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DWG ISSUE	CD ISSUE	DATE ISSUED	Desig	APP'D
1	1	8-25-60	RJE GHR	ARM PJS
2	2	1-5-65	SEA DHC	WON HNA RD

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AT&TCO
STANDARD

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8 SHEETS

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INDEX

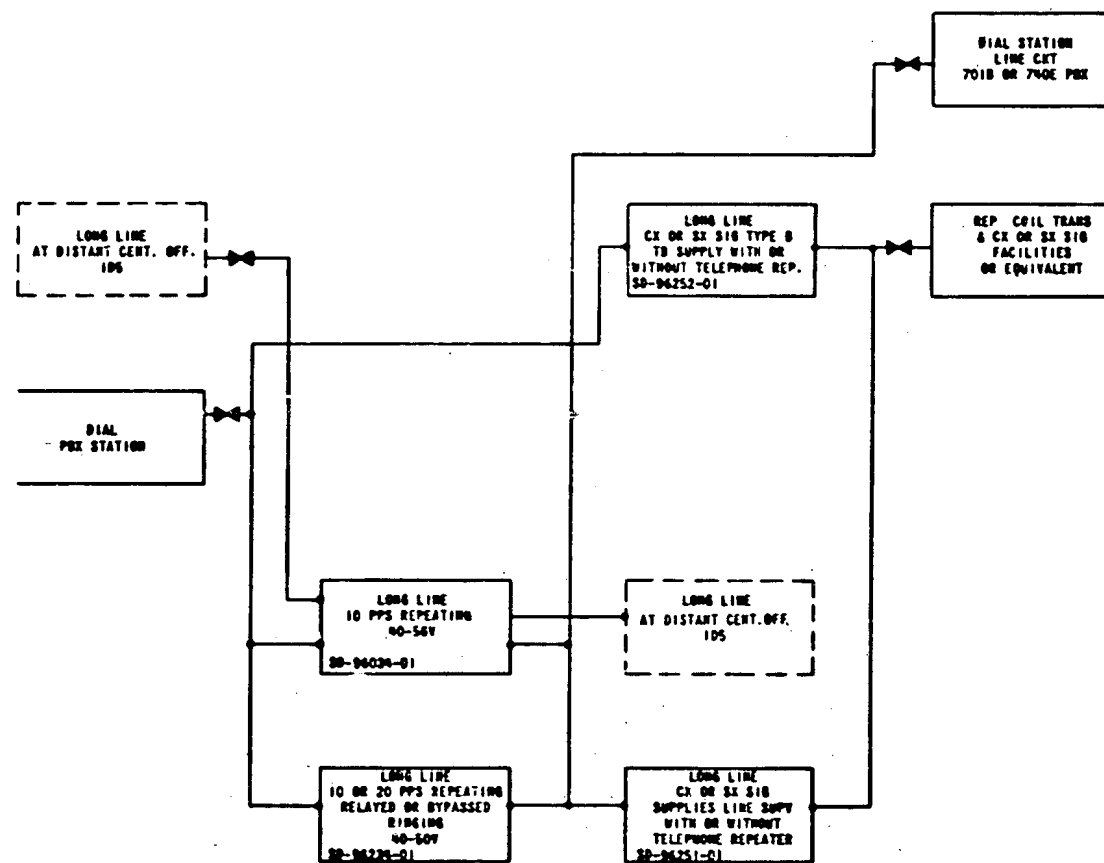
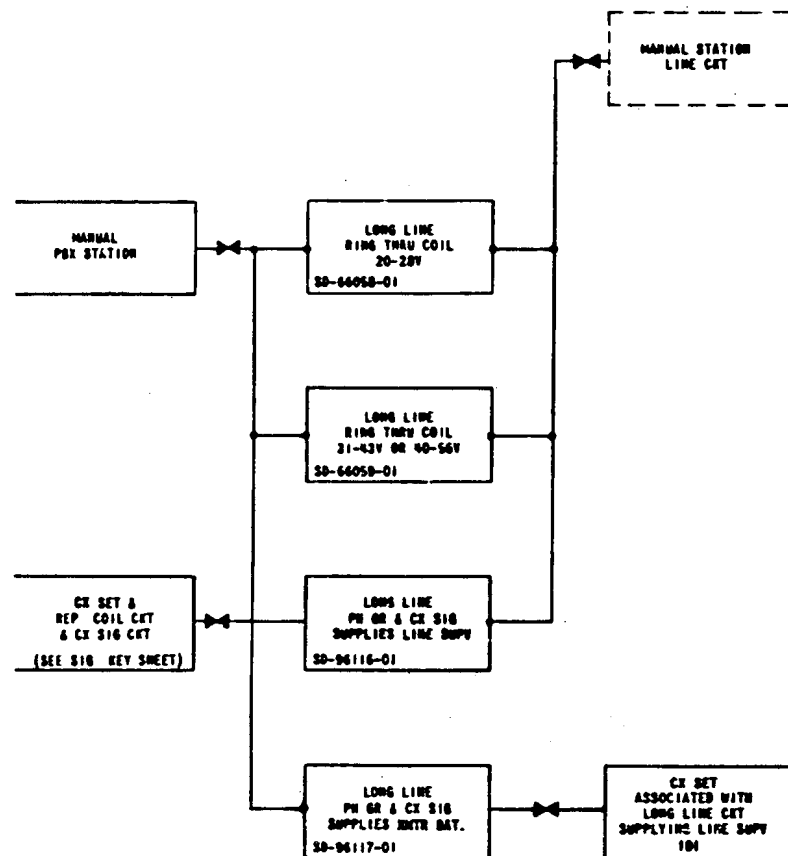
CIRCUIT NAME	DRAWING NUMBER	BLOCK LOC	CIRCUIT NAME	DRAWING NUMBER	BLOCK LOC	CIRCUIT NAME	DRAWING NUMBER	BLOCK LOC	CIRCUIT NAME	DRAWING NUMBER	BLOCK LOC
ALARM			LINE			LONG TRUNK, DIAL			TIE TRUNK (CONT)		
AUX SIG, FUSE ALARM, BATTERY CUTOFF	SD-66722-01	2D2, 2E7	AUXILIARY (SEE AUXILIARY LINE)			EQUIPMENT AT CENTRAL OFFICE			SELECTIVE SIG SS-1 SYSTEM 600-1500 CYCLE SENDING OR 600-1500 CYCLE OR 20-CYCLE RECEIVING	SD-65652-01	4F2
FUSE	SD-65779-01	2G3, 2H8	LONG (SEE LONG LINE)			REPEATS PULSES, WITHOUT RERING FEATURE	SD-96034-01	3D6	2-WAY MANUAL RINGDOWN THRU & TERMINATING ARRANGED FOR OPERATION ON CX OR NON-CX LINES WITH OR WITHOUT REPEATERS	SD-65681-01	4D2
AMPLIFIER			TOLL FOREIGN EXCHANGE SUB, 1000-CY OR 135-CY TOLL LINE SIGNALING	SD-62442-01	3G3	10 OR 20 PPS REP, RELATED OR BYPASSED RINGING 45-50V	SD-96234-01	3F6	2-WAY MANUAL RINGDOWN FOR USE IN MULTIPLE & NONMULTIPLE SUBD	SD-66025-01	4H2
VF	SD-95112-01	2F0, 2H4	MANUAL STATION	SD-66718-01	2A1	CX OR SX SIGNALING, SUPPLIES LINE SUPV WITH OR WITHOUT TEL REPEATER	SD-96251-01	3H7	LUI-DIAL TRANSMITTING INC-MANUAL & DIAL SELECTED	SD-66040-01	4A2
			TOLL SUB, TO TOLL SUBD NO. 1	SD-90077-01	3F3	CX OR SX SIGNALING, TYPE B TO SUPPLY, WITH OR WITHOUT TEL REPEATER	SD-96252-01	3G7	OUTGOING-MANUAL, INCOMING-MANUAL & DIAL SELECTED	SD-66065-01	4G2
			TOLL SUB, TO SUBD NO. 3, 3C, OR 3CL	SD-90078-01	3E3	LONG TRUNK, MANUAL			2-WAY MANUAL AND DIAL SELECTED	SD-66066-01	4E2
			LONG LINE, DIAL			EQUIPMENT AT CENTRAL OFFICE			2-WAY AUTOMATIC E & M LEADS SUPV	SD-67009-01	4J2
			EQUIPMENT AT CENTRAL OFFICE			RING THRU COIL 20-20V	SD-66058-01	3C1	TRANSFER		
			10 PPS REPEATING 40-56V	SD-96034-01	1D5	RING THRU COIL 31-43V OR 40-56V	SD-66059-01	3D1	EMERGENCY KEY	SD-66451-01	2C1
			10 OR 20 PPS REP, RELATED OR BYPASSED RINGING 45-50V	SD-96234-01	1E5	PH GROUP & CX SIG, SUPPLIES LINE SUPV	SD-96116-01	3E1			
