 1-2	91	70-71	S	22-23
Y1O	O1Y	Y	O	17	36	T-R	3-4	42	42-43	S	25-26	67	66	T-R	3-4	92	72-73	S	25-26
Y1G	G1Y	Y	G	18	37	T-R	5-6	43	44-45	S	27-28	68	67	T-R	5-6	93	74-75	S	27-28
Y1BR	BR1Y	Y	BR	19	38	T-R	7-8	44	46-47	S	30-31	69	68	T-R	7-8	94	76-77	S	30-31
Y1S	S1Y	Y	S	20	39	T-R	9-10	45	48-49	S	32-33	70	69	T-R	9-10	95	78-79	S	32-33
V1BL	BL1V	V	BL	21	40	T-R	11-12	46	MKR	M1,MON1	B19,A34	71	70	T-R	11-12	96	MKR	M2-M3	E 19-24
V1O	O1V	V	O	22	41	T-R	13-14	47	GRD	AP1-AP2	B34-35	72	71	T-R	13-14	97	GRD	AP4-5	E 34-35
V1G	G1V	V	G	23	42	T-R	15-16	48	GRD	AP3,MON2	B29,A35	73	72	T-R	15-16	98	GRD	AP6-	E 29
V1BR	BR1V	V	BR	24	43	T-R	17-18	49	BAT.	L2-L3	C34-35	74	73	T-R	17-18	99	BAT.	L5-L6	F34-35
V1S	S1V	V	S	25	44	T-R	20-21	50	BAT.	L4-	C29-	75	74	T-R	20-21	100	BAT.	L7-	F29-

SHEET NOTES:

1. OPTION "Y", "WN" ARE SHOWN ON SD-65741-01.

DRAWING ISSUE		
3B	RAL FGS	WS
5D	VP MS	WFO
9D	LMR JBS	A TEB NY HO
21D	BLD JFF KFJ	HW
24D	— SAK GFH	
WORN DRAWING REPRODUCED WITHOUT CHANGE 12-13-65 WPA		
36D	JJR PJS RHP	HW

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PBX CABLING DIAGRAM

SD-65746-01-G59

BELL TELEPHONE LABORATORIES INCORPORATED — DWG SIZE 6S — PRINTED IN U.S.A.

SD-65746-01-G59

E-7421 (10-61)

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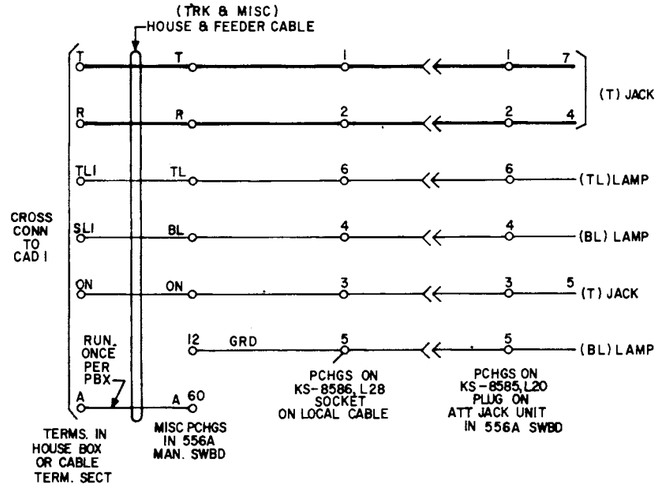
CAD 15

FOR ATT JACK UNIT MOUNTED IN 556A MANUAL SWBD (SD-65753-01 "Z" OPT)



SEE TABLE A FOR PCHG NO.

FOR ATT JACK & LAMPS MOUNTED IN 608A OR 608D SWBD
(SD-65753-01 "A" OPT)

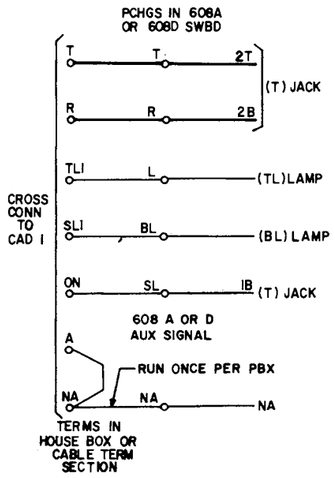
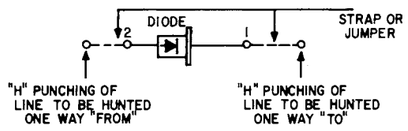


TABLE A

LEAD DESIG	MISC PCHG IN MAN SWBD		
	TRK 0	TRK 1	TRK 2
T	45	49	53
R	46	50	54
TL	47	51	55
BL	48	52	56
ON	57	58	59

SHEET NOTES:

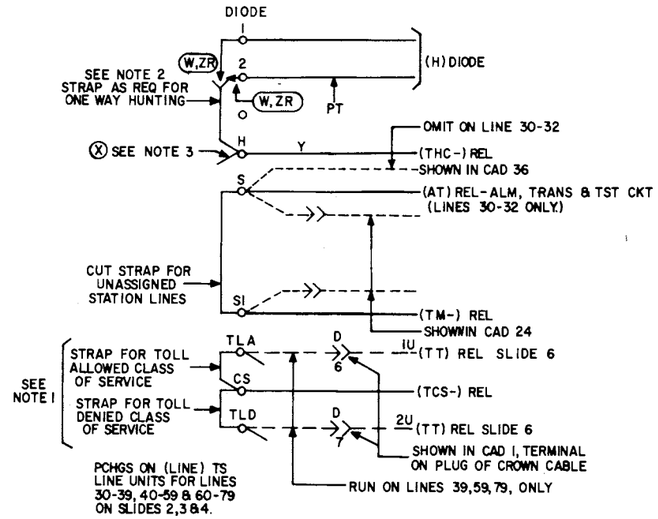
1. A STATION IS RESTRICTED WHEN NEITHER "TLA" OR "TLD" STRAP IS PROVIDED, I.E. ACCESS TO THE CENTRAL OFFICE TRUNKS IS DENIED.
2. TWO DIODES ARE PROVIDED FOR EACH GROUP OF 10 LINES. CROSS CONNECT ONE DIODE BETWEEN THE "H" PCHGS OF ANY TWO LINES (IN A TENS GROUP) REQUIRING ONE WAY HUNTING. THE DIRECTION OF HUNTING WILL BE ONE WAY FROM THE LINE CONNECTED TO TERM 2 TO THE LINE CONNECTED TO TERM 1.



3. CONNECT TO OTHER CADS 35 IN THE SAME TENS GROUP FOR LINES IN SAME HUNTING GROUP FOR TWO WAY HUNTING.

Ⓗ CAD 35

STATION LINE CIRCUIT OPTIONS
(SD-65741-01, FSI & II)



DRAWING ISSUE		
3B	RAL FGS	W.S
9D	LMW MBS	TEB
10D	C-H S P	PD
16B	TVG JH POB	NY A HO
24D	— SAK GFH	HW
25D	DWY SAK GFH	
26D	DWY SAK GFH	HW
31D	CED SAK GFH	B HW
WORN DRAWING REPRODUCED WITHOUT CHANGE 2-13-67 JJR		
4	JJR JJS RHF	
12B	BMM PJS LDJ	C

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PBX CABLING DIAGRAM (2)

SD-65746-01-G60

BELL TELEPHONE LABORATORIES INCORPORATED

DWG SIZE 6S

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SLIDE 1	SLIDE 2	SLIDE 3	SLIDE 4	SLIDE 5	SLIDE 6 PLUG T PIN NO.	PLT	LEAD DESIG
					YIBL TO ATT POS 1 / BL 1 POS 1 (0)	G	KP1
					BLIY TO ATT POS 1 / BL-W 2 POS 1 (12)	G	KP2
					YIO TO ATT POS 1 / O 3 POS 1 (1)	G	KP3
					OIY TO ATT POS 1 / O-W 4 POS 1 (10)	G	KP4
					YIG TO ATT POS 1 / G 5 POS 1 (2)	G	KP5
					GIV TO ATT POS 1 / G-W 6 POS 1 (13)	G	KP6
					YIBR TO ATT POS 1 / BR 7 POS 1 (3)	G	KP7
					BRIY TO ATT POS 1 / BR-W 8 POS 1 (14)	G	KP8
					YIS TO ATT POS 1 / S 9 POS 1 (4)	G	KP9
					SIY TO ATT POS 1 / S-W 10 POS 1 (15)	G	KP0
					VIBL TO ATT POS 2 / R 1 POS 2 (5)	H	KP1
					BLIV TO ATT POS 2 / R-W 2 POS 2 (16)	H	KP2
					VIO TO ATT POS 2 / BK 3 POS 2 (6)	H	KP3
					OIV TO ATT POS 2 / BK-W 4 POS 2 (17)	H	KP4
					VIG TO ATT POS 2 / R-G 5 POS 2 (7)	H	KP5
					GIV TO ATT POS 2 / R-S 6 POS 2 (18)	H	KP6
					VIBR TO ATT POS 2 / R-BL-W 7 POS 2 (8)	H	KP7
					BRIV TO ATT POS 2 / R-O-W 8 POS 2 (19)	H	KP8
					VIS TO ATT POS 2 / R-G-W 9 POS 2 (9)	H	KP9
					SIV TO ATT POS 2 / R-BR-W 10 POS 2 (11) (Q)	H	KP0

PART OF CAD IA

(CONTINUED FROM SHEET G37)
HOUSE AND FEEDER CABLE LEADS FROM MODULE 2
(CABLE PAIRS 91-100, BR BINDER)

SHEET NOTES:
1. OPTION "Q" IS SHOWN ON SD-65742-01.
2. OPTION "Q" IS RATED "MFR DISC." SEE SHEET G71 FOR NEW PLUG T CONNECTIONS.

DRAWING ISSUE: 8B, 16B, 21D

PBX SYSTEMS
NO. 756A
PBX CABLING DIAGRAM (2)
SD-65746-01-G61
BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-65746-01-G61

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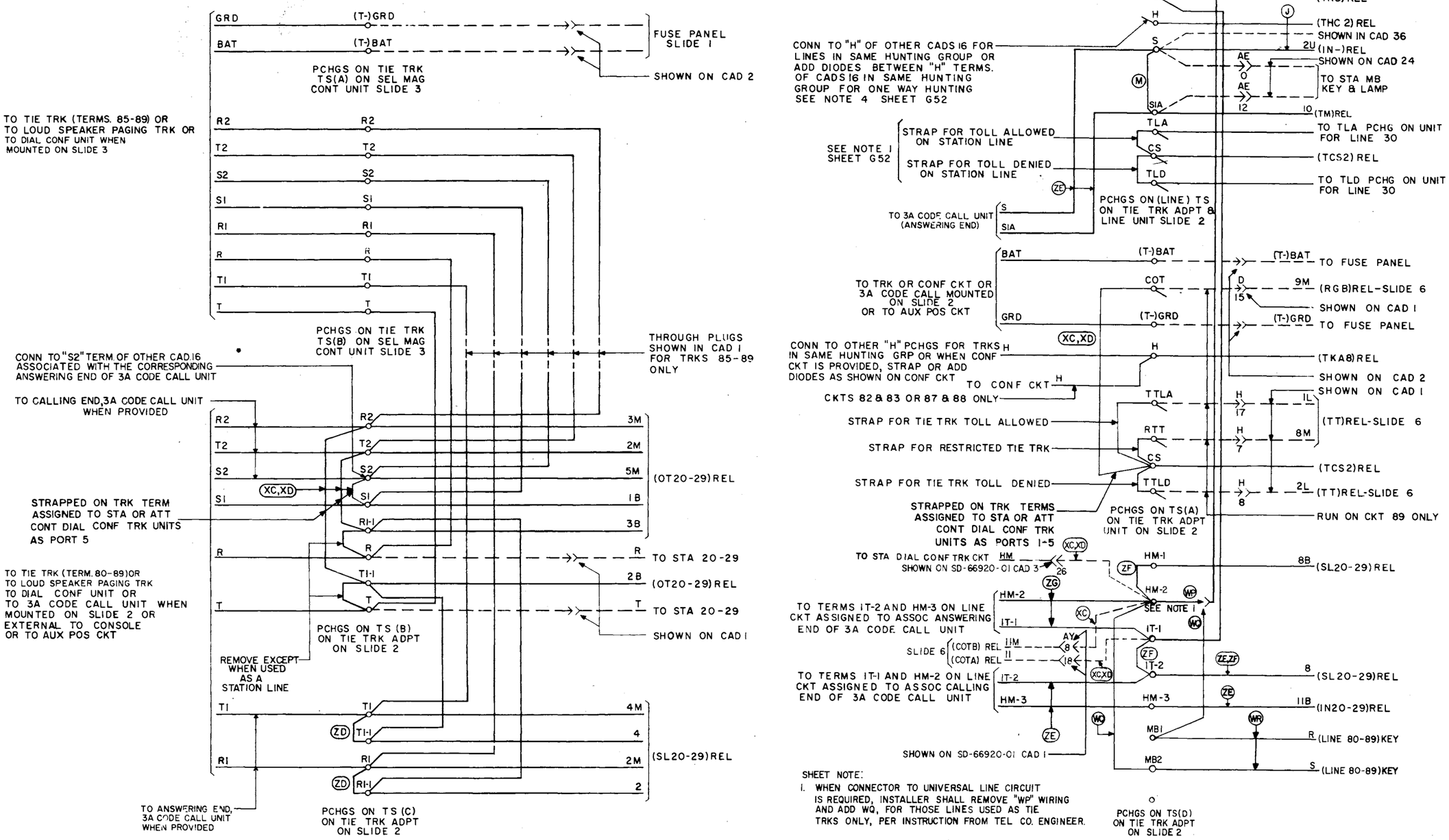
CAD 16

FOR STATION LINES 20-29 OR
TRUNKS, CONFERENCE CIRCUIT, 3A CODE CALL ETC
TRUNK TERMINALS 80-89
(SD-65741-01, FS 26)



SHEET NOTE:

1. WHEN CONNECTOR TO UNIVERSAL LINE CIRCUIT IS REQUIRED, INSTALLER SHALL REMOVE "WP" WIRING AND ADD WQ, FOR THOSE LINES USED AS TIE TRKS ONLY, PER INSTRUCTION FROM TEL CO. ENGINEER.

DRAWING ISSUE

11B	FJS WW JWF M.S
12D	
14B	C.S. HP
16B	TVG JH POB
21D	SAP JFF KFJ
23B	SAK KFJ
25D	DWY SAK GFH
26D	- SAK GFH
34D	BCM SAK RHP
36D	JJR PJS RHP

PMTM

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PBX CABLING DIAGRAM (2) SD-65746-01-G62

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SLIDE 1	SLIDE 2	SLIDE 3	SLIDE 4	SLIDE 5 PLUG B PIN NO. PLT	SLIDE 6	LEAD DESIG
				WIBL TO CAD 17 OR 18 BL 5 SE0 AB 0		TO
				BLIW TO CAD 17 OR 18 BL-W 4 SE0 AB 12		RO
				WIO TO CAD 17 OR 18 O 9 SE1 AB 1		TI
				OIW TO CAD 17 OR 18 O-W 8 SE1 AB 10		RI
				WIG TO CAD 17 OR 18 G 5 SE2 AB 2		T2
				GIW TO CAD 17 OR 18 G-W 4 SE2 AB 13		R2
				WIBR TO CAD 17 OR 18 BR 9 SE3 AB 3		T3
				BRIW TO CAD 17 OR 18 BR-W 8 SE3 AB 14		R3
				WIS TO CAD 17 OR 18 S 5 SE4 AB 4		T4
				SIW TO CAD 17 OR 18 S-W 4 SE4 AB 15		R4
				RIBL TO CAD 17 OR 18 R 9 SE5 AB 5		T5
				BLIR TO CAD 17 OR 18 R-W 8 SE5 AB 16		R5
				RIO TO CAD 17 OR 18 BK 5 SE6 AB 6		T6
				OIR TO CAD 17 OR 18 BK-W 4 SE6 AB 17		R6
				RIG TO CAD 17 OR 18 R-G 9 SE7 AB 7		T7
				GIR TO CAD 17 OR 18 R-S 8 SE7 AB 18		R7
				RIBR TO CAD 17 OR 18 R-BL-W 5 SE8 AB 8		T8
				BRIR TO CAD 17 OR 18 R-O-W 4 SE8 AB 19		R8
				RIS TO CAD 17 OR 18 R-G-W 9 SE9 AB 9		T9
				SIR TO CAD 17 OR 18 R-BR-W 8 SE9 AB 11		R9

DRAWING ISSUE	
15D	JCK MR TEB
16B	TVG JH POB
21D	RVP JFF KFJ
23B	DSP SAK KFJ

PMJD

(Q,Y) PART OF CAD 13 (MFR DISC.)

SUPPLEMENTARY HOUSE & FEEDER CABLE FROM MODULES 1 AND 2 FOR USE WHEN MANUAL ATTENDANTS SWITCHBOARD IS PROVIDED
(INTERNALLY MOUNTED AUXILIARY TRUNK RELAY UNIT)

SHEET NOTES:
1. OPTION "Y" IS SHOWN ON SD-65741-01.

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PBX SYSTEMS
NO. 756A
PBX CABLING DIAGRAM
(2)

BELL TELEPHONE LABORATORIES INCORPORATED

DWG SIZE 6S

SD-65746-01-G63

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SD-65746-01-G63

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SLIDE 1	SLIDE 2	SLIDE 3	SLIDE 4	SLIDE 5	SLIDE 6	LEAD DESIG
				PLUG D PIN NO. PLT		
				BKIBL TO CAD 17 OR 18 — BL S0 TS A 21 CO TRK — AB — 0		S0
				12		
				BLIBK TO CAD 17 OR 18 — O S1 TS A 22 CO TRK — AB — 1		S1
				10		
				BKIO TO CAD 17 OR 18 — G S2 TS A 23 CO TRK — AB — 2		S2
				13		
				OIBK TO CAD 17 OR 18 — BR S3 TS A 24 CO TRK — AB — 3		S3
				14		
				BKIG TO CAD 17 OR 18 — S S4 TS A 25 CO TRK — AB — 4		S4
				15		
				GIBK TO CAD 17 OR 18 — R S5 TS B 21 CO TRK — AB — 5		S5
				16		
				BKIBR TO CAD 17 OR 18 — BK S6 TS B 22 CO TRK — AB — 6		S6
				17		
				BRIBK TO CAD 17 OR 18 — R-G S7 TS B 23 CO TRK — AB — 7		S7
				18		
				BKIS TO CAD 17 OR 18 — R-BL-W S8 TS B 24 CO TRK — AB — 8		S8
				19		
				SIBK TO CAD 17 OR 18 — R-G-W S9 TS B 25 CO TRK — AB — 9		S9
				11		

DRAWING ISSUE

15D	VEK MR	TEB
16B	TVG JH POB	NY 110 A
21D	MF JFF KFJ	HW
23B	RSP SAK KFJ	

PMJD

(Q,Y) PART OF CAD 13 (MFR DISC.)

SUPPLEMENTARY HOUSE & FEEDER CABLE FROM MODULES 1 AND 2 FOR USE WHEN MANUAL ATTENDANTS SWITCHBOARD IS PROVIDED
(INTERNALLY MOUNTED AUXILIARY TRUNK RELAY UNIT)

SHEET NOTES:
1. OPTION "Y" IS SHOWN ON SD-65741-01.

23

PBX SYSTEMS
NO. 756A
PBX CABLING DIAGRAM (2)

SD-65746-01-G64

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SLIDE 1	SLIDE 2	SLIDE 3	SLIDE 4	SLIDE 5	SLIDE 6	LEAD DESIG
				PLUG Y PIN NO. — PLT		
				YIBL — TO CAD 17 OR 18		
				BL IL SEO — 0 — AB		SLO
				BLIY — TO CAD 17 OR 18		
				BL-W 8B SI — 12 — A		LO
				YIO — TO CAD 17 OR 18		
				O IU SEI — 1 — AB		SLI
				OIY — TO CAD 17 OR 18		
				O-W 8B SI — 10 — C		LI
				YIG — TO CAD 17 OR 18		
				G IL SE2 — 2 — AB		SL2
				GIY — TO CAD 17 OR 18		
				G-W 8B SI — 13 — E		L2
				YIBR — TO CAD 17 OR 18		
				BR IU SE3 — 3 — AB		SL3
				BRIY — TO CAD 17 OR 18		
				BR-W TRK PTCH UNIT PG3A — 14 — J		L3
				YIS — TO CAD 17 OR 18		
				S IL SE4 — 4 — AB		SL4
				SIY — TO CAD 17 OR 18		
				S-W TRK PTCH UNIT PG4A — 15 — J		L4
				VIBL — TO CAD 17 OR 18		
				R IU SE5 — 5 — AB		SL5
				BLIV — TO CAD 17 OR 18		
				R-W 8B SI — 16 — M		L5
				VIO — TO CAD 17 OR 18		
				BK IL SE6 — 6 — AB		SL6
				OIV — TO CAD 17 OR 18		
				BK-W 8B SI — 17 — P		L6
				VIG — TO CAD 17 OR 18		
				R-G IU SE7 — 7 — AB		SL7
				GIV — TO CAD 17 OR 18		
				R-S 8B SI — 18 — R		L7
				VIBR — TO CAD 17 OR 18		
				R-BL-W IL SE8 — 8 — AB		SL8
				BRIV — TO CAD 17 OR 18		
				R-O-W TRK PTCH UNIT PG8A — 19 — V		L8
				VIS — TO CAD 17 OR 18		
				R-G-W IU SE9 — 9 — AB		SL9
				SIV — TO CAD 17 OR 18		
				R-BR-W TRK PTCH UNIT PG9A — 11 — V		L9

DRAWING ISSUE

15D	JEF M.R.	TEB
16B	TVG JH POB	NY NO. A HW
21D	MW JFF RT	
23B	GTP SMK MPJ	

PMJD

(Q,Y) PART OF CAD 13 (MFR DISC.)

SUPPLEMENTARY HOUSE & FEEDER CABLE FROM MODULES 1 AND 2 FOR USE WHEN MANUAL ATTENDANTS SWITCHBOARD IS PROVIDED
(INTERNALLY MOUNTED AUXILIARY TRUNK RELAY UNIT)

SHEET NOTES:
1. OPTION "Y" IS SHOWN ON SD-65741-01.

23

PBX SYSTEMS
NO. 756A
PBX CABLING DIAGRAM

BELL TELEPHONE LABORATORIES INCORPORATED

DWG SIZE 6S

SD-65746-01-G65

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SD-65746-01-G65

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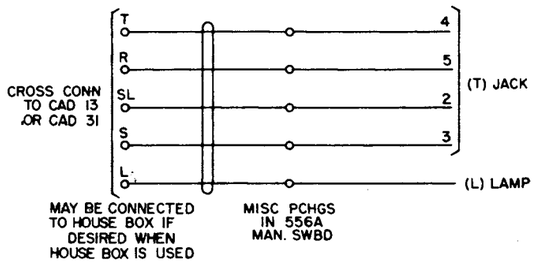
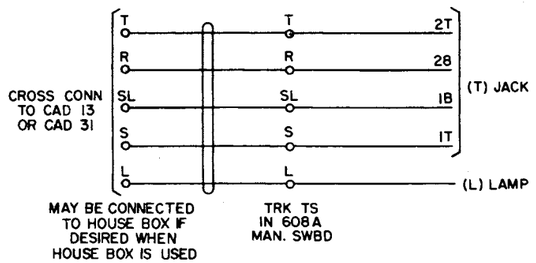
③CAD 17

FOR CENTRAL OFFICE TRUNK APPEARANCE
AT 556A MANUAL SWITCHBOARD
(SD-65752-01 FS 5)



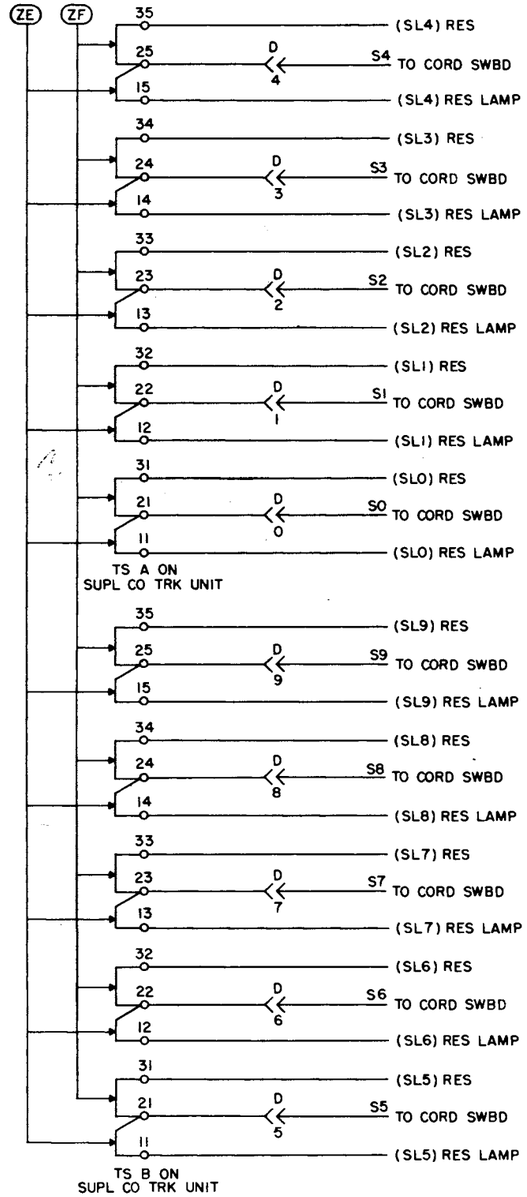
④CAD 18

FOR CENTRAL OFFICE TRUNK APPEARANCE
AT 608A CORD SWITCHBOARD
(SD-65752-01 FS 5)



CAD 19 (MFR DISC.)

CENTRAL OFFICE TRUNK OPTIONS
(SD-65752-01)
(INTERNALLY MOUNTED AUX TRK REL UNIT)



DRAWING ISSUE		
15D	JCF CLC	TEB
21D	SAK JFF KFJ	
26D	DWY GFH GFH	HW

26

NO. 756A PBX CABLING DIAGRAM ②	SD-65746-01-G66
BELL TELEPHONE LABORATORIES INCORPORATED	DWG SIZE 6S

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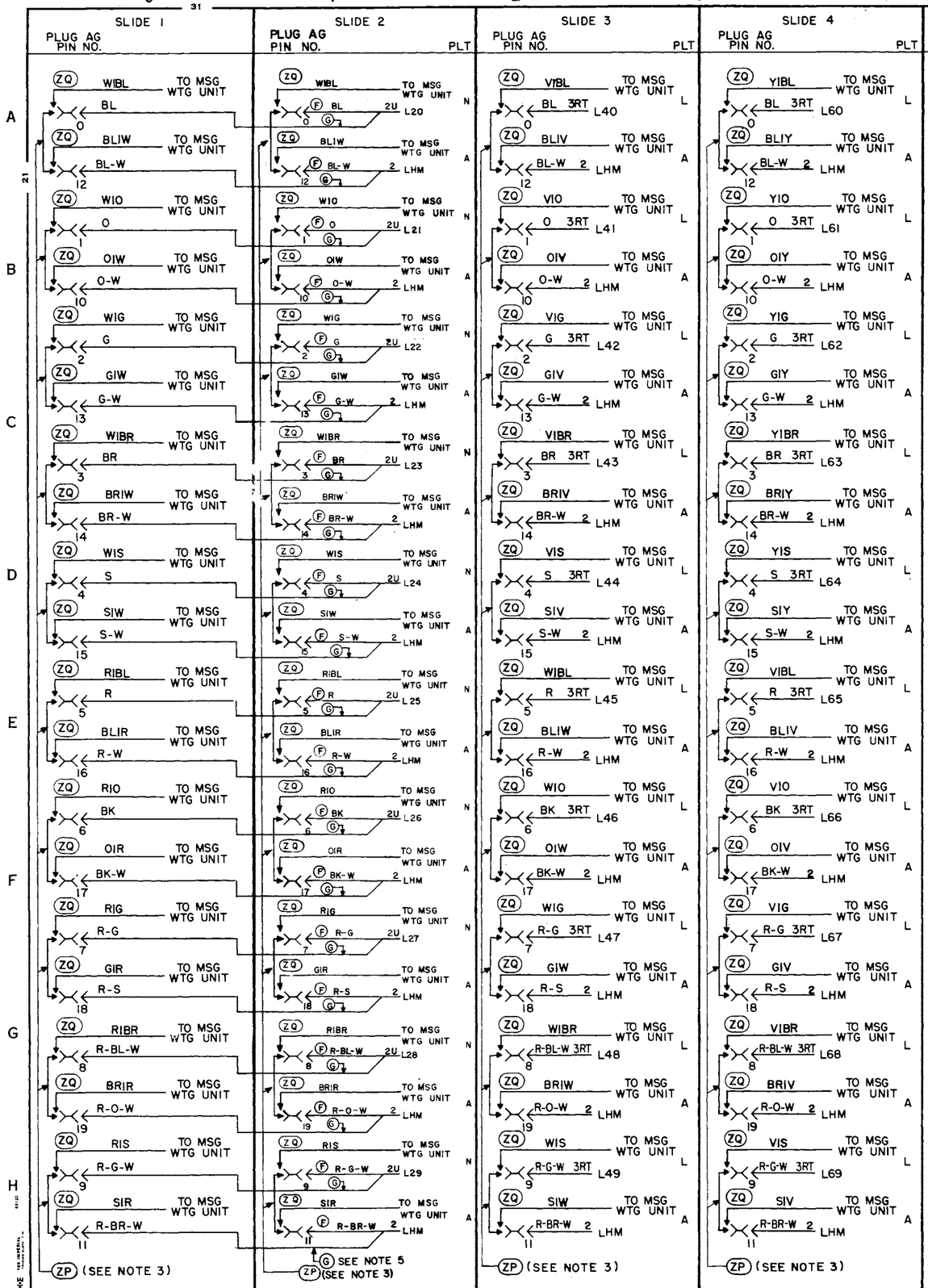

PART OF CAD 20

SUPPLEMENTARY HOUSE & FEEDER CABLE FOR USE WHEN MESSAGE WAITING SERVICE IS PROVIDED

SHEET NOTES:

1. ALL LEADS MARKED "TO MSG WTG UNIT" ARE RUN DIRECTLY TO THE MESSAGE WAITING POWER SUPPLY, INTERRUPTER AND NETWORK UNIT. CABLE IS THEN RUN FROM THIS UNIT VIA THE HOUSE BOX TO THE MESSAGE WAITING KEY AND LAMP CONSOLE. SEE SD-65784-01 CADS 1 & 4.
2. LINES ARE ASSIGNED TO CABLE PAIRS AS FOLLOWS:

PLUGS	CABLE PAIRS	STA LINES
1AG	1-10 (BL BINDER)	20-29
2AG	21-25 (BL BINDER)	40-44
3AG	26-30 (OR. BINDER)	45-49
4AG	41-50 (OR. BINDER)	60-79

3. OPTION "ZP" CONSISTS OF A KS-16344 PLUG ASSEMBLY STRAPPED AS SHOWN.
4. OPTIONS "ZP" & "ZQ" ARE SHOWN ON SD-65741-01.
5. OPTION "G" IS RATED M.D.

DRAWING ISSUE
15D JEF M.R. TE.
16B TVG JH POB
21D GAP JFF KFJ
28D EDL GAH

PMJD

PBX SYSTEMS
NO. 756A
PBX CABLING DIAGRAM

BELL TELEPHONE LABORATORIES INCORPORATED

SD-65746-01-G67

DWG SIZE 6S

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SD-65746-01-G67

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SLIDE 1 PLUG AH PIN NO.	SLIDE 2 PLUG AH PIN NO.	PLT	SLIDE 3 PLUG AH PIN NO.	PLT	SLIDE 4 PLUG AH PIN NO.	PLT	SLIDE 5	SLIDE 6	LEAD DESIG
(ZQ) BKIBL TO MSG WTG UNIT	(ZQ) BKIBL TO MSG WTG UNIT	L	(ZQ) RIBL TO MSG WTG UNIT	L	(ZQ) WIBL TO MSG WTG UNIT	L			L
0 BL	(F) BL 3RT L30		0 BL 3RT L50		0 BL 3RT L70				
(ZQ) BLIBK TO MSG WTG UNIT	(ZQ) BLIBK TO MSG WTG UNIT	F	(ZQ) BLIR TO MSG WTG UNIT	F	(ZQ) BLIW TO MSG WTG UNIT	F			R
12 BL-W	(F) BL-W 2 LHM		12 BL-W 2 LHM		12 BL-W 2 LHM				
(ZQ) BKIO TO MSG WTG UNIT	(ZQ) BKIO TO MSG WTG UNIT	L	(ZQ) RIO TO MSG WTG UNIT	L	(ZQ) WIO TO MSG WTG UNIT	L			L
1 O	(F) O 3RT L31		1 O 3RT L51		1 O 3RT L71				
(ZQ) OIBK TO MSG WTG UNIT	(ZQ) OIBK TO MSG WTG UNIT	F	(ZQ) OIR TO MSG WTG UNIT	F	(ZQ) OIW TO MSG WTG UNIT	F			R
10 O-W	(F) O-W 2 LHM		10 O-W 2 LHM		10 O-W 2 LHM				
(ZQ) BKIG TO MSG WTG UNIT	(ZQ) BKIG TO MSG WTG UNIT	L	(ZQ) RIG TO MSG WTG UNIT	L	(ZQ) WIG TO MSG WTG UNIT	L			L
2 G	(F) G 3RT L32		2 G 3RT L52		2 G 3RT L72				
(ZQ) GIBK TO MSG WTG UNIT	(ZQ) GIBK TO MSG WTG UNIT	F	(ZQ) GIR TO MSG WTG UNIT	F	(ZQ) GIW TO MSG WTG UNIT	F			R
13 G-W	(F) G-W 2 LHM		13 G-W 2 LHM		13 G-W 2 LHM				
(ZQ) BKIBR TO MSG WTG UNIT	(ZQ) BKIBR TO MSG WTG UNIT	L	(ZQ) RIBR TO MSG WTG UNIT	L	(ZQ) WIBR TO MSG WTG UNIT	L			L
3 BR	(F) BR 3RT L33		3 BR 3RT L53		3 BR 3RT L73				
(ZQ) BRIBK TO MSG WTG UNIT	(ZQ) BRIBK TO MSG WTG UNIT	F	(ZQ) BRIR TO MSG WTG UNIT	F	(ZQ) BRIW TO MSG WTG UNIT	F			R
14 BR-W	(F) BR-W 2 LHM		14 BR-W 2 LHM		14 BR-W 2 LHM				
(ZQ) BKIS TO MSG WTG UNIT	(ZQ) BKIS TO MSG WTG UNIT	L	(ZQ) RIS TO MSG WTG UNIT	L	(ZQ) WIS TO MSG WTG UNIT	L			L
4 S	(F) S 3RT L34		4 S 3RT L54		4 S 3RT L74				
(ZQ) SIBK TO MSG WTG UNIT	(ZQ) SIBK TO MSG WTG UNIT	F	(ZQ) SIR TO MSG WTG UNIT	F	(ZQ) SIW TO MSG WTG UNIT	F			R
15 S-W	(F) S-W 2 LHM		15 S-W 2 LHM		15 S-W 2 LHM				
(ZQ) YIBL TO MSG WTG UNIT	(ZQ) YIBL TO MSG WTG UNIT	L	(ZQ) BKIBL TO MSG WTG UNIT	L	(ZQ) RIBL TO MSG WTG UNIT	L			L
5 R	(F) R 3RT L35		5 R 3RT L55		5 R 3RT L75				
(ZQ) BLIY TO MSG WTG UNIT	(ZQ) BLIY TO MSG WTG UNIT	F	(ZQ) BLIBK TO MSG WTG UNIT	F	(ZQ) BLIR TO MSG WTG UNIT	F			R
16 R-W	(F) R-W 2 LHM		16 R-W 2 LHM		16 R-W 2 LHM				
(ZQ) YIO TO MSG WTG UNIT	(ZQ) YIO TO MSG WTG UNIT	L	(ZQ) BKIO TO MSG WTG UNIT	L	(ZQ) RIO TO MSG WTG UNIT	L			L
6 BK	(F) BK 3RT L36		6 BK 3RT L56		6 BK 3RT L76				
(ZQ) OIY TO MSG WTG UNIT	(ZQ) OIY TO MSG WTG UNIT	F	(ZQ) OIBK TO MSG WTG UNIT	F	(ZQ) OIR TO MSG WTG UNIT	F			R
17 BK-W	(F) BK-W 2 LHM		17 BK-W 2 LHM		17 BK-W 2 LHM				
(ZQ) YIG TO MSG WTG UNIT	(ZQ) YIG TO MSG WTG UNIT	L	(ZQ) BKIG TO MSG WTG UNIT	L	(ZQ) RIG TO MSG WTG UNIT	L			L
7 R-G	(F) R-G 3RT L37		7 R-G 3RT L57		7 R-G 3RT L77				
(ZQ) GIY TO MSG WTG UNIT	(ZQ) GIY TO MSG WTG UNIT	F	(ZQ) GIBK TO MSG WTG UNIT	F	(ZQ) GIR TO MSG WTG UNIT	F			R
18 R-S	(F) R-S 2 LHM		18 R-S 2 LHM		18 R-S 2 LHM				
(ZQ) YIBR TO MSG WTG UNIT	(ZQ) YIBR TO MSG WTG UNIT	L	(ZQ) BKIBR TO MSG WTG UNIT	L	(ZQ) RIBR TO MSG WTG UNIT	L			L
8 R-BL-W	(F) R-BL-W 3RT L38		8 R-BL-W 3RT L58		8 R-BL-W 3RT L78				
(ZQ) BRIY TO MSG WTG UNIT	(ZQ) BRIY TO MSG WTG UNIT	F	(ZQ) BRIBK TO MSG WTG UNIT	F	(ZQ) BRIR TO MSG WTG UNIT	F			R
19 R-O-W	(F) R-O-W 2 LHM		19 R-O-W 2 LHM		19 R-O-W 2 LHM				
(ZQ) YIS TO MSG WTG UNIT	(ZQ) YIS TO MSG WTG UNIT	L	(ZQ) BKIS TO MSG WTG UNIT	L	(ZQ) RIS TO MSG WTG UNIT	L			L
9 R-G-W	(F) R-G-W 3RT L39		9 R-G-W 3RT L59		9 R-G-W 3RT L79				
(ZQ) SIY TO MSG WTG UNIT	(ZQ) SIY TO MSG WTG UNIT	F	(ZQ) SIBK TO MSG WTG UNIT	F	(ZQ) SIR TO MSG WTG UNIT	F			R
11 R-BR-W	(F) R-BR-W 2 LHM		11 R-BR-W 2 LHM		11 R-BR-W 2 LHM				
(ZP) (SEE NOTE 3)	(G) SEE NOTE 5 (ZP) (SEE NOTE 3)		(ZP) (SEE NOTE 3)		(ZP) (SEE NOTE 3)				

PART OF CAD 20

SUPPLEMENTARY HOUSE & FEEDER CABLE FOR USE WHEN MESSAGE WAITING SERVICE IS PROVIDED

DRAWING ISSUE	
15D	HEF AR TEB
16B	TVG JH POB
21D	RKU JFF KFJ
28D	Rev. GFH

SHEET NOTES:

1. ALL LEADS MARKED "TO MSG WTG UNIT" ARE RUN DIRECTLY TO THE MESSAGE WAITING POWER SUPPLY, INTERRUPTER AND NETWORK UNIT. CABLE IS THEN RUN FROM THIS UNIT VIA THE HOUSE BOX TO THE MESSAGE WAITING KEY AND LAMP CONSOLE. SEE SD-65784-01 CADS 1 AND 4.
2. LINES ARE ASSIGNED TO CABLE PAIRS AS FOLLOWS:

PLUGS	CABLE PAIRS	STA LINES
1AH	11-20 (BL BINDER)	30-39
3AH	31-40 (OR. BINDER)	50-59
4AH	51-60 (G BINDER)	70-79

3. OPTION "ZP" CONSISTS OF A KS-16344 PLUG ASSEMBLY STRAPPED AS SHOWN.
4. OPTIONS "ZP" & "ZQ" ARE SHOWN ON SD-65741-01.
5. OPTION "G" IS RATED M.D.

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PBX SYSTEM
NO. 756A
PBX CABLING DIAGRAM

BELL TELEPHONE LABORATORIES INCORPORATED

SD-65746-01-G68

DWG SIZE 6S

PRINTED IN U.S.A.

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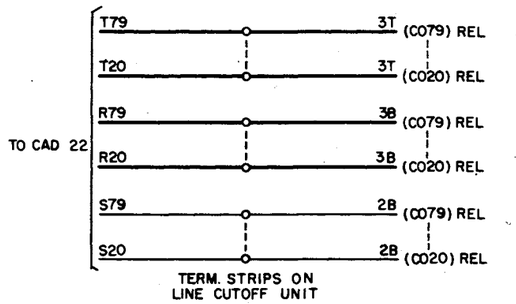
CAD 21 (MFR DISC.)

FOR USE WITH 608A PBX
LINE CUTOFF UNIT
(SD-65741-01 FS 1 & 26)

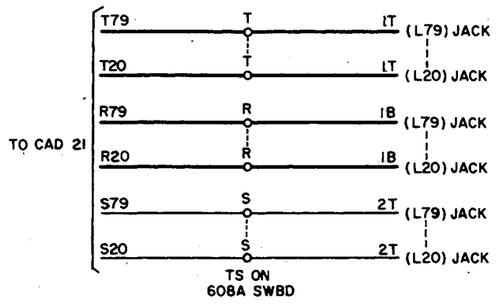


TERM. STRIPS ON
LINE CUTOFF UNIT

SEE TABLE A
FOR TERM. STRIP AND
TERM. NUMBER ASSIGNED

CAD 22 (MFR DISC.)

FOR USE WITH 608A PBX
(SD-65741-01 FS 1 & 26)



TS ON
608A SWBD

TABLE A (MFR DISC.)

TERM. STRIPS ON LINE CUTOFF UNIT									LEAD DESIG				
TS	A	B	C	D	E	F	G	H	T	R	S	SL	
LINE NO.	20	28	36	44	50	58	66	74	48	38	28	18	TERM. NO. ON TS A-H
	21	29	37	45	51	59	67	75	47	37	27	17	
	22	30	38	46	52	60	68	76	46	36	26	16	
	23	31	39	47	53	61	69	77	45	35	25	15	
	24	32	40	48	54	62	70	78	44	34	24	14	
	25	33	41	49	55	63	71	79	43	33	23	13	
	26	34	42		56	64	72		42	32	22	12	
	27	35	43		57	65	73		41	31	21	11	

DRAWING ISSUE		
15D	JEK MK	TES
16B	TVG JH POB	
26D	DWY SAK GFH	
42B	BMW PJS LDJ	

42

PBX CABLING DIAGRAM (2) SD-65746-01-G69

BELL TELEPHONE LABORATORIES INCORPORATED — DWG SIZE 6S — PRINTED IN U.S.A.

SD-65746-01-G69

TCI Library www.telephonecollectors.info

SLIDE 1	SLIDE 2	SLIDE 3	SLIDE 4	SLIDE 5	SLIDE 6 PLUG S PIN NO.	PLT	LEAD DESIG
					WIBL — TO DSS AUX REL UNIT A — BL 10 STR 0	T0	REG 0
					BLIW — TO DSS AUX REL UNIT A — BL-W 2 STR 12	T2	
					WIO — TO DSS AUX REL UNIT A — O 3 STR 1	T3	
					OIW — TO DSS AUX REL UNIT A — O-W 4 STR 10	T4	
					WIG — TO DSS AUX REL UNIT A — G 5 STR 2	T5	
					GIW — TO DSS AUX REL UNIT A — G-W 6 STR 13	T6	
					WIBR — TO DSS AUX REL UNIT A — BR 7 STR 3	T7	
					BRIW — TO DSS AUX REL UNIT A — BR-W 8 STR 14	T8	
					WIS — TO DSS AUX REL UNIT A — S 9 STR 4	T9	
					SIW — TO DSS AUX REL UNIT G — S-W 8 AC 15	U0	
					RIBL — TO DSS AUX REL UNIT G — R 9 AC 5	U1	
					BLIR — TO DSS AUX REL UNIT G — R-W 10 AC 16	U2	
					RIO — TO DSS AUX REL UNIT G — BK 11 AC 6	U3	
					OIR — TO DSS AUX REL UNIT G — BK-W 12 AC 17	U4	
					RIG — TO DSS AUX REL UNIT G — R-G 13 AC 7	U5	
					GIR — TO DSS AUX REL UNIT G — R-S 14 AC 18	U6	
					RIBR — TO DSS AUX REL UNIT G — R-BL-W 15 AC 8	U7	
					BRIR — TO DSS AUX REL UNIT G — R-O-W 16 AC 19	U8	
					RIS — TO DSS AUX REL UNIT G — R-G-W 17 AC 9	U9	
					SIR — R-BR-W 11	SPARE	

PART OF CAD 23

SUPPLEMENTARY HOUSE & FEEDER CABLE FOR USE WHEN DIRECT STATION SELECTION BY STATIONS IS PROVIDED (CABLE PAIRS 1-10 BL BINDER)

DRAWING ISSUE

1	TVG
168	JH
	POB
	RKU
210	JFF
	KFJ

21

PBX SYSTEMS
NO. 756A
PBX CABLING DIAGRAM

BELL TELEPHONE LABORATORIES INCORPORATED

DWG SIZE 6S

SD-65746-01-G70

PRINTED IN U.S.A.

SD-65746-01-G70

TCI Library www.telephonecollectors.info

SLIDE 1	SLIDE 2	SLIDE 3	SLIDE 4	SLIDE 5	SLIDE 6 PLUG T PIN NO. PLT	LEAD DESIG
					BKIBL — TO DSS AUX REL UNIT D; BL 10 STR 0	TO
					BLIBK — TO DSS AUX REL UNIT D; BL-W 2 STR 12	T2
					BKIO — TO DSS AUX REL UNIT D; O 3 STR 1	T3
					OIBK — TO DSS AUX REL UNIT D; O-W 4 STR 10	T4
					BKIG — TO DSS AUX REL UNIT D; G 5 STR 2	T5
					GIBK — TO DSS AUX REL UNIT D; G-W 6 STR 13	T6
					BKIBR — TO DSS AUX REL UNIT D; BR 7 STR 3	T7
					BRIBK — TO DSS AUX REL UNIT D; BR-W 8 STR 14	T8
					BKIS — TO DSS AUX REL UNIT D; S 9 STR 4	T9
					SIBK — TO DSS AUX REL UNIT H; S-W 8 AC 15	UO (REG 1)
					YIBL — TO DSS AUX REL UNIT H; R 9 AC 5	U1
					BLIY — TO DSS AUX REL UNIT H; R-W 10 AC 16	U2
					YIO — TO DSS AUX REL UNIT H; BK 11 AC 6	U3
					OIY — TO DSS AUX REL UNIT H; BK-W 12 AC 17	U4
					YIG — TO DSS AUX REL UNIT H; R-G 13 AC 7	U5
					GIY — TO DSS AUX REL UNIT H; R-S 14 AC 18	U6
					YIBR — TO DSS AUX REL UNIT H; R-BL-W 15 AC 8	U7
					BRIY — TO DSS AUX REL UNIT H; R-O-W 16 AC 19	U8
					YIS — TO DSS AUX REL UNIT H; R-G-W 17 AC 9	U9
					SIY — R-BR-W 11	SPARE

PART OF CAD 23

SUPPLEMENTARY HOUSE & FEEDER CABLE FOR USE WHEN DIRECT STATION SELECTION BY STATIONS IS PROVIDED (CABLE PAIRS 11-20 BL BINDER)

DRAWING ISSUE

16B	TVG	
	JH	
	POB	
21D	RKJ	
	JFF	
	KFJ	

HW

21

PBX SYSTEMS
NO. 756A
PBX CABLING DIAGRAM

BELL TELEPHONE LABORATORIES INCORPORATED

DWG SIZE 6S

SD-65746-01-G71

SD-65746-01-G71

TCI Library www.telephonecollectors.info

SLIDE 1	SLIDE 2	SLIDE 3	SLIDE 4	SLIDE 5	SLIDE 6 PLUG U PIN NO.	PLT	LEAD DESIG
					VIBL	TO DSS AUX REL UNIT B	RG
					BL 9B	RT 0	
					BLIV	TO DSS AUX REL UNIT B	RO
					BL-W	DP REG TS 31 12	
					VIO	TO DSS AUX REL UNIT B	RI
					O	DP REG TS 32 1	
					OIV	TO DSS AUX REL UNIT B	RC
					O-W	DP REG TS 34 10	REG 0
					VIG	TO DSS AUX REL UNIT C	RB
					G IL	RA 2	
					GIV	TO DSS AUX REL UNIT A	UDI
					G-W 2M	UD 13	
					VIBR	TO DSS AUX REL UNIT A	UD2
					BR 2	UD 3	
					BRIV	TO DSS AUX REL UNIT C	PR
					BR-W 12	P1 14	
					VIS	TO DSS AUX REL UNIT	GRD(DSS)
					S GRD	SEE NOTE 1 4	
					SIV	TO DSS AUX REL UNIT	-48(DSS)
					S-W -48	SEE NOTE 1 15	
					WIBL	TO DSS AUX REL UNIT	+48
					R +48	SEE NOTE 1 5	
					BLIW		SPARE
					R-W	16	
					WIO	TO DSS AUX REL UNIT E	RG
					BK 9B	RT 6	
					OIW	TO DSS AUX REL UNIT E	RO
					BK-W	DP REG TS 31 17	
					WIG	TO DSS AUX REL UNIT E	RI
					R-G	DP REG TS 32 7	
					GIW	TO DSS AUX REL UNIT E	RC
					R-S	DP REG TS 34 18	REG 1
					WIBR	TO DSS AUX REL UNIT F	RB
					R-BL-W IL	RA 8	
					BRIW	TO DSS AUX REL UNIT D	UDI
					R-O-W 2M	UD 19	
					WIS	TO DSS AUX REL UNIT D	UD2
					R-G-W 2	UD 9	
					SIW	TO DSS AUX REL UNIT F	PR
					R-BR-W 12	P1 11	

PART OF CAD 23

SUPPLEMENTARY HOUSE & FEEDER CABLE FOR USE WHEN DIRECT STATION SELECTION BY STATIONS IS PROVIDED
(CABLE PAIRS 21-25 BL BINDER
CABLE PAIRS 26-30 OR BINDER)

SHEET NOTES:
1. CONNECT TO LEAD OF SAME DESIGNATION ON PLUG (M) OF SLIDE 6. SEE SHEET G48.

DRAWING ISSUE
16B TVC JH POI
21D RKI JFF KFJ
28D

28

PBX SYSTEMS
NO. 756A
PBX CABLING DIAGRAM
2
SD-65746-01-G72
BELL TELEPHONE LABORATORIES INCORPORATED
DWG SIZE 6S
PRINTED IN U.S.A.

TCI Library www.telephonecollectors.info

SLIDE 1 PLUG AE PIN NO.	PLT	SLIDE 2 PLUG AE PIN NO.	PLT	SLIDE 3	SLIDE 4	SLIDE 5	SLIDE 6	LEAD DESIG
WIBL BL 0	TO STA M.B. KEY & LP	WIBL F BL 0 G	TO STA M.B. KEY & LP M LINE TS S(LINE 20)					S
BLIW BL-W 12	TO STA M.B. KEY & LP	BLIW F BL-W 12 G	TO STA M.B. KEY & LP M LINE TS SIA (LINE 20)					SI
WIO O 1	TO STA M.B. KEY & LP	WIO F O 1 G	TO STA M.B. KEY & LP N 1U IN20					L2 BAT.
OIW O-W 10	TO STA M.B. KEY & LP	OIW F O-W 10 G	TO STA M.B. KEY & LP N 12M IN20					L2 GRD
WIG G 2	TO STA M.B. KEY & LP	WIG F G 2 G	TO STA M.B. KEY & LP M LINE TS S(LINE 30)					S
GIW G-W 13	TO STA M.B. KEY & LP	GIW F G-W 13 G	TO STA M.B. KEY & LP M LINE TS SI(LINE 30)					SI
WIBR BR 3	TO STA M.B. KEY & LP	WIBR F BR 3 G	TO STA M.B. KEY & LP L LTI L30					L3 BAT.
BRIW BR-W 14	TO STA M.B. KEY & LP	BRIW F BR-W 14 G	TO STA M.B. KEY & LP L 2T L30 SEE NOTE 3					L3 GRD
WIS S 4		WIS S 4						
SIW S-W 15		SIW S-W 15						
RIBL R 5		RIBL R 5						
BLIR R-W 16		BLIR R-W 16						
RIO BK 6		RIO BK 6						
OIR BK-W 17		OIR BK-W 17						
RIG R-G 7		RIG R-G 7						
GIR R-S 18		GIR R-S 18						
RIBR R-BL-W 8		RIBR R-BL-W 8						
BRIR R-O-W 19		BRIR R-O-W 19						
RIS R-G-W 9		RIS R-G-W 9						
SIR R-BR-W 11		SIR R-BR-W 11						
								SPARE

21

PART OF CAD 24

SUPPLEMENTARY HOUSE & FEEDER CABLE FOR DIRECT STATION SELECTION BY ATTENDANT AND SINGLE DIGIT DIALING
(SEE NOTE 2)

SHEET NOTES:

1. LINES ARE ASSIGNED TO CABLE PAIRS 1-10 BL BINDER.
2. WHEN PREWIRED CABLE TERMINAL SECTION (J58829M) IS PROVIDED, HOUSE & FEEDER CABLE LEADS FOR DSS BY ATTENDANT AND SDD ARE SHOWN ON CAD 34.
3. OPTION "G" IS RATED M.D.

DRAWING ISSUE

16B	TVG	
	JH	
	POB	
21D	RKJ	
	JFF	
	KFJ	
24D	SAM	
	GFH	
	Roz	
28D	GPW	

28

PBX SYSTEMS
NO. 756A
PBX CABLING DIAGRAM (2)

SD-65746-01-G73

BELL TELEPHONE LABORATORIES INCORPORATED — DWG SIZE 6S — PRINTED IN U.S.A.

SD-65746-01-G73

TCI Library www.telephonecollectors.info

SLIDE 1	SLIDE 2	SLIDE 3	SLIDE 4	SLIDE 5	SLIDE 6	LEAD DESIG
		PLUG AE PIN NO. PLT				
		VIBL — TO STA M.B. KEY & LP M BL — LINE TS (LINE 40) 0				S
		BLIV — TO STA M.B. KEY & LP M BL-W — LINE TS (LINE 40) 12				SI
		VIO — TO STA M.B. KEY & LP L O LTI — L40 1				L4 BAT.
		OIV — TO STA M.B. KEY & LP L O-W 2T — L40 10				L4 GRD
		VIG — TO STA M.B. KEY & LP M G — LINE TS (LINE 50) 2				S
		GIV — TO STA M.B. KEY & LP M G-W — LINE TS (LINE 50) 13				SI
		VIBR — TO STA M.B. KEY & LP L BR LTI — L50 3				L5 BAT.
		BRIV — TO STA M.B. KEY & LP L BR-W 2T — L50 14				L5 GRD
		VIS S 4				
		SIV S-W 15				
		WIBL R 5				
		BLIW R-W 16				
		WIO BK 6				
		OIW BK-W 17				
		WIG R-G 7				SPARE
		GIW R-S 18				
		WIBR R-BL-W 8				
		BRIW R-O-W 19				
		WIS R-G-W 9				
		SIW R-BR-W 11				

PART OF CAD 24

SUPPLEMENTARY HOUSE & FEEDER CABLE FOR DIRECT STATION SELECTION BY ATTENDANT AND SINGLE DIGIT DIALING

(SEE NOTE 2)

SHEET NOTES:

1. LINES ARE ASSIGNED TO CABLE PAIRS 21-25 BL BINDER AND 26-30 OR. BINDER.
2. WHEN PREWIRED CABLE TERMINAL SECTION (J58829AM) IS PROVIDED, HOUSE & FEEDER CABLE LEADS FOR DSS BY ATTENDANT AND SDD ARE SHOWN ON CAD 34.

DRAWING ISSUE

16.B	TWG	
	JW	
	POB	
	WMJ	
21D	JFF	
	KF	
24D	SAK	
	DFH	

24

PBX SYSTEMS
NO. 756A
PBX CABLING DIAGRAM (2)

BELL TELEPHONE LABORATORIES INCORPORATED

SIZE 6S

SD-65746-01-G74

PRINTED IN U.S.A.

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SLIDE 1	SLIDE 2	SLIDE 3	SLIDE 4 (PLUG AE PIN NO. / PLT)	SLIDE 5	SLIDE 6	LEAD DESIG
			YIBL — TO STA M.B. KEY & LP M; BL — 0 S			S
			BLIY (LINE 60) — TO STA M.B. KEY & LP M; BL-W — 12 S1			S1
			YIO (LINE 60) — TO STA M.B. KEY & LP L; O LTI — 1 L60			L6 BAT.
			OIY — TO STA M.B. KEY & LP L; O-W 2T — 10 L60			L6 GRD
			YIG — TO STA M.B. KEY & LP M; G — 2 S			S
			GIY (LINE 70) — TO STA M.B. KEY & LP M; G-W — 13 S1			S1
			YIBR (LINE 70) — TO STA M.B. KEY & LP L; BR LTI — 3 L70			L7 BAT.
			BRIY — TO STA M.B. KEY & LP L; BR-W 2T — 14 L70			L7 GRD
			YIS — S — 4			
			SIY — S-W — 15			
			VIBL — R — 5			
			BLIV — R-W — 16			
			VIG — BK — 6			
			GIV — BK-W — 17			
			VIO — R-G — 7			SPARE
			OIV — R-S — 18			
			VIBR — R-BL-W — 8			
			BRIV — R-O-W — 19			
			VIS — R-G-W — 9			
			SIV — R-BR-W — 11			

PART OF CAD 24

SUPPLEMENTARY HOUSE & FEEDER CABLE FOR DIRECT STATION SELECTION BY ATTENDANT AND SINGLE DIGIT DIALING

(SEE NOTE 2)

DRAWING ISSUE

16B	TVG	
	JH	
	POB	
21D	RKJ	
	JFF	
	KFJ	
24H	-	
	SHK	
	GFH	

SHEET NOTES:

1. LINES ARE ASSIGNED TO CABLE PAIRS 41-50 OR BINDER.
2. WHEN PREWIRED CABLE TERMINAL SECTION (J58829AM) IS PROVIDED, HOUSE & FEEDER CABLE LEADS FOR DSS BY ATTENDANT AND SDD ARE SHOWN ON CAD 34.

24

PBX SYSTEMS
NO. 756A
PBX CABLING DIAGRAM

SD-65746-01-G75

BELL TELEPHONE LABORATORIES INCORPORATED — DRAWING SIZE 6S

SD-65746-01-G75

TCI Library www.telephonecollectors.info

SLIDE 1 PLUG AF PIN NO.	PLT	SLIDE 2 PLUG AF PIN NO.	PLT	SLIDE 3 PLUG AF PIN NO.	PLT	SLIDE 4 PLUG AF PIN NO.	PLT	SLIDE 5	SLIDE 6	LEAD DESIG
BKIBL TO ATT POS BL 0		BKIBL TO ATT POS F BL 5 G LHM 20	A	RIBL TO ATT POS BL 5 0 LHM40	A	WIBL TO ATT POS BL 5 0 LHM60	A			BL
BLIBK TO ATT POS BL-W 12		BLIBK TO ATT POS F BL-W 5 G LHM 21	A	BLIR TO ATT POS BL-W 5 12 LHM41	A	BLIW TO ATT POS BL-W 5 12 LHM61	A			BL
BKIO TO ATT POS O 1		BKIO TO ATT POS F O 5 G LHM 22	A	RIO TO ATT POS O 5 1 LHM 42	A	WIO TO ATT POS O 5 1 LHM62	A			BL
OIBK TO ATT POS O-W 10		OIBK TO ATT POS F O-W 5 G LHM 23	A	OIR TO ATT POS O-W 5 10 LHM43	A	OIW TO ATT POS O-W 5 10 LHM63	A			BL
BKIG TO ATT POS G 2		BKIG TO ATT POS F G 5 G LHM 24	A	RIG TO ATT POS G 5 2 LHM44	A	WIG TO ATT POS G 5 2 LHM64	A			BL
GIBK TO ATT POS G-W 13		GIBK TO ATT POS F G-W 5 G LHM25	A	GIR TO ATT POS G-W 5 13 LHM45	A	GIW TO ATT POS G-W 5 13 LHM65	A			BL
BKIB TO ATT POS BR 3		BKIB TO ATT POS F BR 5 G LHM26	A	RIBR TO ATT POS BR 5 3 LHM46	A	WIBR TO ATT POS BR 5 3 LHM66	A			BL
BRIBK TO ATT POS BR-W 14		BRIBK TO ATT POS F BR-W 5 G LHM 27	A	BRIR TO ATT POS BR-W 5 14 LHM47	A	BRIW TO ATT POS BR-W 5 14 LHM67	A			BL
BKIS TO ATT POS S 4		BKIS TO ATT POS F S 5 G LHM 28	A	RIS TO ATT POS S 5 4 LHM48	A	WIS TO ATT POS S 5 4 LHM68	A			BL
SIBK TO ATT POS S-W 15		SIBK TO ATT POS F S-W 5 G LHM29	A	SIR TO ATT POS S-W 5 15 LHM49	A	SIW TO ATT POS S-W 5 15 LHM69	A			BL
YIBL TO ATT POS R 5		YIBL TO ATT POS F R 5 G LHM 30	F	BKIBL TO ATT POS R 5 5 LHM50	F	RIBL TO ATT POS R 5 5 LHM70	F			BL
BLIY TO ATT POS R-W 16		BLIY TO ATT POS F R-W 5 G LHM 31	F	BLIBK TO ATT POS R-W 5 16 LHM51	F	BLIR TO ATT POS R-W 5 16 LHM71	F			BL
YIO TO ATT POS BK 6		YIO TO ATT POS F BK 5 G LHM32	F	BKIO TO ATT POS BK 5 6 LHM52	F	RIO TO ATT POS BK 5 6 LHM72	F			BL
OIY TO ATT POS BK-W 17		OIY TO ATT POS F BK-W 5 G LHM 33	F	OIBK TO ATT POS BK-W 5 17 LHM53	F	OIR TO ATT POS BK-W 5 17 LHM73	F			BL
YIG TO ATT POS R-G 7		YIG TO ATT POS F R-G 5 G LHM34	F	BKIG TO ATT POS R-G 5 7 LHM54	F	RIG TO ATT POS R-G 5 7 LHM74	F			BL
GIY TO ATT POS R-S 18		GIY TO ATT POS F R-S 5 G LHM35	F	GIBK TO ATT POS R-S 5 18 LHM55	F	GIR TO ATT POS R-S 5 18 LHM75	F			BL
YIBR TO ATT POS R-BL-W 8		YIBR TO ATT POS F R-BL-W 5 G LHM36	F	BKIBR TO ATT POS R-BL-W 5 8 LHM56	F	RIBR TO ATT POS R-BL-W 5 8 LHM76	F			BL
BRIY TO ATT POS R-O-W 19		BRIY TO ATT POS F R-O-W 5 G LHM 37	F	BRIBK TO ATT POS R-O-W 5 19 LHM57	F	BRIR TO ATT POS R-O-W 5 19 LHM77	F			BL
RIS TO ATT POS R-G-W 9		RIS TO ATT POS F R-G-W 5 G LHM38	F	RIS TO ATT POS R-G-W 5 9 LHM58	F	RIS TO ATT POS R-G-W 5 9 LHM78	F			BL
SIR TO ATT POS R-BR-W 11		SIR TO ATT POS F R-BR-W 5 G LHM 39 SEE NOTE 3	F	SIR TO ATT POS R-BR-W 5 11 LHM59	F	SIR TO ATT POS R-BR-W 5 11 LHM79 ZY	F			BL

PART OF CAD 24

SUPPLEMENTARY HOUSE & FEEDER CABLE FOR DIRECT STATION SELECTION BY ATTENDANT AND SINGLE DIGIT DIALING
(SEE NOTE 2)

SHEET NOTES:

1. LINES ARE ASSIGNED TO CABLE PAIRS AS FOLLOWS:

PLUGS	CABLE PAIRS	STATION LINES
1AF	11-20 (BL BINDER)	20-39
3AF	31-40 (OR. BINDER)	40-59
4AF	51-60 (G BINDER)	60-79

2. WHEN PREWIRED CABLE TERMINAL SECTION (J58829AM) IS PROVIDED, HOUSE & FEEDER CABLE LEADS FOR DSS BY ATTENDANT AND SDD ARE SHOWN ON CAD 34.
3. OPTION "G" IS RATED M.D.

DRAWING ISSUE

16B	TVG JH POB	NY HO HW
21D	GAP JFF KEJ	A
24D	SAK GFH ROZ	
28D	GFH	

28

PBX SYSTEMS
NO. 756A
PBX CABLING DIAGRAM

SD-65746-01-G76

BELL TELEPHONE LABORATORIES INCORPORATED

SIZE 6S

PRINTED IN U.S.A.

TCI Library www.telephonecollectors.info

SLIDE 1	SLIDE 2	SLIDE 3	SLIDE 4	SLIDE 5	SLIDE 6 PLUG AG PIN NO.	PLT	LEAD DESIG
					BKIBL TO ATT POS 1 / BL 1 POS 1 / 0	G	T2
					BLIBK TO ATT POS 1 / BL-W 2 POS 1 / 12	G	T3
					BKIO TO ATT POS 1 / O 3 POS 1 / 1	G	T4
					OIBK TO ATT POS 1 / O-W 4 POS 1 / 10	G	T5
					BKIG TO ATT POS 1 / G 5 POS 1 / 2	G	T6
					GIBK TO ATT POS 1 / G-W 6 POS 1 / 13	G	T7
					BKIBR TO ATT POS 1 / BR 7 POS 1 / 3	G	T8
					BRIBK TO ATT POS 1 / BR-W 8 POS 1 / 14	G	U0
					BKIS TO ATT POS 1 / S 9 POS 1 / 4	G	U1
					SIBK TO ATT POS 1 / S-W 10 POS 1 / 15	G	U2
					YIBL TO ATT POS 1 / R 11 POS 1 / 5	G	U3
					BLIY TO ATT POS 1 / R-W 12 POS 1 / 16	G	U4
					YIO TO ATT POS 1 / BK 13 POS 1 / 6	G	U5
					OIY TO ATT POS 1 / BK-W 14 POS 1 / 17	G	U6
					YIG TO ATT POS 1 / R-G 15 POS 1 / 7	G	U7
					GIY TO ATT POS 1 / R-S 16 POS 1 / 18	G	U8
					YIBR TO ATT POS 1 / R-BL-W 17 POS 1 / 8	G	U9
					BRIY TO ATT POS 1 / R-O-W 18 POS 1 / 19	G	H1
					YIS TO ATT POS 1 / R-G-W 19 POS 1 / 9	G	SG3
					SIY TO ATT POS 1 / R-BR-W 0 POS 1 / 11	G	SG2

PART OF CAD 24

SUPPLEMENTARY HOUSE & FEEDER CABLE FOR DIRECT STATION SELECTION BY ATTENDANT AND SINGLE DIGIT DIALING
(SEE NOTE 2)

DRAWING ISSUE
16B TVG JH POB
21D JFR KEJ
24D SAM GFH HW

SHEET NOTES:

1. LINES ARE ASSIGNED TO CABLE PAIRS 61-70 G BINDER.
2. WHEN PREWIRED CABLE TERMINAL SECTION (J58829AM) IS PROVIDED, HOUSE & FEEDER CABLE LEADS FOR DSS BY ATTENDANT AND SDD ARE SHOWN ON CAD 34.

24

PBX SYSTEMS
NO. 756A
PBX CABLING DIAGRAM

SD-65746-01-G77

BELL TELEPHONE LABORATORIES INCORPORATED

6S

D-65746-01-G77

TCI Library www.telephonecollectors.info

SLIDE 1	SLIDE 2	SLIDE 3	SLIDE 4	SLIDE 5	SLIDE 6 PLUG AH PIN NO.	PLT	LEAD DESIG
					VIBL TO ATT POS 2 / BL 1 POS 2 / 0	H	T2
					BLIV TO ATT POS 2 / BL-W 2 POS 2 / 12	H	T3
					VIC TO ATT POS 2 / O 3 POS 2 / 1	H	T4
					OIV TO ATT POS 2 / O-W 4 POS 2 / 10	H	T5
					VIG TO ATT POS 2 / G 5 POS 2 / 2	H	T6
					GIV TO ATT POS 2 / G-W 6 POS 2 / 13	H	T7
					VIBR TO ATT POS 2 / BR 7 POS 2 / 3	H	T8
					BRIV TO ATT POS 2 / BR-W 8 POS 2 / 14	H	U0
					VIS TO ATT POS 2 / S 9 POS 2 / 4	H	U1
					SIV TO ATT POS 2 / S-W 10 POS 2 / 15		U2
					WIBL TO ATT POS 2 / R 11 POS 2 / 5	H	U3
					BLIW TO ATT POS 2 / R-W 12 POS 2 / 16	H	U4
					WIO TO ATT POS 2 / BK 13 POS 2 / 6	H	U5
					OIW TO ATT POS 2 / BK-W 14 POS 2 / 17	H	U6
					WIG TO ATT POS 2 / R-G 15 POS 2 / 7	H	U7
					GIW TO ATT POS 2 / R-S 16 POS 2 / 18	H	U8
					WIBR TO ATT POS 2 / R-BL-W 17 POS 2 / 8	H	U9
					BRIW TO ATT POS 2 / R-O-W 18 POS 2 / 19	H	H1
					WIS TO ATT POS 2 / R-G-W 19 POS 2 / 9	H	SG3
					SIW TO ATT POS 2 / R-BR-W U POS 2 / 11	H	SG2

DRAWING ISSUE

16B	TVG	JW
	POB	
21D	GAP	
	JFF	KFJ
240	SAN	
	SFH	

PART OF CAD 24

SUPPLEMENTARY HOUSE & FEEDER CABLE FOR DIRECT STATION SELECTION BY ATTENDANT AND SINGLE DIGIT DIALING

(SEE NOTE 2)

SHEET NOTES:

1. LINES ARE ASSIGNED TO CABLE PAIRS 71-75 G BINDER AND 76-80 BR BINDER.
2. WHEN PREWIRED CABLE TERMINAL SECTION (J58829AM) IS PROVIDED, HOUSE & FEEDER CABLE LEADS FOR DSS BY ATTENDANT AND SDD ARE SHOWN ON CAD 34.

24

PBX SYSTEMS
NO. 756A
PBX CABLING DIAGRAM

SD-65746-01-678

BELL TELEPHONE LABORATORIES INCORPORATED

DWG SIZE 6S

TCI Library www.telephonecollectors.info

SLIDE 1 PLUG AD PIN NO.	PLT	SLIDE 2	SLIDE 3	SLIDE 4	SLIDE 5	SLIDE 6	LEAD DESIG
A — RIBL TO IST ATT POS; BL IM BCO; 0	X						B20
A — BLIR TO IST ATT POS; BL-W 2M BCO; 12	X						B30
A — RIO TO IST ATT POS; O 3M BCO; 1	X						B40
B — OIR TO IST ATT POS; O-W 4M BCO; 10	X						B50
B — RIG TO IST ATT POS; G 5M BCO; 2	X						B60
C — GIR TO IST ATT POS; G-W 6M BCO; 13	X						B70
C — RIBR TO IST ATT POS; BR 7M BCO; 3	X						B80
D — BR-W; 14							
D — S; 4							
S-W; 15							
E — BKIBL TO 2ND ATT POS; R 8M BCO; 5	X						B20
E — BLIBK TO 2ND ATT POS; R-W 9M BCO; 16	X						B30
BKIO TO 2ND ATT POS; BK IOM BCO; 6	X						B40
F — OIBK TO 2ND ATT POS; BK-W IIM BCO; 17	X						B50
F — BKIG TO 2ND ATT POS; R-G I2M BCO; 7	X						B60
GIBK TO 2ND ATT POS; R-S I3M BCO; 18	X						B70
G — BKIBR TO 2ND ATT POS; R-BL-W I4M BCO; 8	X						B80
R-O-W; 19							
H — R-G-W; 9							
R-BR-W; 11							

DRAWING ISSUE

168	TVG JH POB
21D	GNF JFF KFJ
28D	SAK GFH RGZ GFH

PART OF CAD 24

SUPPLEMENTARY HOUSE & FEEDER CABLE FOR DIRECT STATION SELECTION BY ATTENDANT AND SINGLE DIGIT DIALING

(SEE NOTE 2)

SHEET NOTES:

1. LINES ARE ASSIGNED TO CABLE PAIRS 81-90 BR BINDER.
2. WHEN PREWIRED CABLE TERMINAL SECTION (J58829AM) IS PROVIDED, HOUSE & FEEDER CABLE LEADS FOR DSS BY ATTENDANT AND SDD ARE SHOWN ON CAD 34.

28

PBX SYSTEMS
NO. 756A
PBX CABLING DIAGRAM (2)

SD-65746-01-G79

BELL TELEPHONE LABORATORIES INCORPORATED — DWG SIZE 6S — PRINTED IN U.S.A.

SD-65746-01-G79

TCI Library www.telephonecollectors.info

SLIDE 1	SLIDE 2	SLIDE 3	SLIDE 4	SLIDE 5 PLUG E PIN NO. / PLT	SLIDE 6 PLUG P PIN NO. / PLT	LEAD DESIG	
				BK — U HA (6)	J — 18M POS 1 (6)	G	HA
				BK-W — (ARB)RES (17)	J — 2 SR (17)	E	ARB } REG 1
				R-BL-W — 3M HA (8)	J — 19M AC (8)	G	HAI } REG 0
				R-O-W — 3 HA (19)	J — 4M OT (19)	A	HA2 } REG 0
				R-G-W — 10M HA (9)	J — 19M AC (9)	H	HAI } REG 1
				R-BR-W — 10 HA (11)	J — 4M OT (11)	D	HA2 } REG 1

PART OF CAD 1

INTERSLIDE LEADS FOR 756A PBX

DRAWING ISSUE 16B TYG JH POB

MY 5)

16

PBX SYSTEMS
NO. 756A
PBX CABLING DIAGRAM

SD-65746-01-G80

BELL TELEPHONE LABORATORIES INCORPORATED — DWG SIZE 6S — PRINTED IN U.S.A.

SD-65746-01-G80

TCI Library www.telephonecollectors.info

SLIDE 1	SLIDE 2	SLIDE 3	SLIDE 4	SLIDE 5	SLIDE 6 PLUG AE PIN NO. / PLT	LEAD DESIG
					BKIBL — TO T.T.C. TRANS UNIT A — 1 STR — 0	KP1
					BLIBK — TO T.T.C. TRANS UNIT A — 2 STR — 12	KP2
					BKIO — TO T.T.C. TRANS UNIT A — 3 STR — 1	KP3
					OIBK — TO T.T.C. TRANS UNIT A — 4 STR — 10	KP4
					BKIG — TO T.T.C. TRANS UNIT A — 5 STR — 2	KP5
					GIBK — TO T.T.C. TRANS UNIT A — 6 STR — 13	KP6
					BKIBR — TO T.T.C. TRANS UNIT A — 7 STR — 3	KP7
					BRIBK — TO T.T.C. TRANS UNIT A — 8 STR — 14	KP8
					BKIS — TO T.T.C. TRANS UNIT A — 9 STR — 4	KP9
					SIBK — TO T.T.C. TRANS UNIT A — 10 STR — 15	KPO
					YIBL — TO T.T.C. TRANS UNIT B — U KRA — 5	KRAO
					BLIY — TO T.T.C. TRANS UNIT B — L KRA — 16	RC(-48)
					YIO — TO T.T.C. TRANS UNIT B — 9B RT — 6	RC(GRD)
					OIY — TO T.T.C. TRANS UNIT C — 10M RV — 17	T
					YIG — TO T.T.C. TRANS UNIT C — 6M RV — 7	R
					GIY — TO T.T.C. TRANS UNIT A — 6B DC — 18 (XH) SEE NOTE 1	GN
					— 8	
					— 19	
					— 9	
					— 11	

REG 0

PART OF CAD. 25

SUPPLEMENTARY HOUSE & FEEDER CABLE FOR USE WHEN TOUCH TONE CALLING IS PROVIDED
(PER J99289A TTC REC)

PMJ

NOTES:
1. OPTION XH IS SHOWN ON SD-65742-01,

DRAWING ISSUE		
16B	T.V.G.	JH
19B		POB JJG KG PD
21D	GAP	JFF KFJ
42B		BMM PJS LDJ

NY HO A HW

42

PBX CABLING DIAGRAM — SD-65746-01-G81

BELL TELEPHONE LABORATORIES INCORPORATED — SIZE 6S — PRINTED IN U.S.A.

SD-65746-01-G81

TCI Library www.telephonecollectors.info

SLIDE 1	SLIDE 2	SLIDE 3	SLIDE 4	SLIDE 5	SLIDE 6 PLUG AF PIN NO.	PLT	LEAD DESIG
					WIBL 1 STR 0	TO T.T.C. TRANS UNIT D	KP1
					BLIW 2 STR 12	TO T.T.C. TRANS UNIT D	KP2
					WIO 3 STR 1	TO T.T.C. TRANS UNIT D	KP3
					OIW 4 STR 10	TO T.T.C. TRANS UNIT D	KP4
					WIO 5 STR 2	TO T.T.C. TRANS UNIT D	KP5
					GIW 6 STR 13	TO T.T.C. TRANS UNIT D	KP6
					WIBR 7 STR 3	TO T.T.C. TRANS UNIT D	KP7
					BRIW 8 STR 14	TO T.T.C. TRANS UNIT D	KP8
					WIS 9 STR 4	TO T.T.C. TRANS UNIT D	KP9
					SIW 10 STR 15	TO T.T.C. TRANS UNIT D	KP0
					RIBL U KRA 5	TO T.T.C. TRANS UNIT E	KRA1
					BLIR L KRA 16	TO T.T.C. TRANS UNIT E	RC(-48)
					RIO 9B RT 6	TO T.T.C. TRANS UNIT E	RC(GRD)
					OIR 10M RV 17	TO T.T.C. TRANS UNIT F	T
					RIG 6M RV 7	TO T.T.C. TRANS UNIT F	R
					GIR 6B DC 18 (XH) SEE NOTE 1	TO T.T.C. TRANS UNIT D	GN
					8		
					19		
					9		
					11		

REG 1

PART OF CAD. 25

SUPPLEMENTARY HOUSE & FEEDER CABLE FOR USE WHEN TOUCH TONE CALLING IS PROVIDED

(PER J99289A TTC REC)

NOTES:
1. OPTION XH IS SHOWN ON SD-65742-01.

DRAWING ISSUE		
168	TVG	
	JH	
	POB	
198	JJG	
	RG	
	PD	
210	GAP	
	JFF	
	KFJ	
42	BMW	
	PJS	
	LDJ	

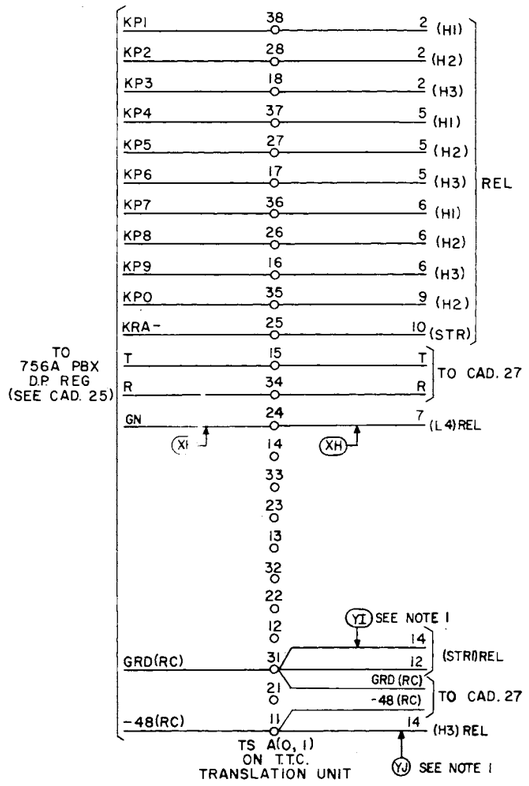
42

PBX CABLING DIAGRAM (2) SD-65746-01-G82

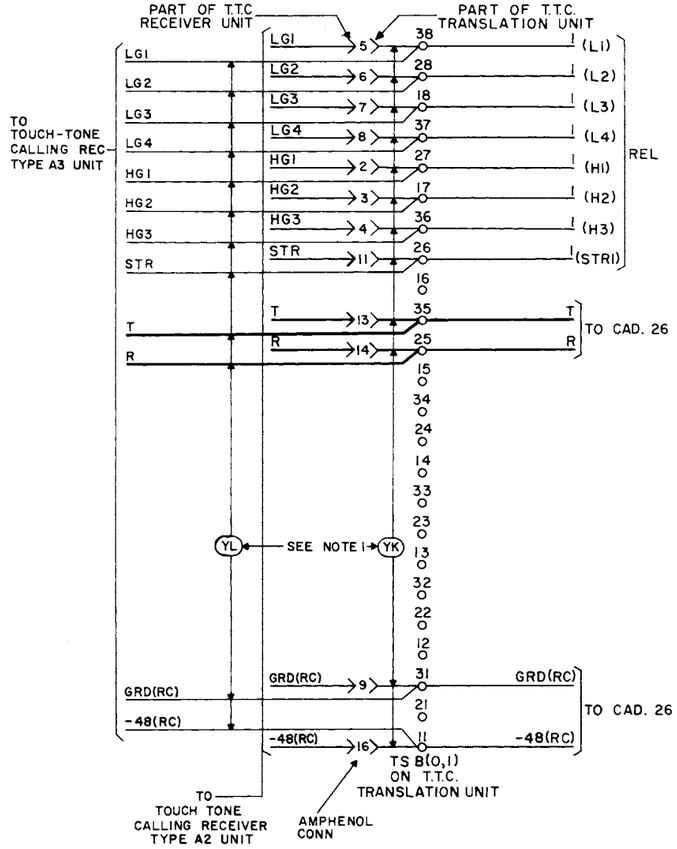
BELL TELEPHONE LABORATORIES INCORPORATED — DWG SIZE 6S — PRINTED IN U.S.A.

TCI Library www.telephonecollectors.info

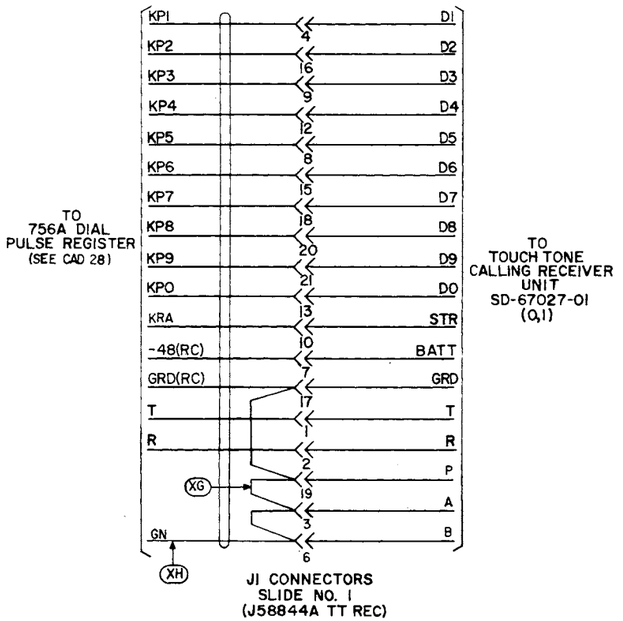
CAD. 26
DIAL PULSE REGISTER
(SD-65742-01)
FOR TOUCH TONE CALLING FEATURE



CAD. 27
DIAL PULSE REGISTER
(SD-65742-01)
FOR TOUCH TONE CALLING FEATURE



CAD. 29
DIAL PULSE REGISTER
(SD-65742-01, FS 10)
FOR TOUCH TONE CALLING FEATURE



NOTES:
1. OPTIONS YI, YJ, YK, YL, AND XH ARE SHOWN ON SD-65742-01.

DRAWING ISSUE

16B	TVG	JH
19B	JJG	PD
24D	—	SAK GFH
42B	BMM	PJS LDJ

SD-65746-01-G83

42

PBX CABLING DIAGRAM (2) SD-65746-01-G83

BELL TELEPHONE LABORATORIES INCORPORATED — DWG SIZE 6S — PRINTED IN U.S.A.

TCI Library www.telephonecollectors.info

SLIDE 1 PLUG AA PIN NO.	SLIDE 2	SLIDE 3	SLIDE 4	SLIDE 5	SLIDE 6 PLUG AE PIN NO.	PLT	LEAD DESIG
BL 4 (0) TO TTC REC 0					1 (0) STR	A	KP1
BL-W 16 (12) TO TTC REC 0					2 (12) STR	A	KP2
O 9 (1) TO TTC REC 0					3 (1) STR	A	KP3
O-W 12 (10) TO TTC REC 0					4 (10) STR	A	KP4
G 8 (2) TO TTC REC 0					5 (2) STR	A	KP5
G-W 15 (13) TO TTC REC 0					6 (13) STR	A	KP6
BR 18 (3) TO TTC REC 0					7 (3) STR	A	KP7
BR-W 20 (14) TO TTC REC 0					8 (14) STR	A	KP8
S 21 (4) TO TTC REC 0					9 (4) STR	A	KP9
S-W 13 (15) TO TTC REC 0					10 (15) STR	A	KP0
R 10 (5) TO TTC REC 0					U (5) KRA	B	KRA
R-W 7 (16) TO TTC REC 0					L (16) KRA	B	RC(-48)
BK 17 (6) TO TTC REC 0					9B (6) RT	B	RC(GRD)
BK-W 1 (17) TO TTC REC 0					10M (17) RV	C	T
R-G 2 (7) TO TTC REC 0					6M (7) RV	C	R
R-S 6 (18) TO TTC REC 0 (XH) SEE NOTE 1					6B (18) DC (XH) SEE NOTE 1	A	GN
(8)					(8)		
(19)					(19)		
(9)					(9)		
(11)					(11)		

REG 0

PART OF CAD 28

SUPPLEMENTARY CROWN CABLE FOR USE WHEN TOUCH TONE CALLING IS PROVIDED PER J58844A RECEIVER (INSIDE PBX)

NOTES:
1. OPTION XH IS SHOWN ON SD-65742-01.

DRAWING ISSUE		
198	JJG	
	KG	
	PD	
340	BCM	
	SAK	
	RHP	
428	BMM	
	PJS	
	LDJ	

42

PBX CABLING DIAGRAM (2) SD-65746-01-G84

BELL TELEPHONE LABORATORIES INCORPORATED — DWG SIZE 6S — PRINTED IN U.S.A.

TCI Library www.telephonecollectors.info

SLIDE 1 PLUG AB PIN NO.	SLIDE 2	SLIDE 3	SLIDE 4	SLIDE 5	SLIDE 6 PLUG AF PIN NO.	PLT	LEAD DESIG
BL 4 TO TTC REC 1 (0)					1 STR (0)	D	KP1
BL-W 16 TO TTC REC 1 (12)					2 STR (12)	D	KP2
O 9 TO TTC REC 1 (1)					3 STR (1)	D	KP3
O-W 12 TO TTC REC 1 (10)					4 STR (10)	D	KP4
G 8 TO TTC REC 1 (2)					5 STR (2)	D	KP5
G-W 15 TO TTC REC 1 (13)					6 STR (13)	D	KP6
BR 18 TO TTC REC 1 (3)					7 STR (3)	D	KP7
BR-W 20 TO TTC REC 1 (14)					8 STR (14)	D	KP8
S 21 TO TTC REC 1 (4)					9 STR (4)	D	KP9
S-W 13 TO TTC REC 1 (15)					10 STR (15)	D	KP0
R 10 TO TTC REC 1 (5)					U KRA (5)	E	KRA
R-W 7 TO TTC REC 1 (16)					L KRA (16)	E	RC(-48)
BK 17 TO TTC REC 1 (6)					9B RT (6)	E	RC(GRD)
BK-W 1 TO TTC REC 1 (17)					10M RV (17)	F	T
R-G 2 TO TTC REC 1 (7)					6M RV (7)	F	R
R-S 6 TO TTC REC 1 (18) (XH) SEE NOTE 1					6B DC (18) (XH) SEE NOTE 1	D	GN
(8)					(8)		
(19)					(19)		
(9)					(9)		
(11)					(11)		

PART OF CAD 28

SUPPLEMENTARY CROWN CABLE FOR USE WHEN TOUCH TONE CALLING IS PROVIDED PER J58844A RECEIVER (INSIDE PBX)

NOTES:
1. OPTION XH IS SHOWN ON SD-65742-01.

DRAWING ISSUE		
19B	JJG	
	KG	
	PD	
34D	EWE	
	SAK	
	RHP	
42B	BMW	
	PJS	
	LDJ	

SD-65746-01-G85

42

PBX CABLING DIAGRAM (2) SD-65746-01-G85

BELL TELEPHONE LABORATORIES INCORPORATED — DWG SIZE 6S — PRINTED IN U.S.A.

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Ⓝ CAD 30

CONNECTOR CABLE FOR CORD SWITCHBOARD
AUXILIARY CENTRAL OFFICE TRUNK RELAY UNIT
MOUNTED EXTERNALLY TO PBX

CABLE FROM SLIDE 5 CROWN
TO APPARATUS CABINET

TO CAD 13
PLUG AH5

T9	VIS	9M	SE9	
R9	SIV	8M	SE9	
T8	VIBR	5M	SE8	
R8	BRIV	4M	SE8	
T7	VIG	9M	SE7	
R7	GIV	8M	SE7	
T6	VIO	5M	SE6	
R6	OIV	4M	SE6	
T5	VIBL	9M	SE5	
R5	BLIV	8M	SE5	
T4	YIS	5M	SE4	REL
R4	SIY	4M	SE4	
T3	YIBR	9M	SE3	
R3	BRIY	8M	SE3	
T2	YIG	5M	SE2	
R2	GIY	4M	SE2	
T1	YIO	9M	SEI	
R1	OIY	8M	SEI	
T0	YIBL	5M	SEO	
R0	BLIY	4M	SEO	
	BKIS			
	SIBK			
	BKIBR			
	BRIBK			
	BKIG			
	GIBK			
	BKIO			
	OIBK			
	BKIBL			
	BLIBK			

SPARE LEADS

C9	RIS	2U	SE9	
C8	SIR	2L	SE8	
C7	RIBR	2U	SE7	
C6	BRIR	2L	SE6	
C5	RIG	2U	SE5	
C4	GIR	2L	SE4	REL
C3	RIO	2U	SE3	
C2	OIR	2L	SE2	
C1	RIBL	2U	SEI	
CO	BLIR	2L	SEO	

TO CAD 13
PLUG AF5

L9	WIS	L9		
L8	SIW	L8	30	
L7	WIBR	L7	5	
L6	BRIW	L6	29	
L5	WIG	L5	4	
L4	GIW	L4	28	TO CAD 31
L3	WIO	L3	3	
L2	OIW	L2	27	
L1	WIBL	L1	2	
LO	BLIW	LO	26	

PIN NO. 10 … 1

KS16785,L8 PLUG B — KS16786,L4 CONN B — KS16786,L4 CONN A

TO CAD 13
PLUG AE5

CO9 BAT.	VIS	SL9	RES LAMP	IIM	SE9
CO9 GRD	SIV	IOM	SE9 (REL)	SL9	
CO8 BAT.	VIBR	SL8	RES LAMP	2M	SE8
CO8 GRD	BRIV	3M	SE8 (REL)	SL8	
CO7 BAT.	VIG	SL7	RES LAMP	IIM	SE7
CO7 GRD	GIV	IOM	SE7 (REL)	SL7	
CO6 BAT.	VIO	SL6	RES LAMP	2M	SE6
CO6 GRD	OIV	3M	SE6 (REL)	SL6	
CO5 BAT.	VIBL	SL5	RES LAMP	IIM	SE5
CO5 GRD	BLIV	IOM	SE5 (REL)	SL5	
CO4 BAT.	YIS	SL4	RES LAMP	2M	SE4
CO4 GRD	SIY	3M	SE4 (REL)	SL4	
CO3 BAT.	YIBR	SL3	RES LAMP	IIM	SE3
CO3 GRD	BRIY	IOM	SE3 (REL)	SL3	
CO2 BAT.	YIG	SL2	RES LAMP	2M	SE2
CO2 GRD	GIY	3M	SE2 (REL)	SL2	
COI BAT.	YIO	SLI	RES LAMP	IIM	SEI
COI GRD	OIY	IOM	SEI (REL)	SLI	
COO BAT.	YIBL	SLO	RES LAMP	2M	SEO
COO GRD	BLIY	3M	SEO (REL)	SLO	
	BKIS				
	SIBK				
	BKIBR				
	BRIBK				
	BKIG				
	GIBK				
	BKIO				
	OIBK				
	BKIBL				
	BLIBK				

ZE — ZF RES — XG REL

SPARE LEADS

BG9	RIS	10	SE9	
CG9	SIR	10B	SE9	
BG8	RIBR	3	SE8	
CG8	BRIR	3B	SE8	
BG7	RIG	10	SE7	
CG7	GIR	10B	SE7	
BG6	RIO	3	SE6	
CG6	OIR	3B	SE6	
BG5	RIBL	10	SE5	
CG5	BLIR	10B	SE5	
BG4	WIS	3	SE4	REL
CG4	SIW	3B	SE4	
BG3	WIBR	10	SE3	
CG3	BRIW	10B	SE3	
BG2	WIG	3	SE2	
CG2	GIW	3B	SE2	
BGI	WIO	10	SEI	
CGI	OIW	10B	SEI	
BGO	WIBL	3	SEO	
CGO	BLIW	3B	SEO	

TO CAD 13
PLUG AG5

PIN NO. 10 … 1

KS16785,L8 PLUG C — KS16786,L4 CONN C

DRAWING ISSUE

21D	RKU JFF KFJ	HW
23B	PSTP SAK KFJ	
24D	— SAK GFH	
28D	K62 GFH	
43	REK PJS LDJ	

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PBX CABLING DIAGRAM (2)

SD-65746-01-G86

BELL TELEPHONE LABORATORIES INCORPORATED

DWG SIZE 6S

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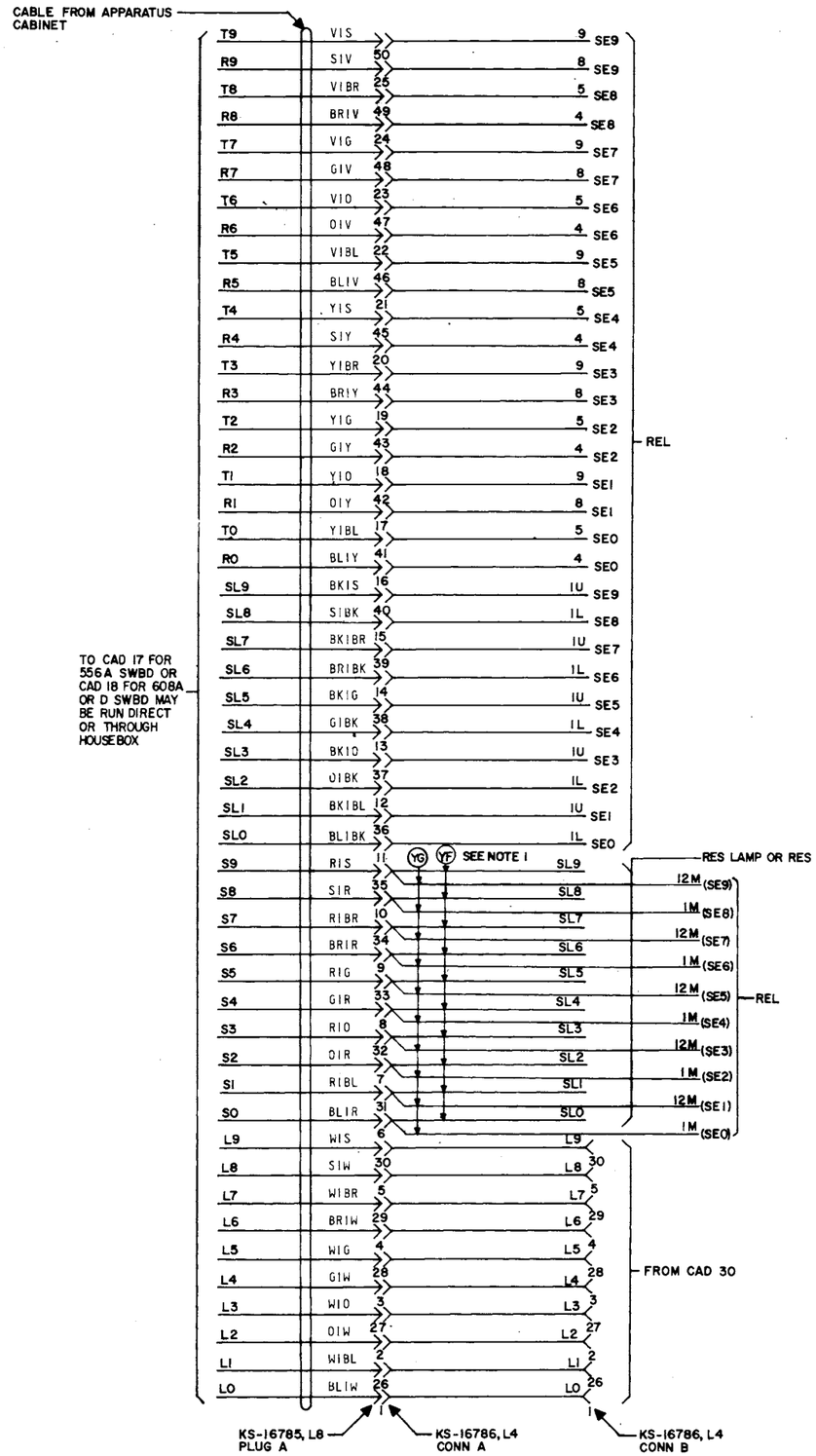
Ⓝ CAD 31

SUPPLEMENTARY HOUSE AND FEEDER CABLE FOR CORD SWITCHBOARD
AUXILIARY CENTRAL OFFICE TRUNK RELAY UNIT MOUNTED EXTERNALLY TO PBX



NOTE
1. OPTIONS YF & YG ARE SHOWN ON SD-65752-01.

DRAWING ISSUE	
21D	JFF KFJ
23B	SAK JFJ
24D	SAK GFH
26D	DWY SAK GFH
28D	GFH
34D	BCM SAK RHF
42B	BMW PJS LDJ

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PBX CABLING DIAGRAM (2) SD-65746-01-G87

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SD-65746-01-G87

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SLIDE 1	SLIDE 2	SLIDE 3	SLIDE 4	SLIDE 5	SLIDE 6	LEAD DESIG
				PLUG AE PIN NO. — PLT		
				YIBL — TO CAD 30		
				BL — CONN A5 PIN 10		CO0 BAT.
				0 — CONN AU5 PIN 10		
				BLIY — TO CAD 30		
				BL-W — CONN A5 PIN 12		CO0 GRD
				12		
				VIS — TO CAD 30		
				O — CONN C5 PIN 2		CO9 BAT.
				1 — CONN AU5 PIN 19		
				SIV — TO CAD 30		
				O-W — CONN C5 PIN 13		CO9 GRD
				10		
				YIO — TO CAD 30		
				G — CONN A5 PIN 2		CO1 BAT.
				2 — CONN AU5 PIN 11		
				OIY — TO CAD 30		
				G-W — CONN A5 PIN 13		CO1 GRD
				13		
				YIG — TO CAD 30		
				BR — CONN A5 PIN 3		CO2 BAT.
				3 — CONN AU5 PIN 12		
				GIY — TO CAD 30		
				BR-W — CONN A5 PIN 14		CO2 GRD
				14		
				YIBR — TO CAD 30		
				S — CONN A5 PIN 4		CO3 BAT.
				4 — CONN AU5 PIN 13		
				BRIY — TO CAD 30		
				S-W — CONN A5 PIN 15		CO3 GRD
				15		
				YIS — TO CAD 30		
				R — CONN A5 PIN 5		CO4 BAT.
				5 — CONN AU5 PIN 14		
				SIY — TO CAD 30		
				R-W — CONN A5 PIN 16		CO4 GRD
				16		
				VIBL — TO CAD 30		
				BK — CONN A5 PIN 6		CO5 BAT.
				6 — CONN AU5 PIN 15		
				BLIV — TO CAD 30		
				BK-W — CONN A5 PIN 17		CO5 GRD
				17		
				VIO — TO CAD 30		
				R-G — CONN A5 PIN 7		CO6 BAT.
				7 — CONN AU5 PIN 16		
				OIV — TO CAD 30		
				R-S — CONN A5 PIN 18		CO6 GRD
				18		
				VIG — TO CAD 30		
				R-BL-W — CONN A5 PIN 8		CO7 BAT.
				8 — CONN AU5 PIN 17		
				GIV — TO CAD 30		
				R-O-W — CONN A5 PIN 19		CO7 GRD
				19		
				VIBR — TO CAD 30		
				R-G-W — CONN F5 PIN 8		CO8 BAT.
				9 — CONN AU5 PIN 18		
				BRIV — TO CAD 30		
				R-BR-W — CONN F5 PIN 19		CO8 GRD
				11 — (T) SEE NOTE 2		

DRAWING ISSUE		
21D	SAK	HW
	JFF	
	KFJ	
23B	WAM	
	SAK	
	KFJ	
28D	ROZ	
	GFH	

(N,Y) PART OF CAD 13

CONNECTOR CABLE FOR CORD SWITCHBOARD
AUXILIARY CENTRAL OFFICE TRUNK RELAY UNIT
MOUNTED EXTERNALLY TO PBX

SHEET NOTES:
1. OPTION "Y" IS SHOWN ON SD-65741-01.
2. STRAPPED IN CROWN SEE SD-65920-01, CAD 4.

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PBX SYSTEMS
NO. 756A
PBX CABLING DIAGRAM (2)

SD-65746-01-G88

BELL TELEPHONE LABORATORIES INCORPORATED — DWG SIZE 6S — PRINTED IN U.S.A.

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SLIDE 1	SLIDE 2	SLIDE 3	SLIDE 4	SLIDE 5 PLUG AF PIN NO / PLT	SLIDE 6	LEAD DESIG
				BLIR — TO CAD 30		
				BL L 0 — ACA	A	CO
				OIW — TO CAD 30		
				BL-W 8B 12 — S1 CONN AD5 PIN 12	E	L2 TL 2
				RIBL — TO CAD 30		
				O L 1 — ACA	C	C1
				BLIW — TO CAD 30		
				O-W 8B 10 — S1 CONN AB5 PIN 6	A	LO TL 0
				OIR — TO CAD 30		
				G L 2 — ACA	E	C2
				WIO — TO CAD 30		
				G-W 23 13 — TRK PTCH UNIT PG3A; CONN AM5 PIN 5	J	L3 TL 3
				RIO — TO CAD 30		
				BR 26 3 — TRK PTCH UNIT PG3B	J	C3
				GIW — TO CAD 30		
				BR-W 23 14 — TRK PTCH UNIT PG4A; CONN AK5 PIN 18	J	L4 TL 4
				GIR — TO CAD 30		
				S 26 4 — TRK PTCH PG4B	J	C4
				WIG — TO CAD 30		
				S-W 8B 15 — S1 CONN AP5 PIN 11	M	L5 TL 5
				RIG — TO CAD 30		
				R L 5 — ACA	M	C5
				BRIW — TO CAD 30		
				R-W 8B 16 — S1 CONN AN5 PIN 4	P	L6 TL 6
				BRIR — TO CAD 30		
				BK L 6 — ACA	P	C6
				WIBR — TO CAD 30		
				BK-W 8B 17 — S1 L CONN B5 PIN 17	R	L7 TL 7
				RIBR — TO CAD 30		
				R G L 7 — ACA	R	C7
				SIW — TO CAD 30		
				R-S 23 18 — TRK PTCH UNIT PG8 A; CONN AR5 PIN 10	V	L8 TL 8
				SIR — TO CAD 30		
				R-BL-W 26 8 — TRK PTCH UNIT PG8B	V	C8
				WIS — TO CAD 30		
				R-O-W 23 19 — TRK PTCH UNIT PG9A; CONN Y5 PIN 3	V	L9 TL 9
				RIS — TO CAD 30		
				R-G-W 26 9 — TRK PTCH UNIT PG9B	V	C9
				WIBL — TO CAD 30		
				R-BR-W 8B 11 — S1 CONN AJ5 PIN 19	C	L1 TL 1
				(W) SEE NOTE 2		

(N,Y) **PART OF CAD 13**

CONNECTOR CABLE FOR CORD SWITCHBOARD AUXILIARY CENTRAL OFFICE TRUNK RELAY UNIT MOUNTED EXTERNALLY TO PBX

SHEET NOTES:

1. OPTION "Y" IS SHOWN ON SD-65741-01.
2. STRAPPED IN CROWN. SEE SD-66920-01, CAD 5.

DRAWING ISSUE		
21D	RWP	JFF KFJ
23B	WMM	SAK KFJ
28D	RDZ	GFH

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PBX SYSTEMS
NO. 756A
PBX CABLING DIAGRAM (2)

SD-65746-01-G89

BELL TELEPHONE LABORATORIES INCORPORATED — DWG SIZE 6S — PRINTED IN U.S.A.

SD-65746-01-G89

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SLIDE 1	SLIDE 2	SLIDE 3	SLIDE 4	SLIDE 5	SLIDE 6	LEAD DESIG
				PLUG AG PIN NO. / PLT		
				(ZQ) WIBL — TO CAD 30 — 18 TS CO TRK, 14 TS CO TRK — 0	B	BGO
				GIW — TO CAD 30 — 14 TS CO TRK, 28 TS CO TRK — 12	F	CG2
				WIO — TO CAD 30 — 18 TS CO TRK, 14 TS CO TRK — 1	D	BG1
				BLIW — TO CAD 30 — 14 TS CO TRK, 28 TS CO TRK — 10	B	CGO
				JIG — TO CAD 30 — 18 TS CO TRK, 14 TS CO TRK — 2	F	BG2
				BRIW — TO CAD 30 — 35 TRK PTCH UNIT PG3A — 13	J	CG3
				WIBR — TO CAD 30 — BR 17 PG3A, 39 PG3C TRK PTCH UNIT — 3	J	BG3
				IW — TO CAD 30 — 35 TRK PTCH UNIT PG4A — 14	J	CG4
				WIS — TO CAD 30 — S 17 PG4A, 39 PG4C TRK PTCH UNIT — 4	J	BG4
				BLIR — TO CAD 30 — 14 TS CO TRK, 28 TS CO TRK — 15	N	CG5
				G.BL — TO CAD 30 — R 18 TS CO TRK, 14 TS CO TRK — 5	N	BG5
				OIR — TO CAD 30 — 14 TS CO TRK, 28 TS CO TRK — 16	Q	CG6
				RIO — TO CAD 30 — BK 18 TS CO TRK, 14 TS CO TRK — 6	Q	BG6
				GIR — TO CAD 30 — 14 TS CO TRK, 28 TS CO TRK — 17	S	CG7
				RIG — TO CAD 30 — R-G 18 TS CO TRK, 14 TS CO TRK — 7 (YR)	S	BG7
				BRIR — TO CAD 30 — 35 TRK PTCH UNIT PG8A — 18	V	CG8
				RIBR — TO CAD 30 — (ZQ) R-BL-W 17 PG8A, 39 PG8C TRK PTCH UNIT — 8 (YR) SIR	V	BG8
				TO CAD 30 — 35 TRK PTCH UNIT PG9A — 19	V	CG9
				RIS — TO CAD 30 — (ZQ) R-G-W 17 PG9A, 39 PG9C TRK PTCH UNIT — 9 (YR) OIW	V	BG9
				TO CAD 30 — (ZQ) 14 TS CO TRK, 28 TS CO TRK — 11 (YR)	D	CGI

(N,Y) **PART OF CAD 13**

CONNECTOR CABLE FOR CORD SWITCHBOARD AUXILIARY CENTRAL OFFICE TRUNK RELAY UNIT MOUNTED EXTERNALLY TO PBX.

SHEET NOTES:
1. OPTION "Y" IS SHOWN ON SD-65741-01.
2. OPTIONS "YR" & "ZQ" ARE SHOWN ON SD-65752-01.

DRAWING ISSUE		
21D	GAP JFF KFJ	HW
23B	WJM SAK KFJ	
28D	RPZ CPH	A
36D	JJR PJS RHP	HW

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PBX CABLING DIAGRAM (2) — SD-65746-01-G90

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SLIDE 1	SLIDE 2	SLIDE 3	SLIDE 4	SLIDE 5 PLUG AH PIN NO. PLT	SLIDE 6	LEAD DESIG
				YIBL — TO CAD 30		
				0 BL 2M — ACA A CONN AB5 PIN 19		TO TCAO
				BLIY — TO CAD 30		
				3 BL-W 1M — ACA A CONN AB5 PIN 18		RO RCAO
				YIO — TO CAD 30		
				1 O 2M — ACA C CONN AA5 PIN 12		TI TCAI
				OIY — TO CAD 30		
				4 O-W 1M — ACA C CONN AA5 PIN 11		RI RCAI
				YIG — TO CAD 30		
				2 G 2M — ACA E CONN AJ5 PIN 5		T2 TCA2
				GIY — TO CAD 30		
				5 G-W 1M — ACA E CONN AJ5 PIN 4		R2 RCA2
				YIBR — TO CAD 30		
				6 BR 27 TRK PTCH UNIT PG3B J CONN AC5 PIN 18		T3 TCA3
				BRIY — TO CAD 30		
				9 BR-W 28 TRK PTCH UNIT PG3B J CONN AC5 PIN 17		R3 RCA3
				YIS — TO CAD 30		
				7 S 27 TRK PTCH UNIT PG4B J CONN AL5 PIN 11		T4 TCA4
				SIY — TO CAD 30		
				10 S-W 28 TRK PTCH UNIT PG4B CONN AL5 PIN 10		R4 RCA4
				VIBL — TO CAD 30		
				8 R 2M — ACA M CONN AK5 PIN 4		T5 TCA5
				BLIV — TO CAD 30		
				11 R-W 1M — ACA M CONN AK5 PIN 3		R5 RCA5
				VIO — TO CAD 30		
				12 BK 2M — ACA P CONN AN5 PIN 17		T6 TCA6
				OIV — TO CAD 30		
				13 BK-W 1M — ACA P CONN AN5 PIN 16		R6 RCA6
				VIG — TO CAD 30		
				14 R-G 2M — ACA R CONN D5 PIN 0		T7 TCA7
				GIV — TO CAD 30		
				17 R-S 1M — ACA R CONN D5 PIN 9		R7 RCA7
				VIBR — TO CAD 30		
				15 R-BL-W 27 TRK PTCH UNIT PG8B V CONN B5 PIN 3		T8 TCA8
				BRIV — TO CAD 30		
				18 R-O-W 28 TRK PTCH UNIT PG8B V CONN B5 PIN 2		R8 RCA8
				VIS — TO CAD 30		
				16 R-G-W 27 TRK PTCH UNIT PG9B V CONN Y5 PIN 16		T9 TCA9
				SIV — TO CAD 30		
				19 R-BR-W 28 TRK PTCH UNIT PG9B V CONN Y5 PIN 15		R9 RCA9
				(W) SEE NOTE 2		

DRAWING ISSUE		
21D	GAP JFF KFJ	HW
238	WM SAK KFJ	
28D	Roz GFA	

(N,Y) PART OF CAD 13

CONNECTOR CABLE FOR CORD SWITCHBOARD AUXILIARY CENTRAL OFFICE TRUNK RELAY UNIT MOUNTED EXTERNALLY TO PBX.

SHEET NOTES:

1. OPTION "Y" IS SHOWN ON SD-65741-01.
2. STRAPPED IN CROWN SEE SD-66920-01, CAD 5

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PBX SYSTEMS NO. 756A PBX CABLING DIAGRAM (2)	SD-65746-01-G91
BELL TELEPHONE LABORATORIES INCORPORATED	DWG SIZE 6S

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CAD 32

HOUSE & FEEDER CABLE LEADS FROM MODULE 1
WHEN CABLE TERMINAL SECTION (J58829 AM) IS PROVIDED
(SEE NOTE 1 AND 302)

LEAD DESIG	COLOR	FROM SD-65746-01 CAD 1A SLIDE	FROM SD-65746-01 CAD 1A PLUG	VIA TERM. FRAME CONN BLOCK DESIG	VIA TERM. FRAME CONN BLOCK TERM	TO EQUIPMENT EXTERNAL TO PBX (SEE NOTES 2 & 3)
T1	WIBL	2	W	A1	1T	STA 20
R1	BLIW				1R	OR TT80
T2	WIO				2T	STA 21
R2	OIW				2R	OR TT81
T3	WIG				3T	STA 22
R3	GIW				3R	OR TT82
T4	WIBR				4T	STA 23
R4	BRIW				4R	OR TT83
T5	WIS				5T	STA 24
R5	SIW				5R	OR TT84
T6	RIBL				6T	STA 25
R6	BLIR				6R	OR TT85
T7	RIO				7T	STA 26
R7	OIR				7R	OR TT86
T8	RIG				8T	STA 27
R8	GIR				8R	OR TT87
T9	RIBR				9T	STA 28
R9	BRIR				9R	OR TT88
T10	RIS				10T	STA 29
R10	SIR				10R	OR TT89
T11	BKIBL		Y		11T	STA 30
R11	BLIBK				11R	
T12	BKIO				12T	STA 31
R12	OIBK				12R	
T13	BKIG				13T	STA 32
R13	GIBK				13R	
T14	BKIBR				14T	STA 33
R14	BRIBK				14R	
T15	BKIS				15T	STA 34
R15	SIBK				15R	
T16	YIBL				16T	STA 35
R16	BLIY				16R	
T17	YIO				17T	STA 36
R17	OIY				17R	
T18	YIG				18T	STA 37
R18	GIY				18R	
T19	YIBR				19T	STA 38
R19	BRIY				19R	
T20	YIS				20T	STA 39
R20	SIY				20R	
T21	VIBL	3	T		21T	STA 40
R21	BLIV				21R	
T22	VIO				22T	STA 41
R22	OIV				22R	
T23	VIG				23T	STA 42
R23	GIV				23R	
T24	VIBR				24T	STA 43
R24	BRIV				24R	
T25	VIS				25T	STA 44
R25	SIV				25R	

BLUE BINDER

LEAD DESIG	COLOR	FROM SD-65746-01 CAD 1A SLIDE	FROM SD-65746-01 CAD 1A PLUG	VIA TERM. FRAME CONN BLOCK DESIG	VIA TERM. FRAME CONN BLOCK TERM	TO EQUIPMENT EXTERNAL TO PBX (SEE NOTE 3)
T26	WIBL	3	T	A2	1T	STA 45
R26	BLIW				1R	
T27	WIO				2T	STA 46
R27	OIW				2R	
T28	WIG				3T	STA 47
R28	GIW				3R	
T29	WIBR				4T	STA 48
R29	BRIW				4R	
T30	WIS				5T	STA 49
R30	SIW				5R	
T31	RIBL		U		6T	STA 50
R31	BLIR				6R	
T32	RIO				7T	STA 51
R32	OIR				7R	
T33	RIG				8T	STA 52
R33	GIR				8R	
T34	RIBR				9T	STA 53
R34	BRIR				9R	
T35	RIS				10T	STA 54
R35	SIR				10R	
T36	BKIBL				11T	STA 55
R36	BLIBK				11R	
T37	BKIO				12T	STA 56
R37	OIBK				12R	
T38	BKIG				13T	STA 57
R38	GIBK				13R	
T39	BKIBR				14T	STA 58
R39	BRIBK				14R	
T40	BKIS				15T	STA 59
R40	SIBK				15R	
RG	YIBL	1	P	D5	1T	MAN. SWBD MISC PCHG 20
CR	BLIY			D5	1R	MISC PCHG 18
A	YIO			D1	1T	608 SWBD MISC CKT
MI	OIY			D5	2T	CAD 14, 37 OR 43
WCT	YIG			B1	21T	CO ALARM
WCR	GIY			B1	21R	WHEN REQD
SPARE	YIBR			D1	1R	SPARE
M2	BRIY			D5	2R	CAD 14, 37 OR 43
TRLA	YIS			C5	18R	TEL CONSOLE 2
M3	SIY			D5	3T	CAD 14, 37 OR 43
TRLB	VIBL			C2	16R	TEL CONSOLE 1
SPARE	BLIV			D1	2T	SPARE
AP1	VIO			D2	22T	ATND POS 1
AP2	OIV				22R	OR CAD 14, 37 OR 43
AP3	VIG				23T	ATND POS 2
AP4	GIV				23R	OR CAD 14
AP5	VIBR				24T	KEY TEL UNIT
AP6	BRIV				24R	OR CAD 14
AP7	VIS				25T	MAN. SWBD
AP8	SIV				25R	

SEE NOTE 4 & 9

ORANGE BINDER

LEAD DESIG	COLOR	FROM SD-65746-01 CAD 1A SLIDE	FROM SD-65746-01 CAD 1A PLUG	VIA TERM. FRAME CONN BLOCK DESIG	VIA TERM. FRAME CONN BLOCK TERM	TO EQUIPMENT EXTERNAL TO PBX
TR 10	WIBL	2	T	D1	2R	EXT TR REG CAB.
TR 9	BLIW				3T	
TR 8	WIO				3R	
SPARE	OIW				4T	
T-(A)	WIG			C1	20T	TEL CONSOLE 1 (SEE NOTE 6 & 10)
R-(A)	GIW				20R	
TL-(A)	WIBR				14T	
SL-(A)	BRIW			C2	3T	
ACA-(B)	WIS			C1	15R	
SL-(B)	SIW			C2	4R	
TL-(B)	RIBL			C1	15T	
ACA-(A)	BLIR			C1	14R	
TR 7	RIO			D1	4R	EXTERNAL TRAFFIC REGISTER CABINET
TR 6	OIR				5T	
TR 5	RIG				5R	
TR 4	GIR				6T	
TR 3	RIBR				6R	
TR 2	BRIR				7T	
TR 1	RIS				7R	
TR BAT.	SIR				8T	
SPARE	BKIBL		U		8R	SPARE
	BLIBK				9T	
	BKIO				9R	
	OIBK				10T	
	BKIG				10R	
	GIBK				11T	
	BKIBR				11R	
	BRIBK				12T	
	BKIS				12R	
	SIBK				13T	
	YIBL				13R	
	BLIY				14T	
	YIO				14R	
	OIY				15T	
KRAO	YIG				15R	TEL CONSOLE 1
SG2	GIY				24R	TEL CONSOLE 1 (SEE NOTE 7)
SG3	YIBR				24T	
KRAI	BRIY				16T	TEL CONSOLE 2
SG2	YIS				25R	
SG3	SIY				25T	
SPARE	VIBL					SPARE (SEE NOTE 8)
	BLIV					
	VIO					
	OIV					
	VIG					
	GIV					
	VIBR					
	BRIV					
	VIS					
	SIV					

GREEN BINDER

UNASSIGNED

UNASSIGNED

SHEET NOTES:

1. WHEN J58829AM CABLE TERMINAL SECTION IS NOT PROVIDED, HOUSE & FEEDER CABLE LEADS FROM MODULE 1 ARE SHOWN ON CAD 1A.
2. TIE TRUNKS 80-89 IN DISTANT PBX.
3. "T" & "R" LEADS T1 THRU R40 INCLUSIVE MULT TO CAD 14 WHEN MANUAL SWBD IS PROVIDED FOR ATTENDANT.
4. AP1-AP8 GROUNDS ARE STRAPPED TOGETHER AT CONN BLOCK D2 & A 14 GA WIRE RUN BY THE SHOP FROM 25R TERMINAL TO ZA GRD STRIP BINDING POST ON FRAME. INSTALLER, RUN A WIRE (18 GA MIN) FROM THE BINDING POST TO THE BUILDING GROUND.
5. REFER TO ALARM, TRANSFER & TEST CKT SD-65743-01 FOR CONNECTING TRLA & TRLB LEADS.
6. **ATTD CONTROLLED CONF FEATURE. SEE CAD 1A, SHEET G29.**
7. WHEN 3-TYPE TEL CONSOLE IS USED, SG2 & SG3 LEADS SHALL BE STRAPPED TO TERMINALS 18R (SG2) & 18T (SG3) OF CONN BLOCK C2, BY THE INSTALLER. THESE LEADS REPLACE SG2 & SG3 LEADS FROM DSS HOUSE & FEEDER CABLE USED WITH 4-TYPE TEL CONSOLE.
8. UNASSIGNED SPARE LEADS FORMED & TIED BACK IN BOTH CROWN & TERM FRAME ENDS OF CABLE.
9. AP1 GRD LEAD IS SHOP WIRED TO TERMINAL 4T OF CONN BLOCK C2 & A STRAP RUN FROM TERMINAL 4T TO TERMINALS 5T & 5R OF CONN BLOCK C2 & TERMINALS 5T,10R & 15T OF CONN BLOCK C3.

   AP2 GRD LEAD IS SHOP WIRED TO TERMINAL 12T OF CONN BLOCK C2 & A STRAP RUN FROM TERMINAL 12T TO TERMINALS 16T, 20T & 21R OF CONN BLOCK C2.
10. **STATION CONTROLLED CONF FEATURE AND CORD SWITCHBOARD IS USED. SEE CAD 45.**

DRAWING ISSUE

24D	BDL	HW
	JFF	
	KFJ	
27D	DWY	
	SAK	
	GFH	
42B	BMM	HW
	PJS	
	LDJ	

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PBX CABLING DIAGRAM

SD-65746-01-G92

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CAD 33

HOUSE & FEEDER CABLE LEADS FROM MODULE 2
WHEN CABLE TERMINAL SECTION (J58829AM) IS PROVIDED
(SEE NOTE 1 AND 302)

DRAWING ISSUE	
24D	BDL JFF KFJ HW
27D	DWY SAK GFH PWC
42B	BMW PJS LDJ

LEAD DESIG		COLOR	FROM SD-65746-01 CAD 1A SLIDE	FROM SD-65746-01 CAD 1A PLUG	VIA TERM. FRAME CONN BLOCK DESIG	VIA TERM. FRAME CONN BLOCK TERM	TO EQUIPMENT EXTERNAL TO PBX (SEE NOTE 2)
T1		WIBL	4	W	A2	16T	STA 60
R1		BLIW				16R	
T2		WIO				17T	STA 61
R2		OIW				17R	
T3		WIG				18T	STA 62
R3		GIW				18R	
T4		WIBR				19T	STA 63
R4		BRIW				19R	
T5		WIS				20T	STA 64
R5		SIW				20R	
T6		RIBL				21T	STA 65
R6		BLIR				21R	
T7		R10				22T	STA 66
R7		OIR				22R	
T8		RIG				23T	STA 67
R8		GIR				23R	
T9		RIBR				24T	STA 68
R9		BRIR				24R	
T10		RIS				25T	STA 69
R10		SIR				25R	
T11		BKIBL		Y	B1	1T	STA 70
R11		BLIBK				1R	
T12		BK10				2T	STA 71
R12		OIBK				2R	
T13		BKIG				3T	STA 72
R13		GIBK				3R	
T14		BKIBR				4T	STA 73
R14		BRIBK				4R	
T15		BKIS				5T	STA 74
R15		SIBK				5R	
T16		YIBL				6T	STA 75
R16		BLIY				6R	
T17		YIO				7T	STA 76
R17		OIY				7R	
T18		YIG				8T	STA 77
R18		GIY				8R	
T19		YIBR				9T	STA 78
R19		BRIY				9R	
T20		YIS				10T	STA 79
R20		SIY				10R	
T	ATT	VIBL	5	W	D5	3R	CAD 15
R	ATT	BLIV			D5	4T	
TL1	TRK	VIO			C1	1T	TEL CONSOLE 1 OR CAD 15
SL1	0	OIV			C1	22R	
TL2	SEE	VIG			C5	1T	TEL CONSOLE 2
SL2	NOTE	GIV			C5	7R	
ACA	NOTE	VIBR			C1	1R	TEL CONSOLE 1
SL3	3	BRIV			D4	1T	NIGHT ATT
ON		VIS			D5	4R	CAD 15
A		SIV			D5	5T	

LEAD DESIG		COLOR	FROM SD-65746-01 CAD 1A SLIDE	FROM SD-65746-01 CAD 1A PLUG	VIA TERM. FRAME CONN BLOCK DESIG	VIA TERM. FRAME CONN BLOCK TERM	TO EQUIPMENT EXTERNAL TO PBX
T		WIBL	5	W	D5	5R	CAD 15
R	ATT	BLIW			D5	6T	
TL1	TRK	WIO			C1	2T	TEL CONSOLE 1 OR CAD 15
SL1	1	OIW			C1	22T	
TL2	SEE	WIG			C5	1R	TEL CONSOLE 2
SL2	NOTE	GIW			C5	8T	
ACA	3	WIBR			C1	2R	TEL CONSOLE 1
SL3		BRIW			D4	1R	NIGHT ATT
ON		WIS			D5	6R	CAD 15
A		SIW				7T	
T		RIBL		U		7R	CAD 15
R	ATT	BLIR				8T	
TL1	TRK	RIO			C1	3T	TEL CONSOLE 1 OR CAD 15
SL1	2	OIR			C1	23R	
TL2	SEE	RIG			C5	2T	TEL CONSOLE 2
SL2	NOTE	GIR			C5	8R	
ACA	4	RIBR			C1	3R	TEL CONSOLE 1
SL3		BRIR			D4	2T	NIGHT ATT
ON		RIS			D5	8R	CAD 15
A		SIR			D5	9T	
TT		BKIBL			C2	13T	TEL CONSOLE 1
TR	POS	BLIBK			C2	13R	
ACG	CKT	BK10			C2	19R	
NTG	SEE	OIBK			C2	22R	
ATI	NOTE	BKIG			C2	15T	
BTI	4	GIBK			C2	15R	
AT2		BKIBR			C5	17R	TEL CONSOLE 2
BT2		BRIBK			C5	18T	
BZ		BKIS			C2	17R	TEL CONSOLE 1
NS		SIBK			C2	20R	
H		YIBL		T	C2	22T	TEL CONSOLE 1
RC		BLIY			D4	2R	KEY TEL SET
ARB1		YIO			C2	21T	TEL CONSOLE 1
ARB2		OIY			C5	20T	TEL CONSOLE 2
STT		YIG			D1	17R	RDT TRK AUX RINGERS AT ATT LOCATION
STR		GIY				18T	
STT		YIBR				18R	
STR	SEE	BRIY				19T	
STT	NOTE	YIS				19R	
STR	5	SIY				20T	
STT		VIBL				20R	
STR		BLIV				21T	
TCW1		VIO				21R	EXT MTD SIG EQPT FOR REMOTE TRK ANSW
TCW2		OIV				22T	
TCW3		VIG				22R	
TCW4		GIV				23T	
RA		VIBR			C2	17T	TEL CONSOLE 1
BZ		BRIV			D4	3T	KEY TEL SET
NA		VIS			D1	16R	CAD 15
SPARE		SIV			D1	17T	

LEAD DESIG		COLOR	FROM SD-65746-01 CAD 1A SLIDE	FROM SD-65746-01 CAD 1A PLUG	VIA TERM. FRAME CONN BLOCK DESIG	VIA TERM. FRAME CONN BLOCK TERM	TO EQUIPMENT EXTERNAL TO PBX
T		WIBL	5	S	B1	11T	CENTRAL OFFICE
R	CO	BLIW			B1	11R	
TL1	TRK	WIO			C1	4T	TEL CONSOLE 1
SL1	0	OIW			C1	23T	
TL2	SEE	WIG			C5	2R	TEL CONSOLE 2
SL2	NOTE	GIW			C5	9T	
ACA	6	WIBR			C1	4R	TEL CONSOLE 1
L		BRIW			D4	3R	KEY TEL SET
T		WIS			B1	12T	CENTRAL OFFICE
R	CO	SIW			B1	12R	
TL1	TRK	RIBL			C1	5T	TEL CONSOLE 1
SL1	1	BLIR			C1	24R	
TL2		R10			C5	3T	TEL CONSOLE 2
SL2		OIR			C5	9R	
ACA		RIG			C1	5R	TEL CONSOLE 1
L		GIR			D4	4T	KEY TEL SET
T		RIBR			B1	13T	CENTRAL OFFICE
R		BRIR			B1	13R	
TL1	CO	RIS			C1	6T	TEL CONSOLE 1
SL1	TRK	SIR			C1	24T	
TL2	2	BKIBL		R	C5	3R	TEL CONSOLE 2
SL2		BLIBK			C5	10T	
ACA		BK10			C1	6R	TEL CONSOLE 1
L		OIBK			D4	4R	KEY TEL SET
T		BKIG			B1	14T	CENTRAL OFFICE
R	CO	GIBK			B1	14R	OR RDT TRK
TL1	TRK	BKIBR			C1	10T	TEL CONSOLE 1
SL1	3	BRIBK			C2	1T	
TL2		BKIS			C5	5R	TEL CONSOLE 2
SL2		SIBK			C5	12T	
ACA		YIBL			C1	10R	TEL CONSOLE 1
L		BLIY			D4	5T	KEY TEL SET
T		YIO			B1	15T	CENTRAL OFFICE
R		OIY			B1	15R	OR RDT TRK
TL1	CO	YIG			C1	11T	TEL CONSOLE 1
SL1	TRK	GIY			C2	2R	
TL2	4	YIBR			C5	6T	TEL CONSOLE 2
SL2		BRIY			C5	12R	
ACA		YIS			C1	11R	TEL CONSOLE 1
L		SIY			D4	5R	KEY TEL SET
T		VIBL		P	B1	16T	CENTRAL OFFICE
R		BLIV			B1	16R	
TL1	CO	VIO			C1	7T	TEL CONSOLE 1
SL1	TRK	OIV			C1	25R	
TL2	5	VIG			C5	4T	TEL CONSOLE 2
SL2		GIV			C5	10R	
ACA		VIBR			C1	7R	TEL CONSOLE 1
L		BRIV			D4	6T	KEY TEL SET
T	CO	VIS			B1	17T	CENTRAL OFFICE
R	TRK 6	SIV			B1	17R	

LEAD DESIG		COLOR	FROM SD-65746-01 CAD 1A SLIDE	FROM SD-65746-01 CAD 1A PLUG	VIA TERM. FRAME CONN BLOCK DESIG	VIA TERM. FRAME CONN BLOCK TERM	TO EQUIPMENT EXTERNAL TO PBX
TL1		WIBL	5	P	C1	8T	TEL CONSOLE 1
SL1	CO	BLIW			C1	25T	
TL2	TRK	WIO			C5	4R	TEL CONSOLE 2
SL2	6	OIW			C5	11T	
ACA		WIG			C1	8R	TEL CONSOLE 1
L		GIW			D4	6R	KEY TEL SET
T		WIBR			B1	18T	CENTRAL OFFICE
R		BRIW			B1	18R	
TL1	CO	WIS			C1	9T	TEL CONSOLE 1
SL1	TRK	SIW			C2	1R	
TL2	7	RIBL		N	C5	5T	TEL CONSOLE 2
SL2		BLIR			C5	11R	
ACA		R10			C1	9R	TEL CONSOLE 1
L		OIR			D4	7T	KEY TEL SET
T		RIG			B1	19T	CENTRAL OFFICE
R		GIR			B1	19R	OR RDT TRK
TL1	CO	RIBR			C1	12T	TEL CONSOLE 1
SL1	TRK	BRIR			C2	2T	
TL2	8	RIS			C5	6R	TEL CONSOLE 2
SL2		SIR			C5	13T	
ACA		BKIBL			C1	12R	TEL CONSOLE 1
L		BLIBK			D4	7R	KEY TEL SET
T		BK10			B1	20T	CENTRAL OFFICE
R		OIBK			B1	20R	OR RDT TRK
TL1	CO	BKIG			C1	13T	TEL CONSOLE 1
SL1	TRK	GIBK			C2	3R	
TL2	9	BKIBR			C5	7T	TEL CONSOLE 2
SL2		BRIBK			C5	13R	
ACA		BKIS			C1	13R	TEL CONSOLE 1
L		SIBK			D4	8T	KEY TEL SET
SPARE		YIBL					SPARE (SEE NOTE 7)
		BLIY					
		YIO					
		OIY					
		YIG					
		GIY					
		YIBR					
		BRIY					
		YIS					
		SIY					
		VIBL					
		BLIV					
		VIO					
		OIV					
		VIG					
		GIV					
		VIBR					
		BRIV					
		VIS					
		SIV					

BLUE BINDER

ORANGE BINDER

GREEN BINDER

BROWN BINDER

UNASSIGNED

UNASSIGNED

SHEET NOTES:

1. WHEN J58829AM CABLE TERMINAL SECTION IS NOT PROVIDED, HOUSE & FEEDER CABLE LEADS FROM MODULE 2 ARE SHOWN ON CAD 1A, SHEETS G26, G27 & G31 THRU G37 INCLUSIVE.
2. "T" & "R" LEADS T1 THRU R20 INCL MULT TO CAD 14 WHEN MANUAL SWBD IS PROVIDED FOR ATTENDANT.
3. LEADS FROM ATT TRKS 0 & 1. SEE CAD 1A, SH G31 FOR CROSS CONNECT INFORMATION WHEN MANUAL SWBD, KEY TEL SET OR 2ND TEL CONSOLE IS PROVIDED.
4. LEADS FROM ATT TRK 2 & POS CKT. SEE CAD 1A, SH G32 FOR CROSS CONNECT INFORMATION
5. SEE CAD 1A, SH G33.
6. CO TRK CROSS CONNECT INFORMATION SHOWN ON CAD 1A, SH G34.
7. UNASSIGNED SPARE LEADS FORMED & TIED BACK IN BOTH CROWN & TERM FRAME ENDS OF CABLE.

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PBX CABLING DIAGRAM (2)

SD-65746-01-G93

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SIZE 6S

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CAD 34

SUPPLEMENTARY HOUSE & FEEDER CABLE LEADS FOR
DIRECT STATION SELECTION BY ATTENDANT & SINGLE DIGIT DIALING
WHEN CABLE TERMINAL SECTION (J58829AM) IS PROVIDED

(SEE NOTES 1 AND 302)

LEAD DESIG	COLOR	FROM SD-65746-01 CAD 1A SLIDE	FROM SD-65746-01 CAD 1A PLUG	VIA TERM. FRAME CONN BLOCK DESIG	VIA TERM. FRAME CONN BLOCK TERM	TO EQUIPMENT EXTERNAL TO PBX
S	WIBL	1	AE	D3	1T	MAKE-BUSY KEY & LAMP FOR STATIONS ARRANGED FOR SINGLE-DIGIT DIALING
S1	BLIW				1R	
L2BAT	WIO				2T	
L2GRD	OIW				2R	
S	WIG				3T	
S1	GIW				3R	
L3BAT	WIBR				4T	
L3GRD	BRIW				4R	
	WIS			D2	1T	SPARE
	SIW				1R	
	RIBL				2T	
	BLIR				2R	
	RIO				3T	
	OIR				3R	
SPARE	RIG				4T	
	GIR				4R	
	RIBR				5T	
	BRIR				5R	
	RIS				6T	
	SIR				6R	
BL20	BKIBL		AF	C3	16R	BUSY-LAMP LEADS TO 4-TYPE TEL CONSOLE
BL21	BLIBK				16T	
BL22	BKIO				17R	
BL23	OIBK				17T	
BL24	BKIG				18R	
BL25	GIBK				18T	
BL26	BKIBR				19R	
BL27	BRIBK				19T	
BL28	BKIS				20R	
BL29	SIBK				20T	
BL30	YIBL				21R	
BL31	BLIY				21T	
BL32	YIO				22R	
BL33	OIY				22T	
BL34	YIG				23R	
BL35	GIY				23T	
BL36	YIBR				24R	
BL37	BRIY				24T	
BL38	YIS				25R	
BL39	SIY				25T	
S	VIBL	3	AE	D3	5T	MAKE-BUSY KEY & LAMP FOR STATIONS ARRANGED FOR SINGLE-DIGIT DIALING
S1	BLIV				5R	
L4BAT	VIG				6T	
L4GRD	OIV				6R	
S	VIG				7T	
S1	GIV				7R	
L5BAT	VIBR				8T	
L5GRD	BRIV				8R	
SPARE	VIS			D2	7T	SPARE
SPARE	SIV			D2	7R	

BLUE BINDER

LEAD DESIG	COLOR	FROM SD-65746-01 CAD 1A SLIDE	FROM SD-65746-01 CAD 1A PLUG	VIA TERM. FRAME CONN BLOCK DESIG	VIA TERM. FRAME CONN BLOCK TERM	TO EQUIPMENT EXTERNAL TO PBX
	WIBL	3	AE	D2	8T	SPARE
	BLIW				8R	
	WIO				9T	
	OIW				9R	
SPARE	WIG				10T	
	GIW				10R	
	WIBR				11T	
	BRIW				11R	
	WIS				12T	
	SIW				12R	
BL40	RIBL		AF	C4	1R	BUSY-LAMP LEADS TO 4-TYPE TEL CONSOLE
BL41	BLIR				1T	
BL42	RIO				2R	
BL43	OIR				2T	
BL44	RIG				3R	
BL45	GIR				3T	
BL46	RIBR				4R	
BL47	BRIR				4T	
BL48	RIS				5R	
BL49	SIR				5T	
BL50	BKIBL				6R	
BL51	BLIBK				6T	
BL52	BKIO				7R	
BL53	OIBK				7T	
BL54	BKIG				8R	
BL55	GIBK				8T	
BL56	BKIBR				9R	
BL57	BRIBK				9T	
BL58	BKIS				10R	
BL59	SIBK				10T	
S	YIBL	4	AE	D3	9T	MAKE-BUSY KEY & LAMP FOR STATIONS ARRANGED FOR SINGLE-DIGIT DIALING
S1	BLIY				9R	
L6BAT	YIO				10T	
L6GRD	OIY				10R	
S	YIG				11T	
S1	GIY				11R	
L7BAT	YIBR				12T	
L7GRD	BRIY				12R	
	YIS			D2	13T	SPARE
	SIY				13R	
	VIBL				14T	
	BLIV				14R	
	VIO				15T	
SPARE	OIV				15R	
	VIG				16T	
	GIV				16R	
	VIBR				17T	
	BRIV				17R	
	VIS				18T	
	SIV				18R	

ORANGE BINDER

LEAD DESIG	COLOR	FROM SD-65746-01 CAD 1A SLIDE	FROM SD-65746-01 CAD 1A PLUG	VIA TERM. FRAME CONN BLOCK DESIG	VIA TERM. FRAME CONN BLOCK TERM	TO EQUIPMENT EXTERNAL TO PBX
BL60	WIBL	4	AF	C4	11R	BUSY-LAMP LEADS TO 4-TYPE TEL CONSOLE
BL61	BLIW				11T	
BL62	WIO				12R	
BL63	OIW				12T	
BL64	WIG				13R	
BL65	GIW				13T	
BL66	WIBR				14R	
BL67	BRIW				14T	
BL68	WIS				15R	
BL69	SIW				15T	
BL70	RIBL				16R	
BL71	BLIR				16T	
BL72	RIO				17R	
BL73	OIR				17T	
BL74	RIG				18R	
BL75	GIR				18T	
BL76	RIBR				19R	
BL77	BRIR				19T	
BL78	RIS				20R	
BL79	SIR				20T	
T2	BKIBL	6	AG	C3	6R	DSS LEADS TO 1ST 4-TYPE TEL CONSOLE
T3	BLIBK				6T	
T4	BKIO				7R	
T5	OIBK				7T	
T6	BKIG				8R	
T7	GIBK				8T	
T8	BKIBR				9R	
U0	BRIBK				15R	
U1	BKIS				10T	
U2	SIBK				11R	
U3	YIBL				11T	
U4	BLIY				12R	
U5	YIO				12T	
U6	OIY				13R	
U7	YIG				13T	
U8	GIY				14R	
U9	YIBR				14T	
H1	BRIY				9T	
SG3	YIS			C2	18T	DSS LEADS TO 2ND 4-TYPE TEL CONSOLE
SG2	SIY			C2	18R	
T2	VIBL		AH	C6	1R	
T3	BLIV				1T	
T4	VIO				2R	
T5	OIV				2T	
T6	VIG				3R	
T7	GIV				3T	
T8	VIBR				4R	
U0	BRIV				4T	
U1	VIS				5T	
U2	SIV				6T	

GREEN BINDER

LEAD DESIG	COLOR	FROM SD-65746-01 CAD 1A SLIDE	FROM SD-65746-01 CAD 1A PLUG	VIA TERM. FRAME CONN BLOCK DESIG	VIA TERM. FRAME CONN BLOCK TERM	TO EQUIPMENT EXTERNAL TO PBX
U3	WIBL	6	AH	C6	5R	DSS LEADS TO 2ND 4-TYPE TEL CONSOLE
U4	BLIW				7T	
U5	WIO				6R	
U6	OIW				8T	
U7	WIG				7R	
U8	GIW				9T	
U9	WIBR				8R	
H1	BRIW				4T	
SG3	WIS			C5	19T	
SG2	SIW			C5	19R	
B20	RIBL	1	AD	C2	7T	LAMP BATTERY LEADS TO 1ST 4-TYPE TEL CONSOLE
B30	BLIR				8R	
B40	RIO				8T	
B50	OIR				9R	
B60	RIG				9T	
B70	GIR				10R	
B80	RIBR				10T	
	BRIR			D2	19T	SPARE
SPARE	RIS				19R	
	SIR				20T	
B20	BKIBL			C5	14T	LAMP BATTERY LEADS TO 2ND 4-TYPE TEL CONSOLE
B30	BLIBK				15T	
B40	BKIO				14R	
B50	OIBK				16T	
B60	BKIG				15R	
B70	GIBK				17T	
B80	BKIBR				16R	
	BRIBK			D2	20R	SPARE
	BKIS				21T	
	SIBK				21R	
	YIBL					SPARE (SEE NOTE 2)
	BLIY					
	YIO					
	OIY					
	YIG					
	GIY					
	YIBR					
	BRIY					
	YIS					
SPARE	SIY					
	VIBL					
	BLIV					
	VIO					
	OIV					
	VIG					
	GIV					
	VIBR					
	BRIV					
	VIS					
	SIV					

BROWN BINDER

UNASSIGNED

UNASSIGNED

SHEET NOTES:

1. WHEN J58829AM CABLE TERMINAL SECTION IS NOT PROVIDED, HOUSE & FEEDER CABLE LEADS FOR DSS BY ATTENDANT & SINGLE DIGIT DIALING ARE SHOWN ON CAD 24, SHEETS 573 THRU 579 INCLUSIVE.

2. UNASSIGNED SPARE LEADS FORMED & TIED BACK IN BOTH CROWN & TERM FRAME ENDS OF CABLE.

DRAWING ISSUE
240 WRM SAK MF-1

24

PBX SYSTEMS
NO. 756A
BX CABLING DIAGRAM

SD-65746-01-G94

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SLIDE 1	SLIDE 2	SLIDE 3	SLIDE 4	SLIDE 5	SLIDE 6	LEAD DESIG
PLUG A PIN NO.	PLUG M PIN NO. PLT	PLUG S PIN NO. PLT	PLUG S PIN NO. PLT			
FFI TO MAN. SWBD — SEE NOTE 2 — 10	WIBL — BL 2U IN20 N — 0 — 0 CONN AJ	BKIBL — BL R LHM 40 A — 0 — 0 CONN AJ	VIBL — BL R LHM 60 A — 0 — 0 CONN AJ			S
	BLIW — BL-W 2U IN21 N — 12 — 2 CONN AJ	BLIBK — BL-W R LHM 41 A — 12 — 2 CONN AJ	BLIV — BL-W R LHM 61 A — 12 — 2 CONN AJ			S
	WIO — O 2U IN22 N — 1 — 4 CONN AJ	BKIO — O R LHM 42 A — 1 — 4 CONN AJ	VIO — O R LHM 62 A — 1 — 4 CONN AJ			S
	OIW — O-W 2U IN23 N — 10 — 6 CONN AJ	OIBK — O-W R LHM 43 A — 10 — 6 CONN AJ	OIV — O-W R LHM 63 A — 10 — 6 CONN AJ			S
	WIG — G 2U IN24 N — 2 — 8 CONN AJ	BKIG — G R LHM 44 A — 2 — 8 CONN AJ	VIG — G R LHM 64 A — 2 — 8 CONN AJ			S
	GIW — G-W 2U IN25 P — 13 — 10 CONN AJ	GIBK — G-W R LHM 45 A — 13 — 10 CONN AJ	GIV — G-W R LHM 65 A — 13 — 10 CONN AJ			S
	WIBR — BR 2U IN26 P — 3 — 12 CONN AJ	BKIBR — BR R LHM 46 A — 3 — 12 CONN AJ	VIBR — BR R LHM 66 A — 3 — 12 CONN AJ			S
	BRIW — BR-W 2U IN27 P — 14 — 14 CONN AJ	BRIBK — BR-W R LHM 47 A — 14 — 14 CONN AJ	BRIV — BR-W R LHM 67 A — 14 — 14 CONN AJ			S
	WIS — S 2U IN28 P — 4 — 16 CONN AJ	BKIS — S R LHM 48 A — 4 — 16 CONN AJ	VIS — S R LHM 68 A — 4 — 16 CONN AJ			S
	SIW — S-W 2U IN29 P — 15 — 18 CONN AJ	SIBK — S-W R LHM 49 A — 15 — 18 CONN AJ	SIV — S-W R LHM 69 A — 15 — 18 CONN AJ			S
	RIBL — R R LHM 30 F — 5 — 0 CONN AK	YIBL — R R LHM 50 F — 5 — 0 CONN AK	WIBL — R R LHM 70 F — 5 — 0 CONN AK			S
	BLIR — R-W R LHM 31 F — 16 — 2 CONN AK	BLIY — R-W R LHM 51 F — 16 — 2 CONN AK	BLIW — R-W R LHM 71 F — 16 — 2 CONN AK			S
	RIO — BK R LHM 32 F — 6 — 4 CONN AK	YIO — BK R LHM 52 F — 6 — 4 CONN AK	WIO — BK R LHM 72 F — 6 — 4 CONN AK			S
	OIR — BK-W R LHM 33 F — 17 — 6 CONN AK	OIY — BK-W R LHM 53 F — 17 — 6 CONN AK	OIW — BK-W R LHM 73 F — 17 — 6 CONN AK			S
	RIG — R-G R LHM 34 F — 7 — 8 CONN AK	YIG — R-G R LHM 54 F — 7 — 8 CONN AK	WIG — R-G R LHM 74 F — 7 — 8 CONN AK			S
	GIR — R-S R LHM 35 F — 18 — 10 CONN AK	GIY — R-S R LHM 55 F — 18 — 10 CONN AK	GIW — R-S R LHM 75 F — 18 — 10 CONN AK			S
	RIBR — R-BL-W R LHM 36 F — 8 — 12 CONN AK	YIBR — R-BL-W R LHM 56 F — 8 — 12 CONN AK	WIBR — R-BL-W R LHM 76 F — 8 — 12 CONN AK			S
	BRIR — R-O-W R LHM 37 F — 19 — 14 CONN AK	BRIY — R-O-W R LHM 57 F — 19 — 14 CONN AK	BRIW — R-O-W R LHM 77 F — 19 — 14 CONN AK			S
	RIS — R-G-W R LHM 38 F — 9 — 16 CONN AK	YIS — R-G-W R LHM 58 F — 9 — 16 CONN AK	WIS — R-G-W R LHM 78 F — 9 — 16 CONN AK			S
	SIR — R-BR-W R LHM 39 F — 11 — 18 CONN AK	SIY — R-BR-W R LHM 59 F — 11 — 18 CONN AK	SIW — R-BR-W R LHM 79 F — 11 — 18 CONN AK			S
			(V,XX,VB)			

(H,Y,XW,XX,VA,VB) PART OF CAD 13

SUPPLEMENTARY HOUSE & FEEDER CABLE FROM MODULES 1 AND 2 FOR USE WHEN CORD SWITCHBOARD IS PROVIDED (SEE NOTE 1)

SHEET NOTES:

1. THE CABLE PAIRS ARE ASSIGNED AS FOLLOWS:
   PAIRS 1-10 (BL BINDER) LINES 20-39
   PAIRS 11-20 (BL BINDER) LINES 40-59
   PAIRS 21-25 (BL BINDER) LINES 60-69
   PAIRS 26-30 (OR BINDER) LINES 70-79
   PAIR 47R (OR BINDER) FFI LEAD

2. THE FFI LEAD IS REQUIRED FOR MANUAL SWITCHBOARD CENTRAL OFFICE TRUNK SD-65665-01. SEE SHEET 44.

3. OPTIONS V, Y, XW, XX, VA & VB ARE SHOWN ON SD-65741-01.

DRAWING ISSUE		
25D	DWY SAK GFH	HW
34D	PMC SAK RHP	
42B	BMM PJS LDJ	

42

PBX CABLING DIAGRAM (2) — SD-65746-01-695

BELL TELEPHONE LABORATORIES INCORPORATED — DWG SIZE 6S — PRINTED IN U.S.A.

SD-65746-01-695

TCI Library www.telephonecollectors.info

SLIDE 1	SLIDE 2	SLIDE 3	SLIDE 4	SLIDE 5	SLIDE 6	LEAD DESIG
	PLUG AJ PIN NO. PLT	PLUG AJ PIN NO. PLT	PLUG AJ PIN NO. PLT			
	SHOWN ON SD-66920-01	SHOWN ON SD-66920-01	SHOWN ON SD-66920-01			
	TO IR CKT	TO IR CKT	TO IR CKT			
	BL-O 0 CONN M 0 CONN AU	BL-O 0 CONN S 0 CONN AU	BL-O 0 CONN S 0 CONN AU			SA
	TO IR CKT	TO IR CKT	TO IR CKT			
	BL-G 3 CONN M 6 CONN AU	BL-G 3 CONN S 6 CONN AU	BL-G 3 CONN S 6 CONN AU			SA
	TO IR CKT	TO IR CKT	TO IR CKT			
	0 S20 M	0 S40 M	0 S60 M			S
	TO IR CKT	TO IR CKT	TO IR CKT			
	BL-BR 13 CONN M 5 CONN AU	BL-BR 13 CONN S 5 CONN AU	BL-BR 13 CONN S 5 CONN AU			SA
	TO IR CKT	TO IR CKT	TO IR CKT			
	BL-S 12 CONN M 1 CONN AU	BL-S 12 CONN S 1 CONN AU	BL-S 12 CONN S 1 CONN AU			SA
	TO IR CKT	TO IR CKT	TO IR CKT			
	G-W S26 M	G-W S46 M	G-W S66 M			S
	TO IR CKT	TO IR CKT	TO IR CKT			
	BR S21 M	BR S41 M	BR S61 M			S
	TO IR CKT	TO IR CKT	TO IR CKT			
	O-G 14 CONN M 7 CONN AU	O-G 14 CONN S 7 CONN AU	O-G 14 CONN S 7 CONN AU			SA
	TO IR CKT	TO IR CKT	TO IR CKT			
	O-BR 1 CONN M 2 CONN AU	O-BR 1 CONN S 2 CONN AU	O-BR 1 CONN S 2 CONN AU			SA
	TO IR CKT	TO IR CKT	TO IR CKT			
	S-W S27 M	S-W S47 M	S-W S67 M			S
	TO IR CKT	TO IR CKT	TO IR CKT			
	R S22 M	R S42 M	R S62 M			S
	TO IR CKT	TO IR CKT	TO IR CKT			
	O-S 4 CONN M 8 CONN AU	O-S 4 CONN S 8 CONN AU	O-S 4 CONN S 8 CONN AU			SA
	TO IR CKT	TO IR CKT	TO IR CKT			
	G-BR 10 CONN M 3 CONN AU	G-BR 10 CONN S 3 CONN AU	G-BR 10 CONN S 3 CONN AU			SA
	TO IR CKT	TO IR CKT	TO IR CKT			
	BK-W S28 M	BK-W S48 M	BK-W S68 M			S
	TO IR CKT	TO IR CKT	TO IR CKT			
	R-G S23 M	R-G S43 M	R-G S63 M			S
	TO IR CKT	TO IR CKT	TO IR CKT			
	G-S 15 CONN M 9 CONN AU	G-S 15 CONN S 9 CONN AU	G-S 15 CONN S 9 CONN AU			SA
	TO IR CKT	TO IR CKT	TO IR CKT			
	BR-S 2 CONN M 4 CONN AU	BR-S 2 CONN S 4 CONN AU	BR-S 2 CONN S 4 CONN A			SA
	TO IR CKT	TO IR CKT	TO IR CKT			
	R-O-W S29 M	R-O-W S49 M	R-O-W S69 M			S
	TO IR CKT	TO IR CKT	TO IR CKT			
	R-G-W S24 M	R-G-W S44 M	R-G-W S64 M			S
	TO IR CKT	TO IR CKT	TO IR CKT			
	R-BR-W S25 M	R-BR-W S45 M	R-BR-W S65 M			S
	PCHGS ON LINE T.S.	PCHGS ON LINE T.S.	(V) PCHGS ON LINE T.S.			

Ⓗ PART OF CAD 36

LEADS TO INWARD RESTRICTION CIRCUIT

SHEET NOTES:

1. OPTION (V) IS SHOWN ON SD-65741-01

DRAWING ISSUE		
25D	DWY SAK GFH	HW 8
32D	PMC SAK RHP	

32

PBX CABLING DIAGRAM (2) — SD-65746-01-G96

BELL TELEPHONE LABORATORIES INCORPORATED — 6S

TCI Library www.telephonecollectors.info

SLIDE 1	SLIDE 2	SLIDE 3	SLIDE 4	SLIDE 5	SLIDE 6	LEAD DESIG
	PLUG AK PIN NO. PLT	PLUG AK PIN NO. PLT	PLUG AK PIN NO. PLT			
	SHOWN ON SD-66920-01	SHOWN ON SD-66920-01	SHOWN ON SD-66920-01			
	0 TO IR CKT W 5 CONN M 10 CONN AU	0 TO IR CKT W 5 CONN S 10 CONN AU	0 TO IR CKT W 5 CONN S 10 CONN AU			SA
	12 TO IR CKT R-BL 8 CONN M 16 CONN AU	12 TO IR CKT R-BL 8 CONN S 16 CONN AU	12 TO IR CKT R-BL 8 CONN S 16 CONN AU			SA
	1 TO IR CKT O 3M AT L	1 TO IR CKT O S50 M	1 TO IR CKT O S70 M			S
	10 TO IR CKT R-O 18 CONN M 15 CONN AU	10 TO IR CKT R-O 18 CONN S 15 CONN AU	10 TO IR CKT R-O 18 CONN S 15 CONN AU			SA
	2 TO IR CKT R-BR 16 CONN M 11 CONN AU	2 TO IR CKT R-BR 16 CONN S 11 CONN AU	2 TO IR CKT R-BR 16 CONN S 11 CONN AU			SA
	13 TO IR CKT G-W S36 M	13 TO IR CKT G-W S56 M	13 TO IR CKT G-W S76 M			S
	3 TO IR CKT BR 6M AT L	3 TO IR CKT BR S51 M	3 TO IR CKT BR S71 M			S
	14 TO IR CKT R-BK 19 CONN M 17 CONN AU	14 TO IR CKT R-BK 19 CONN S 17 CONN AU	14 TO IR CKT R-BK 19 CONN S 17 CONN AU			SA
	4 TO IR CKT BK-O 6 CONN M 12 CONN AU	4 TO IR CKT BK-O 6 CONN S 12 CONN AU	4 TO IR CKT BK-O 6 CONN S 12 CONN AU			SA
	15 TO IR CKT S-W S37 M	15 TO IR CKT S-W S57 M	15 TO IR CKT S-W S77 M			S
	5 TO IR CKT R 9M AT L	5 TO IR CKT R S52 M	5 TO IR CKT R S72 M			S
	16 TO IR CKT BK-G 9 CONN M 18 CONN AU	16 TO IR CKT BK-G 9 CONN S 18 CONN AU	16 TO IR CKT BK-G 9 CONN S 18 CONN AU			SA
	6 TO IR CKT BK-S 17 CONN M 13 CONN AU	6 TO IR CKT BK-S 17 CONN S 13 CONN AU	6 TO IR CKT BK-S 17 CONN S 13 CONN AU			SA
	17 TO IR CKT BK-W S38 M	17 TO IR CKT BK-W S58 M	17 TO IR CKT BK-W S78 M			S
	7 TO IR CKT R-G S33 M	7 TO IR CKT R-G S53 M	7 TO IR CKT R-G S73 M			S
	18 TO IR CKT BK-BR 11 CONN M 19 CONN AU	18 TO IR CKT BK-BR 11 CONN S 19 CONN AU	18 TO IR CKT BK-BR 11 CONN S 19 CONN AU			SA
	8 TO IR CKT BK-BL 7 CONN M 14 CONN AU	8 TO IR CKT BK-BL 7 CONN S 14 CONN AU	8 TO IR CKT BK-BL 7 CONN S 14 CONN AU			SA
	19 TO IR CKT R-O-W S39 M	19 TO IR CKT R-O-W S59 M	19 TO IR CKT R-O-W S79 M			S
	9 TO IR CKT R-G-W S34 M	9 TO IR CKT R-G-W S54 M	9 TO IR CKT R-G-W S74 M			S
	11 TO IR CKT R-BR-W S35 M PCHGS ON LINE T.S.	11 TO IR CKT R-BR-W S55 M PCHGS ON LINE T.S.	11 TO IR CKT R-BR-W S75 M (V) PCHGS ON LINE T.S.			S

DRAWING ISSUE

25D	DWY SAK GFH	HW
32D	PMC SAK FHP	

ⓗPART OF CAD 36

LEADS TO INWARD RESTRICTION CIRCUIT

SHEET NOTES:

1. OPTION (V) IS SHOWN ON SD-65741-01

32

PBX CABLING DIAGRAM (2)

SD-65746-01-G97

BELL TELEPHONE LABORATORIES INCORPORATED

DWG SIZE 6S

PRINTED IN U.S.A.

SD-65746-01-G97

E-2631 (10-61)

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SLIDE 1	SLIDE 2	SLIDE 3	SLIDE 4	SLIDE 5	SLIDE 6 PLUG AK PIN NO. / PLT	LEAD DESIG
					SHOWN ON SD-66920-01	
					TO IR CKT — BL 1 RUCB U — 0	U0
					TO IR CKT — BL-W 6 HCB Y — 12	HC
					TO IR CKT — 0 2 RUCB U — 1	U1
					TO IR CKT — 0-W 6 HCA Y — 10	HA
					TO IR CKT — G 3 RUCB U — 2	U2
					TO IR CKT — G-W 6M HCB Y — 13	HD
					TO IR CKT — BR 4 RUCB U — 3	U3
					TO IR CKT — BR-W 58 BSYB U — 14	HE
					TO IR CKT — S 5 RUCB U — 4	U4
					TO IR CKT — S-W 58 BSYA V — 15	HF
					TO IR CKT — R 7 RUCB U — 5	U5
					TO IR CKT — R-W 18 RLA T — 16	RLS
					TO IR CKT — BK 9 RUCB U — 6	U6
					TO IR CKT — 17	SPARE
					TO IR CKT — R-G 10 RUCB U — 7	U7
					TO IR CKT — R-S 1M U1 V — 18	GRD
					TO IR CKT — R-BL-W 11 RUCB U — 8	U8
					TO IR CKT — 19	SPARE
					TO IR CKT — R-G-W 12 RUCB U — 9	U9
					TO IR CKT — R-BR-W 6M HCA Y — 11	HB

Ⓗ PART OF CAD 36

LEADS TO INWARD RESTRICTION CIRCUIT

DRAWING ISSUE	DWY	SAK	GFH	AWC
25D				

25

PBX SYSTEMS
NO. 756A
PBX CABLING DIAGRAM (2)

SD-65746-01-G98

BELL TELEPHONE LABORATORIES INCORPORATED — DWG SIZE 6S — PRINTED IN U.S.A.

TCI Library www.telephonecollectors.info

SLIDE 1	SLIDE 2	SLIDE 3	SLIDE 4	SLIDE 5	SLIDE 6	LEAD DESIG
		PLUG AD PIN NO. PLT				
		SHOWN ON SD-65920-01				
		0 — TO IR CKT R-G-W 9 CONN K				IR2
		12 — TO IR CKT				SPARE
		1 — TO IR CKT R-BR-W 11 CONN K				IR3
		10				
		2 — TO IR CKT G SM TCS4 M				IR4
		13 — TO IR CKT				SPARE
		3 — TO IR CKT BR SM TCS5 M				IR5
		14 — TO IR CKT				SPARE
		4				
		15				
		5 — TO IR CKT BL-G 7 CONN K				IR6
		16				
		6 — TO IR CKT BL-S 10 CONN K				IR7
		17				
		7				
		18				
		8				
		19 — TO IR CKT BL-O 0 CONN K				IR BAT
		9				
		11 — TO IR CKT BL-W 12 CONN K				IR GRD

Ⓝ PART OF CAD 36

LEADS TO INWARD RESTRICTION CIRCUIT

DRAWING ISSUE: 25D DWY SAK DFH

SD-65746-01-699

25

PBX SYSTEMS
NO. 756A
PBX CABLING DIAGRAM

SD-65746-01-699

BELL TELEPHONE LABORATORIES INCORPORATED 6S

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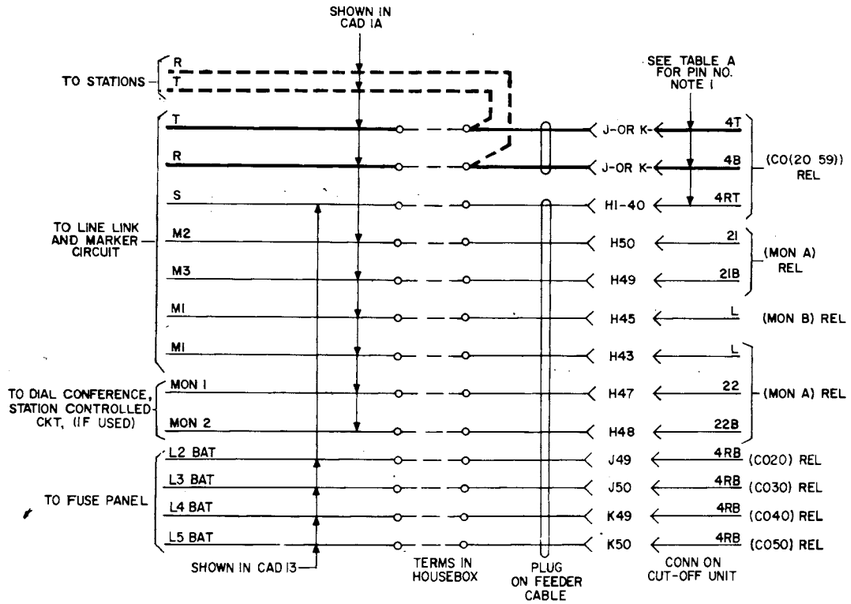
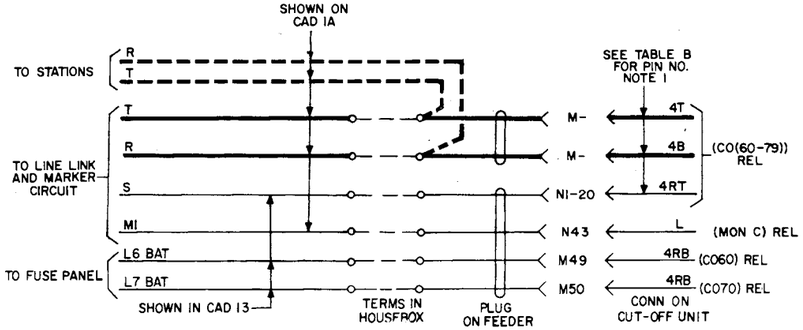
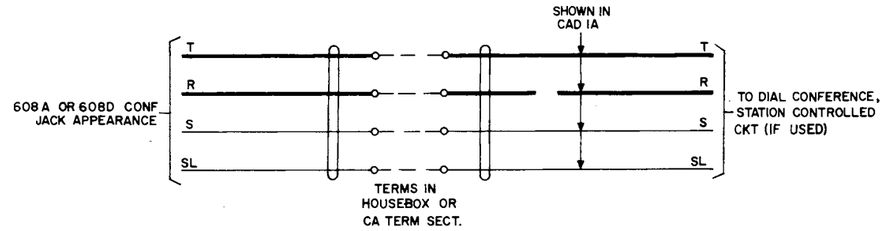
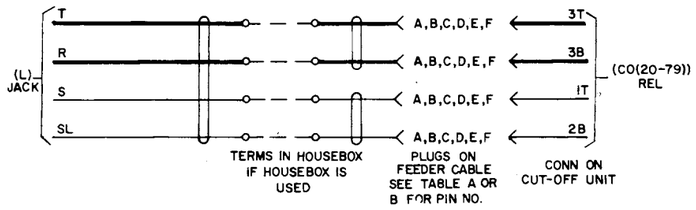
(XW, XX) PART OF CAD 37 (MFR DISC.)

FOR USE WITH 608A OR 608D CORD SWBD (4 WIRE JACK)
STA LINE PLUG-IN HOUSE AND FEEDER
CABLE FOR LINE CUT-OFF UNIT
(SEE NOTE 2)









SHEET NOTES:

1. TABLE A AND B ON SD-65746-01-G101
2. OPTION XW & XX ARE SHOWN ON SD-65741-01.

DRAWING ISSUE	
26D	DWY SAK GFH
31D	CED SAK GFH
39D	JJR PJS RHP
42B	BMM PJS DJ

42

PBX CABLING DIAGRAM (2) SD-65746-01-G100

BELL TELEPHONE LABORATORIES INCORPORATED — DWG SIZE 6S — PRINTED IN U.S.A.

E-7421 (10-61)

TCI Library www.telephonecollectors.info

(XW,XX) PART OF CAD 37 (MFR DISC.)

FOR USE WITH 608A OR 608D SWBD (4 WIRE JACK) AND STATION LINE CUT-OFF UNIT WITH PLUG IN CABLES (SEE NOTE 1)

DRAWING ISSUE

26D	DWY SAK GFH
31 D	OED SAK GFH
39D	JJR PJS RHF
42B	BMM PJS LDJ

TABLE A
1ST 40 STATIONS

	CONN & PIN NO LEADS TO 756A PBX			CONN & PIN NO. LEADS TO 608A OR 608D CORD SWITCHBOARD			
STA	T	R	S	T	R	S	SL
20	J1	J2	H1	A1	A2	A3	A4
21	J3	J4	H2	A5	A6	A7	A8
22	J5	J6	H3	A9	A10	A11	A12
23	J7	J8	H4	A13	A14	A15	A16
24	J9	J10	H5	A17	A18	A19	A20
25	J11	J12	H6	A21	A22	A23	A24
26	J13	J14	H7	A25	A26	A27	A28
27	J15	J16	H8	A29	A30	A31	A32
28	J17	J18	H9	A33	A34	A35	A36
29	J19	J20	H10	A37	A38	A39	A40
30	J21	J22	H11	B1	B2	B3	B4
31	J23	J24	H12	B5	B6	B7	B8
32	J25	J26	H13	B9	B10	B11	B12
33	J27	J28	H14	B13	B14	B15	B16
34	J29	J30	H15	B17	B18	B19	B20
35	J31	J32	H16	B21	B22	B23	B24
36	J33	J34	H17	B25	B26	B27	B28
37	J35	J36	H18	B29	B30	B31	B32
38	J37	J38	H19	B33	B34	B35	B36
39	J39	J40	H20	B37	B38	B39	B40
40	K1	K2	H21	C1	C2	C3	C4
41	K3	K4	H22	C5	C6	C7	C8
42	K5	K6	H23	C9	C10	C11	C12
43	K7	K8	H24	C13	C14	C15	C16
44	K9	K10	H25	C17	C18	C19	C20
45	K11	K12	H26	C21	C22	C23	C24
46	K13	K14	H27	C25	C26	C27	C28
47	K15	K16	H28	C29	C30	C31	C32
48	K17	K18	H29	C33	C34	C35	C36
49	K19	K20	H30	C37	C38	C39	C40
50	K21	K22	H31	D1	D2	D3	D4
51	K23	K24	H32	D5	D6	D7	D8
52	K25	K26	H33	D9	D10	D11	D12
53	K27	K28	H34	D13	D14	D15	D16
54	K29	K30	H35	D17	D18	D19	D20
55	K31	K32	H36	D21	D22	D23	D24
56	K33	K34	H37	D25	D26	D27	D28
57	K35	K36	H38	D29	D30	D31	D32
58	K37	K38	H39	D33	D34	D35	D36
59	K39	K40	H40	D37	D38	D39	D40

TABLE B
ADD 20 STATIONS

	CONN & PIN NO. LEADS TO 756A PBX			CONN & PIN NO. LEAD TO 608A OR 608D CORD SWITCHBOARD			
STA	T	R	S	T	R	S	SL
60	M1	M2	N1	E1	E2	E3	E4
61	M3	M4	N2	E5	E6	E7	E8
62	M5	M6	N3	E9	E10	E11	E12
63	M7	M8	N4	E13	E14	E15	E16
64	M9	M10	N5	E17	E18	E19	E20
65	M11	M12	N6	E21	E22	E23	E24
66	M13	M14	N7	E25	E26	E27	E28
67	M15	M16	N8	E29	E30	E31	E32
68	M17	M18	N9	E33	E34	E35	E36
69	M19	M20	N10	E37	E38	E39	E40
70	M21	M22	N11	F1	F2	F3	F4
71	M23	M24	N12	F5	F6	F7	F8
72	M25	M26	N13	F9	F10	F11	F12
73	M27	M28	N14	F13	F14	F15	F16
74	M29	M30	N15	F17	F18	F19	F20
75	M31	M32	N16	F21	F22	F23	F24
76	M33	M34	N17	F25	F26	F27	F28
77	M35	M36	N18	F29	F30	F31	F32
78	M37	M38	N19	F33	F34	F35	F36
79	M39	M40	N20	F37	F38	F39	F40

PLUG AND PIN NO. AND CABLE LEAD COLORS FOR 1ST 40 STATIONS CAD 37 XW OPTION SEE NOTE 1

"CF" TYPE T INK COLOR CODED CA		BLUE BINDER				ORANGE BINDER				GREEN BINDER			
LEAD COLOR		PAIR NO.	STA NO.	DESIG	PLUG PIN NO.	PAIR NO.	STA NO.	DESIG	PLUG PIN NO.	PAIR NO.	STA NO.	DESIG	PLUG PIN NO.
TIP	RING												
WIBL	BLIW	1	20	T-R	J1-2	1	40	T-R	K1-2	1	20-21	S	H1-2
WIO	OIW	2	21	T-R	3-4	2	41	T-R	3-4	2	22-23	S	3-4
WIG	GIW	3	22	T-R	5-6	3	42	T-R	5-6	3	24-25	S	5-6
WIBR	BRIW	4	23	T-R	7-8	4	43	T-R	7-8	4	26-27	S	7-8
WIS	SIW	5	24	T-R	9-10	5	44	T-R	9-10	5	28-29	S	9-10
RIBL	BLIR	6	25	T-R	11-12	6	45	T-R	11-12	6	30-31	S	11-12
RIO	OIR	7	26	T-R	13-14	7	46	T-R	13-14	7	32-33	S	13-14
RIG	GIR	8	27	T-R	15-16	8	47	T-R	15-16	8	34-35	S	15-16
RIBR	BRIR	9	28	T-R	17-18	9	48	T-R	17-18	9	36-37	S	17-18
RIS	SIR	10	29	T-R	19-20	10	49	T-R	19-20	10	38-39	S	19-20
BKIBL	BLIBK	11	30	T-R	21-22	11	50	T-R	21-22	11	40-41	S	21-22
BKIO	OIBK	12	31	T-R	23-24	12	51	T-R	23-24	12	42-43	S	23-24
BKIG	GIBK	13	32	T-R	25-26	13	52	T-R	25-26	13	44-45	S	25-26
BKIBR	BRIBK	14	33	T-R	27-28	14	53	T-R	27-28	14	46-47	S	27-28
BKIS	SIBK	15	34	T-R	29-30	15	54	T-R	29-30	15	48-49	S	29-30
YIBL	BLIY	16	35	T-R	31-32	16	55	T-R	31-32	16	50-51	S	31-32
YIO	OIY	17	36	T-R	33-34	17	56	T-R	33-34	17	52-53	S	33-34
YIG	GIY	18	37	T-R	35-36	18	57	T-R	35-36	18	54-55	S	35-36
YIBR	BRIY	19	38	T-R	37-38	19	58	T-R	37-38	19	56-57	S	37-38
YIS	SIY	20	39	T-R	39-40	20	59	T-R	39-40	20	58-59	S	39-40
VIBL	BLIV	21				21				21			
VIO	OIV	22				22				22	MKR	MI-	43-
VIG	GIV	23				23				23	MKR	MI-	45-
VIBR	BRIV	24				24				24	SDC	MONI,2	47-48
VIS	SIV	25	BAT	L2-L3	49-50	25	BAT	L4-L5	49-50	25	MKR	M3-M2	49-50

PLUG AND PIN NO. AND CABLE LEAD COLORS FOR ADDITIONAL 20 STATIONS CAD 37 XX OPTION SEE NOTE 1

BLUE BINDER				ORANGE BINDER			
PAIR NO.	STA NO.	DESIG	PLUG PIN NO	PAIR NO.	STA NO.	DESIG	PLUG PIN NO
1	60	T-R	MI-2	1	60-61	S	N1-2
2	61	T-R	3-4	2	62-63	S	3-4
3	62	T-R	5-6	3	64-65	S	5-6
4	63	T-R	7-8	4	66-67	S	7-8
5	64	T-R	9-10	5	68-69	S	9-10
6	65	T-R	11-12	6	70-71	S	11-12
7	66	T-R	13-14	7	72-73	S	13-14
8	67	T-R	15-16	8	74-75	S	15-16
9	68	T-R	17-18	9	76-77	S	17-18
10	69	T-R	19-20	10	78-79	S	19-20
11	70	T-R	21-22	11			
12	71	T-R	23-24	12			
13	72	T-R	25-26	13			
14	73	T-R	27-28	14			
15	74	T-R	29-30	15			
16	75	T-R	31-32	16			
17	76	T-R	33-34	17			
18	77	T-R	35-36	18			
19	78	T-R	37-38	19			
20	79	T-R	39-40	20			
21				21			
22				22	MKR	MI-	43-
23				23			
24				24			
25	BAT	L6-L7	49 50	25			

SHEET NOTES:

1. OPTIONS XW AND XX ARE SHOWN ON SD-65741-01.

SD-65746-01-G101

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PBX CABLING DIAGRAM (2)

BELL TELEPHONE LABORATORIES INCORPORATED

SYSTEM CODE 6S

SD-65746-01-G101

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PLUG AK PIN NO. SLIDE 1	PLUG AD PIN NO. SLIDE 2	SLIDE 3	SLIDE 4	SLIDE 5	SLIDE 6	LEAD DESIG
BL — REG TS W — 0 — 58	0					TR 10
BL-W — REG TS W — 12 — 57	12					TR 9
O — REG TS W — 1 — 56	1					TR 8
BK — REG TS W — 6 — 55	6					TR 7
BK-W — REG TS W — 17 — 54	17					TR 6
R-G — REG TS W — 7 — 53	7					TR 5
R-S — REG TS W — 18 — 52	18					TR 4
R-BL-W — REG TS W — 8 — 51	8					TR 3
R-O-W — REG TS W — 19 — 37	19					TR 2
R-G-W — REG TS W — 9 — 28	9					TR 1
R-BR-W — BAT (TR) FUSE W — 11	11					TR BAT

(E) SHOWN ON CAD 38

PART OF CAD 1

INTERSLIDE LEADS FOR 756A PBX

DRAWING ISSUE

29D EWE GFH HW

29

NO. 756A
PBX CABLING DIAGRAM

SD-65746-01-G102

BELL TELEPHONE LABORATORIES INCORPORATED

6S

PRINTED IN U.S.A.

E-7421 (10-61)

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SLIDE 1	PLUG AD PIN NO. SLIDE 2	SLIDE 3	SLIDE 4	SLIDE 5	SLIDE 6	LEAD DESIG
	PIN 0 CONN T (0)					TR 10
	PIN 12 CONN T (12)					TR 9
	PIN 1 CONN T (1)					TR 8
	PIN 6 CONN T (6)					TR 7
	PIN 17 CONN T (17)					TR 6
	PIN 7 CONN T (7)					TR 5
	PIN 18 CONN T (18)					TR 4
	PIN 8 CONN T (8)					TR 3
	PIN 19 CONN T (19)					TR 2
	PIN 9 CONN T (9)					TR 1
	PIN 11 CONN T (11)					TR BAT

(E) SHOWN ON CAD 1

PART OF CAD 38

LEADS BETWEEN CROWN CONNECTORS
FOR EXTERNAL TRAFFIC REGISTERS

DRAWING ISSUE: 29D EWE GFH HW

29

NO. 756A
PBX CABLING DIAGRAM (2)

SD-65746-01-G103

BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-65746-01-G103

TCI Library www.telephonecollectors.info

SLIDE 1	PLUG T PIN NO. SLIDE 2	SLIDE 3	SLIDE 4	SLIDE 5	SLIDE 6	LEAD DESIG
	PIN 0 — CONN AD — 0					TR 10
	PIN 12 — CONN AD — 12					TR 9
	PIN 1 — CONN AD — 1					TR 8
	PIN 6 — CONN AD — 6					TR 7
	PIN 17 — CONN AD — 17					TR 6
	PIN 7 — CONN AD — 7					TR 5
	PIN 18 — CONN AD — 18					TR 4
	PIN 8 — CONN AD — 8					TR 3
	PIN 19 — CONN AD — 19					TR 2
	PIN 9 — CONN AD — 9					TR 1
	PIN 11 — CONN AD — 11					TR BAT

(E) SHOWN ON CAD 1A

(E) SHOWN ON CAD 1A

PART OF CAD 38

LEADS BETWEEN CROWN CONNECTORS
FOR EXTERNAL TRAFFIC REGISTERS

DRAWING ISSUE
290 EWE GFH HW

29

NO. 756A
PBX CABLING DIAGRAM

SD-65746-01-6104

BELL TELEPHONE LABORATORIES
INCORPORATED

DWG SIZE 6S

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E-2421 (11-61)

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SLIDE 1	SLIDE 2 PLUG W PIN NO. PLT	SLIDE 3 PLUG T PIN NO. PLT	SLIDE 4 PLUG W PIN NO. PLT	SLIDE 5	SLIDE 6	LEAD DESIG
	SEE NOTE 2 & 5	SEE NOTE 2 & 5	SEE NOTE 2 & 5			
	WIBL BL T 0 80 — TO STA 20 OR TT 80 DIST PBX N	VIBL BL 2 0 — TO STA 40 CSBR SW4 VERT 0 LEV I	WIBL BL 2 0 — TO STA 60 CSBR SW 6 VERT 0 LEV I			T
	BLIW BL-W R 12 80 — TO STA 20 OR TT 80 DIST PBX N	BLIV BL-W 1 12 — TO STA 40 LHM	BLIW BL-W 1 12 — TO STA 60 LHM			R
	WIO O T 1 81 — TO STA 21 OR TT 81 DIST PBX N	VIO O 2 1 — TO STA 41 CSBR SW 4 VERT 1 LEV I	WIO O 2 1 — TO STA 61 CSBR SW 5 VERT 1 LEV I			T
	OIW O-W R 10 81 — TO STA 21 OR TT 81 DIST PBX N	OIV O-W 1 10 — TO STA 41 LHM	OIW O-W 1 10 — TO STA 61 LHM			R
	WIG G T 2 82 — TO STA 22 OR TT 82 DIST PBX N	VIG G 2 2 — TO STA 42 CSBR SW 4 VERT 2 LEV I	WIG G 2 2 — TO STA 62 CSBR SW 5 VERT 2 LEV I			T
	GIW G-W R 13 82 — TO STA 22 OR TT 82 DIST PBX N	GIV G-W 1 13 — TO STA 42 LHM	GIW G-W 1 13 — TO STA 62 LHM			R
	WIBR BR T 3 83 — TO STA 23 OR TT 83 DIST PBX N	VIBR BR 2 3 — TO STA 43 CSBR SW 4 VERT 3 LEV I	WIBR BR 2 3 — TO STA 63 CSBR SW 6 VERT 3 LEV I			T
	BRIW BR-W R 14 83 — TO STA 23 OR TT 83 DIST PBX N	BRIV BR-W 1 14 — TO STA 43 LHM	BRIW BR-W 1 14 — TO STA 63 LHM			R
	WIS S T 4 84 — TO STA 24 OR TT 84 DIST PBX N	VIS S 2 4 — TO STA 44 CSBR SW 4 VERT 4 LEV I	WIS S 2 4 — TO STA 64 CSBR SW 6 VERT 4 LEV I			T
	SIW S-W R 15 84 — TO STA 24 OR TT 84 DIST PBX N	SIV S-W 1 15 — TO STA 44 LHM	SIW S-W 1 15 — TO STA 64 LHM			R
	RIBL R T 5 85 — TO STA 25 OR TT 85 DIST PBX P	WIBL R 2 5 — TO STA 45 CSBR SW 4 VERT 5 LEV I	RIBL R 2 5 — TO STA 65 CSBR SW 6 VERT 5 LEV I			T
	BLIR R-W R 16 85 — TO STA 25 OR TT 85 DIST PBX P	BLIW R-W 1 16 — TO STA 45 LHM	BLIR R-W 1 16 — TO STA 65 LHM			R
	RIO BK T 6 86 — TO STA 26 OR TT 86 DIST PBX P	WIO BK 2 6 — TO STA 46 CSBR SW 4 VERT 6 LEV I	RIO BK 2 6 — TO STA 66 CSBR SW 6 VERT 6 LEV I			T
	OIR BK-W R 17 86 — TO STA 26 OR TT 86 DIST PBX P	OIW BK-W 1 17 — TO STA 46 LHM	OIR BK-W 1 17 — TO STA 66 LHM			R
	RIG R-G T 7 87 — TO STA 27 OR TT 87 DIST PBX P	WIG R-G 2 7 — TO STA 47 CSBR SW 4 VERT 7 LEV I	RIG R-G 2 7 — TO STA 67 CSBR SW 6 VERT 7 LEV I			T
	GIR R-S R 18 87 — TO STA 27 OR TT 87 DIST PBX P	GIW R-S 1 18 — TO STA 47 LHM	GIR R-S 1 18 — TO STA 67 LHM			R
	RIBR R-BL-W T 8 88 — TO STA 28 OR TT 88 DIST PBX P	WIBR R-BL-W 2 8 — TO STA 48 CSBR SW 4 VERT 8 LEV I	RIBR R-BL-W 2 8 — TO STA 68 CSBR SW 6 VERT 8 LEV I			T
	BRIR R-O-W R 19 88 — TO STA 28 OR TT 88 DIST PBX P	BRIW R-O-W 1 19 — TO STA 48 LHM	BRIR R-O-W 1 19 — TO STA 68 LHM			R
	RIS R-G-W T 9 89 — TO STA 29 OR TT 89 DIST PBX P	WIS R-G-W 2 9 — TO STA 49 CSBR SW 4 VERT 9 LEV I	RIS R-G-W 2 9 — TO STA 69 CSBR SW 6 VERT 9 LEV I			T
	SIR R-BR-W R 11 89 — OR TT 89 DIST PBX P	SIW R-BR-W 11 — TO STA 49 LHM (S)	SIR R-BR-W 11 — TO STA 69 LHM (S,V)			R
	TIE TRK ADPT TS (B)					

Ⓐ PART OF CAD 1A

HOUSE & FEEDER CABLE LEADS FROM MODULE 1 (SLIDES 2, AND 3) AND MODULE 2 SLIDE 4 (SEE NOTE 1 AND 4)

SHEET NOTES:

1. LINES ARE ASSIGNED TO CABLE PAIRS AS FOLLOWS:

CABLE PAIRS	STA LINES	MODULE HOUSE & FEEDER CABLE
1-10 (BL BINDER)	20-29	1
21-25 (BL BINDER)	40-49	1
26-30 (OR BINDER)	40-49	1
1-10 (BL BINDER)	60-69	2

2. "T" AND "R" LEADS MULT TO CAD 14 WHEN 556A MANUAL SWBD IS PROVIDED FOR ATTENDANT.
3. OPTIONS S & V ARE SHOWN ON SD-65741-01.
4. WHEN PREWIRED CABLE TERMINAL SECTION (J58829AM) IS PROVIDED, HOUSE & FEEDER CABLE LEADS ARE SHOWN ON CAD 32 (MODULE 1) AND CAD 33 (MODULE 2).
5. "T" AND "R" LEADS MULT TO CAD 37 OR 43 WHEN 608A OR 608D CORD SWBD IS PROVIDED.

DRAWING ISSUE	
31D	CED SAN GFH BMM
42B	PJS LDJ

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PBX CABLING DIAGRAM (2) — SD-65746-01-G105

BELL TELEPHONE LABORATORIES INCORPORATED — SIZE 6S — PRINTED IN U.S.A.

