

SUPPORTING INFORMATION

CATEGORY	NO.
FOR EXPLANATION OF CONVENTIONS SEE MASTER KEY SHEET	SD-90250-01
GENERAL DESCRIPTION BSP	981.662.100

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.

GENERAL DESCRIPTION

THE 757A PBX SYSTEM IS A CROSSBAR DIAL SWITCHING SYSTEM SIMILAR IN DESIGN TO THE 756A BUT WITH LARGER CAPACITY AND NEW SERVICE FEATURES.

THE 757A PBX SYSTEM PROVIDES A PACKAGED PBX SYSTEM WHICH CAN READILY BE INCREASED IN SIZE FROM A 40-LINE CAPACITY TO A MAXIMUM 200-LINE CAPACITY ON A BUILDING BLOCK BASIS.

THE PREASSEMBLED PACKAGES ARE ARRANGED SO THAT THEY MAY BE ORDERED BY THE TELEPHONE COMPANY WITH A MINIMUM OF DETAILED ENGINEERING.

EACH 757A PACKAGE CONTAINS OPTIONAL ARRANGEMENTS TO SATISFY VARYING CUSTOMER REQUIREMENTS, AND THEREFORE, MINOR TERMINAL STRIP WIRING OPTIONS WILL BE REQUIRED IN SOME CASES ON AN "ON-THE-JOB" BASIS.

THE EQUIPMENT HAS BEEN DISTRIBUTED AMONG A NUMBER OF CABINETS WHICH ARE ARRANGED SO THAT ONE GROUP PROVIDES THE BASIC REQUIREMENTS FOR A 40-LINE SYSTEM. OTHER CABINETS ARE ADDED IN SEQUENCE TO THE BASIC GROUP, TO INCREASE THE TRAFFIC CAPACITY OR TO INCREASE THE LINE CAPACITY (IN STEPS OF 40 LINES) AS REQUIRED. THE ONLY TIME A CABINET MUST BE REMOVED IS WHEN A 40-LINE SIZE WITH TRAFFIC CAPACITY "A" IS BEING EXPANDED TO HANDLE HEAVIER TRAFFIC OR ANOTHER LINE GROUP.

THIS SYSTEM IS PRIMARILY DESIGNED TO OPERATE WITH CORDLESS ATTENDANT EQUIPMENT. HOWEVER, IT CAN ALSO BE EQUIPPED WITH A 600-TYPE CORD SWITCHBOARD WHEN REQUIRED, OR IT MAY BE ARRANGED FOR UNATTENDED OPERATION.

EACH LINE SIZE IS NORMALLY CAPABLE OF HANDLING HEAVY TRAFFIC, BUT CAN BE ARRANGED TO HANDLE EXTRA-HEAVY CENTRAL OFFICE TRAFFIC.

A COMMERCIAL 230-VOLT OR 117-VOLT SUPPLY IS THE ONLY POWER INPUT NORMALLY REQUIRED. THE SYSTEM IS ARRANGED TO CONVERT THIS SUPPLY TO THE VARIOUS AC AND DC VOLTAGES NECESSARY FOR SYSTEM OPERATION. AN OPTIONAL BATTERY RESERVE SUPPLY IS AVAILABLE FOR USE WHERE SERVICE INTERRUPTIONS DUE TO COMMERCIAL POWER FAILURE CANNOT BE TOLERATED.

THE 757A PBX WILL OPERATE WITH ANY STANDARD CENTRAL OFFICE, AND WITH FOREIGN EXCHANGE TRUNKS, TIE TRUNKS, PAGING TRUNKS, RECORDED TELEPHONE DICTATION, CONFERENCE AND CODE CALLING FACILITIES.