AUXILIARY TRUNK			CX OR SX SIGNALING, SUPPLIES LINE SUPV WITH OR WITHOUT TEL REPEATER	SD-96251-01	1E6	PH GROUP & CX SIG, SUPPLIES TRANSMITTER BATTERY	SD-96117-01	3F1	TRUNK		
ARRANGED FOR 20-CYCLE SIMPLEX SIGNALING FOR USE WITH 4-WIRE 2-WAY RINGDOWN TIE TRUNK	SD-66679-01	4F3	CX OR SX SIGNALING TYPE B TO SUPPLY, WITH OR WITHOUT TEL REPEATER	SD-96252-01	1B6	MESSAGE WRITING	SD-65784-01	2A2, 2A5	AUXILIARY (SEE AUXILIARY TRUNK)		
			EQUIPMENT AT PBX			OSCILLATOR	SD-66725-01	2E2, 2H7	LONG (SEE LONG TRUNK)		
BLIND ATTENDANT			10 PPS REPEATING	SD-66060-01	1F5	PER COUNT	SD-65774-01	2E3, 2J7	TIE (SEE TIE TRUNK)		
MODIFICATION CKT FOR MODIFYING CORD, TRK, STATION LINE, TIE TRK, AND AUX SIG CKT FOR TONE IDENTIFICATION	SD-66771-01	3J2	LONG LINE, MANUAL			POSITION	SD-66721-01	2C2, 2D7	2-WAY MANUAL TO CENTRAL OFFICE	SD-66719-01	2D1, 2C5
			EQUIPMENT AT CENTRAL OFFICE						OFFICIAL PBX TRUNK	SD-66326-01	2J5
CONFERENCE			RING THRU COIL, 20-20V	SD-66058-01	1B1						
MANUAL, WITH VOICE REPEATER, ARR FOR A MAX OF 4 OR 5 SIMULTANEOUS CONNECTIONS	SD-65719-01	2H1, 2E4	RING THRU COIL, 31-43V OR 40-56V	SD-66059-01	1C1						
MANUAL, 6-WAY, 4-WIRE WITH VF AMPLIFIER	SD-65738-01	2F1, 2G4	PH GROUP AND CX SIG, SUPPLIES LINE SUPV	SD-96116-01	1B1						
MANUAL, FOR A MAX OF 4, 5, OR 6 SIMULTANEOUS CONNECTIONS	SD-66434-01	2G1, 2J4	PH GROUP AND CX SIG, SUPPLIES TRANSMITTER BATTERY	SD-96117-01	1E1						
MANUAL ARR FOR A MAX OF 4 OR 5 SIMULTANEOUS CONNECTIONS	SD-66462-01	2F4, 2J1	EQUIPMENT AT PBX			SUPPLY					
CORD	SD-66720-01	2B2, 2C7	REPEATED RINGING	SD-66060-01	1F1	AC POWER FOR AC LAMPS	SD-80770-01	2F3, 2F8			
						POWER, BATTERY-LESS	SD-81496-01	2C3			
INTERRUPTER						POWER, WITH BAT. RESERVE	SD-81497-01	2D3			
RELAY - 30 IPR	SD-66728-01	2C8				TIE TRUNK					
JACK						2-WAY MANUAL RINGDOWN	SD-65682-01	4B2			
FOR ATTENDANT SUBD	SD-65778-01	2B1, 2C6				OUT. MANUAL SELECTED & DIAL REPEATING	SD-66298-01	4C2			
LAMP						2-WAY MANUAL RINGDOWN ARR FOR OPERATION ON COMPOSITED AND NONCOMPOSITED LINES	SD-66649-01	4E2			
AC LAMP RELAY	SD-66724-01	2F2, 2F7				OUT. MAN. & DIAL SELECTED & DIAL REPEATING INCOMING-PULSE CORRECTING WITH OR WITHOUT E & M LEADS SUPERVISION	SD-65718-01	4C5			
DC BSY LAMP RES	SD-66722-01	2E1, 2E6				OUT. MANUAL & DIAL SELECTED & DIAL REPEATING INCOMING-DIAL PULSE	SD-66042-01	4D5			