SD-65746-01-G105

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SLIDE 1	SLIDE 2	SLIDE 3	SLIDE 4	SLIDE 5	SLIDE 6	LEAD DESIG
	PLUG Y PIN NO / PLT	PLUG U PIN NO / PLT	PLUG Y PIN NO / PLT			
	SEE NOTE 2&5	SEE NOTE 2&5	SEE NOTE 2&5			
	BKIBL TO STA 30 L BL Ⓡ 1 AT P 0	RIBL TO STA 50 F BL 2 CSBR SW 5 VERT 0 LEV 1 P 0	BKIBL TO STA 70 F BL 2 CSBR SW 7 VERT 0 LEV 1 P 0			T
	BLIBK TO STA 30 L BL-W 2 AT 12	BLIR TO STA 50 F BL-W 1 LHM 12	BLIBK TO STA 70 F BL-W 1 LHM 12			R
	BKIO TO STA 31 L O 4 AT P 1	RIO TO STA 51 F O 2 CSBR SW 5 VERT 1 LEV 1 P 1	BKIO TO STA 71 F O 2 CSBR SW 7 VERT 1 LEV 1 P 1			T
	OIBK TO STA 31 L O-W 5 AT 10	DIR TO STA 51 F O-W 1 LHM 10	OIBK TO STA 71 F O-W 1 LHM 10			R
	BKIG TO STA 32 L G 7 AT P 2	RIG TO STA 52 F G 2 CSBR SW 5 VERT 2 LEV 1 P 2	BKIG TO STA 72 F G 2 CSBR SW 7 VERT 2 LEV 1 P 2			T
	GIBK TO STA 32 L G-W 8 AT 13	GIR TO STA 52 F G-W 1 LHM 13	GIBK TO STA 72 F G-W 1 LHM 13			R
	BKIBR TO STA 33 L BR 10 AT 3 1 2 CSBR SW 3 VERT 3 LEV 1 F P	RIBR TO STA 53 F BR 2 CSBR SW 5 VERT 3 LEV 1 P 3	BKIBR TO STA 73 F BR 2 CSBR SW 7 VERT 3 LEV 1 P 3			T
	BRIBK TO STA 33 L ER-W 11 AT SEE NOTE 3 14 1 LHM F	BRIR TO STA 53 F BR-W 1 LHM 14	BRIBK TO STA 73 F BR-W 1 LHM 14			R
	BKIS TO STA 34 F S 2 CSBR SW 3 VERT 4 LEV 1 P 4	RIS TO STA 54 F S 2 CSBR SW 5 VERT 4 LEV 1 P 4	BKIS TO STA 74 F S 2 CSBR SW 7 VERT 4 LEV 1 P 4			T
	SIBK TO STA 34 F S-W 1 LHM 15	SIR TO STA 54 F S-W 1 LHM 15	SIBK TO STA 74 F S-W 1 LHM 15			R
	YIBL TO STA 35 F R 2 CSBR SW 3 VERT 5 LEV 1 P 5	BKIBL TO STA 55 F R 2 CSBR SW 5 VERT 5 LEV 1 P 5	YIBL TO STA 75 F R 2 CSBR SW 7 VERT 5 LEV 1 P 5			T
	BLIY TO STA 35 F R-W 1 LHM 16	BLIBR TO STA 55 F R-W 1 LHM 16	BLIY TO STA 75 F R-W 1 LHM 16			R
	YIO TO STA 36 F BK 2 CSBR SW 3 VERT 6 LEV 1 P 6	BKIO TO STA 56 F BK 2 CSBR SW 5 VERT 6 LEV 1 P 6	YIO TO STA 76 F BK 2 CSBR SW 7 VERT 6 LEV 1 P 6			T
	OIY TO STA 36 F BK-W 1 LHM 17	OIBK TO STA 56 F BK-W 1 LHM 17	OIY TO STA 76 F BK-W 1 LHM 17			R
	YIG TO STA 37 F R-G 2 CSBR SW 3 VERT 7 LEV 1 P 7	BKIG TO STA 57 F R-G 2 CSBR SW 5 VERT 7 LEV 1 P 7	YIG TO STA 77 F R-G 2 CSBR SW 7 VERT 7 LEV 1 P 7			T
	GIY TO STA 37 F R-S 1 LHM 18	GIBK TO STA 57 F R-S 1 LHM 18	GIY TO STA 77 F R-S 1 LHM 18			R
	YIBR TO STA 38 R R-BL-W 2 CSBR SW 3 VERT 8 LEV P 8	BKIBR TO STA 58 F R-BL-W 2 CSBR SW 5 VERT 8 LEV 1 P 8	YIBR TO STA 78 F R-BL-W 2 CSBR SW 7 VERT 8 LEV 1 P 8			T
	BRIY TO STA 38 F R-O-W 1 LHM 19	BRIBK TO STA 58 F R-O-W 1 LHM 19	BRIY TO STA 78 F R-O-W 1 LHM 19			R
	YIS TO STA 39 F R-G-W 2 CSBR SW 3 VERT 9 LEV 1 P 9	BKIS TO STA 59 F R-G-W 2 CSBR SW 5 VERT 9 LEV 1 P 9	YIS TO STA 79 F R-G-W 2 CSBR SW 7 VERT 9 LEV 1 P 9			T
	SIY TO STA 39 F R-BR-W 1 LHM 11 S	SIBK TO STA 59 F R-BR-W 1 LHM 11 S	SIY TO STA 79 F R-BR-W 1 LHM 11 S,V			R

Ⓐ PART OF CAD 1A

HOUSE & FEEDER CABLE LEADS FROM MODULE 1 (SLIDES 2 & 3) AND MODULE 2 (SLIDE 4) (SEE NOTE 1 AND 4)

SHEETS NOTES:

1. LINES ARE ASSIGNED TO CABLE PAIRS AS FOLLOWS:

CABLE PAIRS	STA LINES	MODULE HOUSE & FEEDER CABLE
11-20 (BL BINDER)	30-39	1
31-40 (OR BINDER)	50-59	1
11-20 (BL BINDER)	70-79	2

2. "T" AND "R" LEADS MULT TO CAD 14 WHEN 556A MANUAL SWBD IS PROVIDED FOR ATTENDANT.
3. OPTION S TO (AT)REL IS SHOWN ON SD-65743-01 AND S OPTION TO LHM IS SHOWN ON SD-65741-01. OPTIONS R AND V ARE ALSO SHOWN ON SD-65741-01.
4. WHEN PREWIRED CABLE TERMINAL SECTION (J58829AM) IS PROVIDED, HOUSE & FEEDER CABLE LEADS ARE SHOWN ON CAD 32 (MODULE 1) AND CAD 33 (MODULE 2).
5. "T" AND "R" LEADS MULT TO CAD 37 OR 43 WHEN 608A OR 608D CORD SWBD IS PROVIDED.

DRAWING ISSUE		
31 D	CED	HRW
	SAM	
	GFH	
42B	BMW	
	PJS	
	LDJ	

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PBX CABLING DIAGRAM (Z)

SD-65746-01-G106

BELL TELEPHONE LABORATORIES INCORPORATED

DWG SIZE 6S

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SLIDE 1 PLUG AU PIN NO. SHOWN ON SD-66920-01 PLT		LEAD DESIG BAT	LEAD DESIG GRD	SLIDE 5 PLUG BD PIN NO. SHOWN ON SD-66920-01 PLT		LEAD DESIG	SLIDE 5 PLUG BE PIN NO. SHOWN ON SD-66920-01 PLT		LEAD DESIG	SLIDE 5 PLUG BF PIN NO. SHOWN ON SD-66920-01 PLT		LEAD DESIG
TO MR CKT 0	AO FP BAT Z	AO		TO MR CKT 0	21 ACA A	SS2	TO MR CKT 0	U SR A	SR	TO MR CKT 0	0 CONN BG	GRD
TO MR CKT 12	A2 FP GRD Z		A2	TO MR CKT 12	SPARE		TO MR CKT 12	108 SR E	SI	TO MR CKT 12	12 CONN BG	GRD
TO MR CKT 1	A1 FP BAT Z	A1		TO MR CKT 1	21 ACA C	SS2	TO MR CKT 1	U SR C	SR	TO MR CKT 1	SH A	SSI
TO MR CKT 10	AO FP GRD Z		AO	TO MR CKT 10	SPARE		TO MR CKT 10	108 SR A	SI	TO MR CKT 10	50 PLUG C G	SSI
TO MR CKT 2	A2 FP BAT Z	A2		TO MR CKT 2	21 ACA E	SS2	TO MR CKT 2	U SR E	SR	TO MR CKT 2	2 CONN BG	GRD
TO MR CKT 13	A3 FP GRD Z		A3	TO MR CKT 13	SPARE		TO MR CKT 13	49 PLUG C G	SI	TO MR CKT 13	50 PLUG C K	SSI
TO MR CKT 3	A3 FP BAT Z	A3		TO MR CKT 3	25 PLUG C G	SS2	TO MR CKT 3	24 PLUG C G	SR	TO MR CKT 3	3 CONN BG	GRD
TO MR CKT 14	A4 FP GRD Z		A4	TO MR CKT 14	SPARE		TO MR CKT 14	49 PLUG C K	SI	TO MR CKT 14	14 CONN BG	GRD
TO MR CKT 4	A4 FP BAT Z	A4		TO MR CKT 4	25 PLUG C K	SS2	TO MR CKT 4	24 PLUG C K	SR	TO MR CKT 4	SH C	SSI
TO MR CKT 15	A5 FP GRD Z		A5	TO MR CKT 15	SPARE		TO MR CKT 15	108 SR M	SI	TO MR CKT 15	SH M	SSI
TO MR CKT 5	A5 FP BAT Z	A5		TO MR CKT 5	21 ACA M	SS2	TO MR CKT 5	U SR M	SR	TO MR CKT 5	SH R	SSI
TO MR CKT 16	A6 FP GRD Z		A6	TO MR CKT 16	SPARE		TO MR CKT 16	108 SR P	SI	TO MR CKT 16	16 CONN BG	GRD
TO MR CKT 6	A6 FP BAT Z	A6		TO MR CKT 6	21 ACA P	SS2	TO MR CKT 6	U SR P	SR	TO MR CKT 6	6 CONN BG	GRD
TO MR CKT 17	A7 FP GRD Z		A7	TO MR CKT 17	SPARE		TO MR CKT 17	108 SR R	SI	TO MR CKT 17	17 CONN BG	GRD
TO MR CKT 7	A7 FP BAT Z	A7		TO MR CKT 7	21 ACA R	SS2	TO MR CKT 7	U SR R	SR	TO MR CKT 7	SH E	SSI
TO MR CKT 18	A8 FP GRD Z		A8	TO MR CKT 18	SPARE		TO MR CKT 18	49 PLUG C T	SI	TO MR CKT 18	SH P	SSI
TO MR CKT 8	A8 FP BAT Z	A8		TO MR CKT 8	25 PLUG C T	SS2	TO MR CKT 8	24 PLUG C T	SR	TO MR CKT 8	8 CONN BG	GRD
TO MR CKT 19	A9 FP GRD Z		A9	TO MR CKT 19	SPARE		TO MR CKT 19	49 PLUG C W	SI	TO MR CKT 19	50 PLUG C W	SSI
TO MR CKT 9	A9 FP BAT Z	A9		TO MR CKT 9	25 PLUG C W	SS2	TO MR CKT 9	24 PLUG C W	SR	TO MR CKT 9	9 CONN BG	GRD
TO MR CKT 11	A1 FP GRD Z		A1	TO MR CKT 11	SPARE		TO MR CKT 11	108 SR C	SI	TO MR CKT 11	50 PLUG C T	SSI

(ZA) PART OF CAD 39

LEADS TO STATION MESSAGE REGISTER CIRCUIT

DRAWING ISSUE 32D PMC PJS RHR HW

SD-65746-01-G107

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PBX CABLING DIAGRAM

SD-65746-01-6107

BELL TELEPHONE LABORATORIES INCORPORATED 6S

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SLIDE 5 PLUG BG PIN NO	PLT	LEAD DESIG
SHOWN ON SD-66920-01		
TO MR CKT		
0 ← 6 SR	A	GRD
0 CONN BF		
TO MR CKT		
12 ← 48 PLUG C	K	GRD
12 CONN BF		
TO MR CKT		
1 ← 1M SI	A	H
TO MR CKT		
10 ← 23 PLUG C	G	H
TO MR CKT		
2 ← 6 SR	R	GRD
2 CONN BF		
TO MR CKT		
13 ← 23 PLUG C	K	H
TO MR CKT		
3 ← 6 SR	C	GRD
3 CONN BF		
TO MR CKT		
14 ← 6 SR	M	GRD
14 CONN BF		
TO MR CKT		
4 ← 1M SI	C	H
TO MR CKT		
15 ← 1M SI	M	H
TO MR CKT		
5 ← 1M SI	R	H
TO MR CKT		
16 ← 48 PLUG C	W	GRD
16 CONN BF		
TO MR CKT		
6 ← 6 SR	E	GRD
6 CONN BF		
TO MR CKT		
17 ← 6 SR	P	GRD
17 CONN BF		
TO MR CKT		
7 ← 1M SI	E	H
TO MR CKT		
18 ← 1M SI	P	H
TO MR CKT		
8 ← 48 PLUG C	T	GRD
8 CONN BF		
TO MR CKT		
19 ← 23 PLUG C	W	H
TO MR CKT		
9 ← 48 PLUG C	G	GRD
9 CONN BF		
TO MR CKT		
11 ← 23 PLUG C	T	H

SLIDE 5 PLUG BH PIN NO	PLT	LEAD DESIG
SHOWN ON SD-66920-01		
TO MR CKT		
0 ← 1L RI	B	RI
TO MR CKT		
12 ← 47 PLUG C	K	RI
TO MR CKT		
1 ← 5 RI	B	R2
TO MR CKT		
10 ← 22 PLUG C	G	R2
TO MR CKT		
2 ← 1L RI	S	RI
TO MR CKT		
13 ← 22 PLUG C	K	R2
TO MR CKT		
3 ← 1L RI	D	RI
TO MR CKT		
14 ← 1L RI	N	RI
TO MR CKT		
4 ← 5 RI	D	R2
TO MR CKT		
15 ← 5 RI	N	R2
TO MR CKT		
5 ← 5 RI	S	R2
TO MR CKT		
16 ← 47 PLUG C	W	RI
TO MR CKT		
6 ← 1L RI	F	RI
TO MR CKT		
17 ← 1L RI	Q	RI
TO MR CKT		
7 ← 5 RI	F	R2
TO MR CKT		
18 ← 5 RI	Q	R2
TO MR CKT		
8 ← 47 PLUG C	T	RI
TO MR CKT		
19 ← 22 PLUG C	W	R2
TO MR CKT		
9 ← 47 PLUG C	G	RI
TO MR CKT		
11 ← 22 PLUG C	T	R2

SLIDE 6 PLUG AU PIN NO	PLT	LEAD DESIG
SHOWN ON SD-66920-01		
TO MR CKT		
0 ← 5 COTA	T	COD
TO MR CKT		
12 ← 8 LEBA	Q	MR9
(ZF)		
TO MR CKT		
1 ← 6M COA	T	MR1
CONN L PIN 13		
TO MR CKT		
10 ← 7 LEBA	Q	MR7
(ZG)		
TO MR CKT		
2 ← 7M COA	T	MR2
TO MR CKT		
13 ← L CONBA	S	MR10
TO MR CKT		
3 ← 11 BYA	V	MR3
6 CONA	T	
TO MR CKT		
14 ← 7 LEAA	Q	MR11
TO MR CKT		
4 ← 11 BYB	U	MR4
8 XC	P	
TO MR CKT		
15 ← U CONAA	T	MR12
TO MR CKT		
5 ← 4 BSYA	V	MR5
5M CONA	T	
TO MR CKT		
16 ← 8 LEAA	Q	MR13
TO MR CKT		
6 ← 3 HMKA	V	MR6
5M CONB	S	
TO MR CKT		
17 ← U CONBA	S	MR14
TO MR CKT		
7 ← 12 CONN P		BVS
TO MR CKT		
18 ← 13 CONN P		EXT
TO MR CKT		
CONN W PIN 12		
8 ← 3 CONN H		RSB
CONN AY PIN O		
TO MR CKT		
19 ← 14 CONN P		FFI
TO MR CKT		
CONN W PIN 13		
9 ← 12 CONN H		RSA
CONN AY PIN 12		
TO MR CKT		
11 ← L CONAA	T	MR8
(X) SEE NOTES 1 & 2		

(ZA) PART OF CAD 39

LEADS TO STATION MESSAGE REGISTER CIRCUIT

SHEET NOTES:

1. OPTION X IS SHOWN ON SD-66920-01.
2. SEE SD-66920-01 CAD 1.

DRAWING ISSUE		
32D	PMC PJS	HW
	RHP	
40D	JJR SAK	
	RHP	
41D	WGN GAS	
	RHP	

41

PBX CABLING DIAGRAM

SD-65746-01-G108

BELL TELEPHONE LABORATORIES INCORPORATED

SIZE 6S

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SLIDE 1	SLIDE 2	SLIDE 3	SLIDE 4	SLIDE 5	SLIDE 6	LEAD DESIG
	PLUG AU PIN NO / PLT SHOWN ON SD-66920-01	PLUG AU PIN NO / PLT SHOWN ON SD-66920-01	PLUG AU PIN NO / PLT SHOWN ON SD-66920-01			
	TO MR CKT 0 CONN AJ 0	TO MR CKT 0 CONN AJ 0	TO MR CKT 0 CONN AJ 0			M
	TO MR CKT 4 CONN AK 12	TO MR CKT 4 CONN AK 12	TO MR CKT 4 CONN AK 12			M
	TO MR CKT 2 CONN AJ 1	TO MR CKT 2 CONN AJ 1	TO MR CKT 2 CONN AJ 1			M
	TO MR CKT 0 CONN AK 10	TO MR CKT 0 CONN AK 10	TO MR CKT 0 CONN AK 10			M
	TO MR CKT 4 CONN AJ 2	TO MR CKT 4 CONN AJ 2	TO MR CKT 4 CONN AJ 2			M
	TO MR CKT 6 CONN AK 13	TO MR CKT 6 CONN AK 13	TO MR CKT 6 CONN AK 13			M
	TO MR CKT 6 CONN AJ 3	TO MR CKT 6 CONN AJ 3	TO MR CKT 6 CONN AJ 3			M
	TO MR CKT 8 CONN AK 14	TO MR CKT 8 CONN AK 14	TO MR CKT 8 CONN AK 14			M
	TO MR CKT 8 CONN AJ 4	TO MR CKT 8 CONN AJ 4	TO MR CKT 8 CONN AJ 4			M
	TO MR CKT 10 CONN AK 15	TO MR CKT 10 CONN AK 15	TO MR CKT 10 CONN AK 15			M
	TO MR CKT 10 CONN AJ 5	TO MR CKT 10 CONN AJ 5	TO MR CKT 10 CONN AJ 5			M
	TO MR CKT 12 CONN AK 16	TO MR CKT 12 CONN AK 16	TO MR CKT 12 CONN AK 16			M
	TO MR CKT 12 CONN AJ 6	TO MR CKT 12 CONN AJ 6	TO MR CKT 12 CONN AJ 6			M
	TO MR CKT 14 CONN AK 17	TO MR CKT 14 CONN AK 17	TO MR CKT 14 CONN AK 17			M
	TO MR CKT 14 CONN AJ 7	TO MR CKT 14 CONN AJ 7	TO MR CKT 14 CONN AJ 7			M
	TO MR CKT 16 CONN AK 18	TO MR CKT 16 CONN AK 18	TO MR CKT 16 CONN AK 18			M
	TO MR CKT 16 CONN AJ 8	TO MR CKT 16 CONN AJ 8	TO MR CKT 16 CONN AJ 8			M
	TO MR CKT 18 CONN AK 19	TO MR CKT 18 CONN AK 19	TO MR CKT 18 CONN AK 19			M
	TO MR CKT 18 CONN AJ 9	TO MR CKT 18 CONN AJ 9	TO MR CKT 18 CONN AJ 9			M
	TO MR CKT 2 CONN AK 11	TO MR CKT 2 CONN AK 11	TO MR CKT 2 CONN AK 11			M

(ZA) CAD 40

LEADS TO STATION MESSAGE REGISTER CIRCUIT

DRAWING ISSUE: 32D BCM PJS RHP MW

SD-65746-01-G109

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PBX CABLING DIAGRAM ②

SD-65746-01-G109

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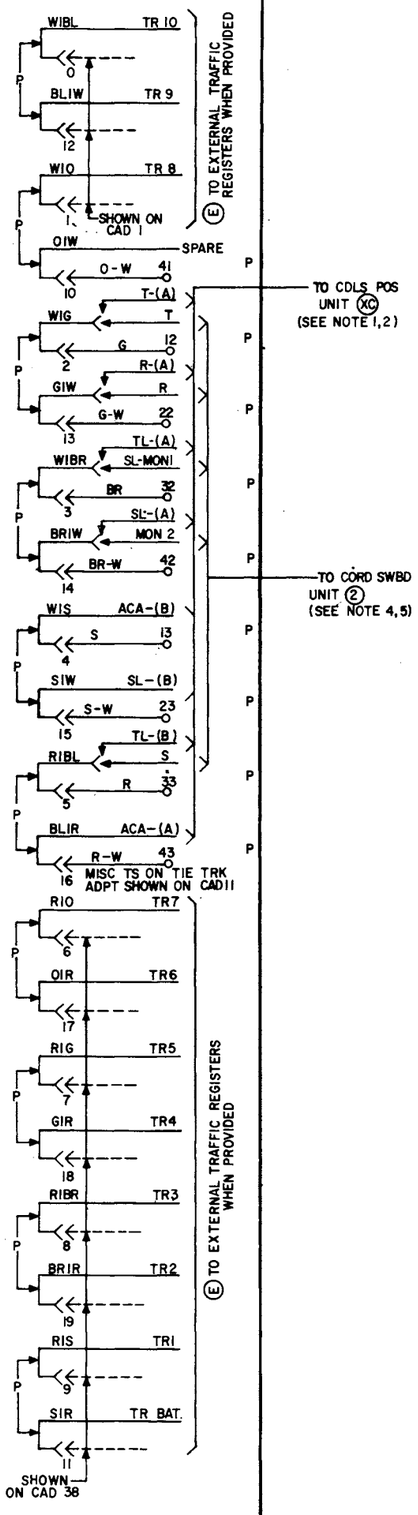
SLIDE 1 | SLIDE 2 | SLIDE 3 | SLIDE 4 | SLIDE 5 | SLIDE 6 | LEAD DESIG

PLUG T PIN NO. PLT



LEAD DESIG

TRIO_
TR9_
TR8_
(E) TO EXTERNAL TRAFFIC REGISTER CIRCUIT

SPARE

T-(A)
T
R-(A)
R
TL-(A)
SL-MONI
SL-(A)
MON 2
ACA-(B)
SL-(B)
TL-(B)
S
ACA-(A)
TO ATND EQPT

TR7_
TR6_
TR5_
TR4_
TR3_
TR2_
TRI_
BAT_
(E) TO EXTERNAL TRAFFIC REGISTER CKT

PART OF CAD 1A

HOUSE & FEEDER CABLE LEADS FROM MODULE 1
(CABLE PAIRS 51-60, GR BINDER)

DRAWING ISSUE

36B	[redacted]	JJR LJS HW
		RHF
42B		BMM PJS LDM

SHEET NOTES:

1. (A) DENOTES LOCKING TYPE KEY TERMINATION.
   (B) DENOTES NON-LOCKING TYPE KEY TERMINATION.
2. OPTION XC IS SHOWN ON SD-65741-01.
3. WHEN PREWIRED CABLE TERMINAL SECTION (J58829AM) IS PROVIDED, HOUSE & FEEDER CABLE LEADS FROM MODULE 1 ARE SHOWN ON CAD 32.
4. OPTION 2 IS SHOWN ON SD-66902-01.
5. SEE CAD 45.

42

PBX CABLING DIAGRAM (2)

SD-65746-01-GIIO

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SLIDE 1	SLIDE 2 PLUG AM PIN NO	PLT	SLIDE 3	SLIDE 4	SLIDE 5 PLUG PIN NO	PLT	SLIDE 6 PLUG AJ PIN NO	PLT	LEAD DESIG
	0 (ZB)						0		
	12 S (REGO) KEY	AB					12 U (RT)	B	MB REG 0
	1 S (REG 1) KEY	AB					1 U (RT) (XF)	E	MB REG 1
	10 (TRK BY INC 0) LP	AB			PLUG K (YT) 0 11 (MC	B	10		1TB0
	2 (TRK BY INC 1) LP	AB			12 11 (MC)	D	2		1TB1
	13 (TRK BY INC 2) LP	AB			1 11 (MC)	F	13		1TB2
	3 (TRK BY INC 5) LP	AB			10 11 (MC)	N	3		1TB5
	14 (TRK BY INC 6) LP	AB			13 11 (MC)	Q	14		1TB6
	4 (TRK BY INC 7) LP	AB			3 11 (MC)	S	4		1TB7
	15 (TRK BY INC 3) LP	AB			PLUG E 15 40 TRK PTCH UNIT PG3C	H	15		1TB3
	5 (TRK BY INC 4) LP	AB			5 40 TRK PTCH UNIT PG4C	L	5 SEE SHEET 114		1TB4
	16 (TRK BY INC 8) LP	AB			16 40 TRK PTCH UNIT PG8C	U	16		1TB8
	6 (TRK BY INC 9) LP	AB			7 (Z) 40 TRK PTCH UNIT PG9C	X	6		1TB9
	17 (ATND TRK 0) LP	AB			PLUG F 11 11 TS ATND TRK	Y	17		BD0
	7 (ATND TRK 1) LP	AB			12 11 TS ATND TRK	Z	7 SEE SHEET 114		BD1
	18 (ATND TRK 2) LP	AB			10 11 TS ATND TRK	AA	18		BD2
	8 S (ATND TRK 0) KEY	AB			13 U (B)	Y	8		TN0
	19 S (ATND TRK 1) KEY	AB			14 U (B)	Z	19		TN1
	9 S (ATND TRK 2) KEY	AB			16 (ZA) U (B)	AA	9		TN2
	11						11		

PART OF CAD 1

INTERSLIDE LEADS FOR 756A PBX

SHEET NOTES:

1. OPTION "XF" IS SHOWN ON SD-65742-01.
2. OPTION "YT" IS SHOWN ON SD-65752-01.
3. OPTION "ZA" IS SHOWN ON SD-65753-01.
4. OPTION "Z" IS SHOWN ON SD-66920-01.

DRAWING ISSUE

360	JJR RHF
410	MGE RHF

41

PBX CABLING DIAGRAM (2)

SD-65746-01-GIII

BELL TELEPHONE LABORATORIES INCORPORATED

DWG SIZE 6S

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SD-65746-01-GIII

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SLIDE 1	SLIDE 2 PLUG AN PIN NO / PLT	SLIDE 3	SLIDE 4	SLIDE 5 PLUG BA PIN NO / PLT	SLIDE 6	LEAD DESIG
	ZB			YT		
	0 S (CO TRK0) AB KEY			0 11 TS CO TRK B		ITO
	12 R (CO TRK0) AB KEY			12 14 TS CO TRK B		ITTO
	1 S (CO TRK1) AB KEY			1 11 TS CO TRK D		IT1
	10 R (CO TRK1) AB KEY			10 14 TS CO TRK D		ITT1
	2 S (CO TRK2) AB KEY			2 11 TS CO TRK F		IT2
	13 R (CO TRK2) AB KEY			13 14 TS CO TRK F		ITT2
	3 S (CO TRK3) AB KEY			Z 3 39 TRK PTCH UNIT PG3C J		IT3
	14 R (CO TRK3) AB KEY			14 15 TRK PTCH UNIT PG3C J		ITT3
	4 S (CO TRK4) AB KEY			4 39 TRK PTCH UNIT PG4C J		IT4
	15 R (CO TRK4) AB KEY			15 15 TRK PTCH UNIT PG4C J		ITT4
	5 S (CO TRK5) AB KEY			YT 5 11 TS CO TRK N		IT5
	16 R (CO TRK5) AB KEY			16 14 TS CO TRK N		ITT5
	6 S (CO TRK6) AB KEY			6 11 TS CO TRK Q		IT6
	17 R (CO TRK6) AB KEY			17 14 TS CO TRK Q		ITT6
	7 S (CO TRK7) AB KEY			7 11 TS CO TRK S		IT7
	18 R (CO TRK7) AB KEY			18 14 TS CO TRK S		ITT7
	8 S (CO TRK8) AB KEY			Z 8 39 TRK PTCH UNIT PG8C V		IT8
	19 R (CO TRK8) AB KEY			19 15 TRK PTCH UNIT PG8C V		ITT8
	9 S (CO TRK9) AB KEY			9 39 TRK PTCH UNIT PG9C V		IT9
	11 R (CO TRK9) AB KEY			11 15 TRK PTCH UNIT PG9C V		ITT9

PART OF CAD 1

INTERSLIDE LEADS FOR 756A PBX

DRAWING ISSUE

36D JJR PJS RHP

SHEET NOTES:

1. OPTION YT IS SHOWN ON SD-65752-01.
2. OPTION Z IS SHOWN ON SD-66920-01.

36

PBX CABLING DIAGRAM (2)

SD-65746-01-G112

BELL TELEPHONE LABORATORIES INCORPORATED

DWG SIZE 6S

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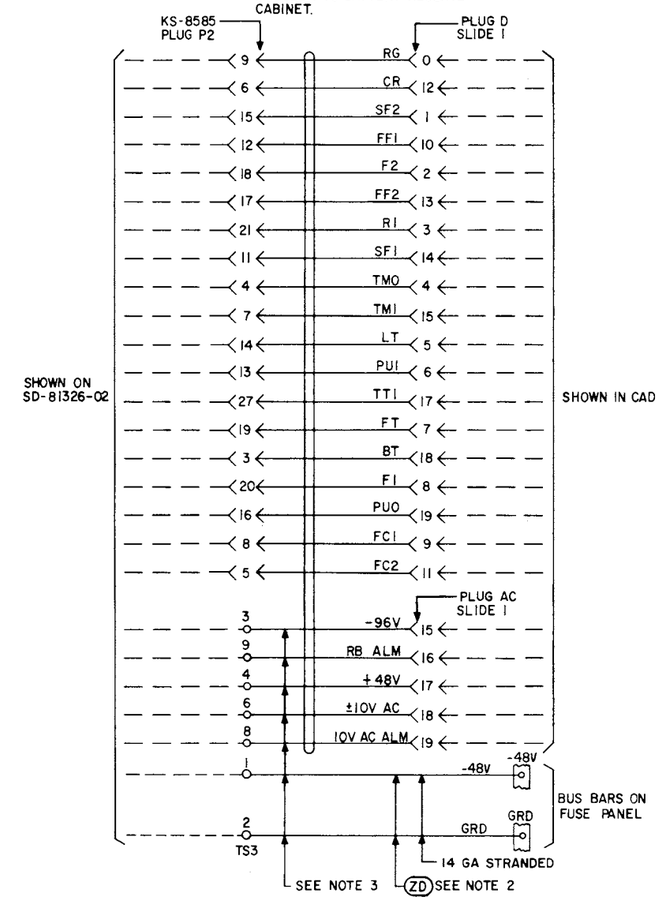
SLIDE I PLUG D PIN NO.	PLT	LEAD DESIG	PLUG AC PIN NO.	SLIDE I PLT	LEAD DESIG
WIBL RG TO CAD 42					
0 BL MULT TO PLUG P PIN 0		*RG	0		
BLIW CR TO CAD 42					
12 BL-W MULT TO PLUG F PIN 7		* CR	12		
WIO SF2 TO CAD 42					
1 O MULT TO PLUG F PIN 1		SF2	1		
OIW FFI TO CAD 42					
10 O-W MULT TO PLUG A PIN 1		FFI	10		
WIG F2 TO CAD 42					
2 G MULT TO PLUG F PIN 2		F2	2		
GIW FF2 TO CAD 42					
13 G-W MULT TO PLUG F PIN 3		FF2	13		
WIBR RI TO CAD 42					
3 BR MULT TO PLUG U PIN 3		*RI	3		
BRIW SFI TO CAD 42					
14 BR-W MULT TO PLUG C PIN 0		SFI	14		
WIS TMO TO CAD 42					
4 S MULT TO PLUG R PIN 8		TMO	4		
SIW TMI TO CAD 42			TO CAD 42		
15 S-W MULT TO PLUG R PIN 17		TMI	B -96 V F.P. 15		-96V
RIBL LT TO CAD 42					
5 R MULT TO PLUG F PIN 5		LT	5		
			TO CAD 42		
SPARE 16		SPARE	2U (RB) REL 16		RB ALM
RIO PUI TO CAD 42					
6 BK MULT TO PLUG R PIN 6		PUI	6		
OIR TTI TO CAD 42			TO CAD 42		
17 BK-W MULT TO PLUG K PIN 17		TTI	B +48V F.P. 17		+48V
RIG FT TO CAD 42					
7 R-G MULT TO PLUG F PIN 18		FT	7		
GIR BT TO CAD 42			TO CAD 42		
18 R-S MULT TO PLUG J PIN 19		BT	1 (BCO) REL 18		± 10V AC
RIBR FI TO CAD 42					
8 R-BL-W MULT TO PLUG F PIN 6		FI	8		
BRIR PUO TO CAD 42			TO CAD 42		
19 R-O-W MULT TO PLUG R PIN 19		PUO	2T (S) VAR 19		10V AC ALM
			(ZD) SEE NOTE 2		
RIS FCI TO CAD 42					
9 R-G-W BAT (FCI) FUSE		FCI	9		
			22 GA STRANDED		
SIR FC2 TO CAD 42					
11 R-BR-W BAT (FC2) FUSE		FC2	11		

(ZE) CAD 41

LEADS TO BATTERY RESERVE CABINET

(ZE) CAD 42

HOUSE & FEEDER CABLE FROM MODULE 1 TO BATTERY RESERVE CABINET.



SHEET NOTES

1. *DENOTES RINGING LEADS.
2. OPTION "ZD" IS SHOWN ON SD-66796-01.
3. TO BE CONNECTED TO TS 3 BY INSTALLER.

DRAWING ISSUE		
38D	JJR P/S RHP	H.W.
41D	WGN RHP	

41

PBX CABLING DIAGRAM (2) SD-65746-01-G113

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SLIDE 1 PLUG N PIN NO	PLT	SLIDE 2 PLUG PIN NO	PLT	SLIDE 3 PLUG A PIN NO	SLIDE 4 PLUG A PIN NO	SLIDE 5	SLIDE 6 PLUG AJ PIN NO	PLT	LEAD DESIG
		PLUG A							
		(VH) SEE NOTE 2		(VJ) SEE NOTE 2	(VJ) SEE NOTE 2				
		6B (TU3) 17	M	(VH) SEE NOTE 2 6 (TU4) 17	6 (TU6) 16				TPB
			M		M				TPA
		PLUG B		6B (TU5) 16	M				
		(ZB)							
		(REG 0)LP 5	AB				8B (SR) 5	B	RHMO (REG 0)
		(REG 1)LP 16	AB				8B (SR) 16	E	RHMI (REG 1)
							(XF) SEE NOTE 1		
(WT) SEE NOTE 2									
2L (COAL) 7	AB						3B (LT2) 7	P	COA
2U (XCAL) 18	AB						8M (XC) 18	P	XCA
							(WT) SEE NOTE 2		

PART OF CAD 1

INTERSLIDE LEADS FOR 756A PBX

DRAWING ISSUE		
41D	MGN RHP	HW
42B	EMM PJS LDJ	

SHEET NOTES:

1. OPTION XF IS SHOWN ON SD-65742-01.
2. OPTIONS WT, VJ, AND VH ARE SHOWN ON SD-65741-01.

42

PBX CABLING DIAGRAM (2)

SD-65746-01-G114

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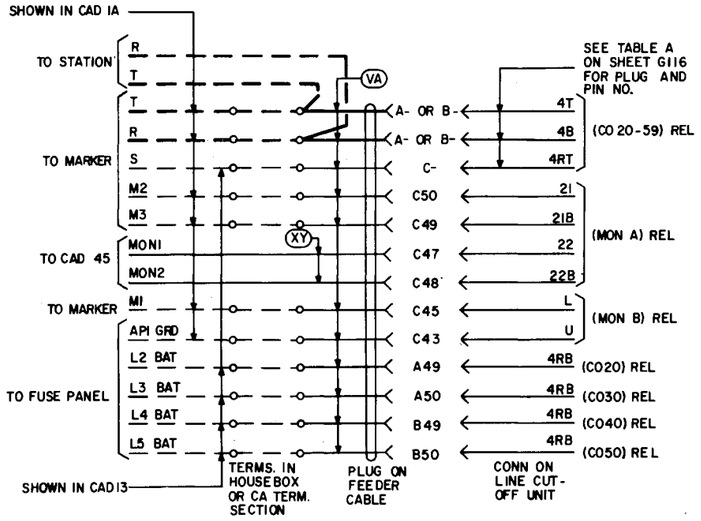
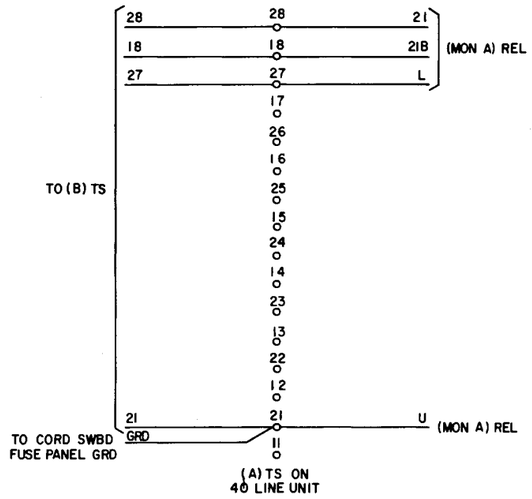
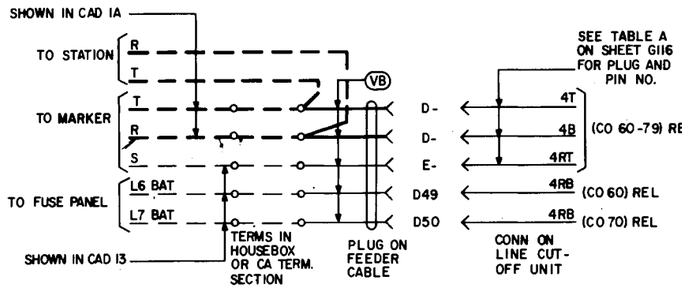
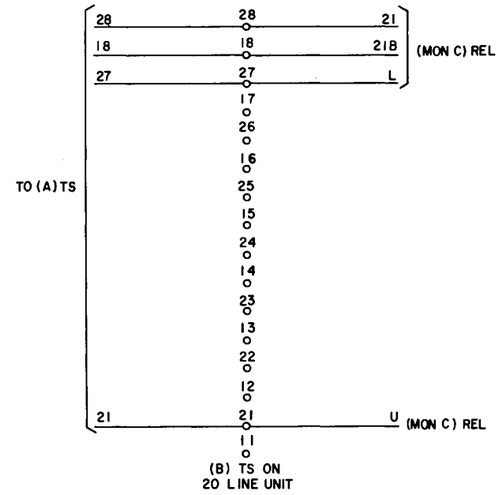
CAD 43

FOR USE WHEN 608A OR D
SWBD (3 WIRE JACK) LINE CUT-OFF
UNIT CONNECTS TO 756A PBX









DRAWING ISSUE
42B EMM PJS LDJ

HW

SD-65746-01-G115

42

PBX CABLING DIAGRAM (2)

SD-65746-01-G115

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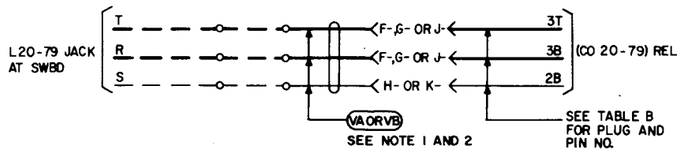
CAD 44

FOR USE WHEN LINE CUT-OFF UNIT CONNECTS TO 608A OR D SWBD (3 WIRE JACK)



CAD 45

FOR USE WHEN STA CONT CONF CKT IS USED WITH 608A OR D SWBD

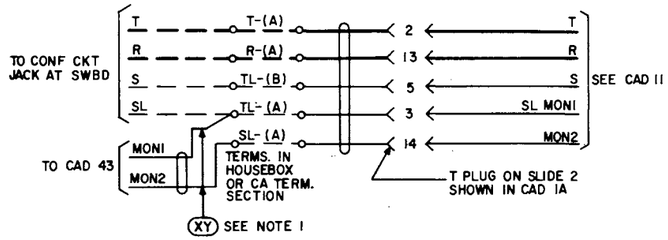


TABLE A

PLUG, PIN NO., AND CABLE LEAD COLOR FOR LEADS RUN TO THE 756A PBX HOUSE BOX OR CABLE TERM. SECT.

(VA) BASIC 40 LINE UNIT

"CF" TYPE T INK COLOR CODED CA		BLUE BINDER				ORANGE BINDER				GREEN BINDER			
LEAD COLOR		PAIR NO.	STA NO.	DESIG	PLUG PIN NO.	PAIR NO.	STA NO.	DESIG	PLUG PIN NO.	PAIR NO.	STA NO.	DESIG	PLUG PIN NO.
TIP	RING												
WIBL	BLIW	1	20	T-R	A1-2	1	40	T-R	B1-2	1	20-21	S	C1-2
WIO	OIW	2	21	T-R	3-4	2	41	T-R	3-4	2	22-23	S	3-4
WIG	GIW	3	22	T-R	5-6	3	42	T-R	5-6	3	24-25	S	5-6
WIBR	BRIW	4	23	T-R	7-8	4	43	T-R	7-8	4	26-27	S	7-8
WIS	SIW	5	24	T-R	9-10	5	44	T-R	9-10	5	28-29	S	9-10
RIBL	BLIR	6	25	T-R	11-12	6	45	T-R	11-12	6	30-31	S	11-12
RIO	OIR	7	26	T-R	13-14	7	46	T-R	13-14	7	32-33	S	13-14
RIG	GIR	8	27	T-R	15-16	8	47	T-R	15-16	8	34-35	S	15-16
RIBR	BRIR	9	28	T-R	17-18	9	48	T-R	17-18	9	36-37	S	17-18
RIS	SIR	10	29	T-R	19-20	10	49	T-R	19-20	10	38-39	S	19-20
BKIBL	BLIBK	11	30	T-R	21-22	11	50	T-R	21-22	11	40-41	S	21-22
BKIO	OIBK	12	31	T-R	23-24	12	51	T-R	23-24	12	42-43	S	23-24
BKIG	GIBK	13	32	T-R	25-26	13	52	T-R	25-26	13	44-45	S	25-26
BKIBR	BRIBK	14	33	T-R	27-28	14	53	T-R	27-28	14	46-47	S	27-28
BKIS	SIBK	15	34	T-R	29-30	15	54	T-R	29-30	15	48-49	S	29-30
YIBL	BLIY	16	35	T-R	31-32	16	55	T-R	31-32	16	50-51	S	31-32
YIO	OIY	17	36	T-R	33-34	17	56	T-R	33-34	17	52-53	S	33-34
YIG	GIY	18	37	T-R	35-36	18	57	T-R	35-36	18	54-55	S	35-36
YIBR	BRIY	19	38	T-R	37-38	19	58	T-R	37-38	19	56-57	S	37-38
YIS	SIY	20	39	T-R	39-40	20	59	T-R	39-40	20	58-59	S	39-40
VIBL	BLIV	21				21				21			
VIO	OIV	22				22				22	GRD	API-	43-
VIG	GIV	23				23				23	MKR	MI-	45-
VIBR	BRIV	24				24				24	SDC	MONI	47-48
VIS	SIV	25	BAT	L2,L3	49-50	25	BAT	L4,L5	49-50	25	MKR	M3,M2	49-50

(VB) SUPP 20 LINE UNIT

BLUE BINDER				ORANGE BINDER			
PAIR NO.	STA NO.	DESIG	PLUG PIN NO.	PAIR NO.	STA NO.	DESIG	PLUG PIN NO.
1	60	T-R	D1-2	1	60-61	S	E1-2
2	61	T-R	3-4	2	62-63	S	3-4
3	62	T-R	5-6	3	64-65	S	5-6
4	63	T-R	7-8	4	66-67	S	7-8
5	64	T-R	9-10	5	68-69	S	9-10
6	65	T-R	11-12	6	70-71	S	11-12
7	66	T-R	13-14	7	72-73	S	13-14
8	67	T-R	15-16	8	74-75	S	15-16
9	68	T-R	17-18	9	76-77	S	17-18
10	69	T-R	19-20	10	78-79	S	19-20
11	70	T-R	21-22	11			
12	71	T-R	23-24	12			
13	72	T-R	25-26	13			
14	73	T-R	27-28	14			
15	74	T-R	29-30	15			
16	75	T-R	31-32	16			
17	76	T-R	33-34	17			
18	77	T-R	35-36	18			
19	78	T-R	37-38	19			
20	79	T-R	39-40	20			
21				21			
22				22			
23				23			
24				24			
25	BAT	L6,L7	49-50	25			

TABLE B

PLUG, PIN NO., AND CABLE LEAD COLOR FOR LEADS RUN TO THE 608 SWITCHBOARD HOUSE BOX OR DIRECT

(VA) BASIC 40 LINE UNIT

"CF" TYPE T INK COLOR CODED CA		BLUE BINDER				ORANGE BINDER				GREEN BINDER			
LEAD COLOR		PAIR NO.	STA NO.	DESIG	PLUG PIN NO.	PAIR NO.	STA NO.	DESIG	PLUG PIN NO.	PAIR NO.	STA NO.	DESIG	PLUG PIN NO.
TIP	RING												
WIBL	BLIW	1	20	T-R	F1-2	1	40	T-R	G1-2	1	20-21	S	H1-2
WIO	OIW	2	21	T-R	3-4	2	41	T-R	3-4	2	22-23	S	3-4
WIG	GIW	3	22	T-R	5-6	3	42	T-R	5-6	3	24-25	S	5-6
WIBR	BRIW	4	23	T-R	7-8	4	43	T-R	7-8	4	26-27	S	7-8
WIS	SIW	5	24	T-R	9-10	5	44	T-R	9-10	5	28-29	S	9-10
RIBL	BLIR	6	25	T-R	11-12	6	45	T-R	11-12	6	30-31	S	11-12
RIO	OIR	7	26	T-R	13-14	7	46	T-R	13-14	7	32-33	S	13-14
RIG	GIR	8	27	T-R	15-16	8	47	T-R	15-16	8	34-35	S	15-16
RIBR	BRIR	9	28	T-R	17-18	9	48	T-R	17-18	9	36-37	S	17-18
RIS	SIR	10	29	T-R	19-20	10	49	T-R	19-20	10	38-39	S	19-20
BKIBL	BLIBK	11	30	T-R	21-22	11	50	T-R	21-22	11	40-41	S	21-22
BKIO	OIBK	12	31	T-R	23-24	12	51	T-R	23-24	12	42-43	S	23-24
BKIG	GIBK	13	32	T-R	25-26	13	52	T-R	25-26	13	44-45	S	25-26
BKIBR	BRIBK	14	33	T-R	27-28	14	53	T-R	27-28	14	46-47	S	27-28
BKIS	SIBK	15	34	T-R	29-30	15	54	T-R	29-30	15	48-49	S	29-30
YIBL	BLIY	16	35	T-R	31-32	16	55	T-R	31-32	16	50-51	S	31-32
YIO	OIY	17	36	T-R	33-34	17	56	T-R	33-34	17	52-53	S	33-34
YIG	GIY	18	37	T-R	35-36	18	57	T-R	35-36	18	54-55	S	35-36
YIBR	BRIY	19	38	T-R	37-38	19	58	T-R	37-38	19	56-57	S	37-38
YIS	SIY	20	39	T-R	39-40	20	59	T-R	39-40	20	58-59	S	39-40
VIBL	BLIV	21				21				21			
VIO	OIV	22				22				22			
VIG	GIV	23				23				23			
VIBR	BRIV	24				24				24			
VIS	SIV	25				25				25			

(VB) SUPP 20 LINE UNIT

BLUE BINDER				ORANGE BINDER			
PAIR NO.	STA NO.	DESIG	PLUG PIN NO.	PAIR NO.	STA NO.	DESIG	PLUG PIN NO.
1	60	T-R	J1-2	1	60-61	S	K1-2
2	61	T-R	3-4	2	62-63	S	3-4
3	62	T-R	5-6	3	64-65	S	5-6
4	63	T-R	7-8	4	66-67	S	7-8
5	64	T-R	9-10	5	68-69	S	9-10
6	65	T-R	11-12	6	70-71	S	11-12
7	66	T-R	13-14	7	72-73	S	13-14
8	67	T-R	15-16	8	74-75	S	15-16
9	68	T-R	17-18	9	76-77	S	17-18
10	69	T-R	19-20	10	78-79	S	19-20
11	70	T-R	21-22	11			
12	71	T-R	23-24	12			
13	72	T-R	25-26	13			
14	73	T-R	27-28	14			
15	74	T-R	29-30	15			
16	75	T-R	31-32	16			
17	76	T-R	33-34	17			
18	77	T-R	35-36	18			
19	78	T-R	37-38	19			
20	79	T-R	39-40	20			
21				21			
22				22			
23				23			
24				24			
25				25			

NOTES:
1. OPTIONS XY, VA AND VB ARE SHOWN ON SD-65741-01.
2. OPTION VA FOR LINES 20-59.
   OPTION VB FOR LINES 60-79.

PBX CABLING DIAGRAM (2)

SD-65746-01-G116

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SHEET INDEX

SHEET NO.	CONTENTS
1	SHEET INDEX SUPPORTING INFO WORKING LIMITS CIRCUIT NOTES EQUIPMENT NOTES INFORMATION NOTES
2	FS 1 TRUNK CIRCUIT APP FIG. 1,2 & 3 FS 2 ISOLATION AMPLIFIER
3	CIRCUIT REQT TABLE CAD. 1,2,3
4	CAD 4

CIRCUIT NOTES:

101.

DESIG	FUSE AMP	POTENTIAL	ONE PER	TERM. DESIG
	1-1/3	-48V TALK	CKT	

BATTERY SYMBOL	VOLTAGE RANGE
-48	45-52V

102.

FEATURE OR OPTION			PROVIDE: APP FIG.	PROVIDE: APP OR WIRING	QUANTITY
TRUNK CKT MANUALLY SELECTED IN 756A	PICK-UP REQ'D ON	1ST ATTENDANT EQUIPMENT	1	X	
		2ND ATTENDANT EQUIPMENT		W	
		6 BUTTON KEY TEL SET		Y	
TRUNK CKT DIAL SELECTED IN 756A				V	
FOR USE IN SW SYS 400			1		
FOR USE IN 800A PBX			1,2		
ISOLATION AMPLIFIER FOR ONE-WAY TRANSMISSION		REQUIRED	3	N	1 PER TRK
		NOT REQUIRED		Q	

103.

NETWORK VALUES		
NETWORK NO.	RESISTANCE IN OHMS	CAPACITANCE IN UF

104.

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	
4D	V	Z		V		Z	
4D	T	NONE		T			
7B	R OR S	S		R		S	
7B	FIG. 2	NONE	102	FIG. 2			
8B	APP FIG. 3 Q OR N	Q	102	FIG. 3 Q, N			

EQUIPMENT NOTES :

201. CAD.2 WAS ADDED ON ISSUE 5D.
202. CAD.3 WAS ADDED ON ISSUE 6D.
203. CAD.4 WAS ADDED ON ISSUE 7B.

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.

SUPPORTING INFORMATION

CATEGORY	NO.
NO. 756A PBX CABLING DIAGRAM	SD-65746-01
EQUIPMENT INFORMATION	J58829W-( )

DWG ISSUE	CD ISSUE	DATE ISSUED	DRAWN	APPD
1	1	3-27-57	V.C.G. F.Q.S.	R.A.P. H.H.A.
2D	2D	1-3-58	M.G. W.S.	W.V.S. H.H.A.
3D	3D	1-2-59	J.F. W.V.H.	W.V.S. P.W.S.
4D	4D	1-22-60	M.E.H. W.V.S.	W.V.I. P.W.S.
5D	5D	5-12-60	E.M.F. R.T.R.	H.G.D. P.W.S.
6D	5D APP ID	11-1-62	Rem. W.V.H.	P.B. W.V.S.
7B	5D APP 2B	2-25-66	R.O.Z. SAK JFF	H.E.D. R.A.V. G.F.H.
8B	5D APP 3B	4-3-67	R.O.Z. P.J.S. A.R.R.	H.E.D. L.A.H. R.H.P.

WORKING LIMITS

MAX. EXT CKT LOOP	1885
MIN. INS RES	20,000

REPLACING ES-944149

SD-65747-01

PBX SYSTEMS

NO. 756A, 800A OR SWITCHING SYSTEM NO. 400 LOUD SPEAKER PAGING TRUNK CIRCUIT

(2)

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AT&TCO STANDARD

8

SD-65747-01-1

4 SHEETS

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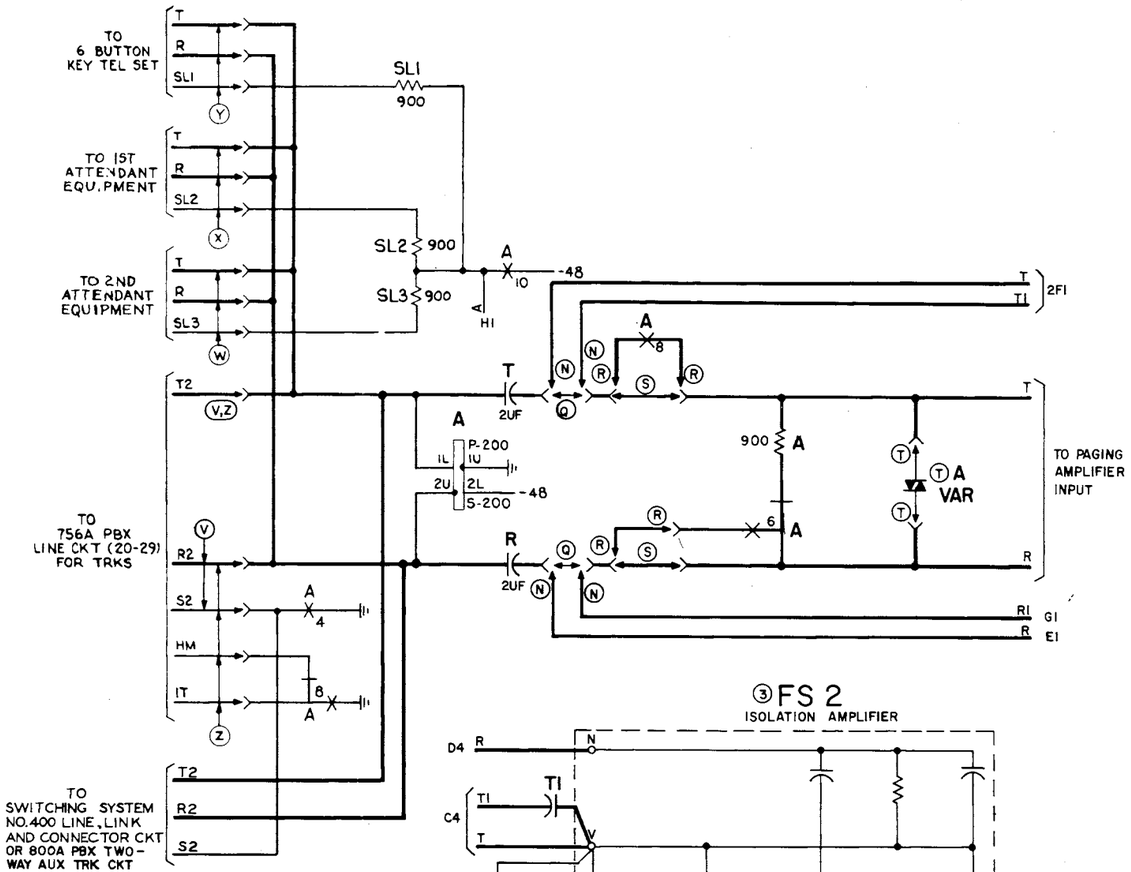
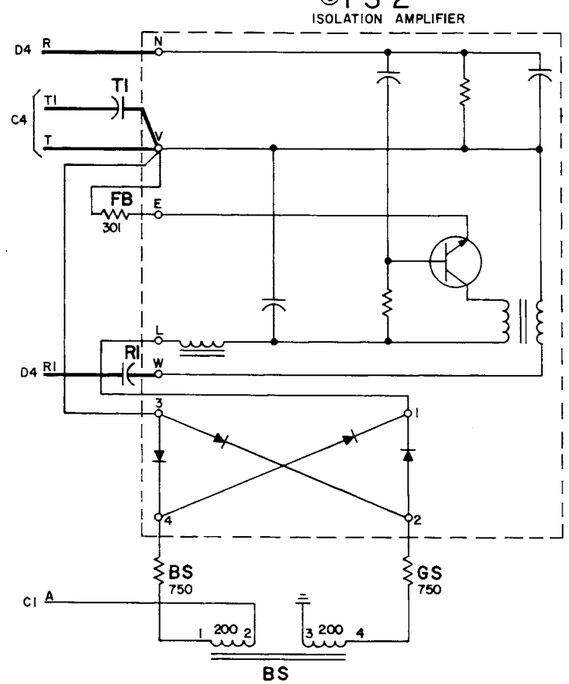
FS 1
TRUNK CIRCUIT



③FS 2
ISOLATION AMPLIFIER



APP FIG. 1

RELAY

DESIG	A				
CODE	AJ57				
OPTION					
	CONT ARR	LOC			
12					
11					
10	M	C2			
9					
8	EBM	a			
7					
6	EBM	D2			
5					
4	M	D1			
3					
2					
1					
COIL		D1			

a (Z) E1, (R) C2

CAPACITOR

	DESIG	LOC	CODE
[1]	R	D2	437E
	T	C2	

RESISTOR

	DESIG	LOC	CODE
	A	D2	18FB
	SLI	BI	18FB
[1]	SL2	CI	19BA
	SL3		

VARISTOR

	DESIG	LOC	CODE
(T)	A	D3	33L

APP FIG. 2

CONN CABLE

DESIG	LOC	CODE
		ED-1E073-01-G1

APP FIG. 3

AMPLIFIER

DESIG	LOC	CODE
ISOL	F3	151D

CAPACITOR

	DESIG	LOC	CODE
[1]	RI	F2	437E
	TI	E2	

INDUCTOR

DESIG	LOC	CODE
BS	H3	274L

RESISTOR

DESIG	LOC	CODE
BS	H2	18DR
FB	F2	144E 301Ω
GS	H3	18DR

DRAWING ISSUE

1	WS
2D	WS
3D	PD
4D	FC
5D	FC
6D	N
7B	HW
8B	J W

LOUD SPEAKER PAGING TRUNK CIRCUIT

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SD-65747-01-2

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CIRCUIT REQUIREMENTS

APPARATUS DESIG	APPARATUS CODE	APPARATUS OPTION	APPARATUS FIG	MECH REQT BSP FIG	MECH REQT CONT PRESS	MECH REQT ARM. TRVL	CIRCUIT PREPARATION BLOCK OR INSULATE	TEST CLIP DATA CONN BAT	TEST CLIP DATA CONN GRD	TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT TEST WDG	TEST FOR	AFTER SOAK MA.	TEST MA.	READJ MA.	REMARKS
RELAYS																	
A	4J57		1	237				1L(A)	2U(A)	M		P/S	O		20.0	19	
								1L(A)	2U(A)	M		P/S	R		2.5	2.7	

DRAWING ISSUE	
1	V.G. K.G.S.
2	M.G. W.S.
3D	J.F. W.H.
4D	H.C.H.
5D	E.M.T. R.T.R.
6D	E.M.T. W.H. P.D.
7B	R.O.Z. S.A.K. G.F.H.
8B	R.O.Z. R.H.P.

SD-65747-01-3

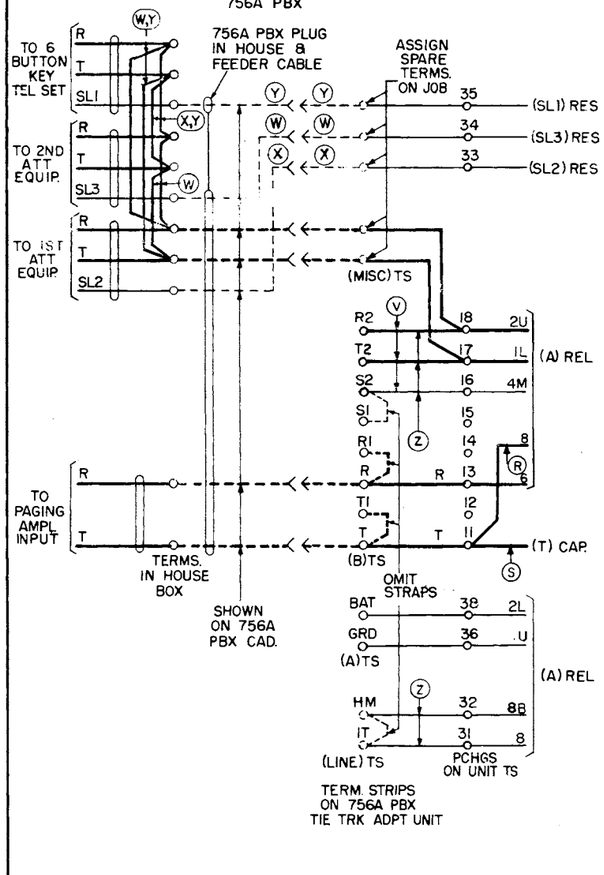
LOUD SPEAKER PAGING TRUNK CIRCUIT

BELL TELEPHONE LABORATORIES INCORPORATED

SD-65747-01-3

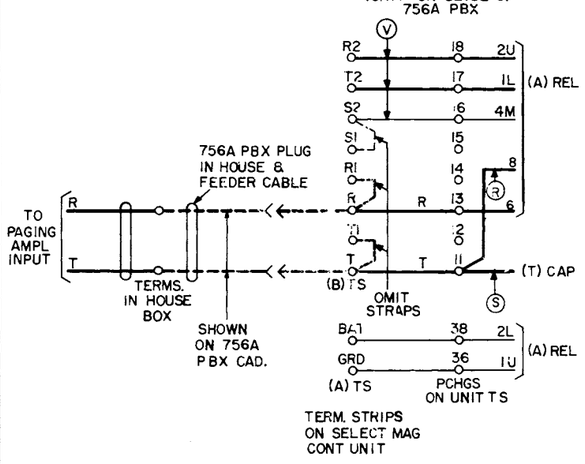
CAD. 1

(UNIT ON SLIDE 2)
756A PBX



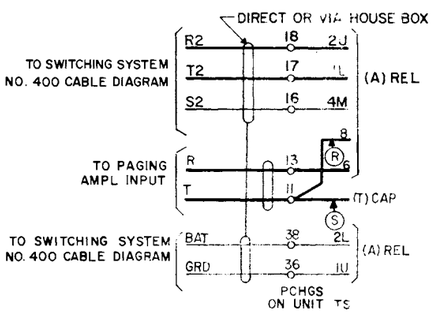
CAD. 2

TRUNK DIAL SELECTED ONLY
(UNIT ON SLIDE 3)
756A PBX



CAD. 3

TRUNK DIAL SELECTED ONLY
SWITCHING SYSTEM NO. 400



DRAWING ISSUE	
1	V.G. K.G.S.
2D	M.G. W.S.
3D	J.F. W.H.
4D	H.C.H.
5D	E.M.T. R.T.R.
6D	E.M.T. W.H. P.D.
7B	R.O.Z. S.A.K. G.F.H.
8B	R.O.Z. P.J.S. R.H.P.

LOUD SPEAKER PAGING TRUNK CIRCUIT

BELL TELEPHONE LABORATORIES INCORPORATED

SD-65747-01-3

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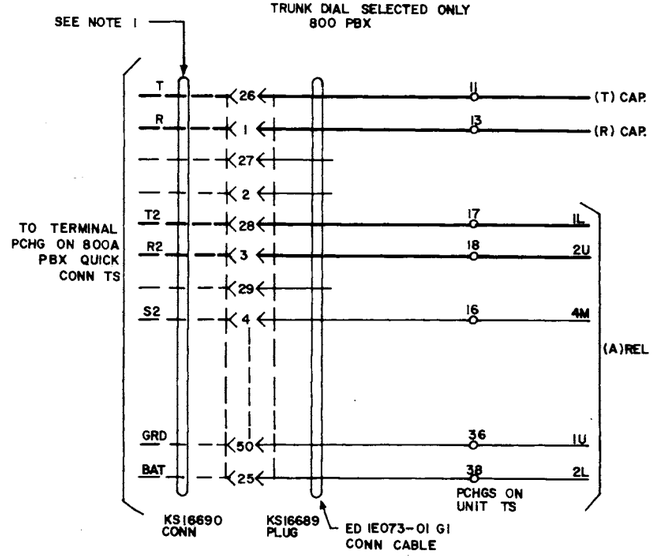
CAD 4

TRUNK DIAL SELECTED ONLY
800 PBX



NOTES

1. THIS CABLE IS NOT INCLUDED WITH THE 800A PBX QUICK CONNECT FIELD, IT MUST BE SUPPLIED LOCALLY.

DRAWING ISSUE

7B	ROZ 5AK GFH	HW Parts
8	ROZ PJS RHF	

8

LOUD SPEAKER PAGING TRUNK CIRCUIT (2)

SD-65747-01-4

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SHEET INDEX

SHEET NO.	CONTENTS
1	SHEET INDEX SUPPORTING INFO TRANSMISSION TEST REQ TABLE WORKING LIMITS CIRCUIT NOTES EQUIPMENT NOTES OPTION INDEX
2	FS 1 JUNCTOR CIRCUIT
3	APP FIG. 1 SC 1 SEIZURE & RINGING SC 2 RING TIP & CUT THRU SC 3 DISCONNECT CKT REQ TABLE

OPTION INDEX

APP OR WIRING	LOCATION
Z	2A5, 2B4
Y	2B4
X	2C5
W	2C5
V	2B2, 2C3
T	2B2, 2C3
S	2G2

CIRCUIT NOTES:

101.

DESIG	FUSE AMP	POTENTIAL	ONE PER	TERM. DESIG
JT	1-1/3	-48 TALK	JUNCTOR CKT	

BATTERY SYMBOL	VOLTAGE RANGE
-48 20~	45-52V 75-110V AC, 45-52V DC

102.

FEATURE OR OPTION		PROVIDE		
		APP FIG.	APP OR WIRING	QUANTITY
JUNCTOR CIRCUIT		1		1 PER CKT
3A CODE CALL CKT PROVIDED WITH 756A PBX (SEE NOTE 202)	YES		W	1 PER CKT
	NO		X	1 PER CKT

103.

RECORD OF APP FIGURES, WIRING AND APPARATUS CHANGES								
CHANGES ON ISS	IF JOB RECORDS DO NOT SPECIFY	THIS OPTION WAS FURN	SEE NOTE	USE IN CIRCUIT			
				STD	A&M	MD	
4D	Y OR Z	Z		Y		Z	
5B	W OR X	W	102	W&X			
6B	T OR V			T		V	
7D	S	NONE		S			

SUPPORTING INFORMATION

CATEGORY	NO.
CABLING DIAGRAM EQUIPMENT DRAWINGS	SD-65746-01 ED-65870-01

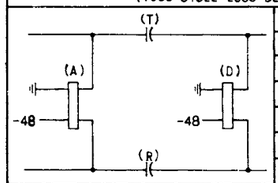
EQUIPMENT NOTES:

201. CAPACITORS DESIGNATED (T) AND (R) SHALL MATCH WITHIN 0.1 UF.

202. WHEN 3A CODE CALL IS SPECIFIED, "X" WIRING SHALL BE DISCONNECTED AT THE (D) RELAY BY THE INSTALLER.

DWG ISSUE	CD ISSUE	DATE ISSUED	APPROVED
1	1	4/30/54	E D G: R A P F G S: H N A
2D	2D	5/29/57	CFL: R A P HP: H M A
3D	2D APP ID	9-24-57	O C R: R S W G W W: M H A
4D	3D	4-20-59	JB: W V S HAE: P W S
5B	4B	6-3-63	EWB: L E T KEB: N F H P D
6B	4B APP 1B	9-13-63	R.T.: H G S N F H W L N: P D
7D	4B APP 2D	5-16-67	BCM: J J M PJS: L A H UT: R H P

TRANSMISSION TEST REQUIREMENTS
(1000 CYCLE LOSS BETWEEN 600Ω LINES)



MAX. ALLOWABLE CIRCUIT LOSS (db)
0.4

ALLOWABLE INDIVIDUAL APPARATUS LOSSES (db)

APPARATUS	DESIG	CODE	MAX. LOSS	MIN. LOSS	REMARKS
CAPACITORS	T,R	2UF	13.7	11.7	SEE NOTE 1
RELAYS	A,D		0.1		

NOTES:

1. THE INDIVIDUAL LOSSES FOR THE (T) AND (R) CAPACITORS SHALL BE WITHIN 0.5 db OF EACH OTHER.

WORKING LIMITS
MAX. EXT CKT LOOP RES-1410
MIN. INS RES-20,000

PBX SYSTEMS
NO. 756A
JUNCTOR CIRCUIT

AT&TCO STANDARD

(2) (JTR)

SD-65750-01-1
3 SHEETS

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FS I
JUNCTOR CIRCUIT

TO POWER SUPPLY CIRCUIT

ORIGINATING

TERMINATING

TO
T
2UF
(Y,Z)
TT
P
RO
R
2UF
RT
SO
ST
LI
LO
L9
L2
0 1 2 3 4 5
THM
HOLD
-48 JT JT-BAT
SMT-
OHM-
JT
LINE LINK AND MARKER CIRCUIT

MS
RING
RI
(Z)
11 B
5 TP
JT
7 TP
10 A
TP
1U SO 1L P-220
(W,X) TP 2U 2L JT -48 S-1150
12
6 B JT
10 D
(X)
JT

A 1L 1U JT P-400
D 8
D 6
2U 2L JT -48 S-400
B 12 (V) (T)
D 1L 1U JT P-400
2U 2L JT -48 S-400
9 TP
A 0.04 UF
A 100 100 JT
B 4
B 2
D 4
B A 2 U SR L JT 2000 -48 JT

ORIG. MAKE BUSY & BUSY DISPLAY CIRCUIT
OHM- -96
TERM.
JCTR-
-96
THM-
8 B JT
2 D JT
SMT-

B 10 JT (S)

DRAWING ISSUE		
1	LOG	
	FGS	
2D	CFL	
	HP	
3D	GCM	
	CW	
4D	JJ	
	KAE	
5B	EWB	
	KEB	
	PD	
6B	R.T.	
	WVH	
	P.D.	
7D	BCM	
	PJS	
	RHP	

JUNCTOR CIRCUIT (2) SD-65750-01-2

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CIRCUIT REQUIREMENTS

756A PBX JUNCTOR CIRCUIT (JTR)

APPARATUS DESIG	CODE	OPTION	FIG.	MECH REQT BSP FIG.	MECH REQT CONT PRESS.	MECH REQT ARM. TRVL.	CIRCUIT PREPARATION BLOCK OR INSULATE	TEST CLIP DATA CONN BAT	TEST CLIP DATA CONN GRD	TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT TEST WDG	TEST FOR	AFTER SOAK MA.	TEST MA.	READJ MA.	REMARKS
RELAYS																	
A	AJ52		1	303				1L(A)	2U(A)	M		P/S	0		13.3	12.6	
								1L(A)	2U(A)	M		P/S	R		3.1	3.3	
B	AG18		1	488					1U(B)	GRD		P	0	20	8	7.6	
									1U(B)	GRD		P	H	20	1.5	1.4	
									1U(B)	GRD		P	R	20	0.7	0.9	
D	AJ52		1	303				1L(D)	2U(D)	M		P/S	0		13.3	12.6	
								1L(D)	2U(D)	M		P/S	R		3.1	3.3	
TP	AJ49		1	302				1L(TP)	1U(TP)	B/G		P	0		28	26.5	
								1L(TP)	1U(TP)	B/G		P	NO		20	21.5	
									2U(TP)	GRD		S	0		19		

DRAWING ISSUE

1	W.S.
2D	RAC
3D	RAC
4D	RAC
5B	EWB
6B	R.T. WVH P.D.
7D	BCM PJS RHP

(PAGES) PAGE

SD-65750-01-3

JUNCTOR CIRCUIT | SD-65750-01-3

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APP FIG. 1

RELAY

DESIG	A		B		D		TP					DESIG
CODE	AJ52		AG18		AJ52		AJ49					CODE
OPTION												OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12			M	2C3			EM	2C6					12
11			M	2A5									11
10	M	2B6	M	2G2	M	2C5							10
9							BM	2D5					9
8	EMB		M	2G6	EMB	2C3							8
7			B	-			BM	2B6					7
6	EMB		M	2C5	EMB	2C2							6
5							BM	2A5					5
4	EBM		M	2E2	EBM	2E5							4
3													3
2	M	2F3	M	2E5	M	2G6							2
1			M	2B2									1
COIL		2C3		2F3		2C4		2C6					COIL

CAPACITOR

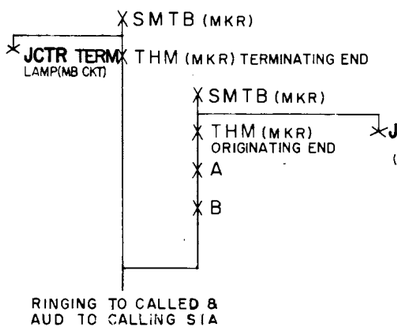
	DESIG	LOC	CODE
	A	2D5	441U
[1]	R	2D3	437E
	T	2B3	

RESISTOR

DESIG	LOC	CODE
A	2E3	19FG

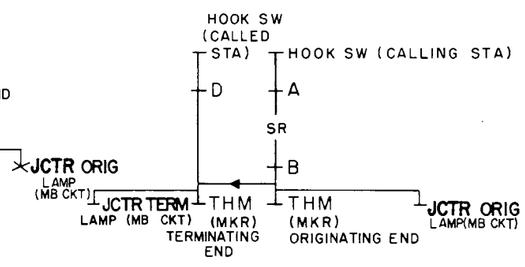
SC1

SEIZURE & RINGING



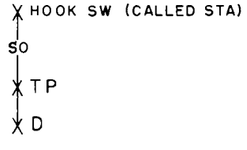
SC3

DISCONNECT
(X OPTION)



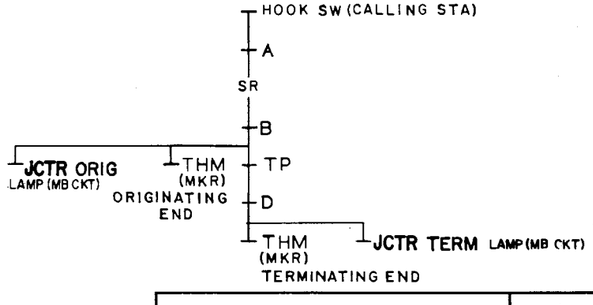
SC2

RING TIP & CUT THRU



SC4

DISCONNECT
(W OPTION)



7

JUNCTOR CIRCUIT (2) | SD-65750-01-3

BELL TELEPHONE LABORATORIES, INC | DWG SIZE 6S

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BELL TELEPHONE LABORATORIES, INCORPORATED

E-8460-1 (1-66)

PRODUCT AFFECTED/TITLE

TWO-WAY TRUNK CIRCUIT TO CENTRAL OFFICE

SYSTEM: PBX

LDI ISSUE 28A

CODE OR DOCUMENT IDENTIFICATION: SD-65752-01

APPARATUS ☐ EQUIPMENT ☐ CIRCUIT ☒ PROGRAM ☐

NEW ☐ CHANGE ☒

WECO ENGR CONTROL LOC HW

REFERENCES

SHEET 1 OF 2

APPARATUS NEW CODE

☐ COMPLETE ☐ PARTIAL — BALANCE SCHEDULED FOR _____

PROBABLE DEMAND _____ ☐ REPLACES THE _____ WHICH SHALL BE RATED _____

☐ DOES NOT REPLACE OR REDUCE THE DEMAND FOR ANY PRODUCT

☐ DOES NOT REPLACE BUT REDUCES DEMAND FOR THE _____ BY _____

CUSTOMER: ☐ ASSOCIATE ☐ NON-ASSOCIATE

RATING: ☐ PROPOSED AT&TCO STD ☐ DISTRIBUTOR STD ☐ COMPONENT PART ☐ NOT YET STD BY AT&TCO ☐ OTHER _____

INITIAL USE:

APPARATUS CHANGE CHANGE CLASS _____

NEW AND OLD INTERCHANGEABLE

☐ YES ☐ NO

CHANGE IN LIST OF COMPONENT APPARATUS:

REPAIRED PRODUCT AFFECTED

☐ YES ☐ NO

APPARATUS GENERAL

TOOL MADE SAMPLES: QUANTITY REQUIRED _____ ☐ WILL BE RETAINED BY BTL ☐ WILL BE RETURNED TO APPLY ON ORDERS

PRODUCT ☐ MAY BE ☐ SHALL NOT BE SHIPPED PRIOR TO TOOL-MADE SAMPLE APPROVAL

ASSOCIATED SD DWG ☐ AFFECTED ☐ NOT AFFECTED SD _____ SCHED. FOR ISS. _____

EQUIPMENT

CHANGE CLASS _____

AT&TCO RATING _____

ASSOCIATED CIRCUIT SCHEMATIC DWG _____ ISS _____

REPAIRED PRODUCT AFFECTED

☐ YES ☐ NO

CIRCUIT SCHEDULED FOR DWG ISS 31A DATE _____

CHANGE CLASS A

ITEMS 1 PROJECT 756A EQUIPMENT CODES:

TYPE OF CHANGE CHARGE CASE _____

☒ ANALYZATION ☐ ENGR COMPLAINT

☐ BTL—NOT ON PROJECT ☐ WECO REQUEST

SERVICE AFFECTED ☐ YES ☒ NO

COORDINATING CIRCUITS:

PROGRAM

CHANGE CLASS _____

GENERIC PROGRAM ISS _____

AT&TCO. RATING _____

EQUIPMENT CODES:

CHANGE/DESCRIPTION

THE FOLLOWING ITEM IS ADDED TO PREVENT A RACE CONDITION IN THE TRUNK CIRCUIT WHICH CAN RESULT IN THE TRUNK FAILING TO RELEASE WHEN THE CENTRAL OFFICE DISCONNECTS FROM AN UNANSWERED CALL TO A PBX STATION. THE FORGOING CHANGE APPLIES TO NEW MANUFACTURE AND IS NON-FIELD AFFECTING.

ITEM 1: OPTION XI IS DESIGNATED AND RATED MANUFACTURE DISCONTINUED. OPTION XJ IS ADDED AND RATED STANDARD. OPTION XJ ADDS 11M CONTACT OF RELAY SR WHICH OPENS THE SECONDARY WINDING OF RELAY RS, THUS PROVIDING A FAST RELEASE CHARACTERISTIC OF RELAY RS UPON CENTRAL OFFICE DISCONNECTION.

ATTACHMENTS

NONE

ADDITIONAL DISTRIBUTION

NONE

REG | L

(TO BE COMPLETED BY WECO)

PRINCIPAL DWG ISSUE

ENGR _____ LOC _____ TEL _____ DATE _____

APPROVALS DEPT 5122 BTL CONTROL LOC WHD-HN

S. H. Adam 9/13/68 CKT ENGR DATE _____ CKT ENGR DATE

R. W. Sinnot 9/13/68 CKT SUPV DATE _____ CKT SUPV DATE

R. H. Olsen 9/13/68 APP EQUIP OR PROG ENGR DATE

K. W. Fox 9/13/68 APP EQUIP OR PROG SUPV DATE

LAB TESTS ☐ BEFORE CKT ISS ☐ DEFERRED ☐ NONE REQUIRED

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PART OF FS 3

CLASS OF SERVICE
(SEE NOTE "A" FOR MULTIPLE DESIGNATIONS)

FS 4

LAMP, BUZZER AND TONE CONTROL & MARKER START

MARKER

COA NT
COB

RPAI HMTBA
RPAO HMTAA TK8 TK9 TKO RSO
RPAO HMTAA TKA8 TKA9 TKAO RSE
RPAI HMTBA

REGISTER 0
REGISTER 1
REGISTER 0
REGISTER 1

TT RCBO TKAO
TT RCBI
COT TLA RCBO
COT TLA RCBI

RS XB 1U 1L P-450 CO -48
2U 2L P-457
MS

BY PQ 5R U L CO -48 875
BY PQ SL N,M HM CO
11,4 9
IC 4C5 5F9

RS Z6,ZH U L CO 48 950 700
RS YJ, YZ
DR YL YM ZJ ZK 2D7 ZB 1F6
DR 2E6
DR E N CO
RT RS RLB ZX 5A9

MC HD TT U L CO -48 700
CL 2F5

TLA M,N X 82 ON 2C6
TLA 12,1
TLA M,N 2U,1L 1U,2L CO -48 2450
ACA 19
A B SEE NOTE 107 L

CORDLESS POSITION CIRCUIT
H U L 2500 -48
H RAC H
AUXILIARY POSITION CIRCUIT
HOLD KEY X,NR

NT U L 700
NT MC ACA NT
NT NT 400 -48 210
DIAL BACK NL KEY
RT 7 CO

RINGING CIRCUIT (INTERRUPTER)
INT 30 IPM FC(1,2)
INT 60 IPM FC(1,2)
INT 120 IPM FC(1,2)
120 IPM TONE

MARKER
TR- TEA -48
U- LUC- TRU- -48

9 RS XJ SR 11 XI XI
-48 CO HD 2
TT 8
SI 11 RS 4
P 10 SF(1,2)
TT 3 RT 3 HD 3 PQ BY 8,5 FF 4 HD
FF 2 F(1,2)
8 DR FF(L2)

SR 12 SI 6 RI 3
4C0 2 5C9 ZX
T TL1 900 TL 900 (WHITE) TRUNK LAMP
TL2
TO SECOND CORDLESS POSITION
SL2 S SL1 900 SL (RED) STATION LAMP
HM 3 ZW 900 ZX
L 900 L (WHITE) (6 BUTTON KEY TEL SET)
SI ZX LL FL2 FL1 5C9

FT FF 10 BT 167 PQ BY 10 ACA 14 BT
SEE NOTE C ZS R 10 ZR ZR ZS RI 1 ZC ZD BZ RINGER
CR ZW PQ BY 9 DR 12 FF 11 ZW ZX ZX SEE NOTE D TT 11 5D9 TT 9 CO
BZ (0-9) BZ

TR (0,1) SEE NOTE B HM 2 ACA 12 T H SP
U (0-9) HM 4 ACA 13 U H SP
ZX ZX MTR U 5B9

SHEET NOTES:

A. ALL MULTIPLE POINTS MARKED * INDICATE ALL EVEN TRUNKS MULTIPLED SEPARATELY FROM ALL ODD TRUNKS.

B. MULTIPLE TRUNKS 0-4 INCLUSIVE ON LEAD "TRO" AND TRUNKS 5-9 INCLUSIVE ON LEAD "TRI."

C. WHEN ZS OPTION IS REQUIRED THE INSTALLER SHALL ADD A STRAP ACROSS TERM. IC AND 10M OF (R) RELAY.

D. WHEN ZX OPTION IS REQUIRED THE INSTALLER SHALL REMOVE STRAPS BETWEEN 9 & 9M AND 11 & 11M OF (TT) RELAY, AND CONNECT GROUND TO 9B (TT) RELAY.

ENGINEER S. H. Adam DATE 9/13/68
WITNESSED AND UNDERSTOOD BY
J. J. Marek DATE 9/13/68.

DRAWING ISSUE

1	1	1	1	1	1	1	1	1	1
2B	2	2	2	2	2	2	2	2	2
4A	3	3	3	3	3	3	3	3	3
7B	4	4	4	4	4	4	4	4	4
8D	5	5	5	5	5	5	5	5	5
10D	6	6	6	6	6	6	6	6	6
11D	7	7	7	7	7	7	7	7	7
12B	8	8	8	8	8	8	8	8	8
13D	RT MR TEB								
16B	YC CPA PO								
17D	3PM DHC RPM								
18D	BPA BAK KFJ								
22B	OED BAK BPH								

WORN DRAWING REPRODUCED WITHOUT CHANGE 2-7-67 TEF

25AC	BMM PJS LDJ								
28B	BMM PJS LDJ								

W.S. R.A.C. N.T.E. T.E.B. P.D.A. E.A. P.D. T.E.B.

HO HW

SC-65752-01-B3

28

LDI 28A FOR ISSUE 31A
TWO WAY TRUNK CIRCUIT
TO CENTRAL OFFICE
SHEET 2 OF 2 (2)

SD-65752-01-B3

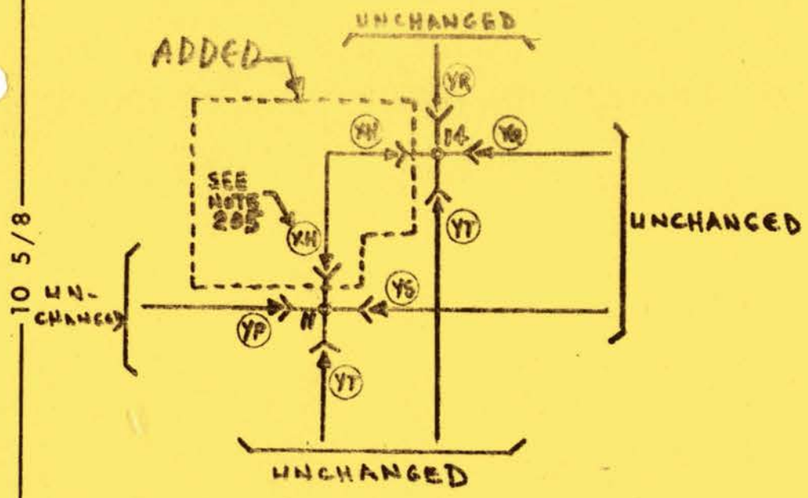
BELL TELEPHONE LABORATORIES INCORPORATED 6S

TCI Library www.telephonecollectors.info

DESCRIPTION

APPARATUS CHANGES

1. ON SHEET B2, LOCATION G2, OPTION XH IS ADDED AS SHOWN:



2. ON SHEET D1, EQUIPMENT NOTE 205 IS ADDED AS FOLLOWS:

205. WHEN PLUG-IN TRUNKS (3,4,8 & 9) ~~ARE~~ BUILT PER ISSUE 22D OR LATER ARE ADDED TO EXISTING PBX'S THAT ARE NOT ARRANGED FOR MAKE BUSY & BUSY DISPLAY FEATURE, THE INSTALLER SHALL ADD OPTION XH.

S. H. Adam 6/20/68
SIGNED DATE

J. J. Marsh 6/20/68
WITNESSED AND UNDERSTOOD BY DATE

PRODUCT AFFECTED TITLE
PBX SYSTEMS
NO. 756A
TWO-WAY TRUNK CIRCUIT
TO CENTRAL OFFICE

SHEET 1 OF

LDI ISSUE 27A

CODE OR DOCUMENT IDENTIFICATION
SD-65752-01

SYSTEM PBX

[ ] APPARATUS [ ] EQUIPMENT [X] CIRCUIT [ ] PROGRAM

[ ] NEW [X] CHANGE

WECO ENGR LOC CH

APPARATUS NEW CODE [ ] COMPLETE [ ] PARTIAL-BALANCE SCHEDULED FOR _____
PROBABLE DEMAND _____
[ ] DOES NOT REPLACE OR REDUCE THE DEMAND FOR ANY PRODUCT.
[ ] DOES NOT REPLACE BUT REDUCES THE DEMAND FOR THE _____ BY _____
[ ] RECOMMENDED IN PLACE OF THE _____ WHICH SHALL BE RATED [ ] A & M ONLY [ ] MFR DISC.
[ ] REPLACES THE _____ WHICH SHALL BE RATED MFR DISC.
CUSTOMER: [ ] ASSOCIATE [ ] NON-ASSOCIATE
RATING: [ ] PROPOSED AT&TCO STD [ ] DISTRIBUTOR STD [ ] COMPONENT PART
[ ] NOT YET STD BY AT&TCO [ ] OTHER _____
INITIAL USE:

APPARATUS CHANGE
NEW AND OLD INTERCHANGEABLE [ ] YES [ ] NO
CHANGE IN LIST OF COMPONENT ASSEMBLIES
USED ON CKT (CLASS A CHANGE ONLY)
REPAIRED PRODUCT AFFECTED [ ] YES [ ] NO

APPARATUS GENERAL
TOOL MADE SAMPLES: QUANTITY REQUIRED _____
[ ] WILL BE RETAINED BY BTL [ ] WILL BE RETURNED TO APPLY ON ORDERS
PRODUCT [ ] MAY BE [ ] SHALL NOT BE SHIPPED PRIOR TO SAMPLE APPROVAL
ASSOCIATED CKT DWG [ ] AFFECTED [ ] NOT AFFECTED
SD- _____ SCHED FOR ISS _____

PROGRAM CHANGE CLASS _____
GENERIC PROGRAM ISS _____
AT&TCO RATING _____
EQUIPMENT CODES:

EQUIPMENT CHANGE CLASS _____
AT&TCO RATING _____
ASSOCIATED CKT DWG _____ ISS _____
J-SPEC (BSP) AFFECTED? [ ] YES [ ] NO
REPAIRED PRODUCT AFFECTED? [ ] YES [ ] NO

CIRCUIT SCHEDULED FOR DWG ISS 30A DATE _____
ITEMS 1 CHARGE CASE _____
PROJECT _____ AT&TCO RATING _____
[ ] ANALYZATION [ ] ENGR COMPLAINT EQUIPMENT CODES:
[ ] BTL-NOT ON PROJECT [X] WECO REQUEST
SERVICE AFFECTED? [ ] YES [X] NO
CUSTOMER PREMISES EQUIPMENT AFFECTED?
[X] YES [ ] NO
COORD CIRCUITS:
SD-65746-01 LDI ISS 11/8

REASON FOR CHANGE
CURRENTLY MANUFACTURED PLUG-IN TRUNKS ARE ARRANGED FOR MAKE BUSY & BUSY DISPLAY FEATURE. WHEN THESE TRUNKS ARE ADDED TO PBX'S IN THE FIELD THAT ARE NOT ARRANGED FOR MAKE BUSY & BUSY DISPLAY, AN OPEN CIRCUIT CONDITION EXISTS ON LEAD IT9.. CAUSING THE TRUNK TO BE INOPERATIVE.
EQUIPMENT NOTE 205 PROVIDES AN ARRANGEMENT TO CORRECT THIS CONDITION FOR FIELD APPLICATIONS.

REFERENCES

ATTACHMENTS
NONE

ADDITIONAL DISTRIBUTION
NONE

REC | L

(TO BE COMPLETED BY WECO AND RETURNED TO BTL ENGR RECORDS
AT LOC. _____, DEPT. _____)
PRINCIPAL WECO DWG OR BSRS ISSUE
WECO ENGR LOC TEL DATE

APPROVALS CKT DEPT 5122 BTL CONTROL LOC
S. H. Adam 6/20/68
CKT ENGR DATE
R. W. Sinar 6/20/68
CKT SUPV DATE
C. B. Rose 6/20/68
APP. EQMT. OR PROG ENGR DATE
R. W. Lee 6/20/68
APP. EQMT. OR PROG SUPV DATE
APP. EQMT. OR PROG DEPT. DATE
[ ] BEFORE CKT ISS
[ ] DEFERRED
[ ] NON REQUIRED

BELL TELEPHONE LABORATORIES, INCORPORATED

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CONT ON SHEET A2

SUPPORTING INFORMATION

CATEGORY	NO.
756A PBX CABLING DIAGRAM	SD-65746-01
756A PBX FEATURE CABLE	SD-66920-01
EQUIPMENT INFORMATION	J58829M-( ) J58829AK-( )

SHEET INDEX NOTES

1. WHEN CHANGES ARE MADE IN THIS DRAWING, ONLY THOSE SHEETS AFFECTED WILL BE REISSUED.
2. 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.
3. THE ISSUE NUMBER ASSIGNED TO A CHANGED OR NEW SHEET WILL BE THE SAME ISSUE NUMBER AS THAT OF THE SHEET INDEX.
4. SHEETS THAT ARE NOT CHANGED WILL RETAIN THEIR EXISTING ISSUE NUMBER.
5. THE LAST ISSUE NUMBER OF THE SHEET INDEX IS RECOGNIZED AS THE LATEST ISSUE NUMBER OF THE DRAWING AS A WHOLE.

DWG ISSUE	CD ISSUE	DATE ISSUED	DRAWN	APPD.
1	1	5-9-56	S.L. M.R.	R.A.P. H.H.A.
2B	2B	8-23-56	E.S. C.R.D.	R.A.P. H.H.A.
3B	2B APP 1B	2-4-57	M.D. F.G.S.	S.A.P. H.H.A.
4A	2B APP 2A	9-25-57	W.G. C.P.T.	R.D.W. H.H.A.
5B	2B APP 3B	9-25-57	J.M. J.B.S.	R.D.W. H.H.A.
6B	2B APP 4B	2-24-58	F.F.T. M.S.	W.K.E. A.H.
7B	3B	10-16-58	B.A.T. J.B.S.	W.V.S. P.M.S.
8D	4D	12-2-59	R.G. L.T.F.	W.V.S. P.M.S.
9B	5B	2-5-60	S.H.Z. H.M.	W.V.S. P.M.S.
10D	6D	3-29-60	J.M.V. L.L.	W.V.S. P.M.S.
11D	7D	6-14-60	R.G. M.S.	W.V.S. R.W.S.
12B	7D APP 1B	8-5-60	V.S. M.R.	A.E.Q. P.M.S.
13B	7D APP 2D	3-21-61	R.T. M.R.	W.V.S. R.D.W. T.E.B.
14B	8B	6-6-61	V.S. H.M.	W.V.S. R.D.W. T.E.B.
15B	8B APP 1B	10-3-61	R.R.H. J.J.T.	R.A.P. R.D.W. T.E.B.
16B	9B	8-14-63	V.C. C.R.A.	L.T. H.F.D. P.D.
17D	10D	4-29-64	J.M.H. D.H.C.	W.L.H. R.W. R.R.M.
18D	11D	12-1-64	W.P.A. S.A.K. R.N.B.	A.E.K. R.A.V. K.F.J.
19D	11D APP 1D	9-30-65	W.G.N. S.A.K. R.C.L.	R.R.S. L.A.H. G.F.H.
20AC	11D APP 2AC	7-14-66	C.E.D. S.A.K.	H.E.D. L.A.H. G.F.H.
21B	11D APP 3B	7-14-66	C.E.D. S.A.K. —	H.E.D. L.A.H. G.F.H.
22D	11D APP 4D	4-10-67	R.D.Z. P.J.S. U.T.	J.J.M. L.A.H. R.H.P.
23D	11D APP 5D	4-10-67	B.C.M. S.A.K. R.C.L.	H.E.D. L.A.H. R.H.P.
2	11D APP 6AC	6-12-67	T.E.F. P.J.S. R.C.L.	J.J.M. L.A.H. R.H.P.
25D	11D APP 7D	4-3-68	B.M.M. P.J.S. R.C.L.	S.H.A. L.A.H. L.D.J.
26AC	11D APP 8AC	4-3-68	B.M.M. P.J.S. R.C.L.	S.H.A. L.A.H. L.D.J.
27AC	11D APP 9AC	4-3-68	B.M.M. P.J.S. R.C.L.	S.H.A. L.A.H. L.D.J.
28B	12B	4-3-68	K.A.R. P.J.S. R.C.L.	S.H.A. L.A.H. L.D.J.

NY NO NO NO HW

SD-65752-01 IJ07

PBX SYSTEMS
NO.756A
TWO-WAY TRUNK CIRCUIT
TO CENTRAL OFFICE

(2) (2 WY TRK)

BELL TELEPHONE LABORATORIES INCORPORATED — DWG SIZE 6S

AT&T CO STANDARD 28

SD-65752-01-A1

20 SHEETS

PRINTED IN U.S.A.

SD-65752-01-A1

E-7896 (12-54)

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SC 26 RECALL FROM DIAL REPEATING OR DIAL TRANSMITTING TIE TRUNK SC 27 ATTENDANT DISCONNECTS NO TEST CALL SC 28 TOLL OPERATOR RERINGS ON TOLL ALLOWED STATION CALL THAT HAS DISCONNECTED SC 29 TOLL OPERATOR RERINGS ON ATTENDANT ORIGINATED CALL SC 30 INCOMING CENTRAL OFFICE TRUNK REQUESTS RING DOWN TIE TRUNK CONNECTION SC 31 DIAL REPEATING, DIAL TRANSMITTING OR RING DOWN TIE TRUNK ORIGINATES CENTRAL OFFICE CALL SC 32 STATION DISCONNECTS AFTER DIALING CENTRAL OFFICE SC 33 FLEXIBLE NIGHT CONNECTION	E5	1	1	1	1	1	1	7	8	8	8	8	8	8	8	8	16	17	17	19	19	21	22	22	22	22	22	22	28																						E5
SC 34 FLEXIBLE NIGHT CONNECTION IDLE TRUNK TO IDLE STATION ATTENDANT DIALS STATION SC 35 FLEXIBLE NIGHT CONNECTION INCOMING CALL TO NIGHT CONNECTED TRUNK SC 36 FLEXIBLE NIGHT CONNECTION IDLE TRUNK TO BUSY STATION ATTENDANT DIALS STATION SC 37 FLEXIBLE NIGHT CONNECTION OUTGOING CALL FROM A STATION ON NIGHT CONNECTION	E6							7	7	7	7	7	7	7	7	7	16	16	16	16	16	21	22	22	22	22	22	22	28																						E6
SC 38 TOLL OPERATOR RERINGS ON TOLL DENIED OR RESTRICTED STATION CONNECTED BY THE ATTENDANT SC 39 STATION DIAL TRANSFER SC 40 INDICATION OF CAMPED-ON CALL TO BUSY LINE SC 41 INDICATION OF CAMPED-ON CALL TO BUSY LINE USING DSS SC 42 MESSAGE REGISTER SURCHARGING	E7								8	8	8	8	8	8	8	8	16	17	18	19	20	20	22	22	22	22	22	22	28																						E7
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DRAWING ISSUE

1	S.L. M.R.	W.S.
2B	E.S. CHD	R.A.
3B	W.S. R.A.	W.S.
4A	T.B. C&T	T&S
5B	LINE LIES	T.E.B.
6B	PAT	W.F.A.
7B	BAT LIES	T.E.B.
8D	R.A. MLC	R.A.
9B	SPT L.M.	T.E.B.
10D	MKG L.C.	E.A. P.D.
11D	R.G. DMS	P.D.
12B	V.S. MLC	T.E.B.
13D	A.T. M.R. TEB V.S.	
14B	W.M. T&A	
15B	RRM W.S. TEB	
16B	VC KRA P.D.	H.O.
17D	DMC AOM	H.O.
18D	WPG SAK KFJ	H.O. H.W.
19D	NBL SAK CFH CEH	
20 AC	SAK GFJ	
21 B	CEH SAK GFJ	
22D	PDZ PJS RHP	
23D	BCN SAK RHP TEF PJS RHP	
25D	BMM PJS LDJ	
26AC	BMM PJS LDJ	
27AC	BMM PJS LDJ	
28B	KAF PJS LDJ	

TWO WAY TRUNK CIRCUIT TO CENTRAL OFFICE (2)

BELL TELEPHONE LABORATORIES INCORPORATED — DWG SIZE 6S

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SD-65752-01-A2

APPARATUS INDEX

DESIG	LOCATION FS	APP FIG.	EQPT
RELAYS			
AC	1B6	1	
ACA	1A7	1	
BY	3A2	1	
CT	1G9	1	
DR	1F4	1	
FF	1A2	1	
H	1D8	1	
HD	2G4	1	
HM	2E3	1	
IC(0-9)	4B6	6	SLIDE 5
MC	2G3	1	
N	2C3		
NI	1B8		
P	1E3	1	
R	1D8	1	
RI	2C4	1	
RS	3C2	1	
RT	1G2	1	
S	1D6	1	
SI	1C2	1	
SE0-9	4B1	2	
SL	2A3	1	SLIDE 5
SR	1C7	1	
TLA	3E2	1	SLIDE 5
TT	3D2	1	

DESIG	LOCATION FS	APP FIG	EQPT
INDUCTORS			
H	1D5	1	
HI	1E5, 1F5	1	
JACKS			
T	4A4	3	
LAMPS			
L	4B4	2	
LAMPS, RESISTANCE			
SLO-9	4B1	2	
RESISTORS			
B	1D3	1	SLIDE 5
BF	1F7	1	
CS	2B2	1	
H	1E7	1	
HS	1E6	1	
L	3D8	1	
LS	1E6	1	
PD	2A4	1	
R	4F2	5	
S	3C8	1	
SH	2B4	1	
SLO-9	4C1	2	
T	3B8	1	SLIDE 5
THERMISTORS			
R	1E8	1	SLIDE 5
TI	4F1	5	
TRANSISTORS			
QI	4F1	5	SLIDE 5

DESIG	LOCATION FS	APP FIG.	EQPT
CAPACITORS			
A	1E4	1	SLIDE 5
FB	1E2	1	
R	1E9	1	
RV	1E3	1	
S	1D6	1	
TN	1G7	1	
DIODES			
A	1E2	1	SLIDE 5
B	1D3	1	
C	1D5	1	
D	1E9	1	
DR	1F3	1	
F	2A2	1	
FF	4E1	5	
G	2A3	1	
H	1B7	1	
J	1B7	1	
K	1A7	1	
KO-9	1A7	2	
L	3F2	1	
M	1G4	1	
N	1G2	1	
R	4G2	5	
RS	3C2	1	
SA,SB	2C5	1	
VARISTORS			
E	1E9	1	SLIDE 5

LEAD INDEX

DESIG	FS LOC
CORDLESS POS CKT	
ACA	5E2
BAT	4B7
BT	3E8
BZ	3E8
BZ(0-9)	3F8
CO	4C7
COA	4C7
CS	4C7
FB	2G7
H	2E7
HD	2G7
HG	2F7
HM	2E7
ICI	4B7
IC2	4C7
L	3D8
LR	1B4
LT	1B4
NT	3G2
RC	4F7
SLI	3C8
SL2	3C8
SP	2G7
SR	2F7
SS	4E7
T	3G8
TC	4F7
TLI	3B8
TL2	3B8
TR	1B4
TT	1B4
U	3G8
W	3F2

DESIG	FS LOC
MKR CLASS OF SERVICE CKT	
BY(E,O)	3BI
FF(E,O)	1AI
NT	3GI
RLS(E,O)	2GI
RS(E,O)	3CI
RT(E,O)	1H2
TLA(E,O)	3EI
TT(E,O)	3DI

DESIG	FS LOC
ALM TRFR AND TST CKT	
NC(0-9)	5G2
NCA(0-9)	5GI
ON(0-9)	5G2
NS(E,O)	2C2
IT(9-)	2G2
ITC(9-)	2G2
R	1F9
T	1D9

DESIG	FS LOC
MKR LINK TEST CKT	
CW	2AI

DESIG	FS LOC
POWER SUPPLY CKT	
BT	1G6
CR	3F4
F(1,2)	3D4
FC(1,2)	3D3,3E3
FF(1,2)	3E4
FT	3E4
RI	1H2
RG GRD	1HI
SF(1,2)	3C4

DESIG	FS LOC
MKR TRK HOLD MAG CKT	
IT(90-99)	2FI
M(E,O)	2EI
ST(90-99)	2FI

DESIG	FS LOC
MKR LINK CKT	
R	1FI
S	2BI
T	1DI

DESIG	FS LOC
MKR UNITS SEL CKT	
U(0-9)	3G4

DESIG	FS LOC
MKR TENS SEL CKT	
TR(0,1)	3G4

DESIG	FS LOC
CORD SWITCHBOARD	
L	4B3,4C3
R	4B3,4C3
S	4B3,4C3
SL	4B3,4C3
T	4B3,4C3

DESIG	FS LOC
608A CORD SWBD AUX SIG,FA,BCO & MISC CKT	
NA	2B5

DESIG	FS LOC
608D CORD SWBD AUX SIG FA,BCO & MISC CIRCUIT	
NA	2B5

DESIG	FS LOC
DIAL PULSE REG.	
LD	2H3

DESIG	FS LOC
AUX POSITION CKT	
ACA	5FI
HD	5F5
HDI	5F5
LO	5E5
RTK	5F8

DESIG	FS LOC
STA DIA TRFR CONTROLLER CKT	
AAA	5D5
AAB	5C5
CG	5C5
ER	5B2
FLI	5C9
FL2	5C9
FR	5A2
GR	5B2
LL	5C9
MC	5A5
MTR	5B9
PA	5B5
PB	5B5
RBA	5B2
RBS	5B2
RCA	5C2
RLR	5A9
RS	5D2
SG	5C5
SR	5A2
TBA	5C2
TBS	5C2
TCA	5D2
TL	5C9
TP-	5D9
TT	5D2
U	5B9

DESIG	FS LOC
STATION MESSAGE REG PULSE AND SURCHARGE CKT	
H	6CO
RI	6EO
R2	6EO
SI	6CO
SR	6BO
SSI	6DO
SS2	6DO

DESIG	FS LOC
AUX LONG LINES CKT FOR TOUCH-TONE CONVERSION	
R	1F9
T	1D9

DESIG	FS LOC
MB & BY DISPL CKT	
IT	2H2
ITB	1H2
ITT	2H2

OPTION INDEX

APP OR WIRING	LOCATION
2	APP FIG. 2, 1A7, 1A9, 1C5, 3B7, 4AI, 4BI, 4DI
3	APP FIG. 3, 4A4, 4B4
4	APP FIG. 4, 4C4
5	APP FIG. 5, 1B2, 4EI
6	APP FIG. 6, 1DI, 1EI, 2H6, 4B6, 4C6
Z	1B8
Y	1A8
X	1A7
W	2F7
V	2F2
T	2F2
S	1E7
R	1E7
Q	1BI, 1DI, 1FI, 1F3, 2B3, 2C2, 3A2-3E6
P	1BI, 1DI, 1FI, 1F3, 2B3, 2C2, 3A2-3E6
N	1E3, 2A3, 2E4, 3B2, 3D2, 3E2
M	1E3, 2A3, 2E4, 3B2, 3D2, 3E2
K	2F2
J	2F2
H	2G7
G	2G7
F	1D9, 1F9, 2F6, 1G2,
E	1F2-1F9, 2B2, 2C3, 2F6, 3C3, 5F2, 5G4 APP FIG.1
B	3E2
A	APP FIG.1
ZA	2F7
ZB	2F7
ZC	3F7
ZD	3F7
ZE	4BI, APP FIG. 2
ZF	4CI, APP FIG.2
ZG	1BI-1F6
ZH	APP FIG. 1, 3C2 1BI-1H6 APP FIG. 1, 3C2
ZJ	1F2-1F9, 2A2, 2B2 2C3, 2F6, 3C2, 3C3, APP FIG. 1, 4B5, 5F2, 5G4
ZL	1F6
ZM	1A7
ZN	2G3
ZO	1E3
ZP	2G3
ZQ	2F2
ZR	3F5
ZS	3F5
ZT	1B2
ZU	1F3
ZV	1F3, APP FIG. 1
ZW	1A2-1G5, 2C6, 2G6, 3C8, 3F4, 3F6
ZX	1A2-1G6, 2C6, 2E6, 2G6, 2H4, 3CI-B8
ZY	5F2, 5F5, 5G5
ZZ	5FI, 5F8, 5HI, 5G5
YA	4B5, 4C5, 4C6
YB	1H7, 2B4, 2C5
YC	1C7, 1H7, 2B4, 2C4, 2F3, 2C7

APP OR WIRING	LOCATION
YD	2C5
YE	2C5
YF	4CI
YG	4CI
YH	APP FIG.1
YI	4B5, 4C5
YJ	APP FIG.1
YK	4B7
YL	2F3, 3C2,
YM	1F2-1F9, 2A2, 2B2, 2F3, 3C2, APP FIG. 1, 4B5 5F2, 5G4
YN	APP FIG.2
YO	APP FIG.1
YP	2F2, 2G2
YQ	2G3
YR	2F2, 2F3
YS	2G2
YT	1HI, 2G2
YU	2E5
YV	2E5
YW	APP FIG. 1
YX	APP FIG. 1,
YY	1G1, 1G2, APP FIG. 1
YZ	1G1, 3C2, APP FIG. 1
XA	1A8, 1B8, 2G4, 2G5, APP FIG. 1
XB	1A8, 1B2, 1B8, 1C1, 1E2, 1E4, 1E5, 1F4, 1F6, 2G4, 2G5, 3A3, 3C1

DRAWING ISSUE		
1	SL	RH
2B	ES	RH
3B	MD	FGS
4A	TB	BAT
5B	JWS	BAT
7B	LBS	TEB
8D	RSC	JTH
11D	DG	PS
13D	MS	RT
	MR	TEB
14B	VS	
	HM	TEB
15B	FRH	WJS
	TEB	
16B	VC	
	CRA	MO
	PD	
17D	MAE	
	DHC	
	ARM	
18D	WPA	HW
	SAK	KFJ
19D	MKN	
	SAK	
	GFH	
20AC	CED	
	SAK	
	GFH	
21B	CED	
	SAK	
	GFH	
WORN TRACING REDRAWN WITHOUT CHANGE		
	ROZ/ 8-24-66	
22D	ROZ	
	PJS	
	RHP	
24BC	TEF	
	PJS	
	RHP	
25D	BMW	
	PJS	
	LDJ	
26AC	BMW	
	PJS	
	LDJ	
28B	BMW	
	PJS	
	LDJ	

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TWO WAY TRUNK CIRCUIT TO CENTRAL OFFICE (2)

SD-65752-01-A3

BELL TELEPHONE LABORATORIES INCORPORATED

SYSTEM CODE 6S

D-65752-01-A3

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PART OF FS I

TIP AND RING CONTROL
(SEE NOTE "A" FOR MULTIPLE DESIGNATIONS)

MARKER

CORDLESS POSITION CIRCUIT

LEV 2 / LEV 1 / LEV 0

RINGING CKT (INTERRUPTER)

MARKER

MB & BY DISPL CKT TRK BY INC

TO PWR SUPPLY CIRCUIT

TO CENT OFF OR ALM TRANSFER & TEST CKT OR TO LINE OR TRUNK ACCESS CIRCUIT TO TOUCH-TONE TO DIAL PULSE CONVERSION EQUIPMENT.

SEE NOTE 116

SEE NOTE 112

SHEET NOTES:

* A. ALL MULTIPLE POINTS MARKED * INDICATE ALL EVEN TRUNKS. MULTIPLED SEPARATELY FROM ALL ODD TRUNKS.

B. F OPTION – CO TRUNK CIRCUITS 0,1,2 & 5 CONNECT TO ALARM TRANSFER & TEST CIRCUIT. E,ZJ,YM OPTION-CO TRUNK CKTS. 0,1&2 CONNECT TO ALARM TRANSFER & TEST CIRCUIT. F OPTION – CO TRUNK CIRCUITS 3,4,&6-9 CONNECT TO LINE OR TRUNK ACCESS CIRCUIT, TO "TOUCH-TONE" TO DIAL PULSE CONVERSION EQUIPMENT, OR DIRECTLY TO CENTRAL OFFICE. E,ZJ,YM OPTION-CO TRUNK CKTS. 3-9 CONNECT TO LINE OR TRUNK ACCESS CIRCUIT, TO "TOUCH-TONE" TO DIAL PULSE CONVERSION EQUIPMENT, OR DIRECTLY TO CENTRAL OFFICE.

DRAWING ISSUE

1	S.L.	W.S
2B	E.B. CND	RAC.
3B	M.D. F.S.	W.S
4A	F.B. BAT	TES
7B	BAT BAS	TES
8D	K.B. SAS	PD.
11D	K.S. MS	PO
13D	RT MR. KEB	
15B	RRH JJG KEB	NY
16B	V.C. CRA PD	HO
17D	YDM AWG DHC	HO
18D	WPH SAK KFS	HW
19D	EWE AKV GFH	
21B	CKD SAK GFH	

WORN DRAWING REPRODUCED WITHOUT CHANGE 8-22-66 P.M.C

22D	ROC RJS	RHF
23D PM	BCM SAK	RHF
26AC	BMM PJS	LDJ
28B	BMM PJS	LDJ

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TWO WAY TRUNK CIRCUIT TO CENTRAL OFFICE

(2) SD-65752-01-B1

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PART OF FS 2

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

NOTES:
A. ALL MULTIPLE POINTS MARKED * INDICATE ALL EVEN TRUNKS MULTIPLED SEPARATELY FROM ALL ODD TRUNKS.
B. MULTIPLE TO ALL CIRCUITS ONLY WHEN OPTION ZY IS PROVIDED

MARKER
VOLTAGE REDUCTION DETECTOR
COS-
CO-A
COS
CT
HM
N
DR
F
SL
G
PD
FF
RS
CS
BY
HD
SH
RI
SA
SB
LEV 0
LEV 1
LEV 9
NS
ALM, TRFR & TEST CKT
ACA
6O8A CORD SWBD AUX SIG, FA, BCO, & MISC CKT OR 6O8D CORD SWBD AUX SIG, FA, BCO & MISC CKT
HMK-
CON-
SO-
ALB-
CO-
HMTA
TRK-
HMTB
JT-
GO-
COT
SMT-
THM
TRM-
TK-
S-
U-
RL-B
ATA
ALM, TRFR & TEST CIRCUIT
TRK BY
CO TRK
MB & BY DISPLY CKT
TO DIAL PULSE REG CKT
TT
TLA
AC
SI
SR
FF
MC
CORDLESS POSITION CIRCUIT
SEE NOTE B

DRAWING ISSUE		
1	G.L. M.D.	W.S.
2B	M.D. C.M.G.	R.A.C.
3B	M.D. F.&G.	W.S.
4A	J.B. J.&S.	T.E.B.
5B	J.M. J.&S.	A
7B	B.A.K. J.B.S.	T.B.B.
8D	R.S. J.T.F.	P.D.
11D	A.C. M.S.	P.D.
14B	V.S. H.M. TEB	
16B	V.C. CRA P.D.	B
17D	MWB DHC RPM	
18D	WPA SAK KFJ	HW
19D	WPA SAK	
21B	CED SAK BFH	C
WORN DWG REPRODUCED WITHOUT CHANGE	8-24-66 FED	
22D	ROZ PJS RHP	
23D	BCN SAK RHP	D
28A	BMW PJS RHP	
28	TEF PJS RHP	

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TWO WAY TRUNK CIRCUIT TO CENTRAL OFFICE
(2)
SD-65752-01-B2
BELL TELEPHONE LABORATORIES INCORPORATED
6S

SD-65752-01-B2

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PART OF FS 3

CLASS OF SERVICE
(SEE NOTE "A" FOR MULTIPLE DESIGNATIONS)

FS 4

LAMP, BUZZER AND TONE CONTROL & MARKER START

MARKER

COA NT
COB

BY(E,0) MC 6 * BY (PQ) SR U L CO -48 875

BY (PQ) SL (N,M) HM CO
2 11,4 9
RTK 5F9

JC 4C5 (6)

RPAI HMTBA
RPAO HMTAA TK8 TK9 TKO RSO
RPAO HMTAA TKA8 TKA9 TKAO RSF
RPAI HMTBA

RS(E,0) MC (XB) 12 * RS (ZG,ZH) U L CO -48 950 700
RS (YJ,YZ)
RT 5
5A9 RLB (ZX) 5 RS

RS (YL) DR ZB 1F6
(YM) DR 2E6
D2 X (ZJ,YL) N (ZJ)
(ZJ,YL) DR (E) N CO
(E) 9 4

TT RCBO
REGISTER 0
TT RCBI
REGISTER 1
TKAO

TT(E,0) MC HD 3 11 * TT U L CO -48 700
TT CL 2F5

(M,N) TLA X B2 ON 2C6
12,1
(M,N) TLA 2U,1L 1U,2L CO 48 2450
(B)

COT TLA RCBO
REGISTER 0
TLA(E,0) MC 1 * 19 ACA (A) (B)
COT TLA RCBI
REGISTER 1

2 (A) SEE NOTE 107
1 L

CORDLESS POSITION CIRCUIT
H U L 48 2500
W H
(XNR) HOLD KEY

AUXILIARY POSITION CIRCUIT
H RAC H

NT U L 700
NT MC 2 ACA 11 NT
NT 400 48
210
DIAL BACK NL KEY
7 RT
CO

RINGING CIRCUIT (INTERRUPTER)

-48 FC(1,2) INT 30 IPM
-48 FC(1,2) INT 60 IPM
INT 120 IPM
-48 FC(1,2)

MARKER
TR- 48 TEA
U- 48 LUC- TRU-

-48 CO HD 2 TT 8
SR 12 SI 6
RI 3
4C0 (2) L 5C9 TL (ZX)
T TL1 900 900
TL (WHITE) TRUNK LAMP

SI 11 RS 4
P 10
SF(1,2) * TT 3 RT 3 HD 3
(P,Q) BY 8,5 FF 4
HM 3 (ZW) 900 S SL1 900
SL (RED) STATION LAMP
(ZX)

FF 2
F(1,2) * 8 DR
4 HD 8 SI (ZX) LL FL2 FL1 5C9
L 900 L
L (WHITE) (6 BUTTON KEY TEL SET)

CORDLESS POSITION CIRCUIT
TO SECOND CORDLESS POSITION
SL2

FF(1,2) * INT 120 IPM -48 FC(1,2)

120 IPM TONE FT FF 10 (P,Q) BY 10 ACA 14 BT
BT 1G7

SEE NOTE C (ZS) R (ZS) RI 1
(ZR) 10 (ZR)
CR (ZW) (PQ) BY 9 DR 12 FF 11 (ZW)
(ZX) 11 TT TP 5D9
SEE NOTE D (ZX) (ZX) 9 TT CO

TR(0,1) SEE NOTE B HM 2 ACA 12 T H SP
U(0-9) HM 4 ACA 13 U H SP

(ZC) BZ RINGER
(ZD) BZ(0-9) BZ

(ZX) (ZX) MTR U 5B9

SHEET NOTES:

A. ALL MULTIPLE POINTS MARKED * INDICATE ALL EVEN TRUNKS MULTIPLED SEPARATELY FROM ALL ODD TRUNKS.

B. MULTIPLE TRUNKS 0-4 INCLUSIVE ON LEAD "TRO" AND TRUNKS 5-9 INCLUSIVE ON LEAD "TRI."

C WHEN ZS OPTION IS REQUIRED THE INSTALLER SHALL ADD A STRAP ACROSS TERM. 10 AND 10M OF (R) RELAY.

D. WHEN ZX OPTION IS REQUIRED THE INSTALLER SHALL REMOVE STRAPS BETWEEN 9 & 9M AND 11 & 11M OF (TT) RELAY, AND CONNECT GROUND TO 9B (TT) RELAY.

DRAWING ISSUE

1		W.S.
2B		R.A.C
4A		NY T.E.B.
7B		T.E.B
9D		P.D.A
10D		E.A.
11D		P.D.
12B		T.E.B.
13D	R.T. MR. TEB	HO
16B	VC CRA PD.	
17D	DHC	B
18D	BAK	HW
21B	CED BAK BRH	
WORN DRAWING REPRODUCED WITHOUT CHANGE 2-7-67 TEF		C
26A	BMM PJS LDJ	
28B	BMM PJS LDJ	D

28

TWO WAY TRUNK CIRCUIT TO CENTRAL OFFICE (2)

SD-65752-01-B3

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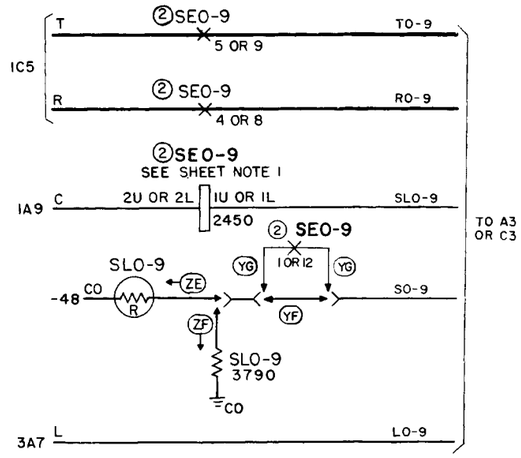
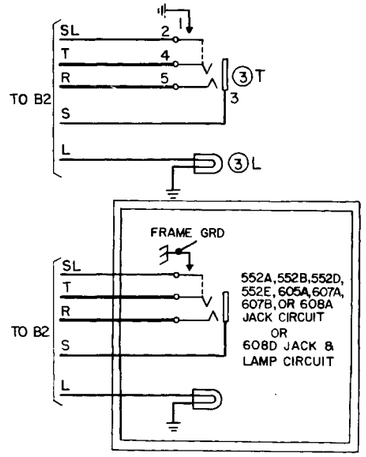
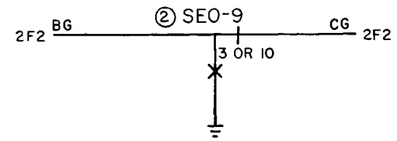
FS 5

RELAY AND JACK CKT FOR TRUNK APPEARANCE AT CORD SWITCHBOARD

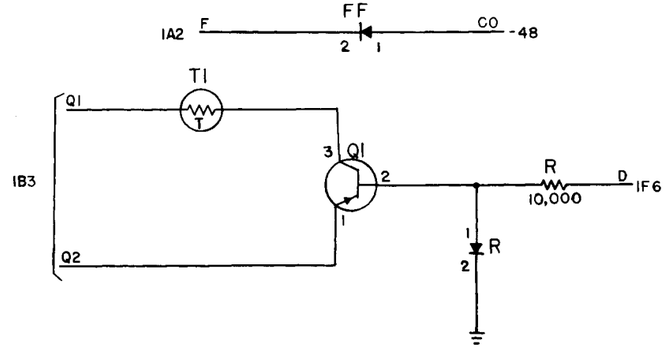






⑤ FS 6

FALSE RECALL DETECTOR CIRCUIT (REQUIRED WHEN TRUNK IS CONNECTED TO A PANEL CENTRAL OFFICE - SEE SHEET NOTE 2)

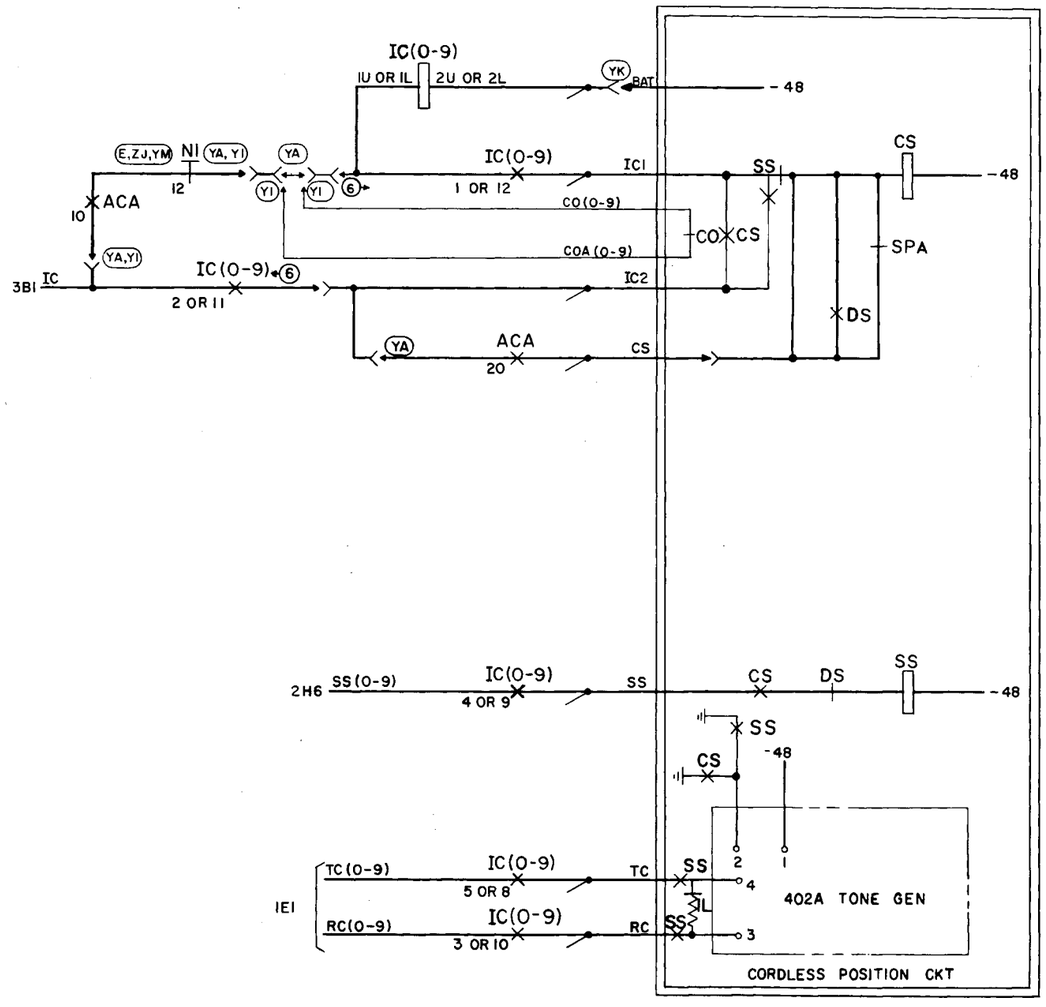


SHEET NOTES:

1. RELAYS SE0,2,4,6,8 ARE ASSOCIATED WITH EVEN NUMBERED CIRCUITS, RELAYS SE1,3,5,7,9 ARE ASSOCIATED WITH ODD NUMBERED CIRCUITS.
2. EQUIPMENT TO BE MOUNTED LOCALLY.
3. SPRINGS 1 TO 5 WITH COIL TERMINALS IL AND 2L APPLY TO LOWER RELAYS (ICO,2,4,6 AND 8). SPRINGS 8 TO 12 WITH COIL TERMINALS IU AND 2U APPLY TO UPPER RELAYS (ICI,3,5,7, AND 9).

FS 7

INDICATION OF CAMPED-ON CALL TO BUSY LINE SEE NOTE 3



DRAWING ISSUE		
11D	R.G.	
16B	W.C.	
17D	T.D.M.	
19D	W.C.N.	
20AC	C.E.D.	
21B	C.E.D.	

21

PBX SYSTEMS
TWO WAY TRUNK CIRCUIT TO CENTRAL OFFICE (2)

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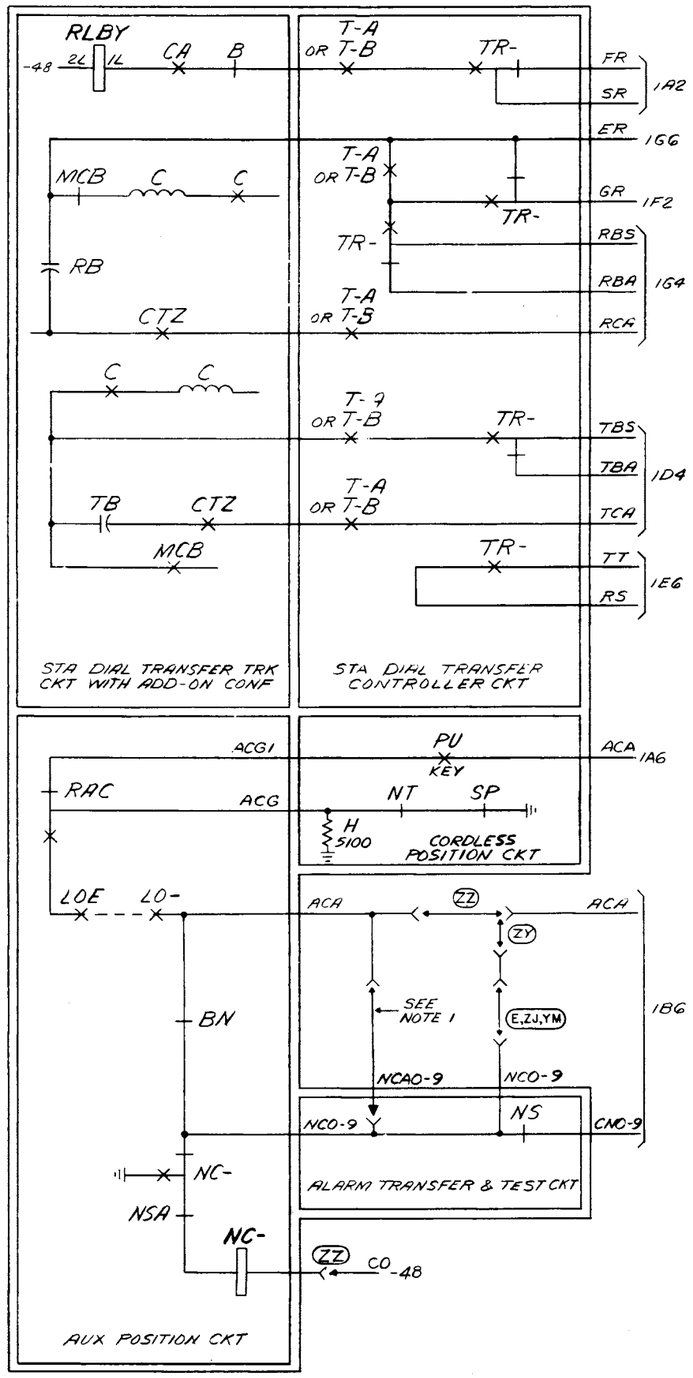
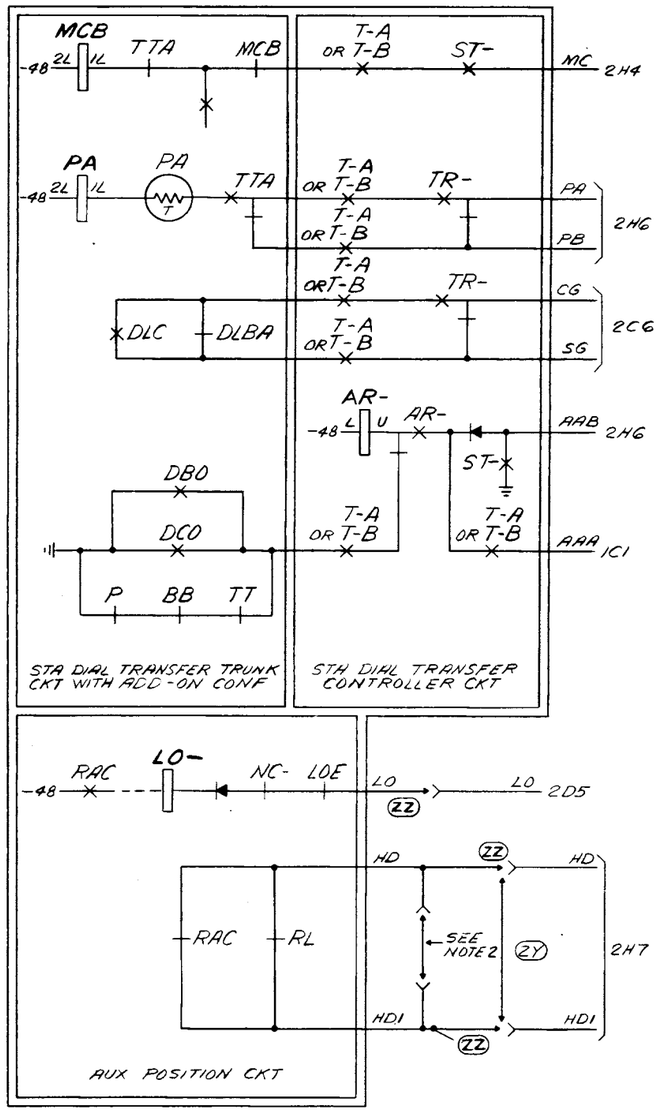
PART OF FS 1

TIP AND RING CONTROL
(SEE NOTE "A" FOR MULTIPLE DESIGNATIONS)



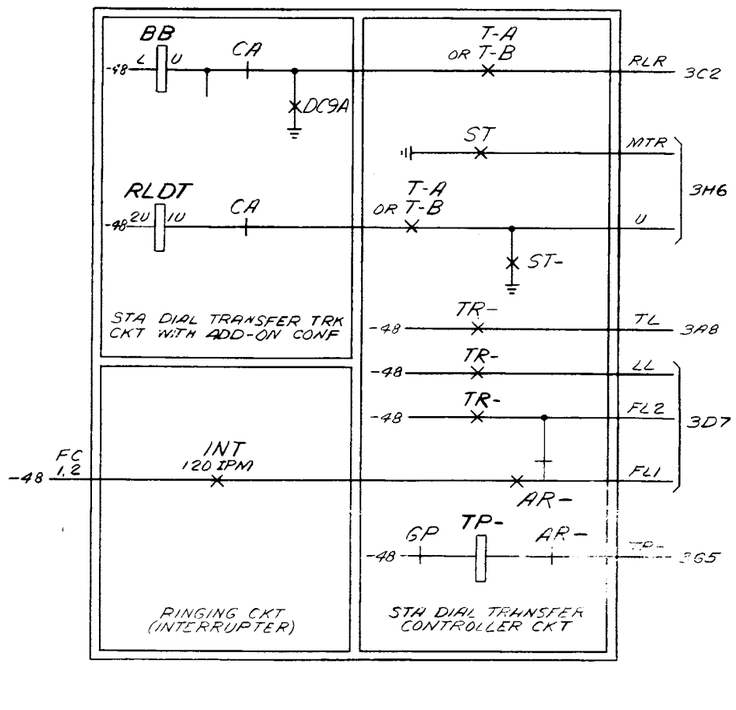
PART OF FS 2

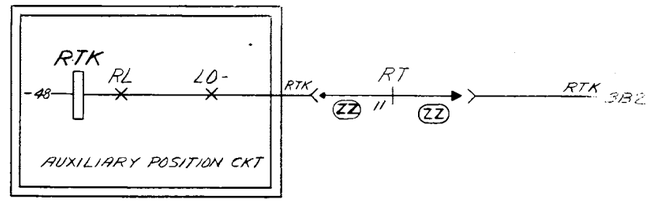
SLEEVE AND HOLD MAGNET CONTROL
(SEE NOTE "A" FOR MULTIPLE DESIGNATIONS)



PART OF FS 3

CLASS OF SERVICE
(SEE NOTE "A" FOR MULTIPLE DESIGNATIONS)





SHEET NOTES:
1. LEADS NCAO-9 ARE REQUIRED WHEN AUXILIARY POSITION CIRCUIT IS NOT PROVIDED AND THESE LEADS ARE PROVIDED BY STRAPPED PLUG IN CROWN.
2. STRAP BETWEEN LEAD HD AND LEAD HDI IS REQUIRED WHEN AUXILIARY POSITION CIRCUIT IS NOT PROVIDED AND STRAP IS PROVIDED BY STRAPPED PLUG IN CROWN.

DRAWING ISSUE
17D DHK AGM WPA
18D SAK KFJ CED
21 B SAK GFH

21

PBX SYSTEMS
TWO WAY TRUNK CIRCUIT TO CENTRAL OFFICE (2)
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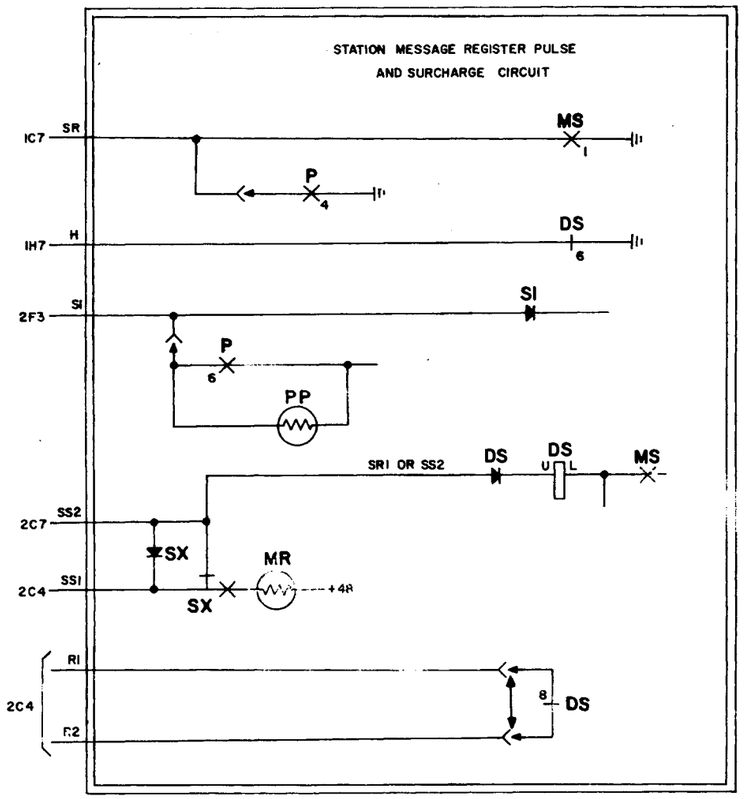
PART OF FS2

SLEEVE AND HOLD MAGNET CONTROL



DRAWING ISSUE

18D	GAP SAK KTJ	HV
21B	CED SAK GEH	

SD-65752-01-B6

21

PBX SYSTEMS

TWO WAY TRUNK CIRCUIT TO CENTRAL OFFICE (2)

SD-65752-01-B6

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6S

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APP FIG. I

RELAY

DESIG	AC			BY		BY		CT		DR		R1		FF						HD		HM		DESIG
CODE	AF139			F51895		AG33		AG16		AK8				AJ15						AJ15		AF100		CODE
OPTION				Q		P																		OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12				EM	1F3	EM	1F3			M	3F5			EBM	1A8					EBM	2B3	EMB	2G6	12
11										M	2A2			EBM	3F5					EBM	3D2	M	α	11
10	M	2G7		M	3E6	M	3E6	M	1C7	EBM	1F2			EBM	3E5					EBM	1H9	EBM	1A8	10
9	B	a		B	3F5	B	3F5			EMB	a			EBM	1E6					EBM	2G6	M	3B2	9
8	EBM	b		EBM	2B2	EBM	3C6	EBM	1F7	EM	3E5			EMB	1F7					EMB	2G6	EBM	2G4	8
7	B	2G6		B	1D1	B	1D1	B	2F3					EBM	2B2					EBM	1F5			7
6	EMB	1A6		B	1F1	EMB	2B2	EBM	1D7					EMB	1D7					EMB	2E6	EMB	2E2	6
5	B	2F6		BM	3C6	B	1F1	B	α			EM	2D5	EMB	1F4					EMB	1D5			5
4	EBM	2E6		EBM	2B3	EBM	2B3	M	1G8			B	2F4	EBM	3C6					EBM	3D7	EBM	3G5	4
3	B	1D4										EBM	3B7	EBM	1H8					EBM	3C6	M	3C7	3
2				M	3B2	M	3B2					EBM	1A9	EBM	3D4					EBM	3B5	EBM	3G5	2
1				M	1B1	M	1B1					M	3E5	EBM	1B2					EBM	1F3	M	2F4	1
COIL		1B6			3B2		3B2		1G9		1F4		2C4		1A2						2G5		2E3	COIL

a (ZG) MF6 (ZH) 1B2
b (ZG) 1B1 (ZH) 1F6

a (ZL) 1F6
(E) 3C3
(ZJ,YM) 3C2

a (E,ZJ) 2B1
(YM) 2B2

RELAY

DESIG	S1		SL		SL			SR		TLA		TLA		TT										DESIG
CODE	AG34		AK9		F51877			AG34		AK9		F51877		AJ12										CODE
OPTION			M		N					M		N												OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	M	1A7			M	2E4		M	3B6	M	3E2			EBM	2E3									12
11	M	3C6			B	3B2		M	1G1					EBM	3F5									11
10	EBM	2F3						EBM	2F3	B	2E4			EBM	1D5									10
9														EBM	3F6									9
8	EBM	3D7						EBM	1F2	BM	1E2			EBM	3B5									8
7														EBM	2G5									7
6	EBM	3B6						EBM	a					EBM	1E5									6
5														EBM	1E7									5
4	EBM	2D6	B	3B2				EBM	1G8					EBM	1A9									4
3												B	2E4	EBM	3C5									3
2	EBM	1E7	M	2E4				EBM	1E7			BM	1E2	EBM	1H2									2
1	M	1G8						M	1B2			M	3E2	EBM	3D2									1
COIL		1C2		2B3		2B3			1C7		3E2		3E2		3D2									COIL

a 1D7 2D6

RELAY

DESIG	MC		N		N1		P				R		RS		RS		RS		RT		DESIG
CODE	AJ56		AK7				AJ28				AJ48		AJ15		AJ3		AG53		AJ58		CODE
OPTION			E,ZJ,YM		E,ZJ,YM								ZH		ZG		XB				OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	EM	3C1			EBM	4B5	EM	1D5					EBM	1D6	EMB	1D6	EBM	1D6	EM	1H2	12
11	BM	1H1			EBM	1D9	M	1D7					EBM	2F7	BM	2F7	EBM	2F7	B	5F8	11
10	M	1A2			EBM	1F9	EBM	3C4			M	3E5	EBM	1D1	EBM	1D1	EBM	1D1	M	1A8	10
9	PMEB	2E3			EM	5G4	M	1H1					EBM	1A8	M	1A8	EBM	3A3	BM	1E6	9
8	EMB	2F3			EM	1B8	EBM	2E4			M	2E5	EMB	2F6	EBM	2F6	EMB	2F6			8
7	B	1G1											EBM	1F5			EBM	1G5	B	3G2	7
6	M	3B1					EMB	1A9			M	2D5	EMB	2B2	EMB	2B2	EMB	2B2			6
5	B	1E3	EM	2D3			M	2G4					EMB	3C1	M	3C1	EMB	3C1	B	3C1	5
4	PMEB	2G3	EM	α			EBM	1G9			M	1G8	EBM	3C6	EBM	3C6	EBM	3C5	M	1B2	4
3	M	3D1	EBM	2F6			M	1F7					EBM	2G5	BM	2G5	EBM	a	BM	3C5	3
2	PBEM	3G1	EBM	1F2			EBM	1F8					EBM	1F2	EBM	1F2	EBM	1F2	M	2F6	2
1	M	3E1	EBM	b			M	1E3					EBM	2E6	BM	2E6	EBM	2E6	M	2E6	1
COIL		2G3		2C3		1B8		1E3				1D9		3C2		3C2		3A3		1G2	COIL

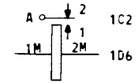
a 1A8 2H4

(E) 3C3
a (YL) 3C2
(YM) 2B2
b (YM) 2F3
(EZJ) 2B1

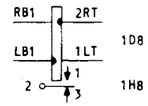
RELAY

DESIG	ACA			
CODE	AJ202			
OPTION				
	CONT ARR	LOC	CONT ARR	LOC
24	M	1C8		
23	M	2C3		
22	M	1E5		
21	M	2F7		
20	M	4C7		
19	M	3E2		
18	M	2E6		
17	M	1A6		
16	M	2E5		
15	M	2F6		
14	M	3E7		
13	M	3G7		
12	M	3G7		
11	M	3G2		
10	M	4B5		
9	M	2G6		
8	M	2G6		
7	M	1A7		
6	M	1A6		
5	M	2G7		
4	M	1C4		
3	M	1C4		
2	M	1C4		
1	M	1C5		
COIL		1A7		

RELAY
S
B1139



RELAY
H
S534



CAPACITOR

	DESIG	LOC	CODE
(ZH,XB)	A	1E4	KS-13614,L6,0.05 UF
	FB	1E2	KS-13614,L6,0.05 UF
	R	1E9	439A
	RV	1E3	444A,3UF
(YW)	S	1D6	KS-13486,60 UF
(YX)	S	1D6	KS-19524,L9,60UF
	TN	1G7	4418

DIODE

SEE VARISTOR

INDUCTOR

DESIG	LOC	CODE
H	1D5	274AC
(ZG) H1	1E5	274AH
(ZH,XB) H1	F5	274L

RESISTOR

DESIG	LOC	CODE
B	1D3	146A,5490 ±1%
BF	1F7	KS-13492,L1,2000
CS	2B2	18FB
H	1E7	18AE
HS	1E6	KS-13492,L1,1200
L	3D8	18FB
LS	1E6	KS-13492,L1,82
PD	2A4	18GF
S	3C8	19BA
SH	2B4	18BW
T	3B8	19BA

THERMISTOR

DESIG	LOC	CODE
R	1E8	8A

VARISTOR (DIODE)

	DESIG	LOC	CODE
	A	1E2	KS-15724,L2 DIODE
	B	1D3	KS-15724,L2 DIODE
	C	1D5	KS-15724,L2 DIODE
	D	1E9	400E DIODE
(ZV)	DR	1F3	420G DIODE
	E	1E9	317A VARISTOR
	F	2A2	KS-15724,L2 DIODE
	G	2A3	KS-15724,L2 DIODE
(E,ZJ,YM)	H	1B8	KS-15724,L2 DIODE
(E,ZJ,YM)	J	1C8	KS-15724,L2 DIODE
(YO)	K	1A7	446F DIODE
(A)	L	3F2	KS-15724,L2 DIODE
(YH)	M	1G4	446F DIODE
(YJ,YY)	N	1G2	446F DIODE
(YJ,YZ)	RS	3C2	446F DIODE
(YE)	SA	2C5	446F DIODE
(YE)	SB	2C5	446F DIODE

DRAWING ISSUE

1	S.I. M.K.
2B	F.S. C.M.D
3B	M.D. F.G.S
4A	V.B. BAT
5B	J.M. J.B.S
7B	BAT. K.B.S
8D	R.S. J.T.F.
10D	P.F.V. L.L.
11D	R.G. M.S.

LOST DRAWING REPRODUCED WITHOUT CHANGE 5-26-61

16B	V.C. CRA P.D.
17D	DHC ARM
21B	CED SAK GFH
22D	ROZ PJS RHP
23D	BCM SAK RHP
24AC	TEF PJS RHP
25D	BMM PJS LDJ
26AC	BMM PJS LDJ
28B	BMM PJS LDJ

28

TWO WAY TRUNK CIRCUIT
TO CENTRAL OFFICE

(2)

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APP FIG. 2

RELAY		[5]	[5]		
DESIG		SE0,2,4,6,8	SE1,3,5,7,9		
CODE		AK4			
OPTION					
	CONT ARR / LOC	CONT ARR / LOC	CONT ARR / LOC	CONT ARR / LOC	
12			M 4C1		
11			EBM		
10			EBM 4D1		
9			EMB 4A1		
8			EMB 4A1		
7					
6					
5		EMB 4A1			
4		EMB 4A1			
3		EBM 4D1			
2		EBM			
1		M 4C1			
COIL		4B1	4B1		

DIODE				LAMP, RESISTANCE				RESISTOR		
DESIG	LOC	CODE		DESIG	LOC	CODE		DESIG	LOC	CODE
(YN) [10] KO-9	1A7	KS-15724,L2		[10] (ZE) SLO-9	4B1	15B		[10] (ZF) SLO-9	4C1	145,3790

APP FIG. 3

JACK			LAMP		
DESIG	LOC	CODE	DESIG	LOC	CODE
T	4A4	295	L	4A4	2Y

APP FIG. 4 (MFR DISC)

JACK		
DESIG	LOC	COIL
T	4B4	510A

LAMP		
DESIG	LOC	CODE
L	4C4	2Y

APP FIG. 5

DIODE		
DESIG	LOC	CODE
FF	4E1	420G
R	4G2	420G

RESISTOR		
DESIG	LOC	CODE
R	4F2	KS-13492,L1 10,000

THERMISTOR		
DESIG	LOC	CODE
T1	4F1	8B

TRANSISTOR		
DESIG	LOC	CODE
Q1	4F1	12N

APP FIG. 6

RELAY

DESIG	[5] IC 0,2,4,6,8		[5] IC 1,3,5,7,9	
CODE	AK4			
OPTION				
	CONT ARR	LOC	CONT ARR	LOC
12			M	4B7
11			EBM	4C5
10			EBM	4F7
9			EMB	4E7
8			EMB	4F7
7				
6				
5	EMB	4F7		
4	EMB	4E7		
3	EBM	4F7		
2	EBM	4C5		
1	M	4B7		
COIL		4B6		4B6

DRAWING ISSUE

11D	PG AE
16B	KC CRA PD
17D	WAG DHC AKM
18D	WPA SAK KFJ
19D	WGN SAK GFH
21B	CEL SAK GFH

21

PBX SYSTEMS
TWO WAY TRUNK CIRCUIT TO CENTRAL OFFICE (2)

BELL TELEPHONE LABORATORIES INCORPORATED

DWG SIZE 6S

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CIRCUIT NOTES:

101.

DESIG	FUSE AMP	POTENTIAL	ONE PER	TERM DESIG
CO	I-1/3	-48V	APP FIG. 1,2	
FC1	I-1/3	-48V	PBX	
FC2	I-1/3	-48V	PBX	
CO		GRD	APP FIG. 1,2	

BATTERY SYMBOL: -48 — VOLTAGE RANGE: 45-52V

102.

FEATURE OR OPTION			PROVIDE APP FIG.	PROVIDE APP OR WIR	PROVIDE QUANTITY
ATTENDANT SERVICE	LOCKOUT	YES	1	Z	1 PER TRK
		NO		W	
	SECRECY	YES			
		NO		X	
	RESTRICTED	YES		Y	
		NO		V	
AUTOMATIC TRANSFER		NO TRKS 3,4 5,6,7,8,9		T	
		YES TRKS 0,1,2		S	
CENTRAL OFFICE NORMAL TALKING BATTERY VOLTAGE		40V OR MORE		R	
		39V OR LESS OR PANEL OFFICES		Q	
BY RELAY	PER F51895			P	
	PER AG-33			N	
SL/TLA RELALS	PER F51877			M	
	PER AK9				
FLEXIBLE NIGHT SERVICE CONNECTIONS SEE NOTE 105				YP, YQ	
TRUNK ARRANGED FOR (SEE NOTE 114)	2 WAY ASSIGNED SERVICE		2	YP, YR	
	2 WAY ASSIGNED SERVICE EQUIPPED FOR NIGHT CONNECTION-WITH CORD SWBD			K	
	ONE WAY INCOMING UN-ASSIGNED SERVICE		1	YQ, YS	TRK 6,7, 8 & 9
	LONG DISTANCE SERVICE BY SINGLE DIGIT DIALING				
TRUNK APPEARANCE AT CORD SWBD	NO				
	YES				
	RELAY EQUIP	556A	2	YG, ZE, YD	1 PER PBX
		608A OR D		YG, ZF, YE	
	JACK EQUIP	556A	3		
TRUNK CONNECTED TO	PANEL C.O.		5		1 PER TRK
	OTHER		1	ZT	
DIAL TRFR STA CONTROLLED		REQD		ZX	
		NOT REQD		ZW	
INDICATION OF CAMPED-ON CALL TO BUSY LINE		REQD	6	YK	1 PER PBX
		NOT REQD SEE NOTE 201			
STATION MESSAGE REGISTRATION (SEE NOTE 203)		REQD		YC	
		NOT REQD		YB	

103.

NETWORK VALUES		
NETWORK NO	RESISTANCE IN OHMS	CAPACITANCE IN UF

104.

CHANGED ON ISS	IF JOB RECORDS DO NOT SPECIFY	THIS OPTION WAS FURN	SEE NOTE	USE IN CIRCUIT STD	A & M	MD	
2B	Q OR P	Q	102	P		Q	
2B	N OR M	N	102	M		N	
5B	G OR H	H		G		H	
7B	E OR F	F	105	E		F	
8D	A OR B	B		A		B	
11D	ZA OR ZB	ZA		ZB		ZA	
11D	ZC OR ZD	ZC		ZD		ZC	
11D	ZE OR ZF	NONE		ZE, ZF			
11D	ZH OR ZG	ZG		ZH		ZG	
11D	ZJ OR ZL	E OR F	105,106	ZJ, ZL		E	
11D				FIG.3,4			
11D	FIG. 2 OR ZM	ZM		FIG.2 ZM			
14B	ZN	K OR J	102	ZN,K,J			
15B	ZO	NONE		ZO			
16B	ZP, ZQ	NONE	102	ZP, ZQ			
16B	ZR, ZS	ZR	102	ZR, ZS			
16B	ZT FIG. 5	ZT	102	ZT FIG.5			
16B	ZU, ZV	ZU		ZV		ZU	
17D	ZX, ZW	ZW	108	ZX, ZW			
	YA, FIG. 6	NONE	102	YA FIG. 6			
	ZZ, ZY	ZY	109	ZZ		ZY	
18D	YB OR YC	YB	102	YB, YC			
19D	YD, YE	YD	102	YD, YE			
	YF, YG	YF	102	YG		YF	
			110			FIG. 4	
20AC	Y I	YA	111 201	YI		YA	
	YK	NONE	102	YK			
21B	YH	NONE	112			YH	
		A	115			A	
	YJ	NONE		YJ			
21B	YL, YM	ZJ, YL	102	YM		ZJ, YL	
21B	YO	ZM, YN	113	YO		ZM, YN	
22D	YP, YR YQ, YS	ZQ, J ZN, ZP	102	YP, YR YQ, YS		ZQ, J ZN, ZP	
	YT	NONE		YT			
24AC	YU, YV	YU	115	YV		YU	
25D	YW, YX	YW		YX		YW NOTE 107	

104. (CONT)

CHANGED ON ISS	IF JOB RECORDS DO NOT SPECIFY	THIS OPTION WAS FURN	SEE NOTE	USE IN CIRCUIT STD	A & M	MD	
26AC	YY, YZ	YJ	116	YY, YZ		YJ	
28B	XA, XB	ZH		XB		ZH, XA	
28B						YY, YZ NOTE 116	

105. WHEN E, ZJ OR YM OPTION IS PROVIDED FOR FLEXIBLE NIGHT SERVICE CONNECTIONS, V OPTION SHALL BE PROVIDED IN CENTRAL OFFICE TRUNK CIRCUIT NO. 5, S OPTION IN LINE CIRCUIT NO. 33 AND R OPTION IN THE ALARM TRANSFER & TEST CKT.

106. WHEN MODIFYING EXISTING JOBS FOR "ZH" OPTION THAT DO NOT HAVE FLEXIBLE NIGHT CONNECTIONS (OPTION "E") PROVIDE "ZL" OPTION. WHEN "ZH" OPTION IS PROVIDED WITH FLEXIBLE NIGHT CONNECTIONS, PROVIDE "ZJ" OR "YM" OPTION.

(MFR DISC) 107. WHEN TRUNK UNITS ARE ADDED HAVING "A" OPTION, ALL OTHER TRUNK UNITS SHOULD BE WIRED FOR "A" OPTION.

108. WHEN THE PBX IS MODIFIED FOR DIAL TRANSFER STATION CONTROLLED, OPTION "ZX" MUST BE PROVIDED, REPLACING OPTION "ZW".

109. WHEN THE PBX IS MODIFIED TO PROVIDE AN AUXILIARY POSITION CIRCUIT, OPTION "ZZ" MUST BE PROVIDED.

110. PRIOR TO ISSUE 19D TRUNK JACKS AND LAMPS FOR USE WITH THE 608A SWITCHBOARD WERE SHOWN AS APP FIG. 4 ON THIS CIRCUIT.

111. OPTION YI IS REQUIRED ON EXISTING JOBS WHEN INDICATION OF CAMPED-ON CALL TO A BUSY LINK IS SPECIFIED. OPTION YA IS TO BE REMOVED.

112. OPTION YH IS ADDED AS A MANUFACTURED DISCONTINUED OPTION. THE INSTALLER SHALL ADD OPTION YH WHEN USING A 1A2 KEY TELEPHONE SYSTEM WITH A 400B K.T.U.

113. PRIOR TO ISSUE 21B OPTION YN WAS PART OF APP FIG. 2.

114. TRUNK MAY BE ARRANGED FOR ONE TYPE OF SERVICE ONLY.

115. IF OPTION A (L DIODE) IS REMOVED, OPTION YV MUST BE ADDED AND OPTION YU REMOVED. ASSOCIATED OPTIONS IN THE REGISTER CIRCUITS MUST BE PROVIDED: OPTIONS YZ PER ISSUE 24B OR OPTION XB PER ISSUE 26D. (SEE NOTE 202).

(MFR DISC) 116. THE INSTALLER SHALL REMOVE OPTION YJ AND ADD OPTIONS YY AND YZ ON ALL TRUNK UNITS FURNISHED PER ISSUE 21B OR LATER, EXCEPT OPTION YY MUST BE OMITTED ON ALL TRUNK UNITS WHEN MORE THAN ONE 1A1 KTU LINE CIRCUIT IS BRIDGED ON A STATION LINE OR WHEN A 24V4 REPEATER IS CONNECTED TO ANY STATION LINE FOR FX SERVICE.

WORKING LIMITS

"S" RELAY-THE TRUNK CONDUCTOR LOOP RES PLUS THE MAXIMUM STATION LOOP RES SHALL NOT EXCEED THE CENTRAL OFFICE SUBSCRIBER LOOP RANGE OF THE CONNECTING CENTRAL OFFICE LESS 65 OHMS.

CONDUCTOR LOOP RESISTANCE

"R" RELAY- RING UP 2000Ω; RERING 1200Ω

EQUIPMENT NOTES:

201. OPTION YK IS ALWAYS PROVIDED. WHEN INDICATION OF CAMPED-ON CALL TO BUSY LINE IS NOT REQUIRED YK OPTION SHALL BE REMOVED BETWEEN L WDG OF CS RELAY & 2U OF 1C9 RELAY.

202. WHEN TRUNKS PER ISSUE 21B OR LATER (WITHOUT "A" OPTION) ARE ADDED TO AN EXISTING PBX EQUIPPED WITH OLDER ISSUE TRUNKS (WITH "A" OPTION), THE TELEPHONE COMPANY MUST EITHER REMOVE "A" AND "YU" OPTIONS AND ADD "YV" OPTION TO ALL EXISTING TRUNKS AND ADD "YZ" OR "XB" OPTION TO EACH REGISTER CIRCUIT (SEE NOTE 115) OR, FURNISH AND INSTALL A 446F TYPE DIODE (DIODE L) IN PLACE OF OPTION "A" IN THE NEWLY ADDED TRUNK UNITS.

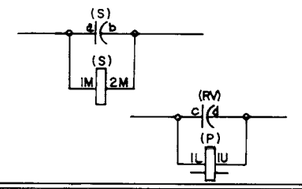
203. WHEN PLUG-IN TRUNKS (3,4,8 & 9) ARE USED, THE INSTALLER SHALL ADD OPTION YB TO THE PLUG-IN TRUNK WHEN THE FOLLOWING CONDITIONS EXIST:
1. TRUNK IS MADE PER ISSUE 18D AND PRIOR TO ISSUE 27AC.
2. THE PBX IS NOT ARRANGED FOR STATION MESSAGE REGISTERS.

WHEN PLUG-IN TRUNKS PER ISSUE 27AC OR LATER ARE USED AND WHEN STATION MESSAGE REGISTER FEATURE IS REQUIRED, THE INSTALLER SHALL REMOVE OPTION YB.

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.

ELECTROLYTIC CAPACITOR TEST REQUIREMENTS
(1000 CYCLE TEST, USING 73A TEST SET, BETWEEN 600Ω LINES)



OVERALL LOSSES

TEST	TEST CONN TEST SET TERM	TEST CONN CONN TO	MIN LOSS IN db	REMARKS
CAP(S)	3-6	2M 1M(S)	5.6	
CAP(RV)	3-6	1L 1U(P)	5.6	

ALLOWABLE INDIVIDUAL APPARATUS LOSSES

APPARATUS	DESIG	CODE	TEST CONNECTIONS TEST SET TERMINALS	TEST CONNECTIONS CONNECT TO	+MIN LOSS IN db	REMARKS
CAPACITOR	RV	444A	3-6	c - d	5.4	DISC. CAP. FROM CKT.
CAPACITOR	S	KS13486	3-6	a - b	5.4	DISC. CAP. FROM CKT.

CAUTION DISCHARGE CAPACITORS IN ACCORDANCE WITH THE A200 SECTION BSP COVERING THE TESTING OF ELECTROLYTIC CAPACITORS. DO NOT SHORT CKT. CAPACITORS.

