SHEET INDEX

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FS 46 MISCELLANEOUS CABINET BAY 0 FS 47 MISCELLANEOUS CABINET BAY 1	6 FT	B15	14
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FS 52 3B20D MODELS TAPE/DISK CABINET T/DC(0) OR T/DC(1) FS 53 3B20D MODEL 3 TAPE/DISK CABINET T/DC(2)	6 FT		
FS 54 SUPPLEMENTARY TRUNK LINE WORK STATION FS 55 MAINTENANCE CONTROL CENTER/ TRUNK LINE WORK STATION FS 56 SUPPLEMENTARY TRUNK LINE WORK STATION	6 FT 21" DEEP	B18	14
FS 57 COMMUNICATION MODULE MODEL 2 (BAY 5) FS 58 COMMUNICATION MODULE MODEL 2 (BAY 6)	6 FT 30" DEEP		
FS 59 COMMUNICATION MODULE MODEL 2 (BAYS 0-4) FS 60 COMMUNICATION MODULE MODEL 2 (BAYS 7-11) FS 61 MISCELLANEOUS CABINET FOR RSM'S	6 FT	B19	14
FS 62 SWITCHING MODULE CONTROL CABINET	6 FT	B20	14
FS 63 LINE TRUNK PERIPHERAL CAB. EQUIP WITH TWO ISLU'S FS 64 LINE TRUNK PERIPHERAL CAB. EQUIP WITH AN ISLU ON "0" BUS & ANY UNIT NOT REQ HIGH CURRENT FUSES (RISLU) FS 65 LINE TRUNK PERIPHERAL CAB. EQUIP WITH AN ISLU ON "1" BUS & ANY UNIT NOT REQ HIGH CURRENT FUSES (RISLU)	6 FT	B21	14

CONTENTS		SHEET NO.	SHEET ISSUE NO.
FS 66 LINE TRUNK PERIPHERAL CAB. EQUIP WITH AN ISLU ON "0" BUS & WITH ANY UNIT REQ HIGH CURRENT FUSES, OR WITH A LINE UNIT FS 67 LINE TRUNK PERIPHERAL CAB. EQUIP WITH AN ISLU ON "1" BUS & WITH ANY UNIT REQ HIGH CURRENT FUSES, OR WITH A LINE UNIT FS 68 TRANSMISSION FACILITY CABINET	6 FT	B22	14
FS 69 LINEAGE POWER PLANT, 400 AMP FS 70 PERIPHERAL INTERFACE CABINET	6 FT	B23	14
FS 71 RING NODE CABINET FS 72 DIGITAL FACILITY ACCESS CABINET FS 73 ANALOG FACILITY ACCESS FRAME	6 FT 7 FT	B24	14
FS 74 SMC CABINET ARRANGED FOR LU(2) AND MISC UNITS FS 75 SMC CABINET ARRANGED FOR MCTU(2) AND DLTU2(2) FS 76 SMC CABINET ARRANGED FOR MCTU2 & PSU(2) OR MISC UNITS	6 FT	B25	14
FS 77 SMC CABINET ARRANGED AND ISLU (BUS 0) FS 78 SMC CABINET ARRANGED FOR MCTU2 AND AN ISLU (BUS 1)	6 FT	B26	14
FS 79 PROTECT AC INVERTER		B27	14
FS 80 JOB CONDITION ARRANGEMENT TO ELIMINATE REQUIREMENT FOR 117V POWER FROM POWER SERVICE CABINET 19" OR 23" RELAY RACK FS 81 DATAKIT II VCS HIGHGATE CIRCUIT		B28	14

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FS 84 5 KVA AC DC/AC INVERTER	B30	15
FS 85 LTP CABINET: E/W J5D003FJ-1 MODULAR FUSE FILTER UNIT, 2 'A' FEEDERS & 2 'B' FEEDERS FS 86 LTP CABINET E/W J5D003FJ-1 MODULAR FUSE FILTER UNIT, 5 'A' FEEDERS & 1 'B' FEEDER	B31	15
FS 87 LTP CABINET E/W J5D003FJ-1 MODULAR FUSE PANEL UNIT, 1 'A' FEEDER & 5 'B' FEEDERS FS 88 LTP CABINET E/W J5D003FJ-1 MODULAR FUSE FILTER UNIT, 4 'A' FEEDRES & 4 'B' FEEDERS	B32	15
FS 89 LTP CABINET E/W J5D003FJ-1 MODULAR FUSE FILTER UNIT, 7 'A' FEEDERS & 2 'B' FEEDERS FS 90 LTP CABINET E/W J5D003FJ-1 MODULAR FUSE FILTER UNIT, 2 'A' FEEDRES & 7 'B' FEEDERS	B33	15
FS 91 LTP CABINET E/W J5D003FJ-1 MODULAR FUSE FILTER UNIT, 5 'A' FEEDERS & 5 'B' FEEDERS FS 92 LTP CABINET E/W J5D003FJ-1 MODULAR FUSE FILTER UNIT, 9 'A' FEEDRES & 1 'B' FEEDER	B34	15
FS 93 LTP CABINET E/W J5D003FJ-1 MODULAR FUSE FILTER UNIT, 1 'A' FEEDER & 9 'B' FEEDERS FS 94 SWITCH MODULE CONTROL CABINET E/W J5D003FJ-1 MODULAR FUSE FILTER UNIT, 2 'A' FEEDRES & 2 'B' FEEDERS	B35	15

DWG ISS	CD ISS	DWG ISS	CD ISS	DWG ISS	CD ISS
1	1 SPE -	2D	1 SPE 1D	3A	2A SPE -
4D	5D SPE -	5AC	3D SPE 1AC	6A	4A SPE -
7AC	5A SPE 1AC	8D	1A SPE 2D	9D	1A SPE 3D
10D	4A SPE 4D	11M	4A SPE 5M	12A	2A SPE 5A
13B	4A SPE 7B		SPE -		SPE -

DWG ISS	CD ISS	DATE ISSD	DRN	APP
14B	4A SPE 8B	1-14-92		
15B	3B SPE -	7-6-92		
16B	6B SPE -	8-18-93		

SYSTEM USED ON	DESIGN CONTROL
5ESS®	IH

SUPPORTING INFORMATION	
CATEGORY	NO.
POWER DISTRIBUTING FRAME GROUNDING	J663348, D ED-5D022-01
D.C. POWER DISTRIBUTION HARDWARE	ED-5D073-10
AC POWER DISTRIBUTION	SD-5D004-01
3B PROCESSOR AC & DC POWER DISTRIBUTION	SD-4C053-01 ED-4C184-10
CURRENT DRAIN DATA	SD-5D002-01
BATTERY DISTRIBUTION SCHEMATIC	SDM-83103-02

SHEET INDEX NOTES

1. ONLY THE LATEST ISSUE, OR ISSUES IF CONCURRENT, ARE SHOWN IN THE INDEX.
2. FOR REISSUES, A CHANGED OR NEW SHEET IS ASSIGNED THE SAME ISSUE NUMBER AS SHEET 1.
3. THE ISSUE NUMBER OF SHEET 1 IS RECOGNIZED AS THE ISSUE NUMBER OF THE WHOLE DRAWING.

BT13

5ESS® SWITCHING EQUIPMENT DC POWER DISTRIBUTION CIRCUIT

DWG SIZE	ISSUE
C2	16B

AT&T | SD-5D005-01 | SHEET A1 79 SHEETS

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SHEET INDEX - (CONT)

CONTENTS	SHEET NO.	SHEET ISSUE NO.
FS 95 SWITCH MODULE CONTROL CABINET MODEL 2 E/W J5D003FJ-1 MODULAR FUSE PANEL UNIT, 2 'A' FEEDERS & 4 'B' FEEDERS FS 96 SWITCH MODULE CONTROL CABINET MODEL 2 E/W J5D003FJ-1 MODULAR FUSE PANEL UNIT, 2 'A' FEEDERS & 2 'B' FEEDERS, 1 'A' FEEDER & 1 'B' FEEDER	B36	15
FS 97 SWITCH MODULE CONTROL CABINET MODEL 2 E/W J5D003FJ-1 MODULAR FUSE FILTER UNIT, 2 'A' FEEDERS, 2 'B' FEEDERS AND 2 'A' FEEDERS FS 98 SWITCH MODULE CONTROL CABINET MODEL 2 E/W J5D003FJ-1 MODULAR FUSE FILTER UNIT, 2 'A' FEEDERS, 2 'B' FEEDERS, 2 'A' FEEDERS & 2 'B' FEEDERS	B37	15
FS 99 SWITCH MODULE CONTROL CABINET MODEL 2 E/W J5D003FJ-1 MODULAR FUSE FILTER UNIT, 2 'A' FEEDERS, 2 'B' FEEDERS AND 4 'A' FEEDERS FS 100 SWITCH MODULE CONTROL CABINET MODEL 2 E/W J5D003FJ-1 MODULAR FUSE FILTER UNIT, 2 'A' FEEDERS & 6 'B' FEEDERS	B38	15
FS 101 MISCELLANEOUS CABINET E/W J5D003FJ-1 MODULAR FUSE FILTER UNIT, AND 2 'A' FEEDERS & 2 'B' FEEDERS FS 102 MODEM POOLING CABINET E/W J5D003FJ-1 MODULAR FUSE FILTER UNIT, 1 'A' FEEDER & 1 'B' FEEDER	B39	15
FS 103 COMMUNICATION MODULE - MODEL 2 (SINGLE FABRIC) E/W J5D003FJ-1 MODULAR FUSE FILTER UNIT, AND 6 'A' FEEDERS, FS 104 COMMUNICATION MODULE - MODEL 2 (SINGLE FABRIC) E/W J5D003FJ-1 MODULAR FUSE FILTER UNIT, AND 6 'B' FEEDERS,	B40	15
FS 105 EXPORT DATASET CABINET E/W J5D003FJ-1 MODULAR FUSE FILTER UNIT, 1 'A' FEEDER & 1 'B' FEEDER FS 106 DCSS CABINET E/W J5D003FJ-1 MODULAR FUSE FILTER UNIT, AND 2 'A' FEEDERSS & 2 'B' FEEDER	B41	15
FS 107 3821D BASIC CABINET E/W J5D003FJ-1 MODULAR FUSE FILTER UNIT, 6 'A' FEEDERS & 6 'B' FEEDERS	B42	15

CONTENTS		SHEET NO.	SHEET ISSUE NO.
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		D11A*	14
		D11B	14
		D12A*	14
		D12B	14
		D13	14
		D14A*	14
		D14B	14
		D15	14
		D16	14
		D17	14
		D18	14
		D19	14
		D20	14
		D21	14
		D22	14
		D23	14
		D24	14
		D25	14
		D26	14

* - SECTION D SHEETS WITH SUFFIX 'A' WERE FORMERLY WITHOUT A SUFFIX LETTER.

DC POWER DISTRIBUTION

DWG SIZE	ISSUE
C2	16B

AT&T	SD-5D005-01	SHEET A2

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INTERFRAME LEAD INDEX

-48V POWER PLANT DISCHARGE DISTRIBUTION

DESIG	LOCATION FS	CAD
-48	1C1, 1C6, 2B1, 2B4, 2B7	
-48A	1B3, 1B6, 2B3, 2B6, 2B9	
-48B	1B3, 1B6, 2B3, 2B6, 2B9	
GRD	1E0, 1E5, 2F0, 2G3, 2G8	
RTN	1C1, 1C6, 2B1, 2B4, 2B7	
RTNA	1C3, 1C8, 2B2, 2B6, 2B9	
RTNB	1C3, 1C8, 2B2, 2B6, 2B7	

3B PROCESSOR CONTROL CABINET (0)

DESIG	LOCATION FS	CAD
-48A	7E6, 10B0, 13B6	
RTNA	7B6, 10B0, 13B6	

3B PROCESSOR CONTROL CABINET (1)

DESIG	LOCATION FS	CAD
-48B	8B0, 10B4, 13F6	
RTNB	8E0, 10B4, 13F6	

3B PROCESSOR MOVING HEAD DISK CABINET (0)

DESIG	LOCATION FS	CAD
-48A	9B1, 10B7	
208V1A	9C1, 10C7	
208V1B	9C1, 10C7	
ACGND	9C1, 10C7	
RTNA	9B1, 10B7	

3B PROCESSOR MOVING HEAD DISK CABINET (1)

DESIG	LOCATION FS	CAD
-48B	9F1, 11B0	
208V1A	9G0, 11C0	
208V1B	9G0, 11C0	
ACGND	9F0, 11C0	
RTNB	9F1	

3B PROCESSOR MOVING HEAD DISK FRAME (2)

DESIG	LOCATION FS	CAD
-48B	9B5	
208V1A	9C5	
208V1B	9C5	
ACGND	9C5	
RTNB	9B5	

3B PROCESSOR PERIPHERAL CONTROL FRAME (0)

DESIG	LOCATION FS	CAD
-48A	8B4	
RTNA	8B4	

3B PROCESSOR PERIPHERAL CONTROL FRAME (1)

DESIG	LOCATION FS	CAD
-48B	8E4	
RTNB	8E4	

3B TAPE/DISK CABINET

DESIG	LOCATION FS	CAD
-48A	17B4, 17B7	
-48B	17B4, 17B7	
RTNA	17B4, 17B7	
RTNB	17C4, 17C7	

3B20D MODEL 3 SCSI DISK CABINET SDC 0 E/W 5-1/4" SCSI DISK DRIVES

DESIG	LOCATION FS	CAD
-48A	29B0	
-48B	29F0	
RTNA	29B0	
RTNB	29F0	

3B20D MODEL 3 SCSI DISK CABINET SDC 1 E/W 5-1/4" SCSI DISK DRIVES

DESIG	LOCATION FS	CAD
-48A	29B4	
-48B	29E4	
RTNA	29B4	
RTNB	29E4	

3B21D BASIC CABINET

DESIG	LOCATION FS	CAD
-48A	42C1	
-48B	42E1	
RTNA	42C1	
RTNB	42E1	

AUDIBLE ALARM UNIT

DESIG	LOCATION FS	CAD
ABS	8D5, 8H5	
-48RTN	6D5, 8H5	

COMMUNICATION MODULE MODEL 2

DESIG	LOCATION FS	CAD
-48A	18B4, 19B0, 19B6, 19E3	
-48B	18B4, 19B0, 19B6, 19E3	
RTNA	18B4, 19B0, 19B6, 19E3	
RTNB	18B4, 19B0, 19B6, 19E3	

COMMUNICATION MODULE MODEL 2 (SINGLE FABRIC)

DESIG	LOCATION FS	CAD
-48A	40D1	
-48B	40D5	
RTNA	40D1	
RTNB	40D5	

COUNTER ELECTROMOTIVE FORCE CELLS (CEMF)

DESIG	LOCATION FS	CAD
-48	16B2	
-48V	16B1	
RTN	16B1, 16B2	

DATAKIT II VCS HIGHGATE CIRCUIT

DESIG	LOCATION FS	CAD
-48A	28B8	
-48B	28C8	
RTNA	28B8	
RTNB	28C8	

DCSS CABINET

DESIG	LOCATION FS	CAD
-48A	40D1	
-48B	40D5	
RTNA	40D1	
RTNB	40D5	

DISK POWER CONTROL CABINET

DESIG	LOCATION FS	CAD
-48A	14B3	
-48B	14D3	
RTNA	14B3	
RTNB	14D3	

EMERGENCY CELLS (END CELLS)

DESIG	LOCATION FS	CAD
-48	16E2	
-48V	16E1	
RTN	16G1, 16G2	

EXPORT DATASET CABINET

DESIG	LOCATION FS	CAD
-48A	41C1	
-48B	41E1	
RTNA	41C1	
RTNB	41E1	

INTERFACE MODULE CONTROL CABINET

DESIG	LOCATION FS	CAD
-48A	6B0	
-48B	6C0	
RTNA	6B0	
RTNB	6C0	

JOB CONDITION ARRANGEMENT TO ELIMINATE REQUIREMENT FOR 117V POWER FROM POWER SERVICE CABINET 18" OR 23" RELAY RACK

DESIG	LOCATION FS	CAD
-48VBINBR	28B0	
-48VBINV1	28D0	
-48VBINV2	28E0	
RTNBINVR	28B0	
RTNBINV1	28D0	
RTNBINV2	20E0	

LINEAGE 2000 MCS POWER PLANT

DESIG	LOCATION FS	CAD
-48A	17B2	
-48B	17B2	
-48AINV	17C3	
RTNA		
RTNB	17B2	
RTNAINV	17C3	
ABS	17D2	
RTN	17D2	

LINE TRUNK FRAME (DOUBLE BAY)

DESIG	LOCATION FS	CAD
-48A	5C4	
-48B	5D4	
RTNA	5C4	
RTNB	5D4	

LINE TRUNK PERIPHERAL CABINET

DESIG	LOCATION FS	CAD
-48A	6F0, 12E3, 6G0, 12E3	
-48B	6F0, 12E3, 6G0, 12F3	
RTNA		
RTNB		

LTP CABINET

DESIG	LOCATION FS	CAD
-48A	31C1, 31D5, 32C0, 32C5, 33D1, 33C5, 34C1, 34D5, 35C1	
-48B	31E1, 31F5, 32E0, 32E5, 33F1, 33E5, 34E1, 34F5, 35D1	
RTNA	31C1, 31D5, 32C0, 32C5, 33D1, 33C5, 34C1, 34D5, 35C1	
RTNB	31E1, 31F5, 32E0, 32E5, 33F1, 33E5, 34E1, 34F5, 35D1	

MAIN DISTRIBUTING FRAME

DESIG	LOCATION FS	CAD
-48B	7G0	
RTNB	7G0	

MAINTENANCE CONTROL CENTER CONSOLE

DESIG	LOCATION FS	CAD
-48B	7E0, 12B3	
ESSGND	7F0	
RTNB	7E0, 12B3	

MCC/TRUNK LINE WORK STATION

DESIG	LOCATION FS	CAD
-48B	18E0	
RTNB	18E0	

MESSAGE SWITCH CABINET

DESIG	LOCATION FS	CAD
-48A	7B0, 13B0, 14B0	
-48B	13B3, 14B0	
RTNA	7B0, 13B0	
RTNB	13B3, 14B0	

MESSAGE SWITCH FRAME (DOUBLE BAY)

DESIG	LOCATION FS	CAD
-48A	6B7	
-48B	6C7	
RTNA	6B7	
RTNB	6C7	

MISCELLANEOUS CABINET

DESIG	LOCATION FS	CAD
-48A	6E3, 15B0, 15B4, 19E6, 39C1	
-48AINV0	6G3, 15C0, 15C4, 19F6, 39E1	
-48B	6F3, 15C0, 15C4, 19F6, 39C1	
ABS	6G3, 15E0	
RTN	6F3, 15F0	
RTNA	6F3, 15B0, 15B4, 19F6, 39C1	
RTNAINV0	6G3, 15F0	
RTNB	6F3, 15D0, 15D4, 19F6, 39E1	

MISCELLANEOUS FRAME

DESIG	LOCATION FS	CAD
-48A	6B3	
-48AINV0	6C3	
-48B	6B3	
RTNA	6B3	
RTNAINV0	6C3	
RTNB	6B3	
ABS	6C3	
RTN	6C3	

MODEM POOLING CABINET

DESIG	LOCATION FS	CAD
-48A	39C5	
-48B	39D5	
RTNA	39C5	
RTNB	39D5	

POWER DISTRIBUTION CABINET

DESIG	LOCATION FS	CAD
-48A	11B3	
-48B	11C3	
RTNA	11B3	
RTNB	11C3	

PROTECTED AC INVERTER

DESIG	LOCATION FS	CAD
-48AINV0	7B2, 27B0	
RTNAINV0	7B3, 27C0	
ABS	7D3	

SUPPLEMENTARY LINE TRUNK FRAME

DESIG	LOCATION FS	CAD
-48A	5B7	
-48B	5D7	
RTNA	5B7	
RTNB	5D7	

SUPPLEMENTARY TRUNK LINE WORK STATION

DESIG	LOCATION FS	CAD
-48B	18B0, 18G0	
RTNB	18B0, 18G0	

SWITCHING MODULE CONTROL CABINET

DESIG	LOCATION FS	CAD
-48A	20B2	
-48B	20D2	
RTNA	20B2	
RTNB	20D2	
ABS	20C2	
RTN	20C2	
ASU-48	20D2, 20D6	
ASURTN	20D2, 20D6	

SWITCHING MODULE CONTROL CABINET MODEL 2

DESIG	LOCATION FS	CAD
-48A	35C1, 35C5, 36C0, 36C5, 36F5, 37C1, 37F1, 37C5,	

SWITCHING MODULE CONTROL CABINET MODEL 2 (CONT)

DESIG	LOCATION FS	CAD
-48A	37D5, 38C1, 38E1, 38C5	
-48B	35D1, 35E5, 36E0, 36E5, 36F5, 37E1, 37D5, 37E5, 38D1, 38D5	
RTNA	35C1, 35C5, 36C0, 36C5, 36F5, 37C1, 37F1, 37C5, 37D5, 38C1, 38E1, 38C5	
RTNB	35D1, 35E5, 36E0, 36E5, 36F5, 37E1, 37D5, 37E5, 38D1, 38D5	

DC POWER DISTRIBUTION

DWG SIZE	ISSUE
C2	15B

AT&T	SD-5D005-01	SHEET A3

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INTERFRAME LEAD INDEX (CONT)

DESIG	LOCATION FS	LOCATION CAD
TAPE UNIT CABINET		
-48A	11F0	
-48B	11F0	
RTNA	11F0	
RTNB	11G0	

TAPE UNIT FRAME WITH CABINET ASSEMBLY		
-48A	14B6	
-48B	14B6	
RTNA	14B6	
RTNB	14C6	

TIME MULTIPLEX SWITCH FRAME CABINET		
-48A	5B0, 12B0	
-48B	5F0, 12E0	
RTNA	5B0, 12B0	
RTNB	5F0, 12E0	

TYPICAL OLDER TYPE POWER PLANT USING CEMF OR EMERGENCY CELL SWITCHING		
-48	16B3	
-48A	16B6	
-48B	16B6	
-48AINV	16C6	
-48BINV	16C6	
ABS	16D6	
RTN	16B3	
RTNA	16B6	
RTNB	16B6	
RTNADW	16C6	
RTNBDW	16C6	

LEAD INDEX CONNECTING CIRCUITS

CIRCUIT TITLE	CIRCUIT LEAD INDEX LOCATION
-48V POWER PLANT DISCHARGE DISTRIBUTION	2A0
3B PROCESSOR CONTROL CABINET (0)	2E0
3B PROCESSOR CONTROL CABINET (1)	2F0
3B PROCESSOR MOVING HEAD DISK CABINET (0)	2G0
3B PROCESSOR MOVING HEAD DISK CABINET (1)	2A1
3B PROCESSOR MOVING HEAD DISK FRAME (2)	2B1
3B PROCESSOR PERIPHERAL CONTROL FRAME (0)	2C1
3B PROCESSOR PERIPHERAL CONTROL FRAME (1)	2D1
3B TAPE/DISK CABINET	2E1
3B20D MODEL 3 SCSI DISK CABINET SDC 0	2F1
3B20D MODEL 3 SCSI DISK CABINET SDC 1	2G1
3B21D BASIC CABINET	2A3
AUDIBLE ALARM UNIT	2B3
COMMUNICATION MODULE MODEL 2	2C3
COMMUNICATION MODULE - MODEL 2 (SINGLE FABRIC)	2D3
COUNTER ELECTROMOTIVE FORCE CELLS (CEMF)	2E3
DATAKIT II VCS HIGHGATE CIRCUIT	2F3
DCSS CABINET	2F3
DISK POWER CONTROL CABINET	2G3
EMERGENCY CELLS (END CELLS)	2A4
EXPORT DATASET CABINET	2B4
INTERFACE MODULE CONTROL CABINET	2C4
JOB CONDITION ARRANGEMENT TO ELIMINATE REQUIREMENT FOR 117V POWER FROM POWER SERVICE CABINET	2C4
LINEAGE 2000 MCS POWER PLANT	2E4
LINE TRUNK FRAME (DOUBLE BAY)	2F4
LINE TRUNK PERIPHERAL CABINET	2G4
LTP CABINET	2A5
MAIN DISTRIBUTING FRAME	2F5
MAINTENANCE CONTROL CENTER CONSOLE	2G5
MCC/TRUNK LINE WORK STATION	2H5
MESSAGE SWITCH CABINET	2A6
MESSAGE SWITCH FRAME (DOUBLE BAY)	2B6
MISCELLANEOUS CABINET	2C6
MISCELLANEOUS FRAME	2F6
MODEM POOLING CABINET	2A7
POWER DISTRIBUTION CABINET	2B7
PROTECTED AC INVERTER	2C7
SUPPLEMENTARY LINE TRUNK FRAME	2D7
SUPPLEMENTARY TRUNK LINE WORK STATION	2D7
SWITCHING MODULE CONTROL CABINET	2E7
SWITCHING MODULE CONTROL CABINET MODEL 2	2F7,2A9
TAPE UNIT CABINET	3A0
TAPE UNIT FRAME WITH CABINET ASSEMBLY	3B0
TIME MULTIPLEX SWITCH FRAME CABINET	3C0
TYPICAL OLDER TYPE POWER PLANT USING CEMF OR EMERGENCY CELL SWITCHING	3D0

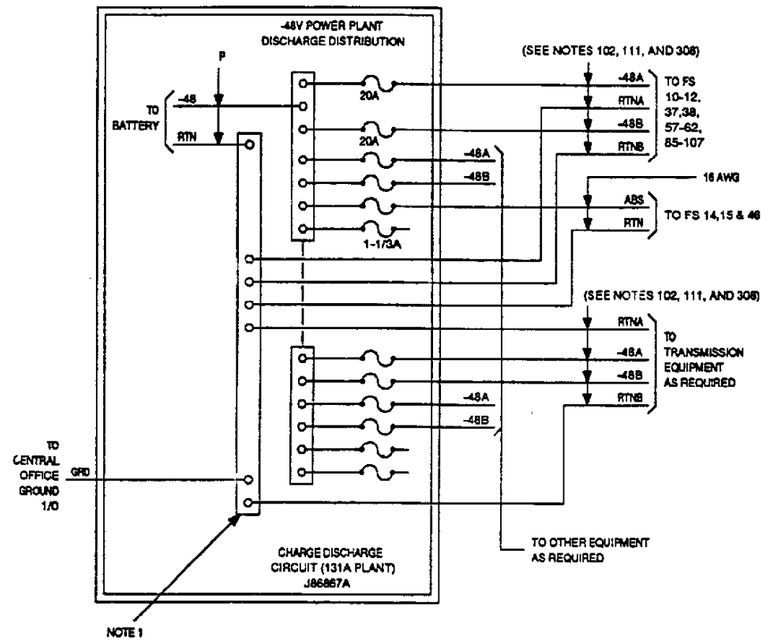
DC POWER DISTRIBUTION

DWG SIZE	ISSUE
C2	15B

AT&T	SD-5D005-01	SHEET
		A4

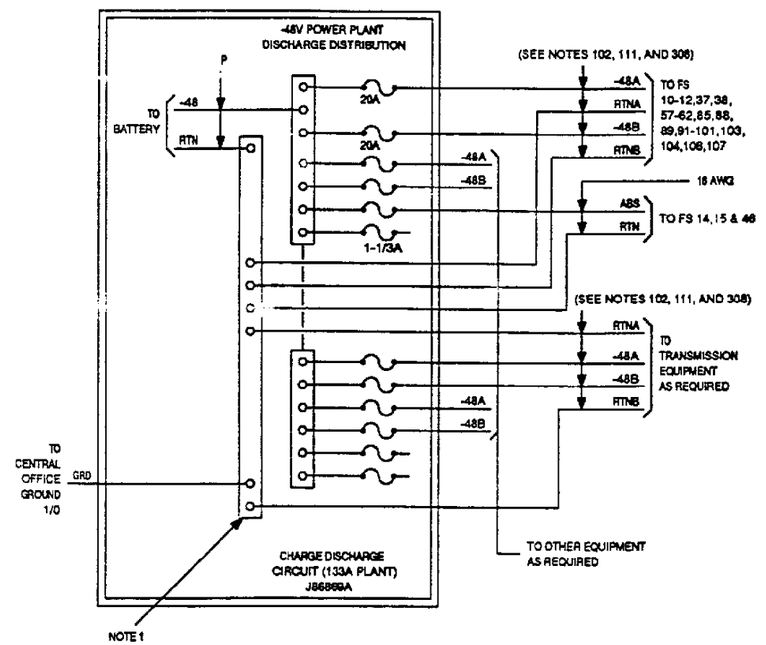
FS 1

131A POWER PLANT, 70 AMP
(SEE NOTES 102 & 117)



FS 2

133A POWER PLANT, 140 AMP
(SEE NOTES 102 & 117)



NOTES:

1. THIS FUNCTIONS AS THE ESS GROUND WINDOW, PER FS 7.
2. THESE SMALLER POWER PLANTS ARE USED WITH THE NO. 5 ESS WHEN IT DOES NOT INCLUDE A 3B PROCESSOR.

DC POWER DISTRIBUTION

DWG SIZE	ISSUE
C2	15B

AT&T	SD-5D005-01	SHEET
		B1

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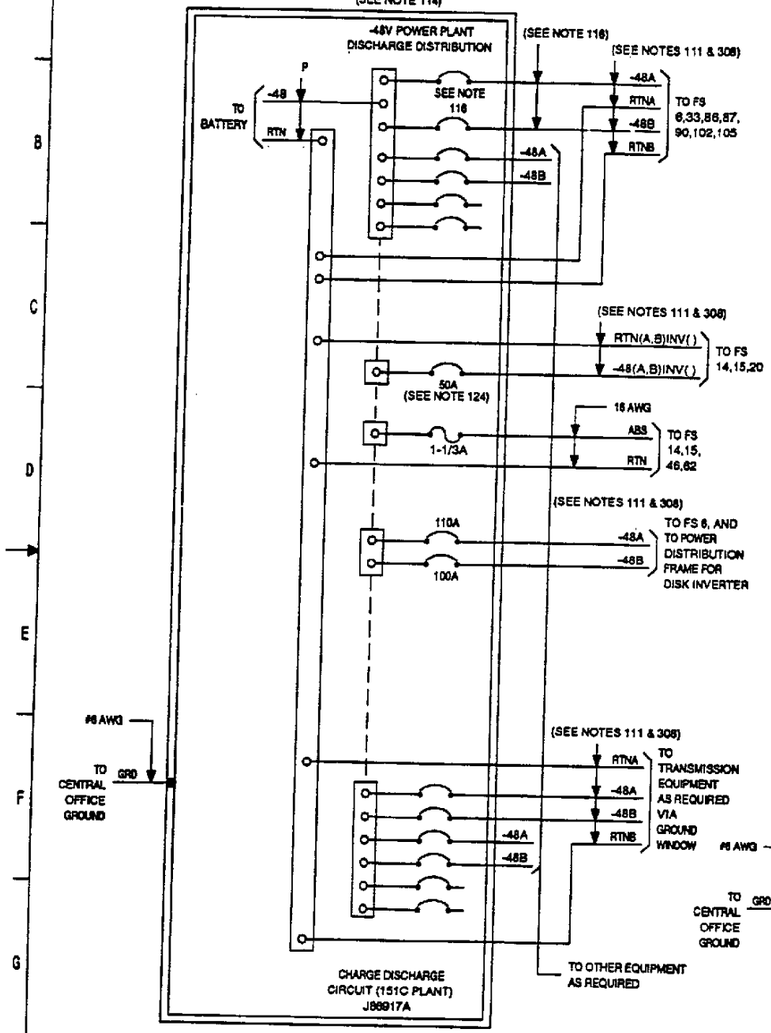
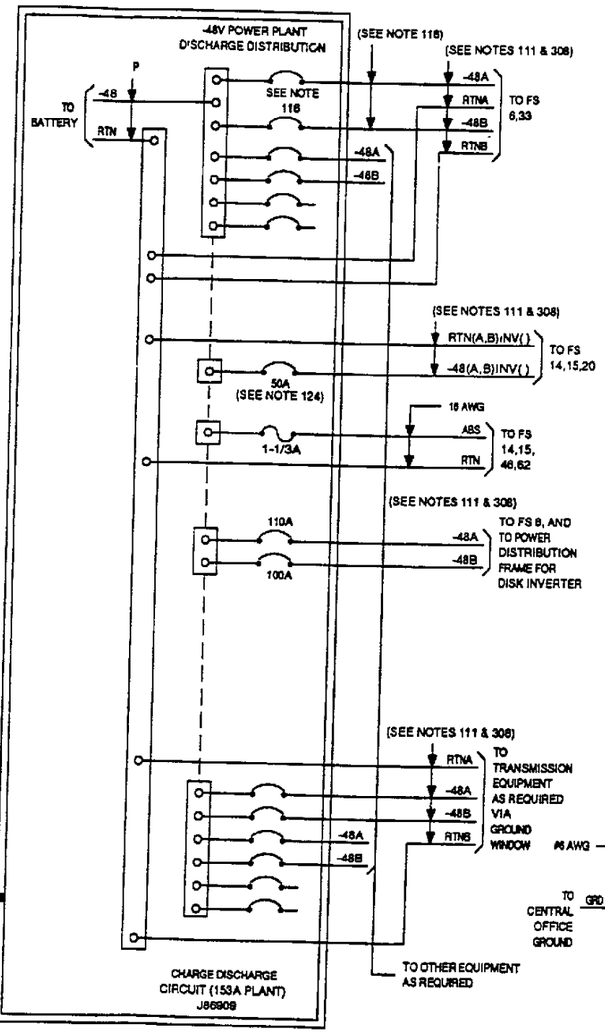
FS 3

151B, 151C POWER PLANT -48V, 600 AMP
(SEE NOTE 114)