PBX SYSTEMS	2	SD-66729-01-A2
NO. 600A KEY SHEET		
BELL TELEPHONE LABORATORIES INCORPORATED		

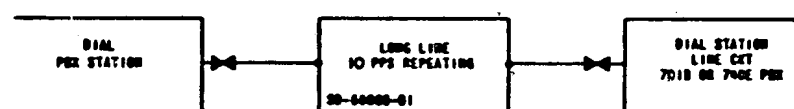
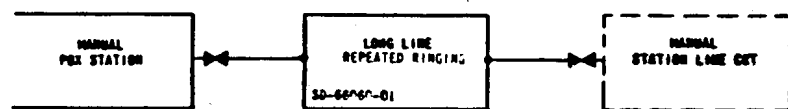
SD-66729-01-A2

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EQUIPMENT AT CENTRAL OFFICE



EQUIPMENT AT PBX



LONG LINES FOR USE WITH MANUAL STATION

LONG LINES FOR USE WITH DIAL STATION

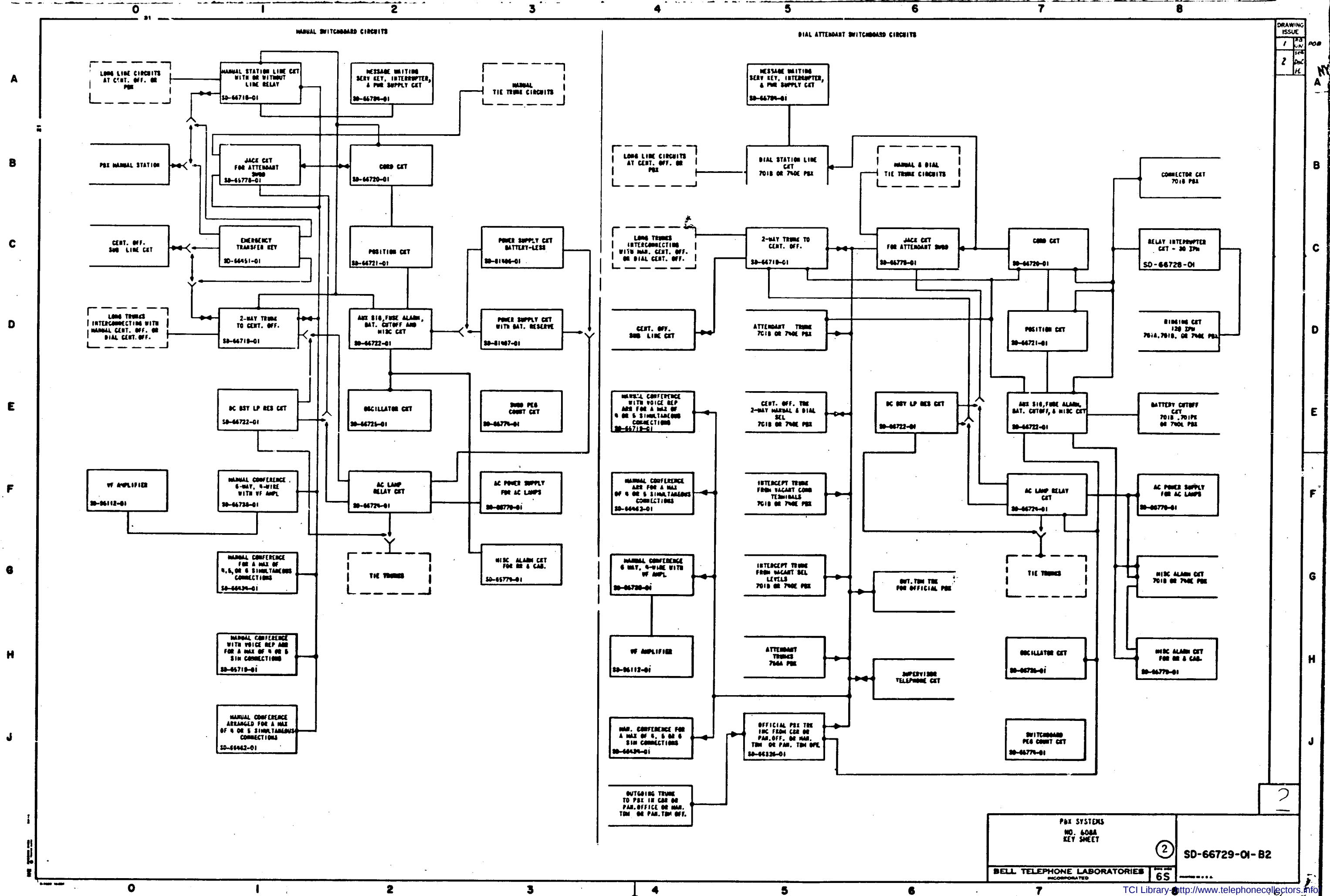
DRAWING	ISSUE
1	REVISED
2	REVISED

A
B
C
D
E
F
G
H
JPBX SYSTEMS
NO. 600A
KEY SHEETBELL TELEPHONE LABORATORIES
INCORPORATED

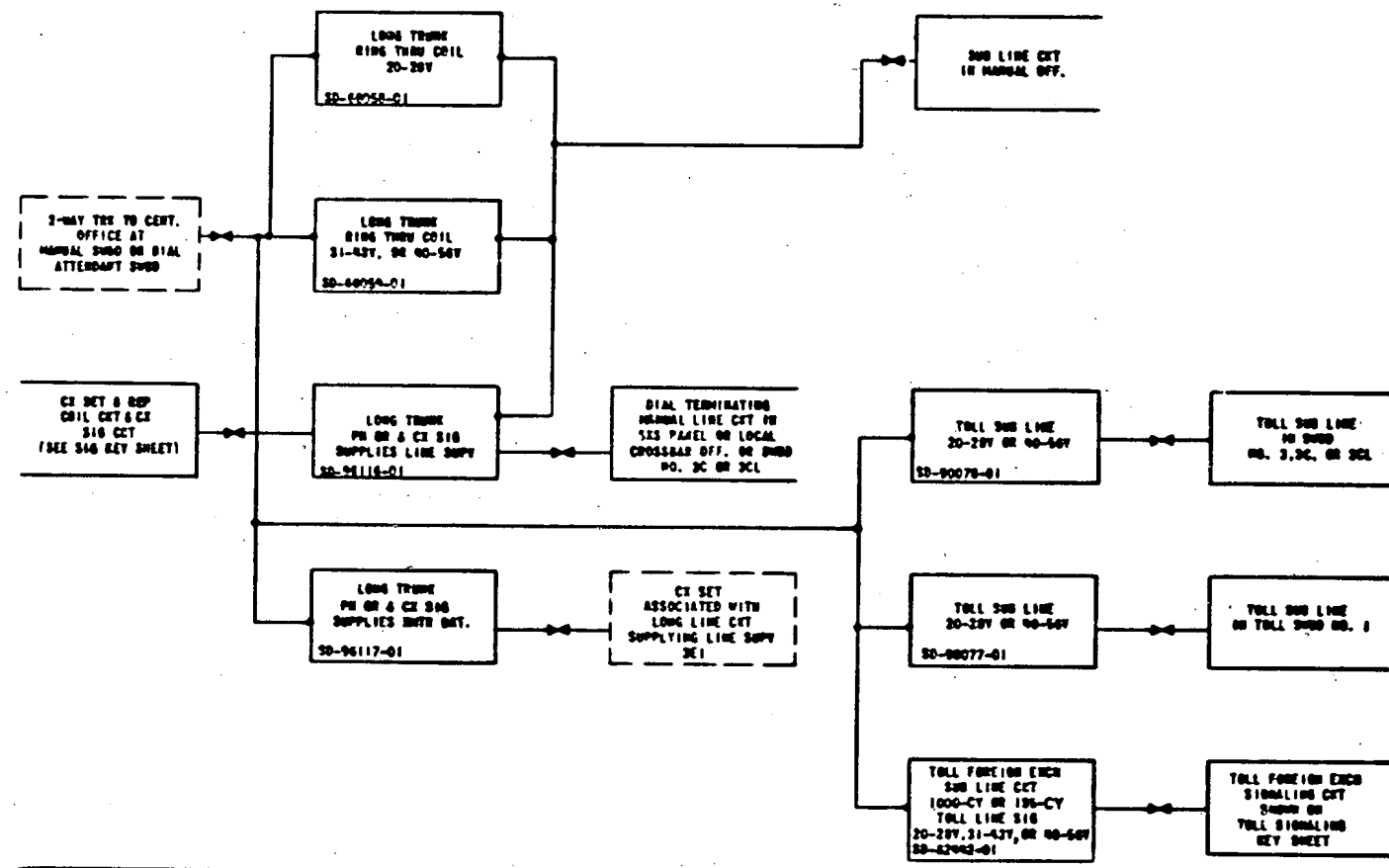
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SD-66729-01-B1