DRAWING ISSUE	
1	S MR
2B	FS OD MD
3B	RS JTS
4A	BMM PJS LDJ
5B	BMM PJS LDJ
7B	RS JTS
8D	RS JTS
11D	MS RTC
13D	RT MR TEB
14B	VS HM TEB
15B	RR JJB TEB
16B	VC CRA PD
17D	MAE DHC ARM
18D	WRA SAK KFJ
19D	WGH SAK GFH
WORN DRAWING REPRODUCED WITHOUT CHANGE 6-1-66 ROZ	
20AC	CED SAK GEH
21B	CED SAK GFH
22D	ROZ PJS RHP
23D PM	BCM SAK RHP TEF
24AC	PJS RHP
25D	BMM PJS LDJ
26AC	BMM PJS LDJ
27AC	BMM PJS LDJ
28B	KAR PJS LDJ

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TWO WAY TRUNK CIRCUIT TO CENTRAL OFFICE

(2)

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SC 1
INCOMING CENTRAL OFFICE TRUNK CALL

CENT OFF. TRK SEIZED AT CENT. OFF.
(SILENT INTERVAL)

H
CT
SR
TL (CDLS POS) LAMP STEADY
L (6 BUT. KEY TEL SET) LAMP STEADY
TRK BY LAMP (MB CKT)
RING SIGNAL FROM CENT. OFF.
R
(YE)
(YD)
RI
RI
A (608A SWBD AUX SIG, FA, BCO, & MISC CKT)
L (6 BUT. KEY TEL SET) LAMP 120 IPM
TL (CDLS POS) LAMP 120 IPM
AUD SIG TO ATND
END OF RINGING CYCLE
R

SC 2
ATTENDANT ANSWERS INCOMING CALL SIGNAL
(PREVIOUS ACTION SHOWN IN SC 1)

PU (CDLS POS) KEY
ACA
S
AC
SI
(YE)
L (6 BUT. KEY TEL SET) LAMP STEADY
RI
H
A (608A SWBD AUX SIG, FA, BCO & MISC CKT)
TL (CDLS POS) LAMP STEADY
AUD SIG TO ATND SILENCED

SC 3
ATTENDANT DISCONNECTS
(PREVIOUS ACTION SHOWN IN SC 2)

RLS (CDLS POS) KEY
PU (CDLS POS) KEY
AC
ACA
S
SR
SI
H
(CENT. OFF. STILL HOLDING TRUNK OFF NORMAL)

SC 4
CENTRAL OFFICE DISCONNECTS
(PREVIOUS ACTION SHOWN IN SC 3)

H
SR
CT
SR
SR
L (6 BUT. KEY TEL SET) LAMP
TL (CDLS POS) LAMP
TRK BY LAMP (MB CKT)

SC 5
ATTENDANT PLACES HOLD ON INCOMING CENTRAL OFFICE TRUNK

(PREVIOUS ACTION SHOWN IN SC 2)

H (CDLS POS) KEY
H (CDLS POS)
(A) TLA
HD
L (6 BUT. KEY TEL SET) LAMP 30 IPM
TL (CDLS POS) LAMP 30 IPM
SP (CDLS POS)
H (CDLS POS) KEY
SPA (CDLS POS)
H (CDLS POS)
TR- (MKR)
MKR ACTION
SMR- (MKR)
HM
THM- (MKR)
CROSS POINTS CLOSE
L (REG)
SR (REG)
SL
ON (REG)
HMK- (MKR)
DIAL TONE TO ATTENDANT
MARKER RELEASES

SC 6
ATTENDANT DIALS STATION
(PREVIOUS ACTION SHOWN IN SC 5)

L (REG)
PI (REG)
RA (REG)
REGISTER RESPONDS TO ATTENDANT DIAL
DC (REG)
COT (REG)
R- (MKR)
RP- (MKR)
RCT- (MKR)
RCA- (MKR)
RV (REG)
MKR ACTION
P
L (6 BUT. KEY TEL SET) LAMP STEADY
MC
P
TLA
RS
CALLED STATION LINE IDLE
L (6 BUT. KEY TEL SET) LAMP 30 IPM
FB (CDLS POS)
HD
TL (CDLS POS) LAMP STEADY
MKR AND REG RELEASE
SL
SL (CDLS POS) LAMP 30 IPM
MC
RINGING CURRENT APPLIED TO CALLED LINE

SC 7
ATTENDANT WAITS ON LINE UNTIL RINGING INDUCTION IS HEARD
(PREVIOUS ACTION SHOWN IN SC 6)

RLS (CDLS POS) KEY
PU (CDLS POS) KEY
AC
ACA
SP (CDLS POS)
FB (CDLS POS)
SPA (CDLS POS)
CENTRAL OFFICE TRUNK HEARS RINGING INDUCTION

SC 8
STATION ANSWERS
(PREVIOUS ACTION SHOWN IN SC 6 OR SC 7)

SWITCHHOOK
SO
RT
TRK BY INC LAMP (MB CKT)
SR
RS
L (6 BUT. KEY TEL SET) LAMP STEADY
SL (CDLS POS) LAMP STEADY
RINGING CUT-OFF
CALLED STATION CUT THRU TO ATTENDANT OR CENT OFFICE

DRAWING ISSUE
1
8D
16B
17D
19D
21 B
22D
28B

TWO WAY TRUNK CIRCUIT TO CENTRAL OFFICE
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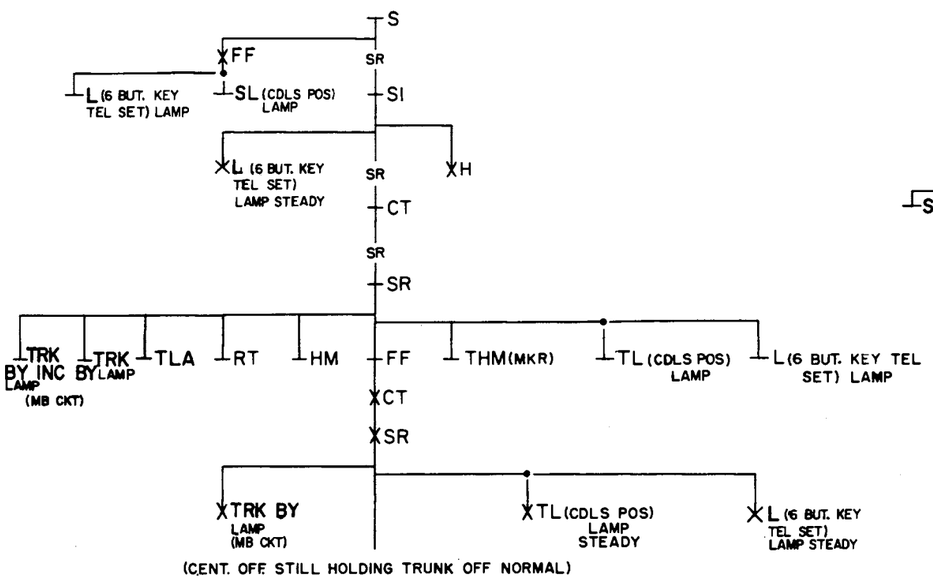
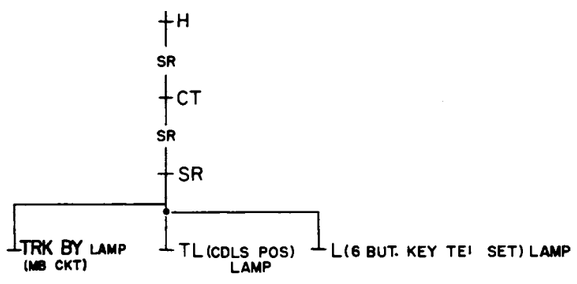
SC 9
CALLED STATION DISCONNECTS
(PREVIOUS ACTION SHOWN IN SC 8)

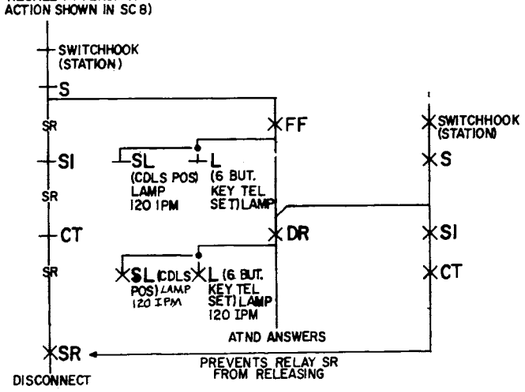


(CENT. OFF STILL HOLDING TRUNK OFF NORMAL)

SC 10
CENTRAL OFFICE DISCONNECTS
(PREVIOUS ACTION SHOWN IN SC 9)

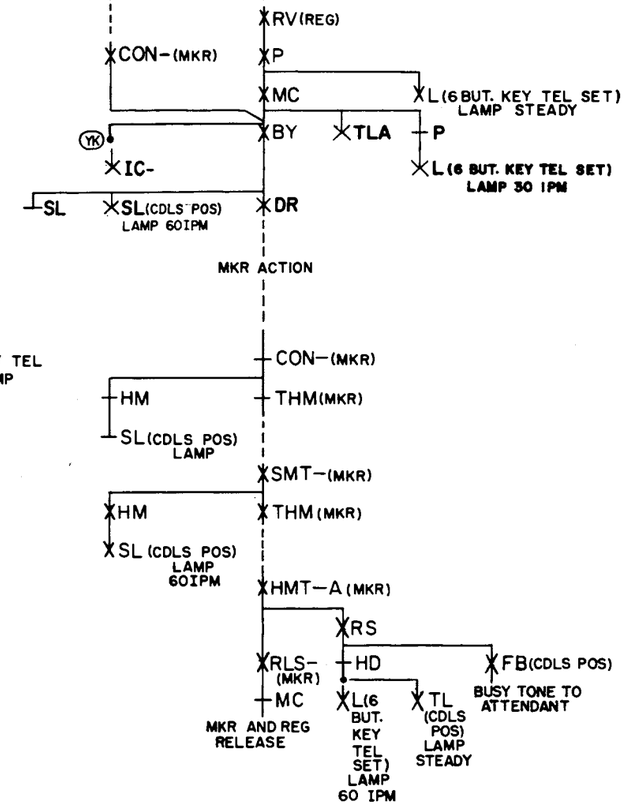


(ZW) SC 11
STATION RECALL ATTENDANT
(PREVIOUS ACTION SHOWN IN SC 8)

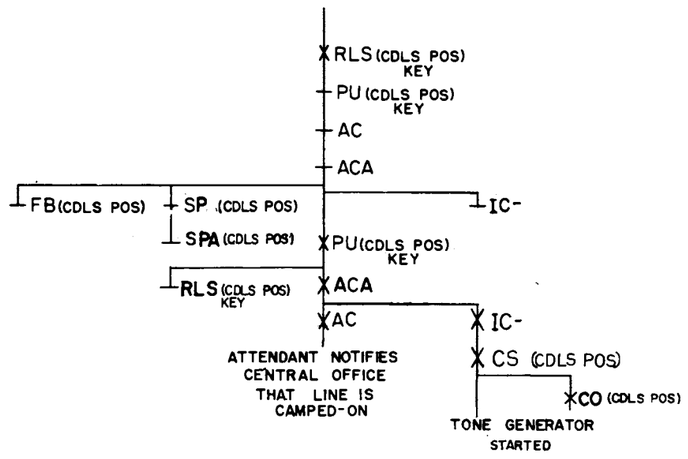


SC 12
CENTRAL OFFICE TRUNK CAMPS-ON BUSY STATION

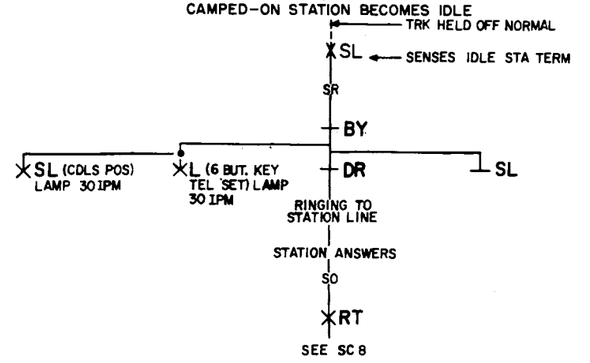
MKR AND REG ACTION INITIALLY AS IN SC 6



SC 13
ATTENDANT RECONNECTS TO CENTRAL OFFICE
AFTER RECEIVING CAMP-ON TONE INDICATION

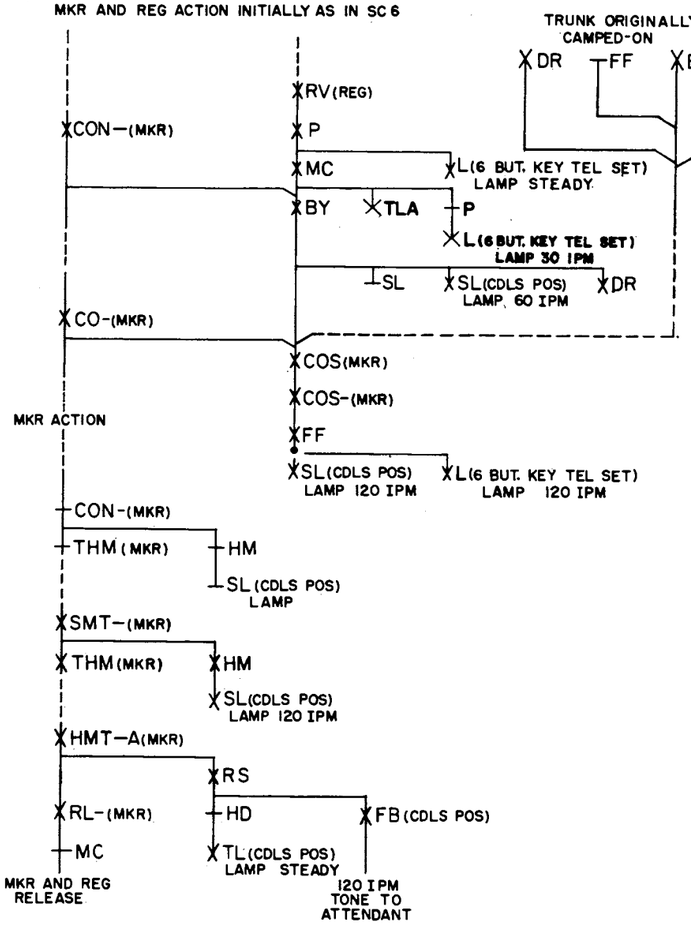


SC 14
CAMPED-ON STATION BECOMES IDLE



SC 15
CENTRAL OFFICE TRUNK RECEIVES CAMP-ON BUSY

MKR AND REG ACTION INITIALLY AS IN SC 6



DRAWING ISSUE

1	S.L. M.R.	
8D		
16B	V.C. CRA P.D.	
17D	DMC MRM	
20AC	CED SAK GFH	
21B	CED SAK GFH ROZ	
22D PM	PJS	
28B PM	PJS L.D.K.	

TWO WAY TRUNK CIRCUIT TO CENTRAL OFFICE (2)

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SC 16

ATTENDANT DISCHARGES CAMP-ON OR CAMP-ON BUSY CONNECTION
(PREVIOUS ACTION AS IN SC 13 OR SC 15)

- H (CDLS POS) KEY
- H (CDLS POS)
- SR
- RS
- CAMP-ON BUSY
- SP (CDLS POS)
- FB (CDLS POS)
- H (CDLS POS) KEY
- H (CDLS POS)
- THM (MKR)
- HM
- IC-
- SR
- SL (CDLS POS) LAMP
- BY
- DR
- ATND CONNECTED TO CENTRAL OFFICE
- L (6 BUT. KEY TEL SET) LAMP 30 IPM

SC 17

INCOMING CENTRAL OFFICE TRUNK REQUESTS CONNECTION
TO DIAL REPEATING OR DIAL TRANSMITTING TIE TRUNK
(PREVIOUS ACTION SHOWN IN SC 5)
ATTENDANT DIALS TIE TRUNK CODE

- L (REG)
- PI (REG)
- RA (REG)

REG RESPONDS TO ATTENDANT DIALED TIE TRUNK CODE

- DC (REG)
- TR (REG)
- R- (MKR)
- TT (REG)
- RP- (MKR)
- COT (REG)
- RCT- (MKR)
- RV (REG)
- RCA (MKR)
- RV (REG)
- MKR ACTION
- P
- L (6 BUT. KEY TEL SET) LAMP STEADY
- MC
- THM (MKR)
- TLA
- P
- TT
- L (6 BUT. KEY TEL SET) LAMP 30 IPM
- TL (CDLS POS) LAMP STEADY
- SL (CDLS POS) LAMP 30 IPM
- MKR AND REG RELEASE
- DC (REG), TR (REG), TT (REG), COT (REG), R- (MKR), RP- (MKR), RCT- (MKR), RCA (MKR), RV (REG), L (REG), MC

CONNECTION TO TIE TRUNK COMPLETE, ATTENDANT DIALS OR MANUAL PBX ANSWERS, TIE TRUNK SUPERVISES

- RV (TIE TRK)
- P
- SO
- L (6 BUT. KEY TEL SET) LAMP STEADY
- TRK BY INC LAMP (MB CKT)
- RT
- SL (CDLS POS) LAMP STEADY
- CENTRAL OFFICE TRUNK CONNECTED TO ANSWERED TIE TRUNK

SC 18

ATTENDANT ORIGINATES CENTRAL OFFICE CALL

- PU (CDLS POS) KEY
- ACA
- AC
- S
- SI
- TRK BY LAMP (MB CKT)
- TL (CDLS POS) LAMP STEADY
- L (6 BUT. KEY TEL SET) LAMP STEADY
- GRD START TO CENT OFF OVER RING LEAD; CENT OFF RETURNS GRD OVER THE TIP LEAD
- H
- CT
- DIAL TONE FROM CENTRAL OFFICE TO ATTENDANT
- SR
- H
- ATTENDANT DIALS THRU TO CENRAL OFFICE

SC 19

ATTENDANT HOLDS CENTRAL OFFICE TRUNK TO HANDLE OTHER TRAFFIC
(PREVIOUS ACTION SHOWN IN SC 18 OR SC 2)

- H (CDLS POS) KEY
- H (CDLS POS)
- HD
- SP (CDLS POS)
- L (6 BUT. KEY TEL SET) LAMP 301PM
- TL (CDLS POS) LAMP 301PM
- H (CDLS POS) KEY
- H (CDLS POS)
- TR- (MKR)
- MKR ACTION
- SMR- (MKR)
- HM
- THM- (MKR)
- CROSS POINTS CLOSE
- L (REG)
- SR (REG)
- SL
- ON (REG)
- DIAL TONE TO ATTENDANT
- ATTENDANT DISCONNECTS
- RLS (CDLS POS) KEY
- PU (CDLS POS) KEY
- AC
- ACA
- L (REG)
- SP (CDLS POS)
- SR (REG)
- SL
- ON (REG)
- HM
- THM- (MKR)

SC 20

ATTENDANT REENTERS HELD CENTRAL OFFICE TRUNK
(PREVIOUS ACTION SHOWN IN SC 19)

- PU (CDLS POS) KEY
- ACA
- AC
- HD
- L (6 BUT. KEY TEL SET) LAMP STEADY
- TL (CDLS POS) LAMP STEADY

DRAWING ISSUE

	S.L. M.R.
1	
8D	R.S. JFF
16B	V.C. CRA P.D.
17D	DHC ARW
21B	CED SAK GEH
22D PM	ROZ RHF
28B	BMM RJS LDJ

TWO WAY TRUNK CIRCUIT TO CENTRAL OFFICE

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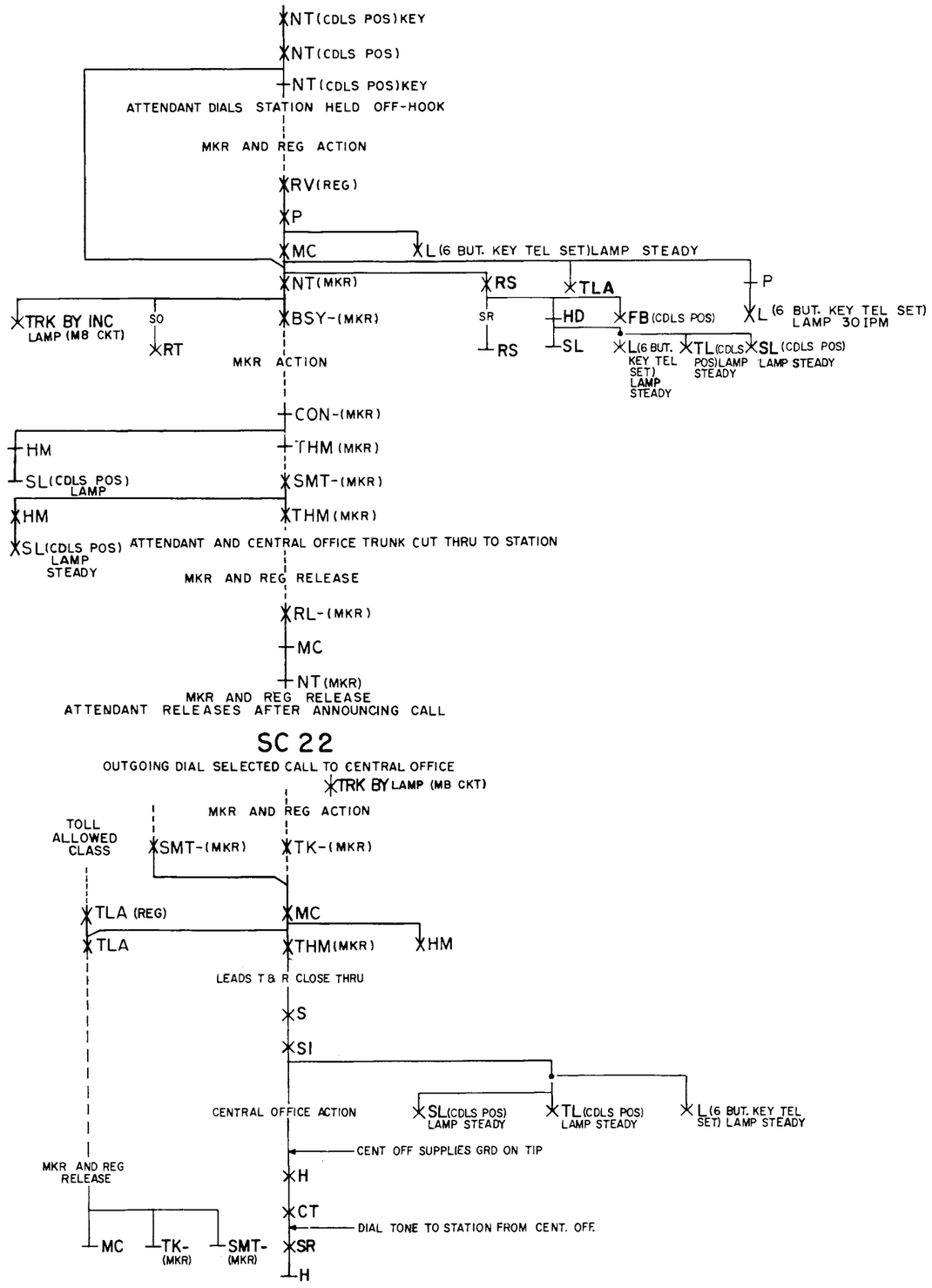
SC 21

ATTENDANT PLACES NO-TEST CALL TO RESTRICTED STATION
(PREVIOUS ACTION AS IN SC 5 EXCEPT ATTENDANT PLACES OUTGOING CENTRAL OFFICE CALL INITIALLY)



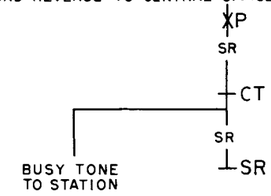
SC 22

OUTGOING DIAL SELECTED CALL TO CENTRAL OFFICE

SC 23

TOLL DENIED STATION DIALS LD CODE
(PREVIOUS ACTION SHOWN IN SC 22
WITH TLA CLASS NORMAL)

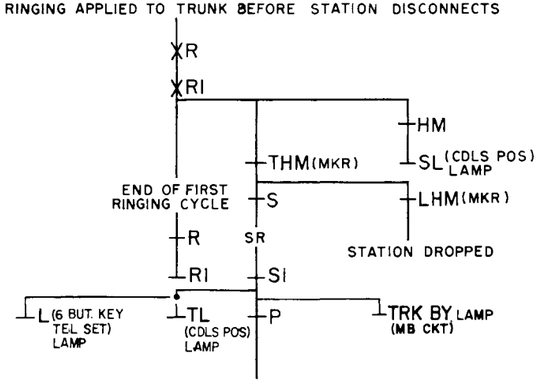
BAT & GRD REVERSE TO CENTRAL OFFICE TRUNK WHEN TOLL OPERATOR ANSWERS



SC 24

CENTRAL OFFICE TRUNK SEIZED AT CENTRAL OFFICE IMMEDIATELY AFTER TOLL DENIED STATION IS DIVERTED AT PBX
(PREVIOUS ACTION SHOWN IN SC 23)

CENTRAL OFFICE RINGING APPLIED TO TRUNK BEFORE STATION DISCONNECTS



CENTRAL OFFICE TRUNK RESTORED TO NORMAL
(SUBSEQUENT ACTION AS IN SC 1)

SC 25

TOLL ALLOWED STATION DIALS LD CODE
(PREVIOUS ACTION SHOWN IN SC 22
WITH TLA CLASS OPERATED)

BAT. & GRD REVERSE FROM TOLL TRUNK AFTER LD OPERATOR ANSWERS
OPERATOR RECEIVES INFORMATION FROM STATION

DRAWING ISSUE		
1	S.L. N.R.	
8D	R.S.	
16B	V.C. K.R.A. P.D.	
21 B	CED SAK GEH ROZ	
22D PM	PJS RHP	
28B	BMM PJS LDJ	

TWO WAY TRUNK CIRCUIT TO CENTRAL OFFICE

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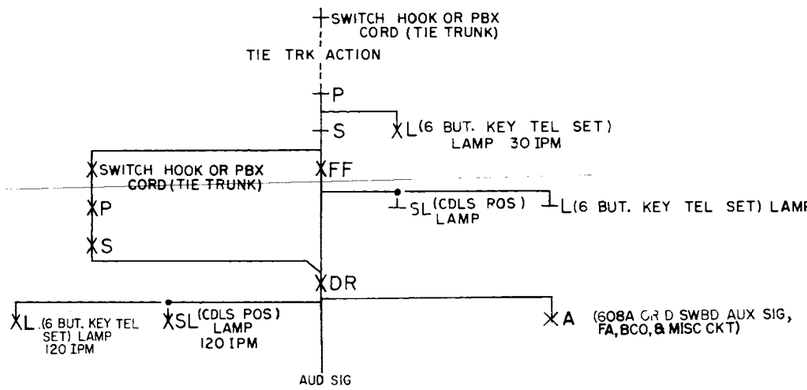
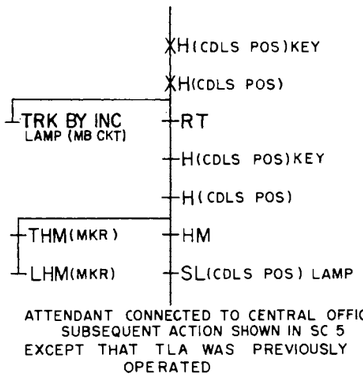
SC 26

RECALL FROM DIAL REPEATING OR DIAL TRANSMITTING TIE TRUNK
(PREVIOUS ACTION SHOWN IN SC 17)



SC 27

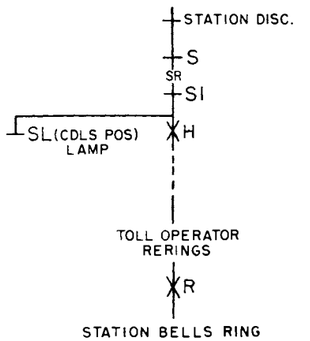
ATTENDANT DISCONNECTS NO-TEST CALL
(PREVIOUS ACTION AS IN SC 21 EXCEPT
ATTENDANT OPERATES H KEY INSTEAD OF RELEASING)



ATTENDANT CONNECTED TO CENTRAL OFFICE
SUBSEQUENT ACTION SHOWN IN SC 5
EXCEPT THAT TLA WAS PREVIOUSLY
OPERATED

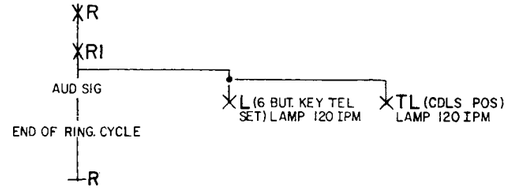
SC 28

TOLL OPERATOR RERINGS ON TOLL ALLOWED STATION CALL
THAT HAS DISCONNECTED
(PREVIOUS ACTION AS IN SC 22)



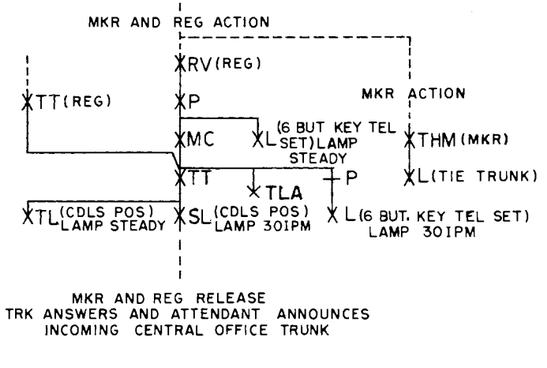
SC 29

TOLL OPERATOR RERINGS ON ATTENDANT ORIGINATED CALL
(PREVIOUS ACTION SHOWN IN SC 19)



SC 30

INCOMING CENTRAL OFFICE TRUNK REQUESTS RING DOWN TIE TRUNK CONNECTION
(PREVIOUS ACTION SHOWN IN SC 5)
ATTENDANT DIALS TIE TRUNK CODE



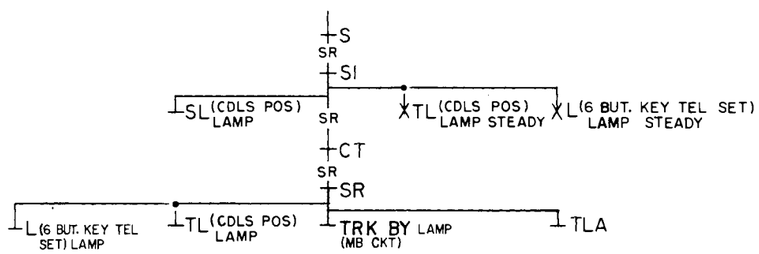
MKR AND REG RELEASE
TIE TRK ANSWERS AND ATTENDANT ANNOUNCES
INCOMING CENTRAL OFFICE TRUNK

SC 31

DIAL REPEATING DIAL TRANSMITTING OR RING DOWN
TIE TRUNK ORIGINATES CENTRAL OFFICE CALL
(ACTION SAME AS IN SC 22)

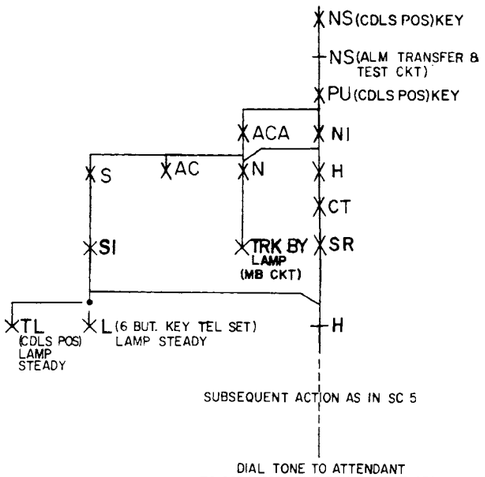
SC 32

STATION DISCONNECTS AFTER DIALING CENTRAL OFFICE
(PREVIOUS ACTION SHOWN IN SC 22)



SC 33

FLEXIBLE NIGHT CONNECTION



DRAWING ISSUE

1	S.L. W.R.
7B	BAT JAS
8D	R.T. MJG VC CRA P.D. KMW
16B	DHC ARM
17D	WGN SAK GFH
19D	CED SAM GFH
21B	ROZ PJS
22D	RHR BMM
28B	RJS LDJ

TWO WAY TRUNK CIRCUIT TO CENTRAL OFFICE (2)

BELL TELEPHONE LABORATORIES INCORPORATED

DWG SIZE 6S

28

SD-65752-01-E5

3D-65752-01-E5

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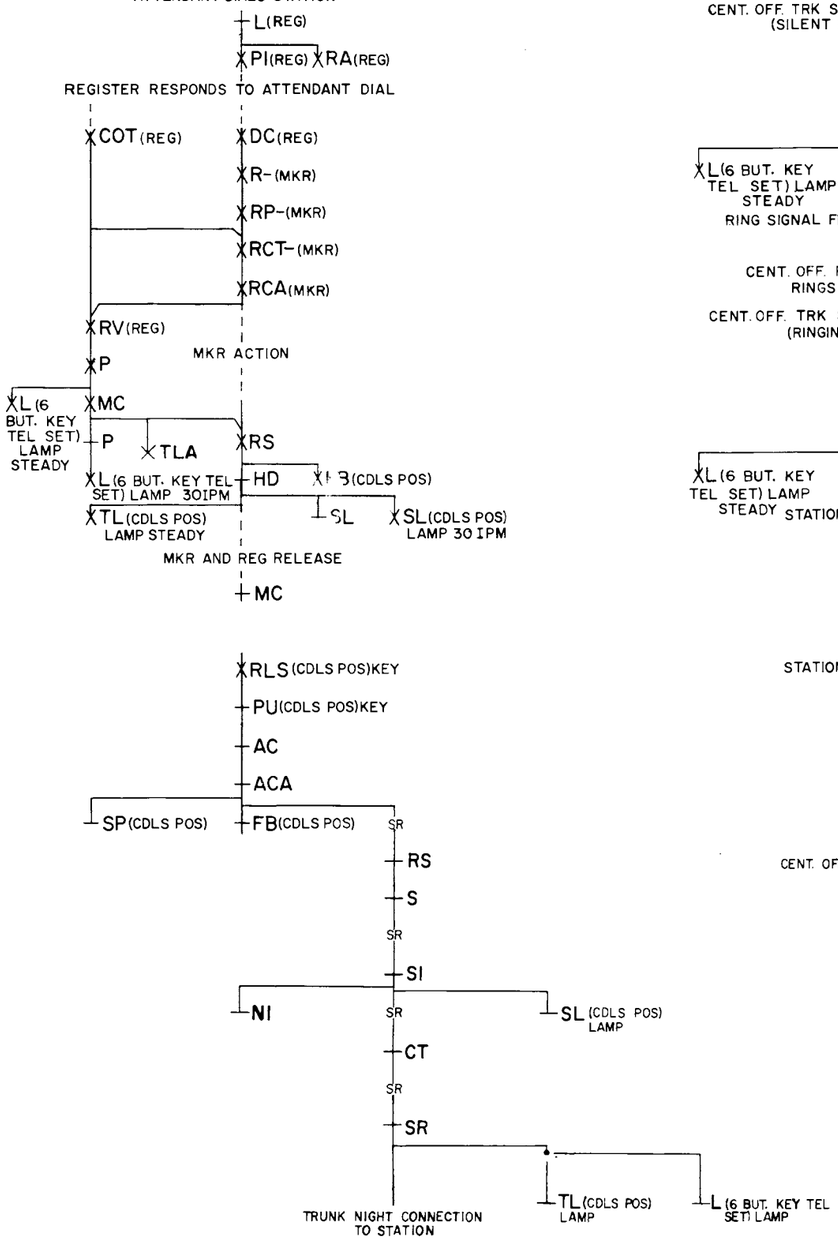
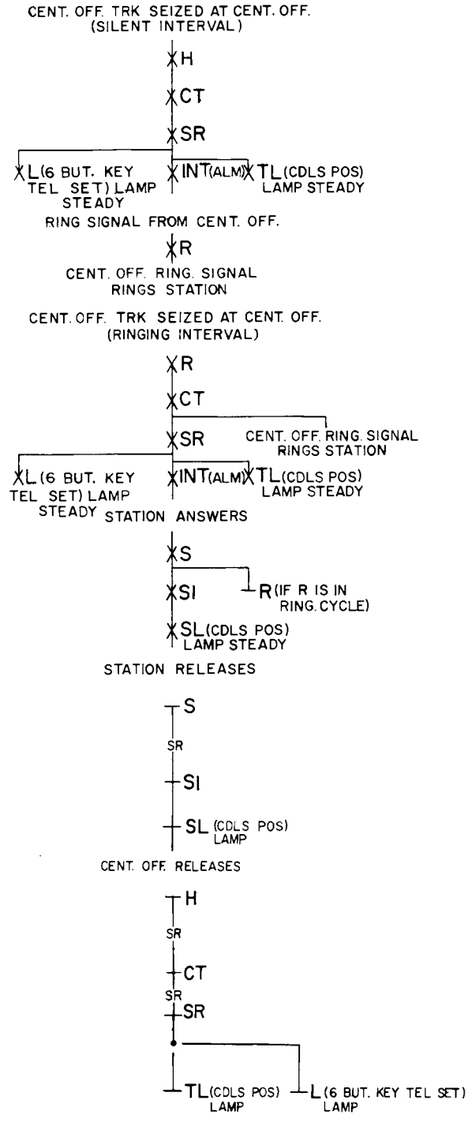
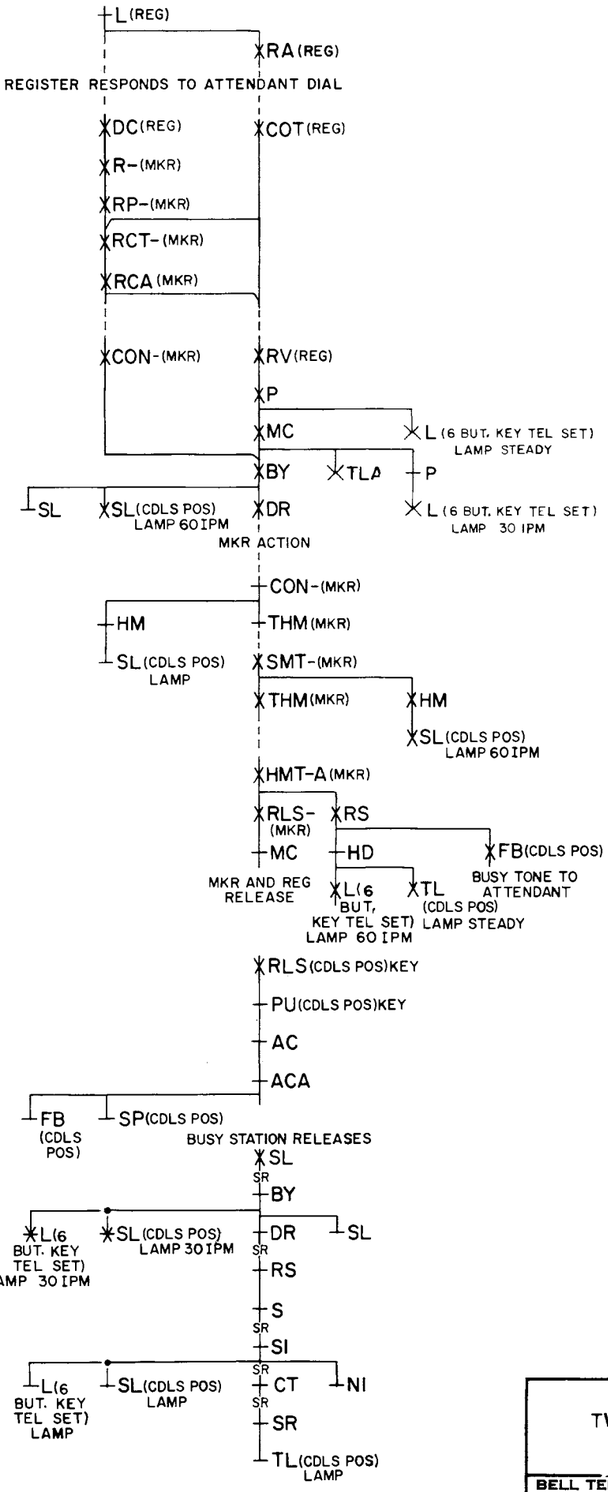
SC 34
FLEXIBLE NIGHT CONNECTION
IDLE TRUNK TO IDLE STATION
ATTENDANT DIALS STATION



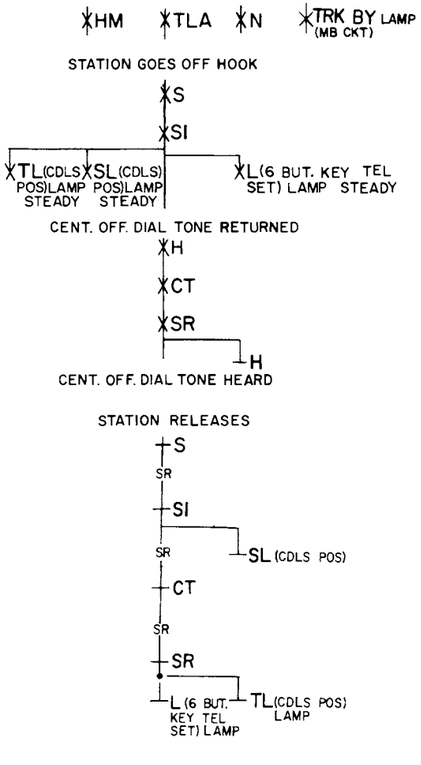
SC 35
FLEXIBLE NIGHT CONNECTION
INCOMING CALL TO NIGHT CONNECTED TRUNK



SC 36
FLEXIBLE NIGHT CONNECTION
IDLE TRUNK TO BUSY STATION
ATTENDANT DIALS STATION



SC 37
FLEXIBLE NIGHT CONNECTION
OUTGOING CALL FROM A STATION ON
NIGHT CONNECTION



DRAWING ISSUE
7B BAT JBS VC
16B CRA PD
21B CED SAK GFH
22D ROZ PJS RHP
28B BMM PJS LDJ

TWO WAY TRUNK CIRCUIT TO CENTRAL OFFICE (2)

BELL TELEPHONE LABORATORIES INCORPORATED

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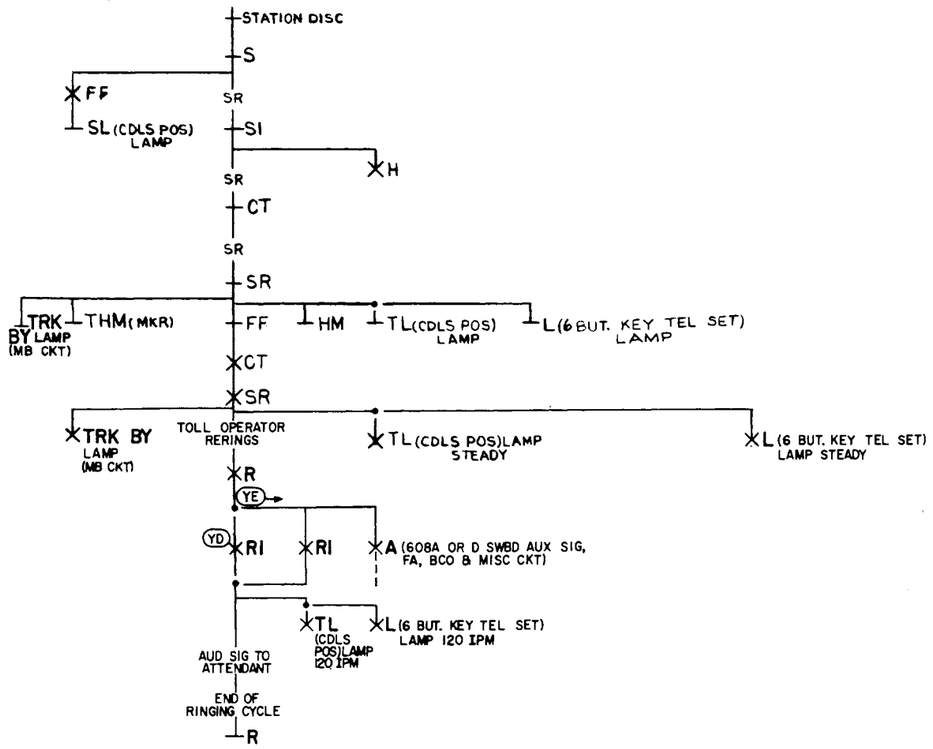
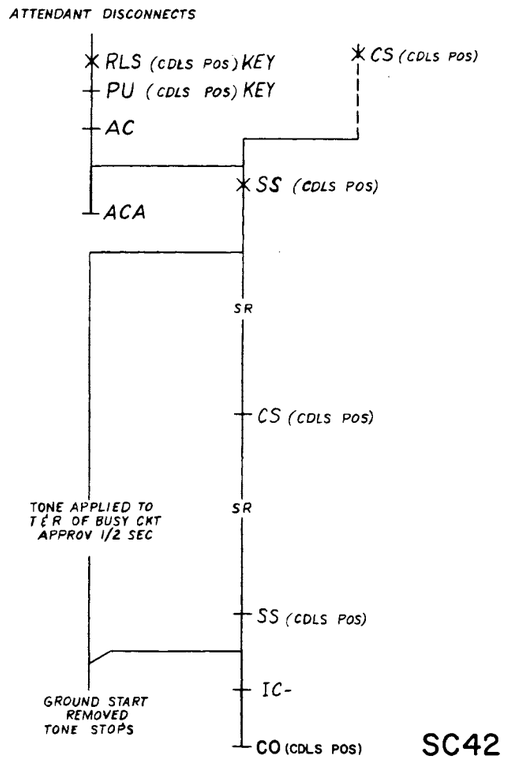
SC 38

TOLL OPERATOR RERINGS ON TOLL DENIED OR RESTRICTED STATION CONNECTED BY THE ATTENDANT (PREVIOUS ACTION AS IN SC 21)



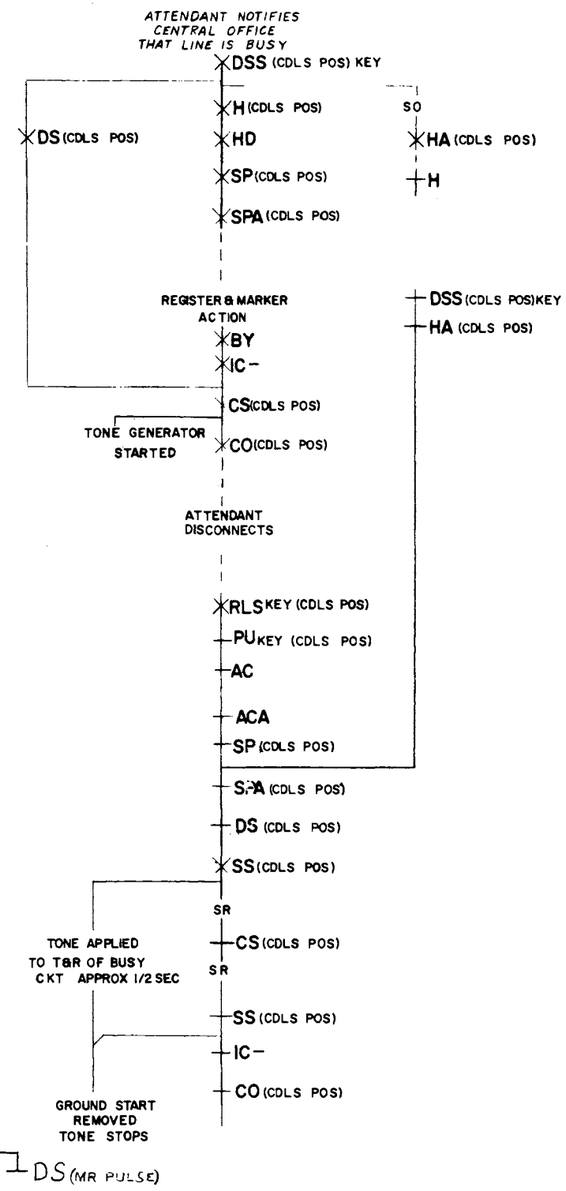
SC 40

INDICATION OF CAMPED-ON CALL TO BUSY LINE (PREVIOUS ACTION SHOWN IN SC13)



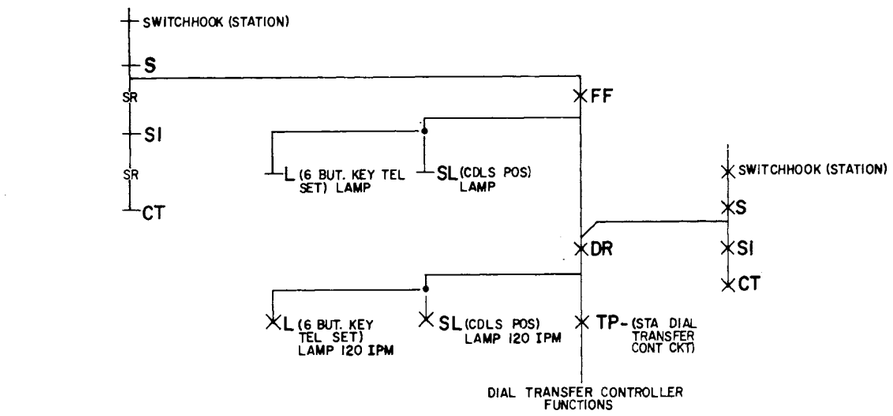
SC 41

INDICATION OF CAMPED-ON CALL TO BUSY LINE USING DSS (PREVIOUS ACTION SHOWN IN SC 2)



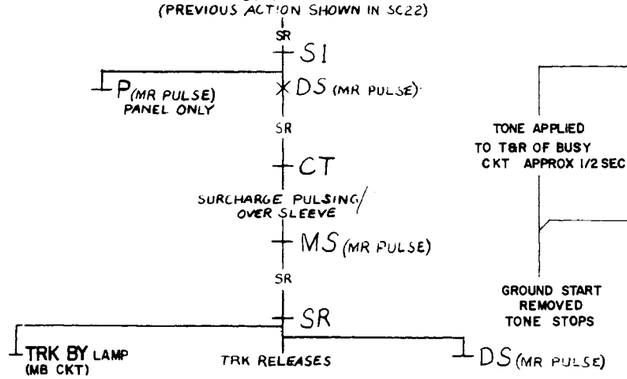
(ZX) SC 39

STATION DIAL TRANSFER (PREVIOUS ACTION SHOWN IN SC 8)



SC42

MESSAGE REGISTER SURCHARGING (PREVIOUS ACTION SHOWN IN SC22)



DRAWING ISSUE

80	R.S.	1
	J.S.F.	
	P.D.	
168	V.C.	2
	KRA	
	P.D.	
17D	DHC	3
	AEM	
18D	WPA	4
	SAK	
	KFJ	
19D	WGN	5
	SAK	
	GFH	6
20AC	CED	7
	SAK	
	GFH	
22D	ROZ	8
	FJS	
	RHP	9
28B	BMM	10
	FJS	
	LDJ	

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TWO WAY TRUNK CIRCUIT TO CENTRAL OFFICE (2)

BELL TELEPHONE LABORATORIES INCORPORATED

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SD-65752-01 2 PAGES

CIRCUIT REQUIREMENTS

2 WAY TRUNK CIRCUIT TO CENTRAL OFFICE (CC TRK)

APPARATUS DESIG	APPARATUS CODE	APPARATUS OPTION	APPARATUS FIG.	MECH REQT BSP FIG.	MECH REQT CONT PRESS.	MECH REQT ARM. TRVL.	CIRCUIT PREPARATION BLOCK OR INSULATE	CIRCUIT PREPARATION TEST CLIP DATA CONN BAT.	CIRCUIT PREPARATION TEST CLIP DATA CONN GRD	TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT TEST WDG	TEST FOR	AFTER SOAK MA.	TEST MA.	READJ MA.	REMARKS
RELAYS																	
AC	AF139		1	25E					U(AC)	GRD			O		8.3	7.9	
									U(AC)	GRD			H		4.E	4.5	
ACA	AJ202		1	50C			10(HM)	L(ACA)	U(ACA)	B/G			C		42.5	40.5	
BY	AG33	P	1	305B					U(BY)	GRD			C	FS	14.7	14	
													H	FS	2.5	2.3	
													R	FS	1.3	1.5	
BY	F51895	Q	1	309B					U(BY)	GRD			C	FS	14.7	14.	
													H	FS	2.5	2.3	
													R	FS	1.3	1.5	
CT	AG16		1	233B					U(CT)	GRD			O	FS	17.5	16.5	
DR	1/2 AK8		1	204					1U(DR)	GRD			O		9.2	8.7	MOUNTED WITH (RI)
FF	AJ15		1	249					U(FF)	GRD			O		42.5	40.5	
H	S534		1			SPL	2(SI)	RBI(H)	2RT(H)	B/G	2	P	O	FS	3.3	3.1	
							2(SI)	RBI(H)	2RT(H)	B/G		P	NC	FS	2.4	2.6	
							2(SI)	RBI(H)	2RT(H)	B/G		P	R	FS	2.2	2.3	
							(SI)NO	1LT(H)	2RT(H)	B/G		P/S	O		1.7		
							(SI)NO	1LT(H)	2RT(H)	B/G		P/S	R		1		
HC	AJ18		1	249			3B(RS)		U(HD)	GRD			O		42.5	40.5	
HM	AF100		1	252			6(HM)		U(HM)	GRD			O		41.5	39.5	
MC	AJ56		1	413			4(MC)		U(MC)	GRD			O		57.5	54.5	
N	1/2 AK7	E,ZJYM	1	203					1L(N)	GRD			O		27	25.5	MOUNTED WITH (N1)
N1	1/2 AK7	E,ZJYM	1	203					1U(N1)	GRD			O		27	25.5	MOUNTED WITH (N)
P	AJ28		1	257					2U(P)	GRD		S	O		12.4	11.8	
									2U(P)	GRD		S	R		1.9	2	WDG ALONE & WDG WITH VARISTOR SHUNT
							(AC)O	1L(P)	1U(P)	B/G		P	O		23.5	22	
							(AC)O	1L(P)	1U(P)	B/G		P	NO		11.1	11.5	
R	AJ48		1	3			2B(SI)	2U(R)	2L(R)	B/G	1	S	O		5.4	5.1	WDG ALONE & WDG WITH VARISTOR SHUNT
RI	1/2 AK8.		1	204					1L(RI)	GRD			O		17	16	MOUNTED WITH (DR)
RS	AJ3	ZG	1	226			5B(RT)		U(RS)	GRD			C		19	17	
RS	AJ15	ZH	1	249			5B(RT)		U(RS)	GRD			O		42.5	40.5	
RT	AJ58		1	308			7(MC)	1L(RT)	1U(RT)	B/G		P	O		26	26.5	EM CONTACTS NEED ONLY MAKE
							7(MC)	1L(RT)	1U(RT)	B/G		P	O		29.5	28	
							7(MC)	1L(RT)	1U(RT)	B/G		P	NC		20	21.5	
							(AC)O		2U(RT)	GRD		S	O		19		
S	B1139		1	14	30			1M(S)	2M(S)	B/G			O		6.9	6.6	
								1M(S)	2M(S)	B/G			R		3	3.2	
SI	AG34		1	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	
SE0,2 4,6,8	1/2 AK4		2	202					1L REL	GRD			O		11.9	11.3	MTD WITH (SE1,3,5,7,9) RESPECTIVELY
									1L TST								
SE1,3 5,7,9	1/2 AK4		2	202					1U REL	GRD			O		11.9	11.3	MTD WITH (SE0,2,4,6,8) RESPECTIVELY
									1U TST								
SL	1/2 AK9	M	1	5					1L(SL)	GRD			O		25.5	24	MOUNTED WITH (TLA)
									1L(SL)	GRD			NO		11.8	12.5	
SL	1/2 F51877	N	1	6					1U(SL)	GRD			O		25.5	24	MOUNTED WITH (TLA)
									1U(SL)	GRD			NO		11.8	12.5	

DRAWING ISSUE

1	S.L. M.R.	WLS
2B	R.S. C.M.D.	R.A.C.
6B	J.A.T. M.S.	W.F.I.
7B	J.A.T. J.A.S.	T.E.B.
8D	R.S. J.D.C.	R.D.
9B	J.A.T. M.H.	T.E.B.
11D	R.G. M.D.	F.D.
12D	V.S. M.R. M.W.B.	T.E.B.
17D		
23D	BCM SAK RHF	
28B	EMM PJS LDJ	

TEST NOTES:

1. ARMATURE BACK TENSION TEST MIN 15 GRAMS READJ MIN 20 GRAMS.
2. ARM. TRVL 40±1; ARM. BASE GAP SPL 30±2.

TWO WAY TRUNK CIRCUIT TO CENTRAL OFFICE

SD-65752-01-FI

BELL TELEPHONE LABORATORIES, INC

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APPARATUS DESIG	APPARATUS CODE	APPARATUS OPTION	APPARATUS FIG.	MECH REQT BSP FIG.	MECH REQT CONT PRESS.	MECH REQT ARM. TRVL.	CIRCUIT PREPARATION BLOCK OR INSULATE	CIRCUIT PREPARATION TEST CLIP DATA CONN BAT.	CIRCUIT PREPARATION TEST CLIP DATA CONN GRD	TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT TEST WDG	TEST FOR	AFTER SOAK MA.	TEST MA.	READJ MA.	REMARKS
SR	AG34		1	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	
TLA	1/2 AK9	M	1	5					2U(TLA)	GRD			O		7.7	7.3	MOUNTED WITH (SL)
TLA	1/2 F51877	N	1	6					1L(TLA)	GRD			O		7.7	7.3	MOUNTED WITH (SL)
TT	AJ12		1	220			1M(TT)		U(TT)	GRD			O		42.5	40.5	
IC 0,2,4 6,8	1/2 AK4		6	202					1L(IC-)	GRD	1		O		11.9	11.3	MOUNTED WITH (IC1,3,5,7,9)
IC 1,3,5, 7,9	1/2 AK4		6	202					1U(IC-)	GRD	1		O		11.9	11.3	MOUNTED WITH (IC0,2,4,6,8)
RS	AG53	XB	1	249B			5B(RT)		1U(RS)	GRD		P	O	FS	65	62	
							5B(RT)		1U(RS)	GRD		P	H	FS	12	11.4	
							5B(RT)		1U(RS)	GRD		P	R	FS	5.9	6.6	
							5B(RT)	2L(RS)	1U(RS)	B/G		S	O	FS	85	80	

DRAWING ISSUE

1	S.L. M.R.	WLS
2B	R.S. C.M.D.	R.A.C.
6B	J.A.T. M.S.	W.F.I.
7B	J.A.T. J.A.S.	T.E.B.
8D	R.S. J.D.C.	R.D.
9B	J.A.T. M.H.	T.E.B.
11D	R.G. M.D.	F.D.
12B	V.S. M.R.	T.E.B.
17D	M.W.B.	
23D	BCM SAK RHF	
28B	EMM PJS LDJ	

TEST NOTES:

1. CONNECT TEST CLIP TO RELAY BEING TESTED.

TWO WAY TRUNK CIRCUIT TO CENTRAL OFFICE (2)

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SHEET INDEX

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3	SC 1 - SEIZURE-PBX STATION DIALS "0" SC 2 - SEIZURE - TOLL DENIED STATION DIALS "9" OR REGISTER TIMES OUT SC 3 - ATTENDANT ANSWERS SC 4 - ATTENDANT ANSWERS SC 5 - ATTENDANT ORIGINATES CALL SC 6 - ESTABLISHING HOLD CONDITION SC 7 - ATTENDANT RE-ENTERS TRUNK AFTER HOLD CONDITION WAS ESTABLISHED SC 8 - KICK OFF SC 9 - ATTENDANT DISCONNECTS BEFORE CALLING STATION IS "ON HOOK" AFTER ANSWERING AN INCOMING CALL-NO HOLD COND: ION ESTABLISHED SC 10 - CORD SWITCHBOARD OPERATION
4	CIRCUIT REQUIREMENTS TABLE APP FIG. 1 APP FIG. 2

CIRCUIT NOTES:

101.

DESIG	FUSE AMP	POTENTIAL	ONE PER	TERM. DESIG
AT	1-1/3	-48V PROTECTED	ATT TRK CKT	

BATTERY SYMBOL: -48 — VOLTAGE RANGE: 45-52V

20~ — 75-110V AC; 45-52V DC

102.

FEATURE OR OPTION		PROVIDE APP FIG.	PROVIDE APP OR WIRING	PROVIDE QUANTITY
OPERATION WITHOUT PBX ATTENDANT		1	X	1 PER CKT
OPERATION WITH CORDLESS ATTENDANT POSITION NO. 1.		1	W,Y,G	
OPERATION WITH CORDLESS ATTENDANT POSITION NO. 2		1	W,G	
OPERATION WITH CORD SWBD AS ATTENDANT POSITION NO. 1	556A	1,2	Z	
	608A OR D	1	A	
OPERATION OF ATTENDANT TRUNK NO. 2 WITH BUSY VERIFICATION AUXILIARY TRUNK CIRCUIT			F	1 PER PBX

103.

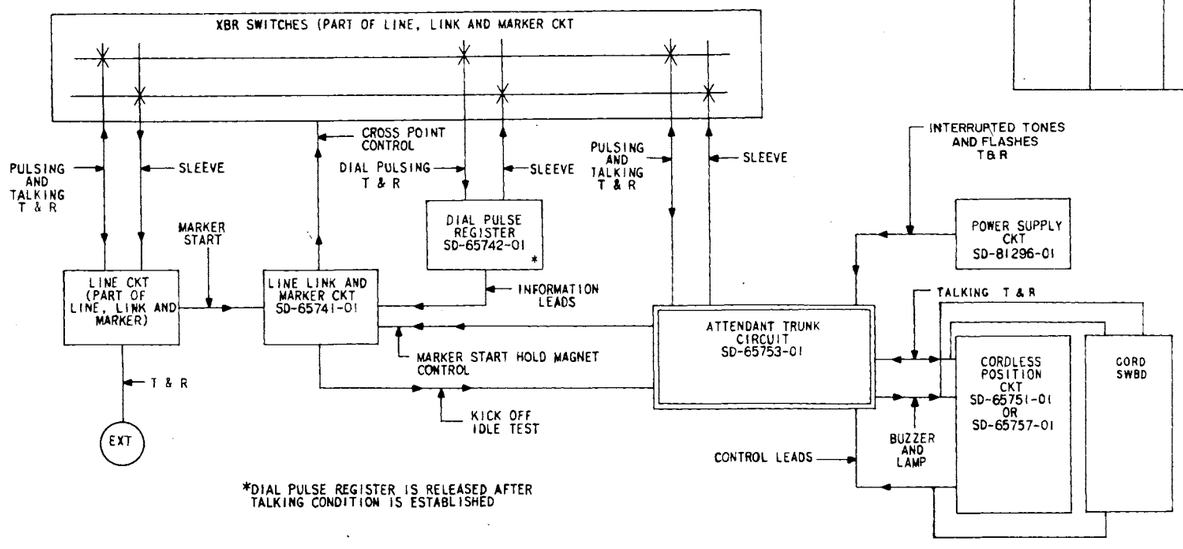
NETWORK VALUES		
NETWORK NO.	RESISTANCE IN OHMS	CAPACITANCE IN UF

104.

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	
8D	N OR Q	Q		N		C	
8D	R OR S	S		R		S	
8D	V OR T	V		T		V	
10D	M	NONE		M			
11B	J OR K	K		J		K	
12B	G OR H	H	102	G		H	
13D	E OR F	E	102	E & F			
14D	A	NONE	102	A			
15D	ZA	ZB		ZA		ZB	

INFORMATION NOTES:

301. BLOCK DIAGRAM

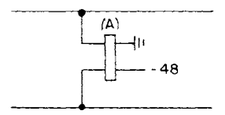


*DIAL PULSE REGISTER IS RELEASED AFTER TALKING CONDITION IS ESTABLISHED

SUPPORTING INFORMATION

CATEGORY	NO.
756A PBX CABLING DIAGRAM	SD-65746-01
EQUIPMENT DRAWINGS	ED-65670-01

TRANSMISSION TEST REQUIREMENTS (1000~ LOSS BETWEEN 600Ω LINES)



MAX. ALLOWABLE CKT LOSS (db)
0.2

ALLOWABLE INDIVIDUAL APPARATUS LOSSES (db)

APPARATUS	DESIG	CODE	MAX. LOSS	MIN. LOSS	REMARKS
RELAY	A	AJ26	0.2		

OPTION INDEX

APP OR WRG	LOCATION
Z	2B8,2C9,2D8,2F8
Y	2F7,2F8
X	2C4,2C5
W	2B4,2B5,2C4,2E3
V	2A8,2B8
T	2A8
S	2A8,2A9,2B9,2F5
R	2A8,2A9,2B9,2F4, 2F5,2H5
Q	2D5
N	2D5
M	2H8
K	2A7
J	2A7
H	2C4
G	2D4
F	SHEET 2
E	SHEET 2
A	2B8,2C8,2D8,2F8
ZA	2D4,2D5,2D8,2E3, 2F4,2H6
ZB	2D5,2H6

WORKING LIMITS

MAX EXT CKT LOOP RES FOR (A) RELAY	2370Ω
MIN INS RES	20,000Ω

DWG ISSUE	CD ISSUE	DATE ISSUED	APPROVED
1	1	5-3-56	E.D.G. F.G.S. RAT JHH
2B	2B	8-22-56	A.F.F. N.A.C. RAT JHH
3B	2B APP 1B	3-11-57	J.H. H.C.S. RAT JHH
4AR	2B APP 2AR	5-31-57	J.W.M. L.C.K. R.T.P. H.W.A.
5A	3A	10-3-57	V.S. F.G.S. R.T.P. H.W.A.
6B	3A APP 1B	2-24-58	J.A.F. M.S. W.V.S. H.W.A.
7D	4D	7-9-59	A.D.I. M.R. W.V.S. P.W.S.
8D	5D	4-13-60	R.T. M.R. W.V.S. P.W.S.
9B	5D APP 1B	8-3-60	V.S. J.T.S. R.C.S. P.W.S.
10D	6D	10-11-60	R.T. M.R. W.V.S. P.W.S.
11B	7B	8-1-61	V.O.G. J.J.S. L.L.G. R.D.W. T.E.B.
12B	7B APP 1B	2-6-62	L.L.K. W.V.H. W.V.S. H.F.H. J.D.
13D	7B APP 2D	1-7-64	R.G.B. D.H.C. J.M.D. R.A.V. A.R.M.
AM 14D	7B APP 3D	9-30-65	W.A.M. S.A.K. R.C.L. R.R.S. L.A.H. G.F.H.
15D	7B APP 4D	5-11-67	F.E.D. P.J.S. U.T. J.J.M. L.A.H. R.H.P.

SD-65753-01

PBX SYSTEMS

NO. 756A
ATTENDANT TRUNK CIRCUIT

AT&TCO STANDARD 15

(ATT TK) 2

SD-65753-01-1
4 SHEETS

BELL TELEPHONE LABORATORIES INCORPORATED — DWG SIZE 6S

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SD-65753-01-1

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FS 1
ATTENDANT TRUNK CIRCUIT

Contact Y-AC

LINE, LINK AND MARKER CIRCUIT

L9 L2 LI LO

0 1 2 3 4 5

BUSY VERIFICATION AUX TRK CKT
BY RS BY SL
SEE NOTE 1

BUSY VERIFICATION AUX TRK CKT
BV

BUSY VERIFICATION AUX TRK CKT
BV

BUSY VERIFICATION AUX TRK CKT
BV
ST ST HM HLD

MB & BY DISPL CKT
ATND TRK- -96
ATND TRK-

TO POWER SUPPLY CIRCUIT

CORDLESS POSITION CIRCUIT
BZI
RINGER
AUD SIG
L KEY
A JACK

POWER PLANT (INTERRUPTER)

JACK AND LAMPS AT 608A OR D CORD SWBD

556A SWITCHBOARD CD, TEL., DIAL BATTERY, BUZZER AND RINGING CKTS
NC -48

608A OR D AUX SIG, FA, BCO & MISC CKT.
A -48

P-200 S-200 P-1000 S-2700 P-450 S-57 2450 1050

SMTA IT (05-07) IT (00-02)

THM HOLD 900

U(0,5 OR 6) 960 THM-

TR (0,1) 700 THM-

TO PREC ATT TRK OR CDLS POS CKT

TO SUCC ATT TRK CKT OR CDLS POS CKT

SHEET NOTES:
1. OPTION F SHALL BE APPLIED ATTENDANT TRUNK NO. 2 ONLY.
2. JACK T AND LAMPS BL & TL ARE LOCATED IN CORD SWBD.

DRAWING ISSUE		
1	LDB, R.O.C.	W.S.
2B	A.F.F., N.C.	RAI
3B	J.H., F.G.S.	W.S.
4AR	J.W.H., L.G.K.	P.D.
5A	E.N., F.G.S.	W.S.
6B	J.A.S., M.S.	W.P.D.
7D	A.D.I., M.R.	T.E.B.
8D	R.T., M.R.	T.E.B.
9B	V.S., W.T.S.	T.E.B.
10D	R.T., M.R.	T.E.B.
11B	V.O.G., W.T.S., T.E.B.	N.Y.
12B	J.F.K., W.W.H., P.D.	HO
13D	R.G.B., D.H.C., A.R.M.	HO
14D	W.A.M., S.A.K., G.F.H.	HW
WORN DRAWING REPRODUCED WITHOUT CHANGES 10-14-66 F.E.D.		
15D	FED, PJS, RHP	

15

ATTENDANT TRUNK CIRCUIT (2)

SD- 65753-01-2

BELL TELEPHONE LABORATORIES INCORPORATED

SIZE 6S

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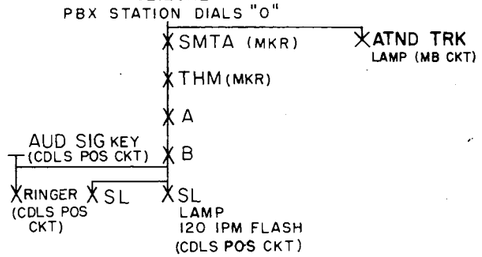
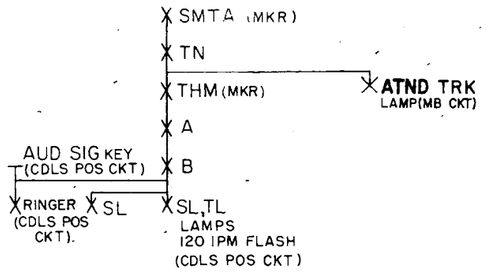
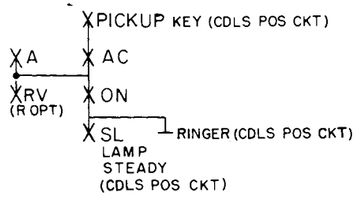
SC 1
SEIZURE
PBX STATION DIALS "0"



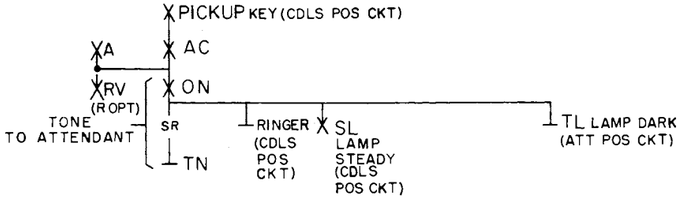
SC 2
SEIZURE
RESTRICTED STATION DIALS "9"
OR REGISTER TIMES OUT



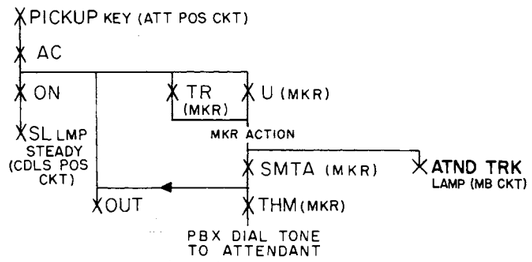
SC 3
ATTENDANT ANSWERS
(SEE SC 1)



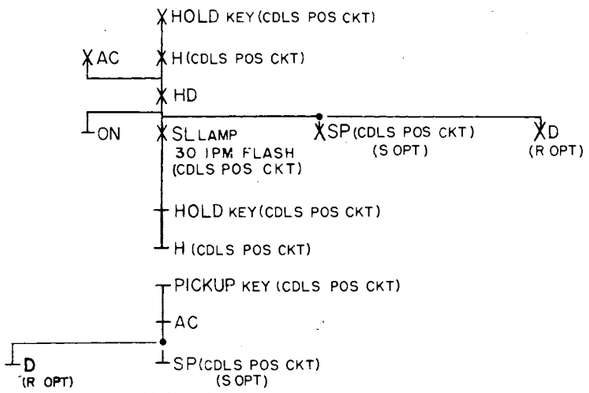
SC 4
ATTENDANT ANSWERS
(SEE SC 2)



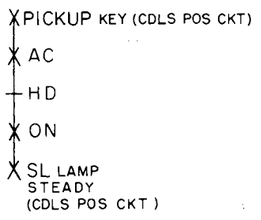
SC 5
ATTENDANT ORIGINATES CALL



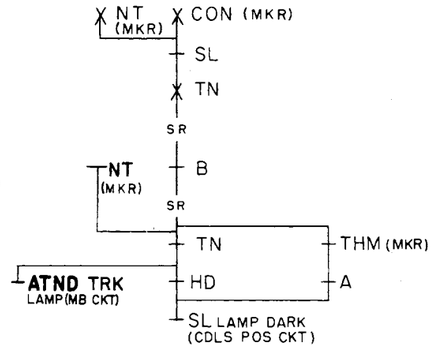
SC 6
ESTABLISHING HOLD CONDITION



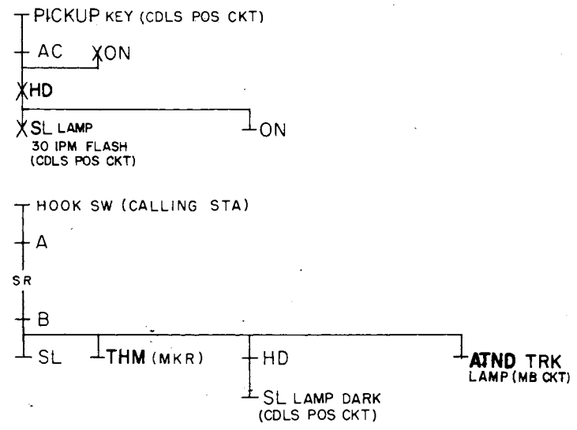
SC 7
ATTENDANT RE-ENTERS TRUNK
AFTER HOLD CONDITION WAS ESTABLISHED



SC 8
KICK OFF

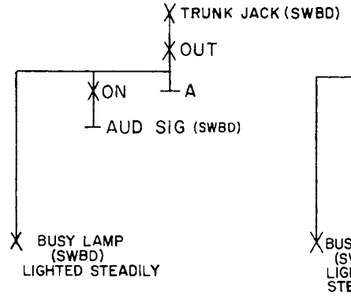


SC 9
ATTENDANT DISCONNECTS BEFORE CALLING STATION IS "ON HOOK"
AFTER ANSWERING AN INCOMING CALL - NO HOLD CONDITION ESTABLISHED

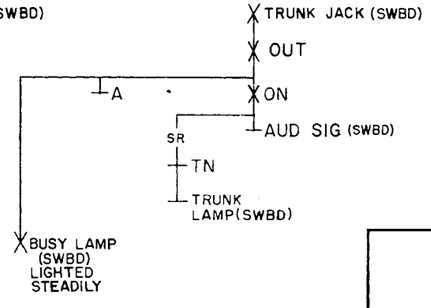


SC 10
CORD SWITCHBOARD OPERATION
NOTES: 1 SEIZURE OF TRUNK BY DIALING 0 SEE SC 1
2 SEIZURE OF TRUNK INTERCEPTING SEE SC 2

ATTENDANT ANSWERS (SEE SC 1)



ATTENDANT ANSWERS (SEE SC 2)



DRAWING ISSUE

1	LOG, FGS
2B	AFF, N.C.
3B	JJR, FGS, JWM, LGK
4AR	EN, FGS
5A	TAP, MS
6B	A.D., M.R.
7D	RT, M.R.
8D	Y.S.
9B	A.T., M.R.
10D	VOG, JJR, TEB
11B	JGL, WVH, P.D.
12B	RGB, DMC, ARM
13D	MAM, SAK, GFH
14D	FED, PJS, RHP
15D	

SD-65753-01-3

ATTENDANT TRUNK CIRCUIT (2)

BELL TELEPHONE LABORATORIES INCORPORATED — SIZE B — 65

SD-65753-01-3

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CIRCUIT REQUIREMENTS

NO. 756A ATTENDANT TRUNK CIRCUIT (ATT TK)

APPARATUS				MECH REQT			CIRCUIT PREPARATION				TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT					REMARKS
DESIG	CODE	OPTION	FIG	BSP FIG	CONT PRESS	ARM TRVL	BLOCK OR INSULATE	TEST CLIP DATA CONN BAT.	TEST CLIP DATA CONN GRD				TEST WDG	TEST FOR	AFTER SOAK MA.	TEST MA	READJ MA.	
RELAYS																		
A	AJ26	S	1	558				1L(A)	2U(A)	M	3		P/S	C		16.5	15.5	
								1L(A)	2U(A)	M	3		P/S	R		7.1	6.8	
A	AJ57	R	1	237				1L(A)	2U(A)	M			P/S	O		20	19	
								1L(A)	2U(A)	M			P/S	R		2.6	2.7	
AC	AG32		1	224B					1U(AC)	GRD	2		P	C	FS	18.5	17.5	
									1U(AC)	GRD	2		P	NC	FS	8.7	9.2	
									1U(AC)	GRD	2		P	H	FS	3.7	3.5	
									1U(AC)	GRD	2		P	R	FS	1.7	2	
B	AG7		1	241B					1U(B)	GRD	1		P	C	36	17.5	16.5	
									1U(B)	GRD	1		P	H	36	3.2	3	
									1U(B)	GRD	1		P	R	36	1.6	1.9	
D	1/2 AK4	R	1	202					1U(D)	GRD				O		11.9	11.3	MOUNTED WITH (RV)
HD	AJ5		1	220			12B(AC)		1U(HD)	GRD			P	O		13.2	12.6	
ON	AJ27		1	213			(HD)O		1U(ON)	GRD			P	O		14.9	14.2	
									1U(ON)	GRD			P	NO		8.2	8.6	
OUT	AF9		1	213			(B)O(ON)O		1U(OUT)	GRD			P	O		8.6	8.2	
RV	1/2 AK4	R	1	202					1L(RV)	GRD				O		11.9	11.3	MOUNTED WITH (D)
SL	AF138		1	538				1L(SL)		BAT.			P	O		31.5	30.	
								1L(SL)		BAT.			P	R		11.9	12.5	
TN	AG21		1	282B					1U(TN)	GRD	1,4		P	O	100	48.5	46.	REQ APPLY TO PRIMARY
									1U(TN)	GRD	1,4		P	H	100	6	5.7	WITH SEC. WDG. SHORT
									1U(TN)	GRD	1,4		P	R	100	3.9	4.6	CIRCUITED

DRAWING ISSUE

1	EDG FGS
2B	AFF N.C.
3B	JJH FGS JWM
4AR	
5A	VS FGS
6B	TAT MS
7B	ADJ MR
8D	AT MR
9B	VS WTS
10D	AT MR
11B	VDG JJH TEB
12B	SFA WH PD
13D	RGB
14D	WAM SAK GFH
15D	FED PJS RHP

TEST NOTES:

1. BLOCK ASSOCIATED HOLD MAGNET NON OPERATED.
2. BLOCK ASSOCIATED HOLD MAGNET OPERATED.
3. ARMATURE BACK TENSION MINIMUM 20 GRAMS READJUST, 15 GRAMS TEST.
4. ARMATURE BACK TENSION MAXIMUM 80 GRAMS READJUST, 85 GRAMS TEST.

(PAGES/ PAGE

ATTENDANT TRUNK CIRCUIT	SD-65753-01-4
BELL TELEPHONE LABORATORIES, INC	PRINTED IN U.S.A.

E-74258-A (5-83)

APP FIG 1

RELAY

DESIG	A		A		AC		B		D		RV		HD		ON		OUT		DESIG
CODE	AJ26		AJ57		AG32		AG7		AK4				AJ5		AJ27		AF9		CODE
OPTION	S		R						R										OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12					EMB	2E3	M	2C3	M	2F4			EBM	2F2	EM	a	EM	2D3	12
11					M	2G2	M	2D4	EBM				EBM	2D5					11
10	B		M	②	EBM	2H2	EBM	2C2	EBM				EBM	2G9	M	2F3	M	2B2	10
9							M	2D2	EMB				EBM	2B3	B	2D4	B	2E3	9
8	M	2G4	EBM	2G4	EBM	2D4	EBM	2E2	EMB				EBM	2B7	EBM	2B4	EBM	2A7	8
7					B	2H8							EBM	2F8	B	2F3	B	2G2	7
6	BM	2G7	EBM	2G7	EMB	2H5	EBM	2F2					EBM	2E2	EMB	2C2	EMB	2B7	6
5							M	2F3			EMB	2A8	EBM	2E3	B	2D8	B		5
4	M	2D8	M	2D8	EBM	2B7	EBM	2D4			EMB	2B8	EBM	2G3	EBM	2G8	EBM	2G8	4
3					M	2F5	M	2C4			EBM		EBM	2G5					3
2					EBM	2A7	M	2B7			EBM		EBM	2B2	M	2E3	M	2E2	2
1					M	2C2	M	2A7			M	2H5	EBM	2F5					1
COIL		2A9		2A9		2E9		2G4		2G5		2H5		2E4		2B2		2C3	COIL
			(ZA)	2D5												(F) 2H4			
			(ZB)	2H6															

RELAY

DESIG	SL		TN					
CODE	AF138		AF138					
OPTION								
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC
12								
11								
10			M	2F3				
9								
8			EMB	2G5				
7								
6	B	2G2	EMB	2E2				
5								
4			M	2B4				
3								
2			M	2F8				
1								
COIL		2D2		2G4				

CAPACITOR

DESIG	LOC	CODE
RT	2C4	441U
TN	2B4	441K

DIODE

DESIG	LOC	CODE
(J) C	2A7	KS-15724,L2

RESISTOR

DESIG	LOC	CODE
[1] SL1	2F9	198A
[1] SL2		
SL3	2F9	198A
[1] TL1	2F8	198A
[1] TL2		

② APP FIG. 2

JACK

DESIG	LOC	CODE
T	2C9	285A

LAMP

DESIG	LOC	CODE
BL	2F8	K2(RED)
TL	2F8	K2(WHITE)

DRAWING ISSUE

1	EDG FGS
2B	AFF N.C.
3B	JJH FGS JWM
4AR	
5A	VS FGS
6B	TAT MS
7B	ADJ MR
8D	AT MR
9B	VS WTS
10D	AT MR
11B	VDG JJH TEB
12B	SFA WH PD
13D	RGB DHC ARM
14D	WAM SAK GFH
15D	FED PJS RHP

ATTENDANT TRUNK CIRCUIT	②	SD-65753-01-4
BELL TELEPHONE LABORATORIES, INC	DWG SIZE 6S	PRINTED IN U.S.A.

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SHEET INDEX

SHEET NO.	CONTENTS
1	SHEET INDEX SUPPORTING INFO WORKING LIMITS CIRCUIT NOTES OPTION INDEX
2	FS 1 BUSY TONE TRUNK APP FIG. 1
3	CKT REQ TABLE

CIRCUIT NOTES:

101.

DESIG	FUSE AMP	POTENTIAL	ONE PER	TERM. DESIG
BT	1-1/3	-48V SIG	PBX UNIT	
BT		GRD		

BATTERY SYMBOL	VOLTAGE RANGE
-48	45-52V

102.

FEATURE OR OPTION	PROVIDE		
	APP FIG.	APP OR WIRING	QUANTITY
BUSY TONE TRUNK	1		1 PER PBX

103.

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	A8M	MD	
3D	Y OR Z	Z		Y		Z	
5B	WORX	X		W		X	

WORKING LIMITS

MAX. EXT CKT LOOP RES	2370
MIN INS RES	20,000

SUPPORTING INFORMATION

CATEGORY	NO.
NO. 756A PBX CABLING DIAGRAM	SD-65746-01
EQUIPMENT DRAWING	ED-65869-01

OPTION INDEX

APP OR WIRING	LOCATION
Z	2E4, 2H4
Y	2E4
X	2F3, 2G3
W	APP FIG. 1

DWG ISSUE	CD ISSUE	DATE ISSUED	APPROVED
1	1	4/30/56	E.D.G. F.G.S. R.A.P. H.N.A.
2B	1 APP 1B	3-4-58	C.M. R.M. HWS H.N.A.
3D	2D	1-26-59	K.C.D. S.F. WVS PWS
4B	2D APP 1B	8-5-60	V.S. M.R. AEG PWS
5D	3D	5-24-61	V.S. JJTS NWS RDW TEB
6D	3D APP ID	5-16-67	CED FJS UT JJM LAH RHP

W.S. JJM P.D. T.E.B. RT HD HW

SD-65754-01-1

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SD-65754-01

PBX SYSTEMS
NO. 756A
BUSY TONE TRUNK CIRCUIT
(2) (BT TRK)

AT&TCO STANDARD 6

SD-65754-01-1
3 SHEETS

BELL TELEPHONE LABORATORIES INCORPORATED

DWG SIZE 6S

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FS I
BUSY TONE TRUNK

APP FIG. I

RELAY

DESIG	A		RA						DESIG
CODE	AJ26		AG35						CODE
OPTION			W						OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12			M	2F3					12
11									11
10	B		M	2H3					10
9									9
8	M	a	B						8
7									7
6	BM	2G3	B						6
5									5
4	M	2H4	M						4
3									3
2			M	2B4					2
1									1
COIL		2F5		2B4					COIL

a (X)2F3 (W)2B5

CAPACITOR

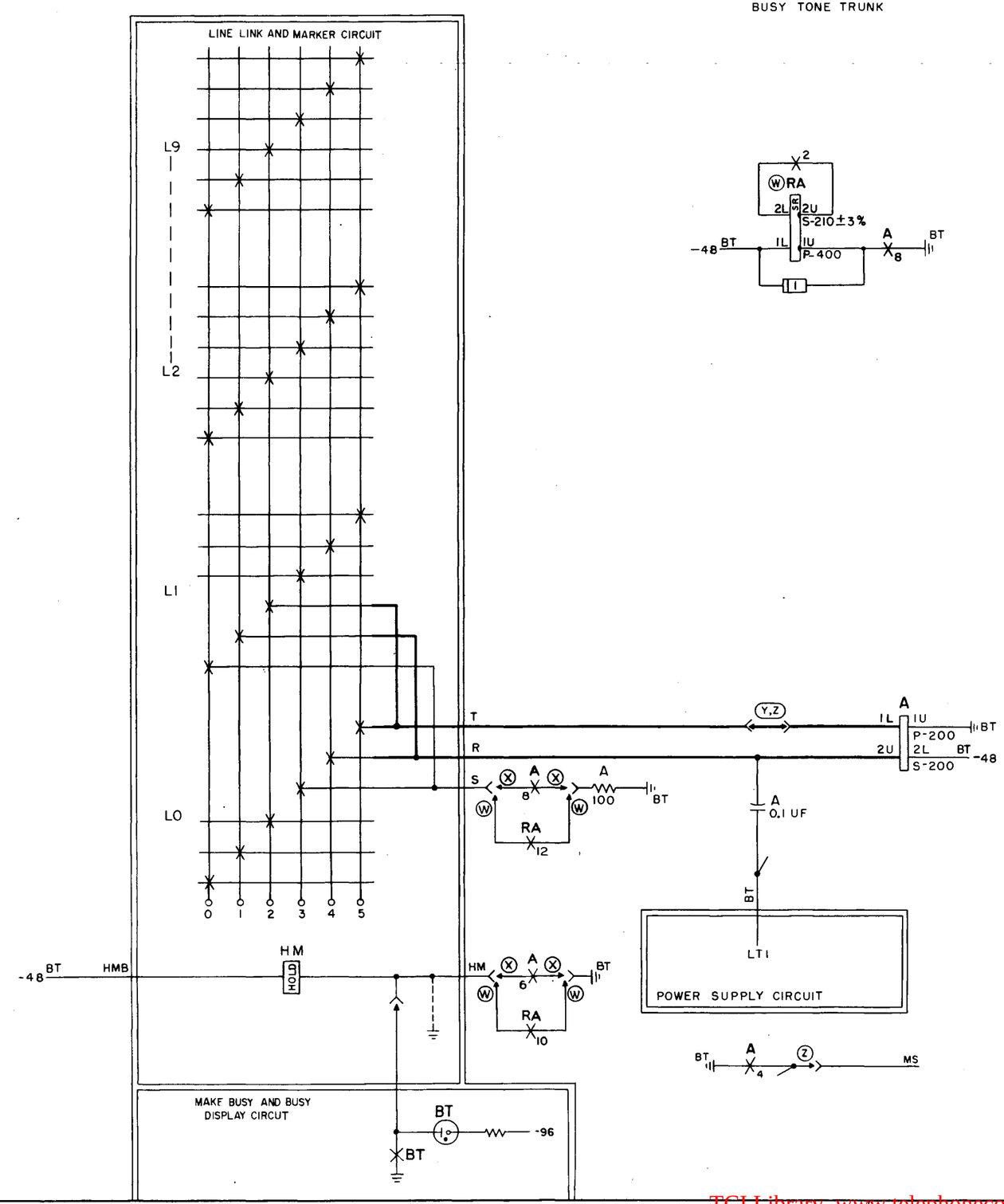
DESIG	LOC	CODE
A	2F4	441K

NETWORK

DESIG	LOC	CODE
(W) RA	2C4	185A

RESISTOR

DESIG	LOC	CODE
A	2F3	18BW



DRAWING ISSUE	
1	EDG RGS
2B	CM GJW GFR SP
3D	VS MR
4B	VS JJH TEB
5D	CED PJS RHF
6D	

BUSY TONE TRUNK CIRCUIT

BELL TELEPHONE LABORATORIES INCORPORATED

DWG SIZE 6S

SD-65754-01-2

6

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CIRCUIT REQUIREMENTS

NO. 756A PBX BUSY TONE TRUNK (BT TRK)

APPARATUS					MECH REQT			CIRCUIT PREPARATION			TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT					REMARKS
DESIG	CODE	OPTION	FIG.		BSP FIG.	CONT PRESS	ARM. TRVL	BLOCK OR INSULATE	TEST CLIP DATA				TEST WDG	TEST FOR	AFTER SOAK	TEST	READJ	
									CONN BAT.	CONN GRD					MA.	MA.	MA.	
RELAYS																		
A	AJ26		1		55B				1L(A)	2U(A)	M		P/S	0		16.5	15.5	
									1L(A)	2U(A)	M		P/S	R		7.1	6.8	
RA	AG35	W	1		67B					1U(RA)	GRD		P	0	FS	31.5	30	SHORT CKT SEC WDG WHEN
										1U(RA)	GRD		P	H	FS	4.7	4.4	TESTING (RA) NOT WIRED
										1U(RA)	GRD		P	R	FS	3.3	3.6	IN CKT

DRAWING ISSUE	
1	F.D.G. F.G.S. W.S.
2B	C.M. G.W. J.J.M.
3D	R.C.H.
4B	V.S. M.R. T.E.B.
5D	V.S. T.E.B.
6D	C.E.D. P.J.S. R.H.F.

(PAGES) PAGE 1

BUSY TONE TRUNK CIRCUIT

BELL TELEPHONE LABORATORIES, INC

SD-65754-01-3

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SD-65754-01-3

E-7429-A (5-66)

DRAWING ISSUE

1 F.D.G. F.G.S. W.S.

2B C.M. G.W. J.J.M.

3D R.C.H.

4B V.S. M.R. T.E.B.

5D V.S. T.E.B.

6D C.E.D. P.J.S. R.H.F.

6

BUSY TONE TRUNK CIRCUIT

BELL TELEPHONE LABORATORIES, INC

SD-65754-01-3

PRINTED IN U.S.A.

DWG. SIZE C5

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CIRCUIT REQUIREMENTS TABLE	F1	1	1	1	1	1	6	F1
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SUPPORTING INFORMATION

CATEGORY	NO.
756A PBX CABLING DRAWING EQUIPMENT INFORMATION	SD-65746-01 J58829T-( )

DWG ISSUE	CD ISSUE	DATE ISSUED	DRAWN	APPD
1	1	6-19-59	KOG FGS	REC PWS
2D	2D	10-7-59	KAH PWS	RJG PWS
3D	3D	3-14-60	MSC DTP	WVS PWS
4B	3D APP 1B	3-9-61	RJB JF	WVS POW PD
5B	3D APP 2B	8-28-62	DN SJF	RHF HFH PD
6B	4B	9-2-66	JJR SAK RCL	HED GFH LAH

SHEET INDEX NOTES

1. WHEN CHANGES ARE MADE IN THIS DRAWING, ONLY THOSE SHEETS AFFECTED WILL BE REISSUED.
2. 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.
3. THE ISSUE NUMBER ASSIGNED TO A CHANGED OR NEW SHEET WILL BE THE SAME ISSUE NUMBER AS THAT OF THE SHEET INDEX.
4. SHEETS THAT ARE NOT CHANGED WILL RETAIN THEIR EXISTING ISSUE NUMBER.
5. THE LAST ISSUE NUMBER OF THE SHEET INDEX IS RECOGNIZED AS THE LATEST ISSUE NUMBER OF THE DRAWING AS A WHOLE.

SD-65756-01

PBX SYSTEMS
NO. 756A
TIE TRUNK CIRCUIT
OUTGOING MANUAL AND DIAL SELECTED
WITH 2 SECOND RINGING SIGNAL
INCOMING RINGDOWN
(2)
(T TRK OG MAN. & D SEL INC RD)

AT&TCO STANDARD

SD-65756-01-A1
12 SHEETS

BELL TELEPHONE LABORATORIES, INC
DWG SIZE 6S
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SD-65756-01-A1

E-7595 (9-54)

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APPARATUS INDEX

DESIG	LOCATION FS	APP FIG.	EQPT
RELAYS			
AC	1B6	1	
ACA	1A7	1	
AO	2D6	1	
BY	3A2	1	
DR	1F3	1	
FF	1A2	1	
HD	2G5	1	
HM	2E3	1	
LO	1G6	1	
MC	2G4	1	
P	1E3,1D3	1	
PC	3E2	1	
R	1F7	1	
RI	2C8	1	
RS	3C2	1	
RT	1G2	1	
S	1D5	1	
SI	1C1	1	
SL	2A3	1	
SR	1C1	1	
T	1A8	1	
TI	1B8	1	
TC	1G4	1	
TT	3D2	1	

DESIG	LOCATION FS	APP FIG.	EQPT

PADS			
PR	1D8	1	

RESISTORS			
H	1E6	1	
ITT	1E8	1	
IL	1C5	1	
L	3D8	1	
PD	2A4	1	
S	3C8	1	
SL	2B4	1	
T	3B8	1	
TL	1E7	1	
TLI	1D7	1	

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

THERMISTORS			
RI	2C8	1	
R2	1D7	1	
R3	1F7	1	

TRANSFORMERS			
A	1E6	1	

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

LEAD INDEX

DESIG	FS LOC
CODE RINGING SUBSET	
LI	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
L	3D8
LR	1C4
LT	1C4
NT	3F2
SLI	3C8
SP	2G8
SPI	1C5
T	3G8
TLI	3B8
TR	1C5
TT	1C4
U	3G8

2ND CORDLESS POSITION CIRCUIT	
SL2	3C8
TL2	3B8

DISTANT PBX	
R	1D9
T	1D9

DESIG	FS LOC
MARKER CIRCUIT	
BAT	2F2
BY(E,O)	3B1
CH	2A2
FF(E,O)	1A1
IT(93,94,98,99)	2F2
M(E,O)	2E2
NT	3F1
R	1F1
RLS(E,O)	2G2
RS(E,O)	3C1
RT(E,O)	1H2
S	2B2
ST(3,4,8,9)	2F2
T	1D1
TR(O,1)	3G4
TT(E,O)	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

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, 1E3
F	1F2, 1G2

DRAWING ISSUE	
1	HC
3D	
4B	
5B	
6B	

TIE TRUNK CIRCUIT (2)

SD-65756-01-A2

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65

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FS I

TIP AND RING CONTROL
(SEE NOTE "A" FOR MULTIPLE DESIGNATIONS)

MARKER CKT

CORDLESS POSITION CKT

TO SUBSET FOR CODE RINGING TRUNK AT ATTENDANT'S LOCATION

TO DISTANT PBX

POWER SUPPLY

MARKER CKT

SHEET NOTES:

A. ALL MULTIPLE POINTS MARKED * INDICATE ALL EVEN TRUNKS. MULTIPLED SEPARATELY FROM ALL ODD TRUNKS.

DRAWING ISSUE

1	
2D	
4B	
5B	

TIE TRUNK CIRCUIT (2)

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SD-65756-01-BI

SD-65756-01-BI

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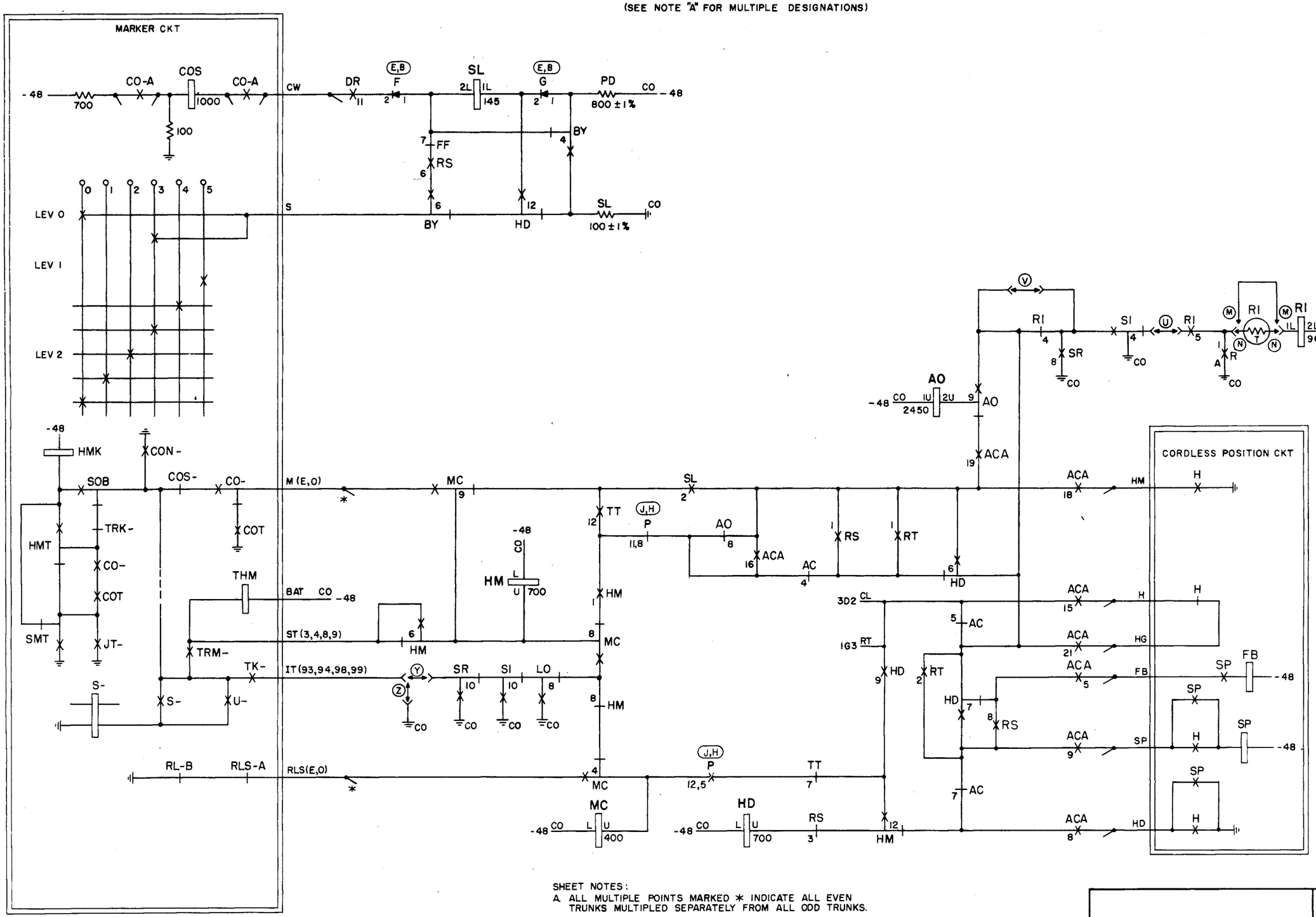
FS 2

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



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

DRAWING ISSUE

1	K&S
5B	K&S
6B	JNR KAR RCH

TIE TRUNK CIRCUIT (2)

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SD-65756-01-B2

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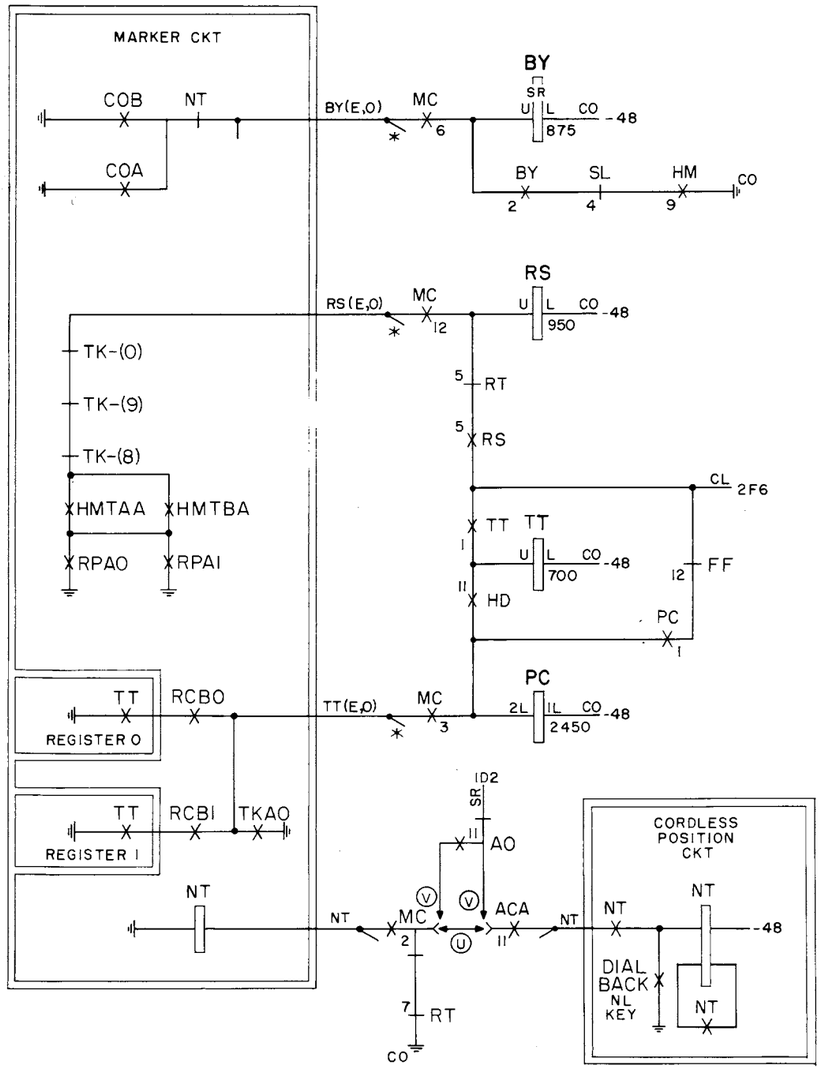
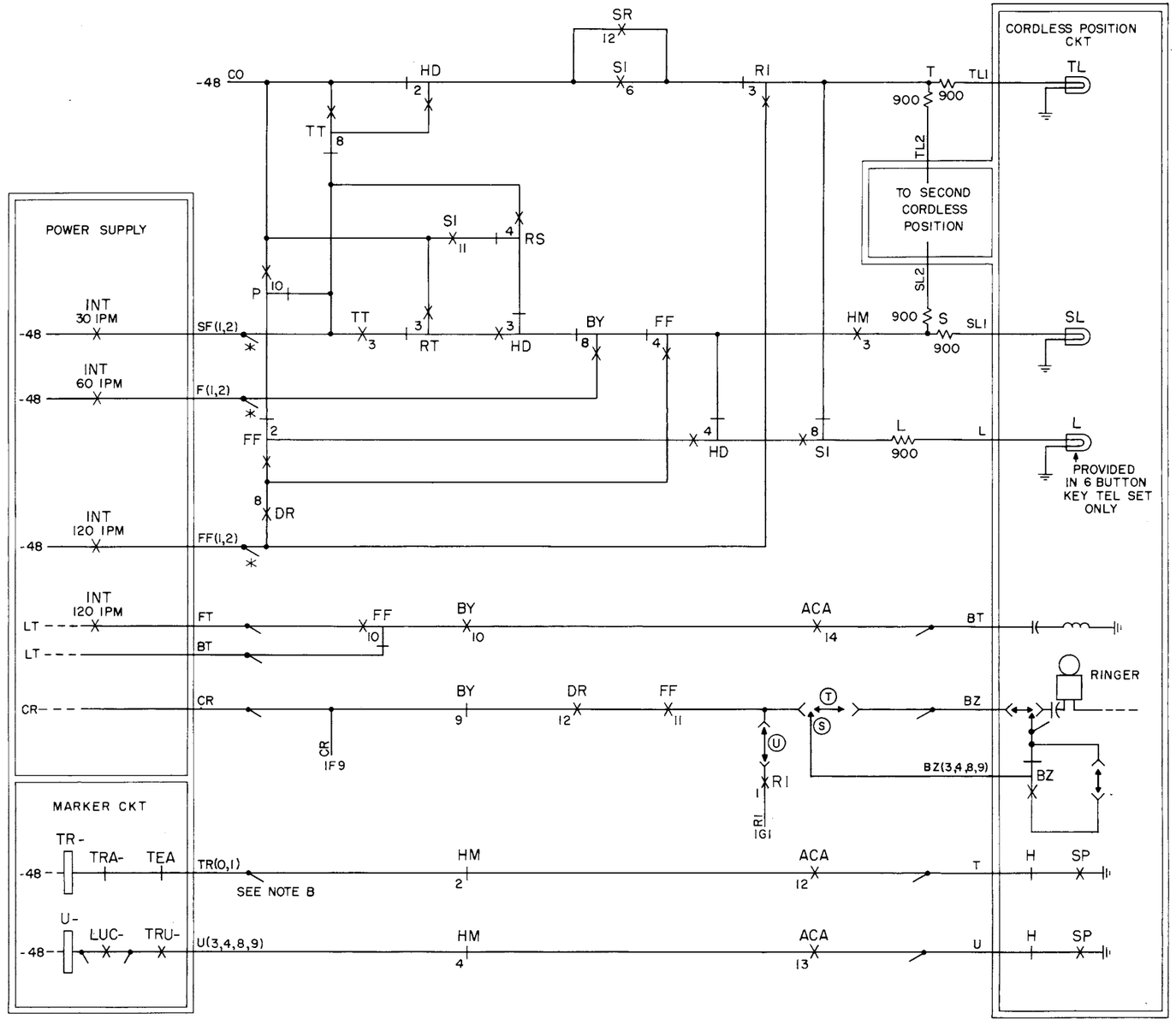
DRAWING ISSUE	
1	KAG KAG
30	MSC 077

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 MULTIPLED SEPARATELY FROM ALL ODD TRUNKS.

B. MULTIPLE TRUNKS 3 AND 4 ON LEAD "TRO" AND TRUNKS 8 AND 9 INCLUSIVE ON LEAD "TRI."

NO. 756A
TIE TRUNK CIRCUIT

SD-65756-01-B3

BELL TELEPHONE LABORATORIES INCORPORATED

AWG SIZE 6S

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SD-65756-01-B3

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APP FIG. 1

RELAY

DESIG	AC		AO		PC		BY		DR		RI		FF		HD		HM		LO		SL				DESIG
CODE	AF139		AK4				AG33		AK8				AJ15		AJ15		AF100		AK6						CODE
OPTION																									OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12			M	1A7			EM	1F3	M	3F6			EBM	3D2	EBM	2B3	EMB	2G6	M	1G6					12
11			EBM	3E2					M	2A2			EBM	3F7	EBM	3D1	M								11
10	M		EBM				M	3E6	EBM	1F2			EBM	3E5	EBM	1E4	EBM	1A7	B	1A8					10
9	B	1F4	EMB	2D6			B	3F6	EBM				EBM	1C2	EBM	2F6	M	3B2							9
8	EBM	1B1	EMB	2E5			EBM	3C6	EM	3D5			EMB	1A8	EMB	1E5	EBM	2F4	BM	2F3					8
7	B	2G6					B	1D1					EBM	2B3	EBM	2G6									7
6	EMB	1A6					EMB	2B2					EMB	1E4	EMB	2E6	EMB	2F2							6
5	B	2F6			EMB	1F6	B	1F1			EM	2C8	EMB	1F2	EMB	1E5									5
4	EBM	2E5			EMB	1E8	EBM	2B4			B	2C7	EBM	3C7	EBM	3D7	EBM	3G6			B	3B2			4
3	B	1D4			EBM						EBM	3B7	EBM	1F5	EBM	3C6	M	3C8							3
2					EBM	1D8	M	3B2			EBM	1G5	EBM	3D5	EBM	3B6	EBM	3G6			M	2E4			2
1					M	3E2	M	1B1			M	3F7	EBM	1B2	EBM	1F4	M	2F4							1
COIL		1B6		2D6		3E2		3A2		1F3		2C8		1A2		2G5		2E3		1G6		2A3			COIL

RELAY

DESIG	MC		P		P		TC		RS		RT		S		S1		SR		T		T1		TT		DESIG
CODE	AJ56		AJ28		AK 7				AJ3		AJ58		AJ26		AG34		AG34		AG24		AG24		AJ12		CODE
OPTION			J		H		H																		OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	EM	3C1	EM		EBM	2G4			EMB	1E5	EM	1G2			M	a	M	3A7					EBM	2E4	12
11	BM	1G2	M		EBM	2E4			BM	1E4	B	1E5			M	3C6	M	1G5					EBM	1E4	11
10	M	1A2	EBM	3C5	EBM	3C5			EBM	1D1	M	1F3	B	1F5	EBM	2F3	EBM	2F3	M	1B2	M	1G5	EBM		10
9	PMEB	2E3	M	1G2	EM	1G2			M	1F3	BM	1G5											EBM	1E5	9
8	EMB	2F4	EBM	2E4	EM	1E5			EBM	2F7			M	1A8	EBM	3D7	EBM	2D7	BM		BM	1G5	EBM	3B5	8
7	B	1G2									B	3F1											EBM	2G5	7
6	M	3B1	EMB						EBM	2B3			BM	1B2	EBM	3B7	EBM	1D9	BM		BM	1C2	EBM		6
5	B	1E3	M	2G4			EM	1G5	M	3C1	B	3C1											EBM	1E6	5
4	PMEB	2G4	EBM				EM	1C2	EBM	3C6	M	1B2	M	1G6	EBM	2C7	EBM	1F9	M	1B8	M	a	EBM	1E5	4
3	M	3E1	M				EBM	1B2	BM	2G5	BM	3G6											EBM	3C5	3
2	PBEM	3F1	EBM	1E5			EBM		EBM	1F2	M	2F6			EBM	1F6	EBM	1C2					EBM	1G3	2
1	M		M				EBM	1A8	BM	2E5	M	2E6			M	1B2	M	1F8					EBM	3D1	1
COIL		2G4		1E3		1D3		1G5		3C2		1G2		1D5		1C1		1C1		1A8		1B8		3D2	COIL

S1: (J) 1A8; a (H) 1A8

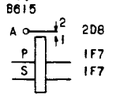
T1: (J) 1C2; a (H) 1B2

RELAY

DESIG	ACA			
CODE	AJ202			
OPTION				
	CONT ARR	LOC	CONT ARR	LOC
24	M			
23	M			
22	M			
21	M	2F7		
20	M			
19	M	2D6		
18	M	2E7		
17	M	1A7		
16	M	2E5		
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		

RELAY

R
8615



CAPACITOR

DESIG	LOC	CODE
A	1E8	KS-13614,L6,0.05 UF
BR	1F7	KS-13614,L6,0.05 UF
D	1E6	437QA
FB	1E2	KS-13614,L6,0.05 UF
L	1E6	437QA
(Q) RV	1E3	444A
(R) RV	1E3	KS-13486,60 UF

DIODE

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

DIODE

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

PAD

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

RESISTOR

DESIG	LOC	CODE
H	1E5	KS-8512,L3A 1000
ITT	1E6	KS-13492,L1,200
IL	1C5	KS-13492,L1,820
L	3D8	18FB
PD	2A4	18GF
S	3C8	19BA
SL	2B4	18BW
T	3B8	19BA
TL	1E7	KS-13492,L1,1200
TL1	1D7	KS-13492,L1,3900

THERMISTOR

DESIG	LOC	CODE
(N) R1	2C8	88
(M) R2	1D7	8A
(M) R3	1F7	8A

TRANSFORMER

DESIG	LOC	CODE
A	1E6	202A REP COIL

DRAWING ISSUE

1	HC NM WRH PNS	T.E.B. 1/28
2D		
4B	RJB PWB PD	
5B	DM SJF PD	HO
6B	JJR SAK GFH	JW EMRE

TIE TRUNK CIRCUIT (2)

SD-65756-01-CI

BELL TELEPHONE LABORATORIES INCORPORATED

SIZE 6S

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CIRCUIT NOTES:

101.

DESIG	FUSE AMP	POTENTIAL	ONE PER	TERM. DESIG
CO	1-1/3	-48V TALK	APP FIG. 1	
CC		GROUND		

BATTERY SYMBOL	VOLTAGE RANGE
-48	45-52V

102.

FEATURE OR OPTION			PROVIDE APP FIGS.	PROVIDE APP OR WIR	PROVIDE QUANTITY
TIE TRUNK			1		ONE PER TRUNK
INCOMING RINGING	DIRECT, THRU REPEATING COIL, OR THRU BY-PASSING CAPACITORS	LOOP 2000 OHMS OR MORE		X	
		LOOP UNDER 2000 OHMS			
	THRU BLOCKING CAPACITORS	LOOP 1500 OHMS OR MORE		W	
		LOOP UNDER 1500 OHMS		X	
CODE RINGING		REQUIRED		V	
		NOT REQUIRED		U	
TRUNK EQUIPPED AND ASSIGNED AS NON-CODE RINGING TRUNK				Y	
TRUNK EQUIPPED AND UNASSIGNED				Z	

103.

NETWORK VALUES		
NETWORK	RES IN OHMS	CAPACITANCE IN UF

104.

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

IC5. PROVIDE 89 TYPE RESISTORS IN PAD (PR) AS FOLLOWS:

LINE IMPEDANCE AT 1000~	LOSS (db)	CODE	WINDING RESISTANCE 1-2 OR 3-4	WINDING RESISTANCE 5-6
800 OR LESS	3	89N	123.8	1454
	4	89TN	174.8	1030
	5	89AA	233.4	771
	6	89AE	299	602.2
801 TO 1250	3	89 TYPE PER D-164335	239	2626

EQUIPMENT NOTES:

201. WHEN V OPTION IS NOT PROVIDED LEADS L1 AND L2 SHALL BE DISCONNECTED AT THE HOUSE BOX.

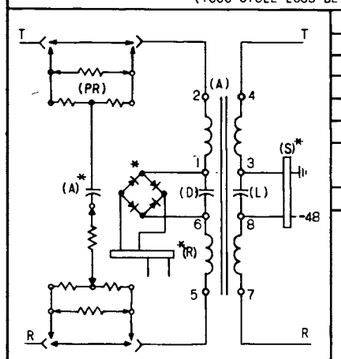
202. WHEN THE PBX USES A 1A2 KEY TELEPHONE SYSTEM EQUIPPED WITH 400B KEY TELEPHONE UNITS, THE TELEPHONE COMPANY SHALL FURNISH THREE 446F DIODES AND THE INSTALLER SHALL ADD OPTION G.

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.

TRANSMISSION TEST REQUIREMENTS
(1000 CYCLE LOSS BETWEEN 60Cn LINES)



MAX ALLOWABLE CIRCUIT LOSS (db)		
IC PAD AND	REP COIL	
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 LOSSES (db)

APPARATUS	DESIG	CODE	MAX LOSS	MIN LOSS	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.

WORKING LIMITS

SUPERVISION AND TRIPPING

	(S) RELAY	(RT) RELAY SILENT INTERVAL	(RT) RELAY RINGING INTERVAL
MAX EXT CKT LOOP RES	2000	1400	2,000
MIN INS RES	10,000	10,000	10,000

RINGING

	RINGING SOURCE VOLTAGE 95 VOLTS	RINGING SOURCE VOLTAGE 75 VOLTS
MAX EXT CKT LOOP RES WHEN: CONNECTING CIRCUIT RINGS DIRECT, THRU REPEATING COIL, OR THRU BY-PASSING CAPACITORS	8300	7500
CONNECTING CIRCUIT RINGS THRU BLOCKING CAPACITORS	13,000	10,000

DRAWING ISSUE	
1	EDG FKS
2D	RRR PWS
3D	RJS DJP
4B	RJB PD
5B	DJP SJR PD
6B	LJR SAK GFH

TIE TRUNK CIRCUIT (2)

BELL TELEPHONE LABORATORIES INCORPORATED

SHEET SIZE 6S

6

SD-65756-01-D1

SD-65756-01-D

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SC 1
TRUNK SEIZED FOR INCOMING CALL

RING SIGNAL FROM DISTANT OFFICE
- R
- RI
- LO
  - RINGER (CDLS POS)
  - TL (CDLS POS) LAMP 120 IPM
  - L (CDLS POS) LAMP 120 IPM
- R

SC 2
ATTENDANT ANSWERS INCOMING CALL

- PICK UP KEY (CDLS POS)
- ACA
- S — AC
- SI
- RI
  - RINGER (CDLS POS)
  - TL (CDLS POS) LAMP STEADY
  - L (CDLS POS) LAMP STEADY

SC 3
ATTENDANT STEERS INWARD FOR PBX DIAL TONE

- HOLD KEY (CDLS POS)
- H (CDLS POS)
- HD
  - SP (CDLS POS)
  - TL (CDLS POS) LAMP 30 IPM
  - L (CDLS POS) LAMP 30 IPM
  - AO
- HOLD KEY (CDLS POS)
- H (CDLS POS)

MKR ACTION RESULTING IN CONNECTION OF TRUNK TO DP REGISTER
- SL
- HM

DIAL TONE TO ATTENDANT

SC 4
COMPLETING INCOMING CALL TO A STATION LINE

DIALING COMPLETED

REG ACTION
- P
- MC

MKR ACTION — P — LINE BUSY – ANOTHER TRK ALREADY CAMPED ON

LINE IDLE

LINE BUSY – NO OTHER TRK CAMPED ON
- RS
  - FB (CDLS POS)
    - SL (CDLS POS) LAMP 30 IPM
    - TL (CDLS POS) LAMP STEADY
  - HD
  - SL
  - MKR RELEASES
  - MC
- RINGING CONNECTED TO CALLED LINE
- LINE ANSWERS
- RT
- RS
  - L (CDLS POS) LAMP STEADY
  - SL (CDLS POS) LAMP STEADY
- RINGING DISCONNECTED FROM CALLED LINE

- BY
- DR
  - SL
  - SL (CDLS POS) LAMP 60 IPM
- MKR RELEASES
- MC
- CALLED LINE BECOMES IDLE
- SL
- BY
- DR
  - SL
  - SL (CDLS POS) LAMP 30 IPM
  - L (CDLS POS) LAMP 30 IPM
- RINGING CONNECTED TO CALLED LINE
- LINE ANSWERS
- RT
- RS
  - SL (CDLS POS) LAMP STEADY
  - L (CDLS POS) LAMP STEADY
- RINGING DISCONNECTED FROM CALLED LINE

BUSY TONE TO ATTENDANT

BUSY TONE TO ATTENDANT REMOVED

- RS
  - HD
  - TL (CDLS POS) LAMP STEADY
- BY
  - DR
    - SL
    - L (CDLS POS) LAMP 60 IPM

- RS
  - HD
  - TL (CDLS POS) LAMP STEADY
- FF
  - SL (CDLS POS) LAMP 120 IPM
  - MKR RELEASES
  - MC
  - L (CDLS POS) LAMP 120 IPM

INTERRUPTED BUSY TONE TO ATTENDANT

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

DRAWING ISSUE

1	NC HM

TEB

NO. 756A
TIE TRUNK CIRCUIT

BELL TELEPHONE LABORATORIES INCORPORATED — 6S

SD-65756-01-E1

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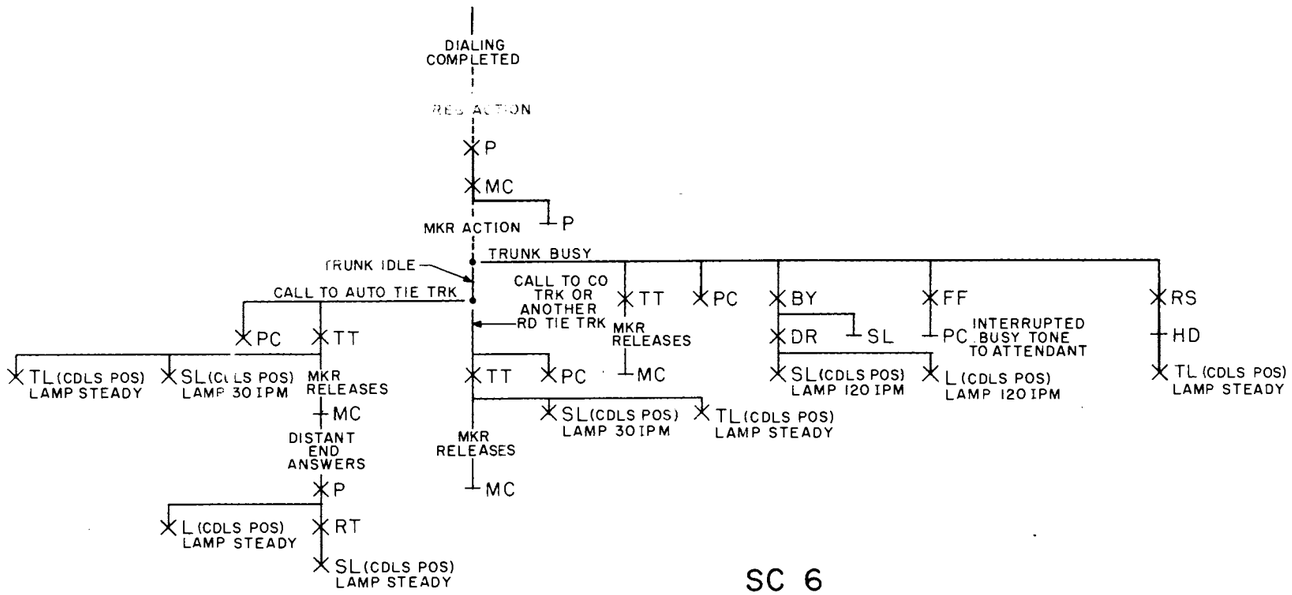
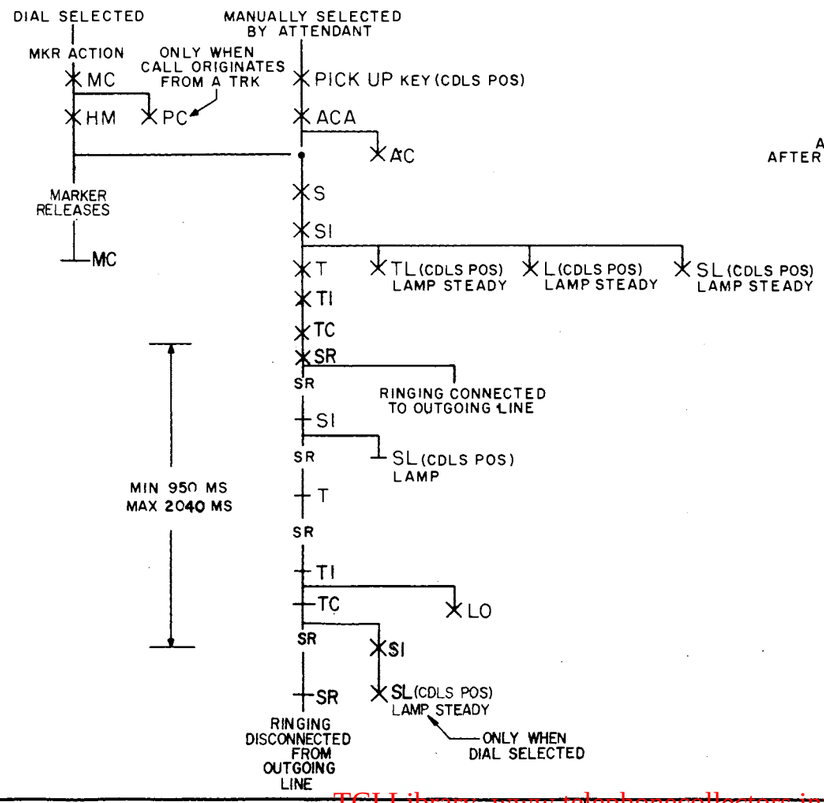
DRAWING ISSUE

1	RC HM
6	JJR SAK GFT

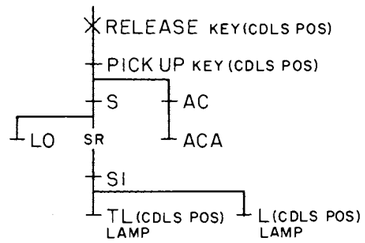
SC 5
COMPLETING INCOMING CALL TO A TRUNK



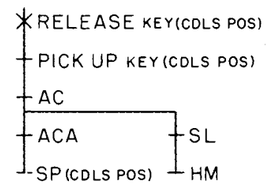
SC 6
OUTGOING CALL



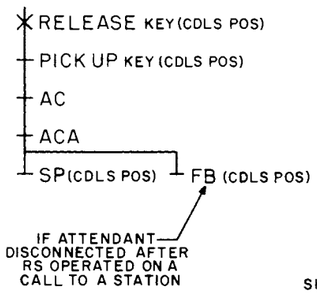
SC 7
ATTENDANT DISCONNECTS FROM TRUNK AFTER ANSWERING INCOMING CALL (SC 2) OR AFTER ORIGINATING OUTGOING CALL (SC 6)



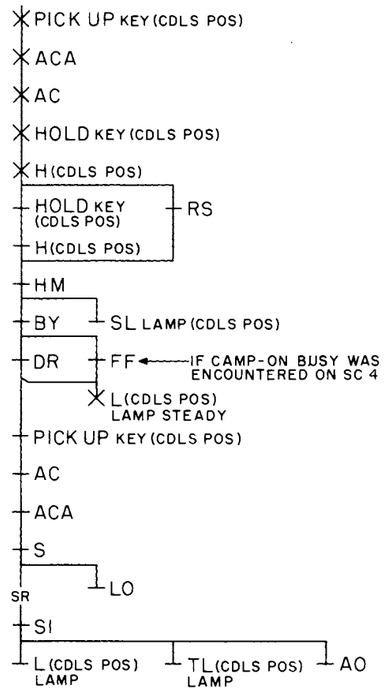
SC 8
ATTENDANT DISCONNECTS FROM TRUNK AFTER STEERING INWARD FOR DIAL TONE (SC 3)



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



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



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

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TIE TRUNK CIRCUIT (2)

BELL TELEPHONE LABORATORIES INCORPORATED 6S

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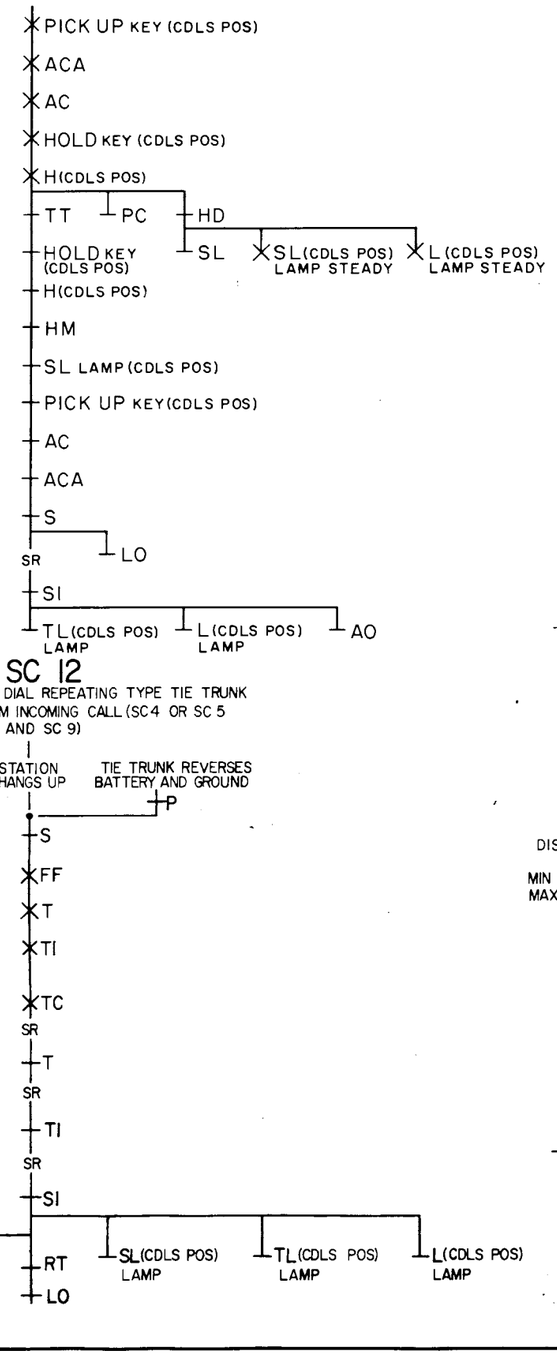
DRAWING ISSUE

1	WC MM
6	JJR SAK GFH

T.E.I.

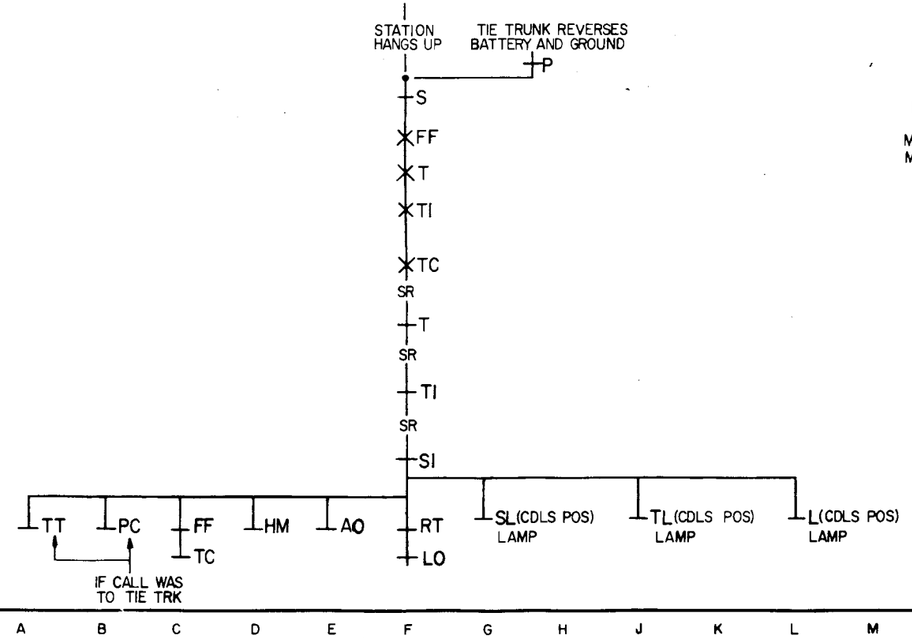
SC 11

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



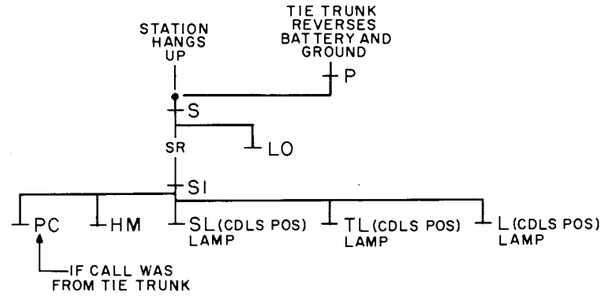
SC 12

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



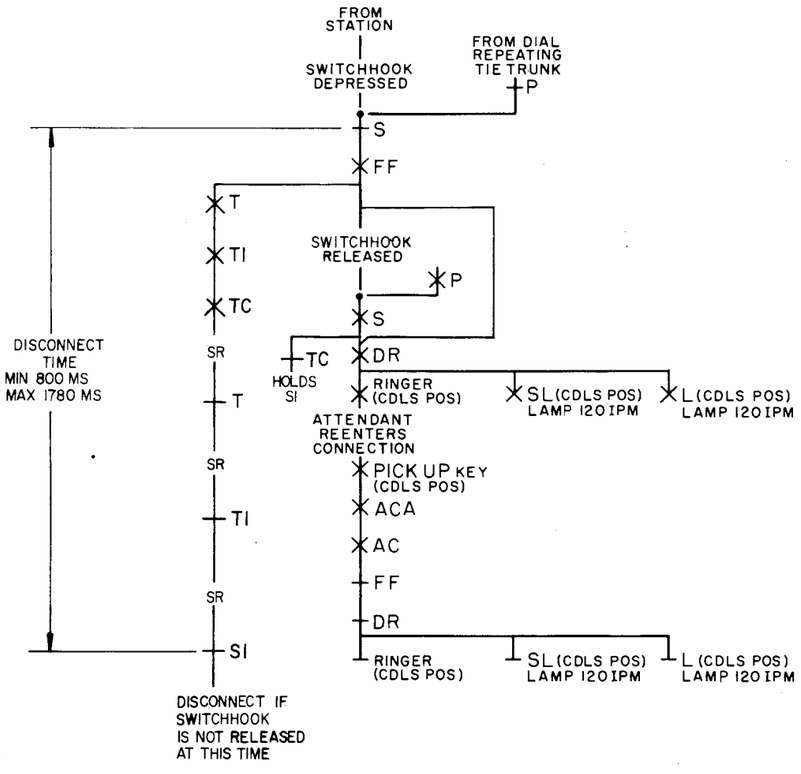
SC 13

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



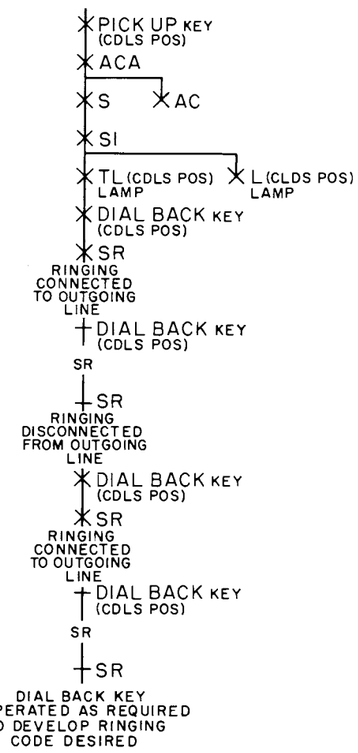
SC 14

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



SC 15

CODE RINGING OUTGOING – V OPTION



TIE TRUNK CIRCUIT

SD-65756-01-E3

BELL TELEPHONE LABORATORIES INCORPORATED 6S

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CIRCUIT REQUIREMENTS

NO. 756A TIE TRUNK CIRCUIT (T TRK OG MAN & D SEL INC RD)

DRAWING ISSUE: 1 WOS F&S; 6 JJR SAK SFH

APPARATUS DESIG	APPARATUS CODE	APPARATUS OPTION	APPARATUS FIG.	MECH REQT BSP FIG.	MECH REQT CONT PRESS.	MECH REQT ARM. TRVL.	CIRCUIT PREPARATION BLOCK OR INSULATE	CIRCUIT PREPARATION TEST CLIP DATA CONN BAT.	CIRCUIT PREPARATION TEST CLIP DATA CONN GRD	TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT TEST WDG	DIRECT CURRENT FLOW REQT TEST FOR	DIRECT CURRENT FLOW REQT AFTER SOAK MA.	DIRECT CURRENT FLOW REQT TEST MA.	DIRECT CURRENT FLOW REQT READJ MA.	REMARKS
RELAY																	
AC	AF139		1	256					U(AC)	GRD			0		8.3	7.9	
									U(AC)	GRD			H		4.8	4.5	
ACA	AJ202		1	500			(AC)NO		U(ACA)	GRD			0		42.5	40.5	
AO	1/2 AK4		1	202					2U(AO)	GRD			0		11.9	11.3	MOUNTED WITH (PC)
BY	AG33		1	3058					U(BY)	GRD			0	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		1	204					1U(DR)	GRD			0		9.2	8.7	MOUNTED WITH (RI)
FF	AJ15		1	249					U(FF)	GRD			0		42.5	40.5	
HD	AJ15		1	249					U(HD)	GRD	1		0		42.5	40.5	
HM	AF100		1	252			6(HM)		U(HM)	GRD			D		43.5	39.5	
LO	1/2 AK9		1	6					1U(LO)	GRD			0		7.7	7.3	MOUNTED WITH (SL)
MC	AJ56		1	413			4(MC)		U(MC)	GRD	2		0		57.5	54.5	
P	1/2 AK7	H	1	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	1	257				2L(P)	2U(P)	B/G		S	O		12.4	11.8	
								2L(P)	2U(P)	B/G		S	R		1.9	2	WDG ALONE & WDG WITH VARISTOR SHUNT
							(AC)O	1L(P)	1U(P)	B/G		P	O		23.5	22	
							(AC)O	1L(P)	1U(P)	B/G		P	NO		11.1	11.6	
PC	1/2 AK4		1	202					2L(PC)	GRD			0		11.9	11.3	MOUNTED WITH (AO)
R	8615		1	3		30					4	P	O	AC			
								1M(R)	4M(R)	B/G		S	O		5.8	5.4	
												S	NO		3.4	3.8	
RI	1/2 AK8		1	204					1L(RI)	GRD			0		17	16	MOUNTED WITH (DR)
RS	AJ3		1	226					U(RS)	GRD			0		18	17	
RT	AJ58		1	308			7(MC)	1L(RT)	1U(RT)	B/G	5	P	O		28	26.5	
							7(MC)	1L(RT)	1U(RT)	B/G		P	O		29.5	28	
							7(MC)	1L(RT)	1U(RT)	B/G		P	NO		20	21.5	
									2U(RT)	GRD		S	O		19		
S	AJ26		1	558	L			1L(S)	2L(S)	M	3	P/S	O		17.5	15.5	
								1L(S)	2L(S)	M		P/S	R		6.5	6.8	
SI	AG34		1	3078					U(SI)	GRD			0	FS	18	17	
									U(SI)	GRD			H	FS	3	2.8	
									U(SI)	GRD			R	FS	1.5	1.8	
SL	1/2 AK9		1	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		1	3078					U(SR)	GRD			0	FS	18	17	
									U(SR)	GRD			H	FS	3	2.8	
									U(SR)	GRD			R	FS	1.5	1.8	

TEST NOTES:

1. CONTACTS 5B AND 8B SHALL BOTH CLOSE BEFORE EITHER CONTACT 5M OR 8M OPEN WHEN (HD) RELAY RELEASES.
2. CONTACTS 9B AND 8B SHALL BOTH CLOSE BEFORE EITHER CONTACT 9M OR 8M OPEN WHEN (HC) RELAY RELEASES.
3. ARMATURE BACK TENSION TEST MIN 15 GRAMS, READJ MIN 20 GRAMS.
4. TEST FOR OPERATE BY RINGING FROM DISTANT PBX OR BY APPLYING 95V MIN, 111V MAX, 1100-1200 RPM RINGING CURRENT THRU A 13C RESISTANCE LAMP AND 8000Ω ±1% NON-INDUCTIVE RESISTOR TO TERMINAL 6 OF REP COIL (A) AND RINGING GROUND TO TERMINAL 2 OF REP COIL (A) WITHOUT "W" OR "X" OPTION.
5. ONLY 6M CONTACTS NEED MAKE ON PRIMARY 26.5 MA OPERATE TEST.

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TIE TRUNK CIRCUIT | SD-65756-01-FI | BELL TELEPHONE LABORATORIES, INC | PRINTED IN U.S.A.

E-7488 (4-82)

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CIRCUIT REQUIREMENTS

DRAWING ISSUE: 1 WOS F&S; 6 JJR SAK SFH

APPARATUS DESIG	APPARATUS CODE	APPARATUS OPTION	APPARATUS FIG.	MECH REQT BSP FIG.	MECH REQT CONT PRESS.	MECH REQT ARM. TRVL.	CIRCUIT PREPARATION BLOCK OR INSULATE	CIRCUIT PREPARATION TEST CLIP DATA CONN BAT.	CIRCUIT PREPARATION TEST CLIP DATA CONN GRD	TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT TEST WDG	DIRECT CURRENT FLOW REQT TEST FOR	DIRECT CURRENT FLOW REQT AFTER SOAK MA.	DIRECT CURRENT FLOW REQT TEST MA.	DIRECT CURRENT FLOW REQT READJ MA.	REMARKS
T	AG24		1	188	L				U(T)	GRD			0		13.7	13	
									U(T)	GRD			H		1.6	1.5	
									U(T)	GRD			R		0.7	1	
TC	1/2 AK7	H	1	203					IL(TC)	GRD			0		26.8	25.5	MOUNTED WITH (P)
									IL(TC)	GRD			NO		10.4	11	
TI	AG24		1	188	L				U(TI)	GRD			0		13.7	13	
									U(TI)	GRD			H		1.6	1.5	
									U(TI)	GRD			R		0.7	1	
TT	AJ12		1	220					U(TT)	GRD			0		42.5	40.5	

(2 PAGES) PAGE 2

TIE TRUNK CIRCUIT (2) | SD-65756-01-FI | BELL TELEPHONE LABORATORIES, INC | DWG SIZE 6S | PRINTED IN U.S.A.

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CAD 1

SHOWN ON 756A PBX CAD. FOR CENTRAL OFFICE TRUNKS 3,4,8 AND 9

CONNECTORS ON PBX ROOF CA

TO CENTRAL OFFICE OR DIST PBX — T 1 6 (GR) REL; R 2 4

TO CROSSBAR SW-SLIDE 4 — T 3 7B; R 4 5B (BY) REL

TO MKR SLIDE 6 — FF(O,E) 5 10M; RT(O,E) 6 11M; M(O,E) 7 9M; RLS(O,E) 8 4M (MC) REL

TO CROSSBAR SW-SLIDE 4 — S 9 6 (BY) REL

TO MKR-SLIDE 6 — CW 10 11M (DR) REL

TO THM-SLIDE 4 — ST(3,4,8,9) 11 6B (HM) REL

TO MKR-SLIDE 6 — BY(O,E) 12 6M

TO TRK CONN UNIT SLIDE 4 — RS(O,E) 13 12M; TT(O,E) 14 3M (MC) REL

TO MKR-SLIDE 6 — 15

NT 16 2M (MC) REL

TO TRK CONN UNIT (MKR CKT)-SLIDE 4 — IT 17 IT PCHG 23 ON UNIT TS (CAD 2)

RUN BY WAY OF ATT TRK CKT — 18

TO POWER SUPPLY IN SLIDE 1 — SF(1,2) 19 8B (TT) REL; F(1,2) 20 8M (BY) REL; FF(1,2) 21 3M (RI) REL; FT 22 10M (FF) REL

SEE NOTE 201 (V) — 23

TO CODE RINGING SUBSET — L2 24 2 (PC) REL

TO TRK CONN UNIT (MKR CKT)-SLIDE 4 — U(3,4,8,9) 25 4

TO MKR-SLIDE 6 — TR(0,1) 26 2 (HM) REL

TO POWER SUPPLY IN SLIDE 1 — BT 27 10B (FF) REL

RUN BY WAY OF ATT TRK CKT — 28

TO POWER SUPPLY IN SLIDE 1 — CR 29 4M (SR) REL

SEE NOTE 201 (V) — 30

TO CODE RINGING SUBSET — LI 31 5M (PC) REL

32

TO PREC CENTRAL OFFICE TRK OR TIE TRK CKT — RI 33 7 (MC) REL; RING G 34 6M (SR) REL

35

CONN (A) ON TRK PTCH UNIT - SLIDE 5 — CONN (A) ON TRK UNIT

SHOWN ON 756A PBX CAD. FOR CENTRAL OFFICE TRUNKS 3,4,8 AND 9

CONNECTORS ON PBX ROOF CA

TO CDLS POS CKT — TR 1 1; LT 2 4; LR 3 3; SPI 4 7; FB 5 5 (ACA) REL

(PICK-UP) KEY-CDLS POS — ACA 6 6

TO CDLS POS CKT — HM 7 16M; HD 8 8M; SP 9 9M; H 10 15M

TO IST CDLS POS — TLI 11 T (T) RES; SLI 12 T (S) RES

TO 2ND CDLS POS — TL2 13 B (T) RES; SL2 14 B (S) RES

TO KEY TEL SET — L 15 (L) RES

TO CDLS POS CKT — BT 16 14 (ACA) REL

TO CDLS POS — BZ (S,T) 17 11 (FF) REL

RUN BY WAY OF ATT TRK CKT — (T) 18

(T) OPT

TO CDLS POS CKT — T 19 12M; U 20 13M; NT 21 11M (ACA) REL

22

TTI 23 2 (ACA) REL

HG 24 21M (ACA) REL

25

26

27

28

TO ALM TRANS AND TEST CKT — 29; 30; 31

32

TO FUSE PANEL SLIDE 1 — CO-BAT 33 10 (HM) REL

34

CO-GRD 35 GRD PCHG 13 ON UNIT TS (CAD 2)

CONN (B) ON TRK PTCH UNIT SLIDE 5 — CONN (B) ON TRK UNIT

CAD 2

RING DOWN TIE TRUNK OPTIONS

SEE NOTE 10

W,X 11 (TLI) RES

W 21 1; 31 6 (A) REP COIL

W 12; 22 (TL) RES

X 32

H J

TIE TRK EQUIPPED AND UNASSIGNED — Z 13 GRD; 23 IT TO CAD 1

TIE TRK EQUIPPED AND ASSIGNED AS NON-CODE RINGING TRK — Y 33 10 (SR) REL; 12M (S1) REL

STRAP WHEN CODE RINGING IS NOT REQUIRED — U 14 U (T) REL; 24 10 (LO) REL

34 11 (FF) REL

U 15 5M (RI) REL; 25 4B (SI) REL

35 1M

STRAP WHEN CODE RINGING IS REQUIRED — V 16 4; 26 4B (RI) REL

36 11M; 17 11 (AO) REL

V 27 11 (ACA) REL

U 37 2 (MC) REL

18

28

38

TS ON TIE TRUNK UNIT

DRAWING ISSUE

1	CAG KAM
2D	RKK PWS
3D	RKK JJR
6B	JJR SAK GEH

10 A HW

TIE TRUNK CIRCUIT (2)

BELL TELEPHONE LABORATORIES INCORPORATED — SYS SITE 6S

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APP FIG. 1,3,5,6,7,8,9,10,13&14	C1	1	2	2	4	5	6	7	8	8	10	10	10	10																																							C1
PART OF APP FIG. 2	C2	1	1	1	4	4	6	7	7	7	7	7	7	7																																							C2
PART OF APP FIG. 2 OR 11	C3	1	1	1	4	4	6	6	6	6	6	6	6	6																																							C3
PART OF APP FIG. 2 OR 11	C4	1	1	1	4	4	6	6	6	6	6	6	6	6																																							C4
PART OF APP FIG. 2 OR 11	C5	1	1	1	4	4	6	6	6	6	6	6	6	6																																							C5
PART OF APP FIG. 12	C6	1	2	2	4	4	6	6	6	6	6	6	6	6																																							C6
APP FIG. 4	C7	1	1	1	4	4	4	7	7	7	7	11	11	11																																							C7
PART OF APP FIG. 12	C8				4	4	6	6	6	6	6	6	6	6																																							C8
PART OF APP FIG. 11	C9				4	4	6	7	7	7	7	7	7	7																																							C9
PART OF APP FIG. 12	C10				4	4	6	7	7	7	7	7	7	7																																							C10
PART OF APP FIG. 12	C11				4	4	6	6	6	6	6	6	6	6																																							C11
PART OF APP FIG. 12	C12				4	4	6	6	6	6	6	6	6	6																																							C12
PART OF APP FIG. 12	C13				4	4	6	6	6	6	6	6	6	6																																							C13
CIRCUIT NOTES EQUIPMENT NOTES 205-209	D1	1	2	2	4	5	6	7	7	7	10	11	12	13																																							D1
EQUIPMENT NOTES 201	D2	1	1	1	4	4	6	6	6	6	6	6	6	6																																							D2
EQUIPMENT NOTE 202	D3				4	4	6	6	6	6	6	6	6	6																																							D3
EQUIPMENT NOTES 202 (CONT)	D4				4	4	6	6	6	6	6	6	6	6																																							D4
INFORMATION NOTES 301, 302	D5				4	4	6	6	6	6	6	6	6	6																																							D5
INFORMATION NOTES 303, 304	D6				4	4	6	6	6	6	6	11	11	11																																							D6
EQUIPMENT NOTE 210	D7											11	11	11																																								D7
SC 1 ATTENDANT ANSWERS INCOMING TRUNK SIGNAL SC 2 ATTENDANT HOLDS TRUNK CIRCUIT SC 3 ATTENDANT DISCONNECTS FROM TRUNK CIRCUIT SC 4 ATTENDANT COMPLETES INCOMING CALL FROM 2 WAY CENTRAL OFFICE TRUNK VIA DIRECT STATION SELECTION	E1	1	1	1	4	4	6	6	6	6	6	6	6	6																																							E1
SC 5 INDICATION OF CAMPED-ON CALL TO BUSY LINE SC 6 CENTRAL OFFICE TRUNK CAMPS-ON BUSY LINE SC 7 ATTENDANT DISCONNECTS FROM TRUNK	E2	-	-	-	-	-	6	6	6	6	10	10	10	10																																							E2
CKT REQT TABLE	F1	1	2	2	4	4	6	6	6	6	10	11	11	11																																							F1

SUPPORTING INFORMATION

CATEGORY	NO.
CABLING DRAWING	SD-65746-01
FEATURE CABLE	SD-66920-01
EQUIPMENT DRAWING	J58829L( ) J58829AK( )
EQUIPMENT SPECIFICATION	J58829

SHEET INDEX NOTES

1. WHEN CHANGES ARE MADE IN THIS DRAWING, ONLY THOSE SHEETS AFFECTED WILL BE REISSUED.
2. 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.
3. THE ISSUE NUMBER ASSIGNED TO A CHANGED OR NEW SHEET WILL BE THE SAME ISSUE NUMBER AS THAT OF THE SHEET INDEX.
4. SHEETS THAT ARE NOT CHANGED WILL RETAIN THEIR EXISTING ISSUE NUMBER.
5. THE LAST ISSUE NUMBER OF THE SHEET INDEX IS RECOGNIZED AS THE LATEST ISSUE NUMBER OF THE DRAWING AS A WHOLE.

DWG ISSUE	CD ISSUE	DATE ISSUED	DRAWN	APP'D	
1	1	10-10-59	A.N.S W.N.	WKT RWS	P.O.B.
2D	2D	3-22-60	P.A.S N.S	WWS RWS	P.D.
3D	3D	5-5-60	R.G. N.S.	W.W.S RWS	P.D.
4B	4B	8-15-61	V.D.G. HM	WWS RWS TEB	H
5B	4B APP 1B	8-19-63	V.C. WWH	ARM HFH P.D.	10
6B	5B	4-30-64	SUM. EJH MAE	PD	
7D	5B APP 1D	4-30-64	RKU JAF RMC	WES RAV KFJ	NW
8D	5B APP 2D	12-11-64	RKU SAK RHB	AEK RAV KFJ	HW
PMCO 9D	5B APP 3D	8-17-65	WGN SAK RGL	RRS LAH GFH	
IOAC	5B APP 4AC	8/25/66	TEF PJS	HDB LAH GFH	HW
11B 12B	5B APP 5B	12-6-66	JJR PJS RCL	HDB LAH RHP	
12D	5B APP 6D	10-19-67	JJR PJS ARR	JHF LAH RHP	HW
13D	5B APP 7D	10-19-67	TEF PJS RCL	JJM LAH RHP	

REPLACES SD-65751-01

13

1J07

PBX SYSTEMS

NO. 756A
CORDLESS POSITION CIRCUIT

(POS CKT) (2)

AT&TCO STANDARD

SD-65757-01-A1

33 SHEETS

BELL TELEPHONE LABORATORIES INCORPORATED

SIZE 6S

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APPARATUS INDEX

DESIG	LOCATION FS	APP FIG.	EQUIP
RELAYS			
BZ	5E7	3	
BZ1	5B3	3	
CO	8C4	13	
CS	8A3	13	
DS	8C3	13	
FB	5H0	1	
H	5A6	1	
HA	5G0	5	
NT	5A8	1	
SP	5G5	1	
SPA	6B3	13	
SS	8C2	13	

DESIG	LOCATION FS	APP FIG.	EQUIP
KEYS			
DIAL BACK	5C5	9	
NIGHT	5F7	10	
REMOTE ANSWER	5E5	14	

CAPACITORS			
BT	6E6	1	
BZ	6E3	8	

RESISTORS			
ARB	4E2	5	
IL	8G2	13	
[illegible]	1G0	1	
R	2C2	1	
	7C2	1	
T	2A2	1	
	7A2	1	

TONE GENERATOR			
IT	8[illegible]	13	

DIODE			
DS	8C3	13	
HA	5A0	5	

HEAD TELEPHONE SET			
	2B9	6	
	2B9	7	
	7D9	6	
	7D9	7	

INDUCTORS			
A	2B2,	1	
	7B2	1	
TB1, TB2	2D9,	3	
	7D9	3	

LEAD INDEX

DESIG	FS LOC	CAD LOC
2 WAY CENTRAL OFFICE TRUNK CIRCUIT		
ACA	1B2	
BAT.	8C2	
BT	6E7	
BZ	6E7	
BZ0-BZ9	6E7	
CO-	8B2	
COA-	8C2	
CS	8A2	
FB	5H1	
H	5G3	
HD	5F3	
HG	5G3	
HM	5H3	
IC1	8B1	
IC2	8B2	
L	6E6	
LR	2D1, 7D1	
LT	2D1, 7D1	
NT	5B7	
RC	8H2	
SL1	6E5	
SL2	6E6	
SP	5F3	
SR	5G3	
SS	8D2	
T	5G1	
TC	8G2	
TL1	6E6	
TL2	6E6	
TR	2C1, 7C1	
TT	2A1, 7A1	
U	5H1	
W	5A0	

3C OR 4B TELEPHONE CONSOLE CKT		
ACA	1C0, 1E0, 1A5	
ACG	1E0, 1G	
ARB1	4D0	
ARB2	4E0	
ARBG	4F0	
B20-B80	4G8	
BL-20-BL-89	4G8	
BZ	6H2, 6H3	
G	1H5, 1H6	
I'	5A2, 5A4	
HI	4C0, 4G0	
HG	4B0, 4G0	
LG	6H6	
NS	5E8	
NSG	5G8	
NTG	5A2, 5A4	
RI0-RI5	7G3	
SG	5D2, 5D3	
SGI	5D3, 5D4	
SG2	5E1	
SG3	5E1	
SL-	6G4, 6G5	
T-	4B0, 4G0	

3C OR 4B TELEPHONE CONSOLE CKT		
T10-T15	7G3	
TG	4B0, 4G0	
TL-	6G5, 6G6	
TR	3G7, 7A3	
TRI	3G5, 7E3	
TR6	6G7	
TRL	6G7	
TT	3G7, 7A3	
TTI	3G5, 7A3	
U	4C0, 4G0	
UG	4B0, 4G0	

556A CORD SWBD CKT		
ACG	1G1	
BZ	6H3	
G	1G2	
SGI	5D0	

555GK OR 15656GK 6 BUTTON KEY TEL. SETS		
T,TT	3E0,3F0	
R,TR	3E0,3F0	
ACA-	1E9, 1B9	
ACG	1G9	
BZ	6F2	
DB	5D6	
H	5B6	
L-	6H4	
SL3-	6H4	

608A OR 608D CORD SWBD AUX. SIG. F.A., BC.O., & MISC. CKT		
ACG	1C1	
G	1G1	
SGI	5D0	

ALARM TRANFER AND TEST CKT		
B20-B80	4G8	
NS	5E8	
TRL	6G8	

ATTENDANT TRUNK CKT		
ACA	1D2	
B2	6E3	
BZ(0)-BZ(2)	6E4	
HC	5F5	
HI	5A0, 5G0	
SLI	6E4	
SL2	6E4	
SL3	6E4	
SP	5F5	
TLI	6E5	
TL2	6E5	
TR	7F1, 2F1	
TT	2F1, 7F1	

BUSY VERIFICATION TRUNK CKT		
AR	2F2, 7F2	
AT	2F2, 7F2	
BT	5H5	
FB	5H3, 2H2, 7H2	
ST		

AUXILIARY POSITION CKT		
ACG	1F1	
ACGI	1F1	
H	5B0	
RA	5F9	
TR	2G6, 7G6	
TRI	2G6, 7G6	
TT	2G6, 7G6	
TTI	2G7, 7G7	

DIAL PULSE REGISTER CKT		
ARB	4E3	
HI	4B3, 4F3	
HA	4H3	
HAI	5F0	
HA2	5F0	
SG2	5C0, 5D0	
SG3	5C0	
T-	4A3, 4F3	
U-	4B3, 4F3	

LINE CKT		
R	2G4, 3E0, 7G4	
T	2G4, 3E0, 7G4	

LINE, LINK AND MARKER CKT		
BL-20 TO BL-89	4G9	

STA DIAL TRANSFER CONTROLLER CKT		
BZ0-9	6F8	

TIE TRUNK CKT, INC RINGDOWN		
ACA	1B2	
BT	6E6	
BZ	6E6	
BZ3,4,8,9	6E7	
FB	5H3	
H	5G3	
HD	5F3	
HG	5G3	
HM	5H3	
L	6E6	
LR	2G1, 7G1	
LT	2G1, 7G1	
SL1	6E5	
SL2	6E6	
SP	5F3	
SP1	2H1, 7H1	
SR	5G3	
T	5G1	
TL1	6E6	
TL2	6E6	
TR	2H1, 7H1	
TT1	2H1, 7H1	
U	5H1	

OPTION INDEX

APP OR WRG	LOCATION
13	APP FIG. 13
ZC	6E3
ZD	6E3
ZE	6E3
ZF	6F7
ZG	1C3, 1D3, 1D5, 1G3, 1G5, 1G7 3G5, 3G7, 5B2, 5B4, 5C1, 5D2, 5D4, 5E8, 5G8, 6E4, 6F2, 6G2, 6H6, 7C3, 7E3, 7G3
ZH	1C3, 1D3, 1D5, 1G3, 1G5, 1G7, 3G5, 3G7, 4B1, 4B2, 4B3 4D1, 4D2, 4E2, 4F1, 4F2, 4F3, 4G8, 5B2, 5B4, 5C1, 5C2, 5C4, 5E8, 5G8, 6E4, 6F2, 6G2, 6H6, 7C3, 7E3, 7G3
ZJ	5G0, 8C2
ZK	2F2, 2H2, 7F2, 7H2
ZL	5F4
ZM	8C3
ZN	1G1, 2A2 2C3, 7G6
ZO	1G1, 2A3, 2C3, 5A0, 5F9, 7G6
ZP	5D3, 5D4
ZQ	5E3
ZR	5D5
ZS	APP FIG. 14, 5E5
ZT	APP FIG 13 8A3-8D3
ZU	APP FIG 13 8A3-8D3
ZV	APP FIG 13 8C3-8H2
ZW	APP FIG 13 8C3-8H2
ZX	1B8, 1E8, 1G8, 3E0, 3E1, 3E3, 5A5, 5C5, 5D6, 6E2, 6E4, 6E6, 3F3
ZY	5H0, 5H5
ZZ	5H0, 5H5

APP OR WRG	LOCATION
Y	APP FIG. 12, 7G4
X	1C3, 1C4, 1D3, 1D4, 1G0, 1G3, 1G4, 1G5, 2A3, 2A4, 2C3, 2D3, 2D5, 2E5, 4A1, 4A2, 4B1, 4B3, 4D1, 4D2, 4G8, 5B2, 5D1, 5D2, 5E8, 5F8, 5G8, 6E4, 6E5, 6E6, 6G2, 6H6, 7A3, 7A4, 7C3, 7D3, 7D5, 7D8, 7E5
W	5E7
V	3E1
T	3E1, 3F1, 3G3
S	1G6, 1G7, 3F5, 3F7, 3H5, 3H7, 5D3, 5D4
R	1B8, 1E8, 1G8, 3A1, 3E1, 3E4, 3H4, 5B5, 5D5, 6E2, 6E4, 6E6, 6G6
Q	1G3, 1G5, 2A3, 2C3, 2D3, 5D1, 5D2, 7A3, 7C3, 7D3
N	1C6, 1C7, 1D6, 1D7, 1G6, 1G7, 3F5, 3F6, 3F7, 3H5, 3H6, 3H7, 4E1, 4E2, 4F1, 4F2, 4F3, 4G8, 5B4, 5D1, 5D3, 5D4, 5E8, 5F8, 5G8, 6E4, 6E5, 6E6, 6F2
M	1G1, 1G2, 5D1
K	1G1, 1G2, 5D1
G	5C1, 5D1
F	5B5, 5C5, 5D5
E	5E8, 5F7
B	APP FIG. 1, 5E6, 6F3, 6G3
A	APP FIG. 5

DRAWING ISSUE

6B	AUG '72	WAM	
		PD	
7D		RKU	
PMJC		JRF KFJ	HW
8D		RKU SAK	HW
PMJC		KFJ	
9D		WGN SAK	
		GFH	
10AC		TEF PJS	
		GFH	
11B		PMC PJS	
		RHP	
12D		JJR PJS	
		RHP	
13D		TEF PJS	
		RHP	

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CORDLESS POSITION CIRCUIT (2) SD-65757-01-A2

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FS 1

CONNECTION TO TRUNK CIRCUIT

2 WAY CENTRAL OFFICE TRUNK CIRCUIT
OR
TIE TRUNK CKT INC RINGDOWN

-48 ACA AC ACA ACA AC -48 ACA

TO FIRST 3C OR 4B CONSOLE

ACA ACA ACG

ATTENDANT TRUNK CIRCUIT

AC -48 ACA

AUX POS CKT

TO 2 WAY TRK CKT TO C.O. ACA LO— LOE RAC ACG ACGI

ZO ZN ZO ACG ACG

AP SP 8 NT 5 H 5100

POS CKT LOCATED IN SLIDE 5

CORD SWITCHBOARD

M BCO M K K

TO SECOND 3C OR 4B TELEPHONE CONSOLE

ACA ACA

ZO,ZH N,Y

PICKUP KEY (X) CENTER OR (Y) LEFT KEY UNIT

CHAINING SWITCH (X) CENTER OR (Y) LEFT KEY UNIT

46 21 37 12 TO PCHG 2,4,6,8 & 10

X,Y ZG,ZH

PICKUP KEY RT KEY UNIT (X)

CHAINING SWITCH RT KEY UNIT (X)

31 6 TO PCHG 2 & 4

ZG,ZH

PICKUP KEY (N) CENTER OR (Y) LEFT KEY UNIT

CHAINING SWITCH (N) CENTER OR (Y) LEFT KEY UNIT

PICKUP KEY RT KEY UNIT (N)

CHAINING SWITCH RT KEY UNIT (N)

TO OTHER PICKUP KEYS 6 BUTTON KEY TELEPHONE SET

PICKUP KEY 6 BUTTON SET

ZX R ACA M

TO 6 BUTTON KEY TELEPHONE SET

ACG

ZX R SG b c

SWITCHHOOK 6 BUTTON KEY TELEPHONE SET

ACGI 5 6 7 (X)A JACK Q G ACG

ACGI 5 6 7 (N)A JACK S G ACG

IST 3A OR 4A TELEPHONE CONSOLE

2ND 3A OR 4A TELEPHONE CONSOLE

TO FIRST 3C OR 4B TELEPHONE CONSOLE

TO SECOND 3C OR 4B TELEPHONE CONSOLE

ACG G

DRAWING ISSUE

1	O.L. WM	POI
4B	KOG K.M. TZB	
6B	BAS P.D.	
7D	PFD JFF KFJ	WM
11B	JJR FUS RHP	

CORDLESS POSITION CIRCUIT (2)

BELL TELEPHONE LABORATORIES INCORPORATED

SD-65757-01-B1

11

SD-65757-01-B1

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PART OF FS 2 (MFR DISC)

TALKING TIP AND RING
(610A TELEPHONE SET)

(X,Y) 610A TELEPHONE SET

2 WAY CENTRAL OFFICE TRUNK CIRCUIT

TO CENTRAL OFFICE LINE CIRCUIT ARRANGEMENT FOR RING GROUND START

LINE, LINK AND MARKER CIRCUIT

ATTENDANT TRUNK CIRCUIT

TIE TRUNK CIRCUIT INC RINGDOWN

TO DISTANT PBX

BUSY VERIFICATION TRUNK CKT

TO LINE CIRCUITS

61A FILTER

DIAL PULS

DIAL ON

CHAIN SW

RIGHT KEY

CENTER KEY

LEFT KEY

IND COIL

HANDSET

HEAD TELEPHONE SET

TB INDR

POS CKT LOCATED IN SLIDE 5

151B AMPLIFIER

AUX POS CKT

DRAWING ISSUE		
1	AEG WM	POB
4B	VOG HM TEG	
6B	SUPP RDK WRE PD	
7D	PFD WFF MSJ	HM PMJD

PBX SYSTEMS
NO. 756A
CORDLESS POSITION CIRCUIT (2)

BELL TELEPHONE LABORATORIES INCORPORATED

DWG SIZE 6S

SD-65757-01-B2

7

SD-65757-01-B2

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PART OF FS 2, 11 OR 12
TALKING TIP AND RING

6 BUTTON
Ⓡ KEY TELEPHONE SET

NETWORK

PULS DIAL

SWITCH

ON DIAL

SWITCH

5TH KEY
4TH KEY
3RD KEY
2ND KEY
1ST KEY

TO 6 BUTTON KEY TELEPHONE SET

TWO LINE CKT

2ND 3A OR 4A TELEPHONE CONSOLE

TO 2ND 3C OR 4B TELEPHONE CONSOLE

TO 2ND 3C OR 4B TELEPHONE CONSOLE

2E3, 7E3

CORDLESS POSITION CIRCUIT (2)

BELL TELEPHONE LABORATORIES INCORPORATED

SD-65757-01-B3

SD-65757-01-B3

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PART OF FS 2

ATTENDANT DIRECT STATION SELECTION

DRAWING ISSUE 68

PMJD

IST 4A TELEPHONE CONSOLE DSS KEYS

AP, TG, UG, HG, HI, T−, U−, ZH, X

TO IST 4B TELEPHONE CONSOLE

IST 4A TELEPHONE CONSOLE

ARBG, SG1, SG2, B JB 7 6 5, −48, ARB, ARBI, 900

2ND 4A TELEPHONE CONSOLE DSS KEYS

ARB2, N, 2ND 4A TELEPHONE CONSOLE

TO 2ND 4B TELEPHONE CONSOLE

THESE SG LEADS ARE THE SAME AS SHOWN ON SH B5.

2ND 4A TELEPHONE CONSOLE

SG, SG2, B JK 6 5 7, −48, 5GO, HA

DIAL PULSE REGISTER CKT

A REGISTER O

POSI, AC, T−, U−, TO STEERING RELAY, TO UNITS RELAY

−48, SR, DC

A REGISTER I

POS2, AC, SR, DC

LINE, LINK & MARKER CKT

KPCO, KPCI, RAOA, RGA, TRCO, RGB, TRCI, RAIA

PART OF 4A TELEPHONE CONSOLE

DSS LAMPS (20-89)

TO ALARM, TRANSFER AND TEST CKT

B20-B80, BL-20-BL-89, NX, ZH, LHM−, LINE, LINK & MARKER CKT

TO 4B TELEPHONE CONSOLE

6

PBX SYSTEMS
NO. 756A
CORDLESS POSITION CIRCUIT

SD-65757-01-B4

BELL TELEPHONE LABORATORIES INCORPORATED

DWG SIZE 6S

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FS 3

HOLD CONTROL AND MARKER START CIRCUIT

TO IST 3C OR 4B TELEPHONE CONSOLE

TO 2ND 3C OR 4B TELEPHONE CONSOLE

TO 2 WAY TRUNK CKT TO CENTRAL OFFICE

TO 3RD ATTENDANT TRUNK

RAC

AUX POS CKT

DIAL PULSE REGISTER CKT

POS 1

POS 2

BCO

CORD SWITCHBOARD

DIAL BACK NL KEY

HOLD NL KEY

TO 6 BUTTON TELEPHONE SET

6 BUTTON KEY TEL SET

REMOTE ANSWER KEY

TO IST 3C OR 4B TELEPHONE CONSOLE

TO 2ND 3C OR 4B TELEPHONE CONSOLE

IST 3A OR 4A TELEPHONE CONSOLE

2ND 3A OR 4A TELEPHONE CONSOLE

TO REGISTER 0

TO REGISTER 1

TO IST ATTENDANT TRUNK CKT

LINE, LINK AND MARKER CIRCUIT

TEA

TR(0-1)

U(0-9)

LUC

TRU

ATTENDANT TRUNK CIRCUIT

2 WAY CENTRAL OFFICE TRUNK CIRCUIT OR TIE TRUNK CIRCUIT INC RINGDOWN

BUSY VERIFICATION AUXILIARY TRUNK

POWER SUPPLY CKT.

FS 4

NIGHT AND DIAL BACK KEY CIRCUIT

LINE LINK AND MARKER CIRCUIT

2 WAY CENTRAL OFFICE TRUNK CIRCUIT OR TIE TRUNK CIRCUIT INC RINGDOWN

ALARM TRANSFER AND TEST CIRCUIT

SEE NOTE 1

EXTERNAL CONN BLOCK

NIGHT SERVICE KEY

6 BUTTON KEY TEL SET

TO 3C OR 4B TELEPHONE CONSOLE

AUX POS CKT

SHEET NOTES:

1. ONLY ONE NIGHT SERVICE KEY SHALL BE CONNECTED.

DRAWING ISSUE		
1	MD WM	Pos
2D	PAS MJS	P.D
3D	RB MJS	P.D
4B	VCH HM	NY
6B	TEF SAK JJR	HQ
7D	PVD JWT KJV	
8D	RAV SAK KJV	HW
11B	JJR PJS KMP	B
WORN DRAWING REPRODUCED WITHOUT CHANGE 2-13-67 CED		
12D	JJR RJS RHP	HW
13D	TEF PJS RHP	C

13

CORDLESS POSITION CIRCUIT (2) SD-65757-01-B5

SD-65757-01-B5

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FS5

RINGER, LAMPS, ALARM AND TONE CIRCUIT

TABLE 1

BZ RELAY CONTACT	ASSOC LEAD DESIG
1	BZ0
2	BZ1
3	BZ2
4	BZ3
5	BZ4
6	BZ5
7	BZ6
8	BZ7
9	BZ8
10	BZ9

TABLE 2

BZ1 RELAY CONTACT	ASSOC LEAD DESIG
1	BZ1(0)
2	BZ1(1)
3	BZ1(2)

POWER SUPPLY CIRCUIT

ATTENDANT TRUNK CIRCUIT

2 WAY CENTRAL OFFICE TRUNK CIRCUIT OR TIE TRUNK CIRCUIT INC RINGDOWN

SEE 2 WAY CENTRAL OFFICE TRUNK CIRCUIT

INT -48 30 IPM SF

INT -48 120 IPM FF

A ON OUT -48 HD

HD TN

CR ON B HD

RI R FF DR BY

-48

CR FT SF F FF

BZ ZC BZ(0-2) SL 3 SL 1 SL 2 TL 1 TL 2 SL 1 SL 2 L TL 1 TL 2 BT BZ BZ 0-9

BT 5H5

BT 0.1 UF

BT 2C2,7C2

ZG,ZH ZX

INT 120 IPM INT 30 IPM INT 60 IPM INT 120 IPM -48

CR LT

POWER SUPPLY CIRCUIT

ZF BZ 0-9 ARO-9 CR

STA DIAL TRFR CONTROLLER CIRCUIT

TO 2ND 3A OR 4A TELEPHONE CONSOLE (SEE NOTE2)

TL- TL- SL- SL-

ALARM TRANSFER AND TEST CIRCUIT

TR -48 V,X,T W,T

TRL TRG

CORDLESS POSITION CIRCUIT ZG,ZH X,N

TO 3C OR 4B TELEPHONE CONSOLE

TRL TRG ZG,ZH X,N TR AP

CORD SWBD TRL TR AP

R 6 BUTTON KEY TEL SET

5D6 RG3 ER EXCLUSION KEY RR C4A RINGER RT

BZ R ZE BZI 12 ZE BZ ZD ZX 0.5 UF

BZ TO 6 BUTTON TELEPHONE SET

N 2ND 3A OR 4A TELEPHONE CONSOLE

5D4 RG2 AUD SIG KEY DIA RINGER N BZ ZG,ZH

X 1ST 3A OR 4A TELEPHONE CONSOLE

5C2 RG1 AUD SIG KEY DIA RINGER X BZ ZG,ZH

SEE TABLE 2

SEE SHEET NOTE 1

SEE TABLE 1

SEE SHEET NOTE 1

(6 BUTTON KEY TEL SET)

L (6 BUTTON KEY TEL SET) AP

L SL TL SL TL

TO 1ST 3C OR 4B TELEPHONE CONSOLE

TO 2ND 3C OR 4B TELEPHONE CONSOLE

TO 556A SWBD

TO 1ST 3C OR 4B TELEPHONE CONSOLE (SEE NOTE 2)

TO 2ND 3C OR 4B TELEPHONE CONSOLE (SEE NOTE 2)

1ST 3A OR 4A TELEPHONE CONSOLE

X LG ZG,ZH AP

TO 1ST 3C OR 4B TELEPHONE CONSOLE

TO 6 BUTTON TELEPHONE SET

SHEET NOTES:

1. STRAP A MAKE CONTACT TO A BREAK CONTACT FOR EACH TRUNK CIRCUIT ASSOCIATED WITH A 6 BUTTON KEY TELEPHONE SET.
2. NUMBERING OF TL- & SL- LEADS WILL BE THE SAME AS THE ASSOCIATED CONSOLE TRUNK PICK UP KEY.

DRAWING ISSUE

6B	SJM PT MA PD
7D	MPA JPF HW KFJ
8D	RKJ SAK HW KFJ
9D	MGN SAK GFH
11B	JJR PJS RHF

CORDLESS POSITION CIRCUIT

SD-65757-01-B6

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DWG SIZE 6S

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PART OF FS 11 OR 12
TALKING TIP AND RING

2 WAY CENTRAL OFFICE TRUNK CIRCUIT

TO CENTRAL OFFICE LINE CIRCUIT ARRANGEMENT FOR RING GROUND START

LINE, LINK AND MARKER CIRCUIT

ATTENDANT TRUNK CIRCUIT

TIE TRUNK CIRCUIT INC RINGDOWN

TO DISTANT PBX

TO IST 3C OR 4B TELEPHONE CONSOLE

(X,Y) IST 3A OR 4A CONSOLE

BUSY VERIFICATION TRUNK CKT -48

TO IST 3C OR 4B TELEPHONE CONSOLE

TO LINE CIRCUITS

61A FILTER

DIAL PULS

DIAL ON

CHAIN SW

RIGHT KEY

CENTER KEY

LEFT KEY

HANDSET

HEAD TELEPHONE SET

TB1 OR TB2 INDR (SEE NOTE 1).

POS CKT LOCATED IN SLIDE 5

151E AMPLIFIER

AUX POS CKT

SHEET NOTES:

1. TB1 IS USED WITH FIRST CONSOLE, TB2 IS USED WITH SECOND CONSOLE.

DRAWING ISSUE

4B	
6B	
7D	

PBX SYSTEMS
NO. 756A
CORDLESS POSITION CIRCUIT (2)

SD-65757-01-87

BELL TELEPHONE LABORATORIES INCORPORATED

6S

7

SD-65757-01-87

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(13) FS13
INDICATION OF CAMPED-ON CALL TO BUSY LINE

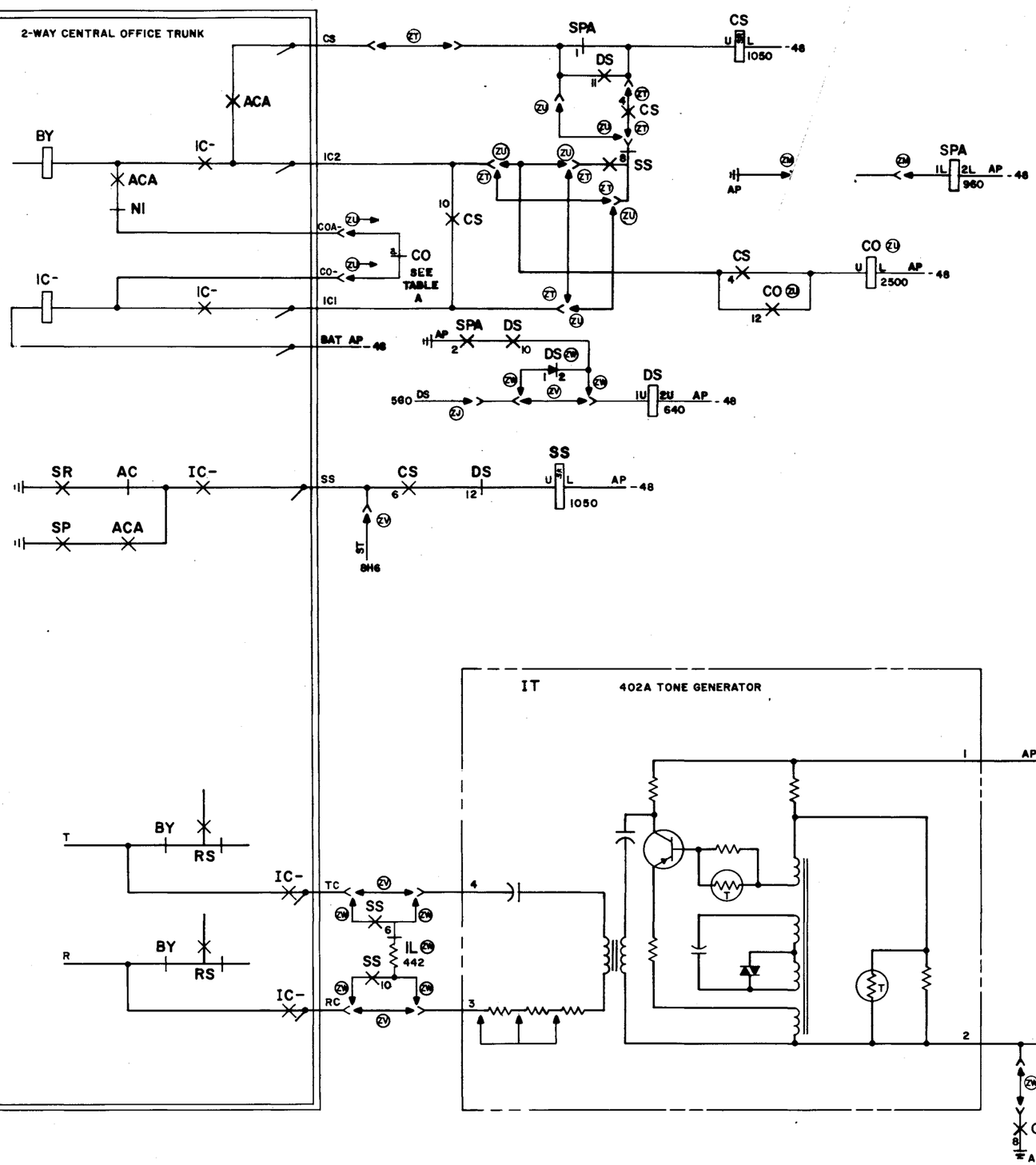

TABLE A

CO TRUNK NO.	LEAD DESIGNATION		CO REL CONT a
0	CO0	COA0	1
1	CO1	COA1	3
2	CO2	COA2	4
3	CO3	COA3	5
4	CO4	COA4	6
5	CO5	COA5	7
6	CO6	COA6	8
7	CO7	COA7	9
8	CO8	COA8	10
9	CO9	COA9	11

DRAWING ISSUE
68 PJS HWB PD
10AC TEP PJS GFH
11B FE FED PJS RHP

HW

CORDLESS POSITION CIRCUIT 2

BELL TELEPHONE LABORATORIES INCORPORATED

DWG SIZE 6S

SD-65757-01-B8

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APP FIG. 1

RELAYS

DESIG					FB AF113				H AF68		NT AG14		SP AF111	
CODE														
OPTION														
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC
12													EM	5G4
11													M	8C3
10					EBM								M	5G0
9					B	a			B	5H0	B		M	
8					EBM				B	5F4	M	a	EBM	1G0
7					B	b			B	5G0	B		B	a
6					EBM	c			EMB	5H4	M	5A6	EMB	b
5					B				B	5G4	B	1G0	M	5H0
4					EBM	d			M	5G4	M	5A7	EBM	c
3					B								M	
2													M	5F4
1													M	5H0
COIL						5H0				5A6		5A8		5G5

a	2D3	7D3
b	2B2	7B2
c	2A2	7A2
d	2C2	7C2

a	2H2	7H2

a	2A2	7A2
b	2C2	7C2
c	2H1	7H1

RESISTOR

DESIG	LOC	CODE
N	1B0	KS-13481,L1, 5100
R	2C2 7C2	188W,100
T	2A2 7A2	188W,100

INDUCTOR

DESIG	LOC	CODE
A	2B2 7B2	274L

CAPACITOR

DESIG	LOC	CODE
BT	6E7	441K,0.1UF

APP FIG. 3

RELAY

DESIG	BZ		BZ1			
CODE	AJ83		AJ83			
OPTION	B		B			
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC
12	EBM	5G6	EBM	6E3		
11	EBM		EBM			
10	EBM	6G4	EBM			
9	EBM	6G4	EBM			
8	EMB	6G4	EMB			
7	EBM	6G4	EBM			
6	EMB	6G4	EMB			
5	EMB	6G4	EMB			
4	EBM	6G4	EBM			
3	EBM	6G4	EBM	6F4		
2	EBM	6G4	EBM	6F4		
1	EBM	6G4	EBM	6F4		
COIL		5E6		5G6		

INDUCTOR

DESIG	LOC	CODE
TB1	2D9 7D9	274L
TB2	2D9 7D9	274L

APP FIG. 5

RELAY

DESIG	HA					
CODE	AF85					
OPTION	A					
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC
12						
11						
10	EBM	5F0				
9	PM					
8						
7						
6	EBM	5A0				
5						
4	PM					
3	M	5F0				
2						
1						
COIL		5G0				

DIODE

DESIG	LOC	CODE
(A) HA	5A0	KS-15724,L2

RESISTOR

DESIG	LOC	CODE
(A) ARB	4E2	196A

APP FIG. 6

HEAD TELEPHONE SET

DESIG	LOC	CODE
	2B9 7D9	52A

APP FIG. 7

HEAD TELEPHONE SET

DESIG	LOC	CODE
	2B9 7D9	53A

APP FIG. 8

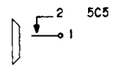
CAPACITOR

DESIG	LOC	CODE
BZ	6E3	441B,0.5UF

APP FIG. 9

KEY

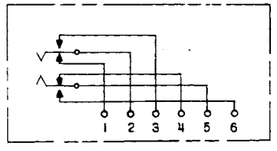
(F) DIAL BACK
551A



APP FIG. 10

KEY

(E) NIGHT SERVICE
601 7B



APP FIG. 13

RELAYS

DESIG	CO		DESIG	CS		SS		SPA		DS	
CODE	AF129		CODE	AG24				AK15			
OPTION	ZU		OPTION								
	CONT ARR	LOC		CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC
12	M	8C4	12							B	8D2
11	B	8C2	11							M	8B2
10	BM	8C2	10	M	8C2	M	8G2			M	8C3
9	B	8C2	9								
8	BM	8C2	8	BM	b	BM	8B2				
7	B	8C2	7								
6	BM	8C2	6	BM	8D2	BM	8G2				
5	B	8C2	5								
4	BM	8C2	4	M	a	M	8D2	M			
3	B	8C2	3					BM			
2	M		2					BM	8C2		
1	B	8C2	1					BM	8A2		
COIL		8C5	COIL		8A3		8D3		8B3		8C2

a	(ZT)	8B3
	(ZU)	8C4
b	5F4	
	8H5	

DIODE

DESIG	LOC	CODE
(ZW) DS	8C3	446F

RESISTOR

DESIG	LOC	CODE
(ZW) 1L	8G2	145C,442

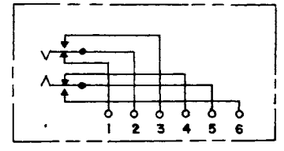
TONE GENERATOR

DESIG	LOC	CODE
1T	8F4	402A

APP FIG. 14

KEY

(ZS) REMOTE ANSWER
601 7B



DRAWING ISSUE

1	WM
2D	WM
4B	WM,
5B	WH
6B	
7D	
8D	RKU SAK KFJ
10AC	TEP PJS BFH

10

CORDLESS POSITION CIRCUIT (2)

BELL TELEPHONE LABORATORIES INCORPORATED

SD-65757-01-CI

6S

SD-65757-01-CI

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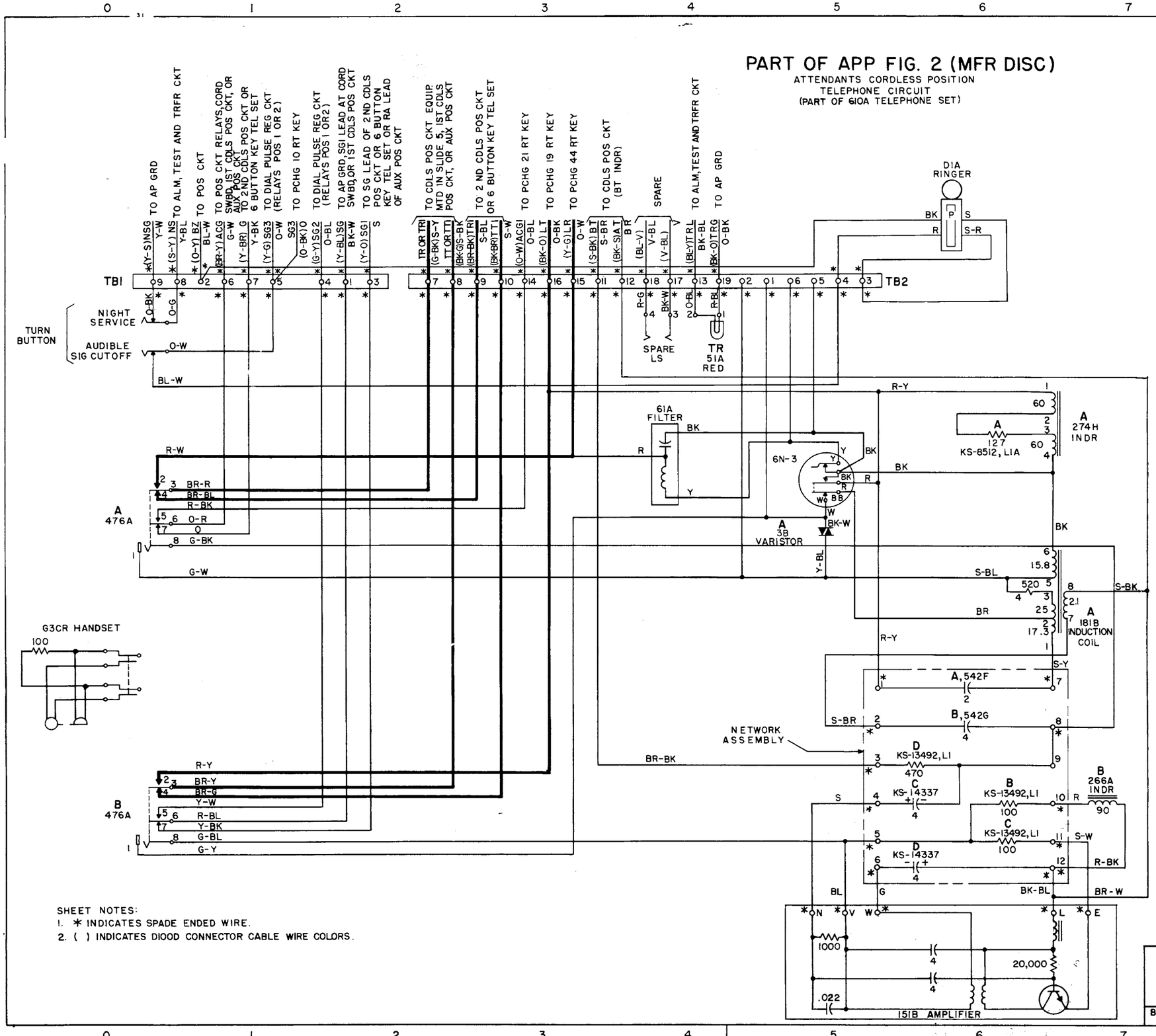
PART OF APP FIG. 2 (MFR DISC)

ATTENDANTS CORDLESS POSITION
TELEPHONE CIRCUIT
(PART OF 610A TELEPHONE SET)



SHEET NOTES:
1. * INDICATES SPADE ENDED WIRE.
2. ( ) INDICATES DIOOD CONNECTOR CABLE WIRE COLORS.

DRAWING ISSUE
1 RKP LHE
4B VDG HM TBB
6B SUM VJ HAE PD
7D WPA VPF KPJ

PMJD

PBX SYSTEMS NO. 756A CORDLESS POSITION CIRCUIT (2)	SD-65757-01-C2
BELL TELEPHONE LABORATORIES INCORPORATED	6S
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PART OF APP FIG. 2 OR 11 (MFR DISC)

CORDLESS POSITION
RIGHT KEY AND LAMP UNIT
(PART OF 610A TELEPHONE SET OR 3A
TELEPHONE CONSOLE)

DRAWING ISSUE
1 M.D. W.M. PoB
4B VOG H.M. TEB
6B SJM MAS PD
PMJD

O-BK(BK-O) LT TO TEL CKT PCHG 16 TS2
O-W (Y-G) LR TO TEL CKT PCHG 15 TS2
R (BL-W) *ACA1 TO TRUNKS
G (W-BL) *TL1
BR-G(W-BR) LG1 TO AP GRD
Y (O-W) *ACA2 TO TRUNKS
BK (W-O) *TL2
BL (G-W) *ACA3
W (W-G) *TL3
V-O(O-V) *NTG TO POS CKT
O (O-BK) SG3 TO TEL CKT PCHG 5 TS1
V-R (V-O) *H TO POS CKT
STRAPS
BK-BL (BL-Y) LT TO CENTER KEY PCHG 19
BK-W (Y-BL) LR TO CENTER KEY PCHG 44
O-BL (O-W)ACG1 TO TEL CKT PCHG 14 TS2
BK-Y (Y-BR) ACG1 TO CENTER KEY PCHG 21
R-W (BR-R)

P2 (610 TYPE)
AMPHENOL
50 PT PLUG
KS-16671, L1

AMPHENOL
50 PT CONNECTOR
KS-16672, L1

19 44 1 12 26 2 27 13 38 3 22 28 4 29 14 39 5 = 30 6 31 15 40 7 36 32 8 33 16 41 9 37 34 10 35 17 42 47 50 49 48 25 24 23 18 43 20 45 21 46

TL 51A WHITE
TL 51A WHITE
TL 51A WHITE
SPARE LS
SPARE LS
SPARE LS

TO TRUNKS
V-O(O-V) *SL1
V-R(V-O) *SL2
V-G(G-V) *SL3

TOP 01 02 03 04 05 06 G — 58A LAMP SOCKET

SL 51A RED
SL 51A RED
SL 51A RED
SPARE LS

1ST PU KEY
2ND PU KEY
3RD PU KEY
DIAL BACK KEY
HOLD KEY
RELEASE KEY
CHAINING SWITCH

598B KEY

SHEET NOTES:
1. * INDICATES LEADS RUN IN CABLE TO CROSS CONNECTING BOX. (SEE NOTE 201)
2. ( ) INDICATES DIOOD CONNECTOR CABLE WIRE COLORS.

SD-65757-01-C3

PBX SYSTEMS
NO. 756A
CORDLESS POSITION CIRCUIT (2)
SD-65757-01-C3
6
BELL TELEPHONE LABORATORIES INCORPORATED
DWG SIZE 6S
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PART OF APP FIG. 2 OR 11 (MFR DISC)

CORDLESS POSITION
CENTER KEY AND LAMP UNIT
(PART OF 610A OR TELEPHONE SET OR 3A
TELEPHONE CONSOLE)

DRAWING ISSUE	
1	M.D. WM
4B	VOG H.M. TEB
6B	SEA ARE PD

PMJD

BK-BL(BL-Y) LT TO RIGHT KEY PCHG 20
BK-W (Y-BL) LR TO RIGHT KEY PCHG 45
STRAPS

TO TRUNKS

BR-R (BR-W)*ACA4
BR-G (W-BR) *TL4
BR-Y(Y-W) *ACA5
BR-BK(W-S) *TL5
BR-BL(BL-R)*ACA6
BR-W(R-BL) *TL6
R-G(O-R) *ACA7
R-Y(R-O) *TL7
R-BK (G-R)*ACA8
R-BL(R-G) *TL8
R-W(BR-R)*ACA9
G-Y(R-BR) *TL9
BR-Y(S-W) *LG2 TO AP GRD
V-GN(G-V) LT TO LEFT KEY PCHG 19
V-O (O-V) LR TO LEFT KEY PCHG 44
BK-Y (Y-BR) ACG1 TO RIGHT KEY PCHG 46
V-R (V-O) ACG1 TO LEFT KEY PCHG 21
STRAPS

R-W(BR-R)

P3 (610 TYPE)
AMPHENOL
50 PT PLUG
KS-16671,L1

AMPHENOL
50 PT CONNECTOR
KS-16672,L1

19 44 1 22 26 2 27 13 38 3 23 28 4 29 14 39 5 24 30 6 31 15 40 7 25 32 8 33 16 41 9 47 34 10 35 17 42 48 49 11 50 36 12 37 18 43 20 45 21 46

TL 51A WHITE

4TH PU KEY | 5TH PU KEY | 6TH PU KEY | 7TH PU KEY | 8TH PU KEY | 9TH PU KEY | CHAINING SWITCH

598A KEY

TO TRUNKS

V-BK (V-G) *SL4
V-BR(BR-V)*SL5
V-W (V-BR) *SL6
V-S (S-V) *SL7
V-Y (V-S) *SL8
R (BL-W) *SL9

TOP 1 2 3 4 5 6 G — 58A LAMP SOCKET

SL 51A RED

SHEET NOTES:
1. * INDICATES LEADS RUN IN CABLE TO CROSS CONNECTING BOX. (SEE NOTE 201)

2. ( ) INDICATES DIOOD CONNECTOR CABLE WIRE COLORS.

PBX SYSTEMS NO. 758A CORDLESS POSITION CIRCUIT (2)	SD-65757-01-C4
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6

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PART OF APP FIG. 2 OR 11 (MFR DISC)

CORDLESS POSITION
(Y) LEFT KEY AND LAMP UNIT
(PART OF 610A TELEPHONE SET OR 3A TELEPHONE CONSOLE)

DRAWING ISSUE		
1	M.D. WM	POB
4B	VDG M.H TEB	
6B	SAM HAL PZ	

V-G (G-V) LT TO CENTER KEY PCHG 20
V-O (O-V) LR TO CENTER KEY PCHG 45
BK-BL (BL-Y) *T10 TO LINE CKT
STRAPS
BK-W (Y-BL) *R10
G-BK(SL-R) *ACA10 TO TRUNK CKT
G-BL (R-S) *TL10
BL-W (S-Y) *T11 TO LINE CKT
S (Y-O) *R11
O-R(BL-BK)*ACA11 TO TRUNK CKT
O-G (BK-BL) *TL11
O-BL (G-Y) *T12 TO LINE CKT
O-W (Y-G) *R12
O (O-BK) *ACA12 TO TRUNK CKT
O-BK(BK-O)*TL12
G-W (BR-Y) *T13 TO LINE CKT
Y-BK (Y-BR) *R13
S-Y(G-BK) *ACA13 TO TRUNK CKT
S-BK(BK-G) *TL13
Y-BL (S-Y) *T14 TO LINE CKT
Y-W (Y-S) *R14
S-BL(BN-BK)* ACA14 TO TRUNK CKT
S-W(BK-BN) *TL14
V-BL (BL-V) *T15 TO LINE CKT
V (V-BL) *R15
S-BR(S-BK)*ACA15 TO TRUNK CKT
BR (BK-S) *TL15
BR-BK (W-S) *LG3 TO AP GRD
V-R (V-O) ACG1 TO CENTER KEY PCHG 46
STRAP
R-W (BR-R)

P4 (610 TYPE) AMPHENOL 50 PT PLUG KS-16671, L1
AMPHENOL 50 PT CONNECTOR KS-16672, L1

19 44 1 22 26 2 27 13 38 3 23 28 4 29 14 39 5 24 30 6 31 15 40 7 25 32 8 33 16 41 9 47 34 10 35 17 42 48 49 11 50 36 12 37 18 43 20 45 21 46

TL 51A WHITE (×15)

10TH PU KEY
11TH PU KEY
12TH PU KEY
13TH PU KEY
14TH PU KEY
15TH PU KEY
CHAINING SWITCH

598A KEY

TO TRUNKS
G (W-BL) *SLI0
Y (O-W) *SLI1
BK (W-O) *SLI2
BL (G-W) *SLI3
W (W-G) *SLI4
BR-R(BR-W)* SLI5

TOP 1 2 3 4 5 6 G — 58A LAMP SOCKET

SL 51A RED (×6)

SHEET NOTES:
1. * INDICATES LEADS RUN IN CABLE TO CROSS CONNECTING BOX. (SEE NOTE 201)
2. ( ) INDICATES DIOOD CONNECTOR CABLE WIRE COLORS.

SD-65757-01-C5

PBX SYSTEMS NO. 756A CORDLESS POSITION CIRCUIT (2)	SD-65757-01-C5
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PART OF APP FIG. 12 (MFR DISC)

DIRECT STATION SELECTION KEYS & BUSY LAMPS
INCLUDED IN 4A TELEPHONE CONSOLE (SEE NOTE 207)

PART OF AMPHENOL 50 PT CONN NO.4 KS-16672,L1

TO D 2000 MTG CORD

T G	W-S	48
T8	BR-R	14
		13
		46
UG	BK-S	16
		17
		18
UO	S-BK	20
		21
UI	R-S	23
		24
U2	8L-BK	26
		27
U3	BK-BL	29
		30
U4	O-BK	32
		33
U5	BK-O	35
		36
U6	G-BK	38
		39
U7	BK-G	41
		42
U8	BR-BK	44
U9	BK-BR	47
		50
		43
		40
T7	R-G	12
T6	G-R	11
		37
T5	R-O	10

8A1

SHEET NOTES:
1. LAMPS AND KEY BUTTONS 90-99 ARE NOT EQUIPPED

50 17 16 20 | 18 23 | 21 26 | 24 29 | 27 32 | 30 35 | 33 38 | 36 41 | 39 44 | 42 47

SEE NOTE 1

90 91 92 93 94 95 96 97 98 99 BR-BL

80 81 82 83 84 85 86 87 88 89 G-BL

70 71 72 73 74 75 76 77 78 79 G-BK

60 61 62 63 64 65 66 67 68 69 G-Y

50 51 52 53 54 55 56 57 58 59 R-R

PART OF TB3

10	BL-R	
9	R-S	B80
8	S-R	B70
7	R-BR	B60
6	BR-R	B50

TO 10V AC LAMP SUPPLY

AMPHENOL 50 PT CONN NO.6 KS-16672,L1

50		
49		
48		
47		
46		
45		
44		
43		
42		
41		
40	V-S	BL-89
39	S-V	BL-88
38	V-BR	BL-87
37	BR-V	BL-86
36	V-G	BL-85
35	G-V	BL-84
34	V-O	BL-83
33	O-V	BL-82
32	V-BL	BL-81
31	BL-V	BL-80
30	Y-S	BL-79
29	S-Y	BL-78
28	Y-BR	BL-77
27	BR-Y	BL-76
26	Y-G	BL-75
25	G-Y	BL-74
24	Y-O	BL-73
23	O-Y	BL-72
22	Y-BL	BL-71
21	BL-Y	BL-70
20	BR-S	BL-69
19	S-BK	BL-68
18	BK-BR	BL-67
17	BR-BK	BL-66
16	BK-G	BL-65
15	G-BK	BL-64
14	BK-O	BL-63
13	O-BK	BL-62
12	BK-BL	BL-61
11	BL-BK	BL-60
10	R-S	BL-59
9	S-R	BL-58
8	R-BR	BL-57
7	BR-R	BL-56
6	R-G	BL-55
5	G-R	BL-54
4	R-O	BL-53
3	O-R	BL-52
2	R-BL	BL-51
1	BL-R	BL-50

TO D 2000 MTG CORD

DRAWING ISSUE
4B YOG HM TED CC
6B HAK PD

6

PBX SYSTEMS
NO. 756A
CORDLESS POSITION CIRCUIT (2)
SD-65757-01-C6

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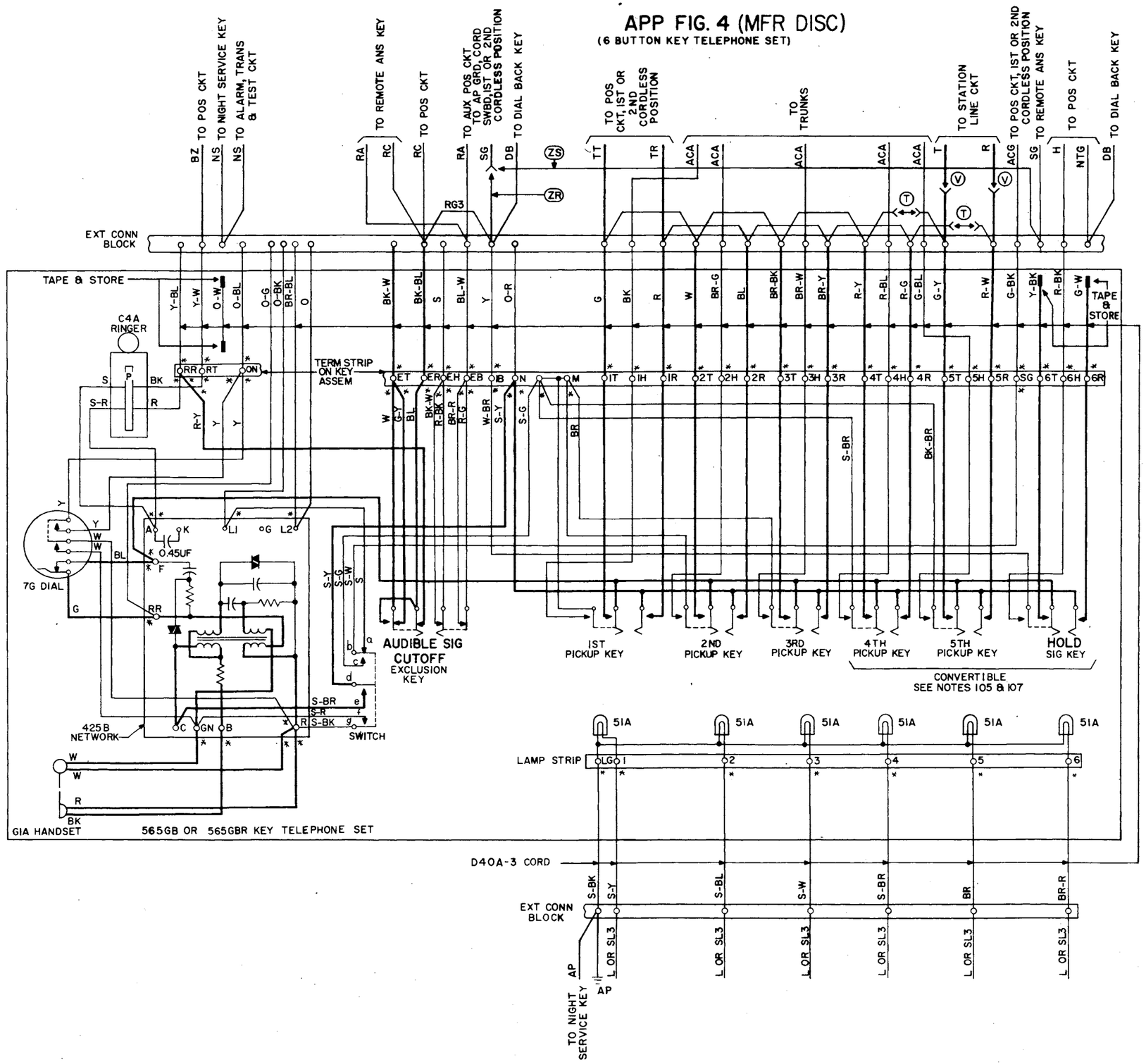
APP FIG. 4 (MFR DISC)

(6 BUTTON KEY TELEPHONE SET)



ASSIGNMENT OF CONDUCTORS IN *CABLE FOR KEY TELEPHONE SET					
LEAD DESIG	PAIR NO.	COND	LEAD DESIG	PAIR NO.	COND
TT	1	W	BZ	12	BK
TR	1	BL			
ACA1	2	W			
SG SEE NOTE 2	2	O	RC	13	G
			RA	14	BR
			AP	16	Y
ACA2	4	W	L1 OR SL3-1	16	BL
NTG	15	BK			
			SPARE	17	Y
			L2 OR SL3-2	17	O
ACA3	6	R			
ACG	10	S	SPARE	18	Y
			L3 OR SL3-3	18	G
ACA4	8	R	SPARE	19	Y
H	8	G	L4 OR SL3-4	19	BR
T	9	R			
R	9	BR	SPARE	20	Y
ACA5	10	R	L5 OR SL3-5	20	S
NS	15	S			
SG SEE NOTE 3	11	BK			

* TYPICAL FOR 21-PAIR INSIDE WIRING CABLE

MODIFICATION OF STANDARD SET

LEAD OR CONDUCTOR COLOR	DISCONNECT FROM TERM.	CONNECT TO TERM.
S (RINGER)	K	A
BK (RINGER)	IT	RT
R (RINGER)	IR	RR
Y (DIAL)	SG	ON
S-G (SWITCH)	L2	M
G-Y (EXC KEY)	IT	ET
R-Y (EXC KEY)	IR	RR
W-BR (6TH KEY)	M	IB

SHEET NOTES:

1. * INDICATES SPADE ENDED WIRE.
2. LEAD DESIGNATION WHEN OPTION ZR IS PROVIDED.
3. LEAD DESIGNATION WHEN OPTION ZS IS PROVIDED.

DRAWING ISSUE

1	AEG WM
4B	VOG H.M. TEB
7D	WFA WFF WFJ
11B	JJR PJS RHP

SD-65757-01-C7

CORDLESS POSITION CIRCUIT (2)

BELL TELEPHONE LABORATORIES INCORPORATED — CIRC. SIZE 6S — PRINTED IN U. S. A.

SD-65757-01-C7 11

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PART OF APP FIG. 12 (MFR DISC)

DIRECT STATION SELECTION KEYS
& BUSY LAMPS
INCLUDED IN 4A TELEPHONE CONSOLE
(SEE NOTE 207)

PART OF AMPHENOL 50 PT CONN NO.4 KS-16672

6H1

T4 O-R → 34, 9
T3 R-BL → 31, 8
T2 BL-R → 28, 7
25, 5
TG W-S → 22
HG S-R → 4
HI R-BR → 3, 2

TO D 200D MTG CORD

PART OF TB3

5	R-G	B40
4	G-R	B30
3	R-O	B20
2	O-R	
1	R-BL	

TO 10V AC LAMP SUPPLY (PMJD)

AMPHENOL 50 PT CONN NO.5 KS-16672,L1

50	W-S	BL-49
49	S-W	BL-48
48	W-BR	BL-47
47	BR-W	BL-46
46	W-G	BL-45
45	G-W	BL-44
44	W-O	BL-43
43	O-W	BL-42
42	W-BL	BL-41
41	BL-W	BL-40
40	V-S	BL-39
39	S-V	BL-38
38	V-BR	BL-37
37	BR-V	BL-36
36	V-G	BL-35
35	G-V	BL-34
34	V-O	BL-33
33	O-V	BL-32
32	V-BL	BL-31
31	BL-V	BL-30
30	Y-S	BL-29
29	S-Y	BL-28
28	Y-BR	BL-27
27	BR-Y	BL-26
26	Y-G	BL-25
25	G-Y	BL-24
24	Y-O	BL-23
23	O-Y	BL-22
22	Y-BL	BL-21
21	BL-Y	BL-20
20		
19		
18		
17		
16		
15		
14		
13		
12		
11		
10		
9		
8		
7		
6		
5		
4		
3		
2		
1		

TO D 200D MTG CORD

40 41 42 43 44 45 46 47 48 49 R-BL
30 31 32 33 34 35 36 37 38 39 R-BK
20 21 22 23 24 25 26 27 28 29 R-Y
SEE NOTE 1 → 10 11 12 13 14 15 16 17 18 19 R-G
SEE NOTE 1 → 00 01 02 03 04 05 06 07 08 09 BR-W

SHEET NOTES:
1. LAMPS AND KEY BUTTONS 00-19 ARE NOT EQUIPPED

DRAWING ISSUE		
4B	VOG	
	HM	
	TEB	
	CC	
6B	HME	
	PD	

6

PBX SYSTEMS
NO. 756A
CORDLESS POSITION CIRCUIT (2)

BELL TELEPHONE LABORATORIES INCORPORATED — DWG SIZE 6S — PRINTED IN U.S.A.

SD-65757-01-C8

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PART OF APP FIG. 11 (MFR DISC)

ATTENDANTS CORDLESS POSITION
TELEPHONE CIRCUIT
(PART OF 3A TELEPHONE CONSOLE)

DRAWING ISSUE
4B
6B
7D

TB1 TB2

TURN BUTTON
NIGHT SERVICE
AUDIBLE SIG CUTOFF

TR 51A RED
SPARE LS
DIA RINGER

61A FILTER
6N-3
A 3B VARISTOR
A 274H INDR
A 127 KS-8512, L1A
A 476A
B 476A
G3CR HANDSET 100
A 181B INDUCTION COIL
NETWORK ASSEMBLY
A, 542F
B, 542G
D KS-13492, L1 470
C KS-14337
B KS-13492, L1 100
B 266A INDR 90
C KS-13492, L1 100
D KS-14337
151E AMPLIFIER
1000
20,000
.022

SHEET NOTES:
1. * INDICATES SPADE ENDED WIRE.
2. ( ) INDICATES DIODD CONNECTOR CABLE WIRE COLORS.