CIRCUIT INDEX

CIRCUIT NAME	DRAWING NUMBER	BLOCK LOC(1)	CIRCUIT NAME	DRAWING NUMBER	BLOCK LOC(1)
ALARM	SD-66734-01	1B8, 2C0, 3G0, 4J7, 4F2, 4J8, 4B5, 2J6	STATION MESSAGE REGISTER PULSE CIRCUIT	SD-66894-01	300, 4M7, 4M8
ATTENDANT LOOP & CONTROLLER	SD-66737-01	1E5, 3A0, 4F3	RINGING CIRCUIT	SD-81337-01	4B6
CABLING DIAGRAM	SD-66735-01	3M0, 1M4	DELAY TIME DELAY	SD-66793-01	1E6, 3F0, 4C3
CONFERENCE			TRUNKS		
ATTENDANT CONTROL	SD-66881-01	2G1	AUXILIARY INCOMING TRUNK EXT	SD-66896-01	4D1, 4E1
STATION CONTROL	SD-66880-01	2F1	2-WAY CENTRAL OFFICE	SD-66749-01	3B1
DIAL	SD-66761-01	2M1	2-WAY CENTRAL OFFICE TRUNK FOR USE WITH DIAL TRANSFER	SD-1E002-01	3C1
DIRECT STATION SELECTION	SD-66745-01	1C5	1-WAY DIAL SELECTED CENTRAL OFFICE TRUNK OR 2-WAY DIAL AND MANUAL SELECTED INCOMING RINGDOWN FOR USE WITH 600 PBX	SD-66750-01	3E1, 2M5
DIAL TRANSFER			BUSY VERIFICATION	SD-66751-01	1D7
TRUNK	SD-66752-01	3D1	BUSY TONE	SD-66746-01	1E7
CONTROLLER	SD-66753-01	3D2	ATTENDANT	SD-66748-01	1M7
DIRECT INWARD DIALING			ATTENDANT TRUNK TO 600 PBX	SD-66876-01	2F5
TRUNK, REVERSE BATTERY SUPPLY	SD-1E004-01	4E2	TO TOLL OPERATOR	SD-67006-01	3F1
TRUNK, BYLINK REVERSE BATTERY SUPPLY	SD-1E003-01	4D2	TRUNKS, MISCELLANEOUS		
INCOMING REGISTER LINK CIRCUIT	SD-66738-01	4D3	3A CODE CALL AUXILIARY	SD-66764-01	2B1
INCOMING DIAL PULSE REGISTER	SD-66739-01	4D4	RECORDED TELEPHONE DICTATION AUXILIARY	SD-66763-01	2C1
JUNCTION	SD-66747-01	1J7	LOUDSPEAKER PAGING	SD-66762-01	2D1
LINE, LINK AND MARKER	SD-66733-01	1B5, 1B6, 1C6, 1B7, 3B0, 4E4, 2A0, 2F4,	EXECUTIVE	SD-1E000-01	2J1
LINK RESEIZURE DELAY	SD-66675-01	4C2	TRUNKS, TIE		
POSITION	SD-66736-01	1D5, 3G2, 4E3, 2D0	AUXILIARY	SD-66765-01	2A1
POSITION, AUXILIARY	SD-66874-01	1B6	RINGDOWN DIAL AND MANUAL SELECTED WITH 2 SECOND OUTGOING RING FOR USE WITH 600A PBX	SD-66897-01	2G5
POWER			RINGDOWN DIAL SELECTED WITH 2 SECOND OUTGOING RING	SD-66766-01	2E1
SUPPLY CIRCUIT NO BATTERY OPERATION	SD-81549-01	4C6			
SUPPLY CIRCUIT BATTERY RESERVE	SD-81587-01	4A6			
POSITIVE 48V RECTIFIER AND 10V AC SUPPLY	SD-81574-01	4A7			
NEGATIVE 48V RECTIFIER NO. 1 & 2	SD-81581-01	4B7, 4C7			
NEGATIVE 48V RECTIFIER NO. 3, 4 & 5	SD-81582-01	4D7, 4E7, 4F7			
NEGATIVE 48V RECTIFIER NO. 6	SD-81583-01	4G7			
REGISTER					
ORIGINATING	SD-66744-01	1C7, 3C0			

(1) SHOWN ON "B" SHEETS

PBX SYSTEMS
NO. 757A
KEY SHEET

SD-66743-01-A2

BELL TELEPHONE LABORATORIES
INCORPORATED

65

PRINTED IN U.S.A.