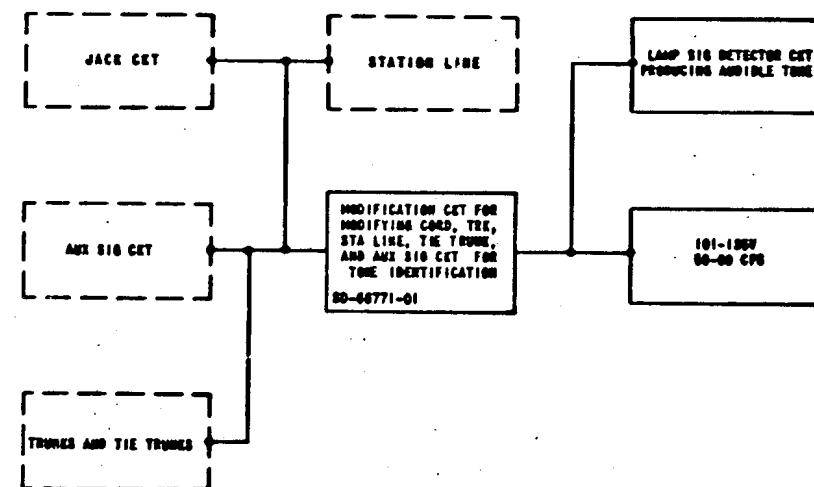
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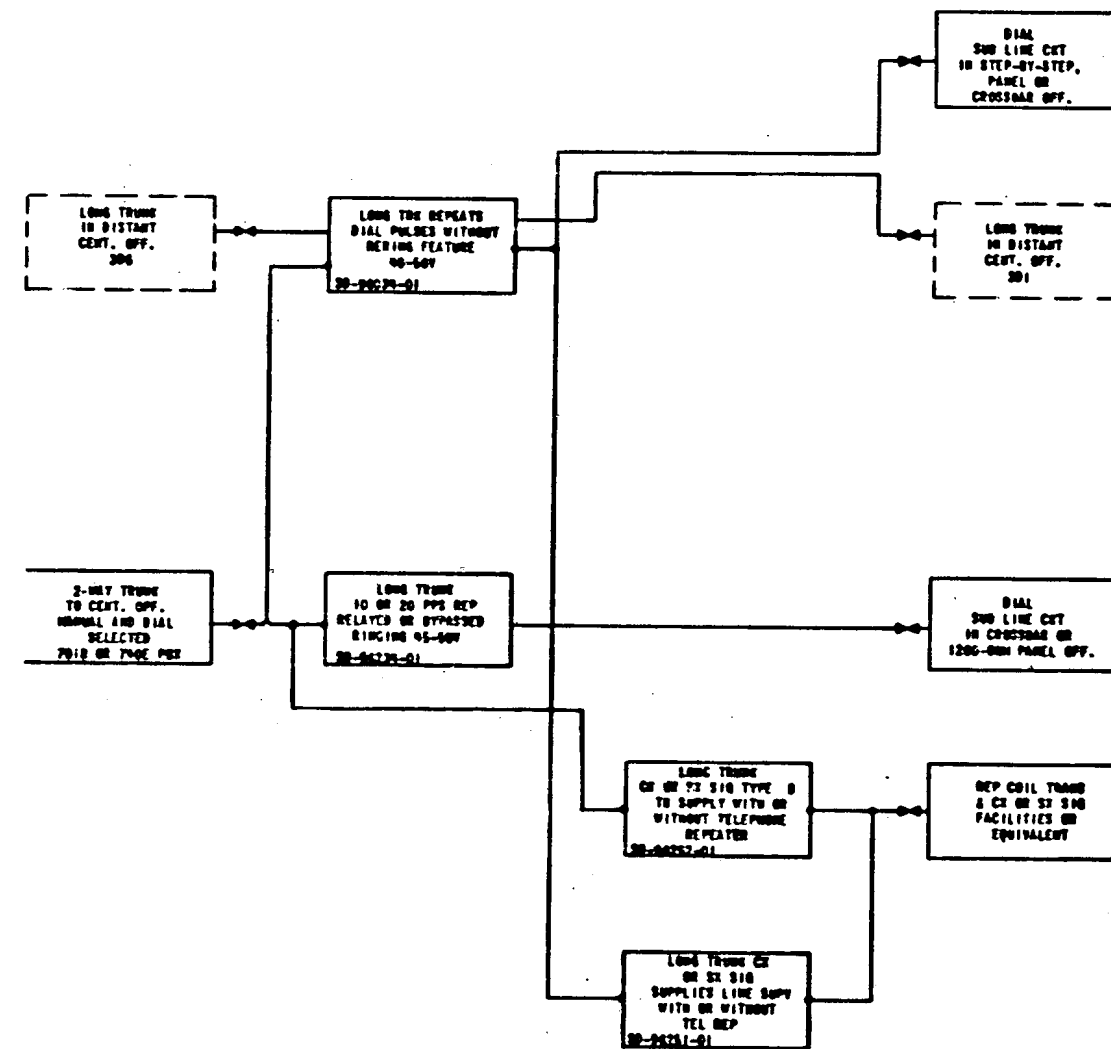
LONG TRUNKS INTERCONNECTING 2 WAY MANUAL CENTRAL OFFICE TRUNKS WITH MANUAL CENTRAL OFFICE OR TOLL SWITCHBOARD (EQUIPMENT AT CENTRAL OFFICE)