SD-65757-01-C9

PBX SYSTEMS
NO. 756A
CORDLESS POSITION CIRCUIT (2)
BELL TELEPHONE LABORATORIES INCORPORATED
6S
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7

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PART OF APP FIG. 12 (MFR DISC)

ATTENDANTS CORDLESS POSITION
TELEPHONE CIRCUIT
(PART OF 4A TELEPHONE CONSOLE)
(SEE NOTE 207)

DRAWING ISSUE
4B RAH HMS TCB
6B SUM VS MAE PO
7D PFD JFF KSJ

TB2 TB1

TO POS CKT RELAYS, CORD SWBD, IST CDLS POS CKT OR AUX POS CKT — ACG BR-Y
TO 2ND CDLS POS CKT OR 6 BUTTON KEY TEL SET — G Y-BR
TO DIAL PULSE REG CKT (RELAYS POS 1 OR 2) — SG2 G-Y
TO AP GRD, SG1 LEAD AT CORD SWBD, OR IST CDLS POS CKT — SG Y-BL
TO SG LEAD OF 2ND CDLS POS CKT OR 6 BUTTON KEY TEL SET OR RA LEAD OF AUX POS CKT — SG1 Y-O
TO CDLS POS CKT EQUIP MTD IN SLIDE 5, TO IST CDLS POS CKT OR AUX POS CKT — TR OR TR1 G-BK; TT OR TT1 BK-G
TO 2ND CDLS POS CKT OR 6 BUTTON KEY TEL SET — TR1 BR-BK; TT1 BK-BR
TO PCHG 21 RT KEY — ACG1 O-O
TO PCHG 19 RT KEY — LT BK-O
TO PCHG 44 RT KEY — LR Y-G
TO CDLS POS CKT (BT INDR) — BT S-BK; AT BK-S
TO AP GRD — ARBG BL-V
TO POS CKT — ARBI OR ARB2 V-BL
TO ALM, TEST AND TRFR CKT — TRL BL-Y
TO AP GRD — TRG BK-O
TO AP GRD — NSG Y-S
TO ALM, TEST AND TRFR CKT — NS S-Y; SG3 O-BK
TO PCHG 10 RT KEY — BZ O-Y
TO POS CKT — S BK

DIA RINGER — BK P S R S-R

ARB 51A GN — BL-V V-BL
TR 51A RED — BL-Y BR-O
S2 AUDIBLE SIG CUTOFF
S1 NIGHT SERVICE

R-Y

61A FILTER — BK R Y
6N-3 — Y BK R W
A 38 VARISTOR — BK-W
A 274H INDR — 60 2 3 4
A 127 KS-8512, L1A
A 476A — O-R; G-BK; BR-BK; O-O; BR-Y; Y-BR; G; S-BL
B 476A — R-R; BK-G; BK-BR; G-Y; Y-BL; Y-Q; G-BL; W
G3CR HANDSET — 100
A 181B INDUCTION COIL — 15.8; 520; 25; 17.3; 2.1; BR; R-Y; S-BK
A, 542F — S-Y
B, 542G — S-BR
NETWORK ASSEMBLY
D KS-13492, L1 — 470 — BR-BK
C KS-14337 — 4 — S
B KS-13492, L1 — 100
B 266A INDR — 90 — R
C KS-13492, L1 — 100 — S-S
D KS-14337 — 4 — BL; G; BK-BL; R-BK; S-BK
BR-BR; BR-BK
1000; 4; 20,000; .022
151E AMPLIFIER — N V W L E S

SHEET NOTES:
1. * INDICATES SPADE ENDED WIRE.

7

PBX SYSTEMS
NO. 756A
CORDLESS POSITION CIRCUIT (2)
BELL TELEPHONE LABORATORIES INCORPORATED 6S
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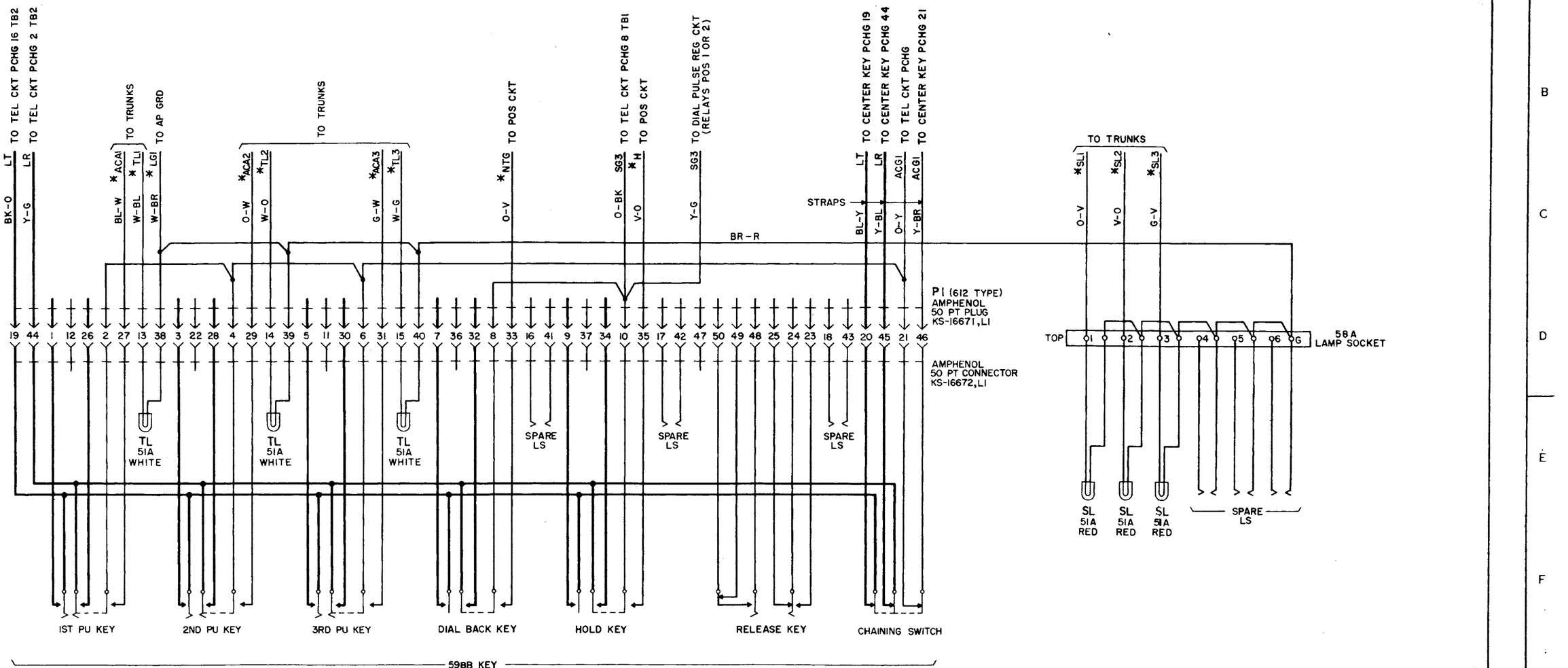
PART OF APP FIG. 12 (MFR DISC)

CORDLESS POSITION
RIGHT KEY AND LAMP UNIT
(PART OF 4A TELEPHONE CONSOLE)
(SEE NOTE 207)

DRAWING ISSUE
4B R.A.R. H.M. T.E.B.
6B SUN M. HAE P.D.



SHEET NOTES:
1. * INDICATES LEADS RUN IN CABLE TO CROSS CONNECTING BOX. (SEE NOTE 202)

SD-65757-01-C11

PBX SYSTEMS
NO. 756A
CORDLESS POSITION CIRCUIT (2)
SD-65757-01-C11
BELL TELEPHONE LABORATORIES INCORPORATED
FORM 6S

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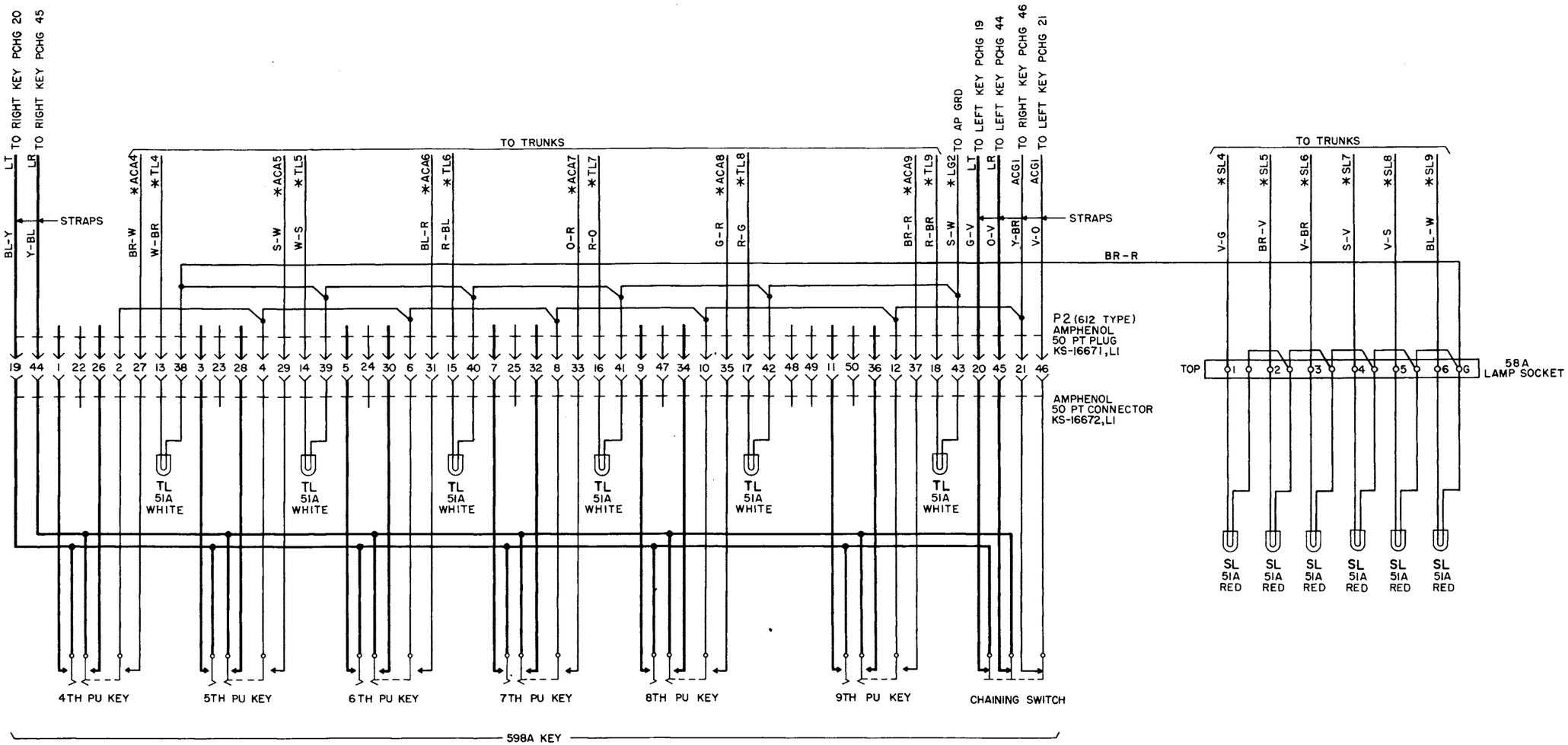
PART OF APP FIG. 12 (MFR DISC)

CORDLESS POSITION
CENTER KEY AND LAMP UNIT
(PART OF 4A TELEPHONE CONSOLE)
(SEE NOTE 207)



SHEET NOTES:
1. * INDICATES LEADS RUN IN CABLE TO CROSS CONNECTING BOX. (SEE NOTE 202)

DRAWING ISSUE
4B
68
PMJD

SD-65757-01-C12

PBX SYSTEMS
NO. 756A
CORDLESS POSITION CIRCUIT (2)
SD-65757-01-C12
6
BELL TELEPHONE LABORATORIES INCORPORATED
6S

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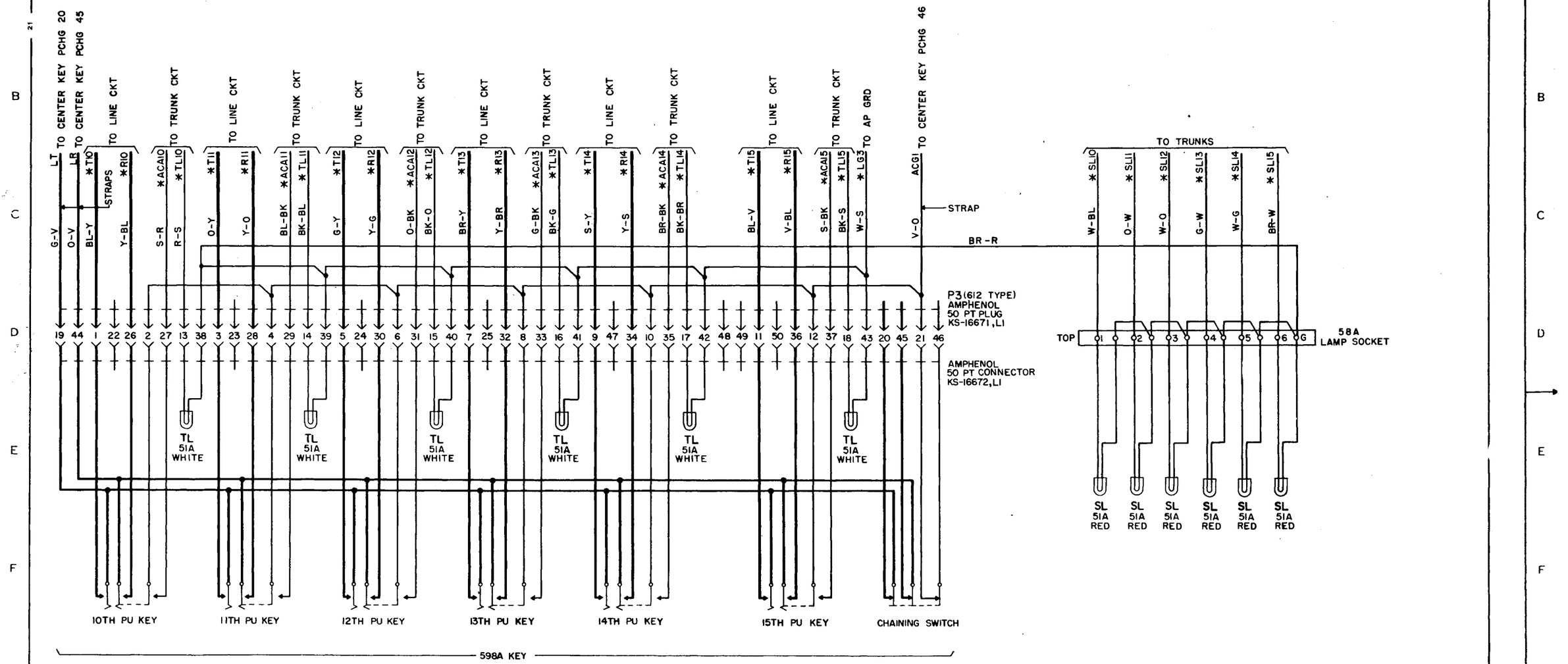
PART OF APP FIG. 12 (MFR DISC)

CORDLESS POSITION
Ⓨ LEFT KEY AND LAMP UNIT
(PART OF 4A TELEPHONE CONSOLE)
(SEE NOTE 207)



SHEET NOTES:
1. ✱INDICATES LEADS RUN IN CABLE TO CROSS CONNECTING BOX. (SEE NOTE 202)

SD-65757-01-C13

DRAWING ISSUE		
4B	RAH	H.M.
	TEB	
6B	SUM	JS
	MAB	
	PD	

PBX SYSTEMS NO. 756A CORDLESS POSITION CIRCUIT (2)	6 SD-65757-01-C13
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CIRCUIT NOTES:

101.

DESIG	FUSE AMP	POTENTIAL	ONE PER	TERM. DESIG
AP	1-1/3	-48V SIG	APP FIG. 1,3	
AP*		GROUND	APP FIG. 1,3	

* AP GROUND IS PART OF THE COMMON GROUND GROUP IN CROSS CONNECT BOX.

BATTERY SYMBOL	VOLTAGE RANGE
-48	45-50V

102.

FEATURE OR OPTION				PROVIDE APP FIG.	PROVIDE APP OR WRG	PROVIDE QUANTITY
				1,3,5 6,13	A,5	1 PER PBX
CORDLESS POSITION CIRCUIT	USED WITH	3C CONSOLE			ZG	MAX 2 PER PBX SEE NOTE 206
		4B CONSOLE			ZH	
	WITH BUSY VERIFICATION AUXILIARY TRUNK				ZK, ZZ	
REMOTE TRUNK ANSWERING	6 BUTTON KEY TEL SET PROVIDED (SEE NOTE 113)				ZO	
	1ST CONSOLE PROVIDED, NO 6 BUTTON KEY TEL SET				ZO,ZP, ZQ	
	2ND CONSOLE PROVIDED, NO 6 BUTTON KEY TEL SET				ZO,ZQ	
	NOT PROVIDED				ZN	
CORD SWBD	REQUIRED				M	
	NOT REQUIRED				K	
USED WITH 6 BUTTON KEY TEL SET SEE NOTE 108	ALONE (5 TRUNKS OR LESS)				Q, S, ZX, K	
	WITH CORD SWBD				Q,S,ZX	
	WITH 1ST CONSOLE				S,ZX	
	WITH 2ND CONSOLE				ZX	
	5TH PU KEY ARRANGED TO CONNECT TO	LINE CKT			V	
		TRK CKT			T	
	EXTERNALLY MOUNTED KEYS	REMOTE ANSWER KEY	NOT REQD		ZR	
			REQD	14	ZS	1 PER PBX WHEN REQD
		DIAL BACK KEY		9	F	
		NIGHT SERVICE KEY		10	E	
HEADSET				6 OR 7		1 PER CONSOLE
NIGHT SERVICE NOT REQUIRED					W	
STATION DIAL TRANSFER					ZF	

103.

NETWORK VALUES		
NETWORK NO.	RESISTANCE IN OHMS	CAPACITANCE IN UF

CIRCUIT NOTES (CONT):

104.

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	USE IN CIRCUIT A&M	USE IN CIRCUIT MD	
2D	B	ZC		B		ZC	
4B	A	NONE		A			
4B						FIG.2	
4B				FIG. 11 & 12			
5B	ZE OR ZD	ZD		ZE		ZD	
6B	ZG,ZH	N,X,Y, FIG. 11 & 12		ZG,ZH		N,X,Y, FIG. 11 & 12	
	ZK	NONE		ZK			
	ZL OR ZM, FIG. 13	ZL	110	ZM, FIG. 13		ZL	
	ZJ	NONE	110, 111	ZJ			
7D			112			G	
	ZN OR ZO	ZN		ZN,ZO			
	ZP,ZQ	NONE		ZP,ZQ			
	ZR OR ZS	ZR		ZR,ZS			
	FIG. 14	NONE		FIG. 14			
	ZF	NONE	114	ZF			
10 AC	ZT OR ZU	ZT	115	ZU		ZT	
10 AC	ZV OR ZW	ZV	116	ZW		ZV	
11B	ZX	R FIG 4	209 210	ZX		R FIG 4	
12D			102	ZY			
13D	ZZ	ZY	102	ZZ		ZY	

105. TO CONVERT 6TH PICKUP TO SIGNAL KEY OPERATION REMOVE SCREW DETAIL P-12A892 FROM THE PLUNGER.

106. G,K,M,N,Q,R,S,W,X,Y, ZP, ZQ, ZR, AND ZS OPTIONS ARE APPLIED AT THE CROSS-CONN BOX.

107. T & V OPTIONS ARE APPLIED AT THE 6 BUTTON KEY TEL SET.

108. ONLY ONE NIGHT SERVICE KEY SHALL BE CONNECTED.

109. (MFR DISC) THE FOLLOWING INFORMATION APPLIES TO THE 3A AND 4A TELEPHONE CONSOLES AND 610A TELEPHONE SET:

FEATURE OR OPTION			PROVIDE APP FIG.	PROVIDE APP OR WRG	PROVIDE QUANTITY
610A TEL SET OR 3A CONSOLE WITHOUT DIRECT STATION SELECTION SEE NOTE 108	1ST	9 PU KEYS	2, OR 11	X	MAX 2 PER PBX AS REQD SEE NOTE 207
		15 PU KEYS		X,Y	
	2ND	9 PU KEYS		N	
		15 PU KEYS		N,Y	
4A CONSOLE WITH DIRECT STATION SELECTION SEE NOTE 108	1ST	9 PU KEYS	12	X	
		15 PU KEYS		X,Y	
	2ND	9 PU KEYS		N	
		15 PU KEYS		N,Y	

110. WHEN MODIFYING EXISTING JOBS FOR INDICATION OF CAMPED-ON CALL TO BUSY STATION, PROVIDE BOTH APP FIG. 13 AND OPTION ZM AND OPTION ZJ IF REQUIRED.

111. PROVIDE OPTION ZJ WHEN OPTION A IS PROVIDED.

112. PROVIDE OPTION G WHEN CONSOLE IS TO BE USED AND THE REGISTER IS ARRANGED FOR NEITHER DC KEY PULSING NOR DSS BY ATTENDANT.

113. REQUIRES REMOTE ANSWER KEY AT 6 BUTTON KEY TEL SET.

114. WHEN MODIFING EXISTING JOBS FOR STATION DIAL TRANSFER PROVIDE OPTION ZF.

115. OPTION ZU IS REQUIRED ON EXISTING JOBS WHEN INDICATION OF CAMPED-ON CALL TO BUSY LINE IS SPECIFIED.

116. OPTION ZW IS REQUIRED ON EXISTING JOBS WHEN DIRECT STATION SELECTION IS USED BY THE ATTENDANT AND INDICATION OF CAMPED-ON, CALL TO A BUSY LINE IS SPECIFIED.

EQUIPMENT NOTES (CONT):

205. FOR DIAL PULSE OPERATION 3A AND 4A TELEPHONE CONSOLES ARE EQUIVALENT TO 3C AND 4B TELEPHONE CONSOLES AND MAY BE USED INTERCHANGEABLY.

206. THE 3C AND 4B TELEPHONE CONSOLES ARE TO BE ORDERED SEPARATELY AS FOLLOWS:

CODE	PROVIDED WITH
3C1	9 PU KEYS ROT DIAL
3C2	15 PU KEYS ROT DIAL
3C3	9 PU KEYS TT DIAL
3C4	15 PU KEYS TT DIAL
4B1	9 PU KEYS ROT DIAL DSS FIELD
4B2	15 PU KEYS ROT DIAL DSS FIELD
4B3	9 PU KEYS TT DIAL DSS FIELD
4B4	15 PU KEYS TT DIAL DSS FIELD

CONSOLE CODE	CUSTOMER	RATING
3C- 4B-	ASSOC.COMPANY	PROPOSED AT&TCO STANDARD
3CW- 48W-	NON ASSOC. COMPANY	DISTRIBUTOR STANDARD U.S. GOVT ONLY

207. CODE OF 610B TELEPHONE SET WAS CHANGED TO 3A TELEPHONE CONSOLE. CODE OF 612A TELEPHONE SET WAS CHANGED TO 4A TELEPHONE CONSOLE.

208. FOR 3 TYPE TELEPHONE CONSOLES USE A50B CONNECTOR CABLE. FOR 4 TYPE TELEPHONE CONSOLES USE A100C CONNECTOR CABLE.

209 THE 565GK ROTARY DIAL 6 BUTTON KEY TELEPHONE SETS OR 1565GK TOUCH-TONE 6 BUTTON KEY TELEPHONE SETS AND LINE EXCLUSION KEY ARE TO BE ORDERED SEPARATELY.

210 SEE SHEET D7 FOR INFORMATION

DRAWING ISSUE	
6B	ZUM RJA WAE PD
7D	WPM JFF MPS HW
10AC	TEF PJS RFH
11B	JJR PJG RHP
12D	FED PJS RHP
13D	TEF PJS RHP

13

CORDLESS POSITION CIRCUIT (2)

SD-65757-01-01

BELL TELEPHONE LABORATORIES INCORPORATED

SIZE 6S

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EQUIPMENT NOTES:

201. CORD CONNECTIONS 27 GAUGE STRANDED WIRE FOR 3A TELEPHONE CONSOLE

AMPHENOL PLUG, TS, OR LAMP STRIP TERMINAL IN SET SEE NOTE 302, FIG. 7			LEAD DESIGNATIONS	D100A CORD CONDUCTOR COLOR (WHITE BINDER) (MFR DISC)	D100D CORD CONDUCTOR COLOR (BLUE BINDER) (MFR DISC)	CORD PAIR	AMPHENOL 57-TYPE 50 POINT PLUG TERM. OUT OF SET	A50B CONN CA (BLUE BINDER) SEE NOTE 304
SHEET NO.	PLUG, TS NO., OR LAMP STRIP POS	TERM.						
C3	PLUG 2	27	ACA1	R	BL-W	1	1	BL-W
	PLUG 2	13	TL1	G	W-BL		26	W-BL
	PLUG 2	29	ACA2	Y	O-W	2	2	O-W
	PLUG 2	14	TL2	BK	W-O		27	W-O
	PLUG 2	31	ACA3	BL	G-W	3	3	G-W
	PLUG 2	15	TL3	W	W-G		28	W-G
C4	PLUG 3	27	ACA4	BR-R	BR-W	4	4	BR-W
	PLUG 3	13	TL4	BR-G	W-BR		29	W-BR
	PLUG 3	29	ACA5	BR-Y	S-W	5	5	S-W
	PLUG 3	14	TL5	BR-BK	W-S		30	W-S
	PLUG 3	31	ACA6	BR-BL	BL-R	6	6	BL-R
	PLUG 3	15	TL6	BR-W	R-BL		31	R-BL
	PLUG 3	33	ACA7	R-G	O-R	7	7	O-R
	PLUG 3	16	TL7	R-Y	R-O		32	R-O
	PLUG 3	35	ACA8	R-BK	G-R	8	8	G-R
	PLUG 3	17	TL8	R-BL	R-G		33	R-G
	PLUG 3	37	ACA9	R-W	BR-R	9	9	BR-R
	PLUG 3	18	TL9	G-Y	R-BR		34	R-BR
C5	PLUG 4	27	ACA10	G-BK	S-R	10	10	S-R
	PLUG 4	13	TL10	G-BL	R-S		35	R-S
	PLUG 4	29	ACA11	O-R	BL-BK	11	11	BL-BK
	PLUG 4	14	TL11	O-G	BK-BL		36	BK-BL
	PLUG 4	31	ACA12	O	O-BK	12	12	O-BK
	PLUG 4	15	TL12	O-BK	BK-O		37	BK-O
	PLUG 4	33	ACA13	S-Y	G-BK	13	13	G-BK
	PLUG 4	16	TL13	S-BK	BK-G		38	BK-G
	PLUG 4	35	ACA14	S-BL	BR-BK	14	14	BR-BK
	PLUG 4	17	TL14	S-W	BK-BR		39	BK-BR
	PLUG 4	37	ACA15	S-BR	S-BK	15	15	S-BK
	PLUG 4	18	TL15	BR	BK-S		40	BK-S
	PLUG 4	1	T10	BK-BL	BL-Y	16	16	BL-Y
	PLUG 4	26	R10	BK-W	Y-BL		41	Y-BL
	PLUG 4	3	T11	BL-W	O-Y	17	17	O-Y
	PLUG 4	28	R11	S	Y-O		42	Y-O
	PLUG 4	5	T12	O-BL	G-Y	18	18	G-Y
	PLUG 4	30	R12	O-W	Y-G		43	Y-G
	PLUG 4	7	T13	G-W	BR-Y	19	19	BR-Y
	PLUG 4	32	R13	Y-BK	Y-BR		44	Y-BR
	PLUG 4	9	T14	Y-BL	S-Y	20	20	S-Y
	PLUG 4	34	R14	Y-W	Y-S		45	Y-S
	PLUG 4	11	T15	V-BL	BL-V	21	21	BL-V
	PLUG 4	36	R15	V	V-BL		46	V-BL
C3	RT LP STR	1	SL1	V-O	O-V	22	22	O-V
	RT LP STR	2	SL2	V-R	V-O		47	V-O
	RT LP STR	3	SL3	V-G	G-V	23	23	G-V
C4	CTR LP STR	1	SL4	V-BK	V-G		48	V-G
	CTR LP STR	2	SL5	V-BR	BR-V	24	24	BR-V
	CTR LP STR	3	SL6	V-W	V-BR		49	V-BR
	CTR LP STR	4	SL7	V-S	S-V	25	25	S-V
	CTR LP STR	5	SL8	V-Y	V-S		50	V-S

NOTES:

1. LOW NUMBERED TERMINALS ARE CLOSEST TO THE CORD BUTT.

2. RT LPST G BR-R STRAP TO P2 TERM. 40
CTR LPSTR G BR-R STRAP TO P3 TERM. 38
LT LPST G BR-R STRAP TO P4 TERM. 38

AMPHENOL PLUG, TS, OR LAMP STRIP TERMINAL IN SET SEE NOTE 302, FIG. 7			LEAD DESIGNATIONS	D100A CORD CONDUCTOR COLOR (RED BINDER) (MFR DISC)	D100D CORD CONDUCTOR COLOR (ORANGE BINDER) (MFR DISC)	CORD PAIR	AMPHENOL 57-TYPE 50 POINT PLUG TERM. OUT OF SET	A50B CONN CA (ORANGE BINDER) SEE NOTE 304
SHEET NO.	PLUG, TS NO., OR LAMP STRIP POS	TERM.						
C4	CTR LP STR	6	SL9	R	BL-W	26	1	BL-W
C5	LT LP STR	1	SL10	G	W-BL		26	W-BL
	LT LP STR	2	SL11	Y	O-W	27	2	O-W
	LT LP STR	3	SL12	BK	W-O		27	W-O
	LT LP STR	4	SL13	BL	G-W	28	3	G-W
	LT LP STR	5	SL14	W	W-G		28	W-G
	LT LP STR	6	SL15	BR-R	BR-W	29	4	BR-W
C3	PLUG 2	38	LG1	BR-G	W-BR		29	W-BR
C4	PLUG 3	43	LG2	BR-Y	S-W	30	5	S-W
C5	PLUG 4	43	LG3	BR-BK	W-S		30	W-S
C6		*	SPARE	BR-BL	BL-R	31	6	BL-R
		*	SPARE	BR-W	R-BL		31	R-BL
		*	SPARE	R-G	O-R	32	7	O-R
		*	SPARE	R-Y	R-O		32	R-O
		*	SPARE	R-BK	G-R	33	8	G-R
		*	SPARE	R-BL	R-G		33	R-G
		*	SPARE	R-W	BR-R	34	9	BR-R
		*	SPARE	G-Y	R-BR		34	R-BR
		*	SPARE	G-BK	S-R	35	10	S-R
		*	SPARE	G-BL	R-S		35	R-S
		*	SPARE	O-R	BL-BK	36	11	BL-BK
		*	SPARE	O-G	BK-BL		36	BK-BL
		*	SPARE	O	O-BK	37	12	O-BK
C2 OR C9	TB2	19	TRG	O-BK	BK-O		37	BK-O
	TB2	7	TR	S-Y	G-BK	38	13	G-BK
	TB2	8	TT	S-BK	BK-G		38	BK-G
	TB2	9	TR1	S-BL	BR-BK	39	14	BR-BK
	TB2	10	TT1	S-W	BK-BR		39	BK-BR
	TB2	11	BT	S-BR	S-BK	40	15	S-BK
	TB2	12	AT	BR	BK-S		40	BK-S
	TB2	13	TRL	BK-BL	BL-Y	41	16	BL-Y
	TB1	1	SG	BK-W	Y-BL		41	Y-BL
	TB1	2	BZ	BL-W	O-Y	42	17	O-Y
	TB1	3	SG1	S	Y-O		42	Y-O
	TB1	4	SG2	O-BL	G-Y	43	18	G-Y
	TB1**	5	SG3	O-W	Y-G		43	Y-G
	TB1	6	ACG	G-W	BR-Y	44	19	BR-Y
	TB1	7	G	Y-BK	Y-BR		44	Y-BR
	TB1	8	NS	Y-BL	S-Y	45	20	S-Y
	TB1	9	NSG	Y-W	Y-S		45	Y-S
	TB2	18	SPARE LS	V-BL	BL-V	46	21	BL-V
	TB2	17	SPARE LS	V	V-BL		46	V-BL
C3	PLUG 2	33	NTG	V-O	O-V	47	22	O-V
	PLUG 2	35	H	V-R	V-O		47	V-O
		*	SPARE	V-G	G-V	48	23	G-V
		*	SPARE	V-BK	V-G		48	V-G
		*	SPARE	V-BR	BR-V	49	24	BR-V
		*	SPARE	V-W	V-BR		49	V-BR
		*	SPARE	V-S	S-V	50	25	S-V
		*	SPARE	V-Y	V-S		50	V-S

LOW NUMBERED TERMINALS ARE CLOSEST TO THE CORD BUTT.

*SPARE CONDUCTORS SHALL BE CUT DEAD, INSULATED AND OF SUFFICIENT LENGTH TO REACH FURTHEST TERMINAL IN SET.

**IN D100D CORD SG3 LEAD TERMINATES IN P2 TERM. 8 AND STRAPS TO P2 TERM. 10 WHICH IS STRAPPED TO TB1 TERM. 5.

DRAWING ISSUE
GB SEA HAE ED.
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6

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EQUIPMENT NOTES (CONT):

202. CORD CONNECTIONS 27 GAUGE STRANDED WIRE FOR 4A TELEPHONE CONSOLE

BLUE BINDER

AMPHENOL PLUG, TS OR LAMP STRIP TERMINAL IN SET SEE NOTE 303, FIG. 7			LEAD DESIGNATIONS	D200D CORD CONDUCTOR COLOR	CORD PAIR	AMPHENOL 57-TYPE 50 POINT PLUG TERM. OUT OF SET	A100C CONNECTOR CABLE SEE NOTE 304
SHEET NO.	PLUG, TS NO. OR LAMP STRIP POS	TERM					
C11	PLUG 1	27	ACA1	BL - WH	1	1	BL — WH
	PLUG 1	13	TL1	WH - BL		26	WH — BL
	PLUG 1	29	ACA2	OR - WH	2	2	OR — WH
	PLUG 1	14	TL2	WH - OR		27	WH — OR
	PLUG 1	31	ACA3	GN - WH	3	3	GN — WH
	PLUG 1	15	TL3	WH - GN		28	WH — GN
C12	PLUG 2	27	ACA4	BR - WH	4	4	BR — WH
	PLUG 2	13	TL4	WH - BR		29	WH — BR
	PLUG 2	29	ACA5	SL - WH	5	5	SL — WH
	PLUG 2	14	TL5	WH - SL		30	WH — SL
	PLUG 2	31	ACA6	BL - RD	6	6	BL — RD
	PLUG 2	15	TL6	RD - BL		31	RD — BL
	PLUG 2	33	ACA7	OR - RD	7	7	OR — RD
	PLUG 2	16	TL7	RD - OR		32	RD — OR
	PLUG 2	35	ACA8	GN - RD	8	8	GN — RD
	PLUG 2	17	TL8	RD - GN		33	RD — GN
	PLUG 2	37	ACA9	BR - RD	9	9	BR — RD
	PLUG 2	18	TL9	RD - BR		34	RD — BR
C13	PLUG 3	27	ACA10	SL - RD	10	10	SL — RD
	PLUG 3	13	TL10	RD - SL		35	RD — SL
	PLUG 3	29	ACA11	BL - BK	11	11	BL — BK
	PLUG 3	14	TL11	BK - BL		36	BK — BL
	PLUG 3	31	ACA12	OR - BK	12	12	OR — BK
	PLUG 3	15	TL12	BK - OR		37	BK — OR
	PLUG 3	33	ACA13	GN - BK	13	13	GN — BK
	PLUG 3	16	TL13	BK - GN		38	BK — GN
	PLUG 3	35	ACA14	BR - BK	14	14	BR — BK
	PLUG 3	17	TL14	BK - BR		39	BK — BR
	PLUG 3	37	ACA15	SL - BK	15	15	SL — BK
	PLUG 3	18	TL15	BK - SL		40	BK — SL
	PLUG 3	1	T10	BL - YEL	16	16	BL —YEL
	PLUG 3	26	R10	YEL - BL		41	YEL— BL
	PLUG 3	3	T11	OR - YEL	17	17	OR —YEL
	PLUG 3	28	R11	YEL - OR		42	YEL— OR
	PLUG 3	5	T12	GN - YEL	18	18	GN —YEL
	PLUG 3	30	R12	YEL - GN		43	YEL— GN
	PLUG 3	7	T13	BR - YEL	19	19	BR —YEL
	PLUG 3	32	R13	YEL - BR		44	YEL— BR
	PLUG 3	9	T14	SL - YEL	20	20	SL —YEL
	PLUG 3	34	R14	YEL - SL		45	YEL— SL
	PLUG 3	11	T15	BL - VIO	21	21	BL —VIO
	PLUG 3	36	R15	VIO - BL		46	VIO— BL
C11	RT LP STR	1	SL1	OR - VIO	22	22	OR — VIO
	RT LP STR	2	SL2	VIO - OR		47	VIO— OR
	RT LP STR	3	SL3	GN - VIO	23	23	GN — VIO
C12	CTR LP STR	1	SL4	VIO - GN		48	VIO— GN
	CTR LP STR	2	SL5	BR - VIO	24	24	BR — VIO
	CTR LP STR	3	SL6	VIO - BR		49	VIO — BR
	CTR LP STR	4	SL7	SL - VIO	25	25	SL — VIO
	CTR LP STR	5	SL8	VIO - SL		50	VIO — SL

LOW NUMBERED TERMINALS ARE CLOSEST TO THE CORD BUTT.

ORANGE BINDER

AMPHENOL PLUG, TS OR LAMP STRIP TERMINAL IN SET SEE NOTE 303, FIG. 7			LEAD DESIGNATIONS	D200D CORD CONDUCTOR COLOR	CORD PAIR	AMPHENOL 57-TYPE 50 POINT PLUG TERM. OUT OF SET	A100C CONNECTOR CABLE SEE NOTE 304
SHEET NO.	PLUG, TS NO. OR LAMP STRIP POS	TERM					
C12	CTR LP STR	6	SL9	BL - WH	26	1	BL — WH
C13	LT LP STR	1	SL10	WH - BL		26	WH — BL
	LT LP STR	2	SL11	OR - WH	27	2	OR — WH
	LT LP STR	3	SL12	WH - OR		27	WH — OR
	LT LP STR	4	SL13	GN - WH	28	3	GN — WH
	LT LP STR	5	SL14	WH - GN		28	WH — GN
	LT LP STR	6	SL15	BR - WH	29	4	BR — WH
C11	PLUG 1	38	LG1	WH - BR		29	WH — BR
C12	PLUG 2	43	LG2	SL - WH	30	5	SL — WH
C13	PLUG 3	43	LG3	WH - SL		30	WH — SL
C6	TB3	10	SPARE	BL - RD	31	6	BL — RD
C8	TB3	1	SPARE	RD - BL		31	RD — BL
	TB3	2	SPARE	OR - RD	32	7	OR — RD
	TB3	3	B20	RD - OR		32	RD — OR
	TB3	4	B30	GN - RD	33	8	GN — RD
	TB3	5	B40	RD - GN		33	RD — GN
C6	TB3	6	B50	BR - RD	34	9	BR — RD
	TB3	7	B60	RD - BR		34	RD — BR
	TB3	8	B70	SL - RD	35	10	SL — RD
	TB3	9	B80	RD - SL		35	RD — SL
		*	SPARE	BL - BK	36	11	BL — BK
		*	SPARE	BK - BL		36	BK — BL
		*	SPARE	OR - BK	37	12	OR — BK
C10	TB1	14	TRG	BK - OR		37	BK — OR
	TB2	3	TR	GN - BK	38	13	GN — BK
	TB2	12	TT	BK - GN		38	BK — GN
	TB2	4	TR1	BR - BK	39	14	BR — BK
	TB2	11	TT1	BK - BR		39	BK — BR
	TB1	3	BT	SL - BK	40	15	SL — BK
	TB1	4	AT	BK - SL		40	BK — SL
	TB1	13	TRL	BL - YEL	41	16	BL —YEL
	TB2	9	SG	YEL - BL		41	YEL— BL
	TB1	2	BZ	OR - YEL	42	17	OR —YEL
	TB2	8	SG1	YEL - OR		42	YEL— OR
	TB2	10	SG2	GN - YEL	43	18	GN —YEL
C11	PLUG 1	10	SG3	YEL - GN		43	YEL— GN
C10	TB2	6	ACG	BR - YEL	44	19	BR —YEL
	TB2	7	G	YEL - BR		44	YEL— BR
	TB1	10	NS	SL - YEL	45	20	SL —YEL
	TB1	9	NSG	YEL - SL		45	YEL— SL
	TB1	11	ARBG	BL - VIO	46	21	BL —VIO
	TB1	12	ARB-	VIO - BL		46	VIO — BL
C11	PLUG 1	33	NTG	OR - VIO	47	22	OR — VIO
	PLUG 1	35	H	VIO - OR		47	VIO — OR
		*	SPARE	GN - VIO	48	23	GN — VIO
		*	SPARE	VIO - GN		48	VIO — GN
		*	SPARE	BR - VIO	49	24	BR — VIO
		*	SPARE	VIO - BR		49	VIO — BR
		*	SPARE	SL - VIO	50	25	SL — VIO
		*	SPARE	VIO - SL		50	VIO — SL

LOW NUMBERED TERMINALS ARE CLOSEST TO THE CORD BUTT.

*SPARE CONDUCTORS SHALL BE CUT DEAD, INSULATED AND OF SUFFICIENT LENGTH TO REACH FURTHEST TERMINAL IN SET.

DRAWING ISSUE	
4B	RAH W.M. TEB BAP
6B	WPP MW RFS

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EQUIPMENT NOTES (CONT.):

202. (CONT.)

GREEN BINDER

AMPHENOL PLUG, TS OR LAMP STRIP TERMINAL IN SET SEE NOTE 303, FIG. 7			LEAD DESIGNATIONS	D200D CORD CONDUCTOR COLOR	CORD PAIR	AMPHENOL 57-TYPE 50 POINT PLUG TERM. OUT OF SET	A100C CONNECTOR CABLE SEE NOTE 304
SHEET NO.	PLUG, TS NO., OR LAMP STRIP POS	TERM.					
		*	SPARE	BL-WH	51	1	BL-WH
		*	SPARE	WH-BL		26	WH-BL
		*	SPARE	OR-WH	52	2	OR-WH
		*	SPARE	WH-OR		27	WH-OR
		*	SPARE	GN-WH	53	3	GN-WH
		*	SPARE	WH-GN		28	WH-GN
		*	SPARE	BR-WH	54	4	BR-WH
		*	SPARE	WH-BR		29	WH-BR
		*	SPARE	SL-WH	55	5	SL-WH
C8	PLUG 4	48	TG	WH-SL		30	WH-SL
	PLUG 4	7	T2	BL-RD	56	6	BL-RD
	PLUG 4	8	T3	RD-BL		31	RD-BL
	PLUG 4	9	T4	OR-RD	57	7	OR-RD
C6	PLUG 4	10	T5	RD-OR		32	RD-OR
	PLUG 4	11	T6	GN-RD	58	8	GN-RD
	PLUG 4	12	T7	RD-GN		33	RD-GN
	PLUG 4	13	T8	BR-RD	59	9	BR-RD
C8	PLUG 4	2	H1	RD-BR		34	RD-BR
	PLUG 4	3	HG	SL-RD	60	10	SL-RD
C6	PLUG	23	U1	RD-SL		35	RD-SL
	PLUG 4	26	U2	BL-BK	61	11	BL-BK
	PLUG 4	29	U3	BK-BL		36	BK-BL
	PLUG 4	32	U4	OR-BK	62	12	OR-BK
	PLUG 4	35	U5	BK-OR		37	BK-OR
	PLUG 4	38	U6	GN-BK	63	13	GN-BK
	PLUG 4	41	U7	BK-GN		38	BK-GN
	PLUG 4	44	U8	BR-BK	64	14	BR-BK
	PLUG 4	47	U9	BK-BR		39	BK-BR
	PLUG 4	20	UO	SL-BK	65	15	SL-BK
	PLUG 4	16	UG	BK-SL		40	BK-SL
C8	PLUG 5	21	BL-20	BL-YEL	66	16	BL-YEL
	PLUG 5	22	BL-21	YEL-BL		41	YEL-BL
	PLUG 5	23	BL-22	OR-YEL	67	17	OR-YEL
	PLUG 5	24	BL-23	YEL-OR		42	YEL-OR
	PLUG 5	25	BL-24	GN-YEL	68	18	GN-YEL
	PLUG 5	26	BL-25	YEL-GN		43	YEL-GN
	PLUG 5	27	BL-26	BR-YEL	69	19	BR-YEL
	PLUG 5	28	BL-27	YEL-BR		44	YEL-BR
	PLUG 5	29	BL-28	SL-YEL	70	20	SL-YEL
	PLUG 5	30	BL-29	YEL-SL		45	YEL-SL
	PLUG 5	31	BL-30	BL-VIO	71	21	BL-VIO
	PLUG 5	32	BL-31	VIO-BL		46	VIO-BL
	PLUG 5	33	BL-32	OR-VIO	72	22	OR-VIO
	PLUG 5	34	BL-33	VIO-OR		47	VIO-OR
	PLUG 5	35	BL-34	GN-VIO	73	23	GN-VIO
	PLUG 5	36	BL-35	VIO-GN		48	VIO-GN
	PLUG 5	37	BL-36	BR-VIO	74	24	BR-VIO
	PLUG 5	38	BL-37	VIO-BR		49	VIO-BR
	PLUG 5	39	BL-38	SL-VIO	75	25	SL-VIO
	PLUG 5	40	BL-39	VIO-SL		50	VIO-SL

LOW NUMBERED TERMINALS ARE CLOSEST TO THE CORD BUTT.

* SPARE CONDUCTORS SHALL BE CUT DEAD, INSULATED AND OF SUFFICIENT LENGTH TO REACH FURTHEST TERMINAL IN SET.

BROWN BINDER

AMPHENOL PLUG, TS OR LAMP STRIP TERMINAL IN SET SEE NOTE 303, FIG. 7			LEAD DESIGNATIONS	D200D CORD CONDUCTOR COLOR	CORD PAIR	AMPHENOL 57-TYPE 50 POINT PLUG TERM. OUT OF SET	A100C CONNECTOR CABLE SEE NOTE 304
SHEET NO.	PLUG, TS NO., OR LAMP STRIP POS	TERM.					
C8	PLUG 5	41	BL-40	BL-WH	76	1	BL-WH
	PLUG 5	42	BL-41	WH-BL		26	WH-BL
	PLUG 5	43	BL-42	OR-WH	77	2	OR-WH
	PLUG 5	44	BL-43	WH-OR		27	WH-OR
	PLUG 5	45	BL-44	GN-WH	78	3	GN-WH
	PLUG 5	46	BL-45	WH-GN		28	WH-GN
	PLUG 5	47	BL-46	BR-WH	79	4	BR-WH
	PLUG 5	48	BL-47	WH-BR		29	WH-BR
	PLUG 5	49	BL-48	SL-WH	80	5	SL-WH
	PLUG 5	50	BL-49	WH-SL		30	WH-SL
C6	PLUG 6	1	BL-50	BL-RD	81	6	BL-RD
	PLUG 6	2	BL-51	RD-BL		31	RD-BL
	PLUG 6	3	BL-52	OR-RD	82	7	OR-RD
	PLUG 6	4	BL-53	RD-OR		32	RD-OR
	PLUG 6	5	BL-54	GN-RD	83	8	GN-RD
	PLUG 6	6	BL-55	RD-GN		33	RD-GN
	PLUG 6	7	BL-56	BR-RD	84	9	BR-RD
	PLUG 6	8	BL-57	RD-BR		34	RD-BR
	PLUG 6	9	BL-58	SL-RD	85	10	SL-RD
	PLUG 6	10	BL-59	RD-SL		35	RD-SL
	PLUG 6	11	BL-60	BL-BK	86	11	BL-BK
	PLUG 6	12	BL-61	BK-BL		36	BK-BL
	PLUG 6	13	BL-62	OR-BK	87	12	OR-BK
	PLUG 6	14	BL-63	BK-OR		37	BK-OR
	PLUG 6	15	BL-64	GN-BK	88	13	GN-BK
	PLUG 6	16	BL-65	BK-GN		38	BK-GN
	PLUG 6	17	BL-66	BR-BK	89	14	BR-BK
	PLUG 6	18	BL-67	BK-BR		39	BK-BR
	PLUG 6	19	BL-68	SL-BK	90	15	SL-BK
	PLUG 6	20	BL-69	BK-SL		45	BK-SL
	PLUG 6	21	BL-70	BL-YEL	91	16	BL-YEL
	PLUG 6	22	BL-71	YEL-BL		41	YEL-BL
	PLUG 6	23	BL-72	OR-YEL	92	17	OR-YEL
	PLUG 6	24	BL-73	YEL-OR		42	YEL-OR
	PLUG 6	25	BL-74	GN-YEL	93	18	GN-YEL
	PLUG 6	26	BL-75	YEL-GN		43	YEL-GN
	PLUG 6	27	BL-76	BR-YEL	94	19	BR-YEL
	PLUG 6	28	BL-77	YEL-BR		44	YEL-BR
	PLUG 6	29	BL-78	SL-YEL	95	20	SL-YEL
	PLUG 6	30	BL-79	YEL-SL		45	YEL-SL
	PLUG 6	31	BL-80	BL-VIO	96	21	BL-VIO
	PLUG 6	32	BL-81	VIO-BL		46	VIO-BL
	PLUG 6	33	BL-82	OR-VIO	97	22	OR-VIO
	PLUG 6	34	BL-83	VIO-OR		47	VIO-OR
	PLUG 6	35	BL-84	GN-VIO	98	23	GN-VIO
	PLUG 6	36	BL-85	VIO-GN		48	VIO-GN
	PLUG 6	37	BL-86	BR-VIO	99	24	BR-VIO
	PLUG 6	38	BL-87	VIO-BR		49	VIO-BR
	PLUG 6	39	BL-88	SL-VIO	100	25	SL-VIO
	PLUG 6	40	BL-89	VIO-SL		50	VIO-SL

LOW NUMBERED TERMINALS ARE CLOSEST TO THE CORD BUTT.

DRAWING ISSUE
SUPER-SEDES ISS 4B
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INFORMATION NOTES:

301. UNLESS OTHERWISE SPECIFIED: RESISTANCE VALUES ARE IN OHMS, CAPACITANCE VALUES ARE IN MICROFARADS.

302. THE FOLLOWING FIGURES GIVE THE LAYOUT OF THE VARIOUS KEYS, LAMPS, PLUGS, TERMINALS AND CORD AND CABLE CONNECTIONS FOR THE 610A OR 3A TELEPHONE SET.

FIG. 1

AUD SIG DIAL AND NIGHT SERVICE KEY UNIT

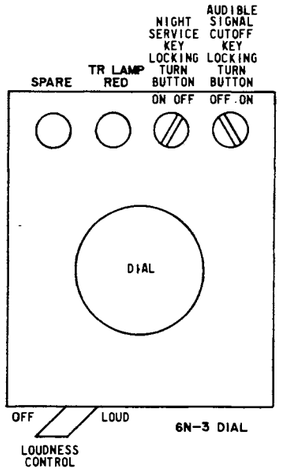


FIG. 2

RIGHT KEY AND TRK LAMP UNIT

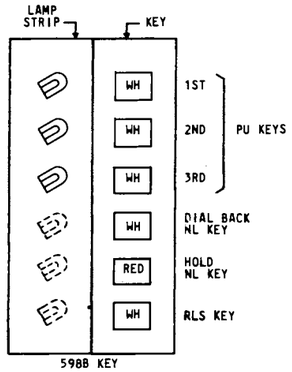


FIG. 3

RIGHT STATION LAMP UNIT

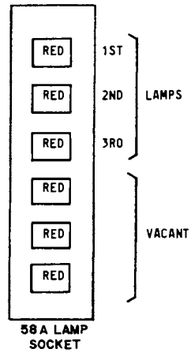


FIG. 4

CENTER OR LEFT KEY TRK LAMP UNIT

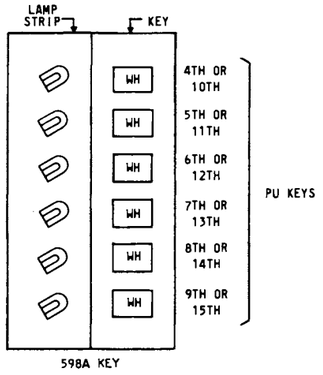


FIG. 5

CENTER OR LEFT STATION LAMP UNIT

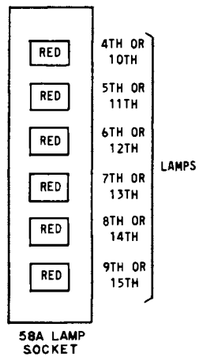


FIG. 6

CORD AND CABLE CONNECTION ARRANGEMENTS

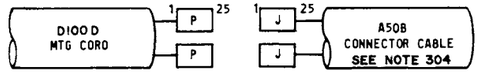
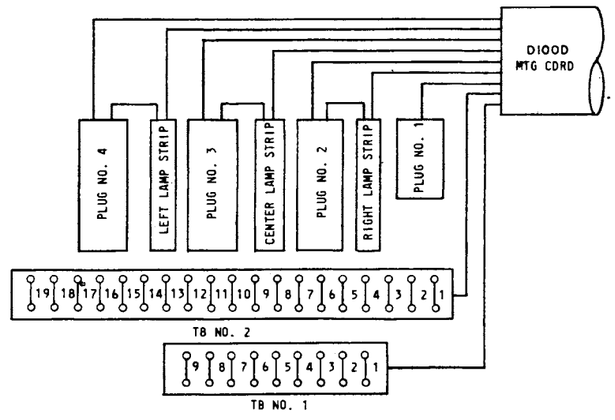


FIG. 7

PLUG, TERMINAL AND LAMP STRIP CONFIGURATION IN SET



DRAWING ISSUE

4B	WDG H.M. TEB	
6B	P.F.D. WFF K.F.J.	HW

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6

PBX SYSTEMS
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SIZE 6S

SD-65757-01-D5

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INFORMATION NOTES (CONT):

303. THE FOLLOWING FIGURES GIVE THE LAYOUT OF THE ~~VARIOUS KEYS~~, LAMPS, ETC. (4A TYPE TELEPHONE SET).

304. THE CONNECTOR CABLE IS CROSS CONNECTED TO HOUSE AND FEEDER CABLE. SEE SD-65746-01 AND PLANT SERIES BSP.

305. TEST REQUIREMENTS FOR THE 402A TONE GENERATOR IT

(1) CONNECT GROUND TO TERMINAL 2 TO START TONE GENERATOR.

(2) TAKE VOLTAGE MEASUREMENTS ACROSS 450 OHM LOAD RESISTOR 1L.

THE OUTPUT ACROSS 450 OHM LOAD RESISTOR 1L SHOULD BE AS FOLLOWS:

MAX.	MIN.	AVERAGE
.212V	.106V	.150V

IF THE OUTPUT IS TOO HIGH REMOVE STRAP FROM 4990 OHM RESISTOR R5 OR R6 OR BOTH R5 AND R6.

FIG. 1

AUD SIG DIAL AND NIGHT SERVICE KEY UNIT

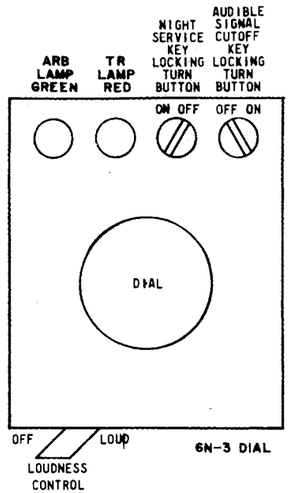


FIG. 2

RIGHT KEY AND TRK LAMP UNIT

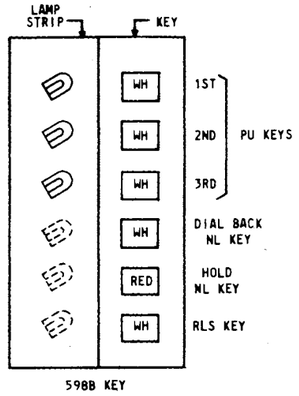


FIG. 3

RIGHT STATION LAMP UNIT

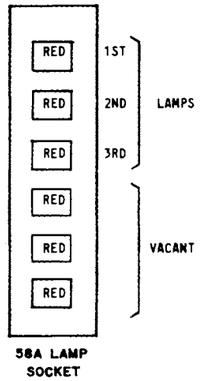


FIG. 4

CENTER OR LEFT KEY TRK LAMP UNIT

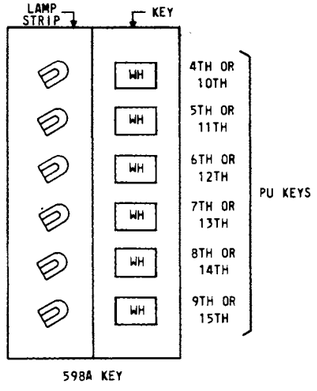


FIG. 5

CENTER OR LEFT STATION LAMP UNIT

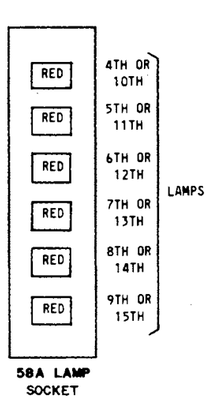


FIG. 6

CORD AND CABLE CONNECTION ARRANGEMENTS

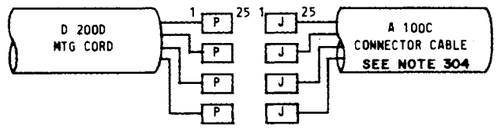


FIG. 7

PLUG TERMINAL AND LAMP STRIP CONFIGURATION IN SET

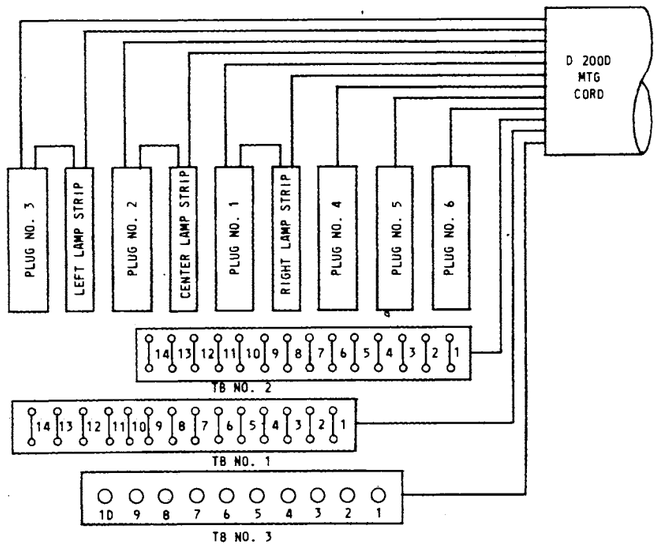
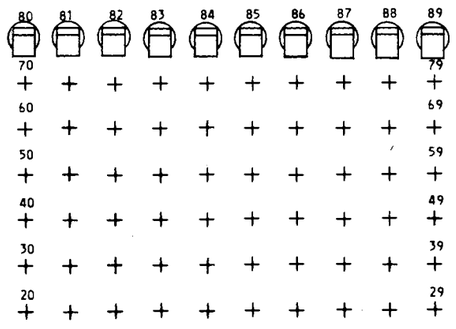


FIG. 8

DSS LAMP AND KEY UNIT



DRAWING ISSUE

48	VDC H.M. YEB
6B	PFD WFF KFJ
11B	JJR PJG RHP

PMJU

SD-65757-01-D6

11

CORDLESS POSITION CIRCUIT (2)

SD-65757-01-D6

BELL TELEPHONE LABORATORIES INCORPORATED

DWG SIZE 6S

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EQUIPMENT NOTES (CONTINUED)

210. CONNECTING AND MODIFICATION INFORMATION FOR 6 BUTTON KEY TELEPHONE SET 565GK AND 1565GK IS SHOWN BELOW.

TABLE 1

LEADS FROM TEL SET	66-E TYPE CONN. BLOCK		16-PAIR CABLE		HOUSE BOX.	
	BLOCK NO.	CLIP TERM. NO	PAIR NO.	CONDUCTOR NO.	LEAD DESIG.	TO
T	1	1*	1	W-BL	TT	POS.CKT.1ST OR 2ND CORDLESS POSITION
R		2*	1	BL-W	TR	POS.CKT.1ST OR 2ND CORDLESS POSITION
A		3	2	W-O	ACA-1	1ST TRUNK
A1		4	2	O-W	ACG	POS.CKT.1ST OR 2ND CORDLESS POSITION
LG		5*	3	W-G	AP	AP GRD, NIGHT SERVICE KEY
L1		6	3	G-W	L-1 OR SL3-1	1ST TRUNK
T		7*				
R		8*	1			
A		9	4	W-BR	ACA-2	2ND TRUNK
SPARE		10	4	BR-W	NS	NIGHT SERVICE KEY, ALARM, TRANS, AND TEST CKT
LG	2	11*				
L2		12	5	W-S	L-2 OR SL3-2	2ND TRUNK
T		13*				
R		14*				
A		15	5	S-W	ACA-3	3RD TRUNK
SPARE		16				
LG		17*				
L3		18	6	R-BL	L-3 OR SL3-3	3RD TRUNK
T		19*				
R		20*				
A,S,OR S1	3	21	6	BL-R	ACA-4	4TH TRUNK
SPARE		22				
LG		23				
L4		24	7	R-O	L-4 OR SL3-4	4TH TRUNK
T		25*	8	R-G	T	(V) STATION LINE CKT.
R		26*	8	G-R	R	(V) STATION LINE CKT.
A,S OR S1		27	7	O-R	ACA-5	5TH TRUNK
SPARE		28*	9	R-BR	SG	REM ANS KEY-AP GRD, CORD SWBD 1ST OR 2ND CORDLESS POS
LG		29*				
L5		30	9	BR-R	L-5 OR SL3-5	5TH TRUNK
T	4	31				
R		32				
A,S OR S1		33	10	R-S	H	POS.CKT.
SPARE		34	10	S-R	NTG,DB	POS.CKT. DIAL BACK KEY
LG		35				
L6		36				
BL		37				
G OR SG		38*			DB,SG	DIAL BACK KEY AP GRD SWBD 1ST OR 2ND CORDLESS POS.
B OR B1		39	11	BK-BL	BZ	
R OR R1		40				
T	5	41				
R		42*	11	BL-BK	RC	REMOTE ANSWER KEY POS. CKT.
A		43				
-		44	12	BK-O	RA	REMOTE ANSWER KEY POS. CKT.
T1+		45				
R1+		46				
P3+		47				
P4+		48				
AG+		49				
LK+		50				

TABLE 2

INTER-CONNECTIONS ON 66E-TYPE CONNECTING BLOCK	
FROM TERM.	TO TERM.
7	1
8	2
11	5
13	7
14	8
17	11
19	13
20	14
23	17
(T) 25	(T) 19
(T) 26	(T) 20
29	23
42	38
(ZR) 38	(ZR) 28

NOTE:
1. CONNECT OPTION ZR IF REMOTE ANSWERING KEY IS NOT PROVIDED.

TABLE 3
MODIFICATION OF TEL. SET

LEAD OR CONDUCTOR COLOR	DISCOUNT FROM TERM	CONNECT TO TERM
BR-BK (6TH KEY)	M	SG
S (RINGER)	K	A
W-BL (EXC KEY)		ET
BL-W (EXC KEY)		RR
W-O (EXC KEY)		EH

NOTE:
1. PROVIDE OPTIONS Y AND M IN KEY TEY SETS.

\+ SPEAKER PHONE LEADS
OPTIONS IN ABOVE TABLE ARE IN CORDLESS POSITION CKT (SD-65757-01)

* CROSS CONNECT AS PER TABLE 2

ISSUE
HB TEF PJS RHF

HW

11

CORDLESS POSITION CIRCUIT (2) SD-65757-01-D7

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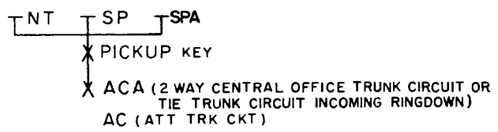
DRAWING ISSUE
1 M.D. W.M.
4B Y.G. K.M. T.E.B.
6B C.C. H.M.E. P.D.

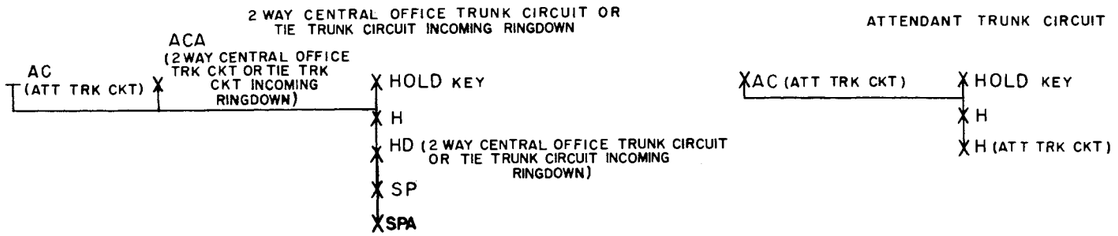
SC 1

ATTENDANT ANSWERS INCOMING TRUNK SIGNAL



SC 2

ATTENDANT HOLDS TRUNK CIRCUIT

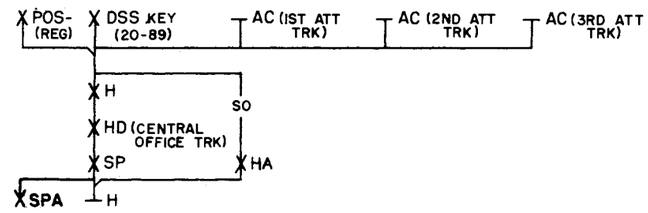


SC 3

ATTENDANT DISCONNECTS FROM TRUNK CIRCUIT

SC 4

ATTENDANT COMPLETES INCOMING CALL FROM 2 WAY CENTRAL OFFICE TRUNK VIA DIRECT STATION SELECTION



SD-65757-01-E1

PBX SYSTEMS
NO. 756A
CORDLESS POSITION CIRCUIT (2)
SD-65757-01-E1
BELL TELEPHONE LABORATORIES INCORPORATED
SIZE 6S
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6

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DRAWING ISSUE 6B

PMJD

SC 5

INDICATION OF CAMPED-ON CALL TO BUSY LINE (WITHOUT ATT DSS)

- PU KEY
- ACA (TRK)
- AC (TRK)
- IC-(TRK)
- CS
- CO

ATTENDANT NOTIFIES CENT. OFF. PARTY THAT TRUNK IS CAMPED-ON

TONE GENERATOR STARTED

ATTENDANT DISCONNECTS

- RLS KEY
- PU
- AC (TRK)
- RLS KEY
- ACA (TRK)
- SS
- SR
- CS
- SR
- CS
- IC-(TRK)
- CO

INDICATION TONE APPROX 1/2 SEC

GROUND START REMOVED FROM TONE GENERATOR

SC 6

CENTRAL OFFICE TRUNK CAMPS-ON BUSY LINE (WITH ATT DSS) (PREVIOUS ACTION SHOWN IN SC 4)

- BY (TRK)
- SL LAMP 60 IPM
- ATTENDANT RELEASE DSS KEY
- DSS KEY
- HA
- IC-(TRK)
- CS
- CO

TO SC 7

TONE GENENERATOR STARTED

SC 7

ATTENDANT DISCONNECTED FROM TRUNK (WITH ATT DSS) (PREVOUS ACTION SHOWN IN SC6)

- RLS KEY
- ACA (TRK)
- SP
- SPA
- DS
- SS
- SR
- CS
- SR
- SS
- IC-(TRK)
- CO

INDICATION TONE APPROX 1/2 SEC

GROUND START REMOVED FROM TONE GENERATOR

10

CORDLESS POSITION CIRCUIT (2)

SD-65757-01-E2

BELL TELEPHONE LABORATORIES INCORPORATED

DWG SIZE 6S

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CIRCUIT REQUIREMENTS

NO. 756A CDLS POS CKT

APPARATUS DESIG	APPARATUS CODE	APPARATUS OPTION	APPARATUS FIG.	MECH REQT BSP FIG.	MECH REQT CONT PRESS.	MECH REQT ARM. TRVL.	CIRCUIT PREPARATION BLOCK OR INSULATE	CIRCUIT PREPARATION TEST CLIP DATA CONN BAT.	CIRCUIT PREPARATION TEST CLIP DATA CONN GRD	TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT TEST WDG	DIRECT CURRENT FLOW REQT TEST FOR	DIRECT CURRENT FLOW REQT AFTER SOAK MA.	DIRECT CURRENT FLOW REQT TEST MA.	DIRECT CURRENT FLOW REQT READJ MA.	REMARKS
RELAYS																	
BZ, BZ1	AJ63		3	249				14	REL TEST GRD				0		13.2	12.8	
CO	AF129	ZU	13	28					U(CO) GRD				0		10.0	9.5	
CS	AG24	13	13	188					U(CS) GRD				0		13.7	13	
DS	1/2AK15	13	13	9					1U(DS)		1		0		14.2	13.5	MOUNTED WITH (SPA)
													H		5.9	5.6	WDG ALONE
DS	1/2AK15	13	13	9									0		25.3	24.1	PAR.COMB. DS & HA
													H		8.5	9	MOUNTED WITH(SPA)
FB	AF113		1	273					1U(FB)	GRD		P	0		8.9	8.2	
H	AF63		1	229					1U(H)	GRD		P	0		7	6.7	
HA	AF85	A	5	401					U(HA)	GRD			0		36	34	WDG ALONE
									U(AH)	GRD			NO		23	23.5	
									U(AH)	GRD			RLS		10	10.5	
HA	AF85	A	5	401									0		105	100	PAR.COMB. HA & DS
													NO		61.3	64.5	
													RLS		26.6	28.0	
NT	AG14		1	458					1U(NT)	GRD		P	0		31.5	30	THESE REQUIREMENTS APPLY TO PRIMARY WINDING WITH SECONDARY WINDING SHORT CIRCUITED
									1U(NT)	GRD		P	H		4.7	4.4	
									1U(NT)	GRD		P	R		3.3	3.6	
SP	AF111		1	270			11M(SP)		U(SP)	GRD			0		42.5	40.5	
SPA	1/2AK15	13	13	9			11M(SP)		1L(SPA)	GRD			0		12.5	11.9	MOUNTED WITH (DS)
SS	AG24	13	13	188					U(SS)	GRD			0		13.7	13	

TEST NOTES:

1. PARALLEL COMBINATION (DS) AND (HA) RELAYS.

DRAWING ISSUE	
1	M.O. DMM PAS
2D	P.D.
4B	VBG TEF SWC CJT HAE PD
6B	TEF PJS GFH
10AC	JJR PJS RMH
11B	

PAGE 1

NO. 756A CARRIERLESS POSITION CIRCUIT	SD-65757-01-F1
BELL TELEPHONE LABORATORIES INCORPORATED	

SD-65757-01-F1

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NO. 756A CARRIERLESS POSITION CIRCUIT (2)	SD-65757-01-F1
BELL TELEPHONE LABORATORIES INCORPORATED	

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SD-65942-01

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	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	SHEET NO.
SHEET INDEX SUPPORTING INFORMATION	1	1	2	3	4	5	6	7																																												1
CIRCUIT NOTES EQUIPMENT NOTES INFORMATION NOTES WORKING LIMITS	2	1	2	3	3	3	6	7																																											2
FS 1 STATION AUXILIARY RELAY CKT	3	1	1	3	3	5	6	7																																										3
FS 2 REGISTER AUXILIARY RELAY CKT	4	1	1	3	3	3	6	6																																										4
APP FIG. 1-5	5	1	1	3	3	5	6	7																																										5
SC 1 STATION TO STATION CALL USING DIRECT STATION SELECTION SC 2 STATION TO STATION CALL USING DIRECT STATION SELECTION TWO STATIONS WITH REGISTER ATTACHED ATTEMPT CALL SIMULTANEOUSLY	6	1	1	3	3	3	6	7																																										6
CKT REQT TABLE	7	1	1	3	3	3	6	7																																										7
CAD 1,2,3	8	1	1	3	3	5	6	7																																										8
CAD 4,5,6	9	1	1	3	3	3	6	7																																										9
CAD 7,8,9	10	1	1	3	3	3	6	7																																										10

SUPPORTING INFORMATION

CATEGORY	NO.
756A PBX CABLING 756A PBX EQUIP	SD-65746-01 J58829AA-( ) J58829AB-( )

DWG ISSUE	CD ISSUE	DATE ISSUED	DRAWN	APP'D
1	1	10-25-61	RAH JJTS	A.F.G. R.D.W. T.E.B.
2D	2 D	1-25-62	R.T. M.S	W.K.S. M.F.H. P.D.
3D	2D APP 1D	4-10-62	R.T. WVH	P.B. W.F.H. P.D.
4D	2D APP 2D	4-10-62	R.T. WVH	P.B. M.F.H. P.D.
5A	2D APP 3A	4-10-62	R.T. WVH	P.B. W.F.H. P.D.
6B	3B	10-18-66	BCM P.J.S I.T.	H.E.D. L.A.H. R.H.P.
7B	3B APP 1B	10-23-67	ROZ PJS RHO	R.H.B. L.A.H. R.H.P.

SHEET INDEX NOTES

1. WHEN CHANGES ARE MADE IN THIS DRAWING, ONLY THOSE SHEETS AFFECTED WILL BE REISSUED.
2. 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.
3. THE ISSUE NUMBER ASSIGNED TO A CHANGED OR NEW SHEET WILL BE THE SAME ISSUE NUMBER AS THAT OF THE SHEET INDEX.
4. SHEETS THAT ARE NOT CHANGED WILL RETAIN THEIR EXISTING ISSUE NUMBER.
5. THE LAST ISSUE NUMBER OF THE SHEET INDEX IS RECOGNIZED AS THE LATEST ISSUE NUMBER OF THE DRAWING AS A WHOLE.

7

SD-65942-01 IJO7

PBX SYSTEMS

NO. 756A
AUXILIARY RELAY CIRCUIT

FOR DIRECT STATION SELECTION
FROM STATIONS

(AUX REL DSS) (2)

BELL TELEPHONE LABORATORIES INCORPORATED

65

AT&TCO STANDARD

SD-65942-01-1

10 SHEETS

SD-65942-01-1

E-7595 (1-61)

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CIRCUIT NOTES:

101.

DESIG	FUSE AMP	POTENTIAL	ONE PER
DSS	1-1/3	-48V	PBX
DSS	.100	+48V	PBX

BATTERY SYMBOL	VOLTAGE RANGE
-48	45-52V
+48	40-60V

102.

FEATURE OR OPTION	PROVIDE FIG.	APP OR WRG	QUANTITY
REGISTER AUXILIARY	1		ONE PER PBX
STATION CONNECTOR	2		ONE PER LINE ARRANGED FOR DSS
KEY RELAYS	3		ONE PER TWO LINES ARRANGED FOR DSS
UNITS AND TENS DIODES	4		ONE PER KEY PER LINE ARRANGED FOR DSS
KEY DIODES	5		

103.

NETWORK VALUES		
NETWORK NO.	RESISTANCE IN OHMS	CAPACITANCE IN UF

104.

RECORD OF 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	
6B	Z OR Y	Z		Y		Z	
7B	X OR W	X		W		X	
7B	V	NONE		V			

EQUIPMENT NOTES:

202. CROSS CONNECT WIRING TO BE DRESSED BACK TO PROVIDE A LOOP TO PERMIT REMOVAL OF DIODES (T-) AND (U-) ASSEMBLIES TO REPLACE DIODES IF NECESSARY.

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. CONNECT THE (T-) AND (U-) DIODES ASSOCIATED WITH A DSS KEY TO THE T0,T2-9 LEADS AND U0-U9 LEADS, RESPECTIVELY CORRESPONDING TO THE TENS AND UNITS DIGIT OF THE DIRECTORY NUMBER OF THE TRUNK OR STATION TO BE SELECTED BY THE KEY.

WORKING LIMITS
MAX RES OF CIRCUIT PATH FOR SATISFACTORY OPERATION OF RELAY SC IS 125 OHMS.

ISSUE		
1	VOG JJS TCN	
2D	R.T. M.S P.D.	
3D	R.T. WVH P.D.	A
6B	BCM PJS RHP	HW
7B	ROZ PJS RHP	

B C D

7

AUXILIARY RELAY CIRCUIT

SD-65942-01-2

BELL TELEPHONE LABORATORIES INCORPORATED

DWG SIZE 6S

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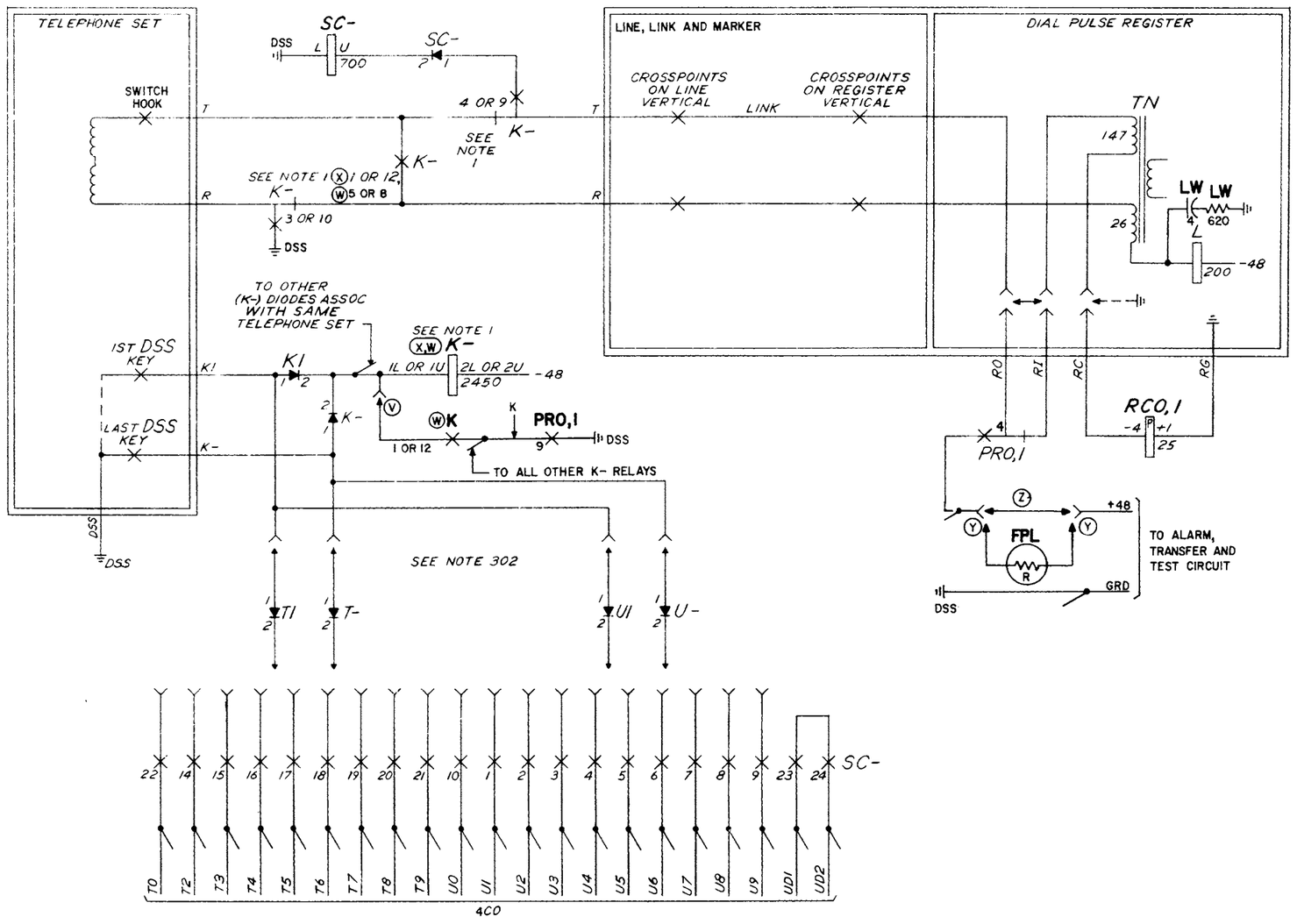
FS 1

STATION AUXILIARY RELAY CIRCUIT



SHEET NOTES:

1. SPRINGS 1-5 AND COIL TERMINALS 1L & 2L OF RELAY (K) ARE ASSOCIATED WITH THE EVEN NUMBERED CIRCUIT OF THE UNIT. SPRINGS 8 TO 12 AND COIL TERMINALS 1U & 2U ARE ASSOCIATED WITH THE ODD NUMBERED CIRCUIT OF THE UNIT.

DRAWING ISSUE		
1	RAN	1/71
	TEB	
3D	R.T.	1/74
	WYH	
	P.D.	
5A	R.T.	1/75
	WYH	
	P.D.	
6B	BCM	1/76
	RJS	
	RHP	
7B	ROZ	8/79
	RHP	

7

AUXILIARY RELAY CIRCUIT

SD-65942-01-3

BELL TELEPHONE LABORATORIES INCORPORATED

DWG SIZE 6S

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SD-65942-01-3

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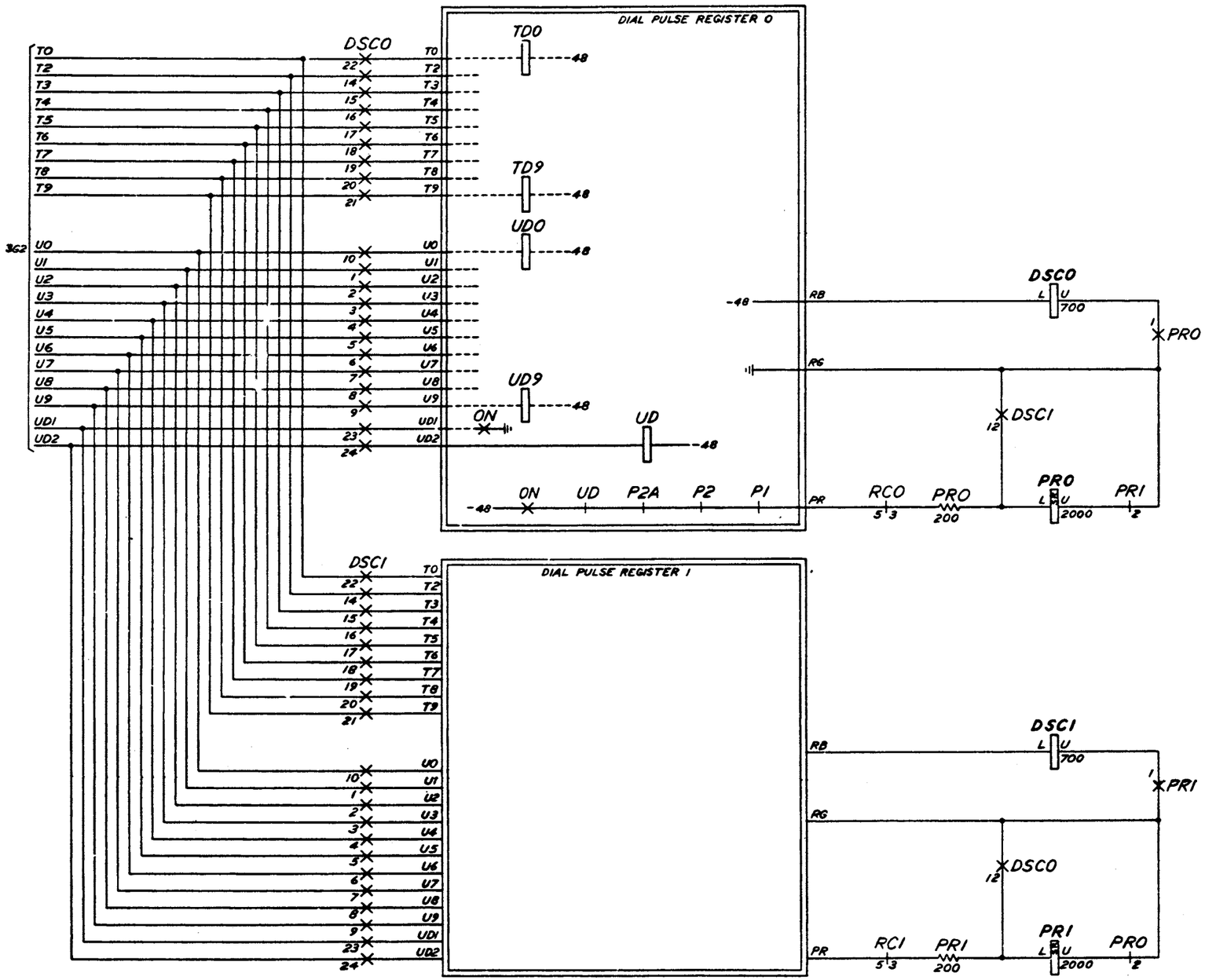
FS 2
REGISTER AUXILIARY RELAY CIRCUIT



DRAWING ISSUE

1	4AM WE TQ
3D	R.T. WW P.D.
6B	BCM RJS RHS

6

AUXILIARY RELAY CIRCUIT	SD-65942-01-4
BELL TELEPHONE LABORATORIES INCORPORATED	65

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APP FIG. 1

RELAY

DESIG	DSC0	DSC1	
CODE	AJ202	AJ202	
OPTION			
24	4A2	4E2	
23	4A2	4E2	
22	4A2	4E2	
21	4A2	4E2	
20	4A2	4E2	
19	4A2	4E2	
18	4A2	4E2	
17	4A2	4E2	
16	4A2	4E2	
15	4A2	4E2	
14	4A2	4E2	
13			
12	4G5	4D5	
11			
10	4A2	4E2	
9	4A2	4E2	
8	4A2	4E2	
7	4A2	4E2	
6	4A2	4E2	
5	4A2	4E2	
4	4A2	4E2	
3	4A2	4E2	
2	4A2	4E2	
1	4A2	4E2	
COIL	4C6	4F6	

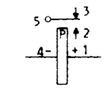
RELAY

DESIG	PR0		PR1					
CODE	AG20		AG20					
OPTION								
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC
12	M		M					
11	M		M					
10	EBM		EBM					
9	M	3D2	M	3D2				
8	EMB		EMB					
7								
6	EMB		EMB					
5								
4	EBM	3D5	EBM	3D5				
3	M		M					
2	EBM	4H6	EBM	4D6				
1	M	4C6	M	4F6				
COIL		4D6		4H6				

RELAY

280AW

RCO RCI



4D5 4H5

3D5 3D5

LAMP

RESISTANCE

DESIG	LOC	CODE
(Y) FPL	3D5	13N

RESISTOR

DESIG	LOC	CODE
PR0	4D5	18G
PR1	4H5	18G

APP FIG. 2

RELAY

DESIG	SC-	
CODE	AJ202	
OPTION		
24	3F4	
23	3F4	
22	3F4	
21	3F4	
20	3F4	
19	3F4	
18	3F4	
17	3F4	
16	3F4	
15	3F4	
14	3F4	
13		
12		
11		
10	3F4	
9	3F4	
8	3F4	
7	3F4	
6	3F4	
5	3F4	
4	3F4	
3	3F4	
2	3F4	
1	3F4	
COIL	3A1	

DIODE

DESIG	LOC	CODE
SC-	3A2	400J

APP FIG. 3

RELAY

DESIG	K-		K-		K-		K-	
CODE	AK4				AK49			
OPTION	X				W			
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC
12			M	3B2			M	3D2
11			EBM				EBM	
10			EBM	3B1			EMB	3B1
9			EMB	3B2			EMB	3B2
8			EMB				EMB	3B2
7								
6								
5	EMB				EMB	3B2		
4	EMB	3B2			EMB	3B2		
3	EBM	3B1			EMB	3B1		
2	EBM				EBM			
1	M	3B2			M	3D2		
COIL		3C2		3C2		3C2		3C2

APP FIG. 4

DIODES

DESIG	LOC	CODE
T-	3E1	400J
U-	3E3	400J

APP FIG. 5

DIODES

DESIG	LOC	CODE
K-	3C1	400J

DRAWING ISSUE

1	RAH JJS FEB
3D	R.T. WYH P.D.
5A	R.T. WYH P.D.
6B	BCM PJS RHF
7B	ROZ PJS RHF

SD-65942-01-5

7

AUXILIARY RELAY CIRCUIT

SD-65942-01-5

BELL TELEPHONE LABORATORIES INCORPORATED

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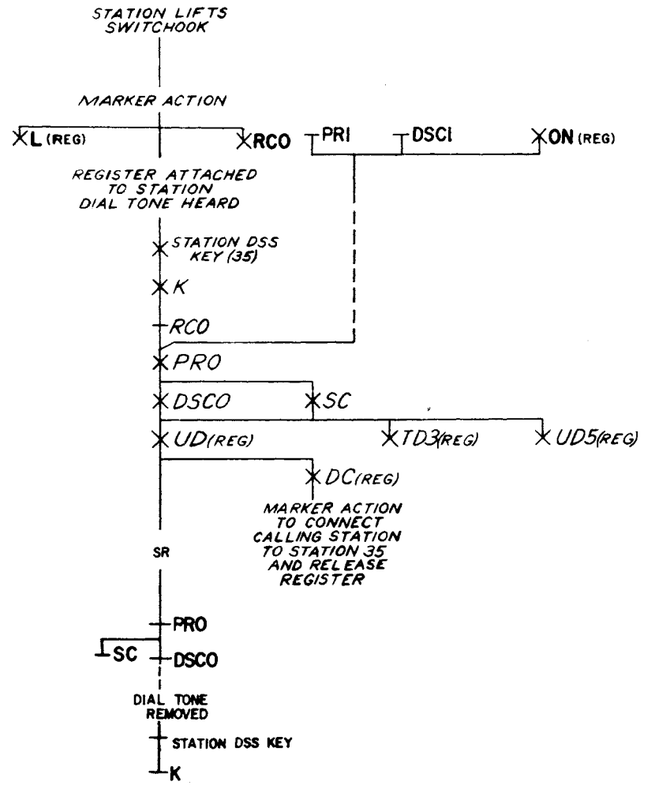
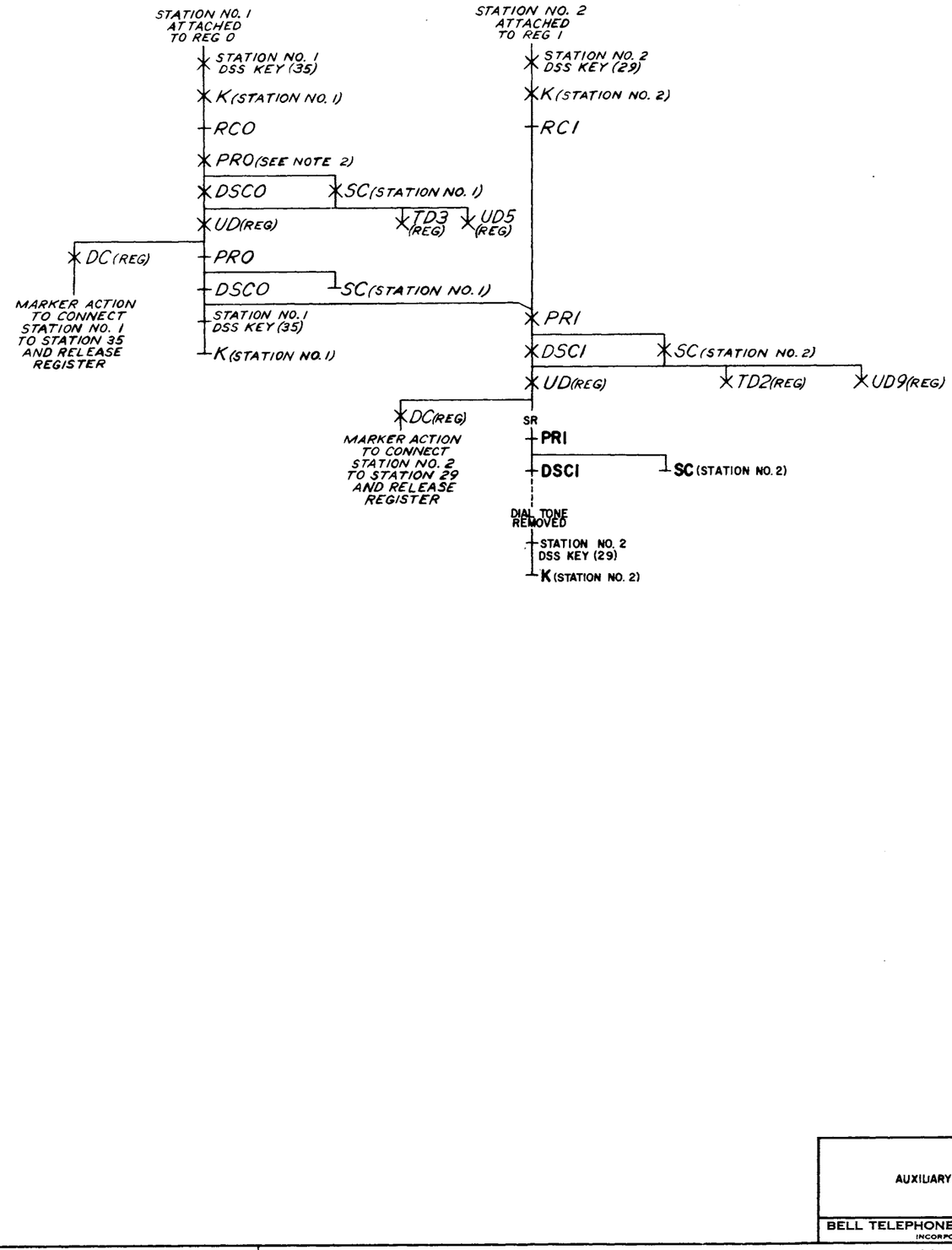
SC 1

(SEE NOTE 1)
STATION TO STATION CALL USING
DIRECT STATION SELECTION



SC 2

STATION TO STATION CALL USING DIRECT STATION SELECTION
TWO STATIONS WITH REGISTERS ATTACHED ATTEMPT
CALL SIMULTANEOUSLY



SHEET NOTES:

1. SC 1 ASSUMES THAT STATION IS ATTACHED TO REGISTER 0 WHEN DSS KEY IS OPERATED AND NO OTHER STATION IS ATTEMPTING TO COMPLETE A CALL USING DIRECT STATION SELECTION.
2. IT IS ASSUMED THAT THE (PRO) RELAY OPERATED BEFORE THE (PRI) RELAY AND STATION NO. 1 WON PREFERENCE.

DRAWING ISSUE	
1	RAH UJTS TEH
3D	R.T. WYH P.D.
6S	JCM PJS RHB
7B	ROZ AYS RHP

7

AUXILIARY RELAY CIRCUIT

SD-65942-01-6

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CIRCUIT REQUIREMENTS

NO.759A DIAL COMMUNICATING SYSTEM AND NO.756A AUXILIARY RELAY CIRCUIT

APPARATUS					MECH REQT			CIRCUIT PREPARATION						TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT					REMARKS
DESIG	CODE	OPT	FIG		BSP FIG.	CONT PRESS.	ARM TRVL	BLOCK OR INSULATE	TEST CLIP DATA CONN BAT.		TEST CLIP DATA CONN GRD					TEST WDG	TEST FOR	AFTER SOAK MA.	TEST MA.	READJ MA.	
RELAYS																					
DSCO,1	AJ202		1		500						U	REL TST		GRD			0		42.5	40.5	
K-	1/2AK4	X	3		202						1U	REL TST		GRD			0		11.9	11.3	FOR ODD NUMBERED
K-	1/2AK49	W	3		224						1U	REL TST		GRD			0		11.9	11.3	CKT ON UNIT
K-	1/2AK4	X	3		202						1L	REL TST		GRD			C		11.9	11.3	FOR EVEN NUMBERED
K-	1/2AK49	W	3		224						1L	REL TST		GRD			0		11.9	11.3	CKT ON UNIT
PRO,1	AG20		1		262B				L	REL TST	U	REL TST		B/G			0		10.7	10.2	
																	H		2	1.9	
																	R		0.9	1.1	
RCO,1	280AW		1		B				4	REL TST				BAT.			0	-50		1.1	
																	ND	-50		0.8	
																	0	-50	13.5	12.8	
																	R	50	5.4	5.7	
SC-	AJ202		2		500				U	REL TST				BAT.			0		42.5	40.5	

DRAWING ISSUE	
1	RAN 1/15 7EB
3D	RT WYH PD
6B	BCM PJS RHP
7B	ROZ PJS RHP

SD-65942-01-7

AUXILARY RELAY CIRCUIT

BELL TELEPHONE LABORATORIES INCORPORATED

SD-65942-01-7

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DRA IS
1
3D
6B
7E

7

AUXILIARY RELAY CIRCUIT

BELL TELEPHONE LABORATORIES INCORPORATED

6S

SD-65942-01-7

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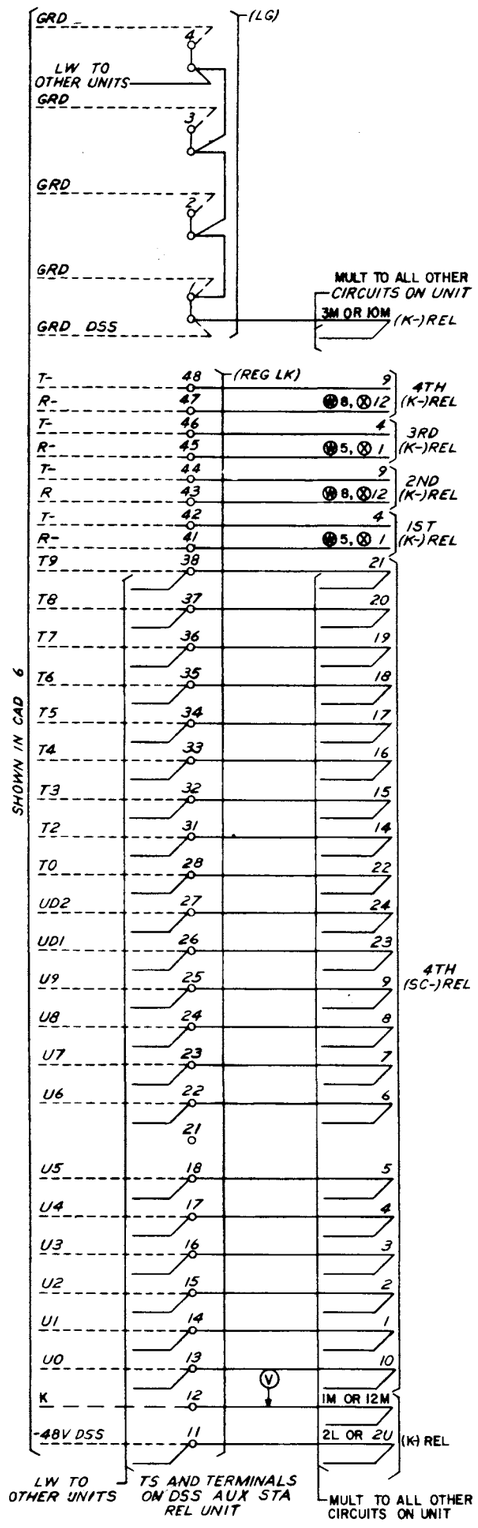
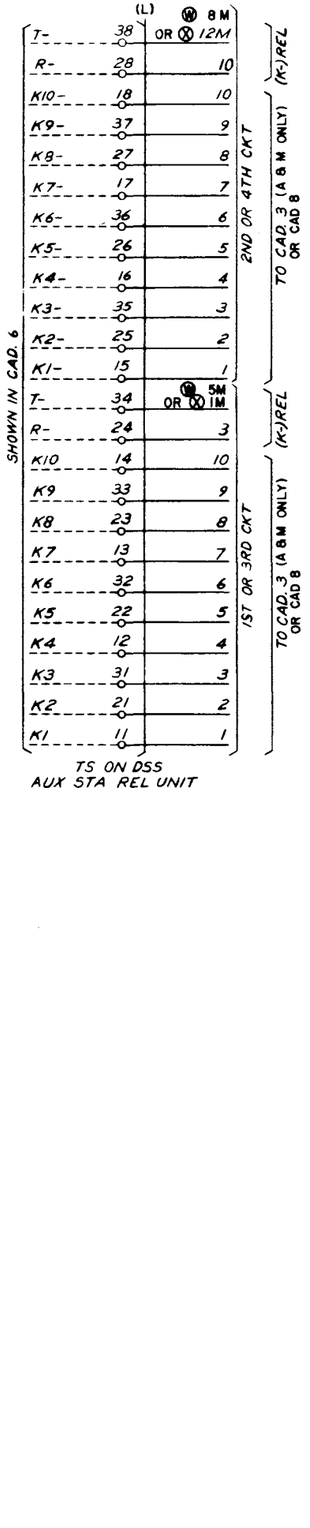
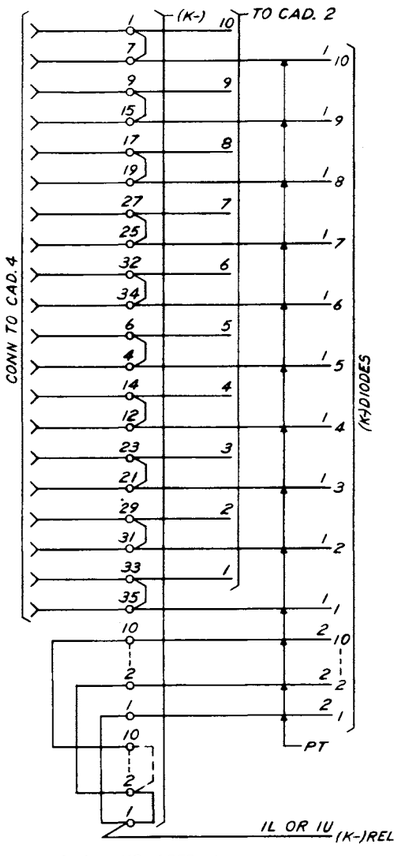
CAD. 1
(PART OF APP FIG. 2 & 3)

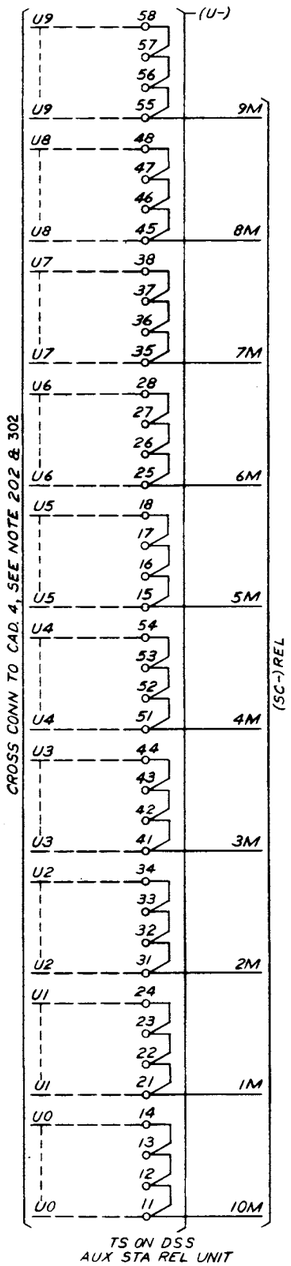


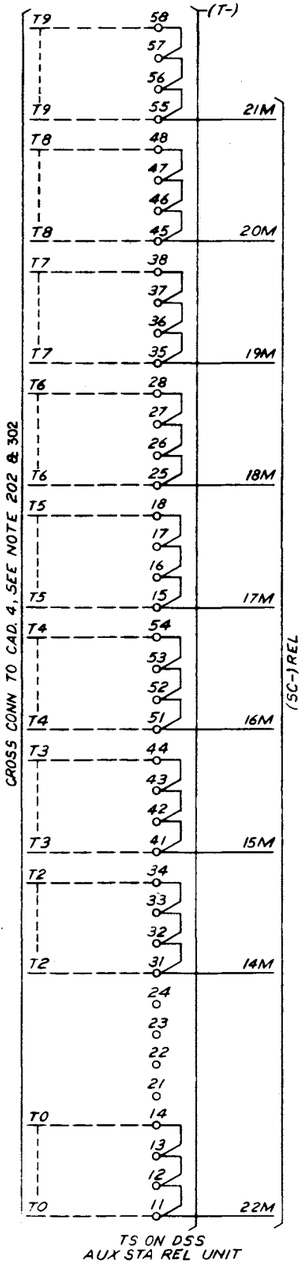
CAD. 2
(PART OF APP FIG. 2 & 3)



CAD. 3 (A & M ONLY)
(PART OF APP FIG. 2)







DRAWING ISSUE

1	RAN	
	U/S	
	TKS	
3D	R.T.	
	WW	
	P.D.	
5A	R.T.	
	WW	
	P.D.	
6B	BCM	
	PJS	
	RHF	
7B	ROZ	
	PJS	
	RHF	

7

AUXILIARY RELAY CIRCUIT

SD-65942-01-8

BELL TELEPHONE LABORATORIES INCORPORATED

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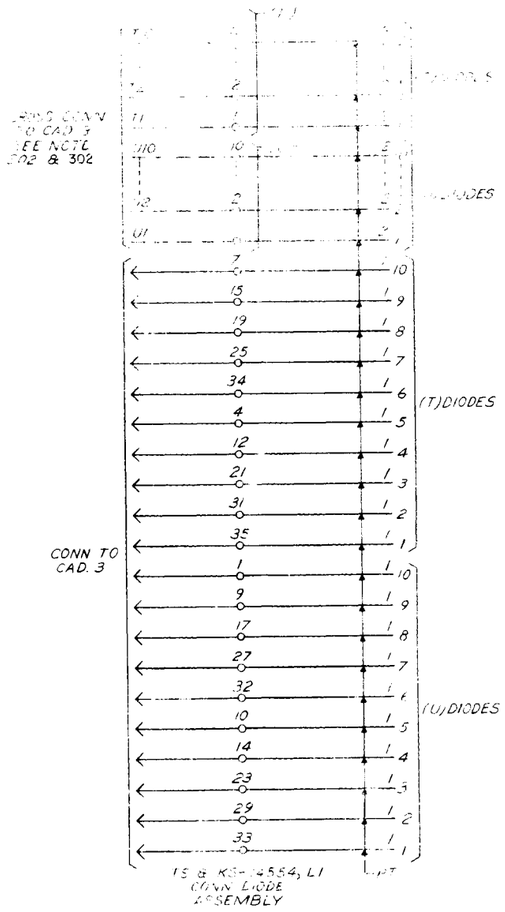
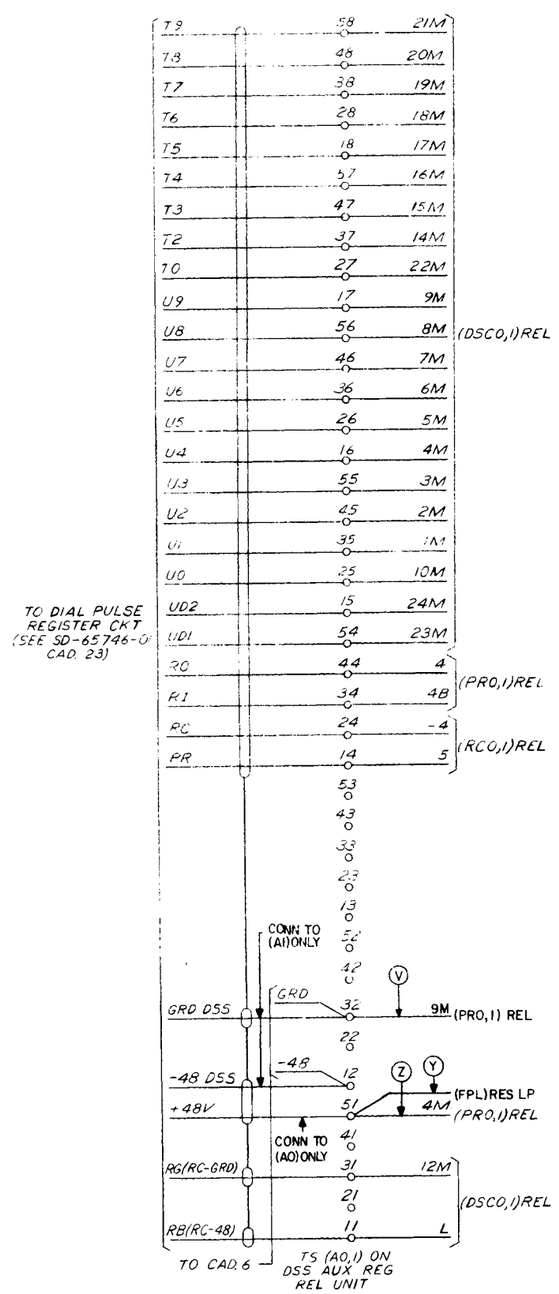
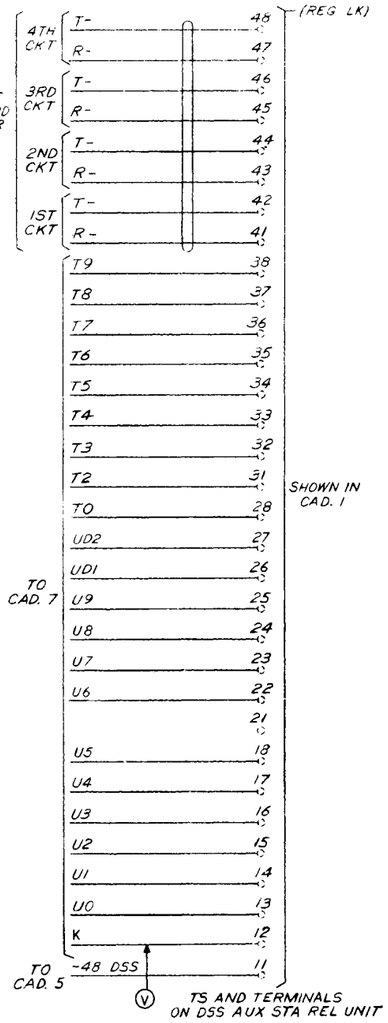
CAD. 4 (A & M ONLY)
(FOR APP FIG. 4)

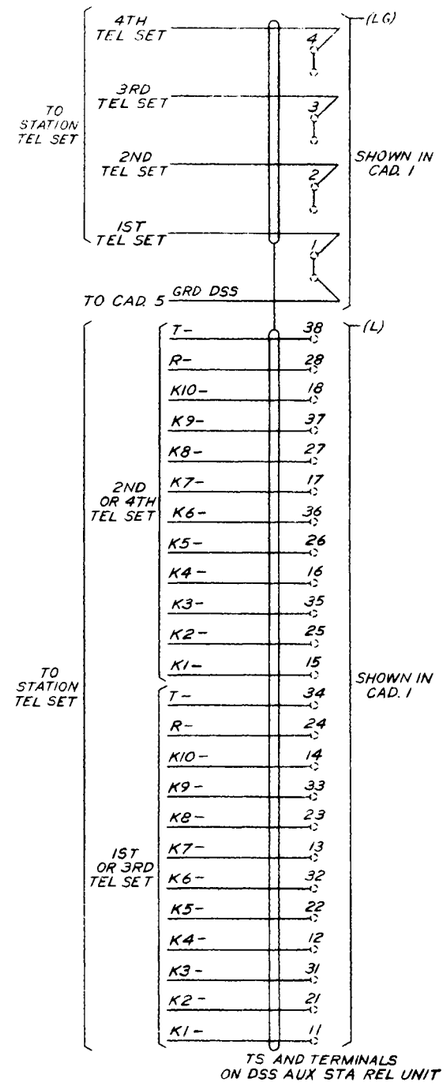


CAD. 5
(PART OF APP FIG. 1)



CAD. 6
(PART OF APP FIG. 2 & 3)





DRAWING ISSUE

1	KAM, WJS, TLO
5S	PT, WHH, PD
6S	BCM, KJS, RHP
7B	ROZ, FJS, RHP

SD-65942-01-9

7

AUXILIARY RELAY CIRCUIT

BELL TELEPHONE LABORATORIES INCORPORATED

SD-65942-01-9

SHD SIZE 6S

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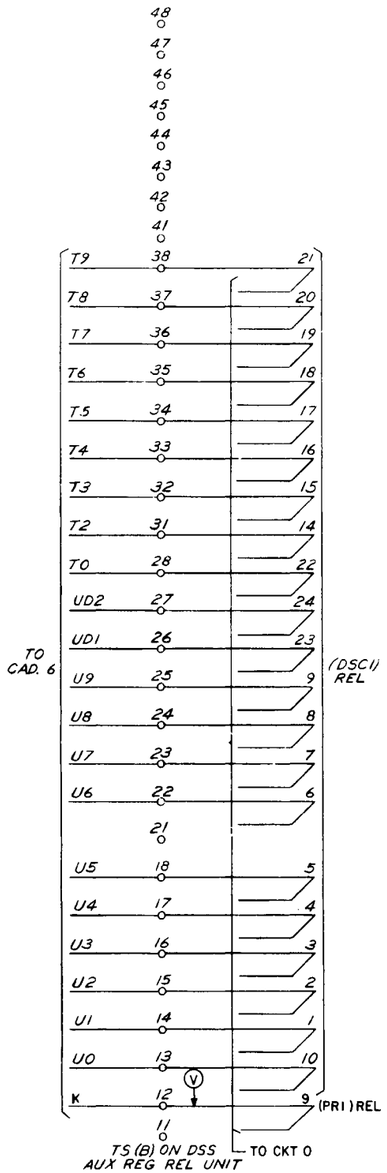
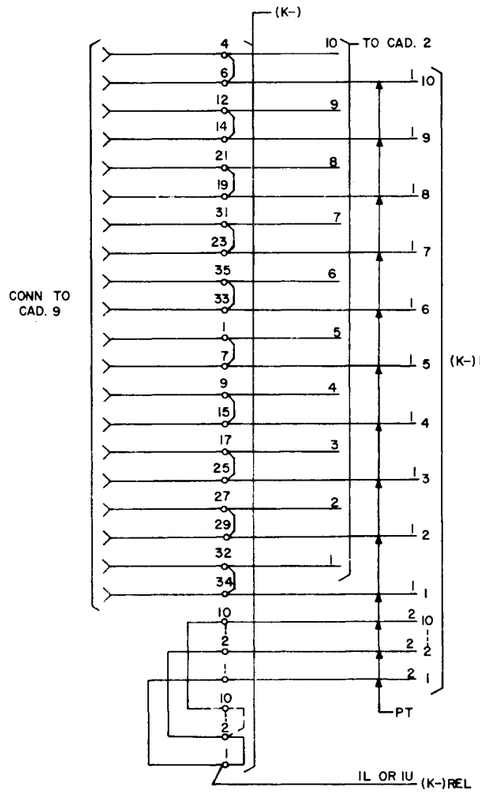
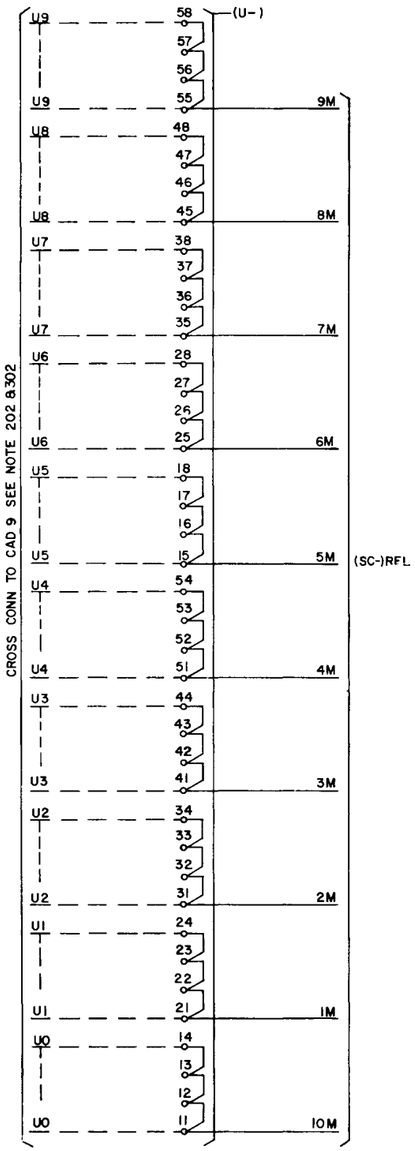
CAD 7
(PART OF APP FIG. 1)



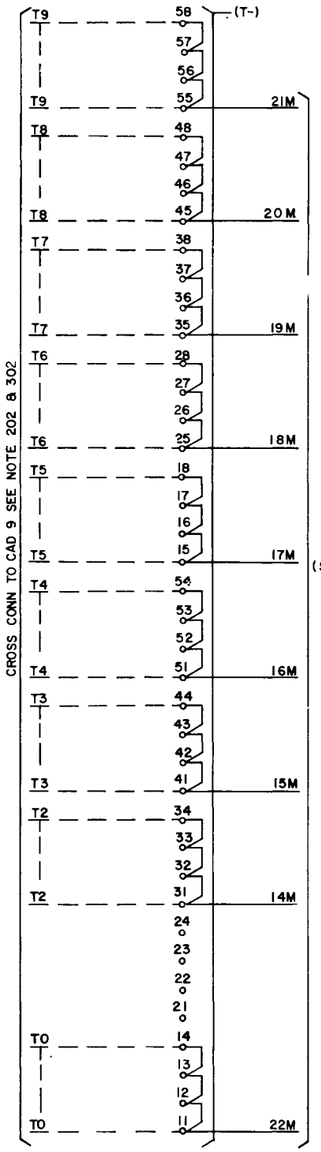
CAD 8
(PART OF APP FIG. 2)



TS AND KS-14555, L-1 CONN
ON DSS AUX STA REL UNIT

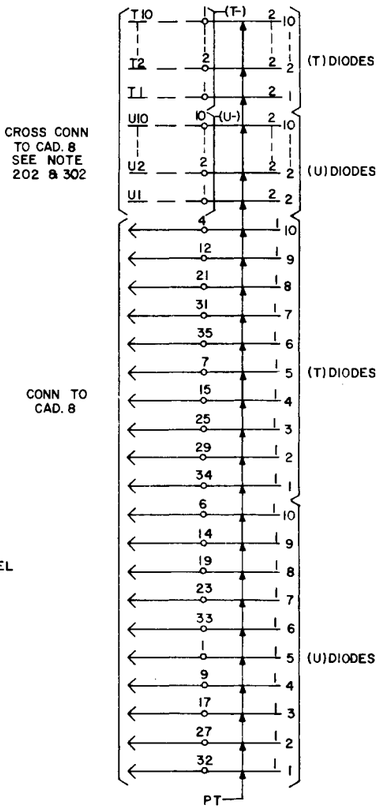


TS ON DSS
AUX STA REL UNIT



TS ON DSS
AUX STA REL UNIT

CAD 9
(FOR APP FIG. 4)



TS AND KS-14554, L-1 CONN
DIODE ASSEMBLY

ISSUE		
1	RAH	11/75
	TCB	
3D	R.T.	
	WHH	
	P.D.	
6B	BCM	
	PJS	
	RHF	
7B	ROZ	8/75
	PJS	
	RHF	

7

AUXILIARY RELAY CIRCUIT

SD-65942-01-10

BELL TELEPHONE LABORATORIES
INCORPORATED

DWG SIZE 6S

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SD-66796-01

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	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	SHEET NO.
SHEET INDEX SUPPORTING INFORMATION	A1	1	2	3	4	5	6	7	8	9	10	11																																										A1
GENERATRIX INDEX LEAD INDEX OPTION INDEX	A2	1	1	1	4	5	6	7	8	9	10	11																																										A2
FS 1 ALARM AND TRANSFER CKT	B1	1	2	2	4	5	6	6	8	9	10	10																																									B1
FS 2 MARKER ALARM FS 3 TEST CKT	B2	1	1	1	4	4	4	4	4	4	4	11																																									B2
FS 4 TRANSFER CKT	B3	1	1	1	1	1	1	1	1	1	1	1																																								B3
APP FIG. 1-9	C1	1	1	3	4	4	4	7	8	8	8	11																																								C1
CIRCUIT NOTES, EQUIPMENT NOTES INFORMATION NOTES	D1	1	1	1	4	5	6	7	8	9	9	11																																								D1
SC 1 SUPPLY POWER FAILURE SC 2 LOCAL DISTRIBUTION FUSE FAILURE SC 3 POWER PLANT FUSE FAILURE SC 4 ONE MARKER TROUBLE PER ALARM CYCLE	E1	1	1	1	1	1	1	1	1	1	1	1																																								E1
SC 5 TWO MARKER TROUBLES PER ALARM CYCLE SC 6 NIGHT SERVICE CONNECTIONS POWER FAILURE AND RESTORATION SC 7 FUSE FAILURE OR TROUBLE ALARM AT AN EXTERNALLY MOUNTED UNIT	E2	1	1	1	4	4	4	4	4	4	4	4																																								E2
CIRCUIT REQUIREMENT TABLES	F1	1	1	1	4	4	4	4	4	4	4	4																																								F1

SUPPORTING INFORMATION

CATEGORY	NO.
756A PBX CABLING DIAGRAM	SD-65746-01
756A FEATURE CABLE	SD-66920-01
EQUIPMENT DRAWINGS	J58829B J58829C ~~J58829D~~ ~~J58829E~~ J58829F J58829G J58829H J58829L J58829R
EQUIP DESIGN REQT	J58829

DWG ISSUE	CD ISSUE	DATE ISSUED	DRAWN	APP'D
1	1	3-13-62	RJB CRA	AEG HFH POB
2D	1 APP1D	7-30-62	WMA PG	SZ. HFH P.D
3D	1 APP2D	3-29-63	WMA WHH	PJH AFB P.D
4D	2D	6-29-64	RWP JrF RWC	WKS RAY KFJ
5D	2D APP1D	9-30-65	WGN SAK RCL	RRS LAH GFH
6D	2D APP2D	5-17-66	CED SAK	RLS LAH GFH
7B	2D APP3B	10-6-66	BCM PJS UT	HED LAH RHP
8D	2D APP 4D	5-16-67	FED PJS UT	JJM LAH RHP
9D	2D APP5D	11-1-67	EWE PJS RHO	WPF LAH RHP
10D	2D APP6D	11-1-67	EWE PJS ARR	RHB LAH RHP
11D	3D	11-1-67	WGN SAK RCL	JJM LAH RHP

SHEET INDEX NOTES

1. WHEN CHANGES ARE MADE IN THIS DRAWING, ONLY THOSE SHEETS AFFECTED WILL BE REISSUED.
2. 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.
3. THE ISSUE NUMBER ASSIGNED TO A CHANGED OR NEW SHEET WILL BE THE SAME ISSUE NUMBER AS THAT OF THE SHEET INDEX.
4. SHEETS THAT ARE NOT CHANGED WILL RETAIN THEIR EXISTING ISSUE NUMBER.
5. THE LAST ISSUE NUMBER OF THE SHEET INDEX IS RECOGNIZED AS THE LATEST ISSUE NUMBER OF THE DRAWING AS A WHOLE.

REPLACES SD-65743-01

11

SD-66796-01 IJ07

PBX SYSTEMS
NO. 756A
ALARM, TRANSFER & TEST CIRCUIT

(ALM. TR & TST)

BELL TELEPHONE LABORATORIES INCORPORATED

DWG SIZE 6S

BT&TCO STANDARD

SD-66796-01-A1

10 SHEETS

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E-7595(1-61)

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APPARATUS INDEX

DESIG	LOCATION FS	APP FIG.	EQUIP.
RELAYS			
A1	2A1	3	
A2	2B1	3	
A3	2D1	3	
A4	2D0	3	
AL	2B3	3	
AT	1B7	1	
ATA	1B7	2	
BCO	1D6	4	
EXT	1A7	4	
FA	1C2	4	
HO	2C3	3	
NS	1C6	2	
R	1E3	4	
RB	1D2	4	
S	1E3	4	
TR	1B4	4	

CONNECTING BLOCKS			
48V-GRD	2GI	8	
48V-HRB-GRD	2G2	9,	
T-R	2F1	7	

FUSES			
[-48V]	1DI	4	
[+48V]	1E3	4	
[-96V]	1H2	4	

KEYS			
AR	2B2, 2C1	3	
STO	3A8	5	
ST1	3B8	5	
ST2	3C8	5	

DESIG	LOCATION FS	APP FIG.	EQUIP.
LAMPS			
FA	1B5	4	
PA	1C5	4	
TR	1D4	4	
EXT	1D4	4	

RESISTORS			
A3	2D0	3	1AB
A4	2D0	3	1AB
C	1E6	4	
FA	1D2	4	
H	2B0	3	IAB
L	2B0	3	IAB
R	1HI	4	
RI	1E3	4	
RB	2G2	6	6M
S	2C3	3	IAB

VARISTORS			
S	1E2	4	

LEAD INDEX

DESIG	FS LOC	CAD. LOC
556A PBX CORD, TEL, DIAL, BAT., BUZZER & RING. CKT		
TRL	1E7	

608A OR 608D SWBD AUX SIG, FA, BCO & MISC CKT		
A	1A9	
TRL	1E7	

2 WY TRUNK CKT TO CENTRAL OFFICE		
CNO-9	1F7	
NCO-9	1F6	
NCAO-9	1G6	
NSE	1B9	
NSO	1C9	

ALARM RCVG CKT AT CENTRAL OFFICE		
WCR	1HO	
WCT	1HO	

AUX RELAY CKT		
+48V	1A3	
GRD	1A3	

CDLS POSITION CKT		
NS	1C7	
TRL	1D7	

CDLS POSITION CKT IST ATTENDANT CONSOLE		
B20	1G3	
B30	1G3	
B40	1G3	
B50	1G3	
B60	1G3	
B70	1G3	
B80	1G3	

CDLS POSITION CKT 2ND ATTENDANT CONSOLE		
B20	1G2	
B30	1G2	
B40	1G2	
B50	1G2	
B60	1G2	
B70	1G2	
B80	1G2	

CENTRAL OFFICE		
R	3H4	
T	3H4	

DESIG	FS LOC	CAD. LOC
CENTRAL OFFICE TRK CKT		
IT90	3E8	
IT91	3F8	
IT92	3F8	
ITC90	3E8	
ITC91	3E8	
ITC92	3F8	
R	3E6-3F6	
T	3E6-3F6	

DIAL PULSE REGISTER		
PL	1F5	
PLB	1F6	
RT	2D2	
RT1	2D3	

LINE, LINK & MARKER CKT		
AT	2A3	
CA	2G6	
JA	2E6	
KA	2C6	
LA	2B6	
LAI	2H3	
MT	2C3	
UA	2A6	
R	2F1	
R1	3A1-3C1	
RA	2D6	
S	3D1-3F1	
S1	3D1-3F1	
T	2F1	
T1	3A1-3C1	
TA	2C6	
TT	2B3	
UA	2E6	

MAKE BUSY & BUSY DISPLAY CKT.		
-96V	1H3	
GRD	1H3	

PBX CKT		
-48V	1A1	
GRD	1A2	

POWER SUPPLY CKT (J86281A POWER PLANT)		
-48V "A"	1CO	
-48V "B"	1CO	
GRD	1CO	
PG	1CO	

DESIG	FS LOC	CAD. LOC
POWER SUPPLY CKT (J86464K POWER PLANT)		
10V AC	1GO	
10V AC ALM	1GO	
+48V	1GO	

POWER SUPPLY CKT (J86464L POWER PLANT)		
10V AC	1EO	
10V AC ALM	1EO	
+48V	1EO	
-48V	1EO	
GRD	1EO	
RB ALM	1EO	

STATION NO. 30		
R	3B7	
SGO	3B7	
T	3B7	

STATION NO. 31		
R	3B7	
SG1	3B7	
T	3B7	

STATION NO. 32		
R	3C7	
SG2	3C7	
T	3C7	

AUXILIARY POSITION CKT		
NCO-9	1G6	
NSA	1G6	

STA MESSAGE REGISTER PULSE AND SURCHARGE CKT		
EXT	1A9	

OPTION INDEX

APP OR WRG	LOCATION
Z	1HI
Y	1GI, 1HI
X	1D6
W	1E6
V	1E6
T	1E6
S	1D1, 1E1, 1F1, 1G
R	1DI
Q	1EI, 1FI, 1GI
N	1B5
M	1D4, 1A5, 1A7,
K	1F6
J	1G6
H	1G6
G	1D2, 1E3
F	1D2, 1E3
B	1E5, 1A8
A	1GI, 1HI
ZA	APP FIG. 4, 1E2
ZB	APP FIG. 4, 1E2
ZC	1H2, 1DI, APP FIG. 4
ZD	1DI, 1EI, 1FI, 1GI
ZE	2H3

DRAWING ISSUE		
1	RJB KRA PDB	
4D	FWP JFF KFJ	HW
5D	WGN SAK GFH	
6D	CED SAK GFH	
7B	SAK - RHP	
8D	FED PJS RHP	
9D	EWE PJS RHP	
10D	EWE PJS RHP	
11D	WGN SAK RHP	

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ALARM, TRANSFER & TEST CIRCUIT (2)

SD-66796-01-A2

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FS I
ALARM AND TRANSFER RELAYS

DRAWING ISSUE

1	RJB CRA PGE
2D	WLR JPG PJD
4D	GAF JFF KFJ
5D	WGN SAK GFH
6D	CEE SAK GFH
8D	FED PJS RHP
9D	EWE PJS RHP
10D	EWE PJS RHP

TO PBX CKT
-48V
GRD
TO AUX RELAY CKT FOR DIRECT STATION SEL FROM STATIONS
GRD
+48V
TO ALL OTHER -48V FUSES IN PBX
PG
GRD
-48V "A"
-48V "B"
TO POWER SUPPLY CKT (J86281A POWER PLANT)
-48V
S,ZD
[-48V] SEE NOTE 302
FA 511 15%
FA 2L 1L FA 2450
GRD
RB ALM
RB 2U 1U FA 2450
+48V
Ⓢ TO POWER SUPPLY CKT (J86464L POWER PLANT)
ⓏⒹ TO POWER SUPPLY CKT (J86464M POWER PLANT)
[+48V] SEE NOTE 302
RI 51 15%
R 2U 1U FA 2450
S VAR 1T 1B 2T 2B 3T 3B
S 1L 2L 145
A3
10V AC ALM
-96V
10V AC
10VAC
10 VAC ALM
+48V
-96V
TO POWER SUPPLY CKT (J86464K POWER PLANT)
14 13 12 11 10 9 8 7 6 5 4 3 2 1 BCO
B80 B70 B60 B50 B40 B30 B20 B80 B70 B60 B50 B40 B30 B20
2ND ATTENDANT CONSOLE
1ST ATTENDANT CONSOLE
TO CDLS POSITION CKT
MBD(GRD)
MBD(BAT)
TO MAKE BUSY & BUSY DISPLAY CIRCUIT
[-96V] SEE NOTE 302
SEE NOTE 2
WCT
WCR
TO ALARM RCVG CKT AT CENTRAL OFFICE
R 115
-48

TR -48 FA 2U 1U 2450 AL 7 FA 2 RB 12 R 10 S 4 FA
M EXT 5 N
FA FA 4 -48 FA
R 12 -48 FA
PA RB 8 -48 FA
S 2 -48 FA
M EXT 1 -48 FA
TR FA
AT -48 FA NCA
TR -48 FA
PL RT DIAL PULSE REGISTER PLB FA -48

M EXT -48 FA 2L 1L 2450 EXT TO STATION MESSAGE REGISTER PULSE AND SURCHARGE CKT
AT -48 FA L U 2500 ATG NS 12 FA NSE TO EVEN NUMBERED TRUNK
ATA L U 2500 AT 10 FA NS FA 11 NSO TO ODD NUMBERED TRUNK
TO 2 WAY TRUNK CKT TO CENTRAL OFFICE
NS -48 FA L U 2500 NS
BCO -48 FA L U 700
NS L KEY
CDLS POSITION CKT
TR
TRL
TRLA 445 C 878 TRLB SEE NOTE 106
TRL 556A CORD, TEL DIAL, BAT. AND RING CKT TR
CF FA TRL 608A OR D AUX SIG, FA, BCO & MISC CKT 700 SH

TABLE A

NS CONT a	NCO-9 LEADS	CNO-9 LEADS
1	0	0
2	1	1
3	2	2
4	3	3
5	4	4
6	5	5
7	6	6
8	7	7
9	8	8
10	9	9

CDLS POSITION CKT PU KEY
2 WAY TRUNK CKT TO CENTRAL OFFICE
ACA NCO-9 NS CNO-9 J N1 -48
SEE TABLE A
NS FA
2 WAY TRK CKT TO CENTRAL OFFICE
NSA -48 NC
BN NC
AUXILIARY POSITION CKT

SHEET NOTES:
1. LEAD DESIGNATIONS INDICATED BY ARROWS APPLY TO LEADS BETWEEN ALARM, TRANSFER & TEST UNITS.
2. A OPTION REPLACES Y OPTION FOR CABLING AND STRAPPING PURPOSES ONLY. NO CIRCUIT CHANGE IS MADE.

10

ALARM, TRANSFER & TEST CIRCUIT (2)
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FS 2
MARKER ALARM

SHEET NOTES:
1. LEAD DESIGNATIONS INDICATED BY ARROWS APPLY TO LEADS BETWEEN ALARM, TRANSFER AND TEST UNITS.

DRAWING ISSUE
1 KKR PJA
4D RKU JFF KFJ
11D MGN SAK RBF

A1 2L IL 280
A2 IU 2U 185
A4 IU 2U 2450
A3 2L IL 2450
AR NL KEY
AL 950
HO 1625
S 8060 ±1%
L 600 ±1%
H 900 ±1%
A4 700 700
A3
DC DIAL PULSE REGISTER
RT RT1
FA A2
MTA MTB
TS TT AT
XCAL COAL TOALA
UAL2 UAL RLAL TAAL JRAL TAL TRAL LALI LAL2A UALIA MAL
TOAL TOALA LAL2A LAL2 LALI TRAL TAL TAAL MAL RLAL JRAL UAL2 UAL UALIA UALI TS LCKI LCK2
OA LA KA TA RA JA UA CA
COAL XCAL LAI ZE
LINE, LINK & MARKER

FS 3
TEST CKT

TEST LINE T&R
T & R LINE 39
LINE, LINK & MARKER
TB FT -48 48V
RB 1000 HRB GRD

ALARM, TRUNKS & TEST CIRCUIT
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SD-56726-01-02
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FS 4
TRANSFER CKT

DRAWING ISSUE
1 R.J.E. K.R.M. 7-28-69

L30 LHM TI
-48 LHM RI
L31 LHM TI
-48 LHM RI
L32 LHM TI
-48 LHM RI
LHM30 -48 SI
SO S 3 AT FA
LHM31 -48 SI
SI S 6 AT FA
LHM32 -48 SI
S2 S 9 AT FA
LINE, LINK & MARKER

AT 1
AT 2
AT 4
AT 5
AT 7
AT 8

SEE NOTE 1
TIT TIR T2T T2R T3T T3R

ATA 1
ATA 2
ATA 3
ATA 4
ATA 5
ATA 6

0 1 2
TO CENTRAL OFFICE

STATION NO. 30
STATION NO. 31
STATION NO. 32
T R SGO SGI SG2

STO NL KEY AT STATION 30
STI NL KEY AT STATION 31
ST2 NL KEY AT STATION 32
AP
SEE NOTE 105

R R
18 T ITC90 ATA 9 IT90
18 T ITC91 ATA 10 IT91
18 T ITC92 ATA 11 IT92 FA
CENTRAL OFFICE TRK CKT 0, 1 & 2

SHEET NOTES:
1. LEAD DESIGNATIONS INDICATED BY ARROWS APPLY TO LEADS BETWEEN ALARM, TRANSFER AND TEST UNITS.

PBX SYSTEMS
NO. 756A
ALARM, TRANSFER & TEST CIRCUIT
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SD-66796-01-B3

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APP FIG. 1

RELAY

DESIG	AT					
CODE	AJ5					
OPTION						
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC
12	EBM					
11	EBM	1E4				
10	EBM	1C7				
9	EBM	3G2				
8	EBM	3C5				
7	EBM	3C4				
6	EBM	3E2				
5	EBM	3B4				
4	EBM	3B4				
3	EBM	3D2				
2	EBM	3B3				
1	EBM	3B3				
COIL		1B7				

APP FIG. 2

RELAY

DESIG	ATA				NS			
CODE	AJ5				AJ5			
OPTION								
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC
12	EBM				EBM	1B8		
11	EBM	3F8			EBM	a		
10	EBM	3E8			EBM	1F7		
9	EBM	3E8			EBM	1F7		
8	EBM				EBM	1F7		
7	EBM				EBM	1F7		
6	EBM	3G5			EBM	1F7		
5	EBM	3F5			EBM	1F7		
4	EBM	3F4			EBM	1F7		
3	EBM	3E4			EBM	1F7		
2	EBM	3E3			EBM	1F7		
1	EBM	3E3			EBM	1F7		
COIL		1B7				1G6		

a 1G8, 1G7

APP FIG. 3

RELAY

DESIG	A1		A2		A3		A4		AL				HO				DESIG
CODE	AK3				AK4				AF33				AG12				CODE
OPTION																	OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12			BM	2D2			M		M	2H2							12
11			BM	2A3			EBM	2E1	M	2G6							11
10							EBM		M	2B3							10
9							EMB		M	2C6							9
8							EMB	2B2	M	2A6			M				8
7									B	1B4			B				7
6									M	2C6			M	2B2			6
5					EMB	2D1			B	2A2							5
4					EMB	1F3			M	2E6			M				4
3					EBM				M	2B6							3
2	BM	2A2			EBM				M	2D6							2
1	BM				M				M	2F6							1
COIL		2A1		2B1		2D1		2D0		2B3				2C3			COIL

KEY

547B

AR

1 — 2 — 3 — 2C1

4 — 5 — 6 — 2B2

RESISTOR

	DESIG	LOC	CODE
[1]	A3	2D0	19RL
	A4	2D0	
[1]	H	2B0	19TR
	L	2B0	
	S	2C3	107A, 8060

APP FIG. 4

RELAY

DESIG	FA		RB		R		S						EXT		TR				DESIG
CODE	AK24				AK9								AK4						CODE
OPTION													M						OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12			BM	1B5	M	1C4									M				12
11			BM												EBM	1F4			11
10					B	1B5									EBM	1H1			10
9			M												EMB				9
8			M	1C4	BM										EMB	1H1			8
7																			7
6																			6
5	M												EMB	1A5					5
4	M	1B4					B	1B6					EMB						4
3													EBM						3
2	BM	1B5					M	1D4					EBM						2
1	BM												M	1D4					1
COIL		1C2		1D2		1E3		1E3						1A7		1B4			COIL

FUSE

	DESIG	LOC	CODE
SEE NOTE 302	[86] [-48V]	1D1	70A
(ZA)	[+48V]	1E3	70E
(ZB)	[-48V]	1E3	70P
(ZC)	[-96V]	1H2	70E

LAMP

	DESIG	LOC	CODE
	FA	1B5	2Y
	PA	1C5	2Y
	TR	1D4	2Y
(M)	EXT	1D5	2Y

RESISTOR

DESIG	LOC	CODE
C	1E6	19LP
(F) FA	1D2	KS-14603, L2A, 511
R	1H1	59D
(F) RI	1E3	KS-14603, L2A, 511

VARISTOR

DESIG	LOC	CODE
S	1E2	27J

DESIG	BCO			
CODE	AJ202			
OPTION				
	CONT ARR	LOC	CONT ARR	LOC
24	M			
23	M			
22	M			
21	M			
20	M			
19	M			
18	M			
17	M			
16	M			
15	M			
14	M	1G3		
13	M	1G3		
12	M	1G3		
11	M	1G3		
10	M	1G3		
9	M	1G3		
8	M	1G3		
7	M	1G3		
6	M	1G3		
5	M	1G3		
4	M	1G3		
3	M	1G3		
2	M	1G3		
1	M	1G3		
COIL		1D6		

APP FIG. 5

KEY

551A – (SEE NOTE 1)

STO STI ST2

3A8 3B8 3C8

APP FIG. 6

RESISTOR

DESIG	LOC	CODE
RB	2G2	18BH

APP FIG. 7

CONNECTING BLOCK

DESIG	LOC	CODE
T-R	2F1	~~55D~~ 73C

APP FIG. 8

CONNECTING BLOCK

DESIG	LOC	CODE
48V-GRD	2G1	~~55C~~ 73B

APP FIG. 9

CONNECTING BLOCK

DESIG	LOC	CODE
48V-HRB-GRD	2G2	~~55E~~ 73A

SHEET NOTE

1. COLOR SUFFIX TO BE IN ACCORDANCE WITH CUSTOMERS ORDER.

DRAWING ISSUE

1	RJP CRA POB
3D	~~ABK~~ WH PD
4D	GAB JFF KFJ
7B	BCN PJS RHP
8D	FED AJS RHP
11D	WGN SAK RHP

ALARM, TRANSFER & TEST CIRCUIT (2)

SD-66796-01-C1

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CIRCUIT NOTES:

101.

DESIG	FUSE AMP	POTENTIAL	ONE PER
FA	1-1/3	-48	PBX
FT	1-1/3	-48	PBX
FA		GRD	PBX

BATTERY SYMBOL	VOLTAGE RANGE
-48	45-52V

102.

FEATURE OR OPTION			PROVIDE APP FIG.	PROVIDE APP OR WRG	PROVIDE QUANTITY
ALARM AND TRANSFER CKT			1,2,3,4	F,M,ZC	ONE PER PBX
TEST CKT			6,7,9		ONE PER PBX
			8		ONE PER PBX
STATION DIAL TONE START			5		ONE PER EMERGENCY STATION LINE
TYPE OF ALM REQD	MARGINAL			Z	
	BAT. REV			A	
CONNECTED TO TROUBLE ALARM LAMP AT	ONE CONSOLE			V	
	TWO CONSOLES			X	
	556A SWITCHBOARD			T	
	ONE CONSOLE AND 556A SWITCHBOARD			T,V	
	TWO CONSOLES AND 556A SWITCHBOARD			X,W	
	608A OR 608D CORD SWBD			B,T	
	ONE CONSOLE AND 608A OR 608D CORD SWBD			T,V,B	
POWER PLANT TYPE PROVIDED	BATTERYLESS			S	
	BATTERY RESERVE	WITH +48V DC & 10V AC APPLIQUE		Q,R, ZD	
		WITHOUT +48V DC & 10V AC APPLIQUE		R	
REMOTE TRUNK ANSWERING	REQUIRED			J	
	NOT REQUIRED			H,J	

103.

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

CIRCUIT NOTES (CONT):

104.

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	USE IN CIRCUIT A&M	USE IN CIRCUIT MD	
4D	M OR N	N		M		N	
	H,J OR K	K	102	H,J		K	
	F OR G	G		F		G	
5D	B	NONE	102 201	B			
6D	Y OR A	Y	107, 102	A		Y	
7B	ZA OR ZB	ZA	108	ZB		ZA	
8D	ZC	NONE	102	ZC			
9D	R,Q OR ZD	R,Q	102	ZD	Q	R	
11D	ZE	NONE		ZE			

105. "AP" GROUND WILL BE THE SAME AS THAT WHICH SUPPLIES THE CORDLESS POSITION CIRCUIT.

106. "T", "V", "W" AND "X" OPTIONS ARE APPLIED AT A CROSS CONNECTION BOX.

107 'A' OPTION REPLACES 'Y' OPTION FOR CABLING AND STRAPPING PURPOSES ONLY. NO CIRCUIT CHANGE IS MADE.

108. THE +48 VOLT FUSE TYPE 70E OPTION ZA IS CHANGED TO TYPE 70P OPTION ZB IN CONJUNCTION WITH THE ADDITION OF A 13N RESISTANCE LAMP IN THE 756A PBX AUXILIARY RELAY CIRCUIT.

EQUIPMENT NOTES:

201. WHEN A 608A OR 608D SWITCHBOARD ISSUED AS AN ATTENDANT POSITION THE INSTALLER SHALL PROVIDE "B" OPTION STRAP AT RESISTOR C.

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. PBX FUSING INFORMATION:

-48V FUSE DESIG	ASSOC PBX CKT
A-H,J,K,L,L2-7,M,N,P-S, SO,S1,S23,S45,S67,S89, T,TO,T1,TR,UA,UB,X,Y	LINE, LINK & MARKER
RAO,I, RBO,I, RCO,I	DIAL PULSE REGISTER
JTO-5	JUNCTOR
COO-2,CO5-7,FC1,FC2	TWO WAY TRUNK TO CENTRAL OFFICE
CO3,CO4,CO8,CO9	TWO WAY TRUNK TO CENTRAL OFFICE OR RINGDOWN TIE TRUNK
AT1,AT2,AT3	ATTENDANT TRUNK
BT	BUSY TONE TRUNK
AP1,AP2	CORDLESS POSITION
FA,FT	ALARM TRANSFER & TEST
SB-SG	NO. 556A PBX SWITCHBOARD
DSS	AUX REL CKT FOR DIRECT STATION SELECTION FROM STATIONS
T80-89	MISC CKT AND TRUNKS

+48V FUSE DESIG	ASSOC PBX CKT
DSS	AUX REL CKT FOR DIRECT STATION SELECTION FROM STATIONS

-96V FUSE DESIG	ASSOC PBX. CKT.
MBD	MAKE BUSY & BUSY DISPLAY CIRCUIT

303 INFORMATION IN BRACKETS [ ] IS FOR REFERENCE ONLY.

DRAWING ISSUE	
	JR CLB PJS
4D	BF JFF RFJ
5D	TCH SAK GFH
6D	CED SAK GFH
7B PM	BCM PJS RHP
8D	FED PJS RHP
9D	EWE PJS RHP
11D	WGN SAK RHP

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ALARM, TRANSFER & TEST CIRCUIT (2)

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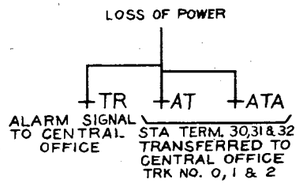
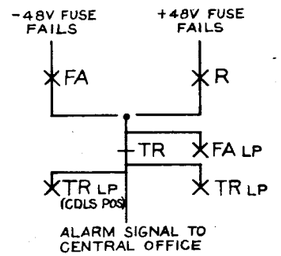
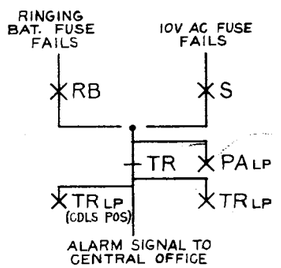
SC 1
SUPPLY POWER FAILURE



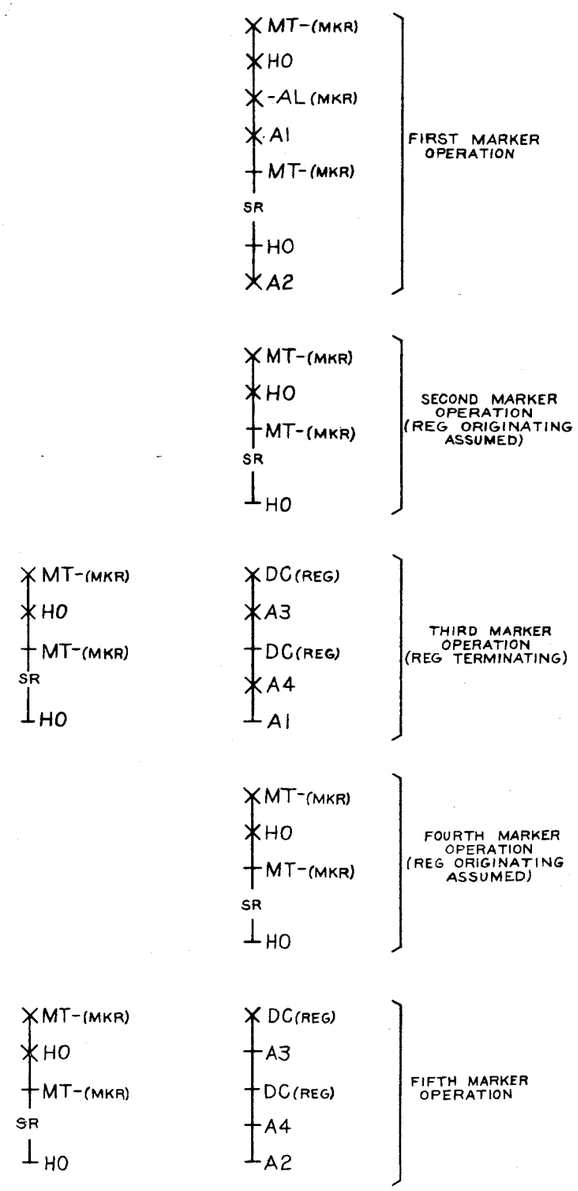
SC 2
LOCAL DISTRIBUTION FUSE FAILURE



SC 3
POWER PLANT FUSE FAILURE



SC 4
ONE MARKER TROUBLE PER ALARM CYCLE



DRAWING ISSUE
1 Add CRA Pos

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SD-66796-01-E1

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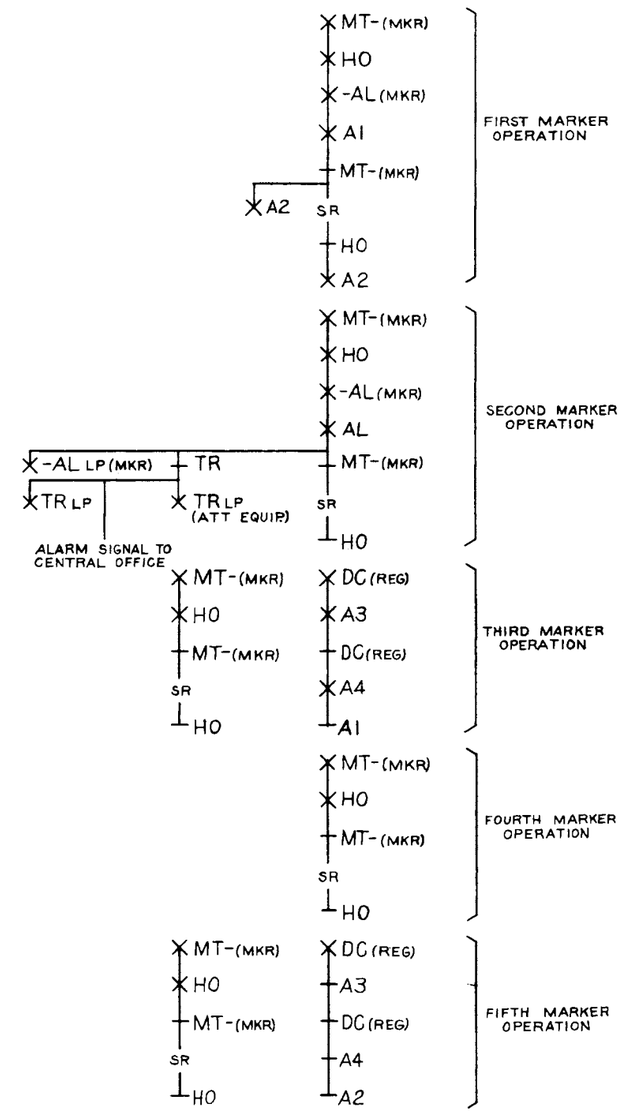
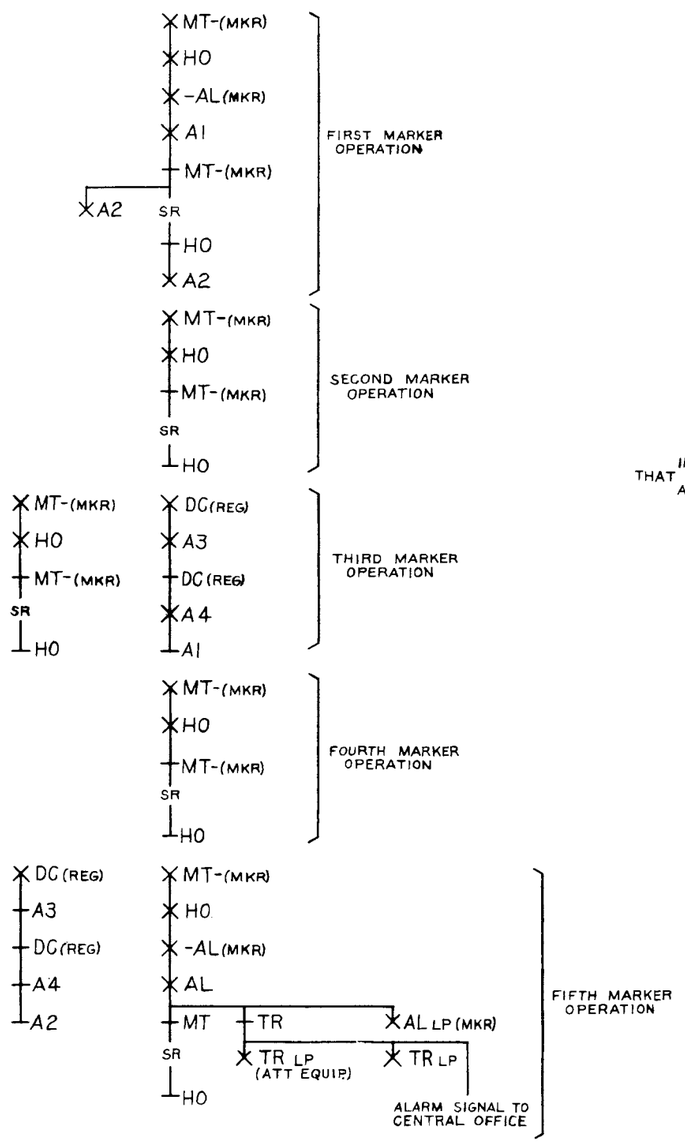
SC 5
TWO MARKER TROUBLES
PER ALARM CYCLE

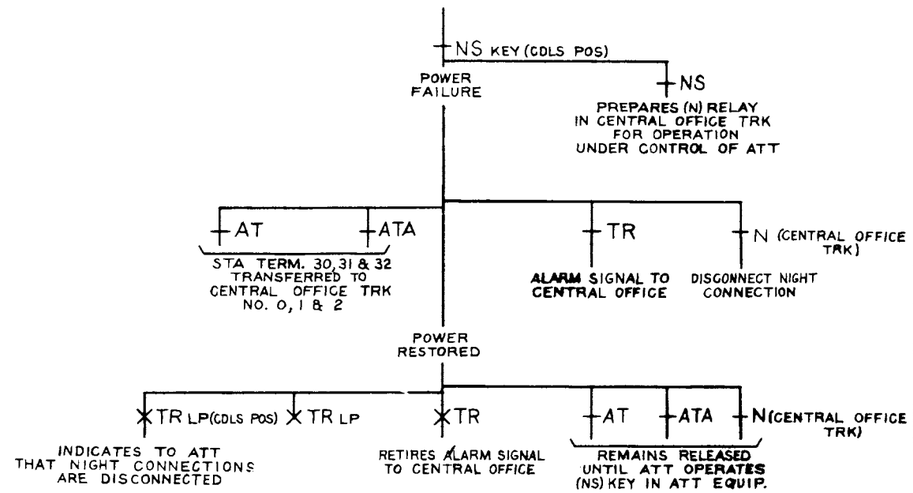
(CASE I - TWO SUCCESSIVE TROUBLES)



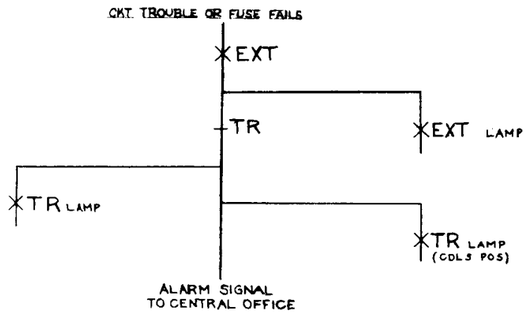
(CASE II - TWO SEPARATED TROUBLES)



SC 6
NIGHT SERVICE CONNECTIONS
POWER FAILURE AND RESTORATION



SC7
FUSE FAILURE OR TROUBLE
ALARM AT AN EXTERNALLY
MOUNTED UNIT



DRAWING ISSUE

1	RJB CRA POB
4D	RWC JFF MFJ

SD-66796-01-E2

4

PBX SYSTEMS
NO. 756A
ALARM, TRANSFER & TEST CIRCUIT

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CIRCUIT REQUIREMENTS

NO. 756A ALARM, TRANSFER & TEST CKT

DRAWING ISSUE: 1 (RJB, CRA, POB) 4D (RWF, JFF, KFJ)

APPARATUS DESIG	APPARATUS CODE	APPARATUS OPT	APPARATUS FIG.		MECH REQT BSP FIG.	MECH REQT CONT PRESS.	MECH REQT ARM. TRVL	CIRCUIT PREPARATION BLOCK OR INSULATE	CIRCUIT PREPARATION TEST CLIP DATA CONN BAT.	CIRCUIT PREPARATION TEST CLIP DATA CONN GRD	TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT TEST WDG	DIRECT CURRENT FLOW REQT TEST FOR	DIRECT CURRENT FLOW REQT AFTER SOAK MA.	DIRECT CURRENT FLOW REQT TEST MA.	DIRECT CURRENT FLOW REQT READJ MA.	REMARKS
RELAYS																		
A1	1/2 AK3		3		3			8B(A4)		1L(A1)	GRD			0		27.5	26	MOUNTED WITH (A2)
A2	1/2 AK3		3		3			8(A4)	2U(A2)		BAT.			0		33	31	MOUNTED WITH (A1)
A3	1/2 AK4		3		202									0		11.9	11.3	WINDING ALONE
								5M(A3) 11B(A4) (A4)NO		1L(A3)	GRD	1		0		26	25	CKT COMB. OF (A3) & (A4)
A4	1/2 AK4		3		202									0		11.9	11.3	WINDING ALONE
								5B(A3) (A3)NO		1U(A4)	GRD	2		0		26	25	CKT COMB. OF (A3) & (A4)
AL	AF33		3		16			10M(AL)		U(AL)	GRD			0		13.4	12.8	
AT, ATA	AJ5		1		220									0		13.2	12.6	WINDING ALONE
			2					10M(AT) 11B(AT) 12M(NS)		U REL TST	GRD			0		29.5	28	CKT COMB. OF (AT) & (ATA)
BCO	AJ202		4		500									0		42.5	40.5	WINDING ALONE
										U(BCO)	GRD			0		58	55	CKT COMB. OF (NS) & (BCO)
EXT	1/2 AK4	M	4		202					1L(EXT)	GRD			0		11.9	11.3	MOUNTED WITH (TR)
FA	1/2 AK24		4		12				2L(FA)		BAT.			0		7.8	7.4	MOUNTED WITH (RB)
HO	AG12		3		383									0		6.8	6.4	WINDING ALONE
														R		0.4	0.6	
										U(HO)	GRD			0		8.4	7.9	CKT COMB. OF (HO)
										U(HO)	GRD			R		0.5	0.7	REL & (S) RES
NS	AJ5		2		220									0		13.2	12.6	WINDING ALONE
										U(NS)	GRD	3		0		71	68	CKT COMB. OF (NS) & (BCO)

TEST NOTES:

1. MOUNTED WITH (A4).
2. MOUNTED WITH (A3).
3. OPERATE (NS) KEY IN ATTENDANT EQUIPMENT DURING TEST.

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NO. 756A ALARM, TRANSFER & TEST CIRCUIT — SD-66796-01-FI

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CIRCUIT REQUIREMENTS

DRAWING ISSUE: 1 (RJB, CRA, POB) 4D (RWF, JFF, KFJ)

APPARATUS DESIG	APPARATUS CODE	APPARATUS OPT	APPARATUS FIG.		MECH REQT BSP FIG.	MECH REQT CONT PRESS.	MECH REQT ARM. TRVL	CIRCUIT PREPARATION BLOCK OR INSULATE	CIRCUIT PREPARATION TEST CLIP DATA CONN BAT.	CIRCUIT PREPARATION TEST CLIP DATA CONN GRD	TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT TEST WDG	DIRECT CURRENT FLOW REQT TEST FOR	DIRECT CURRENT FLOW REQT AFTER SOAK MA.	DIRECT CURRENT FLOW REQT TEST MA.	DIRECT CURRENT FLOW REQT READJ MA.	REMARKS
R	1/2 AK9		4		5				2U(R)		BAT.			0		7.8	7.3	MOUNTED WITH (S)
RB	1/2 AK24		4		12				2U(RB)		BAT.			0		7.8	7.4	MOUNTED WITH (FA)
S	1/2 AK9		4		5			4(A3)	2L(S)	1L(S)	B/G			0		25	24	MOUNTED WITH (R)
TR	1/2 AK4		4		202			5(FA)		1U(TR)	GRD			0		11.9	11.3	MOUNTED WITH (EXT)

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PBX SYSTEMS
NO. 756A ALARM, TRANSFER & TEST CIRCUIT — SD-66796-01-FI

BELL TELEPHONE LABORATORIES INCORPORATED — DWG SIZE 6S — PRINTED IN U. S. A.

SD-66796-01-FI

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FS1 OFF NORMAL AND CALLING CONTROL	B1	5	**6**	7																																														B1
FS2 STEERING, CONNECT, AND BUSY BACK CONTROL	B2	5	**6**	6																																														B2
FS3 CALLING PORTS	B3A	5	**5**	5																																														B3A
	B3B	5	**6**	6																																														B3B
FS4 RINGING AND TRANSFER CONTROL	B4	5	**5**	5																																														B4
FS5 CONFERENCE AMPLIFIER	B5	5	**5**	5																																														B5
FS6 PRIVATE CONSULTATION CONTROL	B6	5	**5**	5																																														B6
APP FIG. 1	C1	5	**6**	7																																														C1
APP FIG. 2 & 3	C2	5	**6**	6																																														C2
CIRCUIT NOTES INFORMATION NOTES	D1	5	**5**	5																																														D1
INFORMATION NOTES (CONTINUATION)	D2	5	**5**	5																																														D2
	D3	5	**5**	5																																														D3
SC1 ORIGINATING A CONFERENCE SC2 (MD) ADDING A STATION (WITHOUT CONSULTATION) SC3 CONTROLLER LEAVES CONFERENCE TO ADD A STATION OR TRUNK	E1	5	**5**	5																																														E1
SC 4 CONTROLLER RETURNS TO CONFERENCE AFTER DIAL TONE OR PARTIAL DIALING SC 5 CONTROLLER RETURNS TO CONFERENCE WHEN CALLED STATION OTHER THAN DIAL REPEATING TIE TRK STA IS BUSY OR DA SC 6 (MD) CONTROLLER AND CONSOLE ATTENDANT ADD CO TRK PARTY TO CONFERENCE; CKT NOT EQUIPPED FOR CONSULTATION SC 7 (MD) CONTROLLER RELEASES FROM ATTENDANT TRK WITH PORTS 1-4 IN USE AND PORT 5 RESERVED FOR CO TRK CONNECTION	E2	5	**5**	5																																														E2

SUPPORTING INFORMATION

CATEGORY	NO.
EQUIPMENT DWGS	J-58829AD-( )
EQUIPMENT DESIGN REQ	J-58829

SHEET INDEX NOTES

1. WHEN CHANGES ARE MADE IN THIS DRAWING, ONLY THOSE SHEETS AFFECTED WILL BE REISSUED.
2. 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.
3. THE ISSUE NUMBER ASSIGNED TO A CHANGED OR NEW SHEET WILL BE THE SAME ISSUE NUMBER AS THAT OF THE SHEET INDEX.
4. SHEETS THAT ARE NOT CHANGED WILL RETAIN THEIR EXISTING ISSUE NUMBER.
5. THE LAST ISSUE NUMBER OF THE SHEET INDEX IS RECOGNIZED AS THE LATEST ISSUE NUMBER OF THE DRAWING AS A WHOLE.

DWG ISS	CD ISS	DWG ISS	CD ISS	DWG ISS	CD ISS
1	1	2D	1 APP 1D	3D	1 APP 2D
4D	1 APP 3D				

DWG ISS	CD ISSUE	DATE	DRAWN	APPD.
5D	2D	5-23-66	JJH SAK RCL	RRS RAV GFH
6D	2D APP 1D	1-12-67	BMM PJS RCL	RRS LAH RHP
7A	2D APP 2A	3-24-67	ROZ PJS RRR	RRS LAH LDJ

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SD-66902-01 IJ07

PBX SYSTEMS
NO. 756A
DIAL CONFERENCE TRUNK CIRCUIT
STATION CONTROLLED

(2)
(DIAL CONF STA CONT)

AT & T CO
STANDARD

SD-66902-01-AI
29 SHEETS

BELL TELEPHONE LABORATORIES
INCORPORATED

DWG SIZE 6S

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E-79205 (4-66)

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APPARATUS INDEX

DESIG	LOCATION FS	APP FIG.	EQPT
RELAYS			
BC1	2B4	1	2-AA
BC2	2B5	1	2-AA
BC3	2B6	1	2-AA
BC4	2B7	1	2-AA
BC5	2B8	1	2-AA
BC5S	6H3	3	2-Y
BCH1	2F6	1	2-Z
BCH2	2F6	1	2-Z
BCH3	2F6	1	2-Z
BCH4	2F6	1	2-Z
BCH5	2F6	1	2-Z
BRI	6C3	3	2-Y
BR2	6C3	1	2-AA
BY	4B6	1	2-Z
CF	6G3	3	2-Y
CO	3B/B6	2	2-Z
CRI	2D4	1	2-AA
CR2	2D5	1	2-AA
CR3	2D6	1	2-AA
CR4	2D7	1	2-AA
CR5	2D8	1	2-AA
CRDK	2C8	1	2-AA
DO	1G4	1	2-AA
DOA	1H4	3	2-Y
DOM	2A9	1	2-AA
DOR	1C3	1	2-AA
DI	1F7	1	2-AB
D8	1D4	1	2-AA
D9W	2F4	1	2-AB
FO	4F8	1	2-AB
FOM	4E9	1	2-Z
L	1E8	1	2-AB
MC	1F4	1	2-AA
ON	1B2	1	2-AA
ONA	1C2	1	2-Z
ONRL	1E6	1	2-AA
P			
PM	1H8	1	2-AB
PMR	6F3	3	2-Y
RRL	4G8	1	2-Z
RS	1E4	1	2-AB
RSI	6A3	3	2-Y
RT	4F5	1	2-Z
RV	2B3	1	2-AB
S1	3A/E1	1	2-AB
S2	3A/F3	1	2-AB
S3	3A/F5	1	2-AB
S4	3A/F7	1	2-AB
S5	3B/G4	1	2-AB
SRC	1A2	1	2-AB
TE	4B8	1	2-Z
TEA	4C8	1	2-AB
TP1	4B3	1	2-AB
TP2	4B3	1	2-AB
TP3	4C3	1	2-AB
TP4	4D3	1	2-AB
TP5	4D3	1	2-AB
TPDK	4DO	1	2-AA
Z	2H4	1	2-AA

DESIG	LOCATION FS	APP FIG.	EQPT
INDUCTORS			
L1	3B/F2	2	2-Z
L2	3A/H1	3	2-Y

DESIG	LOCATION FS	APP FIG.	EQPT
RESISTORS			
DO	1G4	3	2-Y
FO	4D9	2	
P	4G4	3	2-Y
RD	1E5	1	
RO	1C8	1	2-AA
RI	3A/E1	1	2-AB
R2	3A/E3	1	2-AB
R3	3A/E5	1	2-AB
R4	3A/E7	1	2-AB
R5	3B/E3	1	2-AB
R6	2G5	1	2-Z
R7	2H5	1	2-Z
RE	1D6	1	2-Z
RS	1A8	1	2-Y
M	4G4	3	
S1	3A/G1	1	2-Z
S2	3A/H2	1	2-Z
S3	3A/H5	1	2-Z
S4	3A/H6	1	2-Z
S5	3B/H1	1	2-Z
T	4D9	2	
T2R	3B/D0	3	
T2T	3B/D0	3	

DESIG	LOCATION FS	APP FIG.	EQPT
DIODES			
A	4G4	1	2-AB
B	4G3	1	2-AB
BC5	2C8	3	
BRI	6D3	3	
COO	1B3	2	
CO1-4	2F6	2	
D8	1C3	3	
FO	4F8	2	
RSI	6C1	3	
RT	4G5	3	

DESIG	LOCATION FS	APP FIG.	EQPT
CAPACITORS			
A	1B8	1	2-AA
B	3A/E1	1	2-AB
C	3A/E3	1	2-AB
D	3A/E5	1	2-AB
E	3A/E7	1	2-AB
F	3B/E3	1	2-AB
G	4H1	1	2-AB
H	4H2	1	2-AB
K	4G2	1	2-Z
L	1D6	1	2-Z
P	4G4	3	

DESIG	LOCATION FS	APP FIG.	EQPT
THERMISTOR			
A	2D2	1	2-AB
B	1C1	1	2-Z
C	4G7	1	2-Z

DESIG	LOCATION FS	APP FIG.	EQPT
REPEAT COIL			
T1	4F3	1	2-Z

DESIG	LOCATION FS	APP FIG.	EQPT
VARISTORS			
FO1	4D9	2	
FO2	4D9	2	

DESIG	LOCATION FS	APP FIG.	EQPT
CONNECTORS			
CA	5B0	1	
FO	4C8	2	
RD	1E5, 4A8	1	

DESIG	LOCATION FS	APP FIG.	EQPT
PLUG IN UNITS			
CA	5D4	1	
FO	4A8	1	
	4D8	2	
RD	1C6	1	
	1E4		

LEAD INDEX

DESIG	FS LOC
LINE LINK & MARKER CKT	
CCC	1H1
DO	1G1
D8	1D1
D9	2H2
HM5	1B5
IT5	1B4
MONI	3B/B5
MON2	3B/B5
OTG	2F7
RI	3A/A0
RI	3A/A2
RI	3A/A4
RI	3A/A6
RI	3B/A1
R2	1A7
RLS	1F1
RS	1E1
SI	3A/A0
SI	3A/A2
SI	3A/A4
SI	3A/A6
SI	3B/A1
S2	1A6
TI	3A/A0
TI	3A/A2
TI	3A/A4
TI	3A/A6
TI	3B/A1
T2	1A7

DESIG	FS LOC
PWR SUPORRING(INT) CKTS	
BT	4H1
RING G OR RG	4F6
RI	4F6

DESIG	FS LOC
6 PORT CONFERENCE CKT	
RO	1B8
RI	3A/D1
R2	3A/D3
R3	3A/D5
R4	3A/D7
R5	3B/D3
TO	1C8
TI	3A/D1
T2	3A/D3
T3	3A/D5
T4	3A/D7
T5	3B/D3

DESIG	FS LOC
REL TIME DEL CKT, RD	
ON1	1D6
ON2	1D6
ON3	1D6
ON4	1D5
RD1	1E5
RD2	1E5
RD3	1E5
RD4	1D5

DESIG	FS LOC
552A,B,D,E,605A,607A,B, OR 608A JACK CKT	
R	3B/C4
S	3B/D4
SL	3B/C4
T	3B/C4

DESIG	FS LOC
REL TIME DEL CKT, FO	
FO1	4D8
FO2	4C8
FO3	4D8
FO4	4C8, 4B8
FO5	4B8
FO6	4B8
FO7	4B8

DESIG	FS LOC
608D JACK AND LAMP CKT	
R	3B/C4
S	3B/D4
SL	3B/C4
T	3B/C4

OPTION INDEX

APP OR WIRING	LOCATION
3	APP FIG. 3, 1F7 1C4, 1D3, 1F6, 1G3, 1G4, 1G7, 1G8, 2E7, 2E8, 2E9, 2C9, 2F1, 4E3, 4G4, 2F0, 4H3, 2G6
2	APP FIG 2, 2F6, 3B/E2, 3B/F2, 4F8
Z	1B1, 1C0, 1C2, 2F5, 2F6, APP FIG. 1
Y	1B1, 1C0, 1C1, 1C2, 2E5, 2F5, 2F6, APP FIG 1
W	3B/G2, 3B/G3, 4F8, 4E9, 3B/C1, 2
V	1C0-3, 1D3, 1D5, 1D6, 1F6, 1G3, 1G8, 1H4, 2E0, 2D8, 2F1, 2F6, 3B/H2, 3B/H3, 1F7 2C4, 2C9, 2B4, 2B5-B, 2E7, 2G6 4E7, 4G4, 5G1, APP FIG 1 & 2, 4F4, 4C9
T	APP FIG 1
S	APP FIG 1
R	APP FIG 1
Q	APP FIG 1
N	6C1
M	1D5, 1E6, 4C9, 4E4, 5G1, APP FIG. 1

DRAWING ISSUE	
1	EJV KFJ
3D	JJH RKU GFH
4D	PJS RKU GFH
5D	JJH SAK GFH
6D	PJS RHF
7A	ROZ PJS LDJ

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DIAL CONFERENCE TRUNK CIRCUIT (2)

SD-66902-01-A2

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SC8 CONTROLLER RECALLS CONSOLE ATTENDANT TO CO TRK WITH ALL PORTS IN USE AND A TRK ON PORT 5 SC9 CONTROLLER DIALS 9 OR 9_ TO GET CO TRK AND SERVICE IS DENIED SC10 ORIGINATOR DISCONNECTS WHILE REGISTER IS ATTACHED	E3	5	5	5																																														E3
SC11 ORIGINATOR DISCONNECTS WHILE ON CONFERENCE AMPLIFIER SC12 ADDED STATION DISCONNECTS WITH ORIGINATOR IN CONTROL AND 3 OR MORE STATIONS IN CONFERENCE SC13 ADDED STATION NOT IN CONTROL DISCONNECTS WITH ORIGINATOR DISCONNECTED; THREE OR MORE STATIONS IN CONFERENCE SC14 NEXT TO LAST STATION DISCONNECTS WITH ORIGINATOR DISCONNECTED SC15 STATION ON PORT 3 ASSUMES CONTROL AFTER ORIGINATOR DISCONNECTS	E4	5	5	5																																													E4
SC16 STATION 3 DISCONNECTS AFTER TAKING CONTROL ASSUME STA ON CONF AMP & SOME PORTS NOT USED SC17 CONTROLLER IN CONFERENCE FLASHES SWITCHHOOK WITH ALL PORTS BUSY (NO CO TRK IN CONFERENCE) SC18 (MD) CONTROLLER ADDS DIAL REPEATING TIE TRUNK; REGISTER ATTACHED (WITHOUT CONSULTATION)	E5	5	5	5																																													E5
SC19 (MD) CONN PARTY INTO CONF THRU CORD SWITCHBOARD WITHOUT CONSULTATION SC20 CONTROLLER RECALLS ATND WITH ALL PORTS IN USE AND PORT 5 CONN THRU CORD SWITCHBOARD SC21 NEXT TO LAST STA DISCONNECTS WITH ORIGINATOR DISCONNECTED AND LAST STA CONN TO PORT 5 THRU CORD SWITCHBOARD	E6	5	5	5																																													E6
SC22 ADDING FIRST STA (WITH CONSULTATION) CONF CONT COMPLETES DIALING-REGISTER CALLS MARKER SC23 ADDING ANY STA AFTER THE FIRST ONE (WITH CONSULTATION) CONF CONT COMPLETES DIALING; REGISTER CALLS MARKER AND REVERSES BATTERY, PRIVATE CONSULTATION SC24 CONT AND CALLED STA ENTER CONF (WITH CONSULTATION); CONT FLASHES SWITCHOOK TO REACH CONFERENCE BUSS	E7	5	5	5																																														E7
SC25 CALLED STA DISCONNECTS DURING CONSULTATION (WITH CONSULTATION) SC26 CONT ADDS DIAL REPEATING TIE TRUNK (WITH CONSULTATION) AT LEAST ONE STA ON CONFERENCE BUSS-REGISTER ATTACHED SC27 CONTROLLER RETURNS TO CONF WHEN DIAL REPEATING TIE TRUNK IS BUSY OR DA	E8	5	5	5																																														E8
SC 28 CONTROLLER CALLS ATND TO ADD CO PARTY SC 29. CONSOLE ATND DIALS IN CO PARTY	E9	5	5	5																																														E9
SC 30 SWBD ATND PLUGS CO PARTY INTO PORT 5 SC 31 CONTROLLER FLASHES TO INCLUDE BOTH CONTROLLER AND CO PARTY IN CONFERENCE	E10	5	5	5																																														E10

DRAWING ISSUE

5D	UJH SAK GFH	H
6D TM	RMM PJS RMP	
7A	ROZ PJS LDJ	

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SD-66902-01-A3

DIAL CONFERENCE TRUNK CIRCUIT (2)

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SD-66902-01-A3

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SC 32 CO PARTY CONNECTED THRU CORD SWBD DISCONNECTS WHILE ON CONSULT BUSS SC 33 CO PARTY CONNECTED THRU CORD SWBD DISCONNECTS WHILE ON CONFERENCE SC 34 ORIGINATOR DISCONNECTS WHILE ON CONSULT BUSS WITH ANOTHER STATION	E11	5	5	5																																																E11
CKT REQT TABLES BC TO Z	F1	5	5	5																																															F1
CAD 1	G1	4	6	6																																															G1

DRAWING ISSUE

5B	JJH SAK GFH	HW
6D	BMW PJS RNP	
7A	ROZ PJS LDJ	

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DIAL CONFERENCE TRUNK CIRCUIT

BELL TELEPHONE LABORATORIES INCORPORATED

SIZE 6S

SD-66902-01-A4

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FS I

OFF NORMAL AND CALLING CONTROL

SRC
SR
L
6
11
ON
RR
4G9
1U
1L
P-1000
2U
2L
S-42
-48
SRC
12

ONRL
ON
11
12
SRC
1
ON
1U
1L
2500
-48
-48
Z
Y
8
ON
SRC
4
ONA
1U
2U
2450
-48
COO
COI
3B/C6

MARKER
IT-1
(SEE NOTE 2)
11
COTA
COTB
(SEE NOTE 2)
HM-2
IT5
HM5
DO
8
MC
4

TO LINE, LINK, AND MARKER CKT
TIE TRK TERMINATION ASSIGNED AS
PORT 0 (SEE NOTE 1)
S2
ONA
12
BY
1

R2
T2
P
CONFERENCE
AMPLIFIER
CKT
CRDK
10
RO
6
T2
A
T 2
S 3.83
RO
T 898
S 600
A
C2
9
TO
7
T1
CRDK
15EO
R6
4GO
T6
4FO
R7
3B/C2
T7
3B/C2

P
4
D8
2
1
D8
6BO
RT
5
SRC
7

RELAY TIME DELAY CIRCUIT
ED-66715 ( )
RD
12
7
10
1

RD
12
7
10
1
ON4
ON3
R8
.75
MEG
ON2
L
4.28
UF
ON1
ONA
9
RD
D8
8
D8
1U
2U
2450
-48

RD
RELAY TIME
DELAY
CIRCUIT
ED-99556 ( )
OR
1/2 ED-99555 ( )
2
RD2
3
RD3
1
RDI
4
RD4
RD
1.54
MEG
ONRL
1U
2U
2450
-48

L
1L
1U
P-400
2U
2L
S-400
-48

TKB8
10
D8
MC
12
TKA0
8
RS
MC
10
RS
8
RS
1U
2U
640
-48
RT
11
DI
4

CRD 4G9
ON
5
CRDK
11
L
8
12
D8
10
DI
1L
2L
640
-48
PM
12
BRI
1
DO
9
TPDK
2
12
TE
RT
7

RLAA
7
RLS
D8
PM
9
P
1
MC
5
MC
1U
1L
700
-48

S5
8
BCH5
10
DO
100
-48
TKO
12
DO
MC
1
DO
6
Z,Y
DO
1U
1L
Z 950
Y 700
-48
DOA
1L
2L
2450
-48

CRDK
8
PMR
3
9
MC
PM
1U
2U
2450
-48
ON
10
DI
PM
8
5
6
CF
3

CCC
-48
2U
1U
CCC
MC
2
DOR
3
ON
6

MARKER

SHEET NOTE:
1. THE TIE TRUNK TERMINATIONS ARE ON TRK TERM 80-89, AND THESE NEED NOT BE ASSIGNED CONSECUTIVELY. SEE NOTE 301.
2 USE TERMINAL OF TIE TRUNK ASSIGNED AS PORT 5.

DRAWING ISSUE	
1	WFF KFJ
2D	SAK WFF KKJ
3D	PJS RWW GFH
4D	JJH SAK GFH
5D	JJH SAK GFH
6D	BMM PJS RHP
7A	RDZ PJS LDH

7

DIAL CONFERENCE TRUNK CIRCUIT (2)

SD-66902-01-B1

BELL TELEPHONE LABORATORIES INCORPORATED

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FS 2

STEERING, CONNECT, AND BUSY BACK CONTROL

DRAWING ISSUE		
1	KFJ	HW
3D	PJS RKU GFH	HW
4D	JJH SAK GFH	A
5D	JJH SAK GFH	
6D	BMM PJS RHP	

BC2 BC3 BC4 BC5 BC1 BC2 BC3 BC4 BCH5 BC1 RV 1L 2L 2450 -48

BCH1 BCH2 BCH3 BCH4 BCH5 ONA DO DOM BC1 BC2 BC3 BC4 BC5 CO BRI RT CRI CR2 CR3 CR4 CR5 ON Z BC5 RT 4G5 BR 6C1 CRDK 1U 2U 2450 -48 6F3 DO -48

ON RRL PM SRC DI CRDK RV A CRI SI CR1 CR2 CR3 CR4 CR5 S1 S2 S3 S4 S5 BR2 DOA BC5S DO BRI

ON D9W PM CF DI DOM BC5 BC5S BC4 BC3 BC2 BC1 D9W 1U 2U 640 R6 700 R7 700 -48 Z 1L 2L 960 ON L Z

MARKER TKB9 10 D9 MC 3

BCH 1-4 SI-4 1U 1L 1050 -48 CO1-4 CO2 3B/B7

S5 BCH5 S5 1U 1L 1050 -48

OTG OT— (SEE NOTE 1) LHM — (SEE NOTE 1) IN— (SEE NOTE 1) -48

MARKER

SHEET NOTES:

1. USE RELAY APPROPRIATE TO TIE TRUNK ASSIGNED AS PORT 5.

6

DIAL CONFERENCE TRUNK CIRCUIT

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PART OF FS3

CALLING PORTS

TO LINE, LINK AND MARKER CKT TIE TRK TERMINATION ASSIGNED AS PORT 1 (SEE NOTE 1)

TO LINE, LINK AND MARKER CKT TIE TRK TERMINATION ASSIGNED AS PORT 2 (SEE NOTE 1)

TO LINE, LINK AND MARKER CKT TIE TRK TERMINATION ASSIGNED AS PORT 3 (SEE NOTE 1)

TO LINE, LINK AND MARKER CKT TIE TRK TERMINATION ASSIGNED AS PORT 4 (SEE NOTE 1)

R7 3B/CO

T7 3B/CO

TEA 3B/CO

CRR 3B/GO

CRT 3B/GO

SHEET NOTES:

1. THE TIE TRUNK TERMINATIONS ARE ON TRK TERM 80-89, AND THESE NEED NOT BE ASSIGNED CONSECUTIVELY, SEE NOTE 301.

DRAWING ISSUE	
SUPERSEDES SHEET B3 ISS 2D	
3D	JJH RKJ GFH
5D	JJH SAK GFH

DIAL CONFERENCE TRUNK CIRCUIT (2)

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6S

5

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PART OF FS 3
CALLING PORTS

TO LINE, LINK AND MARKER CKT
TIE TRK TERMINATION ASSIGNED
AS PORT 5 (SEE NOTE 1)

SI R1 T1 P

TP5 3 TP5 2

TE 10 TE 9

3A/C7 R7 R7 ID9

3A/C7 T7 T7 ID9

3A/C7 TEA TP5 5

2CO 3 W 2CO 5 W

3A/GO T2R CF 2 T2R 1500 DOA 3 (3)

3A/GO T2T CF 4 T2T 1500 DOA 4 (3)

CONFERENCE AMPLIFIER CKT
C11
T5 T6
F
6 7
580

R5 T5

BC5 6

FO 3 FO 5

F R5
T 2 T 898
S 3.85 S 600
2 9

FO

CO 4 2 1 200 2 3 200 4
L1 2

2 CO 1

2 BC5 10

3A/G7 CRR CR5 4 2 10 2 2CO W

3A/G7 CRT CR5 1 2CO W

2 W 9 CO 2

S5
1L 1U P-400
2U 2L S-400 -48

DOA 5 CF 12 (3)

CR5 3 DO 3 2 BC5

BC5 11

S5 100 (3)

DO 2 VDOR 2 S5 10 V

LINE, LINK AND MKR CKT
MON 2
MONA
MON 1

552A,B,D,E, 605A,607A, 607B OR 608A JK CKT OR 608D JACK AND LAMP CKT
SL
T
R
S

Y DO 1

2 CO U L 2500

CO2 2F7
CO1 183

2 CO 12

2 CO 2 11

P

SHEET NOTES:
1. THE TIE TRUNK TERMINATIONS ARE ON TRK TERM. 80-89, AND THESE NEED NOT BE ASSIGNED CONSECUTIVELY, SEE NOTE 301.