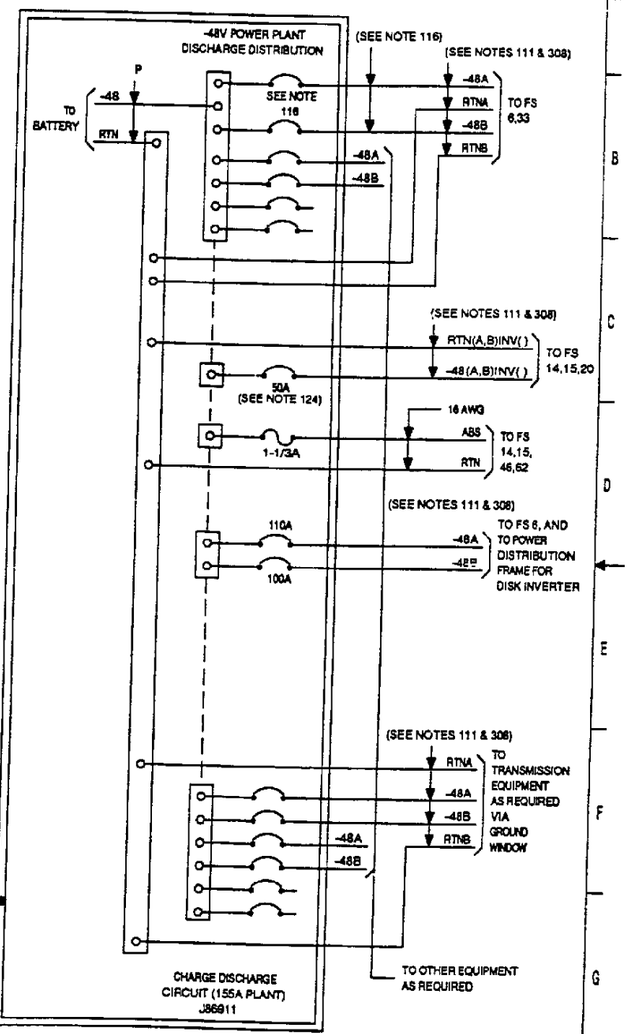
FS 4

153A POWER PLANT, 1200 AMP



FS 5

155A POWER PLANT, 2400 AMP



DC POWER DISTRIBUTION

DWG SIZE	ISSUE
C2	15B

AT&T	SD-5D005-01	SHEET
		82

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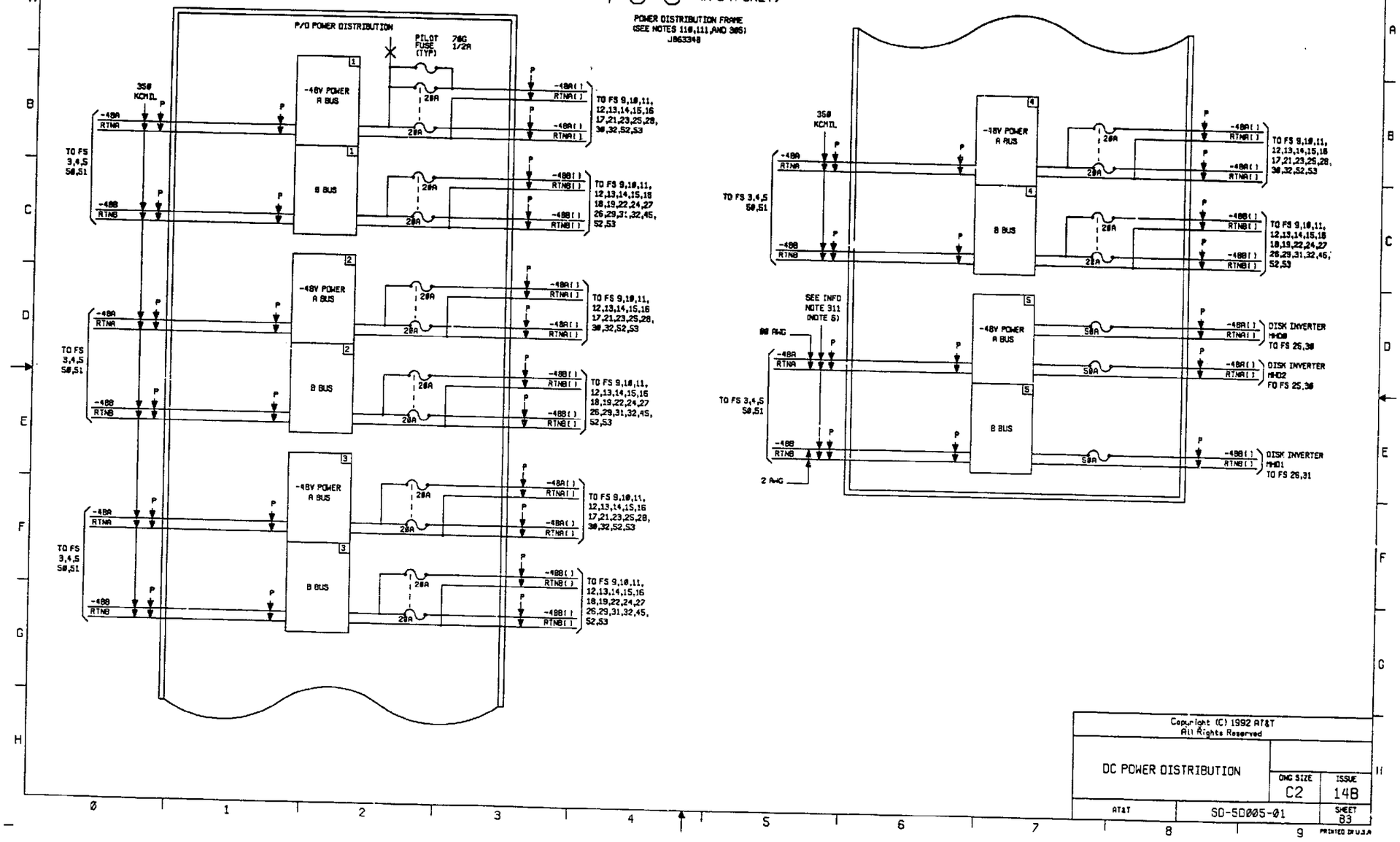
FS 6 (A & M ONLY)



DC POWER DISTRIBUTION

DWG SIZE	ISSUE
C2	14B

AT&T	SD-50005-01	SHEET
		83

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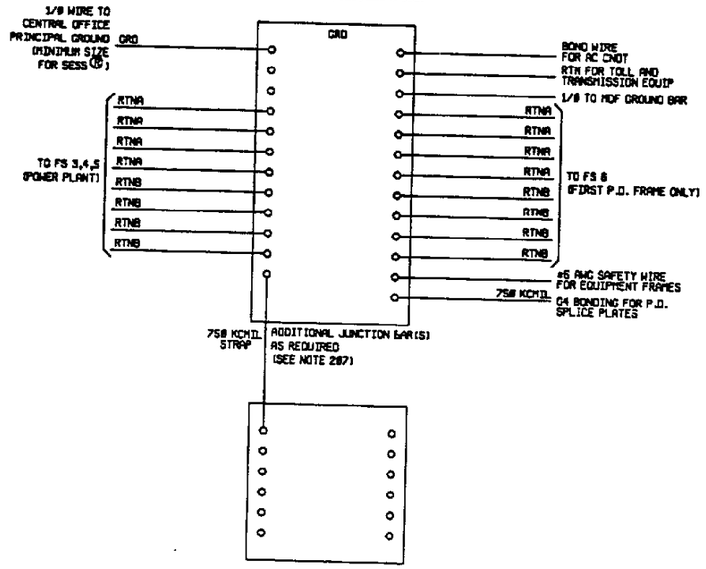
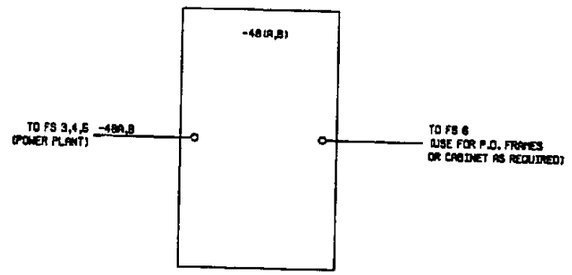
FS 7

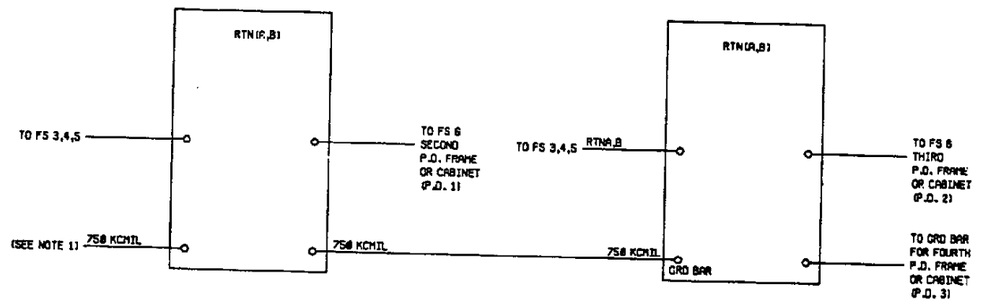
ESS SINGLE POINT GROUND JUNCTION BAR (GROUND WINDOW)
TYPICALLY LOCATED AT FIRST P.D. FRAME OR CABINET
(SEE NOTES 114, 126, 286 & 389)



FS 8

JUNCTION BARS (SPLICE PLATES)
AT P.D. FRAME OR CABINET IF REQUIRED
(SEE NOTES 125, 286 & 389)





NOTES:

1. RUN THIS LEAD TO P.D. 8 ONLY IF IT HAS JUNCTION BARS AND/OR A GROUND WINDOW; OTHERWISE NOT REQUIRED.

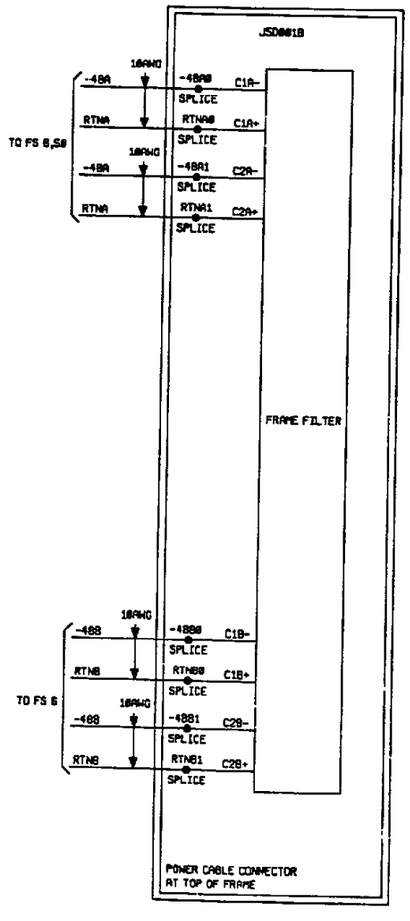
DC POWER DISTRIBUTION

DWG SIZE	ISSUE
C2	14B

AT&T	SD-5D005-01	SHEET
		84

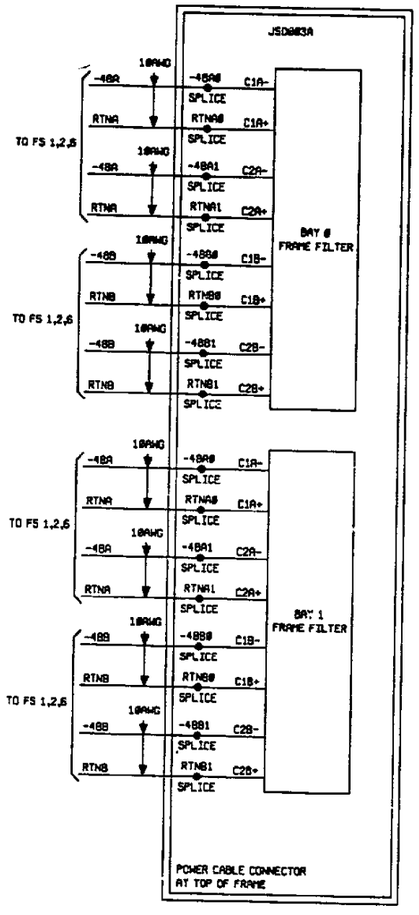
FS 9 (A & M ONLY)

TIME MULTIPLEXED SWITCH FRAME, CABINET (7 FT)
(SEE NOTE 110, 111 AND 118)



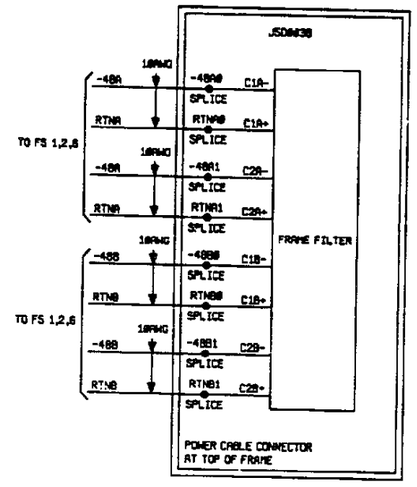
FS 10 (A & M ONLY)

LINE TRUNK FRAME (DOUBLE BAY)
(SEE NOTE 110 AND 111)



FS 11 (A & M ONLY)

SUPPLEMENTARY LINE TRUNK FRAME
(SEE NOTE 110 AND 111)



OC POWER DISTRIBUTION

DWG SIZE	ISSUE
C2	14B

AT&T	SD-50005-01	SHEET
		85

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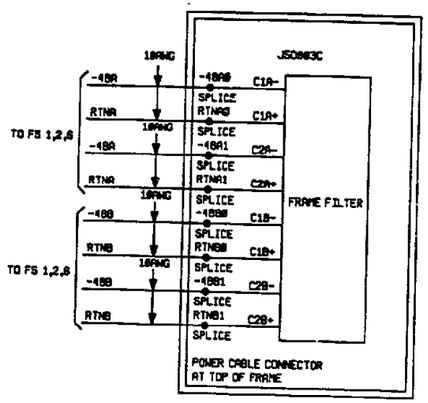
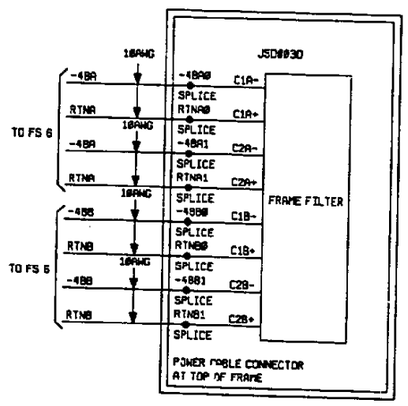
FS 12 (A & M ONLY)

INTERFACE MODULE CONTROL CABINET (7 FT)
(SEE NOTES 110 AND 111)



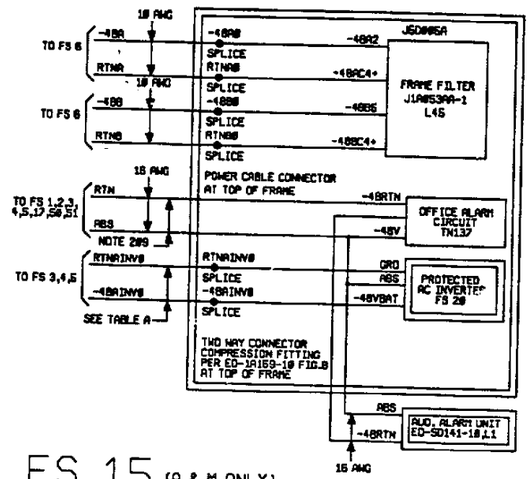
FS 13 (A & M ONLY)

LINE TRUNK PERIPHERAL CABINET (7 FT)
(SEE NOTES 110 AND 111)



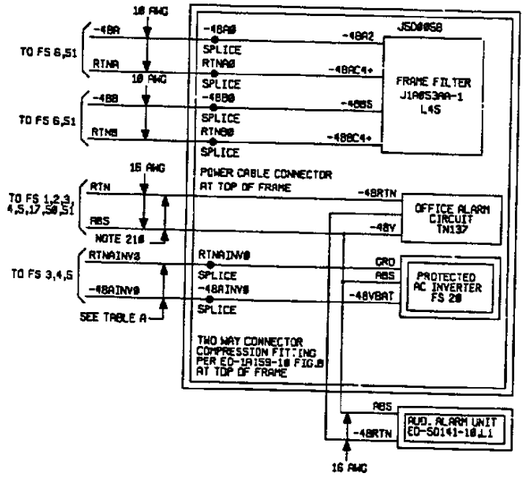
FS 14 (A & M ONLY)

MISCELLANEOUS FRAME
(SEE NOTES 110, 111 AND 113)



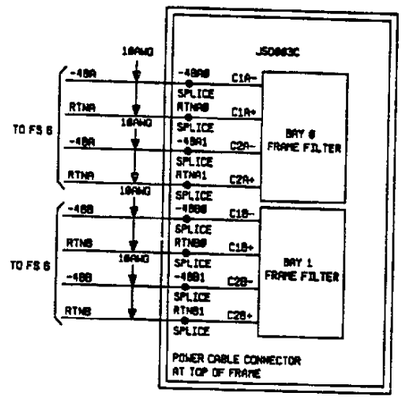
FS 15 (A & M ONLY)

MISCELLANEOUS CABINET (7 FT)
(SEE NOTES 110,111,113,123,208, & 210)



FS 16 (A & M ONLY)

MESSAGE SWITCH FRAME (DOUBLE BAY)
(SEE NOTES 110 AND 111)

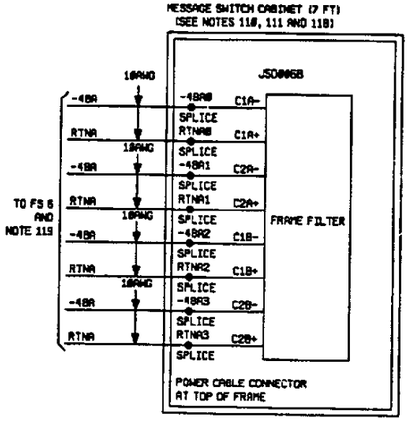


DC POWER DISTRIBUTION

CAD SIZE	ISSUE
C2	14B

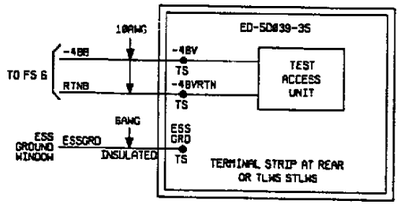
AT&T	SD-5D005-01	SHEET
		86

FS 17 (A & M ONLY)



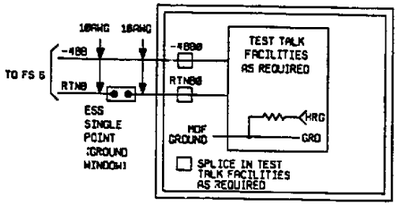
FS 18

MAINTENANCE CONTROL CENTER CONSOLE/
TRUNK LINE WORK STATION OR
SUPPLEMENTARY TRUNK LINE WORK STATION
(SEE NOTES 110 AND 111)



FS 19

MAIN DISTRIBUTING FRAME
(SEE NOTE 115)



FS 20 (D.A.)

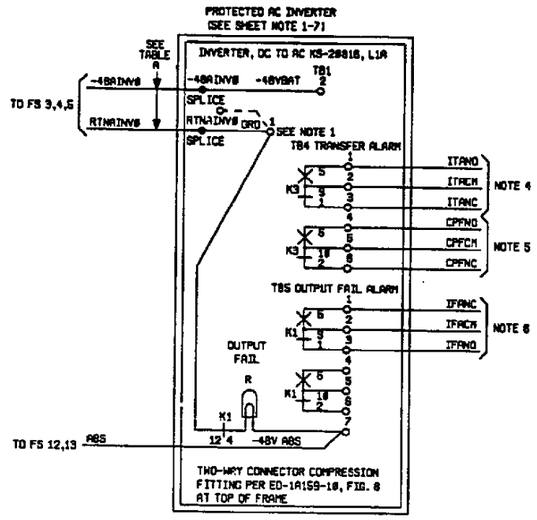


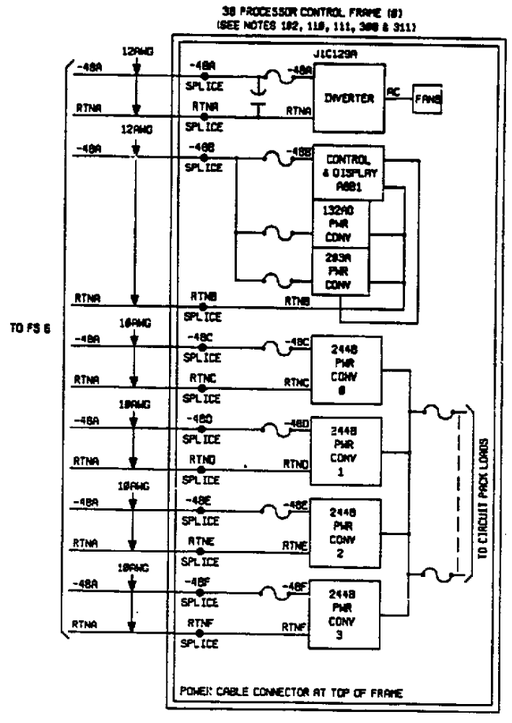
TABLE A

TERM. CAB.	LOOP LENGTH TO BATTERY PLANT IN FEET (NOT TO PD FRAME)	MIN WIRE SIZE	LUG (T & B OR EQUIV)	MIN FUSING
3/16-18 STUD	UP TO 50 FEET	6GA	54135	50 AMP
	50-100 FEET	2GA (SEE NOTE 3)		

NOTES:

1. REMOVE STRAP FROM TB1 TERMINAL 1 TO FR GRD.
2. FR GRD TERMINAL WILL THEN BE USED AS FR GRD FOR AC OUTPUT CIRCUIT.
3. FEEDER WITHIN ESS FRAME IS NUMBER 6GA, TERMINATED AT TOP OF FRAME PER ED-1A159-10, FIG. 8. IF HEAVIER GAUGE WIRE IS REQUIRED, USE T&B "C" TAP COMPRESSION LUG (OR EQUIV) TO CONNECT TO HEAVIER WIRE, ABOVE ESS FRAME, PER TABLE A. A 3 FOOT LENGTH OF NUMBER 6 GAUGE WIRE SHOULD BE ORDERED TO MAKE THIS CONNECTION. FOR 2 GAUGE, USE KS-5482-01 WIRE.
4. INVERTER TRANSFER ALARM (ITA) IS INDICATED BY A CONTACT CLOSURE FROM 1 TO 2 OR A CONTACT OPENING FROM 2 TO 3 ON TB4, WHEN THE INVERTER TRANSFERS DUE TO LOSS OF COMMERCIAL AC INPUT. THIS SHOULD BE CONNECTED TO SCAN POINT SC31 AS THE INVERTER TRANSFER ALARM.
5. LOSS OF COMMERCIAL AC IS INDICATED BY A CONTACT CLOSURE FROM 4 TO 5 OR A CONTACT OPENING FROM 5 TO 6 ON TB4. IF NO OTHER CONTACT OPERATION IS AVAILABLE IN THE OFFICE, THIS MAY BE USED AS THE COMMERCIAL POWER FAILURE CONNECTION FOR SCAN POINT SC47 AS THE COM PWR FAIL ALARM.
6. THE INVERTER FAIL ALARM (INV FAIL) IS INDICATED BY CONTACT CLOSURE FROM 2 TO 3 OR A CONTACT OPENING FROM 1 TO 2 ON TB5 DK1 IS NORMALLY OPERATED). THIS SHOULD BE CONNECTED TO SCAN POINT SC29 AS THE INV FAIL ALARM.
7. SEE SD-5D004-01 FOR SCHEMATIC INFORMATION ON PROTECTED AC.
8. SEE SD-5D008-01 FOR OFFICE ALARM CIRCUIT INFORMATION AND SD-5D007-01, ASSIGNMENT RULES FOR SCAN POINT ASSIGNMENT AND USAGE.

FS 21 (A & M ONLY)



DC POWER DISTRIBUTION

DWG SIZE	ISSUE
C2	148

AT&T	SD-5D005-01	SHEET
		87

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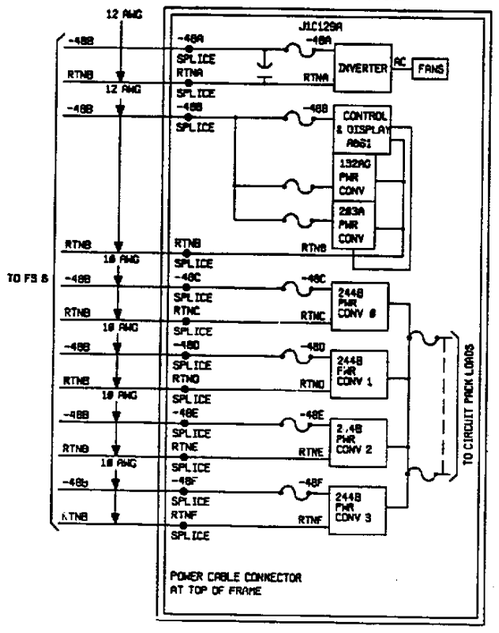
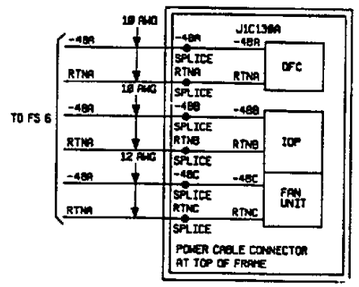
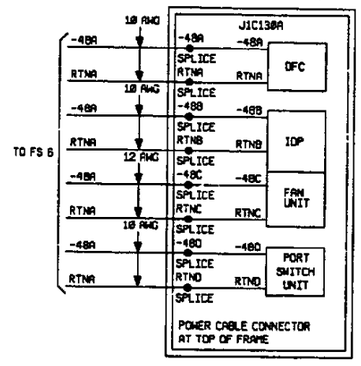
FS 22 (A & M ONLY)



FS 23 (A & M ONLY)



FS 24 (A & M ONLY)



DC POWER DISTRIBUTION

DWG SIZE	ISSUE
C2	14B

AT&T	SD-5D005-01	SHEET
		68

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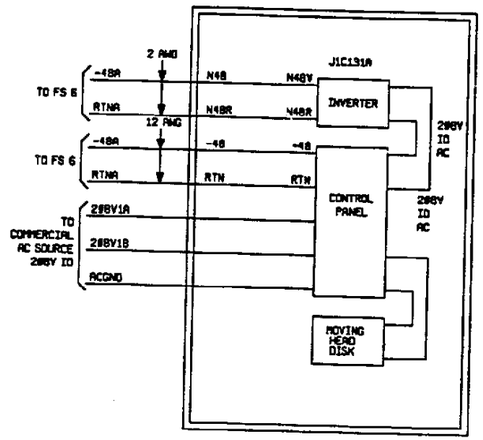
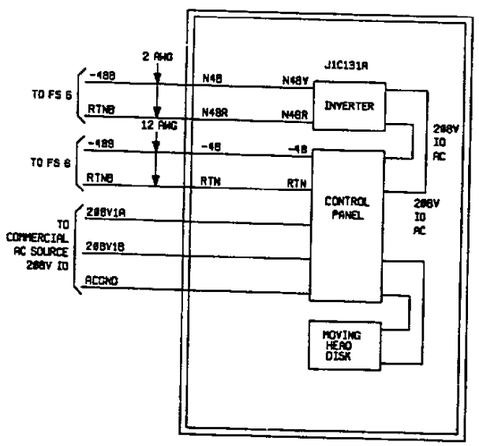
FS 25 (A & M ONLY)

3B PROCESSOR MOVING HEAD DISK FRAME (0)
(SEE NOTES 102,110,111,300,311)



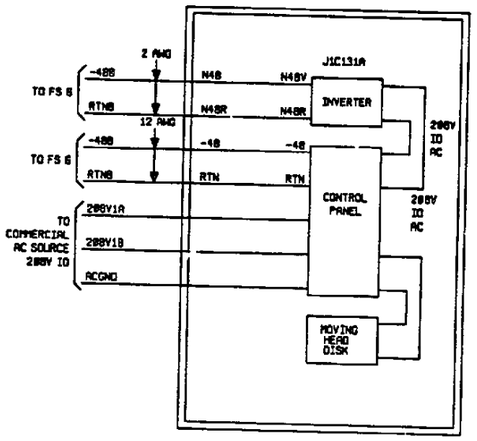
FS 26 (A & M ONLY)

3B PROCESSOR MOVING HEAD DISK FRAME (1)
(SEE NOTES 102,110,111,300,311)



FS 27 (A & M ONLY)

3B PROCESSOR MOVING HEAD DISK FRAME (2)
(SEE NOTES 102,110,111,300,311)



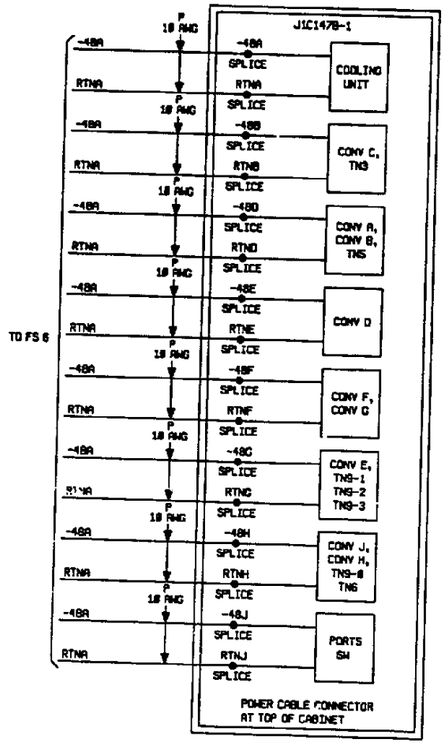
DC POWER DISTRIBUTION

DWG SIZE	ISSUE
C2	14B

AT&T	SD-5D005-01	SHEET
		89

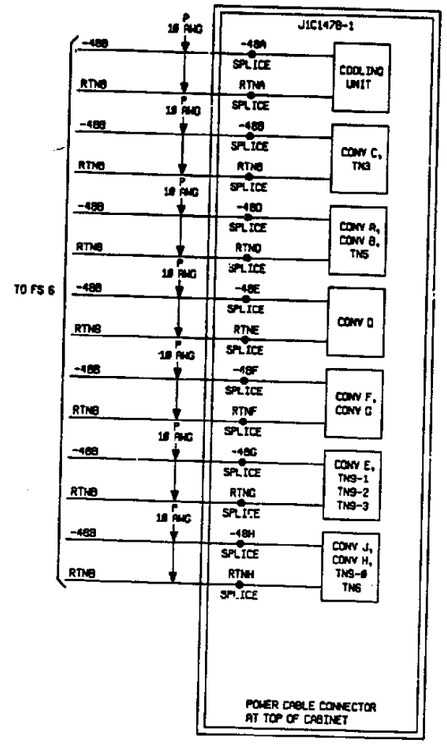
FS 28 (A & M ONLY)

3B PROCESSOR CONTROL CABINET 0, (7 FT)
(SEE NOTES 102, 110, 111, 300 & 311)



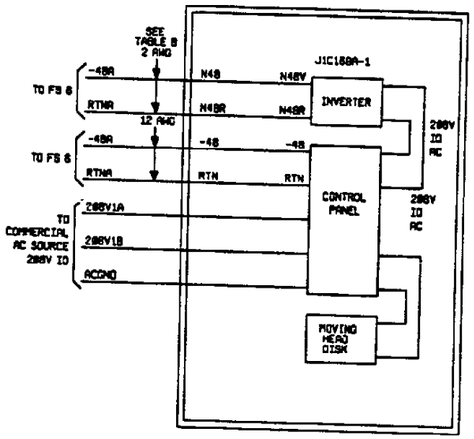
FS 29 (A & M ONLY)

3B PROCESSOR CONTROL CABINET 1, (7 FT)
(SEE NOTES 102, 110, 111, 300 & 311)



FS 30 (A & M ONLY)

3B PROCESSOR MOVING HEAD DISK CABINET 0,2 (7 FT)
(SEE NOTE 102, 110, 111, 300 & 311)



DC POWER DISTRIBUTION

DWG SIZE	ISSUE
C2	14B

AT&T	SD-5000S-01	SHEET 810

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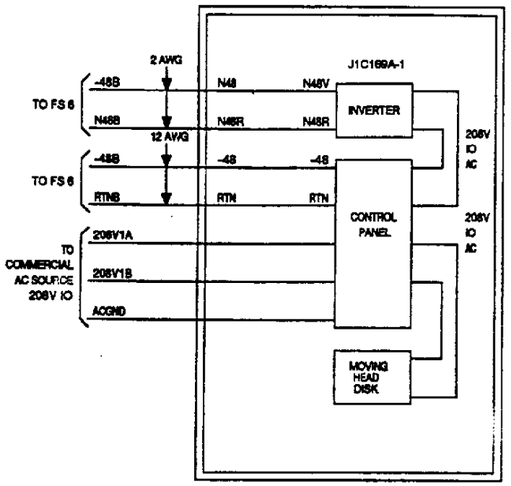
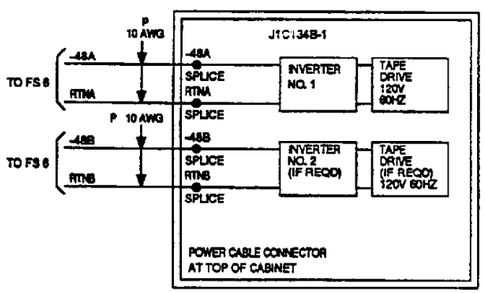
FS 31 (A & M ONLY)

38 PROCESSOR MOVING HEAD DISK CABINET, 1 (7 FT)
(SEE NOTES 102,110,111,308,311)



FS 32

TAPE UNIT FRAME, CABINET (7 FT)