MODIFICATION FOR BLIND ATTENDANT



LONG TRUNKS INTERCONNECTING 2 WAY MANUAL CENTRAL OFFICE TRUNK WITH DIAL CENTRAL OFFICE (EQUIPMENT AT CENTRAL OFFICE)



DRAWING
ISSUE
1
2

SD-66729-01-B3

PBX SYSTEMS
NO. 608A
KEY SHEET

2

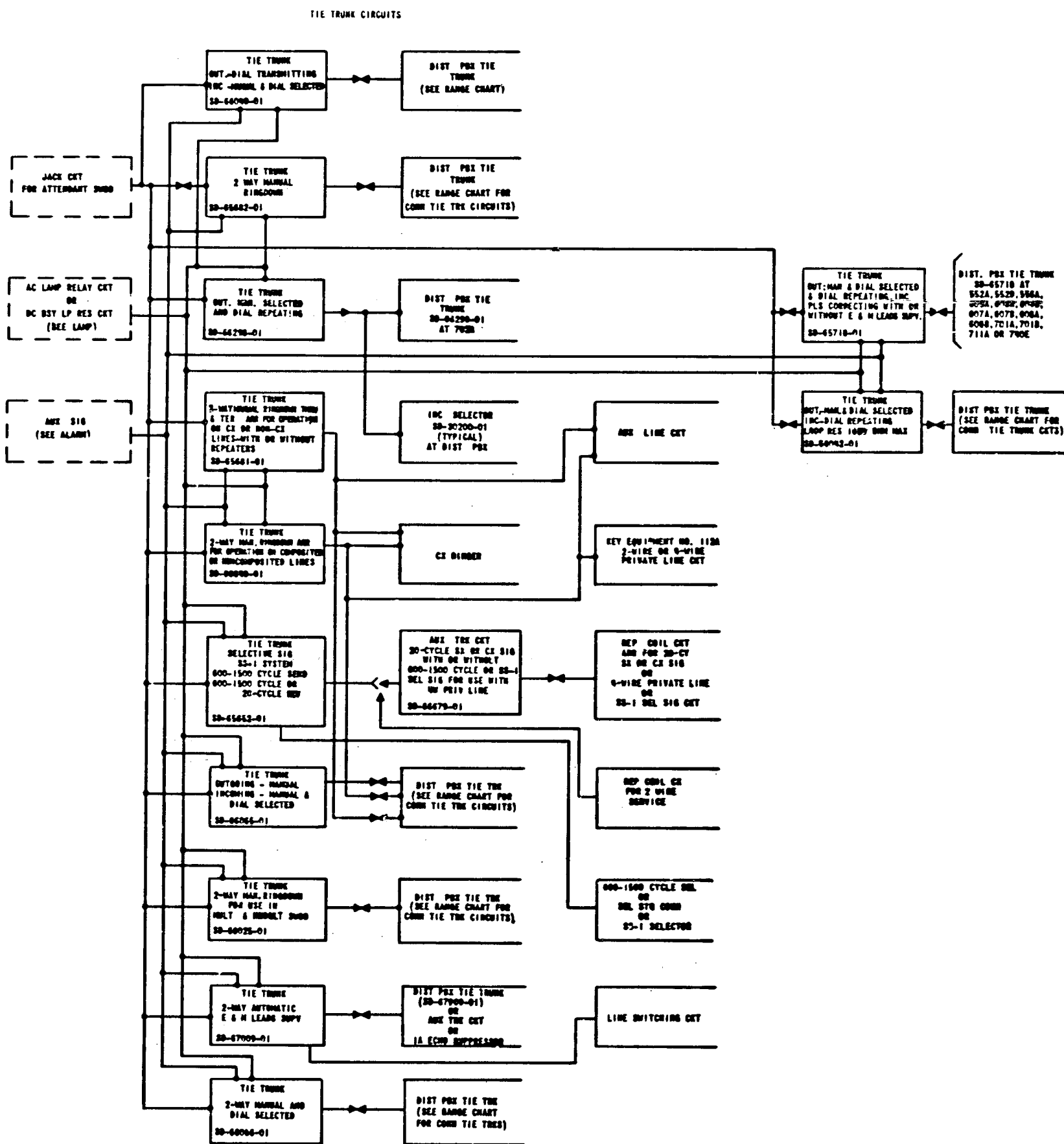
SD-66729-01-B3

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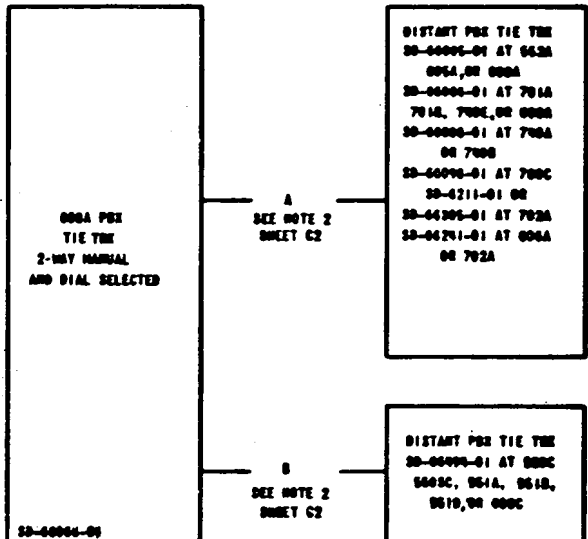
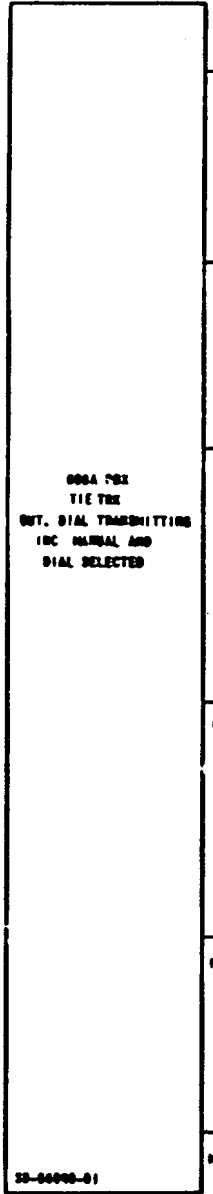
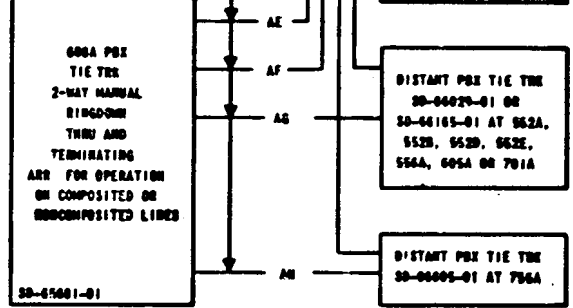
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SD-66729-01-B4



DRAWING
ISSUE
2

20-06102-01 AT 710C



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NOTES:

1. ALL THE TIE TRK RANGES ARE SHOWN IN TERMS OF CONDUCTOR LOOP BETWEEN PBX'S AND ARE BASED ON VOLTAGES AT RINGING MACHINE THRU RESISTANCE LAMP OR LAMPS IN SERIES WITH RINGING SUPPLY LEADS AND INCLUDES THE RESISTANCE OF THE RINGING SUPPLY LEADS WHEN FURNISHED FROM CENTRAL OFFICE.

LOOP DESIG	TYPE OF LINE	MIN RING. VOLT. (20 CY)	WITHOUT MORSE THUMP PROTECTION OPTION		WITH MORSE THUMP PROTECTION OPTION					
			WITHOUT RINGER AT LOC AND DIST PBX (OHMS)	WITH RINGER AT LOC OR DIST PBX (OHMS)	WITHOUT RINGER AT LOC OR DIST PBX (OHMS)	WITH RINGER AT LOC OR DIST PBX (OHMS)				
AA	CX	75	2600	2500	1500	1400				
		95	4000	3900	2300	2200				
	NON-CX	75	2600	2500						
		95	4000	3900						
