

5D2811-01

DWG ISSUE	CD ISSUE	DATE ISSUED	DRAWN	APPROVED
1	1	8-8-75	CDI DP	JT RBC THJ
2B	APP 1B	3-29-76	CDI LR	JT RBC THJ
3A	APP 2A	3-29-76	CDI LR	JT RBC THJ
4AR	2AR	4-18-77	CDI PEC	JT RBC ACA
5B	2AR 1B	4-18-77	CDI PEC	JT RBC ACA
6A	2AR APP 4A	11-15-77	CDI CDI	JT RBC ACA

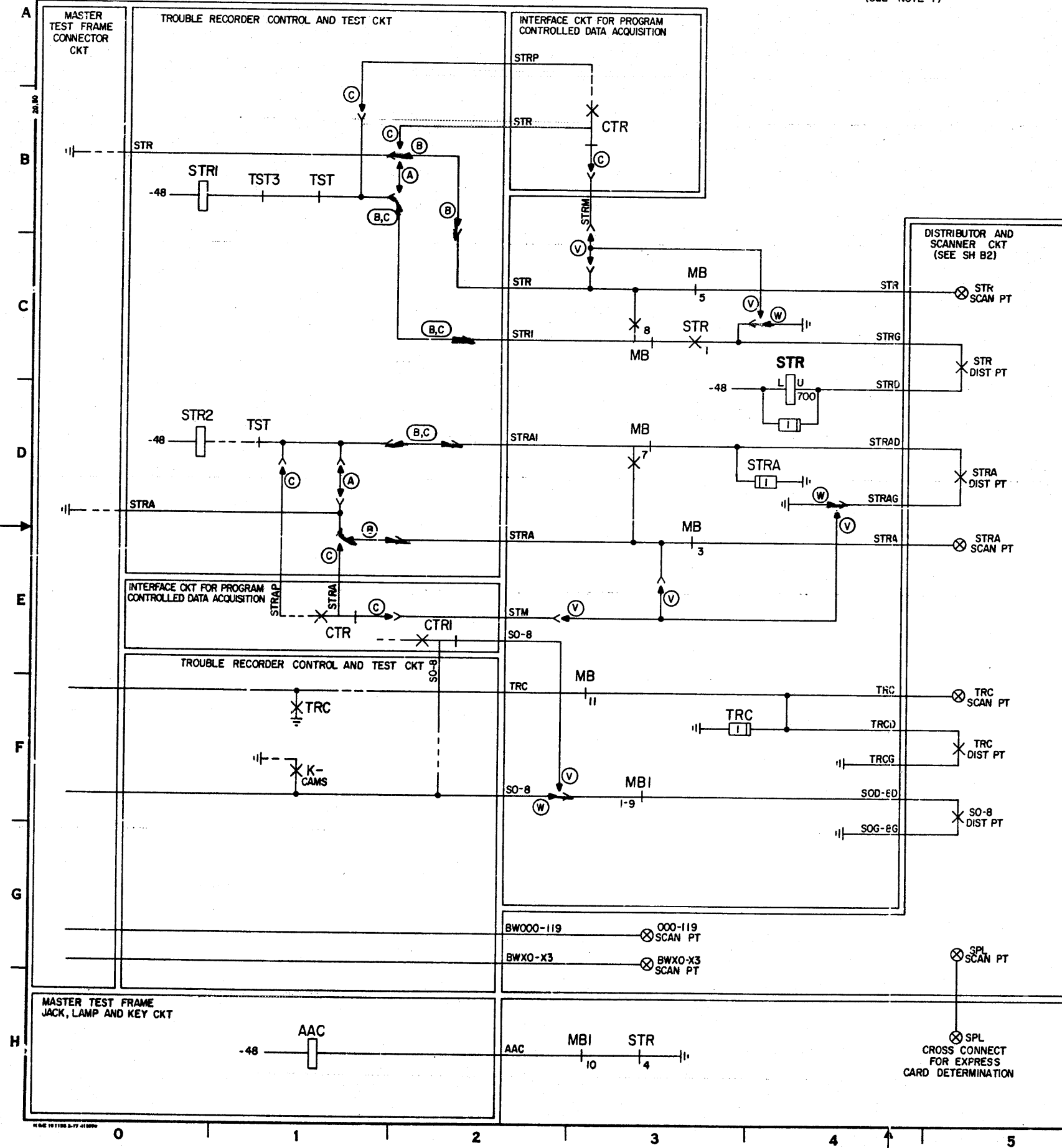
[illegible][illegible]

KSHEETS WITH SUFFIX LETTER A WERE FORMERLY WITHOUT A SUFFIX LETTER.

SHEET INDEX NOTES		SUPPORTING INFORMATION	
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.	CATEGORY	NO.	
	EQUIPMENT DRAWINGS	J23252CR ED-94957-10	NOTICE- NOT FOR USE OR DISCLOSURE OUTSIDE THE BELL SYSTEM EXCEPT UNDER WRITTEN AGREEMENT.
	EQUIPMENT DESIG REQ	J23252	IC02 CROSSBAR SYSTEMS NO.5 MAINTENANCE DATA TRANSMITTER CIRCUIT
	MAINTENANCE BSP		AT&TCO STANDARD SD-28111-01-A1 16 SHEETS
			BELL TELEPHONE LABORATORIES INCORPORATED 65

[illegible]

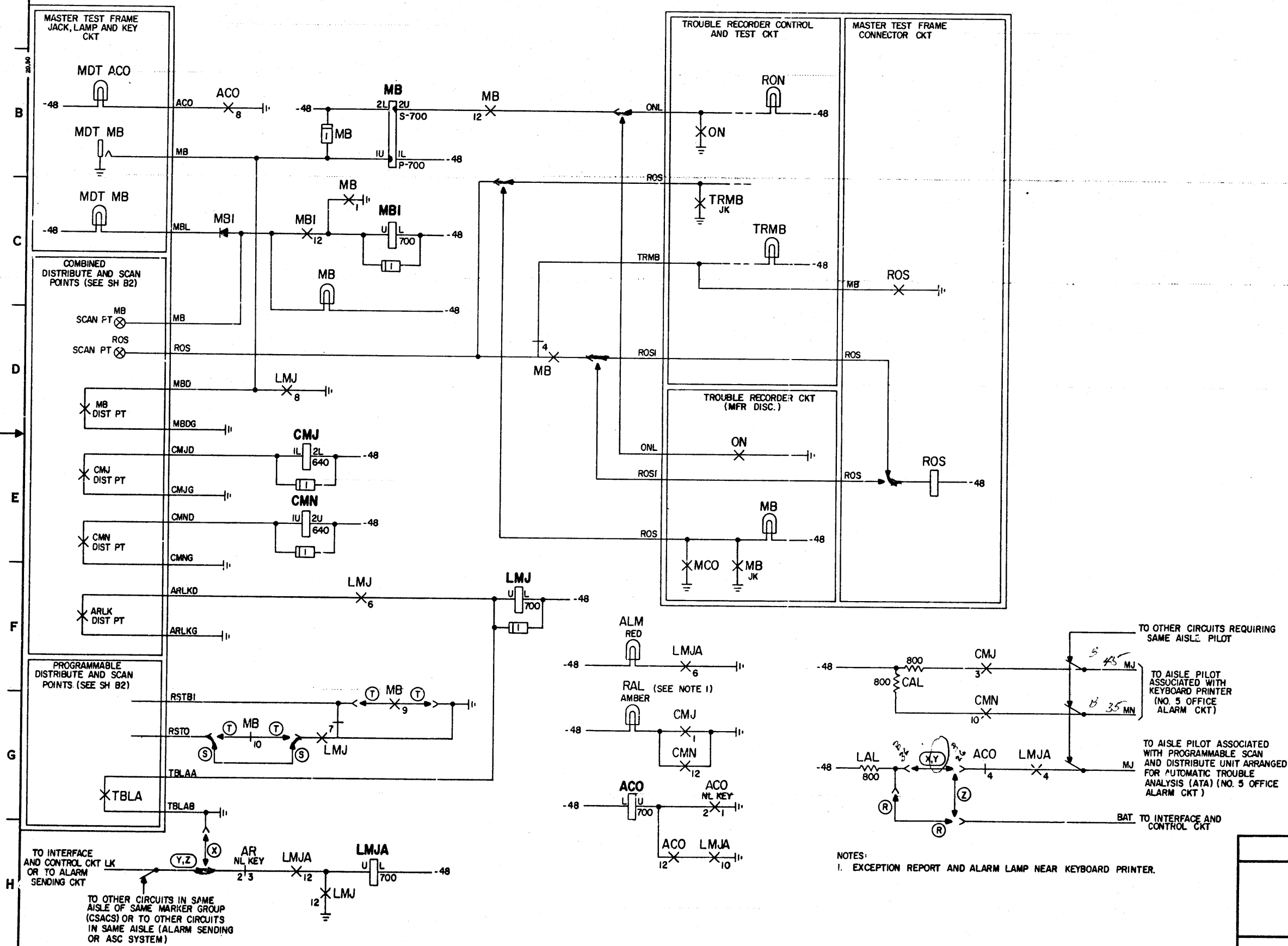
FS I INTERFACE CKT (SEE NOTE 1)



NOTES:
1. OPTION A - NEITHER MDT CKT NOR INTERFACE FOR DATA ACQUISITION CKT PROVIDED
OPTION B - MDT CKT ONLY PROVIDED
OPTION C - INTERFACE CKT OR BOTH INTERFACE CKT AND MDT CKT PROVIDED

MAINTENANCE DATA TRANSMITTER			
		DWG SIZE 65	ISSUE 6A
BELL LABORATORIES	SD-28111-01-		BIA

FS 2 ALARM AND MAKE BUSY



NOTES:
1. EXCEPTION REPORT AND ALARM LAMP NEAR KEYBOARD PRINTER.

