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DWG ISSUE	CD ISSUE	DATE ISSUED	BY	APP'D
1	1	6-17-81		
2A	APP 1A	9-29-83		
3D	2D	9-29-83		
4D	2D APPA ID	8-17-85		

SUPPORTING INFORMATION		SHEET INDEX NOTES	
CATEGORY	NO.		
CPS-X		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.	
* SCHEMATICS OF ALL FE-CODE CIRCUIT PACKS USED IN THIS CIRCUIT ARE SHOWN ON DRAWINGS NUMBERED WITH A CPS PREFIX FOLLOWED BY THE CODE OF THE PACK AS CPS-TN245.			

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2T13

5ESSTM SWITCHING EQUIPMENT
DATA SET APPLICATION SCHEMATIC
CIRCUIT

AT&T
PROVISIONAL
A&M ONLY

DWG SIZE 65	ISSUE 4D
AT&T BELL LABORATORIES	
SD-5D011-01	
A1 15 SHEETS	

SHEET INDEX OPERATION AND MAINTENANCE

CONTENTS	SHEET NO.	SHEET ISSUE
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SHEET CANCELED ON DWG ISS 3D	B#9	

CONTENTS	SHEET NO.	SHEET ISSUE
AS-10 TYPICAL DATA SET CONNECTIONS FOR OPERATIONAL SUPPORT SYSTEM CHANNEL TO 3B IOP-TTY PERIPHERAL CONTROL PACK, ARRANGED FOR 4-WIRE PRIVATE LINE, FULL DUPLEX, SYNCHRONOUS 2400 BPS OPERATION, USING 2024A DATA SETS	B#10	3
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SHEET CANCELED ON DWG ISS 3D	B#14	
AS-15 CONNECTION OF MAINTENANCE TTY (MTTY) TO 3B PERIPHERAL CONTROLLER FRAME	B#15	3
AS-16 CONNECTION OF READ ONLY PRINTER (ROP) TO 3B PERIPHERAL FRAME	B#16	3
AS-17 CONNECTION OF (OPTIONAL) LOCAL RECENT CHANGE/VERIFY (RC/VFY) CHANNEL TO 3B PERIPHERAL CONTROLLER FRAME	B#17	3
AS-18 DATA LINK TO INTRAOFFICE BELTLINE CHANNEL, ARRANGED FOR FULL DUPLEX, MEDIUM SPEED, ASYNCHRONOUS OPERATION	B#18	3
AS-19 CONNECTION OF TERMINAL ON MOBILE CART TO BELTLINE CHANNEL	B#19	3

CONTENTS	SHEET NO.	SHEET ISSUE
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INFORMATION NOTES	D#1	3

1

SUPPORTING INFORMATION

CATEGORY	NO.

SHEET INDEX NOTES

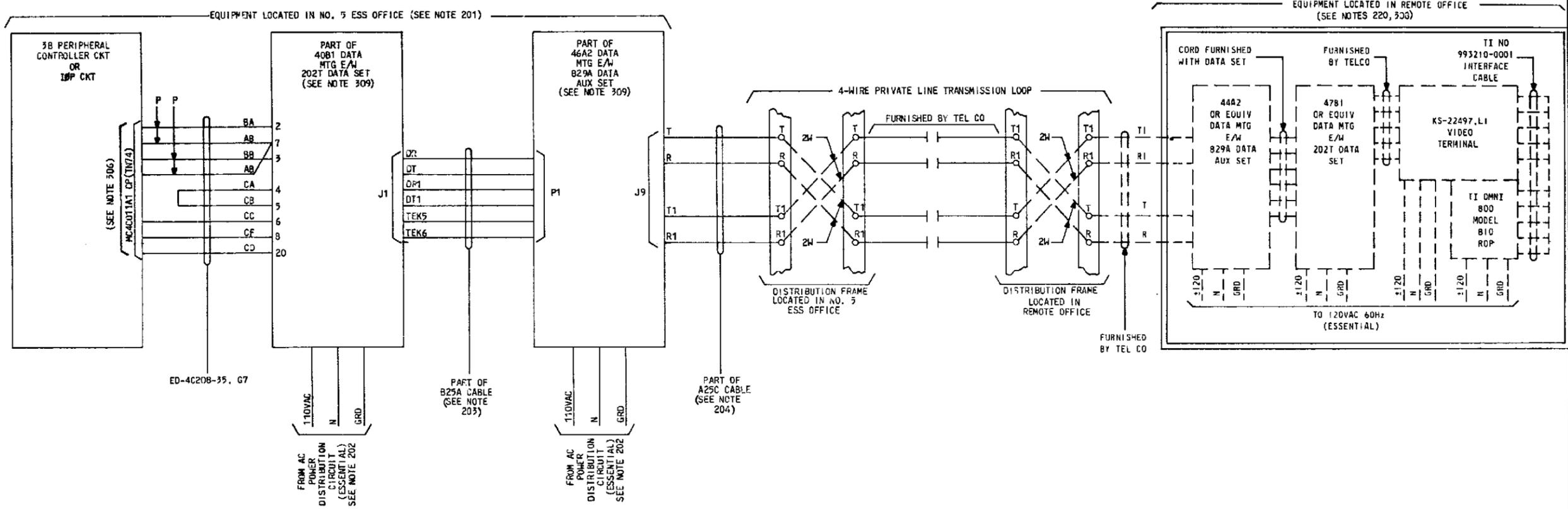
1. WHEN CHANGES ARE MADE IN THIS DRAWING ONLY THOSE SHEETS AFFECTED WILL BE REISSUED.
2. THIS SHEET INDEX WILL BE REISSUED AND BROUGHT UP TO DATE EACH TIME ANY SHEET OF THE DRAWING IS REISSUED, OR A NEW SHEET IS ADDED.
3. THE ISSUE NUMBER ASSIGNED TO A CHANGED OR NEW SHEET WILL BE THE SAME ISSUE NUMBER 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.

FIGURES, NOTES, AND OTHER INFORMATION REFERENCED IN THIS DRAWING, BUT NOT LISTED IN THE "OPERATION AND MAINTENANCE" SHEET INDEX ARE REQUIRED FOR ENGINEERING AND MANUFACTURING PURPOSES ONLY, AND ARE NOT PROVIDED.