AB	CX	75	880	880	880	880				
		95	1800	1800	1800	1800				
	NON-CX	75	2000	2000						
		95	2700	2700						
AC	CX	75	880	880	880	880				
		95	1800	1800	1800	1800				
	NON-CX	75	2600	2500						
		95	3800	3000						
AD	CX OR NON-CX	75		NO. OF	1	2300		NO. OF	1	1400
				RINGERS	2	2100		RINGERS	2	1400
				AT DIST	3	1900		AT DIST	3	1400
				PBX	4	1600		PBX	4	1400
	CX OR NON-CX	95		NO. OF	1	3100		NO. OF	1	2200
				RINGERS	2	2900		RINGERS	2	2200
				AT DIST	3	2600		AT DIST	3	2200
				PBX	4	2300		PBX	4	2200

LOOP DESIG	TYPE OF LINE	MIN RING. VOLT. (20 CY)	WITHOUT RINGER AT LOC AND DIST PBX (OHMS)	WITH RINGER AT LOC OR DIST PBX (OHMS)		
AE	CX OR NON-CX	75	2600	2500		
		95	4000	3900		
AF	CX	75	880	880		
		95	1800	1800		
	NON-CX	75	2000	2000		
		95	2700	2700		
AG	CX	75	880	880		
		95	1800	1800		
	NON-CX	75	2600	2500		
		95	3800	3000		
AH	CX OR NON-CX	75		NO. OF RINGS AT DIST PBX	1	2300
					2	2100
		95		NO. OF RINGS AT DIST PBX	3	1900
					4	1600
	CX OR NON-CX	75		NO. OF RINGS AT DIST PBX	1	3100
					2	2900
		95		NO. OF RINGS AT DIST PBX	3	2600
					4	2300

2. ALL TIE TRUNK RANGES SHOWN ON THE RANGE CHART INCLUDE THE RESISTANCE OF THE OUTSIDE CABLES THE WIRING AT THE PBX AND THE HEAD COILS. THE RESISTANCE OF THE PBX APPARATUS IS NOT INCLUDED. VALUES ARE SHOWN IN TERMS OF CONDUCTOR LOOP BETWEEN PBX'S.