CONNECTING CIRCUITS INDICATED BY REFERENCE NUMBERS AT CIRCUIT BLOCKS				CONNECTING CIRCUITS INDICATED BY REFERENCE NUMBERS AT CIRCUIT BLOCKS			
REF NO.	DWG NO. IN BLOCK (1)	TITLE	DWG NO.	REF NO.	DWG NO. IN BLOCK (1)	TITLE	DWG NO.
1.	SD-66733-01 (105)	MESSAGE WAITING SERVICE KEY, INTERRUPTER AND POWER SUPPLY DIAL LONG LINE TO DR20 PPS REPEATING FOR PBX STATION LINES OR PBX. MANUALLY SELECTED TRUNKS DIAL CENTRAL OFFICE OR PBX DIAL LONG LINE 10PPS REPEATING FOR LONG PBX STATION LINES. VOLTAGE RANGE 32-45V OR 44-52V DIAL LONG LINE COMPOSITE SIGNALLING TYPE B. TYPE B TALK BATTERY SUPPLY FOR PBX STATION LINES WITH OR WITHOUT TELEPHONE REPEATER	SD-65784-01 SD-96555-01 SD-66060-01 SD-96252-01	9.	SD-66897-01 (205)	4-WIRE TERM SET V4 TELEPHONE REPEATER 608A PBX LAMP RELAY 608A PBX AUXILIARY SIG. FA, BCO, AND MISC 608A JACK	SD-97138-01 SD-97047-01 SD-66724-01 SD-66722-01 SD-65788-01
2.	SD-66749-01 (301)	LONG TRUNK REPEATS RINGING WITH RERING FEATURE LONG TRUNK OUTGOING AUTOMATIC LONG TRUNK FOR USE WITH DIAL AND MANUALLY SELECTED TRUNKS MANUAL OR DIAL LONG TRUNK CIRCUIT REPEATS RINGING OR DIAL PULSES WITH RERING 40-65 VOLTS LONG TRUNK CIRCUIT FOR DIAL SELECTED TRUNKS FOR USE AT TERMINATING OFFICE	SD-66474-01 SD-66275-01 SD-66192-01 SD-66474-01 SD-96371-01	10.	SD-66876-01 (2F5)	608A PBX LAMP RELAY 608A PBX AUXILIARY SIG. FA, BCO, AND MISC 608A JACK	SD-66724-01 SD-66722-01 SD-65788-01
3.	SD-66734-01 (100)	EXTENSION ALARM	SD-95484-01	11.	SD-66750-01 (2H5, 3E1)	608A PBX LAMP RELAY 608A PBX AUXILIARY SIG. FA, BCO, AND MISC 608A JACK LONG TRUNK REPEATS RINGING WITH RERING FEATURE LONG TRUNK OUTGOING AUTOMATIC LONG TRUNK FOR USE WITH DIAL AND MANUALLY SELECTED TRUNKS MANUAL OR DIAL LONG TRUNK CIRCUIT REPEATS RINGING OR DIAL PULSES WITH RERING 40-65 VOLTS LONG TRUNK CIRCUIT FOR DIAL SELECTED TRUNKS FOR USE AT TERMINATING OFFICE	SD-66726-01 SD-66722-01 SD-65788-01 SD-66274-01 SD-66275-01 SD-66192-01 SD-66474-01 SD-96371-01
4.	SD-66744-01 (1C7)	TOUCH-TONE CALLING RECEIVER	SD-95287-01	12.	SD-67006-01 (3F1)	TOLL SUBSCRIBERS LINE	SD-56501-01
5.	SD-66761-01 (2H1)	TRANSISTORIZED CONFERENCE CIRCUIT	SD-96595-01	13.	SD-1E002-01 (3C1)	LONG TRUNK REPEATS RINGING WITH RERING FEATURE LONG TRUNK OUTGOING AUTOMATIC LONG TRUNK FOR USE WITH DIAL AND MANUALLY SELECTED TRUNKS MANUAL OR DIAL LONG TRUNK CIRCUIT REPEATS RINGING OR DIAL PULSES WITH RERING 40-65 VOLTS LONG TRUNK CIRCUIT FOR DIAL SELECTED TRUNKS FOR USE AT TERMINATING OFFICE	SD-66474-01 SD-66275-01 SD-66192-01 SD-66474-01 SD-96371-01
6.	SD-66763-01 (2C1)	RECORDED TELEPHONE DICTATION TRUNK	SD-63788-01	14.	SD-66736-01 (105)	TELEPHONE CIRCUIT	SD-67001-01
7.	SD-66764-01 (201)	3A CODE CALL	SD-66610-01				
8.	SD-66765-01 (2A1)	TIE TRUNK OUTGOING DIAL SELECTED AND DIAL REPEATING, INCOMING PULSE CORRECTING WITH OR WITHOUT E AND M LEADS SUPERVISION TIE TRUNK OUTGOING DIAL SELECTED, INCOMING DIAL PULSE REVERSE BATTERY SUPERVISION TIE TRUNK OUTGOING DIAL REPEATING, INCOMING DIAL PULSE TIE TRUNK OUTGOING DIAL REPEATING, INCOMING DIAL PULSE	SD-65718-01 SD-65755-01 SD-65535-01 SD-65531-01				