MAINTENANCE DATA TRANSMITTER		DWG SIZE	ISSUE
		65	6A
BELL LABORATORIES	SD-28111-01-		BIB

FS 3

DISTRIBUTE AND SCAN POINT ASSIGNMENTS

STATUS AND DATA SCANNER ASSIGNMENTS (SEE NOTES 1,3,4,6)

ROW	DISP	BIT NUMBER										
		9	8	7	6	5	4	3	2	1	0	
15	17	A										CONN CKT
		B										LEAD DESIG
14	16	A										CONN CKT
		B										LEAD DESIG
13	15	A										CONN CKT
		B										LEAD DESIG
12	14	A										CONN CKT
		B										LEAD DESIG
11	13	A										CONN CKT
		B										LEAD DESIG
10	12	A										CONN CKT
		B										LEAD DESIG
9	11	A										CONN CKT
		B										LEAD DESIG
8	10	A										CONN CKT
		B										LEAD DESIG
7	07	A										CONN CKT
		B										LEAD DESIG
6	06	A										CONN CKT
		B										LEAD DESIG
5	05	A										CONN CKT
		B										LEAD DESIG
4	04	A										CONN CKT
		B										LEAD DESIG
3	03	A										CONN CKT
		B										LEAD DESIG
2	02	C										CONN CKT
		B										LEAD DESIG
1	01	D										CONN CKT
		B										LEAD DESIG
0	00	B										CONN CKT
		B										LEAD DESIG

ALARM AND CONTROL DISTRIBUTOR ASSIGNMENTS (SEE NOTES 1,2,5,6)

ROW	DISP	BIT NUMBER							
		5	4	3	2	1	0		
3	03	A							CONN CKT
		B							PAIR DESIG
2	02	B							CONN CKT
		C							PAIR DESIG
1	01	B							CONN CKT
		A							PAIR DESIG
0	00	A							CONN CKT
		B							PAIR DESIG

NOTES:

- CONNECTING CIRCUITS ARE AS FOLLOWS:
 (A) - UNASSIGNED SCAN AND DISTRIBUTE POINTS
 (B) - TROUBLE RECORDER CONTROL AND TEST CKT
 (C) - MAINTENANCE DATA TRANSMITTER CKT
 (D) - MASTER TEST FRAME CONNECTOR CKT
- PAIR DESIG SIGNIFICANCE:
 CMJ - CENTRAL ORIGINATED MAJOR ALARM
 CMN - CENTRAL ORIGINATED MINOR ALARM
 MB - MAKE BUSY
 SO-B - SCAN RELAYS
 STR - START (REGULAR)
 STRA - START (AUXILIARY)
 TRC - TROUBLE RECORD COMPLETE
- SCAN POINT DESIG SIGNIFICANCE:
 MB - MAKE BUSY
 SPL - SPECIAL (EXPRESS CARD)
 STR - START LEAD (REGULAR)
 STRA - START LEAD (AUXILIARY)
 TRC - TROUBLE RECORD COMPLETE

- SCAN POINTS HAVING NUMERICAL DESIGNATIONS ONLY, CONNECT TO THE CORRESPONDING BW--- LEADS OF THE TROUBLE RECORDER CONTROL AND TEST CKT.
- THE GROUND RETURN LEAD DESIGNATION HAS A SUFFIX G AS SHOWN IN THE CADS.
- SCAN AND DISTRIBUTE POINTS ARE LOCATED IN CIRCUIT PACKS OF THE SCANNER DISTRIBUTOR UNIT AS SHOWN BELOW. BIT NUMBERS ARE ASSOCIATED WITH: SCAN AND DISTRIBUTE DESIGNATIONS IN FS 3.

CIRCUIT PACK LOCATIONS															
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
BITS	BITS	BITS	BITS	BITS	BITS	BITS	BITS	BITS	BITS	BITS	BITS	BITS	BITS	BITS	BITS
0	1	2	3	4	5	6	7	8	9						
A1068 SCAN PACKS								A1074 DISTRIBUTOR PACKS							

ISSUE
4AR

MAINTENANCE DATA
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SD-28III-01-B2

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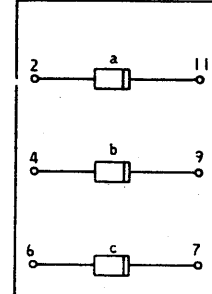
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APP FIG. 1

RELAY																		RELAY																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
DESIG	ACO		CMJ		CMN		LMJ		LMJA		MB		MBI		STR				DESIG															DESIG																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													</	

COMPONENT ASSEMBLY

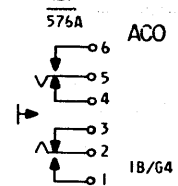


DESIG	CAO
CODE	ED-94823-(),G428
OPTION	
COMPONENT	DESIG LOC CODE
a	STR 1A/C4
h	STRA 1A/D4
c	TRC 1A/F3
NETWORK	185A

DIODE

OPT	DESIG	LOC	CODE
	MBI	1B/C1	426F

KEY



ACO

AR

1B/H1

1B/G4

LAMP

OPT	DESIG	LOC	CODE
	ALM	1B/F3	2Y(RED)
	MB	1B/C1	2Y
	RAL	1B/G3	M1(AMBER)

NETWORK

OPT	DESIG	LOC	CODE
	CMJ	1B/E1	
	CMN	1B/E1	
	LMJ	1B/F3	
	MB	1B/B2	
	MBI	1B/C2	185A

RESISTOR

OPT	DESIG	LOC	CODE
	CAL	1B/F5	19EW
	LAL	1B/G5	18CN

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TRANSMITTER

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CIRCUIT NOTES:

DESIG	FUSE AMP	POTENTIAL	ONE PER
A	1 1/3	-48 TALK	CKT
BATTERY SYMBOL		VOLTAGE RANGE	

FEATURE OR OPTION		PROVIDE		
		APP FIG.	APP OR WRG	QUANTITY
MAINTENANCE DATA TRANSMITTER CIRCUIT		I		1 PER CKT
OFFICE ARRANGED FOR PROGRAM CONTROLLED DATA ACQUISITION		YES	V	
		NO	W	
ALARM CONNECTION	CSACS ONLY		Z	
	ALARM SENDING ONLY		Y	
	TASC		R, Y	
	NONE OF THE ABOVE		X	

NETWORK VALUES		
NETWORK NO.	RESISTANCE IN OHMS	CAPACITANCE IN uF
I	470	0.11

RECORD OF APP FIGURES, WIRING, AND APPARATUS CHANGES						
CHANGED ON ISS	IF JOB RECORDS DO NOT SPECIFY	THIS OPTION WAS FURN	SEE NOTE	USE IN CIRCUIT		
				STD	A&M	MD
2B	V OR W	W	102, 107	V, W		
	S OR T	T	108	S		T
5B	R	X, Y OR Z	102, 110, 111	R, X, Y, Z		

CIRCUIT NOTES:

105. NOTE CANCELLED ISSUE 5B.

106. IN ADDITION TO SD-28111-01, A PROGRAMMABLE SCANNER DISTRIBUTOR (PSD), SD-94844-31, MUST BE PROVIDED WITH THE FOLLOWING APPARATUS AND OPTIONS.
- QUAN
- 1 APP FIG. 1; OPTION W; BASIC PSD WITH COMBINED SCANNER/DISTRIBUTOR
- 1 APP FIG. 2; RANDOM ACCESS MEMORY, 1024 WORDS (8 BITS & PTY) DESIGNATED RAM O AND PROVIDED IN EQUIPMENT LOCATION 02-24
- APP FIG. 3; OPTION Y; DATA CHANNELS WITH OPTIONS AS FOLLOWS:
- OPTION Q; 300 BAUD, DATA CHANNEL 0 (FOR PRIMARY DATA CHANNEL)
- OPTION R; 300 BAUD, DATA CHANNEL 1 (FOR SECONDARY DATA CHANNEL)
- OPTION S; 300 BAUD, DATA CHANNEL 2 (FOR KEYBOARD PRINTER CHANNEL)

THE PROGRAMMABLE CONTROLLER (PROCON) WITHIN THE PSD SHALL BE PROGRAMMED WITH PK-AA32.

107. WHEN OPTION V IS ADDED BY FIELD MODIFICATION, OPTION W MUST BE REMOVED.
108. OPTION S PROVIDES MULTIPLE AUTOMATIC PROGRAM REINITIALIZATIONS IN RESPONSE TO MD-DETECTED TROUBLES. WHEN OPTION S IS ADDED BY FIELD MODIFICATION, OPTION T MUST BE REMOVED.
109. ON ISSUE 4AR, PROGRAM STORE PK-AA32 REPLACES PK-AA31 WHICH IS RATED "MFR DISC".
110. PRIOR TO ISSUE 5B, OPTIONS X, Y, AND Z WERE NON-RECORD OPTIONS.
111. OPTION R PROVIDES A MAJOR OFFICE ALARM IN ADDITION TO THE UNIQUE ALARM INDICATION WHEN THIS CIRCUIT IS CONNECTED TO AN INTERFACE AND CONTROL CIRCUIT FOR THE TASC SYSTEM.

