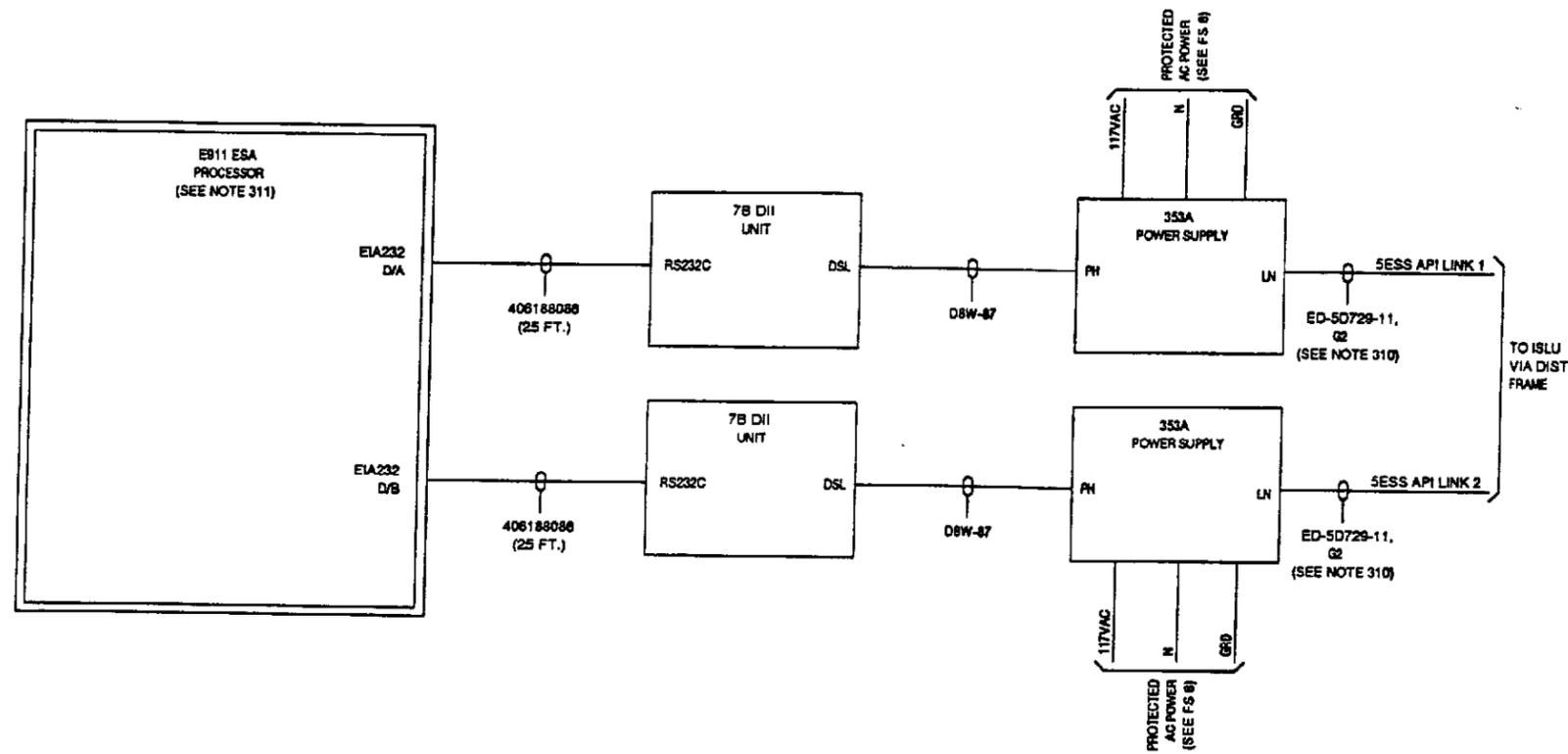


P/O FS 1

API LINK CONFIGURATION
 TYPICAL ARRANGEMENT FOR INTERFACING
 THE E911 ESA PROCESSOR TO THE SESS SWITCH
 WHEN CO-LOCATED IN A CENTRAL OFFICE

NOTES:

1. THE ESA CAN SUPPORT UP TO 8 PAIRS OF API LINKS. AFTER 4 PAIRS ONE OR TWO ADDITIONAL 4 PORT SYNC BOARDS WILL BE REQUIRED ALONG WITH THE APPROPRIATE CABLES.



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ENHANCED 911
 SERVICE ADJUNCT
 (ESA)

DWG SIZE	ISSUE
G2	6M

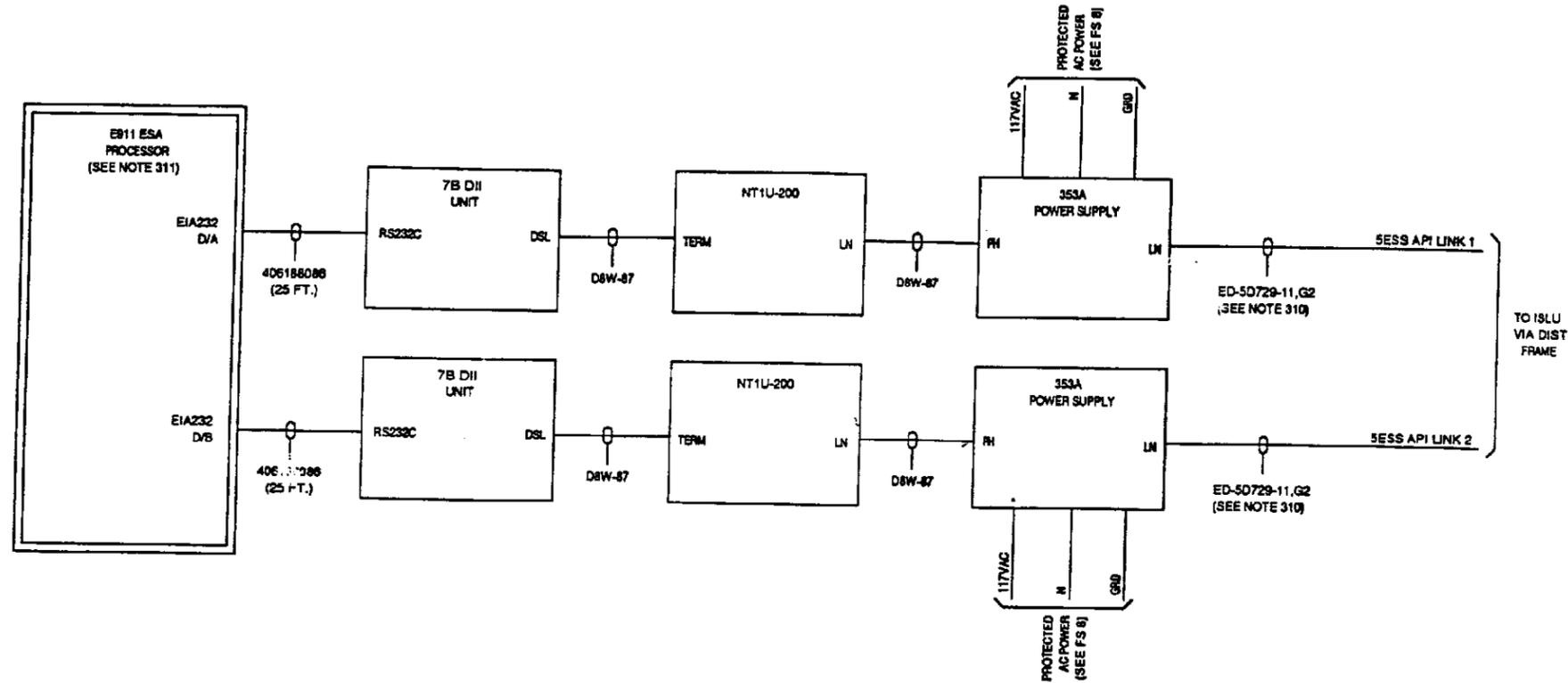
AT&T	SD-5D503-02	SHEET B1
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P/O FS 1

API LINK CONFIGURATION
 TYPICAL ARRANGEMENT FOR INTERFACING
 THE EB11 ESA PROCESSOR TO THE SESS SWITCH
 WHEN THE PROCESSOR IS NOT CO-LOCATED WITH THE SWITCH
 BUT IS LOCATED LESS THAN 8.5KM FROM THE SWITCH

- NOTES:
1. REFER TO SESS[®] SWITCH INTEGRATED SERVICES DIGITAL NETWORK, CUSTOMER PREMISES PLANNING GUIDE, DOCUMENT NUMBER AT&T 533-700-100 FOR ADDITIONAL INFORMATION.
 2. THE ESA CAN SUPPORT UP TO 8 PAIRS OF API LINKS. AFTER 4 PAIRS ONE OR TWO ADDITIONAL 4 PORT SYNC BOARDS WILL BE REQUIRED ALONG WITH THE APPROPRIATE CABLES.

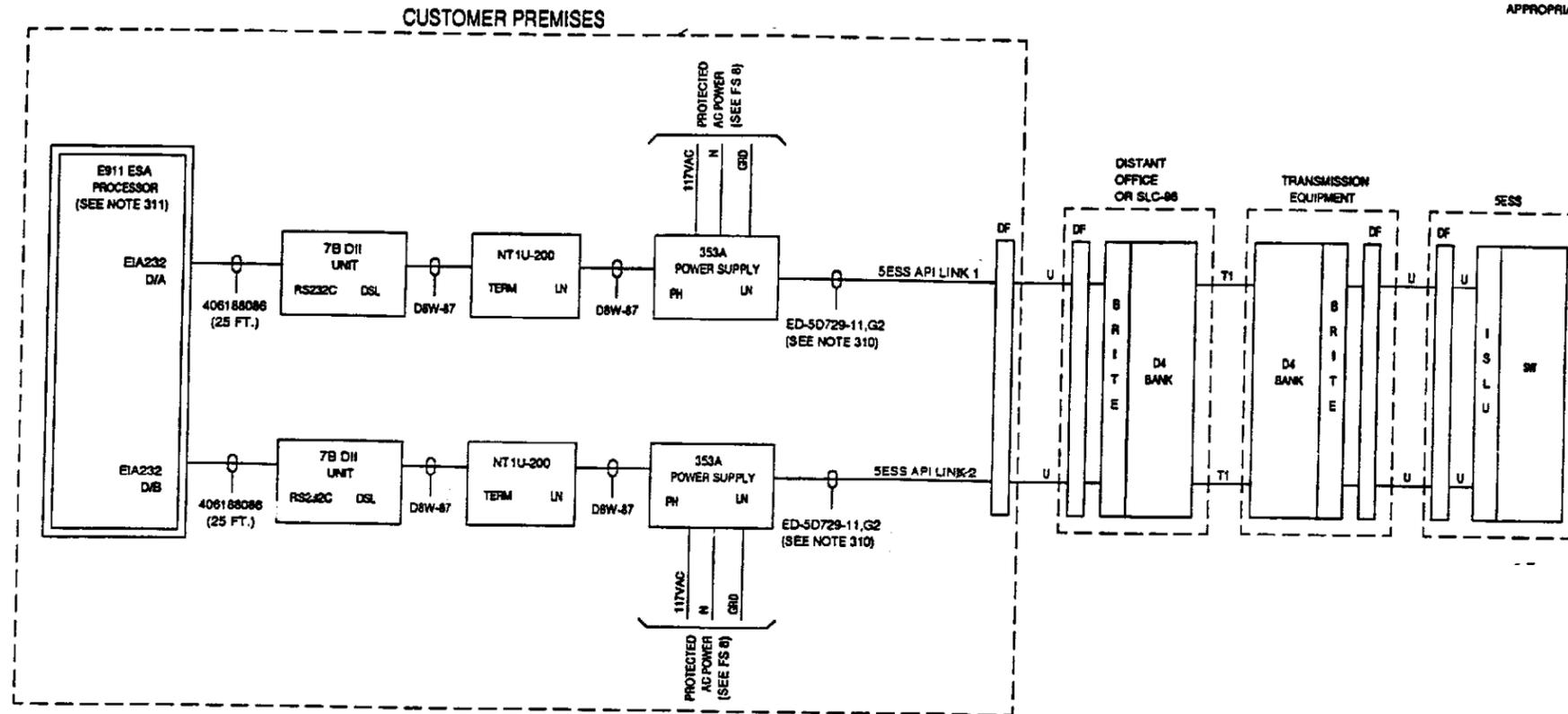


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ENHANCED 911 SERVICE ADJUNCT (ESA)		DWG SIZE C2
AT&T		ISSUE 6M
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P/O FS 1

API LINK CONFIGURATION
 TYPICAL ARRANGEMENT FOR INTERFACING
 THE E911 ESA PROCESSOR TO THE SESS SWITCH
 WHEN THE PROCESSOR IS NOT CO-LOCATED WITH THE SWITCH
 BUT IS LOCATED GREATER THAN 8.5KM FROM THE SWITCH

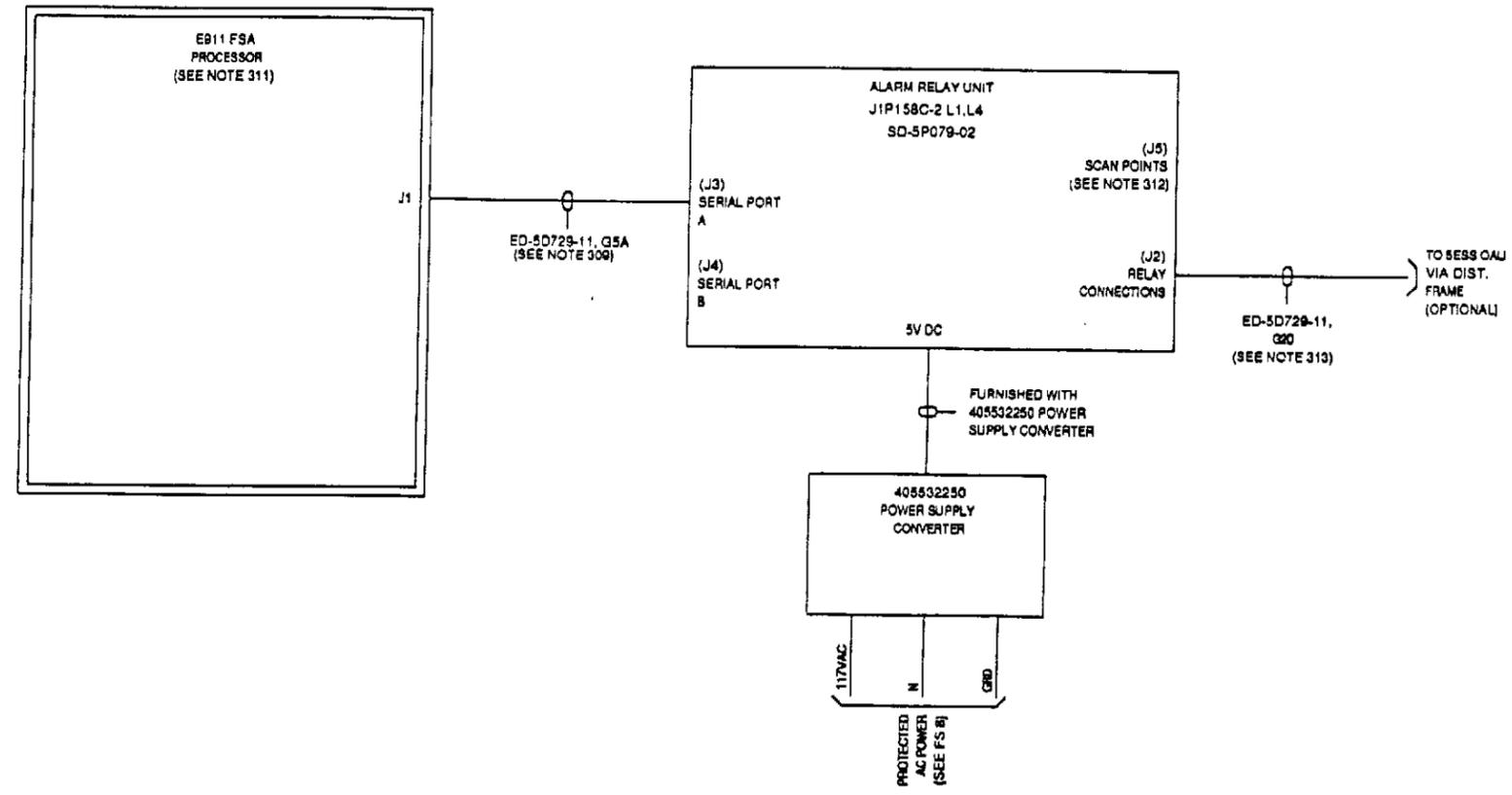
- NOTES:
1. REFER TO SESS[®] SWITCH INTEGRATED SERVICES DIGITAL NETWORK CUSTOMER PREMISES PLANNING GUIDE, DOCUMENT NUMBER AT&T 533-700-100 FOR ADDITIONAL INFORMATION.
 2. THE ESA CAN SUPPORT UP TO 8 PAIRS OF API LINKS. AFTER 4 PAIRS ONE OR TWO ADDITIONAL 4 PORT SYNC BOARDS WILL BE REQUIRED ALONG WITH THE APPROPRIATE CABLES.