NOTICE THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION OF BELL TELEPHONE LABORATORIES AND IS NOT TO BE REPRODUCED OR PUBLISHED WITHOUT BELL LABORATORIES APPROVAL

5ESSX SWITCHING EQUIPMENT		AT&T CO PROVISIONAL	
DATA SET APPLICATION SCHEMATIC CIRCUIT		DWG SIZE 65	ISSUE 3D
OPERATION AND MAINTENANCE		A#1 14 SHEETS	
BELL LABORATORIES		SD-5D011-01	

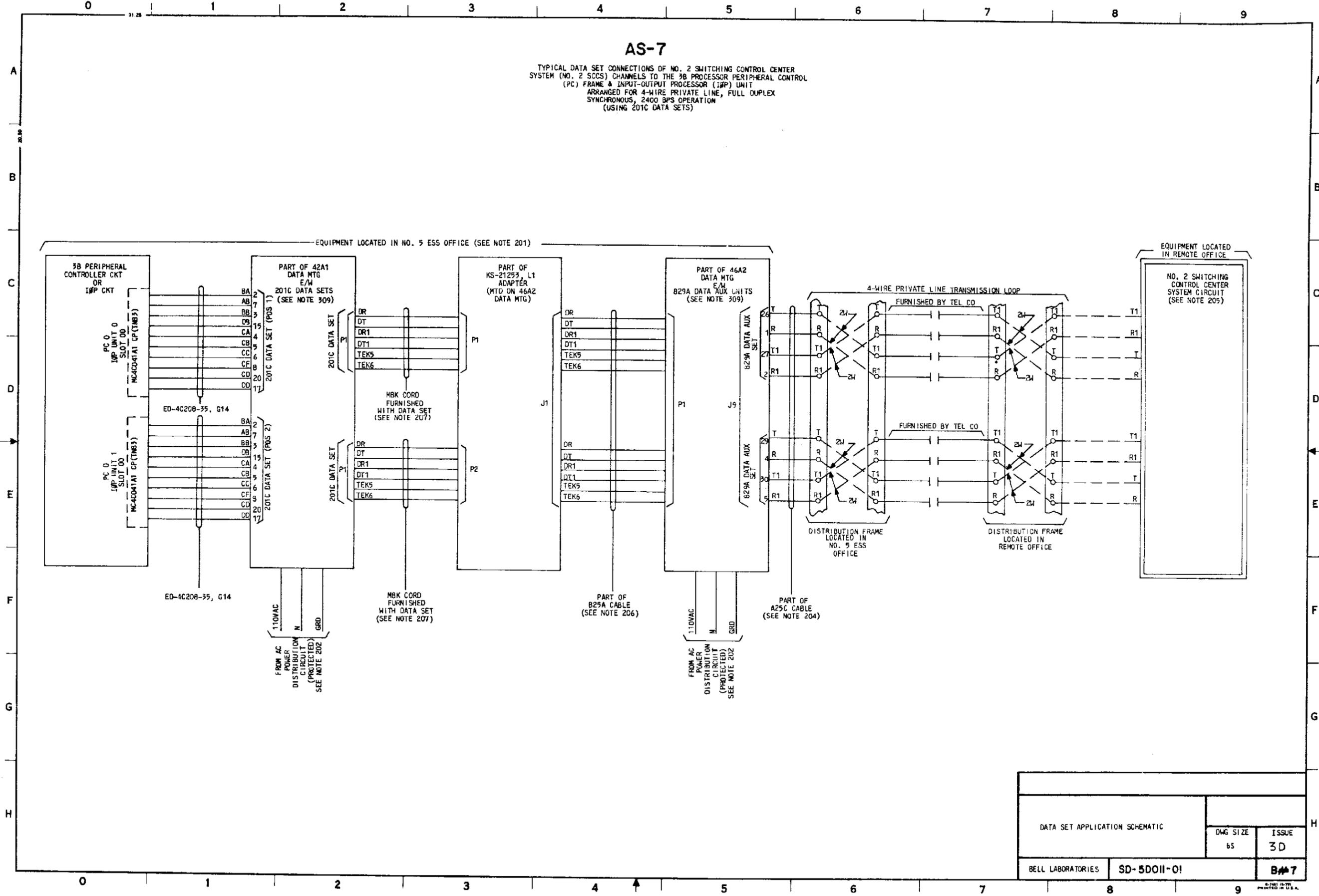
AS-1
 TYPICAL DATA SET CONNECTION FOR A TTY CHANNEL
 TO THE 3B 10P, ARRANGED FOR 4-WIRE, PRIVATE
 LINE, FULL DUPLEX, ASYNCHRONOUS 1200 BPS OPERATION
 (SEE NOTE 307)



DATA SET APPLICATION SCHEMATIC		DWG SIZE	ISSUE
		65	3D
BELL LABORATORIES	SD-50011-01	B#1	

AS-7

TYPICAL DATA SET CONNECTIONS OF NO. 2 SWITCHING CONTROL CENTER SYSTEM (NO. 2 SCCS) CHANNELS TO THE 3B PROCESSOR PERIPHERAL CONTROL (PC) FRAME & INPUT-OUTPUT PROCESSOR (IOP) UNIT ARRANGED FOR 4-WIRE PRIVATE LINE, FULL DUPLEX SYNCHRONOUS, 2400 BPS OPERATION (USING 201C DATA SETS)



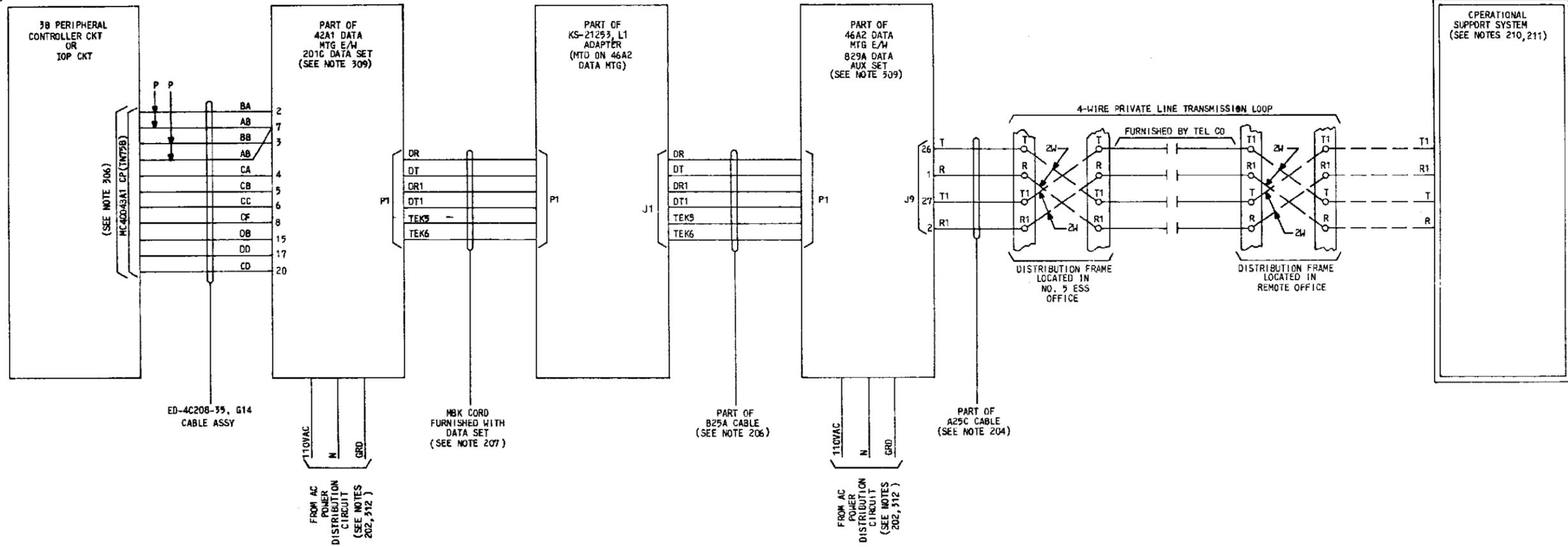
DATA SET APPLICATION SCHEMATIC		DWG SIZE	ISSUE
		65	3D
BELL LABORATORIES	SD-5D011-01	B#7	