EQUIPMENT NOTES:

201. THE RESISTANCE OF LEADS 50 TO 58 BETWEEN THE MDT AND THE SCANNING RELAYS OF THE MASTER TEST FRAME CONNECTOR MUST NOT EXCEED 10 OHMS.
202. THE CENTRAL OFFICE MOUNTED EQUIPMENT REQUIRED FOR AUTOMATIC TROUBLE ANALYSIS CONSISTS OF ONE J23252CR-() ATA - INTERFACE UNIT AND ONE J99379B-() COMBINED SCAN/DISTRIBUTE PSD. J99379B-() MUST BE PROVIDED IN ACCORDANCE WITH THE FOLLOWING:

QUAN	CODE	DESCRIPTION
1	J99379B, L1	COMMON SYSTEMS PROGRAMMABLE SCANNER DISTRIBUTOR UNIT WITH 160 SCAN AND 24 DISTRIBUTE POINTS.
1	J99379B, L2A	RANDOM ACCESS MEMORY, 1024 WORDS BY 8 BITS DESIGNATED RAM J AND PROVIDED IN EQUIPMENT LOCATION 02-24
1	J99379B, L3A	THREE EIA RS-232-C (MUST BE ARRANGED I/O PORTS FOR 300 BAUD OPERATION)
1	J99379B, L3F	
1	J99379B, L3C	
1	16-12 J1C0828, L19	PROGRAMMABLE CONTROLLER PROGRAMMED/PK-AA32
1	J99379B, L4	BRACKETS REQUIRED TO MOUNT PSD ON 23" RELAY RACK

203. SCAN/DISTRIBUTE ADDRESSING AS DEFINED BY NOTE 401 OF SD-94851-01 REQUIRES GROUND STRAPS ON TERMINALS N5 THROUGH N8.
204. THE -48V, TALK OR SIGNAL BATTERY REQUIRED BY THE PSD UNIT, J99379B, IS PROVIDED FROM A 5 AMP FUSE ON THE PRD FRAME. SEE CAD 7.

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INFORMATION NOTES:

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

302. THE KEYBOARD PRINTER TERMINAL IS PROVIDED BY THE OPERATING COMPANY. THIS CONTINUOUS FEED, HARD-COPY UNIT IS REQUIRED TO HAVE OFF-LINE CAPABILITY AND COMPLY WITH UNDER WRITERS LABORATORY STANDARD 478. ADDITIONAL FEATURES AND CHARACTERISTICS REQUIRED ARE LISTED BELOW.

TRANSMISSION TYPE - SERIAL-BY-BIT,
SERIAL-BY-CHARACTER

TRANSMISSION CODE - ASCII 96 CHARACTER SET (UPPER AND LOWER CASE) AND SPECIAL CHARACTERS BEL (OCTAL 07), CAN (OCTAL 30), CR (OCTAL 15), ESC (OCTAL 33) AND LF (OCTAL 12)

TRANSMISSION SPEED - 300 OR 1200 BAUD (300 BAUD WILL BE USED FOR INITIAL OPERATION)

TRANSMISSION MODE - FULL DUPLEX

CODE LEVEL AND UNIT CODE - 30 OR 120 CHAR/SEC 10 BITS PER CHARACTER (1 START, 7 INTELLIGENCE, 1 PARITY, 1 STOP BIT, EVEN PARITY REQUIRED)

COMMUNICATIONS INTERFACE - INTERFACE BETWEEN THE KEYBOARD PRINTER AND THE DATA LINE CONFORMS TO EIA STANDARD RS-232-C

PRINT CHARACTER SET - 96 CHARACTER ASCII

PRINT LINE LENGTH - MINIMUM 80 CHARACTERS

303. FULL DUPLEX DATA SERVICE SHALL BE PROVIDED BY THE OPERATING COMPANY. A DEDICATED (NON-SWITCHED) LINE IS REQUIRED FOR THE PRIMARY DATA CHANNEL. AN OPTIONAL SWITCHED LINE MAY BE PROVIDED FOR A SECONDARY (BACKUP) CHANNEL. THE INITIAL STANDARD TRANSMISSION RATE WILL BE 300 BAUD. DATA SET INTERFACES SHALL BE COMPATIBLE WITH THE SPECIFICATIONS OF EIA STANDARD RS-232-C

THE PRIMARY LINE DATA SET SHALL PROVIDE FOR TESTING FROM THE REMOTE END. EXCEPT WHERE LOCAL PRACTICES CONFLICT, IT IS SUGGESTED THIS SET BE ARRANGED FOR "ANSWER". BELL SYSTEM 108 TYPE DATA SETS ARE REPRESENTATIVE OF SETS WHICH MAY BE USED WITH THE PRIMARY CHANNEL.

THE OPTIONAL BACKUP LINE DATA SET SHALL BE EQUIPPED FOR "AUTO ANSWER". EXCEPT WHERE LOCAL PRACTICES CONFLICT, IT IS SUGGESTED THIS SET BE ARRANGED FOR "RECEIVE". BELL SYSTEM 103A3 DATA SETS ARE REPRESENTATIVE OF SETS WHICH MAY BE USED WITH THE BACKUP CHANNEL.

304. A NULL MODEM (CROSS CONNECT DEVICE) IS REQUIRED TO CONNECT THE KEYBOARD PRINTER AND THE MDT UNLESS DATA SETS ARE USED FOR THIS CONNECTION OR A NULL MODEM CABLE IS PROVIDED. THE NULL MODEM MUST TRANSPOSE THE EIA RS-232-C SIGNALING CIRCUITS BA- (TRANSMITTED DATA) AND BB (RECEIVED DATA) AND PROVIDE STRAIGHT THROUGH CONNECTIONS FOR CIRCUITS AA (PROTECTIVE GROUND) AND AB (SIGNAL GROUND). THE NULL MODEM MUST ALSO CONNECT THE RS-232-C SIGNALING CIRCUITS LISTED BELOW TO PROVIDE THE CONTROL CONDITIONS REQUIRED BY THE MDT.

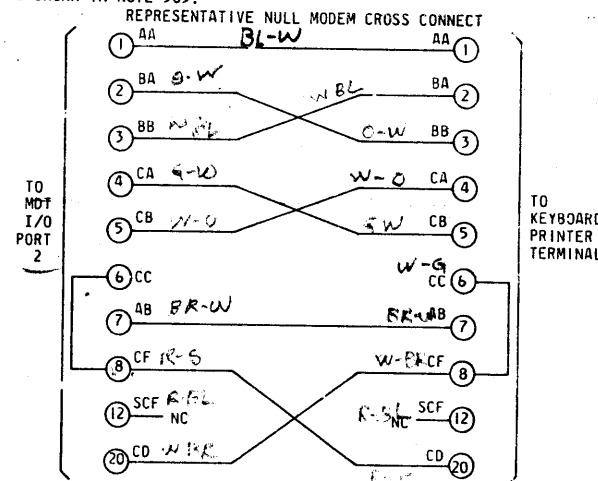
CIRCUIT DESIGNATION	RS-232-C DEFINED CONDITION REQUIRED
CB (CLEAR TO SEND)	ON (POSITIVE)
CC (DATA SET READY)	ON (POSITIVE)
CF (RECEIVED LINE SIGNAL DETECTOR)	ON (POSITIVE)

NULL MODEM CONNECTIONS MUST ALSO BE PROVIDED AS REQUIRED FOR THE TYPE OF KEYBOARD PRINTER USED. THE MDT PROVIDES THE RS-232-C CONDITIONS LISTED BELOW FOR CONTROL OF THE KEYBOARD PRINTER.

CIRCUIT DESIGNATION	RS-232-C DEFINED CONDITION
CA (REQUEST TO SEND)	ON (POSITIVE)
CD (DATA TERMINAL READY)	ON (POSITIVE)

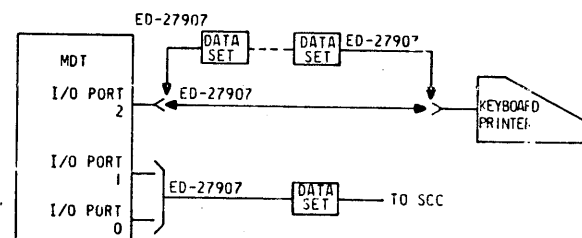
A NULL MODEM CROSS CONNECT SUITABLE FOR USE WITH A TYPICAL KEYBOARD PRINTER SUCH AS THE TELETYPE CORPORATION MODEL 43KSR TELEPRINTER CODE 4320.AAC IS SHOWN BELOW. SEE NOTE 309 FOR SPECIFICATIONS AND ALTERNATIVE VENDOR UNITS.

EIA RS-232-C COMPATIBLE CONNECTORS CAN BE WIRED FOR THIS PURPOSE OR A SUITABLE NULL MODEM CABLE AS DEFINED BY ED-27907 CAN BE USED AS SHOWN IN NOTE 305.