(1) SHOWN ON "B" SHEETS

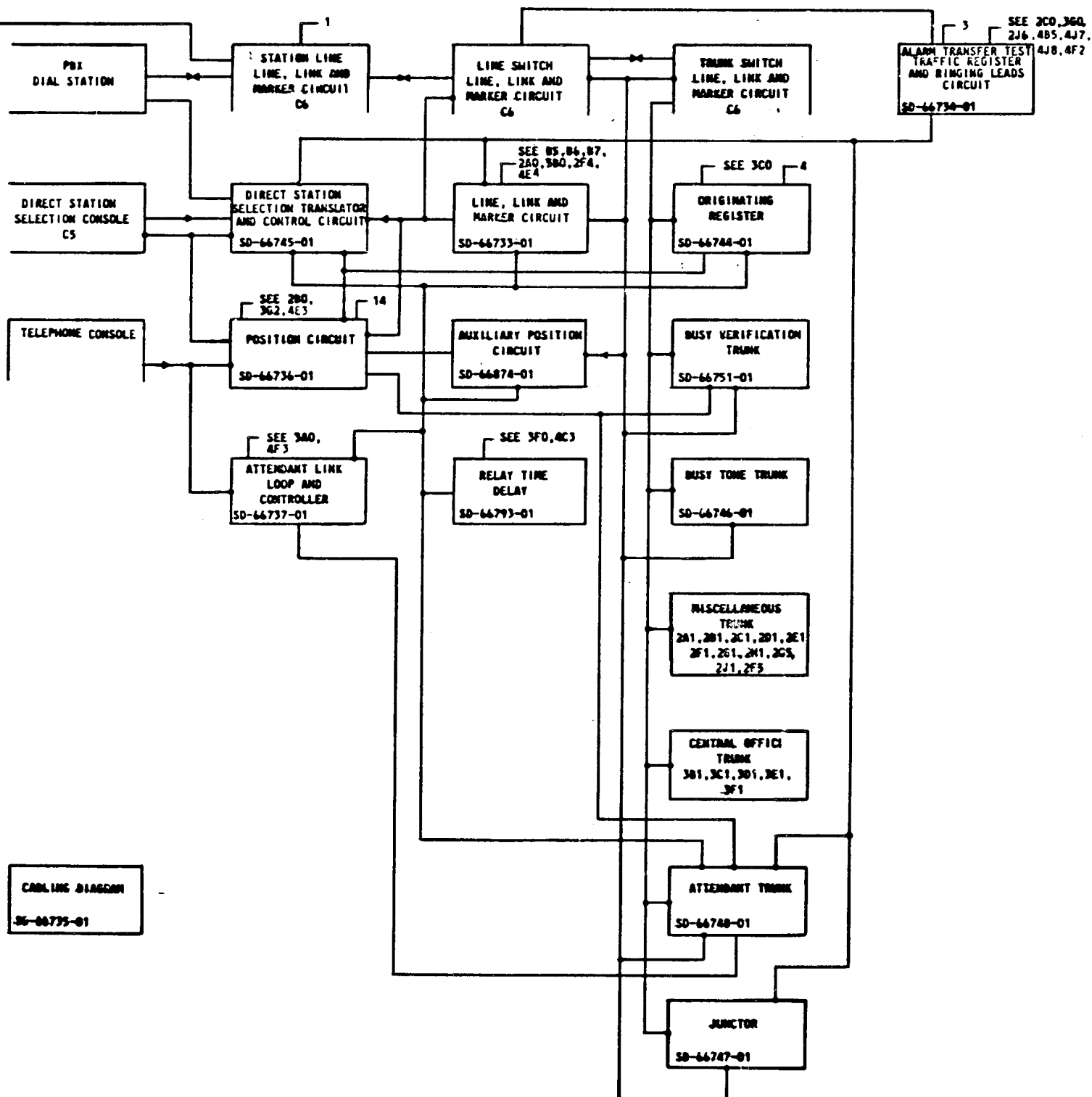
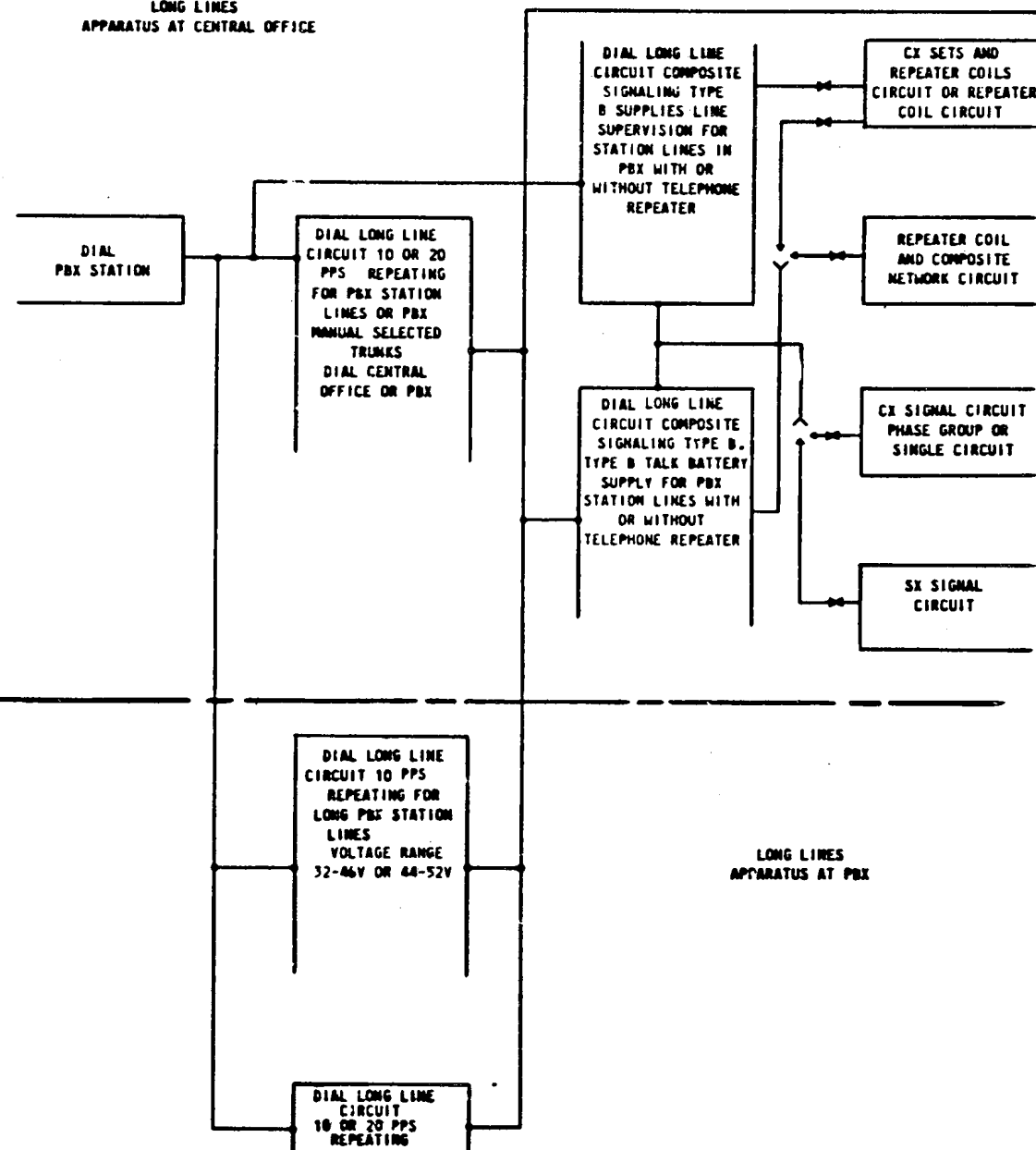
PBX SYSTEMS
NO. 757A
KEY SHEETBELL TELEPHONE LABORATORIES
INCORPORATED