DRAWING ISSUE

3D	JJM	
	RKU	
	GFH	
4D	JJH	
	SAK	
	GFH	
5D	JJH	
	SAK	
	GFH	
6D	BMV	
	PJS	
	RHP	

HW A

DIAL CONFERENCE TRUNK CIRCUIT (2)	SD-66902-01-B3B
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FS 4

RINGING AND TRANSFER CONTROL

BCH1 BCH2 BCH3 BCH4 BCH5

TPI TP2 TP3 TP4 TP5

SI S2 S3 S4 S5

BCI BC2 BC3 BC4 BC5

TPDK

RRL RV TE TEA BY ONA RV

RD FO FOM

RELAY TIME DELAY CKT ½ ED-99555-( )

RELAY TIME DELAY CKT ED-99541-( )GR1

DOR DOA CF CO SRC

T 866K

FO 680

FO1 FO2

P-1000 S-42

P-220 S-1150

P 1920 640

MC 200

BR2 DO

TI

D9W

RS

RING G OR RG

RI

POWER SUPPLY CKT OR RINGING CKT (INTERRUPTER)

3A/FO CRT

ID9 T6

ID9 R6

3A/FO CRR

BT

G .05

H .05

K

RT

CRD

RR

RRL 1500

C

D8

P

A

B

TE 2500

TEA 2450

BY 2450

TPDK 2450

TP1 2450

TP2 2450

TP3 2450

TP4 2450

TP5 2450

S1 2450

S2 2450

S3 2450

S4 2450

S5 2450

BC1 2450

BC2 2450

BC3 2450

BC4 2450

BC5 2450

BCH1 2450

BCH2 2450

BCH3 2450

BCH4 2450

BC5 2450

RRL 2450

RV 2450

TE 2450

TPDK 2450

TEA 2450

BY 2450

AO 5G2

DRAWING ISSUE

/	JFF KFJ	HW
2D	SAK JFF KFJ	HW
3D	PJS RKU GFH	
4D	JJH SAK GFH	
5D	JJH SAK GFH	

DIAL CONFERENCE TRUNK CIRCUIT

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5

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FS 5

CONFERENCE BRIDGE CIRCUIT

DRAWING ISSUE		
1	SAK KFJ	HW
5D	JJH SAK GFH	

CA
9068
CONN

CA
J-99294AA

3B/D3 T5 P R5
3A/D5 T3 P R3
3A/D1 T1 P R1
1C9 T0 P R0
3A/D3 T2 P R2
3A/D7 T4 P R4

17 16 13 12 9 8 7 6 11 10 15 14 20 5

A B C D E F

R9
KS-14603,L1A
715

-48

A0 4F5

V M

5

DIAL CONFERENCE TRUNK CIRCUIT

BELL TELEPHONE LABORATORIES INCORPORATED

DWG CODE 6S

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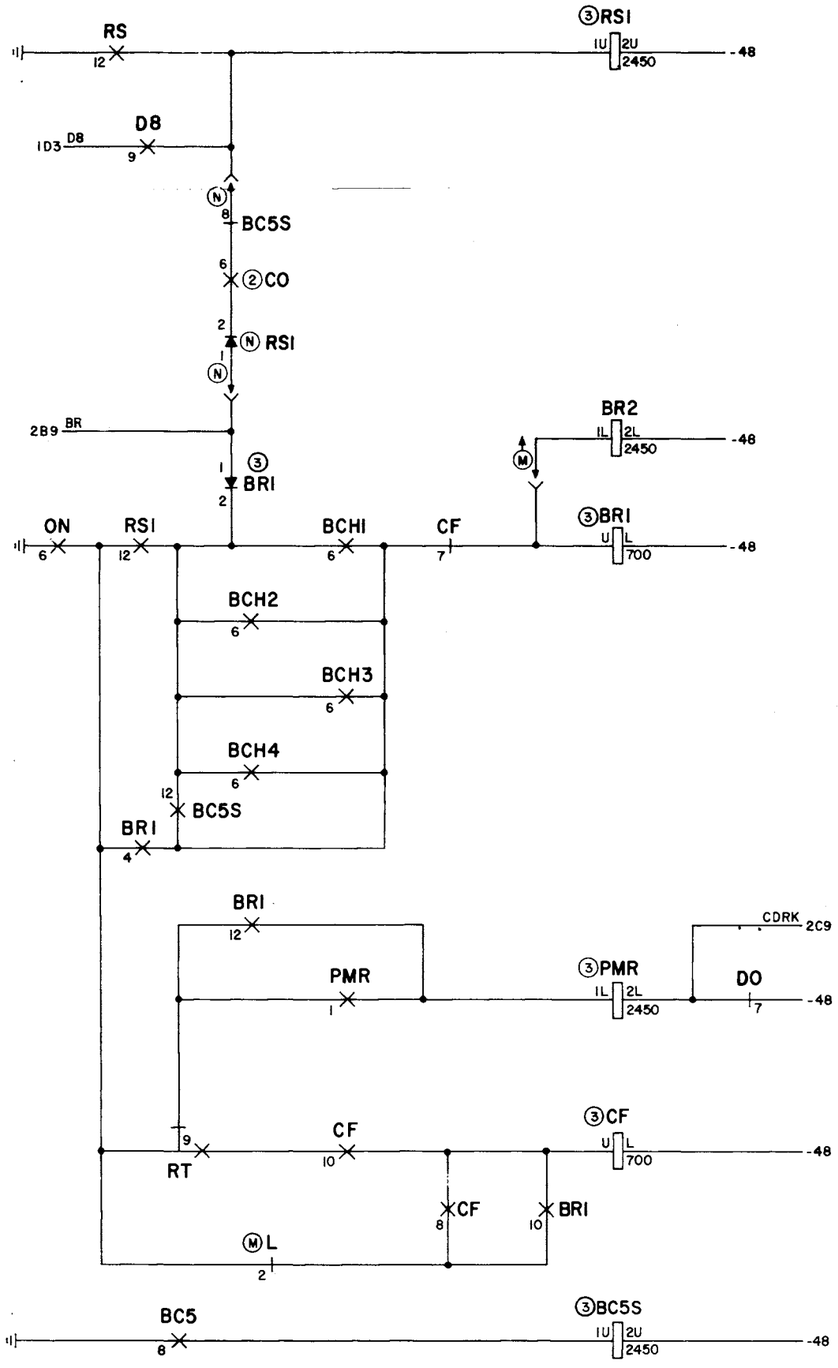
FS 6

PRIVATE CONSULTATION



DRAWING ISSUE
5D JJH SAK GFH

SD-66902-01-B6

DIAL CONFERENCE TRUNK CIRCUIT

BELL TELEPHONE LABORATORIES INCORPORATED

DWG SIZE 6S

SD-66902-01-B6

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APP FIG. 1

RELAY

DESIG	BC1		BC2		BC3		BC4		BC5		BCH1		BCH2		BCH3		BCH4		BCH5		BY		ONA		DESIG
CODE	AG20		AG20		AG20		AG20		AG20		AG24		AG24		AG24		AG24		AG24		AK4				CODE
OPTION																									OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	M	4B2	M	4B2	M	4C2	M	4D2	M	4D2													M	IB6	12
11	M	3A/GI	M	3A/G3	M	3A/H5	M	3A/H6	M	2B/HI													EBM	4B4	11
10	EBM	3A/EI	EBM	3A/E3	EBM	3A/E5	EBM	3A/E6	EBM	3B/F2	M	4E5	M	4E6	M	4E6	M	4E7	M	a			EBM	2A8	10
9	M	2B0	M	2A0	M	2A0	M	2AI	M	2AI													EMB	ID5	9
8	EMB		EMB	2B0	EMB	2BI	EMB	2BI	EMB	a	BM	4B0	BM	4B0	BM	4B0	BM	4C0	BM	4C0			EMB	4D5	8
7																									7
6	EMB	3A/EI	EMB	3A/E3	EMB	3A/E5	EMB	3A/E6	EMB	3B/E3	BM	6D2	BM	6DI	BM	6E2	BM	6EI	BM	2B2					6
5																					EMB	4E4			5
4	EBM	4D5	EBM	4D6	EBM	4D6	EBM	4D7	EBM	4D7	M	2A3	M	2A4	M	2A5	M	2A6	M	2A7	EMB	4A5			4
3	M	2B3	M	2B4	M	2B5	M	2B6	M	2B7											EBM	4B5			3
2	EBM	3A/FI	EBM	3A/F3	EBM	3A/F5	EBM	3A/F6	EBM	3B/G2											EBM	4E4			2
1	M	2HO	M	2HO	M	2GO	M	2GO	M	4E7											M	IB6			1
COIL		2B4		2B5		2B6		2B7		2B8		2F6		2F6		2F6		2F6		2G6		4B6		IC2	COIL

2 (V) 2FO, 6HI

a (V) ICI, (3) IG4

RELAY

DESIG	CRI		CR2		CR3		CR4		CR5		CRDK		DI		D9W		DO		DO				FO		DESIG
CODE	AK4		AK4		AK4		AK4		AK4				AK30				AF98		AJ15				AG44		CODE
OPTION																	Z		Y						OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12			M	3A/G2			M	3A/G6			M	2D2			M	2F3			EBM	4G4			EM	4F8	12
11			EBM	2C4			EBM	2C6			EBM	IF5			EBM	4GI			EBM	4G4			M		11
10			EBM	3A/G3			EBM	3A/H6			EBM	IB8			EBM	4FI	EBM	2B9	EBM	2B9			M		10
9			EMB	3A/F2			EMB	3A/F6			EMB	IC8			EMB		B		EBM	IG6			BM	3B/E2	9
8			EMB	2D4			EMB	2D6			EMB	IG6			EMB	2F3	EBM	IB5	EMB	IB5					8
7																	B	7C8	EBM	6F5			BM	4E8	7
6																	EMB	IG3	EMB	IG3					6
5	EMB	2D3			EMB	2D5			EMB	2D7			EMB	IH7			B	2E8	EMB	a			BM	3B/E2	5
4	EMB	3A/FO			EMB	3A/F4			EMB	3B/GI			EMB	IF4			EBM	2A9	EBM	2A9			M		4
3	EBM	3A/GI			EBM	3A/H5			EBM	3B/H2			EBM	a			B	3B/H2	EBM	3B/H2			BM	3B/EI	3
2	EBM	2C3			EBM	2C5			EBM	2C7			EBM	2DI			M	3B/H2	EBM	3B/H2			M		2
1	M	3A/FO			M	3A/G4			M	3B/GI			M	2D2					EBM	3B/B5			M	4F8	1
COIL		2D4		2D5		2D6		2D7		2D8		2C8		IF8		2F4		IG4		IG4				4F8	COIL

a (V) 2FI, (3) 2FO

2 (V) 2E7, (3) 2E8

CAPACITOR

DESIG	LOC	CODE
(T) A	IB8	542F, 2
(T) B	3A/EI	542F, 2
(T) C	3A/E3	542F, 2
(T) D	3A/E5	542F, 2
(T) E	3A/E7	542F, 2
(T) F	3B/E3	542F, 2
G	4HI	542W, .05
H	4H2	542W, .05
K	4G2	542F, 2
(V) L	ID6	437QA, 4.28
(S) A	IB8	705G, 3.83
(S) B	3A/EI	705G, 3.83
(S) C	3A/E3	705G, 3.83
(S) D	3A/E5	705G, 3.83
(S) E	3A/E7	705G, 3.83
(S) F	3B/E3	705G, 3.83

REPEAT COIL

DESIG	LOC	CODE
TI	4F3	202A, 25Ω

CONNECTOR

DESIG	LOC	CODE
(V) RD	ID6	KS-19198 LI
CA	5B0	906B
(M) RD	IE5, 4A8	910A

DIODE

DESIG	LOC	CODE
A	4H4	446F
B	4H4	446F

PLUG-IN UNIT

DESIG	LOC	CODE
(V) RD	ID6	ED-66715-( )
CA	5D4	J-99294-AA
(Q) RD	IE4	ED-99556-( )
(R) RD-FO	IE4, 4A8	ED-99555-( )

RESISTOR

DESIG	LOC	CODE
(T) RO	IC8	145A, 898
(T) RI	3A/EI	145A, 898
(T) R2	3A/E3	145A, 898
(T) R3	3A/E5	145A, 898
(T) R4	3A/E7	145A, 898
(T) R5	3B/E3	145A, 898
[I] R6, R7	2G5, 2H5	19RL
(V) R8	ID6	145A, .75 MEG
R9	5GI	KS-14603 LIA, 715
RO	IC8	145A, 600
RI	3A/EI	
(S) R2, R3, R4, R5	3A/E3, 3A/E5, 3A/E7, 3B/E3	
(M) RD	IE5	145A, 1.54 MEG

RESISTOR

DESIG	LOC	CODE
[I] S1, S2	3A/GI, 3A/G2	19LC
[I] S3, S4	3A/H5	19LC
S5	3B/HI	188W, 100

THERMISTOR

DESIG	LOC	CODE
A	2D2	IC
(V) B	ICI	IF
C	4G7	IA

RELAY

DESIG	FOM		RRL				MC		ON		P		RS		RT		RV		PM		SI		S2		DESIG
CODE	AK37						AJ15		AF83		AK30				AJ58		AK4				AJ52		AJ52		CODE
OPTION																									OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12			EBM	4G8			EBM	ID2	M	IB1			M	6BI	EM	4G6			M	IF6					12
11			EBM	4EO			EBM	4H4	M	IA1			EBM	4H2	B	IF3			EBM	2E4					11
10			M	4H7			EBM	IE2	M	IH6			EBM	4H3	M	2C7			EBM	2DI	M	2EI	M	2E5	10
9			B				EBM	IG8	M	2C3			EMB	4F3	BM	6GI			EMB	IG2					9
8			EMB	2DO			EMB	4G4	M	IBI			EMB	IE3					EMB	IH8	EMB	2F5	EMB	2F5	8
7							EBM	4G5	M	ICO					B	IF7									7
6							EMB		M	a											EMB	4B2	EMB	4B2	6
5	B						EMB	IG3	M	IF5	EMB				B	ID4	EMB								5
4	B						EBM	IC5	M	2DO	EMB	IC4			M	2C6	EMB				EBM	2D3	EBM	2D5	4
3							EBM	2H3	M	2G2	EBM	4H5			BM	2C5	EBM	2D2							3
2	EBM	4F8					EBM	IH2	M	2E3	EBM	r			M	2C4	EBM	4EI			M	4C5	M	4C6	2
1	M	4E8					EBM	IG2	M	4B7	M	IG3			M	2C3	M	4C4							1
COIL		4E9		4G8				IF4		IB2		4H4		IE4		4F5		2B3		IH8		3A/FI		3A/F3	COIL

(V) IH4, a 6DO

RELAY

DESIG	S3		S4		S5		SRC		TE		TPI		TP2		TP3		TP4		TP5		TEA				DESIG
CODE	AJ52		AJ52		AJ52		AG44		AJ5		AK4				AK4				AK4						CODE
OPTION																									OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12							EM	IA2	EBM	IG6			M	4B6			M	4B7			M				12
11							M		EBM	4E2			EBM	3A/B2			EBM	3A/B6			EBM	3A/C0			11
10	M	2E6	M	2E7	M	a	M	2DO	EBM	3B/BI			EBM	3A/B2			EBM	3A/B6			EBM				10
9							BM		EBM	3B/BI			EMB	4BI			EMB	4CI			EMB	4B7			9
8	EMB	2F5	EMB	2F5	EMB	b			EBM	3A/B6			EMB	3A/C2			EMB	3A/C6			EMB	4E2			8
7							BM	ID4	EBM	3A/B6															7
6	EMB	4C2	EMB	4D2	EMB	4D2			EBM	3A/B4															6
5							BM	4E7	EBM	3A/B4	EMB	3A/CO			EMB	3A/C4			EMB	3B/CI					5
4	EBM	2D6	EBM	2D7	EBM	2D8	M	IC1	EBM	3A/B2	EMB	4AI			EMB	4CI			EMB	4DI					4
3							BM		EBM	3A/B2	EBM	3A/BO			EBM	3A/B4			EBM	3B/BI					3
2	M	4C6	M	4C7	M	4C7	M	4G6	EBM	3A/BO	EBM	3A/BO			EBM	3A/B4			EBM	3B/BI					2
1							M	IBI	EBM	3A/BO	M	4B5			M	4B6			M	4B7					1
COIL		3A/F5		3A/F7		3B/G4		IA2		4A7		4B3		4B3		4C3		4D3		4A7		4A7			COIL

a (V) 3B/H3, (3) 2G6

b (V) 2G6, (3) IG3

RELAY

DESIG	TPDK		D8		Z		DOM		DOR		BR2		ONRL		L		L		DESIG
CODE	AK4				AK8				V		AK4		M		AJ52		AJ138		CODE
OPTION															V		M		OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12			M	4H5			M	2B8					M				B	IF6	
11			EBM	IG2			M						EBM	4BO					
10			EBM	IF6			EBM	2FO					EBM		M	4G3	B	2G2	
9			EMB	6BI			EMB						EMB						
8			EMB	ID3			EM	IC2					EMB		EMB	IF6	M	4G3	
7																			
6															EMB	IAI	BM	IAI	
5	EMB	4EI			EM				EMB	IC2	EMB	2EO							
4	EMB	4C7			B	2C8			EMB	4D3	EMB	4H3			EBM	2G2	M	2G2	
3	EBM	4A5			EBM	2G4			EBM	IH3	EBM	4G4							
2	EBM	IF6			EBM				EBM	3B/G3	EBM				M		B	6HI	
1	M	4E3			M	2G2			M		M								
COIL		4DO		ID4		2H4		2A9		IC3		6C3				IE8		IE8	

DRAWING ISSUE

1	5AK	HW
	KFJ	
2D	SAK, AF, KFJ	HW
3D	JJH, RKU, GFH	
4D	JJH, SAK, GFH	
5D	JJH, SAK, GFH	
6D	BMM, PJS, RHP	
7A	ROZ, PJS, LDJ	

PMJD

DIAL CONFERENCE TRUNK CIRCUIT

BELL TELEPHONE LABORATORIES INCORPORATED

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APP FIG. 2

RELAY

DESIG	CC									
CODE	AX15									
OPTION										
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC
12	EBM	3B/C5								
11	EBM	4D8								
10	EBM	3B/G2								
9	EBM	3B/G3								
8	EBM	2B9								
7	EBM	4F8								
6	EBM	6C1								
5	EBM	3B/C2								
4	EBM	3B/E2								
3	EBM	3B/C1								
2	EBM	3B/D5								
1	EBM	3B/F3								
COIL		3B/B6								

CONNECTOR

DESIG	LOC	CODE
(V) FO	4C8	910A

DIODE

DESIG	LOC	CODE
CO0	1B3	446F
CO1-4	3F6	446F
FO	4F8	446F

INDUCTOR

DESIG	LOC	CODE
L1	3B/F3	274L

PLUG IN UNIT

DESIG	LOC	CODE
(V) FO	4D8	ED-99541-( ) GROUP I

RESISTOR

DESIG	LOC	CODE
FO	4D9	KS-14603 L1A,680
T	4C9	144A,866K

VARISTOR

DESIG	LOC	CODE
F01	4D9	100E
F02	4D9	100E

APP FIG. 3

RELAY

DESIG		BR1		CF		DOA	RS1		PMR	BC5S			DESIG
CODE		AF88		AJ15		AK4			AK4				CODE
OPTION													OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12			M	6F1	EBM	3B/H0	M	6D1		M	6E1		12
11			B	2B7	EBM		EBM			EBM			11
10			M	6F2	EBM	3B/G0	EBM	3A/G0		EBM	2E1		10
9			B	2B5	EBM	2B5	EMB			EMB	2F1		9
8			BM	2E9	EMB	6F3	EMB	3A/G0		EMB	6B1		8
7			B	2B6	EBM	G02							7
6			BM	3A/G1	EMB	1H6							6
5			B	2B4	EMB	4E7	EMB	3B/H0	EMB				5
4			M	6F1	EBM	3B/D0	EMB	3B/D0	EMB				4
3			B	2B3	EBM		EBM	3B/D0	EBM	1G8			3
2			M	3A/G0	EBM	3B/D0	EBM	2E0	EBM				2
1			B	1F6	EBM		M	4H3	M	6G2			1
COIL				6D3		6G3		1H4		6F3		6H3	COIL

CAPACITOR

DESIG	LOC	CODE
P	4G3	437A

DIODE

DESIG	LOC	CODE
BC5	2C8	446F
BR1	6D1	446F
D8	1C3	446F
RT	4G5	446F
(N) RS1	6C1	446F

INDUCTOR

DESIG	LOC	CODE
L2	3A/G0	274L

RESISTOR

DESIG	LOC	CODE
DO	1G4	18U
MC	4G4	KS 13492 L1,200
P	4G4	18JU
T2R	3B/D0	144A,1500
T2T	3B/D0	144A,1500

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BLUE BOOK

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CIRCUIT NOTES:

101.

DESIG	FUSE AMP	POTENTIAL	ONE PER	TERM. DESIG
T- *	1-1/3	-48V	APP FIG. 1	
T- *	1-1/3	GRD	APP FIG. 1	

* FUSING OF UNIVERSAL TRUNK CIRCUIT ASSIGNED AS ACCESS PORT OF THE CONFERENCE CIRCUIT , SEE NOTE 301 .

BATTERY SYMBOL	VOLTAGE RANGE
-48	45 - 52V

102.

FEATURE OR OPTION		PROVIDE APP FIG.	PROVIDE APP OR WRG	PROVIDE QUANTITY
CONFERENCE CIRCUIT		1,3	M	1 PER PBX
CORD SWITCHBOARD	REQ'D	2	R,N	1 PER PBX
	NOT REQ'D		W,Q	

103.

NETWORK VALUES		
NETWORK NO.	RESISTANCE IN OHMS	CAPACITANCE IN UF

104. RECORD OF APP FIGURES , WIRING AND APPARATUS CHANGES

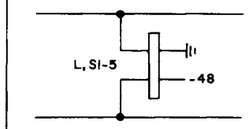
CHANGED ON ISS	IF JOB RECORDS DO NOT SPECIFY	THIS OPTION WAS FURN	SEE NOTE	USE IN CIRCUIT STD	USE IN CIRCUIT A & M	USE IN CIRCUIT MD	
3D	Y,Z	Z	106	Y		Z	
3D	W	W	102,106	W			
3D	APP FIG 2	NONE	102 106	APP FIG 2			
5D	APP FIG 3 Q,R,M,V	V	102 107	APP FIG 3 Q,R,M		V	
5D	S,T	T		S		T	
5D	N	NONE	102	N			

105. THIS CONFERENCE CIRCUIT REQUIRES APPROPRIATE STRAPPING IN THE UNIVERSAL LINE AND DIAL PULSE REGISTER CIRCUITS FOR CLASS OF SERVICE OPTIONS , ETC . THE UNIVERSAL LINE STRAPPING IS ON TERMINAL STRIPS IN THE TIE TRUNK ADAPTER UNIT OF THE LINE,LINK AND MARKER CIRCUIT .

106. PROVIDE Y OPTION AND REMOVE Z OPTION IF APP FIG. 2 IS PROVIDED.

107. PROVIDE M OPTION AND REMOVE V OPTION IF APP FIG. 3 IS PROVIDED.

TRANSMISSION TEST REQUIREMENTS
(1000 CYCLE LOSS BETWEEN 600 OHM LINES)



MAX ALLOWABLE CKT LOSS (DB)
0.2

ALLOWABLE INDIVIDUAL APPARATUS LOSSES (db)

APPARATUS	DESIG	CODE	MAX. LOSS	MIN. LOSS	REMARKS
RELAYS	L,S1-S5	AJ 52	0.2		
	L	AJ 138	0.2		
INDUCTORS	L1,L2	274L	0.1		

INFORMATION NOTES:

301. THE ASSIGNMENT OF TRUNK TERMINALS TO THE UNIVERSAL LINE CIRCUITS USED FOR THIS CONFERENCE CIRCUIT IS PER CUSTOMER SPECIFICATIONS AND NEED FOLLOW NO NUMERICAL ORDER , HOWEVER , WHEN TRUNK TERMINALS ARE NOT SPECIFIED , TERMINALS 84 THROUGH 89 USED CONSECUTIVELY SHALL BE GIVEN PREFERENCE,WITH TERMINAL 84 ASSIGNED AS THE ACCESS CODE FOR THE CONFERENCE CIRCUIT AND TERMINAL 89 AS THE DIAL BACK CODE FOR A CENTRAL OFFICE TRUNK CONNECTION .

302. CHARTS A-F ON SHEETS D2 & D3 SHOW THE CONTROL AND SWITCHING ACTIONS INVOLVED IN SETTING UP A CONFERENCE.

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

WORKING LIMITS

MAX EXTERNAL LOOP RESISTANCE	1500
MIN INSULATION RESISTANCE	16,000

DRAWING ISSUE		
1	WFA	HW
	KFJ	
2D	SAK	HW
	WFA	
	KFJ	
3D PMMT	FUS	HW
	RKU	
	GFH	
4D	JJH	
	SAK	
	GFH	
5D	JJH	
	SAK	
	GFH	

PMJD

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DIAL CONFERENCE TRUNK CIRCUIT

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INFORMATION NOTES (CONT)
302. (CONT)

CHART A

ORIGINATING A CONFERENCE AND CALLING FIRST CONFEREE STATION

ORIGINATING STATION	PBX SWITCHING SYSTEM	CONFERENCE CONTROL CIRCUIT
GOES OFF-HOOK AND DIALS CONFERENCE NUMBER 80 →	NORMAL FUNCTIONS TO CONNECT STATION TO CONTROL →	TERMINATES ORIGINATING STATION IN LINE RELAY (L) ↓
	REGISTER ATTACHED ←	CALLS REGISTER TO VERTICAL
	DIAL TONE RETURNED →	DIAL TONE ON VERTICAL 81 ↓
RECEIVES SECOND DIAL TONE ←	80 ←	ROUTED TO VERTICAL 80
DIALS NUMBER OF FIRST CONFERENCE STATION →	80 →	PULSES LINE RELAY (L) ↓
	REGISTER RECEIVES DIAL PULSE ←	VIA VERTICALS 80 & 81
	MARKER CONNECTS CALLED STATION LINE TO CONTROL CIRCUIT VIA VERTICAL 81 (SEE CHART D FOR BUSY STATION) →	TERMINATES CALLED STATION ↓
ORIGINATOR HEARS RING BACK ←	80 ←	RETURNS RING BACK TO VERTICAL 80 ↓
CALLED STATION		
BELL RINGS ←	81 ←	RINGS CALLED LINE VIA VERTICAL 81 (SEE CHART E FOR DA)
GOES OFF HOOK →	81 →	TRIPS RINGING CIRCUIT AND PREPARES OPERATION OF PRIVATE CONSULTATION CIRCUITS
ORIGINATOR AND CALLED STATION		
TALK VIA CONFERENCE AMPLIFIER	[81 ↔ / 80 ↔]	CONNECTS ORIGINATOR AND CALLED STATION VIA CONFERENCE AMPLIFIER

CHART B

ORIGINATOR CALLS SECOND CONFEREE STATION

ORIGINATING STATION	PBX SWITCHING SYSTEM	CONFERENCE CONTROL CIRCUIT
OPERATES AND RELEASES SWITCH HOOK →	80 →	DISCONNECTS ORIGINATING STATION FROM CONFERENCE AMPLIFIER ↓
	REGISTER ATTACHED ←	CALLS REGISTER TO VERTICAL 82 ↓
	DIAL TONE RETURNED →	DIAL TONE ON VERTICAL 82 ↓
RECEIVES DIAL TONE ←	80 ←	ROUTED TO VERTICAL 80
DIALS NUMBER OF SECOND CONFEREE →	80 →	PULSES LINE RELAY (L) ↓
	REGISTER RECEIVES DIAL PULSES ←	VIA VERTICAL 80 & 82
	MARKER CONNECTS CALLED STATION LINE TO CONTROL CIRCUIT VIA VERTICAL 82 (SEE CHART D FOR BUSY STATION) →	TERMINATES CALLED STATION LINE IN RINGING CIRCUIT ↓
ORIGINATOR HEARS RING BACK ←	80 ←	RETURNS RING BACK TO ORIGINATOR AND OPERATES PRIVATE CONSULTATION CIRCUITS ↓
CALLED STATION		
BELL RINGS ←	82 ←	RINGS ON CALLED LINE (SEE CHART E FOR STATION DA)
GOES OFF HOOK →	82 →	TRIPS RINGING CIRCUIT ↓
ORIGINATOR AND CALLED STATION		
TALK VIA PRIVATE CONSULTATION PATH	[80 ↔ / 82 ↔]	CONNECTS ORIGINATOR AND SECOND CALLED STATION IN PRIVATE CONSULTATION VIA REPEAT COIL

NOTE: ALL FUTURE CONFEREES ADDED WILL HAVE PRIVATE CONSULTATION WITH THE ORIGINATOR (OR CONTROLLER) FOR THE DURATION OF THE CONFERENCE

CHART C

ORIGINATOR (OR CONTROLLER) AND CALLED PARTY JOIN CONFERENCE AFTER PRIVATE CONSULTATION

ORIGINATING STATION	PBX SWITCHING SYSTEM	CONFERENCE CONTROL CIRCUIT
ORIGINATOR (OR CONTROLLER) OPERATES AND RELEASES SWITCHHOOK →	→	OPERATES CF RELAY AND RELATED CIRCUITS ↓
ORIGINATOR AND ALL CALLED STATIONS ←	←	BREAKS PRIVATE CONSULTATION PATH AND CONNECTS ORIGINATOR AND CALLED STATION TO CONFERENCE AMPLIFIER ↓
		RE-SETS PRIVATE CONSULTATION CIRCUITS TO NORMAL FOR NEXT OPERATION
TALK VIA CONFERENCE AMPLIFIER	[80 ↔ / 81 ↔ / 82 ↔]	

NOTE: THIRD TO FIFTH CONFEREES ARE ADDED IN THE SAME MANNER EXCEPT VERTICALS 83 THROUGH 85 ARE USED

DRAWING ISSUE
8 5D PJS AC/ GFK

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E-2428 (5-66)

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INFORMATION NOTES (CONT)
302. (CONT)

CHART D

CALLED STATION IS BUSY

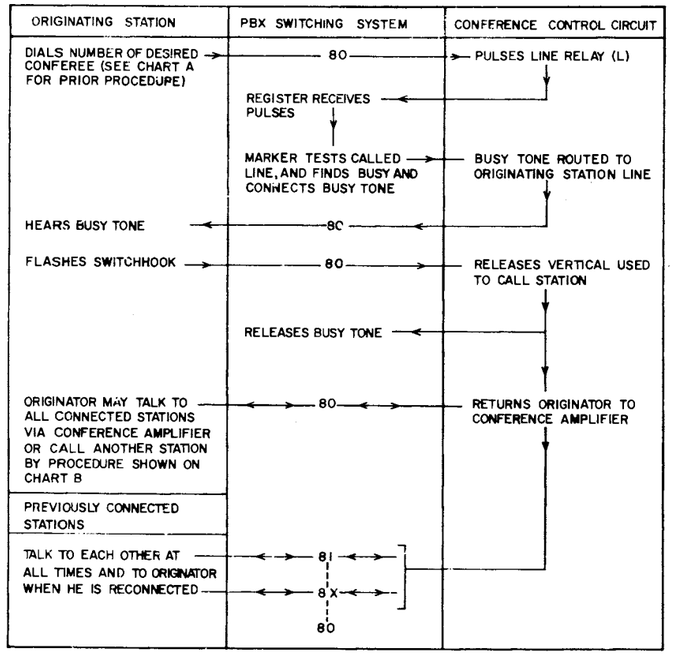


CHART E

CALLED STATION DOES NOT ANSWER

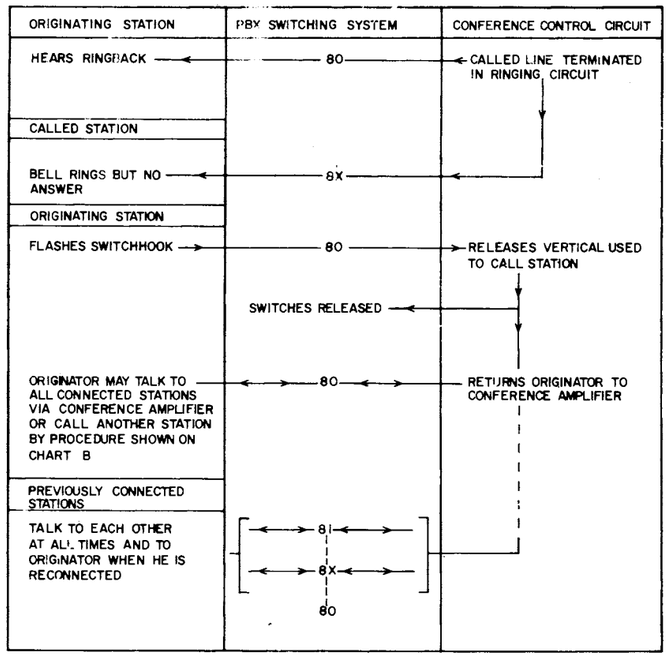
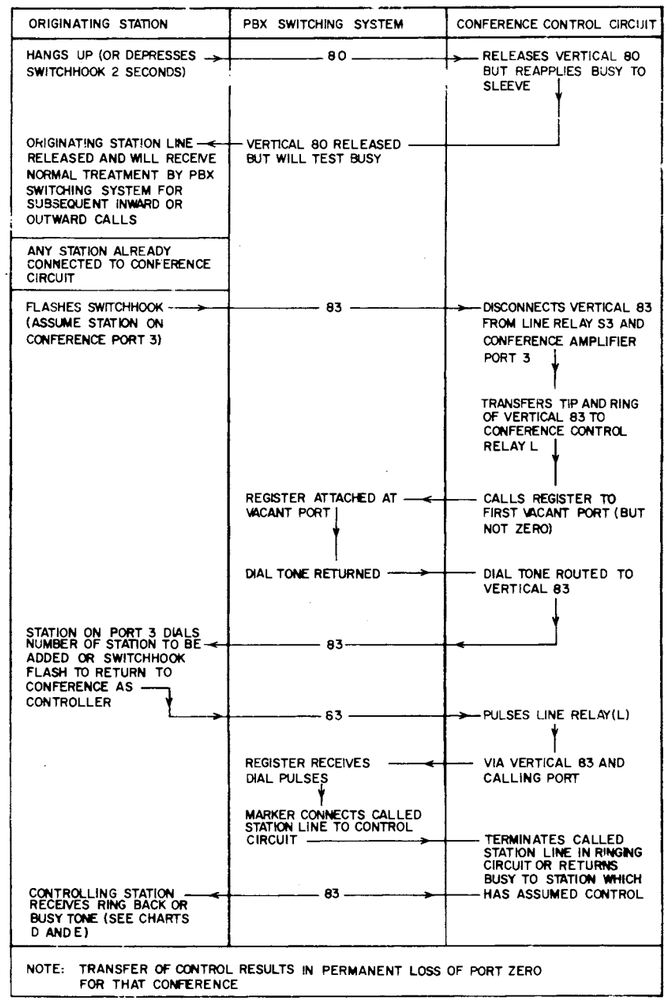


CHART F

TRANSFER OF CONTROL



NOTE: TRANSFER OF CONTROL RESULTS IN PERMANENT LOSS OF PORT ZERO FOR THAT CONFERENCE

DRAWING ISSUE
5D PJS RKW GFH HW

5

DIAL CONFERENCE TRUNK CIRCUIT (2)

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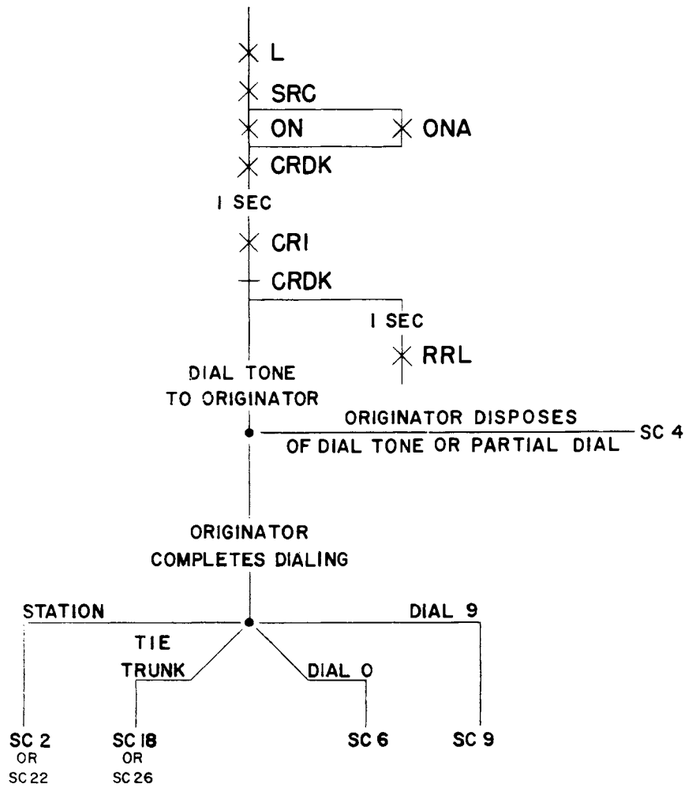
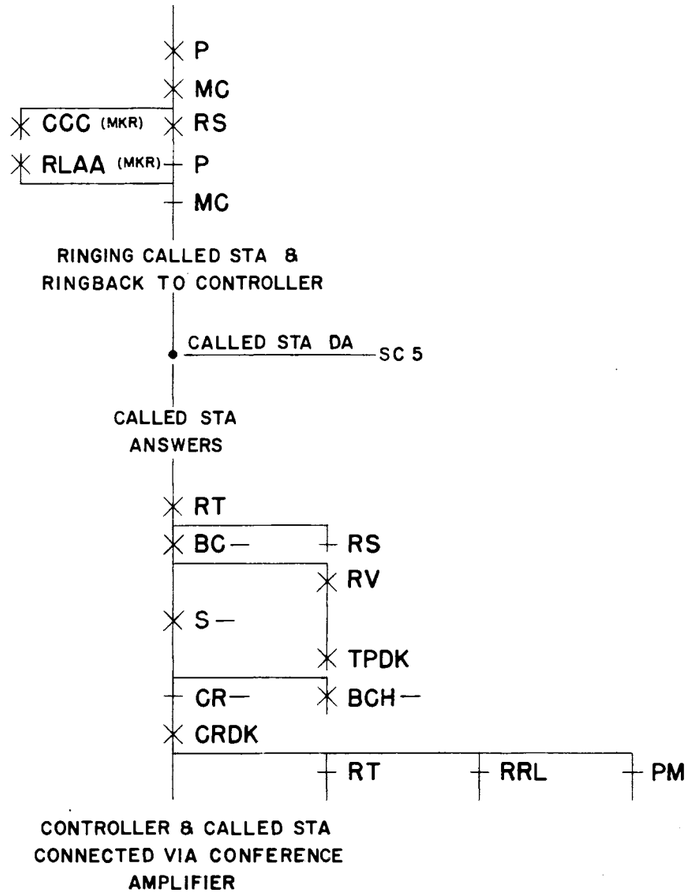
SC 1

ORIGINATING A CONFERENCE
ANY STATION CALLS CONFERENCE NUMBER
(ASSUME NO. 80)



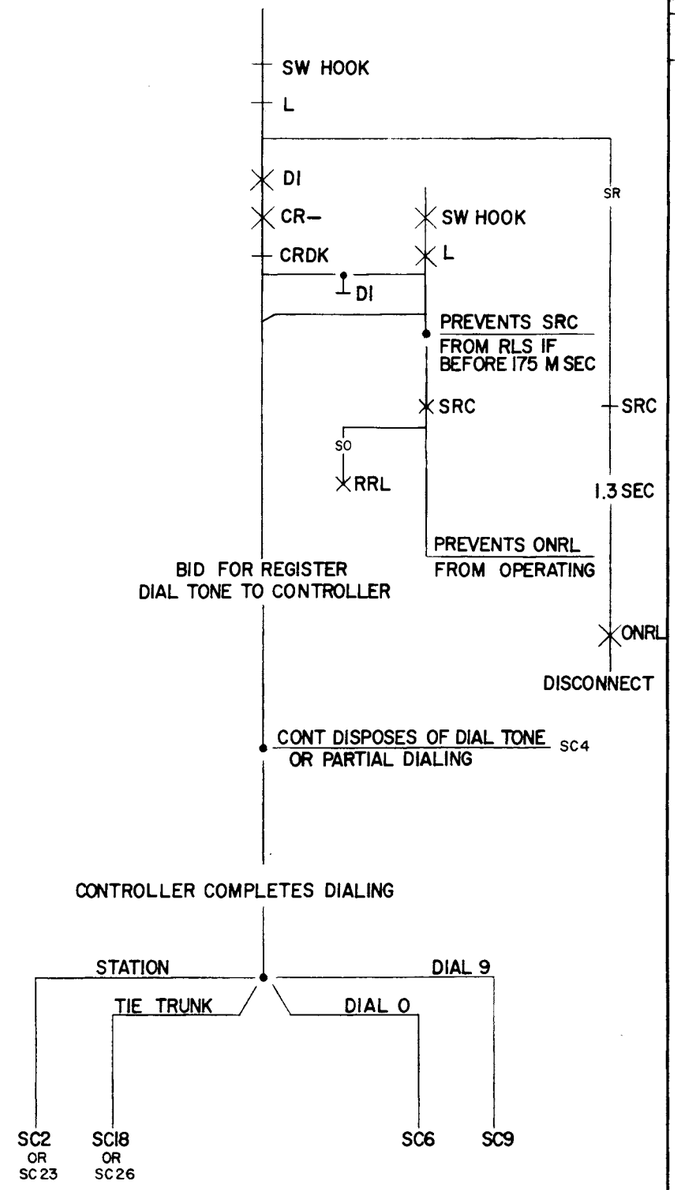
SC 2 (MFR DISC. SEE SC 22)

ADDING A STATION (WITHOUT CONSULTATION)
CONFERENCE CONTROLLER COMPLETES DIALING
REGISTER CALLS MARKER AND REVERSES BATTERY



SC 3

CONTROLLER LEAVES CONFERENCE
TO ADD A STATION OR TRUNK



DRAWING ISSUE

1	PJS KFJ	
2D	MPM JFF KEJ	HW 2
3D	PJS JJH GFH	H.W 3
5D	JJH SAK GFH	4

5

DIAL CONFERENCE
TRUNK CIRCUIT (2)

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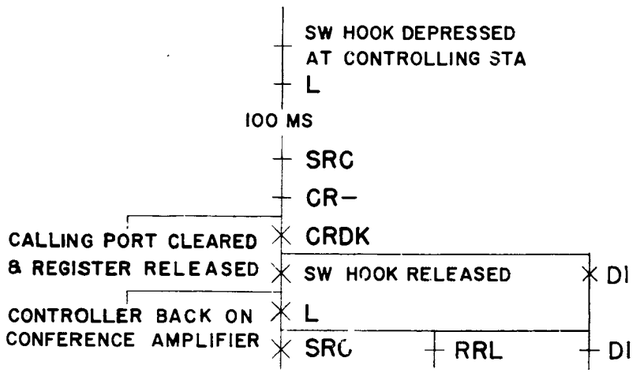
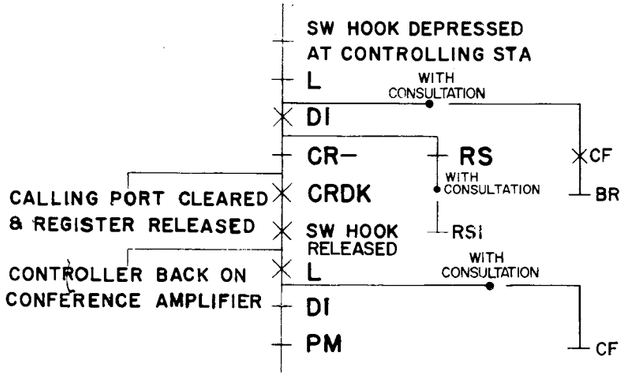
SC 4

CONTROLLER RETURNS TO CONFERENCE
AFTER DIAL TONE OR PARTIAL DIALING



SC 5

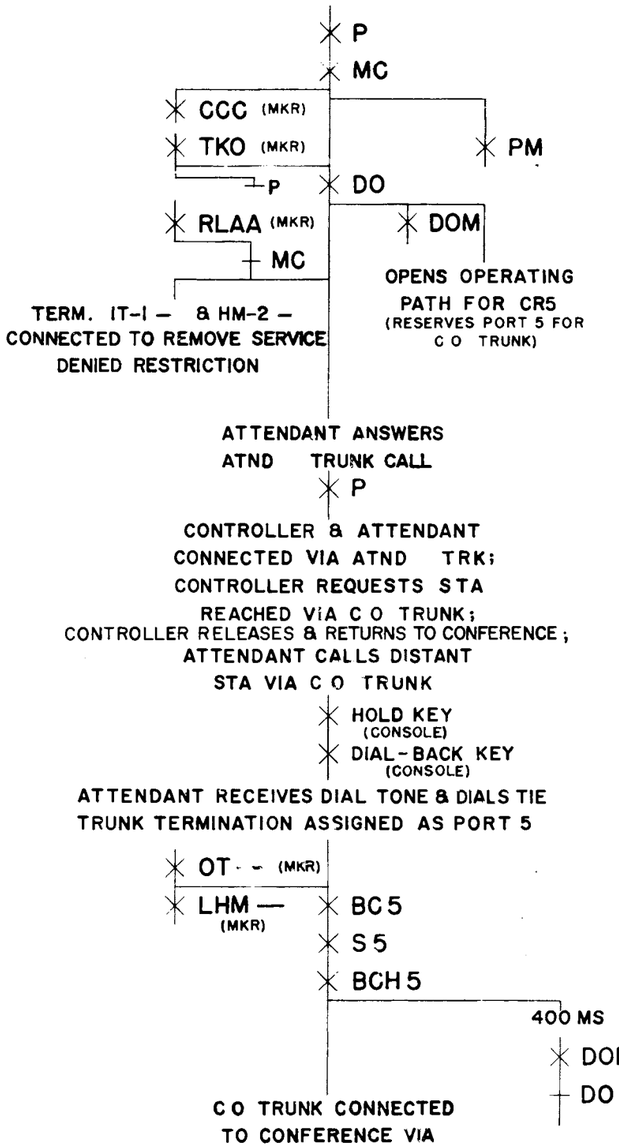
CONTROLLER RETURNS TO CONFERENCE
WHEN CALLED STATION OTHER THAN DIAL-REPEATING TIE - TRUNK STATION IS BUSY OR DA
(FOR DIAL-REPEATING TIE-TRUNK SEE SC 27)



SC 6 (MFR DISC)

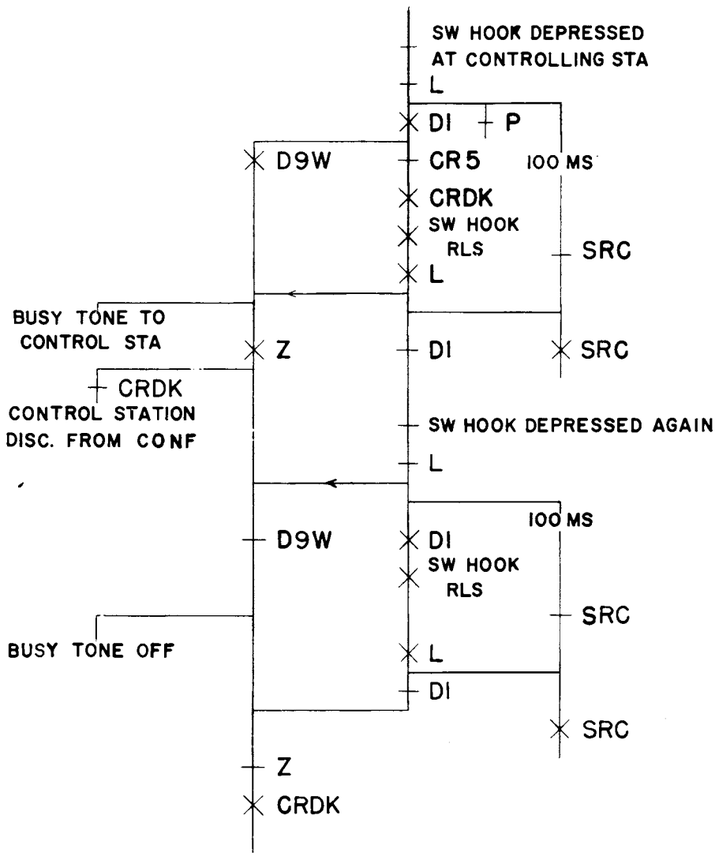
CONTROLLER AND CONSOLE ATTENDANT ADD CO TRUNK PARTY TO CONFERENCE;
CKT NOT EQUIPPED FOR CONSULTATION
CONTROLLER HAS DIALED 0

REGISTER REVERSES BATTERY AND CALLS MARKER
(FOR CKT EQUIPPED FOR CONSULTION SEE SC 28)



SC 7 (MFR DISC)

CONTROLLER RELEASES FROM ATTENDANT
TRUNK WITH PORTS 1-4 IN USE AND PORT 5
RESERVED FOR C O TRUNK CONNECTION



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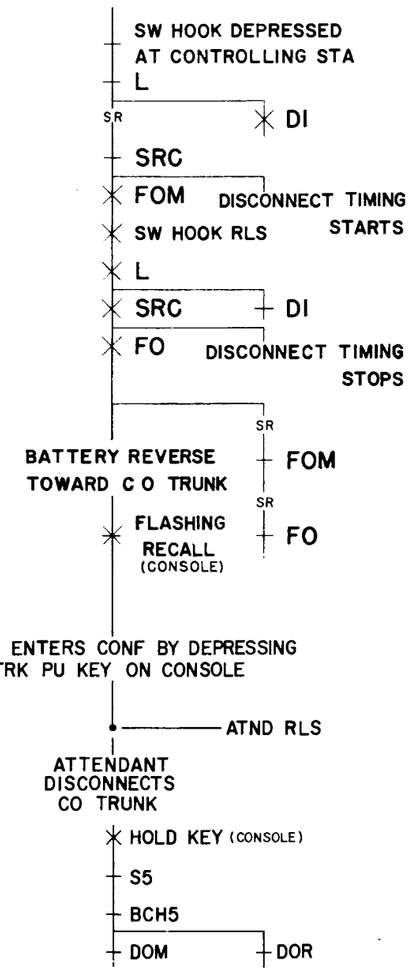
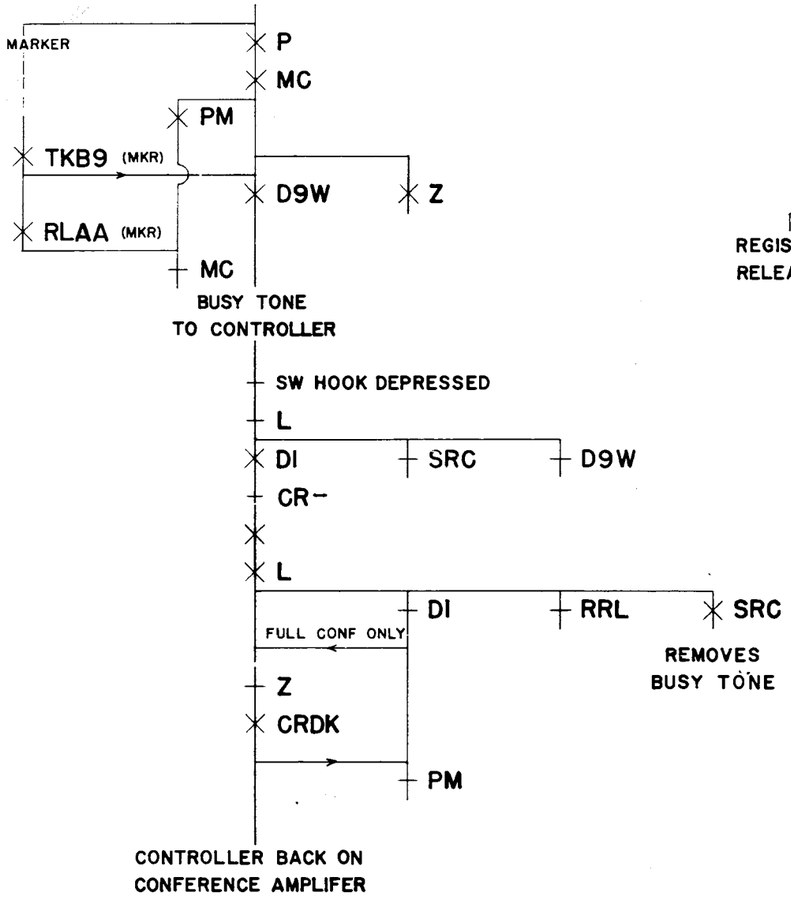
SC 8

CONTROLLER RECALLS CONSOLE ATTENDANT TO C O TRUNK WITH ALL PORTS IN USE & TRUNK ON PORT 5



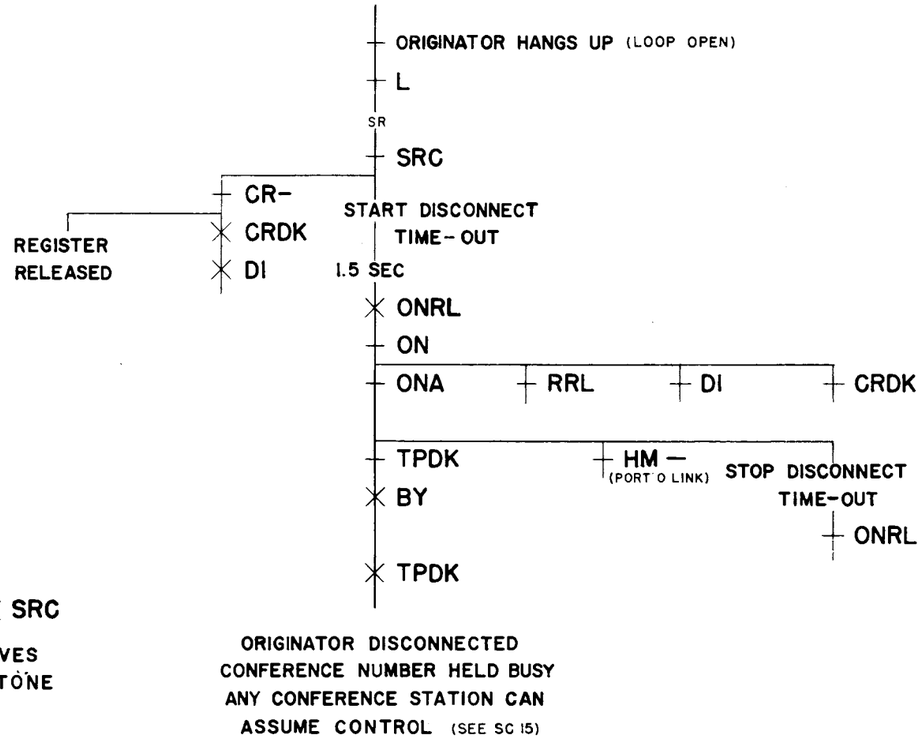
SC 9

CONTROLLER DIALS 9 OR 9__ TO GET CO TRUNK & SERVICE IS DENIED
REGISTER CALLS MARKER & REVERSES BATTERY TO CALLING PORT



SC 10

ORIGINATOR DISCONNECTS WHILE REGISTER IS ATTACHED



DRAWING ISSUE

1	WPR KFJ
2D	WPR WFF KFJ
3D	PJS EEU GFH
5D	BJH SAK GFH

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5

DIAL CONFERENCE TRUNK CIRCUIT (2)

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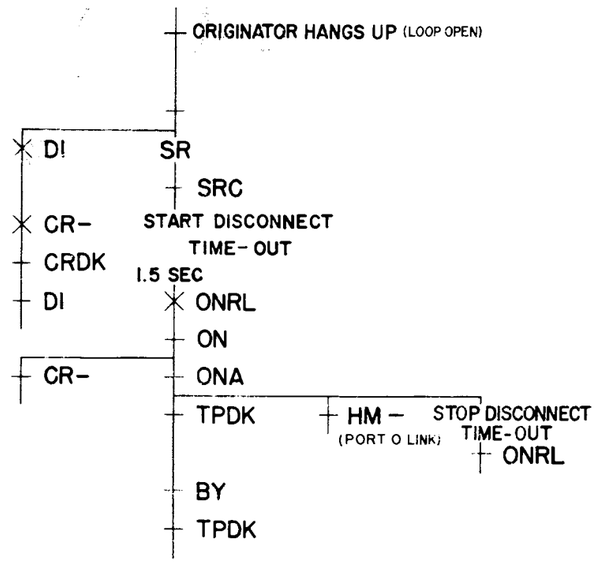
SC 11

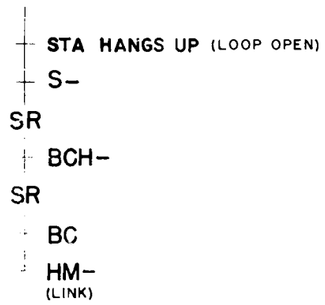
ORIGINATOR DISCONNECTS
WHILE ON CONFERENCE AMPLIFIER



ORIGINATOR DISCONNECTED ;
CONFERENCE NUMBER HELD BUSY;
ANY CONFERENCE STATION CAN
ASSUME CONTROL (SEE SC 15)

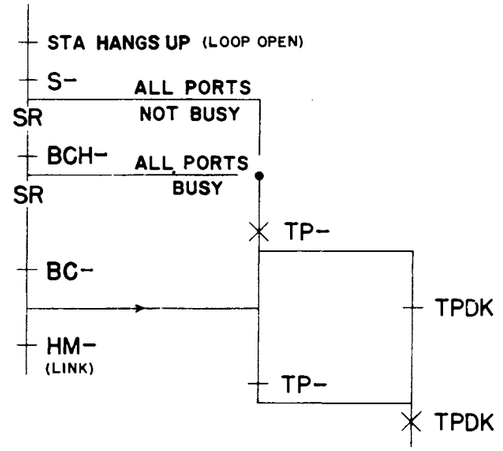
SC 12

ADDED STATION DISCONNECTS
WITH ORIGINATOR IN CONTROL ;
THREE OR MORE STATIONS IN CONF



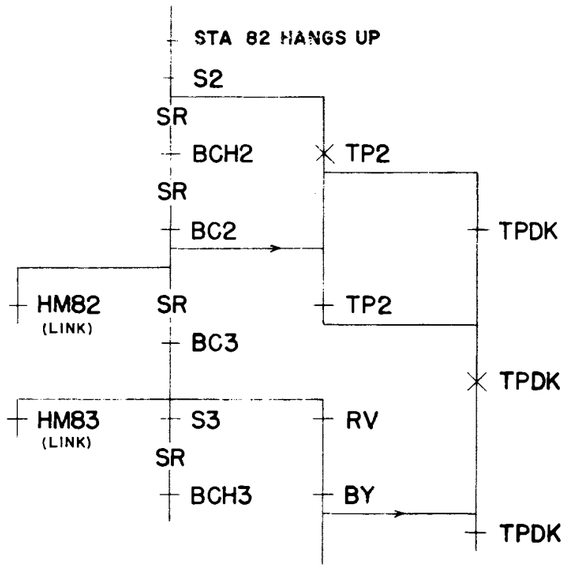
SC 13

ADDED STATION NOT IN CONTROL
DISCONNECTS WITH ORIGINATOR
DISCONNECTED ; THREE OR MORE
STATIONS IN CONFERENCE



SC 14

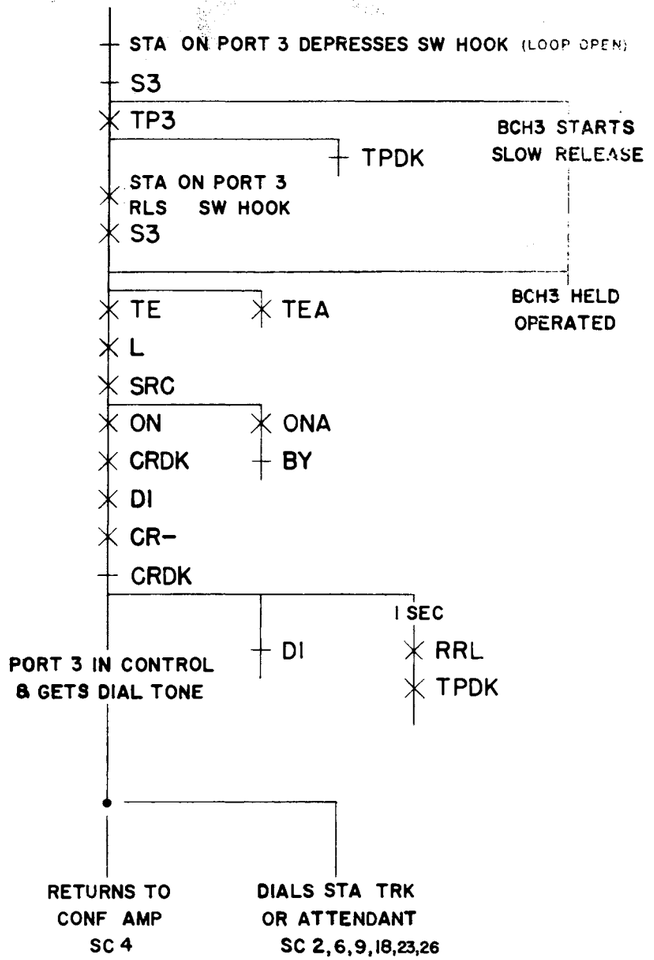
NEXT TO LAST STATION DISCONNECTS
WITH ORIGINATOR DISCONNECTED ;
ASSUME SW VERT 82 & 83 IN USE



CONFERENCE CONTROL NUMBER
FREE FOR NEXT CALL

SC 15

STATION ON PORT 3 ASSUMES CONTROL
AFTER ORIGINATOR DISCONNECTS



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51

DIAL CONFERENCE TRUNK CIRCUIT

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SC 16

STATION 3 DISCONNECTS AFTER
TAKING CONTROL ASSUME STA
ON CONF AMP & SOME PORTS NOT USED

STA ON PORT 3 HANGS UP
L
SR
SRC
START DISCONNECT
TIME-OUT
1.5 SEC
ONRL
DI
CR-
CRDK
DI
ON
ONA
CR-
TE
TEA
TPDK
TP3
BY
TPDK
S3
RECYCLE DISCONNECT
TIMING
ONRL
TP3
SR
TPDK
BCH3
SR
BC3
TP3
TPDK

SC 17

CONTROLLER IN CONFERENCE FLASHES SWITCH HOOK
WITH ALL PORTS BUSY

CONTROL STA DEPRESSES SW HOOK (LOOP OPEN)
L
DI
SR
SRC
D9W
CONTROL STA
RLS SW HOOK
L
DI
SRC
Z
FOM
FO
SR REV BAT. ON PORT 5
(CALLS ATTENDANT
TO C O TRUNK IF CONN)
CRDK
FOM
SR
FO
NORM BAT. ON PORT 5
CONTROLLER OFF CONF AMP
& RECEIVING BUSY TONE
(ALL PORTS BUSY INDICATION)
DEPRESSES SW HOOK
L
SR
D9W
SRC
RLS SW HOOK
BUSY TONE
REMOVED
L
FOM
SRC
Z
FO
SR REV BAT. ON PORT 5
CRDK
FOM
SR
FO
NORM BAT. ON PORT 5
CONTROLLER BACK ON
CONFERENCE AMPLIFIER

SC 18 (MFR DISC. SEE SC 26)

CONTROLLER ADDS DIAL REPEATING TIE TRUNK
REGISTER ATTACHED
(WITHOUT CONSULTATION)

L CONTROLLER DIALS TIE TRUNK TERMINATION
REGISTER REVERSES BATTERY
& CALLS MARKER
MARKER ATT
P
MC
CCC
(MKR)
PM
TKB8 (MKR)
D8
P (RELEASES WHEN MARKER & REGISTER
FUNCTIONS ARE COMPLETED)
RLAA (MKR)
MC
CONTROL STA CONNECTED TO TIE
TRUNK VIA A CONFERENCE PORT
CONTROLLER DIALS NO
OF DISTANT PBX STATION
DISTANT STA BUSY OR DA
RINGBACK OR BUSY
TONE TO CONTROLLER
DISTANT STA ANSWERS
TIE TRUNK REVERSES BAT.
P
RT
D8
BC-
S-
CR-
BCH-
CRDK
RT
PM
RRL
CONTROL STA & TIE TRUNK
STA ON CONF AMP

DRAWING ISSUE
1 KFJ
2D WPA JFF KFJ
5D JJH SAK GFH

5

DIAL CONFERENCE
TRUNK CIRCUIT (2)
SD-66902-01-E5
BELL TELEPHONE LABORATORIES
INCORPORATED
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SC 19 (MFR DISC SEE SC 30)

CONNECTING PARTY INTO CONFERENCE THRU CORD SWITCHBOARD WITHOUT CONSULTATION; PREVIOUS ACTION SHOWN IN FIRST HALF OF SC 6

ATTENDANT CALLS PARTY VIA CORD PLUGGED INTO ATTENDANT TRUNK JACK

ATTENDANT REMOVES BACK CORD FROM ATTENDANT TRUNK JACK AND PLUGS IT INTO JACK APPEARANCE OF PORT 5

CO

S5

BCH5

BC5

REMOVES VACANT PORT LOAD FROM PORT 5

GROUNDS SLEEVE OF SWITCHBOARD JACK

CONNECTS TIP AND RING THRU TO PORT 5

SC 20

CONTROLLER RECALLS ATTENDANT WITH ALL PORTS IN USE AND PORT 5 CONNECTED THRU CORD SWITCHBOARD

SW HK DEPRESSED AT CONTROLLING STA

L

DI

SR

SRC

FOM

DISCONNECT TIMING STARTS

SW HOOK RLS

L

SRC

DI

DISCONNECT TIMING STOPS

FO

F O TIMING STARTS

SWBD LOOP OPENED

750 MILLISECONDS

SR

FOM

FO

SWBD LOOP RESTORED

FLASHING RECALL (SWBD)

ATTENDANT RE-ENTERS CONFERENCE BY DEPRESSING SWBD CORD KEY

SC 21

NEXT TO LAST STATION DISCONNECTS WITH ORIGINATOR DISCONNECTED AND LAST STATION CONNECTED TO PORT 5 THRU CORD SWITCHBOARD ASSUME SW VERT 82 & 85 IN USE

STATION 82 HANGS UP

S2

CO

SR

HM 85

TP2

SR

BACK CORD LAMP LIGHTS (SWBD)

S5

BCH 2

SR

TP5

SR

BC2

BCH 5

TPDK

HM82

DOM

RV

SR

BC5

TP2

BY

TP5

CONF CKT AVAILABLE FOR NEXT CONF

DRAWING ISSUE		
3D	PJS RKW GFH	HW
5D	JJH SAK GFH	

5

DIAL CONFERENCE TRUNK CIRCUIT (2)

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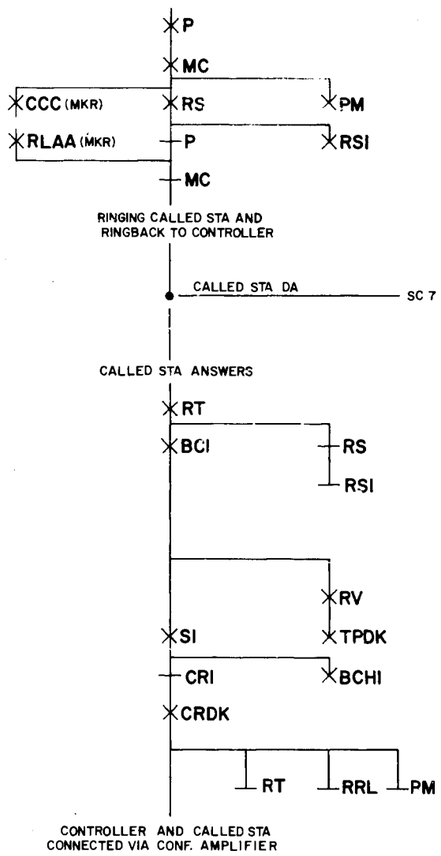
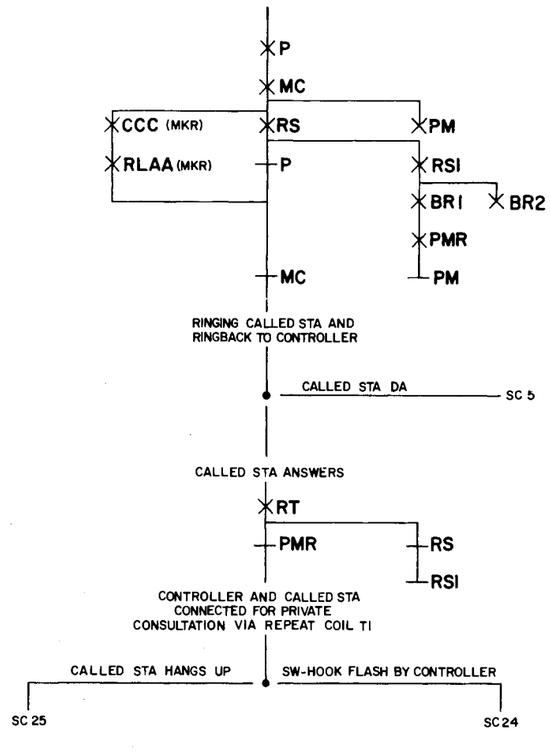
SC 22

ADDING FIRST STATION (WITH CONSULTATION)
CONFERENCE CONTROLLER COMPLETES DIALING,
REGISTER CALLS MARKER-REVERSES BATTERY



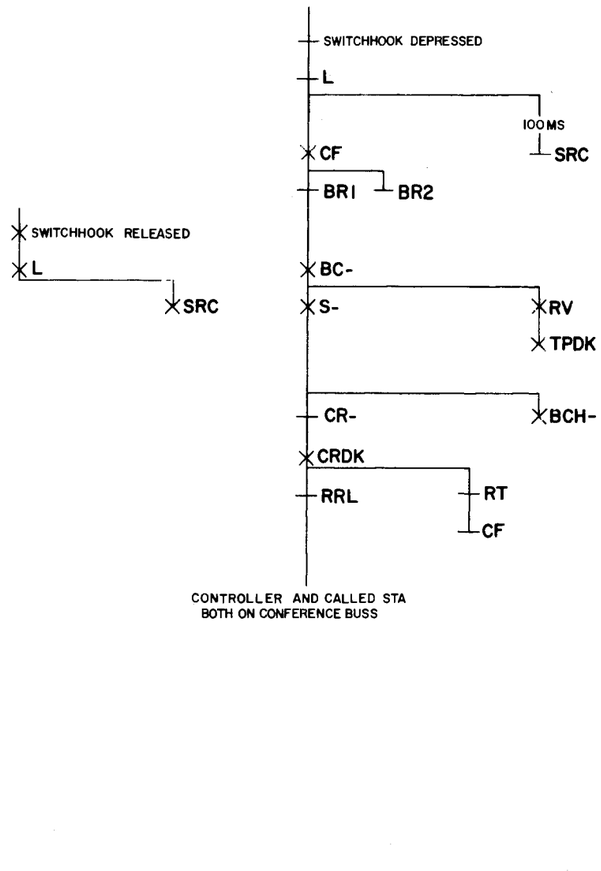
SC 23

ADDING ANY STATION AFTER THE FIRST ONE (WITH CONSULTATION)
CONFERENCE CONTROLLER COMPLETES DIALING; REGISTER CALLS MARKER
AND REVERSES BATTERY; PRIVATE CONSULTATION



SC 24

CONTROLLER AND CALLED STATION ENTER CONFERENCE (WITH CONSULTATION):
CONTROLLER FLASHES SWITCHHOOK TO REACH CONFERENCE BUSS



DRAWING ISSUE
5D
UJH SAK GFH

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DIAL CONFERENCE TRUNK CIRCUIT (2)

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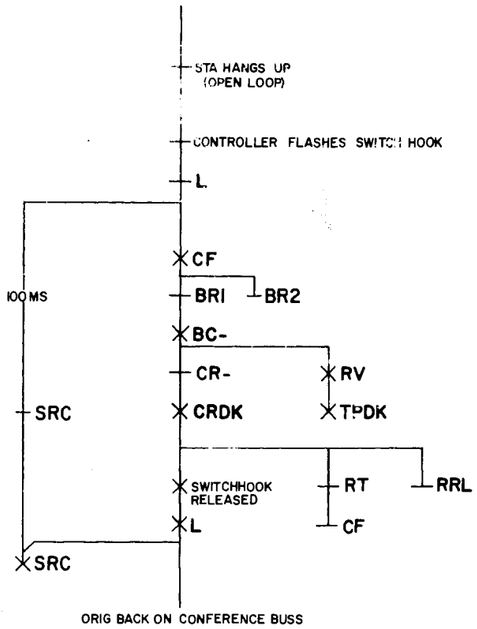
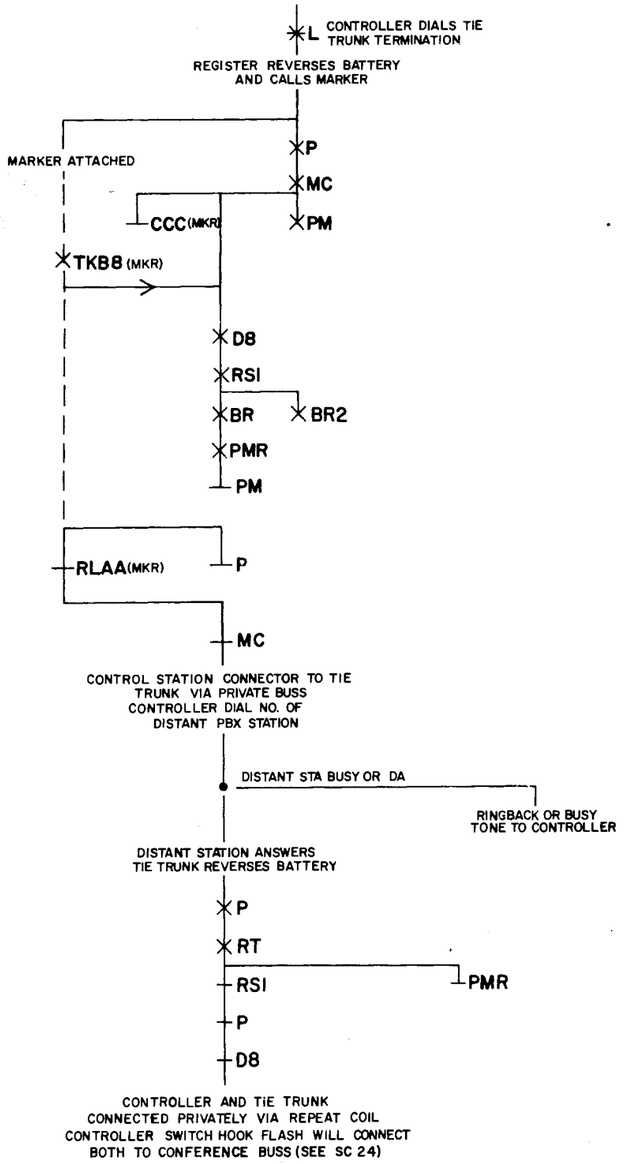
SC 25

CALLED STATION DISCONNECTS DURING CONSULTATION (WITH CONSULTATION)



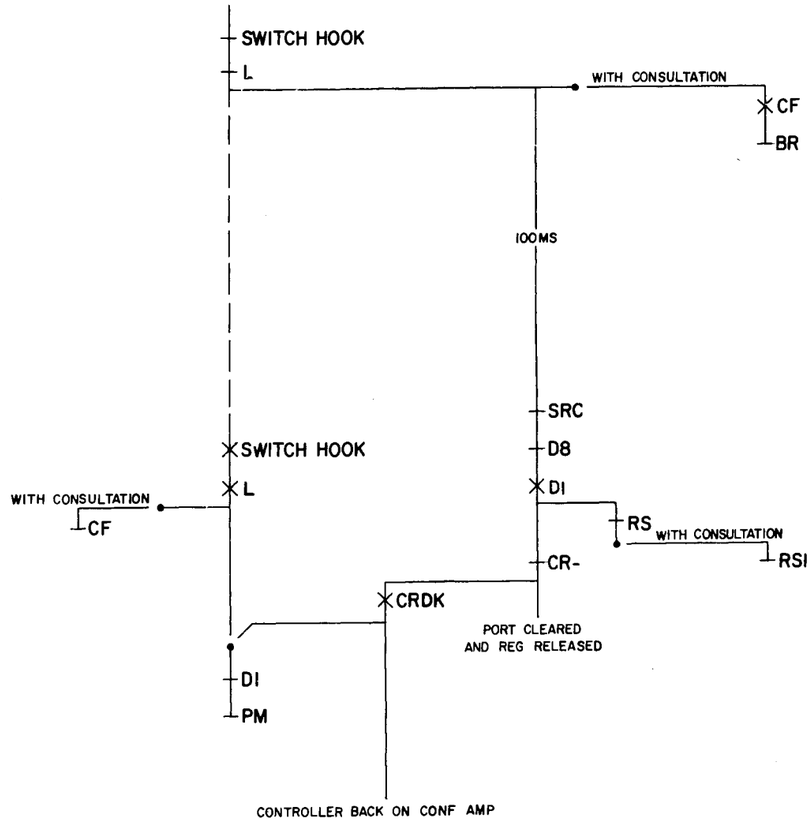
SC 26

CONTROLLER ADDS DIAL REPEATING TIE TRUNK (WITH CONSULTATION) AT LEAST ONE STATION ON CONFERENCE BUSS REGISTER ATTACHED



SC 27

CONTROLLER RETURNS TO CONF WHEN DIAL REPEATING TIE TRK IS BUSY OR DA



DRAWING ISSUE
5D UJH SAK GFH

5

DIAL CONFERENCE TRUNK CIRCUIT (2)

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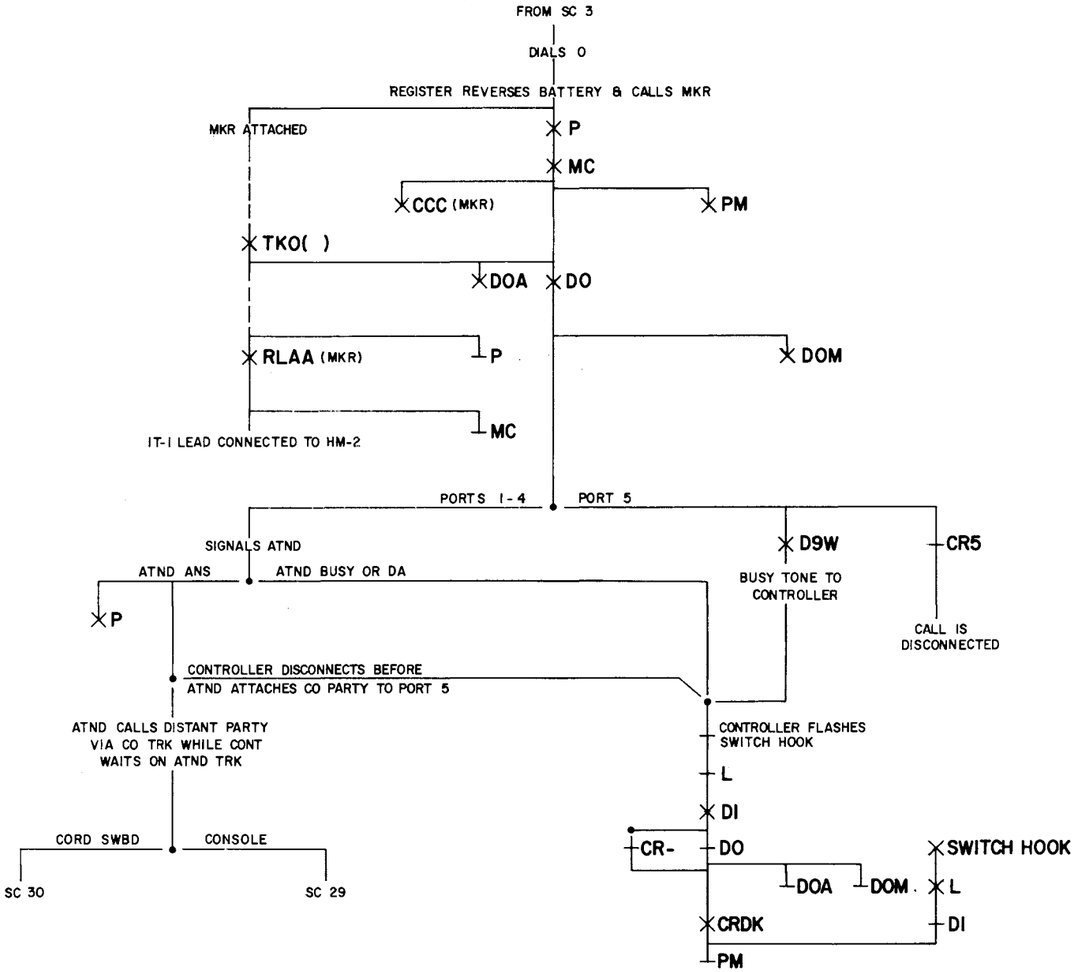
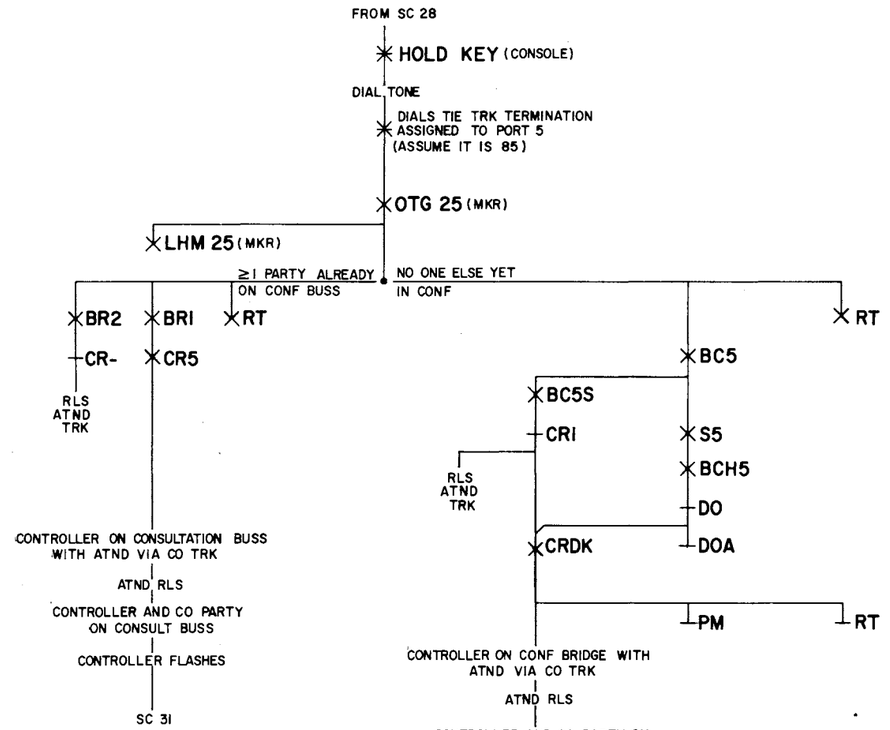
SC 28

CONTROLLER CALLS ATND TO ADD CO PARTY



SC 29

CONSOLE ATND DIALS IN CO PARTY



SD-66902-01-E9

5

DIAL CONFERENCE TRUNK CIRCUIT (2)

SD-66902-01-E9

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SIZE 6S

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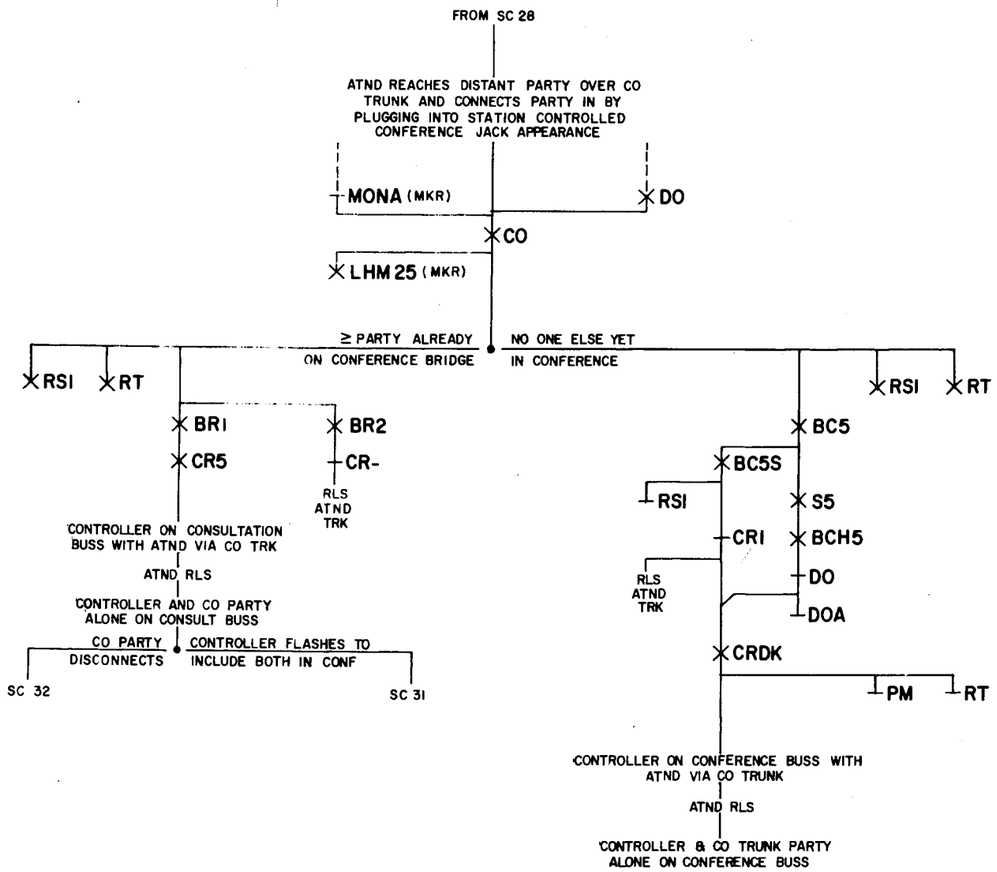
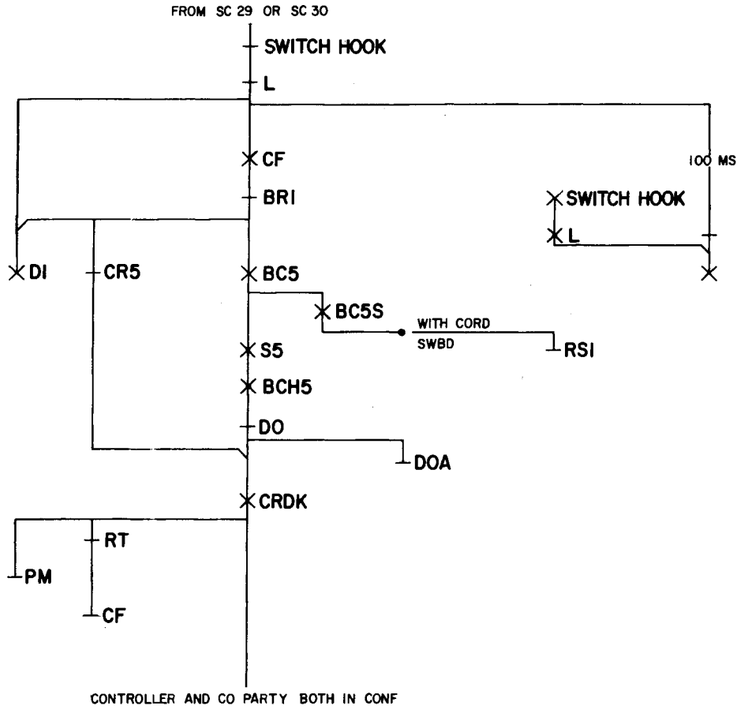
SC 30

CORD SWBD ATND PLUGS CO PARTY INTO PORT 5



SC 31

CONTROLLER FLASHES TO INCLUDE BOTH CONTROLLER AND CO PARTY IN CONFERENCE



DRAWING ISSUE 5 JJH SAK GFH

HW

5

DIAL CONFERENCE TRUNK CIRCUIT

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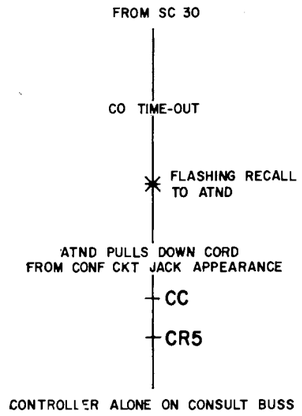
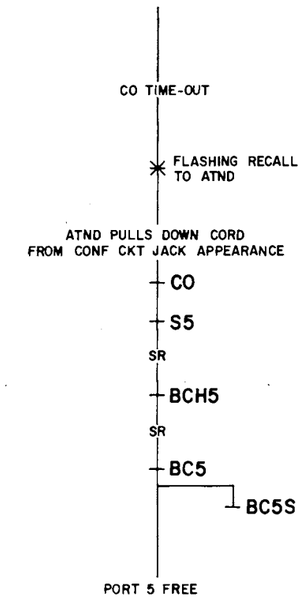
SC 32

CO PARTY CONNECTED THRU CORD SWBD
DISCONNECTS WHILE ON CONSULT BUSS



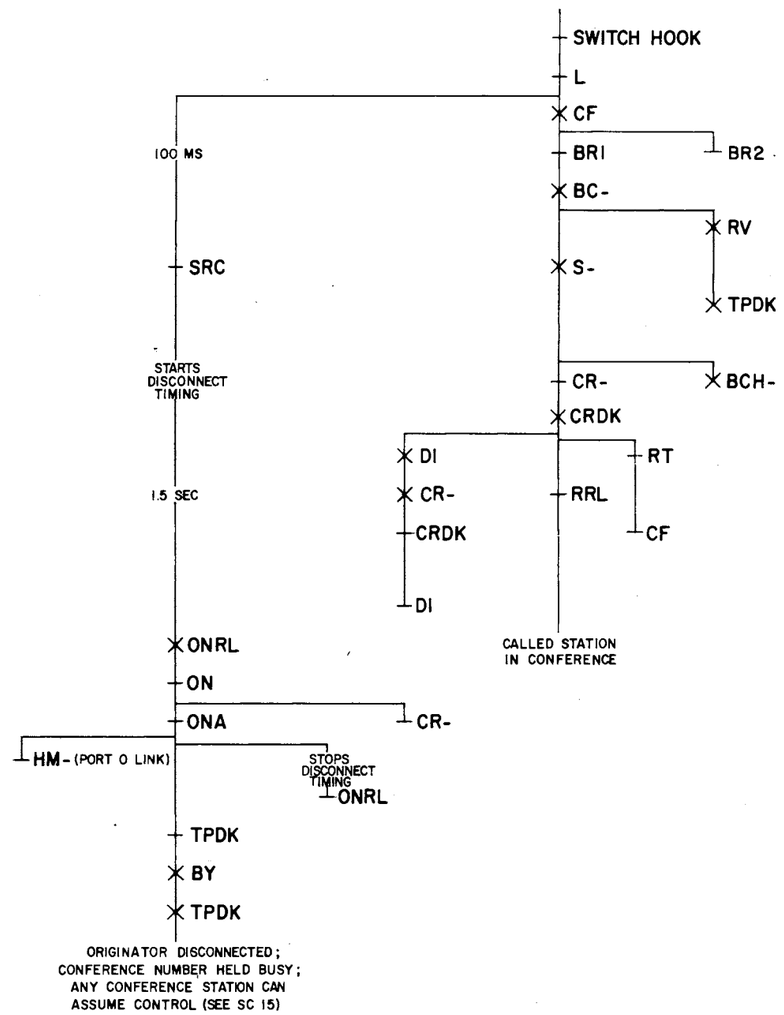
SC 33

CO PARTY CONNECTED THRU CORD SWBD
DISCONNECTS WHILE ON CONFERENCE



SC 34

ORIGINATOR DISCONNECTS WHILE ON
CONSULT BUSS WITH ANOTHER STATION



DRAWING ISSUE
3 UJH SAK GFH

5

DIAL CONFERENCE
TRUNK CIRCUIT
(2)

SD-66902-01-E11

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SD-66902-01 2 PAGES

CIRCUIT REQUIREMENTS

NO. 756 DIAL CONFERENCE TRUNK CIRCUIT

DRAWING ISSUE: SUPERSEDES ISS 4D — 5D — JJH SAK GFH

APPARATUS DESIG	CODE	OPT.	FIG.		MECH REQT BSP FIG.	CONT PRES	ARM. TRVL.	CIRCUIT PREPARATION BLOCK OR INSULATE	TEST CLIP DATA CONN BAT.	CONN GRD	TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT TEST WDG	TEST FOR	AFTER SOAK MA	TEST MA	READJ MA	REMARKS
RELAYS																		
BC1-4	AG20		1		262B					U(BC1-4)	G			0	20	10.7	10.2	
								(RV)NO						H	20	2.0	1.9	
														R	20	1.0	1.1	
BC5	AG20		1		262B					U(BC5)	G			0	20	11.2	10.2	
								11(BC5)						H	20	2.1	1.9	
														R	20	1.0	1.1	
BC5S	1/2AK4				202					1U(BC5S)	G			0		11.9	11.3	MOUNTED WITH PMR
BCH1-5	AG24		1		18B					U(BCH1-5)	G			0	36	13.7	13	BLK FOR BCH5 ONLY
								(RV)NO		U(BCH1-5)	G			H	36	1.6	1.5	
										U(BCH1-5)	G			R	36	0.7	1.0	
BR1	AF88	3	3					(CF)O		U(BR)	G			0	.	44.5	42.5	
BR2	1/2AK4	M		1	202					1L(BR2)	G			0		62.5	59.5	MOUNTED WITH ONRL
BY	1/2AK4			1	202			1,4(BY)		1L(BY)	G			0		12.4	11.3	MOUNTED WITH ONA
CF	AJ15	3	3		249					1L(CF)	G			0		42.5	40.5	
CO	AJ5	2	2		220				1L(CO)	1U(CO)				0		13.2	12.6	
CR1	1/2AK4		1		202					1L(CR1)	G			0		11.9	11.3	MOUNTED WITH CR2
CR2	1/2AK4		1		202					1U(CR2)	G			0		11.9	11.3	MOUNTED WITH CR1
CR3	1/2AK4		1		202					1L(CR3)	G			0		11.9	11.3	MOUNTED WITH CR4
CR4	1/2AK4		1		202					1U(CR4)	G			0		11.9	11.3	MOUNTED WITH CR3
CR5	1/2AK4		1		202			3(CR5)		1L(CR5)	G			0		12.4	11.3	MOUNTED WITH CRDK
CRDK	1/2AK4		1		202					1U(CRDK)	G			0		11.9	11.3	MOUNTED WITH CR5
DO	AJ15	Y	1		249					1U(DO)	G			0		59	56.5	
DO	AF98	Z	1		245			(DOM)NO		U(DO)	G			0		14.8	14.1	
DOA	1/2AK4	3	3		202					1U(DO)	G			0		56	53	
DOM	1/2AK8		1		204					1U(DOM)	G			0		9.1	8.7	MOUNTED WITH Z
										1U(DOM)	G			R		1.7	1.8	
DOR	1/2AK4	Y	1		202					1L(DOR)	G			0		11.9	11.3	MOUNTED WITH ONRL
D1	1/2AK30		1		202					1L(D1)	G			0		23	22	MOUNTED WITH D9W
D8	1/2AK4		1		202					1U(D8)	G			0		11.9	11.3	MOUNTED WITH TPDK
D9W	1/2AK30		1		202					1U(D9W)	G			0		23	22	MOUNTED WITH D1
FO	AG44		1		281B					1U(FO)	G		P	0	46	23.6	21.5	REQT APPLY WITH SEC
								3,5(FO)		1U(FO)	G		P	H	46	4.2	3.3	WINDING SHORT
										1U(FO)	G		P	R	46	2.2	2.4	CIRCUITED
										1U(FO)	G		S	0		7.1	65	
FOM	1/2AK37		1		201					1L(FOM)	G	2		0	35	23	22	MOUNTED WITH RRL
										1L(FOM)	G	2		H	35	2.6	2.5	
L	AJ52	V	1		303			(SRC)NO	1L(L)	2U(L)	M		P/S	0		13.2	12.6	
	AJ138	M	1		56B				1L(L)	2U(L)	M		P/S	R		3.1	3.3	
MC	AJ15		1		249			2(MC) (PM)NO		U(MC)	G			0		42.5	40.5	

PAGE 1

DIAL CONFERENCE TRUNK CIRCUIT		SD-66902-01-FI
BELL TELEPHONE LABORATORIES INCORPORATED		PRINTED IN U. S. A.

CIRCUIT REQUIREMENTS

DRAWING ISSUE: SUPERSEDES ISS 4D — 5D — JJH SAK GFH

APPARATUS DESIG	CODE	OPT.	FIG.		MECH REQT BSP FIG.	CONT PRES	ARM. TRVL.	CIRCUIT PREPARATION BLOCK OR INSULATE	TEST CLIP DATA CONN BAT.	CONN GRD	TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT TEST WDG	TEST FOR	AFTER SOAK MA	TEST MA	READ MA	REMARKS
ON	AF83		1		8			(ONA) (BY) NO (CRDK) (ONRL) O		U(ON)	G			0		8.1	7.9	
ONA	1/2AK4		1		202			9,12(ONA)		1U(ONA)	G			C		12.4	11.3	MOUNTED WITH ONT
ONRL	1/2AK4		1		202					1U(ONRL)	G	1		0		11.9	11.3	MOUNTED WITH DOR
P	1/2AK30		1		202			(MC)NO	1L(P)	2L(P)	B/G			0		23	22	MOUNTED WITH RS
PM	1/2AK4		1		202					1U(PM)	G			0		11.9	11.3	MOUNTED WITH RV
PMR	1/2AK4	3	3		202					1L(PMR)	G			0		11.9	11.3	MOUNTED WITH BC5S
RRL	1/2AK37		1		201					1U(RRL)	G			0		14.1	13.5	MOUNTED WITH FOM
RS	1/2AK30		1		202					1U(RS)	G			0		23	22	MOUNTED WITH P
RSI	1/2AK4	3	3		202					1U(RSI)	G			0		11.9	11.3	MOUNTED WITH DOA
RT	AJ58		1		308					1U(RT)	G		P	0		28	26.5	EM CONTACTS ONLY
																		NEED MAKE
										1U(RT)	G		P	0		29.5	28	
										1U(RT)	G		P	NO		20	21.5	
										2U(RT)	G		S	0		19	18	
RV	1/2AK4		1		202			(L)NO (BY)NO		1L(RV)	G			0		11.9	11.3	MOUNTED WITH PM
S1-5	AJ52		1		303			(BCH1-5)NO	1L(S1-5)	2U(S1-5)	M		P/S	0		13.2	12.6	BLK ONLY NUMERICAL
									1L(S1-5)	2U(S1-5)	M		P/S	R		3.1	3.3	EQUIVALENT OF RELAY
																		UNDER TEST
SRC	AG44		1		281B					1U(SRC)	G		P	0	46	23	21.5	
								(ON)NO		1U(SRC)	G		P	H	46	4.0	3.8	REQT APPLY WITH SEC
								(ONA)NO		1U(SRC)	G		P	R	46	2.1	2.4	WINDING SHORT
										1U(SRC)	G		S	0		70	65	CIRCUITED
TE	AJ5		1		220			(TEA)NO		U(TE)	G			0		13.2	12.6	
TEA	1/2AK4		1		202			(TE)NO		1U(TEA)	G			0		11.9	11.3	MOUNTED WITH TP5
TP1	1/2AK4		1		202					1L(TP1)	G			0		11.9	11.3	MOUNTED WITH TP2
TP2	1/2AK4		1		202					1U(TP2)	G			0		11.9	11.3	MOUNTED WITH TP1
TP3	1/2AK4		1		202					1L(TP3)	G			0		11.9	11.3	MOUNTED WITH TP4
TP4	1/2AK4		1		202					1U(TP4)	G			0		11.9	11.3	MOUNTED WITH TP3
TP5	1/2AK4		1		202					1L(TP5)	G			0		11.9	11.3	MOUNTED WITH TEA
TPDK	1/2AK4		1		202					1L(TPDK)	G			0		11.9	11.3	MOUNTED WITH D8
Z	1/2AK8		1		204					1L(Z)	G			0		17	16	MOUNTED WITH DOM

SHEET NOTES:

1. REMOVE THE RELAY DELAY TIMER ED-66715 OR ED-99556 OR ED99555 FROM CONNECTOR "RD" BEFORE TEST.
2. REMOVE THE RELAY DELAY TIMER ED-99555 FROM CONNECTOR "RD" BEFORE TEST.

PAGE 2

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DIAL CONFERENCE TRUNK CIRCUIT (2)		SD-66902-01-FI
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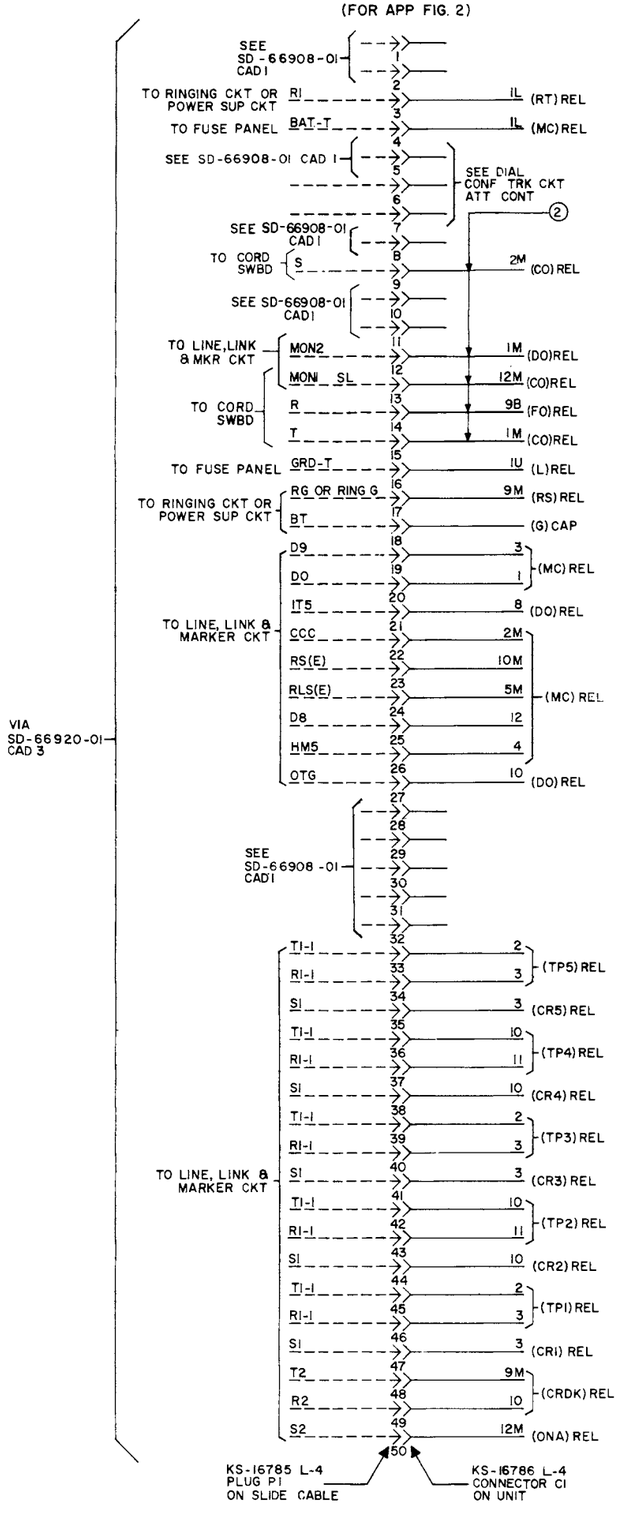
CAD 1
(FOR APP FIG. 2)



DRAWING ISSUE	
SUPERSEDES ISS 1	
2D	RKJ WAF MCJ
3D	PJS RKJ GFH
4D	JJH SAK GFH
6D	BMM PJS RHP

DIAL CONFERENCE TRUNK CIRCUIT ②

SD-66902-01-GI

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SHEET INDEX

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OPTION INDEX APPARATUS INDEX LEAD INDEX	A2	1	1	1	1	5	6	A2
FS1 - OFF NORMAL AND CALLING CONTROL	B1	1	1	3	3	5	6	B1
FS2 - CALLING PORTS	B2	1	2	2	2	5	5	B2
FS3 - STEERING AND CONNECT	B3	1	2	2	4	4	6	B3
FS4 - CONFERENCE BRIDGE CIRCUIT	B4	1	1	1	1	5	5	B4
APPARATUS FIGURE 1	C1	1	2	2	2	5	6	C1
CIRCUIT NOTES (101-105) EQUIPMENT NOTES (201-203) TRANSMISSION TEST REQTS TABLE WORKING LIMITS	D1	1	2	3	3	5	6	D1
INFORMATION NOTES (301)	D2	1	1	1	1	5	5	D2
INFORMATION NOTES (391) CROSS CONNECTING INFO AND NOTES (401)	D3	1	2	2	2	5	5	D3
SC1 - ATTENDANT SEIZES CONFERENCE CIRCUIT SC2 - ATTENDANT CONNECTS FIRST CONFEREE SC3 - ATTENDANT CONNECTS REMAINING PARTIES TO CONFERENCE SC4 - ATTENDANT RETURNS TO CONFERENCE WHEN CALLED STATION IS BUSY OR DA SC5 - ATTENDANT RETURNS TO CONFERENCE AFTER DIAL TONE OR PARTIAL DIAL SC6 - CO TRUNK PARTY ADDED TO CONFERENCE	E1	1	1	1	1	5	5	E1
SC7 - DIAL REPEATING TIE TRUNK ADDED TO CONFERENCE SC8 - ATTENDANT RECALL SC9 - ATTENDANT DISCONNECT FROM CONFERENCE BRIDGE CKT MINIMUM OF TWO PARTIES IN CONFERENCE SC10 - CONFEREE STATION DISCONNECTS MINIMUM OF TWO PARTIES REMAINING IN CONFERENCE SC11 - NEXT TO LAST CONFEREE STATION DISCONNECTS WITH ATTENDANT DISCONNECTED (ASSUME SW VERTICALS 81 & 82 IN USE) SC12 - RELEASE CONFERENCE (Z) OPTION	E2	1	1	1	1	5	5	E2
CIRCUIT REQUIREMENTS TABLE AR1 TO ST	F1	1	2	2	2	2	2	F1
CAD 1	G1	1	2	3	3	3	3	G1

SUPPORTING INFORMATION

CATEGORY	NO.
EQUIPMENT DWGS	J - 58829AE
EQUIPMENT DESIGN REQ	J - 58829
RELAY DELAY TIMER	ED-66715-( )
TRANSISTORIZED CONFERENCE CIRCUIT	J-99294AA

SHEET INDEX NOTES

1. WHEN CHANGES ARE MADE IN THIS DRAWING, ONLY THOSE SHEETS AFFECTED WILL BE REISSUED.
2. 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.
3. THE ISSUE NUMBER ASSIGNED TO A CHANGED OR NEW SHEET WILL BE THE SAME ISSUE NUMBER AS THAT OF THE SHEET INDEX.
4. SHEETS THAT ARE NOT CHANGED WILL RETAIN THEIR EXISTING ISSUE NUMBER.
5. THE LAST ISSUE NUMBER OF THE SHEET INDEX IS RECOGNIZED AS THE LATEST ISSUE NUMBER OF THE DRAWING AS A WHOLE.

DWG ISSUE	CD ISSUE	DATE ISSUED	DRAWN	APPD
1	1	2/3/64	SAK JFF WPF	GKO RAV KFJ
2D	1 APP 1D	10-12-64	WPA SAK EAA	WPF RAV KFJ
3D	1 APP 2D	4-29-65	- SAK EAA	WPF RAV GFH
4A	2A	7-5-66	TEF SAK EEA	WES LAH GFH
5B	2A APP 1B	7-5-66	TEF SAK EEA	WES LAH GFH
6B PR	2A APP 2B	4-13-67	FED PVS RCL	SHA LAH RHP

6

SD-66908-01

PBX SYSTEMS
NO. 756 A
DIAL CONFERENCE
TRUNK CIRCUIT
ATTENDANT CONTROLLED (2)

AT & T CO.
STANDARD

SD-66908-01-A1
14 SHEETS

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APPARATUS INDEX

DESIG	LOCATION FS	APP FIG	EQPT
RELAYS			
AR1	1B9	1	
AR2	1C9	1	
AR3	1D9	1	
AR4	1E9	1	
AR5	1F9	1	
BC1	3B3	1	
BC2	3B4	1	
BC3	3B4	1	
BC4	3B5	1	
BC5	3B6	1	
BCH1	1H6	1	
BCH2	1H6	1	
BCH3	1H6	1	
BCH4	1H6	1	
BCH5	1H6	1	
CO	1H4	1	
CR1	3F4	1	
CR2	3F5	1	
CR3	3F6	1	
CR4	3F7	1	
CR5	3F8	1	
D8	3E2	1	
D8M	3C1	1	
FO	1B5	1	
L	1D2	1	
LO	3B2	1	
MC	3G2	1	
ON	1E4	1	
ONA	1D4	1	
P	1B2	1	
PM	1C5	1	
RC	1F6	1	
RRL	1F4	1	
RS	3F2	1	
RT	1B3	1	
S1	2E1	1	
S2	2E3	1	
S3	2E5	1	
S4	2E7	1	
S5	2E9	1	
ST	1F3	1	

DESIG	LOCATION FS	APP FIG	EQPT
CAPACITORS			
A	1D1	1	
B	2D1	1	
C	2D3	1	
D	2D5	1	
E	2D7	1	
F	2D9	1	
G1	1F6	1	
G2	1F6	1	
H	1B1	1	
K	1B1	1	

DESIG	LOCATION FS	APP FIG	EQPT
REPEAT COIL			
T1	1A1	1	

DESIG	LOCATION FS	APP FIG	EQPT
CONNECTOR			
RD	1E5	1	
CA	4B1	1	

DESIG	LOCATION FS	APP FIG	EQPT
DIODE			
A	1B2	1	
B	1B2	1	

DESIG	LOCATION FS	APP FIG	EQPT
RESISTORS			
R0	1D2	1	
R1	2E1	1	
R2	2E3	1	
R3	2E5	1	
R4	2E7	1	
R5	2E9	1	
R6	1F5	1	
R7	4H1	1	
S1	2G2	1	
S2	2G2	1	
S3	2G5	1	
S4	2G6	1	
S5	2G8	1	
SLA	1H1	1	
SLB	1H1	1	
TLA	1G1	1	
TLB	1G2	1	

DESIG	LOCATION FS	APP FIG	EQPT
THERMISTORS			
A	1F3	1	
B	1B6	1	

DESIG	LOCATION FS	APP FIG	EQPT
PLUG IN UNIT			
RD (Z)	1E5	1	
CA	4B1	1	

LEAD INDEX

DESIG	FS LOC	CAD LOC
CORDLESS POSITION CKT		
ACA_(A)	1E1	
ACA_(B)	1F1	
R_(A)	1E1	
SL_(A)	1F1	
SL_(B)	1G1	
T_(A)	1D1	
TL_(A)	1F1	
TL_(B)	1G1	

DESIG	FS LOC	CAD LOC
LINE LINK & MARKER CKT		
CCC	3H0	
CO	3B7	
DB	3E0	
RLS	3G0	
RS	3FD	
OT1	3C9	
OT2	3C9	
OT3	3D9	
OT4	3D9	
OT5	3E9	

DESIG	FS LOC	CAD LOC
CONFERENCE BRIDGE CIRCUIT		
R0	1C1	
R1	2D1	
R2	2D3	
R3	2D5	
R4	2D7	
R5	2D9	
T0	1D1	
T1	2D1	
T2	2D3	
T3	2D5	
T4	2D7	
T5	2D9	

DESIG	FS LOC	CAD LOC
PWR SUP OR RING (INT) CKTS		
FF2	1H1	
F2	1H1	
RI	1B3	
RG	1B3	

RELAY TIME DELAY CKT		
ON1	1E6	
ON2	1E6	
ON3	1E5	
ON4	1E5	

OPTION INDEX

APP OR WRG	LOCATION
Z	APP FIG. 1
Y	1E3, 1F2
X	1E3, 1F2
W	APP FIG.1, 4H1
V	APP FIG.1, 4H1
U	1G6, 1H7 3F3-8
T	1H6, 1G7 3F3-8

DRAWING ISSUE	
1	SAK MFF MFG MW
5B	TEF SAK GFH
6B	FED PJS PHP

DIAL CONFERENCE TRUNK CIRCUIT (2)

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FS1

OFF NORMAL AND CALLING CONTROL

2HO CT
2HO CR
RS
TI
K 2 UF
H .05 UF
L
P
640 Ω
RING G OR RG
RINGING CIRCUIT
RT
P-220 Ω
S-1150 Ω
-48
MC
CRDK
ST
ON
DB
PM
FO
2450 Ω
ARI
AR2
AR3
AR4
AR5
BCH1
SI
BCI
BC2
BC3
BC4
BC5
S2
S3
S4
S5
CONFERENCE BRIDGE CIRCUIT
T2
C2
RO
TO
SEQ
CORDLESS POSITION CIRCUIT (SEE NOTES 201-203)
PICK UP L KEY (__) CONF
T_(A)
R_(A)
P-400 Ω
S-400 Ω
ONA
BCH2
BCH3
BCH4
CO
LO
RC
RELAY TIME DELAY CIRCUIT
ED-66715-( )
RD
ON4
ON3
ON2
ON1
R6
1.5 MEG
G1
4 UF
G2
RRL
700 Ω
950 Ω
SP
NT
5100 Ω
ACA_(A)
ACA_(B)
SL_(A)
SL_(B)
SEE NOTE 108
TL_(A)
TL_(B)
TLA
TLB
900 Ω
PICK UP NL KEY (__)
SI RC
SI-5
BCH1-5
1050 Ω
POWER PLANT (INTERRUPTER)
INT
60 IPM
120 IPM
F2
FF2
SLA
SLB
3C7

DRAWING ISSUE

1	PFD	HW
3D	SAK	DFH
5B	TEP SAK	DFH
6B	FED NS	RHP

DIAL CONFERENCE TRUNK CIRCUIT (2)

SD-66908-01-BI

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SYS SIZE 6S

6

18-10-80699-SD

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FS 2
CALLING PORTS

DRAWING ISSUE		
1	PFD WFF KFJ	HW
2D	WPA SAK KFJ	HW
5B	TEF SAK GFH	

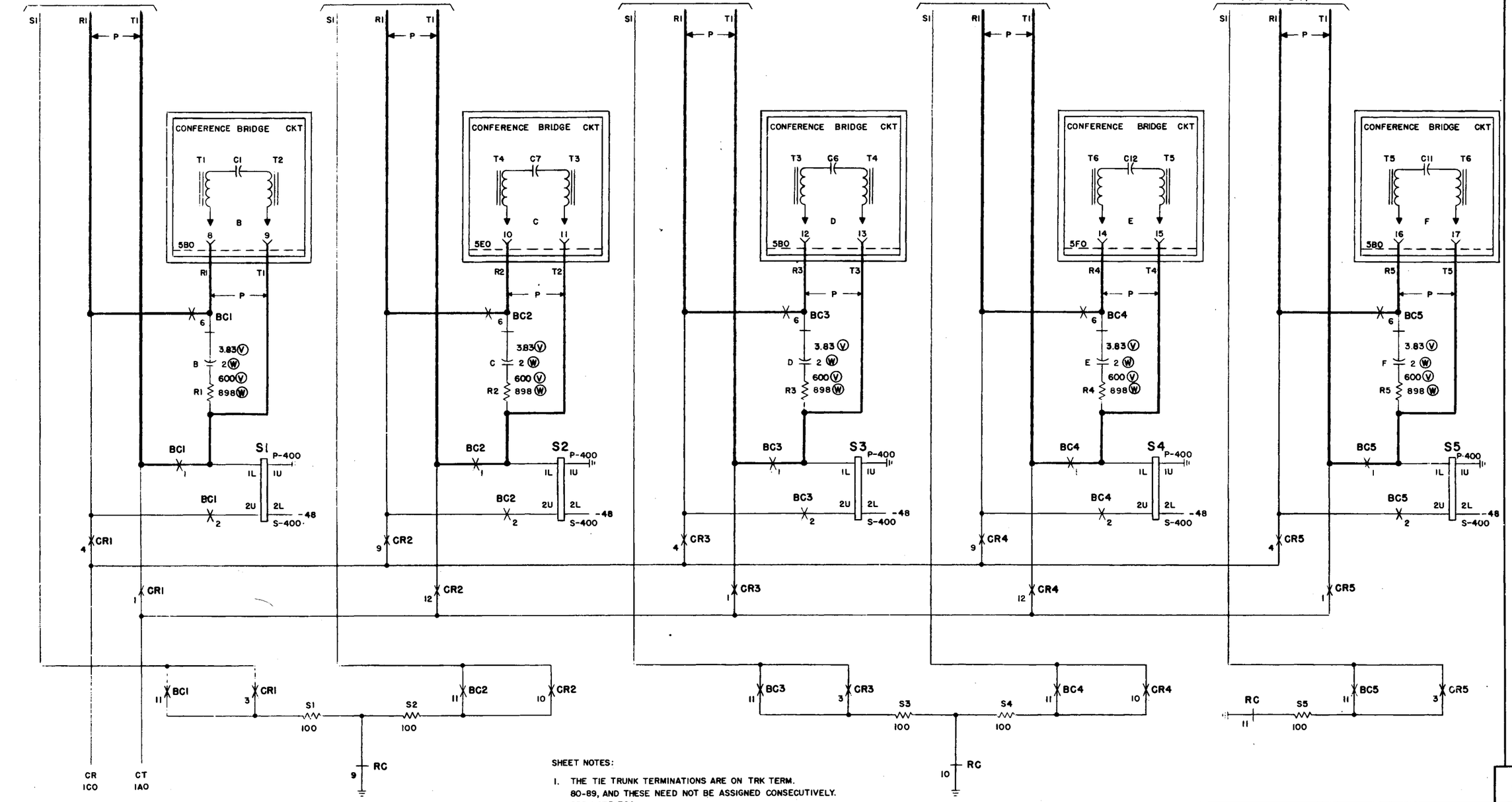
TO LINE, LINK AND MARKER CKT
TIE TRK TERMINATION ASSIGNED AS
PORT 1
(SEE NOTE 1)

TO LINE, LINK AND MARKER CKT
TIE TRK TERMINATION ASSIGNED AS
PORT 2
(SEE NOTE 1)

TO LINE, LINK AND MARKER CKT
TIE TRK TERMINATION ASSIGNED AS
PORT 3
(SEE NOTE 1)

TO LINE, LINK AND MARKER CKT
TIE TRK TERMINATION ASSIGNED AS
PORT 4
(SEE NOTE 1)

TO LINE, LINK AND MARKER CKT
TIE TRK TERMINATION ASSIGNED AS
PORT 5
(SEE NOTE 1)



SHEET NOTES:

1. THE TIE TRUNK TERMINATIONS ARE ON TRK TERM. 80-89, AND THESE NEED NOT BE ASSIGNED CONSECUTIVELY. SEE NOTE 302.

5

DIAL CONFERENCE TRUNK CIRCUIT

SD-66908-01-B2

BELL TELEPHONE LABORATORIES INCORPORATED

6S

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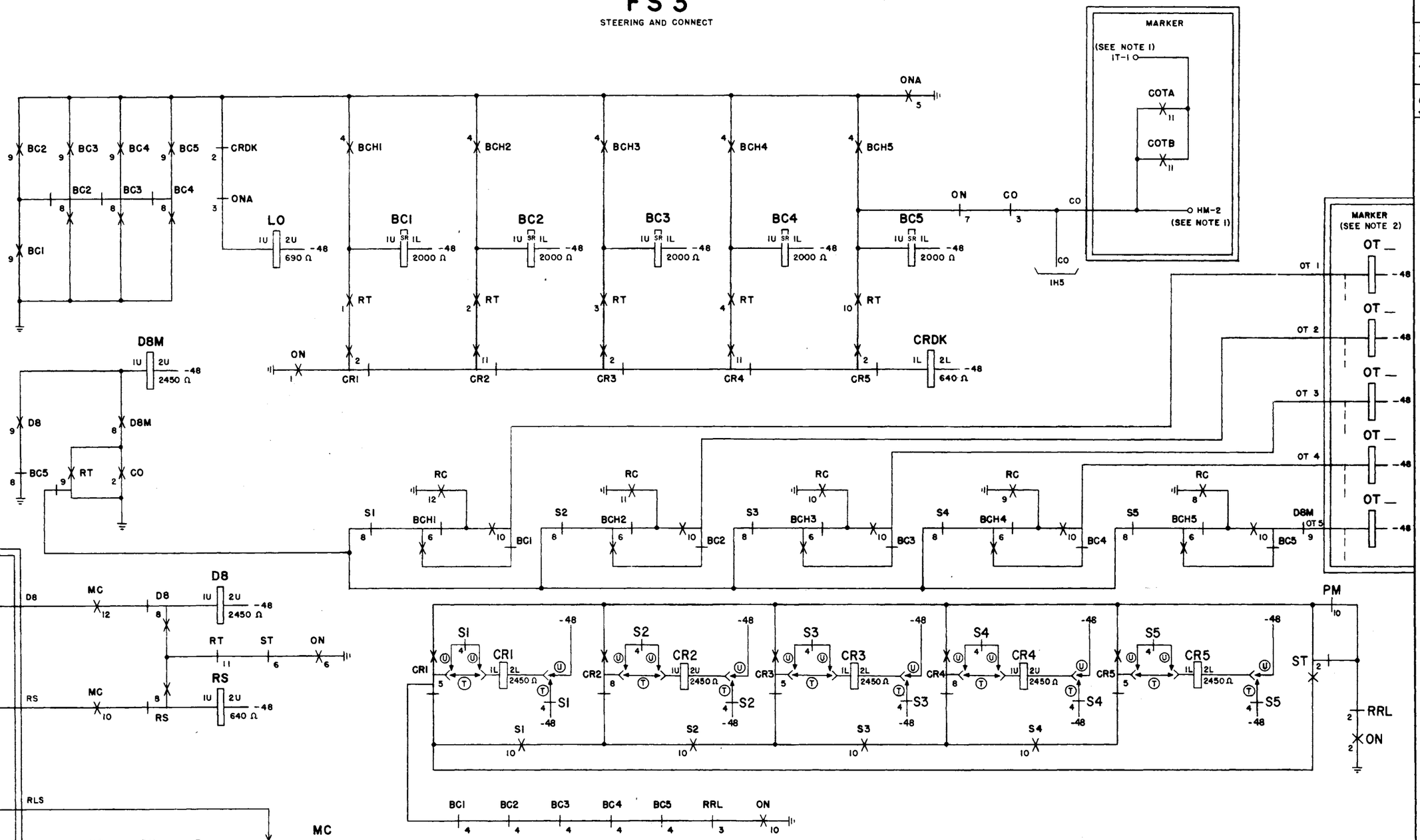
FS 3

STEERING AND CONNECT



SHEET NOTES:

1. USE TERMINAL OF TIE TRUNK ASSIGNED AS PORT 5.
2. USE OT_ RELAYS IN TRK CKTS ASSIGNED FROM THE UNIVERSAL LINES AS CONFERENCE PORTS 1-5. SEE NOTE 302.

DRAWING ISSUE

1	PFD JJF KFJ
2D	WPA SAK KFJ
4A	TEF SAK GFH
6B	FED RJS RHP

DIAL CONFERENCE TRUNK CIRCUIT (2)

BELL TELEPHONE LABORATORIES INCORPORATED

SD-66908-01-B3

6S

6

SD-66908-01-B3

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FS 4

CONFERENCE BRIDGE CIRCUIT

DRAWING ISSUE	
1	PFD WFF HW KFJ
5B	TEF SAK GFH

CA
906 B
CONN

2D9 T5 P 17 / R5 16
2D5 T3 P 13 / R3 12
2D1 T1 P 9 / R1 8
1D1 T0 P 7 / R0 6
2D3 T2 P 11 / R2 10
2D7 T4 P 15 / R4 14
20
3

CA
J-99294 AA

17 16 13 12 9 8 7 6 11 10 15 14 20 5

B D F A C E

ON
R7
KS-14603, LIA
715
48

BC1 BC2 BC3 BC4 BC5

5

DIAL CONFERENCE TRUNK CIRCUIT (2)

SD-66908-01-B4

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6S

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APP FIG. 1

RELAY

DESIG	AR1		AR2		AR3		AR4		AR5		F0		BC1		BC2		BC3		BC4		BC5		BCH1		DESIG
CODE	AK4												AG20										AG24		CODE
OPTION																									OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12			M	IC7			M	IC7			M	IA6	M	IB8	M	IC8	M	IE8	M	IF8	M	IG8			12
11			EBM				EBM				EBM		M	2G1	M	2G3	M	2G5	M	2G6	M	2G8			11
10			EBM				EBM				EBM	IE3	EBM	3E3	EBM	3E5	EBM	3E6	EBM	3E7	EBM	3E8	M	IB8	10
9			EMB	IC8			EMB	IE8			EMB	IH1	M	3B0	M	3B0	M	3B1	M	3B1	M	3B1			9
8			EMB	IH2			EMB	IH2			EMB		EMB		EMB	3B1	EMB	3B1	EMB	3B1	EMB	a	BM	ID6	8
7																									7
6													EMB	2D1	EMB	2D3	EMB	2D5	EMB	2D7	EMB	2D9	BM	3E3	6
5	EMB	IH1			EMB	IH2			EMB	IH3															5
4	EMB	IB8			EMB	ID8			EMB	IF8			EBM	3G3	EBM	3G3	EBM	3G4	EBM	3G4	EBM	3G4	M	3B2	4
3	EBM				EBM				EBM				M	4H1	M	4H1	M	4H1	M	4H1	M	4H1			3
2	EBM				EBM				EBM				EBM	2F1	EBM	2F3	EBM	2F5	EBM	2F7	EBM	2F9			2
1	M	IB7			M	IC7			M	ID7			M	2E1	M	2E3	M	2E5	M	2E7	M	2E9			1
COIL		IB9		IC9		ID9		IE9		IF9		IB5		3B3		3B4		3B4		3B5		3B6		IH6	COIL
																					a	IH5 3D0			

RELAY

DESIG	BCH2		BCH3		BCH4		BCH5		CO		D8		CR1		CR2		CR3		CR4		CR5		PM		DESIG
CODE	AG24		AG24		AG24		AG24		AK4				AK4				AK4				AK4				CODE
OPTION																									OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12											M	IC4			M	2F2			M	2F6			M		12
11											EBM	3G1			EBM	3C3			EBM	3C5			EBM		11
10	M	IC8	M	ID8	M	IE8	M	IF8			EBM				EBM	2G3			EBM	2G7			EBM	3E9	10
9											EMB	3DO			EMB	2F2			EMB	2F6			EMB	3G1	9
8	BM	ID4	BM	ID5	BM	ID5	BM	IH4			EMB	3E1			EMB	3F4			EMB	3F6			EMB	IC4	8
7																									7
6	BM	3E4	BM	3E5	BM	3E7	BM	3E8																	6
5									EMB	IH5			EMB	3F3			EMB	3F5			EMB	3F7			5
4	M	3B3	M	3B4	M	3B5	M	3B6	EMB	ID5			EMB	2FO			EMB	2F4			EMB	2F8			4
3									EBM	3B7			EBM	2G1			EBM	2G5			EBM	2G9			3
2									EBM	a			EBM	3C2			EBM	3C4			EBM	3C6			2
1									M	IH3			M	2FO			M	2F4			M	2F8			1
COIL		IH6		IH6		IH6		IH6		IH4		3E2		3F3		3F5		3F6		3F7		3F8		IC5	COIL
									a	IG8 3D1															

CAPACITOR

DESIG	LOC	CODE
(W,V) A	1D1	
B	2D1	(W) 542F,
C	2D3	
D	2D5	(V) 705G
E	2D7	
F	2D9	
G1	1F6	437A+, 4UF
G2	1F6	437A+, 4UF
H	1B1	542W, .05UF
K	1B1	542F, 2UF

CONNECTOR

DESIG	LOC	CODE
RD	1E5	KS-19198-L1
CA	4B1	906B

PLUG-IN UNIT

DESIG	LOC	CODE
(Z) RD	1E5	ED-66715-( )
CA	4B1	J-99294AA

RESISTOR

DESIG	LOC	CODE
(W,V) R0	1D2	
R1	2E1	(W) 145A, 898Ω
R2	2E3	
R3	2E5	(V) 145A, 600Ω
R4	2E7	
R5	2E9	
R6	1F5	145A, 1.5MEG.
R7	4H1	KS-14603-L1A, 715-Ω
[1] S1	2G2	19LC
S2	2G2	19LC
[1] S3	2G5	19LC
S4	2G6	19LC
S5	2G8	18BW
SLA	1H1	18FB
SLB	1H1	18FB
[1] TLA	1G1	19BA
TLB	1G2	19BA

DIODE

DESIG	LOC	CODE
A	1B2	446F
B	1B2	446F

REPEAT COIL

DESIG	LOC	CODE
T1	1A1	202A, .25r

THERMISTOR

DESIG	LOC	CODE
A	1F3	1A
B	1B6	1C

RELAY

DESIG	CRDK		LO		L		MC		ON		ONA		DBM		P		RS		RRL		RC		RT		DESIG
CODE	AK6				AJ52		AJ15		AF33		AK4				AK30				AK4				AJ58		CODE
OPTION																									OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12			BM				EBM	3E1	M	1D4			M				M				M	3D3	EM	1B4	12
11			BM	1F2			EBM	1C2	M	1G1			EBM				EBM	1B1			EBM	3D4	B	3F2	11
10			BM	1G7	M	1A2	EBM	3F1	M	3G5			EBM				EBM	1C1			EBM	3D6	M	3C6	10
9			BM	1G2			EBM	1C5	M	1G4			EMB	3E9			EMB	1A1			EMB	3D7	BM	3D1	9
8			BM	1D3	EMB	1G7	EMB		M				EMB	3D1			EMB	3F1			EMB	a			8
7							EBM	1B4	B	3B6													B		7
6					EMB	1G8	EMB		M	3F2													B		6
5	BM	1B5					EMB	3G2	B	1G9	EMB	3A6			EMB				EMB	1F3			B		5
4	BM	1D1			EBM		EBM		M	1C5	EMB	1G9			EMB				EMB	1F4			M	3C5	4
3	BM	1E2					EBM		M	4H1	EBM	3B2			EBM	1C4			EBM	3G5			BM	3C4	3
2	BM	3B2			M	1H5	EBM	3H1	M	3F9	EBM	1G2			EBM				EBM	3F9			M	3C3	2
1	BM	1G4					EBM		M	3C2	M	1D4			M	3G1			M				M	3C2	1
COIL		3C6		3B2		1D2		3G2		1E4		1D4		3C1		1B2		3F2		1F4		1F6		1B3	COIL
																					a	1D4 3D8			

RELAY

DESIG	S1		S2		S3		S4		S5		ST														DESIG
CODE	AJ52		AJ52		AJ52		AJ52		AJ52		AJ15														CODE
OPTION																									OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12											EBM														12
11											EBM														11
10	M	3F4	M	3F5	M	3F6	M	3F7	M	1H5	EBM														10
9											EBM	IC5													9
8	EMB	b	EMB	b	EMB	b	EMB	b	EMB	b	EMB														8
7											EBM														7
6	EMB	1B8	EMB	1C8	EMB	1D8	EMB	1E8	EMB	1F8	EMB	3F2													6
5											EMB														5
4	EBM	a	EBM	a	EBM	a	EBM	a	EBM	a	EBM	1F3													4
3											EBM														3
2	M	1H2	M	1H2	M	1H2	M	1H3	M	1G9	EBM	3F9													2
1											EBM														1
COIL		2E1		2E3		2E5		2E7		2E9		1F3													COIL
	a	T 3F4 U 3F3 T 1G7	a	T 3F5 U 3F4 T 1G7	a	T 3F6 U 3F5 T 1G7	a	T 3F7 U 3F7 T 1G7	a	T 3F8 U 3F8 T 1G7															
	b	3E3 U 1G6	b	3E4 U 1G6	b	3E5 U 1G6	b	3E6 U 1G6	b	3E8 U 1G6															

DRAWING ISSUE

1	RKU JKF KSJ	H1
2D	WPA SAK KFJ	H1 A PM
5B	TEF SAK GFH	
6B	FED PJS RHP	

D-66908-01-C1

DIAL CONFERENCE TRUNK CIRCUIT (2)

SD-66908-01-C1

BELL TELEPHONE LABORATORIES INCORPORATED

SIZE 6S

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CIRCUIT NOTES:

101.

DESIG	FUSE AMP	POTENTIAL	ONE PER
T—	1 1/3	-48	APP FIG 1
T—	1 1/3	GROUND	APP FIG 1

102.

FEATURE OR OPTION	PROVIDE		
	APP FIG	APP OR WRG	QUANTITY
CONFERENCE CKT	1	X	1 PER PBX
CONFERENCE RELEASE BY ATTENDANT		Z	
ATTENDANT LOCKOUT NOT REQUIRED		Y	

103.

NETWORK VALUES		
NETWORK NO.	RESISTANCE IN OHMS	CAPACITANCE IN UF

CIRCUIT NOTES: (CONT)

104. 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	
5B	V OR W	W		V		W	
6B	T OR U	U		T		U	

105. LEADS DESIGNATED (A) ARE ASSOCIATED WITH LOCKING TYPE CONTROL KEY (CONF) AND ASSOCIATED TL & SL LAMPS ON CDLS POSITION. LEADS DESIGNATED (B) ARE ASSOCIATED WITH NON - LOCKING TYPE SIGNAL KEY (ST/RC) AND ASSOCIATED TL & SL LAMPS ON CDLS POSITION.

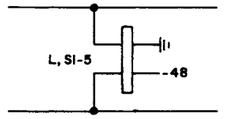
EQUIPMENT NOTES

201. USE OF ATTENDANT CONTROLLED CONFERENCE CIRCUIT REQUIRES AVAILABILITY OF TWO (2) KEYS ON THE CDLS POSITION. LEADS DESIGNATED (A) ARE ASSOCIATED WITH LOCKING-TYPE CONTROL KEY (CONF) & ASSOCIATED TL & SL LAMPS. LEADS DESIGNATED (B) ARE ASSOCIATED WITH NON-LOCKING TYPE SIGNAL KEY (ST/RC) & ASSOCIATED TL & SL LAMPS.

202. ANY PICKUP KEY MAY BE CONVERTED TO SIGNAL KEY OPERATION BY REMOVING SCREW OETAIL P-10E857 FROM THE PLUNGER.

203. (ST/RC) SIGNAL KEY MUST BE IN THE SAME KEY STRIP OR THE KEY STRIP TO THE RIGHT OF THE STRIP HAVING THE (CONF) KEY.

TRANSMISSION TEST REQUIREMENTS
(1000 CYCLE LOSS BETWEEN 600 OHM LINES)



MAX ALLOWABLE CKT LOSS (DB)
0.2

ALLOWABLE INDIVIDUAL APPARATUS LOSSES (DB)

APPARATUS	DESIG	CODE	MAX. LOSS	MIN. LOSS	REMARKS
RELAYS	L,S1-S5	AJ 52	0.2		

WORKING LIMITS

MAX EXTERNAL LOOP RESISTANCE	1500
MIN INSULATION RESISTANCE	10,000

DRAWING ISSUE		
1	BD LFF KFJ	HW
2D	WPA SAK KFJ	HW
3D	- SAK GFH	
5B	TEF SAK GFH	PM
6B	FED MJS	

6

DIAL CONFERENCE TRUNK CIRCUIT (2) SD-66908-01-01

BELL TELEPHONE LABORATORIES INCORPORATED 6S

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DRAWING ISSUE
1 BB UHF KFJ HW
5B TEF SAK GFH

INFORMATION NOTES

201. CHARTS A-D SHOW THE CONTROL AND SWITCHING ACTIONS INVOLVED IN SETTING UP A CONFERENCE.

CHART A
ORIGINATING A CONFERENCE AND CALLING FIRST CONFEREE STATION

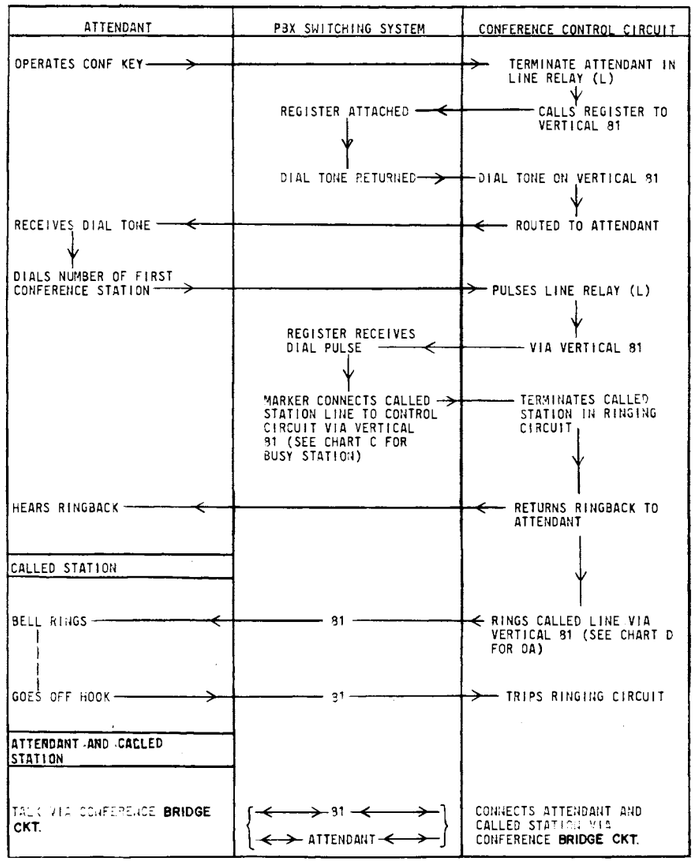


CHART B
ATTENDANT CALLS SECOND CONFEREE STATION

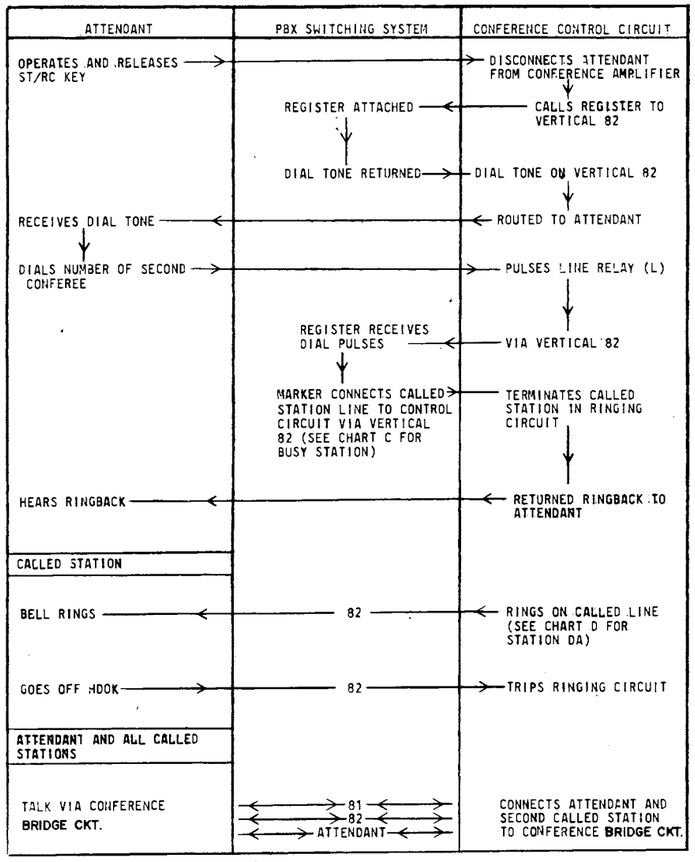
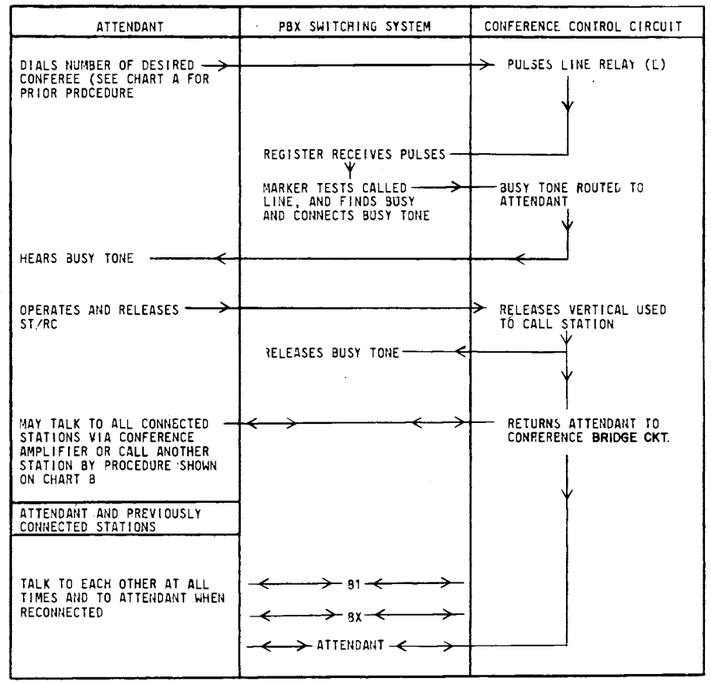


CHART C
CALLED STATION IS BUSY



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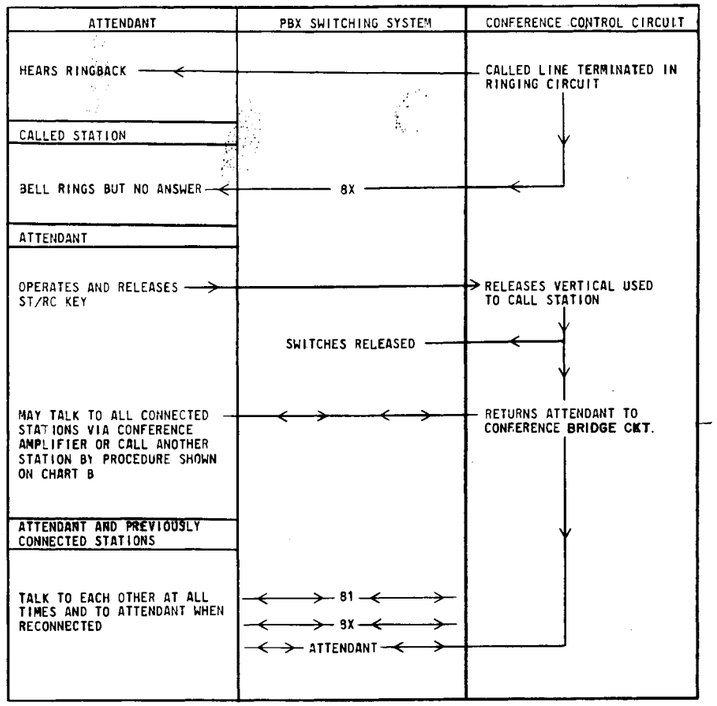
INFORMATION NOTES (CONT)

301.

CHART D
CALLED STATION DOES NOT ANSWER



302. THE ASSIGNMENT OF TRUNK TERMINALS TO THE UNIVERSAL LINE CIRCUITS USED FOR THIS CONFERENCE CIRCUIT IS PER CUSTOMER SPECIFICATIONS AND NEED FOLLOW NO NUMERICAL ORDER. HOWEVER, WHEN TRUNK TERMINALS ARE NOT SPECIFIED, TERMINALS 85 THROUGH 89, USED CONSECUTIVELY, SHALL BE GIVEN PREFERENCE WITH TERMINAL 89 ASSIGNED AS THE DIAL BACK CODE FOR A CENTRAL OFFICE TRUNK CONNECTION.

CROSS - CONNECTING INFORMATION AND NOTES

401. METHOD OF CONNECTION TO CDLS POSITION CIRCUIT SD-65757-01
(SEE NOTES 201-203)

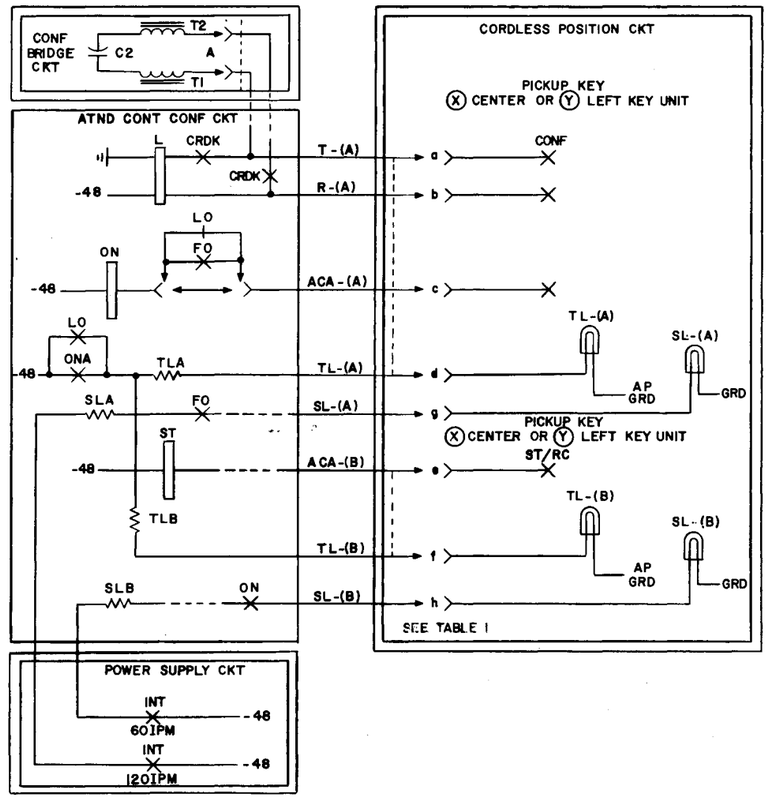


TABLE I

OPTION	PU KEY NO	AMPHENOL PLUG (X)P3 OR (Y)P4 (610 TYPE) (X)P2 OR (Y)P3 (612 TYPE) a	b	c	d	e	f	58A LP STRIP g	h	TERM LOCATION LEAD DESTG
(X) CENTER KEY UNIT	4	1	26	27	13	27	13	1	1	TERM NO
	5	3	28	29	14	29	14	2	2	
	6	5	30	31	15	31	15	3	3	
	7	7	32	33	16	33	16	4	4	
	8	9	34	35	17	35	17	5	5	
	9	11	36	37	18	37	18	6	6	
(Y) LEFT KEY UNIT	10	1	26	27	13	27	13	1	1	
	11	3	28	29	14	29	14	2	2	
	12	5	30	31	15	31	15	3	3	
	13	7	32	33	16	33	16	4	4	
	14	9	34	35	17	35	17	5	5	
	15	11	36	37	18	37	18	6	6	

DRAWING ISSUE
1 RWF JFF KFJ HW
2D WPA SAK KFJ TEF SAK GFH HW 4
5B

DIAL CONFERENCE TRUNK CIRCUIT (2)
SD-66908-01-D3
BELL TELEPHONE LABORATORIES INCORPORATED
DWG SIZE 6S
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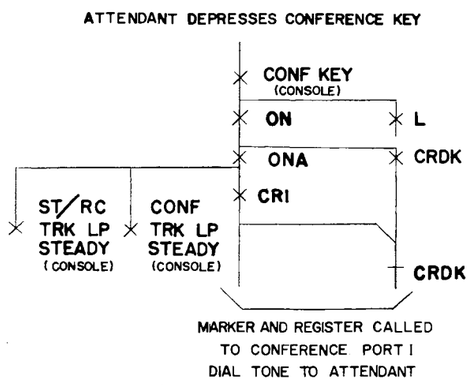
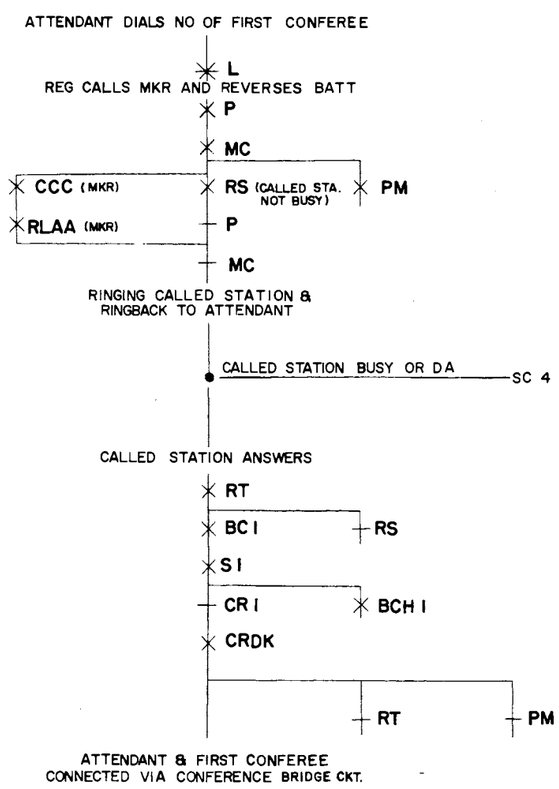
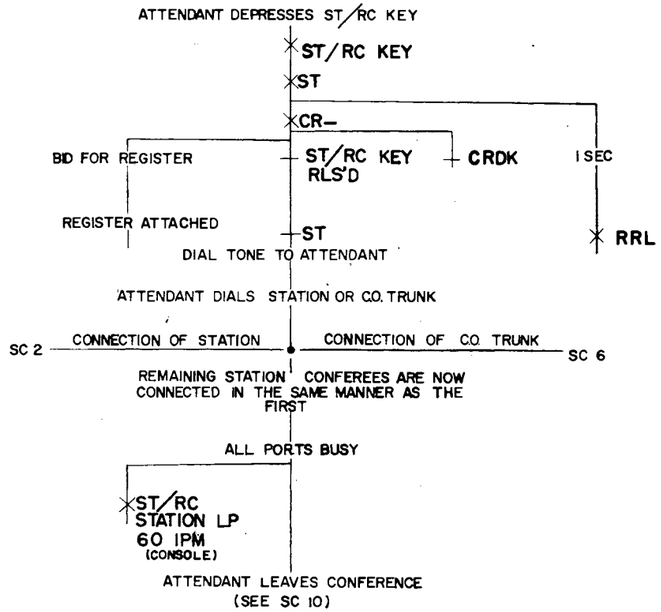
SC 1
ATTENDANT SEIZES CONFERENCE CIRCUIT



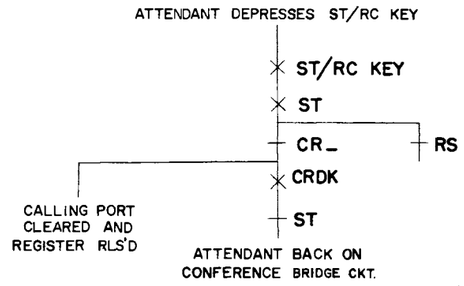
SC 2
ATTENDANT CONNECTS FIRST CONFEREE



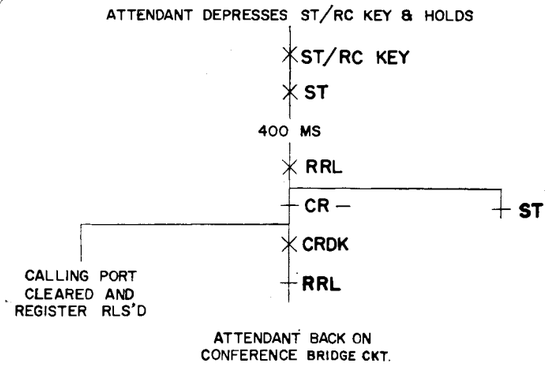
SC 3
ATTENDANT CONNECTS REMAINING PARTIES TO CONFERENCE



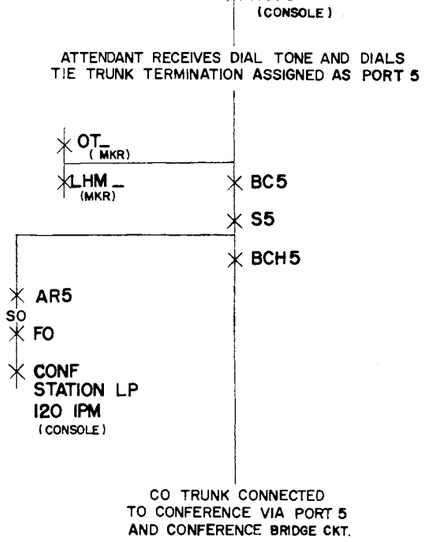
SC 4
ATTENDANT RETURNS TO CONFERENCE WHEN CALLED STATION IS BUSY OR DA



SC 5
ATTENDANT RETURNS TO CONFERENCE AFTER DIAL TONE OR PARTIAL DIAL



SC 6
C. O. TRUNK PARTY ADDED TO CONFERENCE



DRAWING ISSUE
1 QQ VFF KFJ
5B TEF SAK GFH

SD-66908-01-E1

5

DIAL CONFERENCE TRUNK CIRCUIT (2)

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SC 7
DIAL REPEATING TIE TRUNK ADDED TO CONFERENCE

REGISTER ATTACHED

L (ATTENDANT DIALS TIE TRK. TERMINATION)

REGISTER CALLS MARKER AND REVERSES BATTERY

MARKER ATTACHED

P

MC

CCC (MKR)

PM

D8

D8M

RLAA (MKR)

P (RELEASES WHEN MARKER & REGISTER FUNCTIONS ARE COMPLETED)

MC

CCC (MKR)

ATTENDANT CONNECTED TO TIE TRUNK VIA A CONFERENCE PORT

ATTENDANT DIALS NO. OF DISTANT PBX STATION

DISTANT STATION BUSY OR D A — SC 4

RING BACK OR BUSY TONE TO ATTENDANT

DISTANT STATION ANSWERS TIE TRUNK REVERSES BATTERY

P

RT

BC_ — D8

S_

CR_ — BCH_

CRDK — P

RT — PM

D8

ATTENDANT & TIE TRUNK STATION CONNECTED VIA CONFERENCE BRIDGE CKT.

SC 8
ATTENDANT RECALL

ANY STATION DEPRESSES SW HOOK

S_

AR_

SO

FO

S_

CONF STATION LP 120 IPM (CONSOLE)

ATTENDANT DEPRESSES CONFERENCE KEY

CONF KEY (CONSOLE)

ON — L

ONA

CRDK

AR

FO

CONF STATION LP (CONSOLE)

ATTENDANT CONNECTED TO CONFERENCE BRIDGE CKT.

AFTER RECEIVING INFORMATION ATTENDANT ADDS NEW PARTY IN SAME MANNER AS SC 3

SC 9
ATTENDANT DISCONNECT FROM CONFERENCE BRIDGE CKT.
MINIMUM OF TWO PARTIES IN CONFERENCE

ATTENDANT DEPRESSES ATTENDANT RELEASE KEY

ATTENDANT RLS KEY (CONSOLE)

CONF KEY (CONSOLE) — L — ON — ONA

ALL PORTS BUSY

CRDK

FO

LO

ST/RC STATION LP (CONSOLE)

ATTENDANT OFF CONFERENCE
LOCKED OUT IF (X) OPTION PROVIDED

SC 10
CONFEREE STATION DISCONNECTS
MINIMUM OF TWO PARTIES REMAINING IN CONFERENCE

STATION GOES ON HOOK (LOOP OPEN)

S_

SR

BCH_

OT_ (MKR) — SR

BC_

OT_ (MKR)

HM_ (MKR) (LINK)

CONFERENCE PORT CLEAR FOR REUSE

SC 11
NEXT TO LAST CONFEREE STATION DISCONNECTS
WITH ATTENDANT DISCONNECTED
(ASSUME SW VERTICALS 81 & 82 IN USE)

STATION 81 GOES ON HOOK

SI

SR

BCH 1

SR

OT 21 (MKR)

BC 1

OT 21 (MKR) — LO

HM 81 (MKR) (LINK) — SR — CONF TRK LP (CONSOLE) — ST/RC TRK LP (CONSOLE)

BC 2

HM 82 (MKR) (LINK) — SR

S2

SR

OT 22 (MKR)

BCH 2

OT 22 (MKR)

CONFERENCE CIRCUIT CLEAR FOR REUSE

SC 12
RELEASE CONFERENCE (Z) OPTION

ATTENDANT DEPRESSES CONFERENCE KEY

CONF KEY (CONSOLE)

ST/RC KEY (CONSOLE) HELD DOWN

5 – 6 SECONDS

RC

LO (IF OPERATED)

ALL CONFEREES DISCONNECTED.
DIAL TONE TO ATTENDANT
WHEN CIRCUIT RELEASE IS COMPLETED

DRAWING ISSUE 1 — 5B

5

DIAL CONFERENCE TRUNK CIRCUIT (2)

SD-66908-01-E2

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6S

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SD-66908-01 2 PAGES

CIRCUIT REQUIREMENTS

NO. 756 ATTENDANT CONTROLLED CONFERENCE

DRAWING ISSUE: 1 SAK JFF KFJ; 2D MPA SAK KFJ

APPARATUS DESIG	APPARATUS CODE	APPARATUS OPT.	APPARATUS FIG.	MECH REQT BSP FIG.	MECH REQT CONT PRES	MECH REQT ARM. TRVL	CIRCUIT PREPARATION BLOCK OR INSULATE	CIRCUIT PREPARATION TEST CLIP DATA CONN BAT.	CIRCUIT PREPARATION TEST CLIP DATA CONN GRD	TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT TEST WDG	TEST FOR	AFTER SOAK MA	TEST MA	READJ MA	REMARKS
RELAYS																	
AR1	1/2AK4		1	202			(FO)NO		IL(AR1)	G			O		11.9	11.3	MOUNTED WITH AR2
AR2	1/2AK4		1	202			(FO)NO		IU(AR2)	G			O		11.9	11.3	MOUNTED WITH AR1
AR3	1/2AK4		1	202			(FO)NO		IL(AR3)	G			O		11.9	11.3	MOUNTED WITH AR4
AR4	1/2AK4		1	202			(FO)NO		IU(AR4)	G			O		11.9	11.3	MOUNTED WITH AR3
AR5	1/2AK4		1	202			(FO)NO		IL(AR5)	G			O		11.9	11.3	MOUNTED WITH FO
BCI-4	AG20		1	262B			10(BCI-4)		U(BCI-4)	G			O	20	11.2	10.2	
									U(BCI-4)	G			H	20	2.0	1.9	
									U(BCI-4)	G			R	20	0.9	1.1	
BC5	AG24		1	262B			(CO)O 11(BC5) 10(BC5) 8(BC5)		U(BC5)	G			O	20	11.2	10.2	
									U(BC5)	G			H	20	2.0	1.9	
									U(BC5)	G			R	20	0.9	1.1	
BCHI-5	AG24		1	18B			6(BCHI-5) 8(BCH5) (CO)O		U(BCHI-5)	G			O	36	14.3	13.0	BLOCK (CO)O FOR BCH5 ONLY
									U(BCHI-5)	G			H	36	1.6	1.5	
									U(BCHI-5)	G			R	36	0.7	1.0	
CO	1/2AK35		1	202			5(CO)		IL(CO)	G			O		13.0	11.8	MOUNTED WITH D8
									IL(CO)	G			H	48	4.0	4.2	
CR1	1/2AK4		1	202					IL(CR1)	G			O		11.9	13.1	MOUNTED WITH CR2
CR2	1/2AK4		1	202					IU(CR2)	G			O		11.9	13.1	MOUNTED WITH CR1
CR3	1/2AK4		1	202					IL(CR3)	G			O		11.9	13.1	MOUNTED WITH CR4
CR4	1/2AK4		1	202					IU(CR4)	G			O		11.9	11.3	MOUNTED WITH CR3
CR5	1/2AK4		1	202			3(CR5)		IL(CR5)	G			O		12.4	11.3	MOUNTED WITH PM
CRDK	1/2AK6		1	2					IL(CRDK)	G			O		29.0	27.5	MOUNTED WITH LO
D8	1/2AK35		1	202			(D8M)NO		IL(D8)	G			O		31.5	30	MOUNTED WITH CO
D8M	1/2AK4		1	202					IU(D8M)	G			O		11.9	11.3	MOUNTED WITH ONA
FO	1/2AK4		1	202					IU(FO)	G			O		11.9	11.3	MOUNTED WITH AR5
L	AJ52		1	303				IL(L)	2U(L)	M		P/S	O		13.2	12.6	
								IL(L)	2U(L)	M		P/S	R		3.1	3.3	
LO	1/2AK6		1	2					IU(LO)	G			O		29.0	27.5	MOUNTED WITH CRDK
MC	AJ15		1	249			2(MC) (PM)NO		IU(MC)	G			O		44.5	40.5	

PAGE 1

PBX SYSTEMS NO. 756A DIAL CONFERENCE TRUNK CIRCUIT	SD-66908-01-FI
BELL TELEPHONE LABORATORIES INCORPORATED	PRINTED IN U. S. A.

E-7488 14-68

SD-66908-01-FI

22

CIRCUIT REQUIREMENTS

DRAWING ISSUE: 1 SAK JFF KFJ HM; 2D MPA SAK KFJ H

APPARATUS DESIG	APPARATUS CODE	APPARATUS OPT.	APPARATUS FIG.	MECH REQT BSP FIG.	MECH REQT CONT PRES	MECH REQT ARM. TRVL	CIRCUIT PREPARATION BLOCK OR INSULATE	CIRCUIT PREPARATION TEST CLIP DATA CONN BAT.	CIRCUIT PREPARATION TEST CLIP DATA CONN GRD	TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT TEST WDG	TEST FOR	AFTER SOAK MA	TEST MA	READJ MA	REMARKS
ON	AF33		1	16			(CRDK)NO (CRI)NO (ONA)NO		U(ON)	G			O		13.4	12.8	
ONA	1/2AK4		1	202					1L(ONA)	G			O		11.9	11.3	MOUNTED WITH D8M
P	1/2AK30		1	202			(MC)NO	1L(P)	2L(P)	B/G			O		23	22	MOUNTED WITH RS
PM	1/2AK4		1	202					1U(PM)	G			O		11.9	11.3	MOUNTED WITH CR5
RC	1/2AK4		1	202			(LO)O		1L(RC)	G	1		O		11.9	11.3	
RRL	1/2AK4		1	202					1U(RRL)	G			O		11.9	11.3	
RS	1/2AK30		1	202					1U(RS)	G			O		23	22	MOUNTED WITH P
RT	AJ58		1	308					1U(RT)	G		P	O		28	26.5	EM CONTACTS ONLY NEED MAKE
									1U(RT)	G		P	O		29.5	28	
									1U(RT)	G		P	NO		20	21.5	
									2U(RT)	G		S	O		19	18	
SI-5	AJ52		1	303			(BCHI-5)NO	1L(SI-5)	2U(SI-5)	M		P/S	O		13.2	12.6	BLOCK (AR5) NO FOR S5 ONLY
							(AR5) NO	1L(SI-5)	2U(SI-5)	M		P/S	R		3.1	3.3	
ST	AJ15		1	249			(ST) NO		1U(MC)	G			O		42.5	40.5	

TEST NOTES:

1. WHEN PROVIDED PER OPTION Z REMOVE THE RELAY DELAY TIMER ED-66715 FROM CONNECTOR "RD" DURING TEST.

PAGE 2

2

PBX SYSTEMS NO. 756A DIAL CONFERENCE TRUNK CIRCUIT	2	SD-66908-01-FI
BELL TELEPHONE LABORATORIES INCORPORATED	DWG SIZE 6S	PRINTED IN U. S. A.

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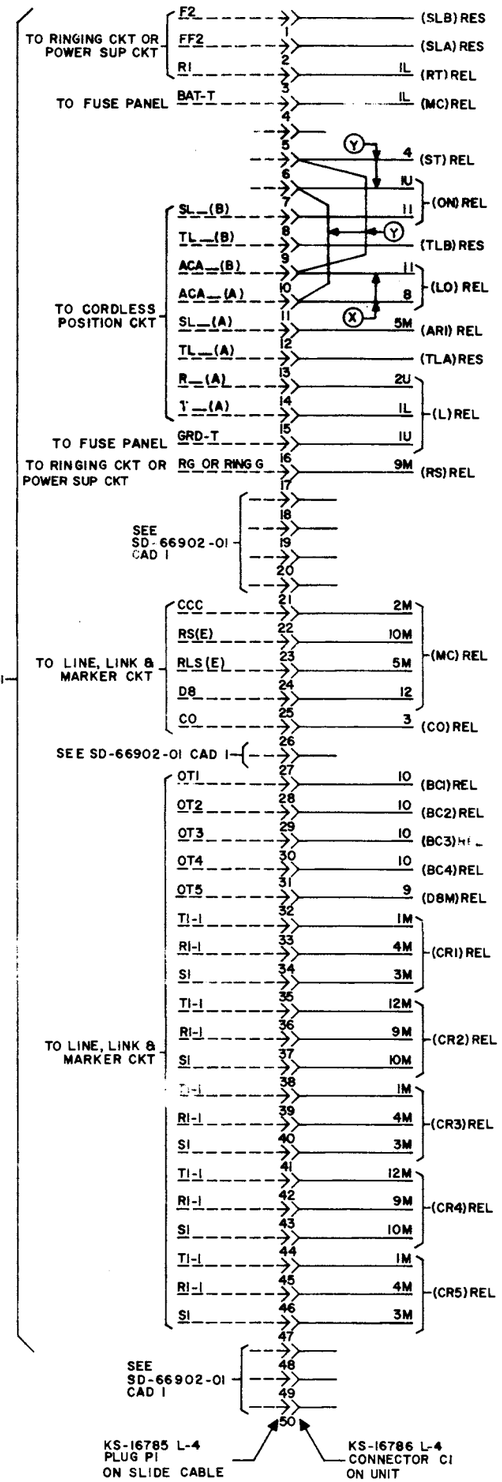
CAD 1
(FOR APP FIG. 1)



DRAWING ISSUE	
SUPER-SEDES 155 1	
2D	R&U W.F. W.F.I. NH
3D	- SAK GFH

3

PBX SYSTEMS
NO. 756A
DIAL CONFERENCE
TRUNK CIRCUIT (2)

SD-66908-01-GI

BELL TELEPHONE LABORATORIES INCORPORATED

6S

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*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	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	SHEET NO.
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FS 1 TRUNK PREFERENCE CIRCUIT	B1	1	1	3	3																																															B1
FS 2 MARKER AND MAGNET CONTROL	B2	1	1	1	1																																														B2
PART OF FS 3 MULTI CO TRUNK CONNECTIONS	B3	1	1	1	4																																														B3
PART OF FS 3 MULTI CO TRUNK CONNECTIONS	B4	1	1	1	4																																														B4
PART OF FS 3 MULTI CO TRUNK CONNECTIONS	B5	1	1	1	4																																														B5
FS 4 LAMP BUZZER AND TONE CONTROL FS 5 LINK SWITCH CIRCUIT	B6	1	1	1	4																																														B6
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PART OF CAD 1	G2	1	2	2	2																																														G2
PART OF CAD 1	G3	1	2	2	2																																														G3
PART OF CAD 1	G4	1	2	2	2																																														G4
PART OF CAD 1 , CAD 2 , CAD 3	G5	1	2	3	3																																														G5

SUPPORTING INFORMATION

CATEGORY	NO.
EQUIPMENT DWGS	J58829AG
EQUIPMENT DESIGN REQ	J53929

SHEET INDEX NOTES

1. WHEN CHANGES ARE MADE IN THIS DRAWING, ONLY THOSE SHEETS AFFECTED WILL BE REISSUED.
2. 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.
3. THE ISSUE NUMBER ASSIGNED TO A CHANGED OR NEW SHEET WILL BE THE SAME ISSUE NUMBER AS THAT OF THE SHEET INDEX.
4. SHEETS THAT ARE NOT CHANGED WILL RETAIN THEIR EXISTING ISSUE NUMBER.
5. THE LAST ISSUE NUMBER OF THE SHEET INDEX IS RECOGNIZED AS THE LATEST ISSUE NUMBER OF THE DRAWING AS A WHOLE.

DWG ISSUE	CD ISSUE	DATE ISSUED	DRAWN	APPD
1	1	3-20-64	SAK JFF EC	GAM RAV KFJ HW
2	1 APP 1D	3-24-65	EWE SAK JFF	— RAV GFH
3D	1 APP 2D	1-31-67	BCM PJS UT	JJM LAH RHF
4B	1 APP 3B	5-10-68	FMC PJS RHO	SHA LAH LDJ

4

IJ07

PBX SYSTEMS
NO. 756A
STATION DIAL TRANSFER
CONTROLLER CIRCUIT
(CONT CKT)

AT & T CO.
STANDARD

(2) SD-66909-01-AI
17 SHEETS

BELL TELEPHONE LABORATORIES
INCORPORATED

DWG SIZE 6S

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SD-66909-01-AI

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APPARATUS INDEX

DESIG	LOCATION FS	APP FIG	EQPT
RELAYS			
ATB	1D4	1	
ARO-9	(3-5)F7	1	
GP	1E2	1	
RCO	2F5	1	
RC1	2G5	1	
SMC9	2D4	1	
STO-9	(3-5)B7	1	
T(0-9)A	1(B-H)1	1	
T(0-9)B	1(B-H)5	1	
TPO-9	1(B-H)7	1	
TRO-9	(3-5)A7	1	
TRT1	2B7	1	

DESIG	LOCATION FS	APP FIG	EQPT
SWITCH			
NO.9	SEE APP FIG.	1	

DESIG	LOCATION FS	APP FIG	EQPT
DIODES			
ARO-9	(3-5)F7	1	
GP	1E2	1	
RCO	2F6	1	
RC1	2G6	1	
TPO-9	1(B-H)7	1	

DESIG	LOCATION FS	APP FIG	EQPT
NETWORKS			
GP	1F2	1	
RCO	2F6	1	
RC1	2G6	1	
THM90	2B4	1	
THM91	2H4	1	

LEAD INDEX

DESIG	FS LOC
CDLS POS CKT	
BZO-9	6H3

DESIG	FS LOC
POWER SUPPLY CKT	
CR	6H0
FF	6H0

DESIG	FS LOC
STA DIAL TR TRK CKT NO. 1	
ATB	1C3
COO	5F1
GRD	5C1
HM	2B3
HMPB	1B4
MCC	5C1
ONG	5C1
PA	5G1
PB	5G1
PR	5A1
R	6F8
RA	5E1
RB	5D1
RLS	5F1
RLDT	5B1
S	6F8
ST	5B1
STB	5A1
T	6F8
TA	5D1
TB	5D1
TRU	2B3

DESIG	FS LOC
TWO-WAY CO TRK CKT (CONTINUED)	
RBA	(3-5)D8
RBS	(3-5)D8
RCA	(3-5)E9
RLR	(3-5)A8
RS	6E3
SG	(3-5)B8
SR	(3-5)E8
TL	6F1
TP-	1(B-G)7
TBA	(3-5)D9
TBS	(3-5)D9
TCA	(3-5)D8
TT	6E2
U	(3-5)B8

DESIG	FS LOC
LINE,LINK AND MARKER CKT	
RGB	2D9
RGC	2D9
SMTA	2C7
SMTB	2C7
SM(0-9)	2(B-F)1
TFA	2G1
TFB	2A1
TRA	2H1
TRB	2A1
TRT	2B7
TRO	2F6
TR1	2G6
TROA	2F6
TR1A	2G6
TR8	2B1
TR9	2G1

DESIG	FS LOC
STA DIAL TR TRK CKT NO. 0	
COO	3F1
GP	1B2
GRD	3C1
HM	2G3
HMPA	1B2
MCC	3C1
ONG	3C1
PA	3G1
PB	3G1
PR	3A1
R	6F8
RA	3E1
RB	3D1
RLS	3E1
RLDT	3B1
S	6F8
ST	3B1
STB	3A1
T	6F8
TA	3D1
TB	3D1
TRF	2B6
TRU	2G3
TR1A	2H5

DESIG	FS LOC
TWO-WAY CO TRK CKT	
AAA	(3-5)F8
AAB	(3-5)F8
CG	(3-5)C8
ER	6E1
FR	(3-5)E8
FL1	6G1
FL2	6G1
GR	6E0
LL	6G1
MC	(3-5)C9
MTR	(3-5)H9
PA	(3-5)G9
PB	(3-5)G9

CONTINUED

OPTION INDEX

APP OR WIRING	LOCATION
Z	3E6,3E7,3F7,4F7,4F8, 5F6,5F7,5F8,6F1,6G1 APP FIG 1
Y	3E6,3E7,4F7,5F7,6F1, 6G1, APP FIG 1

DRAWING ISSUE	
1	SAK WFF KFL NML
4B	PMC PJS LDV

4

STATION DIAL TRANSFER CONTROLLER CIRCUIT (2)

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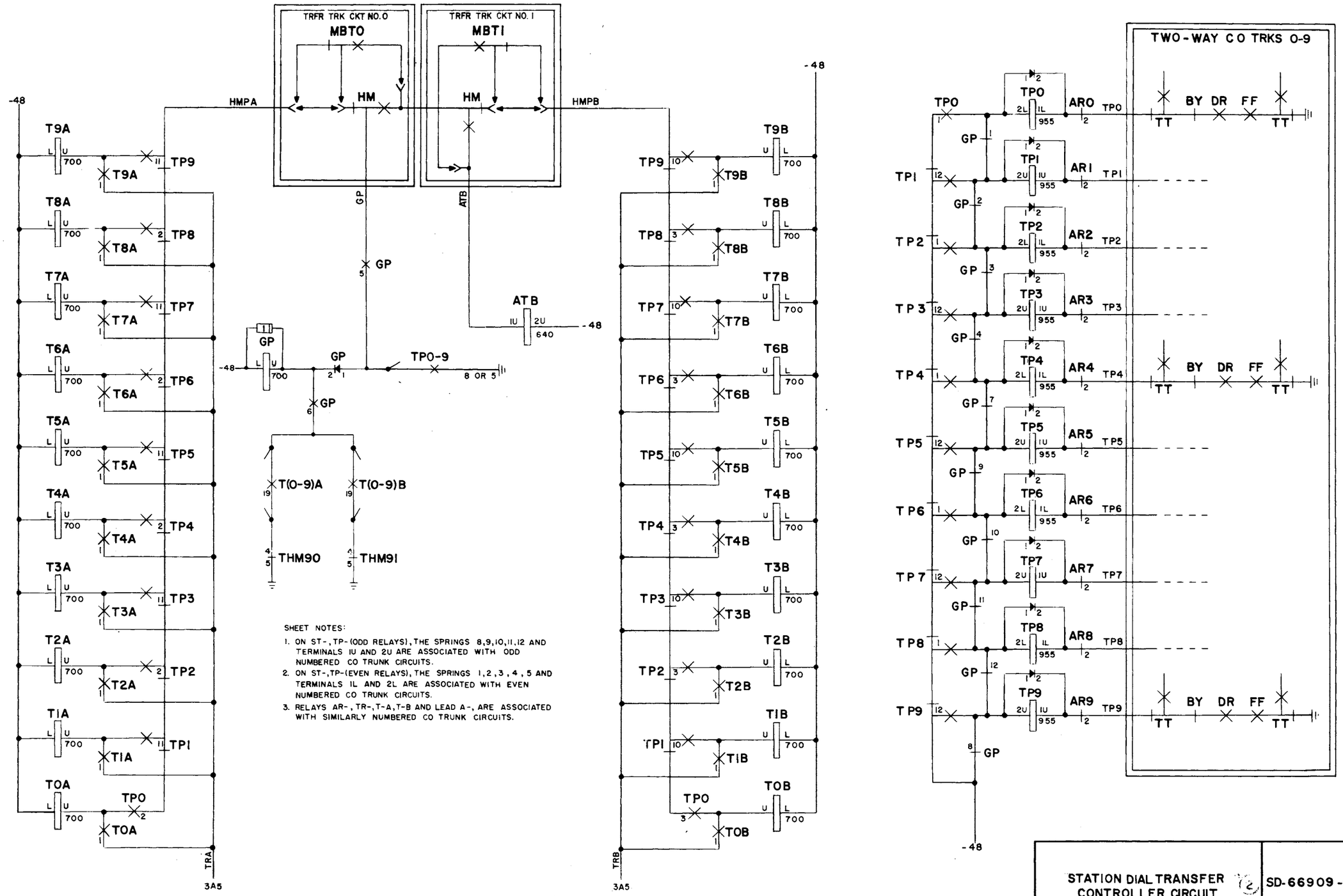
FS 1
TRUNK PREFERENCE CIRCUIT



SHEET NOTES:

1. ON ST-,TP-(ODD RELAYS),THE SPRINGS 8,9,10,11,12 AND TERMINALS 1U AND 2U ARE ASSOCIATED WITH ODD NUMBERED CO TRUNK CIRCUITS.
2. ON ST-,TP-(EVEN RELAYS), THE SPRINGS 1,2,3,4,5 AND TERMINALS 1L AND 2L ARE ASSOCIATED WITH EVEN NUMBERED CO TRUNK CIRCUITS.
3. RELAYS AR-,TR-,T-A,T-B AND LEAD A-, ARE ASSOCIATED WITH SIMILARLY NUMBERED CO TRUNK CIRCUITS.

DRAWING ISSUE

1	RJP WFF KFJ HW
3D	BCM PJS RHF

3

STATION DIAL TRANSFER CONTROLLER CIRCUIT

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BELL TELEPHONE LABORATORIES INCORPORATED

SIZE 6S

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FS 2
MARKER AND MAGNET CONTROL

DRAWING ISSUE 1 6AK JFF HM KFJ

LINE, LINK AND MARKER CKT

TO CO OR RD TIE TRK NO. 8 — TRMI — TRB — TFB — SMTA — SM — TRTI 8

U8 -48 2U 1U LUCA — TRB — TRTI 11

TRLB LEA LEB — LTS2-9 — SMO — SMC9 10 — SM90 RB RT 600 — -48

LEA LEB — TRLA — SM1 — SMC9 1 — SM91 RB RT 600 — -48

LEAA TRLB ZL WIL — LTS2 — SM2 — SMC9 2 — SM92 LT LB 600 — -48

LEBA — LTS3 — SM3 — SMC9 3 — SM93 LT LB 600 — -48

LEAA ZL ZIL — LEBA — LTS4 — SM4 — SMC9 4 — SM94 RB RT 600 — -48

LEAA ZL WIL — LEBA — LTS5 — SM5 — SMC9 5 — SM95 RB RT 600 — -48

LEAA ZL ZIL — LEBA — LTS6 — SM6 — SMC9 6 — SM96 LT LB 600 — -48

LEAA ZL ZIL — LEBA — LTS7 — SM7 — SMC9 7 — SM97 LT LB 600 — -48

LEAA ZL ZIL — LEBA — LTS8 — SM8 — SMC9 8 — SM98 RB RT 600 — -48

LTS9 — SM9 — SMC9 9 — SM99 RB RT 600 — -48

U9 -48 2L 1L LUCA — TR9 — TRTI 1

SMTA SMRBA — TFA — TRTI 4

TO CO OR RD TIE TRK NO. 9 — TRMI 12 — TRA

THM91 R L 900 -48 — 1

TRU HM

BA HM — HM 1U 2U -48 — HM BA — STC — SL STB

STA DIAL TRFR TRK CKT NO. 1

SMC9 -48 L U 700 TRTI 3

THM90 R L 900 -48 — 1

STA. DIAL TRFR TRK CKT NO. 0

HM BA — SL STB — STC — HM BA — HM 1U 2U -48

RCO -48 2U 1U 960 — STO-4 2 OR 11 — TRO

RCI -48 2L 1L 960 — ST5-9 2 OR 11 — TRI

STA. DIAL TRFR TRK CKTS 0,1

HM DLC RLS BA — TRIA

STA DIAL TRFR TRK CKTS 0,1

HM BA — TRF — 9 TRTI — TRTI U L 700 — TRT

LINE, LINK AND MARKER CKT

TRPI -48

SMC9 -48 12 — SMTA — RCTAA — SMTA

SMC9 -48 11 — SMTB — RCTBA — SMTB

TRCO RGA — TRCI RGB — RGB — 2 TRTI 8 RCO 5 RCI

RAOA — RGC — RAIA

REGISTER 0

AC -48 L U 700 SR DC

REGISTER 1

AC -48 L U 700 SR DC

LINE LINK AND MARKER CIRCUIT

RCO 2 TROA — TEAI 1 TRAO 5 TRO U L 700 -48 — THM05,06 — AC ATND TRK 1,2

RCI 2 TRIA — TEAI 3 TRAI 5 TRI U L 700 -48 — THM80 — AC ATND TRK 0

CO TRK & RD TIE TRK CKTS 0-4 — HM ACA

CDLS POS CKT — H SP

CO TRK & RD TIE TRK CKTS 5-9 — HM ACA

CDLS POS CKT — H SP

SHEET NOTES:

1. ON ST-, TP-(ODD RELAYS), THE SPRINGS 8,9,10,11,12 AND TERMINALS 1U AND 2U ARE ASSOCIATED WITH ODD NUMBERED CO TRUNK CIRCUITS.
2. ON ST-, TP-(EVEN RELAYS) THE SPRINGS 1,2,3,4,5 AND TERMINALS 1L AND 2L ARE ASSOCIATED WITH EVEN NUMBERED CO TRUNK CIRCUITS.
3. RELAYS AR-, TR-, T-A, T-B AND LEAD A-, ARE ASSOCIATED WITH SIMILARLY NUMBERED CO TRUNK CIRCUITS.

1

PBX SYSTEMS
NO. 756A
STATION DIAL TRANSFER (2) CONTROLLER CIRCUIT

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PART OF FS 3
MULTI CO. TRUNK CONNECTIONS

STATION DIAL TRANSFER TRUNK NO. 0

TWO-WAY C.O. TRUNK NO. 0

DRAWING ISSUE
1 RKA JFF KFJ HM
48 PMC PJS LDJ

SHEET NOTES:

1. ON ST-, TP- (ODD RELAYS), THE SPRINGS 8,9,10,11,12 & TERMINALS 1U AND 2U ARE ASSOCIATED WITH ODD NUMBERED CO TRUNK CIRCUITS.
2. ON ST-, TP- (EVEN RELAYS), THE SPRINGS 1,2,3,4,5, & TERMINALS 1L AND 2L ARE ASSOCIATED WITH EVEN NUMBERED CO TRUNK CIRCUITS.
3. RELAYS AR-, TR-, T-A, T-B AND LEAD A-, ARE ASSOCIATED WITH SIMILARLY NUMBERED CO TRUNK CIRCUITS.

4A3

STATION DIAL TRANSFER CONTROLLER CIRCUIT

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PART OF FS 3
MULTI C.O. TRUNK CONNECTIONS

SHEET NOTES:

1. ON ST-, TP- (ODD RELAYS), THE SPRINGS 8,9,10,11,12, & TERMINALS 1U AND 2U ARE ASSOCIATED WITH ODD NUMBERED CO TRUNK CIRCUITS.
2. ON ST-, TP- (EVEN RELAYS), THE SPRINGS 1,2,3,4,5,& TERMINALS 1L AND 2L ARE ASSOCIATED WITH EVEN NUMBERED CO TRUNK CIRCUITS.
3. RELAYS AR-, TR-, T-A, T-B AND LEAD A- ARE ASSOCIATED WITH SIMILARLY NUMBERED CO TRUNK CIRCUITS.

3H4

2B 3B 4B 5B 6B 7B 8B 9B 10B 11B 12B 13B 14B 17B 18B 18A 17A 14A 13A 12A 11A 10A 9A 8A 7A 6A 5A 4A 3A 2A

5A2

TWO-WAY CO TRUNK

T-A / T-B 2 — TR- (U / L) 700 -48

T-A / T-B 3 — RLR — RS — SR

T-A / T-B 4 — AR- 8 — 1U OR 1L — ST- (2U OR 2L) 960 -48 — MARKER: HM, TRU-, LUC-, U8,9 -48

T-A / T-B 5 — U — ST- 9 OR 4

T-A / T-B 6 — SG — SI, SR, RT, RT -48

T-A / T-B 7 — CG — TR- 9 — AC, HM -48

T-A / T-B 8 — MC — ST- 8 OR 5 — P, TT, SR, MC -48

T-A / T-B 9 — TBS — TR- 1 — TO LINE LINK AND MARKER CKT — BY

TBA

T-A / T-B 10 — RBS — 6E1 4 — TR- 3 — AC

RBA — HI

T-A / T-B 11 — TCA — TO CENTRAL OFFICE

T-A / T-B 12 — RCA — MARKER: BTT, COS-

SR — MC

T-A / T-B 13 — FR — AR- 10 — TR- 4 — AR- 11 — FF -48

ATB 12

T-A / T-B 14 — 9 OR 4 — TP- — AR- (U / L) 700 -48 — SR

AR- 6 — FF

AAB — AR- 2 1 — ST- 12 OR 1

T-A 15 / T-B 15 — AAA — AC

T-A / T-B 17 — PA — TR- 11 — RT, ST — HD — AC, HM, RS -48

PB

T-A / T-B 18 — ST- 10 OR 3 — MTR — MARKER: TRI, TEA — HM -48

DRAWING ISSUE

1	RKU WFF KFJ HW
48	PMC PJS LDJ

4

STATION DIAL TRANSFER CONTROLLER CIRCUIT (2) SD-66909-01 B4

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PART OF FS 3
MULTI CO TRUNK CONNECTIONS

STATION DIAL TRANSFER TRUNK NO. 1

TWO-WAY CO TRUNK NO. 9

DRAWING ISSUE		
1	RKU	11-7-67
	KKJ	
48	PWC	
	PJS	
	LDJ	

4H3

STB CTZ RLS STB BB CA PR -48 PR

CB DC9A CTZ BB MCB TTA CA ST

RLDT CA RR -48 RLDT

TTA PA GRD

BB STB STC DLC DLBA ONG

MCB TTA MCB -48 DLB CB MCC

T TB MCB C PA P RB

TO LINE, LINK & MARKER CKT

R B 48 C MCB RB CTZ CTZ P TA RA

RLBY CA B -48 DLBA RLBY RLS

DCO DBO P TTF BB COO

PA PA PA TTA -48 PA PB

T9A 2 T9B 2 STB

T9A 3 T9B 3 RLR

T9A 4 T9B 4 U

T9A 5 T9B 5

T9A 6 T9B 6 SG

T9A 7 T9B 7 CG

T9A 8 T9B 8 MC

T9A 9 T9B 9 TBS

T9A 10 T9B 10 RBS

T9A 11 T9B 11 TCA

T9A 12 T9B 12 RCA

T9A 13 T9B 13 SR

T9A 14 T9B 14 FR

T9A 15 T9B 15 AAB

T9A 17 T9B 17 PA

T9A 18 T9B 18 PB

TR9 U L 700 -48

AR9 8 ST9 1U 2U 960 -48

ST9 9 TR9 9

ST9 8

TR9 1 TBA

6E1 A9 TR9 3

AR9 10 Z Z TR9 4

Y ATB 12 TP9 9

AR9 11 Z

AR9 U L 700 -48

AR9 6 AR9 2 1

ST9 12

ST9 MTR 10

MARKER MTR- LUC- U8,9 -48

HM

SI SR RT RT -48

AC HM -48

P TT SR MC -48

TO LINE LINK AND MARKER CKT BY

AC HI

TO CENTRAL OFFICE

MARKER BTT COS-

MC FF -48

SR FF

RT SR HD -48

AC HM RS

MARKER HM TEA TR1 -48

SHEET NOTES:

1. ON ST-, TP-(ODD RELAYS), THE SPRINGS 8,9,10,11,12, & TERMINALS 1U AND 2U ARE ASSOCIATED WITH ODD NUMBERED CO TRUNK CIRCUITS.
2. ON ST-, TP- (EVEN RELAYS), THE SPRINGS 1,2,3,4,5, & TERMINALS 1L AND 2L ARE ASSOCIATED WITH EVEN NUMBERED CO TRUNK CIRCUITS.
3. RELAYS AR-, TR-, T-A, T-B AND LEAD A- , ARE ASSOCIATED WITH SIMILARLY NUMBERED CO TRUNK CKTS.