AS-8

TYPICAL DATA SET CONNECTIONS FOR OPERATIONAL SUPPORT SYSTEM CHANNEL TO 38 IOP TM758 PERIPHERAL CONTROL PACK, ARRANGED FOR 4 WIRE PRIVATE LINE, FULL DUPLEX, SYNCHRONOUS 2400 BPS OPERATION, USING 201C DATA SETS. (SEE NOTES 208, 209, 311, 312)

EQUIPMENT LOCATED IN NO. 5 ESS OFFICE (SEE NOTE 201)

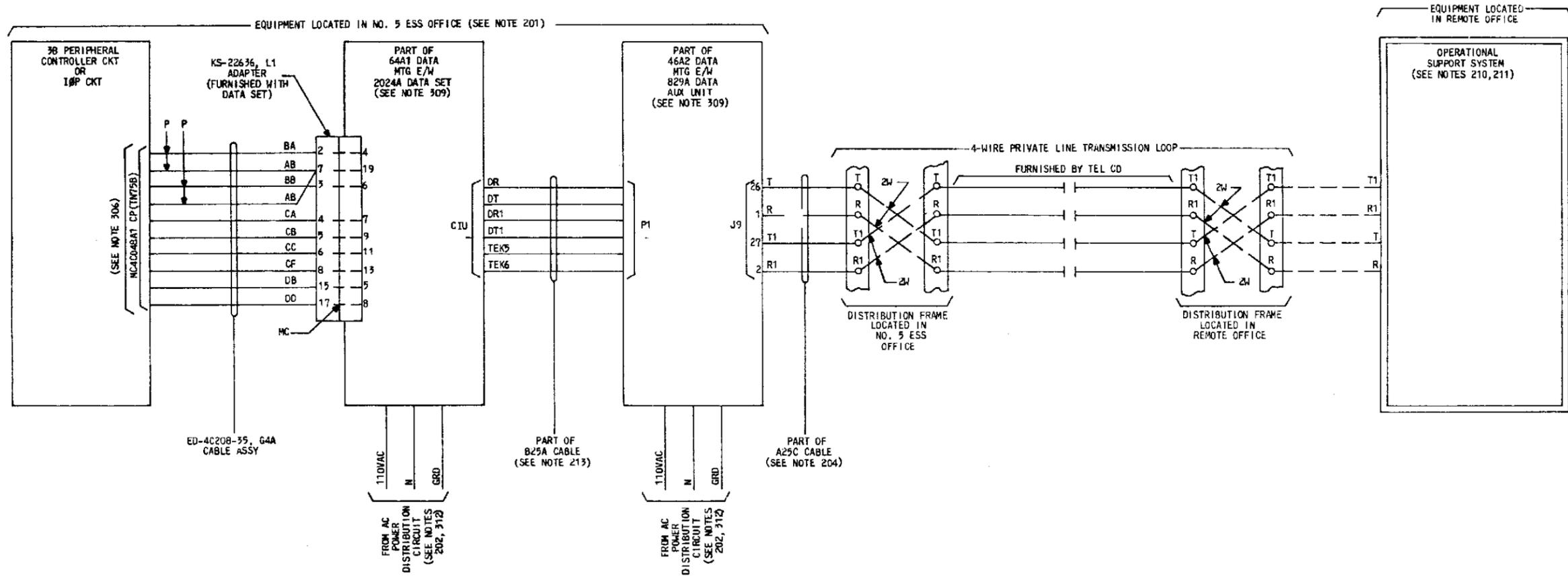
EQUIPMENT LOCATED IN REMOTE OFFICE



DATA SET APPLICATION SCHEMATIC		DWG SIZE	ISSUE
		65	3D
BELL LABORATORIES	SD-5DOH-01	B#8	

AS-10

TYPICAL DATA SET CONNECTIONS FOR OPERATIONAL SUPPORT SYSTEM CHANNEL TO 3B IOP TN75B PERIPHERAL CONTROL PACK, ARRANGED FOR 4-WIRE PRIVATE LINE, FULL DUPLEX, SYNCHRONOUS 2400 BPS OPERATION, USING 2024A DATA SETS. (SEE NOTES 208, 209, 311, 312)