SD-66743-01-A3

SD-66743-01-B1

A
B
C
D
E
F
G
H
J

LONG LINES
APPARATUS AT CENTRAL OFFICE



DRAWING
ISSUE
1
LAL
WTH
PD

A
B
C
D
E
F
G
H
J

LONG LINES FOR USE WITH DIAL STATION

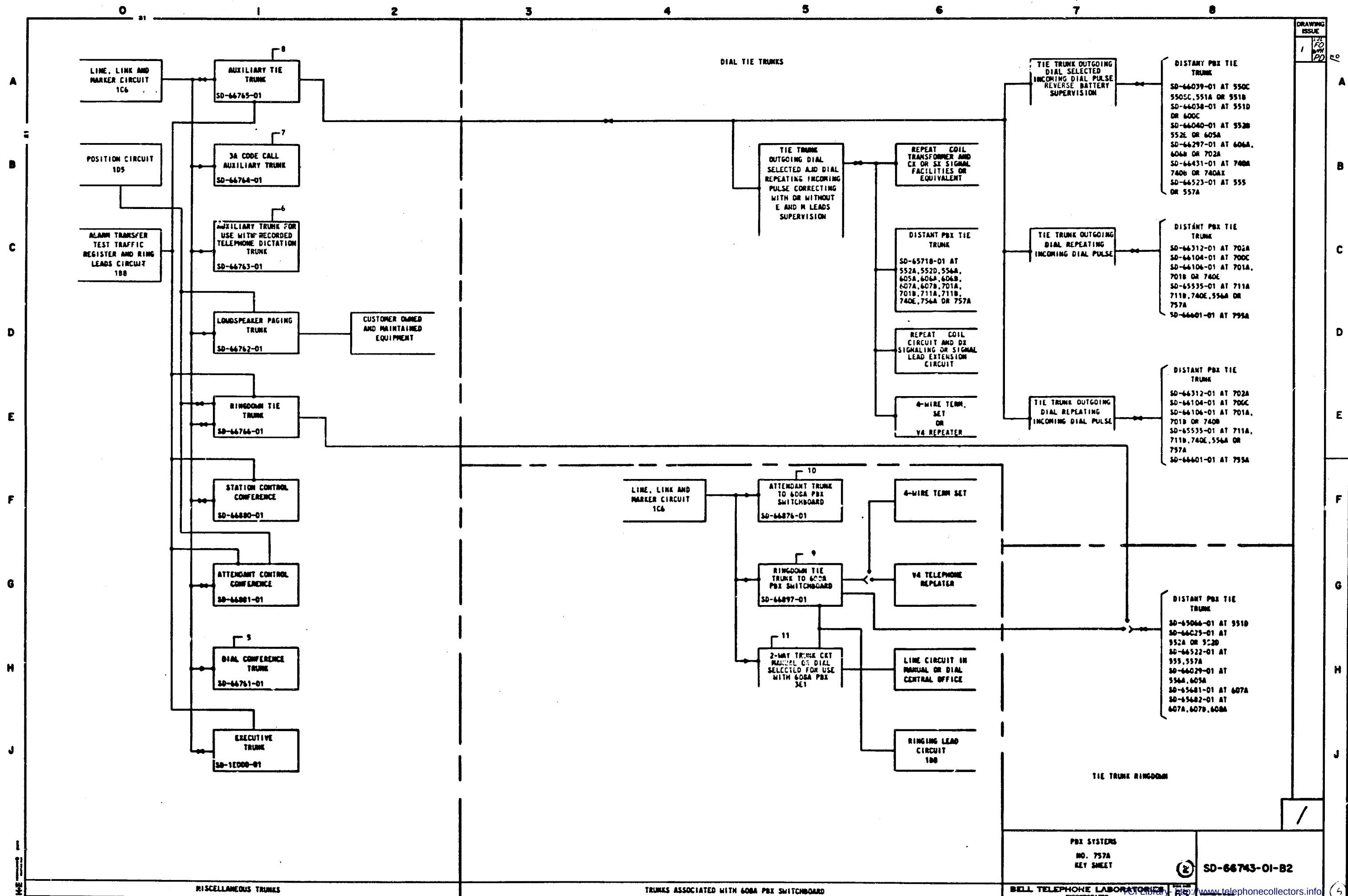
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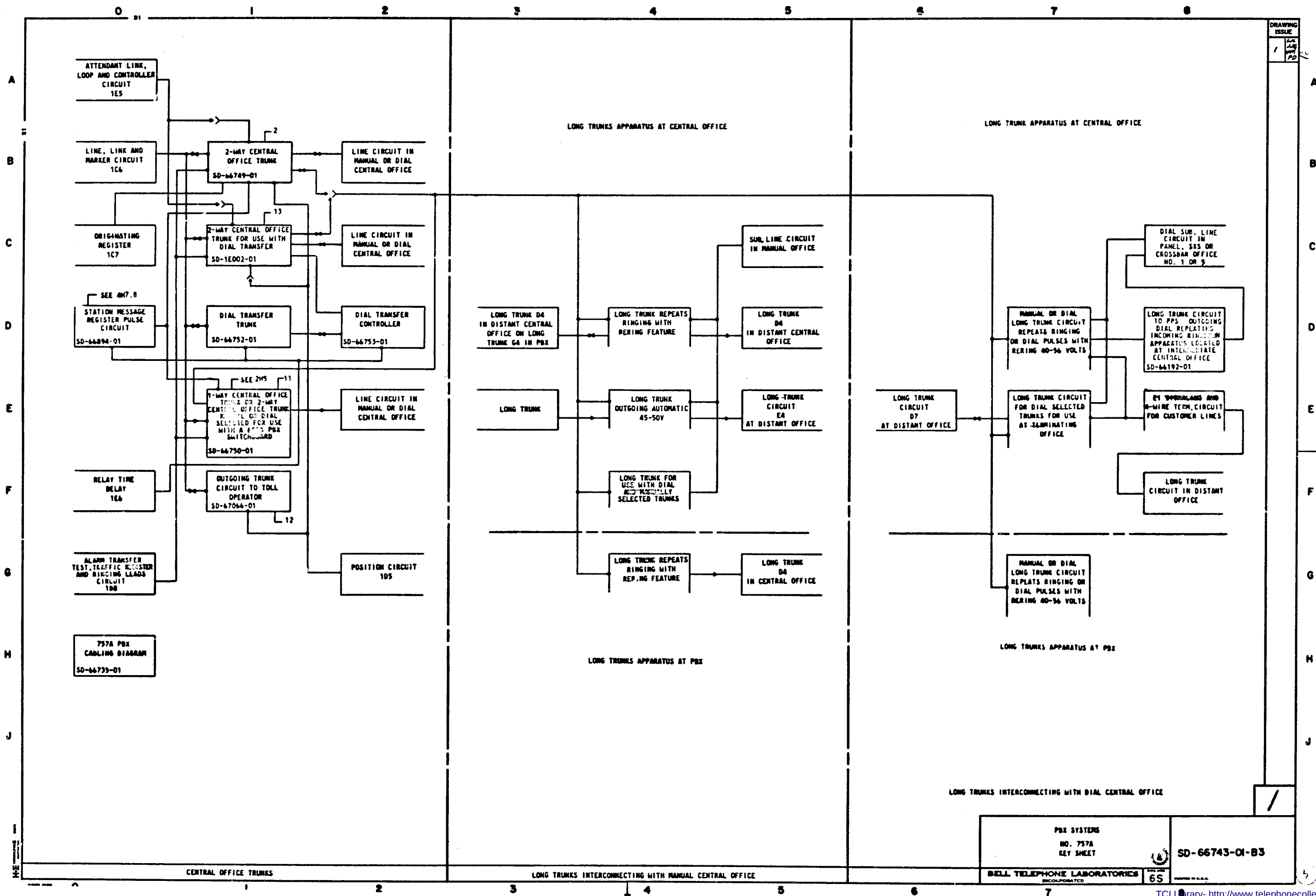
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NO. 757A
K&L SHEET