STATION DIAL TRANSFER CONTROLLER CIRCUIT (2)

BELL TELEPHONE LABORATORIES INCORPORATED

DWG SIZE 6S

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4

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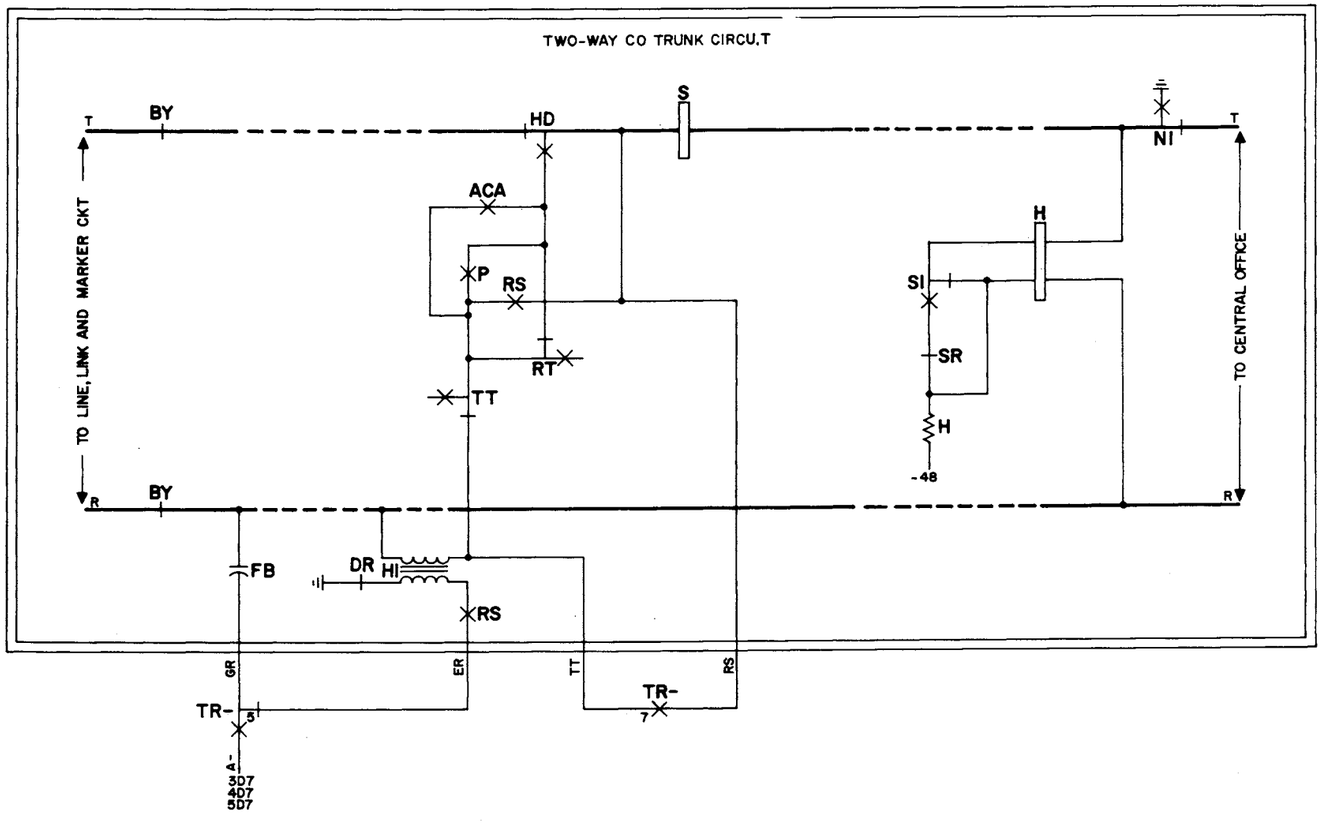
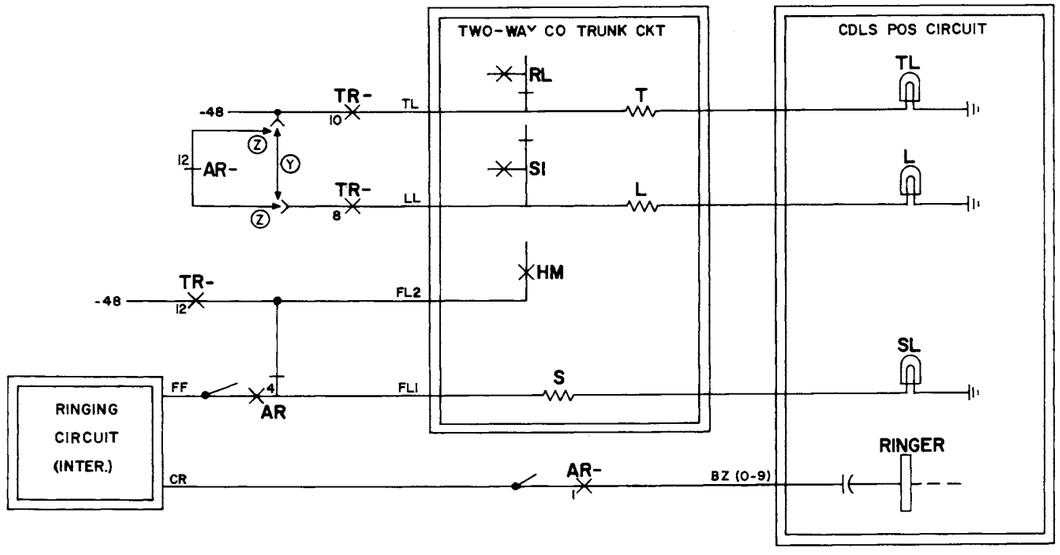
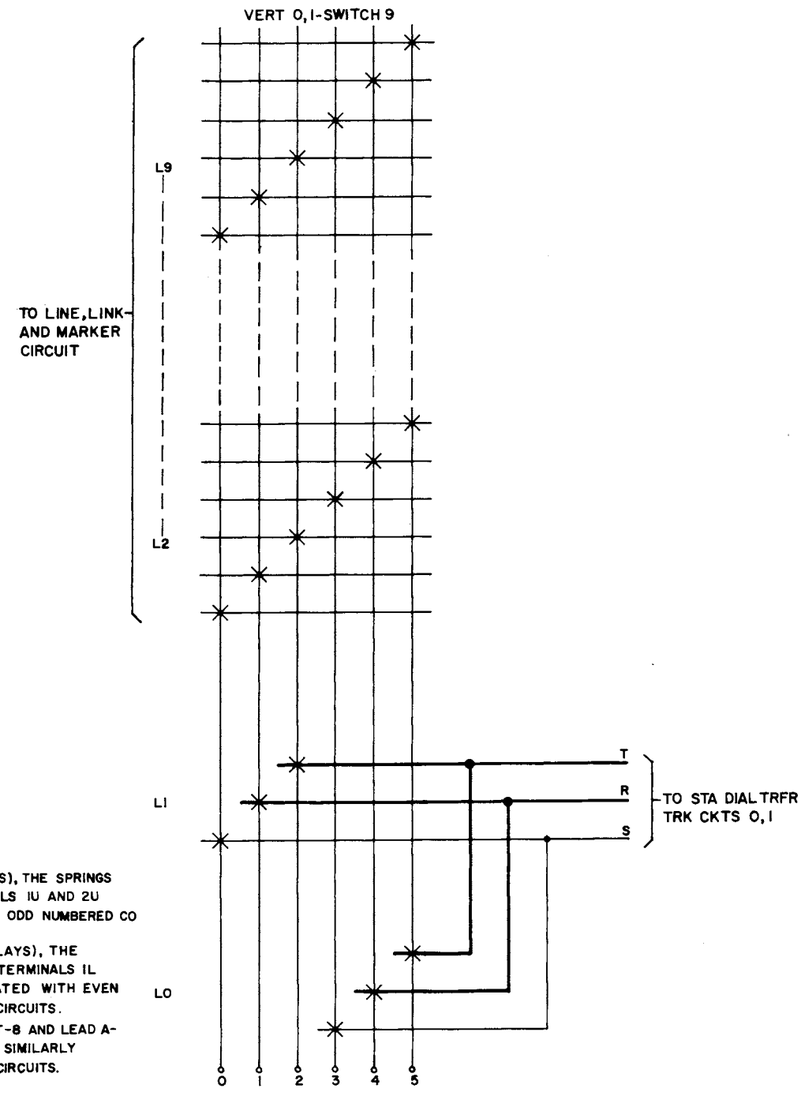
FS 4
LAMP BUZZER AND TONE CONTROL





SHEET NOTES:
1. ON ST-,TP-(ODD RELAYS), THE SPRINGS 8,9,10,11,12 & TERMINALS 1U AND 2U ARE ASSOCIATED WITH ODD NUMBERED CO TRUNK CIRCUITS.
2. ON ST-,TP-(EVEN RELAYS), THE SPRINGS 1,2,3,4,5 & TERMINALS 1L AND 2L ARE ASSOCIATED WITH EVEN NUMBERED CO TRUNK CIRCUITS.
3. RELAYS AR-,TR-,T-A,T-8 AND LEAD A- ARE ASSOCIATED WITH SIMILARLY NUMBERED CO TRUNK CIRCUITS.

FS 5
LINK SWITCH CIRCUIT



DRAWING ISSUE
1 RKU WFF KFJ
48 PMC PJS L.D.J

4

STATION DIAL TRANSFER CONTROLLER CIRCUIT (2)
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APP FIG. 1

RELAY

DESIG	ARO		ARI-8		AR9		ATB				GP		RCO		RCI		SMC9								DESIG
CODE	AF20		AF20		AF20		AK26				AJ15		AK11				AF24								CODE
OPTION																									OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	EMB	6F1	EMB	6F1	EMB	6F1	M	a			EBM	IG7	M				M	2C7							12
11	M	3F7	M	4F7	M	5F7	B				EBM	IF7					M	2C7							11
10	EBM	3E7	EBM	4E7	EBM	5E7	BM				EBM	IF7					M	2B2							10
9							B				EBM	IE7	EMB				M	2F2							9
8	EBM	3B7	EBM	4B7	EBM	5B7	M				EMB	IG7	B	2D9			M	2F2							8
7											EBM	ID7					M	2F2							7
6	EMB	3F7	EMB	4F7	EMB	5F7					EMB	ID2					M	2E2							6
5									M		EMB	IC3			B	2D9	M	2E2							5
4	EBM	6G1	EBM	6G1	EBM	6G1			BM		EBM	ID7			EMB		M	2D2							4
3									B		EBM	IC7					M	2D2							3
2	EBM	1B7	EBM	1(C-F)7	EBM	1G7			BM		EBM	IC7					M	2C2							2
1	M	6H2		6H2	M	6H2			M		EBM	IB7			M		M	2C2							1
COIL		3F7		4F7		5F7		ID4				IE2		2F5		2G5		2D4							COIL

a: 3E7, 4F7, 5F7

RELAY

DESIG	STO		STI, 3, 5, 7		ST2, 4, 6, 8		ST9				DESIG
CODE	AK4		AK4				AK4				CODE
OPTION											OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12			M	4G7			M	5G7			12
11			EBM	2(F,G)5			EBM	2G5			11
10			EBM	4H7			EBM	5H7			10
9			EMB	4C7			EMB	5C7			9
8			EMB	4D7			EMB	5D7			8
7											7
6											6
5	EMB	3C6			EMB	4D7					5
4	EMB	3B7			EMB	4C7					4
3	EBM	3H7			EBM	4H7					3
2	EBM	2F5			EBM	2(F,G)5					2
1	M	3F7			M	4G7					1
COIL		3B7		4B7		4B7		5B7			COIL

RELAY

DESIG	T0A		T0B		T-A		T-B		T9A		T9B		DESIG
CODE	AJ202		AJ202		AJ202		AJ202		AJ202		AJ202		CODE
OPTION													OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
24	M		M		M		M		M		M		24
23	M		M		M		M		M		M		23
22	M		M		M		M		M		M		22
21	M		M		M		M		M		M		21
20	M		M		M		M		M		M		20
19	M	1E2	M	1E2	M	1E2	M	1E2	M	1E2	M	1E2	19
18	M	3G6	M	3G6	M	4H6	M	4H6	M	5H6	M	5H6	18
17	M	3G6	M	3G6	M	4G6	M	4G6	M	5G6	M	5G6	17
16	M		M		M		M		M		M		16
15	M	3G6	M	3G7	M	4G6	M	4G7	M	5G6	M	5G7	15
14	M	3F6	M	3F6	M	4F6	M	4F6	M	5F6	M	5F6	14
13	M	3E6	M	3E6	M	4F6	M	4F6	M	5F6	M	5F6	13
12	M	3E6	M	3E6	M	4E6	M	4E6	M	5E6	M	5E6	12
11	M	3E6	M	3E6	M	4E6	M	4E6	M	5E6	M	5E6	11
10	M	3D6	M	3D6	M	4D6	M	4E6	M	5D6	M	5E6	10
9	M	3D6	M	3D6	M	4D6	M	4D6	M	5D6	M	5D6	9
8	M	3C6	M	3C6	M	4D6	M	4D6	M	5D6	M	5D6	8
7	M	3C6	M	3C6	M	4C6	M	4C6	M	5C6	M	5C6	7
6	M	3C6	M	3C6	M	4C6	M	4C6	M	5C6	M	5C6	6
5	M	3B6	M	3B6	M	4B6	M	4B7	M	5B6	M	5C6	5
4	M	3B6	M	3B6	M	4B6	M	4B6	M	5B6	M	5B6	4
3	M	3A6	M	3A6	M	4B6	M	4B6	M	5B6	M	5B6	3
2	M	3A6	M	3A6	M	4A6	M	4A6	M	5A6	M	5A6	2
1	M	1H1	M	1H5	M	1(C-G)1	M	1(C-G)5	M	1C1	M	1C5	1
COIL		1H0		1H5		1(C-G)0		1(C-G)5		1B0		1B5	COIL

DIODES

DESIG	LOC	CODE
ARO	3F7	446F
ARI-8	4F7	"
AR9	5F7	"
GP	ID2	"
RCO	2F6	"
RCI	2G6	"
TPO	IB7	"
TPI-8	I_7	"
TP9	IG7	"

NETWORKS

DESIG	LOC	CODE
GP	IF2	185A
THM90	2H4	"
THM91	2B4	"
RCO	2F5	"
RCI	2G5	"

RELAY

DESIG	TPO		TPI,3,5,7		TP2,4,6,8		TP9		TRO		TRI-8		TR9		TRTI										DESIG
CODE	AK7		AK7				AK7		AJ516		AJ516		AJ516		AF100										CODE
OPTION																									OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12			EBM	1(B-F)7			EBM	IG7	EBM	6G1	EBM	6G1	EBM	6G1	EMB										12
11			EBM	1(C-F)1			EBM	IB1	EMB	3G7	EMB	4G7	EMB	5G7	M	2B2									11
10			EBM	1(C-G)5			EBM	IB5	EBM	6F1	EBM	6F1	EBM	6F1	EBM										10
9			EM	4F7			EM	5F7	EMB	3C6	EMB	4C7	EMB	5C7	M	2B6									9
8			EM	1E3			EM	1C3	EBM	6G1	EBM	6G1	EBM	6G1	EBM	2B2									8
7									BM	6E2	BM	6E2	BM	6E2											7
6									EBM		EBM		EBM		EMB										6
5	EM	1G3			EM	1E3			BM	6E1	BM	6E1	BM	6E1											5
4	EM	3F7			EM	4F7			EBM	3E7	EBM	4F7	EBM	5F7	EBM	2G2									4
3	EBM	1H5			EBM	1(C-G)5			EMB	3D7	EMB	4D6	EMB	5D7	M	2D4									3
2	EBM	1H1			EBM	1(C-F)1			EBM		EBM		EBM		EBM	2D9									2
1	EBM	1B7			EBM	1(B-F)1			EMB	3D7	EMB	4D6	EMB	5D7	M	2G2									1
COIL		1B7		1(C-F)7		1(C-F)7		1G7		3A7		4A7		5A7		2B7									COIL

RELAY

DESIG																									DESIG
CODE																									CODE
OPTION																									OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	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

SWITCH
324AK

NO. 9 SWITCH

SEL MAG (RB OR LT / RT OR LB)	LOCATION	HOLD MAG (R / L)	LOCATION	HOLD O.N. CONT (2–1, 3; 4–1, 5)		
DESIG	COIL	DESIG	COIL	DESIG	CONT NO.	LOCATION
SM90	2B2	THM90	2H4	THM90	4,5	IF2
SM91	2C2	THM91	2B4	THM91	4,5	IF2
SM92	2C2					
SM93	2D2					
SM94	2D2					
SM95	2E2					
SM96	2E2					
SM97	2F2					
SM98	2F2					
SM99	2F2					

DRAWING ISSUE

1	WP… KF… KF…
4B	PM… PJS LD…

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4

STATION DIAL TRANSFER CONTROLLER CIRCUIT (2) SD-66909-01-CI

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CIRCUIT NOTES:

101.

DESIG	FUSE AMP	POTENTIAL	ONE PER
C	1-1/3	-48	CKT
C		GRD	CKT
BATTERY SYMBOL -48		VOLTAGE RANGE 45-52	

102.

FEATURE OR OPTION	PROVIDE		
	APP FIG.	APP OR WRG	QUANTITY
STATION DIAL TRANSFER CONTROLLER CIRCUIT	1		1 PER PBX

103.

NETWORK VALUES		
NETWORK NO.	RESISTANCE IN OHMS	CAPACITANCE IN UF
1	470	0.11
2	120	0.3

104

RECORD OF APP FIG. 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	
4B	Y,Z	Y		Z		Y	

EQUIPMENT NOTES:

201. EQUIPMENT OPTIONS SHALL BE FURNISHED AS FOLLOWS:

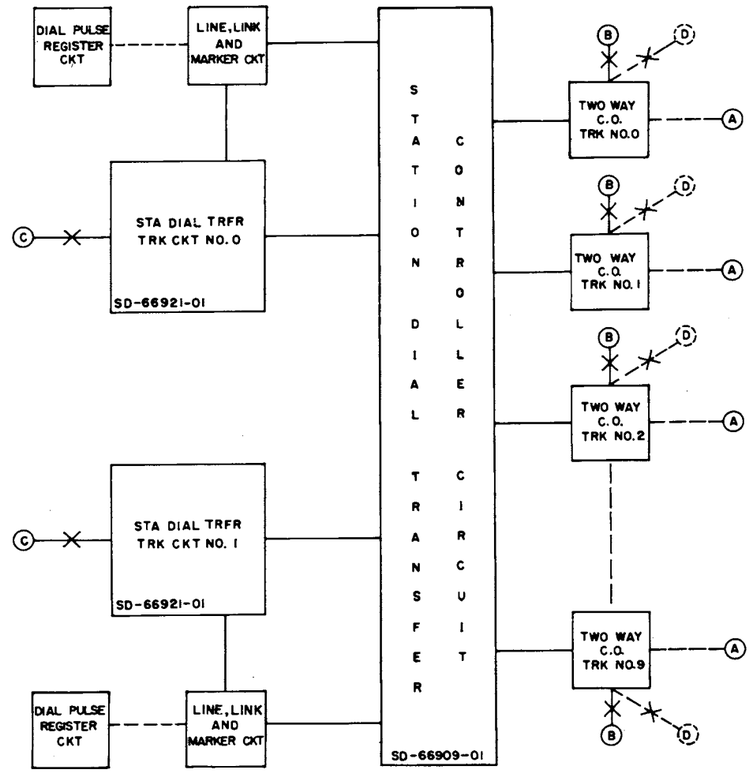
EB- WHEN CONNECTION TO MAKE BUSY & BUSY DISPLAY CKT IS REQUIRED PER ISSUE 3D.

INFO NOTES:

301. BLOCK DIAGRAM OF STATION DIAL TRANSFER CIRCUITS:

CHART A

Ⓐ: OUTSIDE PARTY Ⓑ, Ⓒ, Ⓓ: PBX STATIONS



302. UNLESS OTHERWISE SPECIFIED:
RESISTANCE VALUES ARE IN OHMS.
CAPACITANCE VALUES ARE IN MICROFARADS.
VALUES PRECEDED BY THE SYMBOL – (MINUS) ARE IN VOLTS.

303. PBX STATION CONNECTIONS MARKED X INDICATE CROSSBAR CONECTIONS.

DRAWING ISSUE	
1	DNF MFF KKJ HW
3D	FED PJS WNP
4B	PMC PJS LDJ

4

STATION DIAL TRANSFER CONTROLLER CIRCUIT (2)

SD-66909-01-DI

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SC 1

FIRST TRANSFER OF PARTY A
STATION B AND PARTY A CONNECTED
(PREVIOUS ACTION SHOWN IN SC 1-8
TWO WAY TRUNK CIRCUIT TO C.O.)
SEE NOTE 1

STATION B FLASHES

S
SR
END OF FLASH → SI
S
SI
C.O. TRK
DR

CONTROLLER ATTACHED

TPO
GP
TOA

TRF TRK CKT ATTACHED

TRO
STB
MCB
FF(C.O.)
B
TRF TRK
DR(C.O.)
TPO
BA
MKR ACTION
TRI (MKR)
TRPI (MKR)
TRTI
TRPI (MKR)
THM90
SMC9
HM (TRF TRK)
TRTI
SMC9
GP
SL (TRF TRK)

DIAL TONE

SC 3

STATION B OR C RECALLS THE ATTENDANT

STA B OR C DIALS 0

D(B,C)O (TRF TRK)

ARO

RLS (TRF TRK)

FF (C.O.)
DR (C.O.)
L (6 BUT KEY TEL SET) LAMP 120 IPM
SL (CDLS POS) LAMP 120 IPM
TRO
TOA
STB (TRF TRK)
B (TRF TRK)
BA (TRF TRK)
CONTINUOUS AUDIBLE SIG TO ATTENDANT
THM90
HM (TRF TRK)
TRF TRK & REG RELEASED

TO SC7

SC 4

SECOND TRANSER OF PARTY A
STATION C TRANSFERS TO STATION D
STATION C FLASHES

END OF FLASH
C
CA
W
C
CA
TRF TRK
CTZ
STO
HD (C.O.)
MKR
THM90,1
HM (C.O.)
L (REG)
SL (C.O.)

DIAL TONE

SC 5

STATION C DISPOSES OF DIAL TONE, PARTIAL DIAL, NO ANSWER, BUSY OR 120 IPM TONE

RELEASE DIAL TONE OR PARTIAL DIAL	RELEASE NO ANSWER	RELEASE BUSY	RELEASE 120 IPM TONE
END OF FLASH			
STO	RS (C.O. TRK)	RLBY (TRF TRK)	DC9A
C	C	C	C
CA (TRF TRK)	CA (TRF TRK)	CA (TRF TRK)	CA (TRF TRK)
RLDT (TRF TRK)	BB (TRF TRK)	C	BB
C	C	C	C
CA	DLB	CA	DLB
	CA		CA

DLBA (TRF TRK)

TLA (C.O.)
HM (C.O.)
THM (MKR)
B (TRF TRK)
BA
RT (C.O.)

REGISTER RELEASED
C.O. TRK CKT NORMAL
STATION C & PARTY A CONNECTED

SC 6

ALL TRANSFER TRUNKS BUSY
STATION B FLASHES

S
SI
END OF FLASH
FF
S
SI
DR
C.O.
HM (TRF, TRK 0)
HM (TRF, TRK 1)
TPO
L (6 BUT KEY TEL SET) LAMP 120 IPM
GP
ATB
ARO
TPO
ATB
GP
SL (CDLS POS) LAMP 120 IPM
CONTINUOUS AUDIBLE SIG

TO SC7

SC 7

ATTENDANT ANSWERS
PREVIOUS ACTION SHOWN IN SC 3, 6

PU (CDLS) KEY
ACA
AC
C.O. TRK
FF (C.O.)
ARO
DR (C.O.)
L (6 BUT KEY TEL SET) LAMP STEADY
AUDIBLE SIG SILENCED
SL (CDLS POS) LAMP STEADY

STATION B OR C, PARTY A
& ATTENDANT CONNECTED

SC 2

STATION B DISPOSES OF DIAL TONE, PARTIAL DIAL, NO ANSWER, BUSY OR 120 IPM TONE

RELEASE DIAL TONE OR PARTIAL DIAL	RELEASE NO ANSWER	RELEASE BUSY	RELEASE 120 IPM TONE
B	B	B	B
SL (TRF TRK)	RS (TRF TRK)	BY (TRF TRK)	DB9A (TRF TRK)
BA (TRF TRK)	BA (TRF TRK)	BA (TRF TRK)	BA (TRF TRK)

END OF FLASH

RLS
STB (TRF TRK)
TOA
TRO

TRF TRK CKT AND CONTROLLER CKT RELEASED
STATION B & PARTY A CONNECTED

SHEET NOTES:

1. SC1 ASSUMES AN ESTABLISHED TALKING CONNECTION BETWEEN PARTY A AND STATION B THROUGH THE C.O. TRK NO. 0, AND THAT TRF TRK CKT NO. 0 IS IDLE.

DRAWING ISSUE

1	PFD JFF KFJ HB
4B	PMC PJS LDJ

4

TATION DIAL TRANSFER CONTROLLER CIRCUIT

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CIRCUIT REQUIREMENTS

STATION DIAL TRANSFER CONTROLLER CIRCUIT

DRAWING ISSUE: 1 (W.P.B. JFF KFJ HN)

APPARATUS DESIG	APPARATUS CODE	APPARATUS OPT.	APPARATUS FIG.	MECH REQT BSP FIG.	MECH REQT CONT PRES	MECH REQT ARM. TRVL	CIRCUIT PREPARATION BLOCK OR INSULATE	CIRCUIT PREPARATION TEST CLIP DATA CONN BAT.	CIRCUIT PREPARATION TEST CLIP DATA CONN GRD		TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT TEST WDG	DIRECT CURRENT FLOW REQT TEST FOR	DIRECT CURRENT FLOW REQT AFTER SOAK MA	DIRECT CURRENT FLOW REQT TEST MA	DIRECT CURRENT FLOW REQT READJ MA	REMARKS
MAGNETS																		
HOLD THM90,1 SEL SM90-9	324AK SW		1				(TRTI) NO (SMC9) NO		R	MAG	GRD	6		0		31.5	30	
										TST	GRD	7		0		43.4	41.3	
									RB OR LT	MAG	GRD			0		36	34.5	
										TST								
RELAYS																		
ARO-9	AF20		1	205					U(ARO-9)		GRD			0		35.5	34	
ATB	1/2 AK26		1	10			(TRFR TRK NO.1 RELAY HM) NO		IU(ATB)		GRD			0		14.6	13.8	
GP	AJ15		1	249			5,6(GP)		U(GP)		GRD			0		42.5	40.5	
RCO	1/2 AK11		1	206			(STO-4) NO		IU(RCO)		GRD			0		17.4	16.5	MOUNTED WITH (RCI)
RCI	1/2 AK11		1	206			(ST5-9) NO		IL(RCI)		GRD			0		17.4	16.5	MOUNTED WITH (RCO)
SMC9	AF24		1	8					U(SMC9)		GRD			0		30.6	29	
STO-9	1/2 AK4		1	202							GRD	2		0		11.9	11.3	EVEN (ST-) RELAYS MOUNTED WITH ODD (ST-) RELAYS
T(O-9)A,B	AJ202		1	500			I(T-A,B)		U(T-A,B)		GRD			0		42.5	40.5	
TPO-S	1/2 AK7		1	203			(GP) NO				GRD	2		0		27.8	25.5	EVEN (TP-) RELAYS MOUNTED WITH ODD (TP-) RELAYS
														NO		10.5	11	
TRO-9	AJ516		1	299			(SIMILARLY NUMBERED T-A,B) NO		U(TRO-9)		GRD			0		41	39	
TRTI	AF100			252				L(TRTI)	U(TRTI)		B/G			0		41.5	39.5	
DIODES																		
ARO-9	446F		1									3,4,5						
GP	446F		1									3,4,5						
RCO,I	446F		1									3,4,5						
TPO-9	446F		1									3,4,5						

TEST NOTES:

1. MAKE TRANSFER TRUNK BUSY BY BLOCKING TRANSFER TRUNK RELAY HM OPERATED.
2. FOR EVEN (TP-), (ST-) RELAYS CONNECT GROUND TO IL. FOR ODD (TP-), (ST-) RELAYS CONNECT GROUND TO IU.
3. MAKE ALL VOLTAGE MEASUREMENTS WITH VOLTMETER WITH SENSITIVITIES OF 20,000 OHM/VOLT DC OR HIGHER. THE KS-14510 VOLTMETER IS SATISFACTORY. START ALL MEASUREMENTS WITH RANGE SWITCH ON THE 50V SCALE OR HIGHER, TO PREVENT DAMAGING METER IF VARISTOR IS SHORTED.
4. FORWARD RESISTANCE TEST:
   (a) CONNECT THE POSITIVE TERMINAL OF A NONGROUNDED 45-50 VOLT BATTERY TO ONE END OF AN 800 OHM RESISTOR. CONNECT THE OTHER END OF THE RESISTOR TO TERMINAL 1 OF THE DIODE.
   (b) CONNECT THE NEGATIVE END OF THE BATTERY TO TERMINAL 2 OF THE DIODE.
   (c) VOLTAGE MEASURED ACROSS THE DIODE SHALL NOT EXCEED 3 VOLTS.
5. REVERSE RESISTANCE TEST:
   (a) CONNECT THE POSITIVE TERMINAL OF A NONGROUNDED 45-50 VOLT BATTERY TO ONE END OF A 0.1 MEG RESISTOR. CONNECT THE OTHER END OF THE RESISTOR TO TERMINAL 2 OF THE DIODE.
   (b) CONNECT THE NEGATIVE END OF THE BATTERY TO TERMINAL 1 OF THE DIODE.
   (c) VOLTAGE MEASURED ACROSS THE 0.1 MEG RESISTOR SHALL NOT EXCEED 5 VOLTS.
6. THM9- OPERATED ALONE. TRFR TRK RELAY HM NOT CONNECTED.
7. THM9- AND TRFR TRK RELAY HM OPERATED IN PARALLEL.

PAGE 1

PBX SYSTEMS
NO. 756A
STATION DIAL TRANSFER CONTROLLER CIRCUIT

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E-74488 (4-66)

22

CIRCUIT REQUIREMENTS

DRAWING ISSUE: 1 (W.P.B. JFF KFJ HN)

APPARATUS DESIG	APPARATUS CODE	APPARATUS OPT.	APPARATUS FIG.	MECH REQT BSP FIG.	MECH REQT CONT PRES	MECH REQT ARM. TRVL	CIRCUIT PREPARATION BLOCK OR INSULATE	CIRCUIT PREPARATION TEST CLIP DATA CONN BAT.	CIRCUIT PREPARATION TEST CLIP DATA CONN GRD	TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT TEST WDG	DIRECT CURRENT FLOW REQT TEST FOR	DIRECT CURRENT FLOW REQT AFTER SOAK MA	DIRECT CURRENT FLOW REQT TEST MA	DIRECT CURRENT FLOW REQT READJ MA	REMARKS

PAGE

1

PBX SYSTEMS
NO. 756A
STATION DIAL TRANSFER CONTROLLER CIRCUIT

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PART OF CAD 1

SEE NOTE 1

C.O. TRK 0

TPO	50	2 (ARO)
RLR	25	3 (TOA)
U	49	5 (TOA)
SG	24	6 (TOA)
CG	48	9 (TRO)
MC	23	5 (STO)
TBS	47	1 (TRO)
RBS	22	3 (TRO)
TBA	46	1B (TRO)
RBA	21	3B (TRO)
TCA	45	11 (TOA)
RCA	20	12 (TOA)
SR	44	4 (TRO)
FR	19	4B (TRO)
AAB	43	3 (ARO)
AAA	18	15M (TOA)
PA	42	11 (TRO)
PB	17	18 (TOA)
MTR	41	3M (STO)
RS	16	7M (TRO)
TT	40	7 (TRO)
GR	15	5 (TRO)
ER	39	5B (TRO)
TL	14	10M (TRO)
LL	38	8M (TRO)
FL2	13	12M (TRO)
FLI	37	4 (ARO)

SD-66920-01
CAD 5

TPI	12	2 (ARI)
RLR	36	3 (TIA)
U	11	5 (TIA)
SG	35	6 (TIA)
CG	10	9 (TRI)
TBA	34	1B (TRI)
RBA	9	3B (TRI)
TBS	33	1 (TRI)
RBS	8	3 (TRI)
RCA	32	12 (TIA)
TCA	7	11 (TIA)
MC	31	8 (STI)
SR	6	4 (TRI)
FR	30	4B (TRI)
AAB	5	3 (ARI)
AAA	29	15M (TIA)
PA	4	11 (TRI)
PB	28	18 (TIA)
MTR	3	10M (STI)
RS	27	7M (TRI)
TT	2	7 (TRI)
GR	26	5 (TRI)
ER	1	5B (TRI)

C.O. TRK 1

PLUG ASSY "AA" PLUG 1

PLUG ASSY "A" PLUG 1

SEE NOTE 1

C.O. TRK 1

TL	50	10M (TRI)
LL	25	8M (TRI)
FL2	49	12M (TRI)
FLI	24	4 (ARI)
TP2	48	2 (AR2)
RLR	23	3 (T2A)
U	47	5 (T2A)
SG	22	6 (T2A)
CG	46	9 (TR2)
MC	21	5 (ST2)
TBS	45	1 (TR2)
RBS	20	3 (TR2)
TBA	44	12 (TR2)
RBA	19	3B (TR2)
TCA	43	11 (T2A)
RCA	18	12 (T2A)
SR	42	4 (TR2)
FR	17	4B (TR2)
AAB	41	3 (AR2)
AAA	16	15M (T2A)
PA	40	11 (TR2)
PB	15	18 (T2A)
MTR	39	3M (ST2)
RS	14	7M (TR2)
TT	38	7 (TR2)
GR	13	5 (TR2)
ER	37	5B (TR2)
TL	12	10M (TR2)
LL	36	8M (TR2)
FL2	11	12M (TR2)
FLI	35	4 (AR2)

SD-66920-01
CAD 5

TP3	10	2 (AR3)
RLR	34	3 (T3A)
U	9	5 (T3A)
SG	33	6 (T3A)
CG	8	9 (TR3)
TBA	32	1B (TR3)
RBA	7	3B (TR3)
TBS	31	1 (TR3)
RBS	6	3 (TR3)
RCA	30	12 (T3A)
TCA	5	11 (T3A)
MC	29	8 (ST3)
SR	4	4 (TR3)
FR	28	4B (TR3)
AAB	3	3 (AR3)
AAA	27	15M (T3A)
PA	2	11 (TR3)
PB	26	18 (T3A)
MTR	1	10M (ST3)

C.O. TRK 2

C.O. TRK 3

PLUG ASSY "A A" PLUG 2

PLUG ASSY "A" PLUG 2

SHEET NOTES
1. CABLE (A) PER H-912-

DRAWING ISSUE
1 ORIGINAL ISSUE KRJ HM
2 DWN SAK GFH

SD-66909-01-G1

2

PBX SYSTEMS
NO. 756A
STATION DIAL TRANSFER
CONTROLLER CIRCUIT

SD-66909-01-G1

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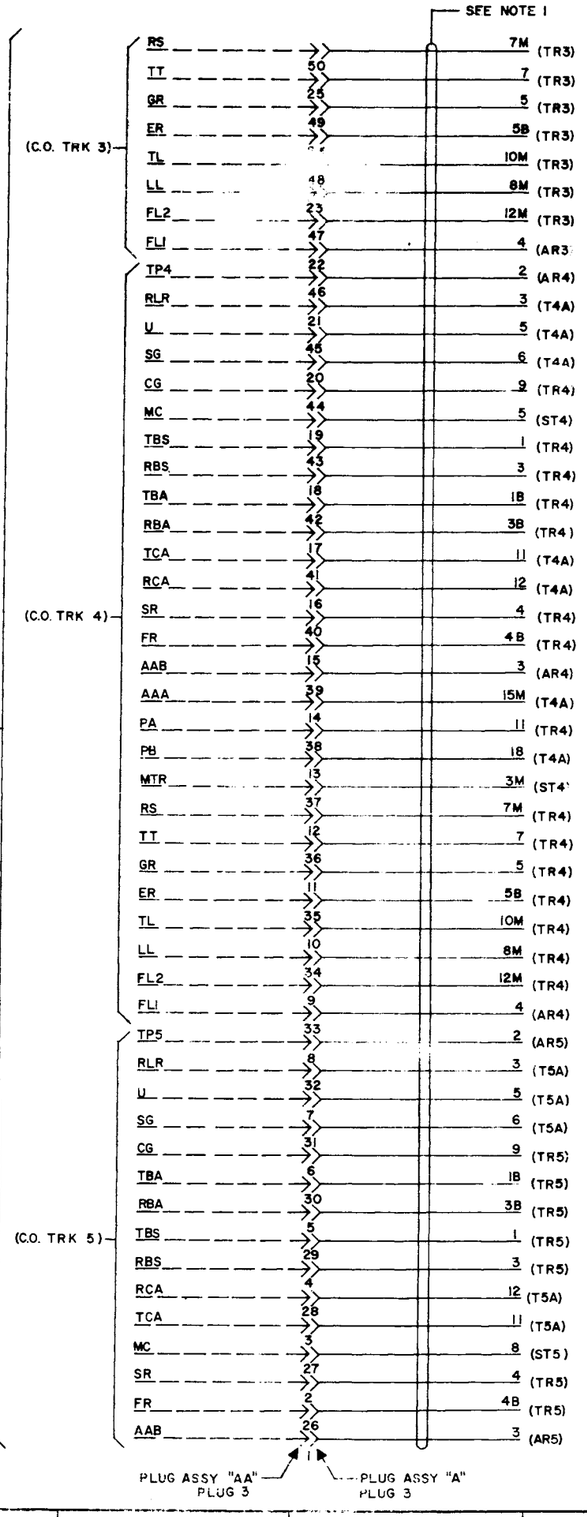

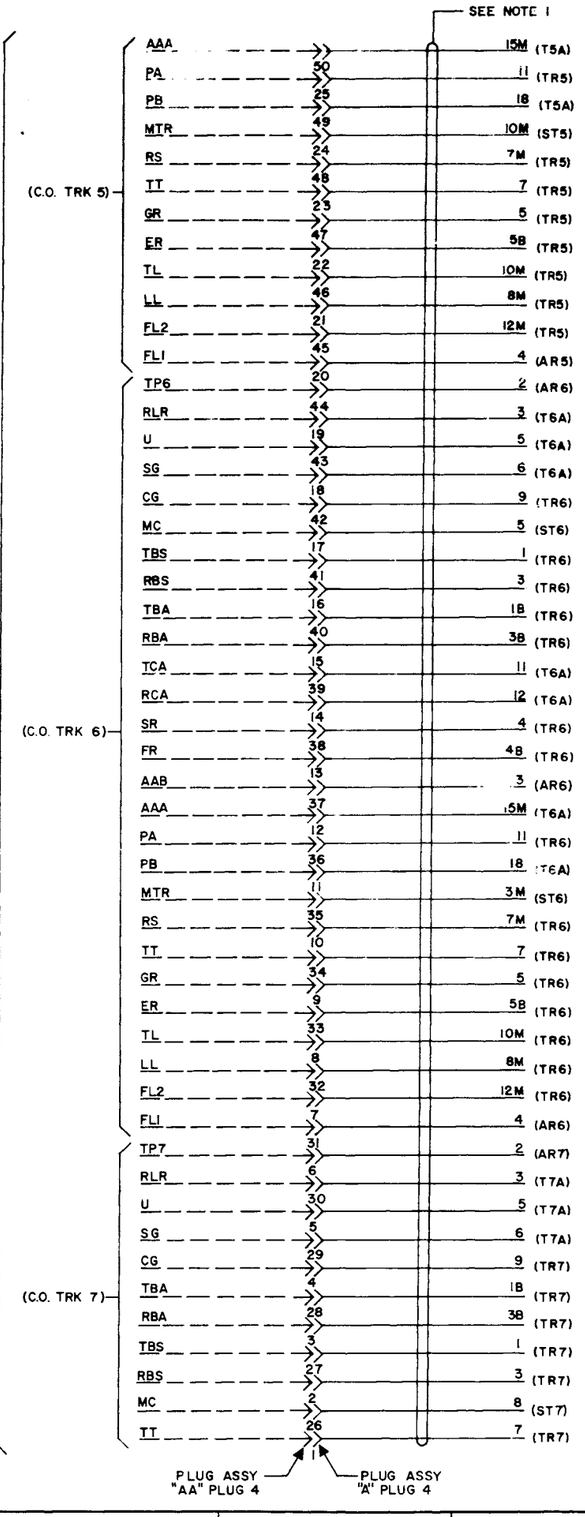

SHEET NOTES
1. CABLE (A) PER H-912-

DRAWING ISSUE
1 MFB JFF KFJ AM
2D EWE SAK GFM

2

PBX SYSTEMS
NO. 756A
STATION DIAL TRANSFER CONTROLLER CIRCUIT (2)

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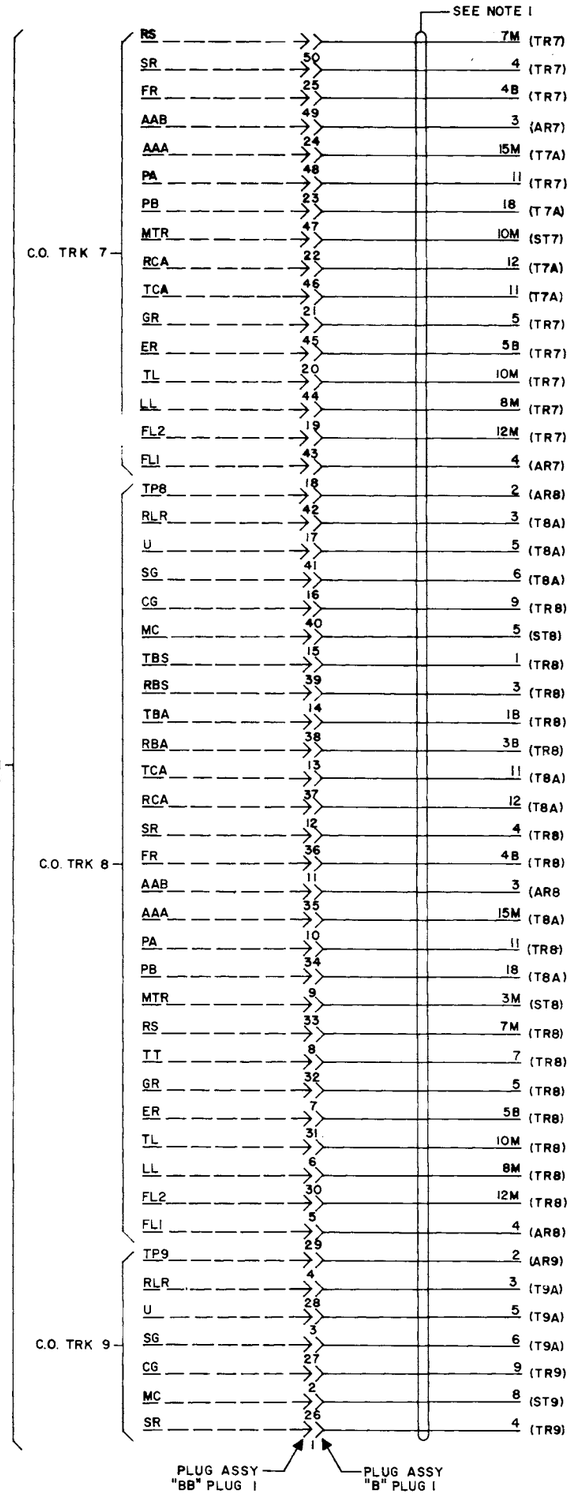

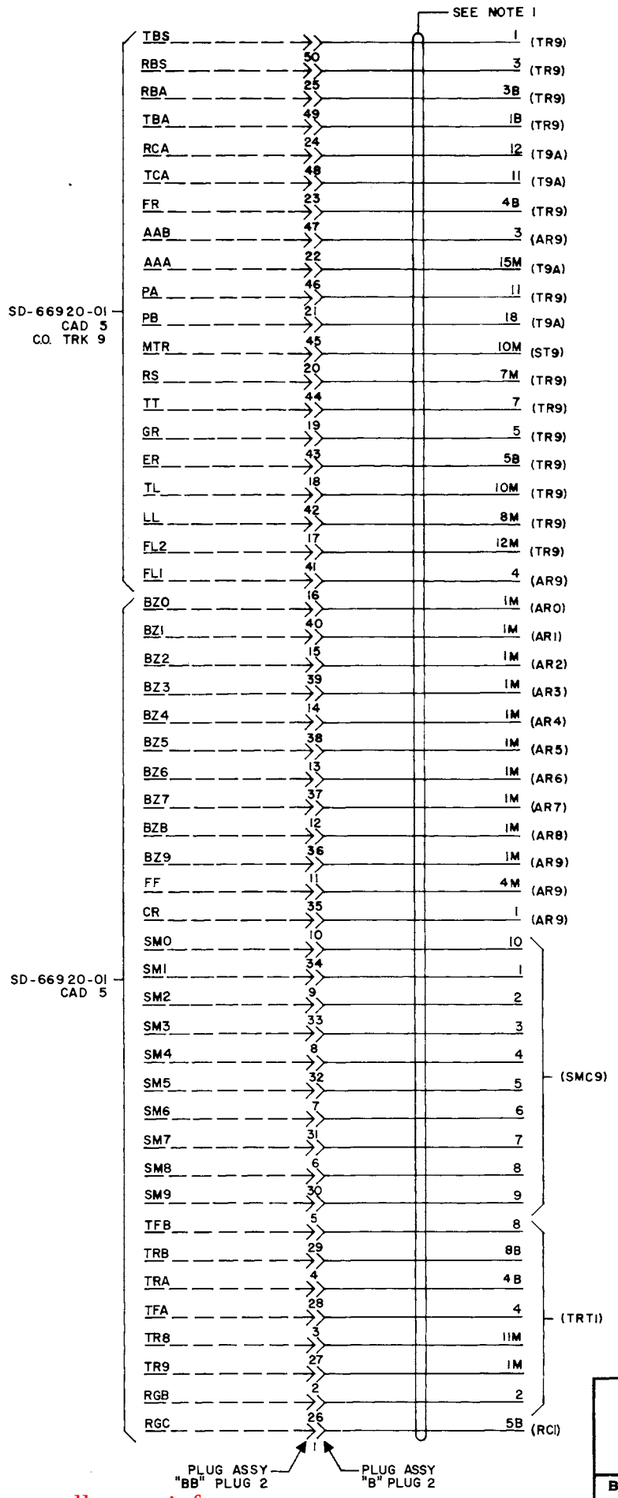

SHEET NOTES
1. CABLE (8) PER H-912-

DRAWING ISSUE
1 JF LFF KSJ HW
EMB SAK GFH

PBX SYSTEMS
NO. 756A
STATION DIAL TRANSFER CONTROLLER CIRCUIT (2)

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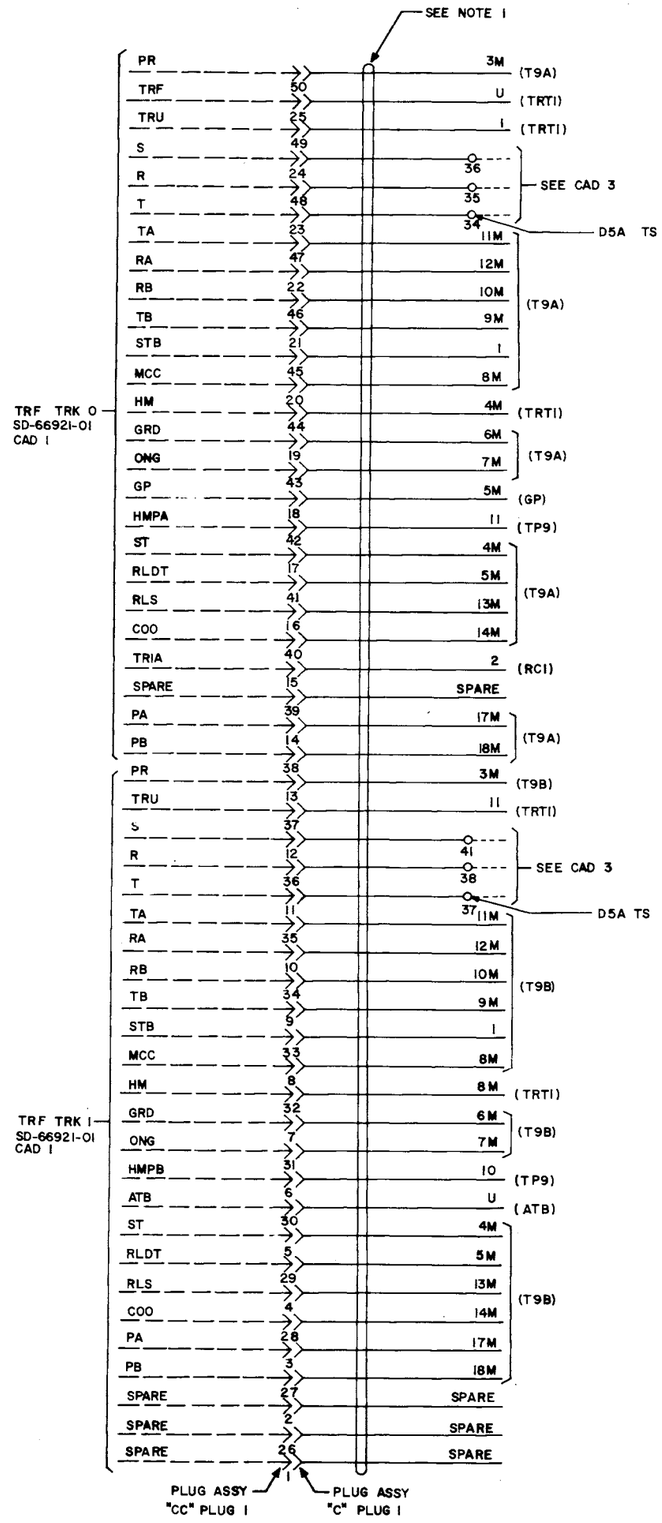

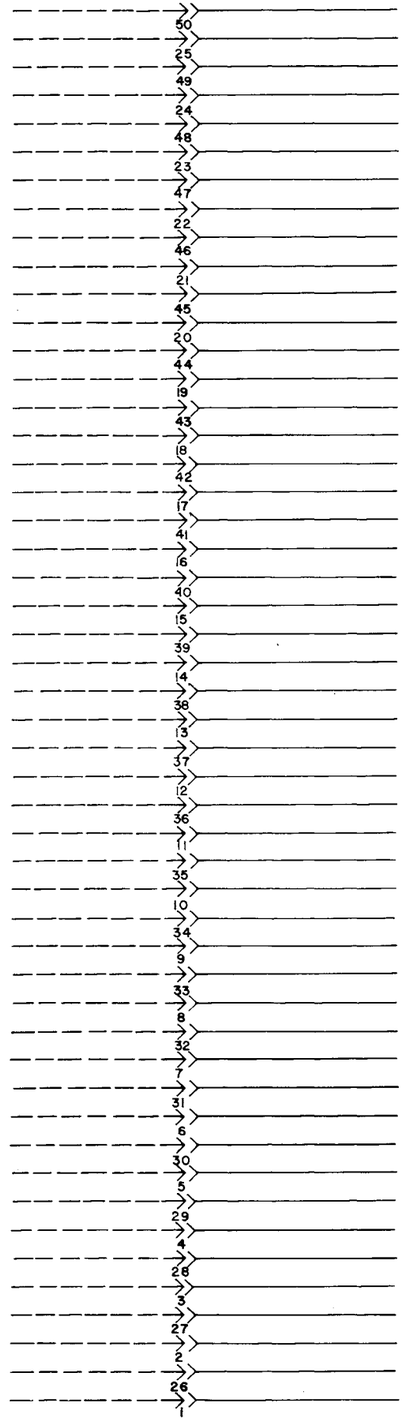

SHEET NOTES:
1. CABLE & PLUG ASSEMBLY (C) PER H-912-

DRAWING ISSUE
1 GP VFF KRJ HM
2D EWE SAK GFH

2

PBX SYSTEMS
NO. 756A
STATION DIAL TRANSFER CONTROLLER CIRCUIT (2)
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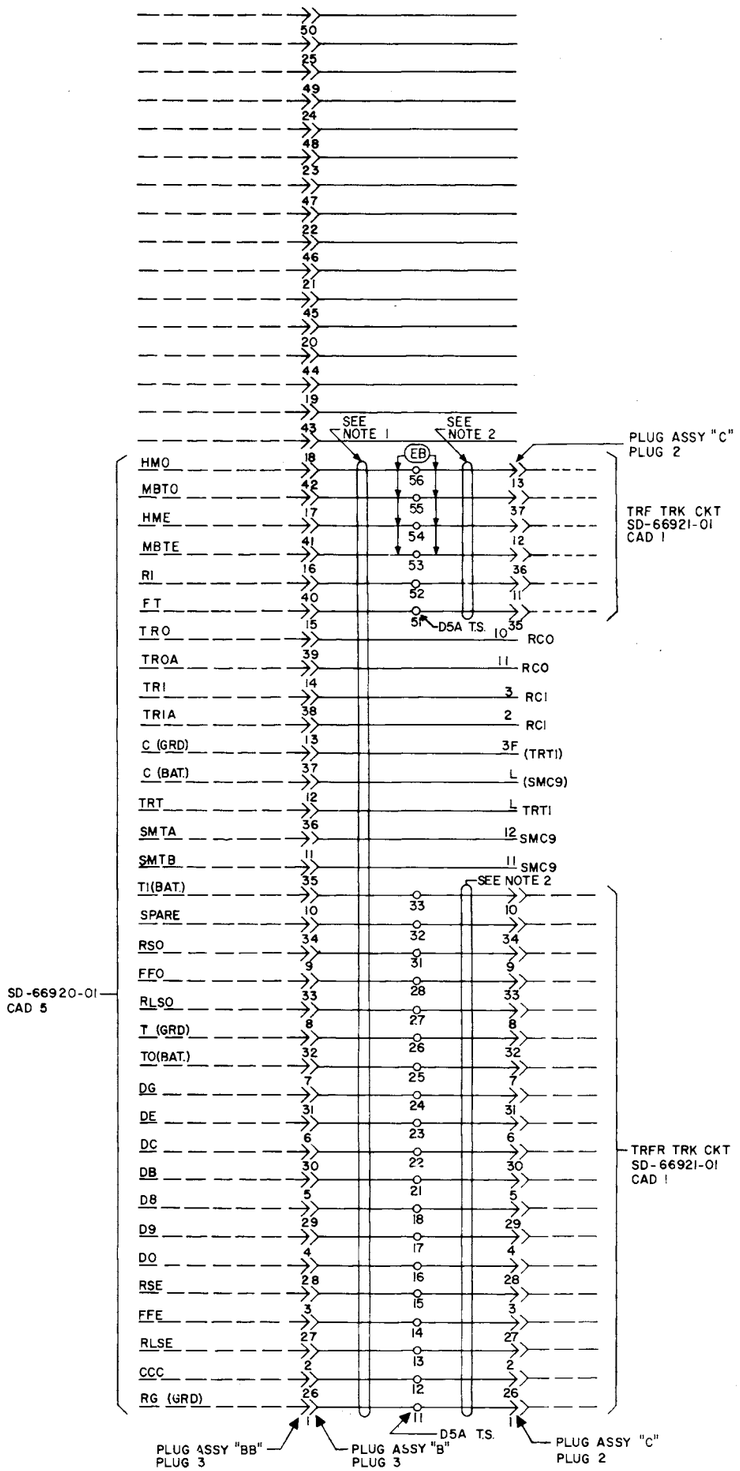
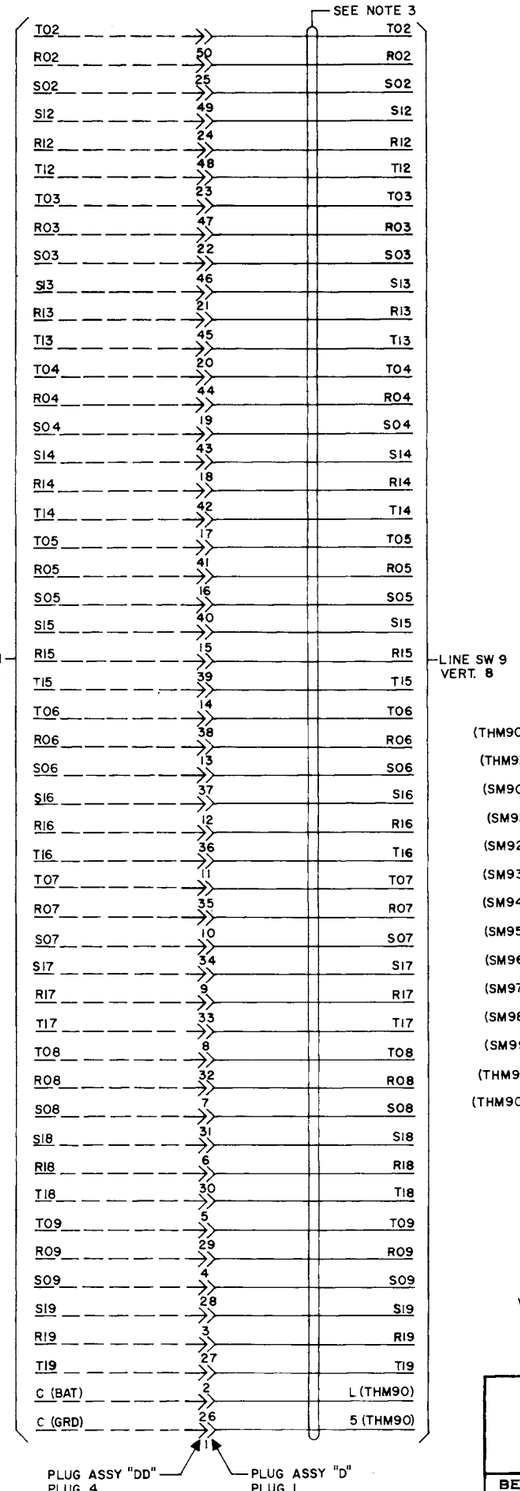
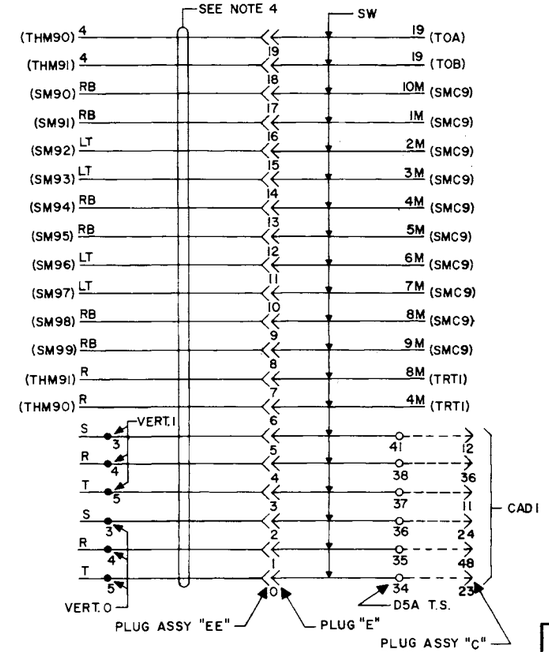


CAD 2
PARALLEL LINK CONNECTIONS BETWEEN SW 0 AND SW 9



SHEET NOTES.
1. CABLE AND PLUG ASSY (B) PER H-912-
2. CABLE AND PLUG ASSY (C) PER H-912-
3. CABLE AND PLUG ASSY (D) PER H-912-
4. CABLE AND PLUG ASSY (EE) PER H-912-

CAD 3
LEADS TO SW 9



DRAWING ISSUE	
1	JF, LJFF, KFJ
2	EWE, SAK, GFH
3D	FED, PJS, RHP

3

STATION DIAL TRANSFER CONTROLLER CIRCUIT

SD-66909-01-G5

BELL TELEPHONE LABORATORIES INCORPORATED

DWG SIZE 6S

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SD-66910-01-AI

SHEET INDEX

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APP FIG. 1	C1	1	1	3	3	C1
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CAD 1	G1	1	2	2	4	G1

SUPPORTING INFORMATION

CATEGORY	NO.
EQUIPMENT DWGS	J59329AH
756A PBX CROWN CABLING DIAG	SD-65746-01
756A PBX FEATURE CABLING DIAG	SD-66920-01
EQUIPMENT DESIGN REQ	J53829

SHEET INDEX NOTES

1. WHEN CHANGES ARE MADE IN THIS DRAWING, ONLY THOSE SHEETS AFFECTED WILL BE REISSUED.
2. 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.
3. THE ISSUE NUMBER ASSIGNED TO A CHANGED OR NEW SHEET WILL BE THE SAME ISSUE NUMBER AS THAT OF THE SHEET INDEX.
4. SHEETS THAT ARE NOT CHANGED WILL RETAIN THEIR EXISTING ISSUE NUMBER.
5. THE LAST ISSUE NUMBER OF THE SHEET INDEX IS RECOGNIZED AS THE LATEST ISSUE NUMBER OF THE DRAWING AS A WHOLE.

DWG ISSUE	CD ISSUE	DATE ISSUED	DRAWN	APPD
1	1	3-30-64	SAK JFF RWC	WES RAV KFJ
2D PMJD	1 APP 1D	1-13-65	EWE SAK RWC	WES RAV KFJ
3B	1 APP 2B	4-5-67	PMC RJS ARR	JHF LAH RHP
4D	1 APP 3D	10-24-67	ROZ RJS RCL	JJM LAH RHP

4

SD-66910-01 IJ07

PBX SYSTEMS
NO. 756A
AUXILIARY POSITION CIRCUIT
FOR REMOTE ANSWERING OF TRUNKS AND INWARD COMPLETION BY ANY STATION

(AUX. POS. CKT) (2)

AT & T CO STANDARD

SD-66910-01-AI
12 SHEETS

BELL TELEPHONE LABORATORIES INCORPORATED — DWG SIZE 6S

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APPARATUS INDEX

DESIG	LOCATION FS	APP FIG.	EQPT
RELAYS			
A	2B1	1	-
B	2D1	1	-
BN	1D1	1	-
C	2E1	1	-
F	2H1	1	-
H	2G1	1	-
L00	1A6	1	-
L01	1B6	1	-
L02	1C6	1	-
L03	1D6	1	-
L04	1D6	1	-
L05	1E6	1	
L06	1F6	1	-
L07	1F6	1	-
L08	1G6	1	-
L09	1G6	1	-
L0E	1B8	1	
NC0	3C4	1	-
NC1	3C4	1	-
NC2	3D4	1	-
NC3	3D4	1	-
NC4	3E4	1	-
NC5	3F4	1	-
NC6	3F4	1	-
NC7	3G4	1	-
NC8	3G4	1	-
NC9	3H4	1	-
NSA	3B4	1	-
ON	2F1	1	-
RA	1D1	1	-
RAC	1E1	1	-
RL	2F1	1	-
RTK	2D3	1	-
SIG	1D8	1	-

DESIG	LOCATION FS	APP FIG	EQPT
DIODES			
L00	1A5	1	-
L01	1B5	1	-
L02	1C5	1	-
L03	1D5	1	-
L04	1E5	1	-
L05	1E5	1	-
L06	1F5	1	-
L07	1F5	1	-
L08	1G5	1	-
L09	1G5	1	-

REPEAT COIL			
A	2B2	1	-

RESISTOR			
A	2B2	1	-

THERMISTOR			
RL	2G1	1	-

RESISTANCE LAMP			
A	1F8	1	-

CAPACITORS			
A	2B2	1	-
BT	2C2	1	-

LEAD INDEX

DESIG	FS LOC
TWO WAY TRUNK CKT TO CENTRAL OFFICE	
ACA0	2H7
ACA1-9	2D8
H0	2D4
H01	2F4
L00	1A4
L01-9	1D4
RTK0	2F4
RTK1-9	2F3

DESIG	FS LOC
CORDLESS POSITION CIRCUIT	
ACG	2B7
ACG1	2B7
H	2D2
RA	1C0
TR	2B4
TR1	2C4
TT	2B4
TT1	2C4

DESIG	FS LOC
LINE, LINK & MARKER CIRCUIT	
COSA	1F1
COSA1	1F1
COSB	1H1
COSB1	1H1
R2	2B1
S2	2C1
T2	2B1

ALARM, TRANSFER & TEST CIRCUIT	
NC0	2H7
NC1-9	2E7
NSA	3B4

POWER SUPPLY CIRCUIT	
B1	2C1
R1	1F7
RC OR RING C	1F7

EXTERNALLY AQUITED SIGNALLING EQUIPMENT	
TCW1	1E9
TCW2	1E9
TCW3	1F9
TCW4	1F9

OPTION INDEX

APP OR WRG	LOCATION
Z	2B2,2E0,2E1
Y	2B2,2E0,2F1
X	1E8
W	1E8

DRAWING ISSUE
1 SJW MFK
3B MFK RHP
$4D ROZ RHP

4

AUXILIARY POSITION CIRCUIT SD-66910-01-A2

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FS1
REMOTE ANSWER
CONNECT CIRCUIT

CORDLESS POSITION CIRCUIT

B
JACK
(CONSOLE)

REMOTE
ANSWER
KEY
(6 BUTTON
KEY TEL
SET)

RA

BN
RAC 5 U L 2500 T- -48

RA
U L 2500 T- -48

RA 4
RAC 12
ON 8
RAC
U L 2500 T- -48

RAC 2
COSA
COSAI

LINE, LINK & MKR CKT

COSA COTA CONAA
-48 G
G -48

COSB COTB CONBA
-48 H
H -48

COSB
COSBI
RAC 3

FS2
INCOMING SIGNAL
PREFERENCE AND
CONNECT CIRCUIT

TWO WAY TRK CKT TO CENT OFF.
R
R1
-48

TO TWO WAY TRK
CKT TO CENT OFF

LOO LOE 1 NCO 4 LOO U L 2500 RAC 1 T- -48
LOO 12
6 LOO

LO1 LOE 2 NC1 9 LO1 U L 2500
LO1 12
6 LO1

LO2 LOE 3 NC2 4 LO2 U L 2500
LO2 12
6 LO2

LO3 LOE 4 NC3 9 LO3 U L 2500
LO3 12
6 LO3

LO4 LOE 5 NC4 4 LO4 U L 2500
LO4 12
6 LO4

LO5 LOE 6 NC5 9 LO5 U L 2500
LO5 12
6 LO5

LO6 LOE 7 NC6 4 LO6 U L 2500
LO6 12
6 LO6

LO7 LOE 8 NC7 9 LO7 U L 2500
LO7 12
6 LO7

LO8 LOE 9 NC8 4 LO8 U L 2500
LO8 12
6 LO8

LO9 LOE 10 NC9 9 LO9 U L 2500
LO9 12
6 LO9

ON 10 RL 5
C 4
H 9
A 2E0

RL 6
ON 9
RAC 6 LOE U L 2500 T- -48

LO(0-9) 1
ON 4 RA 10 SIG U L 2500 T- -48

SIG 2 TCW1
T- -48

SIG 4 TCW2

TO
EXTERNALLY
MOUNTED
SIGNALING
EQUIPMENT

POWER SUPPLY
CKT
± R1
RG OR RING G
A
SIG 12 TCW3
SIG 10 TCW4
P P

DRAWING ISSUE		
1	PFD WFF KFJ	HM
2D	EWE SAK KFJ	
3B	PMC RJS RHP	H.I
4D	ROZ RJS RHP	

4

AUXILIARY POSITION CIRCUIT (2) SD-66910-01-BI

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FS 3

REMOTE ANSWER CIRCUIT

DRAWING ISSUE	
1	PFD UFF KFL HW
3B	PMC RJS RHP HW

LINE, LINK & MKR CKT – TRK LINE CKT

SEE NOTE 1

TO LINKS

OT-- T T2 R R2 S

P -48 T– 2L 1U IL A P-400 2U S-400

A 200

RAC 5

C 8 B 7 RL 9 A 8

INT LT POWER SUPPLY CKT

BT .04 ON 4 RAC

OT-- IT-- L-- IN-- -48 LHM

S2 B 4 ON 12

H RAC H 8 8 H -48 CORDLESS POSITION CKT

RL 8 A 6 B U L SR 2000 T– -48

7 A

RTK -48 T– L U 700 RL 4

RTK9 RTK8 RTK7 RTK6 RTK5 RTK4 RTK3 RTK2 RTKI 4 LO9 LO8 LO7 LO6 LO5 LO4 LO3 LO2 LO1

LOO 4

TO TWO WAY TRK CKT TO C.O.

Z H 11 A 1H5 RTK 10 Z C 6 Z ON 3 1U C IL SR P-450 T– -48

2U 2L S-57 C 10

ON B 10 U L 700 T– -48

RL 11 LO(0-9) RL 12 RL B 9 RL T U L 2500 T– -48

ON 11

RL 11 RTK 4 F 5 H 1U 2U 2450 T– -48

B 8 4 F C 2 F 1L 2L 2450 T– -48

CORDLESS POSITION CKT

RAC 11 TT P TR 10 TRI P TTI

T FB R FB FB SP NT H

-48 BT SP

A JACK B JACK SP H

LT LR BT TR TT ACA

PU KEY

ACG RAC 9 ACGI

LOE 12

ACA ACA AC ACA ACA

LINE END OF TRK C.O. END OF TRK

AC

H ACA SR ACA AC -48 ACA

HDI HD ACA RS HM HD -48

ACA -48 AC ACA

RTKO RT HM SL

N -48 N NI ACA -48 NI

TWO WAY TRK CKT TO C.O.

NS NS CNO NS NCO

ALARM, TRANS & TEST CKT

TO TWO WAY TRK CKT TO C.O.

TO ALARM, TRANS & TEST CKT

ACA9 11 BN NC9 NC9 3H2 LO9

ACA8 10 BN NC8 NC8 3G2 LO8

ACA7 9 BN NC7 NC7 3G2 LO7

ACA6 8 BN NC6 NC6 3F2 LO6

ACA5 7 BN NC5 NC5 3F2 LO5

ACA4 6 BN NC4 NC4 3E2 LO4

ACA3 5 BN NC3 NC3 3D2 LO3

ACA2 4 BN NC2 NC2 3D2 LO2

ACA1 3 BN NC1 NC1 3C2 LO1

ACAO LOO 8 1 BN NCO NCO 3C2

SHEET NOTES:

1. ASSIGN AUX POS. CKT TO A TRUNK TERMINATION FOR MISC TRUNKS (80-89 GROUP).

3

AUXILIARY POSITION CIRCUIT

SD-66910-01-B2

BELL TELEPHONE LABORATORIES INCORPORATED

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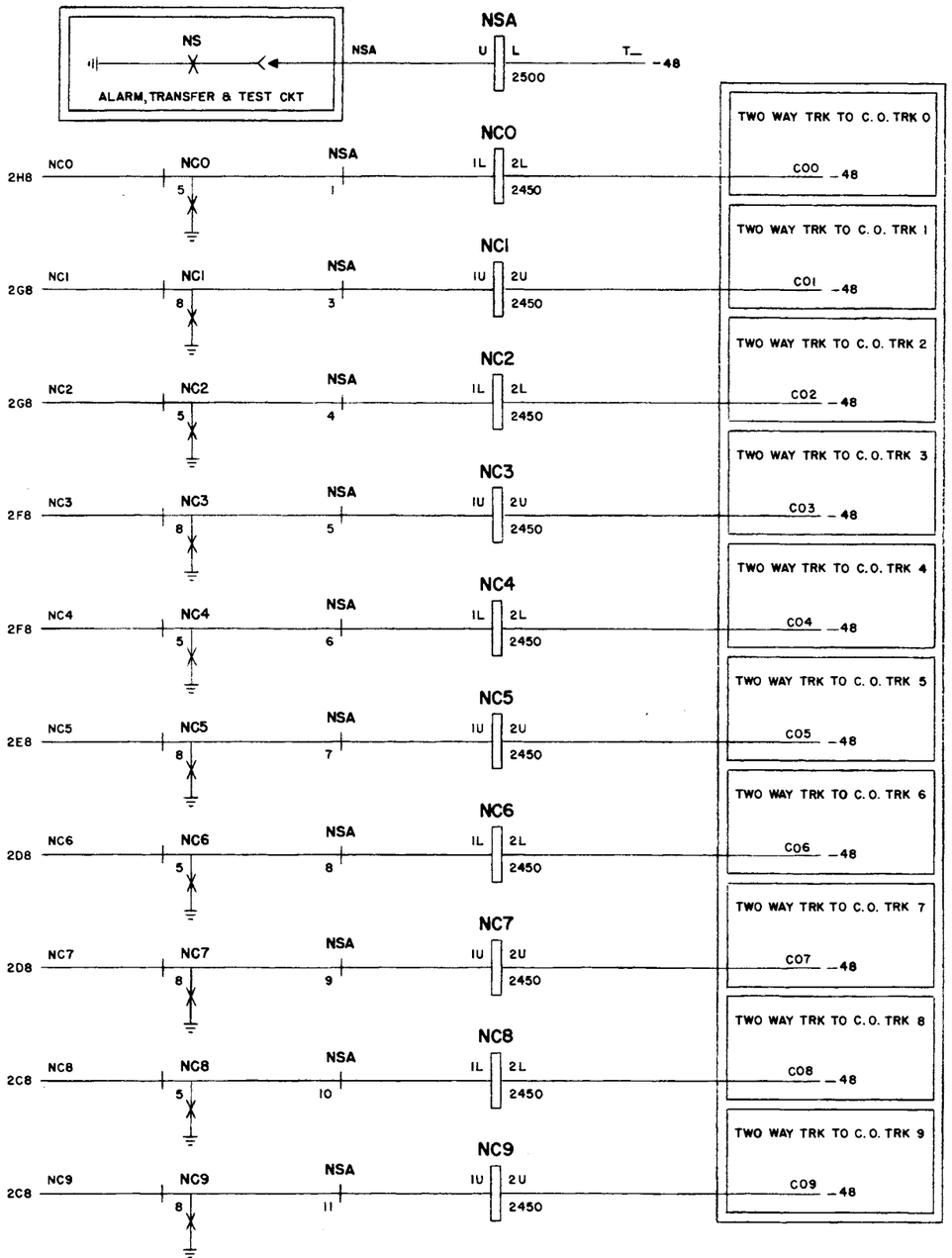
FS 4

AUXILIARY NIGHT CONNECTION CIRCUIT



DRAWING ISSUE

1 PFD JFF HW KFJ

SD-66910-01-B3

1

PBX SYSTEMS
NO. 756A
AUXILIARY POSITION CIRCUIT (2)

SD-66910-01-B3

BELL TELEPHONE LABORATORIES INCORPORATED

DWG SIZE 6S

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APP FIG. 1

RELAY

DESIG	A		B		BN		C		F		H		L00		L01		L02		L03		L04		L05		DESIG
CODE	AJ59		AG41		AF129		AG21		AK24				AF79		AF79		AF79		AF79		AF79		AF79		CODE
OPTION																									OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12					M						3M		EMB	1B5	EMB	1C5	EMB	1D5	EMB	1D5	EMB	1E5	EMB	1E5	12
11					B	2B9					3M	2E0	M	2F0	M	2F0	M	2F0	M	2F0	M	2F0	M	2F0	11
10			M	2F0	BM	2C9	M	2E1					EBM		EBM		EBM		EBM		EBM		EBM		10
9			B	2G0	B	2D8					M	1H4													9
8	M	2B3	EBM	2H0	BM	2D8	EMB	2B2			M	2D2	EBM	2H8	EBM	2G9	EBM	2F9	EBM	2F9	EBM	2E9	EBM	2E9	8
7	B	2E1	B	2B2	B	2E8																			7
6	M	2D1	EBM		M	2E8	EMB	a					EMB	1B6	EMB	1C6	EMB	1C6	EMB	1D6	EMB	1E6	EMB	1E6	6
5			B		B	2F9			M	2G1															5
4			M	2C1	BM	2G3	M	1H4	M	2H0			EBM	2H3	EBM	2H3	EBM	2H3	EBM	2G3	EBM	2G3	EBM	2G3	4
3					B	2G4																			3
2					M		M	2H1	BM				EBM		EBM		EBM		EBM		EBM		EBM		2
1					B	2H8			BM				M	1D7	M	1D7	M	1D7	M	1D7	M	1D7	M	1D7	1
COIL		2B1		2C1		1D1		2E1		2H1		2G1		1A6		1B6		1C6		1D6		1D6		1E6	COIL

a: Z 2E1, Y 2B2

RELAY

DESIG	L06		L07		L08		L09		L0E		NC0		NC1		NC2		NC3		NC4		NC5				DESIG
CODE	AF79		AF79		AF79		AF79		AJ5		AK4		AK4		AK4		AK4		AK4						CODE
OPTION																									OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	EMB	1F5	EMB	1G5	EMB	1G5	EMB	1H5	EBM	2B8			M				M				M				12
11	M	2F0	M	2F0	M	2F0	M	2F0	EBM				EBM				EBM				EBM				11
10	EBM		EBM		EBM		EBM		EBM	1G4			EBM				EBM				EBM				10
9									EBM	1G4			EMB	1C5			EMB	1D5			EMB	1E5			9
8	EBM	2D9	EBM	2C9	EBM	2C9	EBM	2B9	EBM	1F4			EMB	3C3			EMB	3D3			EMB	3F3			8
7									EBM	1F4															7
6	EMB	1F6	EMB	1F6	EMB	1G6	EMB	1H6	EBM	1E4															6
5									EBM	1D4	EMB	3C3			EMB	3D3			EMB	3E3					5
4	EBM	2F3	EBM	2F3	EBM	2E3	EBM	2E3	EBM	1D4	EMB	1B5			EMB	1C5			EMB	1D5					4
3									EBM	1C4	EBM				EBM				EBM						3
2	EBM		EBM		EBM		EBM		EBM	1C4	EBM				EBM				EBM						2
1	M	1D7	M	1D7	M	1D7	M	1D7	EBM	1B4	M				M				M						1
COIL		1F6		1F6		1G6		1G6		1B9		3C4		3C4		3D4		3D4		3E4		3F4			COIL

CAPACITORS

DESIG	LOC	CODE
A	2B2	439A
BT	2C2	441A

REPT COIL

DESIG	LOC	CODE
A	2B2	202A

DIODES

DESIG	LOC	CODE
L00	1A5	44EF
L01	1B5	44EF
L02	1C5	44EF
L03	1D5	44EF
L04	1D5	44EF
L05	1E5	44EF
L06	1F5	44EF
L07	1F5	44EF
L08	1G5	44EF
L09	1G5	44EF

RESISTANCE LAMP

DESIG	LOC	CODE
A	1F8	13G

RESISTORS

DESIG	LOC	CODE
A	2B2	18G

THERMISTOR

DESIG	LOC	CODE
RL	2G1	1D

RELAY

DESIG	NC6		NC7		NC8		NC9		NSA		ON		RA		RAC		RL		RTK		SIG				DESIG
CODE	AK4		AK4		AK4		AK4		AF129		AF112		AF115		AJ5		AF134		AF50		AF60				CODE
OPTION																									OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12			M				M		M		M	2D1			EBM	1E0	M	2F1			M	1F8			12
11			EBM				EBM		B	3H4	M	2G0			EBM	2B3	M	2G0							11
10			EBM				EBM		BM	3H4	M	1H4	M	1D9	EBM	2B4	EBM		M	2E0	M	1F8			10
9			EMB	1F5			EMB	1G5	B	3G4	M	1B7			EBM	2B7	B	2B3							9
8			EMB	3G3			EMB	3H3	BM	3F4	EBM	1E0	EBM		EBM	2D2	EBM	2D1	BM		M				8
7									B	3F4					EBM	2D3	B	2D4			B				7
6									BM	3E4	EBM		B		EBM	1B8	EBM	1B7	BM		M				6
5	EMB	3F3			EMB	3G3			B	3E4					EBM	a	B	1H5							5
4	EMB	1F5			EMB	1G5			BM	3D4	EBM	1D9	M	1E0	EBM	2C2	EBM	2D3	M	2G1	M	1E8			4
3	EBM				EBM				B	3C4	M	2E1			EBM	1H1									3
2	EBM				EBM				M		M		EBM		EBM	1F1	M				M	1E8			2
1	M				M				B	3C4	M	2C2			EBM	1A7	M								1
COIL		3F4		3G4		3G4		3H4		3B4		2F1		1D1		1E1		2F1		2D3		1D8			COIL

a: 1D1, 2A2

RELAY

DESIG																									DESIG
CODE																									CODE
OPTION																									OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	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

DRAWING ISSUE

1	SAK	HW
	WFF	
	KFJ	
3B	PMC	HW
	RJS	
	RHP	

AUXILIARY POSITION CIRCUIT 12

BELL TELEPHONE LABORATORIES INCORPORATED

DWG SIZE 6S

SD-66910-01-C1

3

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CIRCUIT NOTES:

101.

DESIG	FUSE AMP	POTENTIAL	ONE PER
T-	1-1/3	-48V	APP FIG 1 (SEE NOTE 105)
COD-9	1-1/3	-48V	APP FIG.1
G	1-1/3	-48V	APP FIG.1
H	1-1/3	-48V	APP FIG.1

BATTERY SYMBOL	VOLTAGE RANGE
-48	45-52V

NOTES:
1. FUSES DESIGNATED COD-9 SHALL BE OBTAINED FROM TWO WAY TRK TO CO AND FUSES DESIGNATED G AND H SHALL BE OBTAINED FROM MKR CKT .

102.

FEATURE OR OPTION	PROVIDE		
	APP FIG.	APP OR WRG	QUANTITY
AUXILIARY POSITION CIRCUIT	1		MAX 1 PER PBX

103.

NETWORK VALUES		
NETWORK NO.	RESISTANCE IN OHMS	CAPACITANCE IN UF

104.

RECORD OF 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	
3B	Y,Z	Z		Y		Z	
	X,W	X		W		X	

105. DESIGNATE FUSE T- TO CORRESPOND TO TRUNK TERMINATION FOR MISCELLANEOUS TRUNKS ASSIGNED TO AUX POS CKT (T80-99) .

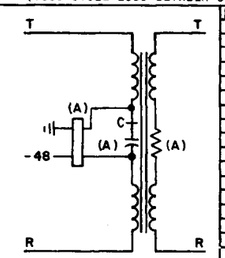
106. WHEN THIS CIRCUIT IS PROVIDED, "ZZ" OPTION SHALL BE PROVIDED IN THE TWO WAY TRUNK CIRCUIT TO CENTRAL OFFICE .

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

TRANSMISSION TEST REQUIREMENTS
(1000 CYCLE LOSS BETWEEN 600Ω LINES)



MAX ALLOWABLE CIRCUIT LOSS (db)
2.5

ALLOWABLE INDIVIDUAL APPARATUS LOSSES (db)

APPARATUS	DESIG	CODE	MAX LOSS	MIN LOSS	REMARKS
CAPACITOR	A	2MF	13.7	11.7	
RELAY	A	AJ59	0.2		
RPT COIL	A	202A	1.2	0.6	STRAP (A) RES

WORKING LIMITS

MAX EXT CKT LOOP RES - A RELAY - 3300 OHMS
MIN INSULATION RES 10,000 OHMS

DRAWING ISSUE	
1	MJK MTF NP KFJ
2D	EWE SAK KFJ
3B	PMC RJS RHP

3

AUXILIARY POSITION CIRCUIT (2) | SD-66910-01-DI

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K-7428 (5-69)

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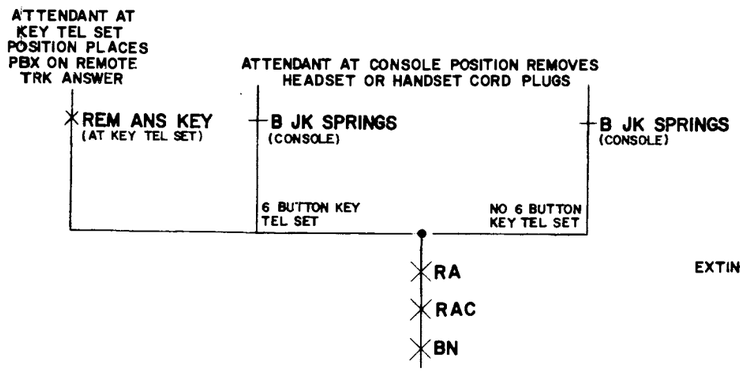
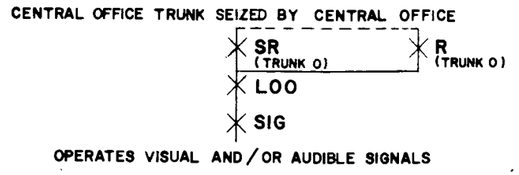
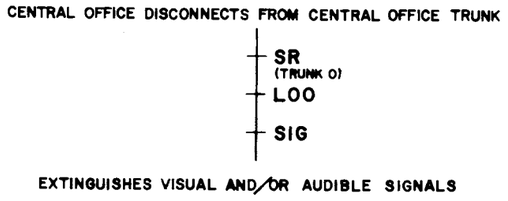
SC1
ATTENDANT ESTABLISHES REMOTE ANSWER CONNECTIONS FOR CENTRAL OFFICE TRUNKS



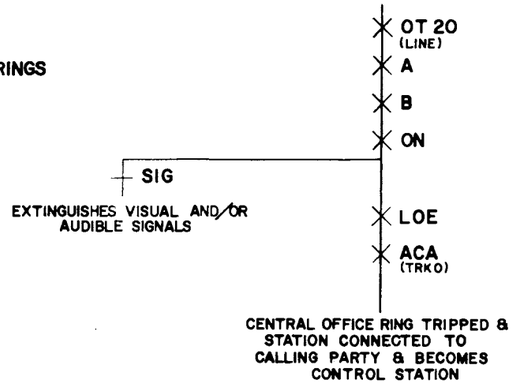
SC2
INCOMING CALL TO A CENTRAL OFFICE TRUNK (PREVIOUS ACTION SHOWN ON SC 1)



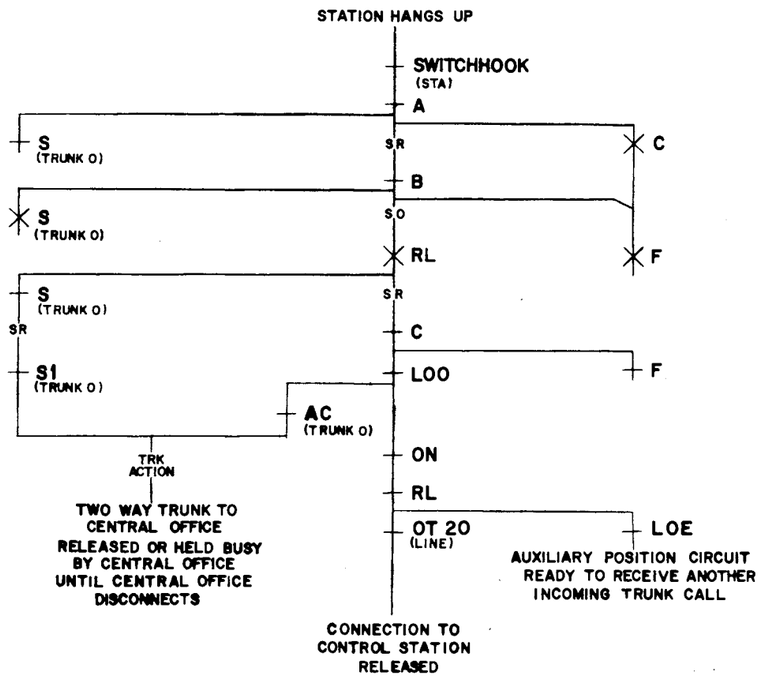
SC3
CALLING PARTY DISCONNECTS BEFORE CALL IS ANSWERED (PREVIOUS ACTION SHOWN ON SC 2)



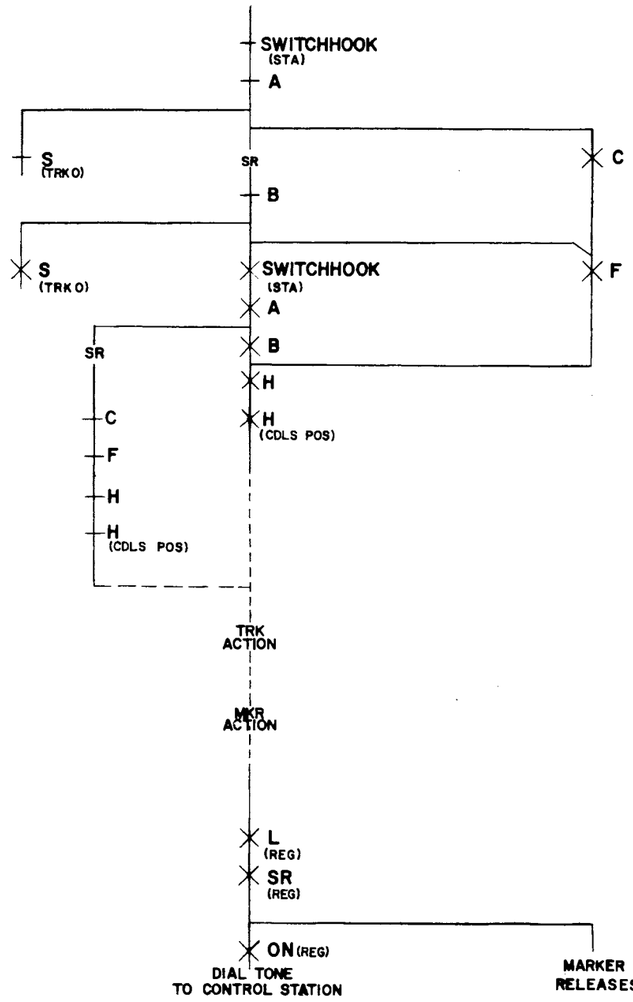
SC4
INCOMING CALL ANSWERED FROM A PBX STATION (PREVIOUS ACTION SHOWN ON SC 2)



SC5
CONTROL STATION DISCONNECTS TO TERMINATE CALL WITHOUT TRANSFER (PREVIOUS ACTION SHOWN ON SC 4)



SC6
CONTROL STATION ESTABLISHES DIAL TONE CONNECTION (PREVIOUS ACTION SHOWN ON SC 4 OR SC 9)



SHEET NOTES:

1. SC 1 TO 6 ASSUME CENTRAL OFFICE TRUNK 0 IS ASSOCIATED WITH THE LOO RELAY IN THE AUXILIARY POSITION CIRCUIT.
2. SC 4 & 5 ASSUME THE AUXILIARY POSITION CIRCUIT IS ASSIGNED TO MISC TRK TERMINATION 80.

DRAWING ISSUE 1 — PMJQ JFF KFJ MW; 2D — PMJQ EWE SAK KFJ

2

PBX SYSTEMS
NO. 756A
AUXILIARY POSITION CIRCUIT (2)

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PMJQ
SD-66910-01-E1

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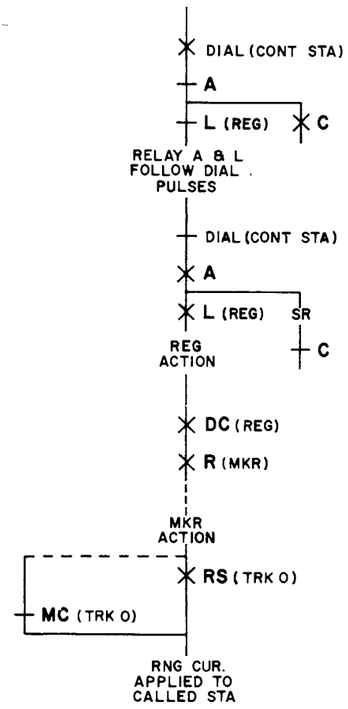
SC 7

CONTROL STATION DIALS AN IDLE STATION

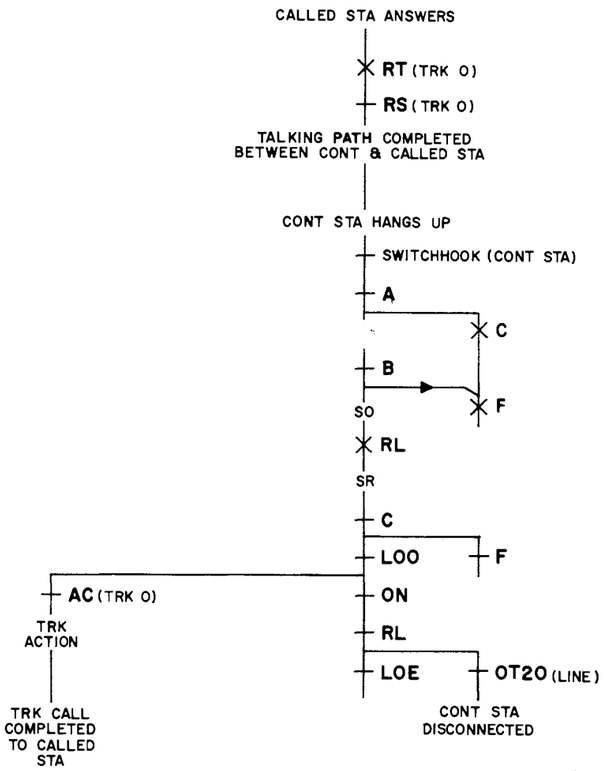
(PREVIOUS ACTION SHOWN IN SC 6)



SC 8

CALLED STATION ANSWERS AND CONTROL STATION TRANSFERS CALLED STATION TO TRUNK CALL

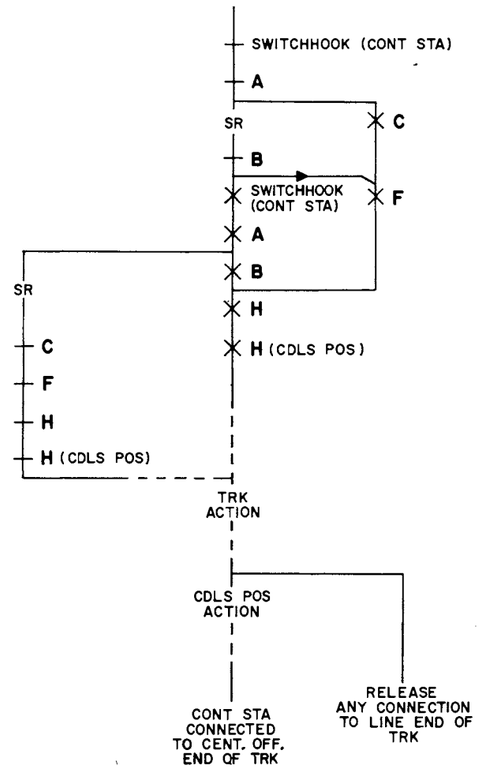
(PREVIOUS ACTION SHOWN IN SC 7)



SC 9

CONTROL STATION RETURNS TO TRUNK CALL

(PREVIOUS ACTION SHOWN IN SC 6 OR 7)



DRAWING ISSUE

1 SAK JAF WFJ

PBX SYSTEMS
NO. 756A
AUXILIARY POSITION CIRCUIT

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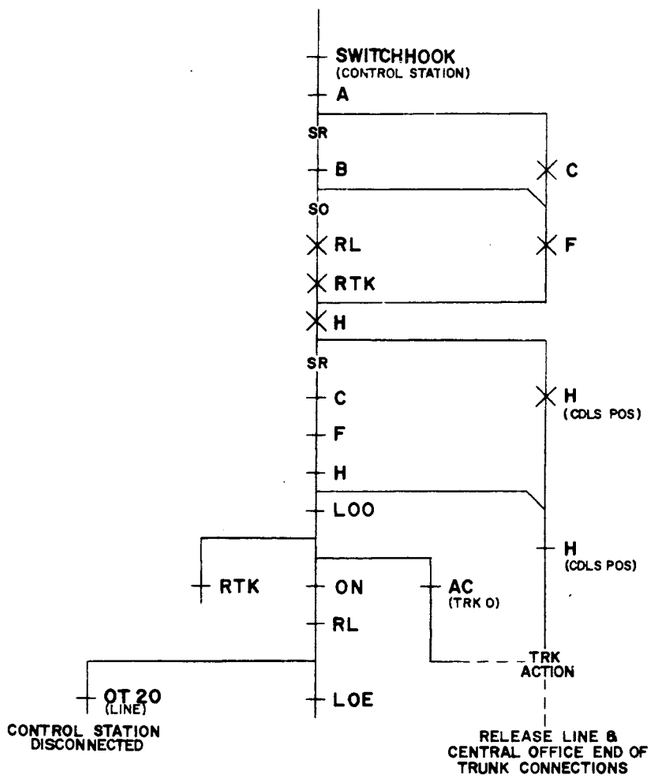
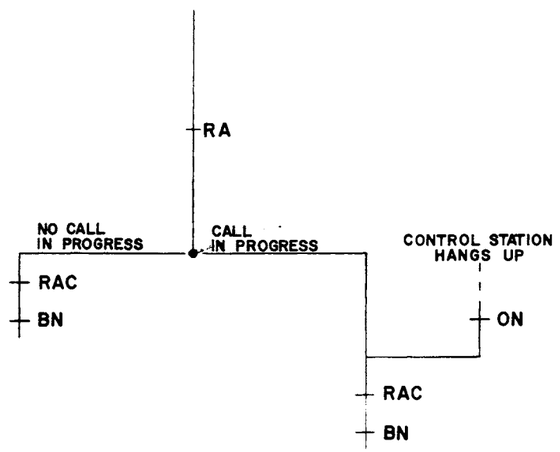
SC 10

CONTROL STATION DISCONNECTS WITHOUT RELEASING LINE END TRUNK CONNECTION



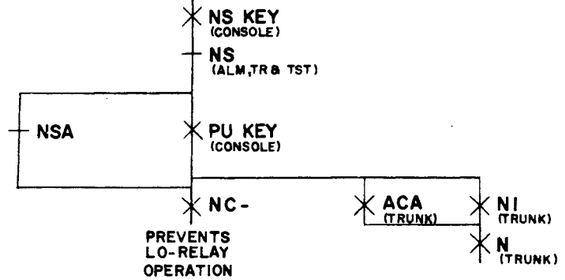
SC 11

ATTENDANT RELEASES REMOTE ANSWER CONNECTIONS



SC 12

ATTENDANT ESTABLISHES TRUNK FLEXIBLE NIGHT CONNECTION



PBX SYSTEMS NO. 756A AUXILIARY POSITION CIRCUIT (2)	SD-66910-01-E3
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CIRCUIT REQUIREMENTS

DRAWING ISSUE: 1 SAK JFF KFJ HW

APPARATUS DESIG	APPARATUS CODE	APPARATUS OPT.	APPARATUS FIG.		MECH REQT BSP FIG.	MECH REQT CONT PRES	MECH REQT ARM. TRVL	CIRCUIT PREPARATION BLOCK OR INSULATE	CIRCUIT PREPARATION TEST CLIP DATA CONN BAT.	CIRCUIT PREPARATION TEST CLIP DATA CONN GRD	TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT TEST WDG	DIRECT CURRENT FLOW REQT TEST FOR	DIRECT CURRENT FLOW REQT AFTER SOAK MA	DIRECT CURRENT FLOW REQT TEST MA	DIRECT CURRENT FLOW REQT READJ MA	REMARKS
A	AJ59		1		37			(B) NO	IL (A)	2U (A)	M	1	P/S	0		10.4	9.9	
								(B) NO	IL (A)	2U (A)	M	1	P/S	R		4	4.3	
B	AG41		1		264B			(ON) NO		U (B)	GRD			0	FS	10.8	10.2	
								(ON) NO		U (B)	GRD			H	FS	1.8	1.7	
								(ON) NO		U (B)	GRD			R	FS	1.1	1.3	
BN	AF129		1		28					U (BN)	GRD	4		0		10	9.5	
C	AG21		1		282B					IU (C)	GRD	2,3	P	0	FS	48.5	46	
										IU (C)	GRD	2,3	P	H	FS	6	5.7	
										IU(C)	GRD	2,3	P	R	FS	3.9	4.6	
F	1/2AK24		1		12					IL (F)	GRD			0		7.8	7.4	MOUNTED WITH (H)
H	1/2AK24		1		12					IU (H)	GRD			0		7.8	7.4	MOUNTED WITH (F)
LOO-9	AF79		1		205			(LOE) O	L REL TST	U REL TST	B/G			0		9.7	9.2	
LOE	AJ5		1		220					U (LOE)	GRD			0		13.3	12.6	
NC-EVEN	1/2 AK4		1		202			(NSA) O		IL REL TST	GRD			0		11.9	11.3	MOUNTED WITH ODD (LO-) RELAY
NC-(ODD)	1/2 AK4		1		202			(NSA) O		IU REL TSE	GRD			0		11.9	11.3	MOUNTED WITH EVEN (LC-) RELAY
NSA	AF129		1		28					U (NSA)	GRD	4		0		10	9.5	
ON	AF112		1		268			11M(ON)		U (ON)	GRD			0		35.5	33.5	
RA	AF115		1		274			(RAC) NO		U (RA)	GRD			0		7.1	6.7	
RAC	AJ5		1		220			(LOE) O		U (RAC)	GRD	4,5		0		13.3	12.6	
RL	AF134		1		230					U (RL)	GRD			0		10.3	9.8	
RTK	AF50		1		18					U (RTK)	GRD			0		23.5	22	
SIG	AF60		1		8					U (SIG)	GRD			0		6.6	6.2	

TEST NOTES:

1. ARMATURE BACK TENSION MINIMUM 20 GRAMS READJUST, 15 GRAMS TEST.
2. ARMATURE BACK TENSION MAXIMUM 80 GRAMS READJUST, 85 GRAMS TEST.
3. REQUIREMENTS APPLY TO PRIMARY WINDING WITH SECONDARY WINDING SHORT-CIRCUITED.
4. TEST WITH NIGHT SERVICE KEY (AT 6 BUTTON KEY TELEPHONE SET OR IN CORDLESS POSITION) RELEASED.
5. TEST DURING LIGHT PERIODS OF TRAFFIC ONLY.

PBX SYSTEMS
NO. 756A
AUXILIARY POSITION CIRCUIT

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DRAWING ISSUE: 1 SAK JFF KFJ HW

1

PBX SYSTEMS
NO. 756A
AUXILIARY POSITION CIRCUIT (2)

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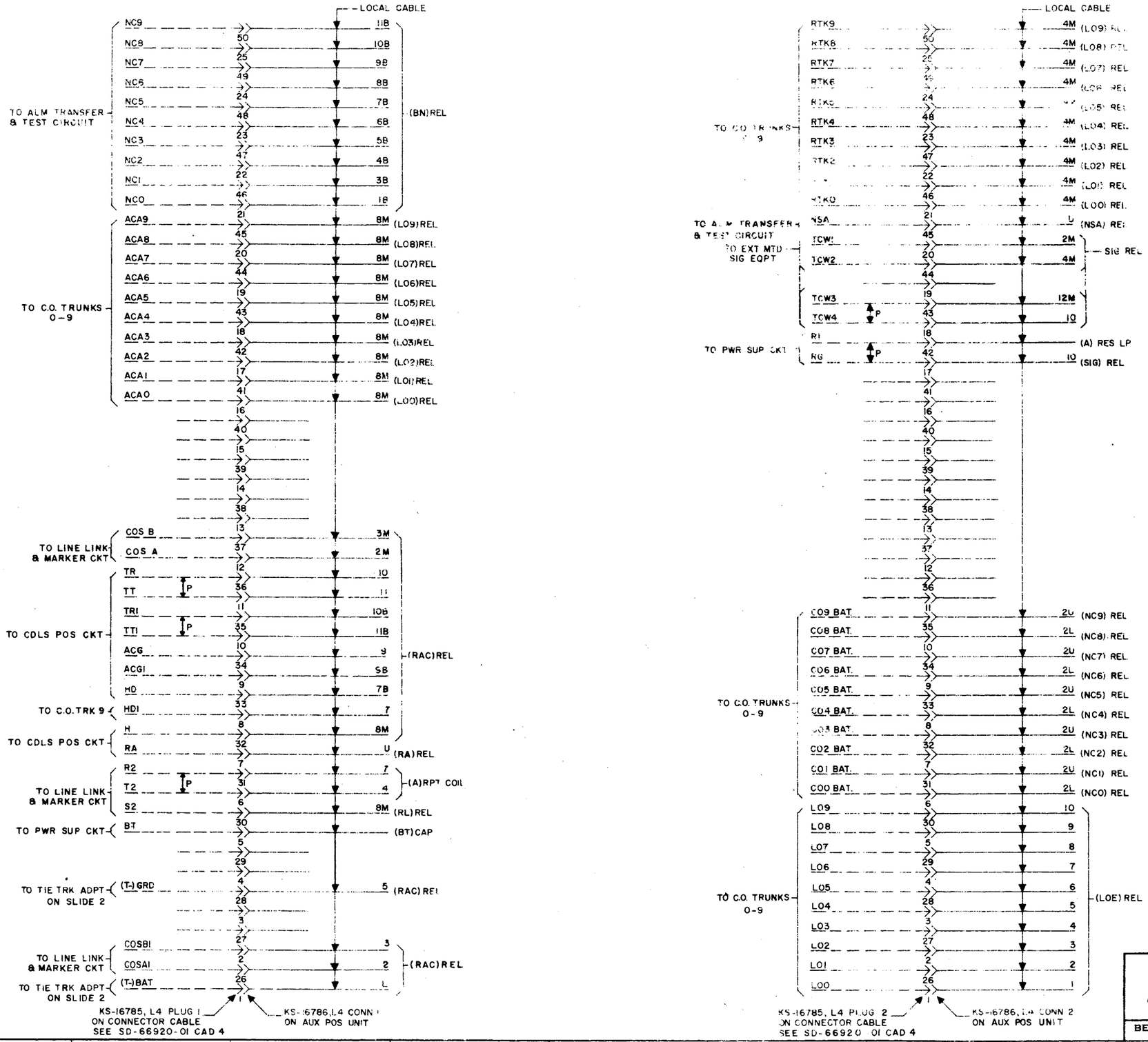
CAD 1

(FOR APP FIG 1)
REMOTE TRUNK ANSWERING FEATURE



DRAWING ISSUE

1	RKU, RFF, KFJ
2D	EWE, SAK, KFJ
4D	ROZ, PJS, RHP

4

AUXILIARY POSITION CIRCUIT (2) SD-66910-01-GI

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SHEET INDEX

SHEET NO.	CONTENTS
1	SHEET INDEX SUPPORTING INFORMATION CIRCUIT NOTES INFORMATION NOTES OPTION INDEX
2	FS 1 BUSY VERIFICATION AUXILIARY TRUNK CIRCUIT
3	APP FIG. 1 SC 1 - DIAL TONE SC 2 - CALLED STATION IDLE SC 3 - CALLED STATION BUSY WITH OR WITHOUT A TRUNK CAMPED-ON SC 4 - ATTENDANT RELEASES SC 5 - VERIFICATION DENIED MESSAGE REGISTRATION PULSE ON SLEEVE.
4	CIRCUIT REQUIREMENTS TABLES CAD 1

INFORMATION NOTES:

301. BUSY VERIFICATION CIRCUIT IS FUSED THROUGH ATTENDANT TRUNK 2.

CIRCUIT NOTES:

101.

DESIG	FUSE AMP	POTENTIAL	ONE PER	TERM DESIG
AT		-48V PROTECTED		

BATTERY SYMBOL: -48V SEE NOTE 301

VOLTAGE RANGE: 45-52V

102.

FEATURE OR OPTION	PROVIDE		
	APP FIG.	APP OR WRG	QUANTITY
WARNING TONE GENERATOR		Z	1 PER CKT
INDICATION OF INCOMPLETED VERIFICATION.		W	1 PER CKT
WHEN PBX IS ALSO EQUIPPED WITH INWARD RESTRICTION CIRCUIT		V	1 PER CKT

103.

NETWORK VALUES		
NETWORK NO.	RESISTANCE IN OHMS	CAPACITANCE IN UF

104.

RECORD OF 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	
3D	X OR Y	Y		X		Y	
3D	W	NONE	102 & 105	W			
4D	V	NONE	102 & 106	V			
6D	S	T		S		T	

105. PROVIDE OPTION W WHEN PBX IS EQUIPPED FOR STATION MESSAGE REGISTRATION.

106. PROVIDE OPTION V WHEN PBX IS EQUIPPED WITH INWARD RESTRICTION CIRCUIT.

OPTION INDEX

APP OR WRG	LOCATION
Z	2G5, 2G6, 2H4
Y	2H2
X	2H2
W	2C7, 2C8, 2F7
V	2C2
T	APP FIG. 1, 2C2, 2C3
S	APP FIG. 1, 2C2, 2C3

SUPPORTING INFORMATION

CATEGORY	NO.
FEATURE CABLE EQUIPMENT DRAWING	SD-66920-01 J58829AJ-( )

DWG ISSUE	EE OR CD ISSUE	DATE ISSUED	DRAWN	APPD
1	1	12-4-63	RKU WPA WPA	AEK RAV RAV H
2D	2D	3-31-64	JFF JMD	AEK RAV KFJ H4
3D	2D APP 1D	8-4-64	GP SAK RHB	AEK RAV KFJ H4
4D	2D APP 2D	12-30-64	WPA SAK EWS	GAM RAV KFJ
5A	2D APP 3A	10-13-65	JJH RKU RCL	HEDE RAV GFH
6D	2D APP 4D	10-20-67	ROZ RJS RCL	JJM LAH RHP

6

SD-66911-01-1 IJ07

PBX SYSTEMS
NO. 756A
BUSY VERIFICATION
AUXILIARY TRUNK CIRCUIT

(BY VERIF AUX TRK CKT) (2)

AT&TCO STANDARD

SD-66911-01-1
4 SHEETS

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FS 1
BUSY VERIFICATION AUXILIARY TRUNK CIRCUIT

LINE LINK & MARKER CKT

ATTENDANT TRK CKT 2 ARR FOR USE WITH BUSY VERIF AUX TRK CIRCUIT

DRAWING ISSUE		
1	SAK	
2D	WPA, JAF, KFJ	
3D	G.P. SAK KFJ	
4D	WPA SAK KFJ	
5A	JJH RKU GFH	
6D	ROZ PJS RHP	

IR(A-J) IN RESTRICTION CKT

RINGING CIRCUIT (INTERRUPTER)

CORDLESS POSITION CKT

STA MR PULS & SUR CKT

CENTRAL OFFICE TRK "O"

402A TONE GENERATOR

CORDLESS POSITION CIRCUIT

RINGING CKT (INTERRUPTER)

BUSY VERIFICATION AUXILIARY TRUNK CIRCUIT (2)

SD-66911-01-2

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APP FIG. 1

RELAY

DESIG	BY		MC		BV		RS		RT		ST		P				SL		HM		BVT		MKBV		DESIG
CODE	AJ15		AJ56		AJ15		AJ15		AJ58		AK8						AK6				AK35				CODE
OPTION																									OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	EBM		E M	2H2	EBM		EBM	a	EM	2C4	M	2C7					BM	2B5					M	2D2	12
11	EBM		BM	2B3	EBM	2E8	EBM	2B6	B		M	2D6					BM						EBM	2F5	11
10	EBM	2B7	M	2C2	EBM	2D2	EBM	2B7	M		EBM						BM						EBM		10
9	EBM	2H2	PMEB	2F5	EBM	2C3	EBM		BM		EMB	2F7					BM						EMB		9
8	EMB	2H7	EMB	2H7	EMB	2H3	EMB				EM	2F7					BM						EMB		8
7	EBM	2B4	B	2C4	EBM	2C	EBM		B																7
6	EMB	2B6	M	2G2	EMB	2D6	EMB	b																	6
5	EMB	2C8	B	2B5	EMB	2C5	EMB	2H2	B	2H2			EM						BM		EMB	2G3			5
4	EBM	2A3	PEMB	2G2	EBM	2E7	EBM		M				B						BM	2E6	EMB				4
3	EBM	2D4	M		EBM	2F5	EBM	2D4	BM	2C2			EBM						EM	2D4	EBM				3
2	EBM	2C2	PBEM	2E2	EBM	2H3	EBM	2A3	M	2B7			EBM						BM	2C8	EBM				2
1	EBM	2F7	M	2C7	EBM	2E5	EBM	2B4	M	2B6			M	2G2					BM	2E5	M	2H3			1
COIL		2G3		2G3		2D5		2H3		2C4		2C8		2B5				2C3		2E6		2H7		2D3	COIL
							a Ⓣ	2C2																	
							b Ⓢ	2C2																	

CAPACITOR

DESIG	LOC	CODE
T	2A3	
R	2B4	437E
A	2B5	542U

DIODE

DESIG	LOC	CODE
A	2B5	446F
B	2A5	446F

NETWORK

DESIG	LOC	CODE
Ⓩ TONE GENERATOR	2G5	402A

RESISTOR

DESIG	LOC	CODE
NT	2E2	18 AG
Ⓢ SLI	2C2	
SL	2C3	19DU
Ⓣ SL	2B3	18U
T	2H4	145C, 442

SC 1
DIAL TONE
SEE NOTE 1

- DIAL BACK KEY (CDLS POS)
- NT (CDLS POS)
- ST
- MKBV
- BV
- THMO 6 (MKR)
- OUT (ATDN TRK) — GRD APPLIED TO TONE GENERATOR (Z OPTION)

REG RELEASE

MKR ACTION
- SMR -(MKR)
- THMO 6 (MKR)
- THM (-8,-9) (MKR)
- HM
- ST
- SL

MKR ACTION

MKR RELEASES
- MKBV

DIAL TONE

SC 2
CALLED STATION IDLE

ATTENDANT DIALS STATION
- DC (REG)

MKR ACTION
- RC (A-E)- (MKR)
- RV (REG)
- P
- MC
- NT (MKR) — P
- HMT – (MKR)
- RS
- SL
- RL-A (MKR)
- MC
- NT (MKR)

RINGING CALLED STATION
- SWITCH HOOK (STATION)
- RT
- RS

ATTENDANT CONNECTED TO CALLED STATION VIA ATTENDANT TRUNK 2 AND BUSY VERIFICATION CIRCUIT

SC 3
CALLED STATION BUSY
WITH OR WITHOUT A TRUNK CAMPED-ON

ATTENDANT COMPLETES DIALING INTO REG
- DC (REG)

MKR ACTION
- RC(A-E) - (MKR)
- RV (REG)
- P
- MC
- NT (MKR) — P
- CO- (MKR)
- BY
- MKBV — SL

MKR ACTION
- CON- (MKR)
- THMO6 (MKR) — HM
- BVT

MKR ACTION
- SMT – (MKR)

SO
- HM
- THMO 6 (MKR)

WARNING TONE TO BUSY STATION (Z OPTION)
- HMT (MKR)
- RS
- MKBV

MKR ACTION
- RL-A (MKR)
- MC
- NT (MKR)

7.5 IPM INTERRUPTER
- BVT

WARNING TONE TO BUSY STA. (Z OPTION)

ATTENDANT CONNECTED TO BUSY STATION VIA ATTENDANT TRUNK 2 AND BUSY VERIFICATION CIRCUIT

SHEET NOTES

1. SC 1 ASSUMES THAT THE ATTENDANT HAS OBTAINED DIAL TONE OVER ATTENDANT TRUNK NO. 2

Ⓦ SC5
VERIFICATION DENIED MESSAGE REGISTRATION PULSE ON SLEEVE

MKR ACTION
- HMK(A,B)(MKR)
- CO-(MKR)
- H(MR)
- BY
- ST
- FB(CDLS POS)

MKR ACTION

MKR RELEASES

120 IPM TONE TO ATND

SC 4

ATTENDANT RELEASES
- PU KEY (CLDS POS)
- AC (ATND TRK)
- ON (ATND TRK)
- ST (IF OPERATED)
- BV
- MKBV (IF OPERATED)
- RS (IF OPERATED)
- RT (IF OPERATED)
- SL (IF OPERATED)
- BY
- BVT — GRD REMOVED FROM TONE GENERATOR (Z OPTION)

DRAWING ISSUE

1	R WP
2D	KFJ WPA KFJ
3D	GP SAK KFJ
4D	WPA SAK KFJ
5A	JJH RKU GFH
6D	ROZ PJO RHP

SD-66911-01-3

BUSY VERIFICATION AUXILIARY TRUNK CIRCUIT (2)

SD-66911-01-3

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CIRCUIT REQUIREMENTS

NO. 756A BUSY VERIFICATION TRUNK CIRCUIT (DIAL VERIF TRK)

APPARATUS DESIG	APPARATUS CODE	APPARATUS OPT	APPARATUS FIG	MECH REQT BSF FIG	MECH REQT CONT PRES	MECH REQT ARM TRVL	CIRCUIT PREPARATION BLOCK OR INSULATE	CIRCUIT PREPARATION TEST CLIP DATA CONN BAT	CIRCUIT PREPARATION TEST CLIP DATA CONN GRD	TEST SET PREP	SEF TEST NOTE	DIRECT CURRENT FLOW REQT TEST WDG	DIRECT CURRENT FLOW REQT TEST FOR	DIRECT CURRENT FLOW REQT AFTER SOAK MA	DIRECT CURRENT FLOW REQT TEST MA	DIRECT CURRENT FLOW REQT READJ MA	REMARKS
BV	AJ15		1	249			(HM) O 3(BV)		U (BV)	G			0		42.5	40.5	
BVT	1/2 AK35		1	202					1L (BVT)	G			0 H		31.5 4.4	30 4.2	MOUNTED WITH MKBV
BY	AJ15		1	249			(MC) NO		U (BY)	G			0		42.5	40.5	
HM	1/2 AK6		1	2			3 (BV)		1L (HM)	G			0		29	27.5	MOUNTED WITH SL
MC	AJ56		1	413			4 (MC)		U (MC)	G			0		57	54.5	
MKBV	1/2AK35		1	202			(HM) O		1U(MKBV)	G			0		12.4	11.8	MOUNTED WITH BVT
P	1/2 AK8		1	204			5 (MC) 12 (SL) 1 (P)	2L (P)	1L (P)	B/G			0		17	16	MOUNTED WITH ST
RS	AJ15		1	249			(MC) NO		U (RS)	G			0		42.5	40.5	
RT	AJ58		1	308			7 (MC) (RS) NO	1L (RT)	1U (RT)	B/G		P P P	0 0 NO		28 29.5 20	26.5 28 21.5	EM CONTACTS NEED ONLY TO MAKE
									2U (RT)	G		S	0		19	18	
SL	1/2 AK6		1	2			(RS) O		1U (SL)	G			0		29	27.5	MOUNTED WITH HM
ST	1/2 AK8		1	204			(HM) O		1U (ST)	G			0 R		9.1 1.7	8.7 1.8	MOUNTED WITH P

DRAWING ISSUE

SUPERSEDES ISS 1	
2D	WPA WFF KFJ HW
3D	GP SAK KFJ
4D	GP SAK KFJ
5A	JJH RKJ GFH
6D	ROZ RJS RHP

BUSY VERIFICATION AUXILIARY TRUNK CIRCUIT

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CAD 1

TO ATND TRK 2
- BAT — 2L (RT) REL
- GRD — 50 — 2 (BV) REL
- G2 — 25 — 11B (BV) REL
- GI — 49 — P — 11 (BV) REL
- T — 24 — 2B (RS) REL
- R — 48 — P — 12 (SL) REL
- S — 23 — 10B (BV) REL
- 47
- HLD — 22 — 2 (HM) REL

TO CDLS POS CKT
- ST — 46 — P — 1U (ST) REL
- AT — 21 — 2 (RT) REL
- AR — 45 — P — 1 (RT) REL
- FB — 20 — 8 (ST) REL
- BT — 44 — 1 (BY) REL
- 19 — (W)
- 43
- 18
- 42

TO RINGING CKT (INTERRUPTER)
- RI — 17 — 7 (MC) REL
- RG — 41 — P — 11 (MC) REL
- TM — 16 — 8B (MC) REL
- FT — 40 — 9M (ST) REL
- 15 — (W)
- 39
- 14
- 38
- 13
- 37
- 12
- 36
- 11
- 35

TO LINE, LINK & MARKER CKT
- NN — 10 — (V) — 9B (BV) REL
- BVS — 34 — (W) — 1M (MC) REL

TO STA MSG REG CKT
- BY — 9 — 6 (MC) REL
- RLSE — 33 — 4M (MC) REL
- ME — 8 — 9M (MC) REL
- RSE — 32 — 12 (MC) REL
- U6 — 7 — 4B (BV) REL

TO ATND TRK 2
- U6 — 31 — P — 4 (BV) REL
- 1TO7 — 6 — 3 (BV) REL

TO LINE, LINK & MARKER CKT
- 1TO7 — 30 — P — 3B (BV) REL
- ST90-1 — 5 — 11 (MKBV) REL
- ST90 — 29 — P — 11B (MKBV) REL
- NT — 4 — 2 (MC) REL
- LK — 28 — 12 (MKBV) REL
- UO — 3 — 4 (HM) REL
- S — 27 — 10 (BV) REL
- R — 2 — 7 (BY) REL
- T — 26 — P — 4 (BY) REL
- 1

KS 16785, L4 PLUG

KS 16786, L4 CONN

DRAWING ISSUE

SUPERSEDES ISS 1	
2D	WPA WFF KFJ
3D	GP SAK KFJ
4D	WPA SAK KFJ
5A	JJH RKJ GFH
6D	ROZ RJS RHP

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BUSY VERIFICATION AUXILIARY TRUNK CIRCUIT (2)

BELL TELEPHONE LABORATORIES INCORPORATED

DWG SIZE 6S

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CAD 11	STATION MESSAGE REGISTER FEATURE	G18	10 11 11 13 13 15	G18
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SUPPORTING INFORMATION

CATEGORY	NO.
EQUIPMENT DWGS	
756A EQPT & PLUG-IN CABLE	J-58829A
NO. 1 SLIDE EQPT	J-58829B
NO. 2 SLIDE EQPT	J-58829C
NO. 4 SLIDE EQPT	J-58829E
NO. 5 SLIDE EQPT	J-58829F
NO. 6 SLIDE EQPT	J-58829G
756A PBX CABLING	ED-65880-10
756A PBX CABLING	ED-65880-11
EQUIPMENT DESIGN REQ	J-58829
LINE, LINK AND MARKER	SD-65741-01
PBX CABLING DIAGRAM	SD-65746-01
CO TRK	SD-65752-01
ATT TRK	SD-65753-01
CORDLESS POSITION	SD-65757-01
ALARM, TRANS AND TEST	SD-66796-01
STATION CONTROLLED DIAL CONF	SD-66902-01
ATT CONTROLLED DIAL CONF	SD-66908-01
STA DIAL TRANS CONTROLLER CKT	SD-66909-01
AUX POS CKT FOR REMOTE TRK ANS	SD-66910-01
BUSY VERIF	SD-66911-01
STA DIAL TRANS TRK CKT	SD-66921-01
POWER SUPPLY	SD-81326-01
INWARD RESTRICTION	SD-5E003-01
STATION MESSAGE REGISTER	SD-5E021-01
MAKE BUSY AND BUSY DISPLAY	SD-5E029-01

SHEET INDEX NOTES

1. WHEN CHANGES ARE MADE IN THIS DRAWING, ONLY THOSE SHEETS AFFECTED WILL BE REISSUED.
2. 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.
3. THE ISSUE NUMBER ASSIGNED TO A CHANGED OR NEW SHEET WILL BE THE SAME ISSUE NUMBER AS THAT OF THE SHEET INDEX.
4. SHEETS THAT ARE NOT CHANGED WILL RETAIN THEIR EXISTING ISSUE NUMBER.
5. THE LAST ISSUE NUMBER OF THE SHEET INDEX IS RECOGNIZED AS THE LATEST ISSUE NUMBER OF THE DRAWING AS A WHOLE.

DWG ISSUE	CD ISSUE	DATE ISSUED	DRAWN	APPD
1	1	5-8-64	RKU JFF RWC	RAV KFJ
2B	1 APP 2B	12-30-64	WAM SAK	JMD RAV KFJ
3C	1 APP 2D	3-24-65	DWY SAK JFF	— RAV GFH
4D	1 APP 3D	8 17 65	WGN SAK EWS	GAM RAV GFH
5D	1 APP 4D	8 17 65	DWY SAK RCL	RRS RAV GFH
6AC	1 APP 5AC	9-8-65	LJC SAK RWC	RWC RAV GFH
7D	1 APP 6D	11-9-65	JJH SAK	RWK RAV GFH
8AC	1 APP 7AC	11-9-65	JJH SAK	JMD RAV GFH
9D	1 APP 8D	6-23-66	PJS SAK	RCL LAH GFH
10D	1 APP 9D	6-23-66	PJS SAK	EWS LAH GFH
11C	1 APP 10D	11-25-66	TEF PJS EWS	LAH RHH
12D	1 APP 11D	5-22-67	JJR SAK RCL	LAH RHH
13D	1 APP 12D	5-22-67	BCM PJS ARR	ARR LAH RHH
14D	1 APP 13D	11-14-67	PMC RCL RCL	RCL LAH RHH
15D	2D	11-14-67	PMC RCL	RCL LAH RHH

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IJ07

PBX SYSTEMS

NO. 756A

FEATURE CABLING DIAGRAM

(2)

AT & T CO STANDARD

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25 SHEETS

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PART OF LEAD INDEX

DESIG	FROM	TO	LOC
A(BAT)	PWR SUP CKT	STA MSG REG	18
A(GRD)	PWR SUP CKT	STA MSG REG	18
AR	CORDLESS POS CKT	BUSY VERIFICATION	1,6
AT	CORDLESS POS CKT	BUSY VERIFICATION	1,6
AAA	CO TRK	STA DIAL TR CONT CKT	10,11, 12,14
AAB	CO TRK	STA DIAL TR CONT CKT	10,11, 12,14
ACG	CORDLESS POS CKT	AUX POS UNIT	8
ACG1	CORDLESS POS CKT	AUX POS UNIT	8
ACA-(A)	CORDLESS POS CKT	ATTENDANT CONT CONF	7
ACA-(B)	CORDLESS POS CKT	ATTENDANT CONT CONF	7
ACAO-ACA9	CO TRK	AUX POS UNIT	8
BT	CORDLESS POS CKT	BSY VERIF	6
BT	PWR SUP. CKT	AUX POS UNIT	8
BT	RINGING OR POWER CKT	STATION CONT CONF	3
BY	LINE,LINK & MKR CKT	BUSY VERIFICATION	1,6
BAT	ATND TRK 2	BUSY VERIFICATION	1,6
BAT. -T	FUSE PANEL	STA OR ATND CONT CONF	7
BVS	BUSY VERIFICATION	STA MSG REG	6,18
BZO-9	CORDLESS POS CKT	STA DIAL TR CONT CKT	12
CG	CO TRK	STA DIAL TR CONT CKT	10,11, 12,14
CO	LINE,LINK & MKR CKT	CONF CKT	7
CR	RINGING CKT	STA DIAL TR CONT CKT	12
CCC	RINGING CKT	STA DIAL TR TRK CKT	13
CCC	LINE,LINK &MKR CKT	STA OR ATND CONT CONF	3
C(BAT.)	FUSE PANEL	STA DIAL TR CONT CKT	13
C(BAT.)	FUSE PANEL	STA DIAL TR CONT CKT-SW9	13
C(GRD)	FUSE PANEL	STA DIAL TR CONT CKT-SW9	13
C(GRD)	FUSE PANEL	STA DIAL CONT CKT	13
COD	LINE LINK & MKR CKT	STA MSG REG	18
COSA	LINE,LINK & MKR CKT	AUX POS UNIT	2
COSB	LINE,LINK & MKR CKT	AUX POS UNIT	2
COSA1	LINE,LINK & MKR CKT	AUX POS UNIT	1
COSB1	LINE,LINK & MKR CKT	AUX POS UNIT	1
COO-C09BAT.	CO TRK	AUX POS UNIT	8
D8	LINE,LINK & MKR CKT	STA DIAL TR TRK CKT	13
D8	LINE,LINK & MKR CKT	STA OR ATND CONT CONF	7
D9	LINE,LINK & MKR CKT	STA DIAL TR TRK CKT	13
D9	LINE,LINK & MKR CKT	STA CONT CONF	3
DB	LINE,LINK & MKR CKT	STA DIAL TR TRK CKT	13
DC	LINE,LINK & MKR CKT	STA DIAL TR TRK CKT	13
DE	LINE,LINK & MKR CKT	STA DIAL TR TRK CKT	13
DG	LINE,LINK & MKR CKT	STA DIAL TR TRK CKT	13
DO	LINE,LINK & MKR CKT	STA DIAL TR TRK CKT	13
DO	LINE,LINK & MKR CKT	STA CONT CONF	3
ER	TWO WAY CO TRK CKT	STA DIAL TR CONT CKT	10,11 12,14
EXT	ALM TR & TST CKT	STA MSG REG	18
F2	RINGING OR POWER CKT	ATND CONT CONF	3
FB	CORDLESS POS CKT	BSY VERIF	6

DESIG	FROM	TO	LOC
FF	RINGING CKT	STA DIAL TR CONT CKT	12
FR	CO TRK	STA DIAL TR CONT CKT	10,11, 12,14
FT	RINGING CKT	STA DIAL TR TRK CKT	13
FT	STA. DIAL TR.	BSY VERIF	4,6
FF1	RINGING OR POWER CKT	STA MSG REG	18
FF2	RINGING OR POWER CKT	ATND CONT CONF	3
FL1	CO TRK CKT	STA DIAL TR CONT CKT	10,11, 12,14
FL2	CO TRK CKT	STA DIAL TR CONT CKT	10,11, 12,14
FFE	LINE,LINK & MKR CKT	STA DIAL TR TRK CKT	13
FFO	LINE,LINK & MKR CKT	STA DIAL TR TRK CKT	13
GI	ATND TRK 2	BUSY VERIFICATION	1,6
G2	ATND TRK 2	BUSY VERIFICATION	1,6
GR	TWO-WAY CO TRK CKT	STA DIAL TR CONT CKT	10,11, 12,14
GRD	ATND TRK 2	BUSY VERIFICATION	1,6
GRD-1	FUSE PANEL	STA OR ATND CONT CONF	7
H	CO TRK	STA MSG REG	14,19
H	CORDLESS POS CKT	AUX POS UNIT	8
HA	LINES,LINK & MKR CKT	INWARD RESTRICTION	16
HB	LINES,LINK & MKR CKT	INWARD RESTRICTION	16
HC	LINES,LINK & MKR CKT	INWARD RESTRICTION	16
HD	LINES,LINK & MKR CKT	INWARD RESTRICTION	16
HE	LINES,LINK & MKR CKT	INWARD RESTRICTION	16
HF	LINES,LINK & MKR CKT	INWARD RESTRICTION	16
HD	CORDLESS POS CKT	AUX POS UNIT	8
HD1	CO TRK	AUX POS UNIT	8
HLD	ATND TRK 2	BUSY VERIFICATION	1,6
HM-5	LINE,LINK & MKR CKT	STA CONT CONF	7
HME	MAKE BUSY	STA DIAL TRNF	13
HMO	MAKE BUSY	STA DIAL TRNF	13
IR2-IR7	LINE,LINK & MKR CKT	INWARD RESTRICTION	16
IR (BAT)	PWR SUP CKT	INWARD RESTRICTION	16
IR (GRD)	PWR SUP CKT	INWARD RESTRICTION	16
IT07	LINE,LINK & MKR CKT	BUSY VERIFICATION	6
IT07	ATND TRK 2	BUSY VERIFICATION	6
IT5	LINE,LINK & MKR CKT	STA CONT CONF	3
IT	MAKE BUSY	CO TRK	14
ITB	MAKE BUSY	CO TRK	14
ITT	MAKE BUSY	CO TRK	14
LL	CO TRK CKT	STA DIAL TR CONT CKT	10,11,12
LK	LINE,LINK & MKR CKT	BUSY VERIFICATION	6
L00-L09	CO TRK	AUX POS UNIT	8
M20-M79	LINE,LINK & MKR CKT	STA MSG REG	20
MBTE	MAKE BUSY	STA DIAL TR CONT CKT	13
MBTO	MAKE BUSY	STA DIAL TR CONT CKT	13
MC	CO TRK CKT	STA DIAL TR CONT CKT	10,11,12
ME	LINE,LINK & MKR CKT	BUSY VERIFICATION	1,6
MON 1	LINE,LINK & MKR CKT	CONF CKT	7
MON 2	LINE,LINK & MKR CKT	CONF CKT	7
MS	MKR	TIE TRUNK APLQ	17
MTR	CO TRK CKT	STA DIAL TR CONT CKT	10,11,12
MRI- MRI4	LINE,LINK & MKR CKT	STA MSG REG	18
NA	CO TRK CKT	608A OR 608D SWBD	14
NT	LINE,LINK & MKR CKT	BUSY VERIFICATION	1,6
NCO-NC9	ALM TR & TST CKT	AUX POS UNIT	8
NSA	ALM TR & TST CKT	AUX POS UNIT	8
C-	MKR	TIE TRK	17
OTG	LINE,LINK & MKR CKT	STATION CONT CONF	7
OT1-5	LINE,LINK & MKR CKT	ATTENDANT CONT CONF	7
PA	CO TRK CKT	STA DIAL TR CONT CKT	10,11, 12
PB	CO TRK CKT	STA DIAL TR CONT CKT	10,11, 12
R	CONF CKT.	SWBD	7
R	LINE,LINK & MKR CKT	BUSY VERIFICATION	6
R	ATND TRK 2	BUSY VERIFICATION	6
RO,R1	MKR	TIE TRK APLQ	17
R1	MKR	TIE TRK	17
R1	RINGING CKT (INT)	BUSY VERIFICATION	6

DESIG	FROM	TO	LOC
R1	RINGING OR POWER CKT	STA OR ATND CONT CONF	7
R1	PWR SUP. CKT	AUX POS UNIT	8
R1	RINGING CKT	STA DIAL TR TRK CKT	13
R2	LINE,LINK & MKR CKT	AUX POS UNIT	2
R2	LINE,LINK & MKR CKT	CONF CKT.	7
R2	MKR	TIE TRK	17
RA	CORDLESS POS CKT	AUX POS UNIT	8
R1	CO TRK	STA MSG REG	14,19
R2	CO TRK	STA MSG REG	14,19
RCO,RC1	MKR	TIE TRK APLQ	17
RG	PWR SUP. CKT	AUX POS UNIT	8
RG	RINGING CKT (INT)	BUSY VERIFICATION	6
RG(GRD)	RINGING CKT	STA DIAL TR TRK CKT	13
RG OR RING G	RINGING OR POWER CKT	STA OR ATND CONT CONF	7
RS	CO TRK CKT	STA DIAL TR CONT CKT	10,11, 12,14
R-(A)	CORDLESS POS CKT	ATND CONT CONF	7
RBA	CO TRK CKT	STA DIAL TR CONT CKT	10,11, 12,14
RBS	CO TRK CKT	STA DIAL TR CONT CKT	10,11, 12,14
RCA	CO TRK CKT	STA DIAL TR CONT CKT	10,11, 12
RGB	LINE,LINK & MKR CKT	STA DIAL TR CONT CKT	12
RGC	LINE,LINK & MKR CKT	STA DIAL TR CONT CKT	12
RL	MKR	TIE TRK APLQ	17
RLO,RLI	MKR	TIE TRK APLQ	17
RLR	CO TRK CKT	STA DIAL TR CONT CKT	10,11,12,14
RSA	LINE, LINK & MKR CKT	STA MSG REG	18
RSB	LINE, LINK & MKR CKT	STA MSG REG	18
RSE	LINE,LINK & MKR CKT	STA DIAL TR TRK CKT	13
RSE	LINE,LINK & MKR CKT	BUSY VERIFICATION	6
RS(E)	LINE,LINK & MKR CKT	STA OR ATND CONT CONF	3
RSO	LINE,LINK & MKR CKT	STA DIAL TR TRK CKT	13
R1-1	LINE,LINK & MKR CKT	STA OR ATND CONT	7
RLS	LINE,LINK & MKR CKT	INWARD RESTRICTION	16
RLSE	LINE,LINK & MKR CKT	BUSY VERIFICATION	1,6
RLSE	LINE,LINK & MKR CKT	STA DIAL TR TRK CKT	13
RLS(E)	LINE,LINK & MKR CKT	STA OR ATND CONT CONF	3
RLSO	LINE,LINK & MKR CKT	STA DIAL TR TRK CKT	13
RTKO-RTK9	CO TRK	AUX POS UNIT	8,14
S	CONF CKT	SWBD	7
S	LINE,LINK & MKR CKT	BUSY VERIFICATION	6
S	ATND TRK 2	BUSY VERIFICATION	6
S	LINE,LINK, & MKR CKT	INWARD RESTRICTION	15,16
SA	LINE,LINK, & MKR CKT	INWARD RESTRICTION	15,16
S1	LINE,LINK, & MKR CKT	STA OR ATND CONT CONF	7
S1	CO TRK	STA MSG REG	14,18
S2	LINE,LINK, & MKR CKT	CONF CKT	7
S2	LINE,LINK, & MKR CKT	AUX POS UNIT	2
S2	MKR	TIE TRK	17
SG	CO TRK CKT	STA DIAL TR CONT CKT	10,11,12,14
SL	STA CONT CONF	608A OR 608D	7
SR	CO TRK CKT	STA DIAL TR CONT CKT	10,11,12,14
SR	CO TRK	STA MSG REG	14,18
ST	CORDLESS POS CKT	BUSY VERIFICATION	1,6
SL-(A)	CORDLESS POS CKT	ATND CONT CONF	7
SL-(B)	CORDLESS POS CKT	ATND CONT CONF	7
SMO9	LINE,LINK & MKR CKT	STA DIAL TR CONT CKT	12
SMTA	LINE,LINK & MKR CKT	STA DIAL TR CONT CKT	13
SMTA	LINE,LINK & MKR CKT	STA DIAL TR CONT CKT	13
SS1	CO TRK	STA MSG REG	14,18
SS2	CO TRK	STA MSG REG	14,18
ST90	LINE,LINK & MKR CKT	BUSY VERIFICATION	6
ST90-1	LINE,LINK & MKR CKT	BUSY VERIFICATION	6
T	LINE,LINK & MKR CKT	BUSY VERIFICATION	6
T	ATND TRK 2	BUSY VERIFICATION	6
T	CONF. CKT	SWBD	7
T1	MKR	TIE TRK	17
T2	LINE,LINK & MKR CKT	CONF. CKT.	7
T2	LINE,LINK & MKR CKT	AUX POS UNIT	2
T2	MKR	TIE TRK	17
TL	CO TRK CKT	STA DIAL TR CONT CKT	10,11, 12

DESIG	FROM	TO	LOC
TM	RINGING CKT (INT)	BUSY VERIFICATION	1,6
TR	CORDLESS POS CKT	AUX POS UNIT	8
TT	CORDLESS POS CKT	AUX POS UNIT	8
TT	CO TRK	STA DIAL TR CONT CKT	10,11, 12,14
T-(A)	CORDLESS POS CKT	ATND CONT CONF	7
TBA	CO TRK	STA DIAL TR CONT CKT	10,11, 12,14
TBS	CO TRK	STA DIAL TR CONT CKT	10,11, 12,14
TCA	CO TRK	STA DIAL TR CONT CKT	10,11, 12
TDMO,TDM1	MKR	TIE TRK APLQ	17
TFA	LINE,LINK & MKR CKT	STA DIAL TR CONT CKT	12
TFB	LINE,LINK & MKR CKT	STA DIAL TR CONT CKT	12
TKOO,TKO1	MKR	TIE TRK APLQ	17
TPO-9	TWO-WAY CO	STA DIAL TR CONT CKT	10,11 12,14
TR1	LINE,LINK & MKR CKT	STA DIAL TR CONT CKT	13
TR1	CORDLESS POS CKT	AUX POS UNIT	8
TR8	LINE,LINK & MKR CKT	STA DIAL TR CONT CKT	12
TR9	LINE,LINK & MKR CKT	STA DIAL TR CONT CKT	12
TRA	LINE,LINK & MKR CKT	STA DIAL TR CONT CKT	12
TRB	LINE,LINK & MKR CKT	STA DIAL TR CONT CKT	12
TRT	LINE,LINK & MKR CKT	STA DIAL TR CONT CKT	13
TRO	LINE,LINK & MKR CKT	STA DIAL TR CONT CKT	13
PARALLEL LINK CONNECTIONS T,R, & S	LINE,LINK & MKR CKT -SW0	STA DIAL TR CONT CKT-SW9	13
TTI	CORDLESS POS CKT	AUX POS UNIT	8
T1-1	LINE,LINK & MKH CKT	STA OR ATND CONT CONF	7
TCW1-TCW4	EXT MTD SIG EQPT	AUX POS UNIT	8
T(GRD)	LINE,LINK & MKR CKT	STA DIAL TR TRK CKT	13
TL-(A)	CORDLESS POS CKT	ATND CONT CONF	7
TL-(B)	CORDLESS POS CKT	ATND CONT CONF	7
TR1A	LINE,LINK & MKR CKT	STA DIAL TR CONT CKT	13
TROA	LINE,LINK & MKR CKT	STA DIAL TR CONT CKT	13
(T-)BAT.	TIE TRK ADPT MTD SL2	AUX POS UNIT	2
(T-)GRD	TIE TRK ADPT MTD SL2	AUX POS UNIT	2
T-BAT	MKR	TIE TRK	17
T-GRD	MKR	TIE TRK	17

DRAWING ISSUE

SUPERSEDES ISS 5D HW

9D FJS 5AK GFH

10D FJS 5AK GFH

11D TEF FJS RHF

12D JJR 5AK RHF HW

13D BCM NJS RHM

15D PMO 6B5 RHP

15

FEATURE CABLING DIAGRAM (2) SD-66920-01-A2

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PART OF LEAD INDEX

DESIG	FROM	TO	LOC
TI(BAT)	LINE,LINK & MKR CKT	STA DIAL TR TRK CKT	13
TO(BAT)	LINE,LINK & MKR CKT	STA DIAL TR TRK CKT	13
U	CO TRK	STA DIAL TR CONT CKT	10,11, 12,14
U0-U9	LINE,LINK & MKR CKT	INWARD RESTRICTION	16
U6	LINE,LINK & MKR CKT	BUSY VERIFICATION	6
U6	ATND TRK 2	BUSY VERIFICATION	6
U0	LINE,LINK & MKR CKT	BUSY VERIFICATION	6
Z BAT	MKR	TIE TRK APLQ	17
Z GRD	MKR	TIE TRK APLQ	17

DESIG	FROM	TO	LOC

DESIG	FROM	TO	LOC

OPTION INDEX

APP OR WRG.	LOCATION
Z	CAD 5&6
Y	CAD 1
X	CAD 1

DRAWING ISSUE		
9D	PJS SMK GFH	HW
12D	JJR SMK RHF	HW
15D	PMC PJS RHP	PM

FEATURE CABLING DIAGRAM (2) SD-66920-01-A3

BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-66920-01-A3

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CIRCUIT NOTES:

101.

DESIG	FUSE AMP	POTENTIAL	ONE PER

102.

FEATURE OR OPTION	PROVIDE		
	APP FIG.	APP OR WRG	QUANTITY
MAKE BUSY FEATURE		Z	1 PER PBX

103.

NETWORK VALUES		
NETWORK NO.	RESISTANCE IN OHMS	CAPACITANCE IN UF

104.

RECORD OF 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	
12D	Z	NONE	102	Z			
15D	Y OR X	Y	105	X		Y	

105. WHEN REMOTE TRUNK ANSWERING FEATURE IS ADDED TO A PBX AND THE MARKER IS EQUIPPED WITH APP FIG 9 AND WS OPTIONS, OPTION Y MUST BE SPECIFIED INSTEAD OF OPTION X.

INFORMATION NOTES:

301. THE INFORMATION SHOWN IN CAD 1 COVERS ALL LEADS THAT RUN BETWEEN SLIDES.

302. LEADS TO OPTIONAL FEATURES WHICH ARE MOUNTED WITHIN THE PBX MODULES, SUCH AS BUSY VERIFICATION, STATION CONTROLLED DIAL CONFERENCE AND ATTENDANT CONTROLLED DIAL CONFERENCE ARE PROVIDED IN PLUG-ENDED LOCAL CABLING TERMINATING AT THE SLIDE LOCATION OF THESE UNITS. LEADS TO OPTIONAL FEATURES MOUNTED EXTERNAL TO THE PBX, SUCH AS STATION DIAL TRANSFER OR REMOTE TRUNK ANSWERING, ARE PROVIDED IN PLUG-ENDED "CONNECTOR" CABLES WHICH ARE REQUIRED WHEN THESE FEATURES ARE PROVIDED. OTHER LEADS TERMINATING OUTSIDE THE PBX ARE STRAPPED TO APPROPRIATE CONNECTORS IN THE CROWN AND ROUTED TO THE HOUSE BOX THROUGH THE MODULE 1 OR MODULE 2 "HOUSE AND FEEDER" CABLE SHOWN ON SD-65746-01.

303. APPLICABLE STRAPPED PLUG ASSEMBLIES PROVIDED IN THE CROWN ARE REMOVED AS REQUIRED.

304. UNLESS OTHERWISE SHOWN, ALL LEAD COLORS APPLY TO BOTH SIDES OF THE PLUG AND CONNECTOR.

305. THE LETTER SHOWN UNDER THE "PLT" COLUMN IN CAD 1 IS THE PHYSICAL LOCATION OF THE PIECE OF APPARATUS ON A MOUNTING PLATE TO WHICH THE LEAD IS CONNECTED. THE STAMPING OF THE LETTERS APPEARS ON THE UPRIGHT OF THE SLIDE.

306. CIRCUIT OPTIONS APPEARING ON ASSOCIATED SCHEMATIC DRAWINGS TO PROVIDE VARIOUS FEATURES FOR THE 756A PBX ARE INDEXED IN TABLE A. THE OPTION DESIGNATIONS SHOWN ARE THOSE LISTED ON THE SD-DRAWING ISSUES AVAILABLE AT THE DATE OF THE LATEST ISSUE OF THIS DRAWING

DRAWING ISSUE	
1	VRR JPF KSJ HW
12D	JJR SAK RHP
15D	PMC PSS RHP

15

FEATURE CABLING DIAGRAM (2) SD-66920-01-DI

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INDEX OF OPTIONAL FEATURES (SEE NOTE 306)

TABLE A

FEATURE			CIRCUIT DRAWING NUMBER	OPTIONS REQUIRED: OPT	CAD NUMBER SD-66920-01	OPT TO BE WIRED AT CONN BOX	OPT WIRED AT FACTORY	REMARKS
BUSY VERIFICATION	REQD		SD-65741-01	VT			✓	
			SD-65746-01	Y			✓	
			SD-65753-01	F			✓	
			SD-65757-01	ZK,ZZ			✓	
	NOT REQD		SD-65741-01	YS				
			SD-65746-01	Z				
			SD-65753-01	E				
DIAL CONFERENCE	STATION CONTROLLED	REQD	SD-65741-01	XA,XD	3		✓	
			SD-65746-01	S	3		✓	
		608A OR 608D SWBD	SD-65741-01	XY				
			SD-66902-01	X			✓	
		NOT REQD	SD-65741-01	XB,XE			✓	
			SD-65746-01	—				
	ATTENDANT CONTROLLED	REQD	SD-65741-01	XA,XC	3		✓	
			SD-65746-01	R	3		✓	
		NOT REQD	SD-65741-01	XB,XE			✓	
			SD-65746-01	—				
REMOTE TRUNK ANSWERING	REQD		SD-65741-01	XF	1		✓	
			SD-65746-01	T			✓	
			SD-65752-01	ZZ	4		✓	
			SD-65757-01	ZO	4		✓	
			SD-66796-01	J	4		✓	
	NOT REQD		SD-65746-01	V				
			SD-65757-01	ZN	4		✓	
			SD-65796-01	H,J	4		✓	
STATION DIAL TRANSFER	REQD		SD-65741-01	YV,YX	5		✓	
			SD-65746-01	W			✓	
			SD-65752-01	ZX	5		✓	
			SD-65757-01	ZF	5		✓	
	NOT REQD		SD-65741-01	YW	5		✓	
			SD-65746-01	X				
			SD-65752-01	ZW	5		✓	
INWARD RESTRICTION	REQD		SD-65741-01	XP	7		✓	
			SD-65746-01	H	7		✓	
			SD-66911-01	V			✓	
	NOT REQD		SD-65741-01	XO	7		✓	
			SD-65746-01	J	7		✓	
			SD-66911-01	—				
PAD CONTROL FOR DIAL REPEATING CODE & TIE TRUNK	REQD		SD-65741-01	WF	9,10		✓	
	NOT REQD		SD-65741-01	WE				
STATION MESSAGE REGISTER	REQD		SD-65741-01	WV	11,12		✓	
			SD-65746-01	ZA	2,6		✓	
			SD-65752-01	YC	6,11		✓	
			SD-66911-01	W	2		✓	
	NOT REQD		SD-65741-01	WU	11		✓	
			SD-65746-01	—				
			SD-65752-01	YB	11		✓	
			SD-66911-01	—				
MAKE BUSY AND BUSY DISPLAY	REQD		SD-65752-01	YT	6		✓	

DRAWING ISSUE	
1	RKU WFF KFJ HW
4D	WGN SAK GFH
5D	DMY SAK GFH
9D	PJS SAK GFH
10D	PJS SAK GFH
12D	JJR SAK RHP HW
14D	BCN PJS RHP
15D	PMC PJS RHP

SD-66920-01-D2

15

FEATURE CABLING DIAGRAM (2) — SD-66920-01-D2

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SLIDE 1	SLIDE 2	SLIDE 3	SLIDE 4 PLUG AY PIN NO.	SLIDE 4 PLT	SLIDE 5 PLUG AY PIN NO.	SLIDE 5 PLT	SLIDE 6 PLUG AY PIN NO.	SLIDE 6 PLT	LEAD DESIG
			SEE NOTE 1						
			BL — PIN 45	AB	6M (FB) REL	V			AT
			BL-W — PIN 20	AB	4M (FB) REL	V			AR
			O — PIN 21	AB	8M (NT) REL	V			ST
			O-W — PIN 46	AB	12M (ON) REL	AA			HLD
			G — PIN 50		SEE NOTE 2 — CONN C PIN 8				BAT.
			G-W — PIN 25	AB	CONN C PIN 19				GRD
							SEE NOTE 2		
			BR — PIN 28	AB			BR CONN J6 PIN 7		NT
			BR-W — PIN 32	AB			BR-W CONN J6 PIN 12		ME
			S — PIN 8	AB			S CONN AW6 PIN 8		RLSE
							STRAP — CONN AY6 PIN 11		
			S-W — PIN 33	AB			S-W 12M (COA) REL	T	BY
			R — PIN 40	AB			R CONN R6 PIN 8		TM
			SEE SHEET G5						
							SEE SHEET G2		
			SEE SHEET G3						
							SEE SHEET G2		
			R-G — PIN 24	AB	6B (B) REL	AA			GI
			R-S — PIN 49	AB	4 (B) REL	AA			G2
			CONN J PIN 1		CONN AS5 PIN 10 TO CAD 4		CONN AU PIN 8		COSA1
			SEE SHEET G3						
			CONN J PIN 0 — SEE NOTE 4		CONN AS5 PIN 11 TO CAD 4 — XF SEE NOTE 3		CONN AU PIN 9 — SEE NOTE 5		COSB1
			SEE SHEET G5						

PART OF CAD 1

INTERSLIDE LEADS FOR 756A PBX FEATURE CABLE

DRAWING ISSUE

PMJD	1	RKU WF MW KKJ
	2	MM SAK KFJ
	7D	LJH SAK DFH
	15D	PMC RJS RHP

SHEET NOTES

1. SEE KS-16785 PLUG ON CAD 2.
2. SHOWN AS Y OPTION ON SD-65746-01 CAD1
3. OPTION XF IS SHOWN ON SD-65741-01
4. OPTION T IS SHOWN ON SD-65746-01
5. SEE SD-65746-01 CAD 39

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FEATURE CABLING DIAGRAM (2) — SD-66920-01-GI

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SLIDE 1 PLT	SLIDE 2 PLUG AY PIN NO. PLT	SLIDE 3 PLT	SLIDE 4 PLUG AY PIN NO. PLT	SLIDE 5 PLUG AY PIN NO. PLT	SLIDE 6 PLUG AY PIN NO. PLT	LEAD DESIG
	12 SEE SHEET G5			0 12 1 SEE SHEET G1 10 2 13		
	BR 3 TO PCHG ON T.S. "B" ON TIE TRK ADPT P BR-W 14 TO PCHG ON T.S. "B" ON TIE TRK ADPT P S 4 TO PCHG ON T.S. "A" ON TIE TRK ADPT P S-W 15 TO PCHG ON T.S. "A" ON TIE TRK ADPT P R 5 TO PCHG ON T.S. "B" ON TIE TRK ADPT P SEE NOTE 3			SEE NOTE 1 3 CONN AS5 PIN 12 14 CONN AS5 PIN 13 4 CONN AS5 PIN 9 TO CAD 4 15 CONN AS5 PIN 19 5 CONN AS5 PIN 14 SEE SHEET G5 16 BK 6 CONN AS5 PIN 7 TO CAD 4 BK-W 17 CONN AS5 PIN 8 TO CAD 4 7 SEE SHEET G1 18 8 SEE SHEET G1 19 9 SEE SHEET G1 11 SEE SHEET G5	3 14 4 SEE SHEET G1 15 5 6 CONN D PIN 10 17 CONN D PIN 9 SEE NOTES 1 & 2 7 18 SEE SHEET G3 8 9 SEE SHEET G3 11	T2 R2 (T-)BAT (T-)GRD S2 COS A COS B

PART OF CAD 1
INTERSLIDE LEADS FOR 756A PBX FEATURE CABLE

DRAWING ISSUE		
1	RKU JFF KFJ	HW
2	JSTP SAK KFJ	
15D	PMC PJS RHP	

SHEET NOTES

1. SHOWN AS XF OPTION ON SD-65741-01
2. SHOWN AS T OPTION ON SD-65746-01 CAD1
3. LEADS TO TS "A" AND TS "B" ON PLATE P SHALL BE TIED BACK. INSTALLER SHALL OBTAIN ASSIGNMENT FROM TEL. CO. ENGINEER AT TIME OF INSTALLATION.

15

FEATURE CABLING DIAGRAM (2) SD-66920-01-G2

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SD-66920-01-G2

E-7421 (10-68)

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SLIDE 1 PLUG AY PIN NO.	PLT	SLIDE 2 PLUG AY PIN NO.	PLT	SLIDE 3	PLT	SLIDE 4 PLUG AY PIN NO.	PLT	SLIDE 5	PLT	SLIDE 6 PLUG AY PIN NO.	PLT	LEAD DESIG
BL												
0 CONN F1 PIN 2		0 PLUG P1 PIN 1				0						F2
SEE NOTE 4		12 SEE SHEET G5				12						
0												
1 CONN F1 PIN 3		1 PLUG P1 PIN 2				1						FF2
CONN AY1 PIN 2 O-W												
10 CONN J1 PIN 19		10 PLUG P1 PIN 18				10						BT
		2				2						
		13				13 SEE SHEET G1						
		TO CAD 3										
		3				3				3		
		14				14				14		
		4 SEE SHEET G2				4				4 SEE SHEET G1		
		15				15				15		
		5				5				5		
		16				SEE SHEET G5 16						
		BK										
		6 PLUG P1 PIN 19				10M TKB9 6				6 SEE SHEET G2		D9 Z
		BK-W										
		17 PLUG P1 PIN 20				12M TKO 17				17		DO Z
		R-G										
		7 PLUG P1 PIN 21				SEE SHEET G1 7				11M COTA 7	T	IT5
		R-S										
		18 IT-1 TIE TRK ADPT T.S.(D)				SEE SHEET G1 18				11 COTA 18	T	ITSC
		R-BL-W										
		8 HM-2 TIE TRK ADPT T.S.(D)				SEE SHEET G2 8				11M COTB 8	S	HMAC
		R-O-W										
		19 PLUG P1 PIN 23				8B TKAO 19 CONN AM4 PIN 4 TO CAD 5						RS(E) Z
		R-G-W										
		9 PLUG P1 PIN 22				SEE SHEET G2 9				1U CCC 9 CONN AWG PIN 17	R	CCC
		R-BR-W										
		11 PLUG P1 PIN 24				SEE SHEET G5 11				STRAP 11 CONN AY6 PIN 4	T	RLS(E)
SEE NOTE 1		SEE NOTE 3 SEE NOTE 2										

PART OF CAD 1

INTERSLIDE LEADS FOR 756A PBX FEATURE CABLE
DIAL CONFERENCE TRUNK
STATION CONTROLLED SD-66902-01
ATTENDANT CONTROLLED SD-66908-01

SHEET NOTES:

1. SHOWN AS (S) OPTION ON SD-65746-01 CAD 1. STRAPPED IN CROWN.
2. TO THE "IT-1" AND "HM-2" TERM RESPECTIVELY OF THE ROW THAT IS ASSIGNED TO THE UNIVERSAL LINE CKT USED AS PORT 5 OF THE DIAL CONF TRK CKTS-STA OR ATT CONT, SD-66902-01 AND SD-66908-01. LEADS TO THESE TERMINALS SHALL BE TIED BACK. INSTALLER SHALL OBTAIN TERMINATION ASSIGNMENT FROM TEL CO ENGR AT TIME OF INSTALLATION.
3. SEE CAD 3, KS-16785 PLUG P1 ON SLIDE CABLE.
4. SHOWN AS (R) OPTION ON SD-65746-01 CAD 2.

DRAWING ISSUE		
1	WPA JFF AFJ	HW
2	RSTD SAK WFJ	
7D	JJH SAK GFH	

7

PBX SYSTEMS
NO. 756A
FEATURE CABLING DIAGRAM (2)

SD-66920-01-G3

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SLIDE 1 PLUG AY PIN NO.	PLT	SLIDE 2 PLUG AW PIN NO.	PLT	SLIDE 3 PLUG PIN NO.	PLT	SLIDE 4 PLUG AS PIN NO.	PLT	SLIDE 5 PLUG PIN NO.	PLT	SLIDE 6 PLUG PIN NO.	PLT	LEAD DESIG
2	G STRAP CONN AY1 PIN 1					2						FF
3	BR CONN F1 PIN 7					3						CR
4	S CONN M1 PIN 3					4						C (BAT)
5	R CONN M1 PIN 14					5	CAD 5					C(GRD)
6	BK CONN M1 PIN 5					6						TO(BAT)
7	R-G CONN M1 PIN 4					7						TI (BAT)
8	R-BL-W CONN M1 PIN 16					8						T (GRD)
0												
1	SEE NOTE 1											
10												
9	R-G-W CONN C1 PIN 14					9						RG GRD
11	R-BR-W CONN C1 PIN 3					11	CAD 5					RI
12	BL-W CONN F1 PIN 18 SEE NOTE 2					12						FT
						PLUG P1 PIN 15 SEE NOTE 3	CAD 2					

PART OF CAD 1

INTERSLIDE LEADS FOR 756A PBX FEATURE CABLE
STATION DIAL TRF FEATURE
SD-66909-01
SD-66921-01

SHEET NOTES:

1. SEE SHEET G3
2. SHOWN AS (W) OPTION ON SD-65746-01 CAD 2.
3. SHOWN AS OPTION (W) ON SD-66911-01.

DRAWING ISSUE	
1	GAP JFF KFJ HW
2	WM SAK KFJ
3	BCM FJS RHP

13

FEATURE CABLING DIAGRAM (2) SD-66920-01-G4

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SD-66920-01-G4

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SLIDE 1 PLUG PIN NO.	PLT	SLIDE 2 PLUG PIN NO.	PLT	SLIDE 3 PLUG PIN NO.	PLT	SLIDE 4 PLUG AT PIN NO.	PLT	SLIDE 5 PLUG PIN NO.	PLT	SLIDE 6 PLUG AW PIN NO.	PLT	LEAD DESIG.
						R-W		PLUG AY 16				TRJ
						O				SEE NOTE 1 / CONN J6 PIN 1		FFO
						G				SPARE		
						BR				SPARE		
						S				SPARE		
						R				CONN J6 PIN 5		RLSO
						BK				5F RGA	G	RGB
						R-G				5F RAOA	G	RGC
						R-BL-W				CONN J6 PIN 8 / CONN AY6 PIN 4		RLSE
						R-G-W				SPARE		
						O-W				CONN J6 PIN 10		FFE
						R-BR-W		PLUG AY 11				TRO
BL-W PLUG AY 2 12	L											D8
						G-W				8F TACA	Y	DB
						BR-W				7F TACA	Y	DC
						S-W				SEE NOTE 2 / CONN Y6 PIN 13		DE
						R-W				CONN Y6 PIN 12		DG
						BK-W				CONN AY6 PIN 9		CCC
						R-S				SPARE		

PLUG AY 16 — TRUNK PTCH UNIT PG 9A 26 TRK 9 V

PLUG AY 11 — TRUNK PTCH UNIT PG 4A 26 TRK 4 J

9M TKB 8 L

TO CAD 5

DRAWING ISSUE

1	WPA JFF KFJ	HW
2	WAM SAK KFJ	

PART OF CAD 1

INTERSLIDE LEADS FOR 756A PBX FEATURE CABLE
STATION DIAL TRF FEATURE
SD-66909-01
SD-66921-01

SHEET NOTES:
1. SHOWN AS (W) OPTION ON SD-65746-01 CAD 1.
2. SHOWN AS (W) OPTION ON SD-65746-01 CAD 2.

2

PBX SYSTEMS
NO. 756A
FEATURE CABLING DIAGRAM (2)

SD-66920-01-G5

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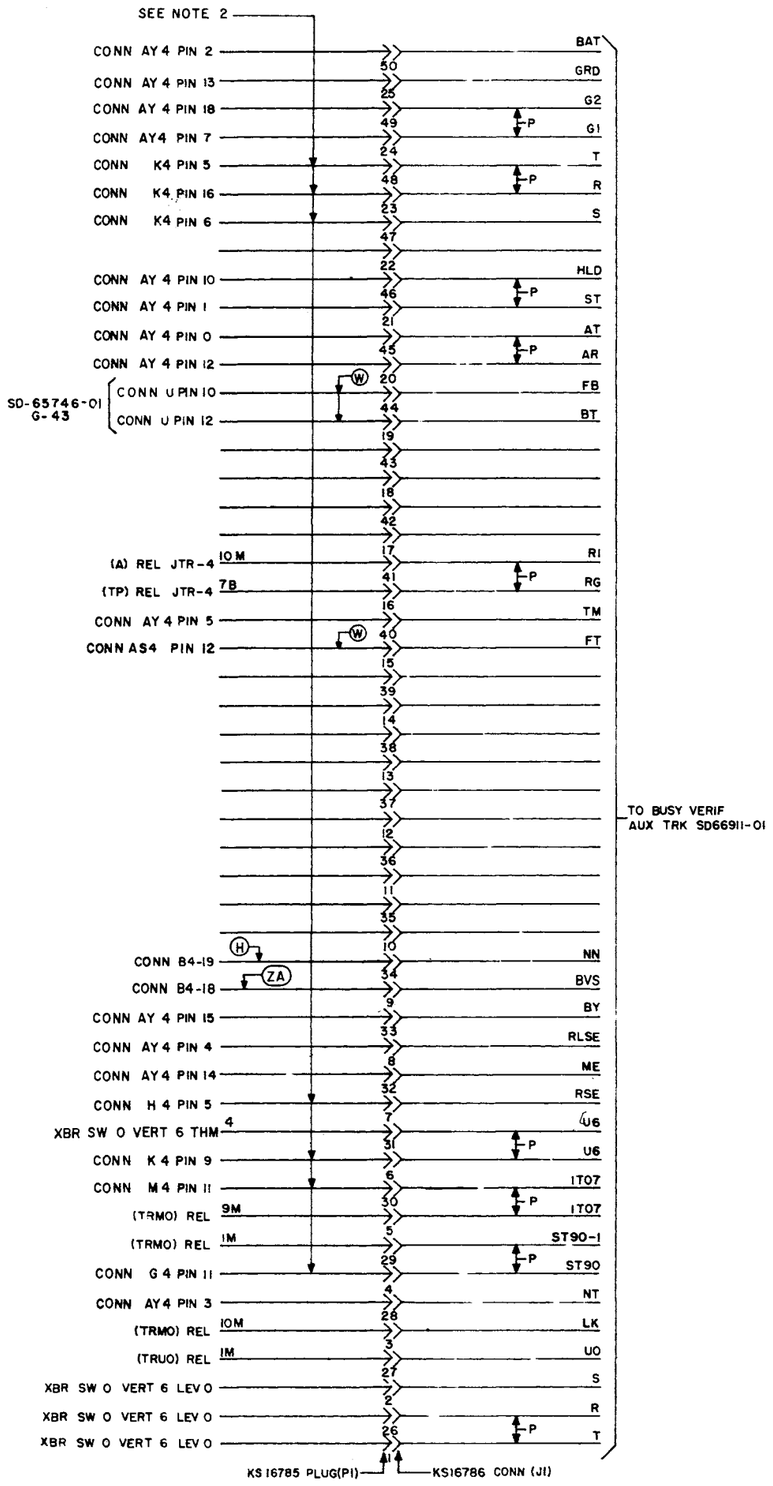
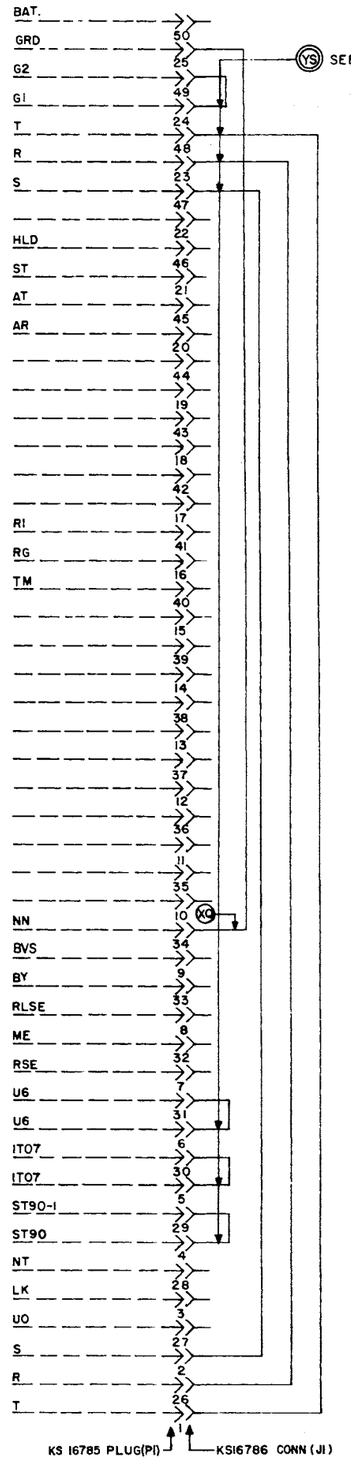
CAD 2

BUSY VERIFICATION FEATURE
SEE SD66911-01



KSI6786, L4 CONN STRAPPED AS SHOWN. FOR USE WHEN BUSY VERIFICATION AUX TRUNK FEATURE IS NOT PROVIDED.



SHEET NOTES:

1. OPTION YS IS SHOWN ON SD-65741-01.
2. SHOWN AS Y OPTION ON SD-65746-01 CAD 1.
3. OPTION XQ IS SHOWN ON SD-65741-01.
4. OPTIONS H AND ZA ARE SHOWN ON SD-65746-01.
5. OPTION W IS SHOWN ON SD-66911-01

DRAWING ISSUE	
1	GAP JFF KFJ
2	WAM SAK KFJ
4D	WGN SAK GFH
7D	JJH SAK GFH
10D	PJS SAK GFH
13D	BCM PJS RHP

SD-66920-01-G6

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FEATURE CABLING DIAGRAM (2) — SD-66920-01-G6

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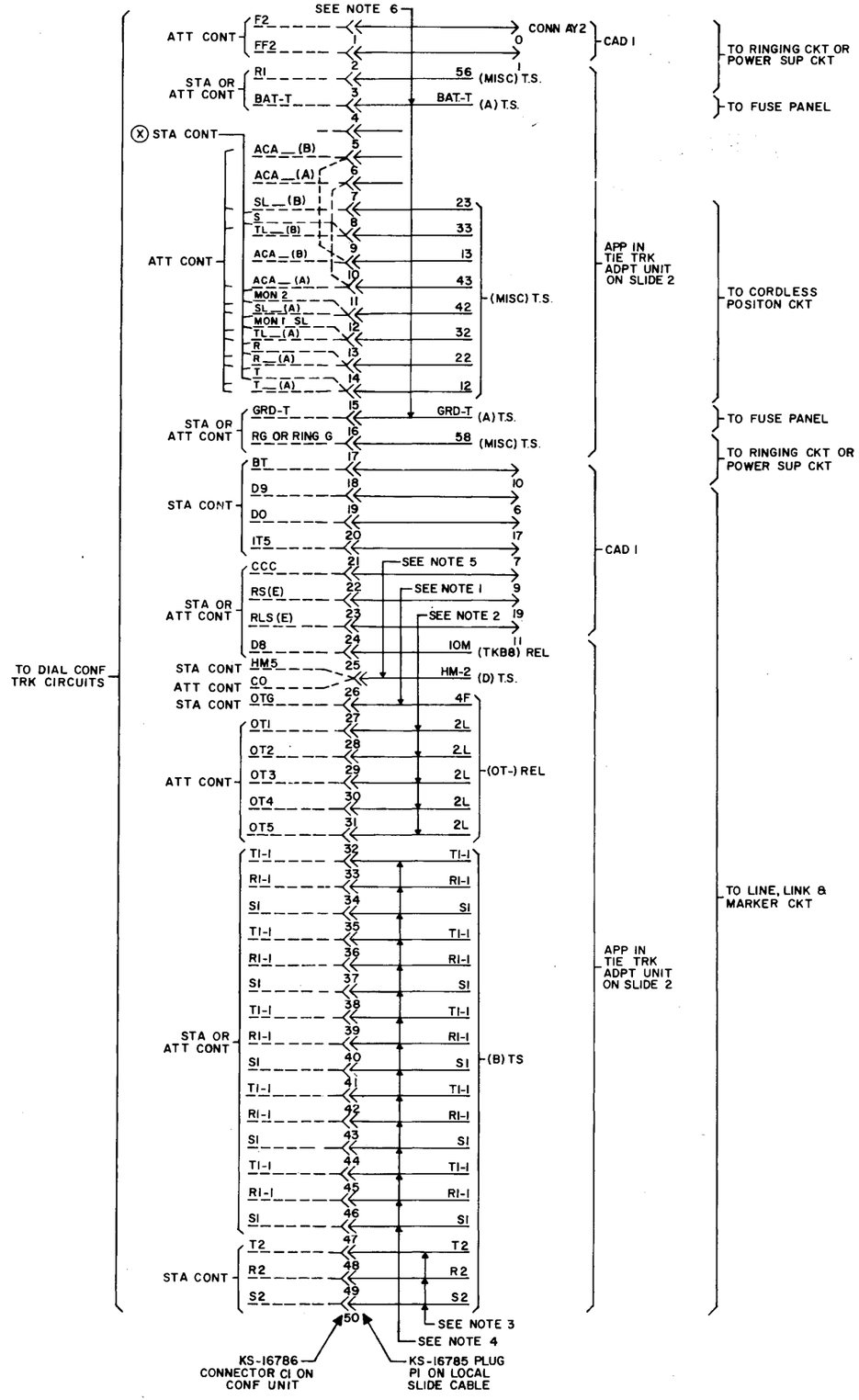
CAD 3

FOR DIAL CONF TRK
CIRCUITS STA OR ATT CONT
SD-66902-01
SD-66908-01



SHEET NOTES:

1. OT__ RELAY IN TRK CKT ASSIGNED FROM THE 80 THROUGH 89 GRP TO PORT 5 OF THE STA CONT CONF CKT.
2. OT__ RELAYS IN TRK CIRCUITS ASSIGNED FROM THE 80 THROUGH 89 GRP TO THE ATT CONT CONF CKT.
3. T2, R2 & S2 OF THE TRK TERM. ASSIGNED AS ACCESS PORT OF STA CONT CONF CKT.
4. TI-1, RI-1 & SI OF EACH TIE TRUNK TERM. ASSIGNED AS PORTS 1-5 OF THE STA OR ATT CONT CONF CIRCUITS.
5. HM-2 OF THE UNIV LINE CKT ASSIGNED AS PORT 5 OF THE STA OR ATT CONT CONF CIRCUITS.
6. BAT & GRD OF THE TRK TERM. ASSIGNED AS ACCESS PORT OF THE STA OR ATT CONT CONF CIRCUITS.
7. PER NOTES 1-6 ABOVE THE LEADS TO TS"A", TS"B", TS"D" AND OT-RELAYS SHALL BE TIED BACK. INSTALLER SHALL OBTAIN TERMINATION ASSIGNMENT FROM TEL CO ENGINEER AT TIME OF INSTALLATION.
8. OPTION (X) IS SHOWN ON SD-66902-01.

DRAWING ISSUE		
1	RKU	HM
	MF	
	KFJ	
2	WM	
	SAK	
	KFJ	
5D	RKU	
	SAK	
	GFH	
7D	JJH	
	SAK	
	GFH	

7

PBX SYSTEMS
NO. 756A
FEATURE CABLING DIAGRAM (2)

SD-66920-01-G7

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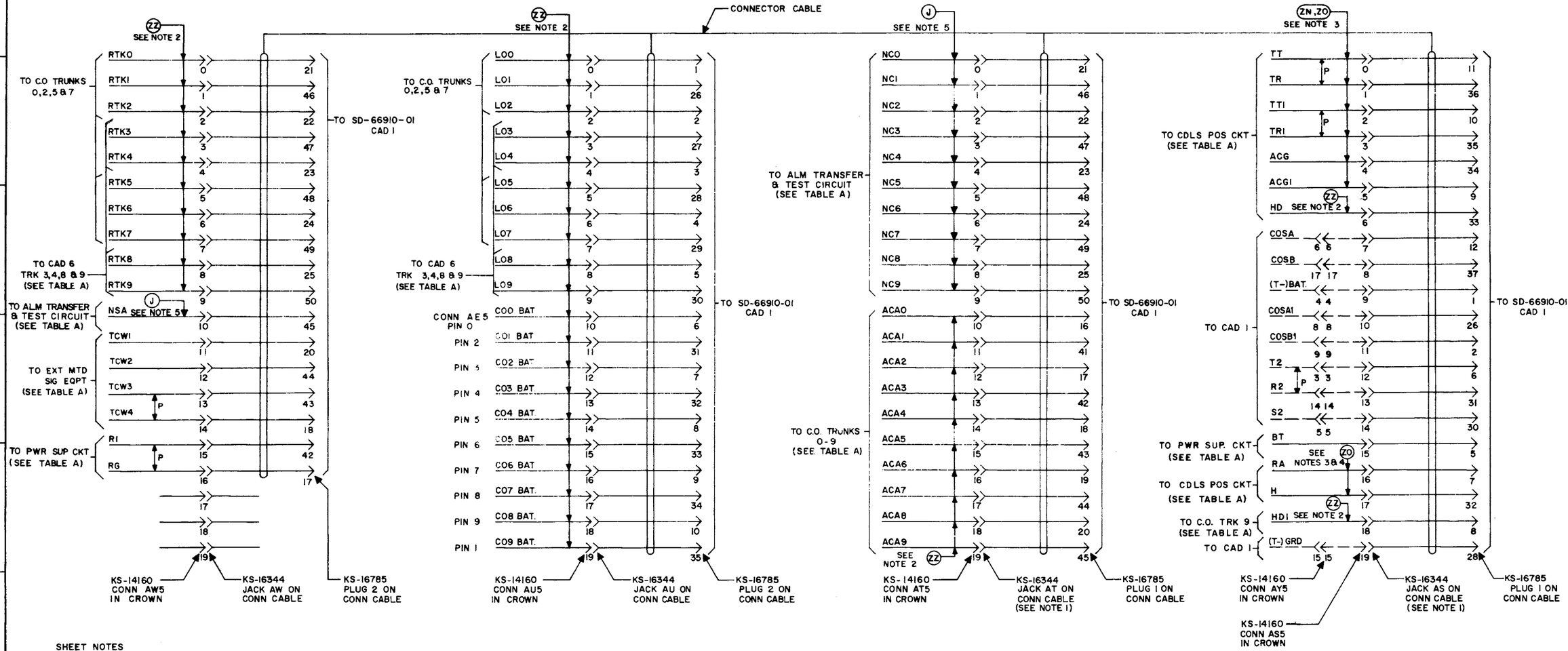
PART OF CAD 4

REMOTE TRUNK ANSWERING FEATURE
SEE SD-66910-01



SHEET NOTES

1. WHEN REMOTE TRUNK ANSWERING FEATURE IS NOT PROVIDED USE SHORTING PLUGS AS5 & AT5 SHOWN ON SHEET G9.
2. OPTION ZZ IS SHOWN ON SD-65752-01.
3. OPTIONS ZN & ZO ARE SHOWN ON SD-65757-01.
4. PROVIDED AT ALL TIMES.
5. OPTION J IS SHOWN ON SD-66796-01

DRAWING ISSUE	
1	RKU MFF KFJ NW
2	WM SAK KFJ
4D	WGN SAK GFH
7D	JJH SAK GFH
15D	FMC PJS RHP

15

FEATURE CABLING DIAGRAM (2) — SD-66920-01-G8

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SD-66920-01-G8

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PART OF CAD 4

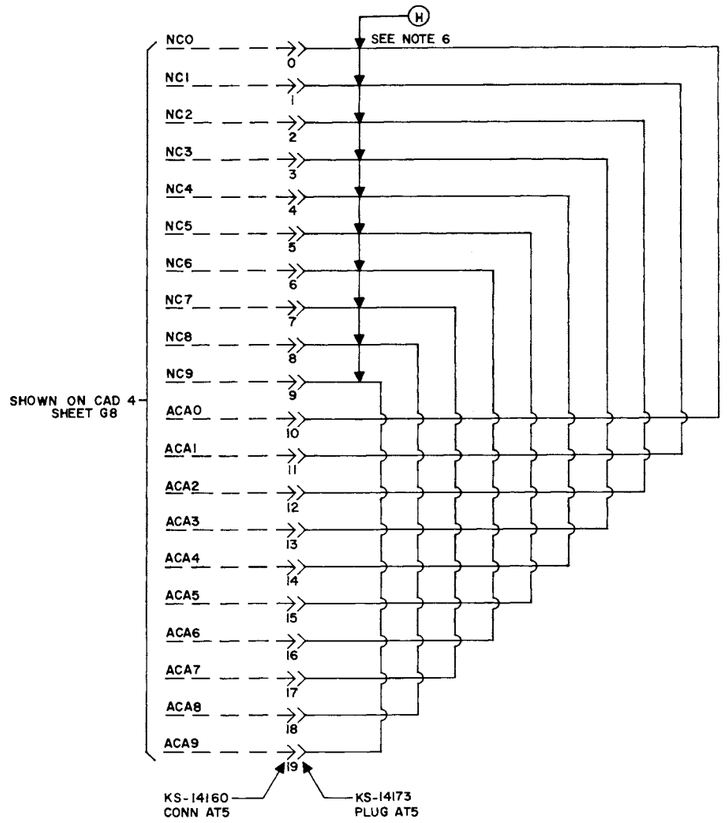
REMOTE TRUNK ANSWERING FEATURE
SEE SD-66910-01

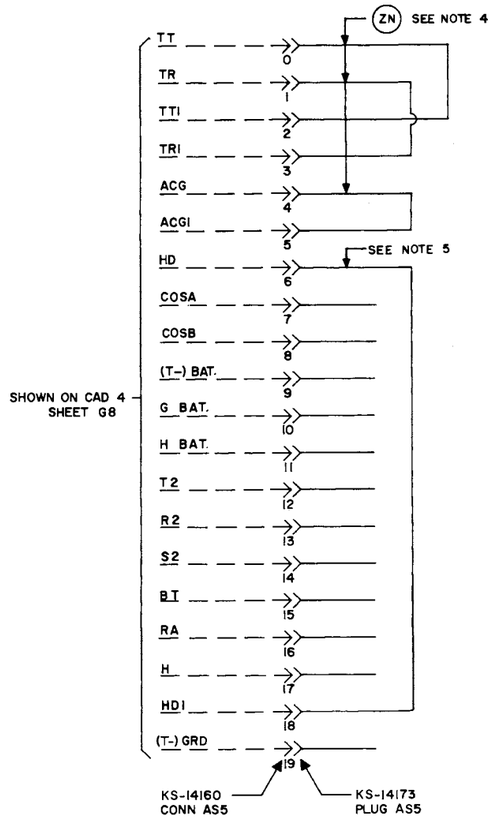
TABLE A

LEAD TERMINATIONS ON SLIDE 5
FOR REMOTE TRUNK ANSWERING

LEAD DESIG	FROM		TO	
	CONNECTOR IN CROWN	PIN NO	TERMINATION POINT	SL 5 PLATE
TT	AS5	0	7(FB) REL	V
TR	AS5	1	9(FB) REL	V
TT1	AS5	2	CONN U5 PIN NO. 5 IN CROWN (SEE NOTE 1)	-
TR1	AS5	3	CONN U5 PIN NO. 16 IN CROWN (SEE NOTE 1)	-
ACG	AS5	4	5(NT) REL	V
ACG1	AS5	5	CONN U5 PIN NO. 6 IN CROWN (SEE NOTE 1)	-
HD	AS5	6	8(H) REL	V
HD1	AS5	18	TERM 9 CONN B, TRK9 ON TRK PATCH UNIT (SEE NOTE 3)	V
H	AS5	17	CONN T5 PIN NO. 0 IN CROWN (SEE NOTE 1)	-
BT	AS5	15	CONN J5 PIN NO. 19 IN CROWN (SEE NOTE 1)	-
RA	AS5	16	CONN T5 PIN NO 8 IN CROWN (SEE NOTE 1 & 2)	-
NC0	AT5	0	1(NS) REL	J
NC1	AT5	1	2(NS) REL	J
NC2	AT5	2	3(NS) REL	J
NC3	AT5	3	4(NS) REL	J
NC4	AT5	4	5(NS) REL	J
NC5	AT5	5	6(NS) REL	J
NC6	AT5	6	7(NS) REL	J
NC7	AT5	7	8(NS) REL	J
NC8	AT5	8	9(NS) REL	J
NC9	AT5	9	10(NS) REL	J
ACA0	AT5	10	6B(AC) REL	A
ACA1	AT5	11	6B(AC) REL	C
ACA2	AT5	12	6B(AC) REL	E
ACA3	AT5	13	TERM 30 CONN B, TRK 3 ON TRK PATCH UNIT (SEE NOTE 3)	J
ACA4	AT5	14	TERM 30 CONN B, TRK 4 ON TRK PATCH UNIT (SEE NOTE 3)	J
ACA5	AT5	15	6B(AC) REL	M
ACA6	AT5	16	6B(AC) REL	P
ACA7	AT5	17	6B(AC) REL	R
ACA8	AT5	18	TERM 30 CONN B, TRK 8 ON TRK PATCH UNIT (SEE NOTE 3)	V
ACA9	AT5	19	TERM 30 CONN B, TRK 9 ON TRK PATCH UNIT (SEE NOTE 3)	V
L00	AU5	0	1L(R1) REL	B
L01	AU5	1	1L(R1) REL	D
L02	AU5	2	1L(R1) REL	F
L03	AU5	3	TERM 1 PLUG C, TRK 3 CO TRK	G
L04	AU5	4	TERM 1 PLUG C, TRK 4 CO TRK	K
L05	AU5	5	1L(R1) REL	N
L06	AU5	6	1L(R1) REL	Q
L07	AU5	7	1L(R1) REL	S
L08	AU5	8	TERM 1 PLUG C, TRK 8 CO TRK	T
L09	AU5	9	TERM 1 PLUG C, TRK 9 CO TRK	W
C00 BAT	AU5	10	CONN AE5 PIN 0	
C01 BAT	AU5	11	2	
C02 BAT	AU5	12	3	
C03 BAT	AU5	13	4	
C04 BAT	AU5	14	5	
C05 BAT	AU5	15	6	
C06 BAT	AU5	16	7	
C07 BAT	AU5	17	8	
C08 BAT	AU5	18	9	
C09 BAT	AU5	19	1	
RTK0	AW5	0	11(RT) REL	B
RTK1	AW5	1	11(RT) REL	D
RTK2	AW5	2	11(RT) REL	F
RTK3	AW5	3	TERM 26 PLUG C, TRK 3 CO TRK	G
RTK4	AW5	4	TERM 26 PLUG C, TRK 4 CO TRK	K
RTK5	AW5	5	11(RT) REL	N
RTK6	AW5	6	11(RT) REL	Q
RTK7	AW5	7	11(RT) REL	S
RTK8	AW5	8	TERM 26 PLUG C, TRK 8 CO TRK	T
RTK9	AW5	9	TERM 26 PLUG C, TRK 9 CO TRK	W
NSA	AW5	10	11M(NS) REL	J
TCW1	AW5	11	CONN T5 PIN NO 6 IN CROWN (SEE NOTE 1 & 2)	-
TCW2	AW5	12	CONN T5 PIN NO 17 IN CROWN (SEE NOTE 1 & 2)	-
TCW3	AW5	13	CONN T5 PIN NO 7 IN CROWN (SEE NOTE 1 & 2)	-
TCW4	AW5	14	CONN T5 PIN NO 18 IN CROWN (SEE NOTE 1 & 2)	-
RI	AW5	15	CONN C5 PIN NO 3 IN CROWN (SEE NOTE 7)	-
RG	AW5	16	CONN C5 PIN NO 14 IN CROWN (SEE NOTE 7)	-

KS-14173 PLUG ASSEMBLIES STRAPPED AS SHOWN.
FOR USE WHEN REMOTE TRUNK ANSWERING FEATURE IS NOT PROVIDED.