THESE SIGNALING CIRCUITS CONNECTIONS CORRESPOND TO NULL MODEM CABLE ED-27907 GROUP 1.

305. MDT CABLING ARRANGEMENTS. LENGTH OF CABLE MUST BE SPECIFIED BY TELEPHONE COMPANY. MAXIMUM CABLE LENGTH IS 200 FEET.



306. OPTION V, SHOWN IN THE PROGRAMMABLE SCANNER DISTRIBUTOR CIRCUIT SD-94844-01 SHALL NOT BE PROVIDED WHEN THAT CIRCUIT IS CONNECTED TO THE MAINTENANCE DATA TRANSMITTER CIRCUIT.

307. A -48V TEST PICK SHALL NOT BE USED FOR TESTS OF THE PROGRAMMABLE SCANNER DISTRIBUTOR CIRCUIT. TESTING SHALL BE DONE BY MEANS OF VOLTAGE MEASUREMENT ONLY.

308. THE MAINTENANCE DATA TRANSMITTER CIRCUIT IS NOT COMPATIBLE WITH NO. 5 CROSSBAR OFFICES EQUIPPED WITH THE NO. 5 ELECTRONIC TRANSLATOR SYSTEM.

309. THE TELETYPE CORPORATION MODEL 43KSR TELEPRINTER CODE 4320.AAC IS A TYPICAL KEYBOARD PRINTER UNIT FOR USE WITH THE MDT. THIS UNIT SHOULD BE ORDERED WITH THE OPTIONAL TELETYPE CORPORATION MODEL 40 PEDESTAL (USOC 4TMAA) AND THE MODEL 40 FORM ACCUMULATOR SHELF (USOC 4TMOO).

FEATURES SELECTED BY INTERNAL SWITCHES ARE SPECIFIED AS INDICATED BELOW:

OPTION SPECIFICATION	INTERNAL SWITCH SETTINGS	FUNCTION
431A	SPD4 7 & 8 "ON"	NARROW NUMERIC 0 AND WIDE ALPHA 0
432A	SPD4 5 & 6 "ON"	132 CHARACTER LINE LENGTH
433A	SPD4 4 "OFF"	DISCONNECT ON RECEIPT OF EOT CHARACTER
434A	SPD4 3 "OFF"	EVEN PARITY BIT SET ON SEND
435A	SPD4 1 "OFF"	AUTO CR-LF PERFORMED AT END OF LINE ON RECEIVE

*THE POSITIONS OF UNSPECIFIED FEATURE SWITCHES WILL NOT AFFECT THE DESIRED FEATURES.

SOME ALTERNATIVE KEYBOARD PRINTERS WHICH MAY BE USED WITH THE MDT INCLUDE THE TEXAS INSTRUMENT CORPORATION "SILENT 700", THE GENERAL ELECTRIC CORPORATION "TERMINET 1200", THE DIGITAL EQUIPMENT CORPORATION "LA 36", AND THE COMPUTER TRANSCIVER "EXECUPORT 300". THE NULL MODEM CROSS CONNECT SHOWN IN NOTE 304 IS SUITABLE FOR THESE UNITS. APPROPRIATE NULL MODEM CABLES ARE DEFINED BY DRAWING ED-27907.

CROSS CONNECTING INFORMATION (CONDITION)

PART	CONDITION	CONNECT		CONDITION
		TERM	TO TERM	
1	SCAN POINT FOR SPECIAL EXPRESS CARDS WHERE REQUIRED	SPL		SINGLE GROUND SOURCE TO BE DETECTED

ISSUE
6A

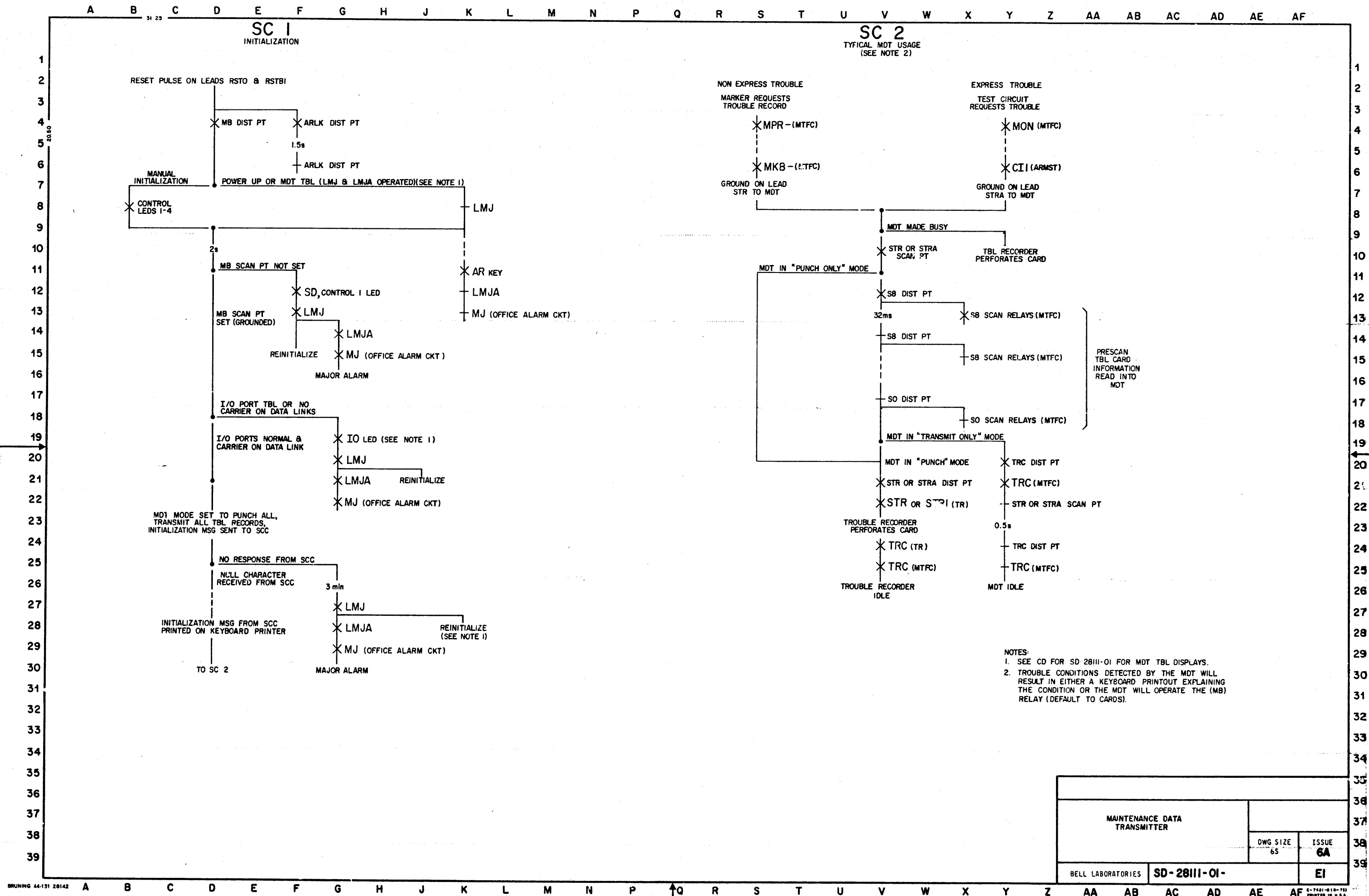
MAINTENANCE DATA
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CIRCUIT REQUIREMENTS

APPARATUS				MECH REQ			CIRCUIT PREPARATION			TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQ					REMARKS
DESIG	CODE	OPT	FIG.	BSP FIG.	CONT PRES	ARM. TRVL	BLOCK OR INSULATE	TEST CLIP DATA				TEST WDG	TEST FOR	AFTER SOAK mA	TEST mA	READJ mA	
ACO	AJ15		I		249				U(ACO)	GRD		0		43	40.5		
CMJ	1/2AK22		I		216		3(CMJ)		1L(CMJ)	GRD		0		29	26	MOUNTED WITH CMN	
CMN	1/2AK22		I		216		10(CMN)		1U(CMN)	GRD		0		29	26	MOUNTED WITH CMJ	
LMJ	AJ15		I		249		6(LMJ)		U(LMJ)	GRD		0		45	40.5		
LMJA	AJ15		I		249		4, 12(LMJA)		U(LMJA)	GRD		0		45	40.5		
MB	AJ122		I		249		12(MB)		1U(MB)	GRD		P	C	32.5	29.5		
									2U(MB)	GRD		S	0	34.5	31		
MB1	AJ15		I		249				U(MB1)	GRD		0		43	40.5		
STR	AJ15		I		249				U(STR)	GRD		0		43	40.5		

CIRCUIT REQUIREMENTS

APPARATUS				MECH REQ			CIRCUIT PREPARATION			TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQ					REMARKS
DESIG	CODE	OPT	FIG.	BSP FIG.	CONT PRES	ARM. TRVL	BLOCK OR INSULATE	TEST CLIP DATA				TEST WDG	TEST FOR	AFTER SOAK mA	TEST mA	READJ mA	