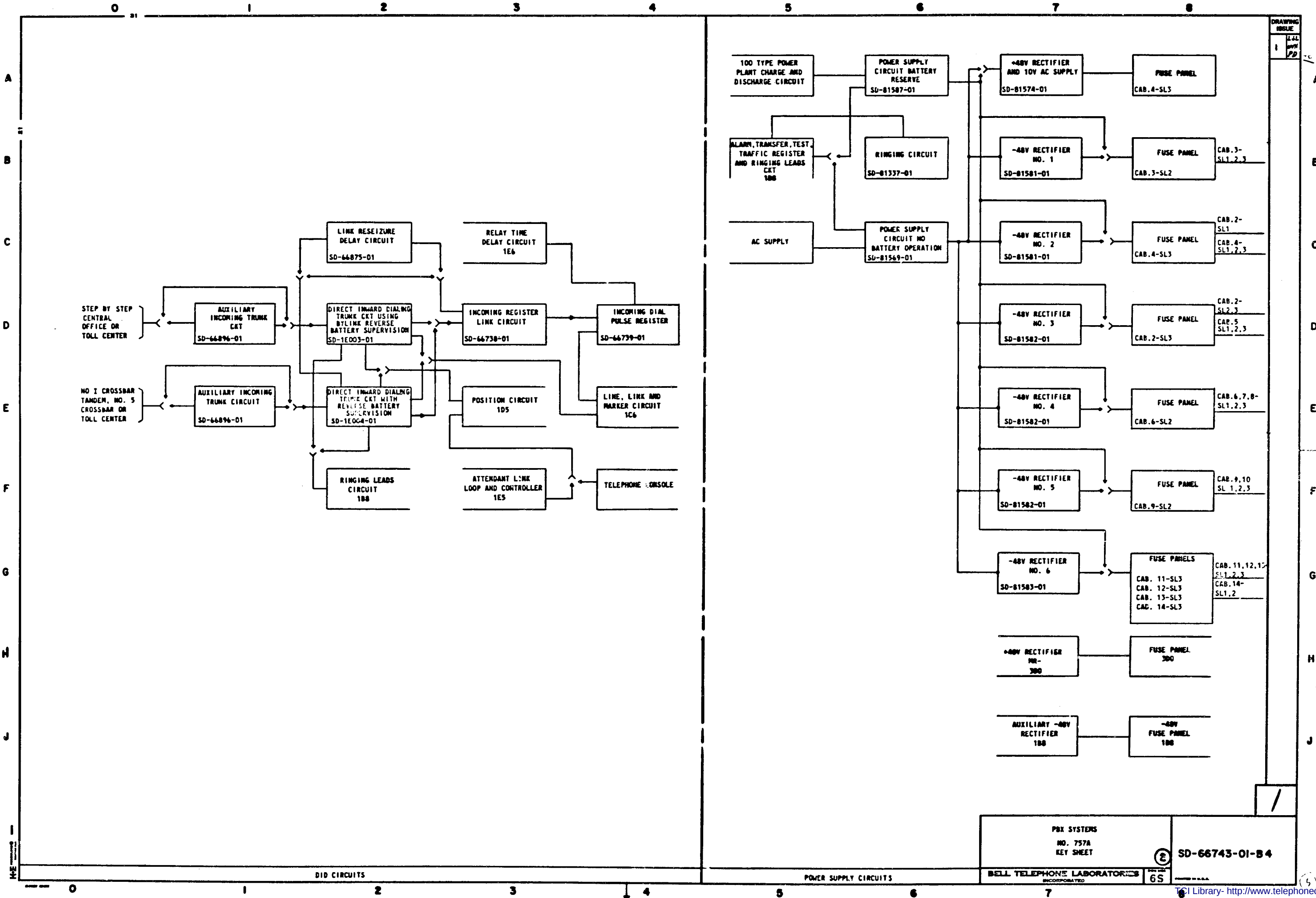
BELL TELEPHONE LABORATORIES
INCORPORATED

2
6S

SD-66743-01-B1

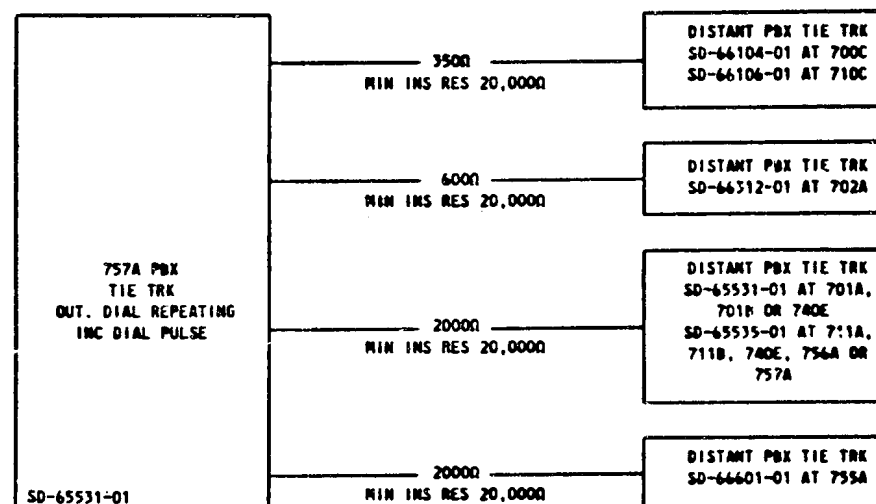
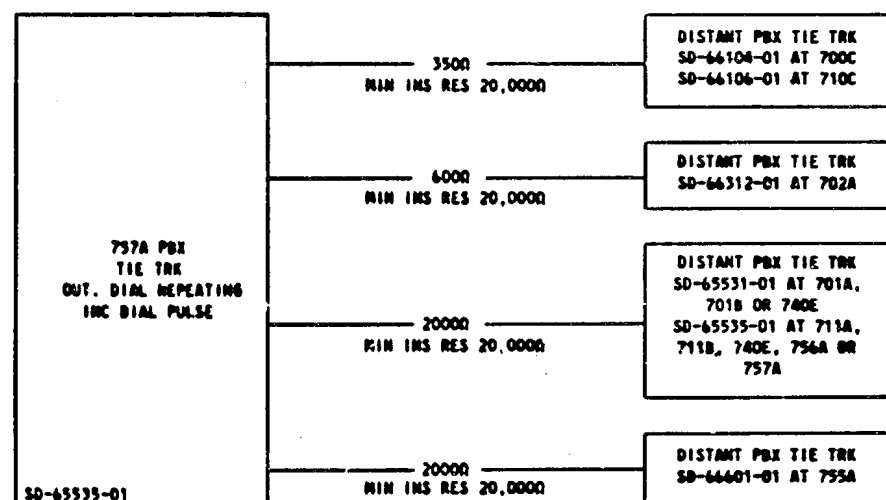
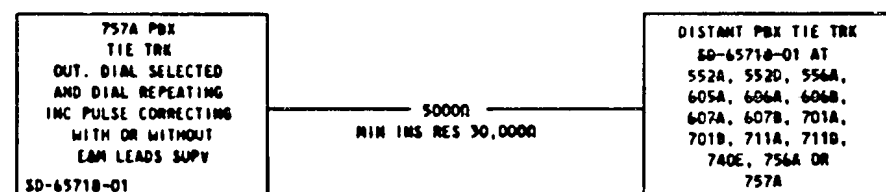
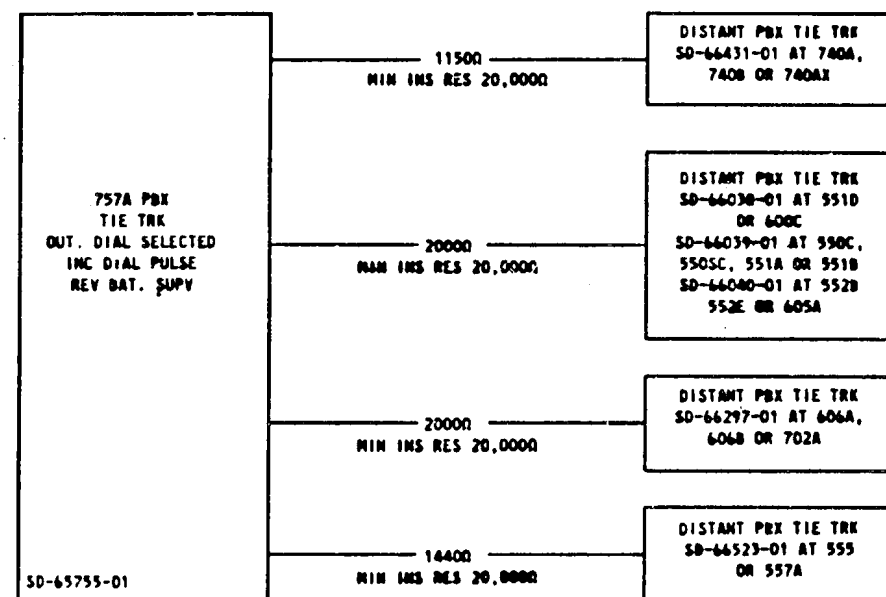






DRAWING
ISSUE
1
L.S.L.
M.W.
P.D.

RANGE CHART



NOTES:

- ALL TIE TRK RANGES SHOWN ON THE RANGE CHART INCLUDE THE RESISTANCE OF THE OUTSIDE CABLING, THE WIRING AT THE PBX AND THE HEAT COILS. THE RESISTANCE OF THE PBX APPARATUS IS NOT INCLUDED. VALUES ARE SHOWN IN TERMS OF CONDUCTOR LOOP BETWEEN PBX.