SHEET NOTES
1. SHOWN AS T OPTION ON SD-65746-01 CAD 1A.
2. LEADS RUN TO THE HOUSE BOX IN THE HOUSE AND FEEDER CABLE FROM MODULE 2. SEE SD-65746-01 CAD 1A.
3. SEE SD-65746-01, CAD 8.
4. OPTION ZN IS SHOWN ON SD-65757-01.
5. SEE SD-65752-01.
6. OPTION H IS SHOWN ON SD-66796-01.
7. SHOWN AS T OPTION ON SD-65746-01 CAD 2.

DRAWING ISSUE	
1	RAJ JFF KFJ
2	WM SAK KFJ

2

PBX SYSTEMS
NO. 756A
FEATURE CABLING DIAGRAM (2)

SD-66920-01-G9

BELL TELEPHONE LABORATORIES INCORPORATED

DWG SIZE 6S

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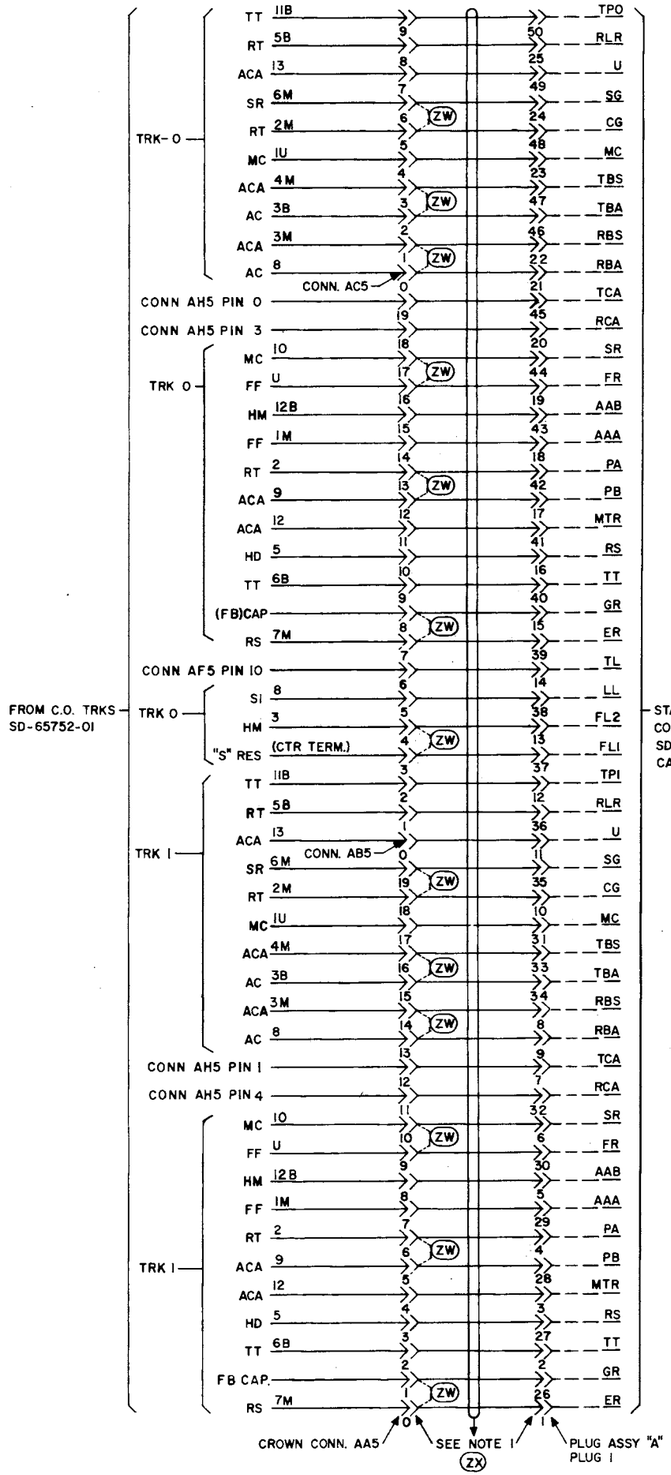
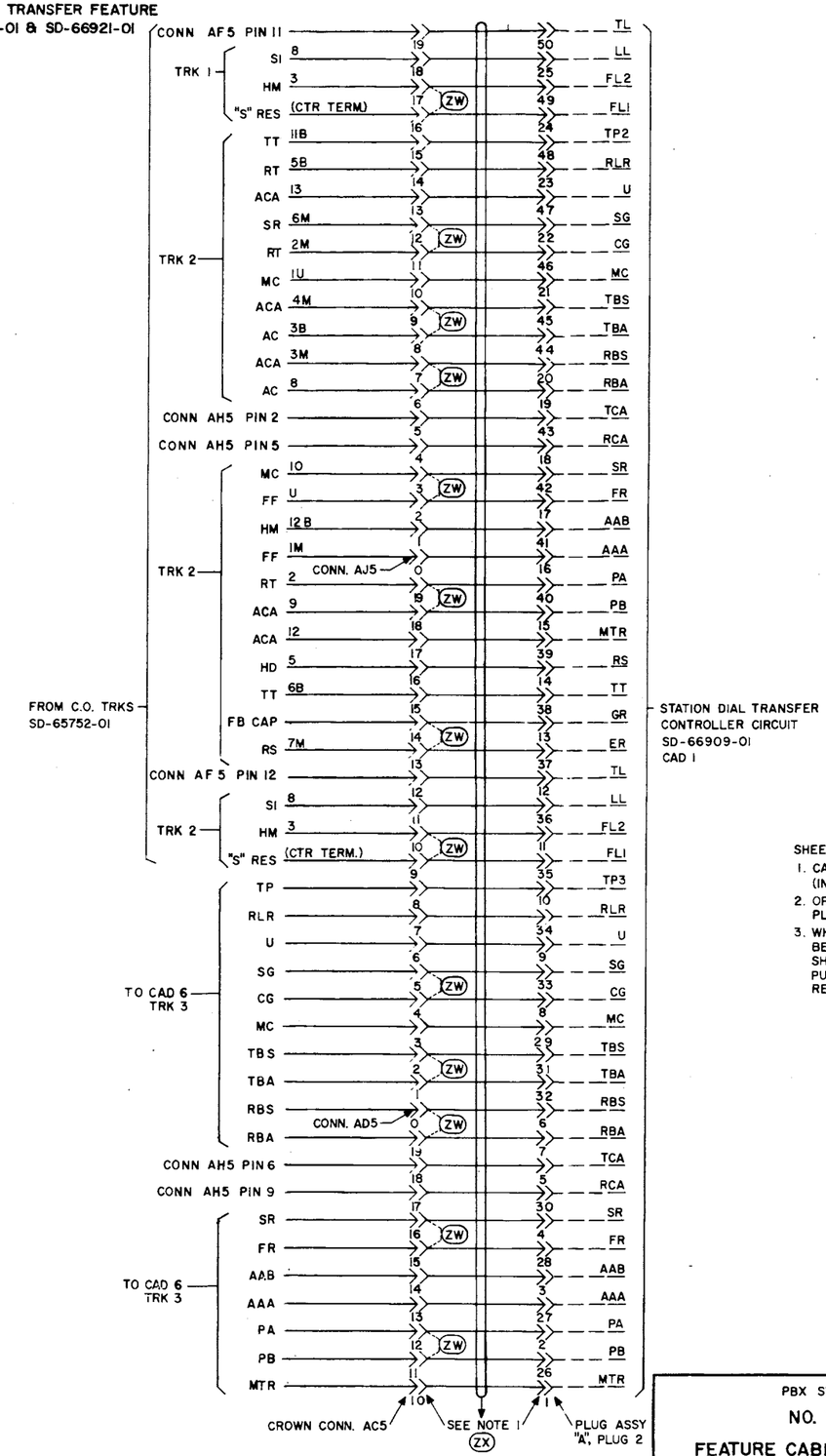
PART OF CAD 5

STATION DIAL TRANSFER FEATURE
SEE SD-66909-01 & SD-66921-01





SHEET NOTES:

1. CABLE AND PLUG ASSY "AA" PER H912- GI (INCLUDES ALL LEADS FOR OPTION (ZX)).
2. OPTION (ZW) CONSISTS OF A KS-14173 PLUG ASSEMBLY STRAPPED AS SHOWN.
3. WHENEVER OPTION (ZW) REQUIRES LEADS BETWEEN PINS NOT ON SAME PLUG, LEADS SHALL BE SLACK SO THAT PLUGS MAY BE PULLED AND LEFT NEARBY FOR EASE OF REINSTALLATION.

DRAWING ISSUE		
1	WPA JFF KFJ	HW
2	WPM SAK KFJ	
3D	DWY SAK GFH	
7D	JJH SAK GFH	

-7

PBX SYSTEMS
NO. 756A
FEATURE CABLING DIAGRAM (2)

SD-66920-01-G10

BELL TELEPHONE LABORATORIES INCORPORATED — DWG SIZE 6S — PRINTED IN U.S.A.

SD-66920-01-G10

E-7421 10-61

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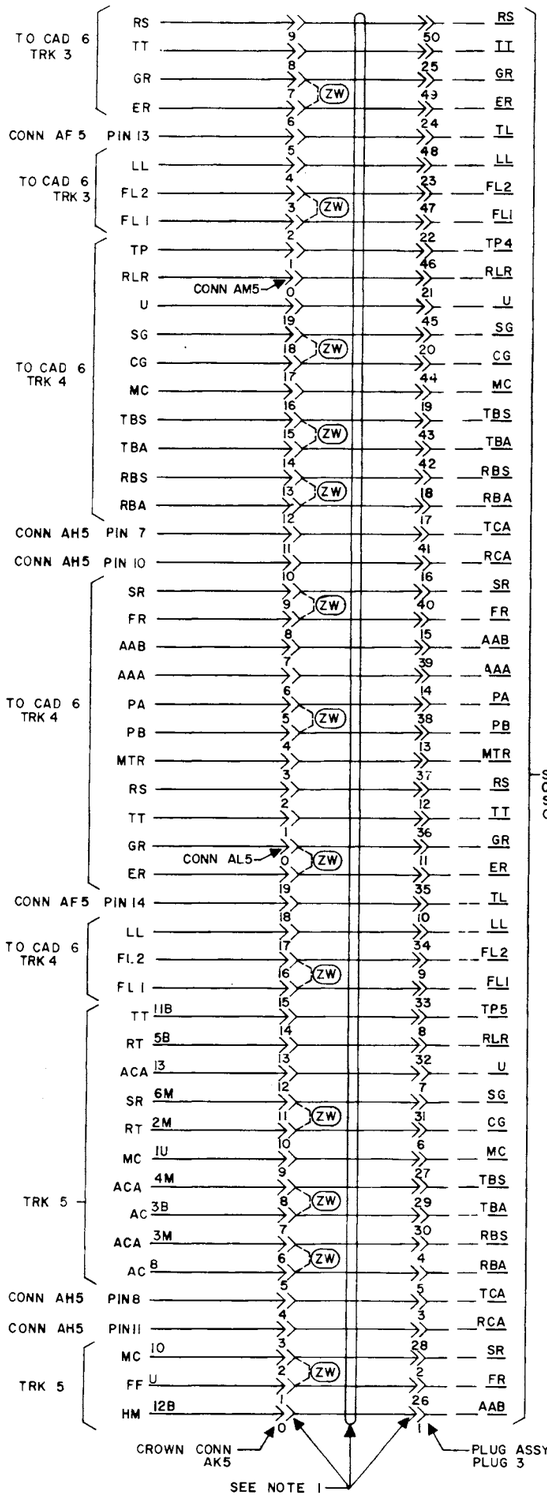
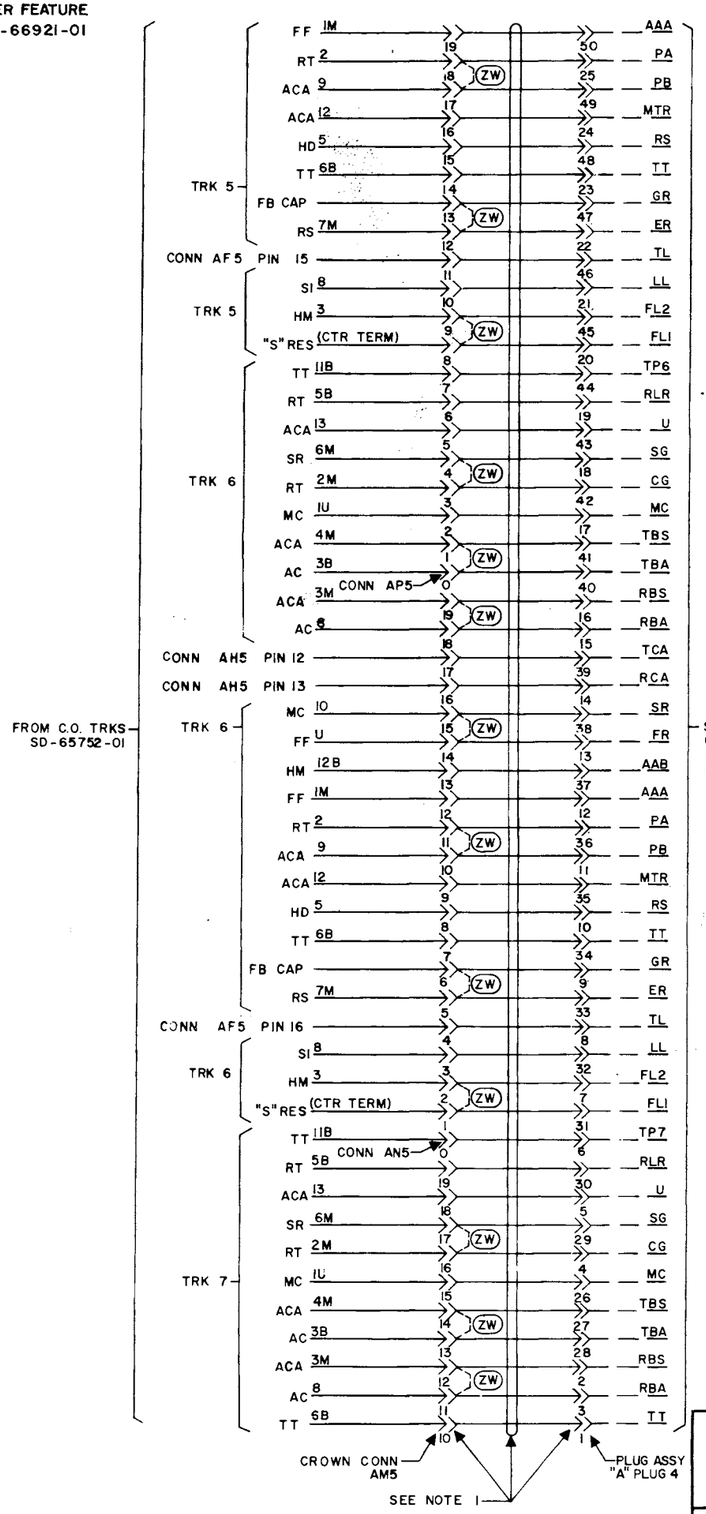
PART OF CAD 5

STATION DIAL TRANSFER FEATURE
SEE SD-66909-01 & SD-66921-01





DRAWING ISSUE		
1	RKU	
	JFF	HW
	KFJ	
2	WAM	
	SAK	
	KFJ	
3-D	DWY	
	SAK	
	GFH	
7-D	JJH	
	GFH	

SHEET NOTES:
1. CABLE & PLUG ASSY "AA" PER H-912- G-1 INCLUDES ALL LEADS FOR OPTION (ZX).
2. OPTION (ZW) CONSISTS OF KS-14173 PLUG ASSY STRAPPED AS SHOWN.
3. WHENEVER OPTION (ZW) REQUIRES LEADS BETWEEN PINS NOT ON SAME PLUG, LEADS SHALL BE SLACK SO THAT PLUGS MAY BE PULLED AND LEFT NEARBY FOR EASE OF REINSTALLATION.

7

PBX SYSTEMS
NO. 756A
FEATURE CABLING DIAGRAM (2)

SD-66920-01-G11

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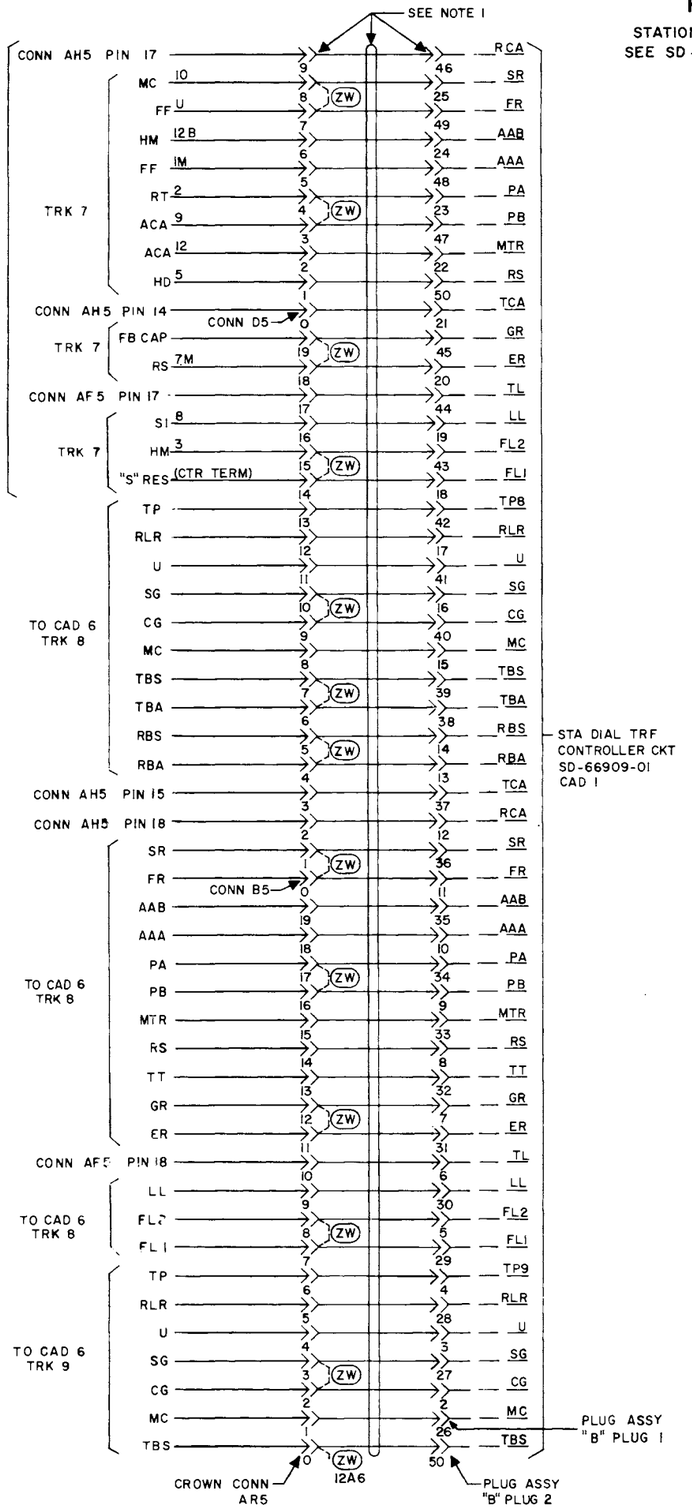
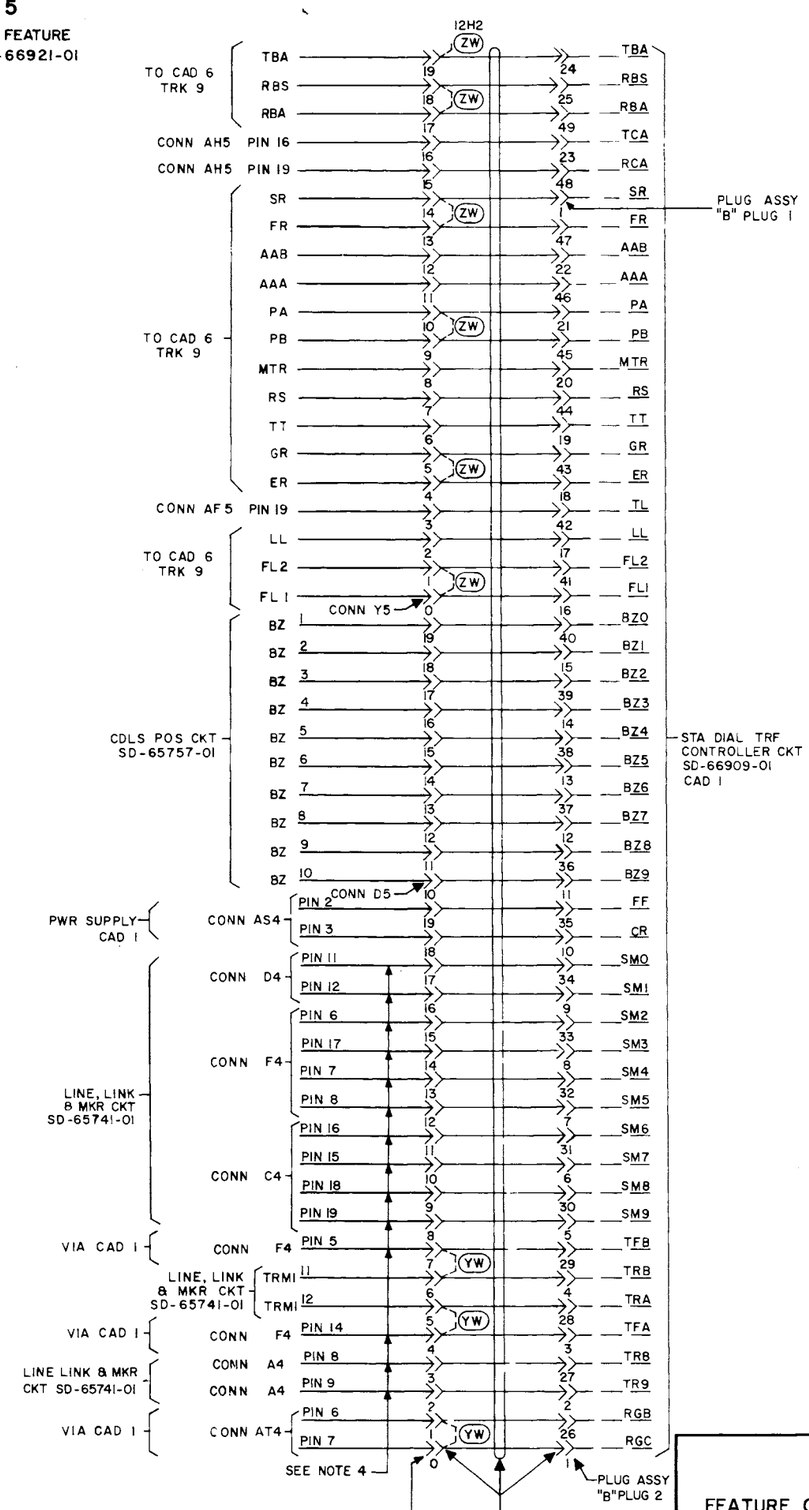
PART OF CAD 5

STATION DIAL TRANSFER FEATURE
SEE SD-66909-01 & SD-66921-01





DRAWING ISSUE		
1	RKU	WFF NW KFJ
2	WM SAK	KFJ
3D	DMY SAK	GFH
6AC	LJC SAK	GFH
7D	JJH SAK	GFH

SHEET NOTES

1. CABLE & PLUG ASSY PER H-912- G-2 INCLUDES ALL LEADS REQ'D FOR OPTION (YX), (ZX), (YV) & (ZF)
2. OPTION (ZW) & (YW) CONSISTS OF KS-14173 PLUGS STRAPPED AS SHOWN.
3. WHENEVER OPTION (ZW) REQUIRES LEADS BETWEEN PINS NOT ON SAME PLUG LEAD, SLACK SHALL BE SUFFICIENT TO FACILITATE REMOVAL & REINSTALLATION OF PLUG.
4. SHOWN AS (W) OPTION ON SD-65746-01 CAD 1

PBX SYSTEMS
NO. 756A
FEATURE CABLING DIAGRAM (2)

SD-66920-01-G12

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SD-66920-01-G12

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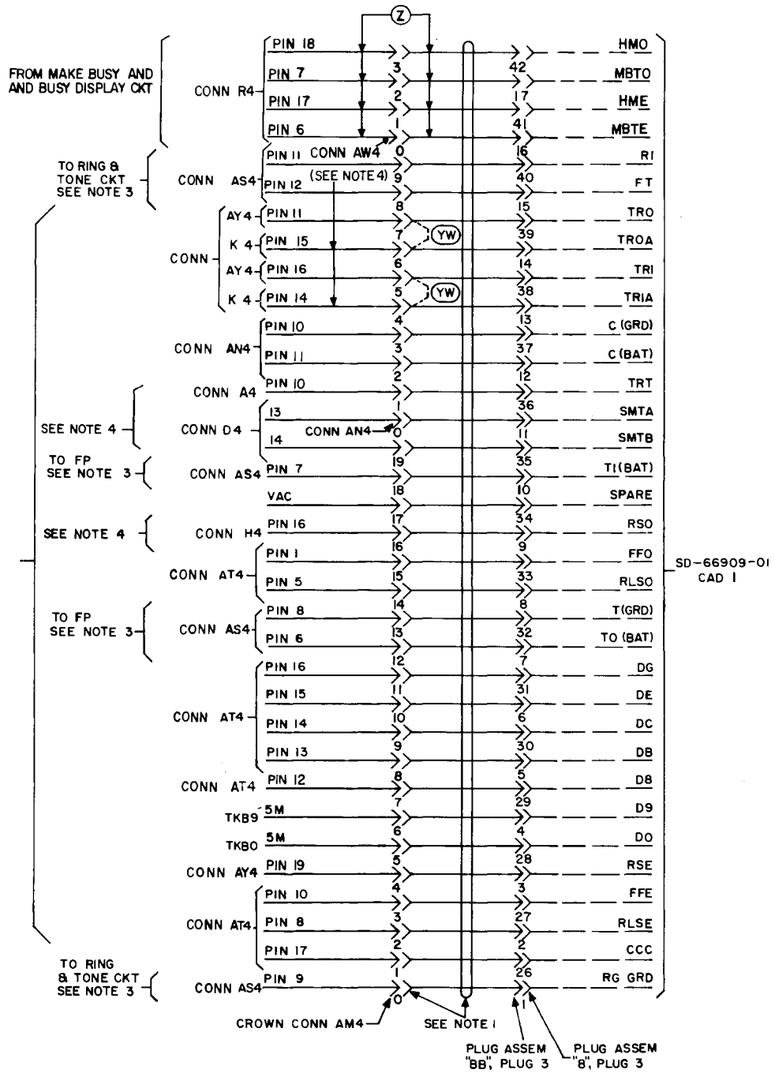
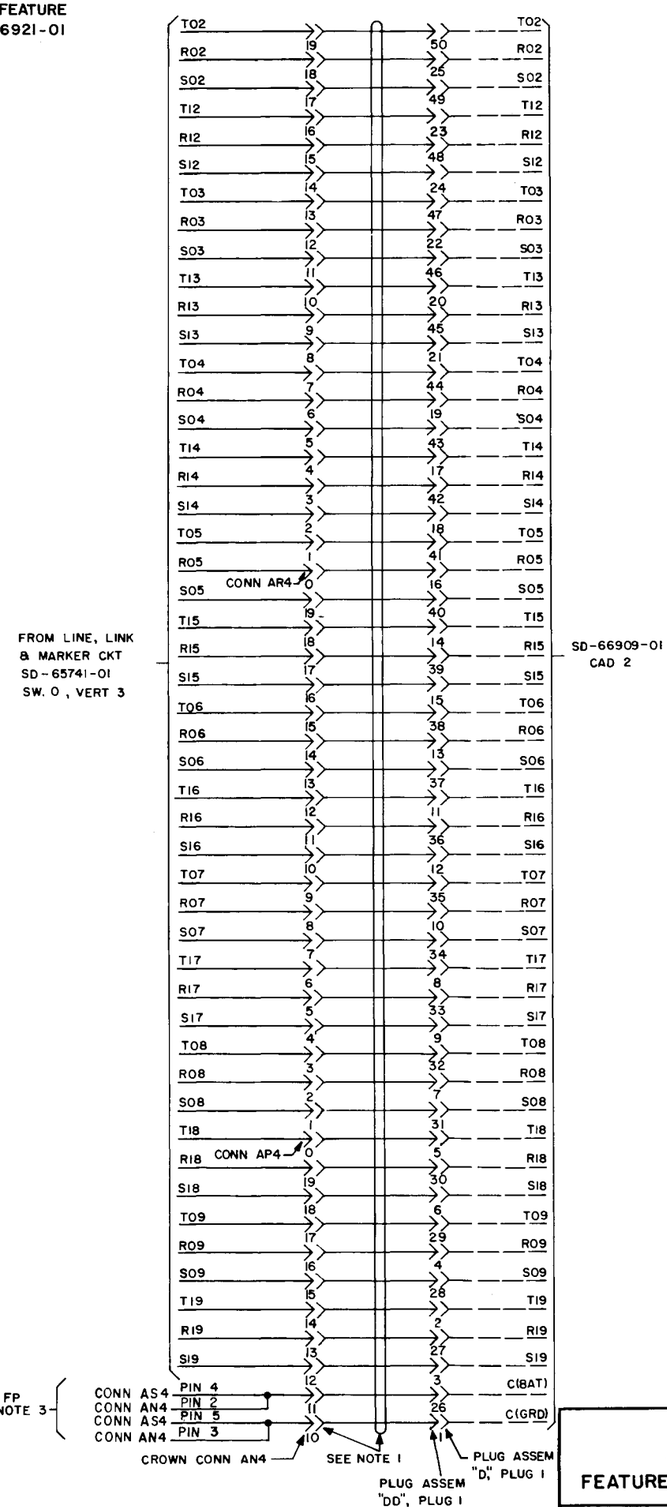
PART OF CAD 5

STATION DIAL TRANSFER FEATURE
SEE SD-66909-01 & SD-66921-01





SHEET NOTES:

1. CABLE AND PLUG ASSEM BB & DD PER H912- G-2 INCLUDES LEADS FOR ALL FEATURE OPTIONS.
2. ALL LEADS FROM LINE, LINK & MARKER CKT ARE AS SHOWN CONNECTING DIRECT OR VIA MULT PLUGS SEE CAD 1.
3. SEE CAD 1 FOR LEADS TO SLIDE 1 POWER SUPPLY OR RINGING CKT.
4. SHOWN AS (W) OPTION ON SD-65746-01 CAD 1.
5. OPTION (YW) CONSISTS OF A KS 14173 PLUG STRAPPED AS SHOWN.

DRAWING ISSUE		
1	GAP	HW
2	BSTP SAK	
3	DWY SAK GFH	
7D	JJH SAK GFH	
12D	JJR SAK RHP	HW

12

FEATURE CABLING DIAGRAM (2)

SD-66920-01-G13

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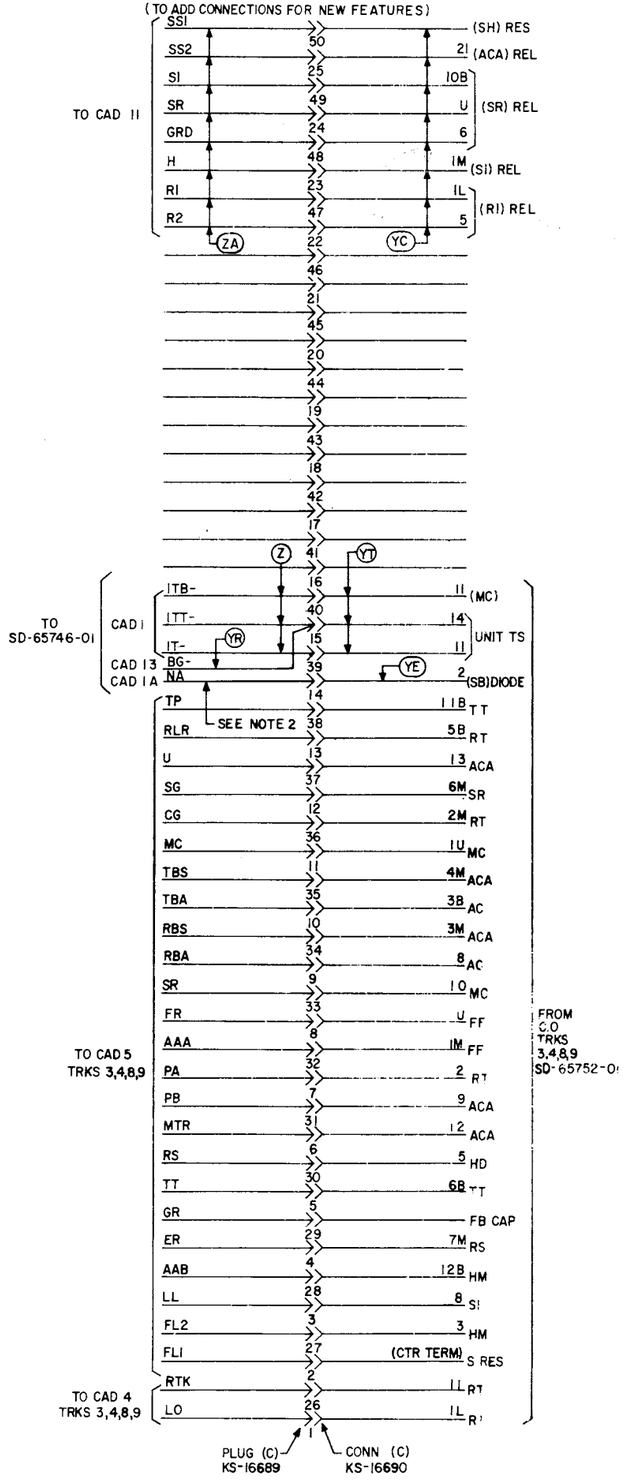
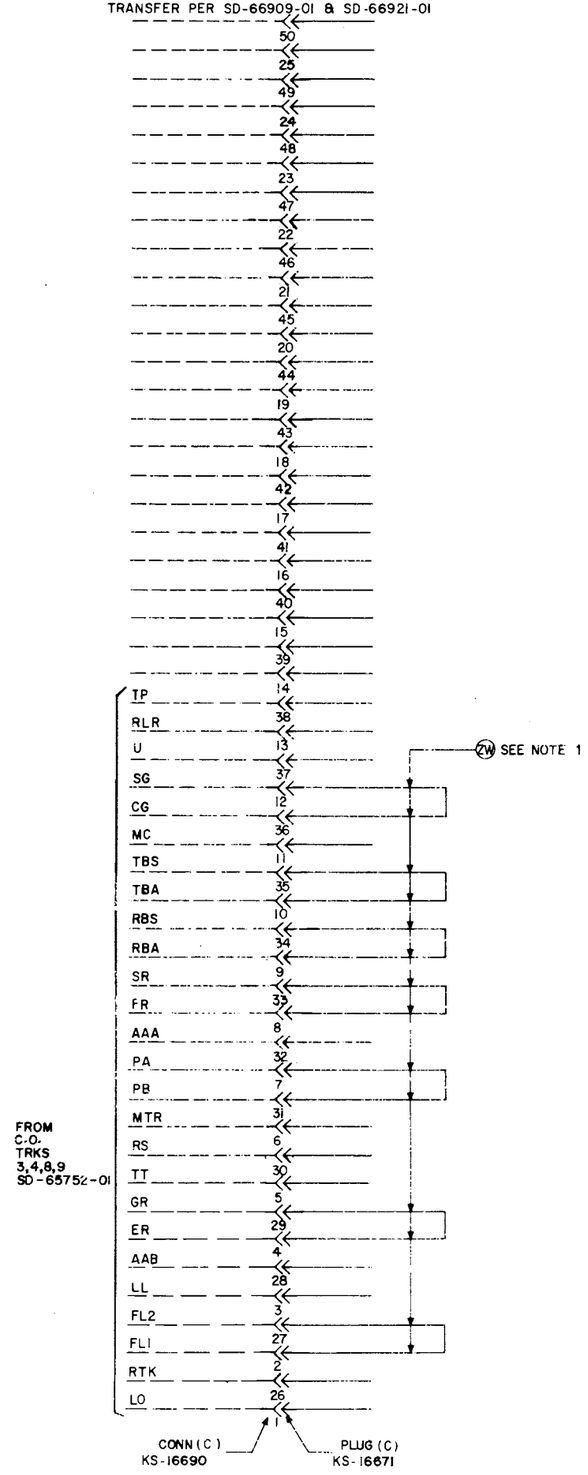
CAD 6

FOR CO TRK 3,4,8,9 SEE SD-65752-01
(TO ADD CONNECTIONS FOR NEW FEATURES)



CAD 8

KS-16671 PLUG STRAPPED AS SHOWN FOR USE WHEN CO TRK 3,4,8 & 9 IS EQUIPPED WITH CONN C AND USED ON PBX NOT WIRED FOR STATION DIAL TRANSFER PER SD-66909-01 & SD-66921-01



SHEET NOTE

1. OPTIONS ZW, YC, YE, YR & YT ARE SHOWN ON SD-65752-01.
2. MULT LEAD NA TO ALL OTHER CO TRUNKS.
3. OPTION ZA IS SHOWN ON SD-65746-01

DRAWING ISSUE	
2	BTP SAK KSV
7D	JJH SAK GFH
8 AC	JJH SAK GFH
9D	PJS SAK GFH
10D	PJS SAK GFH
12D	JJR SAK RHP
15D	PMC RJS RHP

15

FEATURE CABLING DIAGRAM (2)

SD-66920-01-G14

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SD-66920-01-G14

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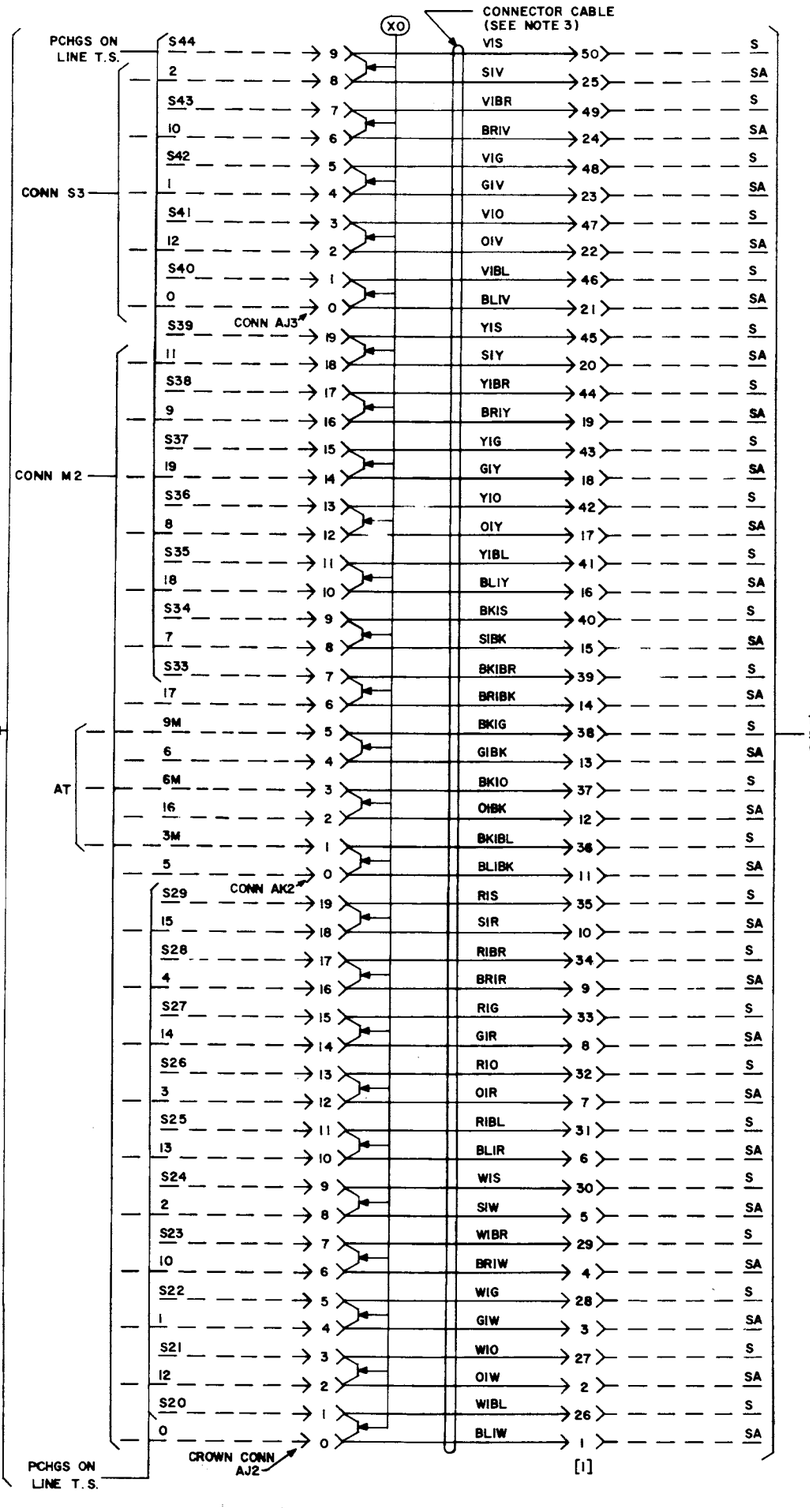
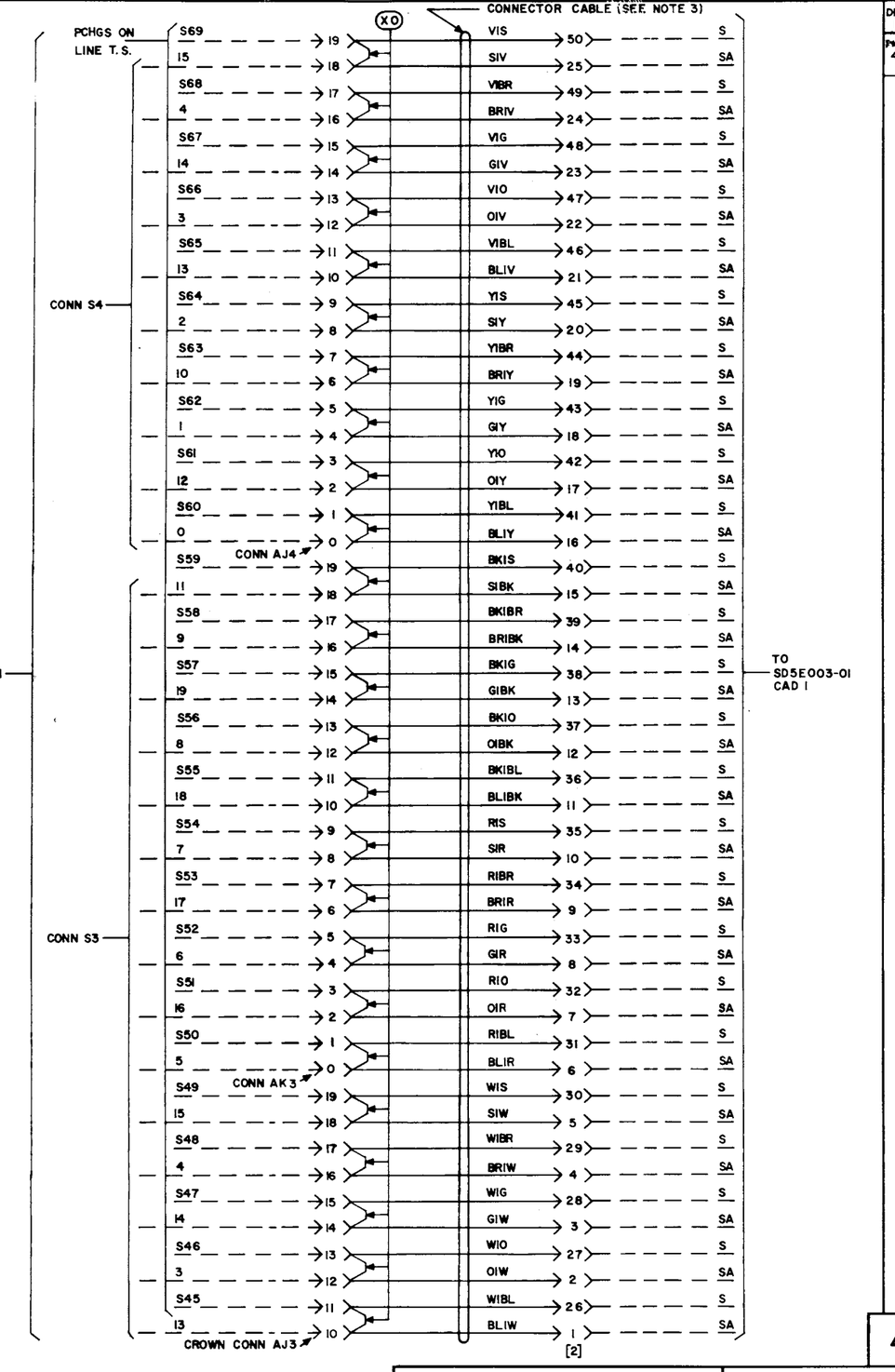


(XP) PART OF CAD 7
INWARD RESTRICTION FEATURE
SEE SD5E003-01

SHEET NOTES:
1. OPTION XO CONSISTS OF A KS14173 PLUG STRAPPED AS SHOWN.
2. OPTIONS XP & XO ARE SHOWN ON SD65741-01.
3. THE BLUE, ORANGE, AND GREEN SERVED CABLE GROUPS ARE TERMINATED TO CONNECTORS 1, 2 AND 3 RESPECTIVELY.



DRAWING ISSUE
PWJD 4D | EWE SJK KFJ

HW

4

PBX SYSTEMS
NO. 756A
FEATURE CABLING DIAGRAM (2)
SD-66920-01-G15

BELL TELEPHONE LABORATORIES INCORPORATED
DWG SIZE 6S
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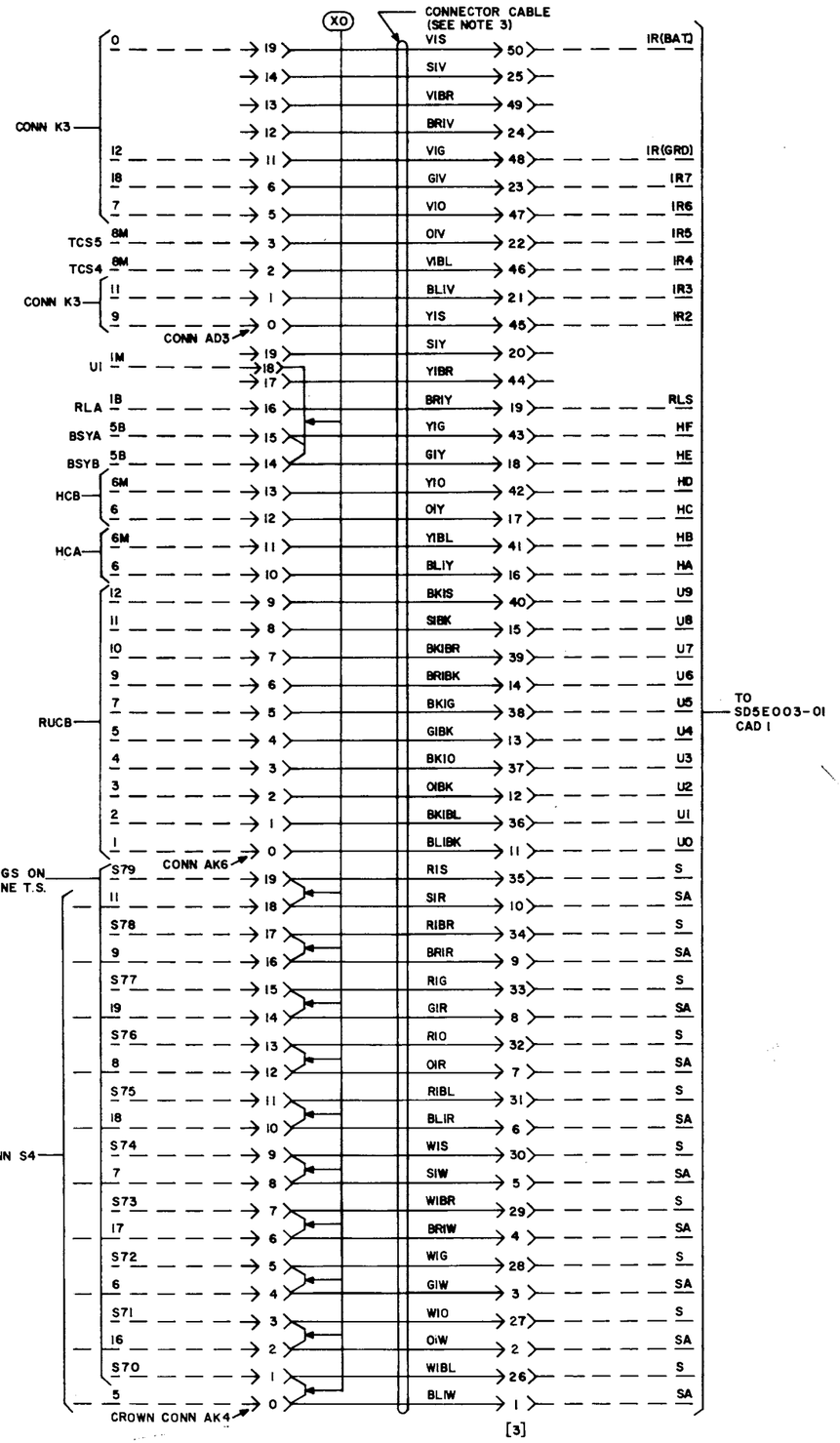
(XP) PART OF CAD 7

INWARD RESTRICTION FEATURE
SEE SD 5E003-01



SHEET NOTES:
1. OPTION XO CONSISTS OF A KS14173 PLUG STRAPPED AS SHOWN.
2. OPTIONS XP & XO ARE SHOWN ON SD 65741-01.
3. THE BLUE, ORANGE, AND GREEN SERVED CABLE GROUPS ARE TERMINATED TO CONNECTORS 1, 2, AND 3 RESPECTIVELY.

DRAWING ISSUE
4D EWS SAK KFJ HW

4

PBX SYSTEMS
NO. 756A
FEATURE CABLING DIAGRAM (2)
SD-66920-01-G16
BELL TELEPHONE LABORATORIES INCORPORATED
DWG SIZE 6S
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SD-66920-01-G16

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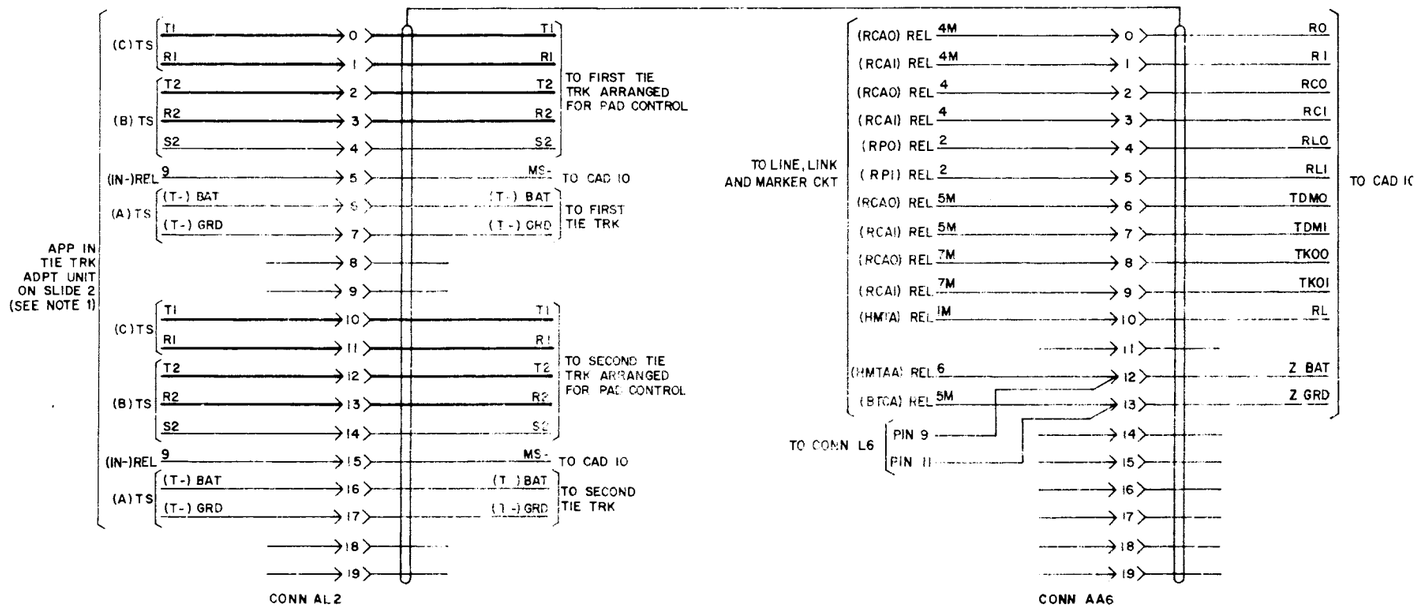
CAD 9

SUPPLEMENTARY HOUSE AND FEEDER CABLE
FOR USE WITH PAD CONTROL APPLIQUE UNIT
MOUNTED EXTERNALLY TO PBX



SHEET NOTES.

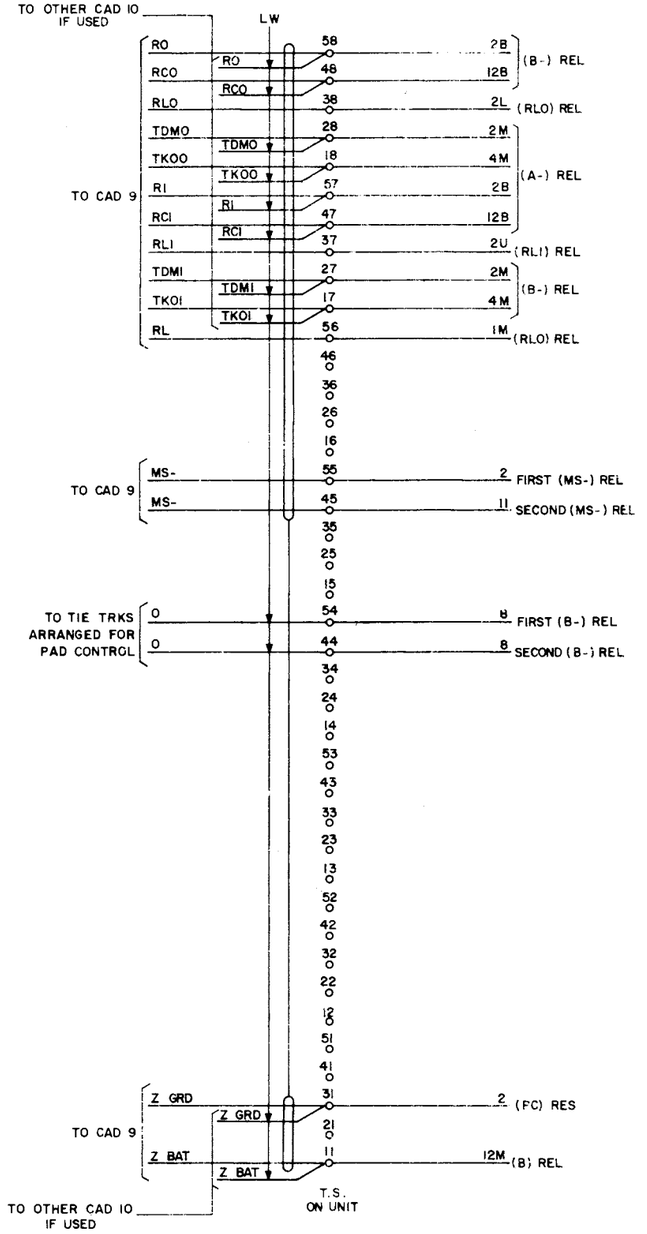
1. LEADS TO T.S. (A), (B), (C) AND (IN-)REL SHALL BE TIED BACK. INSTALLER SHALL OBTAIN TERMINATION ASSIGNMENT FROM TEL CO ENGINEER AT TIME OF INSTALLATION.

2. LEADS ARE ASSIGNED TO CABLE PAIRS AS FOLLOWS:

PLUG	PIN NO.	CABLE PAIR
AA6	0-19	1-10
AL2	0-19	11-20

CAD 10

FOR TIE TRUNK
APPLIQUE UNIT



DRAWING ISSUE		
9D	PJS SAK GFH	HW
14D	PMC PJS RHP	

14

FEATURE CABLING DIAGRAM (2) SD-66920-01-GI7

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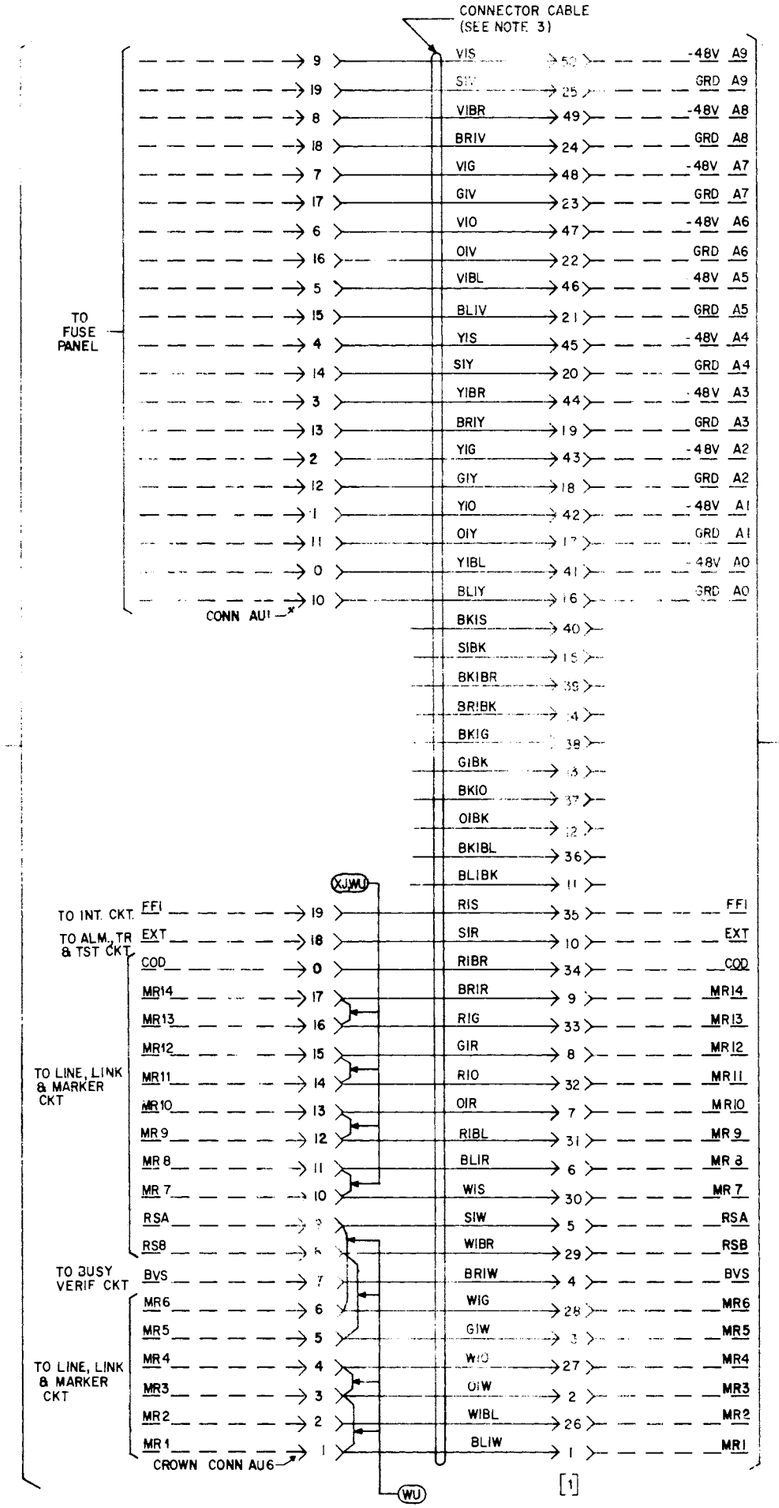
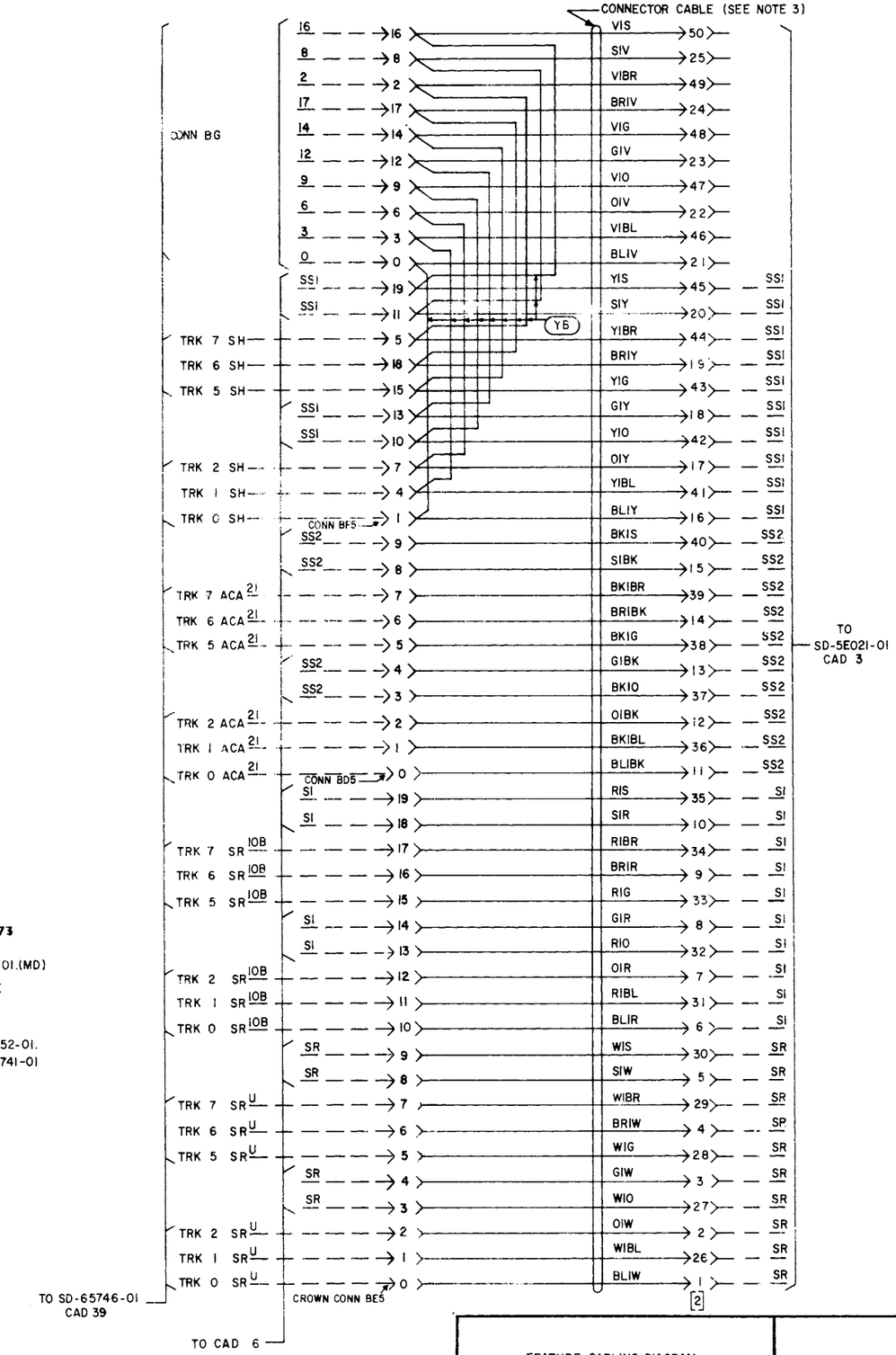
(YC,XK,WV) PART OF CAD 11

STATION MESSAGE REGISTER FEATURE
SEE SD-5E021-01



SHEET NOTES:

1. OPTIONS XJ,WU AND YB CONSIST OF A KS-14173 PLUG STRAPPED AS SHOWN.
2. OPTIONS XK AND XJ ARE SHOWN ON SD65741-01.(MD)
3. THE BLUE,ORANGE,AND GREEN SERVED CABLE GROUPS ARE TERMINATED TO CONNECTORS 1,2 AND 3 RESPECTIVELY.
4. OPTIONS YB AND YC ARE SHOWN ON SD65752-01.
5. OPTION WU AND WV ARE SHOWN ON SD-65741-01



DRAWING ISSUE

10D	P. GF TE
11D	PJ. RH
12D	RO PJ. RH
15D	PMK PJS RHP

FEATURE CABLING DIAGRAM (2)

BELL TELEPHONE LABORATORIES INCORPORATED

SD-66920-01-G18

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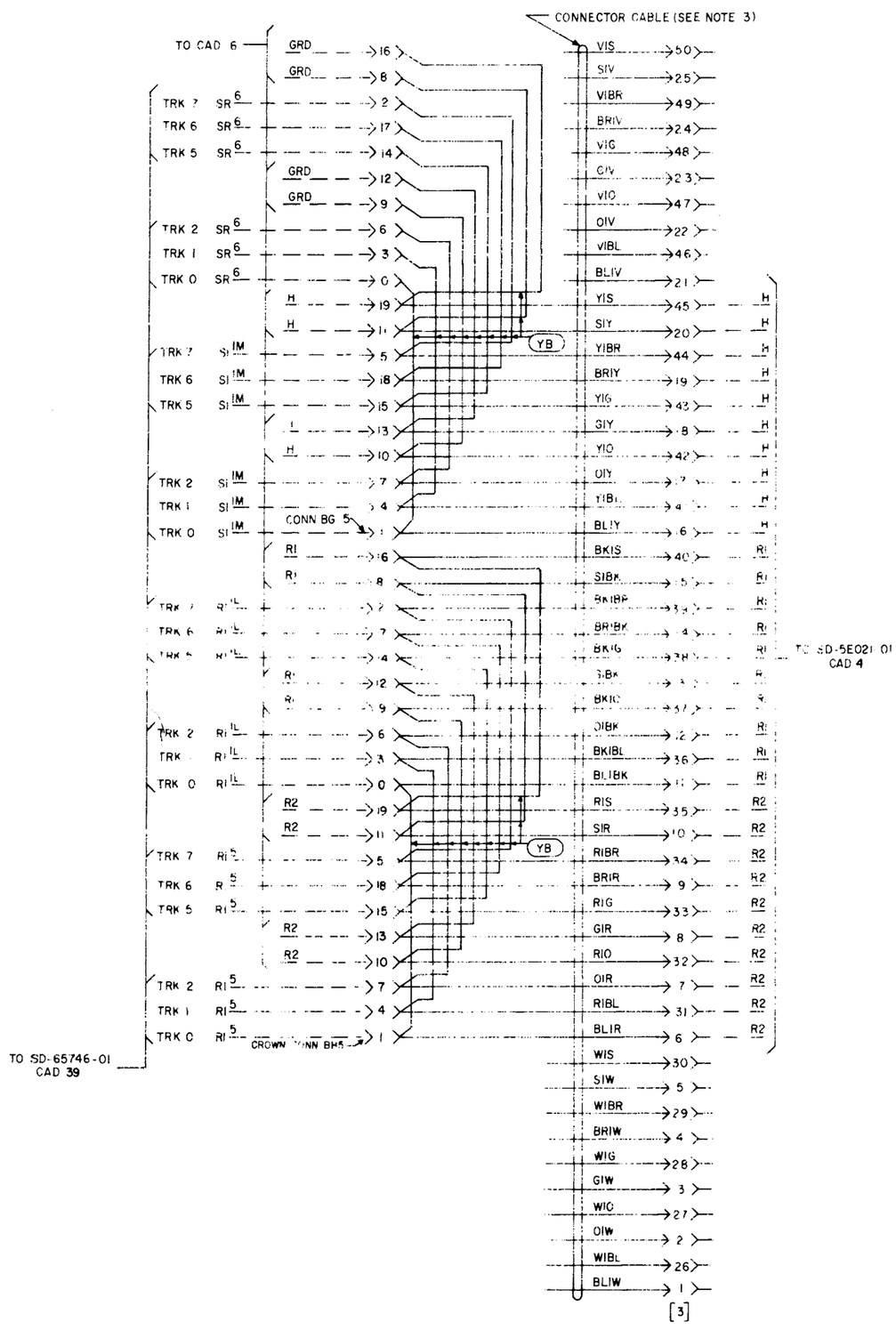
(YC,XK,WV) PART OF CAD 11

STATION MESSAGE REGISTER FEATURE
SEE SD-5E021-01



SHEET NOTES:

1. OPTION YB CONSISTS OF A K314173 PLUG STRAPPED AS SHOWN
2. OPTION XK IS SHOWN ON SD-65741-01 (MD)
3. THE BLUE, ORANGE, AND GREEN SERVED CABLE GROUPS ARE TERMINATED TO CONNECTORS 1, 2, AND 3 RESPECTIVELY
4. OPTIONS YB AND YC ARE SHOWN ON SD-65752-01
5. OPTION WV IS SHOWN ON SD-65741-01

DRAWING ISSUE	
10D	PJS SBK GFF
11D	TEF PJS RHP
13D	ROZ PJS RHP
15D	PMC PJS RHP

15

FEATURE CABLING DIAGRAM (2) SD-66920-01-G19

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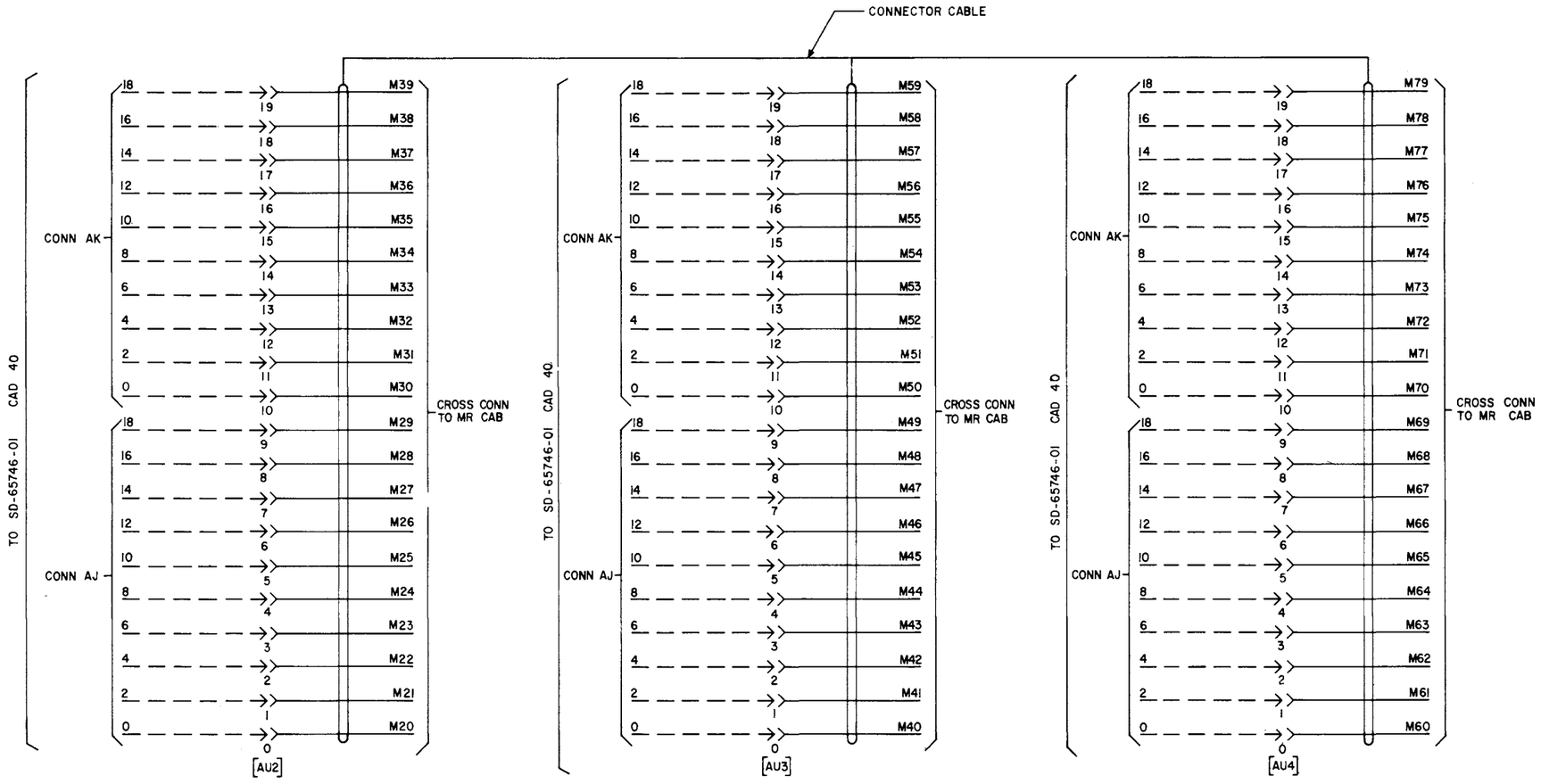
(XK,WV) CAD 12

STATION MESSAGE REGISTER FEATURE

SEE SD-5E021-01



SHEET NOTE

1. OPTION XK IS SHOWN ON SD-65741-01. (MD)
2. OPTION WV IS SHOWN ON SD-65741-01.

SD-66920-01-G20

15

FEATURE CABLING DIAGRAM (2) SD-66920-01-G20

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SD-66921-01-AI

SHEET INDEX

CONTENTS	SHEET NO.	ISSUE NO. 1	2	3	4	5	6	SHEET NO.
SHEET INDEX SUPPORTING INFORMATION	A1	1	2	3	4	5	6	A1
APPARATUS INDEX LEAD INDEX OPTION INDEX	A2	1	1	1	1	5	6	A2
FS 1 TIMING CIRCUITS FS 2 MARKER STARTING	B1	1	1	1	4	4	6	B1
FS 3 TIP, RING & SLEEVE CONTROL	B2	1	1	3	3	5	5	B2
FS 4 CALLING CONTROL FS 5 TRUNK PREFERENCE	B3	1	1	1	4	5	6	B3
FS 6 CLASS OF SERVICE	B4	1	1	1	1	1	1	B4
APP FIG. 1	C1	1	1	1	4	5	6	C1
CIRCUIT NOTES INFORMATION NOTES	D1	1	1	1	1	5	6	D1
SC 1 FIRST TRANSFER OF PARTY A STATION B AND PARTY A CONNECTED SC 2 STATION B TRANSFERS TO STATION C SC 3 CALLED STATION C ANSWERS SC 4 STATION B CALLS IN PARTY A SC 5 STATION C CALLS IN PARTY A SC 6 STATION B DISPOSES OF DIAL TONE OR PARTIAL DIAL	E1	1	1	1	4	4	6	E1
SC 7 STATION B DISPOSES OF DON'T ANSWER SC 8 STATION B DISPOSES OF BUSY LINE SC 9 STATION B DIALS 0 TO CALL THE ATTENDANT SC 10 ATTENDANT ANSWERS	E2	1	1	1	1	1	6	E2
SC 11 STATION B DIALS 9 SC 12 STATION B DISPOSES 120 IPM TONE BY FLASHING SC 13 STATION B DIALS A TIE TRUNK NUMBER SC 14 SECOND TRANSFER OF PARTY A STATION C & PARTY A CONNECTED SC 15 STATION C TRANSFERS TO STATION D SC 16 CALLED STATION D ANSWERS SC 17 STATION C DISPOSES OF DIAL TONE OR PARTIAL DIAL SC 18 STATION C DISPOSES OF DON'T ANSWER	E3	1	1	1	1	1	6	E3
SC 19 STATION C DIALS A BUSY STATION SC 20 STATION C DISPOSES OF BUSY LINE SC 21 STATION C DIALS 0 TO CALL THE ATTENDANT SC 22 ATTENDANT ANSWERS SC 23 STATION C DIALS 9 SC 24 STATION C DISPOSES 120 IPM TONE SC 25 STATION C DIALS A TIE TRUNK NUMBER	E4	1	1	1	1	5	6	E4
SC 26 STATION C HANGS-UP AFTER ANSWERING SC 27 STATION B HANGS-UP AFTER STATION C HAS ANSWERED SC 28 AFTER DIALING 0 STATION C DISCONNECTS BEFORE ATTENDANT ANSWERS	E5	1	1	1	1	1	6	E5
CIRCUIT REQUIREMENTS TABLE	F1	1	1	1	1	1	6	F1
CAD 1	G1	1	2	2	2	2	6	G1

SUPPORTING INFORMATION

CATEGORY	NO.
EQUIPMENT DWGS	J59329AG
EQUIPMENT DESIGN REQ	J58829

SHEET INDEX NOTES

1. WHEN CHANGES ARE MADE IN THIS DRAWING, ONLY THOSE SHEETS AFFECTED WILL BE REISSUED.
2. 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.
3. THE ISSUE NUMBER ASSIGNED TO A CHANGED OR NEW SHEET WILL BE THE SAME ISSUE NUMBER AS THAT OF THE SHEET INDEX.
4. SHEETS THAT ARE NOT CHANGED WILL RETAIN THEIR EXISTING ISSUE NUMBER.
5. THE LAST ISSUE NUMBER OF THE SHEET INDEX IS RECOGNIZED AS THE LATEST ISSUE NUMBER OF THE DRAWING AS A WHOLE.

DWG ISSUE	CD ISSUE	DATE ISSUED	DRAWN	APPD
1	1	3-20-64	SAK JFF EC	SAM RAV KFJ
2	1 APP 1D	3-24-65	DWY SAK JFF	— RAV GFH
3	1 APP 2A	10-28-65	DWY RKU WES	— RAV GFH
4A	1 APP 3A	2-14-66	PJS SAK	WES RAV GFH
5AC	1 APP4AC	2-14-66	PJS SAK	WES RAV GFH
6D	1 APP5D	4-12-67	BCM PJS UT	JJM LAH RHP

PBX SYSTEMS
NO. 756A
STATION DIAL TRANSFER
TRUNK CIRCUIT
WITH ADD-ON CONFERENCE (2)

AT & T CO.
STANDARD

SD-66921-01-AI
15 SHEETS

BELL TELEPHONE LABORATORIES
INCORPORATED

DWG SIZE 6S

SD-66921-01-AI

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APPARATUS INDEX

DESIGG	LOCATION FS	APP FIG.	EQPT
RELAYS			
B	2C4	1	
BA	1D4	1	
BB	1C7	1	
BY	3H2	1	
C	2D4	1	
CA	1D1	1	
CB	1D2	1	
CTD	3F2	1	
CTZ	1B6	1	
DBO	4A3	1	
DB9	4B3	1	
DB9A	4A5	1	
DCO	4A3	1	
DC9	4B3	1	
DC9A	4A6	1	
DLB	1E6	1	
DLBA	3F3	1	
DLC	1E1	1	
HM	3E5	1	
MBT	**3F5**	**1**	
MC	3D2	1	
MCA	3E2	1	
MCB	3D2	1	
P	2E3	1	
PA	4G5	1	
RLBY	4C5	1	
RLDT	4B6	1	
RLS	3A1	1	
RS	3G2	1	
RT	2D2	1	
SL	2G2	1	
STB	3B3	1	
STC	3F2	1	
TT	4H3	1	
TTA	4H3	1	
TTF	4F4	1	
TTR	4E4	1	
W	1A6	1	

CAPACITORS			
BT	2B3	1	
DB	1E6	1	
DC	1E2	1	
FB	2F2	1	
RB	2F4	1	
RC	2F4	1	
TB	2C5	1	
TC	2C4	1	

DESIG	LOCATION FS	APP FIG.	EQPT
CONNECTORS			
J1	1E7	1	
J2	1E2	1	
J3	**1E2,7**	**1**	

DIODES			
A	2E2	1	
B	2E2	1	
DLB	1E6	1	
DLC	1E1	1	
MC	3C3	1	
PR	1D7	1	
RR	4B7	1	

INDUCTORS			
B	2D5	1	
C	2E3	1	

NETWORKS			
B	2D5	1	
C	2D3	1	
DBO	4A3	1	
DB9	4B3	1	
DCO	4A3	1	
DC9	4C3	1	
HM	3E6	1	
PA	4F5	1	
STB	3B3	1	
TT	4G3	1	
TTA	4H3	1	
TTR	4E4	1	

DESIG	LOCATION FS	APP FIG.	EQPT
RELAY TIME DELAY CKTS			
B	1E7	1	
C	1E3	1	
D	1E3,7	1	

RESISTORS			
DB	1F6	1	
DC	1F2	1	
PD	2G3	1	
SH	2G1	1	
W	1A7	1	

THERMISTORS			
PA	4G6	1	
TR	4E4	1	

LEAD INDEX

DESIG	FS LOC
LINE, LINK AND MARKER CKT	
CCC	3D1
DB	4D2
DC	4E2
DE	4F2
DG	4G2
DO	4A2
D8	4H2
D9	4B2
FFE	3H1
FFO	3H1
RLSE	3D1
RLSO	3D1
RSE	3G1
RSO	3G1

POWER SUPPLY CKT	
FT	2B3
RG GRD	2B2
RI	2B2

STA DIAL TR CONTROLLER CKT	
ATB (SEE NOTE 2)	3D6
COO	4D7
GP (SEE NOTE 1)	3A6
GRD	3F6
HM	3E7
HMPA (SEE NOTE 1)	3B6
HMPB (SEE NOTE 2)	3D6
MCC	3D4
ONG	3G6
PA	4G7
PB	4G7
PR	1D9
R	2F1
RA	2F6
RB	2F6
RLDT	4B7
RLS	2C7

CONTINUED

DESIG	FS LOC
STA DIAL TR CONTROLLER CKT (CONT)	
S	2G1
ST	3G6
STB	3B4
T	2G1
TA	2B6
TB	2C6
TRF	1G7
TR1A	1G1
TRU	1G7

MB AND BY DISPL CKT	
HM	3F4
MBT	3F5

OPTION INDEX

APP OR WRG	LOCATION
Z	2C5,2D3,2D4,2D5,3D2, 3D3,3G5
Y	2C4,2C5,2D4,2E4,3D2, 3D3,3G4,3G5
X	ID2,IE1,IE2,IE6,IE7,3A7, 3A8,3B7
W	ID2,IE1,IE2,IE6,IE7,3A7 3B7,3B8,3B9,3C7,3E6

SHEET NOTES

1. FROM TRANSFER TRUNK "0".
2. FROM TRANSFER TRUNK "1".

DRAWING ISSUE	
1	SAK JRF KRJ HW
RAW 5AC	PJS SAK GFH
6Q	BCM PJS RHF

6

STATION DIAL TRANSFER TRUNK CIRCUIT WITH ADD-ON CONFERENCE (2)

SD-66921-01-A2

BELL TELEPHONE LABORATORIES INCORPORATED

DWG SIZE 6S

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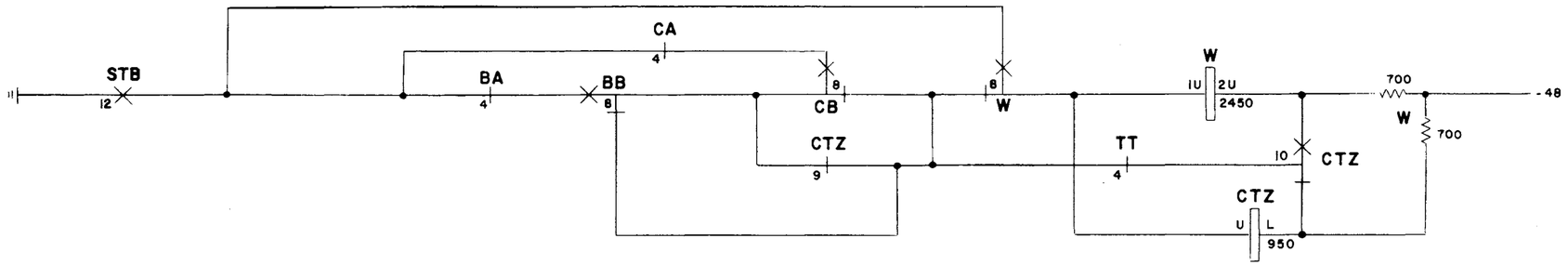
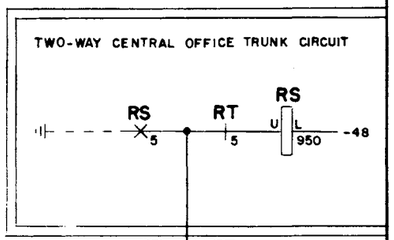
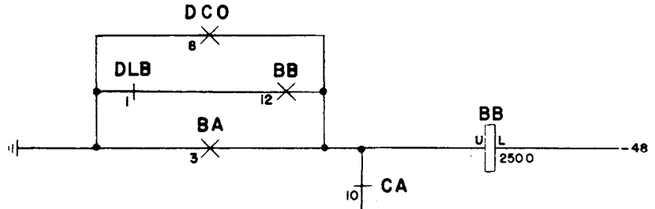
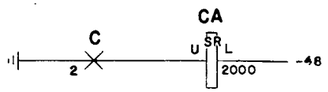
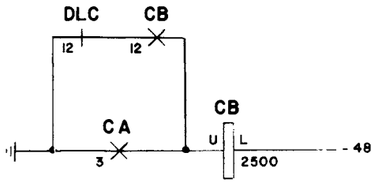
FS 1
TIMING CIRCUITS

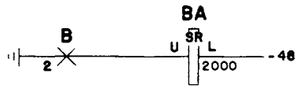


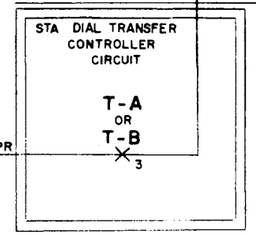


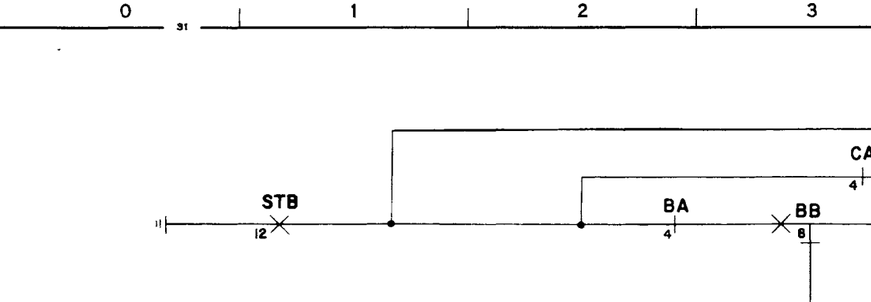


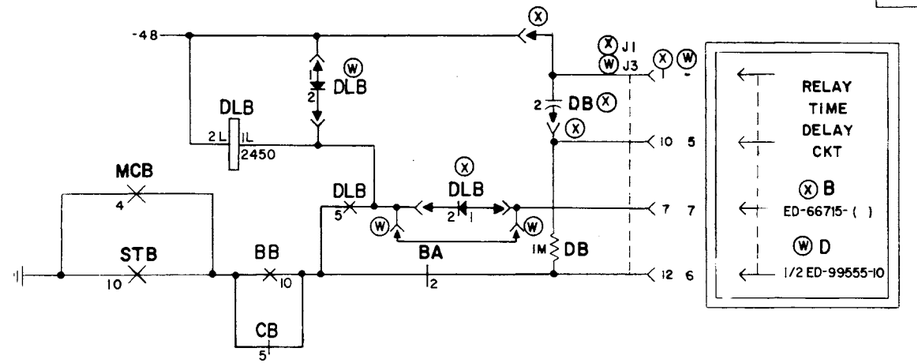




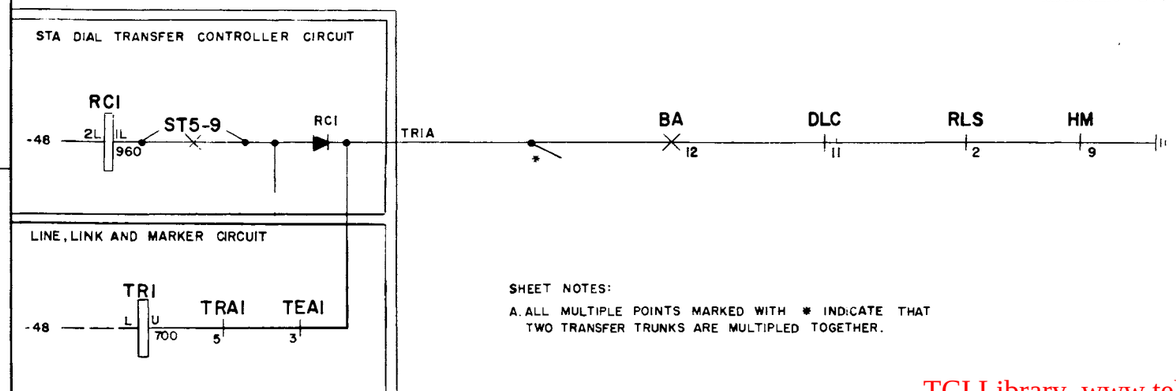


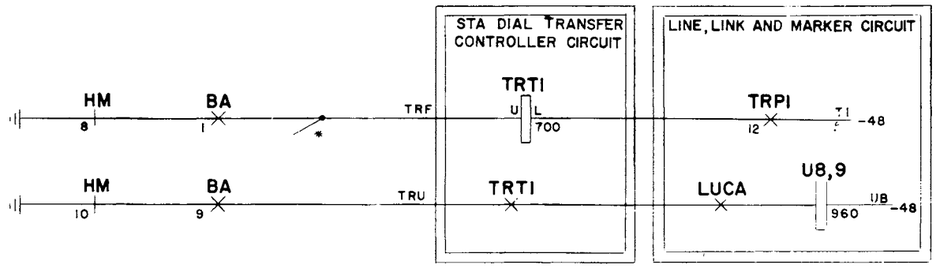






FS 2
MARKER STARTING





SHEET NOTES:

A. ALL MULTIPLE POINTS MARKED WITH * INDICATE THAT TWO TRANSFER TRUNKS ARE MULTIPLED TOGETHER.

DRAWING ISSUE		
1	RWP UFF KFJ	
4A	PJS SAK GFH	HW
6D	BCM PJS RHP	

STATION DIAL TRANSFER TRUNK CIRCUIT

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FS 3
TIP, RING & SLEEVE CONTROL

DRAWING ISSUE		
1	SAK	HW
3A	DMY RKU GFH	
5AC	PJS SAK GFH	

DIAL TRANSFER CONTROLLER CIRCUIT

TO LINE, LINK AND MKR CKT

L9 L2 L1 L0

0 1 2 3 4 5

RINGING CIRCUIT (INTERRUPTER)

120 IPM TONE

RG GRD RI FT

BT .05

MC

RS DB9A

T R S P

TC TB DC9A

CTZ

STC

RT P-220 S-1150

C P B W

B MCA MCB P-400 S-400

C PA B

C INDR B INDR 250

FB 0.04

A MC P 2450

SL 145

PD 800

-48

BY 10

SH 100

RC RB DC9A

CTZ

MCB

DIAL TRANSFER CONTROLLER CKT

T-A OR T-B

TA TB RA RB

TR-

TWO-WAY CO TRK CKT

TO LINE, LINK AND MKR CKT

A MC FB RV P B AC HD HI RS

ACA

TO CDLS POS CKT

TT C H

TO CENTRAL OFFICE

SHEET NOTES:

A. ALL MULTIPLE POINTS MARKED # INDICATE THAT TWO TRANSFER TRUNKS ARE MULTIPLED TOGETHER.

5

STATION DIAL TRANSFER TRUNK CIRCUIT (2)

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FS 4
CALLING CONTROL

FS 5
TRUNK PREFERENCE

LINE, LINK AND MARKER CIRCUIT

STA DIAL TRANSFER CONTROLLER CKT

TRFR TRK NO. 0

TRFR TRK NO. 1

GP TO CONT CKT
OR TC TO TRK NO. 0

HMPA OR HMPB
TO CONT CKT

TC TO TRK NO. 1 OR
ATB TO CONT CKT

TWO WAY C.O. TRK CKT

MAKE BUSY & BUSY DISPLAY CKT

TWO-WAY CO TRK CKT

SHEET NOTES:

A. ALL MULTIPLE POINTS MARKED * INDICATE THAT TWO TRANSFER TRUNKS ARE MULTIPLED TOGETHER.

B. E LEADS ARE ASSOCIATED WITH TRANSFER TRUNK 0. O LEADS ARE ASSOCIATED WITH TRANSFER TRUNK 1.

DRAWING ISSUE

1	SAK JFF KFJ
4A	PJS SAK GFH
5AC	PJS SAK GFH
6D PM	BCM PJS RHP

STATION DIAL TRANSFER TRUNK CIRCUIT (2)

SD-66921-01-B3

BELL TELEPHONE LABORATORIES INCORPORATED

DWG SIZE 6S

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6

SD-66921-01-B3

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FS6
CLASS OF SERVICE

LINE, LINK AND MARKER CIRCUIT

TKBO 5 — DO * — MC 3 — DBO U L 700 — -48
DBO 6 — DCO 6 — MCA 10 — DCO U L 700 — -48
DB9 4 — DB9A IL 2L 640 — -48
RLS 4 — DB9A 1
DC9 4 — DC9A IU 2U 640 — -48
DLBA 4 — DC9A 12

TKB9 5 — D9 * — MC 9 — DB9 U L 700 — -48
DB9 6 — DC9 6 — MCA 8 — DC9 U L 700 — -48

DBO 1 — DCO 1 — DB9 1 — DC9 1 — DB * — -48
DBO 2 — DCO 2 — DB9 2 — DC9 2 — DC * — -48
DBO 3 — DCO 3 — DB9 10 — DC9 10 — DE * — -48
DBO 4 — DCO 4 — DB9 12 — DC9 12 — DG * — -48

ACA U L 1000 — -48 TACB 8 — -48 TACA 8
TACB 7 — TACA 7 — ACB U L 1000
5 TRAL
6 LUCA
6 ALBB
TACB 5
7 TRAL — 10 TRCBA — 6 LUCB
6 TACA — 6 TACB
TACA 5
6 ALBA — 10 TRCAA

TKB8 9 — D8 * — MC 2 — TT IL 2L I 2450 — -48
TT 5 — STB 2
MCA 9 — TTA U L I 2500 — -48 RLDT 8
DCO 12 — TTA 10 — CTZ 3 — STC 1

TTR 2U IU 2450 I — TTR 8 — TR T — -48
TTF 2L IL 680 — -48
1 P — 1 TT — 9 W

RLDT 2U IU 960 — CA 8 — RR 2 H 1 RLDT — -48
9 RLDT — 10 DLBA — 2 PA — 2 TTA
6 DLBA — 1 RLBY
RLBY 2L IL 960 — -48 — CA 12 — B 4 RLS

DBO 10 — DCO 10 — TTF 5 — BB 7 — 8 P — COO
1 TT — 9 W

PA I 2L IL 2450 — -48 — PA 5 — PA T — TTA 4 — PA
TTA 4 — PB

SHEET NOTES:

A. ALL MULTIPLE POINTS MARKED * INDICATE THAT TWO TRANSFER TRUNKS ARE MULTIPLED TOGETHER.

B. E LEADS ARE ASSOCIATED WITH TRANSFER TRUNK 0.
O LEADS ARE ASSOCIATED WITH TRANSFER TRUNK 1.

STA DIAL TRANSFER CONTROLLER CIRCUIT

ST- — T-A OR T-B 5 — RLDT
ATB 12 — TP- — T-A OR T-B 14 — AR- U L 700 — -48 — AR- 6
AR- — T-A OR T-B 15 — ST-
AR- — AC 7 — HD 8
AC 9
T-A OR T-B 13 — TR- 4
T-A OR T-B 17 — TR- 11 — RT 2
T-A OR T-B 18 — PB

TWO-WAY C.O. TRK CKT

TO LINE, LINK AND MKR CKT
4 HM — ACA 13
FF U L 700 — -48
MC — SR RT S
AC 7 — HM 12 — RS 3 — HD U L 700 — -48

DRAWING ISSUE 1 RLE WFF WFJ

PBX SYSTEMS STATION DIAL TRANSFER TRUNK CIRCUIT (2)	SD-66921-01-B4
BELL TELEPHONE LABORATORIES INCORPORATED	SHEET CODE 6S

1

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APP FIG. I

RELAY

DESIG	B		BA		BB		C		CA		CB		CTD		TT		CTZ		DBO		DB9				DESIG
CODE	AJ52		AG20		AF13		AJ52		AG20		AF13		AK4				AF98		AF34		AF16				CODE
OPTION																									OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12			M	1G2	EM	1C6			M	4G6	EM	1C2	M	3F1					M		M	4G2			12
11			M	3F6					M	3G6			EBM						M						11
10	M	2D3	EBM		M	1F5	M	2D5	EBM	1C6	M	1F1	EBM				EBM	1B6	M	4D6	M	4F2			10
9			M	1G6					M				EMB				B	1B4							9
8	EMB		EMB		EBM	1A3	EMB		EMB	4G6	EBM	1A4	EMB	3F2			EBM	2F5	M	3G2	EBM				8
7					B	4E6					B						B	3G5	B						7
6	EMB		EMB	3B1	EMB		EMB		EMB	3F4	EMB	3F1					EMB		M	4A2	EBM	4B2			6
5					B	3C6					B	1F5			EMB	4H3	B	3J3							5
4	EBM	4C7	EBM	1A2	M	3D3	EBM	3E2	EBM	1A3	M	3B3			EMB	1B5	EBM	2B5	M	4F2	EBM	4A4			4
3			M	1C5					M	1D2					EBM	3B3	B	4H3	M	4E2					3
2	M	1D3	EBM	1F6	M	3B2	M	1D0	EBM	1F0	M	3E3			EBM	3D2	M		M	4D2	M	4E2			2
1			M	1G6	M	1E0			M		M	3G5			M	4E5			M	4C2	M	4C2			1
COIL		2C4		1D4		1C7		2D4		1D1		1D2		3F2		4H3		1B6		4A3		4B3			COIL

RELAY

DESIG	DJ9A		DC9A		DCC		DC9		DLB		DLC		DLBA		HM		MCB		MC		P		PA		DESIG
CODE	AK30		AF34		AF16		AK24				AG47		AK4						AF100		AK4				CODE
OPTION																									OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12			M	4A6	M	4H2	M	4G2			BM	1C2	EMB	3E3	M	3E6			EMB	2B2	M	3D1			12
11			EBM	2C5	M						BM	1G3			EBM	3A9			M		EBM	2D3			11
10			EBM	3G5	M	4D6	M	4F2					E3	4J6	EBM	1G5			EBM	3J1	EBM	1J1			10
9			EBM	2F2							M	3F6			EBM	1G4			M	4J7	EMB				9
8			EMB	1C6	M	1C5	EBM				M	1E0	EB	3F6	EMB	1G5			EBM	2E7	EMB	4E5			8
7					B		B																		7
6					M	4A2	EBM	4B2					EMB	4B6					EMB	3D1					6
5	EMB								M	1E6							EBM	3C7					EBM	4C5	5
4	EMB	3D2			M	4F2	EBM	4A6	M	3F6			EBM	4A6			EBM	1L4	EBM	3B2			EBM		4
3	EBM				M	4E2											EBM	3G6	M	4A3			EBM		3
2	EBM	2C3			M	4D2	M	4E2	BM	a							EBM	2E5	EBM	4H7			EBM	4J6	2
1	M	4A6			M	4C2	M	4D2	BM	1C5							M	2C5	M	3C2			M	2D5	1
COIL		4A5		4A6		4A3		4B3		1E6		1E1		3F3		3E5		3D2		3C2		2E3		4C5	COIL

a 3C2 3E3

CAPACITORS

DESIG	LOC	CODE
BT	2B3	441M
(1) DB	1E6	437E
(X) DC	1E2	
FB	2F2	441U
(1) JB	2F4	437E
TB	2C5	
(1) RC	2F4	437E
TC	2C4	

CONNECTORS

DESIG	J1	J2	J3
CODE	KS-19198-L1 CONNECTORS		910A CONN
OPTION	X	X	W
12	1F7	1F2	
11			
10	1E7	1E2	
9			
8			
7	1E7	1E2	1E7
6			1F7
5			1E7
4			1E2
3			1E2
2			1F2
1	1E7	1E2	1E2

DIODES

DESIG	LOC	CODE
A	2E2	446F
B	2E2	"
(X) DLB	1E6	"
DLC	1EJ	446F
(W) DLB	1E6	458A
DLC	1E1	"
MC	3C3	446F
PR	1D7	"
RR	4B7	"

INDUCTORS

DESIG	LOC	CODE
B	2D5	274J
C	2E3	274J

RELAY

DESIG	RLDT		RL3Y		RLS		aY		RT		SL		MCA		STB		STC		TTA		TTF		TTR		DESIG
CODE	AK11				AK4				AJ58		AK31				AF83		AF64		AF9		AK35				CODE
OPTION																									OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	M	3G3					M	3C1	EM	2D2			BM	2D4	M	1A1	EMB	5G2	EM				M	3B1	12
11							EBM		B				BM	3D1	M	3D3	M	2D3					EBM		11
10							EBM	2G2	M				BM	4A2	M	1F4	M	3D4	M	4H3			EBM		10
9	EMB	4B6					EMB		BM				BM	4H2	M		BM		B	3E1			EMB		9
8	B	4H4					EMB	3H2					BM	4G3	M	1F0	M	2C2	EBM				EMB	4E4	8
7									B	3G2					M		BM		B	3D3					7
6															M	3F6	EMB	2E3	EMB						6
5			B	3D3	EM3	3B2			B						M	3H2	BM	2F3	B	3G6	EMB	4E5			5
4			EMB	3G4	EMB	4A4			M	3F2					M	3F1	M	3E6	EBM	4G6	EMB				4
3					EBM	3J4			BM		B				M	3C4	BM	3D3			EBM				3
2					EBM	1G4			M		M	3E6			M	4H4	M	3F2	M	4B6	EBM				2
1			M	4C6	M				M		M	3C2			M	3C4	M	4H4			M				1
COIL		4B6		4C5		3A1		3H2		2D2		2G2		3E2		3J3		3F2		4H3		4F4		4E4	COIL

RELAY

DESIG	W		RS		MBT																				DESIG
CODE	AK4				AK4																				CODE
OPTION					W																				OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	M	2C3			M																				12
11	EBM	3G4			EBM	3F4																			11
10	EBM	3B1			EBM	3B8																			10
9	EMB	4E5			EMB																				9
8	EMB	1A5			EMB																				8
7																									7
6																									6
5			EMB	3G2			EMB																		5
4			EMB	3C1			EMB																		4
3			EBM	2F2			EBM																		3
2			EBM	2C2			EBM																		2
1			M	3F2			M																		1
COIL		1A6		3G2		3F6																			COIL

NETWORKS

DESIG	LOC	CODE
B	2D5	185A
C	2D3	185A
DBO	4A3	185A
DB9	4A3	185A
DCO	4A3	185A
DC9	4C3	185A
HM	3E4	185A
PA	4F5	185A
STB	3B3	185A
TT	4G3	185A
TTA	4H3	185A
TTR	4E4	185A

RELAY TIME DELAY CKTS

[2] (X) SD-66793-01 [ED-66715-( )]
(W) SD-99361-01 [ED-99555-10]

RESISTORS

DESIG	LOC	CODE
DB	1F6	145A, 1MEG
DC	1F2	145A, 1MEG
PD	2D3	110F
SH	2C1	193K
W	1A7	193L

THERMISTORS

DESIG	LOC	CODE
PA	4G6	1F
TR	4E1	1F

DRAWING ISSUE

1	WRA JFF KFJ	HM
4A	PJS SAK GFH	HM
5AC	PJS SAK GFH	A
6D	BCM PJS RHP	

SD-66921-01-CI

STATION DIAL TRANSFER TRUNK CIRCUIT 2

BELL TELEPHONE LABORATORIES INCORPORATED

DWG SIZE 6S

SD-66921-01-CI

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CIRCUIT NOTES:

101.

DESIG	FUSE AMP	POTENTIAL	ONE PER
TO	1-1/3	-48	TRFR TRUNK CKT NO. 0
T1	1-1/3	-48	TRFR TRUNK CKT NO. 1
T		GRD	TRFR TRUNK CKTS NO. 0,1

BATTERY SYMBOL	VOLTAGE RANGE
-48	45-52

102.

FEATURE OR OPTION	PROVIDE		
	APP FIG.	APP OR WRG	QUANTITY
STATION DIAL TRANSFER TRUNK CIRCUIT	1		2 PER PBX

103.

NETWORK VALUES		
NETWORK NO.	RESISTANCE IN OHMS	CAPACITANCE IN UF
1	470	0.11
2	120	0.3

104.

RECORD OF APP FIG. 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	
5AC	Y OR Z	Z	105	Y		Z	
6D	W OR X	X		W		X	

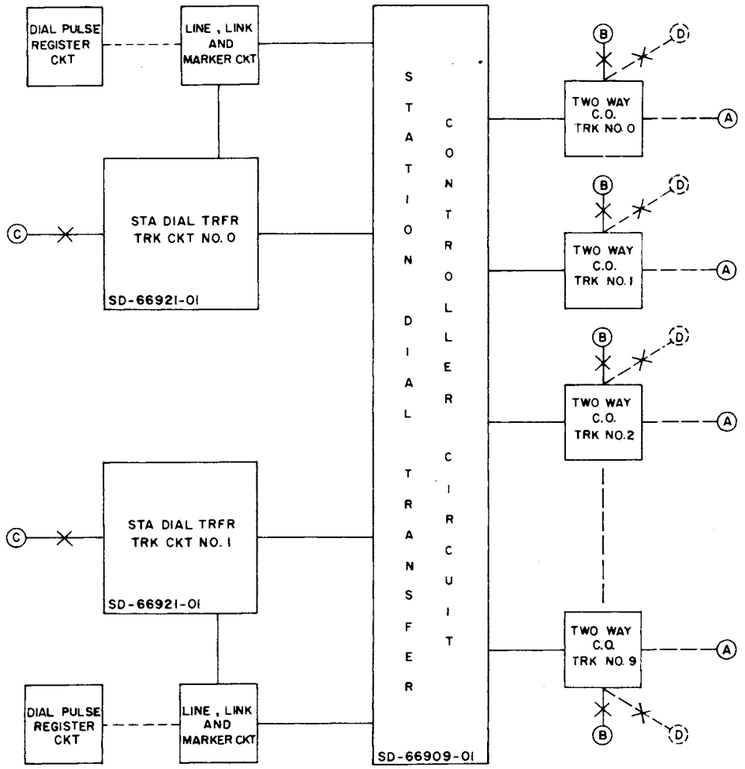
105. TO ARRANGE CIRCUITS MANUFACTURED PRIOR TO ISSUE 5AC FOR TOUCH TONE CALLING, REMOVE OPTION Z AND ADD OPTION Y.

INFO NOTES:

301. BLOCK DIAGRAM OF STATION DIAL TRANSFER CIRCUITS

CHART A

Ⓐ: OUTSIDE PARTY Ⓑ, Ⓒ, Ⓓ: PBX STATIONS



302. UNLESS OTHERWISE SPECIFIED:
RESISTANCE VALUES ARE IN OHMS.
CAPACITANCE VALUES ARE IN MICROFARADS.
VALUES PRECEDED BY THE SYMBOL — (MINUS) ARE IN VOLTS.

303. PBX STATION CONNECTIONS MARKED X INDICATE CROSSBAR CONNECTIONS.

DRAWING ISSUE	
1	RAP WFF KFJ HW
5AC	PJS SAK GFH
6D	BCM PJS RHP

6

STATION DIAL TRANSFER TRUNK CIRCUIT (2)

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DRAWING ISSUE
1 PFD JFF KFJ
4A PJS SAK GFH
6D BCM PJS RHR

SC 1

FIRST TRANSFER OF PARTY A
STATION B AND PARTY A CONNECTED
(PREVIOUS ACTION SHOWN IN SCI–8
TWO WAY TRUNK CIRCUIT TO CENTRAL OFFICE)

STATION B FLASHES

S
SI
END OF FLASH → FF — C.O. TRUNK
S
SI
DR

CONTROLLER ATTACHED

TP — CONTROLLER CKT
GP
T — A

STA DIAL TRF TRK ATTACHED

STB
MCB — START TIME DELAY CKT B
B
BA
BB — TIME DELAY CKT B NORMAL
TR — (CONTR)
FF — C.O.
DR
TP — (CONTR)
TRI (MKR)
MKR
SMC9 (CONTR)
MKR
THM90,1
HM
DLTR LAMP (MB CKT)
L (REG)
SR (REG)
SL — DIAL TONE
SR
GP (CONTR)

SC 2

STATION B TRANSFERS TO STATION C
PREVIOUS ACTION SHOWN IN SCI

DC (REG)
RV (REG)
P
MC
CCC (MKR) — P
MKR
SMTA, B (MKR)
SMRA, B (MKR)
RS
CTD
STC
SL
MKR
RLAA, BA (MKR)
MC

RINGING APPLIED

SC 3

CALLED STATION C ANSWERS

RT
RS
C
CA
CB
CTD

STATIONS B & C CONNECTED

SC 4

STATION B CALLS IN PARTY A

STATION B FLASHES

B
BA
END OF FLASH → W
B
BA
CTZ

STATIONS B & C & PARTY A
CONNECTED

SC 5

STATION C CALLS IN PARTY A

STATION C FLASHES

C
CA
END OF FLASH → W
C
CA
CTZ

STATIONS B & C & PARTY A
CONNECTED

SC 6

STATION B DISPOSES OF DIAL TONE
OR PARTIAL DIAL
PREVIOUS ACTION SHOWN IN SCI

STATION B FLASHES

B
SL — BA — END OF FLASH
B
RLS — BA
STB
CONTROLLER RELEASED
TR — (CONTR)
T — A (CONTR)
B
BA
DLB
BB — MCC
SL — THM90,1 (CONTR) — HM — DLTR LAMP (MB CKT)

STA. DIAL TRF TRK &
REGISTER RELEASED
STATION B & PARTY A CONNECTED

6

STATION DIAL TRANSFER TRUNK CIRCUIT 2	SD-66921-01-EI
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DRAWING ISSUE
1 JFF KFJ HW
6D BCM PJS RHP

SC 7

STATION B DISPOSES OF DON'T ANSWER
PREVIOUS ACTION SHOWN IN SC2

STATION B FLASHES

B
RS — BA — END OF FLASH
RLS — B
BA
STB
CONTROLLER RELEASED
T — A — TR — (CONTR)
B
BA
DLB
BB — MCB
STC
CTD
RS
THM90,1 (CONTR) — HM — DLTR LAMP (MB CKT)

STA DIAL TRF TRK & REGISTER RELEASED
STATION B & PARTY A CONNECTED

SC 8

STATION B DISPOSES OF BUSY LINE

STATION B FLASHES

B
BY — BA — END OF FLASH
RLS — B
BA
STB
CONTROLLER RELEASED
T — A (CONTR) — TR — (CONTR)
B
BA
DLB
BB — MCB
BY
THM90,1 (CONTR) — HM — DLTR LAMP(MB CKT)

STA DIAL TRF TRK & REGISTER RELEASED
STATION B & PARTY A CONNECTED

SC 9

STATION B DIALS 0 TO CALL THE ATTENDANT
PREVIOUS ACTION SHOWN IN SC1

DC (REG)
RV (REG)
P
MC
MKR
CCC (MKR) — TKBO (MKR)
P
DBO (MKR)
RLS — ACA, B (MKR)
AR (CONTR) — RLA, B (MKR)
LAMP SL FLASHES AT 120 IPM CONTINUOUS RING
STB — MARKER RELEASE
CONTROLLER RELEASED
T — A (CONTR) — TR — (CONTR)
B
BA
DLB
BB — MCB
HM — THM90,1 (CONTR) — DLTR LAMP(MB CKT)

STA DIAL TRF TRK & REGISTER RELEASED

SC 10

ATTENDANT ANSWERS
PREVIOUS ACTION SHOWN IN SC9

PU (CDLS POS) KEY
ACA
AC — C.O. TRK
AR — (CONTR)
SL — BZ (CDLS POS CKT)
LAMP STEADY
SILENCES SIGNAL
STATION B, PARTY A & ATTENDANT CONNECTED

STATION DIAL TRANSFER TRUNK CIRCUIT (2)
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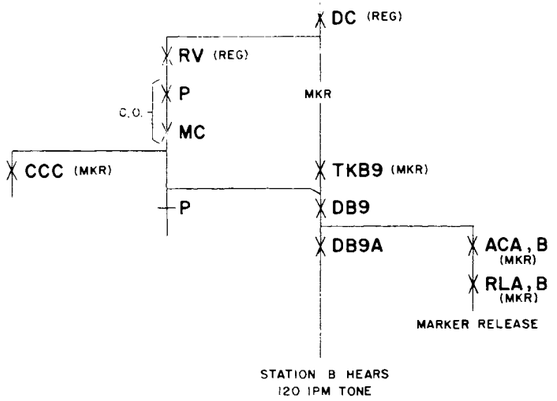
DRAWING ISSUE
1 PFD WFF KJ
6D TEF FJS RHB

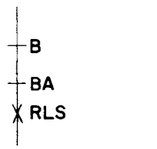
SC 11

STATION B DIALS 9
PREVIOUS ACTION SHOWN IN SC1



SC 12

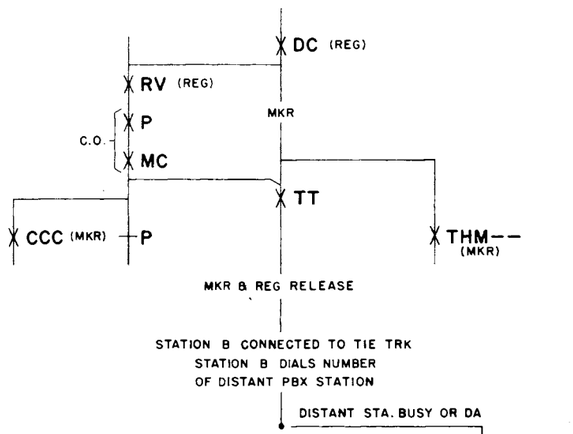
STATION B DISPOSES
120 IPM TONE BY FLASHING
PREVIOUS ACTION SHOWN IN SC11



SAME AS SC8
STA DIAL TRF TRK &
MARKER RELEASED
STATION B & PARTY A CONNECTED

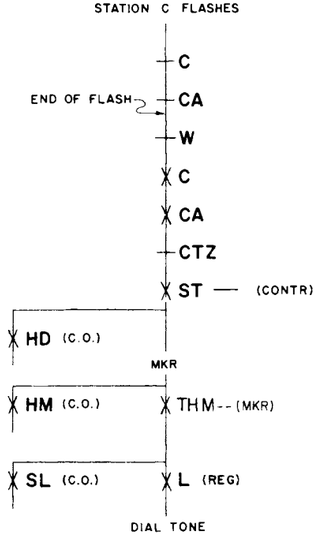
SC 13

STATION B DIALS A TIE TRUNK NUMBER
PREVIOUS ACTION SHOWN IN SC1



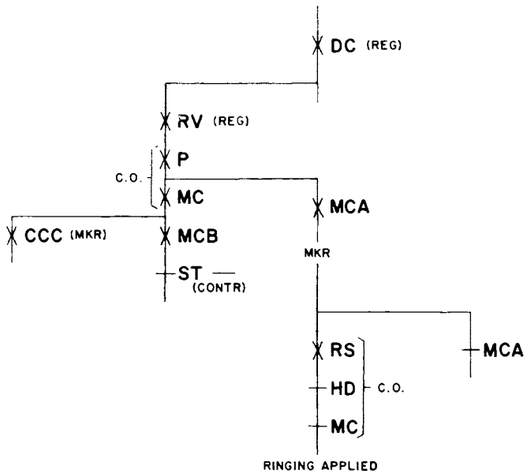
SC 14

SECOND TRANSFER OF PARTY A
STATION C & PARTY A CONNECTED
PREVIOUS ACTION SHOWN IN SC3



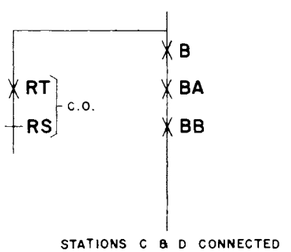
SC 15

STATION C TRANSFERS TO STA D
PREVIOUS ACTION SHOWN IN SC14



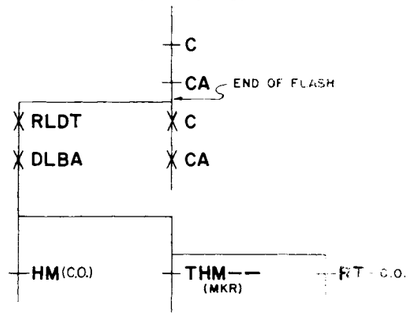
SC 16

CALLED STATION D ANSWERS
PREVIOUS ACTION SHOWN IN SC15



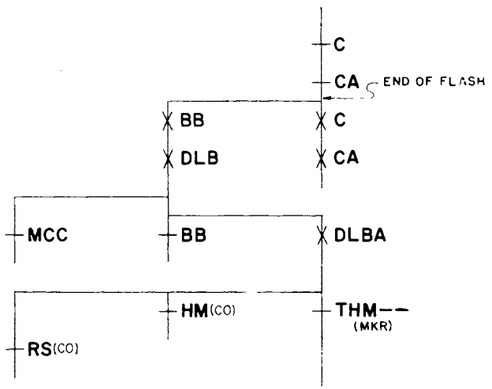
SC 17

STATION C DISPOSES OF DIAL TONE
OR PARTIAL DIAL
PREVIOUS ACTION SHOWN IN SC14



SC 18

STATION C DISPOSES OF DON'T
ANSWER
PREVIOUS ACTION SHOWN IN SC15



6

STATION DIAL TRANSFER
TRUNK CIRCUIT (2)

SD-66921-01-E3

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INCORPORATED

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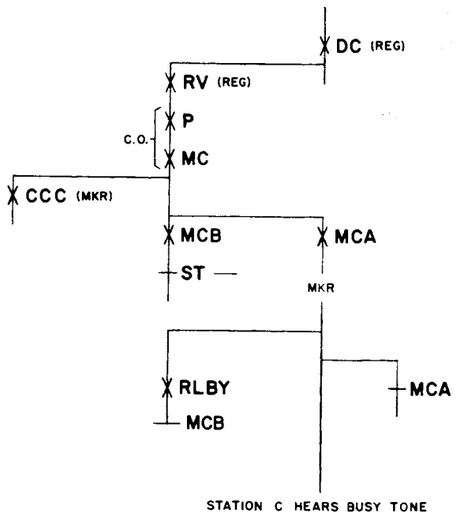
DRAWING ISSUE
1 PFD FF WJ
5AC PJS SAK GFH
6D TEF PJS RHF

SC 19

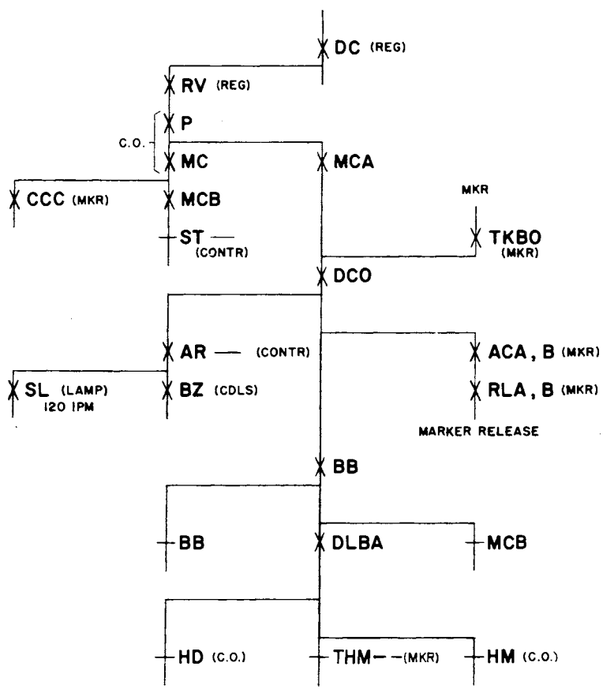
STATION C DIALS A BUSY STATION
PREVIOUS ACTION SHOWN IN SC14



STATION C HEARS BUSY TONE

SC 21

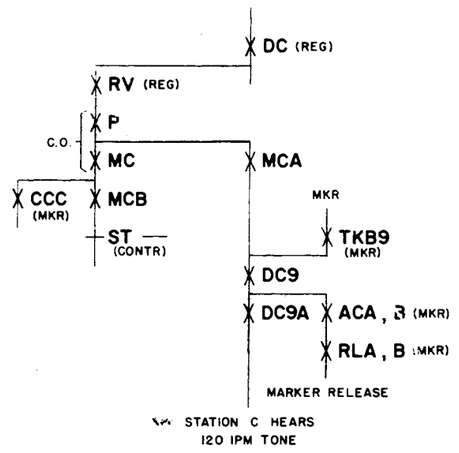
STATION C DIALS 0 TO CALL THE ATTENDANT
PREVIOUS ACTION SHOWN IN SC 14



REGISTER RELEASED
C.O. TRK NORMAL

SC 23

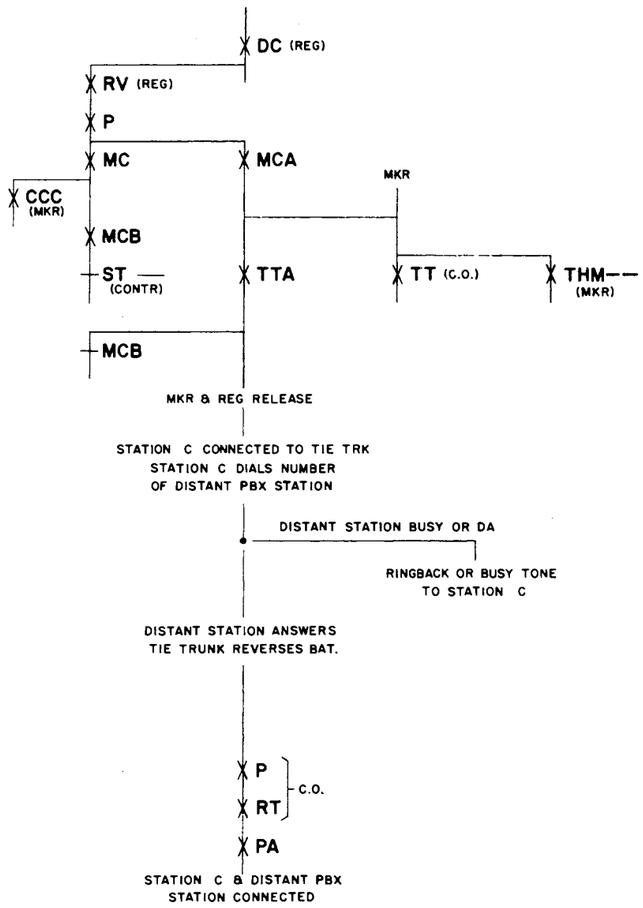
STATION C DIALS 9
PREVIOUS ACTION SHOWN IN SC 14



STATION C HEARS
120 IPM TONE

SC 25

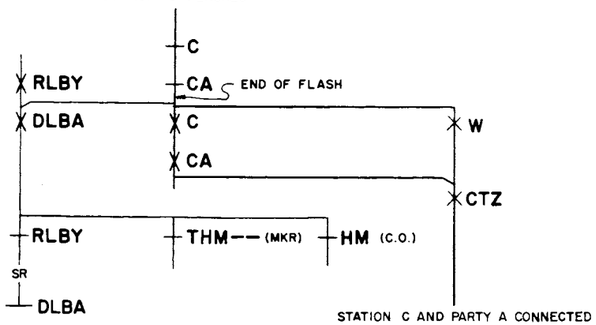
STATION C DIALS A TIE TRUNK NUMBER
PREVIOUS ACTION SHOWN IN SC 14



STATION C & DISTANT PBX
STATION CONNECTED

SC 20

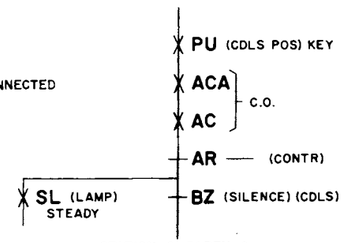
STATION C DISPOSES OF BUSY LINE
PREVIOUS ACTION SHOWN IN SC19
STATION C FLASHES



STATION C AND PARTY A CONNECTED

SC 22

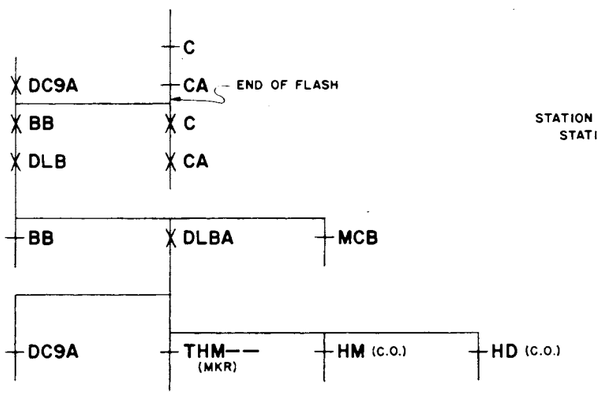
ATTENDANT ANSWERS
PREVIOUS ACTION SHOWN IN SC21



STATION C, PARTY A
& ATTENDANT CONNECTED

SC 24

STATION C DISPOSES I20 IPM TONE
PREVIOUS ACTION SHOWN IN SC 23



STATION C & PARTY A CONNECTED

6

STATION DIAL TRANSFER TRUNK CIRCUIT (2)
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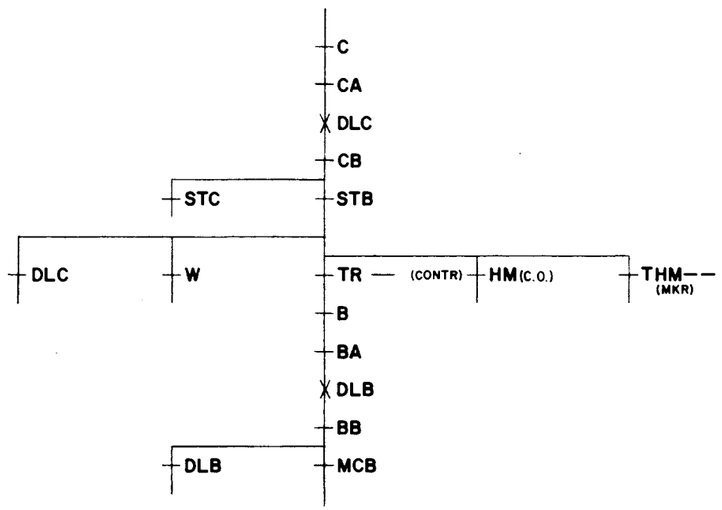
SC 26

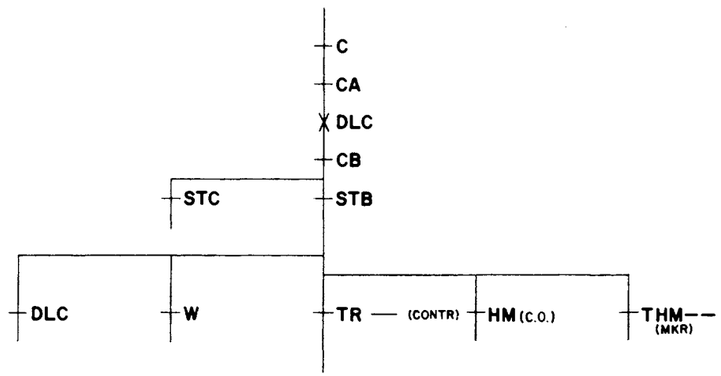
STATION C HANGS-UP AFTER ANSWERING
PREVIOUS ACTION SHOWN IN SC 3



STA DIAL TRF TRK RELEASED
STATION B & PARTY A CONNECTED

SC 28

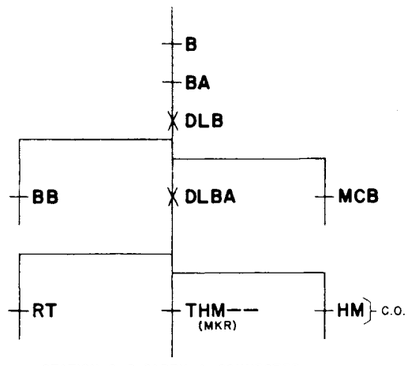
AFTER DIALING O STATION C DISCONNECTS
BEFORE ATTENDANT ANSWERS
PREVIOUS ACTION SHOWN IN SC 21



STA DIAL TRF TRK RELEASED
C.O. TRK & PARTY A RELEASED

SC 27

STATION B HANGS-UP AFTER STATION C
HAS ANSWERED
PREVIOUS ACTION SHOWN IN SC 3



STATION C & PARTY A CONNECTED

DRAWING ISSUE 1 6D

6

STATION DIAL TRANSFER TRUNK CIRCUIT

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SD-66921-01 2 PAGES

CIRCUIT REQUIREMENTS

STATION DIAL TRANSFER TRUNK CIRCUIT

DRAWING ISSUE 1 WRM DFF KFJ HW BCN PJS RHP 6D

APPARATUS DESIG	CODE	OPT	FIG	MECH REQT BSP FIG.	CONT PRES	ARM TRVL	CIRCUIT PREPARATION BLOCK OR INSULATE	TEST CLIP DATA CONN BAT	CONN GRD	TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT TEST WDG	TEST FOR	AFTER SOAK MA	TEST MA	READJ MA	REMARKS
RELAYS																	
B	AJ52		1	303			(MCB) NO	IL (B)	2U (B)	M	1	P/S	O		13.5	12.6	
								IL (B)	2U (B)	M	1	P/S	R		3.15	3.3	
BA			1	262B			2 (B)		U(BA)	GRD	1		O	20	10.7	10.2	
									U(BA)	GRD	1		H	20	2.0	1.9	
									U(BA)	GRD	1		R	20	0.9	1.1	
BB	AF13		1	215			1 (DLB), 10 (CA)		U(BB)	GRD	1		O	20	13.1	12.4	
									U(BB)	GRD	1		R		4.0	4.2	
BY	1/2 AK4		1	202			(MC) NO		1U(BY)	GRD	1		O		11.9	11.3	MOUNTED WITH (RLS)
C	AJ52		1	303			(STC) NO	1L (C)	2U (C)	M	1	P/S	O		13.5	12.6	
								1L (C)	2U (C)	M	1	P/S	R		3.15	3.3	
CA	AG20		1	262B			2 (C)		U(CA)	GRD	1		O	20	10.7	10.2	
									U(CA)	GRD	1		H	20	2.0	1.9	
									U(CA)	GRD	1		R	20	0.9	1.1	
CB	AF13		1	215			12 (DLC)		U(CB)	GRD	1		O		13.1	12.4	
									U(CB)	GRD	1		R		4.0	4.2	
CTD	1/2 AK4		1	202					1U(CTD)	GRD	1		O		11.9	11.3	MOUNTED WITH (TT)
CTZ	AF98		1	245			(STB) NO	L(CTZ)	U(CTZ)	B/G	1		O		27.0	25.4	CONNECT TERMINALS L(CTZ),2U(W) TOGETHER
DBO	AF34		1	14			(MC) NO		U(DBO)	GRD	1		O		28.0	26.5	
DB9	AF16		1	204			(MC) NO		U(DB9)	GRD	1		O		30.5	29	
DB9A	1/2AK30		1	202			4 (RLS)		1L (DB9A)	GRD	1		O		23.6	22	MOUNTED WITH (DC9A)
DCO	AF34		1	14			(MCA) NO		U(DCO)	GRD	1		O		28.0	26.5	
DC9	AF16		1	204			(MCA) NO		U(DC9)	GRD	1		O		30.5	29	
DC9A	1/2AK30		1	202			4 (DLBA)		1U(DC9A)	GRD	1		O		23.6	22	MOUNTED WITH (DB9A)
DLB	1/2AK24		1	12					1L(DLB)	GRD	1		O		7.8	7.4	MOUNTED WITH (DLC)
DLBA	AGA7		1	290B			12 (DLBA)		1U(DLBA)	GRD	1	P	O	100	48.5	46	
							12 (DLBA)		1U(DLBA)	GRD	1	P	H	100	6.3	5.9	
							12 (DLBA)		1U(DLBA)	GRD	1	P	R	100	3.9	4.6	
							12 (DLBA)	2U(DLBA)	2U(DLBA)	B/G	1	S	O		60.5	57.5	
DLC	1/2AK24		1	12					1U(DLC)	GRD	1		O		7.8	7.4	MOUNTED WITH (DLB)
HM	1/2 AK4		1	202					1U (HM)	GRD	3		O		11.9	11.3	MOUNTED WITH (MCB)
									1U (HM)	GRD	4		O		33.9	32.3	
MBT	1/2 AK4	W	1	202					1U(MBT)	GRD			O		11.9	11.3	MOUNTED WITH SPARE
MC	AF100		1	252			2 (TT)		U (MC)	GRD	1		O		41.6	39.5	
MCA	1/2AK31		1	14			(C) NO		1U (MCA)	GRD	1		O		23.6	22.5	MOUNTED WITH (SL)
MCB	1/2 AK4		1	202			7 (TTA)		1L (MCB)	GRD	1		O		11.9	11.3	MOUNTED WITH (HM)
P	1/2 AK4		1	202			5, 6(STC)	2U(P)	1U(P)	B/G	1		O		11.9	11.3	MOUNTED WITH (PA)
PA	1/2 AK4		1	202			(TTA) NO		1L (PA)	GRD	1		O		11.9	11.3	MOUNTED WITH (P)
RLBY	1/2 AK11		1	206			6 (DLBA)		1L (RLBY)	GRD	1		O		17.5	16.5	MOUNTED WITH (RLDT)
RLDT	1/2 AK11		1	206			8(CA), 10(DLBA)		1U (RLDT)	GRD	1		O		17.5	16.5	MOUNTED WITH (RLBY)

TEST NOTES:
1. MAKE TRANSFER TRUNK BUSY BY BLOCKING RELAY HM OPERATED.
2. REMOVE RELAY TIME DELAY CIRCUITS FROM J1, J2 OR J3 CONNECTORS.
3. HM OPERATED ALONE. THM90,1 NOT CONNECTED.
4. HM RELAY AND THM90,1 OPERATE IN PARALLEL.

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STATION DIAL TRANSFER TRUNK CIRCUIT	SD-66921-01-FI
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CIRCUIT REQUIREMENTS

DRAWING ISSUE 1 WRM DFF KFJ HW BCN PJS RHP 6D

APPARATUS DESIG	CODE	OPT	FIG	MECH REQT BSP FIG.	CONT PRES	ARM TRVL	CIRCUIT PREPARATION BLOCK OR INSULATE	TEST CLIP DATA CONN BAT.	CONN GRD	TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT TEST WDG	TEST FOR	AFTER SOAK MA	TEST MA	READJ MA	REMARKS
RLS	1/2 AK4		1	202					1L (RLS)	GRD	1		O		11.9	11.3	MOUNTED WITH (BY)
RS	1/2 AK4		1	202			7 (RT)		1L (RS)	GRD	1		O		11.9	11.3	MOUNTED WITH (W)
RT	AJ58		1	308			12 (MC)	1L(RT)	1U(RT)	B/G	1	P	O		28	26.5	
								1L (RT)	1U(RT)	B/G	1	P	O		29.5	28	
								1L (RT)	1U (RT)	B/G	1	P	NO		20	21.5	
							11 (STC)		2U(RT)	GRD	1	S	O		19	18	
SL	1/2 AK31		1	14			12 (STC)	2L(SL)	1L(SL)	B/G	1		O		30.5	29	MOUNTED WITH (MCA)
STB	AF83		1	8			5(CTZ)		U(STB)	GRD	1		O		8.5	7.8	
STC	AF64		1	219			8 (CTD)		U (STC)	GRD	1		O		11.2	10.6	
TT	1/2 AK4		1	202			(MC) NO		1L (TT)	GRD	1		O		11.9	11.3	MOUNTED WITH (CTD)
TTA	AF9		1	213			(MCA) NO		U (TTA)	GRD	1		O		8.6	8.2	
TTF	1/2 AK35		1	202			8 (TTR)		1L (TTF)	GRD	1		O	48	31.5	30	MOUNTED WITH (TTR)
									1L (TTF)	GRD	1		H	48	4.5	4.2	
TTR	1/2 AK35		1	202			8 (TTR)		1U (TTR)	GRD	1		O		12.5	11.8	MOUNTED WITH (TTF)
W	1/2 AK4		1	202			(CTZ) NO	2U (W)	1U (W)	GRD	1		O		11.9	11.3	MOUNTED WITH (RS)
DIODES																	
A	446F		1								2,3,4,5						
B	446F		1								2,3,4,5						
DLB	446F		1								2,3,4,5						
DLB	458A		1														
DLC	446F		1								2,3,4,5						
DLC	458A		1														
MC	446F		1								2,3,4,5						
PR	446F		1								2,3,4,5						
RR	446F		1								2,3,4,5						

TEST NOTES:
1. MAKE TRANSFER TRUNK BUSY BY BLOCKING RELAY HM OPERATED.
2. EM CONTACTS NEED ONLY TO MAKE.
3. MAKE ALL VOLTAGE MEASUREMENTS WITH VOLTMETER WITH SENSITIVITIES OF 20,000 OHM/VOLT DC OR HIGHER. THE KS-14510 VOLTMETER IS SATISFACTORY. START ALL MEASUREMENTS WITH RANGE SWITCH ON THE 50V SCALE OR HIGHER, TO PREVENT DAMAGING METER IF VARISTOR IS SHORTED.
4. FORWARD RESISTANCE TEST:
   (a) CONNECT THE POSITIVE TERMINAL OF A NONGROUNDED 45-50 VOLT BATTERY TO ONE END OF AN 800 OHM RESISTOR. CONNECT THE OTHER END OF THE RESISTOR TO TERMINAL 1 OF THE DIODE.
   (b) CONNECT THE NEGATIVE END OF THE BATTERY TO TERMINAL 2 OF THE DIODE.
   (c) VOLTAGE MEASURED ACROSS THE DIODE SHALL NOT EXCEED 3 VOLTS.
5. REVERSE RESISTANCE TEST:
   (a) CONNECT THE POSITIVE TERMINAL OF A NONGROUNDED 45-50 VOLT BATTERY TO ONE END OF A 0.1 MEG RESISTOR. CONNECT THE OTHER END OF THE RESISTOR TO TERMINAL 2 OF THE DIODE.
   (b) CONNECT THE NEGATIVE END OF THE BATTERY TO TERMINAL 1 OF THE DIODE
   (c) VOLTAGE MEASURED ACROSS THE 0.1 MEG RESISTOR SHALL NOT EXCEED 5 VOLTS.

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CAD I

SEE NOTE I

PR	50	7	(CA)
TRF	25	1M	(BA)
TRU	49	9M	(BA)
S	24	12	(SDC)
R	48		(FB) CAP.
T	23	2	(RS)
TA	47	4M	(CTZ)
RA	22	8M	(CTZ)
RB	46	9	(DC9A)
TB	21	11B	(DC9A)
STB	45	5	(CTZ)
MCC	20	5B	(MCB)
HM	44	2M	(SL)
GRD	19	9	(DLC)
ONG	43	9M	(DLC)
GP	18	11	(HM)
HMPA	42	11B (HM) Ⓧ / 10B (MBT) Ⓦ	
ST	17	5B	(TTA)
RLDT	41	12	(CTZ)
RLS	16	4	(B)
COO	40	10M	(DBO)
TRIA	15	12M	(BA)
SPARE	39		
PA	14	4	(TTA)
PB	38	4B	(TTA)
PR	13	7	(CA)
TRU	37	9M	(BA)
S	12	12	(STC)
R	36		(FB) CAP.
T	11	2	(RS)
TA	35	4M	(CTZ)
RA	10	8M	(CTZ)
RB	34	9	(DC9A)
TB	9	11B	(DC9A)
STB	33	5	(CTZ)
MCC	8	9F	(TTA)
HM	32	2M	(SL)
GRD	7	9	(DLC)
ONG	31	9M	(DLC)
HMPB	6	11B (HM) Ⓧ / 10B (MBT) Ⓦ	
ATB	30	11M	(HM)
ST	5	5B	(TTA)
RLDT	29	12	(CTZ)
RLS	4	4	(B)
COO	28	10M	(DCO)
PA	3	4	(TTA)
PB	27	4B	(TTA)
SPARE	2		
SPARE	26		

TRFR TRK 0 (PR, TRF, TRU, S, R)

TRFR TRK 0 (T, TA, RA, RB, TB, STB, MCC, HM, GRD, ONG, GP, HMPA, ST, RLDT, RLS, COO, TRIA, SPARE, PA, PB)

TRFR TRK 1 (PR, TRU, S, R)

TRFR TRK1 (T, TA, RA, RB, TB, STB, MCC, HM, GRD, ONG, HMPB, ATB, ST, RLDT, RLS, COO, PA, PB, SPARE, SPARE, SPARE)

PLUG ASSY "C" PLUG 1 — PLUG ASSY "CC" PLUG 1

SD-66909-01 CAD I

SHEET NOTES
I. CABLE AND PLUG ASSY (CC) PER H-912-

SEE NOTE I

HMO	38	11	(MBT)
MBTO	13	10	(MBT)
HME	37	11	(MBT)
MBTE	12	10	(MBT)
RI	36	12	MC
FT	11	A	(BT CAP)
TI (BAT.)	35	1(C) CONN Ⓧ / 4(D) CONN Ⓦ	
SPARE	10		
RSO	34	10	(MC)
FFO	9	4	(MC)
RLSO	33	11	(MCA)
T (GRD)	8		(SH) RES
TO (BAT.)	32	1(C) CONN Ⓧ / 4(D) CONN Ⓦ	
DG	7	12M	(DC 9)
DE	31	10M	(DC9)
DC	6	2M	(DC9)
DB	30	1M	(DC 9)
D8	5	9	(MCA)
D9	29	6M	(DC 9)
DQ	4	6M	(DBO)
RSE	28	10	(MC)
FFE	3	4	(MC)
RLSE	27	11	(MCA)
CCC	2	1M	(MC)
RG (GRD)	26	2M	(RS)

TRFR TRK 1 (HMO, MBTO)

TRFR TRK 0 (HME, MBTE, RI, FT, TI (BAT.))

TRFR TRK 1 (SPARE, RSO, FFO, RLSO)

TRFR TRK 0 (T (GRD), TO (BAT.), DG, DE, DC, DB, D8, D9, DQ, RSE, FFE, RLSE, CCC, RG (GRD))

PLUG ASSY "C" PLUG 2 — PLUG ASSY "CC" PLUG 2

SD-66909-01 CAD I

DRAWING ISSUE	
1	GFP UFF KPJ
2D	DWY SAK GFH
6D	BCM PJS RHP

STATION DIAL TRANSFER TRUNK CIRCUIT

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DWG SIZE 6S

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SHEET INDEX

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	3
APP FIG. 1,2,3,4,5,6	4
CPS 1 60 CYCLE INVERTER	5

CIRCUIT NOTES:

101.

DESIG	FUSE AMP	POTENTIAL	ONE PER
BATTERY SYMBOL -48			VOLTAGE RANGE 45-52.6

102.

FEATURE OR OPTION	PROVIDE		
	APP FIG	APP OR WRG	QUANTITY
POWER SUPPLY CIRCUIT FOR BATTERY OPERATION	1,2,3,4,5,6		1 PER CKT
-96V APPLIQUE	1	X	1 PER CKT

CIRCUIT NOTES: (CONT)

103.

RECORD OF 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	
2D	Y OR Z	Z		Y		Z	
3B	X,V	V		X		V	

104. CONNECT TO TERMINAL 5,6, OR 7 DEPENDING ON WHETHER THE AC SERVICE VOLTAGE IS 123,117, OR 111 VOLTS RESPECTIVELY.

105. THE J87211A RECTIFIERS WILL BE PROVIDED WITH Z OPTION TO PERMIT OPERATION WITH 115 VOLT 2-WIRE SERVICE.

EQUIPMENT NOTES:

201. WIRING NOT OTHERWISE SPECIFIED SHALL BE 22GA KS-13385, SOLID. ALL OTHER GAUGE LEADS SHALL BE KS-13385, STRANDED, EXCEPT AS NOTED.

202. FN TYPE FUSES SHALL BE OF THE MULTIPLE-ELEMENT (TIME DELAY) TYPE.

203. [ ] INDICATES DESIGNATIONS SHOWN FOR INFORMATION ONLY AND ARE NOT TO BE STAMPED.

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.

SUPPORTING INFORMATION

CATEGORY	NUMBER
EQUIPMENT DRAWINGS	J86464G J86464H J86464M J86464N
EQUIPMENT DESIGN REQT	J86464
MAINTENANCE SPECIFICATION	167-480-301

DWG ISSUE	EE ON CD ISSUE	DATE ISSUED	DRAWN	APPD
1	1	1-27-66	CAM LITS FJB	WAK DET FC
2D	1 APP ID	11-7-66	ROM FC	SR DET FC
3B	1 APP 2B	4-31-67	ROM FJB	SR DET FC
4A	1 APP 3A	2-10-69	WF FC	WAK DET FC

TABLE A
INTERRUPTER, KS-15984, L1

PULSE DESCRIPTION	PULSE TOLERANCES CLOSED	PULSE TOLERANCES OPEN	CONTACT GROUP	TIMING SEQUENCE SECONDS 0 1 2 3 4 5 6 7 8
15 IPM RING CR	0.95-1.05		1a	
R			1b	
15 IPM	0.20-.30		1c	
30 IPM		0.200 TO 0.350	2a 2b	
60 IPM - LF	0.450 TO 0.550		3a 3b	
BT			3c 3d	
120 IPM	0.200 TO 0.300		4a 4b 4c 4d	
7.5 IPM - TM	0.225±0.100		5a 5b	
7.5 IPM - PU	0.325±0.100		6a 6b	0.5
120 IPM - LW		0.02 TO 0.05	7a	

DENOTES CLOSURE OF CONTACTS

OPTION INDEX

APP OR WRG	LOCATION
Z	APP FIG. 2
Y	APP FIG. 2
X	APP FIG. 2
V	2G6,3B7

REPLACES SD-81326-01

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SD-81326-02 IM99

POWER SYSTEMS

POWER SUPPLY CIRCUIT

FOR 756A PBX
WITH BATTERY RESERVE
J86464

AT&TCO STANDARD

2 SD-81326-02-1

5 SHEETS

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PART OF FS1
POWER SUPPLY CIRCUIT
FOR BATTERY OPERATION

DRAWING ISSUE
1 FAC 6/8 FC WH
2D FAC FC FC WH
3B FAC F/8 FC WH
4A WH

F7 SP 1 1/3 AMP
F6 60~ 1 1/3 AMP — F6 -48 — 3C3
F5 LT 1 1/3 AMP — F5 -48 — 3EO
F4 DTG-B 1 1/3 AMP — [TTB] F4 -48 — 3GO
F3 DTG-A 1 1/3 AMP — [TTA] F3 -48 — 3GO
F2 20~ 1 1/3 AMP — F2 -48 — 3DO; F2 -48 — 3AT
1/3 AMP F1 ALM 48V DISCH — 15 AMP

S1 AC INPUT ON-OFF SW — BK — ±A1 — W — G — E1
P1
TS1
CB1 RECT — 10 AMP
3 COND 14 GA
L1 ± — L2 GRD

48V RECTIFIER J87211A (2) SD-81540-01 (SEE NOTE 105) — BAT, GRD, RFA
BAT (24 CELLS)
2 COND KS-15141

TS2 — 14 GA, STRANDED — TS3
R1 511
-48V
RB ALM
GRD
-96V
+48V
±10V AC
10V AC ALM
TO PBX CIRCUITS
LOCATED IN CROWN OF POWER CABINET

F8 10VAC IN 2 AMP FN
SEE NOTE 104
123V 117V 111V
(Y,Z) T1 BL-W G-W BL R-W R G O BR-W BR
SPLICE
CR1
C1 1000 — C2 1000
3A7
F9 10VAC OUT 2 AMP

-96V APPLIQUE RECTIFIER J86464P (X) SD-81920-01, FS1 — TB1

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POWER SUPPLY CIRCUIT (2) — SD-81326-02-2
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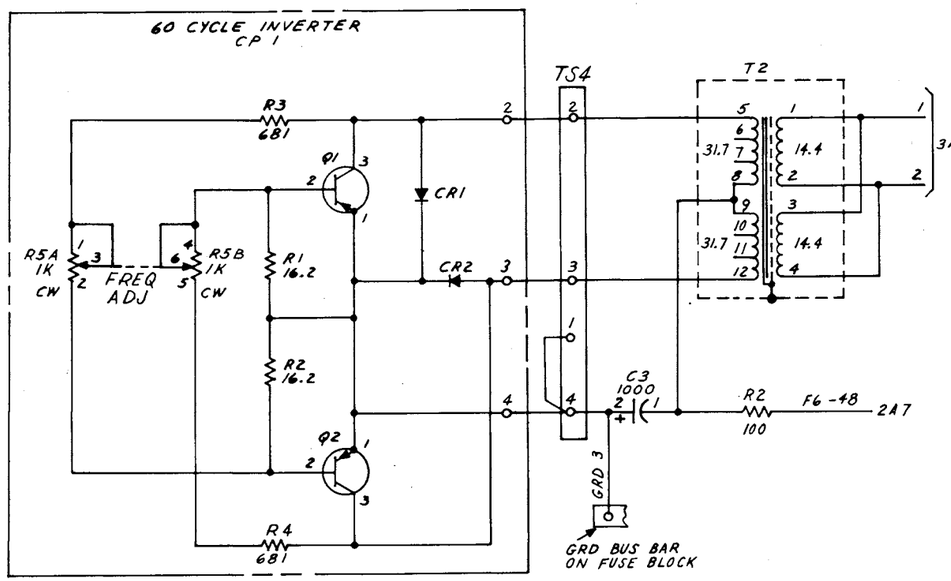
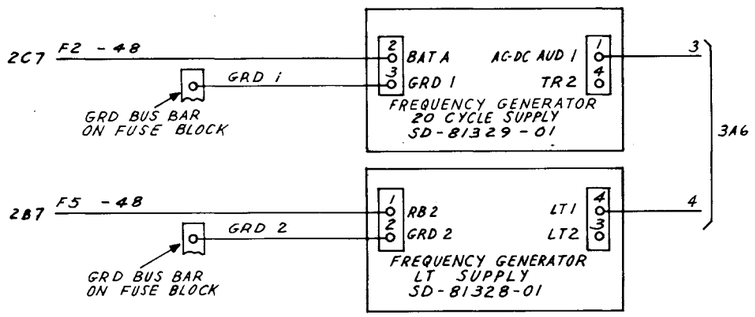
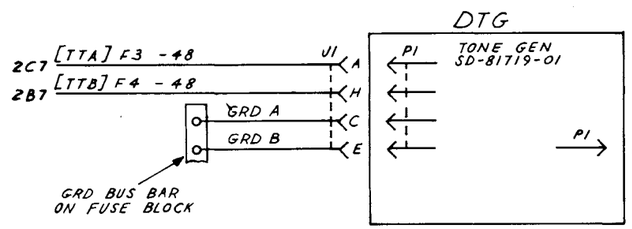
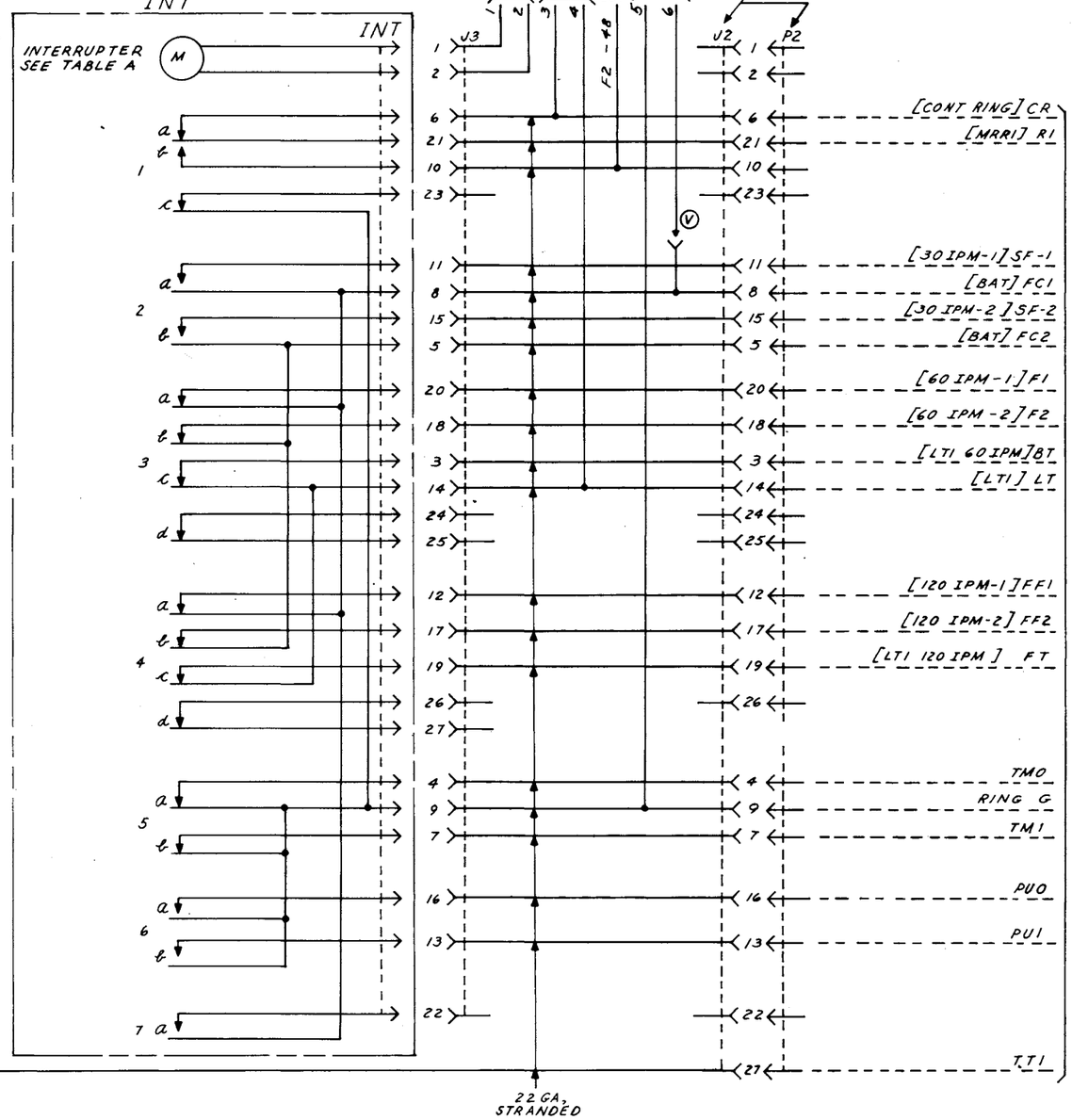
PART OF FS I
POWER SUPPLY CIRCUIT
FOR BATTERY OPERATION









DRAWING ISSUE		
1	RAM	WH
	F/B	
	FC	
2D	RAM	WH
	FC	
	FC	
3B	RAM	WH
	F/B	
	FC	
4A		WH

4

POWER SUPPLY CIRCUIT ② SD-81326-02-3

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APP FIG. 1

RECTIFIER

DESIG	LOC	CODE
48V RECTIFIER	2C3	J87211A,L5,7

CIRCUIT PACK

EQPT			
DESIG	CP1		
CODE	ED-82185-( ),G-1		
OPTION			
ELEM	IDENT	TERM	
TERM		DESIG	FS LOC
4			3C2
3			3B2
2			3A2

APP FIG. 2

(SEE NOTE 1)

CAPACITOR

DESIG	LOC	CODE
C1	2F5	KS-14330,1000
C2	2F5	KS-14330,1000
C3	3C2	KS-14330,1000

CIRCUIT BREAKER

DESIG	LOC	CODE
CB1	2D2	KS-15815,L36

(CONNECTOR) SOCKET

DESIG	LOC	CODE
J2	3A7	KS-8586,L34
J3	3A6	KS-8586,L34

CONNECTOR

DESIG	LOC	CODE
P1	2E0	HUBBELL NO. 5266
P2	3A7	KS-8585,L32

DIODE

DESIG	LOC	CODE
CR1	2F4	426A

FUSE

	DESIG	LOC	CODE
[2]	F1	2D5	KS-19780,L3 70A
	F2	2C5	70A
	F3	2C5	70A
	F4	2B5	70A
	F5	2B5	70A
	F6	2A5	70A
	F7	2A5	70A
	F8	2E2	BUSSMAN MDL
	F9	2G2	70B

INTERRUPTER

DESIG	LOC	CODE
INT	3A4	KS-15984,L1

RECTIFIER

	DESIG	LOC	CODE
(X)	-96V APPLIQUE	2G0	J86464P

RESISTOR

DESIG	LOC	CODE
R1	2E5	KS-14603,L2A,511
R2	3C3	KS-14175,L3A,100

SWITCH

S1

AC OUTPUT

CUTLER HAMMER NO. 7322

OFF / ON 2D1

TRANSFORMER

	DESIG	LOC	CODE
(Z)	T1	2F3	410A
(Y)	T1	2F3	410B
	T2	3A3	177D REP COIL

APP FIG. 3

FREQUENCY GENERATOR

DESIG	LOC	CODE
20 CYCLE SUPPLY	3E2	J86464H

APP FIG. 4

FREQUENCY GENERATOR

DESIG	LOC	CODE
LT SUPPLY	3E2	J86464G

APP FIG. 5

(CONNECTOR) SOCKET

DESIG	J1
CODE	KS-14528,L2
OPTION	
TERM	
A	3G1
B	
C	3G1
D	3G2
E	3G1
F	
H	3G1

GENERATOR

DESIG	LOC	CODE
DTG	3G2	404C

APP FIG. 6

(SEE NOTE 2)

BATTERY

DESIG	LOC	CODE
BAT	2E4	KS-5361,L141D OR KS-15886,L141D

SHEET NOTES:

1. (J2) AND (P2) SOCKET AND CONNECTOR SHALL BE FURNISHED WIRED AND LOCATED IN CROWN OF POWER CABINET.
2. EITHER CODE OF BATTERY AS INDICATED MAY BE FURNISHED DEPENDING ON AVAILABILITY.

DRAWING ISSUE

1	CAM FIB FC	WH
2D	ADM FC FC	WH
3B	ADM FIB FC	WH
4A		WH

4

POWER SUPPLY CIRCUIT (2) SD-81326-02-4

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COMPONENT LIST

DIODE

DESIG	CODE
CR1	426A
CR2	426A

POTENTIOMETER

DESIG	CODE
R5A,R5B	KS-13750,L17,1K

RESISTOR

DESIG	CODE
R1	221A,16.2
R2	221A,16.2
R3	KS-14603,L3A,681
R4	KS-14603,L3A,681

TRANSISTOR

DESIG	CODE
Q1	9A
Q2	9A

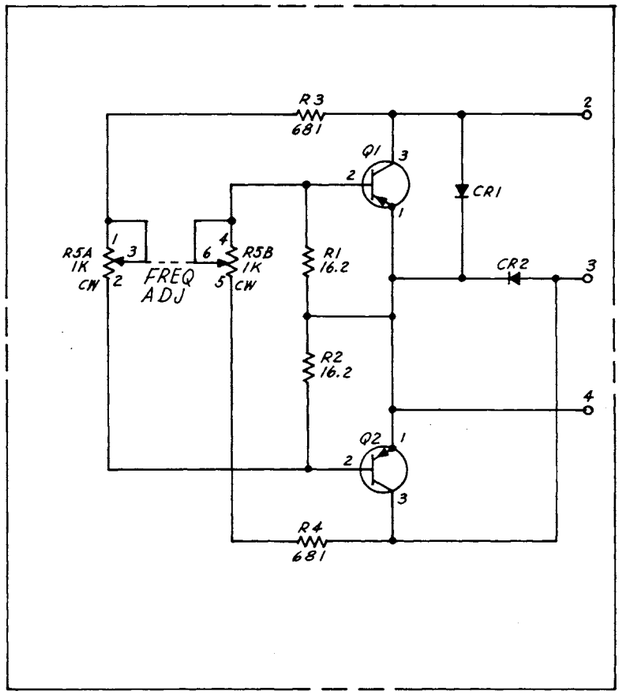
INPUT/OUTPUT INFORMATION

SHOWN IN CD-81326-02

CIRCUIT DESCRIPTION

SHOWN IN CD-81326-02

CPS 1
60 CYCLE INVERTER



MANUFACTURING REFERENCES

CATEGORY	NO.
CIRCUIT PACK CODE AND ASSEMBLY DRAWING	ED-82185-( ),G-1
CONNECTOR ON FRAME	MARATHON 304L

SYMBOL

CPS SHOWN IN DETAIL IN FS 1

NOTES:

1. UNLESS OTHERWISE SPECIFIED: RESISTANCE VALUES ARE IN OHMS.
2. OPERATION REQUIREMENTS INFORMATION IS PART OF CD-81326-02.

DRAWING ISSUE

1	AAJ F/B FC	W
2D	AAA FC FC	WH I
3B	AAH F/B FC	WH WH
4A		WH

SD-81326-02-5

4

POWER SUPPLY CIRCUIT (2) SD-81326-02-5

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SHEET INDEX

SHEET NO.	CONTENTS
1	SHEET INDEX CIRCUIT NOTES EQUIPMENT NOTES SUPPORTING INFORMATION OPTION INDEX
2	FS 1 LOW TONE SUPPLY FS 2 OSCILLATOR FS 3 NETWORK FS 4 AMPL.FIER
3	APP FIG. 1 CAD 1

CIRCUIT NOTES:

101.

DESIG	FUSE AMP	POTENTIAL	ONE PER
	1/2	-48V	SUPPLY WHEN USED ALONE
RB2	1-1/3	-48V	SUPPLY WHEN USED WITH POWER SUPPLY CKT IN 756A PBX

BATTERY SYMBOL	VOLTAGE RANGE
-48	45-52V

102.

FEATURE OR OPTION	PROVIDE		
	APP FIG.	APP OR WRG	QUANTITY

103.

NETWORK VALUES		
NETWORK NO.	RESISTANCE IN OHMS	CAPACITANCE IN UF

104. 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	
5D	Y	Z		Y		Z	

105. DISCONNECT BATTERY SUPPLY BEFORE REMOVING OR INSERTING NETWORKS (PRINTED WIRE BOARDS.)

EQUIPMENT NOTES:

201. LEADS NOT OTHERWISE SPECIFIED SHALL BE 22GA KS-13385, SOLID.

202. DESIGNATIONS IN [ ] ARE FOR INFORMATION ONLY.

SUPPORTING INFORMATION

CATEGORY	NO.
EQUIP DESIGN REQ	J86464 AA367.117
EQUIP DWG	J86464G

OPTION INDEX

APP OR WIRING	LOCATION
Z	APP FIG.1
Y	APP FIG.1

DWG ISSUE	CD ISSUE	DATE ISSUED	DRAWN	APP'D
1	1	10-9-56	J.N. W.F.S	J.W.O. J.M.D.
2D	2D	1-31-57	R.G. J.J.T.S	J.W.O. J.M.D.
3D	3D	12-19-57	J.L.T. M.S.	J.W.O. J.M.D.
4A	4A	5-19-58	H.C. W.M.	J.W.O. J.M.D.
5D	5D	9-30-59	W.F.S. L.H.S.	J.W.O. J.M.D.

T.E.B. TEB W.F.O P.O.B

SD-81328-01

SD-81328-01

SD-81328-01

AT&TCO STANDARD 5

POWER SYSTEMS
SIGNALING CIRCUIT
TRANSISTOR LOW TONE SUPPLY
756A PBX
J86464G

(L T)

SD-81328-01-1
3 SHEETS

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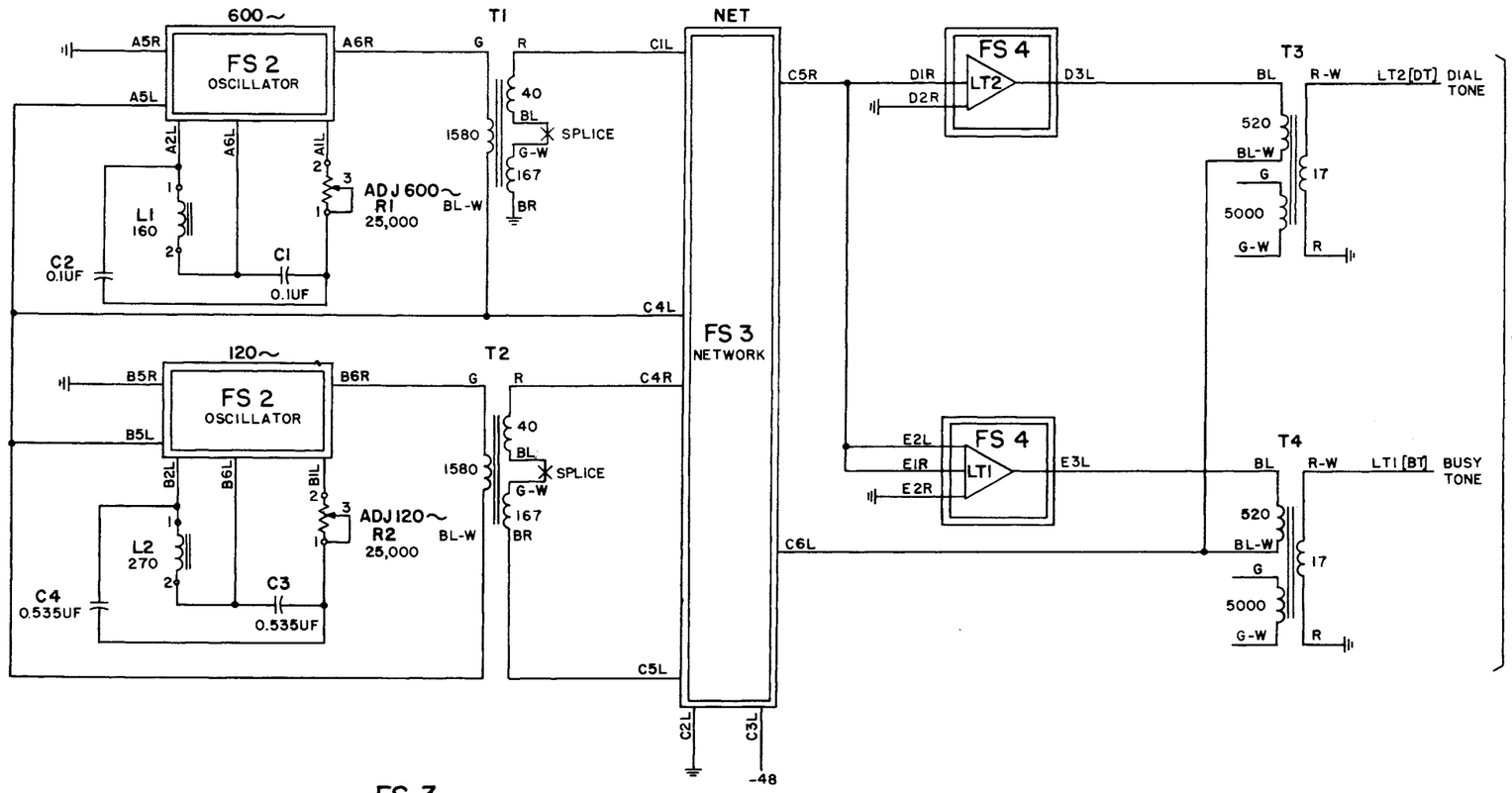
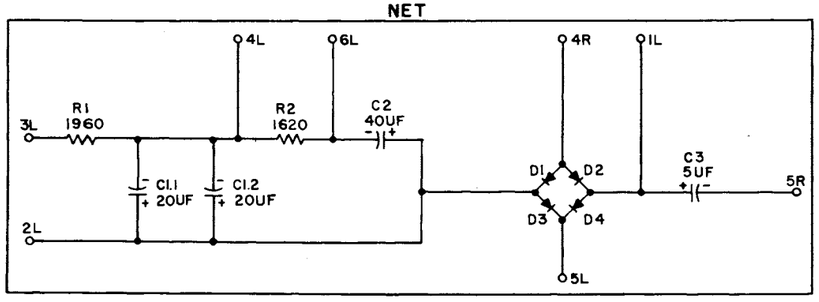
FS 1
LOW TONE SUPPLY



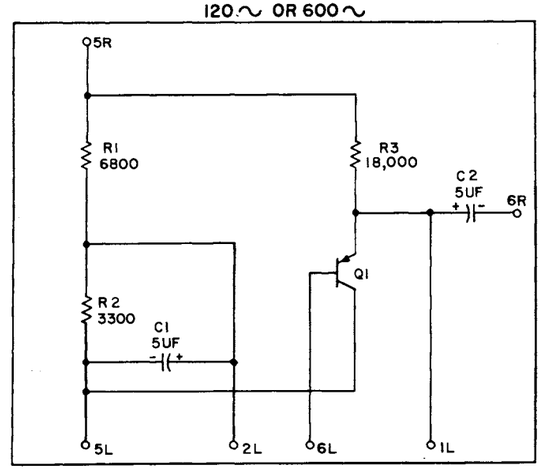
FS 3
NETWORK

NET



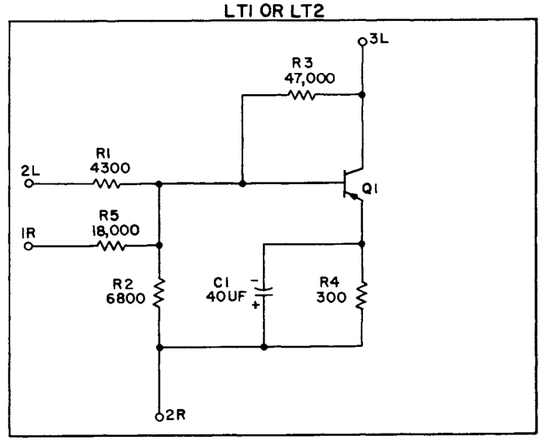
FS 2
OSCILLATOR

120~ OR 600~



FS 4
AMPLIFIER

LT1 OR LT2



SHEET NOTES:

1. PREFIX LETTER DESIGNATIONS (A,B,C,ETC.) ON LEADS TO NETWORKS (PRINTED WIRE BOARDS) REFER TO DESIGNATIONS OF CONNECTORS.

DRAWING ISSUE		
1	J.N. WFS	TEB
2D	R.G. J.T.S.	TEB
3D	J.L.T. M.S.	W.F.A.
4A	H.C. W.F.	P.O.B. A
5D	L.M.C. W.F.	P.O.B.

SIGNALING CIRCUIT

SD-81328-01-2

5

BELL TELEPHONE LABORATORIES INCORPORATED

Dwg Size 6S

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APP FIG. I

AMPLIFIER

DESIG	LOC	CODE
LT1	2D4	820A NETWORK
LT2	2A4	820A NETWORK

CAPACITOR

DESIG	LOC	CODE
C1	2B1	441QU
C2	2B0	441QU
C3	2D1	441QG
C4	2D0	441QG

INDUCTOR

DESIG	LOC	CODE
L1	2B0	293AA
L2	2D0	231R

NETWORK

DESIG	LOC	CODE
NET	2C3	819A NETWORK

OSCILLATOR

DESIG	LOC	CODE
120~	2C0	818A NETWORK
600~	2A0	818A NETWORK

POTENTIOMETER

DESIG	LOC	CODE
R1	2B1	KS-13790,L1 25,000
R2	2D1	KS-13790,L1 25,000

TRANSFORMER

DESIG	LOC	CODE
T1	2B2	ⓩ 530A OUTPUT, ⓨ 530C OUTPUT
T2	2C2	ⓩ 530A OUTPUT, ⓨ 530C OUTPUT
T3	2B5	667B INPUT
T4	2D5	667B INPUT

CAD.1

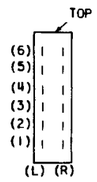
(FOR APP FIG. 1)

TO TRANSFER & ALM CKT	BAT-RB2	1	3L (C) CONN
	GRD-2	2	BR (T1) TRANS
	LT2(DT)	3	R-W(T3) TRANS
	LT1(BT)	4	R-W(T4) TRANS

TERMS. ON (LT) T.S.

SHEET NOTES:

1. THE FIG. BELOW SHOWS TERMINAL LOCATION ON CONNECTOR ASSEMBLIES.



DRAWING ISSUE

1	J.N. WFS	TEB
2D	RG JJS	TEB
3D	J.BF AA.S	W.F.D.
4A	NC WM	P.O.B
5D	JHF WM	P.O.B.

SIGNALING CIRCUIT

BELL TELEPHONE LABORATORIES INCORPORATED

DWG SIZE 6S

SD-81328-01-3

5

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SHEET INDEX

SHEET NO.	CONTENTS
1	SHEET INDEX CIRCUIT NOTES EQUIPMENT NOTES SUPPORTING INFORMATION
2	FS 1 20~ SUPPLY FS 2 20~ OSCILLATOR FS 3 NETWORK FS 4 AMPLIFIER SHEET NOTES
3	APP FIG. 1 CAD 1,2 SHEET NOTES

CIRCUIT NOTES:

101.

DESIG	FUSE AMP	POTENTIAL	ONE PER
	1/2	-48V	SUPPLY WHEN USED ALONE
A OR B	1-1/3	-48V	SUPPLY WHEN IN COMBINATION WITH 60~ SUPPLY IN 756A PBX

BATTERY SYMBOL	VOLTAGE RANGE
-48	45-52V

102.

FEATURE OR OPTION	PROVIDE		
	FIG.	APP OR WRG	QUANTITY

103.

NETWORK VALUES		
NETWORK NO.	RESISTANCE IN OHMS	CAPACITANCE IN UF

104.

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	
6B	Y	Z		Y		Z	

105. DISCONNECT BATTERY SUPPLY BEFORE REMOVING OR INSERTING NETWORKS (PRINTED WIRE BOARDS) OR AMPLIFIERS.

SUPPORTING INFORMATION

CATEGORY	NO.
EQUIP DESIGN REQ	J86464 AA367.117
EQUIP DWG	J86464H

EQUIPMENT NOTES:

201. LEADS NOT OTHERWISE SPECIFIED SHALL BE 22GA KS-13385, SOLID.

202. DESIGNATIONS IN [ ] ARE FOR INFORMATION ONLY.

INFORMATION NOTES:

301. UNLESS OTHERWISE SPECIFIED: RESISTANCE VALUES ARE IN OHMS, CAPACITANCE VALUES ARE IN MICROFARADS.

OPTION INDEX

APP OR WRG	LOCATION
Z	2A5,2C5,2C6,2D6, 2D7
Y	2A5,2C5,2C6,2D6, 2D7

DWG ISSUE	CD ISSUE	DATE ISSUED	DRAWN	APP'D	
1	1	10-3-56	AVF CAD	JWK JMD	RRC
2D	2D	1-31-57	JGB WFS	JWO JMD	TCB
3A	3A	10-10-57	RS WVH	JWO JMD	WJM
4D	4D	1-3-58	JF M.S.	JWO JMD	W.F.O.
5A	5A	5-26-58	CAS M.R.	JWO JMD	WS
6B	6B	5-23-60	SRZ JJTS	JWO JMD	TCB

SD-81329-01

POWER SYSTEMS
RINGING CIRCUIT
TRANSISTOR 20~ SUPPLY
756 A PBX
J-86464H

BELL TELEPHONE LABORATORIES INCORPORATED

DWG. SIZE 6S

AT&TCO STANDARD 6

SD-81329-01-1
3 SHEETS

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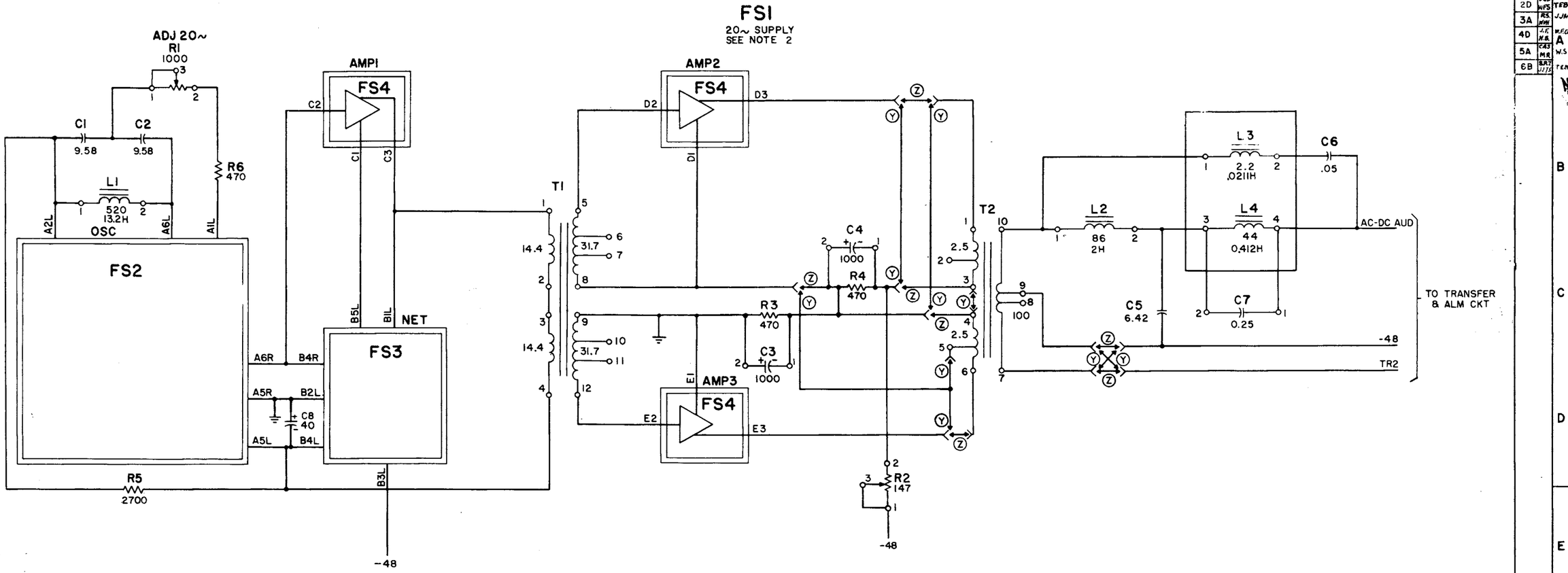
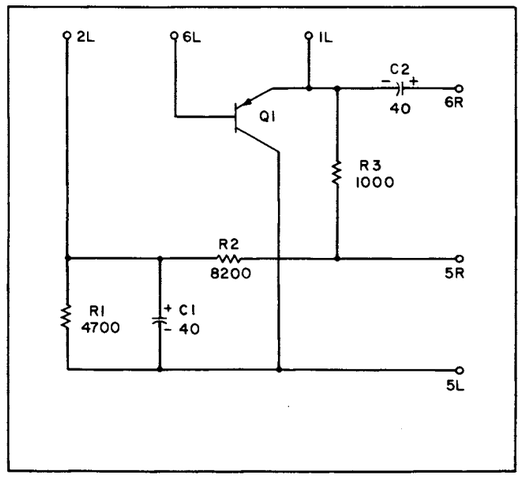
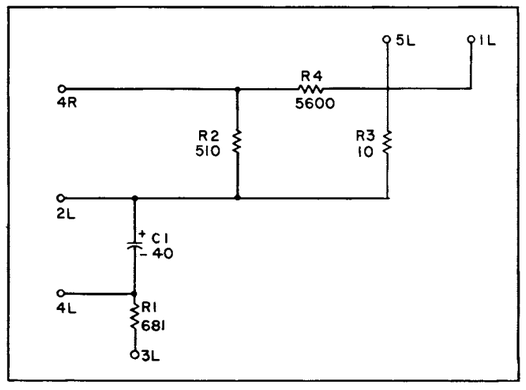


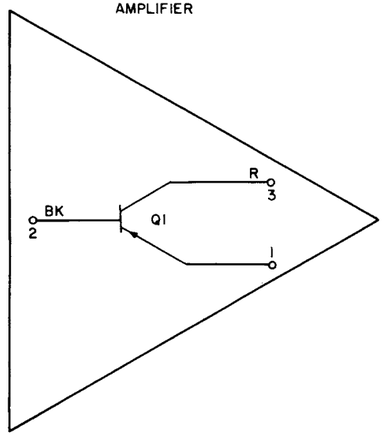
FS2
20~ OSCILLATOR



FS3
NETWORK



FS4
AMPLIFIER



SHEET NOTES:
1. PREFIX LETTER DESIGNATIONS (A, B, C, ETC) ON LEADS TO NETWORKS (PRINTED WIRE BOARDS) OR AMPLIFIERS REFER TO DESIGNATIONS OF CONNECTORS.
2. TERMINALS 1 AND 4 ON CONNECTORS C, D AND E SHALL BE STRAPPED TOGETHER.

DRAWING ISSUE		
1	AWM 2/69	RWC
2D	JGS WFS	TFB
3A	RS. WFS	JJM
4D	JG WFS	WFG
5A	CAS MR	A
6B	BAT 7/75	W.S
		TEB

RINGING CIRCUIT

BELL TELEPHONE LABORATORIES INCORPORATED — 6S — PRINTED U.S.A.

SD-81329-01-2

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APP FIG.1

AMPLIFIERS

DESIG	LOC	CODE
AMP 1	2B2	ED-81839-10
AMP 2	2A4	ED-81839-10
AMP 3	2D4	ED-81939-10

OSCILLATOR

DESIG	LOC	CODE
20~	2D0	821A NETWORK

NETWORK

DESIG	LOC	CODE
NET	2D2	822A

CAPACITORS

DESIG	LOC	CODE
C1.1	2B0	437QA 4.28
C1.2	2B0	437QA 4.28
C1.3	2B0	441QE 1.02
C2.1	2B1	437QA 4.28
C2.2	2B1	437QA 4.28
C2.3	2B1	441QE 1.02
C3	2D5	KS-14330 1000
C4	2C5	KS-14330 1000
C5.1	2C7	437QA 4.28
C5.2	2C7	439QA 2.14
C6	2B8	441M 0.05
C7	2C8	441QR 0.25
C8	2D1	602A 40

INDUCTORS

DESIG	LOC	CODE
L1	2B0	231S 13.2H
L2	2B6	231T 2.0H
L3	2B7	1/2 293AC (1-2) 0.021IH
L4	2C7	1/2 293AC (3-4) 0.412H

POTENTIOMETER

DESIG	LOC	CODE
R1	2A1	KS-13790,L1 1000

RESISTORS

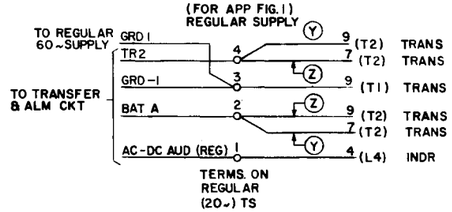
DESIG	LOC	CODE
R2	2E5	KS-14272,L1 147
R3	2C5	KS-13492,L1 470
R4	2C5	KS-13492,L1 470
R5	2D0	KS-13490,L1 2700
R6	2B1	KS-13490,L1 470

TRANSFORMERS

DESIG	LOC	CODE
T1	2C3	177D REP COIL
T2	2C6	360 AK

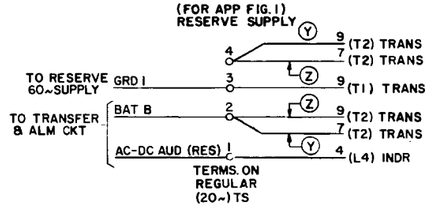
CAD 1

(FOR APP FIG.1)
REGULAR SUPPLY



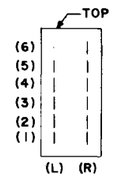
CAD 2

(FOR APP FIG.1)
RESERVE SUPPLY



SHEET NOTES

1. THE FIG. BELOW SHOWS TERMINAL LOCATIONS ON CONNECTOR ASSEMBLIES A & B.



DRAWING ISSUE

1	AVF CKD	REC
2D	JGS WFS	T.E.B.
3A	RS HWH	JJM
4D	A.F. M.S	W.F.O
5A	CAS MAR	W.S
6B	BRS JJM	T.E.B.

RINGING CIRCUIT

BELL TELEPHONE LABORATORIES INCORPORATED

DWG SIZE 6S

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SD-81540-01

SHEET INDEX

CONTENTS	SHEET NO.
SHEET INDEX SUPPORTING INFORMATION CIRCUIT NOTES EQUIPMENT NOTES INFORMATION NOTES OPTION INDEX	1
FIG. 1 RECTIFIER CIRCUIT FIG. 2 HIGH VOLTAGE SHUTDOWN CIRCUIT FIG. 3 HIGH VOLTAGE SHUTDOWN CIRCUIT	2

CIRCUIT NOTES:

101.

DESIG	FUSE AMP	POTENTIAL	ONE PER
F1	2	125V	CIRCUIT

102.

FEATURE OR OPTION		PROVIDE FIG.	APP OR WRG	QUANTITY
AC SERVICE VOLTAGE	95-135	1	Z	1 PER CKT
	190-275	1	Y	
NEGATIVE OUTPUT (POSITIVE GROUNDED)		1	X	1 PER CKT
POSITIVE OUTPUT (NEGATIVE GROUNDED)		1	W	
HIGH VOLTAGE SHUT DOWN CIRCUIT		3		1 PER CKT
GROUND ALARM ON RFA LEAD		1	R	1 PER CKT
BATTERY ALARM THRU 511 OHMS ON PG LEAD		1	J	

103.

104.