3A

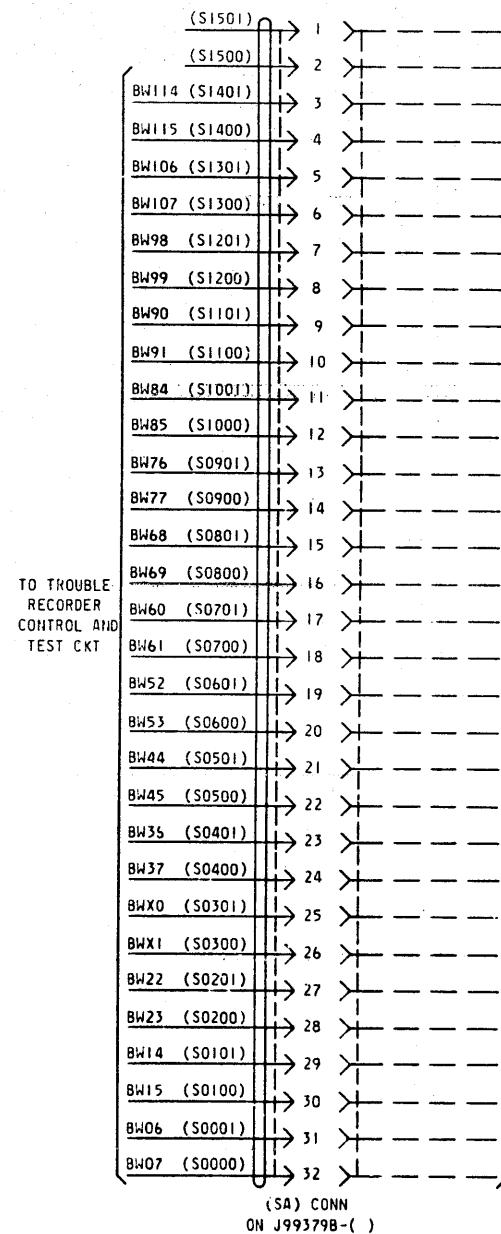
MAINTENANCE DATA
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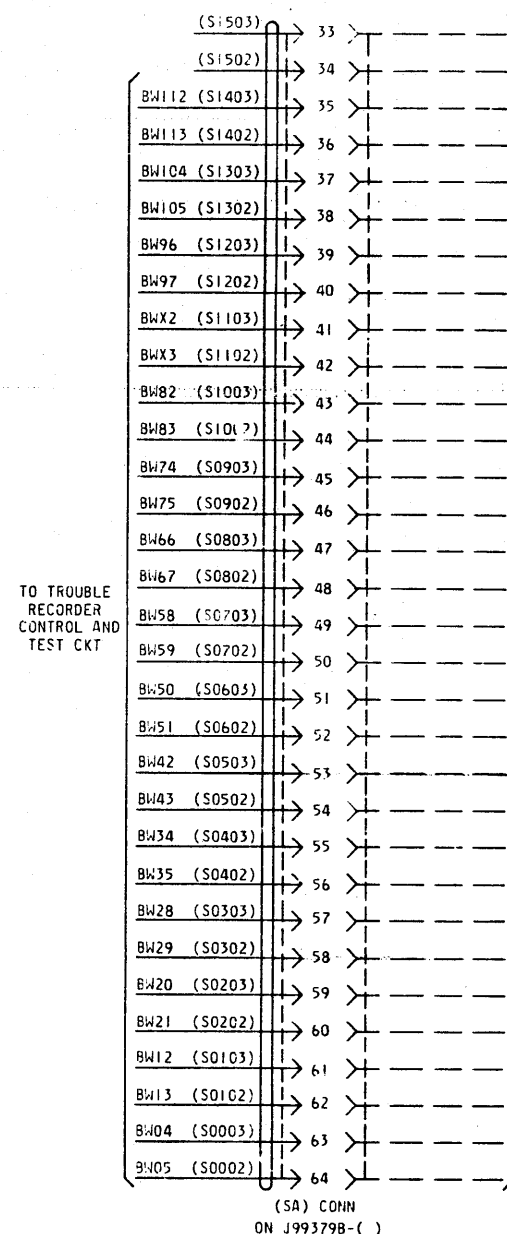
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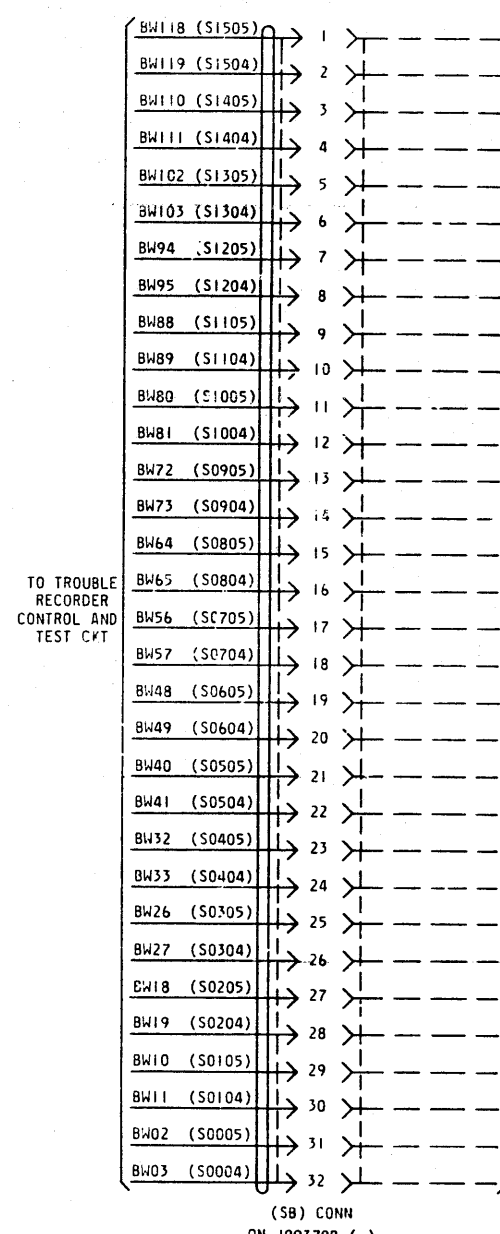
CAD 1 (SEE NOTE 1)



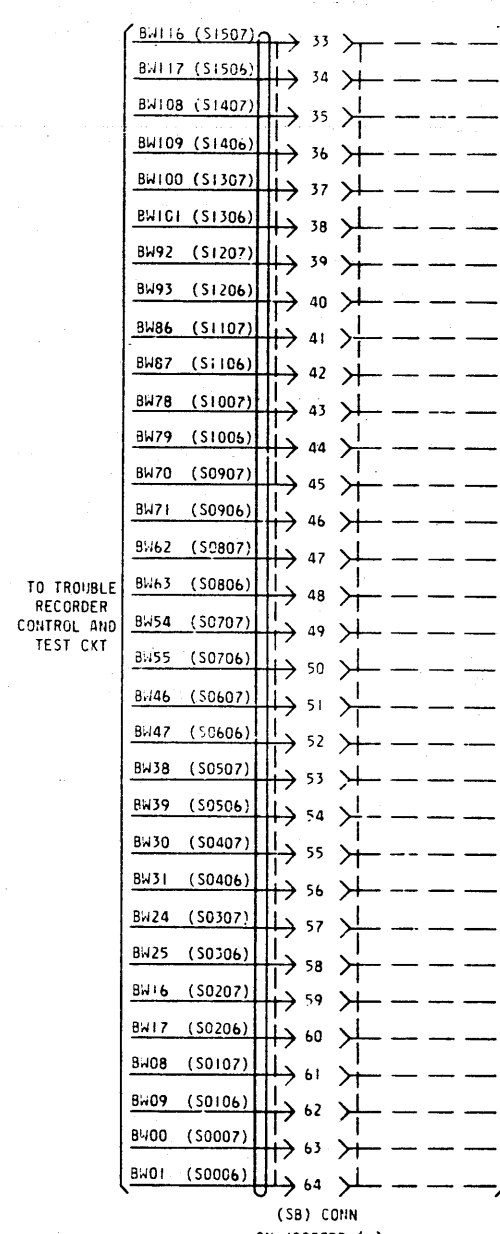
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SD-94851-01



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NOTES:

1. ALL CABLES FROM SA AND SB CONNECTORS ARE TO BE 26 AWG.

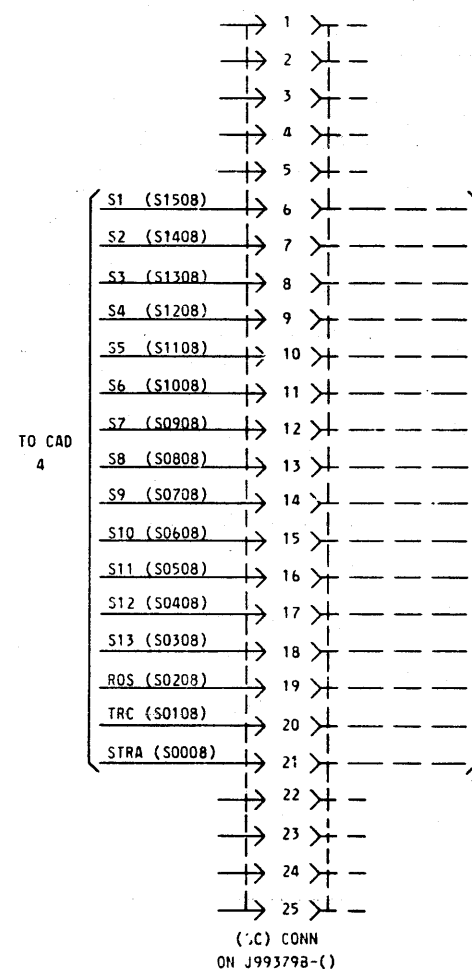
MAINTENANCE DATA TRANSMITTER		SD-28111-01-G1
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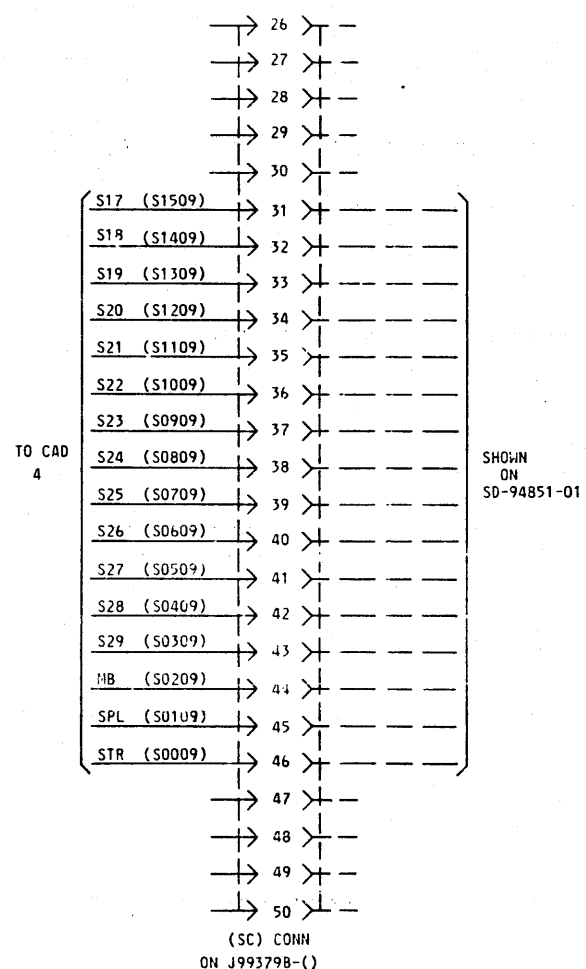
0 1 2 3 4 5 6 7 8 9

CAD 2
(SEE NOTE 1)

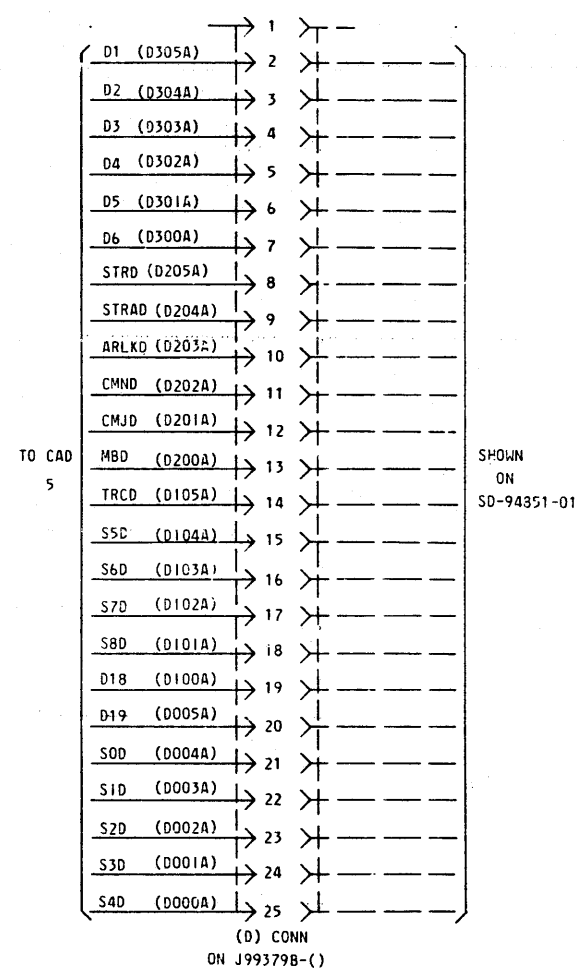
CAD 3
(SEE NOTES 1,2)



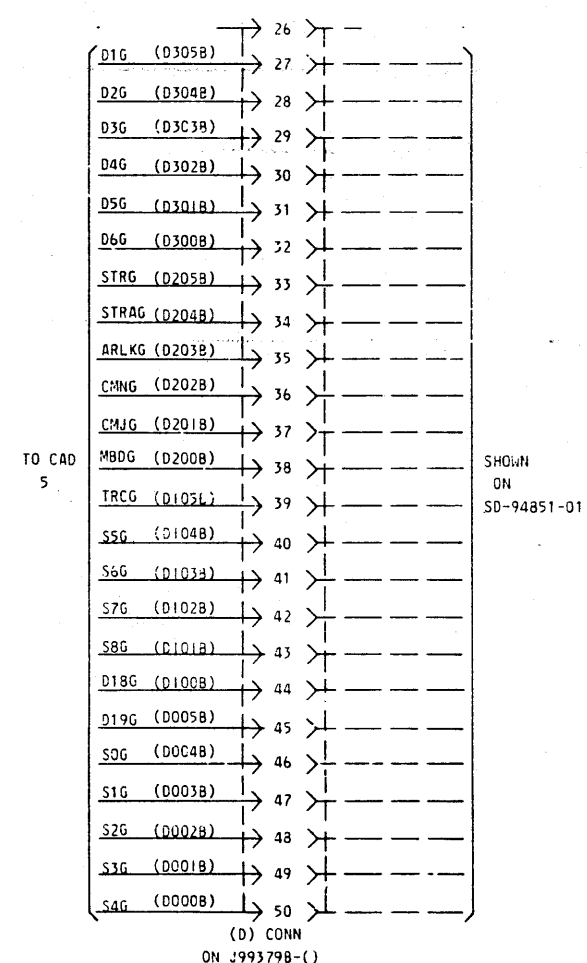
SHOWN
ON
SD-94851-01



SHOWN
ON
SD-94851-01



SHOWN
ON
SD-94351-01



SHOWN
ON
SD-94851-01

NOTES:

1. ALL CABLES FROM SC AND D CONNECTORS ARE TO BE 26 AWG.
2. DISTRIBUTE LEADS AND ASSOCIATED GROUND LEADS TO BE PAIRED, THAT IS D1 AND D1G TO BE PAIRED ETC.

ISSUE
2B

MAINTENANCE DATA
TRANSMITTER

BELL TELEPHONE LABORATORIES
INCORPORATED

6S

SD-28111-01-G2

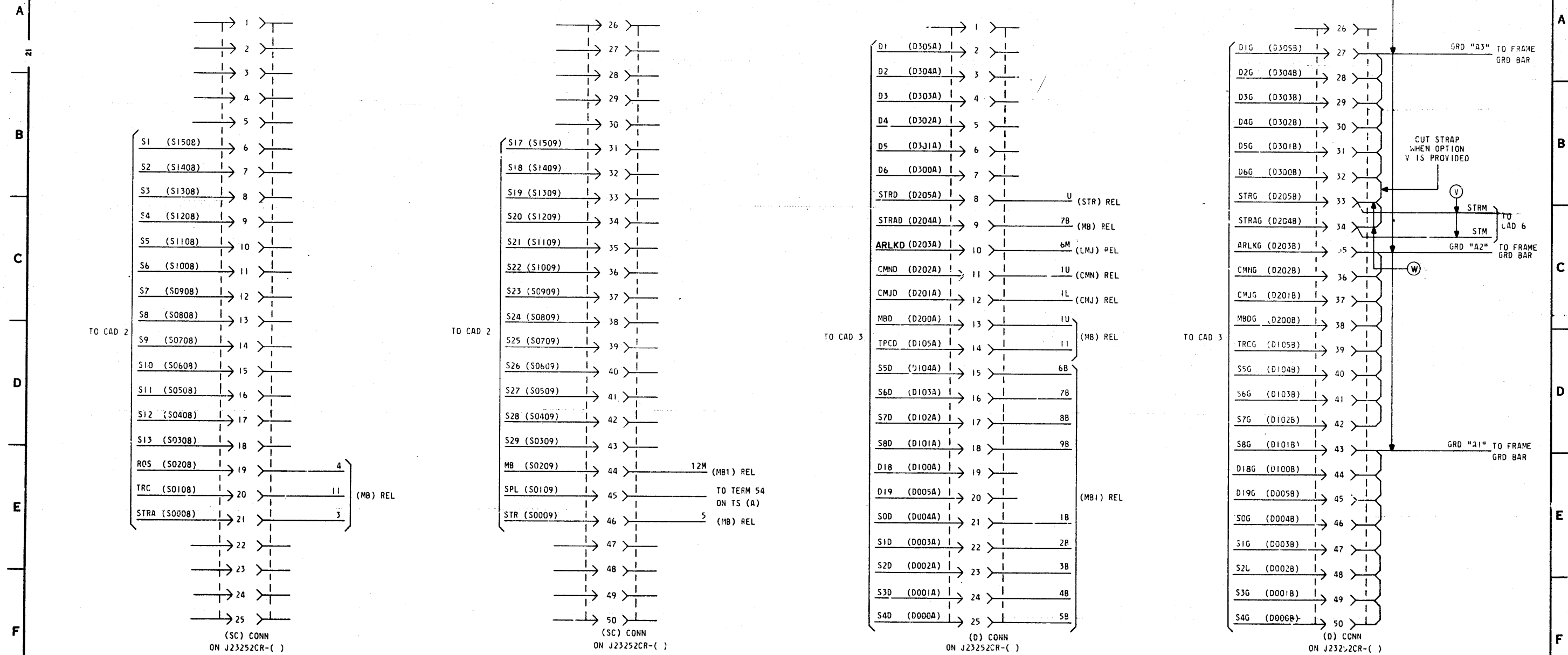
PRINTED IN U.S.A.