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FS 2

ESA TO ALARM RELAY UNIT
TYPICAL ARRANGEMENT FOR INTERFACING
TO THE E911 ESA PROCESSOR

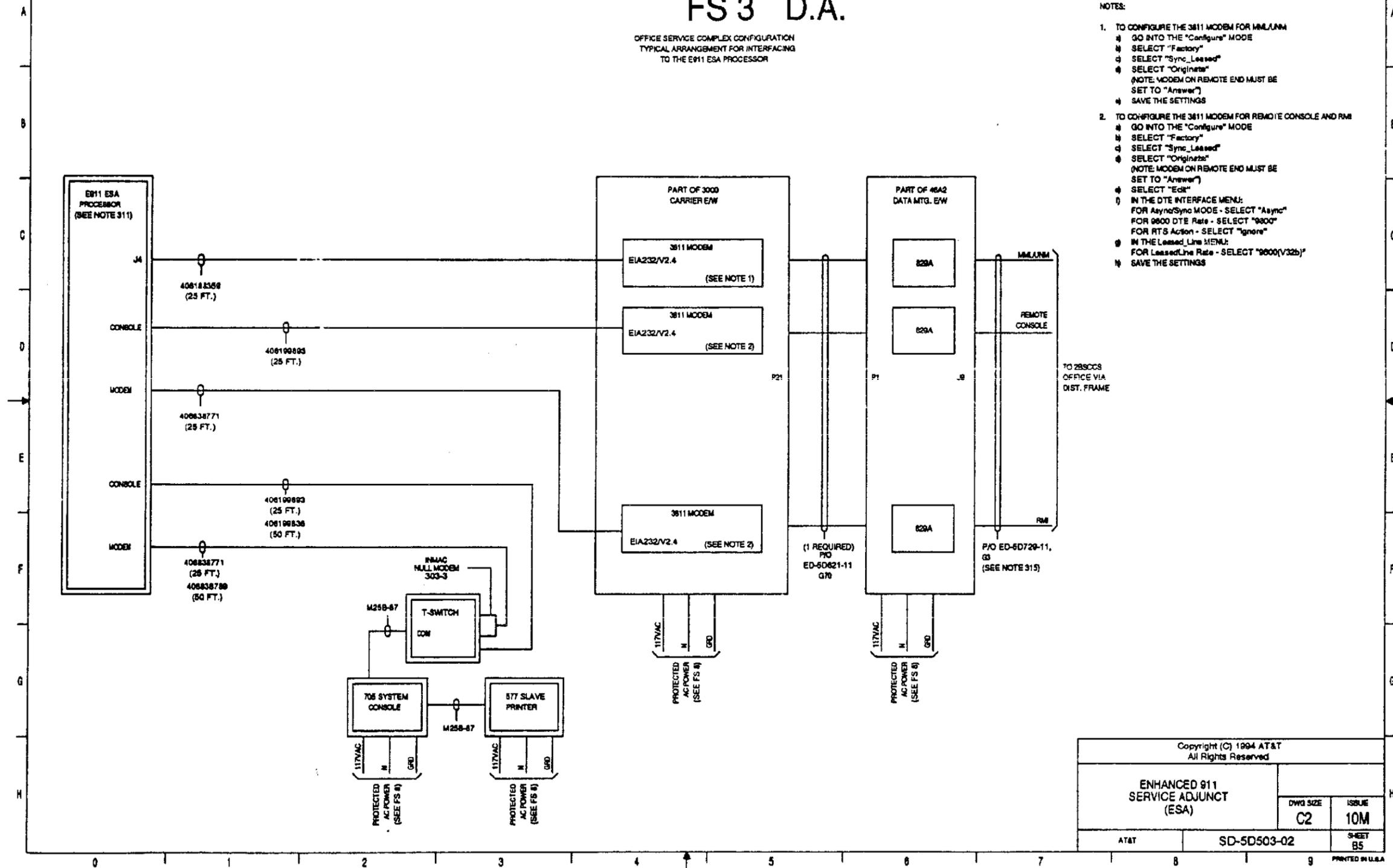


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FS 3 D.A.

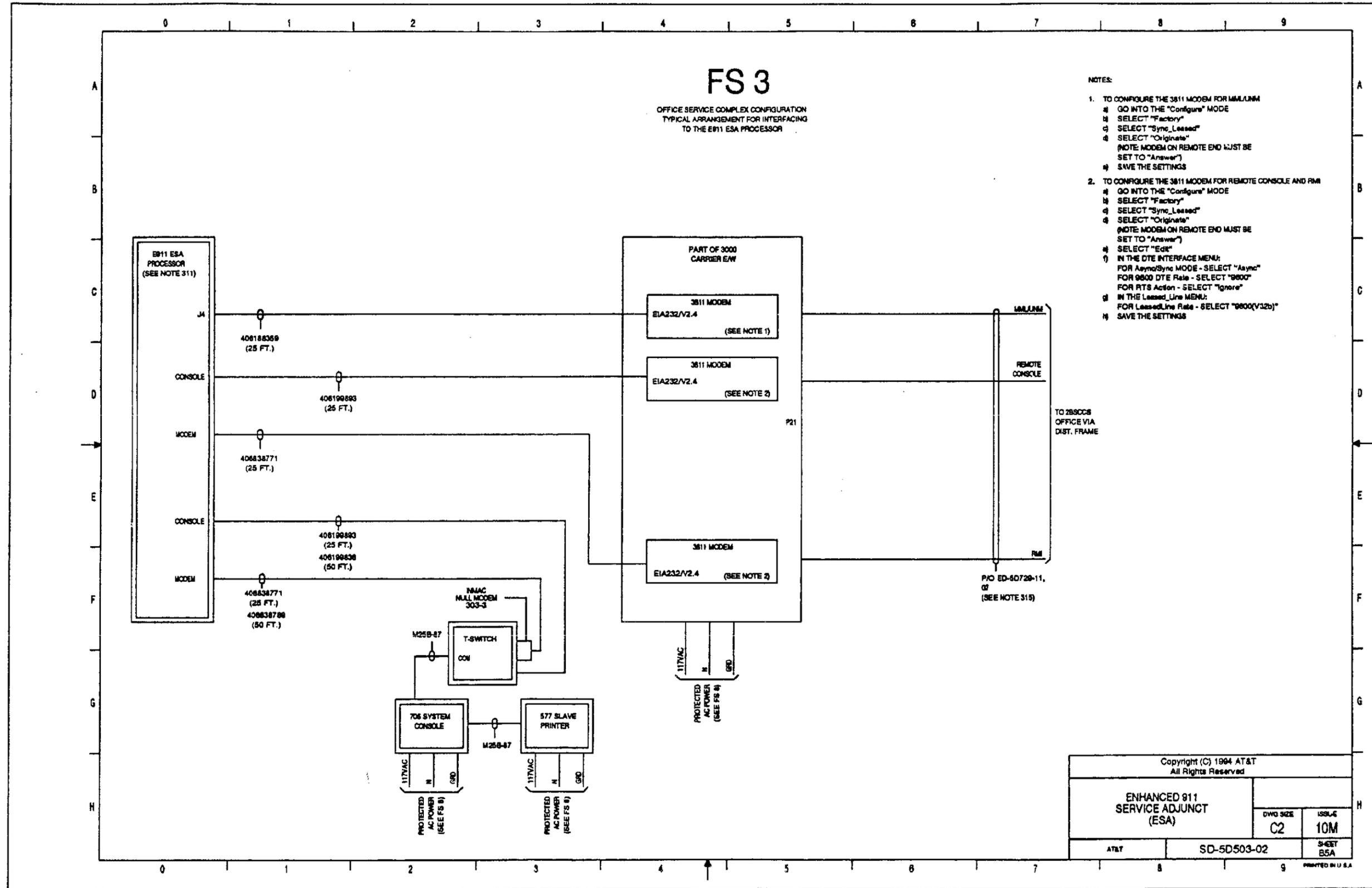
OFFICE SERVICE COMPLEX CONFIGURATION
TYPICAL ARRANGEMENT FOR INTERFACING
TO THE E911 ESA PROCESSOR



- NOTES:
- TO CONFIGURE THE 3811 MODEM FOR MML/AMA
 - GO INTO THE "Configure" MODE
 - SELECT "Factory"
 - SELECT "Sync_Leased"
 - SELECT "Originate"
 - (NOTE: MODEM ON REMOTE END MUST BE SET TO "Answer")
 - SAVE THE SETTINGS
 - TO CONFIGURE THE 3811 MODEM FOR REMOTE CONSOLE AND RML
 - GO INTO THE "Configure" MODE
 - SELECT "Factory"
 - SELECT "Sync_Leased"
 - SELECT "Originate"
 - (NOTE: MODEM ON REMOTE END MUST BE SET TO "Answer")
 - SELECT "Edit"
 - IN THE DTE INTERFACE MENU:
 - FOR Async/Async MODE - SELECT "Async"
 - FOR 9600 DTE Rate - SELECT "9600"
 - FOR RTS Action - SELECT "Ignore"
 - IN THE Leased_Line MENU:
 - FOR Leased_Line Rate - SELECT "9600(V32b)"
 - SAVE THE SETTINGS

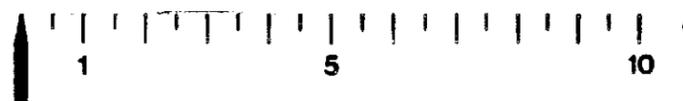
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		ISSUE 10M
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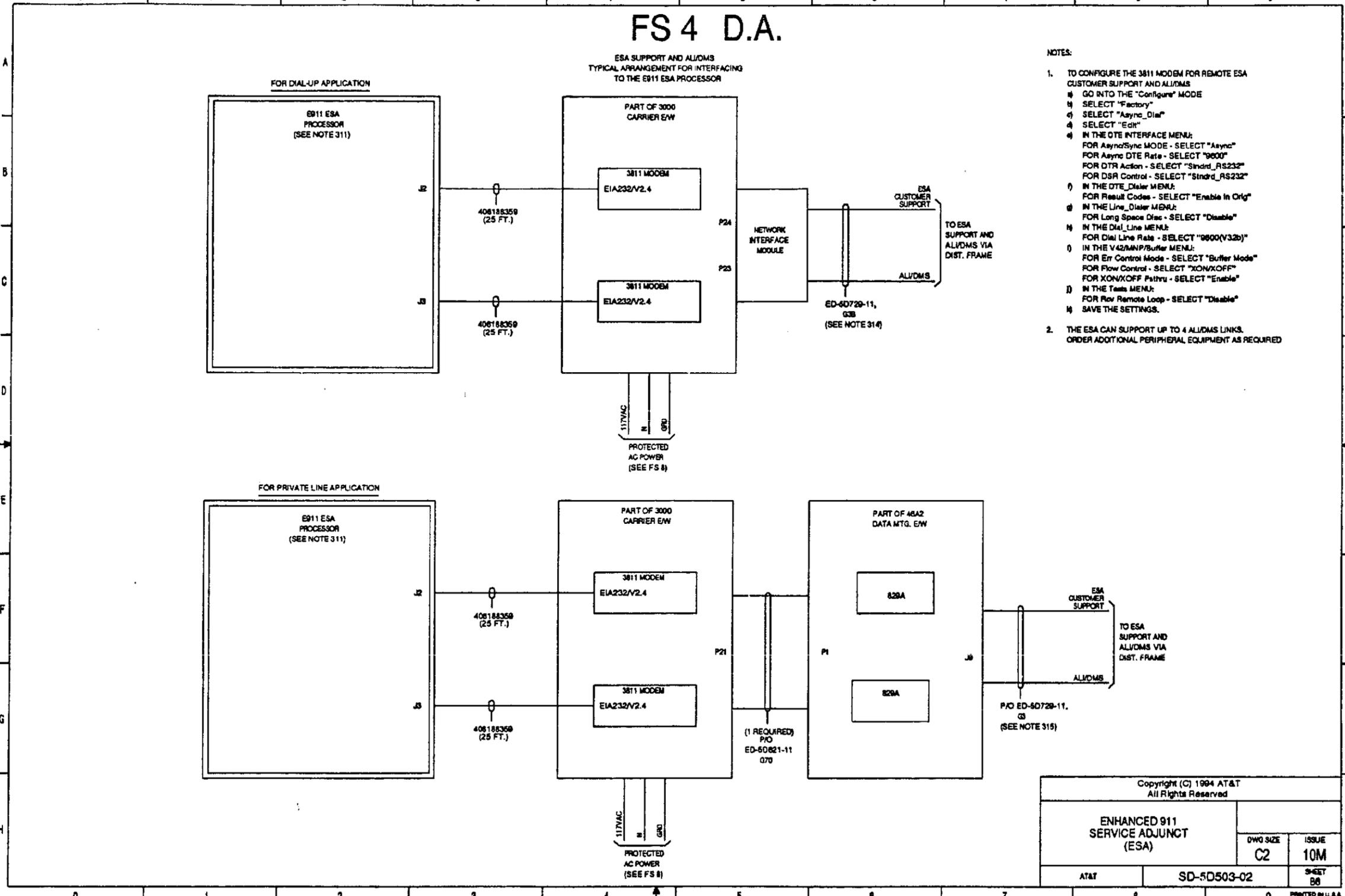
B

FS 4 D.A.

ESA SUPPORT AND ALL/DMS
TYPICAL ARRANGEMENT FOR INTERFACING
TO THE 9111 ESA PROCESSOR

NOTES:

- TO CONFIGURE THE 3811 MODEM FOR REMOTE ESA CUSTOMER SUPPORT AND ALL/DMS
 - 1) GO INTO THE "Configure" MODE
 - 2) SELECT "Factory"
 - 3) SELECT "Async_Dial"
 - 4) SELECT "Edt"
 - 5) IN THE DTE INTERFACE MENU:
 - FOR Async/Async MODE - SELECT "Async"
 - FOR Async DTE Rate - SELECT "9600"
 - FOR DTR Action - SELECT "Stdnd_RS232"
 - FOR DSR Control - SELECT "Stdnd_RS232"
 - 6) IN THE DTE_Dialer MENU:
 - FOR Result Codes - SELECT "Enable In Orig"
 - 7) IN THE Line_Dialer MENU:
 - FOR Long Space Disc - SELECT "Disable"
 - 8) IN THE Dial_Line MENU:
 - FOR Dial Line Rate - SELECT "9600(V32b)"
 - 9) IN THE V42/MNP/Buffer MENU:
 - FOR Err Control Mode - SELECT "Buffer Mode"
 - FOR Flow Control - SELECT "XON/XOFF"
 - FOR XON/XOFF Psthr - SELECT "Enable"
 - 10) IN THE Tests MENU:
 - FOR Rev Remote Loop - SELECT "Disable"
 - 11) SAVE THE SETTINGS.
- THE ESA CAN SUPPORT UP TO 4 ALL/DMS LINKS.
ORDER ADDITIONAL PERIPHERAL EQUIPMENT AS REQUIRED



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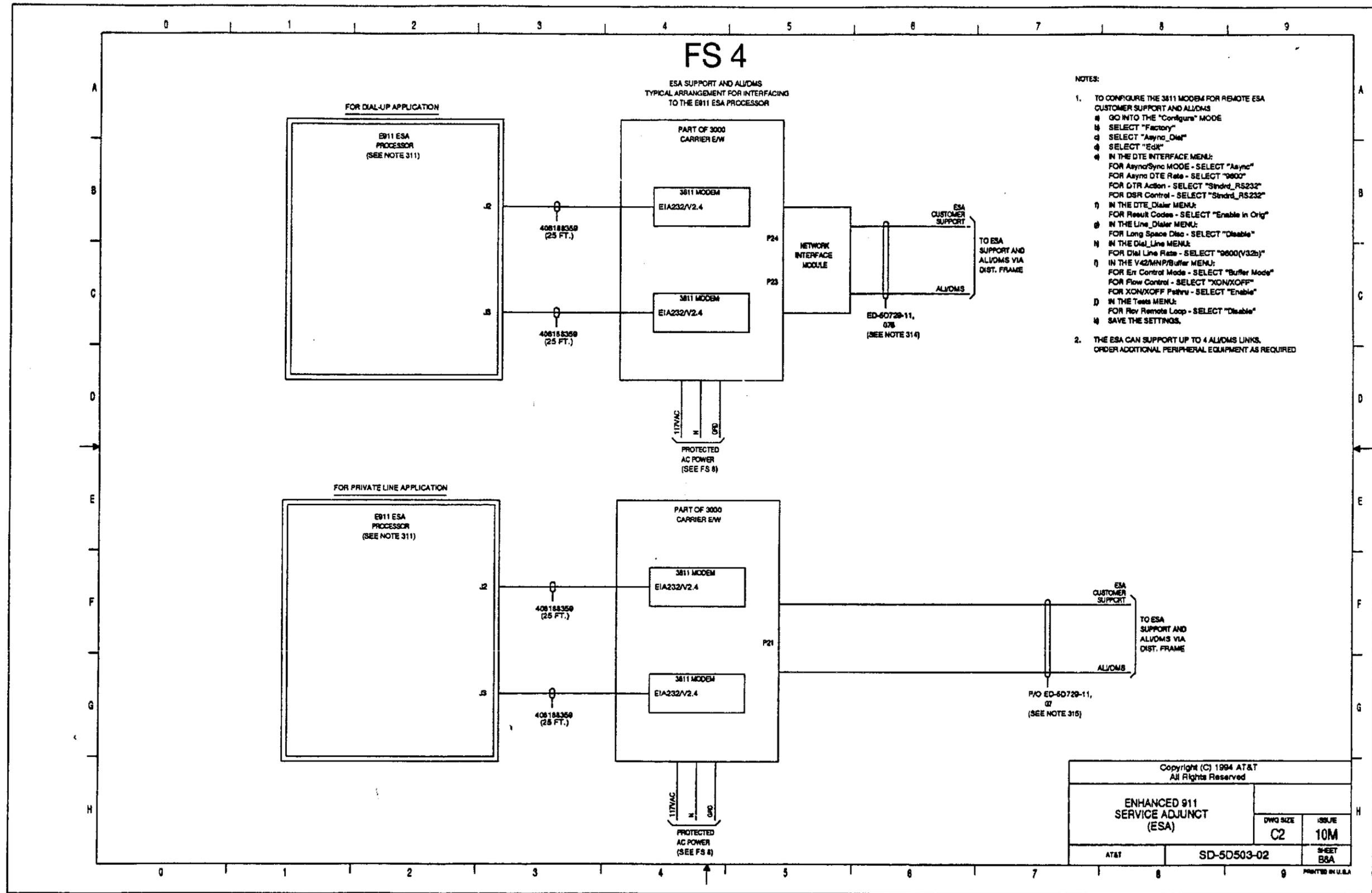
ENHANCED 911 SERVICE ADJUNCT (ESA)