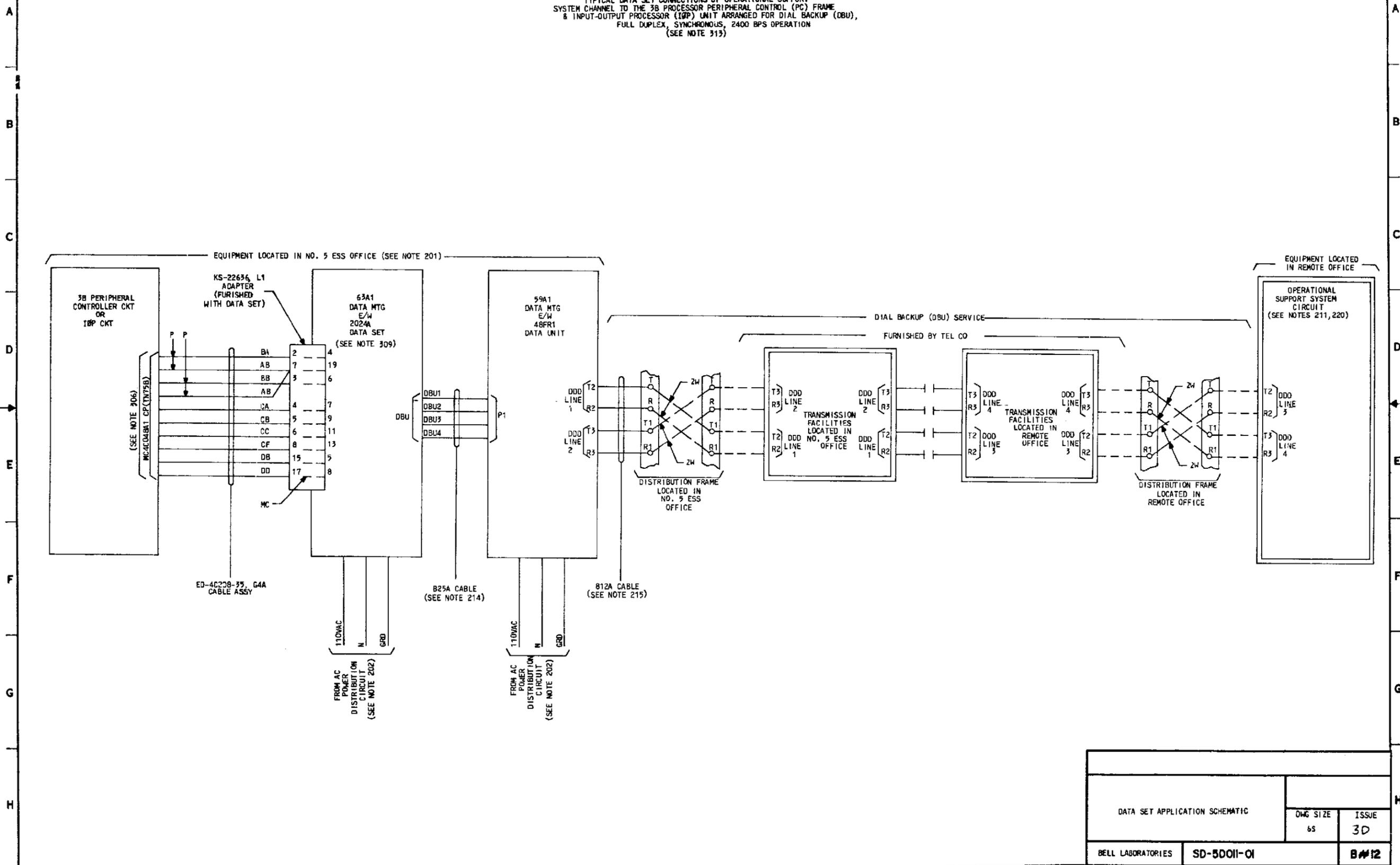


DATA SET APPLICATION SCHEMATIC		DWG SIZE	ISSUE
		65	3D
BELL LABORATORIES	SD-5D011-01	B#10	

0 1 2 3 4 5 6 7 8 9

AS-12

TYPICAL DATA SET CONNECTIONS OF OPERATIONAL SUPPORT SYSTEM CHANNEL TO THE 3B PROCESSOR PERIPHERAL CONTROL (PC) FRAME & INPUT-OUTPUT PROCESSOR (IOP) UNIT ARRANGED FOR DIAL BACKUP (DBU), FULL DUPLEX, SYNCHRONOUS, 2400 BPS OPERATION (SEE NOTE 313)

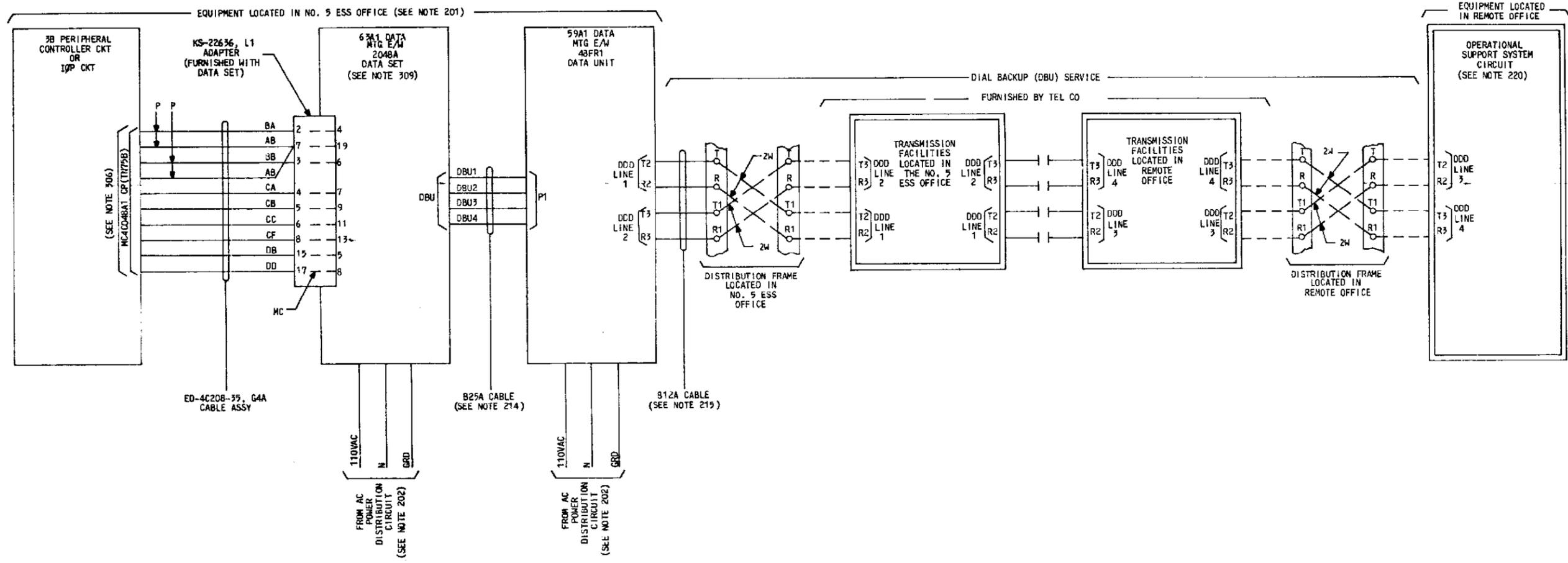


DATA SET APPLICATION SCHEMATIC		DWG SIZE	ISSUE
		65	30
BELL LABORATORIES	SD-50011-01	B#12	

0 1 2 3 4 5 6 7 8 9

AS-13

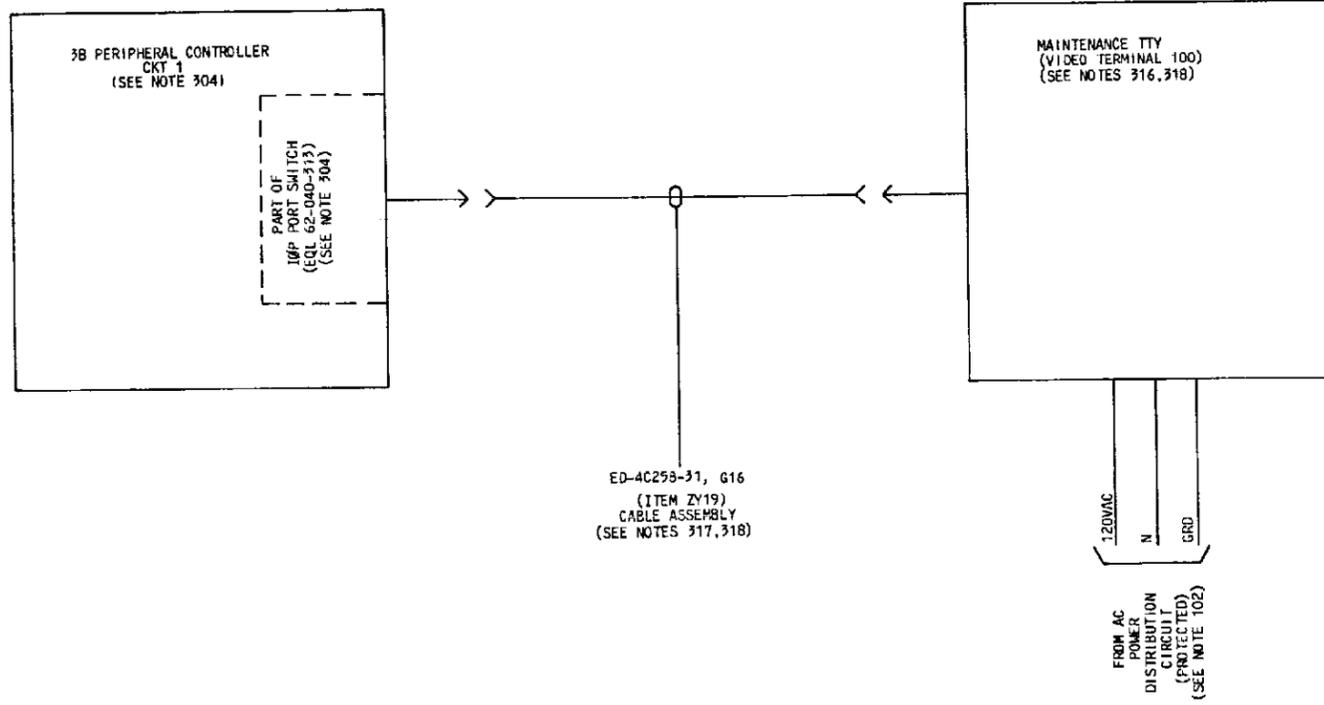
TYPICAL DATA SET CONNECTIONS OF OPERATIONAL SUPPORT SYSTEM CHANNEL TO THE 3B PROCESSOR PERIPHERAL CONTROL (PC) FRAME & INPUT-OUTPUT PROCESSOR (IOP) UNIT ARRANGED FOR DIAL BACKUP (DBU), FULL DUPLEX, SYNCHRONOUS, 4800 BPS OPERATION (SEE NOTE 314)