0 1 2 3 4 5 6 7 8 9

CAD 4

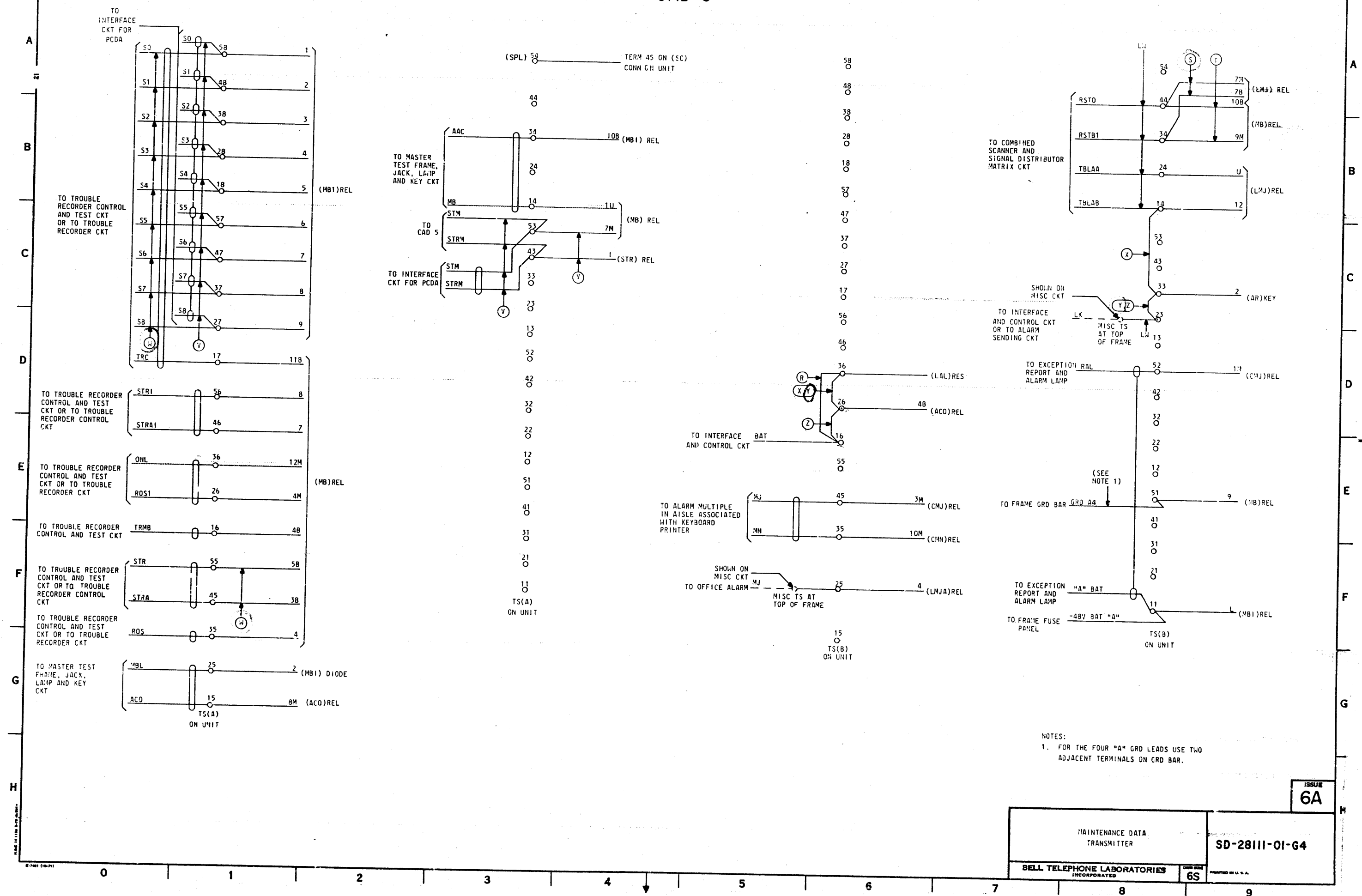
CAD 5

(SEE NOTE 1)

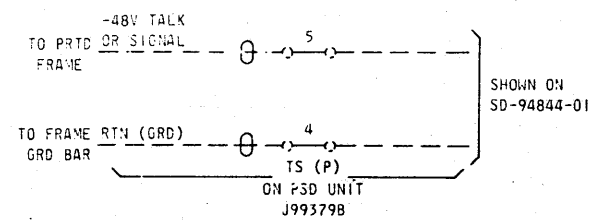


NOTES:
1. FOR THE FOUR "A" GRD LEADS USE TWO ADJACENT TERMINALS ON GRD BAR.

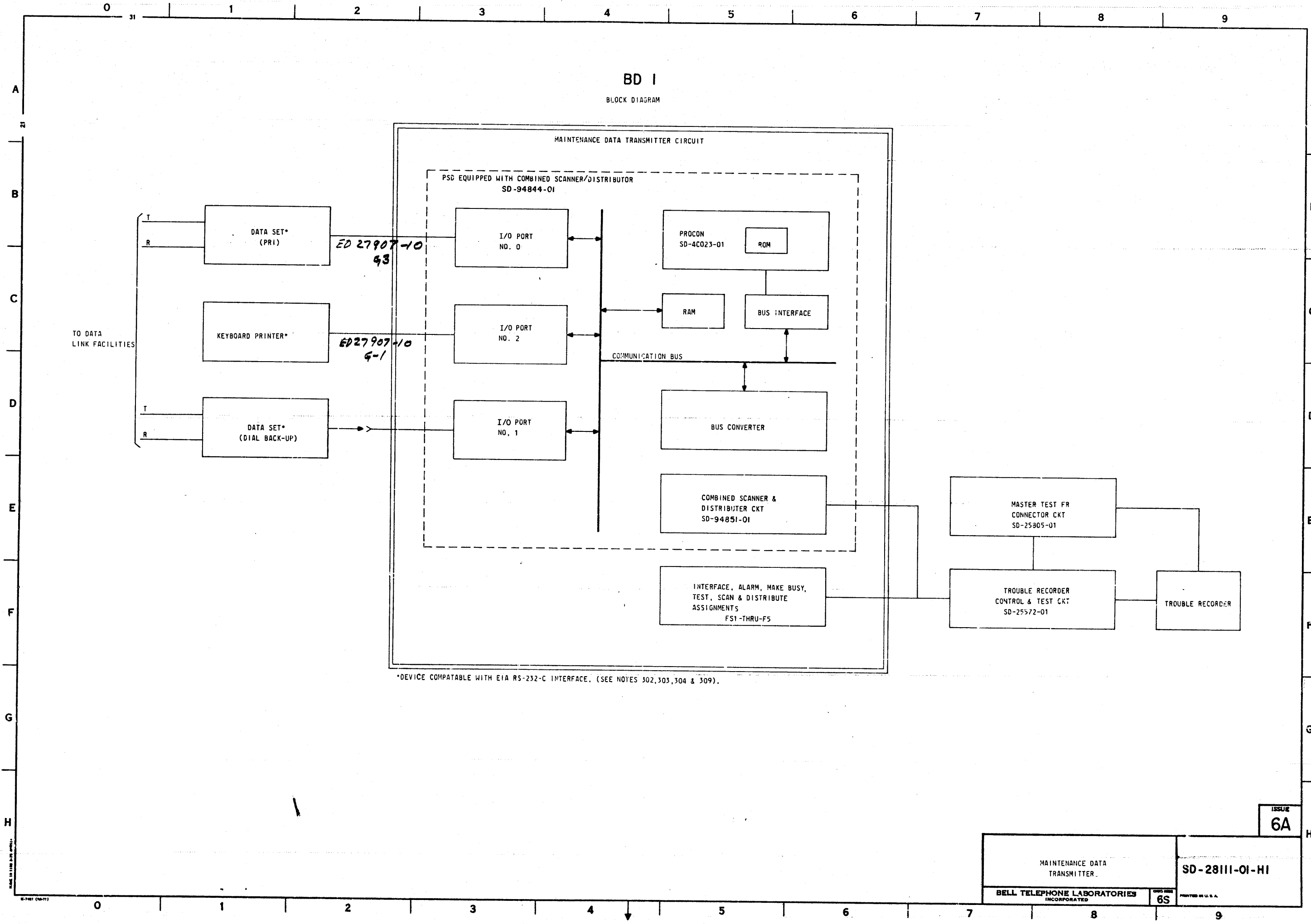
CAD 6



CAD 7



MAINTENANCE DATA TRANSMITTER		
OWG SIZE 65	ISSUE 4AR	
BELL LABORATORIES	SD-28111-01-	G5



DESCRIPTION

15 3/4

APPARATUS CHANGES

NONE

E1 - THIS CHANGE IS MADE TO ADD
TERMINATION OF +130V CABLE
FROM PRTO CKT TO CDT CKT.