DWG SIZE	ISSUE
C2	10M

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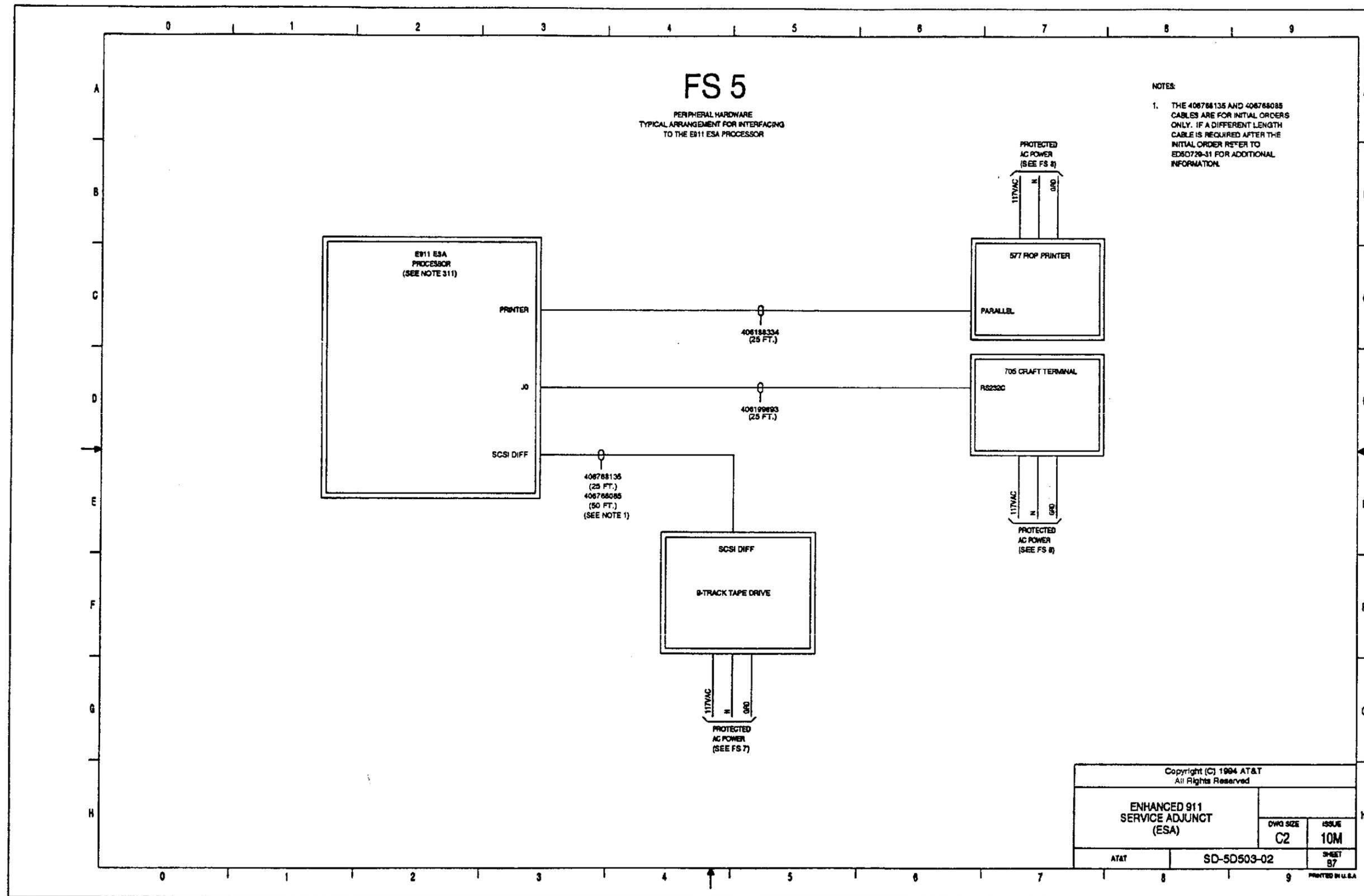
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FS 5
 PERIPHERAL HARDWARE
 TYPICAL ARRANGEMENT FOR INTERFACING
 TO THE E811 ESA PROCESSOR

NOTES:
 1. THE 406768135 AND 406768085 CABLES ARE FOR INITIAL ORDERS ONLY. IF A DIFFERENT LENGTH CABLE IS REQUIRED AFTER THE INITIAL ORDER REFER TO EDS0729-31 FOR ADDITIONAL INFORMATION.

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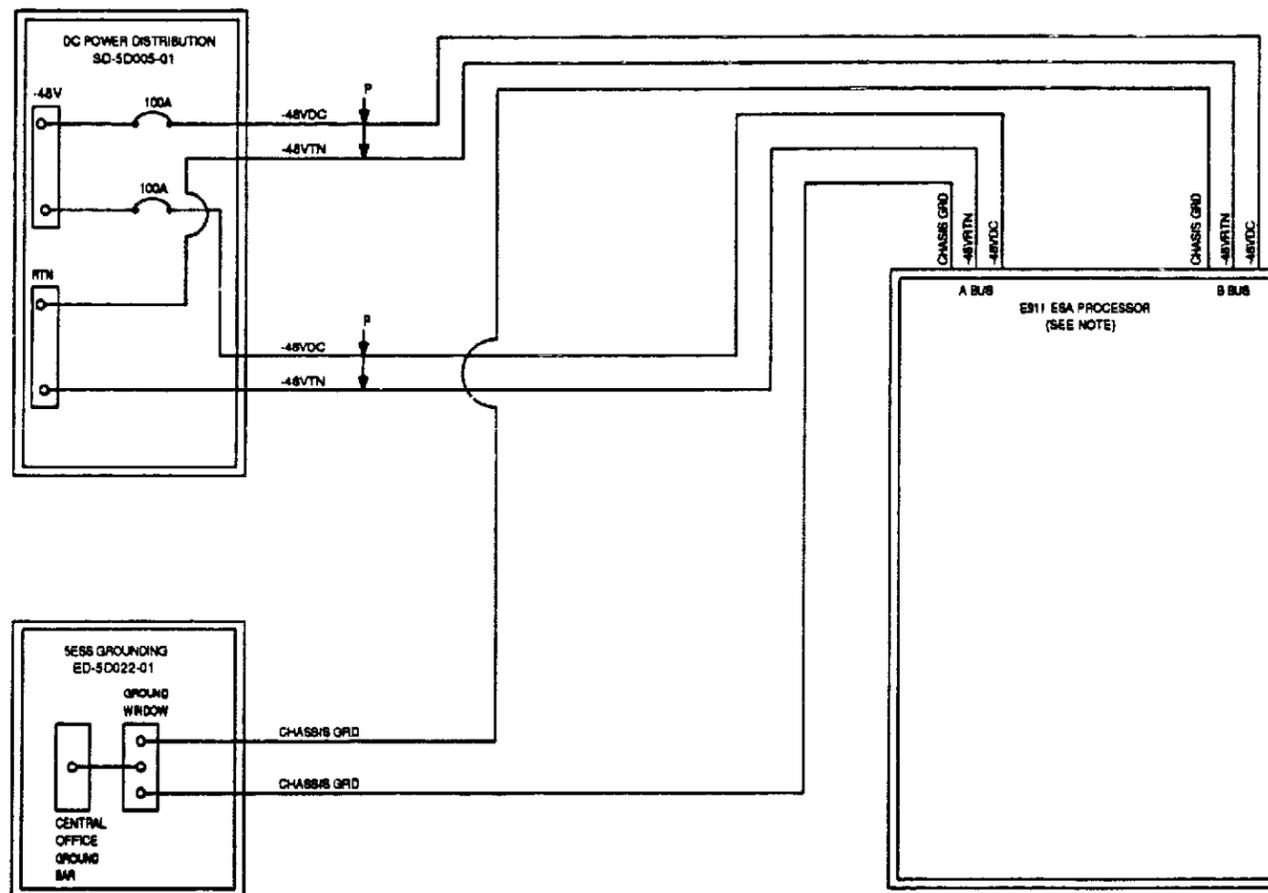


P/O FS 6

ESA POWER DIAGRAM
(FOR CENTRAL OFFICE APPLICATIONS)

NOTES:

1. REFER TO SITE PREPARATION GUIDE 533-402-103 FOR TERMINATION OF POWER AND GROUND CABLES
2. THE USE OF 1/0 AWG INSULATED STRANDED COPPER WIRES IN EACH OF TWO GO CABINET POWER FEED SETS IS RECOMMENDED TO MAINTAIN LOW VOLTAGE DROP OVER RELATIVELY LONG DISTANCES. CABLE CONNECTOR LUGS PROVIDED WITH THE CABINET ARE DESIGNED FOR 1/0 AWG WIRE. USE OF ANY OTHER SIZE WIRE MAY REQUIRE DIFFERENT CONNECTOR LUGS BE SUPPLIED.



CENTRAL OFFICE MODEL SYSTEM CABINET					
AMPS AT -32.08V	AMPS AT -40.00V	ONE WAY DISTANCE (FEET)			
		25 FT	50 FT	75 FT	100 FT
29 BA	54.4A	#6 AWG	#2 AWG	#1 AWG	#1/0 AWG

(SEE NOTE 2)

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ENHANCED 911
SERVICE ADJUNCT
(ESA)

DWG SIZE C2	ISSUE 9B
AT&T	SD-5D503-02
SHEET B6	

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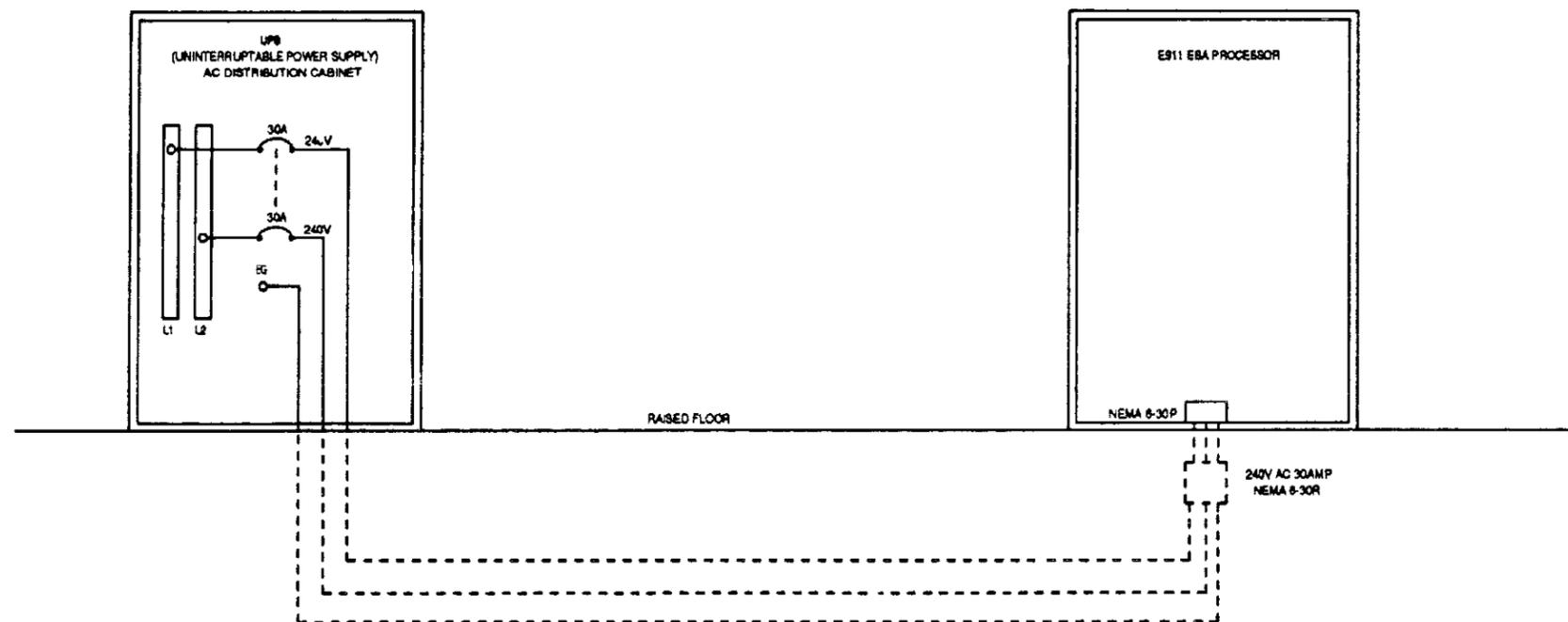


P/O FS 6

ESA POWER DIAGRAM
(FOR NON-CENTRAL OFFICE APPLICATIONS)

NOTES:

1. THE CONNECTIONS BETWEEN THE UPC AND THE EP11 ESA PROCESSOR MUST BE SECURE SO THAT THE SYSTEM CANNOT BE INADVERTENTLY POWERED DOWN.
2. RUN AC FEED IN METALLIC CONDUIT, SIZED PER NEC 90.
3. VOLTAGE DROP 2% ASSUMED.



NON-CENTRAL OFFICE MODEL SYSTEM CABINET						
AMPS AT 240 VAC	AMPS AT 180 VAC	ONE WAY DISTANCE (FEET)				
		25 FT	50 FT	75 FT	100 FT	150 FT
13.5A	17.5A	#12 AWG	#12 AWG	#10 AWG	#8 AWG	#6 AWG

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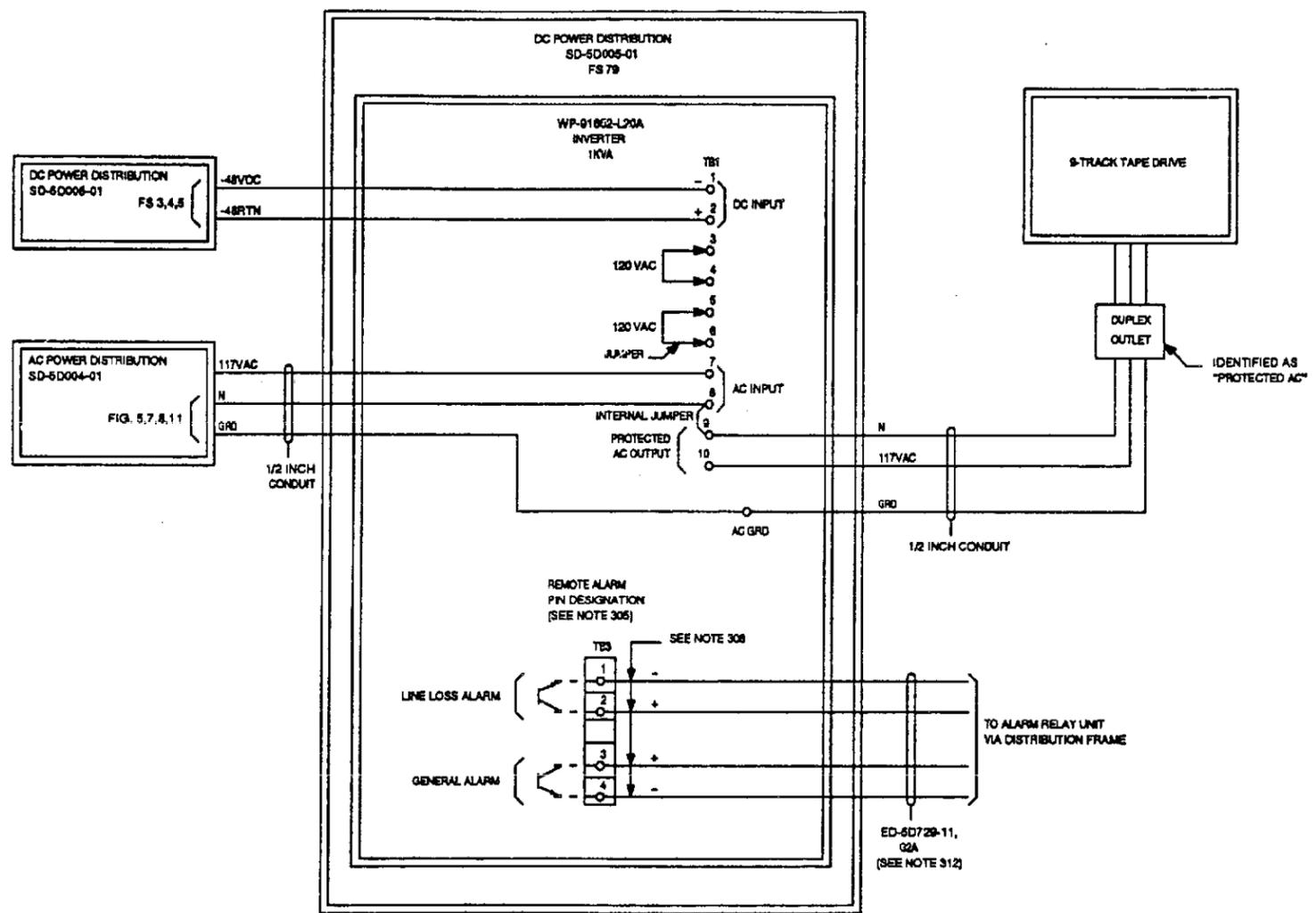
ENHANCED 911
SERVICE ADJUNCT
(ESA)

DWG SIZE	ISSUE
C2	9B
AT&T	SHEET
SD-SD503-02	88

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P/O FS 7 D.A.