FS 33

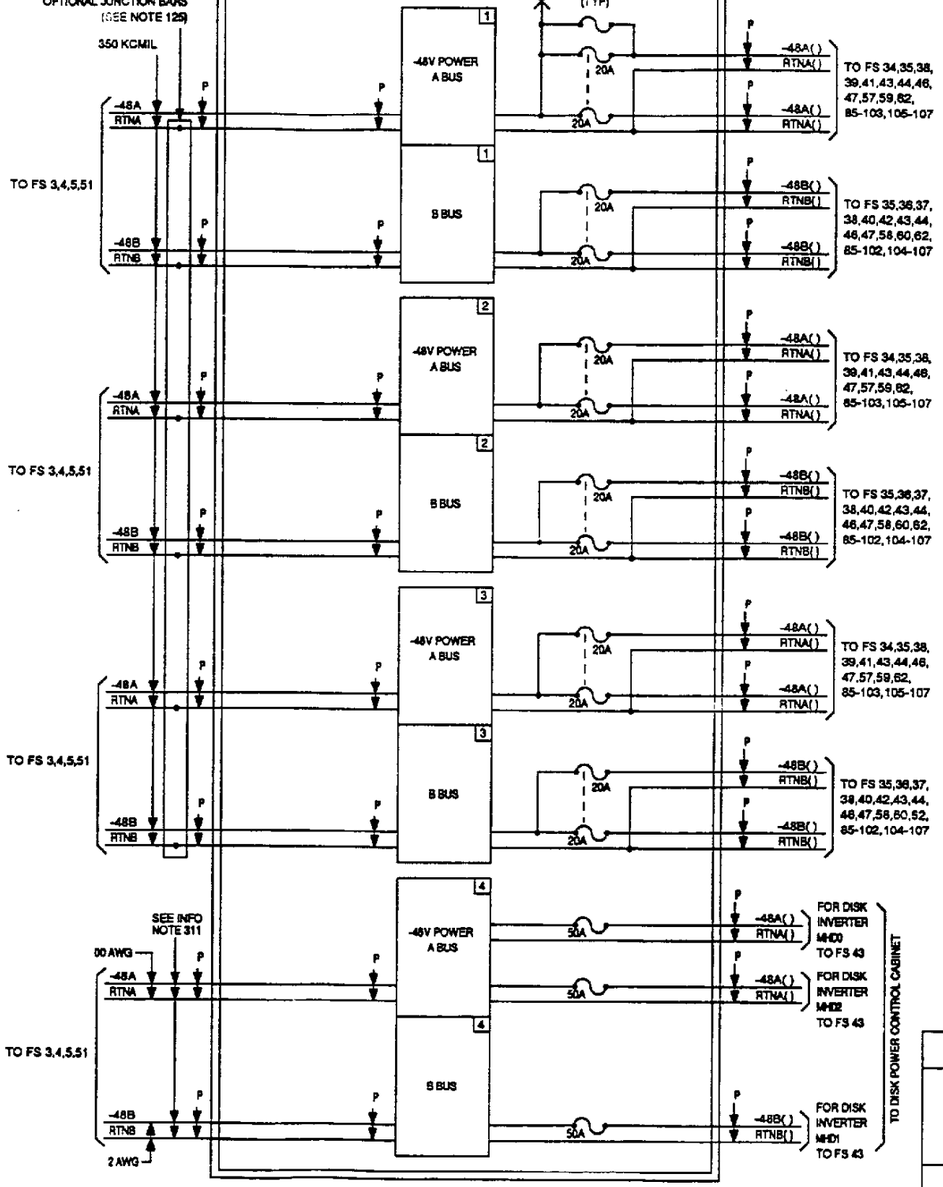
POWER DISTRIBUTION CABINET (6 FT) (SEE NOTES 110,111,125,212,214,220,305,& 324)

P/O POWER DISTRIBUTION J86334D

OPTIONAL JUNCTION BARS (SEE NOTE 125)

350 KCMIL

PILOT FUSE (TYP) 70G 1/2A



DC POWER DISTRIBUTION

DWG SIZE	ISSUE
C2	15B

AT&T	SD-5D005-01	SHEET
		B11

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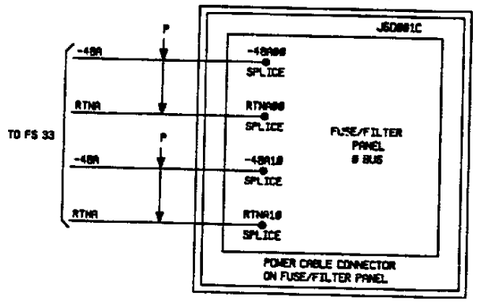
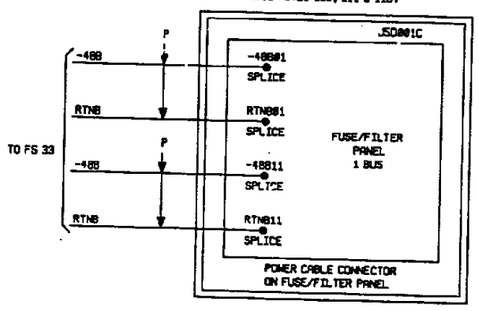
FS 34

TIME MULTIPLEX SWITCH CABINET, BAY 0 (6 FT)
(SEE NOTES 110, 111 & 115)



FS 35

TIME MULTIPLEX SWITCH CABINET, BAY 1 (6 FT)
(SEE NOTES 110, 111 & 115)

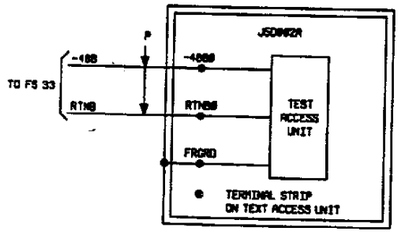


NOTES:

1. UNLESS OTHERWISE SPECIFIED,
   ALL PAIRED WIRES ARE 18 AWG.

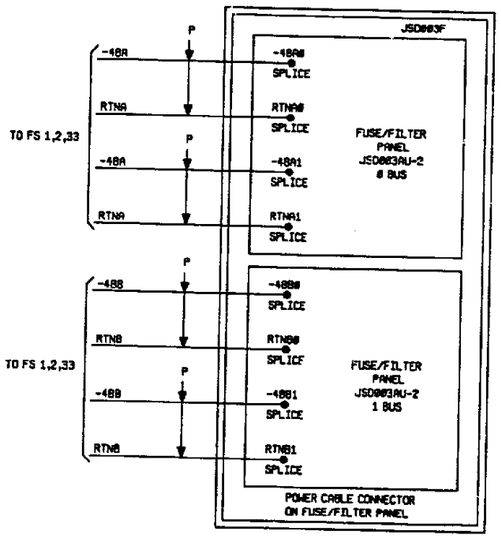
FS 36

MAINTENANCE CONTROL CENTER CABINET (6 FT)



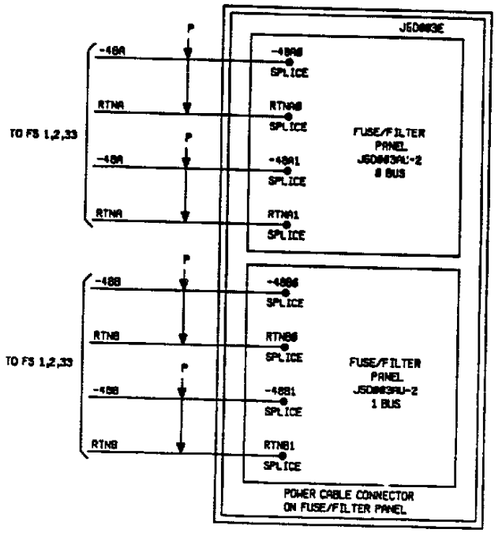
FS 37

LINE TRUNK PERIPHERAL CABINET (6 FT)
(SEE NOTE 110 & 111)



FS 38

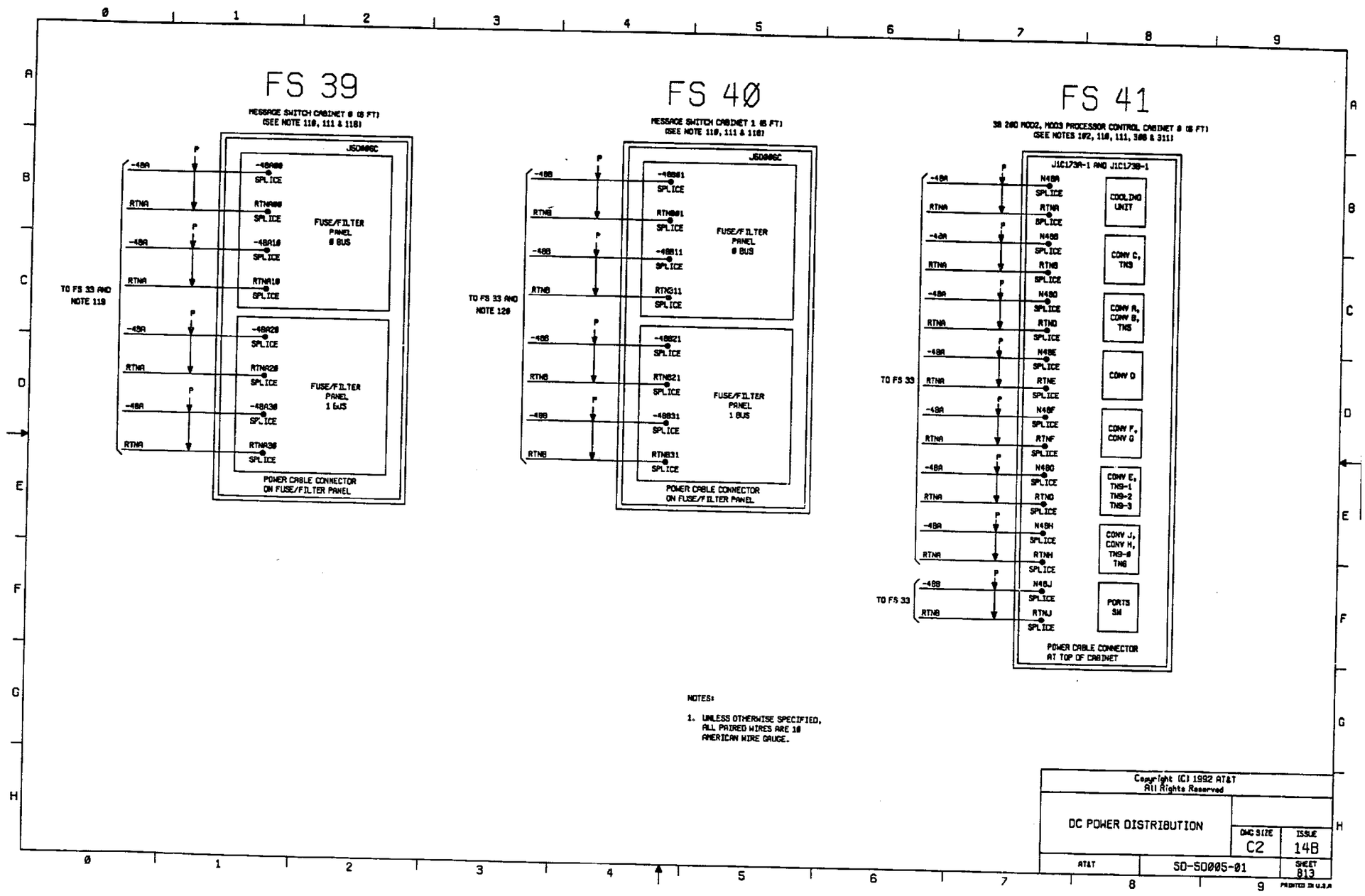
SWITCH MODULE CONTROL CABINET (6 FT)
(SEE NOTE 110 & 111)



DC POWER DISTRIBUTION

DWG SIZE	ISSUE
C2	14B

AT&T	SD-5D005-01	SHEET 812



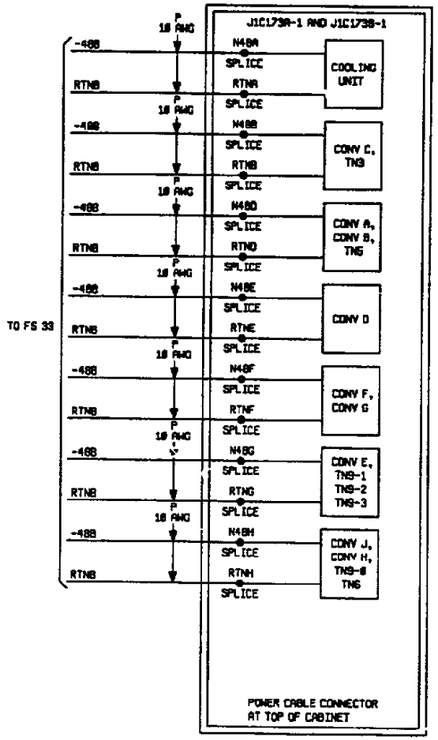
DC POWER DISTRIBUTION

DWG SIZE	ISSUE
C2	14B

AT&T	SD-5D005-01	SHEET
		813

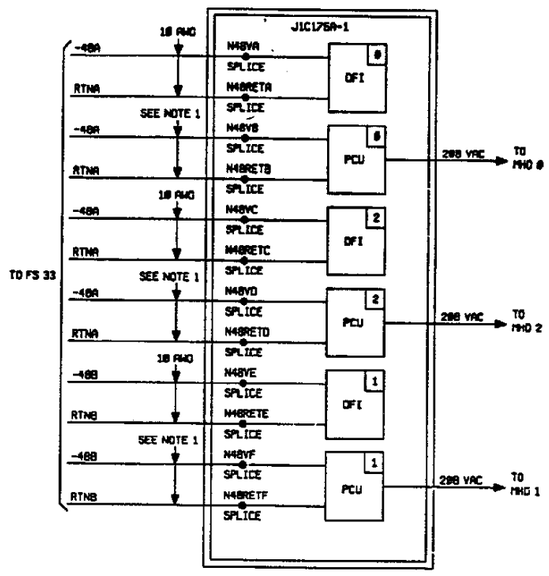
FS 42

38 280 MOD2,MOD3 PROCESSOR CONTROL CABINET 1 (6 FT)
(SEE NOTES 102, 110, 111, 300 & 311)



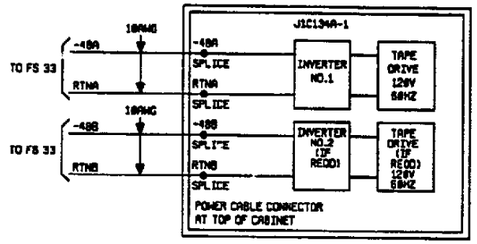
FS 43

DISK POWER CONTROL CABINET, 6 FT CABINET



FS 44

TAPE UNIT FRAME WITH CABINET ASSEMBLY, 6 FT CABINET



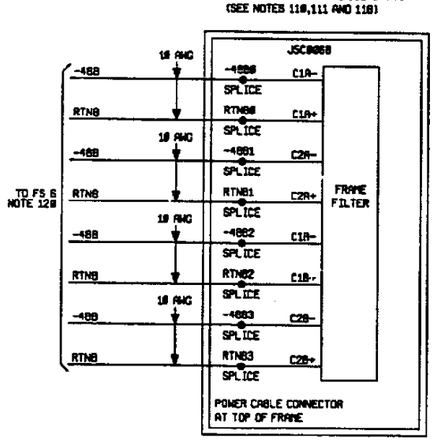
NOTE:

1. DC POWER FEEDERS FROM PD TO MMD CABINET SHALL BE FURNISHED AS FOLLOWS:

ONE WAY CABLE RACK FEET	WIRE GAUGE
0-35 FEET	4 GAUGE
35-60 FEET	2 GAUGE
60-100 FEET	0 GAUGE
100-125 FEET	00 GAUGE
125-200 FEET	0000 GAUGE

FS 45 (A & M ONLY)

MESSAGE SWITCH CABINET 1 BUS (7 FT)
(SEE NOTES 110,111 AND 118)



DC POWER DISTRIBUTION

DWG SIZE	ISSUE
C2	14B

AT&T	SD-50005-01	SHEET 814

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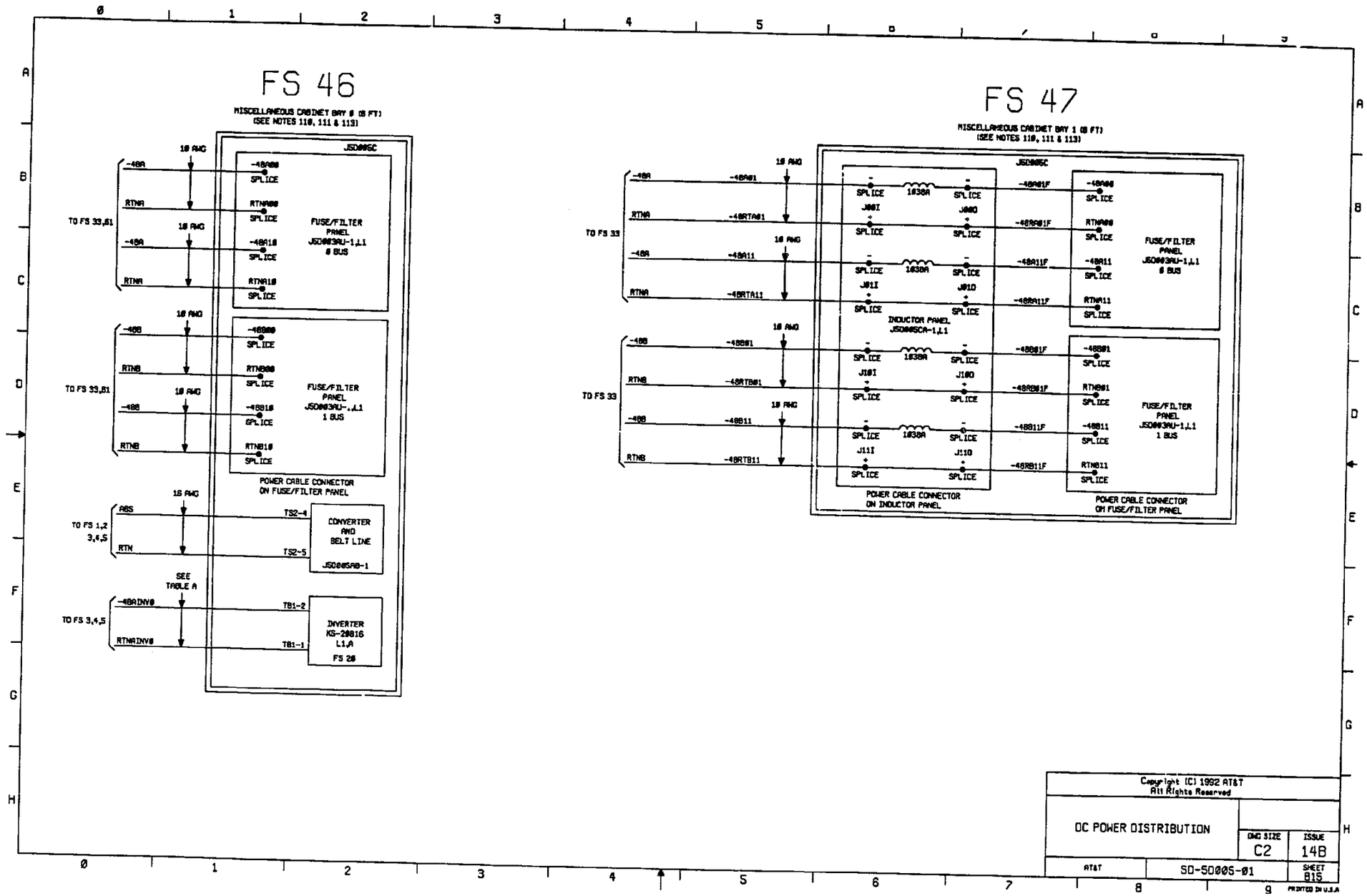


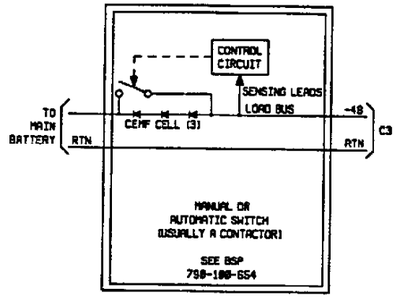
DC POWER DISTRIBUTION

DWG SIZE	ISSUE
C2	14B

AT&T	SD-50005-01	SHEET
		815

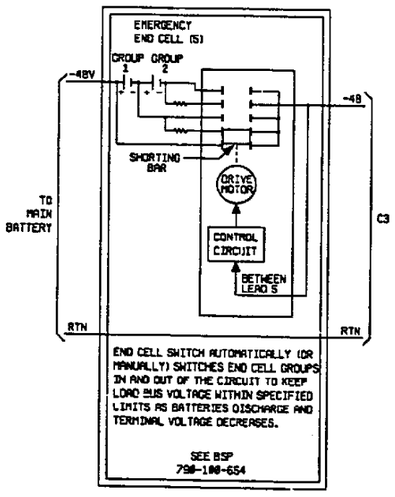
FS 48

COUNTER ELECTROMOTIVE FORCE CELLS (CEMF)



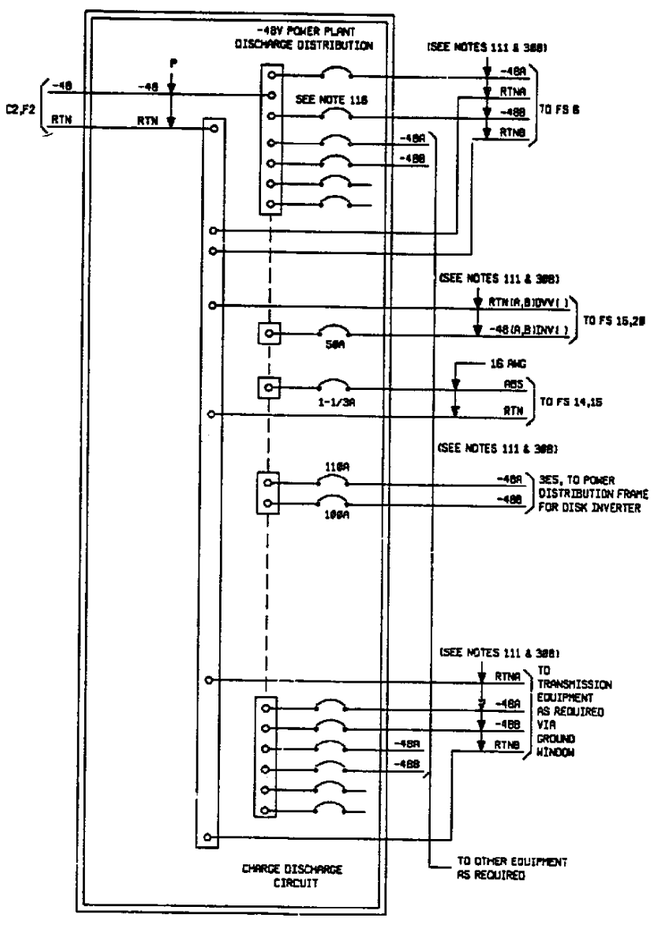
FS 49

EMERGENCY CELLS (END CELLS)



FS 50

TYPICAL OLDER TYPE POWER PLANT USING CEMF OR EMERGENCY CELL SWITCHING



NOTES:

SESS MAY BE USED WITH OLDER TYPE POWER PLANTS WHICH USE CEMF OR EMERGENCY CELL (END CELL) SWITCHING PROVIDED THE FOLLOWING CONSTRAINTS ARE MET:

1. CEMF STEP VOLTAGE TRANSIENTS ARE LIMITED TO TYPICALLY 2 VOLTS AND NO MORE THAN 4 VOLTS.
2. EMERGENCY CELL STEP VOLTAGE TRANSIENTS ARE LIMITED TO APPROXIMATELY 4.4 VOLTS, AS WOULD BE OBTAINED WHEN SWITCHING 2 CELLS IN EACH CELL GROUP. USE OF 3 OR MORE CELLS PER GROUP IS NOT PERMITTED WITH SESS.
3. SESS GROUNDING RULES PER ED-5D822-01 AND BSP 982-001-195 MUST BE MET.
4. THE PLANT MUST MAINTAIN ITS OUTPUT VOLTAGE WITHIN ESS LIMITS.
5. BATTERY RESERVE CALCULATIONS SHOULD BE VERIFIED.

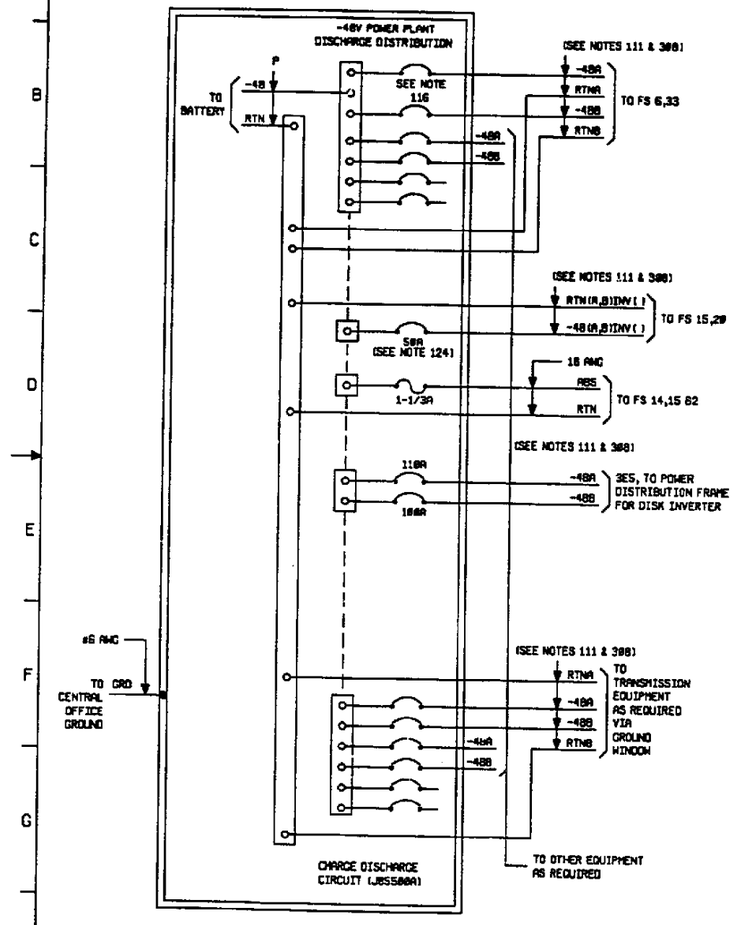
DC POWER DISTRIBUTION

DWG SIZE	ISSUE
C2	14B

AT&T	SD-5D005-01	SHEET 816

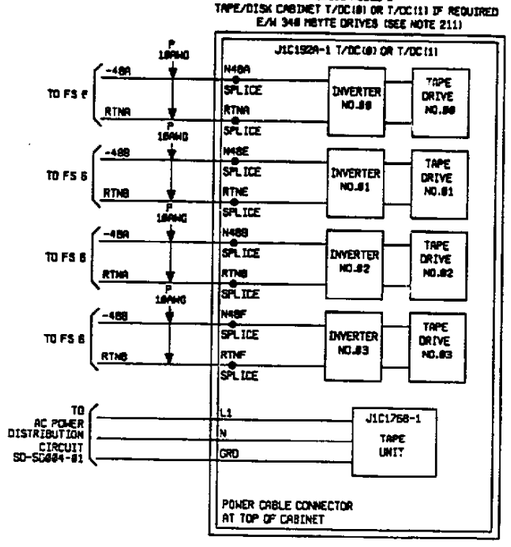
FS 51

LINEAGE 2000 MCS POWER PLANT, 3200 AMP



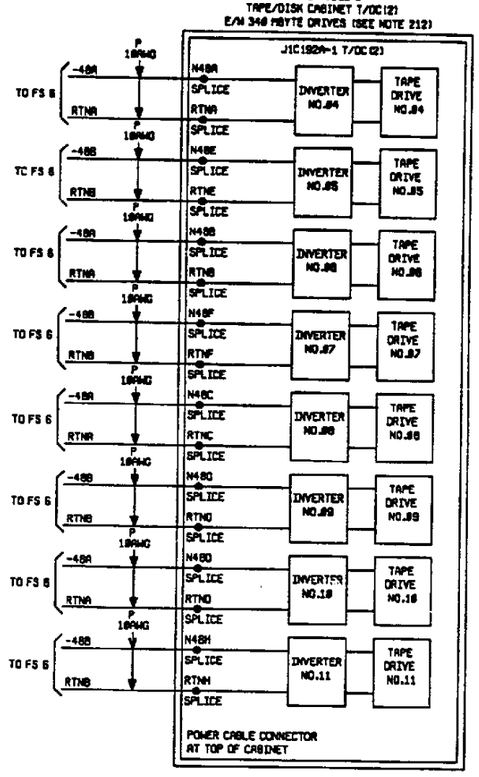
FS 52

3828D MODEL 3
TAPE/DISK CABINET T/DC(0) OR T/DC(1) IF REQUIRED
E/W 340 MBYTE DRIVES (SEE NOTE 211)



FS 53

3828D MODEL 3
TAPE/DISK CABINET T/DC(2)
E/W 340 MBYTE DRIVES (SEE NOTE 212)



DC POWER DISTRIBUTION

CAD SIZE	ISSUE
C2	14B

AT&T	SD-5D005-01	SHEET
		B17

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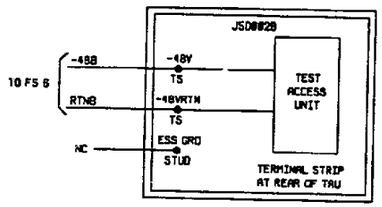
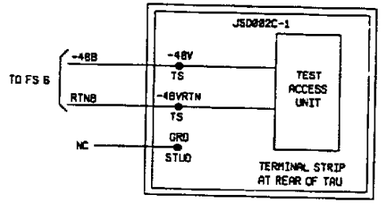
FS 54

SUPPLEMENTARY
TRUNK LINE WORK STATION
21'' DEEP CABINET (6 FT)



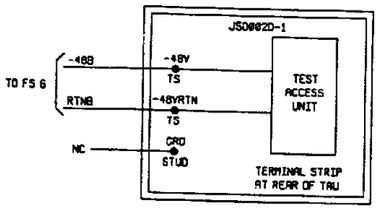
FS 55

MAINTENANCE CONTROL CENTER/
TRUNK LINE WORK STATION
30'' DEEP CABINET (6 FT)



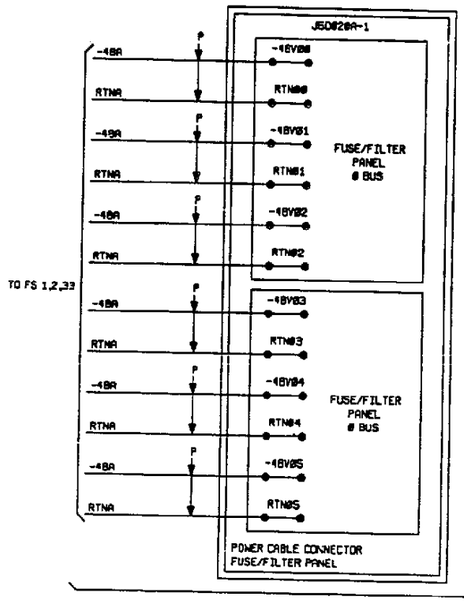
FS 56

SUPPLEMENTARY
TRUNK LINE WORK STATION
21'' DEEP CABINET (6 FT)



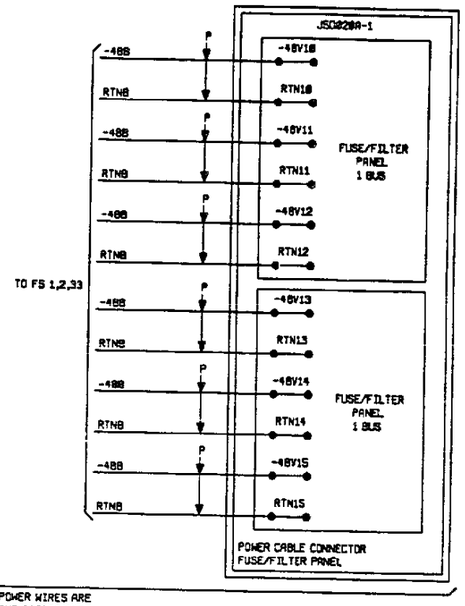
FS 57

COMMUNICATION MODULE MODEL 2, BASIC
(BAY 5) CABINET 0 (6 FT)



FS 58

COMMUNICATION MODULE MODEL 2, BASIC
(BAY 6) CABINET 1 (6 FT)