LOOP DESIG	MAX LOOP RES (OHMS)	MIN INS RES (OHMS)	MIN BAT. SUPPLY AT NO. 608A PBX	BAT. SUPPLY REL. (L) AT NO. 608A PBX	HIGH-LOW REL. (S) AT DIST PBX	MIN BAT. SUPPLY AT DIST PBX	SEE NOTE NO.	REMARKS
A	1530	20,000	32V	693	85-12,000	32V		
A	1830	30,000	32V	693	85-12,000	32V		
A	2380	20,000	44V	693	85-12,000	44V		
A	2480	30,000	44V	693	85-12,000	44V		
A	3250	30,000	32V	693	160-24,000	32V		
A	4350	30,000	44V	693	160-24,000	44V		

RANGE CHART FOR TIE TRUNKS

2.
(CONT)

LOOP DESIG	MIN LOOP RES (OHMS)	MAX LOOP RES (OHMS)	MIN INS RES (OHMS)	HIGH-LOW REL. (S) AT DIST PBX	MIN BAT. SUPPLY AT NO. 608A PBX	BAT. SUPPLY AT DIST PBX	SEE NOTE NO.	REMARKS
A		1400	20,000	85-12,000	32V	14-26V		
B		1500	20,000	85-12,000	32V	15-20V		
B		2180	20,000	85-12,000	32V	20-28V	3	
B	1340	4500	30,000	160-24,000	44V	45-50V	3	

3. VALUES INCLUDE LOOP-RESISTANCE OF BATTERY FEEDER OVER WHICH BATTERY AND GROUND ARE FURNISHED FROM CENTRAL OFFICE.

CIRCUITS FOR WHICH
BOTH LIST 1 & LIST 2
DRAINS ARE NEGLIGIBLE

TYPE OF EQUIPMENT OR CIRCUIT TITLE		CIRCUIT NUMBER	SEC NOTE NO.	48V BAT.	48V CRD					
					FR	SWBD				
ALARM										
AUX SIG. FUSE ALARM, BAT. CUTOFF AND MISC CKT		SD-66722-C1		.14C		.140				
CORD										
MAN. PBX ONLY		SD-66720-01		.364		.232				
MAN. AND DIAL PBX				.130		.065				
INTERRUPTER, RELAY		SD-66728-C1		.071		.057				
LAMP										
AC LAMP RELAY		SD-66724-C1		NEG		.028				
LINE, LONG DIAL		SD-96251-C1		.100		.100				
POSITION		SD-66721-01		.11C		.110				
TRUNK										
LONG				.05C		.050				
LONG	DRAIN TOWARD DIAL STATION; FIG. 1 OR 2	SD-96034-01		.031		.031				
	DRAIN TOWARD PBX DIAL LONG LINE; FIG. 3			.005		.065				
LONG		SD-96234-C1		.022		.022				
LONG DIAL		SD-96251-01		.100		.100				
LONG DIAL	WITHOUT REPEATER	SD-96252-C1		.057		.057				
	WITH REPEATER			.089		.089				
	ADD FOR HI CARRIER			.019						
TIE		SD-65682-01		.031		.011				
			2	.012						
			3	.007		.007				
TIE		SD-66298-C1		.125		.223				
			2	.012						
			3	.007		.007				
TIE		SD-66449-C1		.080		.062				
			2	.012						
			3	.007		.007				
CENTRAL OFFICE		SD-66719-01		.011						
			3	.004						
			4	.018						
			5	.028						

NOTES:

1. SEE NOTE 301.
2. ADD PER IDLE INDICATING LAMP GROUP
3. ADD PER 2Y LAMP.
4. ADD PER TRUNK DC BUSY LAMP.
5. ADD PER AC BUSY LAMP RELAY OR AC IDLE INDICATING RELAY.

SD-62442-D1	
SD-65719-D1	
SD-65738-D1	
SD-65774-D1	
SD-65778-D1	
SD-65779-D1	
SD-65784-D1	
SD-66660-C1	
SD-66634-C1	
SD-66451-C1	
SD-66679-C1	
SD-66718-C1	
SD-66725-C1	
SD-90077-C1	
SD-90078-C1	
SD-95112-C1	
SD-96116-D1	
SD-96734-C1	

INFORMATION NOTE:
301. THE LISTED DRAIN APPLIES TO THE
FOLLOWING CIRCUITS

SD-66C57-01
SD-66C58-01
SD-66C59-01

SD-96C09-01
SD-96C10-01
SD-96117-01

AT&TCO
STANDARD

SD-66729-02

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