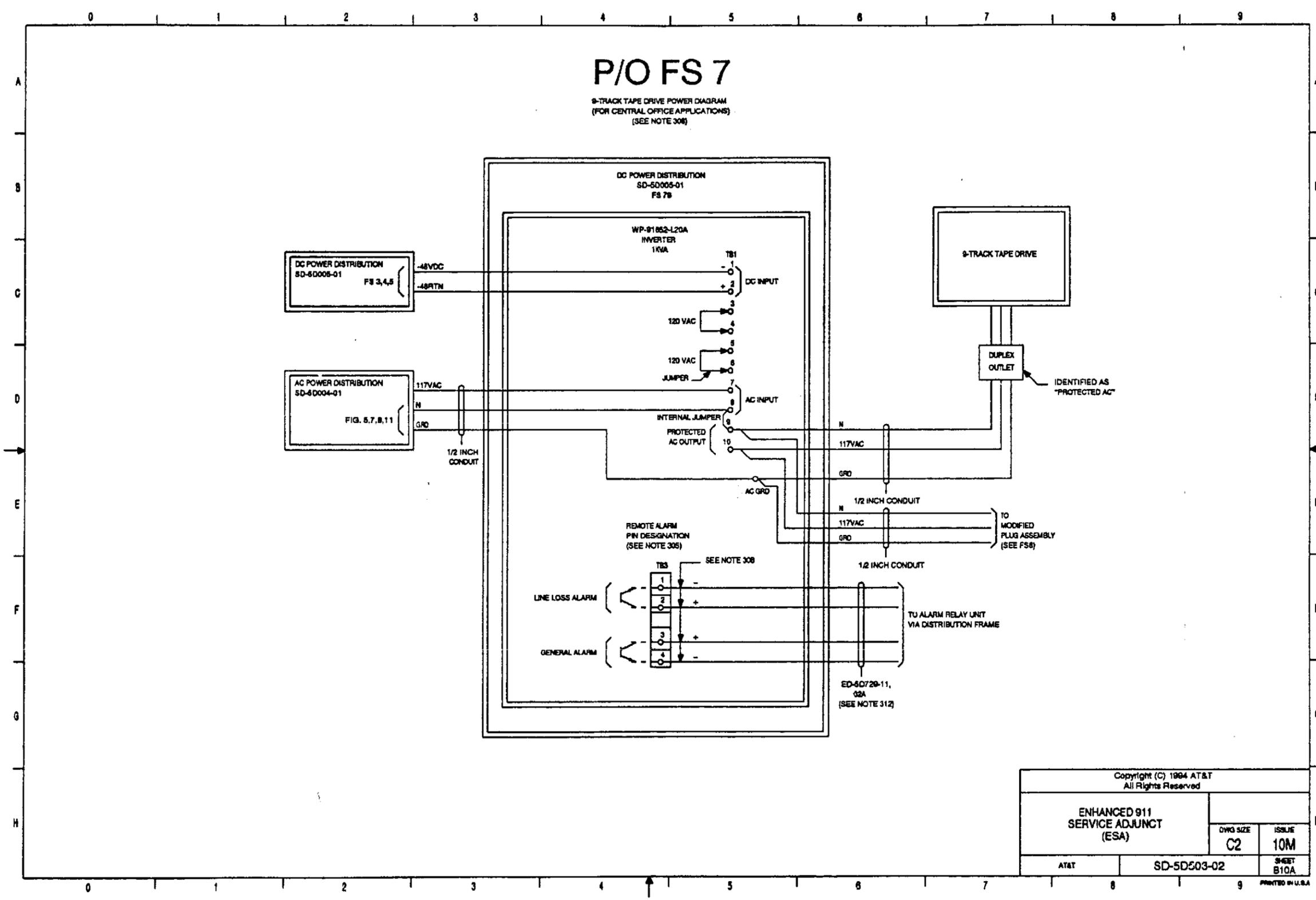
9-TRACK TAPE DRIVE POWER DIAGRAM
(FOR CENTRAL OFFICE APPLICATIONS)



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AT&T		ISSUE 10M
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P/O FS 7

9-TRACK TAPE DRIVE POWER DIAGRAM
(FOR CENTRAL OFFICE APPLICATIONS)
(SEE NOTE 308)



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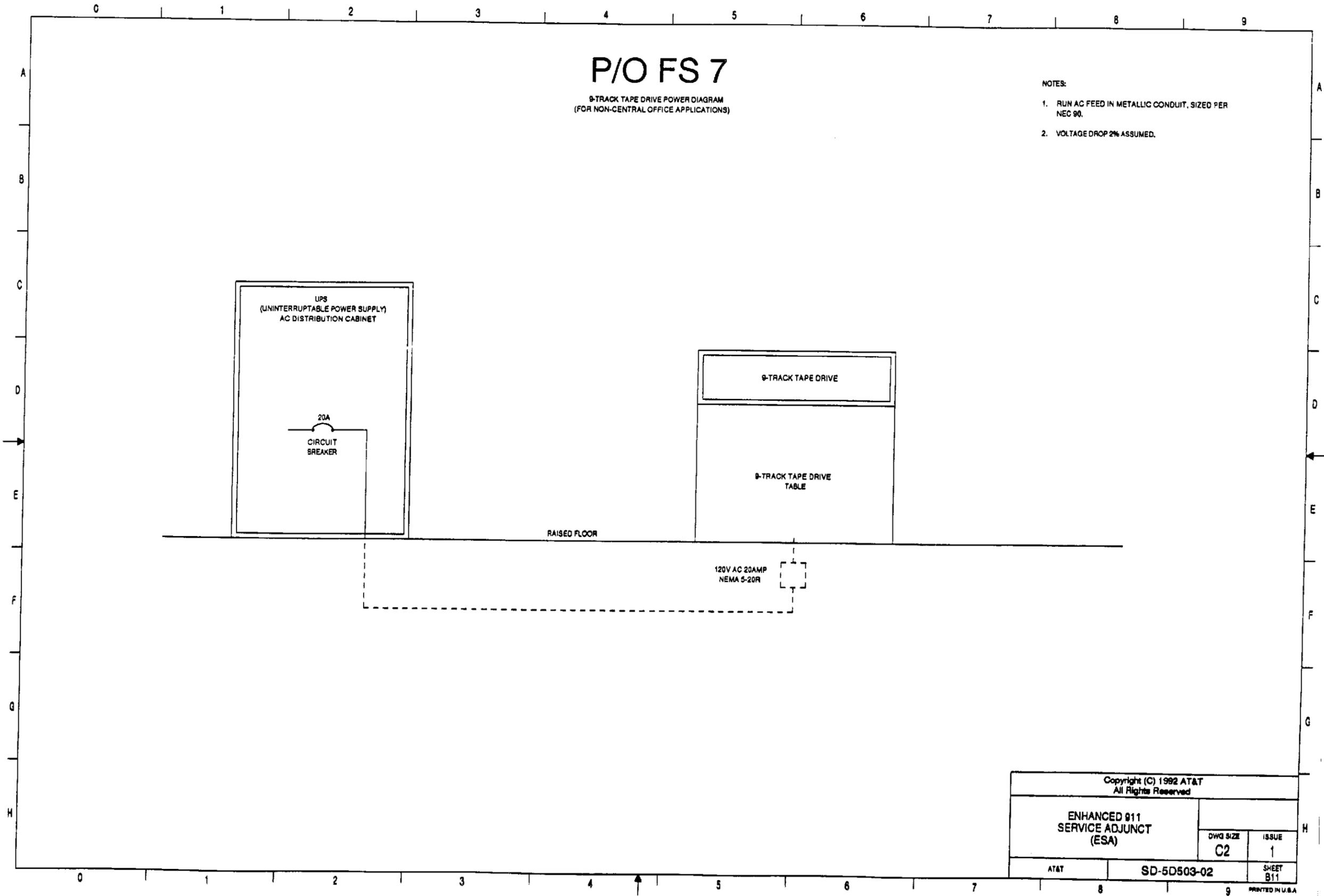
B

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P/O FS 7

9-TRACK TAPE DRIVE POWER DIAGRAM
(FOR NON-CENTRAL OFFICE APPLICATIONS)

NOTES:

1. RUN AC FEED IN METALLIC CONDUIT, SIZED PER NEC 90.
2. VOLTAGE DROP 2% ASSUMED.

UPS
(UNINTERRUPTIBLE POWER SUPPLY)
AC DISTRIBUTION CABINET

20A
CIRCUIT BREAKER

9-TRACK TAPE DRIVE

9-TRACK TAPE DRIVE
TABLE

RAISED FLOOR

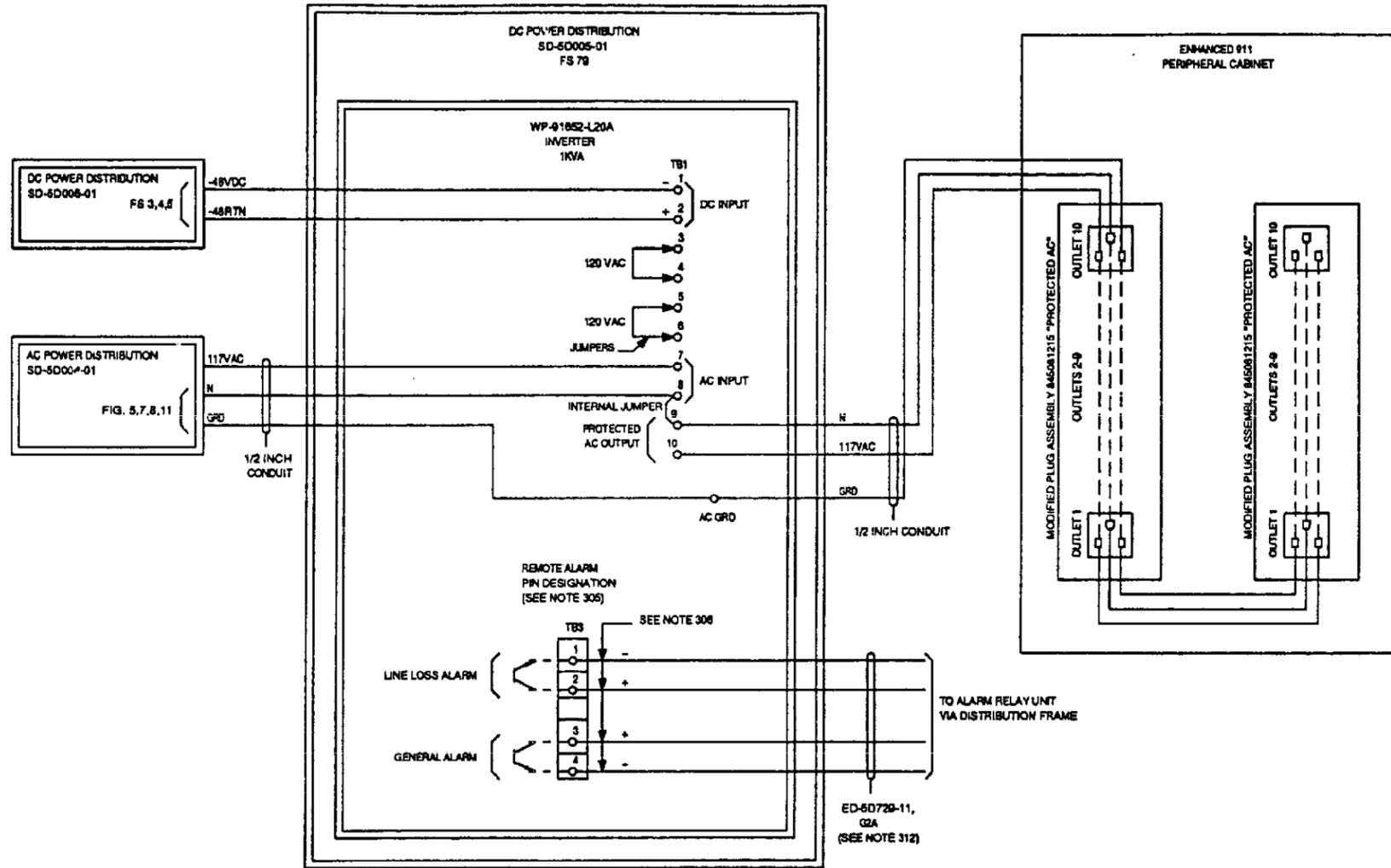
120V AC 20AMP
NEMA 5-20R

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ENHANCED 811 SERVICE ADJUNCT (ESA)		DWG SIZE C2
AT&T	SD-5D503-02	ISSUE 1
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P/O FS 8 D.A.

"PROTECTED AC POWER"
 ENHANCED 911 PERIPHERAL CABINET
 (FOR CENTRAL OFFICE APPLICATIONS)

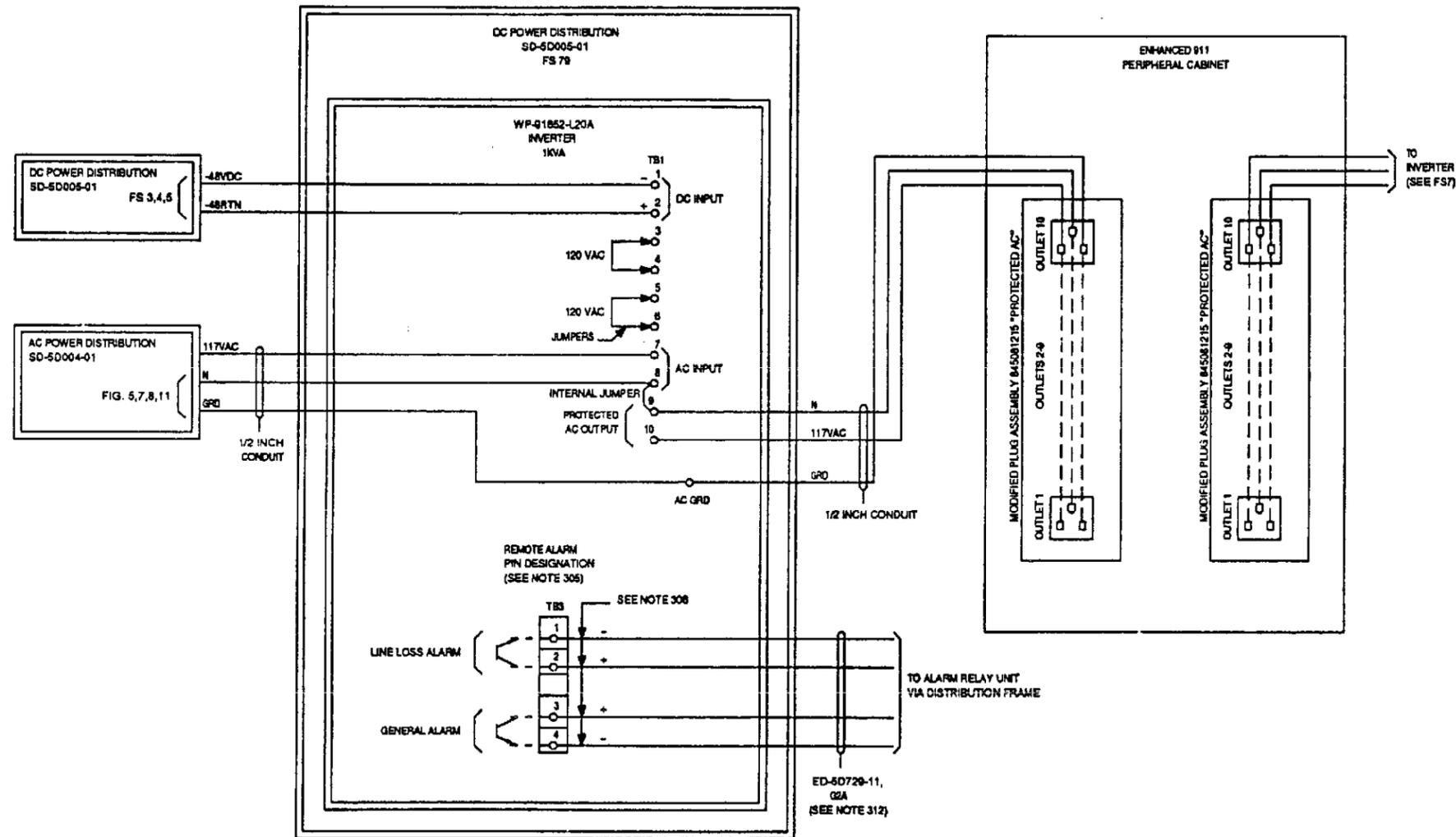


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ENHANCED 911 SERVICE ADJUNCT (ESA)		DWG SIZE C2
		ISSUE 10M
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P/O FS 8

"PROTECTED AC POWER"
 ENHANCED 911 PERIPHERAL CABINET
 (FOR CENTRAL OFFICE APPLICATIONS)
 (SEE NOTE 308)



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AT&T	SD-5D503-02	SHEET B12A	

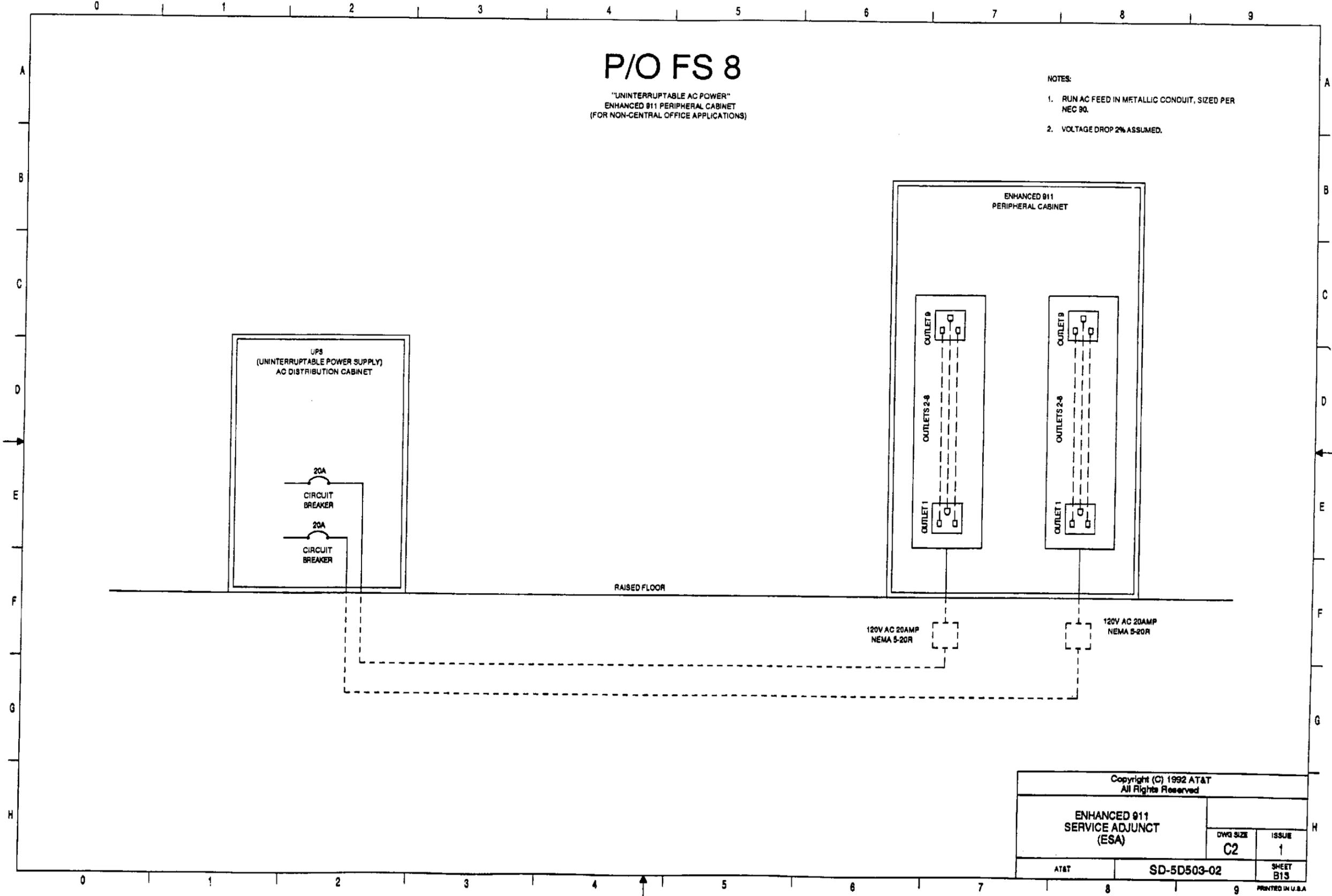
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P/O FS 8