ALL POWER WIRES ARE
18 AWG PAIRED PER
ED-5A079-30, CB

DC POWER DISTRIBUTION

DMC SIZE	ISSUE
C2	14B

AT&T	SD-5D005-01	SHEET 818

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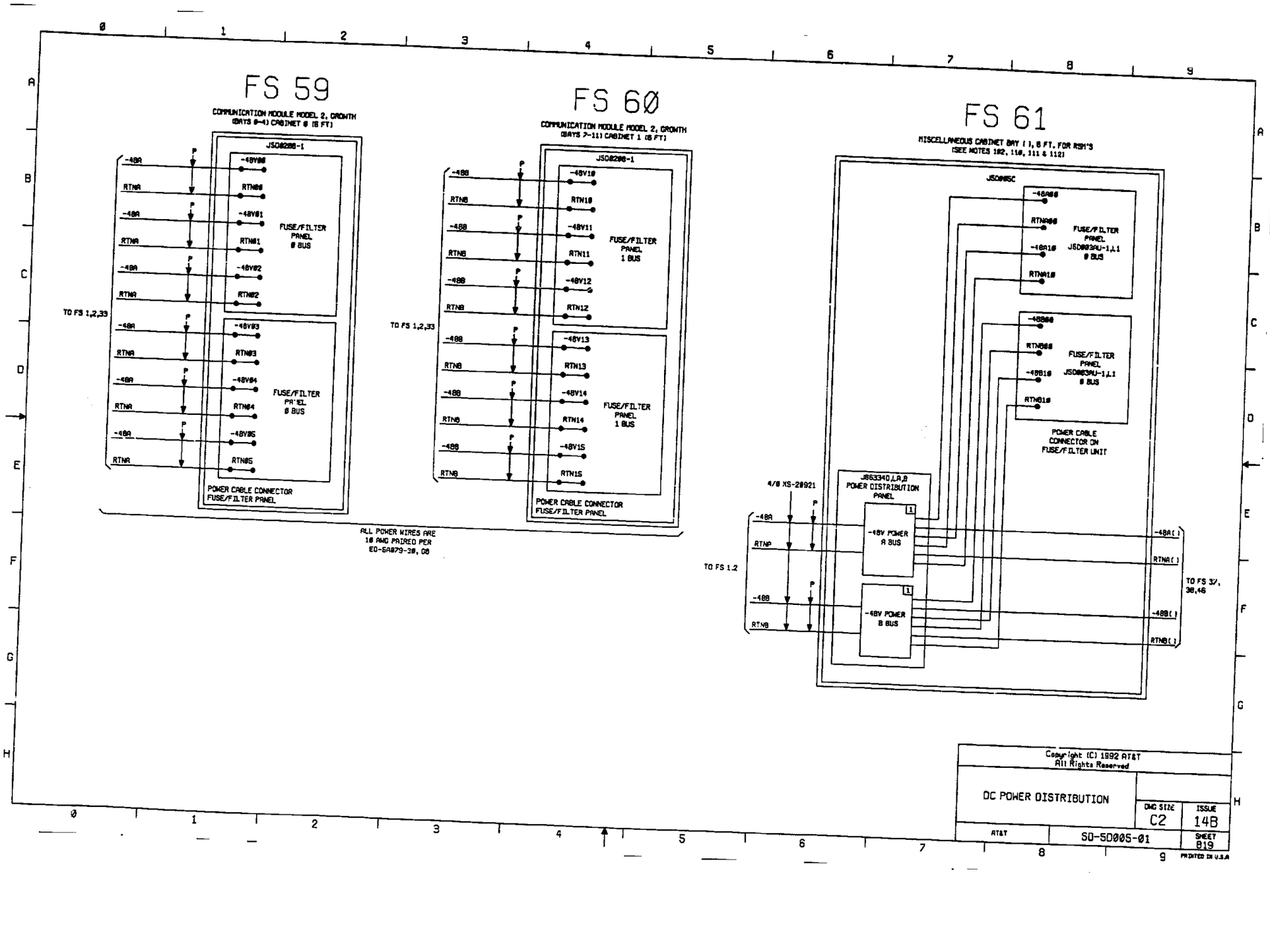
FS 59
COMMUNICATION MODULE MODEL 2, GROWTH
(BAYS 0-4) CABINET 0 (6 FT)
JSD0286-1
-48A
RTNA
-48V00
RTN00
-48V01
RTN01
-48V02
RTN02
-48V03
RTN03
-48V04
RTN04
-48V05
RTN05
FUSE/FILTER PANEL 0 BUS
FUSE/FILTER PANEL 0 BUS
TO FS 1,2,33
POWER CABLE CONNECTOR FUSE/FILTER PANEL
FS 60
COMMUNICATION MODULE MODEL 2, GROWTH
(BAYS 7-11) CABINET 1 (6 FT)
JSD0298-1
-48B
RTNB
-48V10
RTN10
-48V11
RTN11
-48V12
RTN12
-48V13
RTN13
-48V14
RTN14
-48V15
RTN15
FUSE/FILTER PANEL 1 BUS
FUSE/FILTER PANEL 1 BUS
TO FS 1,2,33
POWER CABLE CONNECTOR FUSE/FILTER PANEL
ALL POWER WIRES ARE 10 AWG PAIRED PER ED-6A879-30, CB
FS 61
MISCELLANEOUS CABINET BAY 1, 6 FT. FOR RSM'S
(SEE NOTES 102, 110, 111 & 112)
JSD0115C
-48A00
RTNA00
-48A10
RTNA10
FUSE/FILTER PANEL JSD0093AU-1,1,1 0 BUS
-48B00
RTNB00
-48B10
RTNB10
FUSE/FILTER PANEL JSD0093AU-1,1,1 0 BUS
POWER CABLE CONNECTOR ON FUSE/FILTER UNIT
J863340,1,A,B POWER DISTRIBUTION PANEL
4/0 XS-28921
-48A
RTNA
-48V POWER A BUS
-48B
RTNB
-48V POWER B BUS
TO FS 1,2
-48A( )
RTNA( )
-48B( )
RTNB( )
TO FS 37, 38,46
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DC POWER DISTRIBUTION
DWG SIZE C2
ISSUE 14B
AT&T
SD-5D005-01
SHEET 819
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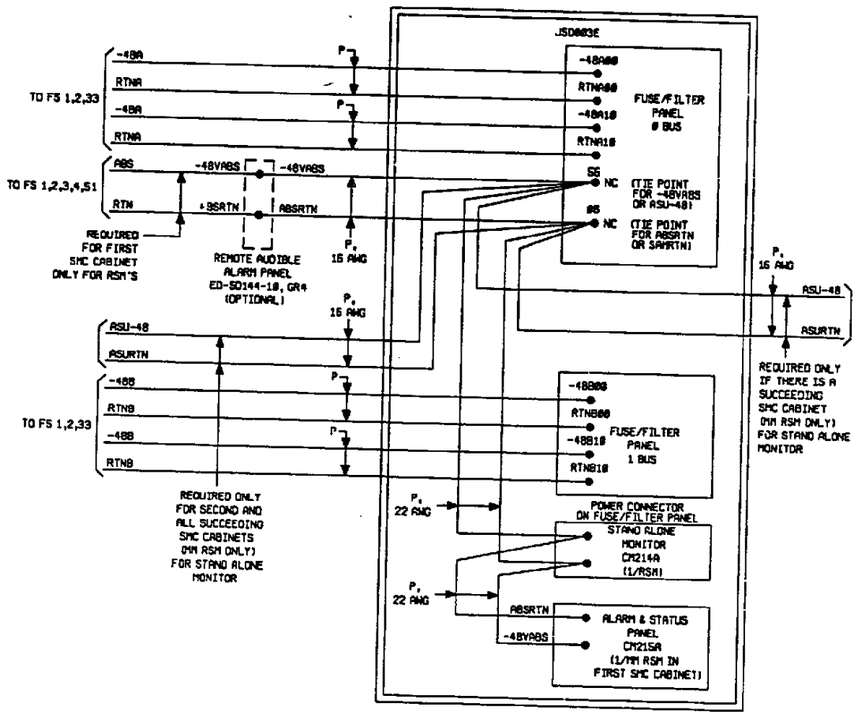
FS 62

SWITCHING MODULE CONTROL CABINET (6 FT)
(SEE NOTES 110, 111 & 213)



DC POWER DISTRIBUTION

DMC SIZE	ISSUE
C2	14B

AT&T	SD-5D00S-01	SHEET
		820

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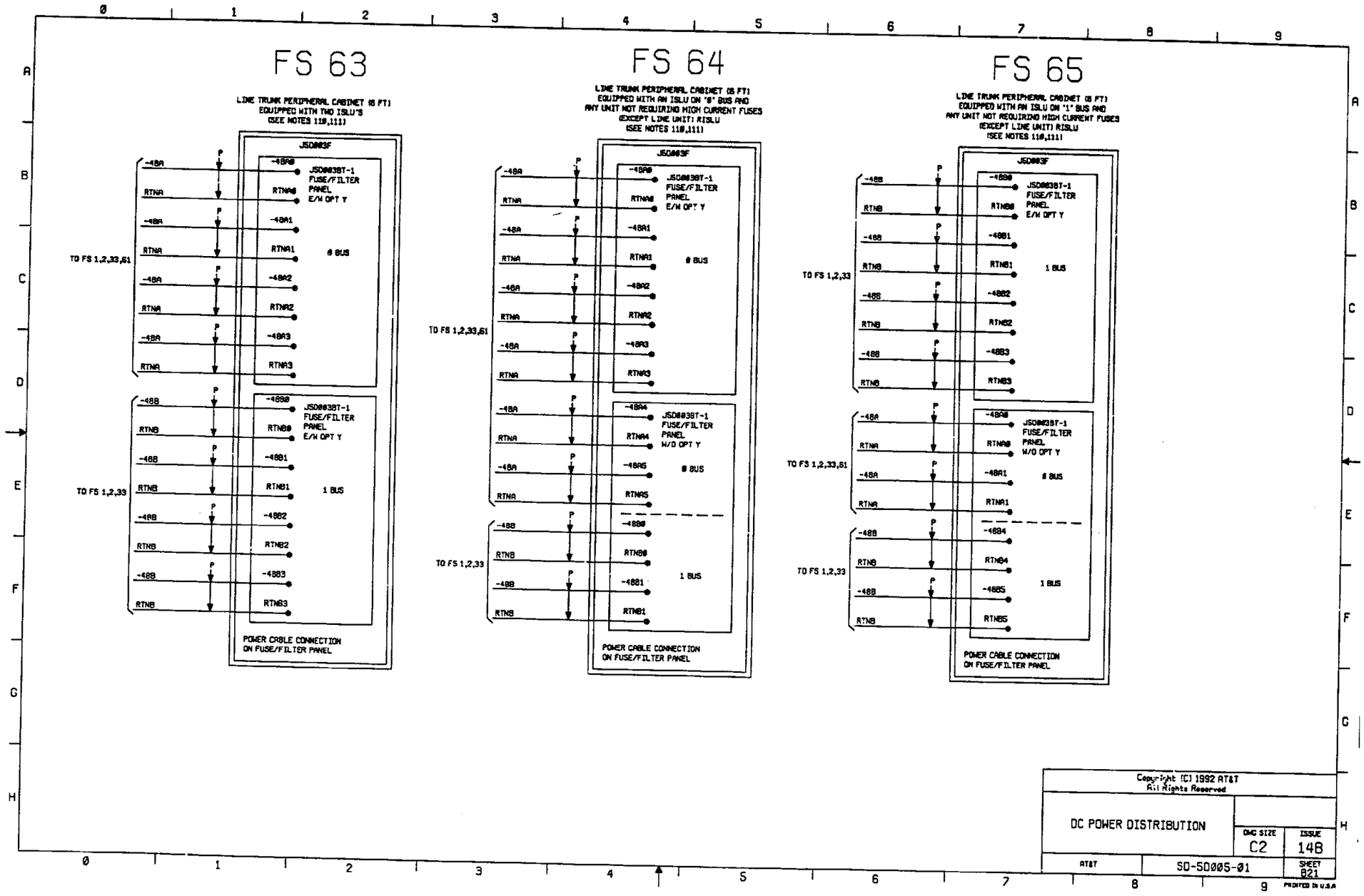
FS 63
LINE TRUNK PERIPHERAL CABINET (6 FT)
EQUIPPED WITH TWO ISLU'S
(SEE NOTES 110,111)
JSD003F
JSD003BT-1
FUSE/FILTER
PANEL
E/W OPT Y
0 BUS
1 BUS
TO FS 1,2,33,61
TO FS 1,2,33
POWER CABLE CONNECTION
ON FUSE/FILTER PANEL
FS 64
LINE TRUNK PERIPHERAL CABINET (6 FT)
EQUIPPED WITH AN ISLU ON "0" BUS AND
ANY UNIT NOT REQUIRING HIGH CURRENT FUSES
(EXCEPT LINE UNIT: RISLU
(SEE NOTES 110,111)
JSD003BT-1
FUSE/FILTER
PANEL
W/O OPT Y
FS 65
LINE TRUNK PERIPHERAL CABINET (6 FT)
EQUIPPED WITH AN ISLU ON "1" BUS AND
ANY UNIT NOT REQUIRING HIGH CURRENT FUSES
(EXCEPT LINE UNIT) RISLU
(SEE NOTES 110,111)
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DC POWER DISTRIBUTION
DWG SIZE
C2
ISSUE
148
AT&T
SD-5D005-01
SHEET
821
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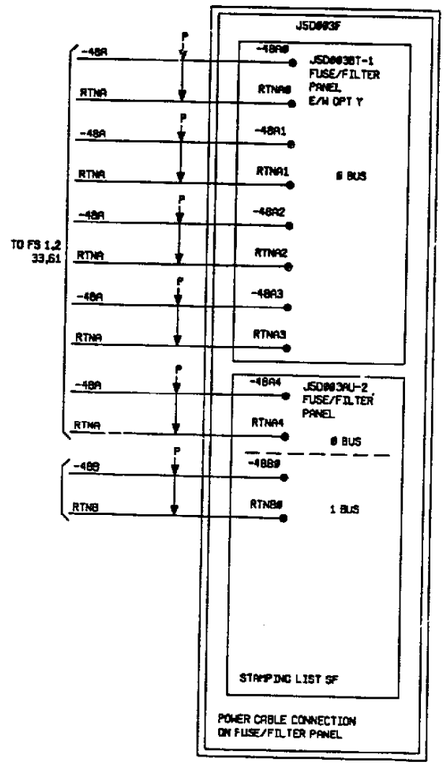
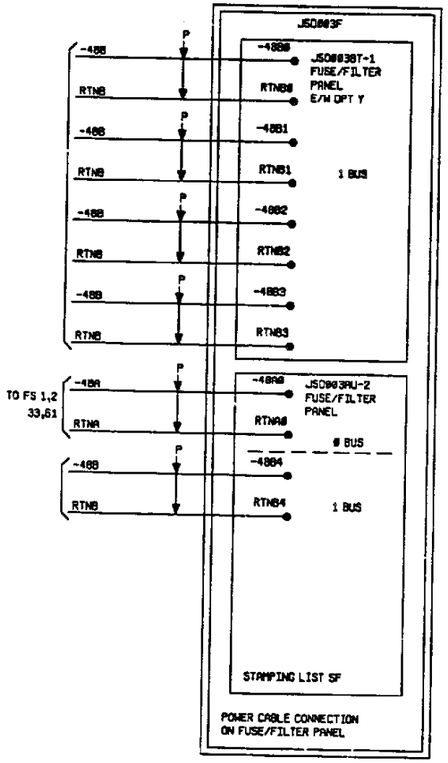
FS 66

LINE TRUNK PERIPHERAL CABINET (6 FT)
EQUIPPED WITH AN ISLU ON "0" BUS AND
ANY UNIT REQUIRING HIGH CURRENT FUSES
OR WITH A LINE UNIT
(SEE NOTES 110,111)



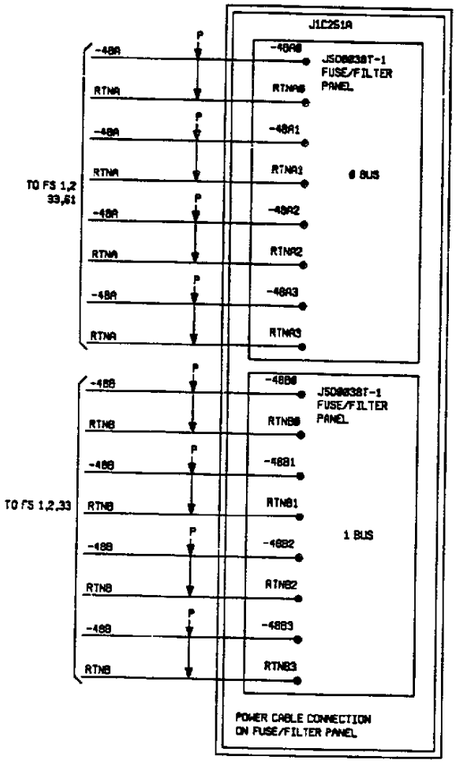
FS 67

LINE TRUNK PERIPHERAL CABINET (6 FT)
EQUIPPED WITH AN ISLU ON "1" BUS AND
ANY UNIT REQUIRING HIGH CURRENT FUSES
OR WITH A LINE UNIT
(SEE NOTES 110,111)



FS 68

TRANSMISSION FACILITY CABINET (6 FT)
(SEE NOTES 110,111)



DC POWER DISTRIBUTION

DWG SIZE	ISSUE
C2	14B

AT&T	SD-5D005-01	SHEET
		822

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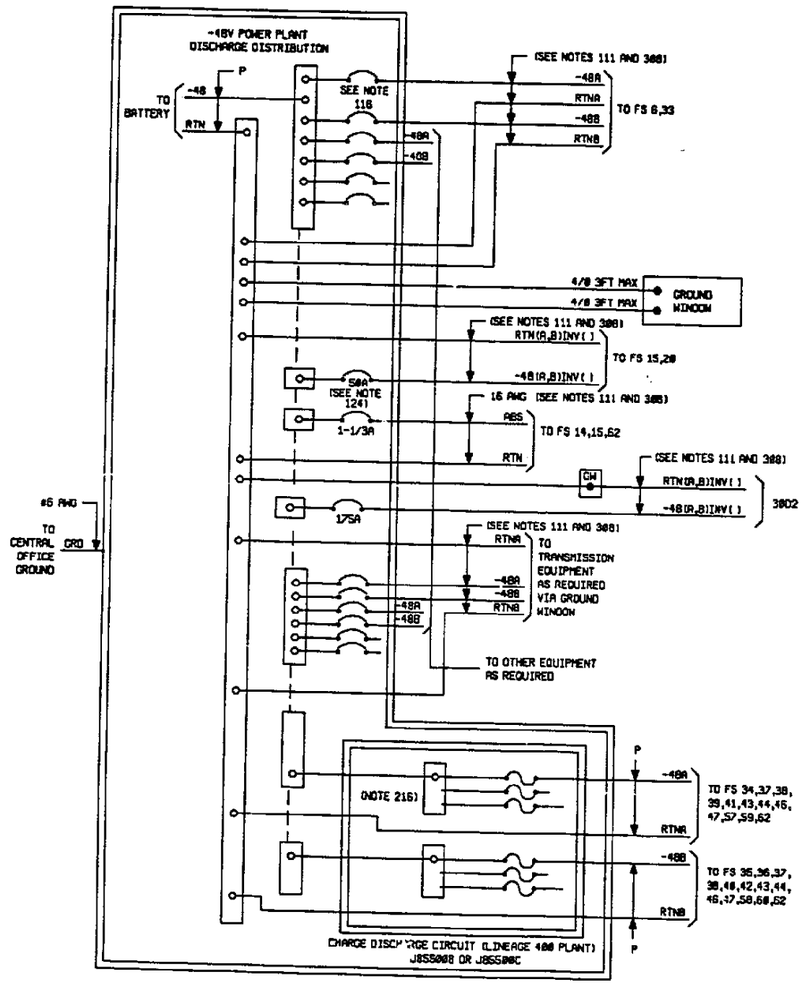
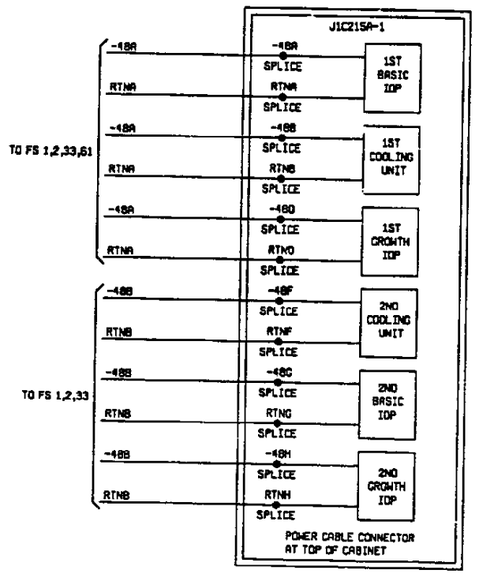
FS 69

LINEAGE POWER PLANT, 400 AMP
(SEE NOTES 216 & 217)



FS 70

PERIPHERAL INTERFACE CABINET
6 FT CABINET



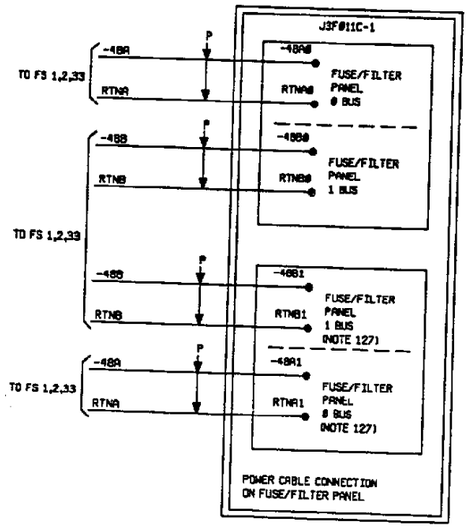
DC POWER DISTRIBUTION

DWG SIZE	ISSUE
C2	14B

AT&T	SD-50005-01	SHEET 823

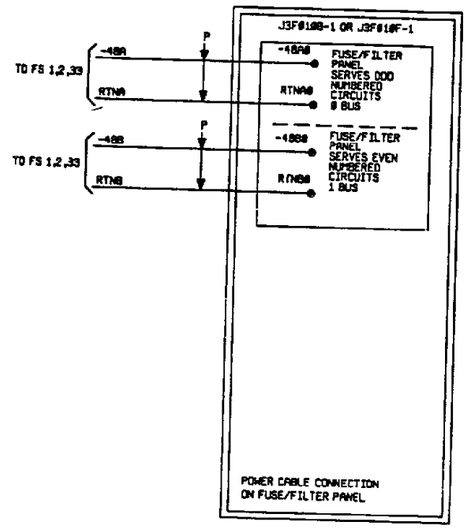
FS 71

RING NODE CABINET
6 FT CABINET
(NOTES 110,111,127,333)



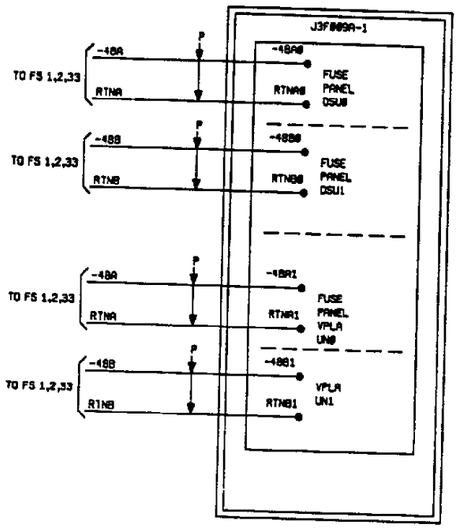
FS 72

DIGITAL FACILITY ACCESS CABINET
6 FT CABINET
(NOTES 110,111,127,333)



FS 73

ANALOG FACILITY ACCESS FRAME
7 FT FRAME



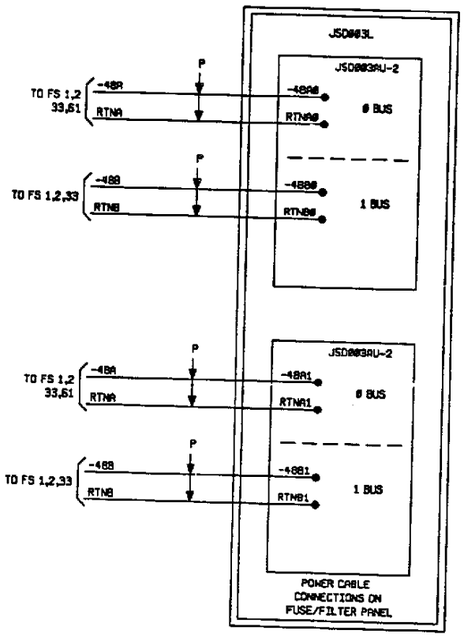
DC POWER DISTRIBUTION

DWG SIZE	ISSUE
C2	14B

AT&T	SD-5D005-01	SHEET
		B24

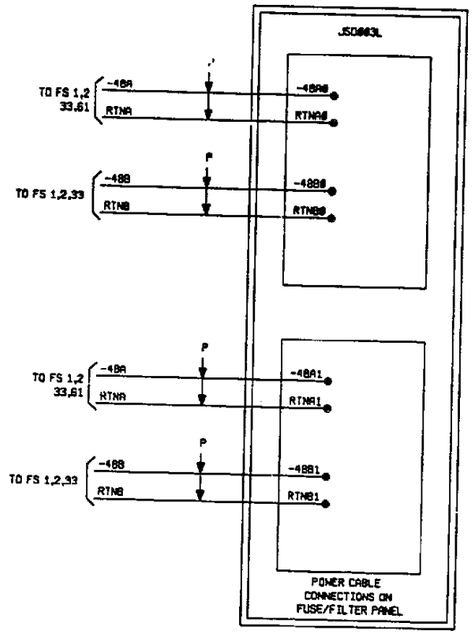
FS 74

SMC CABINET ARRANGED FOR
LU(2) AND MISC UNITS
6 FT CABINETS
(NOTES 110 & 111)



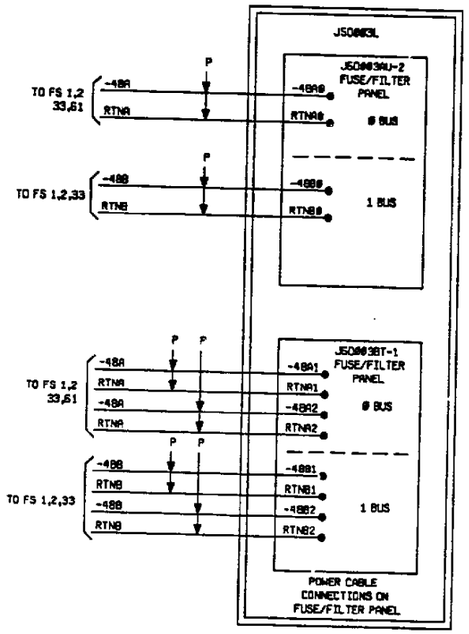
FS 75

SMC CABINET ARRANGED FOR
MCTU2(2) AND DLTU2(2)
6 FT CABINETS
(NOTES 110 & 111)



FS 76

SMC CABINET ARRANGED FOR
MCTU2 AND PSU(2) OR MISC UNITS
6 FT CABINETS
(NOTES 110 & 111)



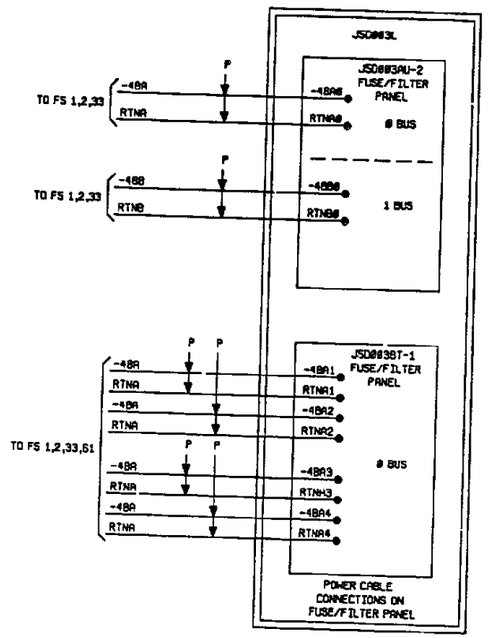
DC POWER DISTRIBUTION

DWG SIZE	ISSUE
C2	14B

AT&T	SD-5D005-01	SHEET
		825

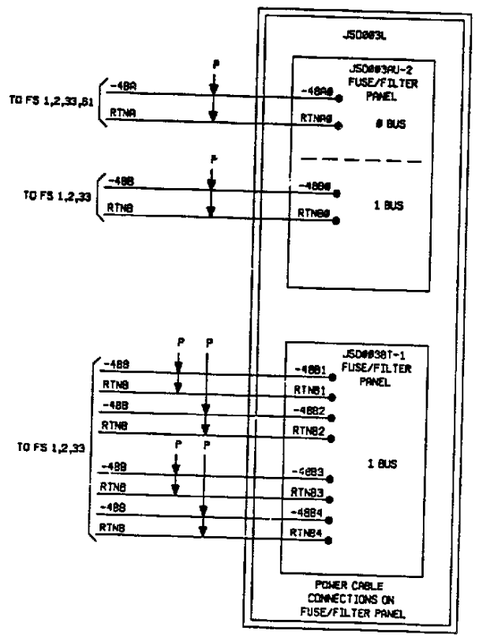
FS 77

SMC CABINET ARRANGED FOR
MCTU2 AND AN ISLU (BUS 0)
6 FT CABINETS
(NOTES 110 & 111)



FS 78

SMC CABINET ARRANGED FOR
MCTU2 AND AN ISLU (BUS 1)
6 FT CABINETS
(NOTES 110 & 111)



DC POWER DISTRIBUTION

DWG SIZE	ISSUE
C2	14B

AT&T	SD-5D005-01	SHEET
		826

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FS 79

PROTECTED AC INVERTER
(SEE SHEET NOTES 1-9)

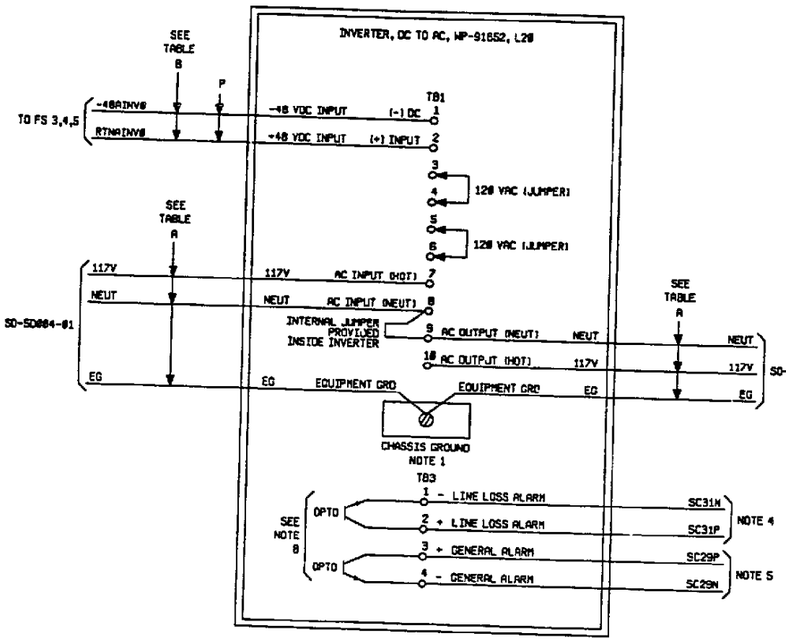


TABLE A

AC INPUT		
TERM CAP	RECM WIRE SIZE	RECM CKT BREAKER
22-8 GA	12 GA	20 AMP
AC OUTPUT		
TERM CAP	RECM WIRE SIZE	RECM CKT BREAKER
22-8 GA	12 GA	NONE

TABLE B

DC INPUT					
TERM CAP	LUG REQD	LOOP LENGTH FEET	RECM WIRE SIZE	RECM CKT BREAKER SEE NOTE 9	INVERTER INPUT CKT BREAKER
18-4 GA	NONE SEE NOTE 2	52	8 GA	1 P 50 A	1 P 30 A
		82	6 GA		
		131	4 GA		
		200	2 GA SEE NOTE 3		

NOTES:

1. "CHASSIS GROUND" TERMINAL WILL BE USED AS FRAME GROUND (EG) FOR AC OUTPUT CIRCUIT. THE NEUTRAL LEAD (NEUT) MUST NOT BE CONNECTED TO THIS TERMINAL.
2. THE SCREW-TYPE CONNECTIONS FURNISHED ON T.B. 1 ARE ACCEPTABLE FOR THIS APPLICATION IN LIEU OF STUDS AND COMPRESSION LUGS.
3. FOR LOOP LENGTHS GREATER THAN 131 FEET, USE HEAVIER GAUGE KS-5482-01 WIRE FWD T & B "C" TAP COMPRESSION LUGS (OR EQUIV); LARGEST WIRE GAUGE FOR D.C. INPUT ON T.B. 1 IS #4 AWG.
4. THE "LINE LOSS ALARM" (AN OPTO-ISOLATOR CIRCUIT, NOT A RELAY CONTACT CLOSURE) IS CONNECTED AT THE OFFICE ALARM UNIT TO AN OUTPUT OF THE TN867 (USED AS A TIE POINT) AND THEN CONNECTED TO THE 3B20 IOP'S, PC01, TO PROVIDE THE SIGNAL INPUT TO SC31, INV XFER TO INDICATE INVERTER TRANSFER, DUE TO ITS LOSS OF COMMERCIAL POWER.
5. THE "GENERAL ALARM" (AN OPTO-ISOLATOR CIRCUIT, NOT A RELAY CONTACT CLOSURE) IS CONNECTED AT THE OFFICE ALARM UNIT TO AN OUTPUT OF THE TN867 (USED AS A TIE POINT) AND THEN CONNECTED TO THE 3B20 IOP'S, PC01, TO PROVIDE THE SIGNAL INPUT TO SC29, INV FAIL, TO INDICATE A GENERAL FAILURE OF THE INVERTER.
6. SEE SD-5D884-01 FOR SCHEMATIC INFORMATION ON PROTECTED AC.
7. SEE SD-5D886-01 FOR OFFICE ALARM INFORMATION AND SD-5D887-01 FOR ASSIGNMENT RULE INFORMATION ON SCAN POINTS.
8. OPTO-ISOLATORS ARE USED IN LIEU OF CONTACT CLOSURES TO PROVIDE ALARM INDICATIONS. THESE ARE RATED 60 VOLTS MINIMUM, AND 16 MA MAXIMUM. POLARITY IS IMPORTANT.
9. CIRCUIT BREAKER IS LOCATED AT THE POWER PLANT, NOT IN THE POWER DISTRIBUTION FRAME (PCFD).

DC POWER DISTRIBUTION

DMC SIZE	ISSUE
C2	14B

AT&T	SD-5D00S-01	SHEET
		B22

FS 80

JOB CONDITION ARRANGEMENT TO ELIMINATE REQUIREMENT FOR 117V POWER FROM POWER SERVICE CABINET 19" OR 23" RELAY PACK

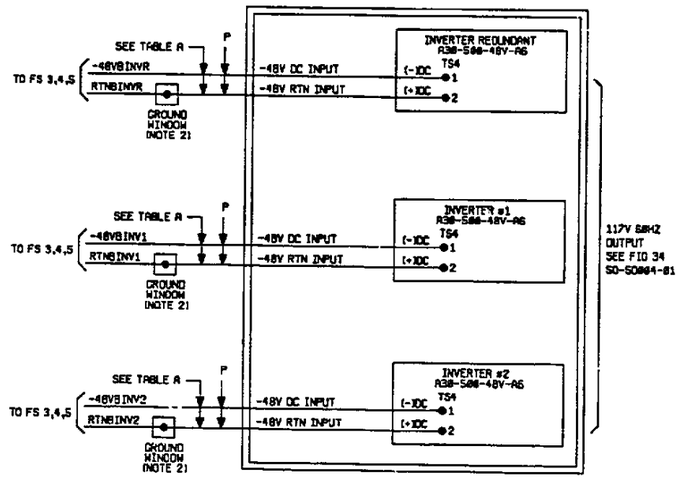


TABLE A

DC INPUT WIRING (1/2 VOLT LOOP DROP) 20 AMPERE CIRCUIT BREAKER IN POWER PLANT

ONE-WAY DISTANCE TO BATTERY PLANT		-48V WIRE SIZE (13.8 AMPS FULL LOAD)
UP TO	11 FEET	12 AWG
	17 FEET	10 AWG
	27 FEET	8 AWG
	43 FEET	6 AWG
	68 FEET	4 AWG
	109 FEET	2 AWG

NOTES:

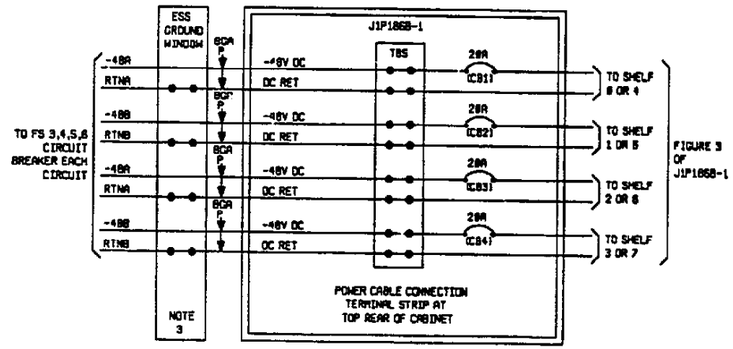
1. THESE INVERTERS MAY BE OBTAINED FROM:

   LA MARCHE MFG. INC.
   106 BRADROCK DRIVE
   DES PLAINES, IL 60018

2. IF THESE INVERTERS ARE LOCATED ON THE ISOLATED GROUND PLANE (ESS GROUND), THE D.C. INPUT RTN MUST BE BONDED TO THE ESS SINGLE POINT, GROUND (GROUND WINDOW).
3. THESE INVERTERS CANNOT BE POWERED FROM THE PCFD POWER DISTRIBUTION FRAME, BECAUSE OF HIGH INRUSH CURRENTS.
4. THESE INVERTERS HAVE NOT BEEN QUALIFIED IN ACCORDANCE WITH BELLCORE NEBS STANDARDS.