DATA SET APPLICATION SCHEMATIC	DWG SIZE	ISSUE
	6S	3D
BELL LABORATORIES	SD-50011-01	B#13

AS-15

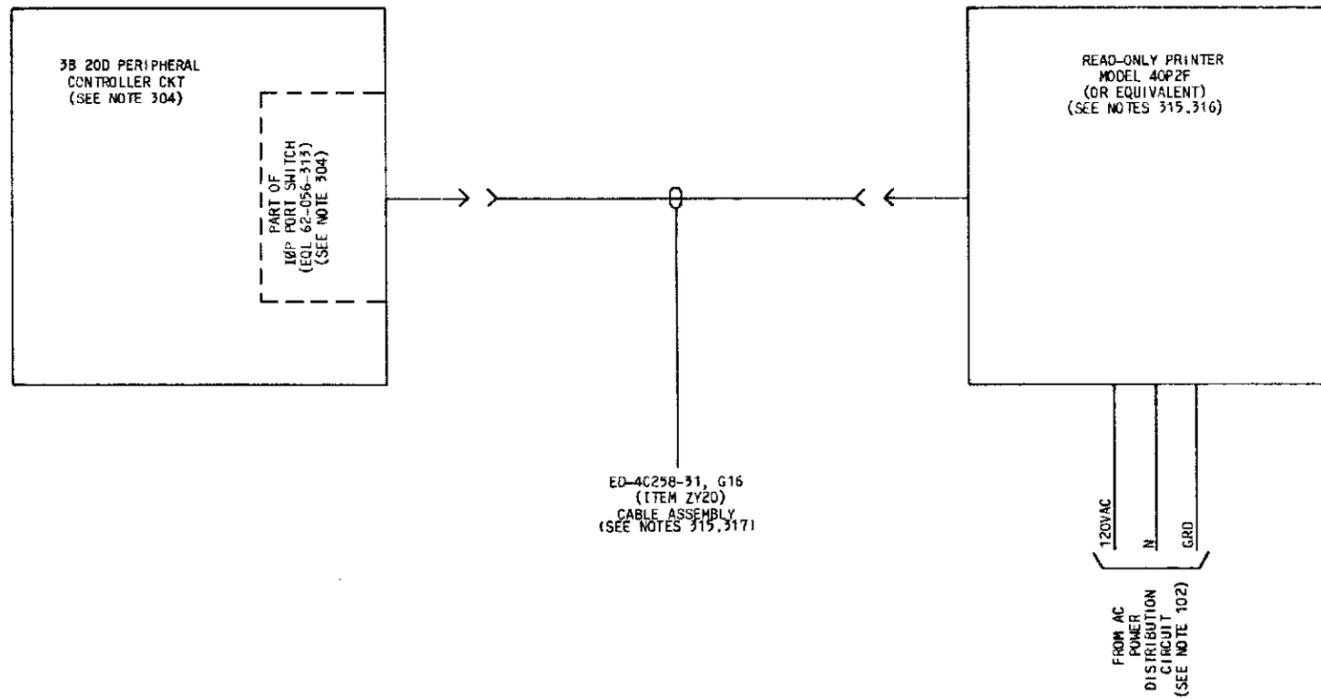
CONNECTION OF MAINTENANCE TTY (MTTY)
TO 3B PERIPHERAL CONTROLLER FRAME



DATA SET APPLICATION SCHEMATIC		DWG SIZE	ISSUE
		85	3D
BELL LABORATORIES	SD-5D011-01	B#15	

AS-16

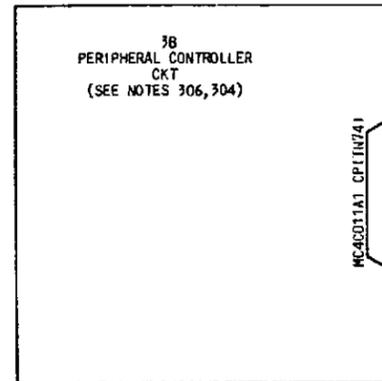
CONNECTION OF READ ONLY PRINTER
(R&P) TO 3B PERIPHERAL FRAME



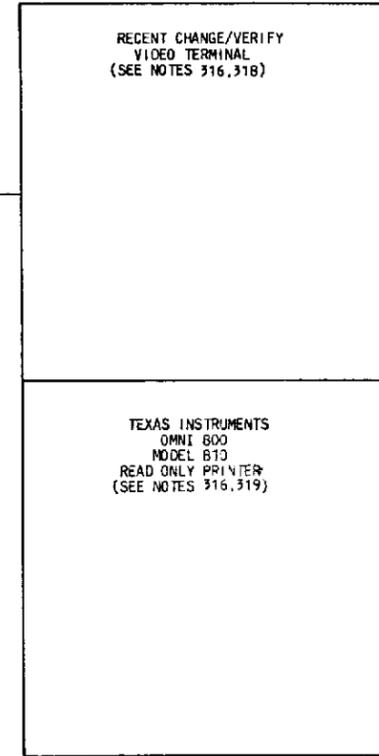
DATA SET APPLICATION SCHEMATIC		DWG SIZE	ISSUE
		8S	3D
BELL LABORATORIES	SD-5DO11-01	B#16	

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AS-17
 CONNECTION OF (OPTIONAL) LOCAL RECENT
 CHANGE/VERIFY (RC/VFY) CHANNEL TO
 3B PERIPHERAL CONTROLLER FRAME
 (SEE NOTE 320)