"UNINTERRUPTIBLE AC POWER"
 ENHANCED 911 PERIPHERAL CABINET
 (FOR NON-CENTRAL OFFICE APPLICATIONS)

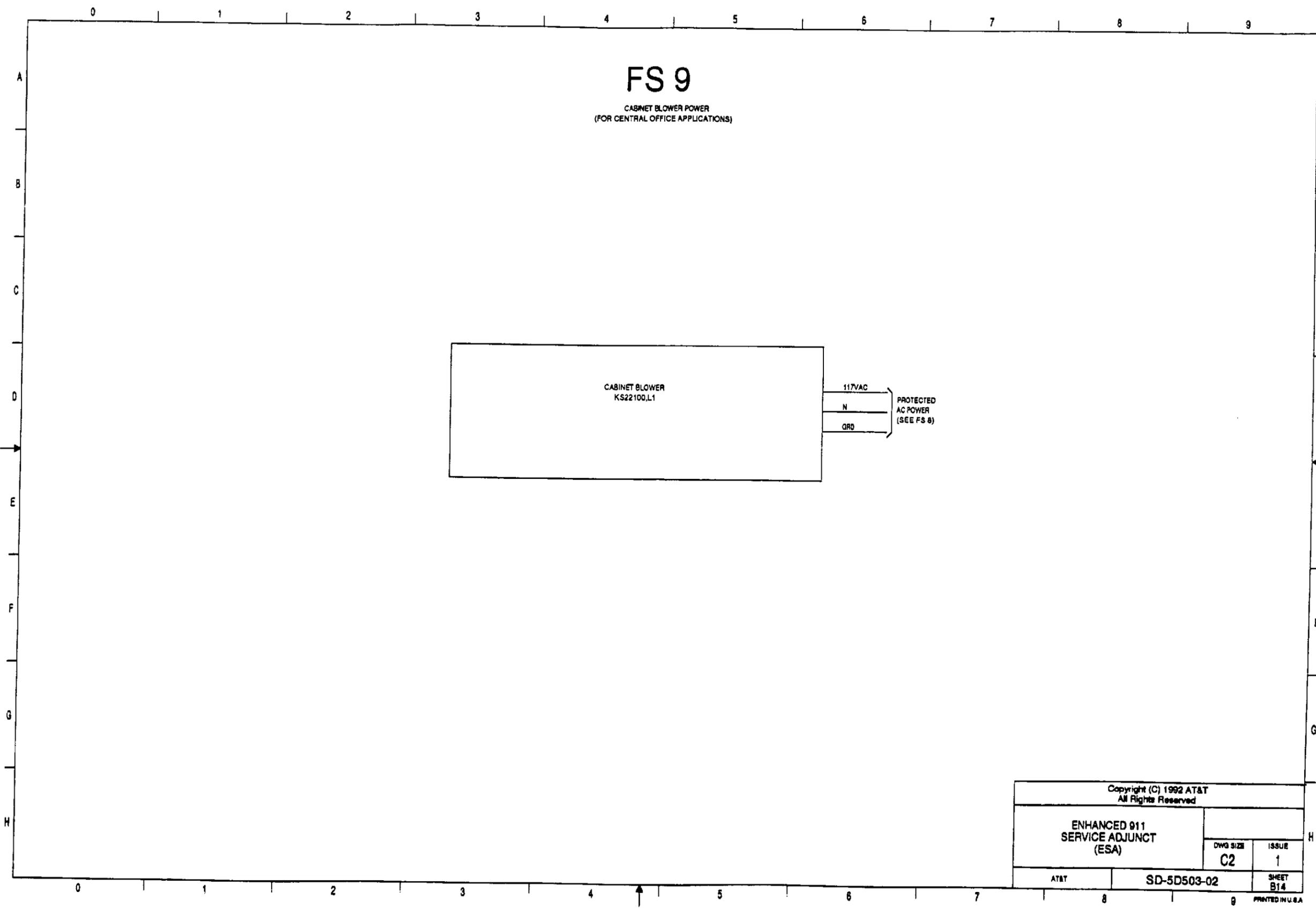
NOTES:

1. RUN AC FEED IN METALLIC CONDUIT, SIZED PER NEC 90.
2. VOLTAGE DROP 2% ASSUMED.



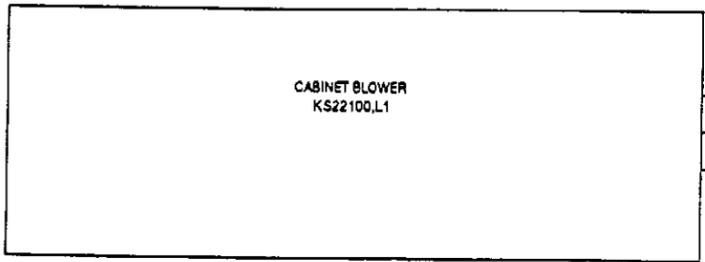
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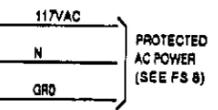


FS 9

CABINET BLOWER POWER
(FOR CENTRAL OFFICE APPLICATIONS)

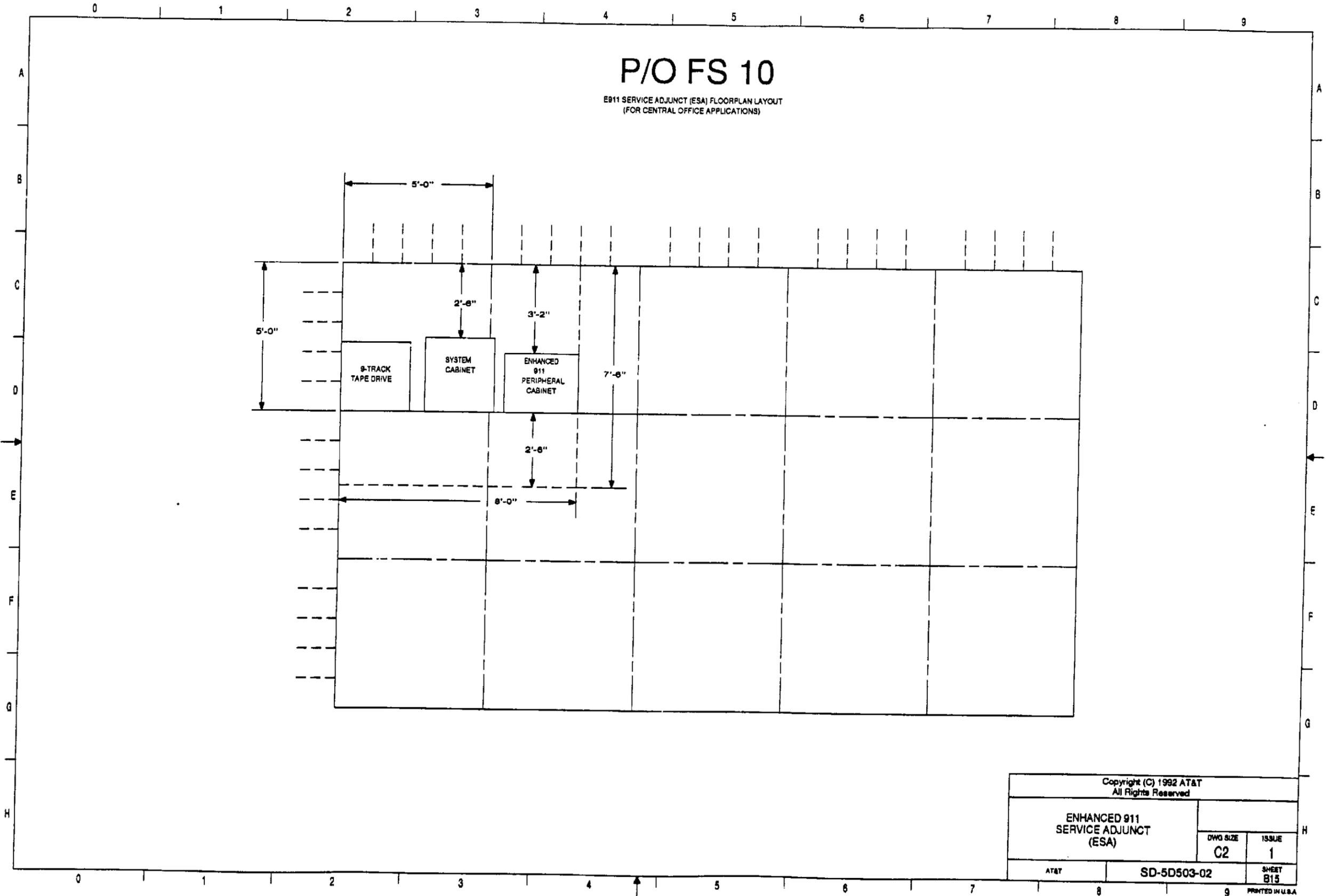


CABINET BLOWER
KS22100.L1

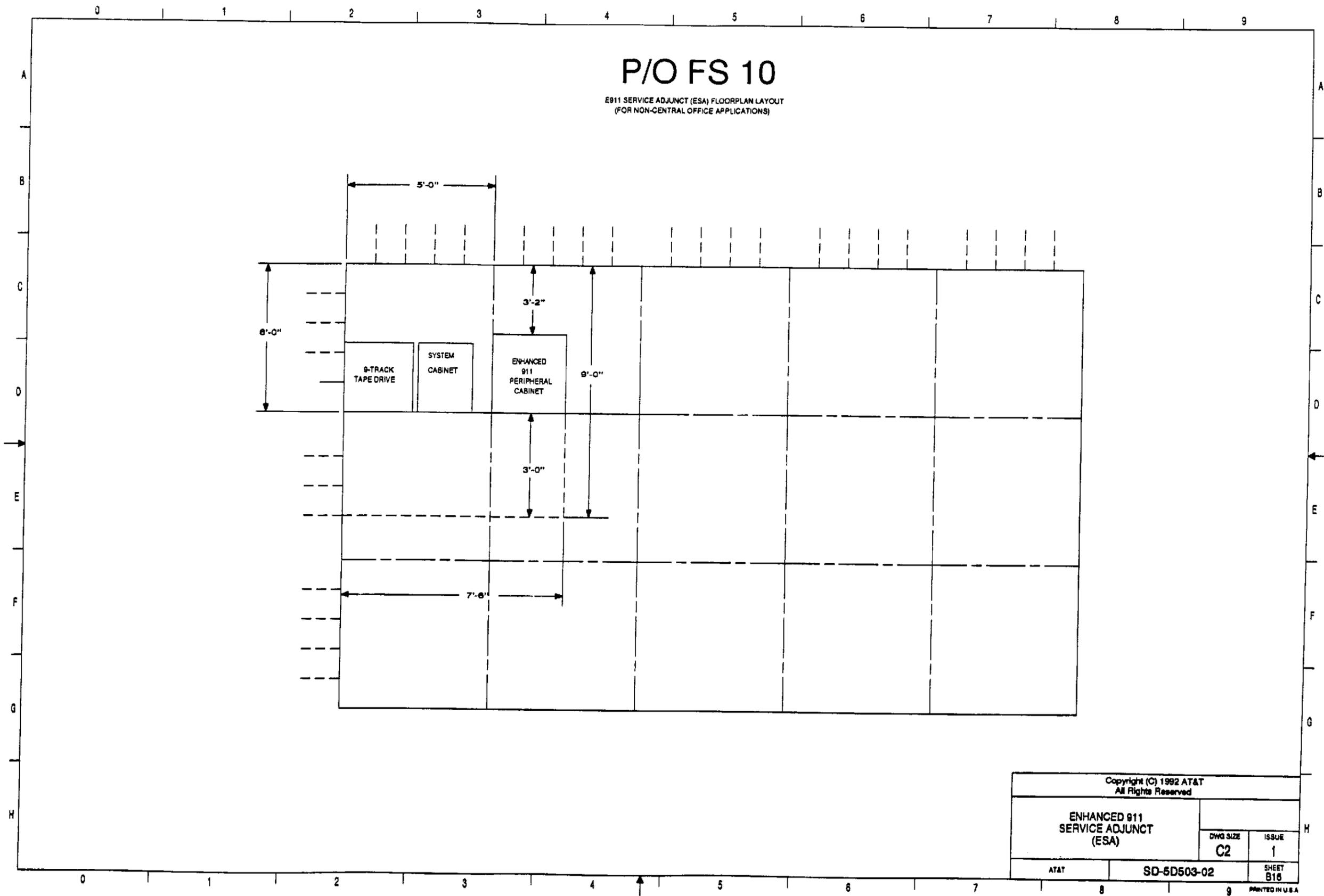


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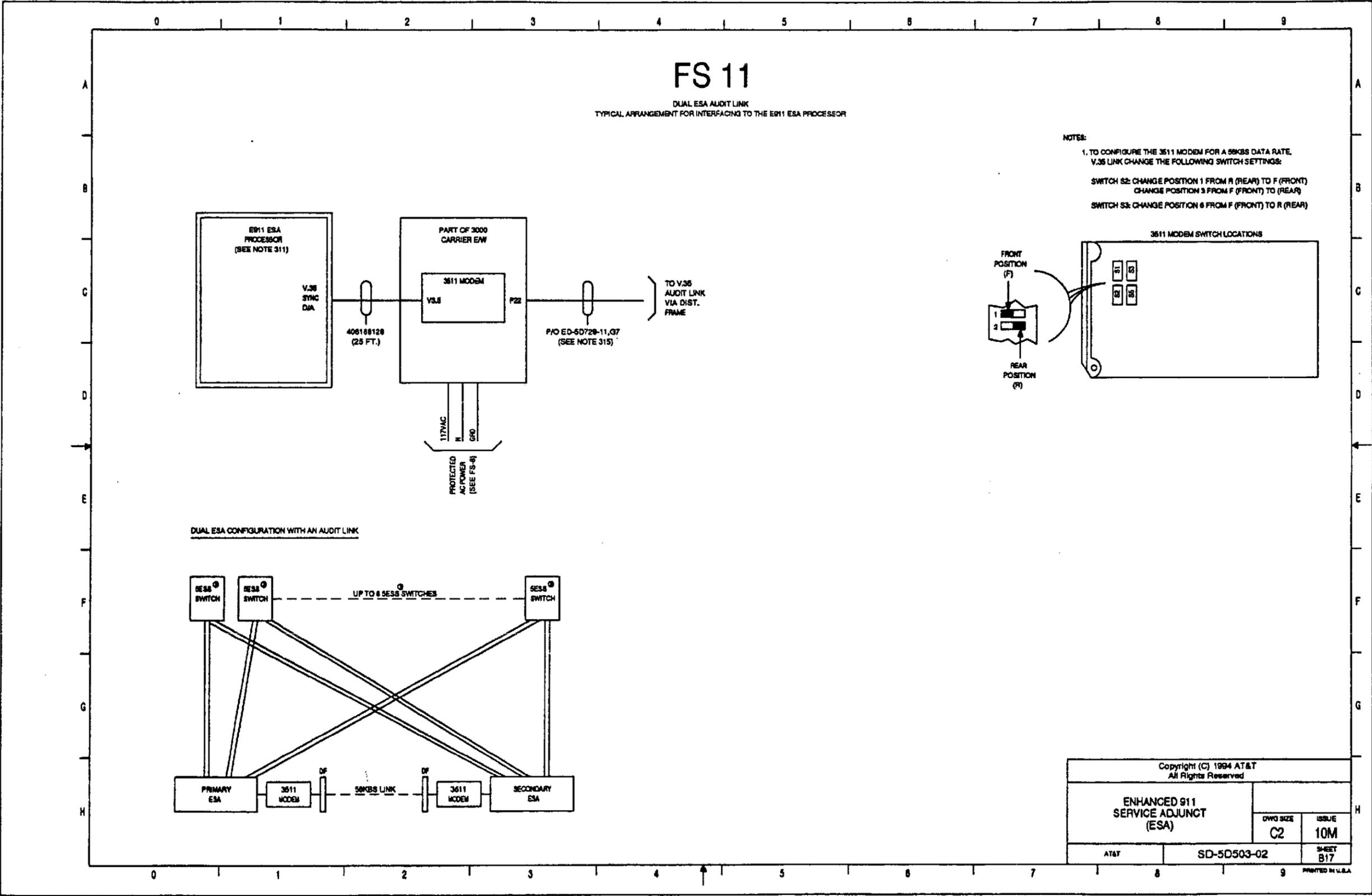
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APP FIG. 1