FS 81

DATAKIT II VCS HIGHGATE CIRCUIT
6 FT 6 INCH CABINET 30 INCH WIDE
28 INCH DEEP



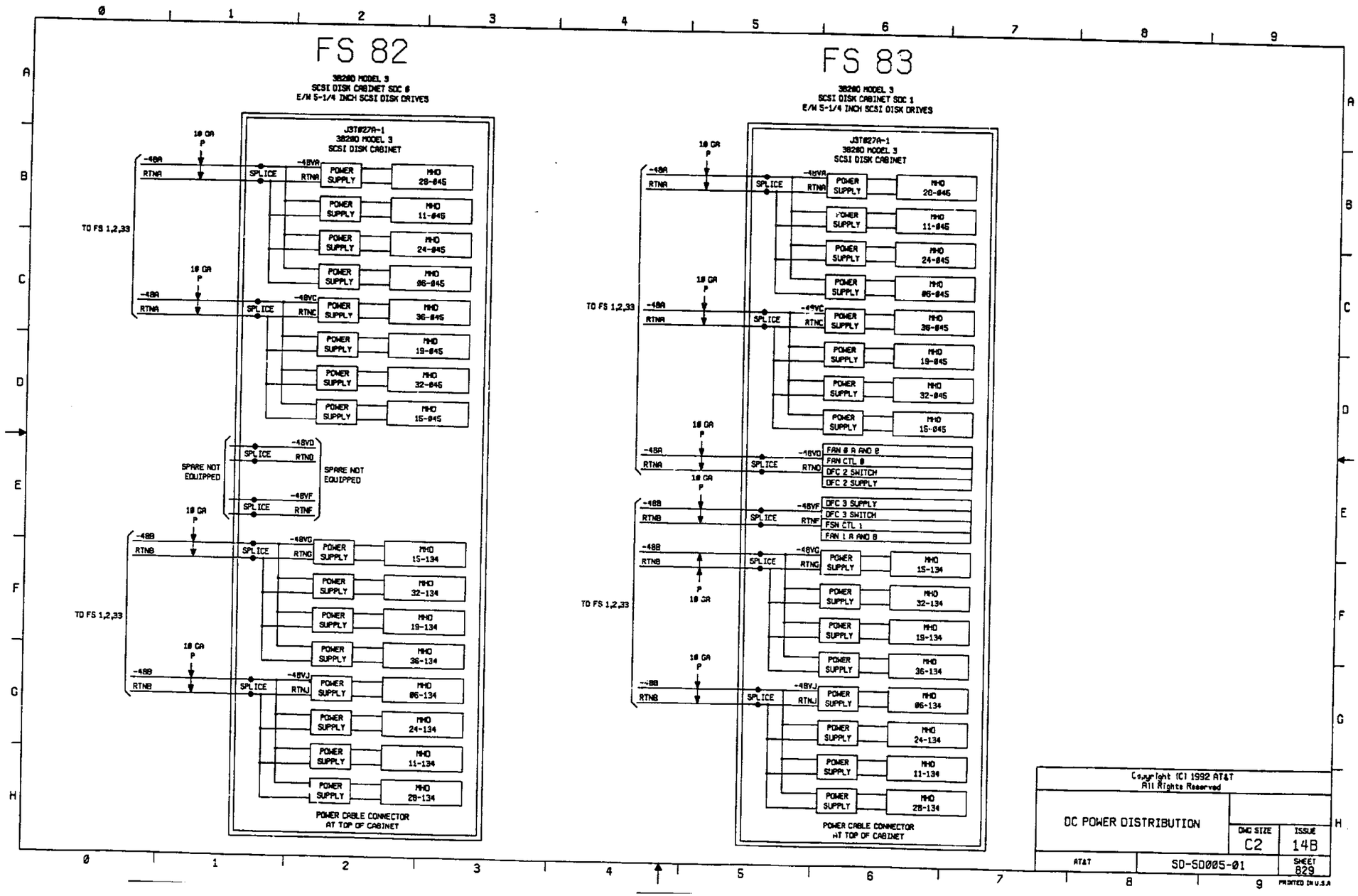
NOTES:

1. THIS HIGHGATE CABINET WILL BE LOCATED IN THE ISOLATED GROUND PLANE AREA OF THE SESS, BUT WILL BE IN ITS OWN LINE UP BECAUSE OF THE DIFFERENCE IN CABINET SIZE, CABLE CONNECTIONS WILL BE VIA AN OVERHEAD LADDER RACK.
2. THE HIGHGATE CIRCUITS ARE SPREAD ACROSS BOTH "A" AND "B" BUSES TO BALANCE THE SESS D.C. LOAD DISTRIBUTION. NOTE THAT THE HIGHGATE IS NOT A DUPLICATED CIRCUIT, AND THAT FAILURE OF EITHER THE "A" OR THE "B" BUS WILL TAKE DOWN THE ENTIRE HIGHGATE SYSTEM.
3. THE HIGHGATE MODULE MUST BE FED DIRECTLY FROM THE POWER PLANT, AND NOT FROM THE PCFD. EACH CIRCUIT PROTECTED BY A 35 AMPERE CIRCUIT BREAKER IN THAT PLANT. THE RTN LEADS MUST BE BONDED TO THE ESS SINGLE POINT GROUND (GROUND WINDOW).

DC POWER DISTRIBUTION

DMC SIZE	ISSUE
C2	14B

AT&T | SO-S0005-01 | SHEET 828



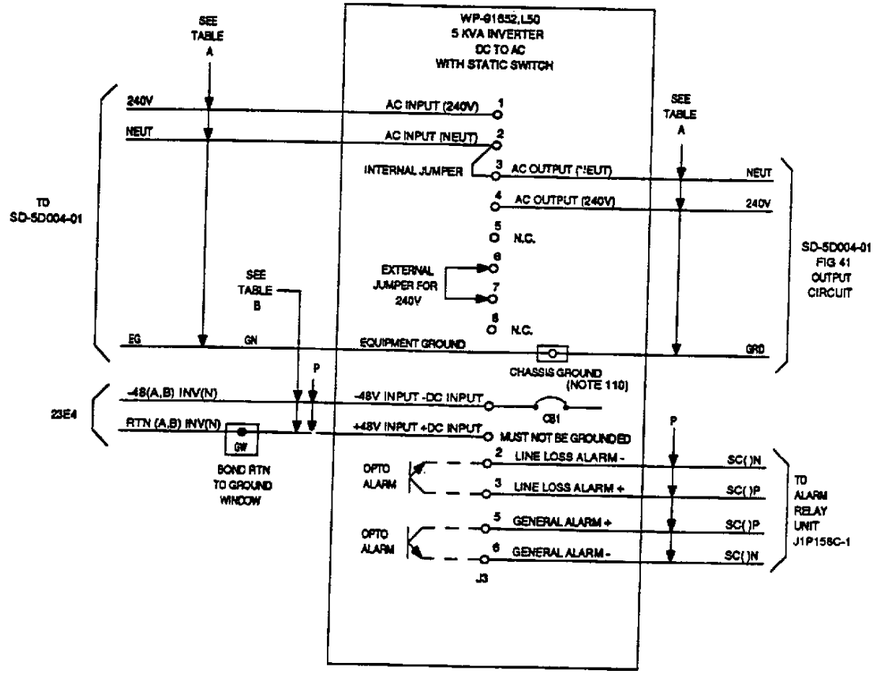
OC POWER DISTRIBUTION

DWG SIZE	ISSUE
C2	14B

AT&T	SD-SD005-01	SHEET
		829

FS 84

5 KVA AC DC/AC INVERTER
(MAY BE MOUNTED IN MISC CABINET)
(SEE SHEET NOTES)



NOTES:

1. 'CHASSIS GROUND' TERMINAL WILL BE USED AS FRAME GROUND (EG) FOR AC OUTPUT CIRCUIT. THE NEUTRAL LEAD (NEUT) MUST NOT BE CONNECTED TO THIS TERMINAL.
2. THE SCREW-TYPE CONNECTIONS FURNISHED ON THE T.B. ARE ACCEPTABLE FOR THIS APPLICATION IN LIEU OF STUDS AND COMPRESSION LUGS.
3. FOR LOOP LENGTHS GREATER THAN 150 FEET, USE HEAVIER GAUGE KS-5482-01 WIRE AND T & B 'C' TAP COMPRESSION LUGS (OR EQUIV); LARGEST WIRE GAUGE FOR D.C. INPUT ON T.B. 1 IS 250 KCMIL.
4. THE 'LINE LOSS ALARM' (AN OPTO-ISOLATOR CIRCUIT, NOT A RELAY CONTACT CLOSURE) IS CONNECTED AT THE ALARM RELAY UNIT. THIS INDICATES INVERTER TRANSFER DUE TO ITS LOSS OF COMMERCIAL POWER.
5. THE 'GENERAL ALARM' (AN OPTO-ISOLATOR CIRCUIT, NOT A RELAY CONTACT CLOSURE) IS CONNECTED AT THE ALARM RELAY UNIT. THIS INDICATES A GENERAL FAILURE OF THE INVERTER.
6. SEE SD-5D004-01 FOR SCHEMATIC INFORMATION ON ESSENTIAL AC.
7. SEE SD-5D006-01 FOR OFFICE ALARM INFORMATION AND SD-5D007-01 FOR ASSIGNMENT RULE INFORMATION ON SCAN POINTS.
8. OPTO-ISOLATORS ARE USED IN LIEU OF CONTACT CLOSURES TO PROVIDE ALARM INDICATIONS. THESE ARE RATED 80 VOLTS MIMIMUM, AND 16 MA MAXIMUM. POLARITY IS IMPORTANT.
9. CIRCUIT BREAKER IS LOCATED AT THE POWER PLANT, NOT IN THE POWER DISTRIBUTION FRAME (PCFD).

TABLE A

AC INPUT			
TERM CAP	RECM WIRE SIZE	RECM CKT BREAKER	LEAD
22-4 GA	8 GA	50 AMP	240V NEUT
	10 GA	NONE	GRD
AC OUTPUT			
TERM CAP	RECM WIRE SIZE	RECM CKT BREAKER	LEAD
18-4 GA	8 GA	20 AMP	240V NEUT
	10 GA	NONE	GRD

TABLE B

DC INPUT					
TERM CAP	LUG RSOD	LOOP LENGTH FEET	RECM WIRE SIZE	RECM CKT BREAKER SEE NOTE 9	INVERTER INPUT CKT BREAKER
6-250 KCMIL GA	NONE SEE NOTE 2	42	2 GA	1P 175A	1P 175A
		70	1/0 GA		
		150	250 KCMIL		
		> 150	SEE NOTE 3		

DC POWER DISTRIBUTION

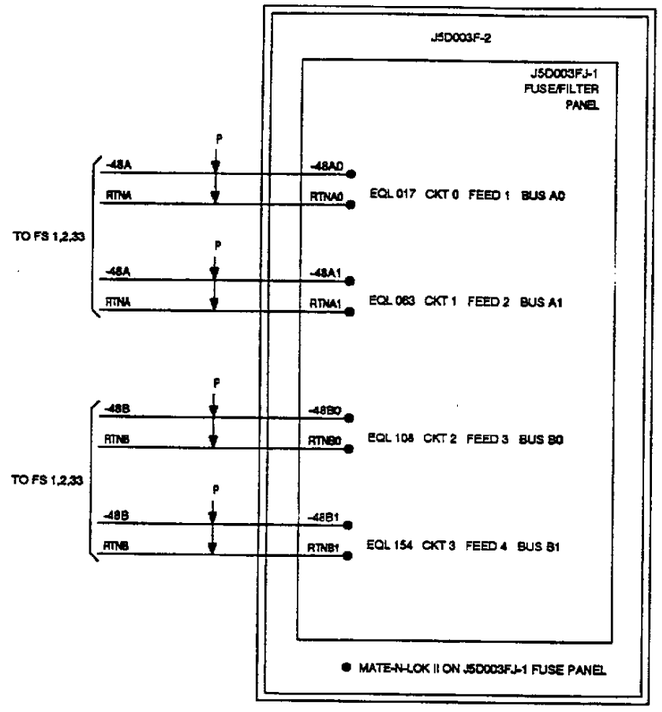
DWG SIZE C2 | ISSUE 15B

AT&T | SD-5D005-01 | SHEET B30

PRINTED IN U.S.A.

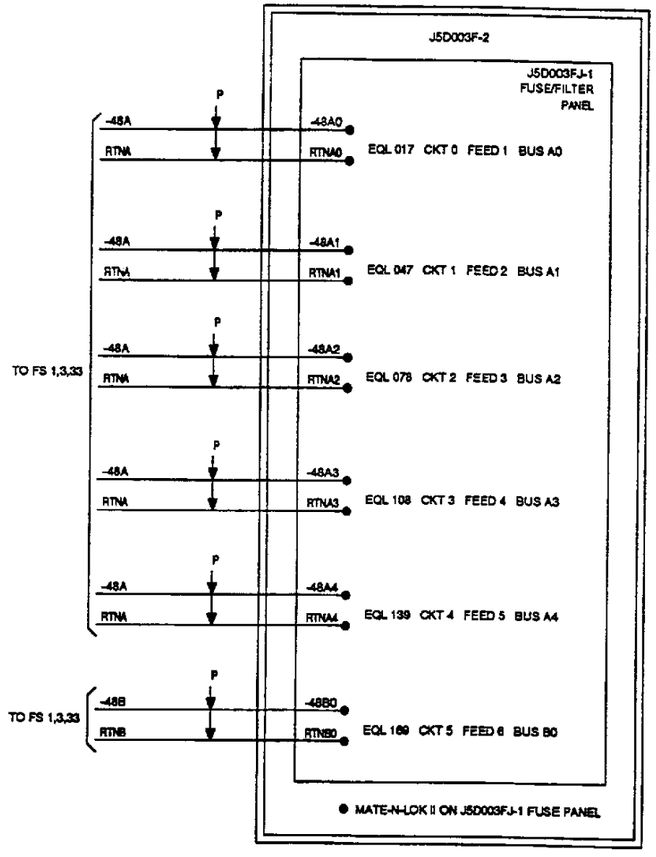
FS 85

LTP CABINET
E/W J5D003FJ-1 MODULAR FUSE FILTER UNIT,
2 'A' FEEDERS AND 2 'B' FEEDERS
(SEE NOTES 110 AND 111)



FS 86

LTP CABINET
E/W J5D003FJ-1 MODULAR FUSE FILTER UNIT,
5 'A' FEEDERS AND 1 'B' FEEDER
(SEE NOTES 110 AND 111)



DC POWER DISTRIBUTION

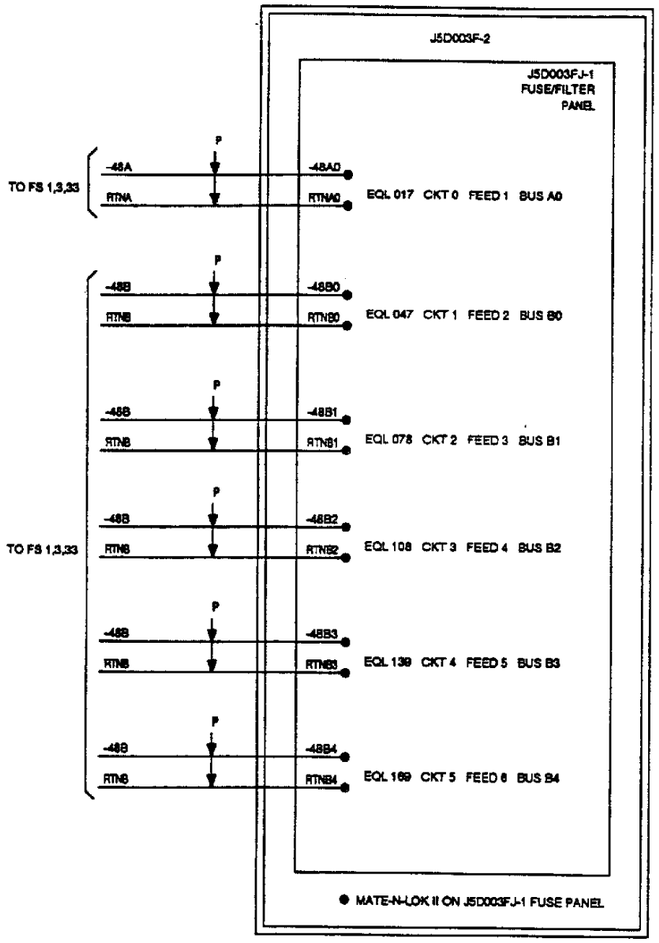
DWG SIZE	ISSUE
C2	15B

AT&T	SD-5D005-01	SHEET
		B31

PRINTED IN U.S.A.

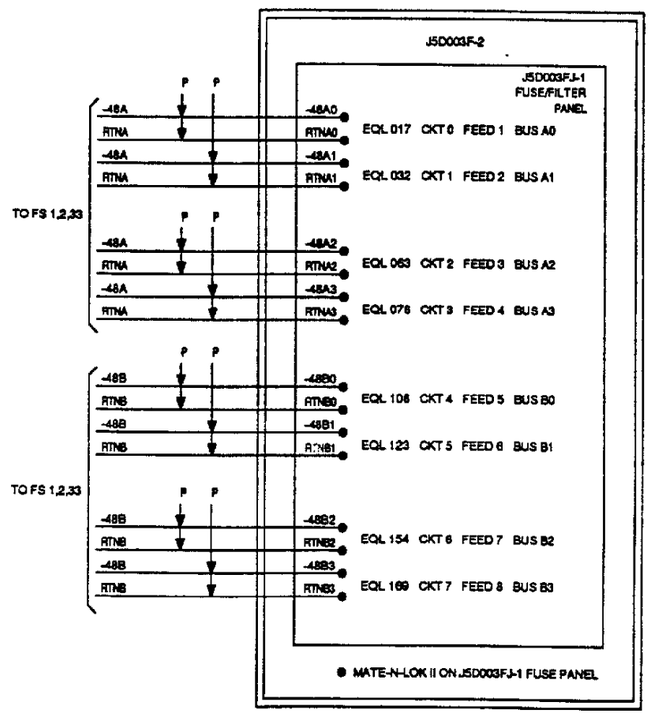
FS 87

LTP CABINET
E/W J5D003FJ-1 MODULAR FUSE PANEL UNIT,
1 'A' FEEDER AND 5 'B' FEEDERS
(SEE NOTES 110 AND 111)



FS 88

LTP CABINET
E/W J5D003FJ-1 MODULAR FUSE FILTER UNIT,
4 'A' FEEDERS AND 4 'B' FEEDERS
(SEE NOTES 110 AND 111)



DC POWER DISTRIBUTION

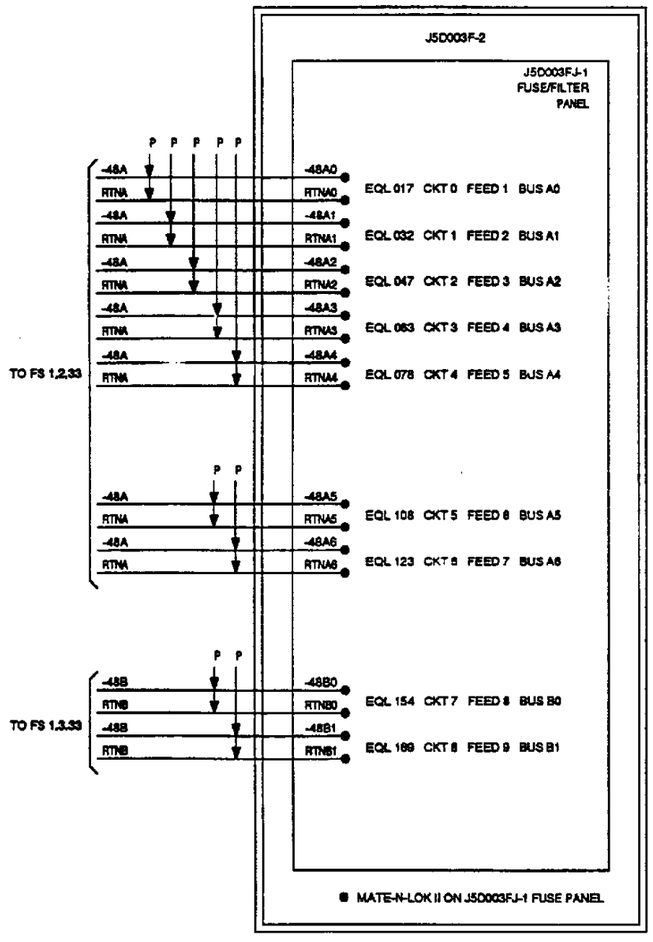
DWG SIZE	ISSUE
C2	15B

AT&T	SD-5D005-01	SHEET
		B32

PRINTED IN U.S.A.

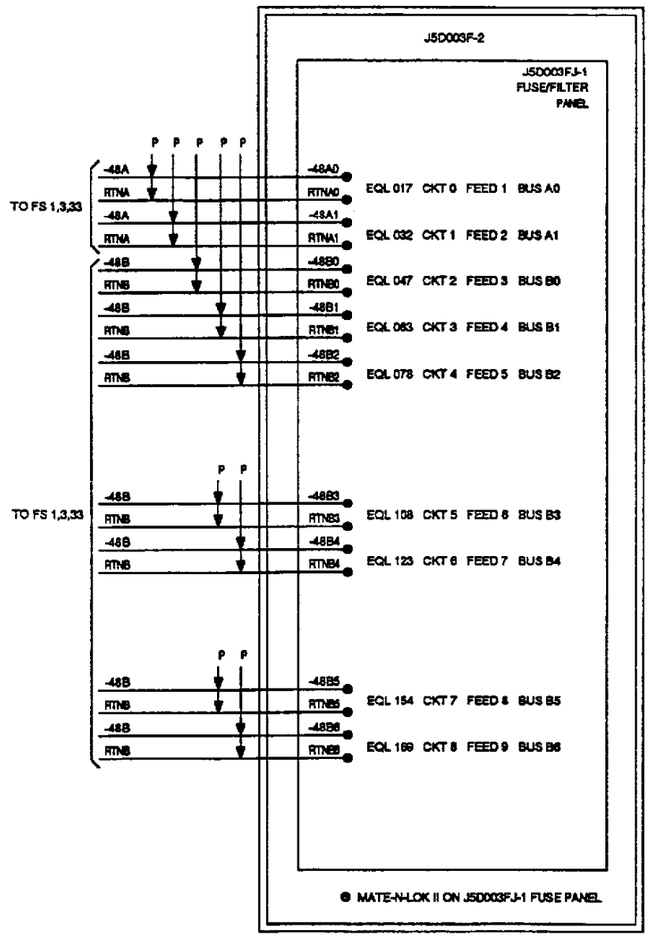
FS 89

LTP CABINET
E/W J5D003FJ-1 MODULAR FUSE FILTER UNIT,
7 'A' FEEDERS AND 2 'B' FEEDERS
(SEE NOTES 110 AND 111)



FS 90

LTP CABINET
E/W J5D003FJ-1 MODULAR FUSE FILTER UNIT,
2 'A' FEEDERS AND 7 'B' FEEDERS
(SEE NOTES 110 AND 111)



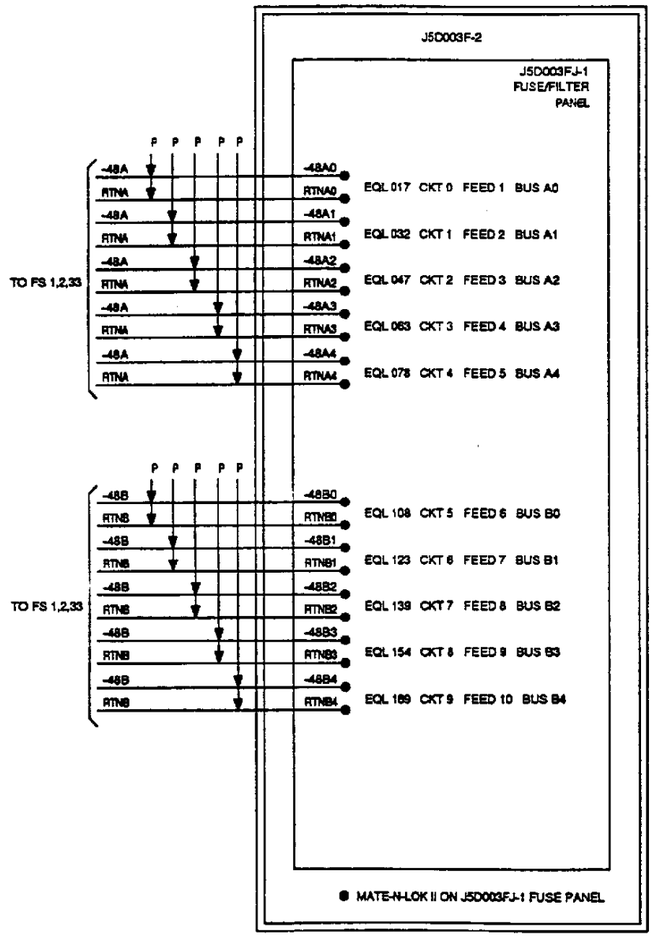
DC POWER DISTRIBUTION

DWG SIZE	ISSUE
C2	15B

AT&T	SD-5D005-01	SHEET
		B33

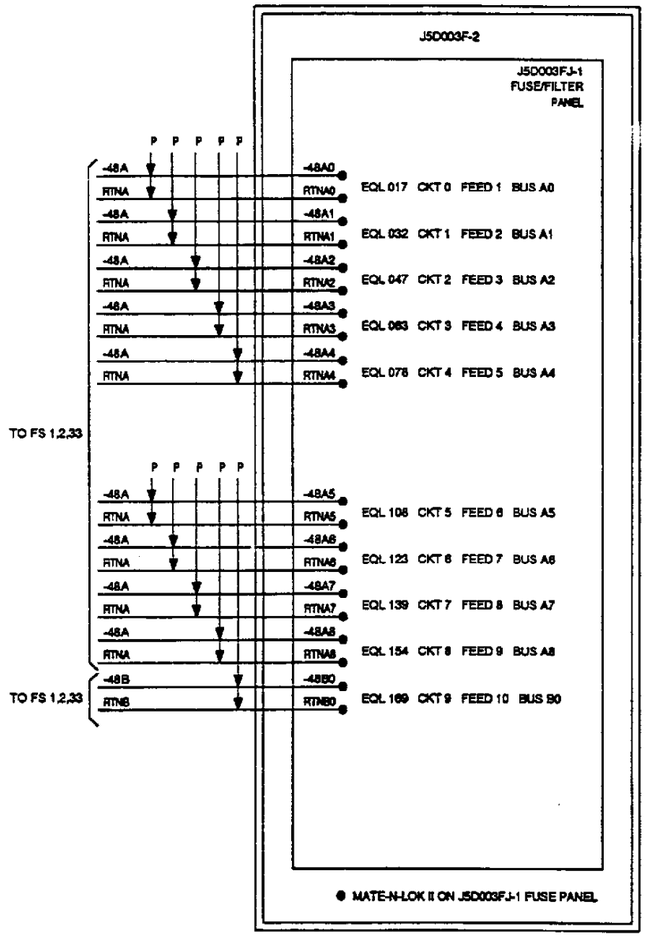
FS 91

LTP CABINET
E/W J5D003FJ-1 MODULAR FUSE FILTER UNIT,
5 'A' FEEDERS AND 5 'B' FEEDERS
(SEE NOTES 110 AND 111)



FS 92

LTP CABINET
E/W J5D003FJ-1 MODULAR FUSE FILTER UNIT,
9 'A' FEEDERS AND 1 'B' FEEDER
(SEE NOTES 110 AND 111)



DC POWER DISTRIBUTION

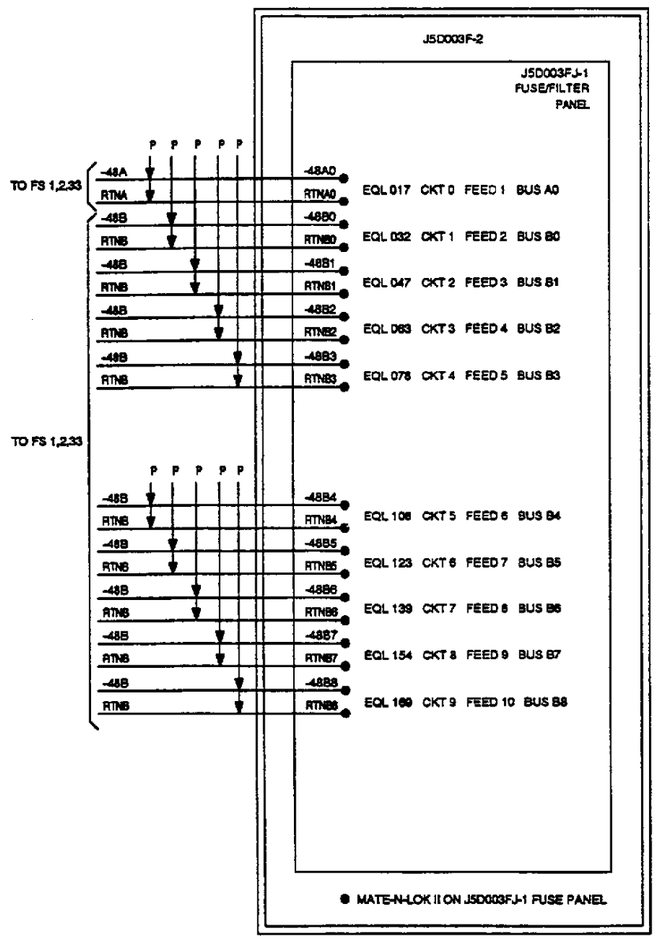
DWG SIZE	ISSUE
C2	15B

AT&T	SD-5D005-01	SHEET
		BS4

PRINTED IN U.S.A

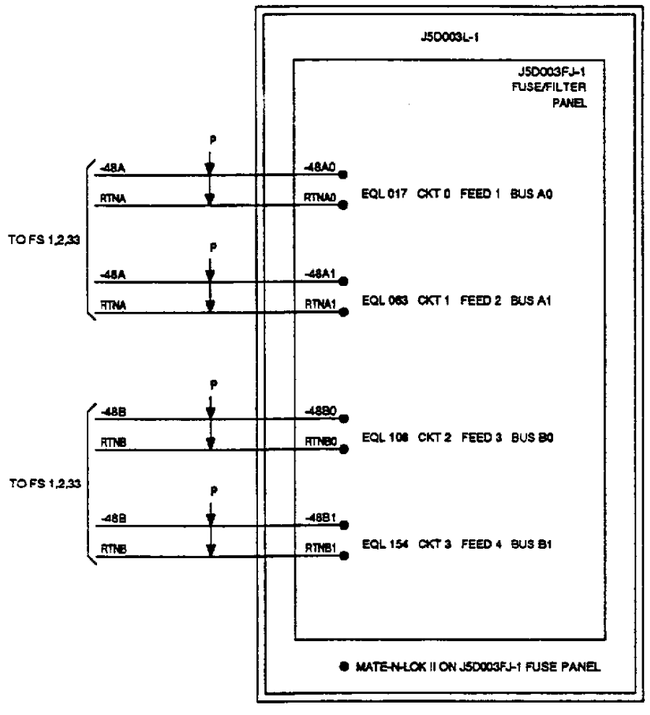
FS 93

LTº CABINET
E/W J5D003FJ-1 MODULAR FUSE FILTER UNIT,
1 'A' FEEDER AND 9 'B' FEEDERS
(SEE NOTES 110 AND 111)



FS 94

SWITCH MODULE CONTROL CABINET MODEL 2
E/W J5D003FJ-1 MODULAR FUSE FILTER UNIT,
2 'A' FEEDERS AND 2 'B' FEEDERS
(SEE NOTES 110 AND 111)



DC POWER DISTRIBUTION

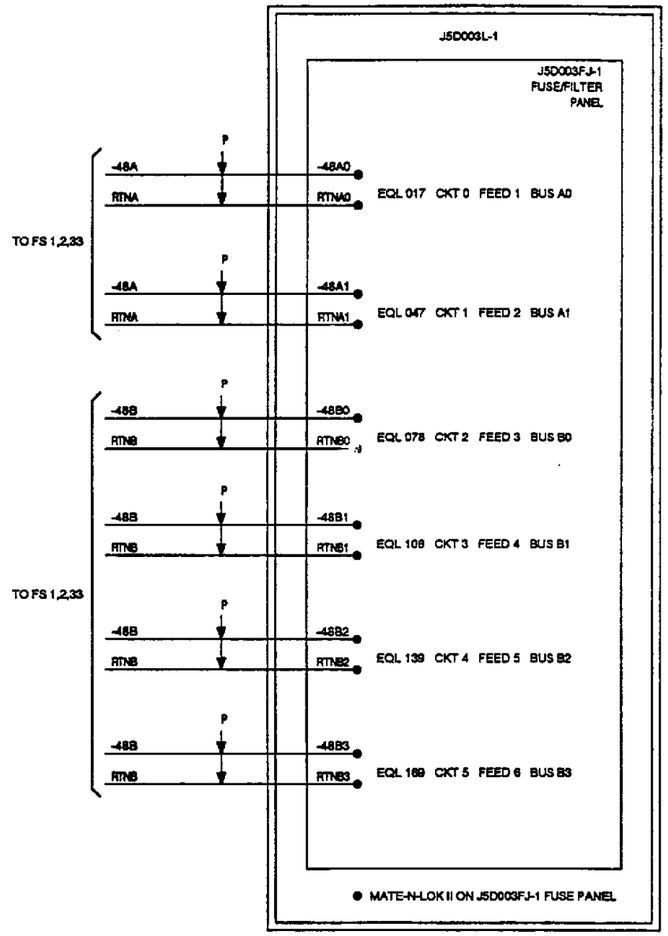
DWG SIZE	ISSUE
C2	15B

AT&T	SD-5D005-01	SHEET
		B35

PRINTED IN U.S.A

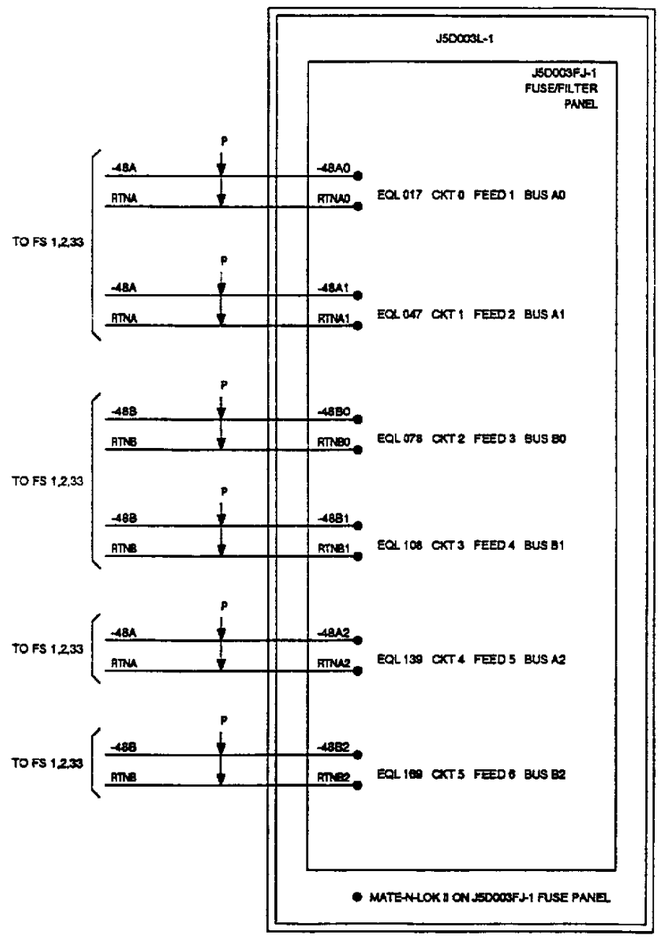
FS 95

SWITCH MODULE CONTROL CABINET MODEL 2
E/W J5D003FJ-1 MODULAR FUSE FILTER UNIT,
2 'A' FEEDERS AND 4 'B' FEEDERS
(SEE NOTES 110 AND 111)



FS 96

SWITCH MODULE CONTROL CABINET MODEL 2
E/W J5D003FJ-1 MODULAR FUSE FILTER UNIT,
2 'A' FEEDERS, 2 'B' FEEDERS,
1 'A' FEEDER AND 1 'B' FEEDER
(SEE NOTES 110 AND 111)



DC POWER DISTRIBUTION

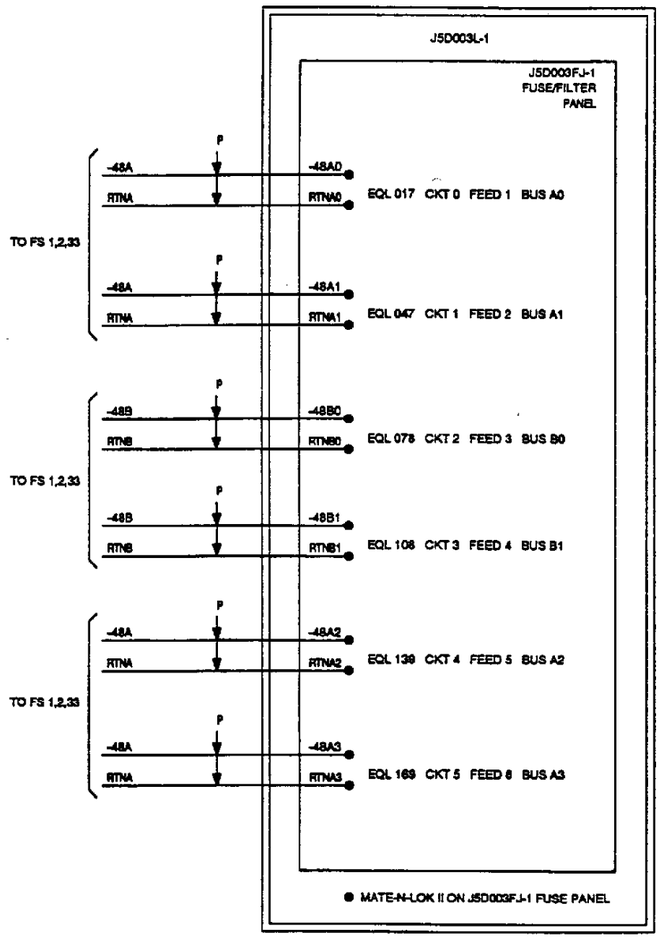
DWG SIZE	ISSUE
C2	15B

AT&T	SD-5D005-01	SHEET
		B36

PRINTED IN U.S.A.