MC40011A1 OPTIN/741



ED-4C258-31, G16
 (ITEM ZY34)
 CABLE ASSEMBLY
 (SEE NOTES 317, 318)

120VAC
 N
 GRD

FROM AC POWER
 DISTRIBUTION CKT
 (PROTECTED)
 (SEE NOTE 101)

TEXAS INSTRUMENTS
 CAT NO. 993210-0001
 INTERFACE CABLE
 (SEE NOTE 319)

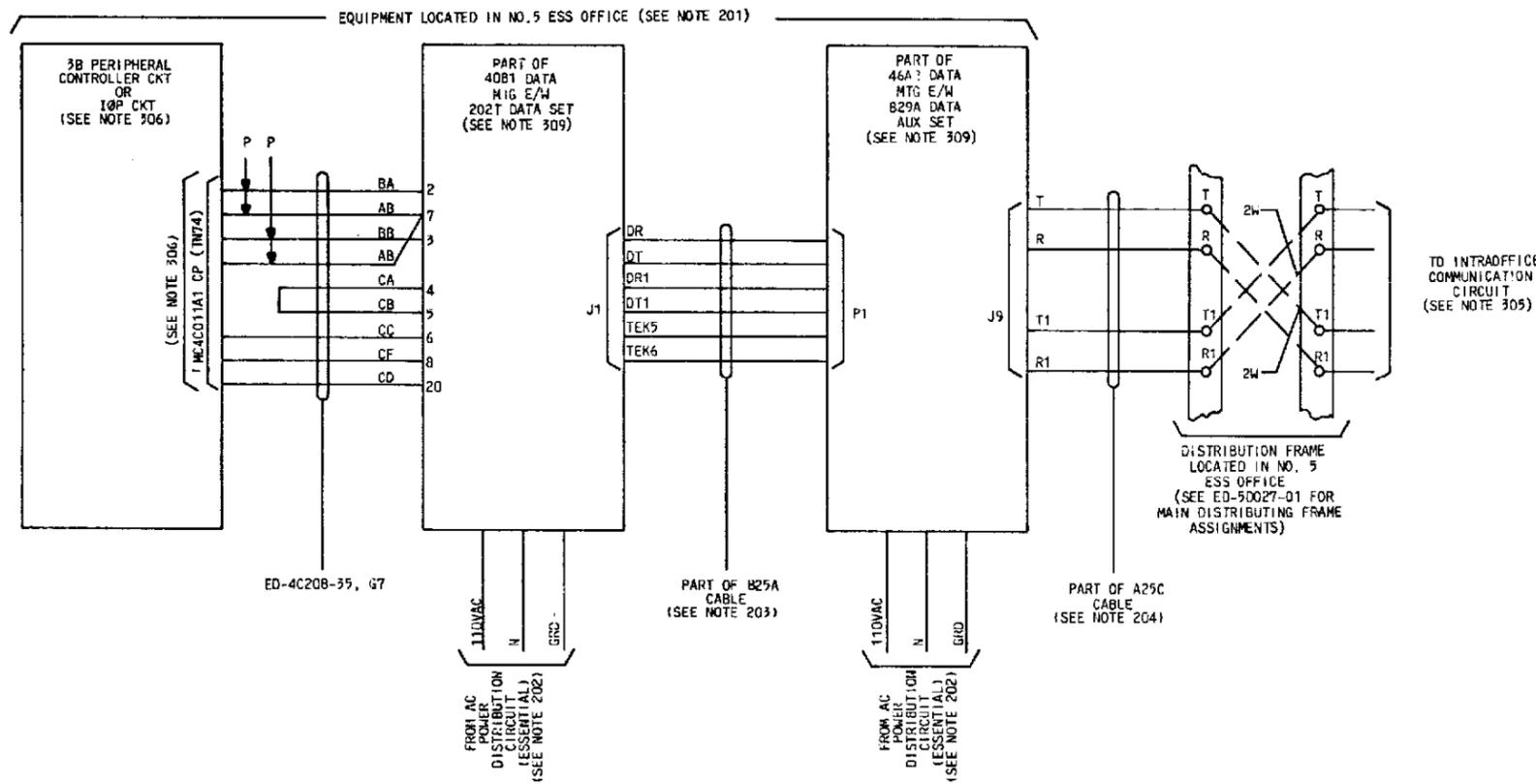
120
 N
 GRD

FROM AC
 POWER
 DISTRIBUTION
 CIRCUIT
 (PROTECTED)
 (SEE NOTE 102)

DATA SET APPLICATION SCHEMATIC		DWG SIZE	ISSUE
		SS	3D
BELL LABORATORIES	SD-50011-01	B# 17	

1-75

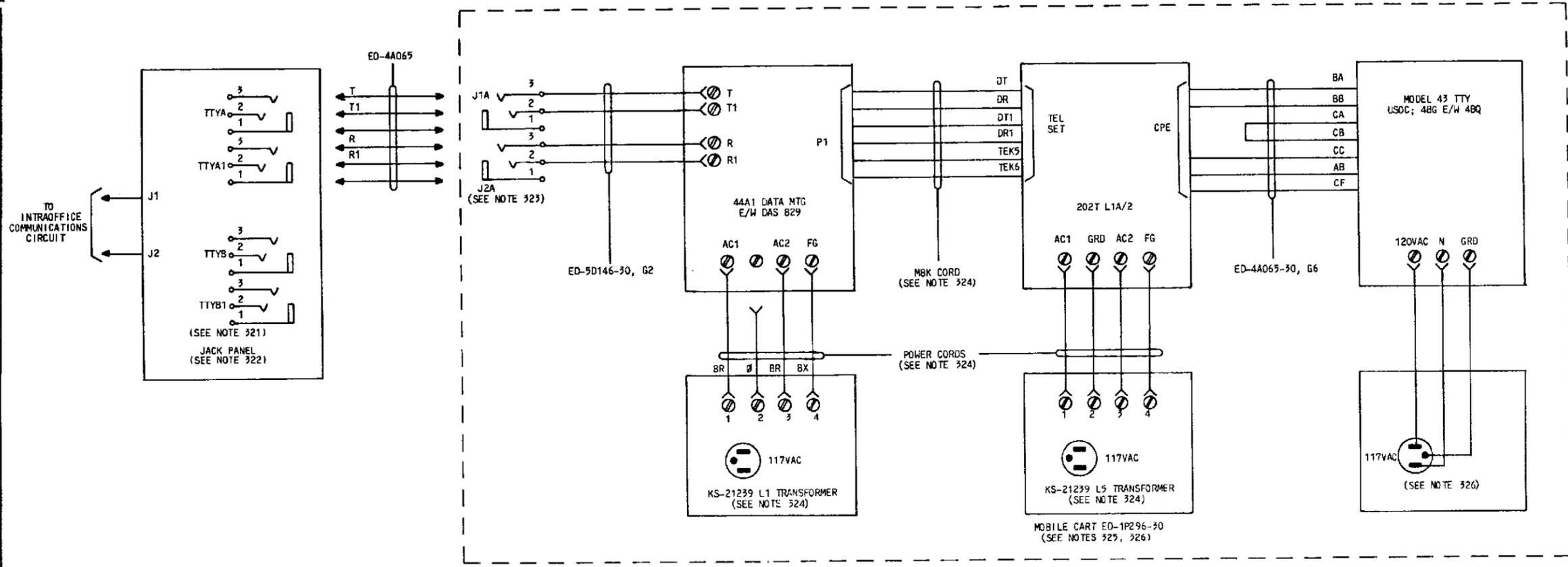
AS-18
 DATA LINK TO INTRAOFFICE BELTLINE CHANNEL,
 ARRANGED FOR FULL DUPLEX, MEDIUM SPEED,
 ASYNCHRONOUS OPERATION
 (SEE NOTE 321)