<u>OPT</u>	<u>DESG</u>	<u>LOC</u>	<u>CODE</u>
	DIRECT INTELLIGENCE INTERFACE	1C4,1D4, 2D5,3D2	7B-D11
	POWER SUPPLY	1C8,1D8, 2D6,3D4	353A
	ALARM RELAY UNIT	3D5,4D5	J1P158C-2 L1,L4
	9-TRACK TAPE DRIVE	6F5,8B7 7F4,11D5,10C7	974S-KD14-V001

APP FIG. 2

<u>OPT</u>	<u>DESG</u>	<u>LOC</u>	<u>CODE</u>
	CARRIER	4C4,5C4,7C2, 8B4,8E4	3000 SERIES
	MODEM	4C4,5C4, 8B4,8E4	3811-B1-001
	NETWORK INTERFACE MODULE	5D8,8B5	3000-F1-003
	SHARED DIAGNOSTIC CONTROL PANEL	4B5,5C5, 5C4,8B4,8E4	3000-F1-001
	MODULE FAN	4B5,5C5, 5C4,8B4,8E4	3000-F1-007
	AC (110) POWER SUPPLY	4B5,5C5, 5C4,8B4,8E4	3000-F1-002
	MODEM	17C2	3811-B1-002

APP FIG. 3

<u>OPT</u>	<u>DESG</u>	<u>LOC</u>	<u>CODE</u>
	PRINTER	5Q3,7C7, 4Q3,8C7	577
	TERMINAL	5Q2,7D7, 4Q3,8D7	705 MT
	T-SWITCH	4F3,5F3	INMAC INC. #080001
	NULL MODEM		INMAC 303-3

APP FIG. 4

<u>OPT</u>	<u>DESG</u>	<u>LOC</u>	<u>CODE</u>
	ESA PROCESSOR (-48V RACK MOUNTED)	1C2,2C1, 3C1,4C0, 5C1,8B2,8E2, 7C2,8D4,17C1	9734-3342-8100
	1KVA DC TO AC INVERTER	10C4,12C4	WP-91882,L20A,108
	BLOWER CABINET	14D4	K922100,L1

APP FIG. 5

<u>OPT</u>	<u>DESG</u>	<u>LOC</u>	<u>CODE</u>
	ESA PROCESSOR (240V RACK MOUNTED)	1C2,2C1, 3C1,4C0, 5C1,8B2,8E2, 7C2,8C8,17C1	9734-3341-8100
	NETWORK TERMINATOR	2D4,3D5	NT1U-200

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CIRCUIT NOTES:

101.

DESIG	FUSE AMP	POTENTIAL	ONE PER
BATTERY SYMBOL		VOLTAGE RANGE	

102.

NETWORK		NETWORK VALUES	
NO.	CODE	RESISTANCE IN OHMS	CAPACITANCE IN UF

EQUIPMENT NOTES:

201.

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.

FEATURE OR OPTION	PROVIDE	
	APP FIG	APP OR JRG

303.

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	
				AVAIL	DA

304. ISOLATION GROUNDING IS REQUIRED FOR THE E911.

305. LOSS OF A-C OUTPUT CAUSES RED ALARMS ON THE METER PANEL (IF INVERTER HAS THIS OPTION) FOR "INVERTER OVERLOADED", "INPUT OVERVOLTAGE", "INPUT UNDERVOLTAGE", "OVER TEMPERATURE", AND "IMPAIRED AIRFLOW". ALSO REMOTE ALARMS WILL FURNISH THESE ALARMS IF THE INVERTER HAS THIS OPTION. ALSO REMOTE ALARMS WILL FURNISH "GENERAL ALARM" ON INVERTERS WITHOUT THE STATIC TRANSFER SWITCH OPTION AND "LINE LOSS ALARM" AND "GENERAL ALARM" WITH THE STATIC TRANSFER SWITCH OPTION.

306. INDICATES LEADS RUN BY INSTALLER.

307. ED-5D729-31 PROVIDES THE NECESSARY LIST STRUCTURES FOR ORDERING.

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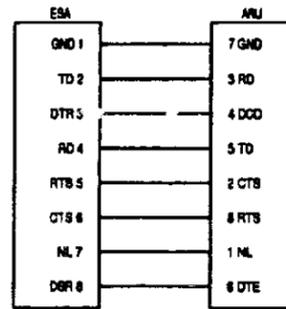
INFORMATION NOTES (CONT):

308.	INFORMATION SOURCE	PERIPHERALS	WATTS	
			117V	
	KS-22100 L1	KS-22100 L1 (BLOWER)	140	1.198
	AT&T USER GUIDE	577 PRINTER	140	1.198
	705MT USER GUIDE 999-300-733	705MT	60	.52
	BSP-590-010-201 PG. 49/50	48A2 MPLY (829 DS)	FULLY LOADED (11W - 8X1.2)	1.4 .011
	BSP-590-010-201 PG. 9	829A,L1A	1.2	.01
	3000 SERIES INSTALLATION MANUAL 3000-A2-GA31-20	3000 SERIES CARRIER	MAX. CAPACITY	175 1.486
	COMSPHERE 3800 SERIES 80 MODEM 3810-A2-GB91-20	3M11 SD MODEM	4.25	.038
	TAPE DRIVE USER'S GUIDE	9-TRACK TAPE DRIVE	250 MAX. 170 IDLE	2.14 1.45
	78 DII USER'S GUIDE AT&T 595-021-723	78 DIRECT INTELLIGENT INTERFACE (DII) UNIT	5 MAX. 2.4 TYP.	.043 .02
	201-601-800	ALARM RELAY UNIT	24	2
	AT&T 533-700-100	NTIU NETWORK TERMINATOR	1.2 TYP. 1.5 MAX	.01 .013

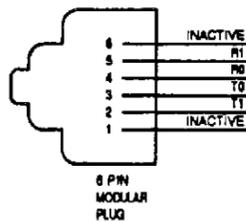
FOR CENTRAL OFFICE APPLICATIONS PROTECTED POWER IS OBTAINED FROM TWO WP91652, L20A INVERTERS. EXTREME CAUTION MUST BE EXERCISED NOT TO EXCEED THE 8 AMP MAXIMUM POWER RATING OF EACH INVERTER.

INFORMATION NOTES (CONT):

309. CABLE PINOUTS FOR ED-50728-11, G5A



310. CABLE PINOUTS FOR ED-50728-11, G2

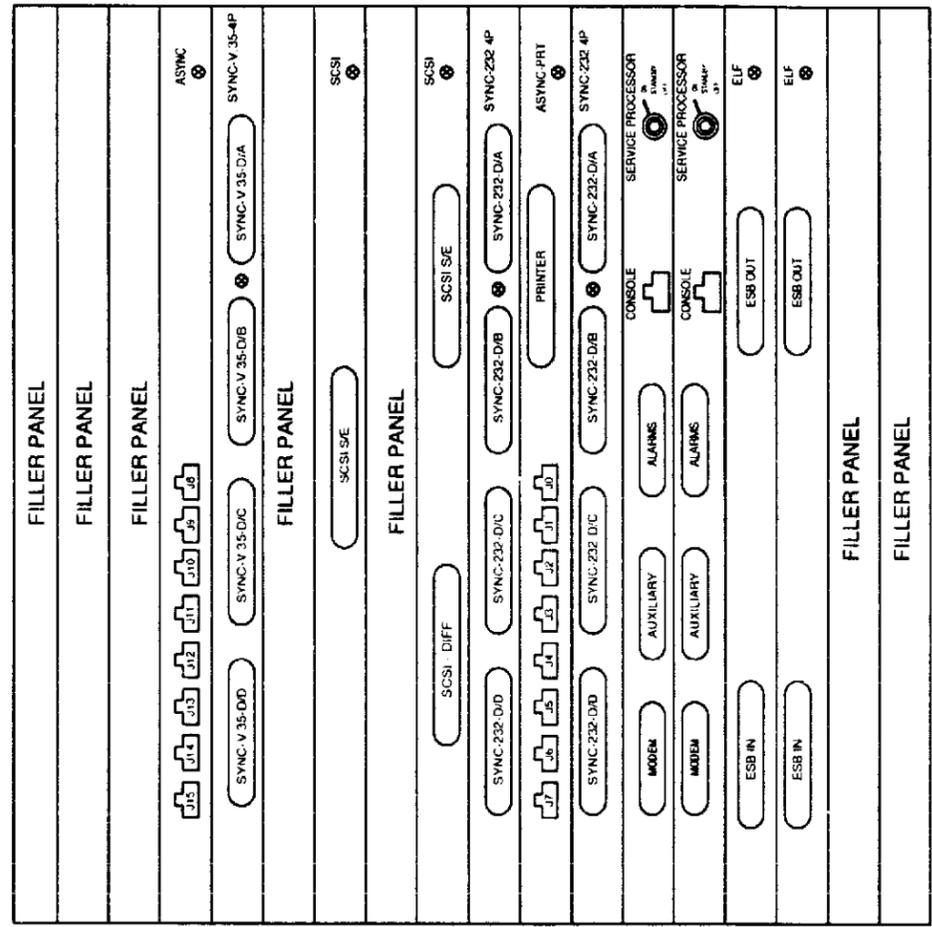


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AT&T	SD-5D503-02	ISSUE 9B SHEET 02
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INFORMATION NOTES (CONT)

311

ES11 SERVICE ADJUNCT (ESA) PATCH PANEL
FOR 1 TO 4 SWITCHES



CARD POSITION 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518

REAR VIEW

SEE TABLE 'A' FOR CABLE INFORMATION

TABLE A

CARD POSITION	PATCH PANEL DESIGNATION	ORDERING CABLE NUMBER	CABLE NUMBER	LENGTH	TERMINATION	USED ON
512	SYNC-232-D/A	406188086	406712091	25 FT	SESS API LINK 1	1 SWITCH
510	SYNC-232-D/B	406188086	406712091	25 FT	SESS API LINK 2	1 SWITCH
512	SYNC-232-D/C	406188086	406712091	25 FT	SESS API LINK 3	2 SWITCH
510	SYNC-232-D/D	406188086	406712091	25 FT	SESS API LINK 4	2 SWITCH
510	SYNC-232-D/A	406188086	406712091	25 FT	SESS API LINK 5	3 SWITCH
512	SYNC-232-D/B	406188086	406712091	25 FT	SESS API LINK 6	3 SWITCH
510	SYNC-232-D/C	406188086	406712091	25 FT	SESS API LINK 7	4 SWITCH
512	SYNC-232-D/D	406188086	406712091	25 FT	SESS API LINK 8	4 SWITCH
509	SCSI - DIFF	406768135	406187896	25 FT	9-TRACK TAPE DRIVE	ALL
		406768085	406187922	50 FT		
511	J0	406199893	406500058	25 FT	CRAFT TERMINAL	ALL
511	J1	ED-50729-11.G5A			ALARM RELAY UNIT	ALL
511	J2	406188359	406500199	25 FT	ESA SUPPORT	ALL
511	J3	406188359	406500199	25 FT	ALLDMS	ALL
511	J4	406188359	406500199	25 FT	M/LUM	ALL
511	PRINTER	406188304	406500264	25 FT	ROP PRINTER	ALL
513	CONSOLE	406199893	406500058	25 FT	T SWITCH	ALL
		406199836	406500066	50 FT		
513	MODEM	406838771	406704213	25 FT	T SWITCH	ALL
		406838789	406704221	50 FT		
514	CONSOLE	406199893	406500058	25 FT	REMOTE CONSOLE	ALL
514	MODEM	406838771	406704213	25 FT	REMOTE WANT INTERFACE	ALL
505	SYNC-V 35-D/A	406188128	406712133	25 FT	V 35 AUDIT LINK	DUAL ESA
505	SYNC-V 35-D/B	406188128	406712133	25 FT	V 35 AUDIT LINK	DUPLEXED AUDIT LINK
511	J5				RESERVED	

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ENHANCED 911
SERVICE ADJUNCT
(ESA)

DWG SIZE C2	ISSUE 11M
AT&T	SHEET 03

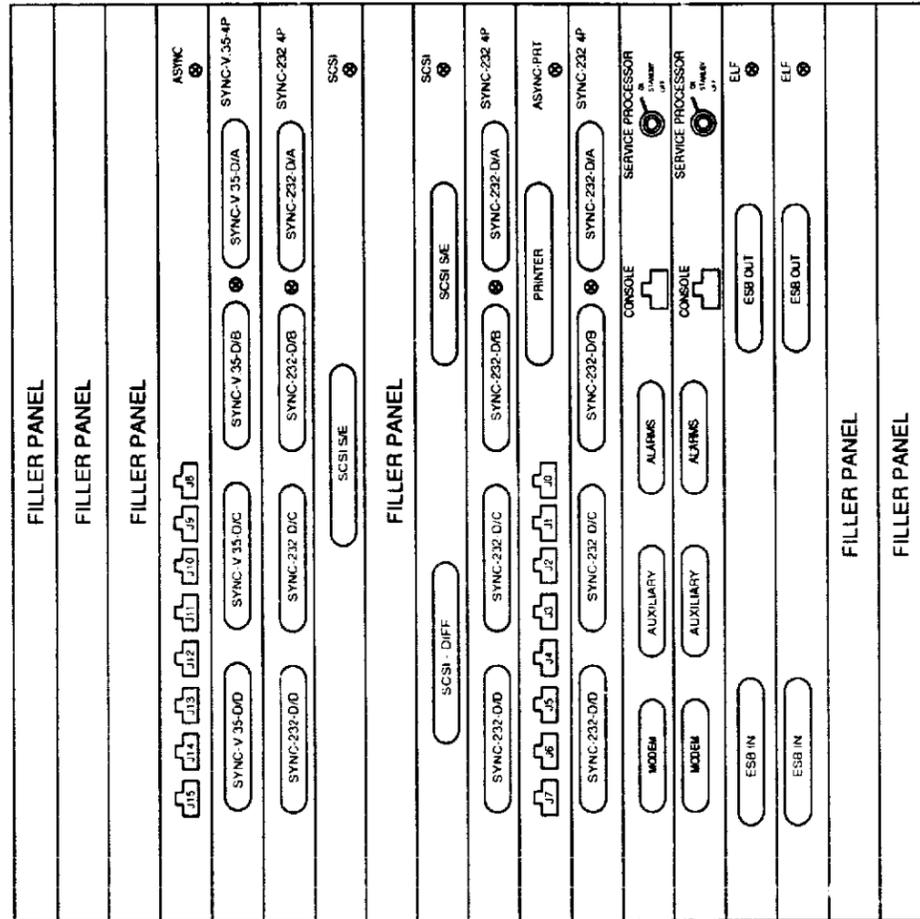
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INFORMATION NOTES (CONT.)

311 CONT'D

E911 SERVICE ADJUNCT (ESA) PATCH PANEL
FOR 5 TO 6 SWITCHES



CARD POSITION 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518
REAR VIEW

SEE TABLE B' FOR CABLE INFORMATION

TABLE B'

CARD POSITION	PATCH PANEL DESIGNATION	ORDERING CABLE NUMBER	CABLE NUMBER	LENGTH	TERMINATION	USED ON
512	SYNC-232-D/A	406188086	406712091	25 FT	SESS API LINK 1	1 SWITCH
510	SYNC-232-D/B	406188086	406712091	25 FT	SESS API LINK 2	1 SWITCH
512	SYNC-232-D/C	406188086	406712091	25 FT	SESS API LINK 3	2 SWITCH
510	SYNC-232-D/D	406188086	406712091	25 FT	SESS API LINK 4	2 SWITCH
510	SYNC-232-D/A	406188086	406712091	25 FT	SESS API LINK 5	3 SWITCH
506	SYNC-232-D/B	406188086	406712091	25 FT	SESS API LINK 6	3 SWITCH
510	SYNC-232-D/C	406188086	406712091	25 FT	SESS API LINK 7	4 SWITCH
506	SYNC-232-D/D	406188086	406712091	25 FT	SESS API LINK 8	4 SWITCH
506	SYNC-232-D/A	406188086	406712091	25 FT	SESS API LINK 9	5 SWITCH
512	SYNC-232-D/B	406188086	406712091	25 FT	SESS API LINK 10	5 SWITCH
506	SYNC-232-D/C	406188086	406712091	25 FT	SESS API LINK 11	6 SWITCH
512	SYNC-232-D/D	406188086	406712091	25 FT	SESS API LINK 12	6 SWITCH
509	SCSI - DIFF	406768135	406187898	25 FT		
		406769085	406187922	50 FT	9-TRACK TAPE DRIVE	ALL
511	J0	406199893	406500058	25 FT	CRAFT TERMINAL	ALL
511	J1	EQ-5D729-11 G5A			ALARM RELAY UNIT	ALL
511	J2	406188359	406500199	25 FT	ESA SUPPORT	ALL
511	J3	406188359	406500199	25 FT	ALI/DMS	ALL
511	J4	406188359	406500199	25 FT	MMU/UM	ALL
511	PRINTER	406188334	406500264	25 FT	ROP PRINTER	ALL
513	CONSOLE	406199893	406500058	25 FT	T SWITCH	ALL
		406199836	406500066	50 FT		
513	MODEM	406838771	406704213	25 FT	T SWITCH	ALL
		406838789	406704221	50 FT		
514	CONSOLE	406199893	406500058	25 FT	REMOTE CONSOLE	ALL
514	MODEM	406838771	406704213	25 FT	REMOTE MAINT INTERFACE	ALL
505	SYNC-V 35-D/A	406188128	406712133	25 FT	V 35 AUDIT LINK	DUAL ESA
505	SYNC-V 35-D/B	406188128	406712133	25 FT	V 35 AUDIT LINK	DUPLEXED AUDIT LINK
511	J5				RESERVED	

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ENHANCED 911
SERVICE ADJUNCT
(ESA)