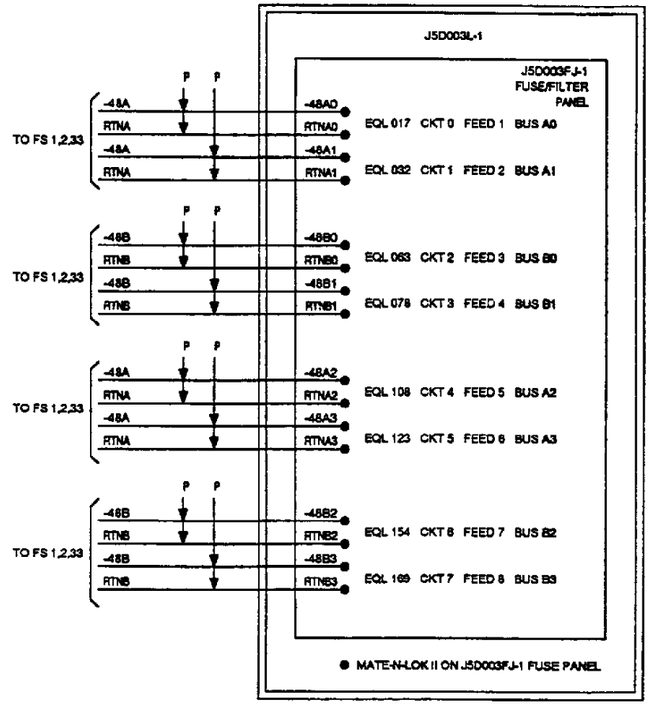
FS 97

SWITCH MODULE CONTROL CABINET MODEL 2
E/W J5D003FJ-1 MODULAR FUSE FILTER UNIT,
2 'A' FEEDERS,
2 'B' FEEDERS AND 2 'A' FEEDERS
(SEE NOTES 110 AND 111)



FS 98

SWITCH MODULE CONTROL CABINET MODEL 2
E/W J5D033FJ-1 MODULAR FUSE FILTER UNIT,
2 'A' FEEDERS, 2 'B' FEEDERS,
2 'A' FEEDERS AND 2 'B' FEEDERS
(SEE NOTES 110 AND 111)



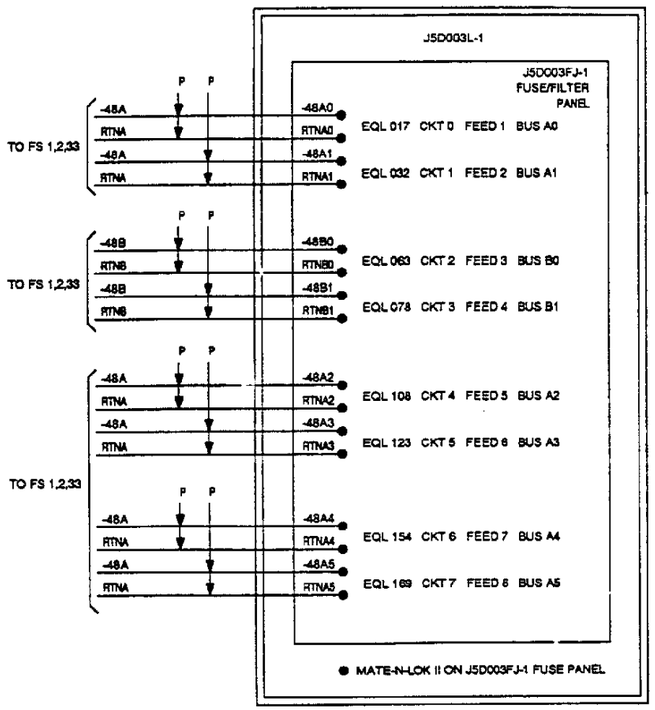
DC POWER DISTRIBUTION

DWG SIZE	ISSUE
C2	15B

AT&T	SD-5D005-01	SHEET
		B37

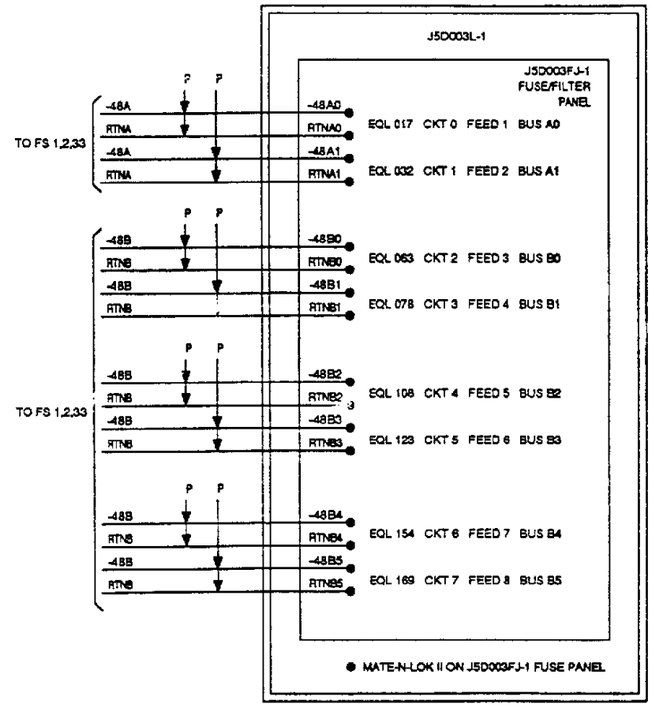
FS 99

SWITCH MODULE CONTROL CABINET MODEL 2
E/W J5D003FJ-1 MODULAR FUSE FILTER UNIT,
2 'A' FEEDERS,
2 'B' FEEDERS AND 4 'A' FEEDERS
(SEE NOTES 110 AND 111)



FS 100

SWITCH MODULE CONTROL CABINET MODEL 2
E/W J5D003FJ-1 MODULAR FUSE FILTER UNIT,
2 'A' FEEDERS AND 6 'B' FEEDERS
(SEE NOTES 110 AND 111)



DC POWER DISTRIBUTION

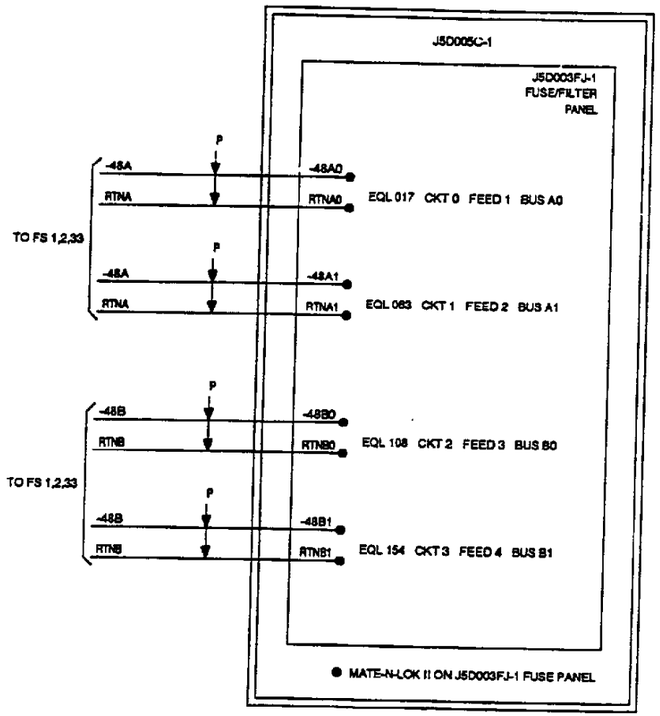
DWG SIZE	ISSUE
C2	15B

AT&T	SD-5D005-01	SHEET
		B38

PRINTED IN U.S.A

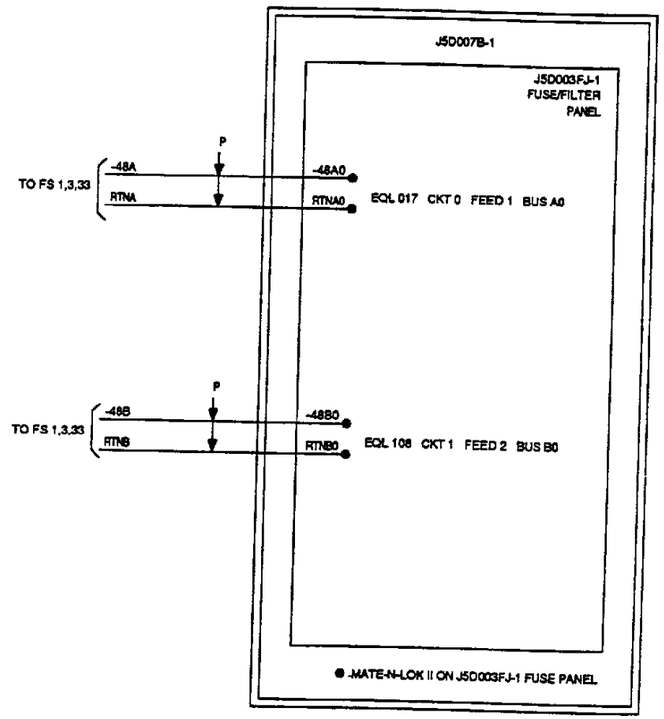
FS 101

MISCELLANEOUS CABINET
E/W J5D003FJ-1 MODULAR FUSE FILTER UNIT
AND 2 'A' FEEDERS AND 2 'B' FEEDERS
(SEE NOTES 110 AND 111)



FS 102

MODEM POOLING CABINET
E/W J5D003FJ-1 MODULAR FUSE FILTER UNIT,
1 'A' FEEDER AND 1 'B' FEEDER
(SEE NOTES 110 AND 111)



DC POWER DISTRIBUTION

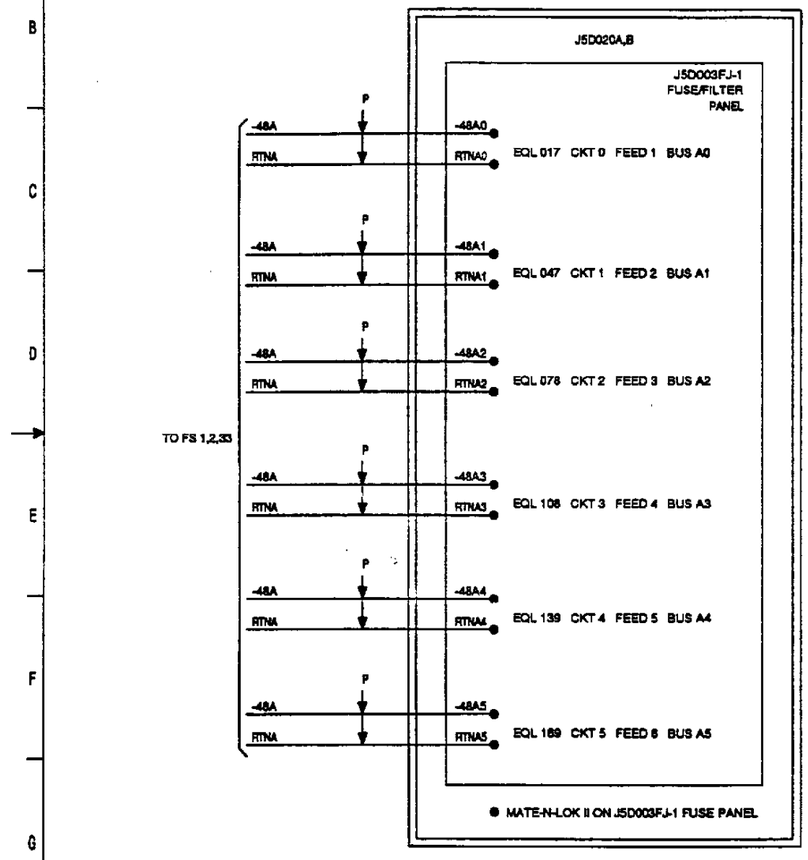
DWG SIZE	ISSUE
C2	15B

AT&T	SD-5D005-01	SHEET
		B39

PRINTED IN U.S.A

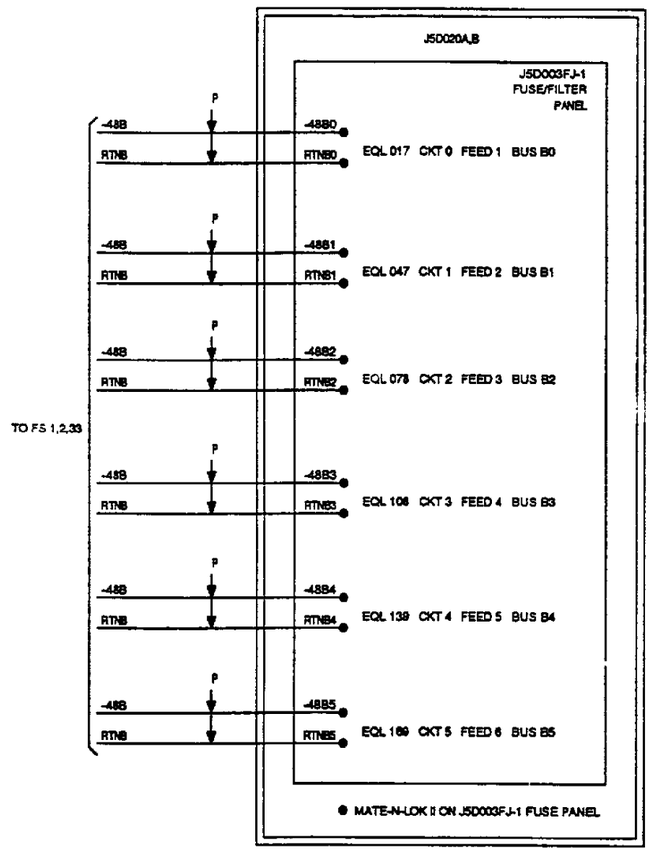
FS 103

COMMUNICATION MODULE - MODEL 2 (SINGLE FABRIC)
E/W J5D003FJ-1 MODULAR FUSE FILTER UNIT
AND 6 'A' FEEDERS
(SEE NOTES 110 AND 111)



FS 104

COMMUNICATION MODULE - MODEL 2 (SINGLE FABRIC)
E/W J5D003FJ-1 MODULAR FUSE FILTER UNIT
AND 6 'B' FEEDERS
(SEE NOTES 110 AND 111)



DC POWER DISTRIBUTION

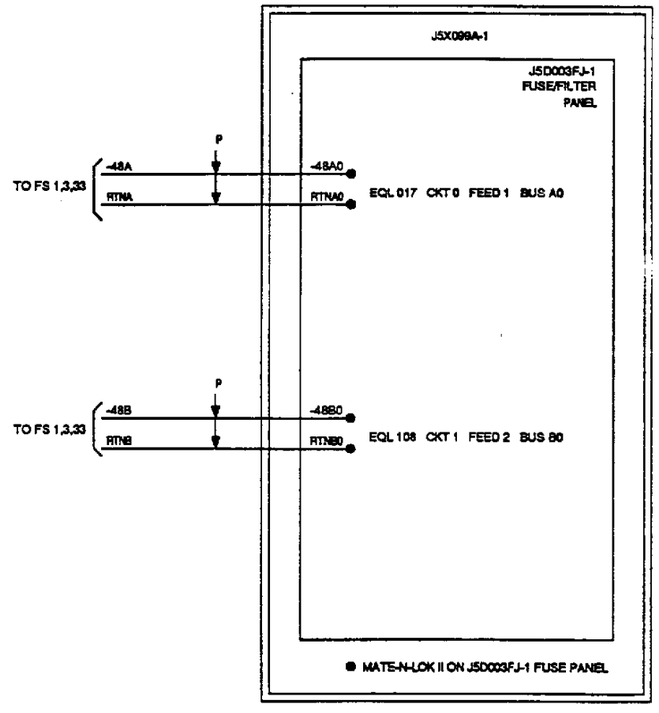
DWG SIZE	ISSUE
C2	15B

AT&T	SD-5D005-01	SHEET
		B40

PRINTED IN U.S.A.

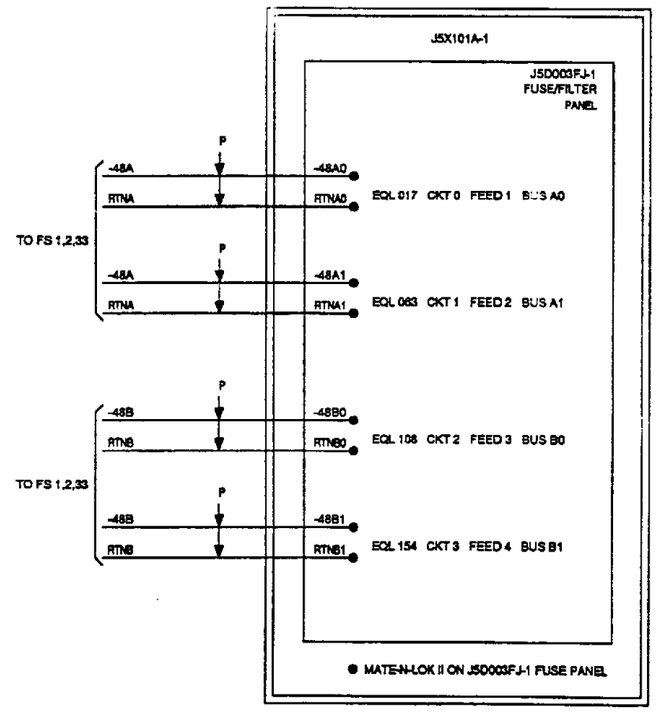
FS 105

EXPORT DATASET CABINET
E/W J5D003FJ-1 MODULAR FUSE FILTER UNIT,
1 'A' FEEDER AND 1 'B' FEEDER
(SEE NOTES 110 AND 111)



FS 106

DCSS CABINET
E/W J5D003FJ-1 MODULAR FUSE FILTER UNIT,
2 'A' FEEDERS AND 2 'B' FEEDERS
(SEE NOTES 110 AND 111)



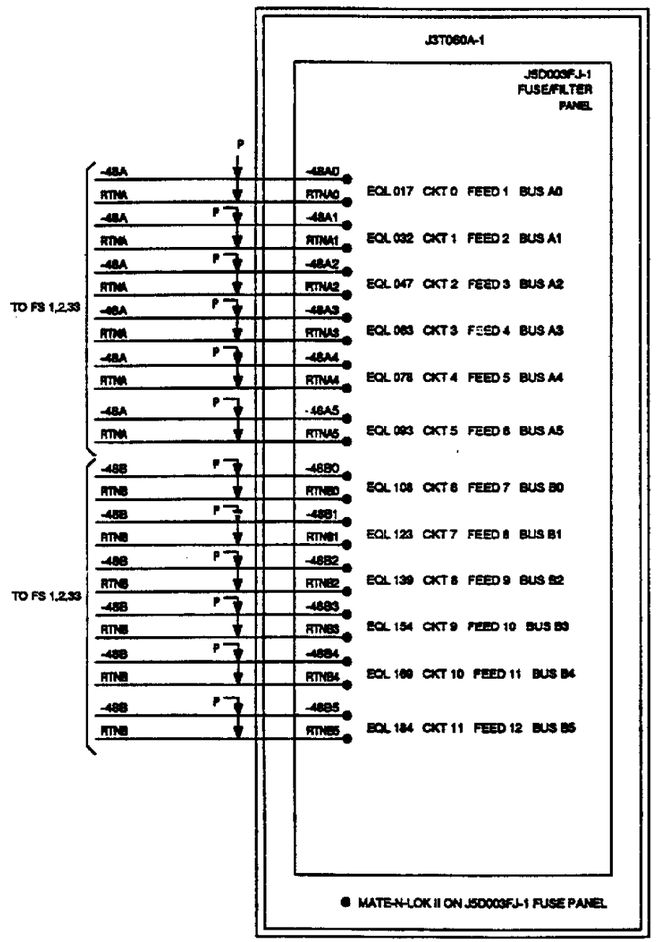
DC POWER DISTRIBUTION

DWG SIZE	ISSUE
C2	15B

AT&T	SD-5D005-01	SHEET
		B41

FS 107

3321D BASIC CABINET
E/W J5D003FJ-1 MODULAR FUSE FILTER PANEL,
6 'A' FEEDERS AND 6 'B' FEEDERS
(SEE NOTES 110 AND 111)



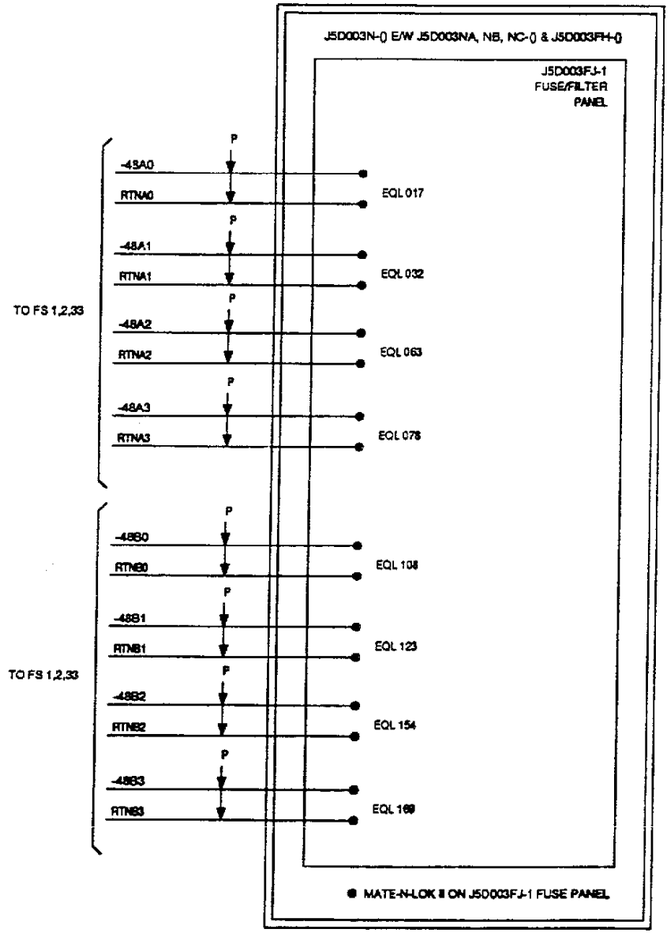
DC POWER DISTRIBUTION

DWG SIZE	ISSUE
C2	15B

AT&T	SD-5D005-01	SHEET
		B42

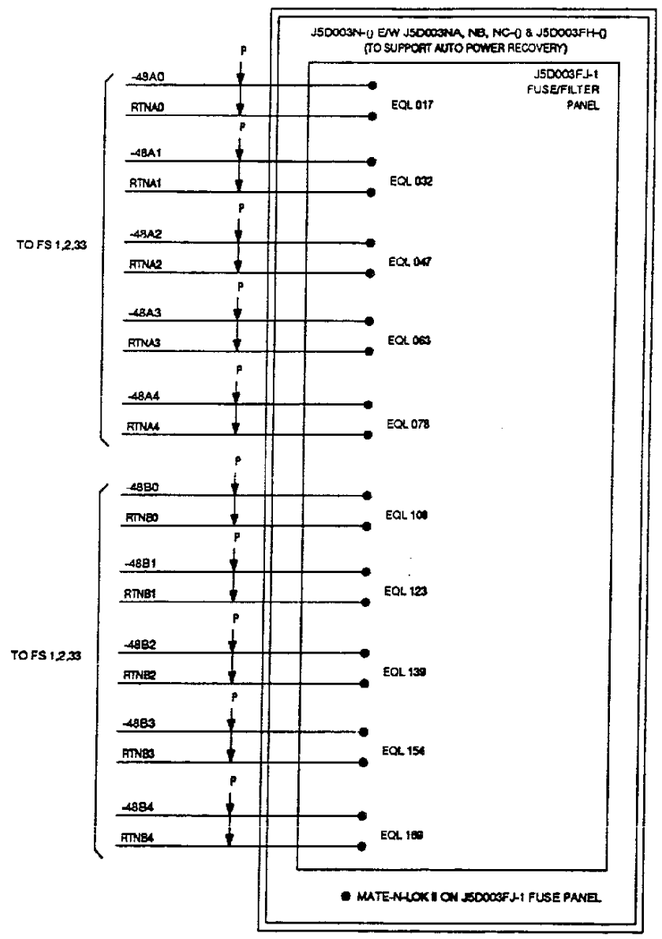
FS 108

SMC2000 CABINET (DOES NOT SUPPORT AUTO POWER RECOVERY)
E/W J5D003FJ-1 MODULAR FUSE FILTER UNIT,
4 'A' FEEDERS AND 4 'B' FEEDERS
(SEE NOTES 110 AND 111)



FS 109

SMC2000 CABINET (SUPPORTS AUTO POWER RECOVERY)
E/W J5D003FJ-1 MODULAR FUSE FILTER UNIT,
5 'A' FEEDERS, 5 'B' FEEDERS,
(SEE NOTES 110 AND 111)



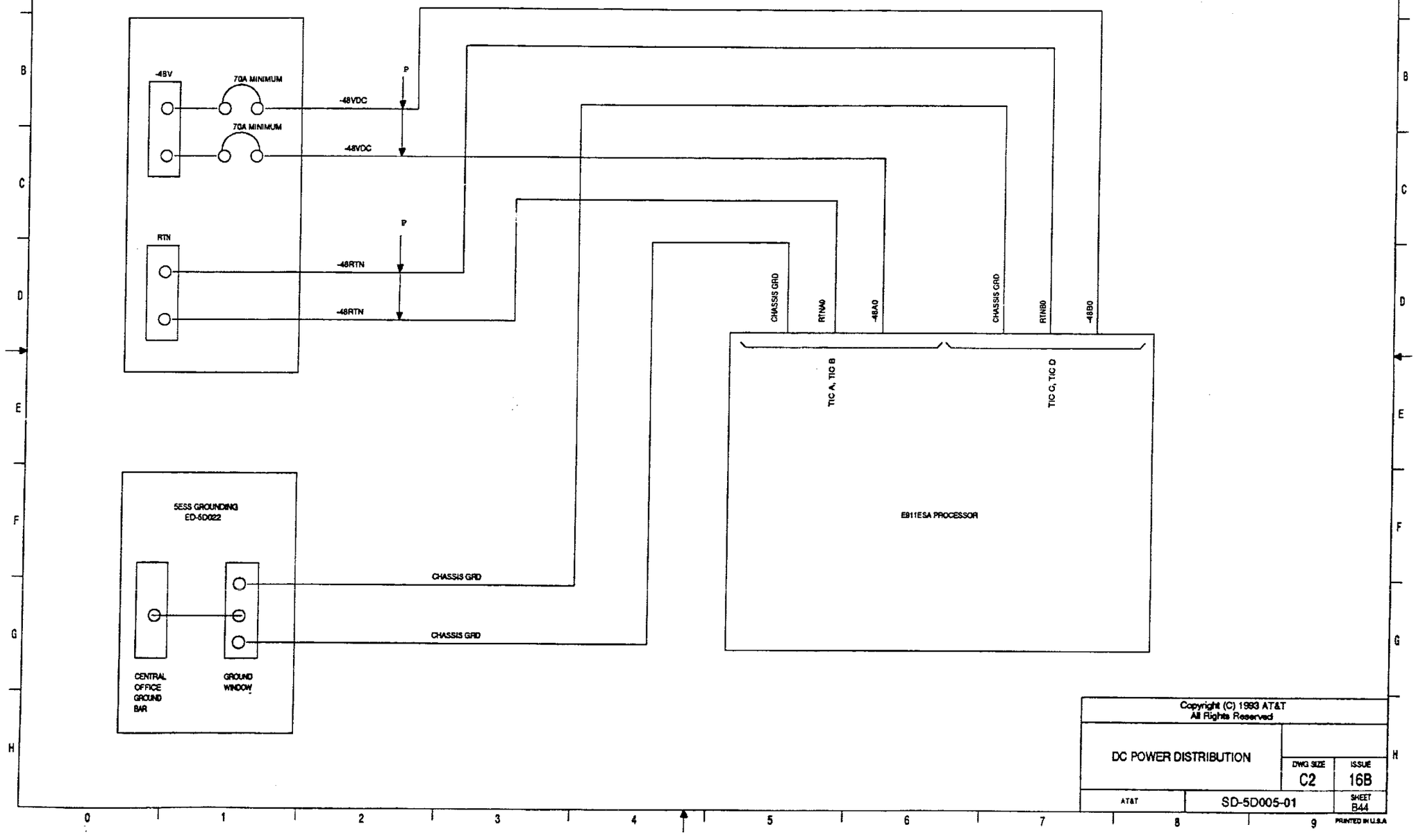
DC POWER DISTRIBUTION

DWG SIZE	ISSUE
C2	16B

AT&T	SD-5D005-01	SHEET
		B43

FS 110

ENHANCED 911 SERVICE ADJUNCT
POWER DIAGRAM



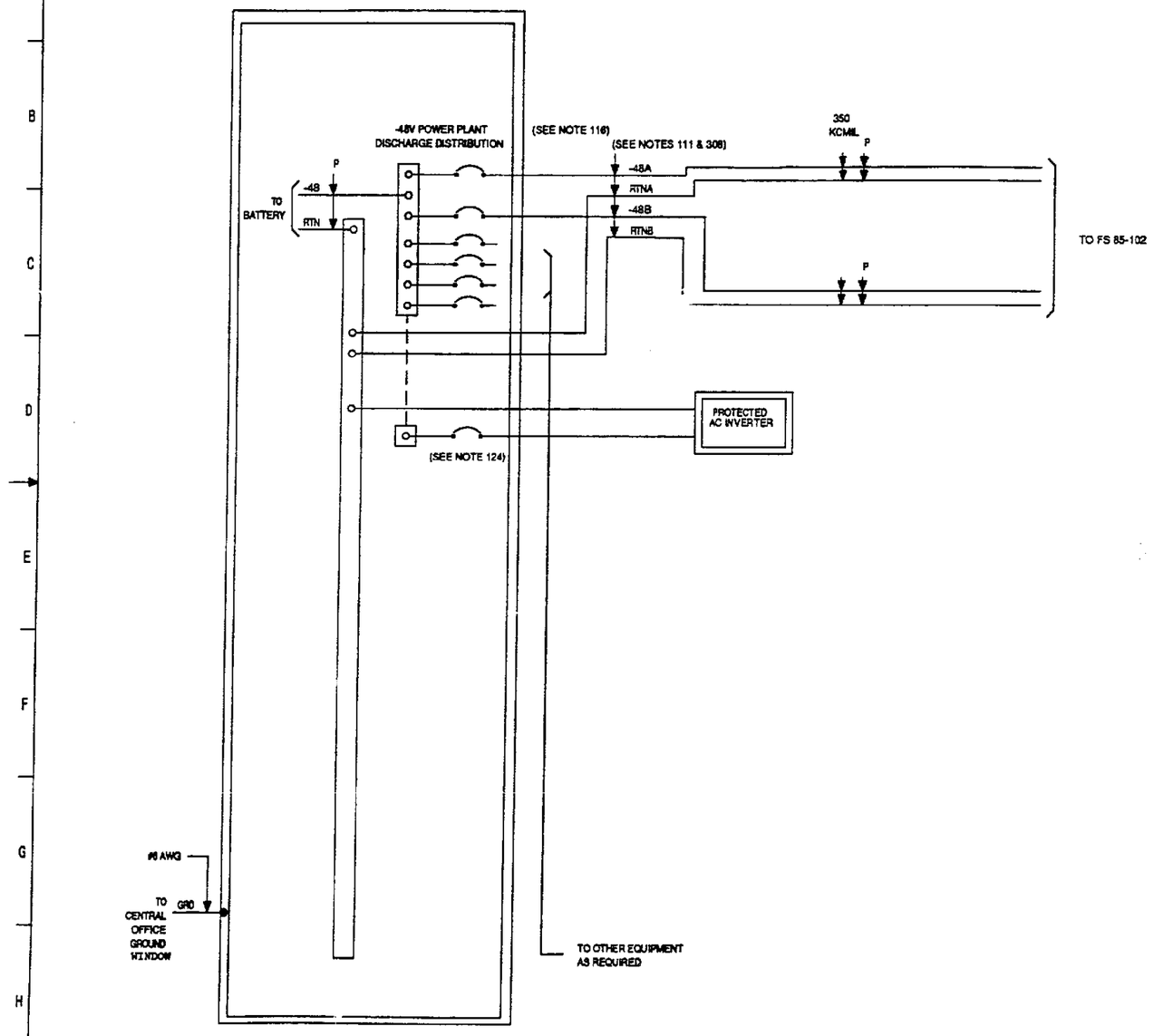
DC POWER DISTRIBUTION

DWG SIZE	ISSUE
C2	16B

AT&T	SD-5D005-01	SHEET
		B44

FS 111

ECS 2000 POWER PLANT OPTION
FOR THE AUXILIARY WORK STATION



DC POWER DISTRIBUTION

DWG SIZE	ISSUE
C2	16B

AT&T	SD-5D005-01	SHEET
		B45

PRINTED IN U.S.A.