WE. MFRG DRAWINGS SHOW A
TERMINATION FOR THE +130V
CABLE ON PUNCHING 16 OF THE
MISC. T.S., HOWEVER, IT IS NOT
KNOWN IF THE WIRING USED
IS 20 AWG, THEREFORE ALL
CURRENT INSTALLATIONS WILL
HAVE TO BE VERIFIED.

CIRCUIT/EQUIPMENT

SHEET

ISSUE

6D

TITLE

CALL DATA TRANSMITTER
APPLICATION CIRCUIT

1 OF

2

SYSTEM

#1

Y3

CODE OR DOCUMENT IDENTIFICATION

SD-28730-01

☒ CIRCUIT
☐ EQUIPMENT

CHARGE CASE 012009-0360

WE CONTROL
(PECC)

CB

EQUIPMENT

CHANGE
CLASS

APPLICABLE BSRS

AT&T
RATINGASSOC
CKT DWG

ISS DATE

PROBABLE DEL AND

REPAIRED PRODUCT BSRS AFFECTED?

☐ YES☐ NO

J SPEC

AFFECTED YES ☐ NO ☐

PERFORMANCE REQ

MAINTENANCE

CIRCUIT

SCHEDULED FOR DWG ISS 8A DATE

ITEMS E1

PROJECT 5-400

AT & T RATING STD

☐ FIELD REQUEST ☐ ENGR COMPLAINT EQUIPMENT CODES☐ BTL-NOT ON PROJECT ☒ WE REQUESTSERVICE AFFECTED? ☐ YES ☒ NO

CUSTOMER PREMISES EQUIPMENT AFFECTED?

☐ YES ☐ NO

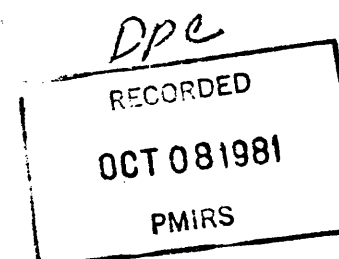
J22482-A

COORD CIRCUITS:

NONE

REASON FOR CHANGE AND DESCRIPTION

TO MEET DESIGN INTENT



SEP 29 1981

SEP 29 1981

ATTACHMENTS

SHEET 99

ADDITIONAL DISTRIBUTION

J. GRAHAM WECO
J F RETTIG-BTL

REGL

LAB

BEFORE
CKT
ISS ☐DEFER-
RED ☐NOT
REQ ☒

REFERENCES

APPROVALS

CKT DEPT
55213EQPT DEPT
55213

PROG DEPT

BTL CONTROL
LOCATION CB

CKT ENGR

DATE

F. J. SANTAPPA

EQPT ENGR

DATE

D. H. Smith

CKT SUPV

DATE

EQPT SUPV

DATE

9-22-81

CKT ENGR

DATE

PROG ENGR

DATE

9-22-81

CKT SUPV

DATE

PROG SUPV

DATE

9-22-81

(TO BE COMPLETED BY WE AND RETURNED TO BTL ENGR RECORDS)

AT LOC. DEPT.

PRINCIPAL WE CKT

ISSUE

SIGNED

DATE

WITNESSED AND L. OF RECORD BY

WE ENGR

LOC

TEL

DATE

CLASS A, AC, AR CHANGE - COST AND APPROVAL
UNDER \$100,000 ☒ APPROVED BY ABOVE SUPERVISION

\$10,000
ESTIMATED COST TO
NEAREST \$100,000

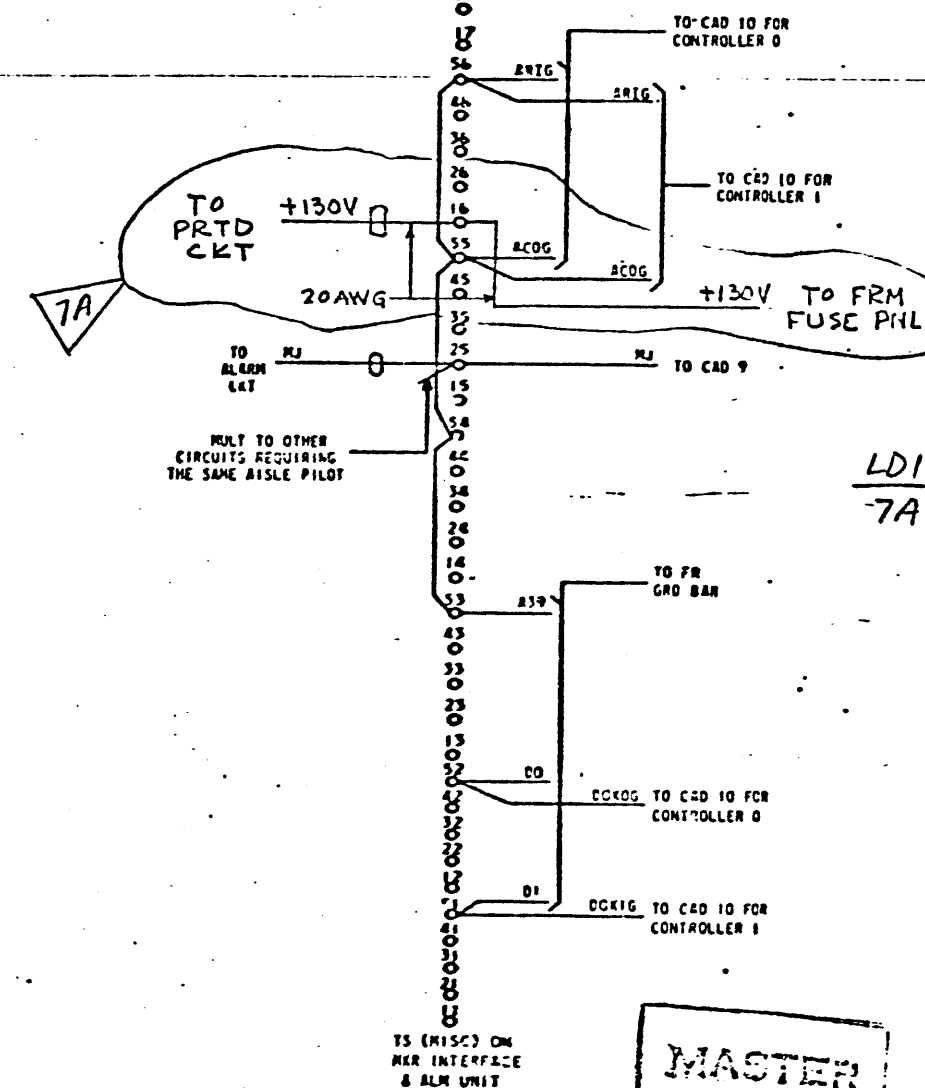
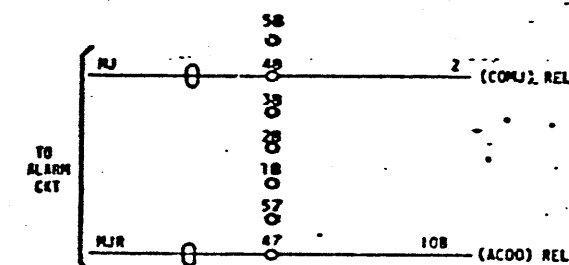
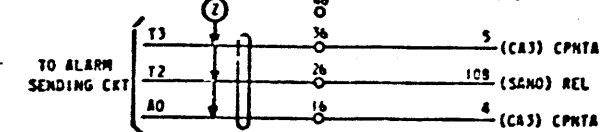
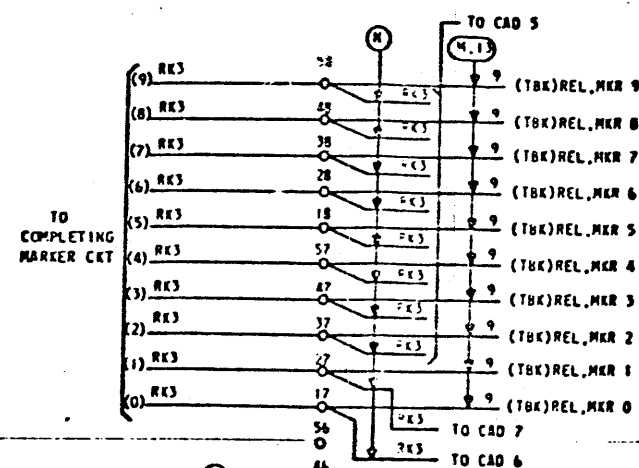
D. G. James
DIRECTOR (9000 TO \$1,000,000)
EXEC DIRECTOR OVER \$1,000,000

BELL TELEPHONE LABORATORIES, INCORPORATED

10 5/8

10.2K(186)

155
- 8A


$$\frac{LDI}{-7A}$$

MASTER

CALL DATA TRANSMITTER APPLICATION		DWG SIZE 65	ISSUE 7AC
BELL LABORATORIES	SD-23130-01-		69