DWG SIZE
C2

ISSUE
11M

A3"

SD-5D503-02

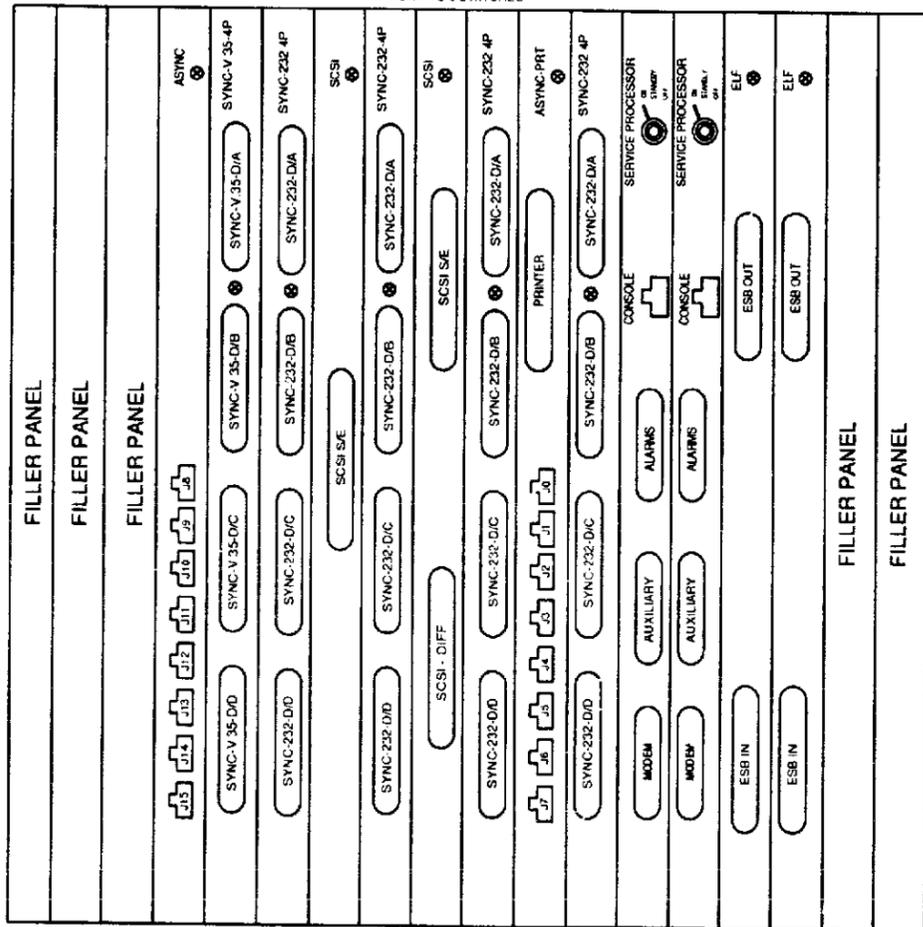
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INFORMATION NOTES (CONT)

311 CONT'D

E911 SERVICE ADJUNCT (ESA) PATCH PANEL FOR 7 TO 8 SWITCHES



CARD POSITION

SEE TABLE 'C' FOR CABLE INFORMATION

REAR VIEW

TABLE 'C'

CARD POSITION	PATCH PANEL DESIGNATION	ORDERING CABLE NUMBER	CABLE NUMBER	LENGTH	TERMINATION	USED ON
512	SYNC-232-D/A	406188086	406712091	25 FT	SESS API LINK 1	1 SWITCH
510	SYNC-232-D/B	406188086	406712091	25 FT	SESS API LINK 2	1 SWITCH
512	SYNC-232-D/C	406188086	406712091	25 FT	SESS API LINK 3	2 SWITCH
510	SYNC-232-D/D	406188086	406712091	25 FT	SESS API LINK 4	2 SWITCH
510	SYNC-232-D/A	406188086	406712091	25 FT	SESS API LINK 5	3 SWITCH
508	SYNC-232-D/B	406188086	406712091	25 FT	SESS API LINK 6	3 SWITCH
510	SYNC-232-D/C	406188086	406712091	25 FT	SESS API LINK 7	4 SWITCH
508	SYNC-232-D/D	406188086	406712091	25 FT	SESS API LINK 8	4 SWITCH
508	SYNC-232-D/A	406188086	406712091	25 FT	SESS API LINK 9	5 SWITCH
508	SYNC-232-D/B	406188086	406712091	25 FT	SESS API LINK 10	5 SWITCH
508	SYNC-232-D/C	406188086	406712091	25 FT	SESS API LINK 11	6 SWITCH
506	SYNC-232-D/D	406188086	406712091	25 FT	SESS API LINK 12	6 SWITCH
509	SCSI - DIFF	406766135	406187838	25 FT	3-TRACK TAPE DRIVE	ALL
		406768385	406187922	50 FT		
511	J0	406199893	406500058	25 FT	CRAFT TERMINAL	ALL
511	J1	ED-50729-11 GSA			ALARM RELAY UNIT	ALL
511	J2	406188359	406500199	25 FT	ESA SUPPORT	ALL
511	J3	406188359	406500199	25 FT	ALVDMS	ALL
511	J4	406188359	406500199	25 FT	MML/UM	ALL
511	PRINTER	406188334	406500264	25 FT	ROP PRINTER	ALL
513	CONSOLE	406199893	406500058	25 FT	T SWITCH	ALL
		406199836	406500058	50 FT		
513	MODEM	406838771	406704213	25 FT	T SWITCH	ALL
		406838789	406704221	50 FT		
514	CONSOLE	406199893	406500058	25 FT	REMOTE CONSOLE	ALL
514	MODEM	406838771	406704213	25 FT	REMOTE MAINT INTERFACE	ALL
505	SYNC-V 35-D/A	406188128	406712133	25 FT	V 35 AUDIT LINK	DUAL ESA
506	SYNC-232-D/A	406188086	406712091	25 FT	SESS ADI LINK 13	7 SWITCH
512	SYNC-232-D/B	406188086	406712091	25 FT	SESS ADI LINK 14	7 SWITCH
506	SYNC-232-D/C	406188086	406712091	25 FT	SESS ADI LINK 15	8 SWITCH
512	SYNC-232-D/D	406188086	406712091	25 FT	SESS ADI LINK 16	8 SWITCH
505	SYNC-V 35-D/B	406188128	406712133	25 FT	V 35 AUDIT LINK	DUPLEXED AUDIT LINK
511	J5				RESERVED	

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SERVICE ADJUNCT
(ESA)

DWG SIZE
C2

SSLE
11M

SD-5D503-02

SHEET
D4A

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INFORMATION NOTES (CONT):

312. THE J5 CONNECTOR, DESIGNATED SCAN POINTS, IS A 37 PIN (MALE) DB37 TYPE PLUG. CONNECTIONS SHOULD BE MADE TO THE SCAN POINTS USING A SHIELDED CABLE (DB37).

SCAN POINT NUMBER	PIN NUMBERS	ACTIVE STATE	DISPLAY MESSAGE	TRANSMIT MESSAGE			AUDIBLE (SEC)
			ACTIVE	ACTIVE	CLEAR	CHANNEL	
01	1,20	LOW/CLOSED	01 ACT	ACT 01*M*J	CLR 01*M*J	A	3
02	2,21	LOW/CLOSED	02 ACT	ACT 02*M*J	CLR 02*M*J	A	3
03	3,22	LOW/CLOSED	03 ACT	ACT 03*M*J	CLR 03*M*J	A	3
04	4,23	LOW/CLOSED	04 ACT	ACT 04*M*J	CLR 04*M*J	A	3
05	5,24	LOW/CLOSED	05 ACT	ACT 05*M*J	CLR 05*M*J	A	3
06	6,25	LOW/CLOSED	06 ACT	ACT 06*M*J	CLR 06*M*J	A	3
07	7,26	LOW/CLOSED	07 ACT	ACT 07*M*J	CLR 07*M*J	A	3
08	8,27	LOW/CLOSED	08 ACT	ACT 08*M*J	CLR 08*M*J	A	3
09	9,28	LOW/CLOSED	09 ACT	ACT 09*M*J	CLR 09*M*J	A	3
10	10,29	LOW/CLOSED	10 ACT	ACT 10*M*J	CLR 10*M*J	A	3
11	11,30	LOW/CLOSED	11 ACT	ACT 11*N*J	CLR 11*N*J	A	3
12	12,31	LOW/CLOSED	12 ACT	ACT 12*M*J	CLR 12*M*J	A	3
13	13,32	LOW/CLOSED	13 ACT	ACT 13*M*J	CLR 13*M*J	A	3
14	14,33	LOW/CLOSED	14 ACT	ACT 14*M*J	CLR 14*M*J	A	3
15	15,34	LOW/CLOSED	15 ACT	ACT 15*M*J	CLR 15*M*J	A	3
16	16,35	LOW/CLOSED	16 ACT	ACT 16*M*J	CLR 16*M*J	A	3

NOTES:

1. THESE NUMBERS REPRESENT THE PINS OF THE 37 PIN CONNECTOR (J5) ON THE BACK OF THE ARU. PINS 17,18,19,36,37 ARE NOT CONNECTED INTERNAL TO THE ARU. PINS 1-16 ARE SIGNAL LEADS AND PINS 20-35 ARE RETURN LEADS WHEN TTL CIRCUITS ARE TERMINATED.
2. ACTIVE STATUS IS LOW (0 VOLTS) FOR TTL AND CLOSED FOR RELAY CONNECT INPUT.
3. THIS INFORMATION WILL BE RETURNED TO THE HOST WHEN THERE IS A CHANGE OF STATE ON THE INPUT ACCESS POINT, OR WHEN POLLED BY THE HOST.
4. FOR ADDITIONAL INFORMATION SEE SD-5P079-02

INFORMATION NOTES (CONT):

313. THE J2 CONNECTOR, DESIGNATED AS RELAY CONNECTIONS ON THE ARU IS A 25 PIN (MALE) DB-25P TYPE PLUG. THE MATING CONNECTOR REQUIRED IS A 25 PIN (FEMALE) DB-25S TYPE RECEPTACLE.

RELAY	TYPE OF CONTACT	PIN #
K1	COMMON	1
	NORMALLY OPEN	2
	NORMALLY CLOSED	3
K2	COMMON	4
	NORMALLY OPEN	5
	NORMALLY CLOSED	6
K3	COMMON	7
	NORMALLY OPEN	8
	NORMALLY CLOSED	9
K4	COMMON	10
	NORMALLY OPEN	11
	NORMALLY CLOSED	12
K5	COMMON	13
	NORMALLY OPEN	14
	NORMALLY CLOSED	15
K6	COMMON	16
	NORMALLY OPEN	17
	NORMALLY CLOSED	18
K7	COMMON	19
	NORMALLY OPEN	20
	NORMALLY CLOSED	21
K8	COMMON	22
	NORMALLY OPEN	23
	NORMALLY CLOSED	24
	NO CONNECTION	25

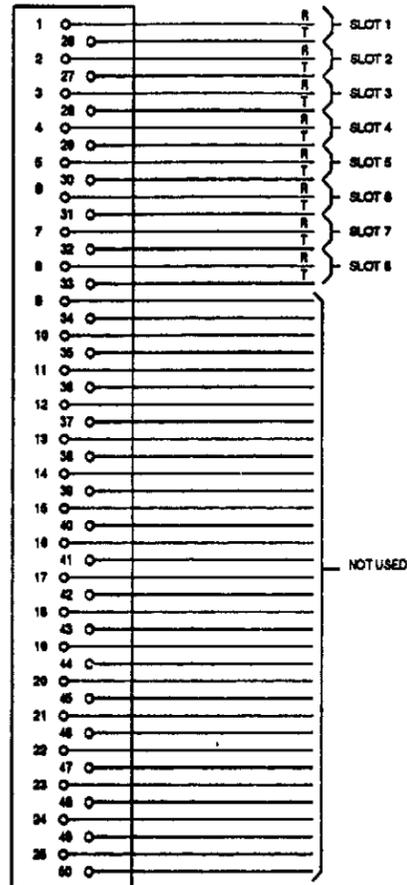
NOTES:

1. CONNECTIONS TO THE SESS SWITCH ARE DONE USING THE COMMON AND NORMALLY OPEN CONTACTS.
2. FOR ADDITIONAL INFORMATION SEE SD-5P079-02

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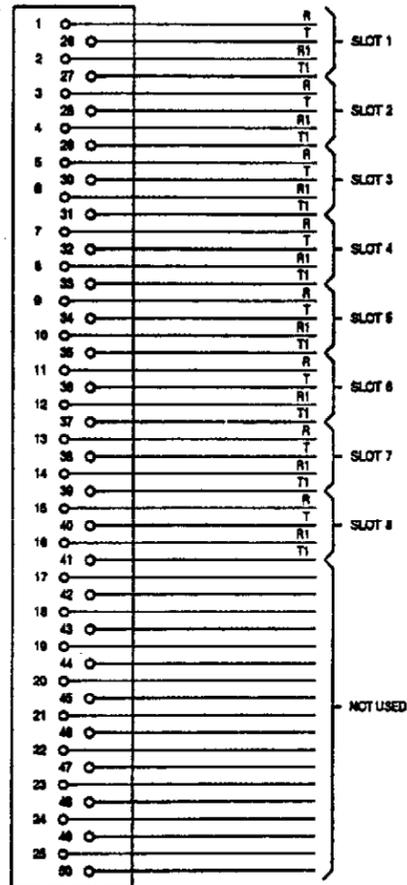
INFORMATION NOTES (CONT)

314. CABLE PINOUTS FOR ED-SD729-11, Q28⁰⁷⁸
(DIAL NETWORK INTERFACE MODULE)



60 PIN CONNECTOR
(FEMALE)

315. CABLE PINOUTS FOR ED-SD729-11, Q3⁰⁷
(DIGITAL/LEASED NETWORK INTERFACE)



50 PIN CONNECTOR
(FEMALE)

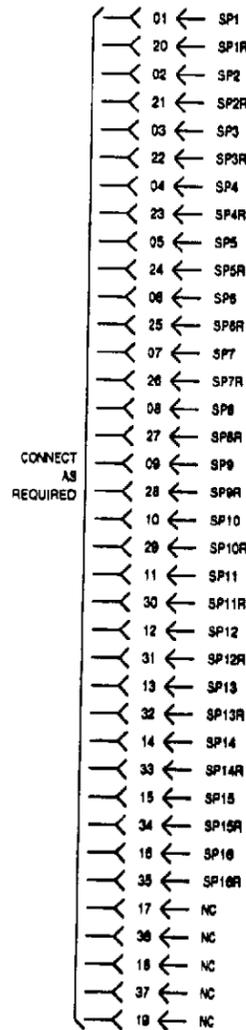
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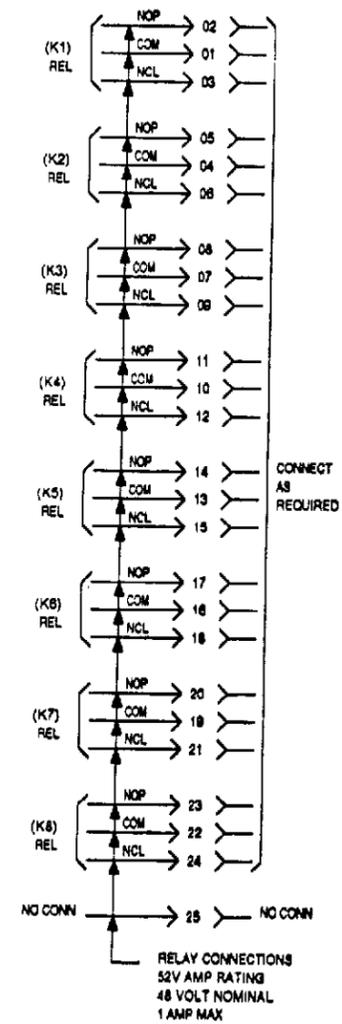