CIRCUIT NOTES:

101.

DESIG	FUSE AMP	POTENTIAL	ONE PER
	*	-48	
BATTERY SYMBOL		VOLTAGE RANGE	
-48V		-42.75 TO -53.22V	

* SEE ASSIGNMENT TABLE (NOTE 300)

102. THIS POWER PLANT WOULD BE USED ONLY WITH THE 5ESS CONFIGURED AS A 5A REMOTE SWITCHING MODULE (RSM). AS SUCH IT WOULD NOT INCLUDE A 3B PROCESSOR AND, THEREFORE, SYSTEM DRAINS MIGHT BE LOW ENOUGH TO ALLOW USAGE OF THIS POWER PLANT. IN THIS ARRANGEMENT, THE POWER PLANT OUTPUT FEEDERS GO TO THE J863340, L8 FUSE/FILTER PANEL WHICH IS LOCATED IN THE JSD00SC-1 MISCELLANEOUS CABINET. TO PROVIDE THE POWER DISTRIBUTION FUNCTION, (SEE FS 61). THE POSITIVE DISCHARGE BUS OF THE POWER PLANT SERVES AS THE ESS GROUND WINDOW IN THIS ARRANGEMENT, AND SHOULD BE GROUNDED PER STANDARD GROUNDING METHODS. POWER FEEDERS BETWEEN THE POWER PLANT DISCHARGE FUSE PANELS AND THE J863340,L4,8 FUSE/FILTER PANELS SHALL BE SIZED TO INSURE VOLTAGE RANGE OF -48.75 TO -53.22 VOLTS AT EACH EQUIPMENT FRAME, WITH THE REQUIRED 4I8 KS-20921 WIRE THE ONE WAY DISTANCE TO THE POWER PLANT MAY BE UP TO 50 FEET. FEEDERS SHALL BE PAIRED CLOSELY, WITH THE + AND - FEEDERS IMMEDIATELY ADJACENT. EACH NEGATIVE FEEDER MUST HAVE ITS OWN DEDICATED POSITIVE RETURN.

RECOMMENDED TRANSIENT VOLTAGE LIMITS FOR 5ESS ARE:

A. TRANSIENT VOLTAGE RANGE DUE TO A STEP LOAD CHANGE: -54.9 TO -47.3 VOLTS FOR 300 MILLISECONDS.

B. MAXIMUM TRANSIENT VOLTAGE DUE TO RECTIFIER FAILURE: -53.5 VOLTS FOR 150 MILLISECONDS.

C. TRANSIENT VOLTAGE RANGE DUE TO FAULTS BEING CLEARED: -59.3 VOLTS FOR 20 MICROSECONDS TO -41.8 VOLTS FOR 200 MICROSECONDS.

SEE ALSO BSP 800-610-165

103. AC AND DC POWER DISTRIBUTION INFORMATION FOR THE 3B PROCESSOR IS PROVIDED IN SD-4C053-01. SHOULD ANY CONFLICT EXIST IN 3B INFORMATION, THE SD-4C053-01 IS CONTROLLING. SEE ALSO ED-4C184-10 FOR HARDWARE INFORMATION. ED-4C184-01, WHEN ISSUED, WILL BECOME CONTROLLING.

104. MAXIMUM DRAIN FROM 131A PLANT IS 70 AMPS TOTAL OR 35 AMPS PER BUS. THIS PLANT CANNOT BE UNITIZED.

105. MAXIMUM DRAIN FROM 133A PLANT IS 140 AMPS OR 70 AMPS PER BUS. THIS PLANT CANNOT BE UNITIZED.

106. MAXIMUM DRAIN FROM 151C POWER PLANT IS 600 AMPS TOTAL OR 300 AMPS PER BUS. THIS PLANT MUST BE SPECIFIED IF THE POWER PLANT IS TO BE UNITIZED AS A PART OF AN EQUIPMENT LINE-UP.

107. MAXIMUM DRAIN FROM 153A IS 1200 AMPS TOTAL OR 600 AMPS PER BUS. THIS PLANT CANNOT BE UNITIZED.

108. MAXIMUM DRAIN FROM 155A PLANT IS 2400 AMPS TOTAL OR 1200 AMPS PER BUS. THIS PLANT CANNOT BE UNITIZED.

109. -48 VOLT FEEDERS TO EQUIPMENT FRAMES TO BE DOUBLE CONDUCTORS AS SHOWN ON FS 6 AND UP.

110. -48 VOLT FEEDER SIZES SHOWN IN FS 6 AND UP ARE BASED ON A MAXIMUM DROP OF .75 VOLT BETWEEN THE POWER PLANT DISTRIBUTION FUSE BOARD AND THE EQUIPMENT FRAME FUSE PANEL. THESE SIZES SHOULD BE USED IN ALL CASES EXCEPT WHERE THE LOOP DISTANCE EXCEEDS THE SPECIFIED LOOP DISTANCE, IN WHICH CASE THE FEEDER SIZE MUST BE CALCULATED. IF REQUIRED, LARGER GAUGE WIRE SHOULD

CIRCUIT NOTES (CONT):

110. (CONT). BE CONNECTED ABOVE THE EQUIPMENT FRAME OR CABINET USING COMPRESSION TYPE C CONNECTORS, AND RUN TO THE P.D. FRAME. THE DRAWING CONVENTION (A,B) MEANS EITHER AN A FEEDER OR A B FEEDER. FEEDERS WITHIN AN EQUIPMENT FRAME OR CABINET ARE ALWAYS PROVIDED PER FRAME OR CABINET 1 DRAWINGS. FEEDERS FROM THE P.D. FRAME TO THE EQUIPMENT FRAMES SHOULD BE PROVIDED AS REQUIRED.

111. THE POWER FEEDERS BETWEEN THE POWER PLANT DISTRIBUTION FUSE BOARD AND EACH EQUIPMENT FRAME SHALL BE SIZED TO INSURE VOLTAGE RANGE OF 42.75 TO 52.58 VOLTS AT EACH EQUIPMENT FRAME. FEEDERS SHALL BE PAIRED.

112. FEEDER SIZE FOR +130 VOLT -130 VOLT POWER FEEDERS SHALL BE 22 AWG. (REQUIRED ONLY FOR TRANSMISSION EQUIPMENT).

113. THE MISCELLANEOUS FRAME USES A DIFFERENT FRAME FILTER (J1A863RA-1, L45) BECAUSE THE 13A ANNOUNCEMENT UNIT REQUIRES SPECIAL FILTERING. THIS UNIT SHOULD BE ASSIGNED TO A DEDICATED CIRCUIT OF THE FILTER VIA A DEDICATED FUSE PANEL CIRCUIT AND NO OTHER EQUIPMENT UNITS SHOULD USE THESE SAME DEDICATED CIRCUITS. ALSO, NOTE THAT THIS L45 FILTER IS POWERED WITH ONLY ONE "A" FEEDER AND ONE "B" FEEDER, AND THAT TWO FILTER OUTPUT CIRCUITS ARE AVAILABLE FOR EACH SUCH FEEDER.

114. THE 151B POWER PLANT HAS AN ISOLATED DISCHARGE GROUND RTN BUS, AND TYPICALLY IS USED WHEN THE POWER PLANT IS SEPARATE FROM THE 5ESS. IN THIS CONFIGURATION THE PLANT IS AT BUILDING GROUND, AND THE RTN BUS IS CONNECTED TO THE ESS SINGLE POINT GROUND ABOVE THE FIRST P.D. FRAME, PER FS 7. THE 151B PLANT MAY ALSO BE LOCATED IN THE 5ESS GROUND COMMUNITY, IN WHICH CASE THE PLANT IS AT ESS GROUND. THE RTN BUS IS CONNECTED TO THE ESS SINGLE POINT GROUND PER FS 7 IN EITHER CASE. NOTE THAT THE 151B PLANT DOES NOT HAVE A CHARGE BUS, AND THAT IT CANNOT BE UNITIZED OR MOVED IN A "HOT-SLIDE".

THE 151C POWER PLANT HAS A NON-ISOLATED (GROUNDED) DISCHARGE GROUND RTN BUS, AND TYPICALLY IS USED WHEN THE POWER PLANT IS UNITIZED WITH THE 5ESS. IN THIS CONFIGURATION ITS DISCHARGE RTN BUS FUNCTIONS AS THE ESS SINGLE POINT GROUND PER FS 7. ONO GROUND WINDOW IS REQUIRED AT THE FIRST P.D. FRAME). THE 151C PLANT FRAMEWORK IS AT ESS GROUND AND MUST BE INSULATED FROM THE FLOOR AND BUILDING STEEL. THE 151C PLANT HAS A CHARGE BUS, AND CAN BE UNITIZED OR MOVED IN A "HOT-SLIDE".

115. THE -48 VOLT RTNA MUST NOT BE GROUNDED TO MDF GROUND, USE MDF GROUND FOR MRG AS SHOWN.

116. IF THE P.D. FILTER FUSE PANEL IS EXPECTED TO GROW TO ITS ULTIMATE CAPACITY, THEN IT SHOULD BE SERVED WITH A BREAKER AND FEEDER SIZE TO SUIT ESTIMATED PANEL LOAD. HOLE SPACING IN P.D. PANELS IS 1.25 INCH. TYPICAL SIZE BREAKERS FOR A P.D. PANEL SERVING ONLY THE 3B PROCESSOR WOULD BE 100 AMPS. TYPICAL SIZE BREAKERS FOR A P.D. PANEL SERVING A SMALL 5ESS OR 4 SWITCHING MODULES WOULD BE 110 OR 125 AMPS. EACH SIDE (BUS) OF EACH P.D. PANEL SHOULD HAVE ITS OWN BREAKER, FOR RELIABILITY REASONS. DO NOT COMBINE THE SAME BUS FROM 2 OR MORE P.D. PANELS ON THE SAME BREAKER.

KS TYPE CIRCUIT BREAKERS MAY BE USED AT 100% OF THE L2 DRAINS. EARLIER BSP'S SPECIFIED 150% OF L2 DRAINS, BUT THIS NO LONGER APPLIES. WIRE GAUGE MUST BE SIZED TO THE CIRCUIT BREAKER AMPERAGE.

117. IF THE POWER PLANT IS LOCATED AT THE BUILDING GROUND, THE DISCHARGE BUS MUST BE INSULATED FROM THE POWER PLANT FRAMEWORK, IF A SEPARATE GROUND WINDOW BUS BAR IS USED. IF NO SEPARATE GROUND WINDOW BUS BAR IS USED, THEN THE DISCHARGE BUS MAY BE GROUNDED, AND USED AS THE ESS GROUND WINDOW. THIS IS APPROPRIATE FOR LOAD SHARING OR RSM'S. IF THE OTHER POWER PLANT FRAMEWORK IS LOCATED AT ESS GROUND, SUCH AS DEL G LOCATED IN THE ESS LINE-UP AND INSULATED FROM THE FLOOR, THEN THE DISCHARGE BUS MAY BE GROUPED TO THE POWER PLANT FRAMEWORK.

CIRCUIT NOTES (CONT):

118. ALL FEEDERS FOR ANY GIVEN FRAME OR CABINET ARE TO BE FROM THE SAME BUS (EITHER ALL A BUS OR ALL B BUS) FOR THOSE FRAMES OR CABINETS WHICH SPECIFY THIS NOTE.

119. PROVIDED ONLY FOR FRAME OR CABINET B (B BUS ONLY).

120. PROVIDED ONLY FOR FRAME OR CABINET 1 (B BUS ONLY).

121. FOR ANY 5ESS LINE-UP THAT CONTAINS A LINE UNIT, ALL 5ESS "A" BUSES ("0" BUSES) MUST BE MULTED TOGETHER IN THAT SWITCHING MODULE (SM), AND ALL 5ESS "B" BUSES ("1" BUSES) MUST BE MULTED TOGETHER IN THAT (SM). USE NO. 18 AWG OR/BK WIRE PER KS-19385,L1. 3B PROCESSOR FRAMES DO NOT RECEIVE THESE MULTS.

122. THE AUDIBLE ALARM CIRCUIT PACK (TN137) RECEIVES ITS -48 VOLT POWER DIRECTLY FROM THE ALARM BATTERY SUPPLY (ABS) OR EQUIVALENT FROM THE POWER PLANT. THIS SPECIAL FEEDER DOES NOT GO VIA THE POWER DISTRIBUTION FRAME.

123. THE OFFICE ALARM CIRCUIT RECEIVES ITS -48V POWER DIRECTLY FROM THE ALARM BATTERY SUPPLY (ABS) FUSE IN THE POWER PLANT. THIS IS A SPECIAL RUN THAT DOES NOT GO VIA THE POWER DISTRIBUTION FRAME OR VIA THE FRAME OR CABINET FUSE PANEL, THE ABS FUSE TYPICALLY IS A 1-1/3 A 70A FUSE PROVIDED IN THE POWER PLANT. THIS IS THE CORRECT SIZE FOR 5ESS.

124. THIS MUST BE A 5A AMPERE CIRCUIT BREAKER. A 5A AMPERE FUSE IS UNACCEPTABLE SINCE IT MAY OPERATE WITH THE INVERTER START-UP CURRENT. ASSIGNMENT OF A FUSE IN THE POWER DISTRIBUTION CABINET IS UNACCEPTABLE.

125. THERE ARE VARIOUS CONFIGURATIONS IN BRINGING -48 RTN FEEDER LEADS INTO 5ESS POWER DISTRIBUTION CABINETS, DEPENDING UPON OFFICE SIZE, NUMBER OF POWER DISTRIBUTION CABINETS, DISTANCE TO THE POWER PLANT, LOCATION OF THE GROUND WINDOW, OFFICE LAYOUT, AND POSSIBLE LOAD-SHARING WITH OTHER SYSTEMS. USE OF JUNCTION BARS (SPLICE PLATES) IN 5ESS FOR -48 RTN'S IS NOT A REQUIREMENT. FOR SMALL OFFICES CLOSE TO THE POWER PLANT, WITH THE POWER PLANT DISCHARGE BUS BAR USED AS THE GROUND WINDOW, THERE IS NO NEED FOR -48 RTN SPLICE PLATES. THESE FEEDER RTN'S MAY BE RUN DIRECTLY FROM THE POWER PLANT INTO P.D. 8, WITHOUT NEED OF SPLICE PLATES. FOR OFFICES WITH THE GROUND WINDOW LOCATED AT P.D. 8, SPLICE PLATES WILL BE REQUIRED TO CREATE THE GROUND WINDOW. FOR INSTALLATIONS WHERE THE POWER PLANT IS SOME DISTANCE AWAY, SPLICE PLATES WILL BE REQUIRED TO MAKE PROVISION FOR EITHER LARGER CONDUCTORS OR FOR MULTIPLE CONDUCTORS, TO MEET VOLTAGE DROP CONSTRAINTS. SOME POWER DESIGNERS PREFER TO COMBINE ALL THE -48 RTN'S COMING TO A P.D. CABINET INTO A FEW LARGE CONDUCTORS TERMINATED ON A SPLICE PLATE AT THE P.D. THIS IS PERMISSIBLE AS LONG AS THE -48V AND RTN'S ARE PAIRED AS WELL AS POSSIBLE ON THE RACKING LEADING TO THE P.D.

IF SPLICE PLATES ARE PROVIDED AT TWO OR MORE P.D. CABINETS FOR ANY REASON, THEN THESE SPLICE PLATES SHOULD BE BONDED TOGETHER PER FSB. IF THE LOWER NUMBER P.D.'S DO NOT HAVE SPLICE PLATES, THEY DO NOT NEED TO BE INCLUDED IN THIS BONDING ARRANGEMENT. ANY SUCCEEDING P.D.'S WHICH DO HAVE SPLICE PLATES SHOULD BE BONDED TOGETHER. DO NOT ADD SPLICE PLATES MERELY TO BE ABLE TO BOND TOGETHER ALL P.D.'S.

THE PURPOSE OF THIS BONDING IS TO PROVIDE A RELATIVELY LOW EQUALIZED IMPEDANCE PATH FOR THE LIGHTNING CURRENTS PLACED IN THE RTN'S BY THE LINE UNITS. IN LARGER OFFICES WITH MORE THAN ONE P.D., THE ADDED DISTANCES AND MAGNITUDES OF LIGHTNING CURRENTS MAKE THIS BONDING IMPORTANT FOR STABLE SYSTEM OPERATION. SMALLER OFFICES HAVING P.D.'S WITHOUT SPLICE PLATES WILL FUNCTION PROPERLY WITHOUT SUCH BONDING.

CIRCUIT NOTES (CONT):

128. ONLY ONE SINGLE POINT GROUND (GROUND WINDOW) MAY BE USED WITH ANY GIVEN POWER PLANT. A 5ESS (R) SWITCH MAY SHARE A GROUND WINDOW WITH ANOTHER ESS OR ELECTROMECHANICAL SYSTEM AS LONG AS THE POWER IS SHARED VIA THE GROUND WINDOW. THE GROUND REFERENCE TO THE CENTRAL OFFICE PRINCIPAL GROUND OF TO THE CENTRAL OFFICE GROUND BUS MUST BE THE MINIMUM SIZE REQUIRED BY ANY OF THE SYSTEMS SHARING THE POWER. NOTE THAT AT&T PRACTICE 982-001-195 PARA 8.24 REQUIRES A MAXIMUM VOLTAGE DROP OF 0.5V. THIS IS APPLICABLE TO THOSE OTHER SYSTEMS THAT PUT CURRENT INTO THIS LEAD.

127. AS VIEWED FROM THE FRONT OF THE CABINET, POWER BUSES FROM LEFT TO RIGHT HAVE BEEN:

A,A B,B OR A,B B,A

FOR THE JSD003AU-2 FUSE/FILTER PANEL. BECAUSE OF THE UNUSUAL NATURE OF THE RING NODE CABINETS, THE FOLLOWING SPECIAL BUS SEQUENCE IS REQUIRED. THIS NON-STANDARD ARRANGEMENT IS APPROVED ONLY FOR THE RING NODE CABINET:

A,B B,A

FAILURE TO FOLLOW THIS ARRANGEMENT COULD RESULT IN A RING NODE FAILURE UPON LOSS OF EITHER THE A OR B BUS.

NOTE THAT TO ACCOMMODATE THIS UNUSUAL ARRANGEMENT OF BUSES, A NEW STAMPING LETTERED LIST MUST BE ADDED TO JSD003AU-2, FOR THE RIGHT HAND UNIT, AS VIEWED FORM THE FRONT, AS FOLLOWS:

B BUS	A BUS
-48VB1 , -48VB3	

NEW LETTERED LIST JSD003AU-2,L( ) (TO BE ASSIGNED BY AT&T NS).

DC POWER DISTRIBUTION

DWG SIZE: C2 | ISSUE: 14B

AT&T | SD-50005-01 | SHEET: 01

EQUIPMENT NOTES:

201. FOR DC POWER DISTRIBUTION SEE ED-50873-10.

202. SYSTEM GROUNDING METHODS AND DETAILS ARE SHOWN ON ED-50822-01, ED-50823-01, ED-50824-01, AND BSP 962-001-100 AND SHOULD BE FOLLOWED EXCEPT WHERE SUPERSEDED HEREIN.

203. AT LEAST TWO FEEDER PAIRS, ONE FROM AN "A" BUS AND ONE FORM A "B" BUS OF THE -48 VOLT POWER DISTRIBUTION FRAME SHALL BE RUN TO EACH FRAME, EXCEPT FOR THOSE FRAMES WHICH RECEIVE POWER FROM ONLY ONE BUS (EITHER A OR B) (SEE FS 7,8,9, AND 10). FOR THESE FRAMES, AT LEAST TWO FEEDER PAIRS SHOULD BE RUN FROM THE SAME "A" OR "B" BUS OF THE POWER DISTRIBUTION FRAME.

204. STAMP ALL FRAMES WITH LEAD DESIGNATIONS ADJACENT TO 2-WAY CONNECTORS AT TOP OF THE FRAME.

205. JUNCTION BAR SPLICE PLATES FOR THE ESS SINGLE POINT GROUND, RETURNS AND POSITIVE SPLICE PLATES SHOULD BE PER H-512-137. SELECT SIZE AND QUANTITY TO SUIT OFFICE CURRENT DRAINS AND CABLE RACK WIDTH. THESE BARS MAY NOT BE REQUIRED WHEN THE POWER PLANT IS CLOSE TO THE P.D. FRAME, OR WHEN A UNITIZED 151C POWER PLANT IS USED, SEE NOTE 114. GENERALLY, ENCLOSED BUS BARS ARE NOT SUITABLE BECAUSE OF THE VARIOUS SIZES AND QUANTITIES OF WIRES TO BE TERMINATED AT THE SINGLE POINT GROUND.

207. IF ADDITIONAL LUG POSITIONS ARE REQUIRED, USE ADDITIONAL JUNCTION BARS FROM H-512-137, TO SUIT. TO MINIMIZE CABLE CONGESTION, THE JUNCTION BARS MAY BE STAGGERED DOWN THE LENGTH OF THE RACK BY 3 FEET AND BONDED TOGETHER WITH A 750 KCMIL CABLE. JUNCTION BARS MAY ALSO BE STACKED VERTICALLY AND BONDED TOGETHER AS REQUIRED.

208. THE ABS -48V POWER RUN IS TERMINATED DIRECTLY ON THE TERMINALS OF THE ABS FUSE HOLDER IN THE POWER PLANT. THE OTHER END OF THE RUN, AT THE OFFICE ALARM UNIT IS TERMINATED ON A TERMINAL STRIP IN THE MISCELLANEOUS FRAME OR CABINET, ON THE OFFICE ALARM UNIT. ABS CONNECTIONS FOR THE PROTECTED AC INVERTER AND FOR THE AUDIBLE ALARM UNIT ARE MADE AT THIS SAME TERMINAL STRIP.

THE RUN IS LOCATED IN SHIELD 4 (POWER) OF THE LINE-UP CABLE RACK, AND DROPS DOWN IN THE MISCELLANEOUS FRAME OR CABINET TO THE OFFICE ALARM UNIT (NO SPLICE OR CONNECTOR AT THE TOP OF THE FRAME OR CABINET).

209. PROVIDED PER ED-50838-11, C38.

210. PROVIDED PER ED-50188-11, C58 OR C71.

211. INVERTERS AND TAPE DRIVES ARE NUMBERED AS FOLLOWS:

	T/DC(0)	T/DC(1)
FIRST	00	04
SECOND	01	05
THIRD	02	06
FOURTH	03	07

EQUIPMENT NOTES (CONT):

212. INVERTERS AND TAPE DRIVES ARE NUMBERED AS FOLLOWS:

	T/DC(2) IF ONLY T/DC(0) IS USED CONFIGURATION SHOWN IN FS 53	T/DC(2) IF T/DC(0) & T/DC(1) ARE USED
FIRST	04	08
SECOND	05	09
THIRD	06	10
FOURTH	07	11
FIFTH	08	12
SIXTH	09	13
SEVENTH	10	14
EIGHTH	11	15

213. FOR RSM APPLICATIONS THE J863340, L8 FILTER/FUSE PANEL AND THE J863340, L4 CONTROL PANEL OF THIS POWER DISTRIBUTION CABINET SHALL BE MOUNTED IN THE JSD00SC-1 MISCELLANEOUS CABINET.

214. TERMINALS 05 AND 55 ARE NOT USED INSIDE THE FUSE/FILTER PANEL AND ARE USED AS TIE POINTS FOR THE -48VABS AND ABSRTN LEADS. THESE TERMINALS SHOULD EACH BE EQUIPPED WITH A TAB ADAPTER SO THAT TWO RECEPTACLES MAY BE CONNECTED TO EACH TIE POINT TAB.

215. POWER DISTRIBUTION CABINETS MAY HAVE A BOTTOM INPUT FEED AND A BOTTOM OUTPUT FEED IF REQUIRED FOR THE PALLETIZED VERSION OF SESS.

216. FOR RSM OR ORM OR SMALL SESS® SWITCH APPLICATIONS, TO SAVE FLOOR SPACE AND CABINET COSTS, THE FOLLOWING ARRANGEMENTS MAY BE USED IN LIEU OF USING THE J863340 POWER DISTRIBUTING FRAME:

J8SS000

USE J8SS000, LIST 4 (ED-82947-30 IS AVAILABLE) USE WITH MCS, CCS OR XCS CONTROLLER REQUIRES FRONT/REAR ACCESS.

J8SS00C

USE J8SS00C, C1 & C5 USED WITH ED-83182-30 USE WITH XCS CONTROLLER FRONT ACCESS.

217. BECAUSE TERMINATION SPACE ON THE DISCHARGE BUS WITHIN A LINEAGE 400 AMP POWER PLANT IS LIMITED, IT IS PERMISSIBLE TO INSTALL A SET OF BATTERY RETURN BARS DIRECTLY ABOVE THIS PLANT, WITH A CONDUCTOR LENGTH OF 3 FEET MAX. AND BONDED TO THE DISCHARGE BUS WITH TWO 4/0 AWG CABLES. THESE BARS MAY THEN SERVE AS THE GROUND WINDOW, AND TERMINATE ALL STANDARD GROUND WINDOW TERMINATIONS. THIS SHOULD BE REFLECTED IN JOB DRAWINGS.

218. A WARNING LABEL PER FIGURE 26 OF ED-50596-70 SHOULD BE PLACED ADJACENT TO EACH CIRCUIT BREAKER OR FUSE THAT PROVIDES POWER TO A SESS (POWER PLANT ONLY).

IN CASE OF
INTERRUPTION
POWER UP PER
AT&T SOS-105-229

ED-50596-70 FIG. 26

EQUIPMENT NOTES (CONT):

219. TO AGREE WITH THE NATIONAL ELECTRIC CODE 1990, ALL WIRE SIZES PREVIOUSLY DESCRIBED AS BEING "KCM" SHALL NOW BE IDENTIFIED AS "KCMIL".

220. THE CONNECTORIZED REAR LOAD PANEL (J863340-1,LIST AM) SHOULD BE PROVIDED ONLY IF REQUESTED BY THE CUSTOMER; THIS IS AN EXTRA COST ITEM.

221. NEW NON-HALOGEN COPPER POWER WIRE PER KS23814 (CLASS B STRANDING) MAY BE USED WITH SESS ONLY IF REQUESTED BY THE CUSTOMER; THIS IS AN EXTRA COST ITEM.

DC POWER DISTRIBUTION

DMC SIZE	ISSUE
C2	14B

AT&T	SD-50005-01	SHEET 02

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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 WIRING	QUANTITY

303.

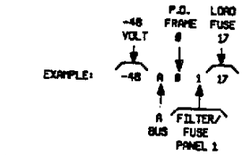
RECORD OF FIGURES, WIRING AND APPARATUS CHANGES					
CHANGED ON ISS	IF JOB RECORDS DO NOT SPECIFY	THIS OPTION HAS FURN	SEE NOTE	USE IN CIRCUIT	
				AVAIL	DR

304. LEAD DESIGNATION

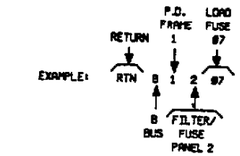
MNEMONIC	DEFINITION			
	FUNCTION	FROM	TO	BUS
-48	-48 VOLT FEEDER	POWER PLANT	BATTERY	
RTN	RETURN FOR -48 VOLT FEEDER			
-48A	-48 VOLT FEEDER	POWER PLANT	POWER DISTRIBUTION FRAME	A
RTN	RETURN FOR -48 VOLT FEEDER			
-48B	-48 VOLT FEEDER	POWER PLANT	POWER DISTRIBUTION FRAME	B
RTN	RETURN FOR -48 VOLT FEEDER			
-48A( )	-48 VOLT FRAME FEEDER	POWER DISTRIBUTION FRAME	EQUIPMENT FRAME	A
RTNA( )	RETURN FOR -48 VOLT FRAME FEEDER			
-48B( )	-48 VOLT FRAME FEEDER	POWER DISTRIBUTION FRAME	EQUIPMENT FRAME	B
RTNB( )	RETURN FOR -48 VOLT FRAME FEEDER			

305. POWER DISTRIBUTING FRAME
LOAD FEEDER LEAD DESCRIPTION

-48 (BUS A,B) (P.D. FRAME NUMBER 0-X) (FILTER/FUSE PANEL NUMBER 1-6) (LOAD FUSE NUMBER 01-28)



RTN (BUS A,B) (P.D. FRAME NUMBER 0-X) (FILTER/FUSE PANEL NUMBER 1-6) (LOAD FUSE NUMBER 01-28)



FUSE ASSIGNMENT LABEL (ON FRONT PANEL OF P.D.)

NO.	EQUIPMENT		
F1	IM ( )	FR ( )	FEEDER ( )

FUSE NUMBER — INTERFACE MODULE NUMBER — FRAME ABBREV — BAY NUMBER IF ANY — FEEDER BUS & NUMBER

EXAMPLE: F3 IM2 LTP2 A1

DC POWER DISTRIBUTION

DMD SIZE C2 | ISSUE 14B

AT&T | SD-5D005-01 | SHEET D3A

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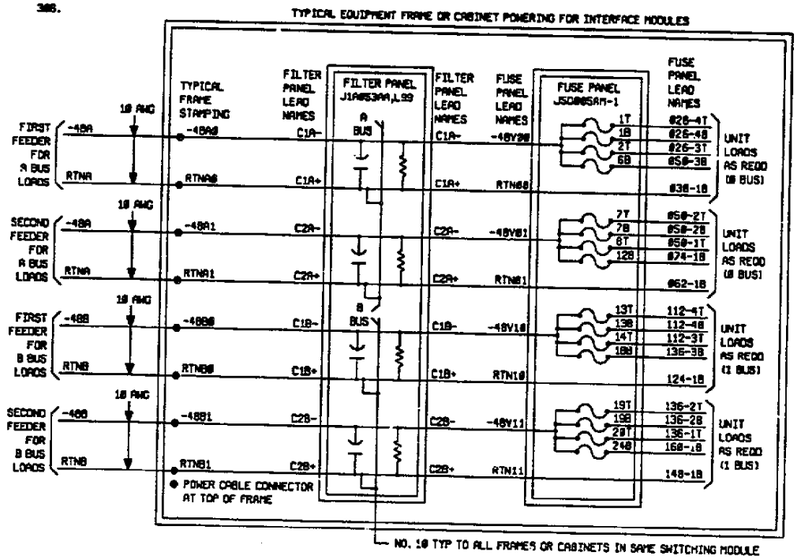
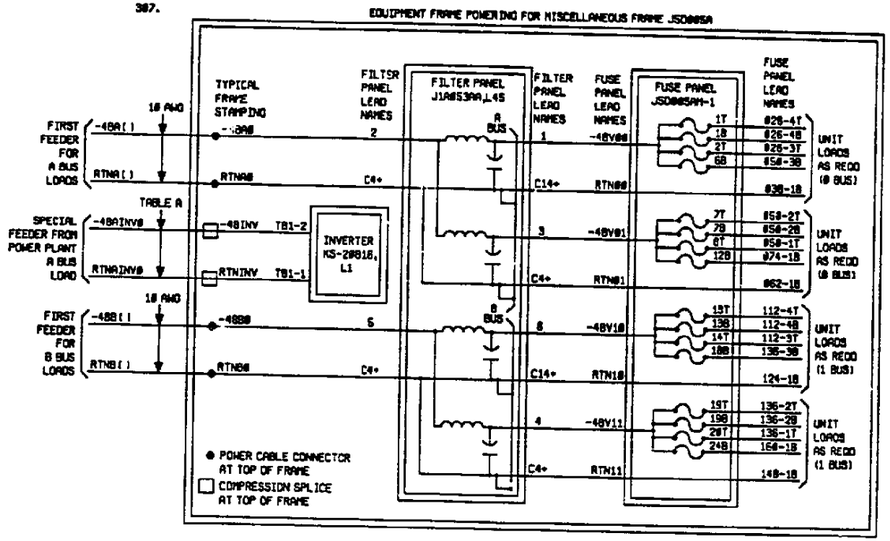
INFORMATION NOTES (CONT):

386.



387.