DATA SET APPLICATION SCHEMATIC		DWG SIZE	ISSUE
		85	3D
BELL LABORATORIES	SD-5D011-01	B#18	

AS-19

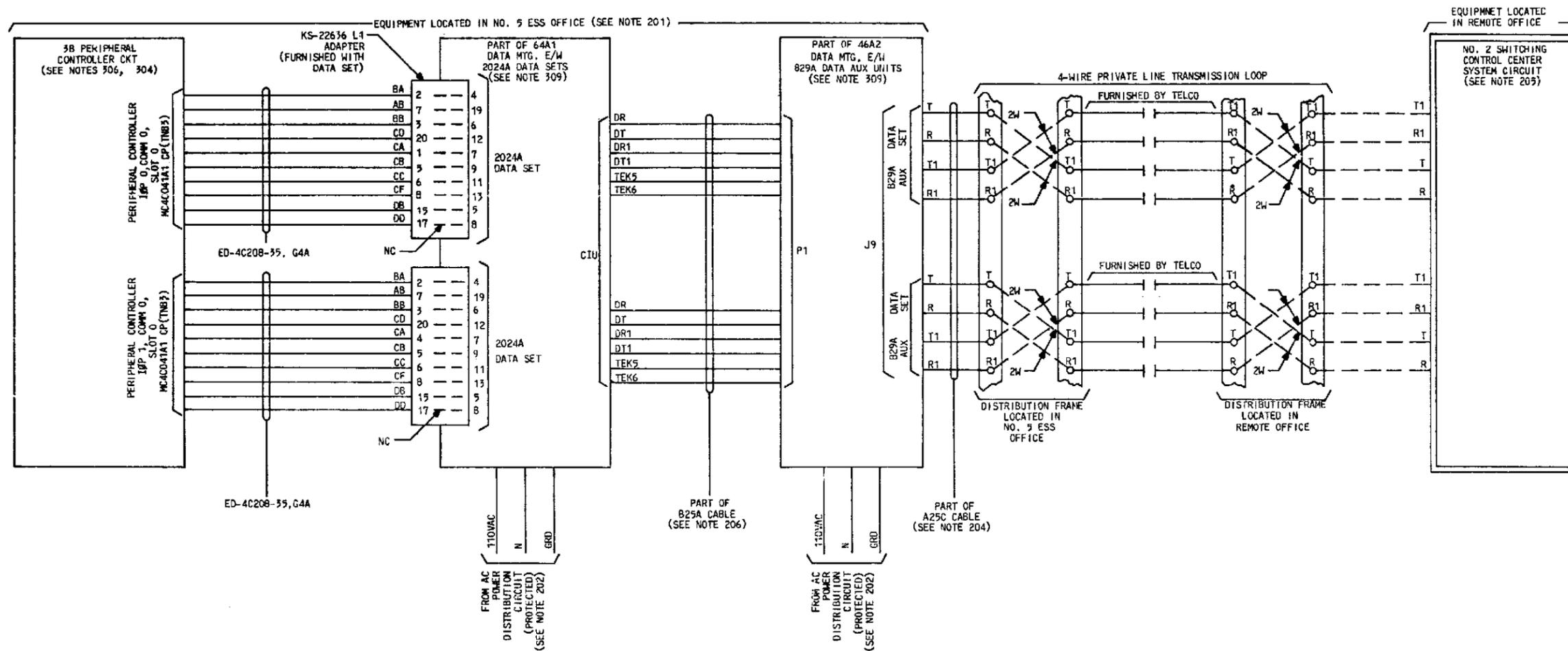
CONNECTION OF TERMINAL ON MOBILE
CART TO BELTLINE CHANNEL



DATA SET APPLICATION SCHEMATIC		DWG SIZE 6S	ISSUE 3D
BELL LABORATORIES	SD-5D011-01	B#19	

AS-20

TYPICAL DATA SET CONNECTIONS OF NO. 2 SWITCHING CONTROL CENTER SYSTEM (NO. 2 SCCS) CHANNELS TO THE 3B PROCESSOR PERIPHERAL CONTROL (PC) FRAME & INPUT-OUTPUT PROCESSOR (IOP) UNIT
ARRANGED FOR 4-WIRE PRIVATE LINE, FULL DUPLEX SYNCHRONOUS, 2400 BPS OPERATION (USING 2024A DATA SETS)



DATA SET APPLICATION SCHEMATIC		DWG SIZE	ISSUE
		85	3D
BELL LABORATORIES	SD-50011-01	B#20	

0 1 2 3 4 5 6 7 8 9

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CIRCUIT NOTES:

101.	DESIG	FUSE AMP	POTENTIAL	ONE PER
BATTERY SYMBOL			VOLTAGE RANGE	

102. AC POWER DISTRIBUTION REQUIREMENTS ARE SPECIFIED IN SD-50004-01.

EQUIPMENT NOTES:

- 201. SEE ED-50061-50 FOR TYPICAL DATA SET FRAME OR CABINET.
- 202. DATA MOUNTINGS REQUIRE ESSENTIAL OR PROTECTED 110V AC SERVICE. SEE NOTE ED-50061-50.
- 203. ONE B25A CABLE IS REQUIRED BETWEEN THE 40B1 AND 46A2 DATA MOUNTINGS.
- 204. ONE A25C CABLE (CONNECTORIZED ON ONE END ONLY) IS REQUIRED BETWEEN THE 46A2 DATA MOUNTING AND THE DISTRIBUTING FRAME.
- 205. THE NO. 2 SWITCHING CONTROL CENTER SYSTEM IS FURNISHED BY THE OPERATING COMPANY PER J380348-().
- 206. ONE B25A CABLE IS REQUIRED BETWEEN THE 46A2 DATA MOUNTING AND THE KS-21253, L1 ADAPTER MOUNTED ON THE 46A2 DATA MOUNTING.
- 207. THE M8K CORD CAN BE EXTENDED WITH B25A CABLE (LENGTH AS REQUIRED).
- 208. THE ENGINEERING AND ADMINISTRATION DATA ACQUISITION SYSTEM (EADAS) CHANNEL CAN BE EQUIPPED AS FOLLOWS:
A. AS-8 USING A 42A1 DATA MOUNTING AND 201C DATA SET. (SEE ED-50061-50 FIGURE 1 OR 5).
B. AS-10 USING A 64A1 DATA MOUNTING AND 2024A DATA SET. (SEE ED-50061-50 FIGURE 2 OR 6).
- 209. THE AUTOMATIC MESSAGE ACCOUNTING RECORDING CENTER (AMARC) CHANNEL CAN BE EQUIPPED AS FOLLOWS:
A. AS-9 USING A 42A1 DATA MOUNTING AND 201C DATA SET. (SEE ED-50061-50 FIGURE 4 OR 8).
B. AS-11 USING A 64A1 DATA MOUNTING AND 2024A DATA SET. (SEE ED-50061-50 FIGURE 3 OR 7).
- 210. INTERFACE CABLES AND DATA EQUIPMENT IS SHOWN ON SD-38243-01 FOR EADAS SYSTEM & FURNISHED BY THE OPERATING COMPANY.
- 211. INTERFACE CABLES AND DATA EQUIPMENT IS SHOWN ON SD-5P006-01 FOR AMARC SYSTEM & FURNISHED BY THE OPERATING COMPANY. ALSO AMARC EQUIPMENT IS SHOWN IN QUESTIONNAIRE EB140B.
- 213. ONE B25A CABLE IS REQUIRED BETWEEN THE 64A1 AND 46A2 DATA MOUNTINGS.
- 214. ONE B25A CABLE IS REQUIRED BETWEEN EACH 63A1 AND 59A1 DATA MOUNTING.
- 215. ONE B12A CABLE IS REQUIRED BETWEEN THE 59A1 (SCREW TERMINALS) DATA MOUNTING AND THE DISTRIBUTING FRAME IN THE NO. 5 ESS OFFICE.
- 219. RESERVED
- 220. THE DATA EQUIPMENT, ASSOCIATED CABLES AND AC OUTLETS LOCATED IN THE REMOTE OFFICE SHALL BE PROVIDED BY THE OPERATING COMPANY. ALSO, THE LOCATION OF THIS EQUIPMENT SHALL BE DETERMINED BY THE OPERATING COMPANY ON AN INDIVIDUAL OFFICE BASIS.

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APPLICATION SCHEMATIC FOR TYPICAL DATA SET FRAME OR CABINET		
DWG SIZE	ISSUE	
65	3D	
BELL LABORATORIES	SD-50011-01	01

0 1 2 3 4 5 6 7 8 9

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.

FEATURE OR OPTION	PROVIDE		
	APP FIG.	APP OR WRG	QUANTITY

RECORDS OF APP FIGURES, WIRING AND APPARATUS CHANGES						
CHANGES ON ISSUE	IF JOB RECORDS DO NOT SPECIFY	THIS OPTION WAS FURN	SEE NOTE	USE IN CIRCUIT		
				STD	A&M	MD

304. SEE SD-4C106-01
305. SEE SD-50009-01
306. ALL TOP PERIPHERAL CONTROL SLOT ASSIGNMENTS ARE GIVEN IN SD-50014-02, THE SYSTEM APPLICATION SCHEMATIC.
307. THIS DATA SET ARRANGEMENT CAN BE USED FOR ANY OF THE FOLLOWING LINKS:
A. ANY RC/VFY LINK, EXCEPT FOR LOCAL, EXAMPLES:
SGC RC/VFY, RC CENTER RC/VFY, NAC RC/VFY, AND ANY OTHER RC/VFY
B. REPAIR SERVICE BUREAU, LOCAL TEST DESK, VERIFY ONLY CHANNEL (RSB LTD VFY ONLY)
C. ALIT RSB CHANNEL, SEE NOTE 308.
(ALL OF THESE LINKS ARE IDENTICAL IN HARDWARE AND DIFFER ONLY IN THE SCREENING OF TTY COMMANDS BY THE 5 ESS SOFTWARE)
308. FOR ALIT RSB CHANNEL, RECOMMENDED TERMINAL IS TELETYPE MODEL 40/2 KEYBOARD DISPLAY PRINTER, BUT EXACT DATA TERMINAL EQUIPMENT ARRANGEMENT IS DETERMINED AND PROVIDED BY THE OPERATING COMPANY.
309. EQUIPMENT ENGINEER SHALL ASSIGN POSITIONS WITHIN DATA MOUNTINGS FOR ALL DATA SETS, DATA AUXILIARY SETS.
310. RESERVED
311. THIS DATA SET ARRANGEMENT CAN BE USED FOR THE LINKS TO EADAS, THE AMARC PRIMARY CHANNEL, RMAS, & SES 2. SEE NOTE 312.
312. EADAS, RMAS, SES 2, LINKS REQUIRE ESSENTIAL A.C. POWER. AMARC PRIMARY LINK REQUIRES PROTECTED A.C. POWER.
313. WHEN USED FOR AMARC DBU, PROTECTED A.C. IS REQUIRED.
314. WHEN USED FOR SCANS DBU, ESSENTIAL A.C. IS REQUIRED.
315. RBP IS ORDERED BY ED 4C258-31 G16D (G16 ORDERS CABLE ZY20).

INFORMATION NOTES (CONT)

316. RBP, MTTY (VT-100), AND (OPTIONAL) RC/VFY (VT-100 & TI-800) TERMINALS ARE MOUNTED ON MCC (MASTER CONTROL CENTER) (ED-50099-30).
317. MAXIMUM CABLE LENGTH IS 100'.
318. VT-100 IS ORDERED BY ED-4C258-31, G16 FOR MTTY TERMINAL, G16E FOR RC/VFY TERMINAL. G16 ORDERS CABLES ZY19, ZY34.
319. TI 800 RBP, AND INTERFACE CABLE, ARE ORDERED BY EQUIPMENT ENGINEER ON JOB BASIS.
320. THE LOCAL RC/VFY TERMINALS ARE REQUIRED FOR 9E1.1 OFFICES, OPTIONAL IN 9E1.2 OFFICES.
321. ONE CHANNEL IS ALWAYS REQUIRED, BUT A SECOND CHANNEL CAN BE ORDERED AS AN OPTION. SEE SD-50014-02, SD-50009-01. IF SECOND CHANNEL IS ORDERED, THEN A SECOND SET OF TW74-202TDS-829DAS MUST BE ORDERED.
322. ONE JACK PANEL IS LOCATED IN MSGO CABINET, AND ONE IN EACH IMC CABINET.
323. JACKS ON END OF CABLE ARE MOUNTED ON JACK MOUNTING PROVIDED ON MOBILE CART (ED-1P296-30 G1,2).
324. PROVIDED WITH 202TL1A/2, 44A1 DATA MOUNTING.
325. EQUIPMENT MOUNTED ON MOBILE CART ED-1P296-30 G1,2.
326. MOBILE CART PROVIDES MULTIPLE 117 VAC OUTLETS. THE CART ITSELF IS THEN PLUGGED INTO ANY CONVENIENCE OUTLET. (PRESENTLY PROVIDED IN NO. 5 ESS ENDGUARDS).

APPLICATION SCHEMATIC FOR TYPICAL DATA SET FRAME OR CABINET		DWG SIZE 65	ISSUE 3D
BELL LABORATORIES	SD-50011-01	D#1	