CAD 1

SCAN POINTS (J5) CONNECTOR ALARM RELAY UNIT



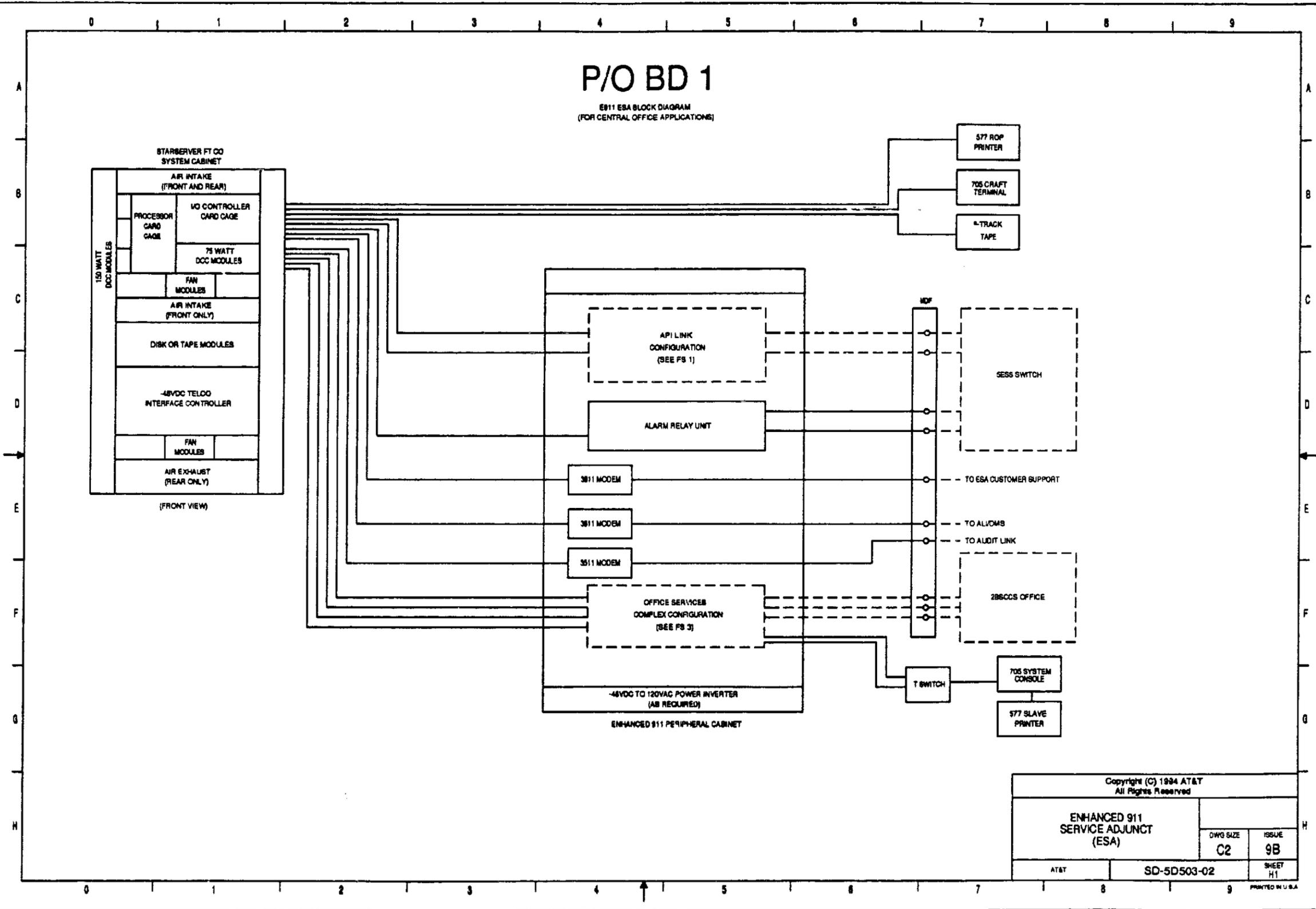
RELAY CONNECTIONS (J2) CONNECTOR ALARM RELAY UNIT



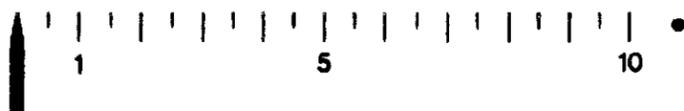
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P/O BD 1

ES11 ESA BLOCK DIAGRAM
(FOR CENTRAL OFFICE APPLICATIONS)

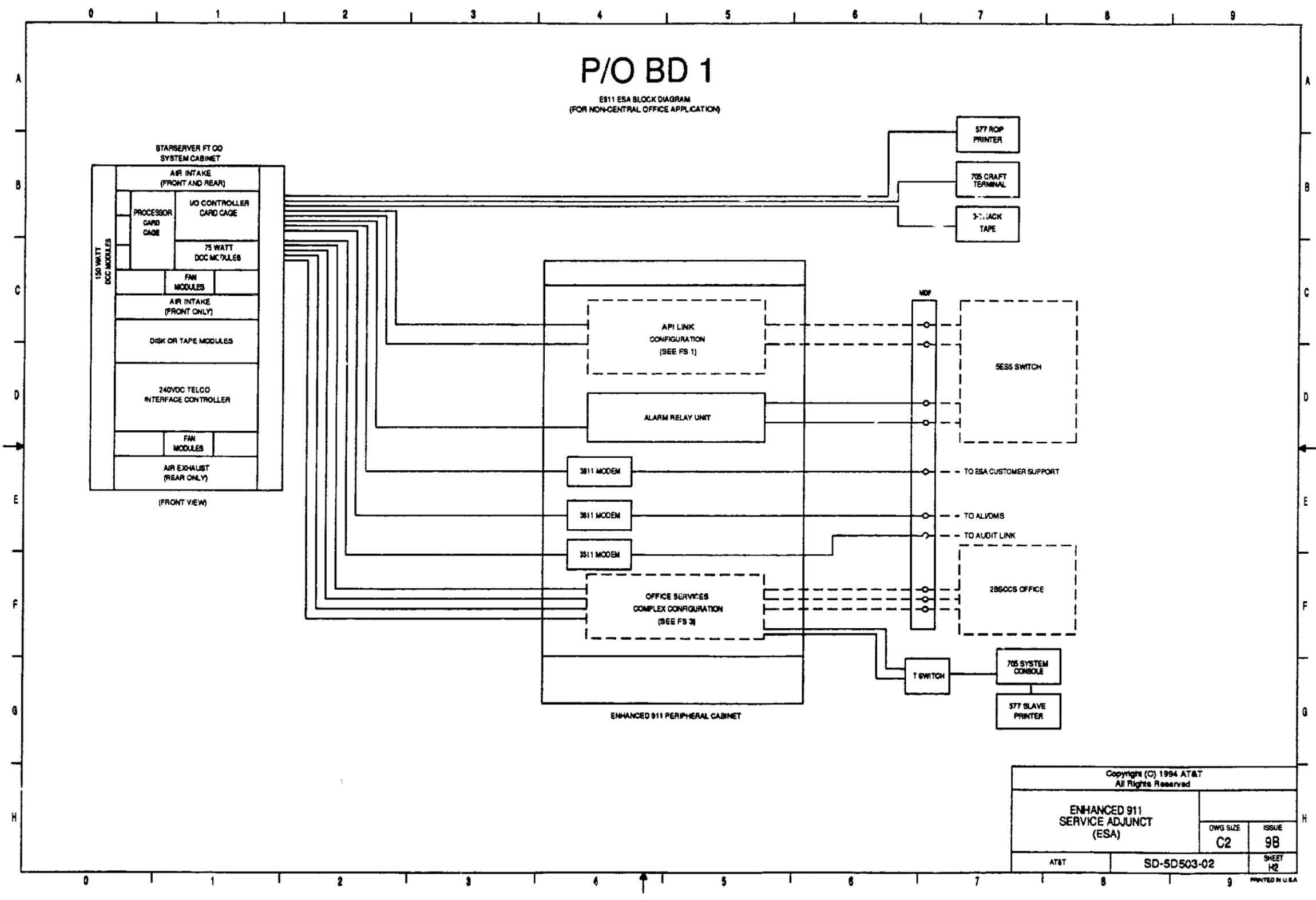


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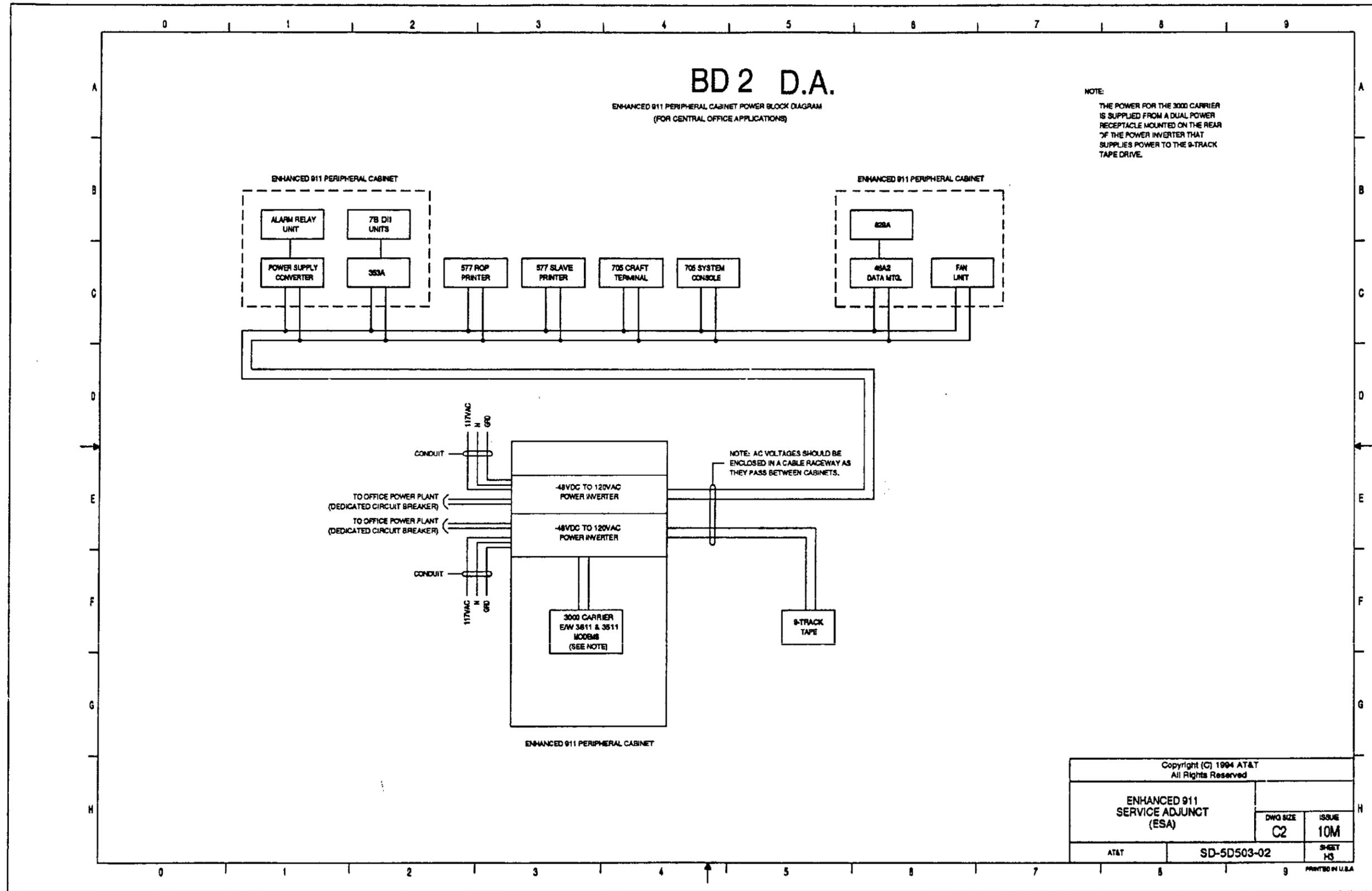


P/O BD 1

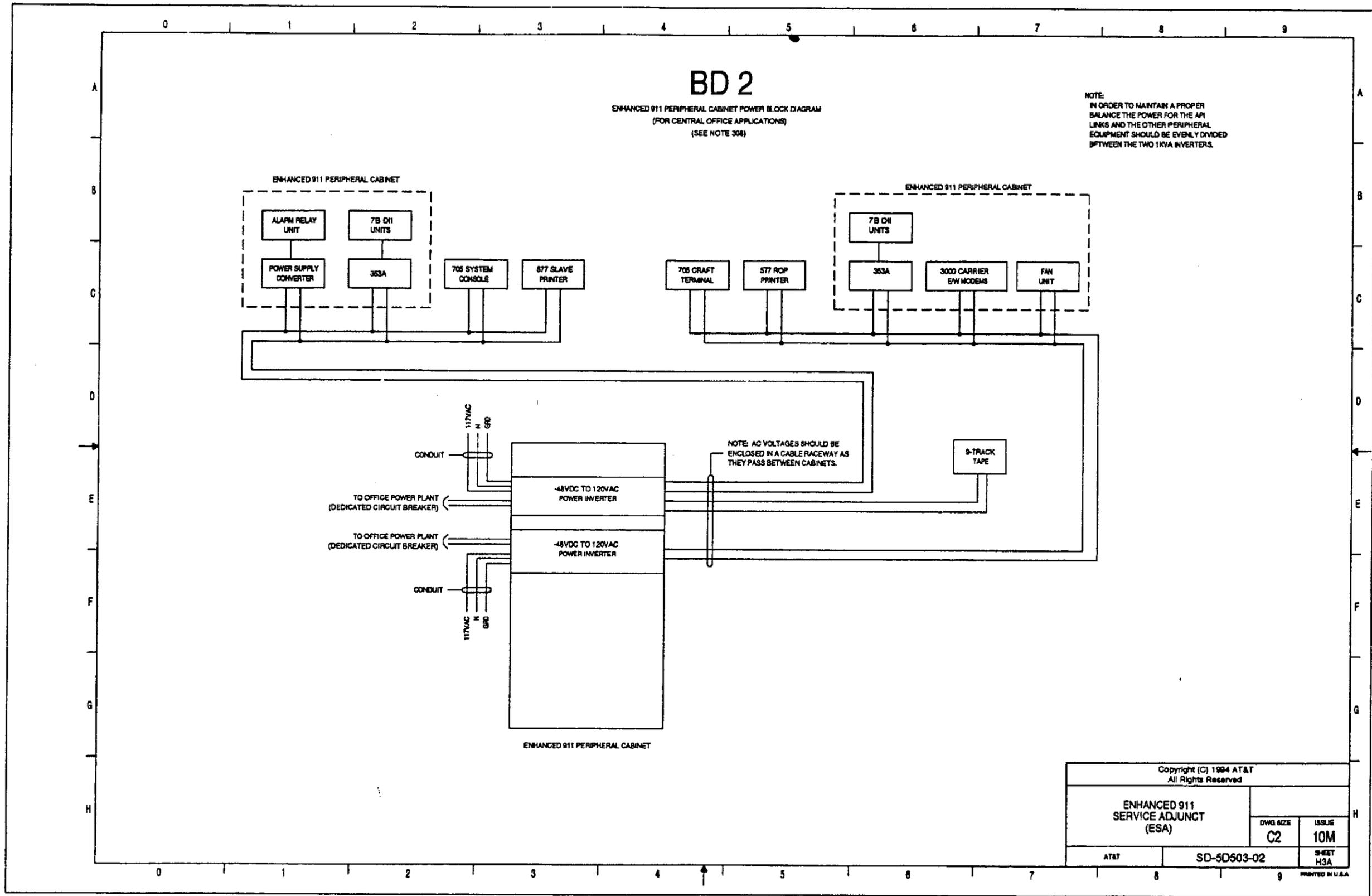
ES11 ESA BLOCK DIAGRAM
(FOR NON-CENTRAL OFFICE APPLICATION)



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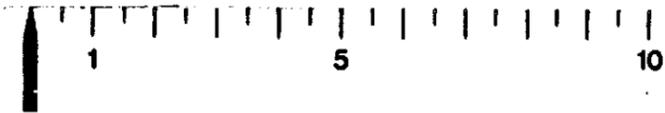


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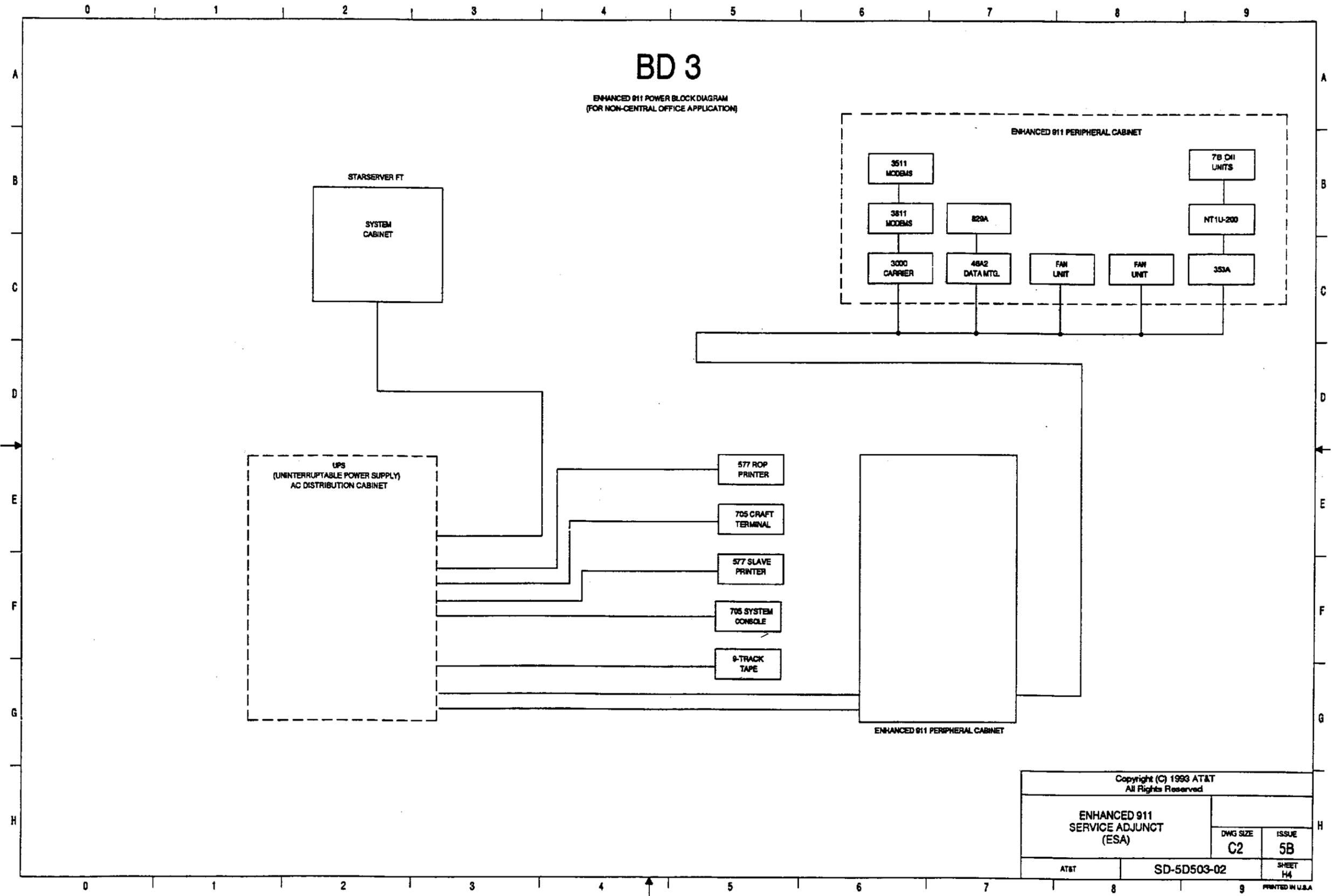
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A

B



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		C2
AT&T	SD-5D503-02	ISSUE
		5B
		SHEET
		H4