RECORD OF 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	
6AC	U	V		U		V	
7B	S	T		S		T	
7B	R	NONE		R			
7B	FIG. 2 OR FIG. 3	2		3		2	
7B	Q	P		Q		P	
8AC	M	N		M		N	
9AR	FIG. 2 OR FIG. 3	2		3		2	
11B	L	K		L		K	
12B	J,R	J,R		J,R			
15AC	G,H	H	107	G,H			-

CIRCUIT NOTES. (CONT)

105. TRANSFORMER CODES AND TAPS ARE AS FOLLOWS. RECTIFIERS WILL BE CONNECTED AT THE FACTORY FOR EITHER NOMINAL 115 OR 210 VOLT SERVICE. FOR OTHER LINE VOLTAGES RECONNECT TO TAP NEAREST ACTUAL LINE VOLTAGE.

OPTION	TRNSF CODE	TAP	PRIMARY VOLTAGE
Z	371E	1-4	125
		1-3	115
		1-2	105
Y	371F	1-4	250
		1-3	230
		1-2	210

106. PRIOR TO ISSUE 7B (R6),(R9) AND (R12) RESISTORS WERE KS-8441.

107. G OPTION REQUIRED WHEN RECTIFIER USED IN 2A AUTOMATIC CALL DISTRIBUTOR BATTERY RESERVE POWER PLANT.

EQUIPMENT NOTES:

201. ALL WIRING SHALL BE KS-13385 22GA SOLID WIRE UNLESS OTHERWISE SPECIFIED. ALL WIRING RUNNING IN CABLE OF HINGED GATES SHALL BE KS-13385 22GA STRANDED. ALL HEAVY LEADS SHALL BE KS-13385 14GA STRANDED WIRE.

202. FUSES DESIGNATED FN SHALL BE OF THE MULTIPLE-ELEMENT (TIME DELAY) TYPE. PRIOR TO ISSUE 7B THE 6.25 AMP FN AND 10 AMP FN WERE 6 AMP AND 10 AMP RESPECTIVELY.

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.

SUPPORTING INFORMATION

CATEGORY	NO.
EQUIPMENT DRAWINGS EQUIPMENT DESIGN REQT	J87211A-() J87211
MAINTENANCE SPEC	169-245-301

OPTION INDEX

APP OR WRG	LOCATION
FIG. 1	2A4
FIG. 2	2F4
FIG. 3	2F7
Z	2C0, 2C1
Y	2C0,2C1,2D0
X	2B8,2D6,2D8
W	2B8,2D6,2D8
V	2C3,2E2
U	2C3,2D2
T	2D4
S	2D4
R	2C8,2D3
Q	2B8
P	2B8
N	2F3,2G3
M	2F3,2G3
L	2D2,2D3
K	2D2,2D3
J	2C9,2D8
H	2C5
G	2C5

DWG ISS	CO ISSUE	DWG ISS	CO ISSUE	DWG ISS	CO ISSUE
1	1	2A	2A	3A	3A
4AR	3A APP 1AR	6D	4D		

DWG ISS	CO ISSUE	DATE ISSUED	DRAWN	APPD	
6AC	5AC	10-21-64	WJC JJTS	RS CSK FC	
7B	5AC APP 1B	10-21-64	WJC JJTS	RS CSK FC	W
8AC	5AC APP2AC	12-9-64	ROM JJTS	RS CSK FC	
9AR	5AC APP3AR	6-7-65	FJB	GCG CSK FC	4
10AR	5AC APP4AR	6-7-65	FJB	GCG CSK FC	4
11B	5AC APP6B	10-15-65	FJB	GCG CSR FC	W
12B	5AC APP 6B	5-3-66	RAW FJB	RS CSK FC	
13B	6B	5-3-66	RAW FJB	FPH CSK FC	W
14AR	6B APP1AR	6-13-66	RAW FC	RS CSK FC	W
15AC	6B APP 2AC	12-7-66	TWT GWJ	RR CSK FC	W
16D	6B APP3D	1-11-68	RC FJB	RR CSK FC	W

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SD-81540-01 IM99

POWER SYSTEMS

REGULATED RECTIFIER

SEMI-CONDUCTOR TYPE
48 VOLTS, 11 AMPERES DC
115/230 VOLTS, 60 CYCLE AC
J87211A

(2)

BELL TELEPHONE LABORATORIES INCORPORATED

DWG SIZE 6S

AT&TCO STANDARD

SD-81540-01-1

2 SHEETS

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FIG. 1
RECTIFIER CKT

TO REGULATOR CKT

TS1 (C, B, D, A, G, H, J, E)

PART OF TS5

R1 KS-14603, L1D 2150

R6 KS-14603, L30 10 ±10%

R4 KS-16266, L1D 3320

R5 147A 3830

R9 KS-14603, L30
(U) 21.5 ±10%
(V) 100 ±10%

J2 − KS-14171, L2
J1 + KS-14171, L1
REG VOLTS

(Q, P) F1 REG FUSE 2 AMP
(Q) AGC (P) AGX

TS2
REG BAT
REG GRD
(J) PG
(R) RFA

CBI DC KS-15813, L13
(J, R)

TS3
BAT
GRD
TO DISCH CKT

POLE A (LOAD) 15 AMP
POLE B (LOAD) .01 AMP

(J) R14 KS-14603, L2A 511

S1 AC CUTLER-HAMMER 7320K2 SWITCH
OFF / ON

TS4
(Z) 95-135V
(Y) 190-275V 60~AC
(Y) 6.25 AMP FN
(Z) 10 AMP FN
SEE NOTE 202
GRD
(Y) 6.25 AMP FN
SEE NOTE 202

(Z, Y) T1 SEE NOTE 105

C1 542G 4

(L) R13 KS-14603, L1A 68.1

CR2 KS-15990, L3 RECT STACK

L1 1033A 0.19

PART OF TS5

D1 (K) 425A (L) 425L

R2 KS-14603, L2A 681
R2.1 KS-14603, L2A 681
R2.2 KS-14603, L2A 681
R2.3 KS-14603, L2A 681

R3.1 KS-14175, L6A 0.4
R3.2 KS-14175, L6A 0.4

R12 KS-14603, L30 10 ±10%

PART OF TS5

CR1
(U) ~~KS-15989, L9~~ G.E. CO 2N3656 OR APPROVED EQUIVALENT
(V) KS-15989, L3

M1 11 AMP OUTPUT KS-14784, L4 0-15 AMP

TO FIG. 2 OR 3

TO FIG. 1

TS6

Q2 31A
Q1 30A
Z1 420A
Z2 420A
(M, N) R7 147A (M) 750 (N) 511
R8 KS-14272, L2 645
R10 147A 1620
R11 147A 511
C2 542F 2
D2 425H

FIG. 2 (MFR DISC)
HIGH VOLTAGE SHUTDOWN CKT

TO FIG. 1

TS6

Q2 31A
Z1 420A
Z2 420A
R7 147A 1100
Q1 2N3766
R8, POT. KS-16752, L5 500
C2 542F 2
D3 446A
R10 147A 1620
R11 147A 511
D2 425H

FIG. 3
HIGH VOLTAGE SHUTDOWN CKT

AC: ON / OFF
DC: ON / OFF

DRAWING ISSUE

6AC	W/C, J/13, FC
7B	W/C, J/13, FC, RC-7B
8AC	J/13, FC
9AR	FJB, FC
10AR	FJB, FC
11B	FJB, FC
12B	Add'l, FJB, FC
13B	Add'l, FJB, FC
14AR	Add'l, FC, FC
15AC	TWT, G/A, FC
16D	

16

REGULATED RECTIFIER (2) SD-81540-01-2

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CIRCUIT NOTES

101.

DESIG	FUSE AMP	POTENTIAL	ONE PER
TTA	1-1/3	-48	CKT
TTB	1-1/3	-48	CKT
A		GRD	CKT
B		GRD	CKT

BATTERY SYMBOL	VOLTAGE RANGE
-48	45-52.6

102.

FEATURE OR OPTION	PROVIDE FIG.	APP OR WRG	QUANTITY
-48V RECTIFIER	1		1 PER CKT
AC, DC AND RINGING SUPPLY WITH TOUCH-TONE DIAL TONE PROVIDED	2	W	1 PER CKT
RING G 107D FREQUENCY GENERATOR	2B		1 PER CKT
LOAD CAPACITOR BANK	5		1 PER CKT
-96V APPLIQUE	6		1 PER CKT

103.

RECORD OF 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	
3D	FIG. 2A OR FIG. 2B	FIG.2A		FIG.2B		FIG.2A	
4D	FIG. 4	FIG.3		FIG.4	FIG.3		
5B	Z OR Y	Z		Y		Z	
6D	W OR X	X	203	W		X	
7B	FIG. 5	FIG. 3 &FIG.4		FIG. 5		FIG. 3 &FIG.4	
8D	T OR V	V		T		V	
9B	S	NONE	302	S			
10D	Q OR R	R		Q		R	

104. CONNECT TO TERMINAL 5, 6, OR 7 DEPENDING ON WHETHER THE AC SERVICE VOLTAGE IS 123, 117, OR 111 VOLTS RESPECTIVELY.

105. (MFR DISC)

FEATURE OR OPTION	PROVIDE FIG.	APP OR WRG	QUANTITY
AC, DC AND RINGING SUPPLY WITH LT2 FOR DIAL TONE	2	X	1 PER CKT

EQUIPMENT NOTES:

201. WIRING NOT OTHERWISE SPECIFIED SHALL BE 22GA KS-13385, SOLID

202. FN TYPE FUSES SHALL BE OF THE MULTIPLE ELEMENT (TIME-DELAY) TYPE.

203. THE 404C TONE GENERATOR IS MOUNTED ON SLIDE 1.

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. THIS ORTION IS SPECIFIED ONLY WHEN THIS POWER SUPPLY IS USED WITH THE 756A PBX BATTERYLESS SYSTEM, J86464L.

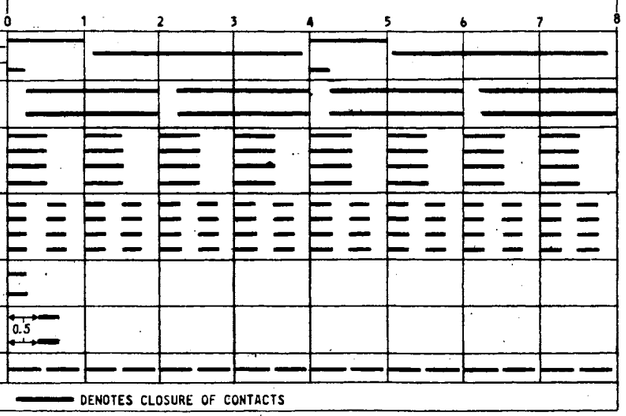
SUPPORTING INFORMATION

CATEGORY	NUMBER
EQUIPMENT DRAWINGS	J86812A J86812B
EQUIPMENT DESIGN REQT	J86812
MAINTENANCE SPEC	167-494-301

DWG ISSUE	CD ISSUE	DATE ISSUED	DRAWN	APPD
6D	4D	3-29-65	JJTS JJTS	HMK DET FC
7B	5B	9-28-65	RAB JJTS	HMK DET FC
8D	5B APP 1D	11-3-66	RDM RAB	GK DET FC
9B	5B APP 2B	1-31-67	RDM EJB	SR DET FC
10D	5B APP 3D	11-25-68	GK EJB	HMK DET FC

TABLE A
INTERRUPTER, KS-15984, L1

PULSE DESCRIPTION	PULSE TOLERANCES CLOSED	OPEN	CONTACT GROUP
15 IPM RING CR	.95-1.05		1a
R			1b
15 IPM	.20-.30		1c
30 IPM		.200 TO .350	2a 2b
60 IPM - LF	.450 TO .550		3a 3b
BT			3c 3d
120 IPM	.200 TO .300		4a 4b 4c 4d
7.5 IPM - TM	.225±.100		5a 5b
7.5 IPM - PU	.325±.100		6a 6b
120 IPM - LW		.02 TO .05	7a



DENOTES CLOSURE OF CONTACTS

OPTION INDEX

APP OR WRG	LOCATION
Z	SH 2
Y	SH 2
X	SH 2
W	SH 2
V	SH 2
T	SH 2
S	SH 2
R	SH 2
Q	SH 2

REPLACES SD-81325-01, PARTIALLY REPLACES SD-81288-01

10

SD-81577-01 IM99

POWER SYSTEMS

POWER SUPPLY CIRCUIT
AC, DC & RINGING SUPPLY

J86812A & B

AT&TCO STANDARD

SD-81577-01-1
2 SHEETS

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DWG SIZE 6S

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SD-81577-01

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FIG. 1
-48V RECTIFIER

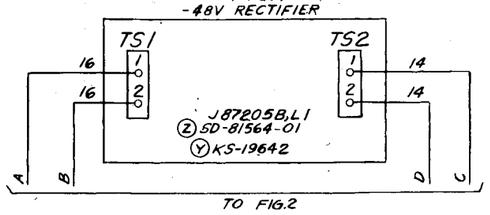


FIG. 2A(MFR DISC)

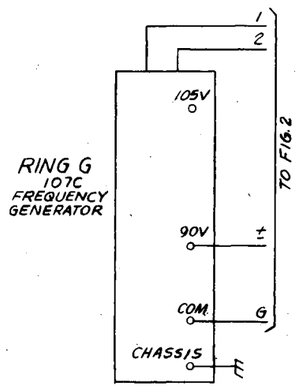


FIG. 2B

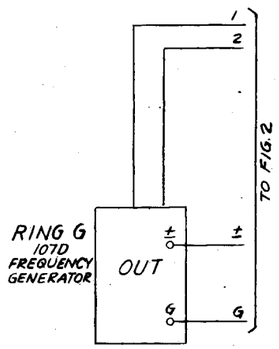


FIG. 2

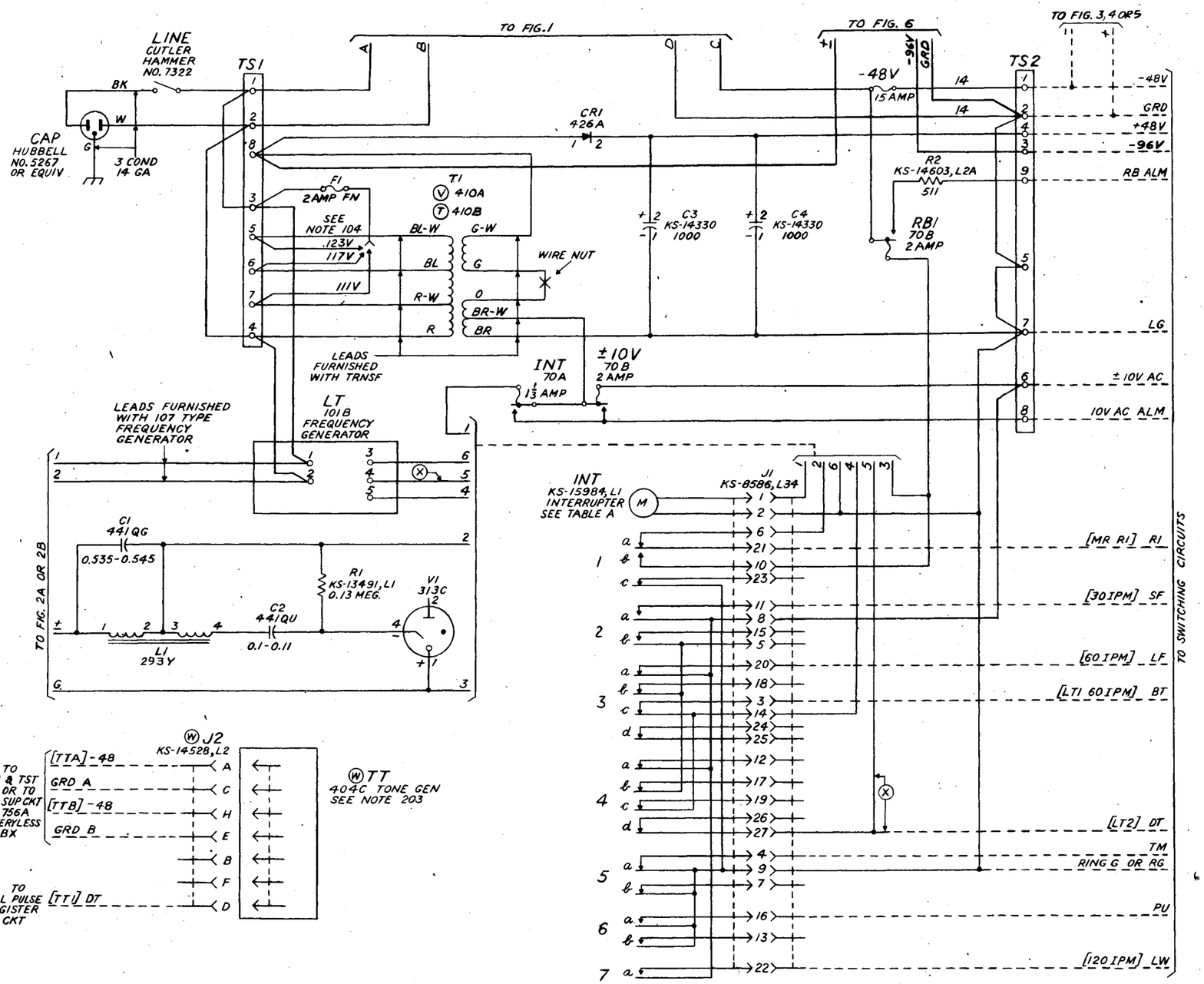


FIG. 3 (MFR DISC)

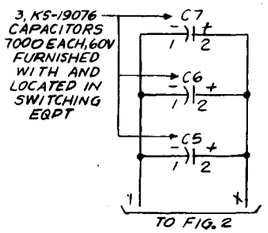


FIG. 4 (MFR DISC)

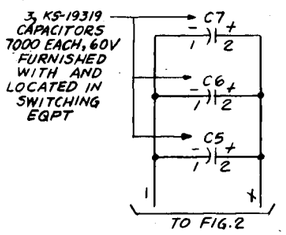
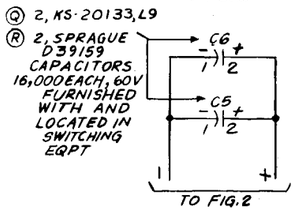
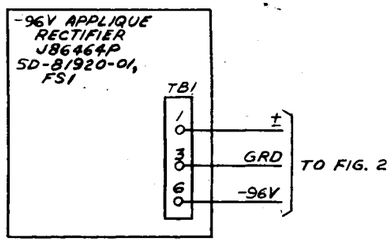


FIG. 5



(S) FIG. 6



DRAWING ISSUE

6D	UJT	FC
7B	RAD	UJT FC
8D	RAM	RAB FC
9B	RAM	FJB FC
10D		

10

POWER SUPPLY CIRCUIT
AC, DC & RINGING SUPPLY
(2) SD-81577-01-2
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CIRCUIT REQUIREMENT TABLE	6	5

CIRCUIT NOTES:

101.

DESIG	AMP	POTENTIAL FUSED	ONE PER
TTA	1-1/3	-48V	CKT
TTB	1-1/3	-48V	CKT
TTA		GRD	CKT
TTB		GRD	CKT

BATTERY SYMBOL	VOLTAGE RANGE
-48V	46 - 52.6

102.

FEATURE OR OPTION		PROVIDE FIG.	APP OR WRG	QUANTITY
INITIAL POWER PLANT EQUIP	AC DISTR CKT	1		1 PER SLIDE
	1ST -48V RECT	2		
	2ND -48V RECT	3		
	DC DISTR & ALM CKT	5		
	RINGING BATTERY FUSE ALARM	5B		
	+48V/10V AC RECT	6		
	RINGING & TONE CKT WITH TOUCHTONE PROVIDED	7	S,Y	
	TERMINAL BLOCKS	8		
	LOAD CAPACITOR CIRCUIT	9		
	LOAD CAPACITOR CIRCUIT	10		
SEE NOTE 107		A		1 PER SLIDE
SEE NOTE 107		B		
SEE NOTE 107		D		
SEE NOTE 107			Z	
SEE NOTE 108			Y	
SEE NOTE 107		E		1 PER SLIDE

CIRCUIT NOTES (CONT)

103.

NETWORK NO.	NETWORK CODE	NETWORK VALUES RESISTANCE IN OHMS	CAPACITANCE IN UF

104.

CHANGED ON ISS	IF JOB RECORDS DO NOT SPECIFY	THIS OPTION WAS FURN	SEE NOTE	USE IN CIRCUIT STD	A&M	MD	
3A	Z	Z	107	Z			
7B	Y	NONE	108	Y			
7B	FIG.5A OR FIG.5B	FIG. 5A	108	FIG.5B		FIG.5A	
9D	W OR X	X		W		X	
10B	U OR V	V		U		V	
11C	S OR T	T	102,109	S		T	
12C	Q OR R	R		Q		R	
13B	N OR P	P		N		P	
14C	L OR M			L		M	
15B	FIG.C OR FIG. E	FIG.C	107	FIG.E		FIG.C	
16D	K	Q		K		Q	
16D	J	NONE	211	J			

105. 1028 FREQUENCY GENERATOR LEADS SHALL BE CONNECTED TO PROVIDE REQUIRED OUTPUT AS FOLLOWS.

(MFR DISC)

BET. TERMINALS	NO LOAD VOLTAGE
2 AND 3	0.7
3 AND 4	1.6
1 AND 2	2.2
1 AND 3	2.9
1 AND 4	4.5

106. LOAD ON SL/DTT CONSOLE CIRCUITS SHALL BE LIMITED TO 3 AMPERES.

107. FIG.A & C OR E WITH Z OPTION ARE FOR USE TO EFFECT CONNECTIONS WHEN SLIDE IS USED AS SLIDE NO. 1 IN POWER CABINET, WHEREAS FIGURES B AND D WITHOUT Z OPTION ARE FOR USE TO EFFECT CONNECTIONS WHEN SLIDE IS USED AS SLIDE NO. 1 IN PBX CABINET.

108. Y OPTION MUST BE FURNISHED WITH FIG. 5B.

109. (MFR DISC)

FEATURE OR OPTION	PROVIDE FIG.	APP OR WRG	QUANTITY
LOAD CAPACITOR PANEL	4		1 PER SLIDE
	5A		
RINGING AND TONE CKT WITH LT2 FOR DIAL TONE	7	T,Y	
SEE NOTE 107	C		

110. PRIOR TO ISSUE 15B, TERMINALS Y,X AND W WERE FORMERLY DESIGNATED 1,2 AND 3 RESPECTIVELY.

SUPPORTING INFORMATION

CATEGORY	NO.
EQUIPMENT DRAWING	J-86808B-( )
EQUIPMENT DESIGN REQT	J-86808
MAINTENANCE SPEC	167-486-301

OPTION INDEX

APP OR WIR	LOCATION
Z	3C8
Y	4C5
X	3B2,3B5,4H2,4C6,5C0
W	3B2
V	3A8,3G5
U	3A8,3G5
T	4C6,5F1
S	4A1
R	4C8
Q	4C8
P	3G1
N	3G1
M	4H9
L	3E8,4H9,4J9
K	4B8,4C9
J	4B0

DWG ISS	CD ISSUE	DWG ISS	CD ISSUE	DWG ISS	CD ISSUE
1	1	2A	1 APP 1A	3A	2A
4A	2A APP 1A	5A	2A APP 2A	6A	2A APP 3A
7B	2A APP 4B	8B	2A APP 5B	9D	3D
10B	3D APP 1B				

DWG ISS	CD ISSUE	DATE ISSUED	DRAWN	APP'D	
11D	3D APP 2D	6-17-65	LKK FJB	HMK DET FC	
12B	3D APP 3B	6-17-65	LKK FJB	HMK DET FC	
13B	4B	9-1966	AWL FC	SR DET FC	WH
14B	4B APP 1B	4-6-67	CWM GJW	SR DET FC	WH
15B	4B APP 2B	3-27-67	NO FJB	HMK DET FC	WH
16D	4B APP 3D	9-12-68	EAM F.C.	HMK DET FC	WH

16

SD-81581-01 1ISS

POWER SYSTEMS

SLIDE NO. 1 POWER SUPPLY FOR 757A PBX

J86808B

AT&TCO STANDARD

BELL TELEPHONE LABORATORIES INCORPORATED

DWG SIZE 6S

SD-81581-01-1

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EQUIPMENT NOTES:

201. WIRE NOT OTHERWISE SPECIFIED SHALL BE KS-13385, 22 GA SOLID. ALL 12 AND 14 GA LEADS SHALL BE KS-13385 STRANDED, EXCEPT AS NOTED.

202. FOR THE 48 VOLT AND 10 VOLT AC LOAD LEADS THE VOLTAGE DROP BETWEEN THE POWER CABINET AND THE PBX CABINETS SHALL BE ENGINEERED NOT TO EXCEED 1/4 VOLT.

203. SLIDE DC CABLING REPRESENTED BY ——— - - ——— - - ——TO BE FURNISHED AS PART OF POWER PLANT.

204. SLIDE AC CABLING REPRESENTED BY ——— - ——— - ——— TO BE FURNISHED AS PART OF POWER PLANT.

205. PBX CABLING REPRESENTED BY — — — — — — — NOT FURNISHED AS PART OF POWER PLANT.

206. (J1) JONES BRACKET TYPE SOCKET S-333-AB TO BE FURNISHED UNDER SPEC J86808H.

207. (J2) JONES BRACKET TYPE SOCKET S-333-AB, MARATHON TERMINAL BLOCKS AND GROUND DETAILS TO BE FURNISHED UNDER SPEC J86808B. JONES TYPE PLUG P-333-CCT (P2) NOT FURNISHED AS PART OF POWER PLANT.

208. (TS3) MARATHON TERMINAL BLOCK AND CO CONN KS-19163,L1 TO BE FURNISHED UNDER SPEC J86808D.

209. THE 404C TONE GENERATOR IS MOUNTED IN POSITION ONE OF CABINET 3, SLIDE 3.

210. CABLING FOR LEADS TTA, GRD TTA, TTB, GRD TTB AND TTI IS SHOWN IN THE PBX CABLING CIRCUIT SD-66735-01. REFER TO THE LEAD INDEX.

211 CABLING INFORMATION FOR LEAD TT2 IS SHOWN IN DRAWING SD-1E054-01 FOR 757A PBX

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. ALARM RELAYS ARE SHOWN IN A NON-OPERATED POSITION AS WOULD BE THE CASE WITH RECTIFIERS AND RINGING MACHINE IN A NON-OPERATING OR OFF CONDITION.

303. INDIVIDUAL POWER SUPPLY LEADS BETWEEN THE POWER SUPPLY AND THE PBX CABINETS SHALL BE PAIRED LEADS RUNNING CLOSE TOGETHER BUT NOT NECESSARILY TWISTED. (REF BSP 802-005-180).

304. COMMERCIAL AC SERVICE AND RECEPTACLE NOT FURNISHED AS PART OF POWER PLANT. LEADS BETWEEN THE HOUSE SERVICE BOARD AND RECEPTACLE SHALL BE PROTECTED WITH A 20 AMPERE FUSE AND SIZED TO PROVIDE 105 VOLTS MINIMUM AT THE EQUIPMENT.

305. THESE CONNECTIONS ARE PROVIDED WHEN OPERATING POWER FOR 808 TYPE PBX SWITCHBOARDS ARE FURNISHED FROM THIS POWER PLANT.

TABLE A
TIMING SEQUENCE CHART
(FOR RINGING MACHINE AND INTERRUPTER, KS-15985,L1)

PULSE DESIGNATION	DURATION OF PULSE		USE	PULSE NO.	SECONDS 0 1 2 3 4 5 6 7 8
	CONTACT OPEN	CONTACT CLOSED			
120 IPM		0.250 TO 0.300	FT FF1 FF2	1a b c	
60 IPM		0.450 TO 0.550	BT-LT F1 F2	2a b c	
30 IPM	.250 TO .300		SF1 SF2	3a b	
15 IPM		0.250 TO 0.300	SU	4a	
15 IPM (RING)		0.950 TO 1.05	CR R1	5a b	
7 1/2 IPM		0.250 TO 0.300	TMO TM1	6a b	
7 1/2 IPM		0.250 TO 0.300	TM2 TM3	7a b	
7 1/2 IPM DELAYED		0.250 TO 0.300	PU0 PU1	8a b	
7 1/2 IPM DELAYED		0.250 TO 0.300	PU2 PU3	9a b	

0 20 40 60 80 100 120 140 160
REVOLUTIONS OF HIGH SPEED DRIVE SHAFT
(1 REV EQUIVALENT TO .05 SEC)

NOTES:

A. — DENOTES PERIOD DURING WHICH CONTACT IS CLOSED.

B. CLOSURE OF CONTACT 5a IS CONSIDERED AS THE "ZERO" REFERENCE.

C. CONTACT 5b SHALL CLOSE .025 TO .075 SEC AFTER 5a OPENS AND 5b SHALL OPEN .025 TO .075 SEC BEFORE 5a CLOSES.

D. TIMING PULSES SHALL OCCUR WITHIN ±.050 SEC OF THE TIMES SHOWN ON THE TIMING CHART UNLESS OTHERWISE SPECIFIED.

DRAWING ISSUE	
11D	LKK FJB FC
12B	LKK FJB FC
13B	AWL FC FC
14B	CWM GKL FC
15B	
16D	

16

SLIDE NO. 1 POWER SUPPLY FOR 757A PBX

(2) SD-81581-01-2

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FIG. B
AC SERVICE FOR PBX CABINET

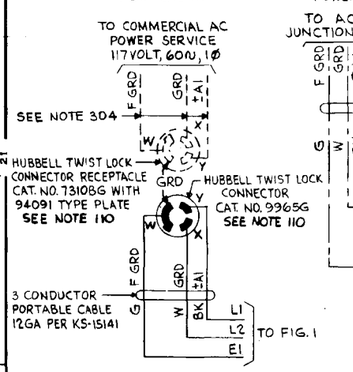


FIG. A
AC SERVICE FOR POWER CABINET

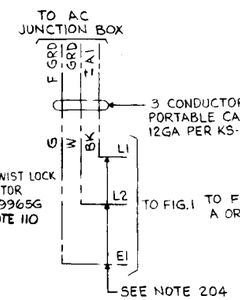


FIG. 1
AC DISTRIBUTION CIRCUIT

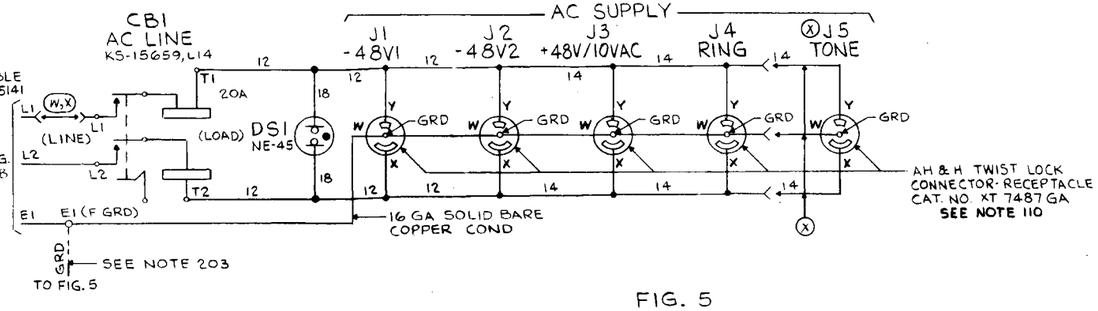


FIG. 2
1ST -48V RECTIFIER CIRCUIT

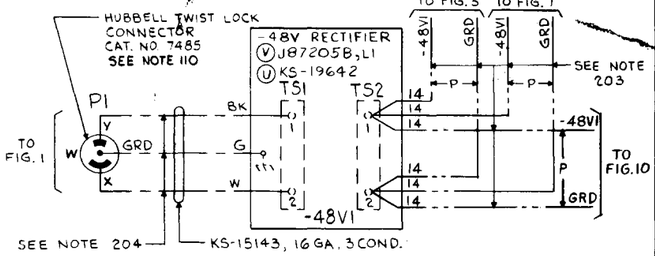


FIG. 5
DC DISTRIBUTION AND ALARM CIRCUIT
(SEE NOTE 302)

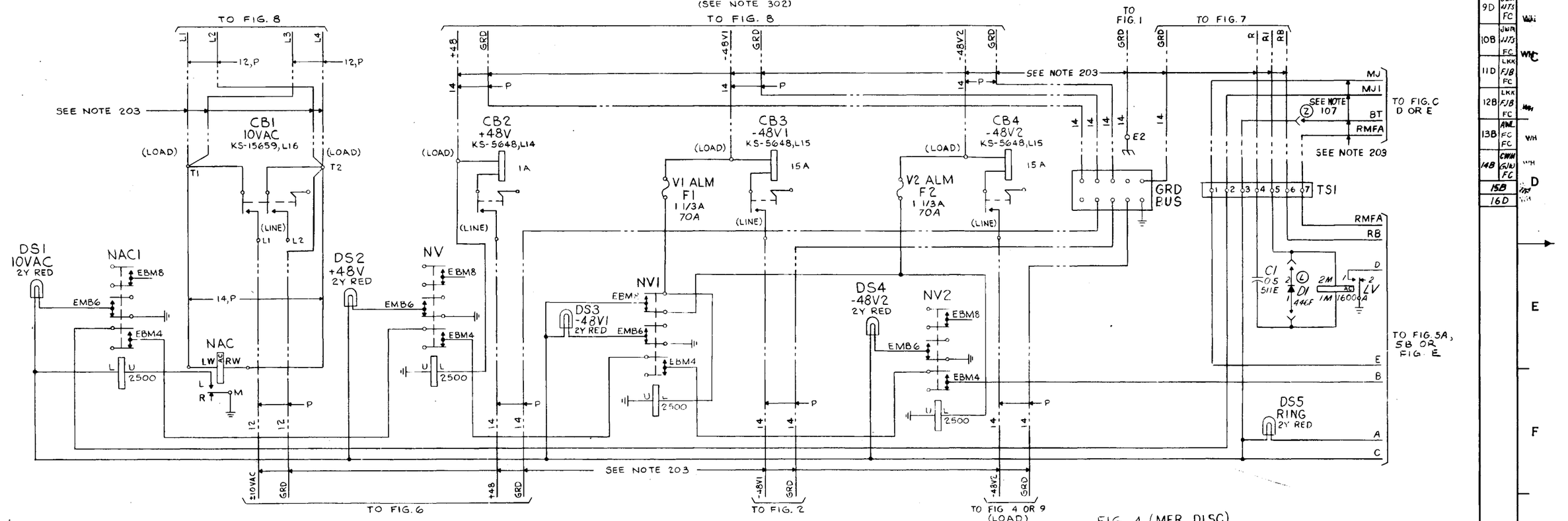


FIG. 6
+48V RECTIFIER AND 10VAC SUPPLY CIRCUIT

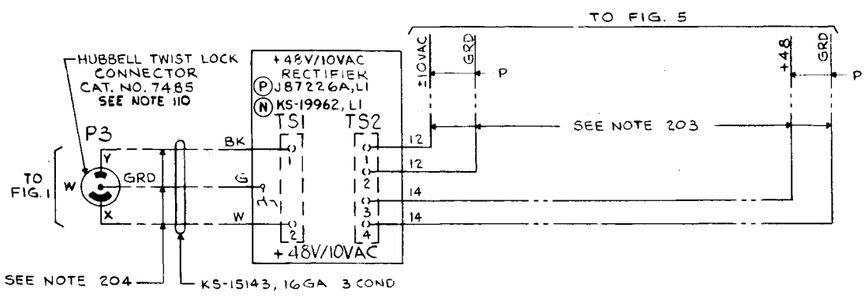


FIG. 3
2ND -48V RECTIFIER CIRCUIT

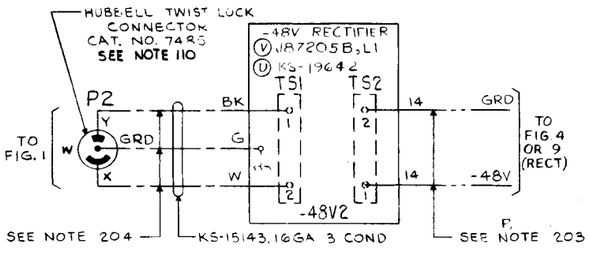
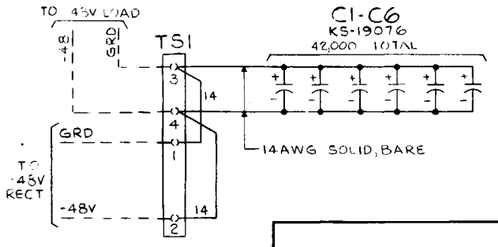


FIG. 4 (MFR DISC)
LOAD CAPACITOR PANEL



SD-81581-3

SLIDE NO. 1 POWER SUPPLY FOR 757A PBX

SD-81581-01-3

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FIG. 7
RING AND TONE CIRCUIT
(SEE TABLE A)

CABLE AND JONES TYPE 33 TERMINAL PLUG FURNISHED AS PART OF KS-15985,L1 MACHINE

RING MACHINE AND INTERRUPTER KS-15985,L1

P1 — J1 (SEE NOTE 206)

PULSE NO.		
120 IPM	1	a, b, c, d
60 IPM	2	e, f
30 IPM	3	a, b
15 IPM	4	a
15 IPM RING	5	a, b
7 1/2 IPM	6	a, b
7 1/2 IPM	7	a, b
7 1/2 IPM	8	a, b
7 1/2 IPM	9	a, b

1 (LT1-120IPM)FT
2 (120IPM)FF1
3 (120IPM)FF2
4 (LT1-60IPM)BT
5 (60IPM)F1
6 (60IPM)F2
7 AUD 1
8 AUD 2
12 (30IPM)SF1
13 (30IPM)SF2
14 (15IPM) SU
15 RING GRD
16 AC-DC AUD
17 MR RI BRI
18 TM0
19 TM1
20 TM2
21 TM3
22 PU0
23 PU1
24 PU2
25 PU3
26 (LT2)DT

20 CYCLE ALT
HI V TONE
LO V TONE

AR 1 5110

C1 SPRAGUE CAT NO. 121D106-X0100Q1 10

F1 70B 2 AMP

TS1

GRD BUS

SEE NOTE 203

HUBBELL TWIST LOCK CONN CAT. NO. 7485 AND CORD FURNISHED BY MFR SEE NOTE 110

P4: GRD (BK), GRD, W — AC MOTOR

TO FIG. 1

P5: GRD (BK), GRD, W — 102B FREQ GEN (SEE NOTE 105) — AUD 1, AUD 2

20

TO FIG. 5: R, RI, RB, GRD

TO FIG. 2: -48V1, GRD

P

TT
404C TONE GEN
SEE NOTE 209

J3
KS-14528, L2

[TTA]-48	A
GRD TTA	C
[TTB]-48	H
GRD TTB	E
	B
[TT1] DT	F
	D

TO -48V SUPPLY CABINET 2, SLIDE 3

TO ORIGINATING REGISTER CKT

SEE NOTE 210

[TT2] DT — SEE NOTE 211

TO LOCAL CONVERTER FOR TOUCH TONE

FIG. 9
LOAD CAPACITOR CIRCUIT

TO FIG. 5 OR -48V LOAD

-48V, GRD

R C1-C6 KS-19319 42,000 TOTAL

Q C1.1-C1.3 SPRAGUE D39159

K KS-20133,L9 48,000 TOTAL

GRD, -48V — TO FIG. 3 OR -48V RECT

BUS BAR

FIG. 10
LOAD CAPACITOR CIRCUIT

GRD, -48V1 — TO FIG. 2 (-48V1)

C1: R KS-19319 7000; Q SPRAGUE D39159 16,000; K KS-20133,L9 16,000

SEE NOTE 203

TO FIG. 8

FIG. 5A (MFR DISC)

LV1

A EMB6

B EBM4

C L U 2500

D

E

TO FIG. 5

FIG. 5B
RINGING BATTERY FUSE ALARM

RMFA — BM12, BM11

RB — 2U 1U 2450

LV1 — BM2, BM1

A, B, E

C — 2L 1L 2450

L R1 KS-13490,L1 1200

L C2 KS-16390,L8 40

M

D

TO FIG. 5

DRAWING ISSUE

1	J.G.T. F.C.
2A	J.G.T. F.C.
3A	J.G.T. F.C.
4A	AEG AEZ F.C.
5A	FJD WH F.C.
6A	FJD F/B F.C. WH
7B	KJW WH F.C. WH
8B	RAD WH F.C. WH
9D	JWH WH F.C. WH
10B	JWH WH F.C. WH
11D	LKK F/B F.C.
12B	LKK F/B F.C. WH
13B	AML F.C. F.C. WH
14B	CWM G/W F.C. WH
15B	WH
16D	WH

SLIDE NO. 1 POWER SUPPLY FOR 757A PBX

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TO 608 TYPE PBX SWITCHBOARD RINGING AND TONE CIRCUITS (SEE NOTE 305)

(SEE NOTE 207) J2 P2

FT(LTI-120IPM) 1
FF1(120 IPM) 3
FF2(120IPM) 5
BT(LTI-60IPM) 9
F1(60IPM) 10
F2(60IPM) 11
AUD 1 (X) 7
AUD 2 (X) 8
SF1(30IPM) 12
SF2(30IPM) 13
SU(15IPM) 14
RING GRD 15
AC-DC AUD 16
MR R1 BR1 17
TMO 19
TM1 20
TM2 21
TM3 22
PU0 23
PU1 24
PU2 25
PU3 26
DT(LT2) (T) 30

TO FIG. 7

TO 757 A PBX RINGING AND TONE CIRCUITS

20, SEE NOTE 203

SEE NOTE 205

FIG E
(ALARM LEADS FOR POWER CABINET (SEE NOTES 107 AND 208)

GG KS-19163,L1

MJ 1
MJ1 2
BT 3
4
5
6
7
8
9
RMFA 10
50

MJ
MJ1
RMFA

TO FIG 5

TO PBX ALARM CIRCUIT

SEE NOTE 203

SEE NOTE 205

FIG. 8
TERMINAL BLOCKS LOCATED IN CROWN OF POWER CABINET (SEE NOTE 207)

DSS
1
2
±10VAC GRD (A)
±10VAC GRD (B)
TO DSS CONSOLE CIRCUITS

SL/DTT
3
4
±10VAC GRD (A)
±10VAC GRD (B)
TO SL OR DTT CONSOLE CIRCUITS (SEE NOTE 106)

TS1
10VAC

TO GRD BUS A
TS4 -48V

14

SEE NOTE 203

A B 0 1 2 3 4

14

GRD BUS

SEE NOTES 202, 205, AND 303

SEE NOTE 203

-48V2
1
2
-48 GRD (A)
-48 GRD (B)
TO -48V2 PBX LOAD

-48V1
3
4
-48 GRD (A)
-48 GRD (B)
TO -48V1 PBX LOAD

+48V
5
6
+48 GRD (A)
+48 GRD (B)
TO +48V PBX LOAD

TS2
48V

A B C 0 1 2 3 4 5 6

GRD BUS

SEE NOTE 203

P P P P P P

12 14

L1 L2 L3 L4

TO FIG. 5

-48V2 GRD(-48V2) -48V1 GRD(-48V1) +48 GRD(+48)

TO FIG. 5

FIG. D
ALARM LEADS FOR PBX CABINET (SEE NOTE 107)

MJ 1
MJ1 2
RMFA 3

TO FIG 5

TO PBX ALARM CIRCUIT

TS6

SEE NOTE 203

SEE NOTE 205

FIG. C (MFR DISC)
ALARM LEADS FOR POWER CABINET (SEE NOTES 107 AND 208)

MJ 1
MJ1 2
BT 3
4
5
6
7
8
9
RMFA 10

MJ
MJ1
RMFA

TO FIG 5

TO PBX ALARM CIRCUIT

SEE NOTE 203

TS3

SEE NOTE 205

DRAWING ISSUE

1	J&T	FC
2A	J&T	FC
3A	J&T	FC
4A	AEG AEZ	FC
5A	FJD VJS	FC
6A	FJD FJB	FC
7B	KJW VJS	FC
8B	RAD VJS	FC
9D	JWM VJS	FC
10B	JWM VJS	FC
11D	LKK FJB	FC
12B	LKK FJB	FC
13B	AWL	FC FC
14B	CWM FJV	FC
15B		
16D		

SLIDE NO. 1 POWER SUPPLY FOR 757A PBX

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CIRCUIT REQUIREMENTS

SLIDE NO. 1 POWER SUPPLY FOR 757A PBX

APPARATUS DESIG	APPARATUS CODE	APPARATUS OPT	APPARATUS FIG.		MECH REQT BSP FIG.	MECH REQT CONT PRESS.	MECH REQT ARM. TRVL.	CIRCUIT PREPARATION BLOCK OR INSULATE	CIRCUIT PREPARATION TEST CLIP DATA CONN BAT.	CIRCUIT PREPARATION TEST CLIP DATA CONN GRD	TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT TEST WDG	TEST FOR	AFTER SOAK MA.	TEST MA.	READJ MA.	REMARKS
RELAYS																		
LV	J51		5		3		23					9		0		AC	AC	
									1M(LV)	2M(LV)	B/G	9		NO		3.9	4.1	
									1M(LV)	2M(LV)	B/G	9		0		5.1	4.3	
LV1	AF67		5A		207					U(LV1)	GRD	1/2		0		7.1	6.8	
LV1	1/2AK23		5B		3			1(LV)		1L(LV1)	GRD	1		0		7.8	7.4	MOUNTED WITH (RMFA)
NAC	*		5						P1	P2	AC/V	6		0			9.7V	60 CYCLE
NAC1	AF67		5		207					U(NAC1)	GRD	1/3		0		7.1	6.8	
NV	AF67		5		207					U(NV)	GRD	4/7		0		7.1	6.8	
NV1	AF67		5		207					U(NV1)	GRD	1		0		7.1	6.8	
NV2	AF67		5		207					U(NV2)	GRD	5		0		7.1	6.8	
RMFA	1/2AK23		5B		3				2U(RMFA)		B/V			0		7.8	7.4	MOUNTED WITH (LV1)

DRAWING ISSUE	
1	JGT FC.
2A	JGT FC.
3A	JGT LHE F.C.
4A	AEG AEZ FC.
5A	FJD JJT3 FC.
6A	FJD FC.
7B	KJW JJT3 F.C.
8B	RAD JJT3 FC.
9D	JWW FC.
10B	JWN FC.
11D	LKK FC.
12B	LKK FC.
13B	AWL F.C.
14B	CWM GJC FC.
15B	
16D	

*ALLIED CONTROL COMPANY, INC
"AS" RELAY 9.7V, COIL 29

TEST NOTES:

1. BEFORE MAKING TEST, -48V1 RECTIFIER SHOULD BE OPERATING AND -48V1 CIRCUIT BREAKER (CB3) IN "ON" POSITION.
2. BEFORE MAKING TEST, BLOCK (LV) RELAY IN OPERATED POSITION.
3. BEFORE MAKING TEST, BLOCK (NAC) RELAY IN OPERATED POSITION.
4. BEFORE MAKING TEST, +48V RECTIFIER SHOULD BE OPERATING.
5. BEFORE MAKING TEST, -48V2 RECTIFIER SHOULD BE OPERATING AND -48V2 CIRCUIT BREAKER (CB4) IN "ON" POSITION.
6. BEFORE MAKING TEST, 10VAC CIRCUIT BREAKER (CB1) SHOULD BE IN "OFF" POSITION.
7. BEFORE MAKING TEST, +48V CIRCUIT BREAKER (CB2) SHOULD BE IN "ON" POSITION.
8. TEST AND READJUST THE(LV)RELAY FOR OPERATION ON AC IN CIRCUIT. TEST FOR RELEASE BY SHORT CIRCUITING THE WINDING.
9. DISCONNECT 1M LEAD TO RELAY.

SLIDE NO. 1 POWER SUPPLY FOR 757A PBX

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SLIDE NO. 1 POWER SUPPLY FOR 757A PBX

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SD-81600-01

CIRCUIT NOTES:

101.

DESIG	FUSE AMP	POTENTIAL	ONE PER
TTA	1-1/3	-48	CKT
TTB	1-1/3	-48	CKT
A		GRD	CKT
B		GRD	CKT

102.

FEATURE OR OPTION	PROVIDE FIG.	APP OR WIR	QUANTITY
AC-DC & RINGING SUPPLY WITH TOUCH-TONE DIAL TONE PROVIDED	1	W	1 PER CKT
-48V RECTIFIER	2		1 PER CKT
LOAD CAPACITOR	4		1 PER CKT

103.

RECORD OF 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	M.D.	
4B	Z OR Y	Z		Y		Z	
5D	W OR X	X		W		X	
6B	U OR V	V		U		V	
7B	T	NONE		T			

104. REMOVE LEAD FROM TERMINAL STRIP TO (J1) CONNECTOR FOR 756A PBX OPERATION.

105. (MFR DISC)

FEATURE OR OPTION	PROVIDE FIG.	APP OR WRG	QUANTITY
AC-DC & RINGING SUPPLY WITH LT2 FOR DIAL TONE	1	X	1 PER CKT
LOAD CAPACITOR	3		1 PER CKT

EQUIPMENT NOTES:

201. WIRING NOT OTHERWISE SPECIFIED SHALL BE 22GA KS-13385, SOLID. LEADS OVER 20GA SHALL BE KS-13385, STRANDED.

202. THE 404C TONE GENERATOR IS MOUNTED ON SLIDE 1, MOUNTING POSITION A.

FIG. 2
-48V RECTIFIER

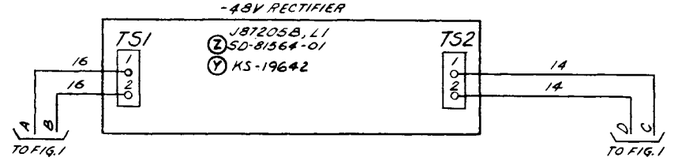


FIG. 4
LOAD CAPACITOR

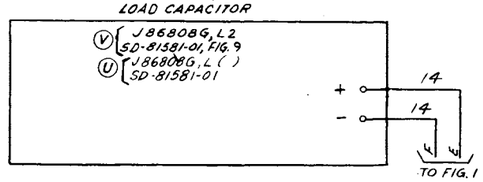


FIG. 1
AC, DC, & RINGING SUPPLY

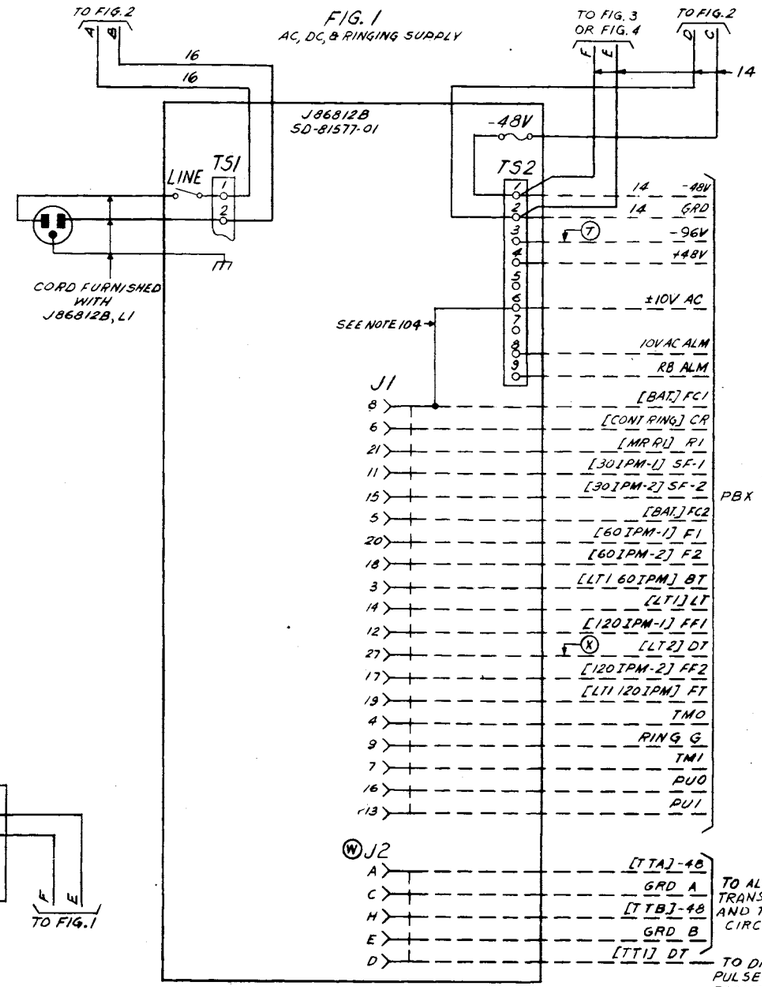
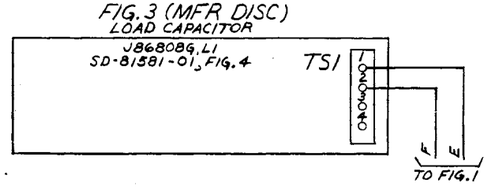


FIG. 3 (MFR DISC)
LOAD CAPACITOR



SUPPORTING INFORMATION

CATEGORY	NO.
EQUIPMENT DRAWING	J86464L-( )
EQUIPMENT DESIGN REQT	J86464
MAINTENANCE SPEC	167-480-301

DWG ISSUE	EE OR CD ISSUE	DATE ISSUED	Drawn	APPD
1	1	10-23-61	R.E.B.	W.C.W. D.M.S. F.C.
2A	2A	4-12-62	E.J.O. W.A.S.	W.C.W. D.M.S. F.C.
3D	3D-APP 1D	11-26-63	R.A.B. J.K.	F.V.K. D.E.T. F.C.
4B	3D APP 2B	2-17-65	E.P.M. J.J.S.	H.M.K. DET FC
5D	4D	8-25-65	J.J.S. F.J.B.	H.M.K. DET FC
6B	5B	9-28-65	R.A.B. J.J.S.	H.M.K. DET FC
7B	5B APP 1B	1-31-67	R.D.M. F.J.B.	S.R. DET FC

PARTIALLY REPLACES SD-81326-01

SD-81600-01

POWER SYSTEMS

POWER SUPPLY CIRCUIT
AC, DC & RINGING SUPPLY
FOR 756A BATTERYLESS PBX
J86464L

AT&TCO STANDARD

SD-81600-01

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SD-81600-01

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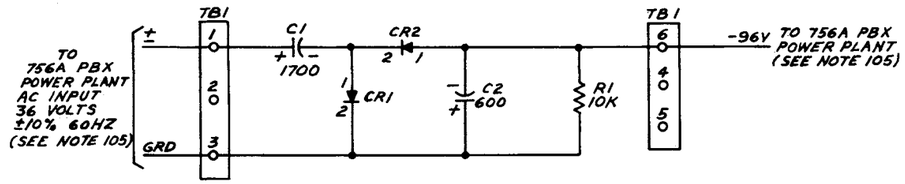
SHEET INDEX

CONTENTS	SHEET NO.
SHEET INDEX SUPPORTING INFORMATION FS1 -96 VOLT APPLIQUE FS2 AC SUPPLY APP FIG. 1	1
CIRCUIT NOTES EQUIPMENT NOTES INFORMATION NOTES	2

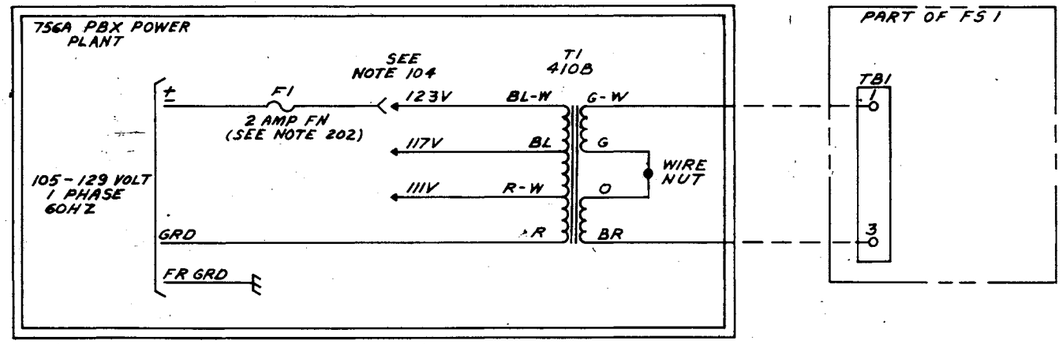
FS 1
-96 VOLT APPLIQUE



SUPPORTING INFORMATION

CATEGORY	NO.
EQUIPMENT DRAWING	J86464P
EQUIPMENT DESIGN REQT	J86464
MAINTENANCE SPECIFICATION	167-480-301

FS 2
AC SUPPLY
(SEE NOTES 105 & 302)



APP FIG. 1

CAPACITOR

DESIG	CODE	
C1	36D172F075AB6B, 1700	SPRAGUE
C2	36D601F150AB6B, 600	SPRAGUE

DIODE

DESIG	CODE
CR1	426A
CR2	426A

RESISTOR

DESIG	CODE
R1	KS-13492, L2, 10K

TERMINAL BOARD

DESIG	CODE
TB1	(Z) 6A-106HS, MARATHON
	(Y) 6-164-3/4W CINCH JONES

DWG ISSUE	SEE OR CD ISSUE	DATE ISSUED	DRAWN	APPD	
1	1	2-27-67	RDM FJB	SR DET FC	WH
2B	1 APP1B	11-14-67	RC FC	HMK DET FC	WH

2

SD-81920-01 1M99

POWER SYSTEMS

POWER SUPPLY CIRCUIT

-96 VOLT DC APPLIQUE FOR 756A PBX J86464P

AT&TCO STANDARD

SD-81920-01-1

2 SHEETS

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CIRCUIT NOTES:

101.

DESIG	FUSE AMP	POTENTIAL	ONE PER
F1	2		CKT
BATTERY SYMBOL		VOLTAGE RANGE	

102.

FEATURE OR OPTION	PROVIDE		
	FIG	APP OR WRG	QUANTITY
-96 VOLT APPLIQUE	1		1 PER CKT
AC SUPPLY	2		FOR INFORMATION ONLY

103.

RECORD OF APP FIG., 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	
2B	Y OR Z	Z		Y		Z	

CIRCUIT NOTES (CONT):

104. CONNECT TAPS DEPENDING ON WHETHER THE AC SERVICE VOLTAGE IS 111, 117 OR 123 VOLTS.

105. THIS CIRCUIT DERIVES INPUT POWER FROM, AND PROVIDES A -96 VOLT OUTPUT TO, THE FOLLOWING 756A PBX CIRCUITS: SD-81326-02, SD-81577-01 & SD-81599-01.

EQUIPMENT NOTES:

201. WIRING NOT OTHERWISE SPECIFIED SHALL BE 22GA KS-13385 SOLID.

202. FUSES DESIGNATED FN SHALL BE OF THE MULTIPLE-ELEMENT (TIME DELAY) TYPE.

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. FS2 IS PROVIDED FOR REFERENCE ONLY, TO INDICATE PROPER CONNECTION TO THE 410B TRANSFORMER WHICH IS PROVIDED WITH THE CONNECTING CIRCUITS.

DRAWING ISSUE

1	WH
2B	WH

2

POWER SUPPLY CIRCUIT (2)

SD-81920-01-2

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ISSUE	ISSUE	DATE ISSUED	DRAWN	APPD
1	1	5-10-65	WPA SAK EWS	GAM RAV KFJ
2D	1 APP ID	12-27-65	RCZ SAK EWS	RAV GFH

SHEET INDEX

SHEET NO.	CONTENTS
1	SHEET INDEX OPTION INDEX CIRCUIT NOTES SUPPORTING INFORMATION CROSS CONNECTION NOTES
2	PART OF FS 1-INWARD RESTRICTION CKT
3	SCI - SEIZURE CKT REQT TABLE
4	APP FIG. 1 PART OF FS 1-INWARD RESTRICTION CKT
5	PART OF CAD 1
6	PART OF CAD 1

OPTION INDEX

APP OR WIRING	LOCATION
Z	2H2, 2H4
Y	2H2, 2H4

CIRCUIT NOTES:

101.

DESIG	FUSE AMP	POTENTIAL	ONE PER	TERM. DESIG
IR	1-1/3	-48	IN. RSTN CKT	

BATTERY SYMBOL	VOLTAGE RANGE
-48	45-52V

102.

FEATURE OR OPTION	PROVIDE		
	APP FIG.	APP OR WIRING	QUANTITY
INWARD RESTRICTION CIRCUIT	1		1 PER PBX

104.

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	

CROSS CONNECTION NOTES:

401. TO RESTRICT A STATION LINE:

(A) CONNECT IDENTICALLY NUMBERED IR20-79 TERMINAL TO A NON-CONNECTED IR(A-J) TERMINAL.

(B) REMOVE OPTION Z FROM THE RESTRICTED LINE.

(C) CONNECT OPTION Y TO THE APPROPRIATE CONTACT.

SUPPORTING INFORMATION

CATEGORY	NO.
EQUIPMENT DWGS	J-58829-AL
CABLING DRAWINGS	SD-66920-01

SD-5E003-01-1

SD-5E003-01

PBX SYSTEMS

NO. 756A

INWARD RESTRICTION CIRCUIT

(2)

AT & T CO STANDARD

SD-5E003-01-1

6 SHEETS

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PART OF FS I
INWARD RESTRICTION CIRCUIT

DRAWING ISSUE		
1	UOM SAK KFJ	
2D	RDZ SAK GFH	

HW

4E0

IR(A-J)

1 OR 12

IR(A-J)

1U OR 1L — 2U OR 2L — IR — 48

640

IR(A-J)

SEE NOTE 401

IR70-79 — AUO-9 — 1 — IR7 — TCS7 — 8

IR60-69 — AUO-9 — 2 — IR6 — TCS6 — 8

IR50-59 — AUO-9 — 3 — IR5 — TCS5 — 8

IR40-49 — AUO-9 — 5 — IR4 — TCS4 — 8

IR30-39 — AUO-9 — 10 — IR3 — TCS3 — 8

IR20-29 — AUO-9 — 11 — IR2 — TCS2 — 8

4F0

RLS — UO-9

RLA

RLB

V

TCS2 — COTA — 2 — COTB — 2 — XQ — XR

BUSY VERIF CKT — BV

STR — RCCO,I — RUCB — UO-9 — 1U OR 1L — 2U OR 2L — 48 — 960

REG

BSYAA — U L — 1000

BSYAA — BSYBA — BSYA — BSYBA — BYA — C — 48

HA — AUO-9 — 7 — HB — HCA — 6 — NT — 2

SI5

BSYBA — BSYAA — BSYB — BSYBA — BYB — 10

HC — AUO-9 — 9 — HD — HCB — 6 — NT — 4

SI6

IN20-29 — 8

IN20-29 — L2 1U 2U — 950

IN20-29 — 10

L20-29 — 10

M

S- — SMT- — HMT- — HMK- — 700 — 48

U- — S- — JT- — COT — CO- — TRK-

CON-

TM2

TKO,8,9 — TRMO,1 — V TM6,7

TM3-7

LHM30-79 — L — R — 900

SA — S — Z — Y — IR(A-J) — 3 OR 10 — SEE NOTE 401

S — SA — Z — Y — IR(A-J) — 3 OR 10 — SEE NOTE 401

BYA — NT — BSYA — RCBI — HCA — RCBI — BYA — NT — BSYA — BSYB — HE

RCBO — JTAA

BYB — NT — BSYB — RCBI — HCB — RCBI — BYB — NT — BSYB — BSYA — HF

RCBO — JTBA

LINE, LINK AND MARKER CKT

IRA — 9 — 4 OR 9 IR- — IRJ — 4 — IR

IRA — 8 — 5 OR 8 IR- — IRJ — 5 — IR

SHEET NOTES:

1. ON IR(A,J) RELAYS THE SPRINGS, 1-5 ARE ASSOCIATED WITH IR(B,D,F,H,J,) RELAYS AND 6-12 WITH IR(A,C,E,G,,).

2

INWARD RESTRICTION CIRCUIT (2)		SD-5E003-01-2
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CIRCUIT REQUIREMENTS

INWARD RESTRICTION CIRCUIT

APPARATUS DESIG	APPARATUS CODE	APPARATUS OPT.	APPARATUS FIG.		MECH REQT BSP FIG.	MECH REQT CONT PRES	MECH REQT ARM. TRVL	CIRCUIT PREPARATION BLOCK OR INSULATE	CIRCUIT PREPARATION TEST CLIP DATA CONN BAT.	CIRCUIT PREPARATION TEST CLIP DATA CONN GRD	TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT TEST WDG	DIRECT CURRENT FLOW REQT TEST FOR	DIRECT CURRENT FLOW REQT AFTER SOAK MA	DIRECT CURRENT FLOW REQT TEST MA	DIRECT CURRENT FLOW REQT READJ MA	REMARKS
RELAYS																		
IR A,C,E G,I	1/2 AK6		1		2			12 [IR(A-J)]		1U [IR(A-J)]	GRD	1		0		29	27.5	
IR B,D,F H,J	1/2 AK6		1		2			1 [IR (A-J)]		1L [IR(A-J)]	GRD	1		0		29	27.5	
AUO-9	AJ509		1		235			12(AUO-9)		U(AUO-9)	GRD			0		33	31.5	
								12(AUO-9)		U(AUO-9)	GRD			NO		13	13.5	

TEST NOTES:

1. IRA MOUNTED WITH IRB, IRC MOUNTED WITH IRD, IRE MOUNTED WITH IRF ETC.

DRAWING ISSUE

1	JOM SAK KFJ
2D	ROZ SAK GFH

SD-5E003-01-3

INWARD RESTRICTION CIRCUIT | SD-5E003-01-3

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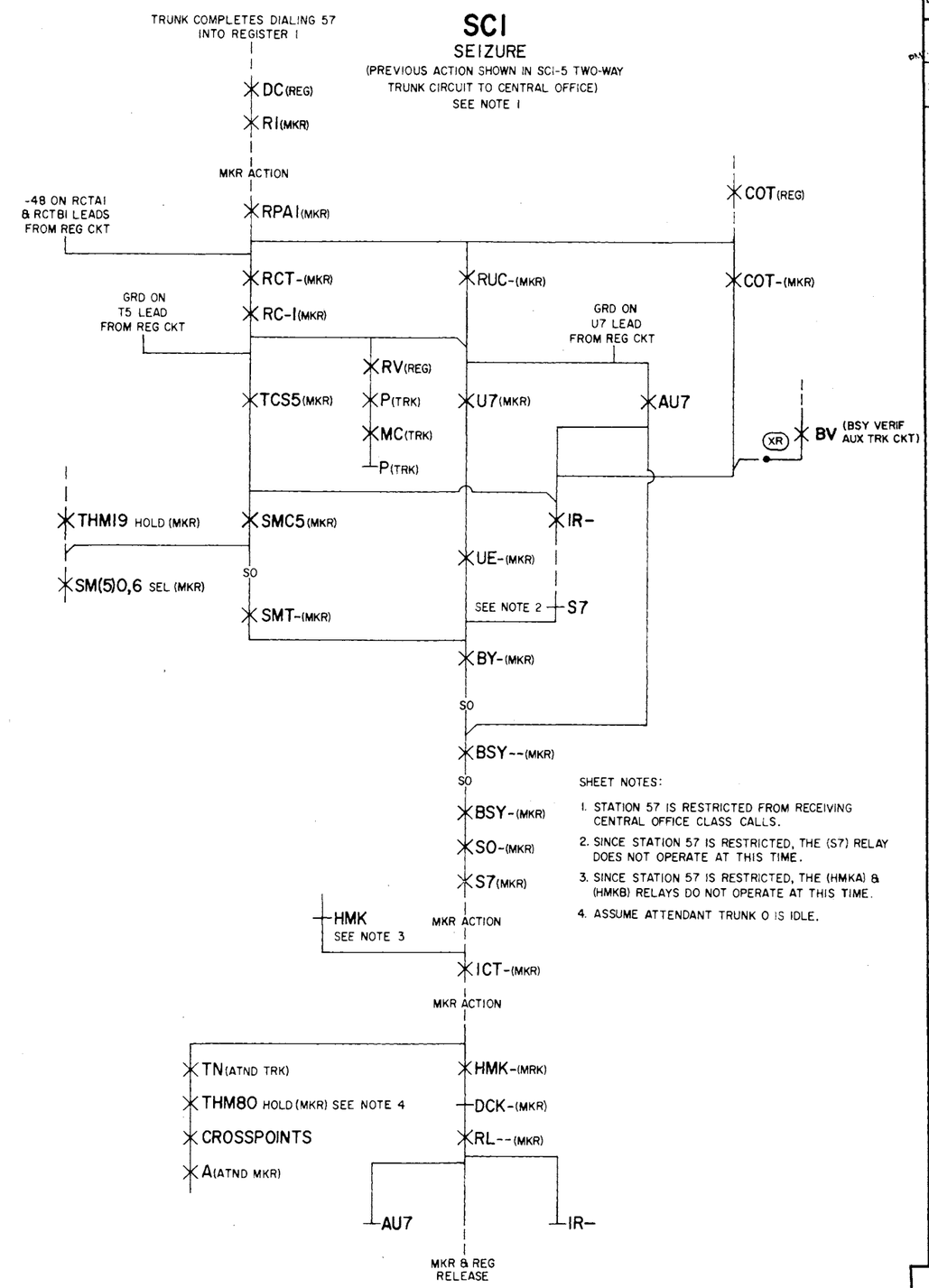
22

SCI SEIZURE

(PREVIOUS ACTION SHOWN IN SCI-5 TWO-WAY TRUNK CIRCUIT TO CENTRAL OFFICE)
SEE NOTE 1



SHEET NOTES:

1. STATION 57 IS RESTRICTED FROM RECEIVING CENTRAL OFFICE CLASS CALLS.
2. SINCE STATION 57 IS RESTRICTED, THE (S7) RELAY DOES NOT OPERATE AT THIS TIME.
3. SINCE STATION 57 IS RESTRICTED, THE (HMKA) & (HMKB) RELAYS DO NOT OPERATE AT THIS TIME.
4. ASSUME ATTENDANT TRUNK O IS IDLE.

DRAWING ISSUE

1	JOM SAK KFJ
2D	ROZ SAK GFH

2

INWARD RESTRICTION CIRCUIT (2) | SD-5E003-01-3

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APP FIG. 1

RELAY

DESIG	AUO-9										IRA, C, E, G, I		IRB, D, F H, J	
CODE	[10] AJ 509										[5] AK 6			
OPTION														
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC
12	FM	4FO-1									BM	2B7		
11	M	2B7									BM	4EO		
10	M	2B6									BM	2H2		
9	M	2GO									BM	2F8		
8	EBM										BM	2F8		
7	M	2EO												
6	EMB													
5	M	2B5											BM	2F8
4	EBM												BM	2F8
3	M	2B4											BM	2H2
2	M	2B3											BM	4E1
1	M	2B2											BM	2B7
COIL		4FO-2										2B7		2B7

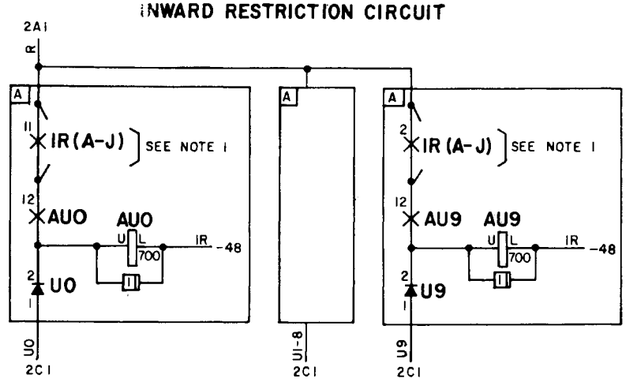
DIODES

DESIG	LOC	CODE
[10] UO-9	4FO-1	446F

NETWORKS

DESIG	LOC	CODE
[10] AUO-9	4FO-1	186A

PART OF FS 1
INWARD RESTRICTION CIRCUIT



SHEET NOTES:

1. ON IR(A-J) RELAYS THE SPRINGS, 1-5 ARE ASSOCIATED WITH IR(B,D,F,H,J) RELAYS AND 8-12 WITH IR(A,C,E,G,I).

DRAWING ISSUE

1	WAM SAK KFJ	HW
2D	ROZ SAK GFH	

2

INWARD RESTRICTION CIRCUIT (2) | SD-5E003-01-4

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PART OF CAD 1

(FOR APP FIG. 1)

S	50	S 44
SA	25	SA44
S	49	S 43
SA	24	SA43
S	48	S 42
SA	23	SA42
S	47	S 41
SA	22	SA41
S	46	S 40
SA	21	SA40
S	45	S 39
SA	20	SA39
S	44	S 38
SA	19	SA38
S	43	S 37
SA	18	SA37
S	42	S 36
SA	17	SA36
S	41	S 35
SA	16	SA35
S	40	S 34
SA	15	SA34
S	39	S 33
SA	14	SA33
S	38	S 32
SA	13	SA32
S	37	S 31
SA	12	SA31
S	36	S 30
SA	11	SA30
S	35	S 29
SA	10	SA29
S	34	S 28
SA	9	SA28
S	33	S 27
SA	8	SA27
S	32	S 26
SA	7	SA26
S	31	S 25
SA	6	SA25
S	30	S 24
SA	5	SA24
S	29	S 23
SA	4	SA23
S	28	S 22
SA	3	SA22
S	27	S 21
SA	2	SA21
S	26	S 20
SA		SA20

TO LINE, LINK, & MARKER CKT. (SEE SD-66920-01 CAD 7)

(A) T.S.

[1] LOCAL CABLE

S	50	S 69
SA	25	SA69
S	49	S 68
SA	24	SA68
S	48	S 67
SA	23	SA67
S	47	S 66
SA	22	SA66
S	46	S 65
SA	21	SA65
S	45	S 64
SA	20	SA64
S	44	S 63
SA	19	SA 63
S	43	S 62
SA	18	SA62
S	42	S 61
SA	17	SA61
S	41	S 60
SA	16	SA60
S	40	S 59
SA	15	SA59
S	39	S 58
SA	14	SA58
S	38	S 57
SA	13	SA57
S	37	S 56
SA	12	SA56
S	36	S 55
SA	11	SA55
S	35	S 54
SA	10	SA54
S	34	S 53
SA	9	SA53
S	33	S 52
SA	8	SA52
S	32	S 51
SA	7	SA51
S	31	S 50
SA	6	SA50
S	30	S 49
SA	5	SA49
S	29	S 48
SA	4	SA48
S	28	S 47
SA	3	SA47
S	27	S 46
SA	2	SA46
S	26	S 45
SA		SA45

TO LINE, LINK, & MARKER CKT. (SEE SD-66920-01 CAD 7)

(A) T.S.

[2] LOCAL CABLE

TO PWR SUP CKT (SEE SD-66920-01 CAD 7)

LOCAL CABLE

-48V(IR)	50	L (AU9) REL
	25	
	49	
GRD(IR)	24	4 (IR J) REL
IR7	48	1
IR6	23	2
IR5	47	3 (AU9) REL
IR4	22	5
IR3	46	10
IR2	21	11
	45	
	20	
RLS	44	12 M (IR1) REL
HF	19	98
HE	43	88 (IRA) REL
HD	18	9
HC	42	9M
HB	17	7 (AU9) REL
HA	41	7M
U9	16	1 (U9) DIODE
U8	40	1 (U8) DIODE
U7	15	1 (U7) DIODE
U6	39	1 (U6) DIODE
U5	14	1 (U5) DIODE
U4	38	1 (U4) DIODE
U3	13	1 (U3) DIODE
U2	37	1 (U2) DIODE
U1	12	1 (U1) DIODE
U0	36	1 (U0) DIODE
S	11	S 79
SA	35	SA79
S	10	S 78
SA	34	SA78
S	9	S 77
SA	33	SA77
S	8	S 76
SA	32	SA76
S	7	S 75
SA	31	SA75
S	6	S 74
SA	30	SA74
S	5	S 73
SA	29	SA73
S	4	S 72
SA	28	SA72
S	3	S 71
SA	27	SA71
S	2	S 70
SA	26	SA70

(A) T.S

[3]

TO LINE, LINK, & MARKER CKT (SEE SD-66920-01 CAD 7)

DRAWING ISSUE

PWD	1	GAP SAK KFJ
	2 D	ROZ SAK GFH

HW

2

INWARD RESTRICTION CIRCUIT (2)

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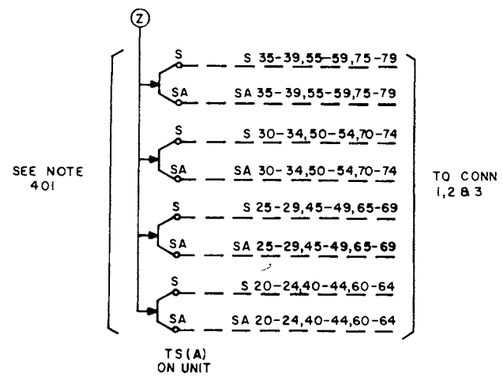
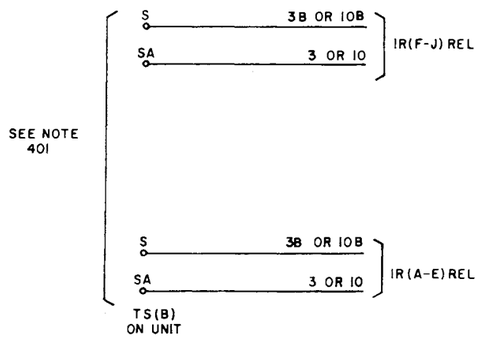
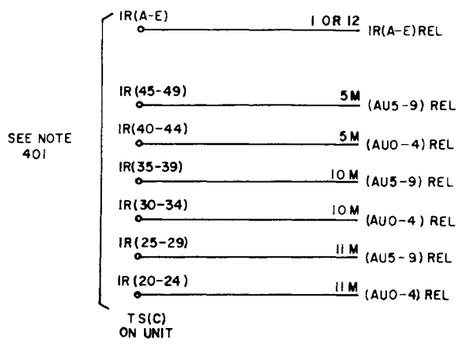
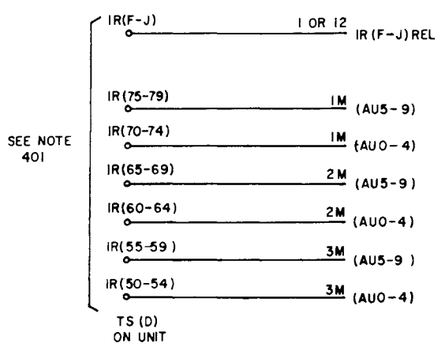
PART OF CAD 1
(FOR APP FIG. 1)









DRAWING ISSUE

1	WBM SAK KFJ
2D	RDZ SAK GFH

2

INWARD RESTRICTION CIRCUIT (2)

SD-5E003-01-6

BELL TELEPHONE LABORATORIES INCORPORATED

DWG SIZE 6S

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SHEET INDEX

CONTENTS	SHEET NO.	ISSUE NO. 1	2	3	4	5	6	SHEET NO.
SHEET INDEX	A1	1	2	3	4	5	6	A1
APPARATUS INDEX LEAD INDEX OPTION INDEX	A2	1	1	3	4	5	6	A2
FS 1 - STATION MESSAGE REGISTER PULSE CKT FS 2 - STATION MESSAGE SURCHARGE CKT	B1	1	1	3	4	5	5	B1
FS 3 - +48V POWER SUPPLY KS-15620 RECTIFIER FS 4 - NO VOLTAGE ALARM FS 5 - FUSE ALARM FS 6 - IMPULSE CIRCUIT FS 7 - RELEASE MONITOR ALARM	B2	1	2	3	3	3	6	B2
FS 8 - MARKER CONTROLLER CIRCUIT	B3			3	4	4	4	B3
APPARATUS FIGS 1,2,3&4	C1	1	1	3	4	4	6	C1
CIRCUIT NOTES EQUIPMENT NOTES INFORMATION NOTES	D1	1	1	1	4	5	5	D1
SC 1 - OPERATION OF STATION MESSAGE REGISTER PULSE CKT (X OPTION) SC 2 - OPERATION WITH M LEAD SINGLE LONG PULSE CUT-OFF CKT (Z OPTION) SC 3 - OPERATION WITH HOLD CKT FOR SINGLE POST-CALL M LEAD PULSE (Y, X OPTIONS)	E1	1	1	3	4	4	4	E1
SC 4 - SURCHARGE SC 5 - REGISTRATION PULSE APPLIED - MARKER IN CAMP-ON CALL TERMINATION	E2	1	1	1	4	4	4	E2
CIRCUIT REQUIREMENTS	F1	1	1	3	3	3	3	F1
CAD 1 & 2	G1	1	1	3	4	5	5	G1
PART OF CAD 3	G2	1	1	3	4	5	6	G2
PART OF CAD 3	G3	1	1	3	4	4	4	G3
CAD 4	G4	1	1	1	1	5	5	G4

SUPPORTING INFORMATION

CATEGORY	NO.
EQUIPMENT DRAWINGS	J58829AP
CABLING DRAWINGS	SD-66920-01

SHEET INDEX NOTES

1. WHEN CHANGES ARE MADE IN THIS DRAWING, ONLY THOSE SHEETS AFFECTED WILL BE REISSUED.
2. 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.
3. THE ISSUE NUMBER ASSIGNED TO A CHANGED OR NEW SHEET WILL BE THE SAME ISSUE NUMBER AS THAT OF THE SHEET INDEX.
4. SHEETS THAT ARE NOT CHANGED WILL RETAIN THEIR EXISTING ISSUE NUMBER.
5. THE LAST ISSUE NUMBER OF THE SHEET INDEX IS RECOGNIZED AS THE LATEST ISSUE NUMBER OF THE DRAWING AS A WHOLE.

DWG ISSUE	CD ISSUE	DATE ISSUED	DRAWN	APPD
1	1	8/22/66	EWE SAK EWS	HED LAH GFH
2D	ID APP ID	4-3-67	CED PJS RHO	HED LAH RHP
3D	ID APP 2D	11-13-67	ROZ PJS RCL	HEDB LAH RHP
4D	2D	11-13-67	ROZ PJS RCL	JJM LAH RHP
5B	2D APP IB	8-28-68	PMC PJS RCL	JJM LAH LDJ
6A	2D APP 2A	1-15-69	WR PJS RHO	JJM RVL LDJ

HW

6

SD- 5E021-01 WJ07

PBX SYSTEMS
NO. 756A
STATION MESSAGE REGISTER
PULSE AND SURCHARGE CIRCUIT
(STA MR PULS & SUR CKT)

AT&TCO
STANDARD

SD-5E021-01-AI
14 SHEETS

BELL TELEPHONE LABORATORIES
INCORPORATED

DWG SIZE 6S

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APPARATUS INDEX

DESIG	LOCATION FS	APP FIG	EQPT
RELAYS			
ALM		4	
COD		3	
DS	1G7	2	
H	3C0	3	
IMP	2C1	4	
MR	2B7	3	
MS	1F9	2	
NV	1B4	3	
P	1E2	1	
SX	1B2	1	

CAPACITORS			
ALM	2E0	4	

CONNECTORS			
J1	2D4	4	

DESIG	LOCATION FS	APP FIG	EQPT
DIODES			
ALM	2G1	4	
DS	1F6	2	
HG	3D9	3	
LP	1D1	1	
PP	1F6	2	
SI	1D6	2	
SX	1C2	1	
TR	1D1	1	

FUSE			
MR	2A6	3	

LAMP			
MR	1C2	1	
MR	2B7	3	
NV	2B4	3	
RA	2G1	4	

NETWORKS			
DS	1E6	2	
MS	1E9	2	
P	1E2	1	
SC	1D8	2	
SX	1B2	1	
IMP	2D1	4	

POWER SUPPLY			
+48V	2B2	3	

RELAY TIME DELAY			
ALM	2F2	4	

DESIG	LOCATION FS	APP FIG	EQPT
RESISTORS			
ALM	2F0	4	
MS	1F8	2	
TR	1D0	1	

SELECTOR			
SC	1A7 1A8	2	

THERMISTOR			
LP	1D2	1	
PP	1D3	1	

LEAD INDEX

DESIG	FS LOC	CAD LOC
ALARM, TRANSFER & TEST CKT		
EXT	2B6	

BUSY VERIFICATION AUX TRK CIRCUIT		
BVS	3G8	

INTERRUPTER CKT 756A PBX		
FFI	2C0	

LINE, LINK AND MARKER		
COD	3B1	
MR1	3C8	
MR2	3D8	
MR3	3E8	
MR4	3F8	
MR5	3B8	
MR6	3C8	
MR7	3E1	
MR8	3E1	
MR9	3D1	
MR10	3C1	
MR11	3G1	
MR12	3F1	
MR13	3B1	
MR14	3C1	
RSA	3E8	
RSB	3D8	

DESIG	FS LOC	CAD LOC
MESSAGE REGISTER CONTACT CO. END OF PBX TRK		
M	1B0	

MESSAGE REGISTER CKT		
M OR D	1C0	

TWO WAY CENTRAL OFFICE TRUNK CKT		
H	1G4	
R1	1G4	
R2	1G4	
S1	1F2	
SR	1F3	
SS1	1F3	
SS2	1F4	

OPTION INDEX

APP OR WRG	LOCATION
Z	1B1, 1C3, 1C1, APP FIG.
Y	1D3, 1E1, 1F3, APP FIG.
X	1B1
W	1F3
V	1G5, 1H4, 1C1
T	3B9, 3C9, 3E9, 3F9
S	3B9, 3C9, 3E9, 3F8
R	1B2, 1C2
Q	CAD1
N	CAD3
M	CAD 3
K	1F4
J	1C1, 1F3, 1G5, 1H4

DRAWING ISSUE		
1	EWE SAK GFH	HW
3D	ROZ PJS RHP	
4D	ROZ PJS RHP	
5B	PMC PJS LDJ	
6A	WR PJS LDJ	

6

STATION MESSAGE REGISTER
PULSE AND SURCHARGE CIRCUIT

SD-5E021-01-A2

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FS 1
STATION MESSAGE REGISTER PULSE CKT

②FS 2
STATION MESSAGE REGISTER SURCHARGE CIRCUIT

DRAWING ISSUE		
1	EWE SMK GFH	HW
3D	ROZ PJS RHP	
4D	ROZ PJS RHP	
5B	PMC PJS LDJ	

-40 TO -56
MESSAGE REGISTER CONTACT C.O. END OF PBX TRK
TRK
MESSAGE REGISTER CKT
M
M OR D
SX
P
MR
TR 250
LP
PP
MULT TO ALL OTHER PULSE CIRCUITS
COD 3AO
TWO WAY CENTRAL OFFICE TRUNK CKT
LINE LINK & MARKER CKT
LHM
XBR SW CP
MESSAGE REGISTER CKT
LINE
SC SEL ARC 1
SC SEL ARC 2
STRAP AS REQD SEE NOTE 105
MS
DS
SC ON
SC
PP
MULT TO ALL OTHER SURCHARGE CKTS

STATION MESSAGE REGISTER PULSE AND SURCHARGE CIRCUIT

BELL TELEPHONE LABORATORIES INCORPORATED

SD-5E021-01-BI

SD-5E021-01-BI

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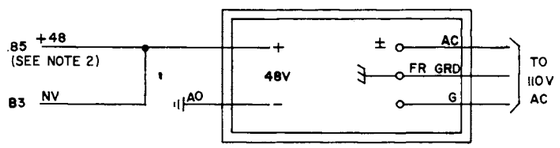
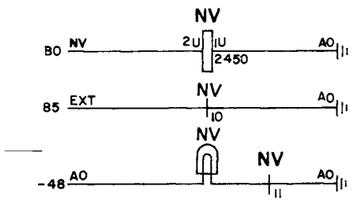
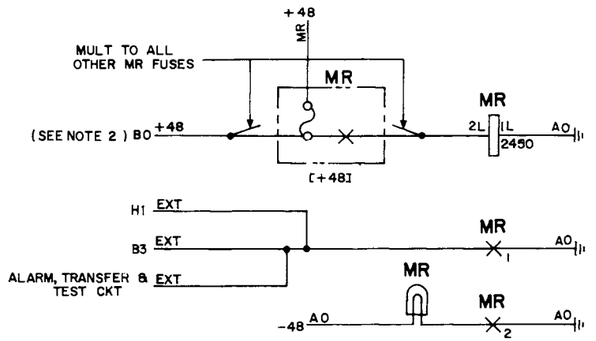
③FS 3
+48V POWER SUPPLY
KS-15620 RECTIFIER



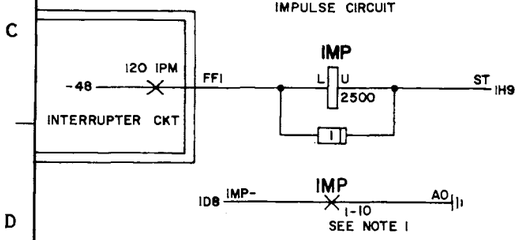
FS 4
NO VOLTAGE ALARM



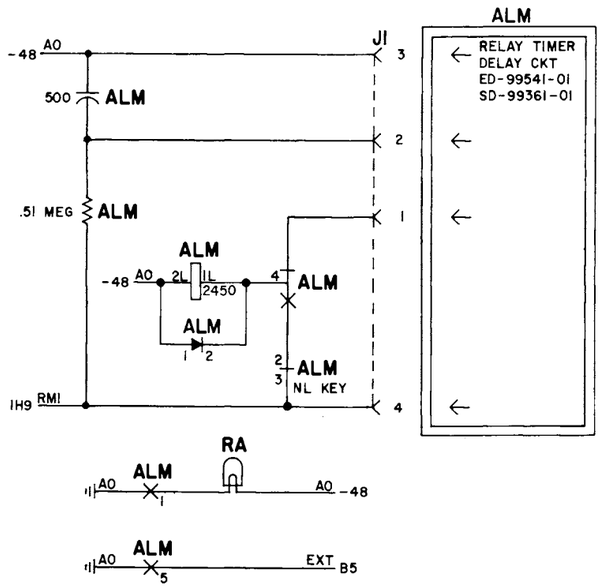
FS 5
FUSE ALARM



FS 6
IMPULSE CIRCUIT



FS 7
RELEASE MONITOR ALARM



NOTES:

1. IMP RELAY CONTACT 1M CONNECT TO FIRST SURCHARGE CIRCUIT FS 2, CONTACT 2M TO SECOND SURCHARGE CIRCUIT FS2, ETC.
2. NO. 14 GAUGE SOLID WIRE, KS-13385 L1 SHALL BE USED FOR THE +48V LEAD BETWEEN THE POWER SUPPLY AND THE +48V FUSES.

DRAWING ISSUE		
1	EWE SRK GFH	HW
2D	CED RHP	
3D	ROZ PJS RHP	
6A	WR PJS LDJ	

6

STATION MESSAGE REGISTER
PULSE AND SURCHARGE
CIRCUIT

SD-5E021-01-B2

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③FS 8
MARKER CONTROLLER CIRCUIT

DRAWING ISSUE
3D ROZ RHP HW
4D ROZ RHP

③COD IEI COD L U 700 AO
COD COD 1 -48
COTA COTB
LEAA COTB HMKB
COD MR13 10 COTB HMKB
③ H IL IUP-700 2L 2US-700
MR14 LEAA CON(B,BA) CONBA LEBA LEAA CONB LEBA
MR10
MR9 4 COD COTB HMKB -48
LEBA COTB HMKB -48
LEBA COTA HMKA -48
COD MR7 2 COTA HMKA -48
MR8 LEBA CON(A,AA) CONAA LEAA LEBA CONA LEAA
MR12
LEAA COTA HMKA COTA HMKA
MR11 8 COD

-48 CONA LTCA CONA
DCKB DCKB ACB ACA MR5 T S H 6 AO
-48 CONB LTCB CONB
DCKA DCKA ACA ACB MR6 T S H 8 AO
COA MO COB MR1 H 1 HG 2 1 AO
ME COA COB MR2 H 2
TO CO TRK RSE TKAO TKA9 TKA8 RSB H 11 AO
RSO TKO TK9 TK8 RSA H 12 AO
BYO RPAO BTCA BYA MR3 T S H 3 AO
RPAO BTCB BYB MR4 T S H 4 AO
COD 6 AO
LALI -48 CONAA CONBA CONA CONB
XCAL -48 XC COA
COAL -48 LT-

BUSY VERIFICATION AUX TRK CKT
-48 ST MC BVS H 10 AO

LINE, LINK AND MARKER CKT

4

STATION MESSAGE REGISTER
PULSE AND SURCHARGE CIRCUIT
(2)
SD-5E021-01-B3

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SD-5E021-01-B3

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APP FIG. 1

RELAY

DESIG										P AG24 Z,Y						SX AF73						DESIG
CODE																						CODE
OPTION																						OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12																							12
11																							11
10											M	1C2					EBM	1C2					10
9																							9
8											BM	1B1					EBM	1E3					8
7																							7
6											BM	1D3					EBM	1C1					6
5																							5
4						1					M	1F3					EBM	1F4					4
3																							3
2																							2
1																							1
COIL												1E2						1B2					COIL

DIODE

DESIG	LOC	CODE
ⓩ LP	1D1	446F
SX	1C2	446F
TR	1D1	446F

LAMP

DESIG	LOC	CODE
MR	1C2	13J (RES)

NETWORK

DESIG	LOC	CODE
P	1E2	185A
SX	1B2	185A

RESISTOR

DESIG	LOC	CODE
TR	1DO	18AM

THERMISTOR

DESIG	LOC	CODE
ⓩ LP	1D2	1C
ⓨ PP	1E3	1D

APP FIG. 2

RELAY

DESIG							DS AF84						MS AF140										DESIG
CODE																							CODE
OPTION																							OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12							EM	1D8					EM	1F7									12
11													BM	1B6									11
10							M	1G9					M	1F9									10
9							B	1C6															9
8							EBM	1G6					M	1D8									8
7							B	1E7															7
6							B	1G6															6
5							BM	1D9															5
4							M	1G9															4
3																							3
2													M	1G8									2
1							M	1G8															1
COIL								1G7						1F9									COIL

DIODE

DESIG	LOC	CODE
DS	1F6	446F
PP	1F6	446F
S1	1E6	446F

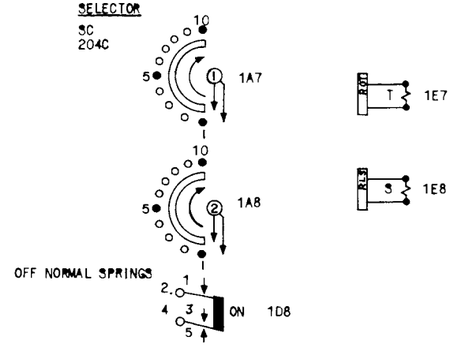
NETWORK

DESIG	LOC	CODE
DS	1G7	185A
MS	1F9	185A
SC	1E8	177K

RESISTOR

DESIG	LOC	CODE
MS	1F8	198M

SELECTOR
SC
204C



APP FIG. 3

RELAY

DESIG	COD		H			MR	NV										DESIG
CODE	AF20		AJ72			AK4											CODE
OPTION																	OPTION
	CONT ARR	LOC	CONT ARR	LOC		CONT ARR	LOC	CONT ARR	LOC								
12	EBM	3E1	BM	3E8		M											12
11	M		BM	3D9		EBM	2B4										11
10	EBM	3E1	BM	3G9		EBM	2B4										10
9			BM			EMB											9
8	P		BM	3C9		EMB											8
7			BM														7
6			BM														6
5	EMB	3F9	BM	3B9		EMB											5
4	EBM	3D1	BM	3F9		EMB											4
3			BM	3E9		EBM											3
2	EBM	3E1	BM	3D9		EBM	2B7										2
1	M	3B1	BM	3C9		M	2B7										1
COIL		3A1		3C0			2B7		2B4								COIL

DIODE

DESIG	LOC	CODE
HG	3D9	446F

FUSE

DESIG	LOC	CODE
[10] MR	2A6	70A

LAMP

DESIG	LOC	CODE
MR	2B7	2Y, RED
NV	2B4	2Y, RED

POWER SUPPLY

DESIG	LOC	CODE
+48V	2BI	KS-15620 LIST 15

APP FIG. 4

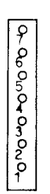
RELAY

DESIG					ALM AK4				IMP AF83												DESIG
CODE																					CODE
OPTION																					OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12							M		M												12
11							BM		M												11
10							EBM		M	2D1											10
9							EMB		M	2D1											9
8							EMB		M	2D1											8
7									M	2D1											7
6									M	2D1											6
5					EMB	2HO			M	2D1											5
4					EMB	2F1			M	2D1											4
3					EBM				M	2D1											3
2					EBM				M	2D1											2
1					M	2GO			M	2D1											1
COIL						2FI				2C1											COIL

CAPACITOR

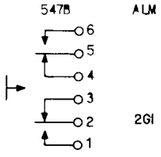
DESIG	LOC	CODE
ALM	2EO	KS-14136

CONNECTOR



DESIG	J1
CODE	910A
OPTION	
TERM	LOC
7	
6	
5	
4	2G2
3	2E2
2	2F2
1	2F2

KEY
547B ALM



DIODE

DESIG	LOC	CODE
ALM	2G1	458A

LAMP

DESIG	LOC	CODE
RA	2GI	2Y-WHITE

NET WORK

DESIG	LOC	CODE
IMP	2DI	185A

RELAY TIME DELAY

DESIG	LOC	CODE
ALM	2F2	ED-99541-01

RESISTOR

DESIG	LOC	CODE
ALM	2FO	KS-13491, L4.51 MEG

DRAWING ISSUE

1	EWE SAK GFH HW
3D	ROZ PJS RHP
4D	ROZ PJS RHP
6A	WR PJS LDJ

6

STATION MESSAGE REGISTER
PULSE AND SURCHARGE CIRCUIT

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CIRCUIT NOTES

101.

DESIG	FUSE AMP	POTENTIAL	ONE PER	TERM DESIG
A-0	1-1/3	-48V	APP FIG. 1,2,3 & 4	
A-1/9	1-1/3	-48V	APP FIG 1 & 2	
MR	1-1/3	+48V	APP FIG. 1 & 2	
A-0		GRD	APP FIG 1,2,3 & 4	
A-1/9		GRD	APP FIG 1 & 2	

BATTERY SYMBOL	VOLTAGE RANGE
-48V	45-52V
+48V	45-52.6V

102.

FEATURE OR OPTION			PROVIDE APP FIG	PROVIDE APP OR WRG	QUANTITY
PBX ARRANGED FOR MESSAGE REGISTRATION (SEE NOTE 204)	WITHOUT SURCHARGE: COMMON APPARATUS	+48V BAT (SYSTEM BATTERYLESS OPR)	3		ONE PER PBX
		NO VOLTAGE ALARM			
		FUSE ALARM			
	WITH SURCHARGE: COMMON APPARATUS (SEE NOTES 201 & 205)	+48V BAT (SYSTEM BATTERYLESS OPR)	3,4		
		NO VOLTAGE ALARM			
		FUSE ALARM			
		IMPULSE RELAY CKT			
		REL MONITOR ALARM			
	TRUNK ARRANGEMENTS FOR MESSAGE REGISTRATION	STA MESSAGE REGISTER ARR FOR SINGLE OR MULTIPLE PULSE DURING CALL: NO SURCHARGE	1	X	ONE PER 2-WAY C.O. TRK
		STA MESSAGE REGISTER ARR FOR SINGLE OR MULTIPLE PULSE DURING CALL: SURCHARGE (SEE NOTES 201 & 205)	1,2	X	
		STA MESSAGE REGISTER ARR TO CUT-OFF M LEAD SINGLE LONG PULSE: NO SURCHARGE	1	Z	
		STA MESSAGE REGISTER ARR TO CUT-OFF M LEAD SINGLE LONG PULSE: SURCHARGE (SEE NOTES 201 & 205)	1,2	Z	
		STA MESSAGE REGISTER ARR TO HOLD FOR SGL POST CALL M LEAD PULSE: NO SURCHARGE	1	X,Y	
		STA MESSAGE REGISTER ARR TO HOLD FOR SGL POST CALL M LEAD PULSE: SURCHARGE (SEE NOTES 201 & 205)	1,2	X,Y	

103.

NETWORK VALUES		
NETWORK NUMBER	RESISTANCE IN OHMS	CAPACITANCE IN UF
1	470	.11
2	100	.5

104.

RECORD OF APP FIGURE, 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	
4D	S	T	106	S	T		
	R	NONE		Q		R	
	N	M		N		M	
5B	K	NONE	204	K			
	J	V,W	205	J		V,W	

105.

STRAPPING AT TS FOR SURCHARGE	
SURCHARGE	STRAP AT TS
6	NONE
5	36 TO 26
4	36 TO 16
3	36 TO 45
2	36 TO 35
1	36 TO 25
0	36 TO 15

106. IF THE LINE, LINK AND MARKER CIRCUIT IS EQUIPPED WITH OPTION XK, OPTION T MUST BE PROVIDED. IF THE MARKER CIRCUIT IS EQUIPPED WITH OPTION WV, OPTION S MUST BE PROVIDED.

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.

EQUIPMENT NOTES

201. SURCHARGE FEATURE PROVIDED BY CONNECTION TO APPLIQUE UNIT.

202. LEADS ARE PROVIDED ONLY WHEN APP. FIG. 4 IS PROVIDED.

203. THE REQUIRED LENGTH OF A25C CONNECTOR CABLE SHALL BE ORDERED SEPARATELY.

204. INSTALLER SHALL REMOVE K OPTION ONLY FOR THOSE C.O. TRUNKS REQUIRING MESSAGE REGISTRATION.

205. INSTALLER SHALL REMOVE J OPTION ONLY FOR THOSE C.O. TRUNKS REQUIRING SURCHARGE REGISTRATION.

DRAWING ISSUE	
1	EWC SMK GFH
4D	ROZ PJS RHP
5B	PMC PJS LDJ

5

STATION MESSAGE REGISTER PULSE AND SURCHARGE CIRCUIT (2)

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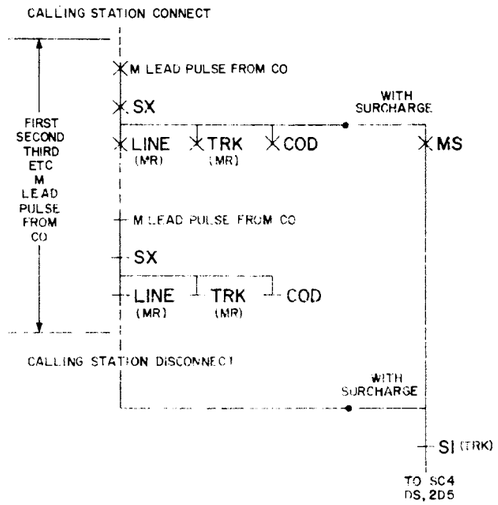
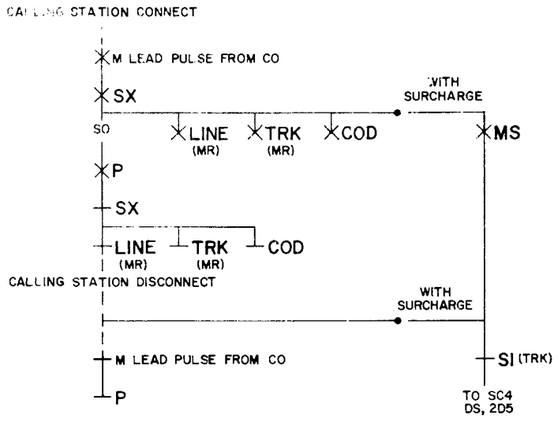
SC 1

OPERATION OF STATION MESSAGE REGISTER PULSE CKT SEE NOTE 1



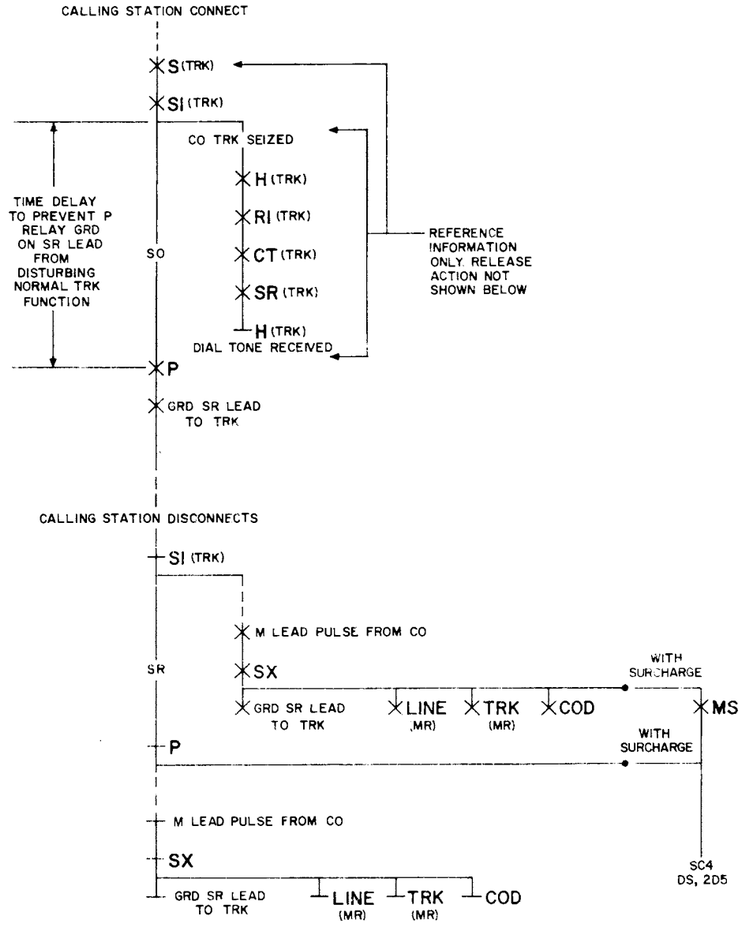
SC 2

OPERATION WITH M LEAD SINGLE LONG PULSE CUT-OFF CKT SEE NOTE 1



SC 3

OPERATION WITH HOLD CKT FOR SINGLE POST-CALL M LEAD PULSE SEE NOTE 1



SHEET NOTES:

1. SC1, 2, AND 3 ASSUMES [illegible] THE LINE, LINK AND MARKER CIRCUIT IS NOT IN [illegible] COMPLETING A CAMP-ON CALL TERMINATION.

DRAWING ISSUE

1	EMC, SMP, CF-H, HV
2D	ROZ, DS, RHP, ROZ, RHP

4

STATION MESSAGE REGISTER PULSE AND SURCHARGE CIRCUIT

(2)

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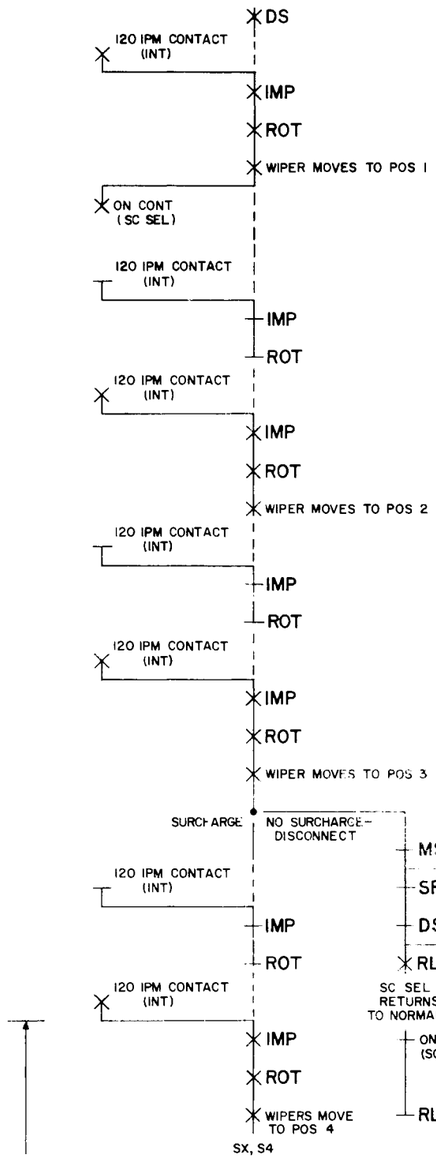
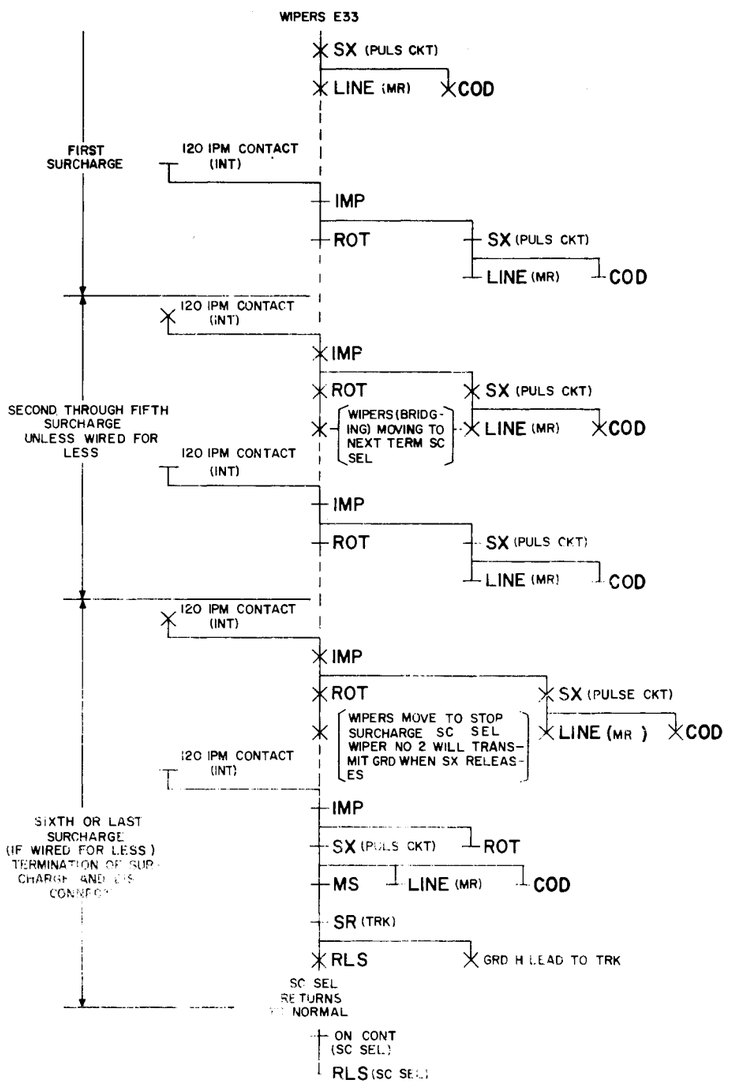
DRAWING ISSUE
1
4D

SC 4

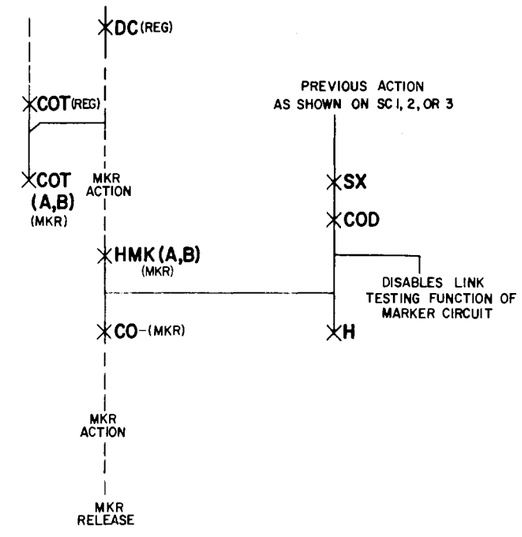
SURCHARGE
SEE NOTE 1
FROM SC1 S1, 1H 16
FROM SC2 S1, 1H 33
FROM SC3 MS, 1X 26





SC 5

REGISTRATION PULSE APPLIED-MARKER
IN CAMP-ON CALL TERMINATION
SEE NOTE 2



SHEET NOTE:
1. SC4 ASSUMES THAT THE LINE, LINK AND MARKER CIRCUIT IS NOT IN THE PROCESS OF COMPLETING A CAMP-ON CALL TERMINATION.
2. SC5 ASSUMES THAT RELAY COD OPERATES PRIOR TO THE OPERATION OF MARKER RELAYS HMKA,B.

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4

STATION MESSAGE REGISTER
PULSE AND SURCHARGE
CIRCUIT
2
SD-5E021-01-E2
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CIRCUIT REQUIREMENTS

APPARATUS DESIG	APPARATUS CODE	APPARATUS OPT	APPARATUS FIG.	MECH REQT BSP FIG.	MECH REQT CONT PRES	MECH REQT ARM. TRVL	CIRCUIT PREPARATION BLOCK OR INSULATE	CIRCUIT PREPARATION TEST CLIP DATA CONN BAT.	CIRCUIT PREPARATION TEST CLIP DATA CONN GRD	TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT TEST WDG	TEST FOR	AFTER SOAK MA	TEST MA	READJ MA	REMARKS
RELAYS																	
ALM	1/2AK4		4	202			4(ALM)		1L(ALM)	G			0		11.9	11.3	MOUNTED WITH (SPARE)
COD	AF20		3	205				L(COD)		B			0		35.5	34	
DS	AF84		2	236			1(DS)	1U(DS)	1U(DS)	B/G			0		5.7	5.4	
H	AJ72		3	64				1U(H)	1L(H)	B/G			0		33.6	32	
								2U(H)	2L(H)	B/G			0		35.2	33.5	
IMP	AF83		4	8				L(IMP)	U(IMP)	B/G	1		0		8.2	7.8	
MR	V2 AK 4		3	202			1M(MR)	2L(MR)		B	5		0		11.9	11.3	MOUNTED WITH (NV)
MS	AF140		2				1(MS)		1U(MS)	G			0		9.0	8.6	
NV	1/2AK4		3	202			10B(NV)		L(NV)	G	3		0		11.9	11.3	MOUNTED WITH (MR)
P	AG24	Y	1	188					U(P)	G	4		0	F.S.	13.7	13.0	
													H		1.6	1.5	
													R		0.7	1.0	
P	AG24	Z	1	188			8M(P)	L(P)	U(P)	B/G			0	F.S.	13.7	13.0	
													H		1.6	1.5	
													R		0.7	1.0	

CIRCUIT REQUIREMENTS

APPARATUS DESIG	APPARATUS CODE	APPARATUS OPT	APPARATUS FIG.	MECH REQT BSP FIG.	MECH REQT CONT PRES	MECH REQT ARM. TRVL	CIRCUIT PREPARATION BLOCK OR INSULATE	CIRCUIT PREPARATION TEST CLIP DATA CONN BAT.	CIRCUIT PREPARATION TEST CLIP DATA CONN GRD	TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT TEST WDG	TEST FOR	AFTER SOAK MA	TEST MA	READJ MA	REMARKS
SX	AF 73		1	203				1L(SX)	1U (SX)	B/G		P	0		15.5		
									2U (SX)	G		S	0		16.5	15.5	
SEL																	
SC	204C		2						B(SC)	G	2	ROT	0			300	
									RM1(SC)	G	2	RLS	0			150	

TEST NOTES

1. OPEN FFI LEAD AT U WDG OF IMP RELAY.
2. ADJUST PER BSP A468.003.
3. OPEN GRD LEAD 1U (NV) RELAY.
4. OPEN LEAD 81 AT T.S.
5. REMOVE ALL MR- FUSES.

DRAWING ISSUE

1	EWE SMK GFH
3D	RCZ RJS RHP

HW

3

STATION MESSAGE REGISTER
PULSE AND SURCHARGE CIRCUIT (2)

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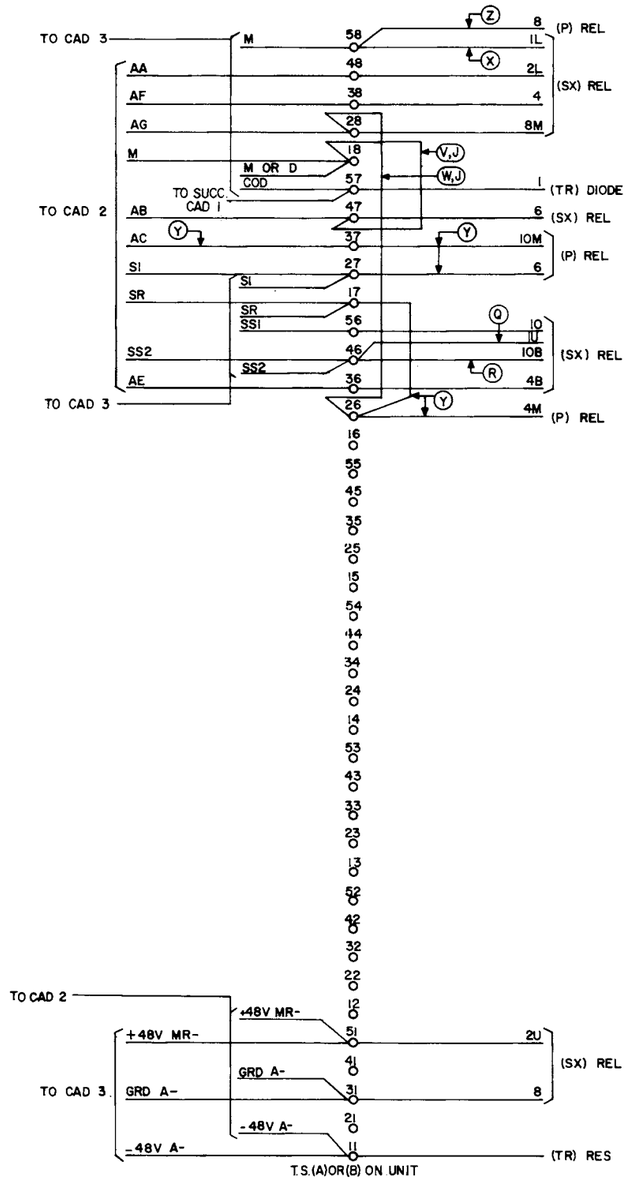
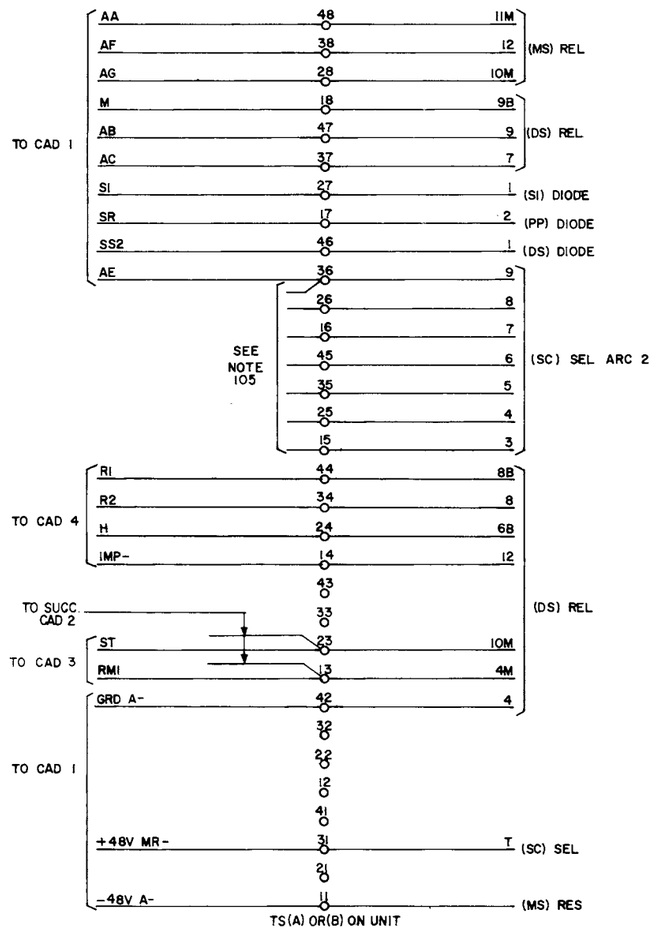
CAD 1

(FOR APP FIG. 1)
(SEE NOTE 205)



CAD 2

(FOR APP FIG. 2)



DRAWING ISSUE		
1	EMF SMK GPH	HW
3D	ROZ PJS RHP	
4D	ROZ PJS RHP	
5B	PMC PJS LDJ	

SD-5E021-01-GI

5

STATION MESSAGE REGISTER
PULSE AND SURCHARGE
CIRCUIT (2)

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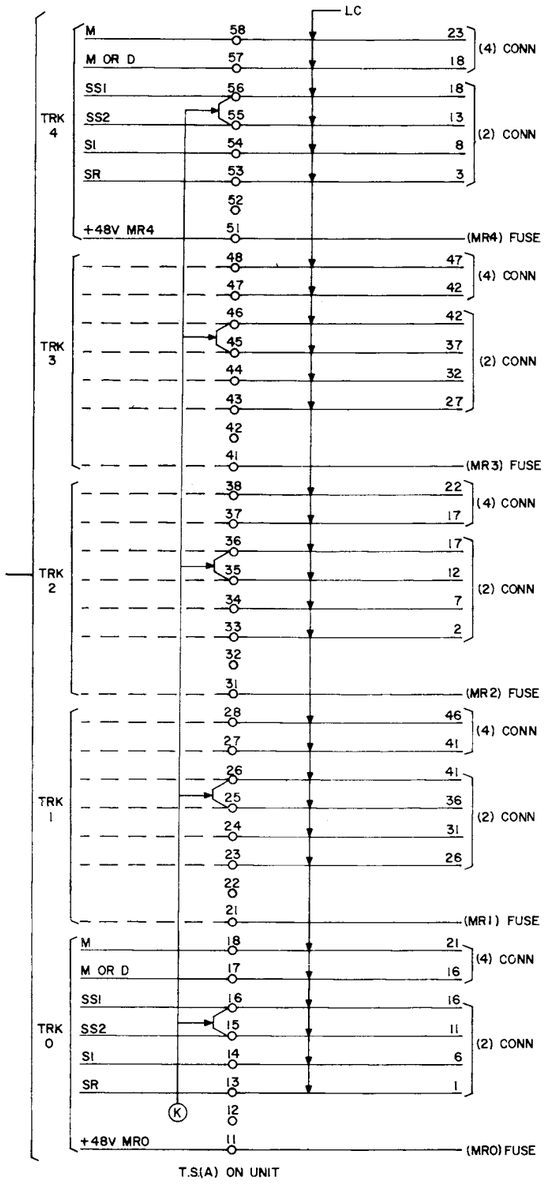
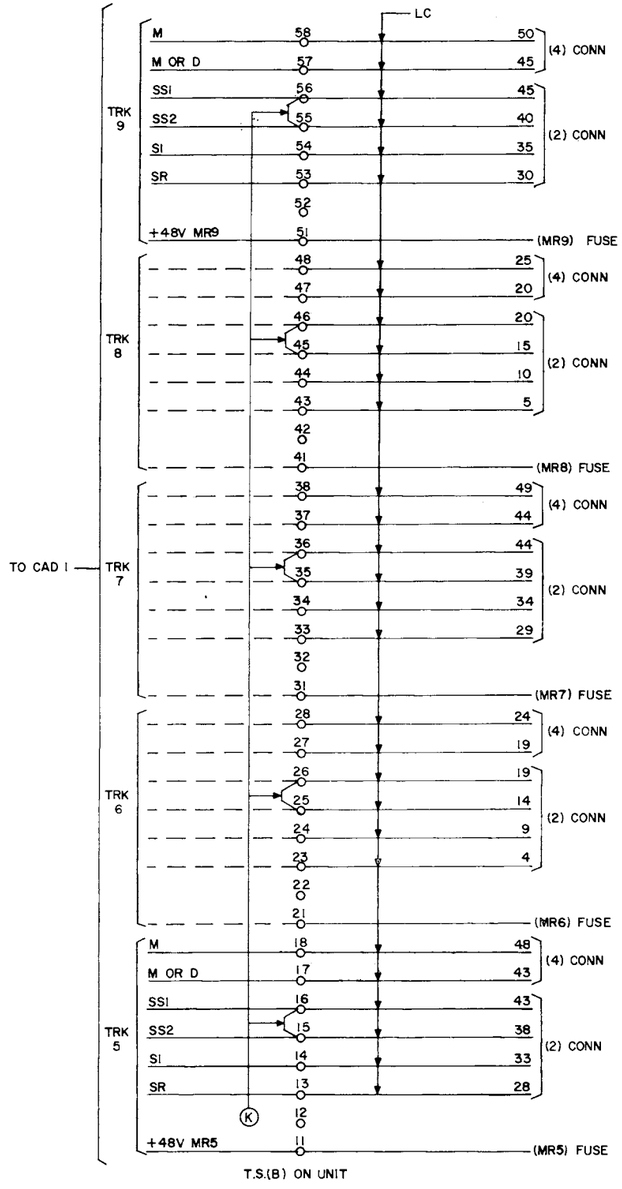
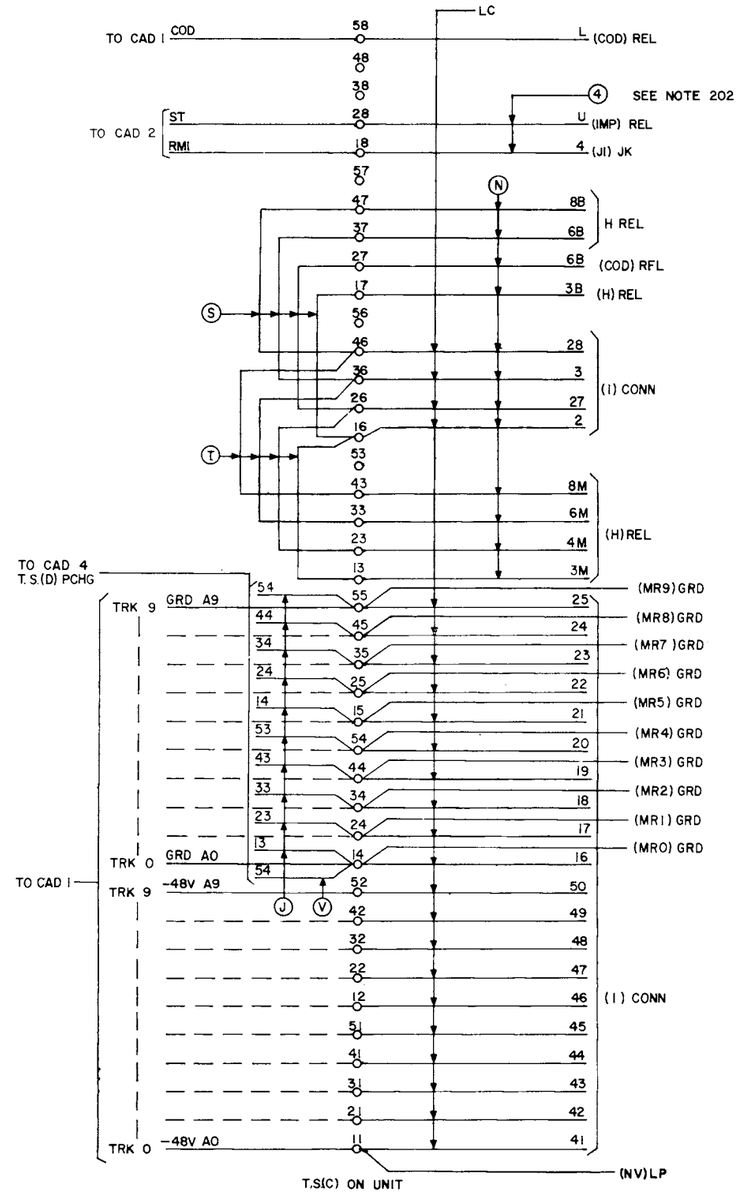
PART OF CAD 3

(FOR APP FIG. 3)
(SEE NOTE 204 AND 205)







DRAWING ISSUE		
1	EWE SAK GFH	HW
3D	ROZ RJS RHP	
4D	ROZ RJS RHP	
5B	PMC PJS LDJ	
6A	WR PJS LDJ	

6

STATION MESSAGE REGISTER PULSE AND SURCHARGE CIRCUIT	SD-5E021-01-G2
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PART OF CAD 3
(FOR APP FIG. 3)

TO PWR SUP CKT (SEE SD-66920-01 CAD 11)

-48V A9 → 50 — 52
GRD A9 → 25 — 55
-48V A8 → 49 — 42
GRD A8 → 24 — 45
-48V A7 → 48 — 32
GRD A7 → 23 — 35
-48V A6 → 47 — 22
GRD A6 → 22 — 25
-48V A5 → 46 — 12 (C) T.S.
GRD A5 → 21 — 15
-48V A4 → 45 — 51
GRD A4 → 20 — 54
-48V A3 → 44 — 41
GRD A3 → 19 — 44
-48V A2 → 43 — 31
GRD A2 → 18 — 34
-48V A1 → 42 — 21
GRD A1 → 17 — 24
-48V A0 → 41 — 11
GRD A0 → 16 — 14
→ 40
→ 15
→ 39
→ 14
→ 38
→ 13
→ 37
→ 12
→ 36
→ 11
FFI → 35 — SEE NOTE 202 — L (IMP) REL
TO ALM TR & TEST CKT (SEE SD-66920-01 CAD 11) EXT → 10 — 4M (MR) REL
COD → 34 — 1M
MR 14 → 9 — 10B
MR 13 → 33 — 10
MR 12 → 8 — 8B
MR 11 → 32 — 8
MR 10 → 7 — 48 (COD) REL
MR 9 → 31 — 4
MR 8 → 6 — 2B
MR 7 → 30 — 2
TO LINE, LINK & MARKER CKT (SEE SD-66920-01 CAD 11) RSA → 5 — 12M
RSB → 29 — 11M
BVS → 4 — 10M
MR 6 → 28 — 46 — 8M
MR 5 → 3 — 36 — 6M (H) REL
MR 4 → 27 — 26 — 4M
MR 3 → 2 — 16 — 3M
MR 2 → 26 — 2M
MR 1 → 1 — 1M
[1]
(C) T.S.
LC
(M) (N)

TO TWO WAY CO TRK CKT (SEE SD-66920-01 CAD 11)

→ 50
→ 25
→ 49
→ 24
→ 48
→ 23
→ 47
→ 22
→ 46
→ 21
SSI → 45 — 56
SSI → 20 — 46
SSI → 44 — 36 (B) T.S.
SSI → 19 — 26
SSI → 43 — 16
SSI → 18 — 56
SSI → 42 — 46
SSI → 17 — 36 (A) T.S.
SSI → 41 — 26
SSI → 16 — 16
SS2 → 40 — 55
SS2 → 15 — 45
SS2 → 39 — 35 (B) T.S.
SS2 → 14 — 25
SS2 → 38 — 15
SS2 → 13 — 55
SS2 → 37 — 45
SS2 → 12 — 35 (A) T.S.
SS2 → 36 — 25
SS2 → 11 — 15
SI → 35 — 54
SI → 10 — 44
SI → 34 — 34 (B) T.S.
SI → 9 — 24
SI → 33 — 14
SI → 8 — 54
SI → 32 — 44
SI → 7 — 34 (A) T.S.
SI → 31 — 24
SI → 6 — 14
SR → 30 — 53
SR → 5 — 43
SR → 29 — 33 (B) T.S.
SR → 4 — 23
SR → 28 — 13
SR → 3 — 53
SR → 27 — 43
SR → 2 — 33 (A) T.S.
SR → 26 — 23
SR → 1 — 13
[2]
LC

CROSS CONN TO C.O. (SEE NOTE 203)

M → 50 — 58
M → 25 — 48
M → 49 — 38 (B) T.S.
M → 24 — 28
M → 48 — 18
M → 23 — 58
M → 47 — 48
M → 22 — 38 (A) T.S.
M → 46 — 28
M → 21 — 18

CROSS CONN TO MR CAB (SEE NOTE 203)

M OR D → 45 — 57
M OR D → 20 — 47
M OR D → 44 — 37 (B) T.S.
M OR D → 19 — 27
M OR D → 43 — 17
M OR D → 18 — 57
M OR D → 42 — 47
M OR D → 17 — 37 (A) T.S.
M OR D → 41 — 27
M OR D → 16 — 17
→ 40
→ 15
→ 39
→ 14
→ 38
→ 13
→ 37
→ 12
→ 36
→ 11
→ 35
→ 10
→ 34
→ 9
→ 33
→ 8
→ 32
→ 7
→ 31
→ 6
→ 30
→ 5
→ 29
→ 4
→ 28
→ 3
→ 27
→ 2
→ 26
→ 1
[4]
LC

DRAWING ISSUE		
1	EWE SMK GFH	HW
3D	ROZ PJS RHP	
4D	ROZ PJS RHP	

4

STATION MESSAGE REGISTER PULSE AND SURCHARGE CIRCUIT (2)

SD-5E021-01-G3

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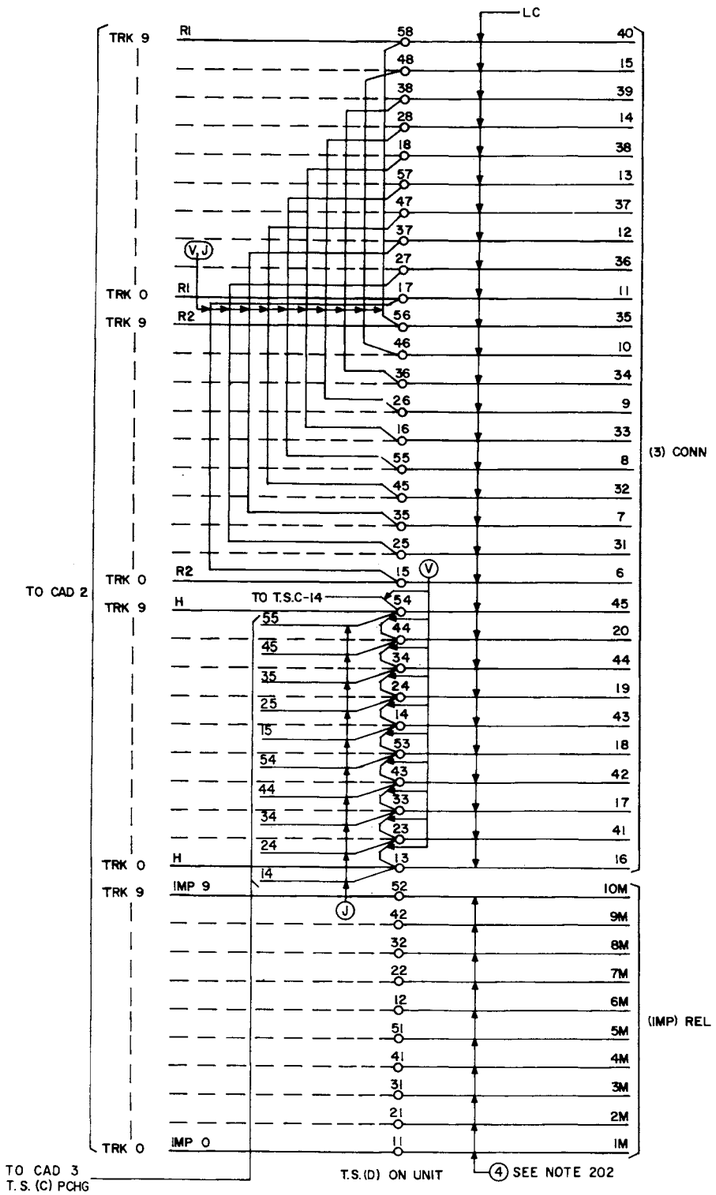
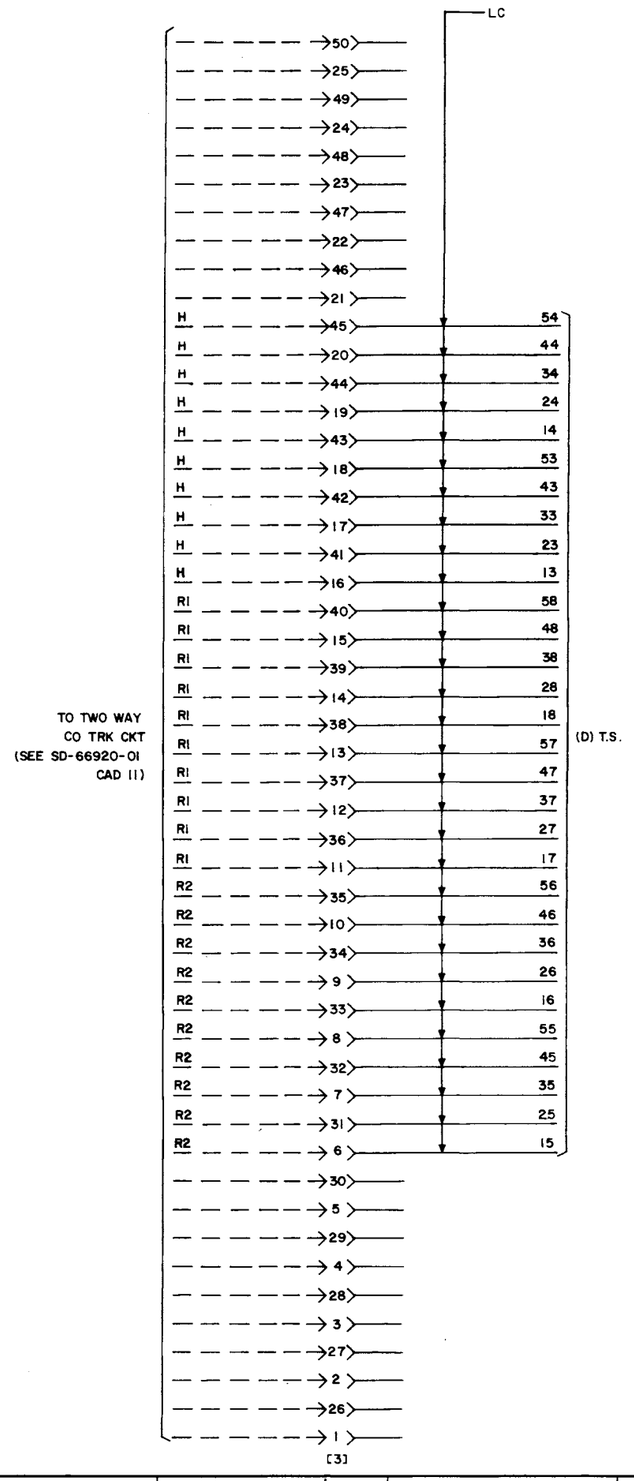
CAD 4
(SEE NOTE 205)





DRAWING ISSUE

1	BME 5AK 3FH	HW
5B	PMC PJS LDJ	

STATION MESSAGE REGISTER
PULSE AND SURCHARGE
CIRCUIT

SD-5E021-01-G4

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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	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	SHEET NO.
SHEET INDEX SUPPORTING INFORMATION	A1	1	2	3	4																																																A1
APPARATUS INDEX LEAD INDEX OPTION INDEX	A2	1	2	2	4																																															A2
FS 1 POWER KEYS AND LAMPS FS 2 STATION DIAL TRANSFER TRUNKS FS 3 BUSY TONE TRUNK	B1	1	2	3	4																																													B1
FS 4 LINKS FS 5 UNIVERSAL LINES ASSIGNED TO TWO-WAY TIE TRUNKS FS 6 ATTENDANT TRUNKS	B2	1	2	3	3																																													B2
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APP FIG 1	C1	1	2	3	4																																													C1
CIRCUIT NOTES	D1	1	1	3	3																																													D1
SC 1 STATION DIAL TRANSFER TRUNK MADE BUSY SC 2 C.O. TRUNK MADE BUSY SC 3 BUSY TONE TRUNK MADE BUSY SC 4 LINK MADE BUSY SC 5 UNIVERSAL LINE MADE BUSY SC 6 ATTENDANT TRUNK MADE BUSY SC 7 JUNCTOR MADE BUSY SC 8 DIAL PULSE REGISTER MADE BUSY	E1	1	1	1	4																																														E1
CAD 1(A & M ONLY)	G1	1	2	3	4																																														G1

SUPPORTING INFORMATION

CATEGORY	NO.
EQUIPMENT DRAWING	J58829AN-( )

SHEET INDEX NOTES

1. WHEN CHANGES ARE MADE IN THIS DRAWING, ONLY THOSE SHEETS AFFECTED WILL BE REISSUED.
2. 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.
3. THE ISSUE NUMBER ASSIGNED TO A CHANGED OR NEW SHEET WILL BE THE SAME ISSUE NUMBER AS THAT OF THE SHEET INDEX.
4. SHEETS THAT ARE NOT CHANGED WILL RETAIN THEIR EXISTING ISSUE NUMBER.
5. THE LAST ISSUE NUMBER OF THE SHEET INDEX IS RECOGNIZED AS THE LATEST ISSUE NUMBER OF THE DRAWING AS A WHOLE.

DWG ISSUE	CD ISSUE	DATE ISSUED	DRAWN	APPD
1	J	5-18-67	BCM PJS UT	JJM LAH RHP
2D	I APP ID	10-31-67	TEF PJS UT	JJM LAH RHP
3A	I APP2A	9/17/68	WR PJS RCL	JJM RVL LDJ
4A	I APP3A	9/19/68	WR PJS RCL	JJM RVL LDJ

HW

4

SD-5E029-01 IJ07

PBX SYSTEMS
NO. 756A
MAKE BUSY & BUSY DISPLAY CIRCUIT

(2)
(MB & BY DISPL CKT)

AT & T CO
STANDARD

SD-5E029-01-AI
9 SHEETS

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APPARATUS INDEX

DESIG	LOCATION FS	APP FIG	EQPT
DIODES			
DLT	2C5	1	

KEYS			
ATND TRKO-2	2H6	1	
BT	1E8	1	
CO TRKO-9	3H5	1	
DLTRO,1	1F4	1	
JCTRO-5	3E1	1	
LINE 80-89	2D6	1	
LINK 02-09	2B4	1	
LINK 12-19	2B4	1	
PWR	IB1,IC0	1	
REGO,1	3D7	1	

DESIG	LOCATION FS	APP FIG	EQPT
LAMPS			
ATND TRKO-2	2G9	1	
BT	1D8	1	
DLTRO,1	1F4	1	
JCTRO-5 ORIG	3C4	1	
JCTRO-5 TERM	3E2	1	
LINE 80-89	2D8	1	
LINK 02-09	2C4	1	
LINK 12-19	2C4	1	
PWR-48	1B1	1	
PWR-96	1D1	1	
REGO,1	3D6	1	
TRKO-9 BY	3H5	1	
TRKO-9 BY INC	3F2	1	

RESISTORS			
AO-2	2G9	1	
ATO-2	2G9	1	
B	1D9	1	
BT	1E8	1	
DO,1	1F4	1	
DAO,1	1G4	1	
JAO-5	3E2	1	
JBO-5	3C4	1	
JCO-5	3E2	1	
JDO-5	3C3	1	
L80-89	2D7	1	
LA80-89	2D8	1	
LO2-09	2C4	1	
LI2-19	2C4	1	
LA	2B5	1	
P	IC1	1	
RO,1	3D6	1	
TAO-9	3G2	1	
TBC-9	3H4	1	
TCO-9	3F2	1	
TDO-9	3H5	1	

LEAD INDEX

DESIG	LOCATION FS	CAD
ATT. TRUNK CKT.		
BDO-2	2F9	
TNO-2	2H7	

C.O. TRUNK CKT.		
ITO-9	3G5	
ITBO-9	3E3	
ITTO-9	3G6	

JUNCTOR CKT.		
OHMO-5	3B3	

DESIG	LOCATION FS	CAD
LINE, LINK & MARKER CKT.		
HMO7	1C8	
L3 BAT	1B1	
LB80-89	2C7	
LD80-89	2C6	
SO2-09	2B4	
S12-19	2B4	
THMO-5	3D1	

REGISTER CKT.		
MBO,1	3D7	
RHMO,1	3D6	

STA DIAL TR TRUNK CKT.		
HMO,E	1E5	
MBTO,E	1E4	

OPTION INDEX

APP OR WIRING	LOCATION

DRAWING ISSUE		
1	BCM PJS RHP	HW.
2D	TEF PJS RHP	
4A	WR PJS LDJ	

4

MAKE BUSY & BUSY DISPLAY CIRCUIT (2) SD-5E029-01-A2

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F-7420 (5-61)

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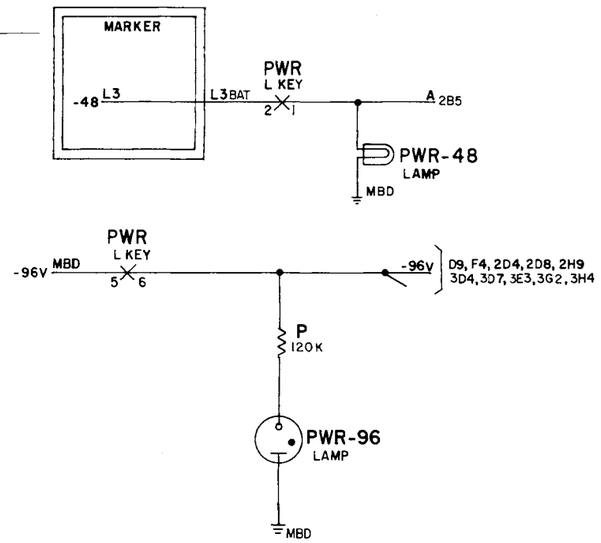
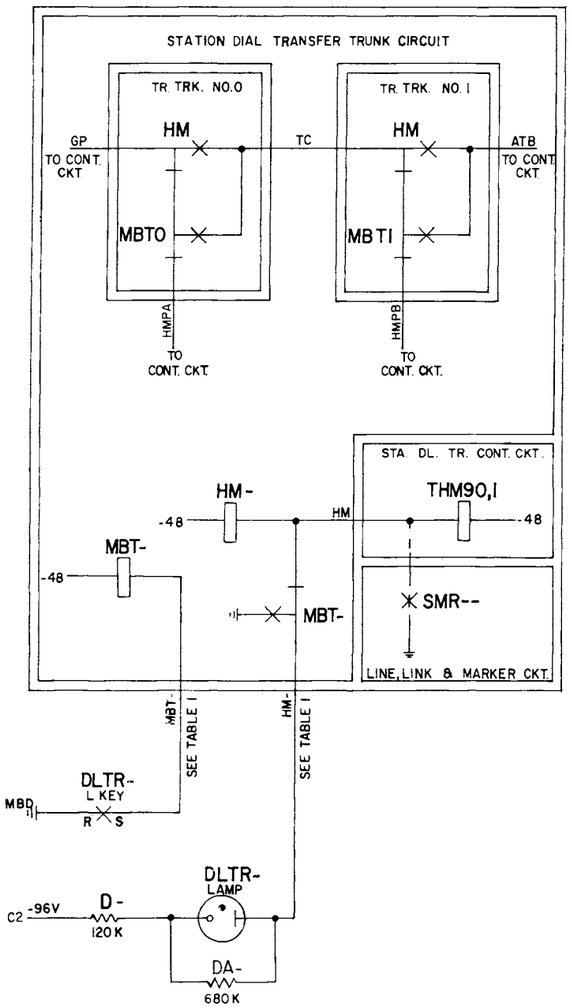
FS 1
POWER KEYS AND LAMPS



FS 2
STATION DIAL TRANSFER TRUNKS



FS 3
BUSY TONE TRUNK

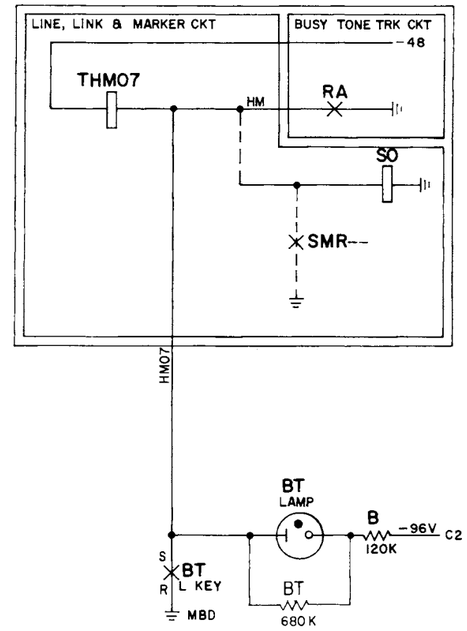


TABLE I

TRANSFER TRUNK	ASSOC. LEADS
0	HME MBTE
1	HMO MBTO

DRAWING ISSUE		
	SCM PJS RHP	HW.
2D	TEF PJS RHP	
3A	WR PJS LDJ	
4A	WR PJS LDJ	

4

MAKE BUSY & BUSY DISPLAY CIRCUIT (2)

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FS 4
LINKS

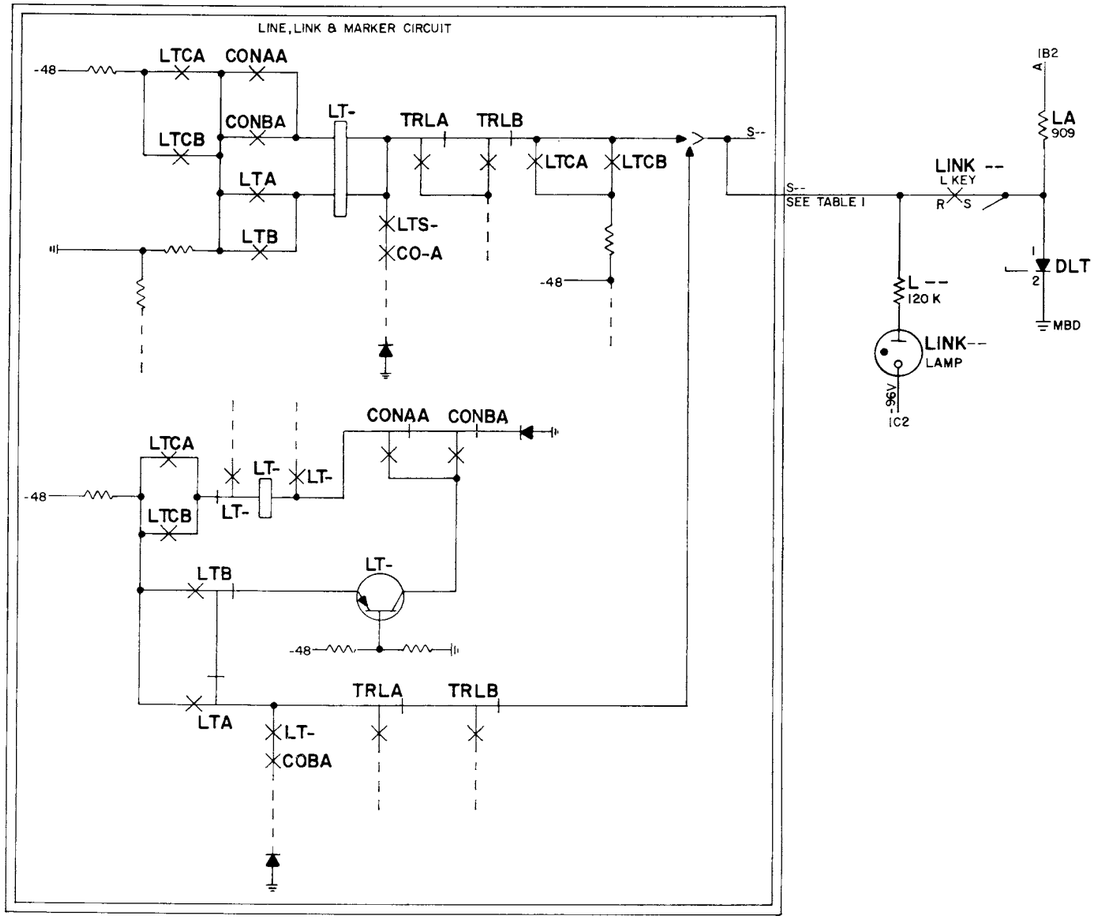


TABLE 1

LINK	ASSOC S-- LEAD
02	S02
12	S12
03	S03
13	S13
04	S04
14	S14
05	S05
15	S15
06	S06
16	S16
07	S07
17	S17
08	S08
18	S18
09	S09
19	S19

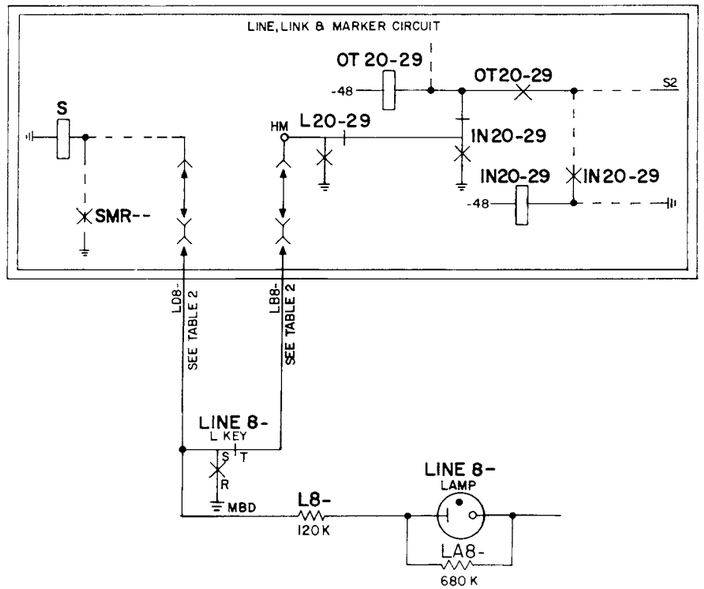
TABLE 2

LINE	ASSOC LEADS
80	LB80 LD80
81	LB81 LD81
82	LB82 LD82
83	LB83 LD83
84	LB84 LD84
85	LB85 LD85
86	LB86 LD86
87	LB87 LD87
88	LB88 LD88
89	LB89 LD89

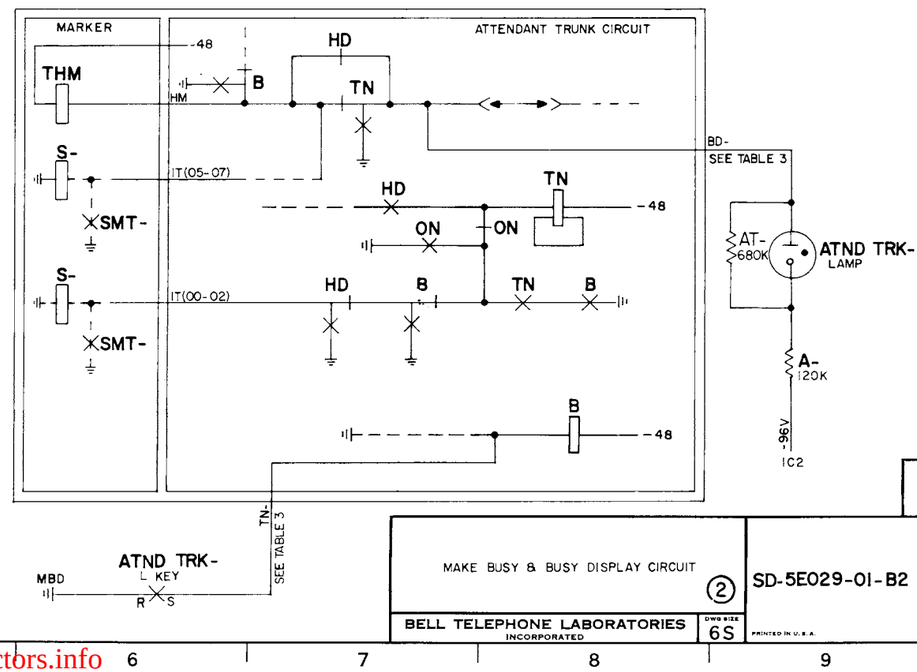
TABLE 3

ATTENDANT TRUNK	ASSOC LEAD
0	BD0 TN0
1	BD1 TN1
2	BD2 TN2

FS 5
• UNIVERSAL LINES
ASSIGNED TO TWO-WAY TIE TRUNKS



FS 6
ATTENDANT TRUNKS



DRAWING ISSUE		
4	BCM	RJS RHP
2D	TEF	RJS RHP
3A	WR	RJS LDJ

HW.

3

MAKE BUSY & BUSY DISPLAY CIRCUIT (2)

SD-5E029-01-B2

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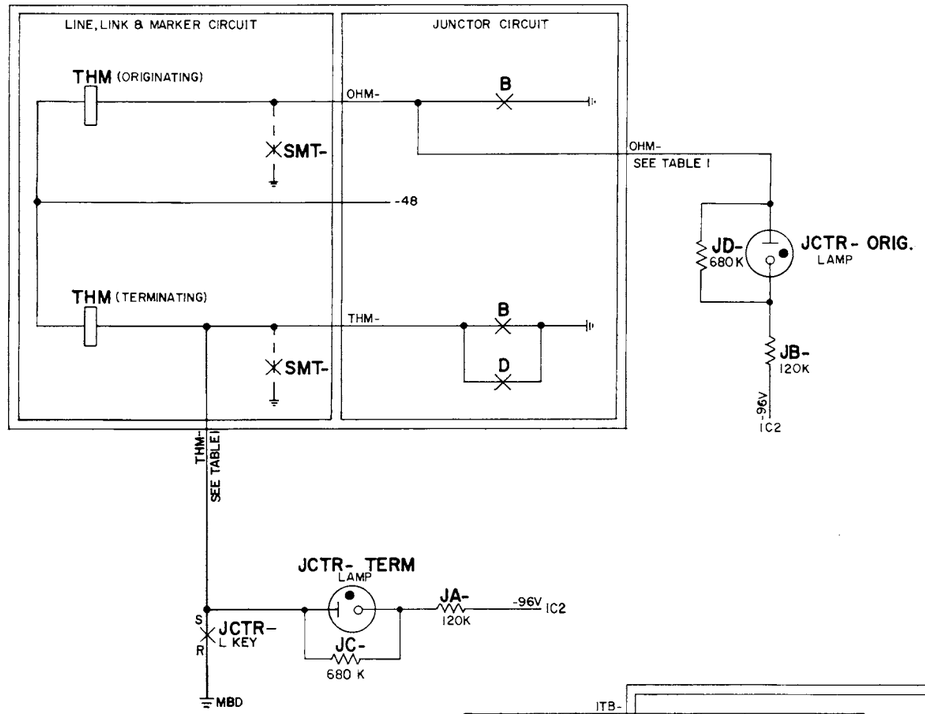
DRAWING ISSUE		
	BCN	HW.
	PJS	
	RHP	
2D	TEF	
	PJS	
	RHP	
3A	WR	
	PJS	
	ALDJ	

FS 7
JUNCTORS



FS 8
DIAL PULSE REGISTERS

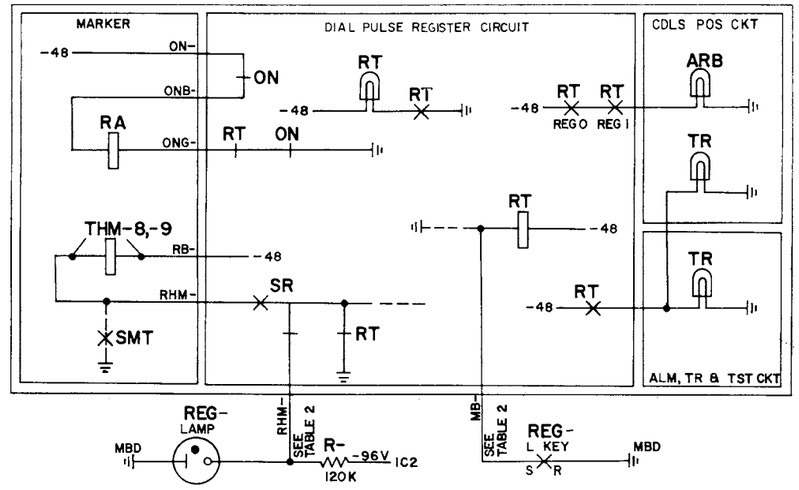


TABLE I

JUNCTOR	ASSOC LEADS
0	OHM0 THM0
1	OHM1 THM1
2	OHM2 THM2
3	OHM3 THM3
4	OHM4 THM4
5	OHM5 THM5

TABLE 2

REGISTER	ASSOC LEADS
0	MB0 RHM0
1	MB1 RHM1

FS 9
CENTRAL OFFICE TRUNKS

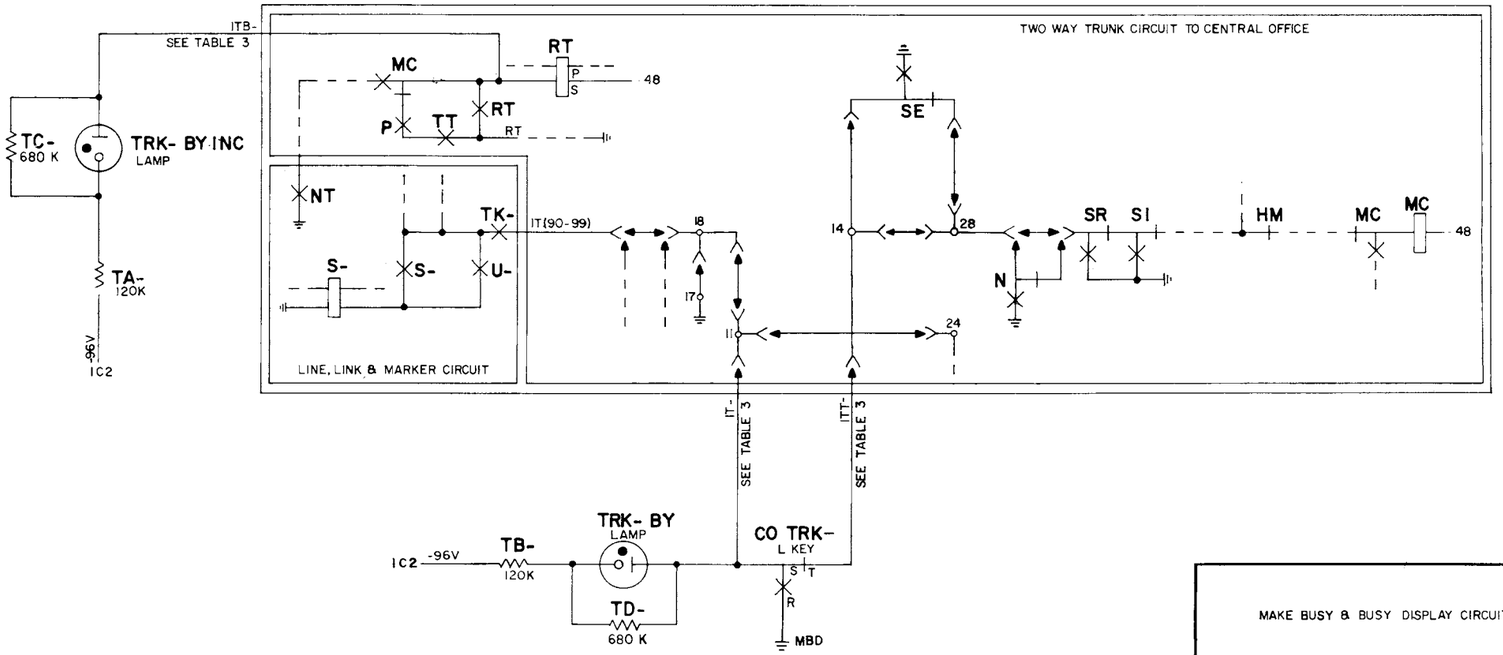


TABLE 3

C.O. TRUNK	ASSOC LEADS
0	IT0 ITB0 ITT0
1	IT1 ITB1 ITT1
2	IT2 ITB2 ITT2
3	IT3 ITB3 ITT3
4	IT4 ITB4 ITT4
5	IT5 ITB5 ITT5
6	IT6 ITB6 ITT6
7	IT7 ITB7 ITT7
8	IT8 ITB8 ITT8
9	IT9 ITB9 ITT9

3

MAKE BUSY & BUSY DISPLAY CIRCUIT (2)

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DWG SIZE 6S

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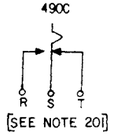
APP. FIG. 1

DIODES

DESIG	LOC	CODE
DLT	2C5	425AC

KEYS
[SEE TABLE 1]



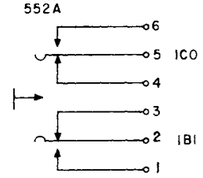
[SEE NOTE 20]

TABLE 1

KEYS

	DESIG	LOC	CODE
[3]	ATND TRKO-2	2H6	490C
	BT	1E8	490C
[10]	CO TRKO-9	3H5	490C
[2]	DLTRO,1	1F4	490C
[6]	JCTRO-5	3E1	490C
[10]	LINE 80-89	2D6	490C
[16]	{LINK 02-09 / LINK 12-19}	2B4	490C
[2]	REGO,1	3D7	490C

KEY
PWR
552A



KEY TOP
552A

LAMPS

	DESIG	LOC	CODE
[3]	ATND TRKO-2	2G9	G.E. NE-3 OR EQUIV.
	BT	1D8	G.E. NE-3 OR EQUIV.
[2]	DLTRO,1	1F4	G.E. NE-3 OR EQUIV.
[6]	JCTRO-5 ORIG	3C4	G.E. NE-3 OR EQUIV.
[6]	JCTRO-5 TERM	3E2	G.E. NE-3 OR EQUIV.
[10]	LINE 80-89	2D8	G.E. NE-3 OR EQUIV.
[16]	{LINK 02-09 / LINK 12-19}	2C4	G.E. NE-3 OR EQUIV.
	PWR-48 / PWR-96	1B1 / 1D1	G.E. NE-3 OR EQUIV.
[2]	REGO,1	3D6	G.E. NE-3 OR EQUIV.
[10]	TRKO-9 BY	3H5	G.E. NE-3 OR EQUIV.
[10]	TRKO-9 BY INC	3F2	G.E. NE-3 OR EQUIV.

RESISTORS

	DESIG	LOC	CODE
[3]	AO-2	2G9	KS-13490, L1, 120K
[3]	ATO-2	2G9	KS-13490, L1, 680K
	B	1D9	KS-13490, L1, 120K
	BT	1E8	KS-13490, L1, 680K
[2]	DAO,1	1G4	KS-13490, L1, 680K
[2]	DO,1	1F4	KS-13490, L1, 120K
[6]	JAO-5	3E2	KS-13490, L1, 120K
[6]	JBO-5	3C4	KS-13490, L1, 120K
[6]	JCO-5	3E2	KS-13490, L1, 680K
[6]	JDO-5	3C3	KS-13490, L1, 680K
[10]	L80-89	2D7	KS-13490, L1, 120K
[10]	LA80-89	2D8	KS-13490, L1, 680K
[16]	{LO2-09 / L12-19}	2C4	KS-13490, L1, 120K
	LA	2B5	KS-14603, L1A, 909
	P	1C1	KS-13490, L1, 120K
[2]	RO,1	3D6	KS-13490, L1, 120K
[10]	TAO-9	3G2	KS-13490, L1, 120K
[10]	TBO-9	3H4	KS-13490, L1, 120K
[10]	TCO-9	3F2	KS-13490, L1, 680K
[10]	TDO-9	3H5	KS-13490, L1, 680K

DRAWING ISSUE		
1	1-8	BCM PJS RHP
2D		TEF PJS RHP
3A		WR PJS LDJ
4A		WR PJS LDJ

HW.

4

MAKE BUSY & BUSY DISPLAY CIRCUIT (2)

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CIRCUIT NOTES:

101.

DESIG.	FUSE AMP	POTENTIAL	ONE PER
MBD	.180	-96V	PBX
MBD		GROUND	PBX

BATTERY SYMBOL	VOLTAGE RANGE
-48V	45-52 V
-96V	93-108 V

102.

FEATURE OR OPTION	PROVIDE		
	APP FIG.	APP OR WIR	QUANTITY
MAKE BUSY AND BUSY DISPLAY CKT	1		1 PER PBX

103.

NETWORK VALUES			
NETWORKS		RESISTANCE IN OHMS	CAPACITANCE IN UF
NO	CODE		

104.

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

EQUIPMENT NOTES:

201. THE NORMAL POSITION (OFF POSITION) OF 490C KEYS FOR THIS APPLICATION IS AS SHOWN IN APP. FIG.1 WITH THE PLUNGER PUSHED IN.

DRAWING ISSUE	
1	BCM PJS RHP
3A	WR PJS LDJ

HW

21

SD-5E029-01-01

K+E KEUFFEL & ESSER CO. NEW YORK

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3

MAKE BUSY & BUSY DISPLAY CIRCUIT (2)

SD-5E029-01-D1

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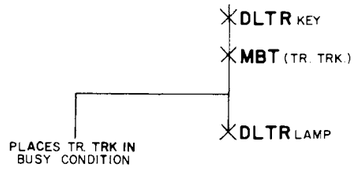
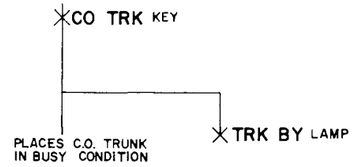
SC 1

STATION DIAL TRANSFER
TRUNK MADE BUSY
(PWR KEY OPERATED)



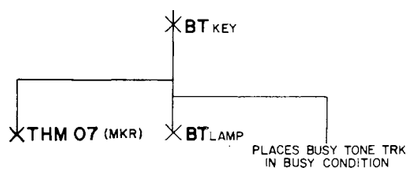
SC 2

C.O. TRUNK MADE BUSY
(PWR KEY OPERATED)



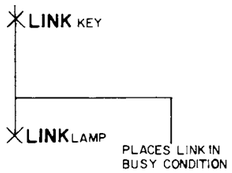
SC 3

BUSY TONE TRUNK MADE BUSY
(PWR KEY OPERATED)



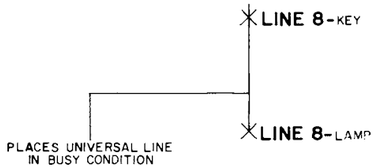
SC 4

LINK MADE BUSY
(PWR KEY OPERATED)



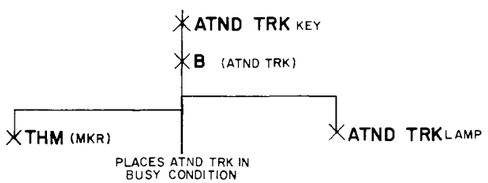
SC 5

UNIVERSAL LINE MADE BUSY
(PWR KEY OPERATED)



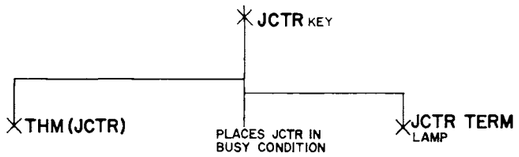
SC 6

ATTENDANT TRUNK MADE BUSY
(PWR KEY OPERATED)



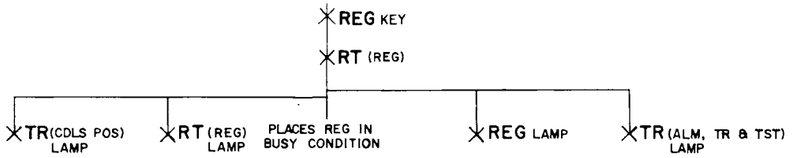
SC 7

JUNCTOR MADE BUSY
(PWR KEY OPERATED)



SC 8

DIAL PULSE REGISTER MADE BUSY
(PWR KEY OPERATED)



DRAWING ISSUE

	BCM RJS RHF
4A	WR RJS LDJ

HW.

4

MAKE BUSY & BUSY DISPLAY CIRCUIT

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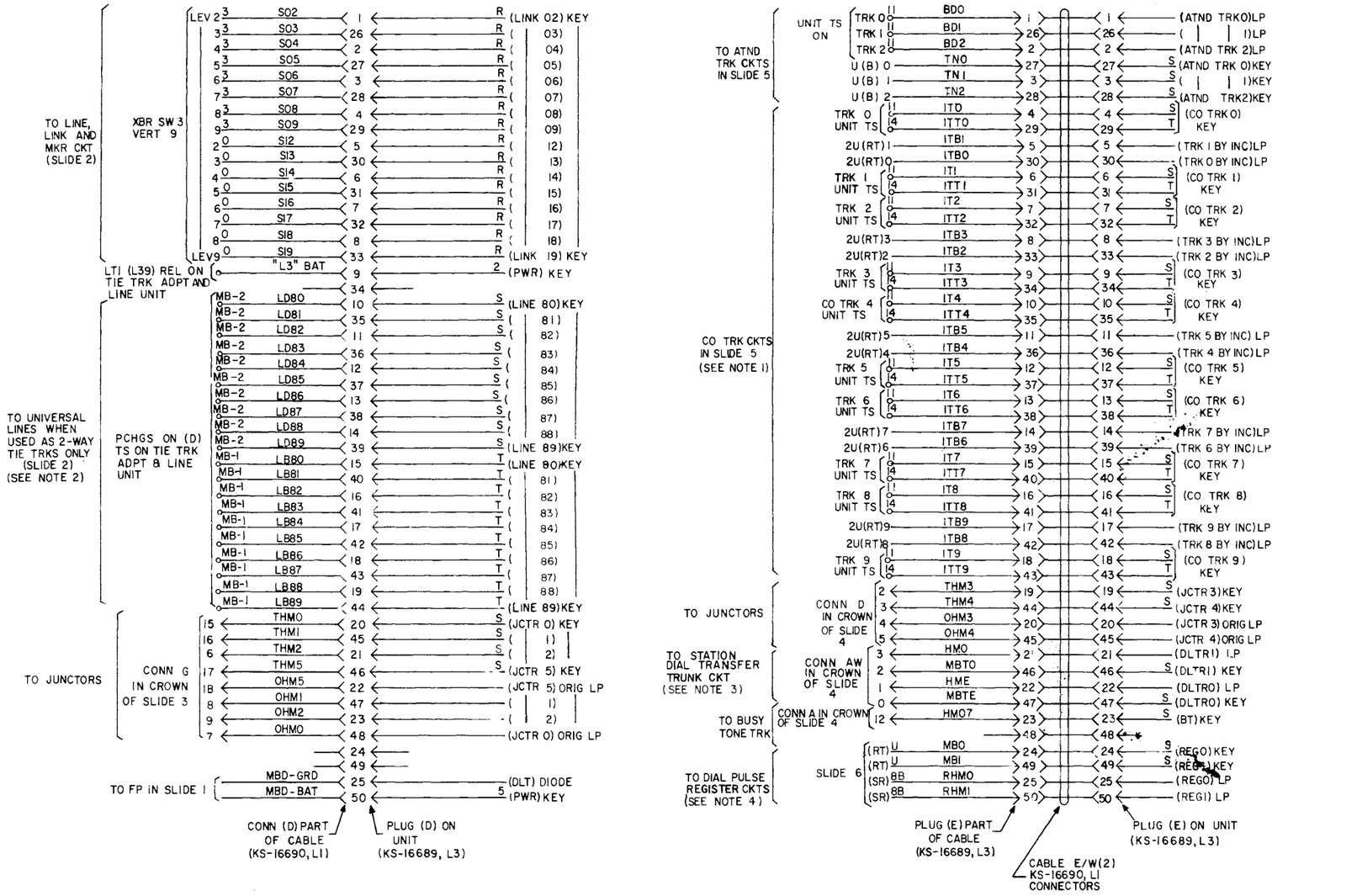
CAD 1 (A&M ONLY)



SHEET NOTES:

1. CHANGE STRAPS AT THE CO TRK TS AS SHOWN IN CAD 6 OF SD-65746-01, ISS 36. CHANGE CONNECTIONS TO THE CO TRK TS AS SHOWN IN THE FOLLOWING TABLE:

TRK NO		DISCONNECT LEAD	RECONNECT LEAD	COLOR		RMKS *
ALL		14 CO TRK TS	28 CO TRK TS			
0		18 CO TRK TS	14 CO TRK TS	BL		0(AG5)
1		18 CO TRK TS	14 CO TRK TS	O		1(AG5)
2		18 CO TRK TS	14 CO TRK TS	G		2(AG5)
5		18 CO TRK TS	14 CO TRK TS	R		
6		18 CO TRK TS	14 CO TRK TS	BK		
7		18 CO TRK TS	14 CO TRK TS	R-G		
3		17 (A) CONN (ON TRK PTCH UNIT)	14 CO TRK TS	BR	#	
4	**	17 (A) CONN (ON TRK PTCH UNIT)	14 CO TRK TS	S	#	
8		17 (A) CONN (ON TRK PTCH UNIT)	14 CO TRK TS	R-BL-W	#	
9		17 (A) CONN (ON TRK PTCH UNIT)	14 CO TRK TS	R-G-W	#	

* CROWN CONN TERMINATION, SHOWN ONLY WHEN NEEDED FOR IDENTIFICATION

** TWO LEADS TERMINATED, ONLY ONE IS MOVED AS SHOWN.

DISCONNECT LEADS WHEN CO TRK UNIT IS MOVED.

2. WHEN CONNECTION TO UNIVERSAL LINE CKTS IS REQUIRED, INSTALLER SHALL REMOVE CONNECTION BETWEEN TERMINAL HM OF (LINE) TS & TERMINAL HM-2 OF (D) TS. PROVIDE CONNECTIONS BETWEEN TERMINAL HM OF (LINE) TS & MB-1 OF (D)TS, AND STRAP BETWEEN TERMINALS MB-2 & HM-2 OF (D)TS FOR THOSE LINES USED AS TIE TRKS ONLY, PER INSTRUCTIONS FROM TEL CO ENGINEER.

3. WHEN THE PBX IS ARRANGED FOR STATION DIAL TRANSFER FEATURE AND CONNECTION FROM MAKE BUSY AND BUSY DISPLAY CIRCUIT IS DESIRED, CONNECT SPARE LEADS IN (BD) PLUG ASSEMBLY PER H-912 - , PLUG 3 TERMINALS 19,41,17, & 42 TO KS-16344, L2 PLUG TERMINALS 0,1, 2 & 3 RESPECTIVELY. KS-16344,L2 MUST BE PROVIDED AND LOCATED IN POSITION AW4. SEE SD-66909-01 ISSUE 3 AND SD-66921-01 ISSUE 6 FOR ADDITIONAL CHANGES.

4. DIAL PULSE REGISTER CIRCUIT MUST BE CHANGED PER SD-65742-01, ISSUE 27D.

DRAWING ISSUE		HW.
1	PMC RJS RHP	
2D	TEF RJS RHP	
3A	WR PJS LDJ	
4A	WR PJS LDJ	

4

MAKE BUSY & BUSY DISPLAY CIRCUT (2)

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SHEET INDEX

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SHEET INDEX CIRCUIT NOTES INFORMATION NOTES SUPPORTING INFORMATION	1
FSI VOLTAGE REDUCTION DETECTOR	2
CPSI VOLTAGE REDUCTION DETECTOR	3

CIRCUIT NOTES:

101.

DESIG	FUSE AMP.	POTENTIAL	ONE PER	TERM DESIG

BATTERY SYMBOL: -48 — VOLTAGE RANGE: 45-52V

BATTERY & GROUND TO BE FURNISHED BY CONNECTING CIRCUIT

102.

FEATURE OR OPTION	PROVIDE: APP FIG	APP OR WRG	QUANTITY
VOLTAGE REDUCTION DETECTOR	1		1 PER 5 VOLTAGE DIVIDER NETWORKS

CIRCUIT NOTES: (CONTINUED)

103.

NETWORK VALUES			
NETWORK NO.	NETWORK CODE	RESISTANCE IN OHMS	CAPACITANCE IN UF

104.

RECORD OF 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. VALUES PRECEEDED BY THE SYMBOL + (PLUS) OR - (MINUS) ARE IN VOLTS.

302. CALCULATION OF EXTERNAL RESISTANCE FOR CPI WHEN USED WITH -48 V BATTERY, FOR DESIRED ON-OFF OPERATION OF THE TRANSISTOR Q.

OFF CONDITION

TO BE SURE OF HAVING THE TRANSISTOR IN THE OFF CONDITION, THE RATIO OF R2 TO R3 UNDER NOMINAL CONDITIONS MUST BE AS FOLLOWS:

$$\frac{R2}{R3} < 12$$

ON CONDITION

TO BE SURE OF HAVING THE TRANSISTOR IN CONDUCTION AND HAVING IR LARGE ENOUGH TO OPERATE RELAY R UNDER NOMINAL CONDITIONS, RT MUST BE DEFINED BY:

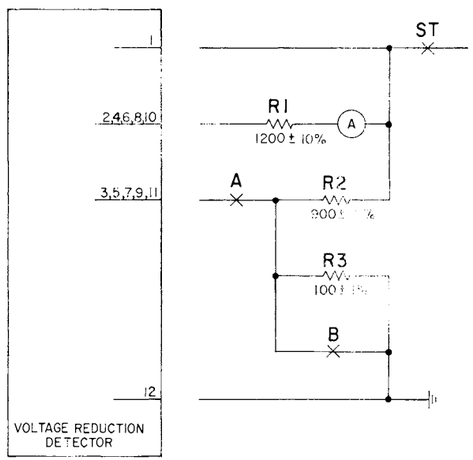
$$RT \leq \frac{0.8}{IR + IR2 + IB}$$

WHERE $RT = \frac{R3R4}{R3+R4}$; $IR = \frac{48}{R}$; $IB = \frac{IR}{24}$

$IR2$ = CURRENT THRU R2

303. THE TEST PREPARATION FOR THE CIRCUIT CPI SHOWN IN FSI IS AS FOLLOWS:

A. KEY ST OPERATED. AMMETER READS 0 MA.
B. KEYS ST & A OPERATED. AMMETER READS 0 MA.
C. KEYS ST, A, & B OPERATED. AMMETER READS ≥ 30 MA.



SUPPORTING INFORMATION

CATEGORY	NO.
EQUIPMENT DRAWINGS FOR CPSI	ED-5E009-30

DWG ISSUE	EE OR CD ISSUE	DATE ISSUED	DRAWN	APPD
1	1	9-15-67	JJR PJS RCL	JJM LAH RHP
2D	1 APP ID	1-9-68	WGN RCL	JJM LAH RHP

H.W.

2

SD-5E037-01 — 1107

PBX SYSTEMS
VOLTAGE REDUCTION DETECTOR AT MIDPOINT OF VOLTAGE DIVIDER NETWORK
(2)
(VRD)

A T&T CO. STANDARD

SD-5E037-01-1

3 SHEETS

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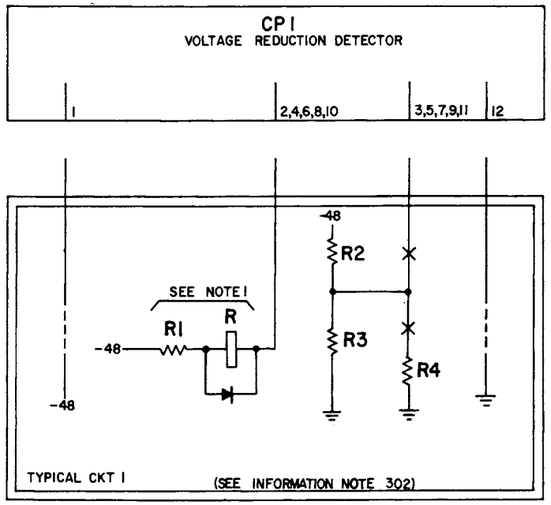
FS I

VOLTAGE REDUCTION DETECTOR CKT



NOTES:

1. TOTAL LOAD RESISTANCE SHOULD NOT BE LESS THAN 700 OHMS.

DRAWING ISSUE

1	JJR PJS HW RHF
2D	WGN RHF

2

VOLTAGE REDUCTION DETECTOR (2)

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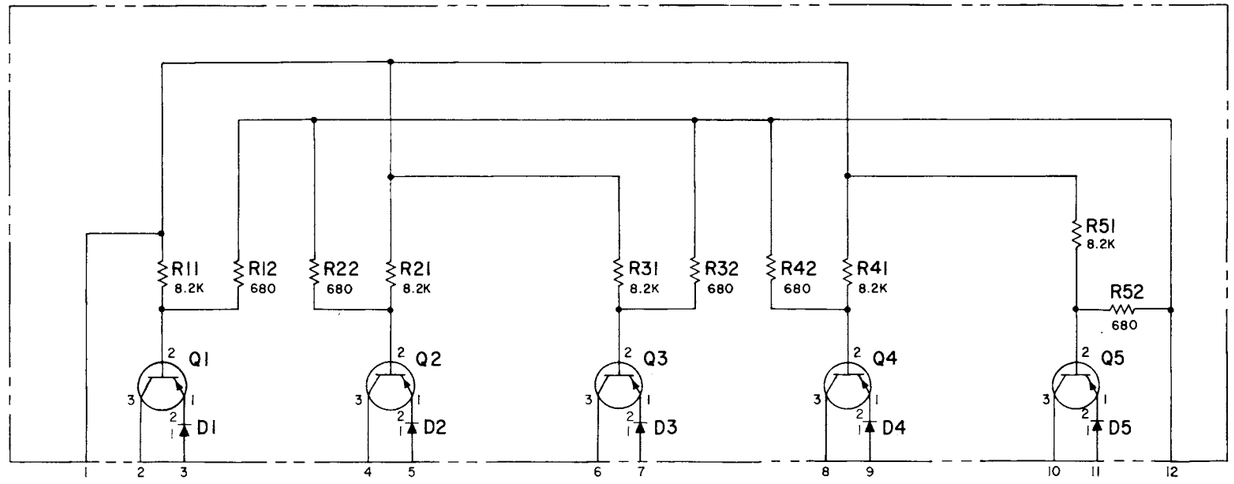
CPS I

VOLTAGE REDUCTION DETECTOR



RESISTOR

DESIG	CODE
R11	KS-13490, L1 8.2K
R12	KS-13490, L1 680
R21	KS-13490, L1 8.2K
R22	KS-13490, L1 680
R31	KS-13490, L1 8.2K
R32	KS-13490, L1 680
R41	KS-13490, L1 8.2K
R42	KS-13490, L1 680
R51	KS-13490, L1 8.2K
R52	KS-13490, L1 680

TRANSISTOR

DESIG	CODE
Q1	12N
Q2	12N
Q3	12N
Q4	12N
Q5	12N

DIODE

DESIG	CODE
D1	446A
D2	446A
D3	446A
D4	446A
D5	446A

DRAWING ISSUE

1	JJR PJS RHF	H.W.
2D	MGN RHF	

SD-5E037-01-3

2

VOLTAGE REDUCTION DETECTOR (2)

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