DC POWER DISTRIBUTION		DWG SIZE	ISSUE
		C2	14B
AT&T	SD-50005-01		SHEET 038

INFORMATION NOTES (CONT):

308. -48V POWER DISTRIBUTION FEEDERS FOR 7 FT CABINETS

7 FT CABINET	MAX NO. OF FR PER OFFICE	BAY	EACH FEEDER SUPPLIES THESE CKTS			CIRCUIT CURRENT DRAIN IN AMPS		FILTER		FEEDER				TOTAL AMPS PER CABINET		MAXIMUM LOOP LENGTH FOR EACH FEEDER PR.
			NAME	CKT	%	LIST 1	LIST 2	TYPE	VOLT DROP	NUMBER	VOLT DROP	SIZE (AWG)	FUSE	LIST 1	LIST 2	
JSD0818 TIME MULTI-PLEXED SWITCH	THO 0 & THO 1	0 OR 1	CU SU	SD-SD037 SD-SD043	100 100	2.39 7.34	2.91 9.01	37	-	A0 OR B0	.75	10	20A			58
			SU FU	SD-SD036 SD-SD019	100 100	7.34 1.58	9.01 1.89	37	-	A1 OR B1	.75	10	20A	18.57	22.73	64
JSD083C INTER-FACE MODULE CONTROL		-	MCU TSIU OSU	SD-SD040 SD-SD041 SD-SD035	50 40 50	2.64 2.44 1.32	3.24 3.00 1.62	37	-	A0	.75	10	20A			88
			TSIU FU	SD-SD041 SD-SD019	10 50	.85 .75	1.04 .98	37	-	A1	.75	10	20A			368
			MCU TSIU OSU	SD-SD040 SD-SD041 SD-SD035	50 40 50	2.64 2.44 1.32	3.24 3.00 1.62	37	-	B0	.75	10	20A	16.00	19.68	88
			TSIU FU	SD-SD041 SD-SD019	10 50	.85 .75	1.04 .98	37	-	B1	.75	10	20A			368
JSD0830 LINE TRUNK PER-IPHERAL 0 (TYP)			LU 0	SD-SD051	100	5.58	6.71	37	-	A0	.75	10	20A			183
			DLTU TU FU	SD-SD201 SD-SD300 SD-SD019	50 50 50	3.24 .60 .75	3.95 .74 .98	37	-	A1	.75	10	20A			122
			LU 1	SD-SD051	100	5.58	6.71	37	-	B0		10	20A	20.18 (NOTE 6)	24.68	183
			DLTU TU FU	SD-SD201 SD-SD300 SD-SD019	50 50 50	3.24 .60 .75	3.95 .74 .98	37	-	B1	.75	12	20A			122
JSD0830 LINE TRUNK PER-IPHERAL 2 (TYP)			LU 2	SD-SD051	100	5.58	6.71	37	-	A0	.75	10	20A			183
			MSU DSU FU	SD-SD033 SD-SD035 SD-SD019	50 50 50	2.88 1.32 .75	3.48 1.62 .98		-	A1	.75	10	20A			116
										B0				15.24 (NOTE 6)	18.55	
			MSU DSU FU	SD-SD033 SD-SD035 SD-SD019	50 50 50	2.88 1.32 .75	3.48 1.62 .98		-	B1	.75	12	20A			118
JSD0830 LINE TRUNK PER-IPHERAL 3 (TYP)		-						37	-	A0						
			TU FU	SD-SD300 SD-SD019	50 50	.60 .75	.74 .98	37	-	A1	.75	10				427
								37	-	B0	.75	10		4.78 (NOTE 6)	5.72	
			DCTU TU FU	SD-2P877 SD-SD300 SD-SD019	50 50	2.00 .75	2.44 .98	37	-	B1	.75	10				227
JSD0830 LINE TRUNK PER-IPHERAL 4 (TYP)																

NOTES:

1. SEE FLOOR PLAN DATA SECTION FPO 001-024-150 THROUGH 155.
2. FULLY LOADED 19 GAUGE FEEDERS FOR NO. 66SS FRAMES WILL GIVE A .75 VOLT DROP AT A L2 DRAIN OF 16 AMPERES AT 42.75 VOLTS (LOW BATTERY), EQUIVALENT TO 13 AMPERES OF L1 BUSY HOUR DRAIN; THIS RESULTS IN A MAXIMUM LOOP LENGTH OF 44 FEET PER FEEDER. FOR FEEDERS THAT ARE LESS THAN FULLY LOADED, THE MAXIMUM LOOP LENGTHS IN THE ABOVE TABLE APPLY. FOR LOOP LENGTHS GREATER THAN THE 44 FEET FOR A FULLY LOADED FEEDER OR GREATER THAN THE TABLE LENGTHS, LARGER GAUGE WIRE SIZES SHOULD BE CALCULATED TO GIVE A .75 VOLT DROP AT THE REQUIRED L2 DRAIN.
3. SEE CURRENT DRAIN DATA SD-SD002-01 FOR CURRENT DRAINS FOR EACH CIRCUIT. VALUES GIVEN IN INFORMATION NOTE 308 ARE FOR GUIDANCE ONLY; IN THE EVENT OF CONFLICT, SD-SD002-01 SHALL BE CONTROLLING.
4. FEEDER ARRANGEMENTS FOR FRAMES ARE INCLUDED FOR RECORD FOR EARLY OFFICES WHICH USED EQUIPMENT FRAMES. FOR LATER OFFICES USING CABINETS, THE PORTIONS OF INFORMATION NOTE 308 REFERRING TO CABINETS SHOULD BE USED.
5. LINE TRUNK PERIPHERAL FRAMES SHOULD BE EQUIPPED PER JOB REQUIREMENTS, AND FEEDER DRAINS CALCULATED ACCORDINGLY USING CURRENT DRAIN DATA SD-SD002-01. ARRANGEMENTS AND FEEDER DRAINS GIVEN HERE ARE TYPICAL ONLY.
6. THE LIST 1 DRAINS GIVEN ARE AN AVERAGE VALUE TO BE USED IN ESTIMATING ENTIRE OFFICE DRAINS, IF THE EXACT EQUIPAGE FOR EACH CABINET IS NOT KNOWN.

DC POWER DISTRIBUTION

DWG SIZE: C2 | ISSUE: 14B

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INFORMATION NOTES (CONT):

300. -48V POWER DISTRIBUTION FEEDERS

FRAME OR CABINET	MAX NO. OF FR PER OFFICE	BAY	EACH FEEDER SUPPLIES THESE CKTS			CIRCUIT CURRENT DRAIN IN AMPS		FILTER		FEEDER				TOTAL AMPS PER CABINET		MAXIMUM LOOP LENGTH FOR EACH FEEDER PR.
			NAME	CKT	%	LIST 1	LIST 2	TYPE	VOLT DROP	NUMBER	VOLT DROP	SIZE (AWG)	FUSE	LIST 1	LIST 2	
JSD003R LINE TRUNK LT0	1	0	LU	SD-50051	100	5.58	6.71	37	-	A0	.75	18	20A	34.37	42.88	103
			DTLU	SD-50201	50	3.24	3.96	37	-	A1	.75	18	20A			172
			LU	SD-50051	100	5.58	6.71	37	-	B0	.75	18	20A			103
			DLTU	SD-50201	50	5.63	6.91	37	-	B1	.75	18	20A			99
		1	MCU	SD-50040	50	2.64	3.24	37	-	A0	.75	18	20A			129
			TSIU	SD-50041	10	.85	1.04									
			DSU	SD-50035	50	1.32	1.62									
			TSIU	SD-50041	40	2.44	3.00	37	-	A1	.75	18	20A			225
		1	MCU	SD-50040	50	2.64	3.24	37	-	B0	.75	18	20A			129
			TSIU	SD-50041	10	.85	1.04									
			DSU	SD-50035	50	1.32	1.62									
			TSIU	SD-50041	40	2.44	3.00	37	-	B1	.75	18	20A			225
JSD003B SUPPLE-MENTARY LINE TRUNK SLT0	-		MSU	SD-50033	50	2.90	3.40	37	-	A0	.75	18	20A	14.94	18.23	118
			DSU	SD-50035	50	1.32	1.62									
			TU	SD-50300	50	.58	.74									
			LU	SD-50051	100	5.58	6.71	37	-	A1	.75	18	20A			103
			MSU	SD-50033	50	2.90	3.40	37	-	B0	.75	18	20A			118
			DSU	SD-50035	50	1.32	1.62									
			TU	SD-50300	50	.74	.88									
										B1						
JSD003L-1 SMC MCTU2 AND 2 LU OR MISC UNITS			MCTU2	SD-50151-01	100	7.50	9.15	-	-	A0	.75	18	20A			76
			MCTU2	SD-50151-01	100	7.50	9.15	-	-	B0	.75	18	20A			76
								-	-	A1	.75	18	20A			
								-	-	B1	.75	18	20A			
JSD003L-1 SMC MCTU2 (2) AND DLTU2 (2)			MCTU2	SD-50151-01	100	7.50	9.15	-	-	A0	.75	18	20A	31.52	38.44	73
			DLTU2	SD-50205-01	50	.38	.46	-	-							
			MCTU2	SD-50151-01	100	7.50	9.15	-	-	A1	.75	18	20A			73
			DLTU2	SD-50205-01	50	.38	.46	-	-							
			MCTU2	SD-50151-01	100	7.50	9.15	-	-	B0	.75	18	20A			73
			DLTU2	SD-50205-01	50	.38	.46	-	-							
			MCTU2	SD-50151-01	100	7.50	9.15	-	-	B1	.75	18	20A			73
			DLTU2	SD-50205-01	50	.38	.46	-	-							
JSD003L-1 SMC MCTU2 AND PSU (2) OR MISC UNITS			MCTU2	SD-50151-01	100	7.50	9.15	-	-	A0	.75	18	20A			76
			MCTU2	SD-50151-01	100	7.50	9.15	-	-	B0	.75	18	20A			76
								-	-	A1	.75	18	20A			
								-	-	A2	.75	18	20A			
								-	-	B1	.75	18	20A			
								-	-	B2	.75	18	20A			
JSD003L-1 SMC MCTU2 AND ISLU (BUS 0)			MCTU2	SD-50151-01	100	7.50	9.15	-	-	A0	.75	18	20A			76
			MCTU2	SD-50151-01	100	7.50	9.15	-	-	B0	.75	18	20A			76
			ISLU	SD-50091-01	25	*	*	-	-	A1	.75	18	20A			
					25	*	*	-	-	A2	.75	18	20A			
					25	*	*	-	-	A3	.75	18	20A			
					25	*	*	-	-	A4	.75	18	20A			
JSD003L-1 SMC MCTU2 AND ISLU (BUS 1)			MCTU2	SD-50151-01	100	7.50	9.15	-	-	A0	.75	18	20A			76
			MCTU2	SD-50151-01	100	7.50	9.15	-	-	B0	.75	18	20A			76
			ISLU	SD-50091-01	25	*	*	-	-	B1	.75	18	20A			
					25	*	*	-	-	B2	.75	18	20A			
					25	*	*	-	-	B3	.75	18	20A			
					25	*	*	-	-	B4	.75	18	20A			

* - MUST BE CALCULATED PER JOB CONDITIONS

OC POWER DISTRIBUTION

CAGE SIZE	ISSUE
C2	14B

AT&T	SD-50005-01	SHEET
		05

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INFORMATION NOTES (CONT)

308. -48V POWER DISTRIBUTION FEEDERS FOR 7 FT CABINETS (CONT)

7 FT CABINET	MAX NO. OF FR PER OFFICE	BAY	EACH FEEDER SUPPLIES THESE CKTS NAME	CKT	X	CIRCUIT CURRENT DRAIN IN AMPS LIST 1	LIST 2	FILTER TYPE	FILTER VOLT DROP	FEEDER NUMBER	FEEDER VOLT DROP	FEEDER SIZE (AWG)	FEEDER FUSE	TOTAL AMPS PER CABINET LIST 1	TOTAL AMPS PER CABINET LIST 2	MAXIMUM LOOP LENGTH FOR EACH FEEDER PR.
JSD0058 MISC M8	-	-	RP	SD-5D044	100	1.84	2.24	9	.06	A8	.75	18	20A	6.68 STBY 34.15 RUN	7.86 STBY 46.86 RUN	287
			OA	SD-5D008	50	.24	.28									50
			INV	SD-82179 STBY RUN	100	.25 27.8	.38 39.8	2	-	INV 0	.75	6 2 TABLE A	50A			100 TABLE A
			RP	SD-5D044	100	1.84	2.24	9	.06	B8	.75	18	20A			385
			OA	SD-5D008	50	.24	.28									
			13A	SD-97753	100	1.59	2.86	2	.16	NOTE	.75	16	1-1/3A			1168
			ABS	SD-5D048	100	.50	.50	-	-	123,268						
JSD0062 MESSAGE SWITCH CABINET MSG0			MSPU	SD-50136-01	100	5.85	6.16	37	-	A0	.75	18	20A	19.91	24.29	185
			FU	SD-50019-01	50	.38	.45									
			MICU	SD-50125-01	100	2.33	2.84	37	-	A1	.75	18	20A			112
			MSPU	SD-50136-01	100	5.85	6.16									
			MSCU	SD-50026-01	100	2.85	2.52	37	-	A2	.75	18	20A			278
			MSPU	SD-50136-01	100	5.85	6.16	37	-	A3	.75	18	20A			113
JSD0063 MESSAGE SWITCH CABINET MSG1			MSPU	SD-50136-01	100	5.85	6.16	37	-	B0	.75	18	20A	18.58	23.91	185
			FU	SD-50019-01	50	.38	.45									
			MICU	SD-50125-01	100	2.00	2.48	37	-	B1	.75	18	20A			81
			MSPU	SD-50136-01	100	5.85	6.16									
			MSCU	SD-50026-01	100	2.85	2.52	37	-	B2	.75	18	20A			278
			MSPU	SD-50136-01	100	5.85	6.16	37	-	B3	.75	18	20A			113

DC POWER DISTRIBUTION

DWG SIZE C2 | ISSUE 14B

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INFORMATION NOTES (CONT):

308. -48V POWER DISTRIBUTION FEEDERS FOR 7 FT FRAMES.

7 FT FRAME	MAX NO. OF FR PER OFFICE	BAY	EACH FEEDER SUPPLIES THESE CKTS			CIRCUIT CURRENT DRAIN IN AMPS		FILTER		FEEDER				TOTAL AMPS PER CABINET		MAXIMUM LOOP LENGTH FOR EACH FEEDER PR.
			NAME	CKT	%	LIST 1	LIST 2	TYPE	VOLT DROP	NUMBER	VOLT DROP	SIZE (AWG)	FUSE	LIST 1	LIST 2	
JSD##SA MISC ##	-		RP OA	SD-SD##4 SD-SD##8	100 50	1.84 .24	2.24 .28	9	.06	A8	.75	10	20A	6.68 STBY 34.15 RUN	7.86 STBY 46.88 RUN	200
			INV	SD-82179 STBY RUN	100	.25 27.8	.36 39.8	2	.10	INV 8	1.0	6 2 TABLE A	50A			50 100 TABLE A
			RP OA 13A	SD-SD##4 SD-SD##8 SD-97753	100 50 100	1.84 .24 1.68	2.24 .28 2.08	9 2	.06 .16	B8	.75 .75	10 10	20A 20A			155
			ABS	SD-SD##8	100	.58	.58	-	-	NOTE 123,288	.75	15	1-1/3A			1,168
MDF			TT		100	.06	.04	-	-	A8	.75	10	20A	.12	.10	17,533
ED-5D03S MCC				SD-SD181		.06	.06	-	-	B8	.75	10	20A	.06	.06	11,688
JSD##SA MESSAGE SWITCH MSGS #	1	0	MICU MPU MPU	SD-SD125 SD-SD126 SD-SD126	100 100 100	2.06 2.56 2.56	2.46 3.14 3.14	37	-	A8	.75	10	20A	28.58	35.88	82
			MSCU MPU MPU	SD-SD826 SD-SD126 SD-SD126	100 100 100	2.06 2.56 2.56	2.52 3.14 3.14	37	-	A1	.75	10	20A			78
		1	MICU MPU MPU	SD-SD125 SD-SD126 SD-SD126	100 100 100	2.06 2.56 2.56	2.46 3.14 3.14	37	-	B8	.75	10	20A			82
			MSCU MPU MPU	SD-SD826 SD-SD827 SD-SD827	100 100 100	2.06 2.56 2.56	2.52 3.14 3.14	37	-	B1	.75	10	20A			78

DC POWER DISTRIBUTION

CAGE SIZE C2 | ISSUE 14B

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INFORMATION NOTES (CONT):

308. -48V POWER DISTRIBUTION FEEDERS FOR 7 FT FRAMES AND 7 FT CABINETS (CONT)

7 FT FRAME	MAX NO. OF FR PER OFFICE	BAY	EACH FEEDER SUPPLIES THESE CKTS			CIRCUIT CURRENT DRAIN IN AMPS		FILTER		FEEDER				TOTAL AMPS PER CABINET		MAXIMUM LOOP LENGTH FOR EACH FEEDER PR.
			NAME	CKT	%	LIST 1	LIST 2	TYPE	VOLT DROP	NUMBER	VOLT DROP	SIZE (AWG)	FUSE	LIST 1	LIST 2	
J1C129A-1 3B PROC CONTROL FRAME 0 CU0	1		FANS A	SD-4C056	100	3	3	-	-		.75	10	20A	38	63	232
			C & D B	C & D	100	3	3	-	-		.75	10	20A			232
			PU C	2448 0	100	7.5	9	-	-		.75	10	20A			77
			PU D	2448 1	100	7.5	9	-	-		.75	10	20A			77
			PU E	2448 2	100	7.5	9	-	-		.75	10	20A			77
			PU F	2448 3	100	7.5	9	-	-		.75	10	20A			77
J1C129A-1 3B PROC CONTROL FRAME 1 CU1	1		FANS A	SD-4C056	100	3	3	-	-		.75	10	20A	38	63	232
			C & D B	C & D	100	3	3	-	-		.75	10	20A			232
			PU C	2448 0	100	7.5	9	-	-		.75	10	20A			77
			PU D	2448 1	100	7.5	9	-	-		.75	10	20A			77
			PU E	2448 2	100	7.5	9	-	-		.75	10	20A			77
			PU F	2448 3	100	7.5	9	-	-		.75	10	20A			77
J1C138B-1 3B PROC PERIF CONTROL FRAME 0 PC0	1		IOP B	SD-4C052 J1C133	100	7.5	9	-	-		.75	10	20A	16.5	24	77
			IOP C	SD-4C052 J1C138A	100	3	3	-	-		.75	10	20A			232
			DFC A	SD-4C051	100	6	8	-	-		.75	10	20A			88
J1C138B-1 3B PROC PERIF CONTROL FRAME 1 PC1	1		IOP B	SD-4C052 J1C138	100	7.5	9	-	-		.75	10	20A	17	25	77
			IOP C	SD-4C052 J1C138A	100	3	3	-	-		.75	10	20A			232
			DFC A	SD-4C051	100	6	8	-	-		.75	10	20A			88
			PS D	J1C138C	100	0.5	1.0	-	-		.75	10	20A			696
J1C131B-1 3B PROC MOVING HEAD DISK MHD 0	1		INV N48	SD-4C057	100	45	54	-	-		NOTE 1	2	50A	47	57	100
			PNL -48	SD-4C078	100	2	3	-	-		.75	10	20A			232
J1C131B-1 3B PROC MOVING HEAD DISK MHD 1	1		INV N48	SD-4C057	100	45	54	-	-		NOTE 1	2	50A	47	57	100
			PNL -48	SD-4C078	100	2	3	-	-		.75	10	20A			232

INFORMATION NOTES (CONT):

308. (CONT):

7 FT FRAME	MAX NO. OF FR PER OFFICE	BAY	EACH FEEDER SUPPLIES THESE CKTS			CIRCUIT CURRENT DRAIN IN AMPS		FILTER		FEEDER				TOTAL AMPS PER CABINET		MAXIMUM LOOP LENGTH FOR EACH FEEDER PR.
			NAME	CKT	%	LIST 1	LIST 2	TYPE	VOLT DROP	NUMBER	VOLT DROP	SIZE (AWG)	FUSE	LIST 1	LIST 2	
J1C131B-1 3B PROC MOVING HEAD DISK MHD 2	1		INV N48	SD-4C057	100	45	54	-	-		NOTE 1	2	50A	47	57	100
			PNL -48	SD-4C078	100	2	3	-	-		.75	10	20A			232
J1C147B CONTROL FRAME CABINET (7 FT)	1	0	A	FANS	100	2	3	-	-	A0	.75	10	20	47	55	232
			B	CONVC TN3	100	4	4	-	-	A1	.75	10	20			172
			D	CONVR,B TN5	100	12	14	-	-	A2	.75	10	20			49
			E	CONVO	100	5	6	-	-	A3	.75	10	20			115
			F	CONV F G	100	10	12	-	-	A4	.75	10	20			58
			G	CONVE TN6	100	6	7	-	-	A5	.75	10	20			99
			H		100	7	8	-	-	A6	.75	10	20			86
			J	PORT SW	100	1	1	-	-	A7	.75	10	20			690
J1C147B CONTROL FRAME CABINET (7 FT)	1	1	A	FANS	100	2	3	-	-	B0	.75	10	20			232
			B	CONVC TN3	100	4	4	-	-	B1	.75	10	20			172
			D	CONVR,B	100	12	14	-	-	B2	.75	10	20			49
			E	CONVO	100	5	6	-	-	B3	.75	10	20			115
			F	CONV F G	100	10	12	-	-	B4	.75	10	20			58
			G	CONVE TN9	100	6	7	-	-	B5	.75	10	20			99
			H	CONV.J,H TN6,9	100	7	8	-	-	B6	.75	10	20			86
16M MBYTE MHD/INV J1C149B	3		A	INV#1	100	13	15	-	-		.75	10	20	39	45	47
			B	INV#2	100	13	15	-	-		.75	10	20			47
			C	INV#3	100	13	15	-	-		.75	10	20			47
TAPE FRAME J1C134B			A	INV#1	100	5	8	-	-		.75	10	20	10	18	86
			B	INV#2	100	5	8	-	-		.75	10	20			86

NOTES:

1. GREATER THAN 1.0 VOLT APPLIES; VOLTAGE DROP WITH 2 AWG IS ACCEPTABLE WITH LOOP LENGTH 100 FT OR LESS.

2. IF CONFLICTS BETWEEN THIS SECTION AND ED-4C184-10 EXIST, ED-4C184-10 AND/OR ED-4C184-01 SHALL BE CONTROLLING.

3. FOR ECONOMY OF MANUFACTURE AND STOCKING OF MATERIALS, ALL 3B-PROCESSOR FEEDERS SIZED AT 12 AWG WILL BE RUN AS 10 AWG BETWEEN THE EQUIPMENT FRAMES AND THE P.D. FRAME, FOR NO. 5ESS APPLICATIONS.

DC POWER DISTRIBUTION

DWG SIZE C2 | ISSUE 14B

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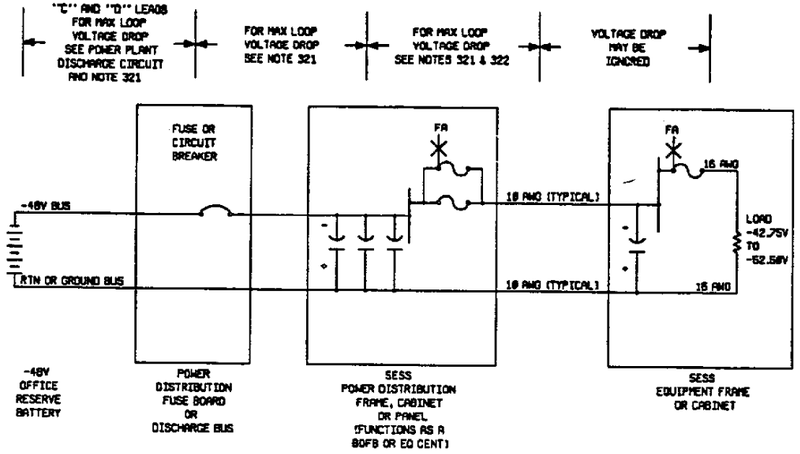
INFORMATION NOTES (CONT):

309.



NOTES:

1. CALCULATE WIRE SIZE BASED ON L2 FRAME CURRENT DRAIN. PARALLEL FEEDERS FROM PDFR TO PDFR AS REQUIRED. USE JUNCTION BAR SPLICE PLATES AS REQUIRED.

310.

-48 VOLT DISCHARGE FUSE ASSIGNMENT TABLE FOR SESS 131A PWR PLT

FUSE PANEL	BUS	POS NO.	STAMPING		FUSE TYPE
			UPPER FUSE CARD OR FS CAP. AND NO.	LOWER FUSE CARD OR FS CAP. AND NO.	

-48 VOLT DISCHARGE FUSE ASSIGNMENT TABLE FOR SESS 131A PWR PLT

FUSE PANEL	BUS	POS NO.	STAMPING		FUSE TYPE
			UPPER FUSE CARD OR FS CAP. AND NO.	LOWER FUSE CARD OR FS CAP. AND NO.	

INFORMATION NOTES (CONT):

310. (CONT)

-48 VOLT DISCHARGE FUSE ASSIGNMENT TABLE FOR SESS 133A PWR PLT

FUSE PANEL	BUS	POS NO.	STAMPING		FUSE TYPE
			UPPER FUSE CARD OR FS CAP. AND NO.	LOWER FUSE CARD OR FS CAP. AND NO.	

-48 VOLT DISCHARGE FUSE ASSIGNMENT TABLE FOR SESS 133A PWR PLT

FUSE PANEL	BUS	POS NO.	STAMPING		FUSE TYPE
			UPPER FUSE CARD OR FS CAP. AND NO.	LOWER FUSE CARD OR FS CAP. AND NO.	

DC POWER DISTRIBUTION

CAGE CODE	ISSUE
C2	14B

AT&T	SD-5D005-01	SHEET
		09

INFORMATION NOTES (CONT):

311. POWER DISTRIBUTING FRAME ASSIGNMENTS TYPICAL ASSIGNMENTS FOR 3B20D PROCESSOR WJIC129A-1, J1C130B-1, J1C131A-1) IN 7 FT FRAMES.

POWER DISTRIBUTING FRAME NUMBER 0
FILTER/FUSE PANEL NUMBER 1

A BUS								
			LOAD FRAME					
FUSE BLOCK	FUSE	FEEDER MNEMONIC	NAME	FEEDER ASSIGNMENT	L1 BUSY HOUR AMPERES (NORMAL BATTERY)	L2 CURRENT (AMPERES)	FEEDER SIZE NOTE 9	
A1	1	-48A @1 @1	CF0	-48A	3	3	10	
	2	-48A @1 @2	CF0	-48B	3	3	10	
	3	-48A @1 @3	CF0	-48C	7.5	9	10	
	4	-48A @1 @4						
A2	5	-48A @1 @5	CF0	-48D	7.5	9	10	
	6	-48A @1 @6	CF0	-48E	7.5	9	10	
	7	-48A @1 @7	CF0	-48F	7.5	9	10	
	8	-48A @1 @8						
A3	9	-48A @1 @9	PC0	-48A	6	6	10	
	10	-48A @1 10	PC0	-48B	7.5	9	10	
	11	-48A @1 11	PC0	-48C	3	3	10	
	12	-48A @1 12	MH00	-48	2	3	10	
A4	13	-48A @1 13	MH02	-48	2	3	10	
	14	-48A @1 14						
	15	-48A @1 15						
	16	-48A @1 16						
A5	17	-48A @1 17						
	18	-48A @1 18						
	19	-48A @1 19						
	20	-48A @1 20						
A6	21	-48A @1 21						
	22	-48A @1 22						
	23	-48A @1 23						
	24	-48A @1 24						

B BUS								
			LOAD FRAME					
FUSE BLOCK	FUSE	FEEDER MNEMONIC	NAME	FEEDER ASSIGNMENT	L1 BUSY HOUR AMPERES (NORMAL BATTERY)	L2 CURRENT (AMPERES)	FEEDER SIZE NOTE 9	
B1	1	-48B @1 @1	CF1	-48A	3	3	10	
	2	-48B @1 @2	CF1	-48B	3	3	10	
	3	-48B @1 @3	CF1	-48C	7.5	9	10	
	4	-48B @1 @4						
B2	5	-48B @1 @5	CF1	-48D	7.5	9	10	
	6	-48B @1 @6	CF1	-48E	7.5	9	10	
	7	-48B @1 @7	CF1	-48F	7.5	9	10	
	8	-48B @1 @8						
B3	9	-48B @1 @9	PC1	-48A	6	6	10	
	10	-48B @1 10	PC1	-48B	7.5	9	10	
	11	-48B @1 11	PC1	-48C	3	3	10	
	12	-48B @1 12	MH01	-48	2	3	10	
B4	13	-48B @1 13	PC1	-48D	@.5	@.5	10	
	14	-48B @1 14						
	15	-48B @1 15						
	16	-48B @1 16						
B5	17	-48B @1 17						
	18	-48B @1 18						
	19	-48B @1 19						
	20	-48B @1 20						
B6	21	-48B @1 21						
	22	-48B @1 22						
	23	-48B @1 23						
	24	-48B @1 24						

POWER DISTRIBUTING FRAME NUMBER 0
FILTER/FUSE PANEL NUMBER 2

A BUS							
			LOAD FRAME				
FUSE BLOCK	FUSE	FEEDER MNEMONIC	NAME	FEEDER ASSIGNMENT	L1 BUSY HOUR AMPERES (NORMAL BATTERY)	L2 CURRENT (AMPERES)	FEEDER SIZE
A1	1	-48A @2 @1					
	2	-48A @2 @2					
	3	-48A @2 @3					
	4	-48A @2 @4					
A2	5	-48A @2 @5					
	6	-48A @2 @6					
	7	-48A @2 @7					
	8	-48A @2 @8					
A3	9	-48A @2 @9					
	10	-48A @2 10					
	11	-48A @2 11					
	12	-48A @2 12					
A4	13	-48A @2 13					
	14	-48A @2 14					
	15	-48A @2 15					
	16	-48A @2 16					
A5	17	-48A @2 17					
	18	-48A @2 18					
	19	-48A @2 19					
	20	-48A @2 20					
A6	21	-48A @2 21					
	22	-48A @2 22					
	23	-48A @2 23					
	24	-48A @2 24					

B BUS							
			LOAD FRAME				
FUSE BLOCK	FUSE	FEEDER MNEMONIC	NAME	FEEDER ASSIGNMENT	L1 BUSY HOUR AMPERES (NORMAL BATTERY)	L2 CURRENT (AMPERES)	FEEDER SIZE
B1	1	-48B @2 @1					
	2	-48B @2 @2					
	3	-48B @2 @3					
	4	-48B @2 @4					
B2	5	-48B @2 @5					
	6	-48B @2 @6					
	7	-48B @2 @7					
	8	-48B @2 @8					
B3	9	-48B @2 @9					
	10	-48B @2 10					
	11	-48B @2 11					
	12	-48B @2 12					
B4	13	-48B @2 13					
	14	-48B @2 14					
	15	-48B @2 15					
	16	-48B @2 16					
B5	17	-48B @2 17					
	18	-48B @2 18					
	19	-48B @2 19					
	20	-48B @2 20					
B6	21	-48B @2 21					
	22	-48B @2 22					
	23	-48B @2 23					
	24	-48B @2 24					

INFORMATION NOTES (CONT):

311. (CONT)

POWER DISTRIBUTING FRAME NUMBER 0
FILTER/FUSE PANEL NUMBER 3

A BUS							
			LOAD FRAME				
FUSE BLOCK	FUSE	FEEDER MNEMONIC	NAME	FEEDER ASSIGNMENT	L1 BUSY HOUR AMPERES (NORMAL BATTERY)	L2 CURRENT (AMPERES)	FEEDER SIZE
A1	1	-48A @3 @1					
	2	-48A @3 @2					
	3	-48A @3 @3					
	4	-48A @3 @4					
A2	5	-48A @3 @5					
	6	-48A @3 @6					
	7	-48A @3 @7					
	8	-48A @3 @8					
A3	9	-48A @3 @9					
	10	-48A @3 10					
	11	-48A @3 11					
	12	-48A @3 12					
A4	13	-48A @3 13					
	14	-48A @3 14					
	15	-48A @3 15					
	16	-48A @3 16					
A5	17	-48A @3 17					
	18	-48A @3 18					
	19	-48A @3 19					
	20	-48A @3 20					
A6	21	-48A @3 21					
	22	-48A @3 22					
	23	-48A @3 23					
	24	-48A @3 24					

B BUS							
			LOAD FRAME				
FUSE BLOCK	FUSE	FEEDER MNEMONIC	NAME	FEEDER ASSIGNMENT	L1 BUSY HOUR AMPERES (NORMAL BATTERY)	L2 CURRENT (AMPERES)	FEEDER SIZE
B1	1	-48B @3 @1					
	2	-48B @3 @2					
	3	-48B @3 @3					
	4	-48B @3 @4					
B2	5	-48B @3 @5					
	6	-48B @3 @6					
	7	-48B @3 @7					
	8	-48B @3 @8					
B3	9	-48B @3 @9					
	10	-48B @3 10					
	11	-48B @3 11					
	12	-48B @3 12					
B4	13	-48B @3 13					
	14	-48B @3 14					
	15	-48B @3 15					
	16	-48B @3 16					
B5	17	-48B @3 17					
	18	-48B @3 18					
	19	-48B @3 19					
	20	-48B @3 20					
B6	21	-48B @3 21					
	22	-48B @3 22					
	23	-48B @3 23					
	24	-48B @3 24					

OC POWER DISTRIBUTION

DWG SIZE: C2
ISSUE: 14B
AT&T
SD-5D005-01
SHEET: 010

INFORMATION NOTES (CONT):

312. -48V POWER DISTRIBUTION FEEDERS FOR 6 FT CABINETS

6 FT CABINET	MAX NO. OF FR PER OFFICE	BAY	EACH FEEDER SUPPLIES THESE CKTS			CIRCUIT CURRENT DRAIN IN AMPS		FILTER		FEEDER				TOTAL AMPS PER CABINET		MAXIMUM LOOP LENGTH FOR EACH FEEDER PR.
			NAME	CKT	X	LIST 1	LIST 2	TYPE	VOLT DROP	NUMBER	VOLT DROP	SIZE (AWG)	FUSE	LIST 1	LIST 2	
J5D001C THS 0			CU	SD-5D037-01	100	2.39	2.92	37	-	A0	.75	10	20A	12.58	15.44	73
			SU	SD-5D043-01	100	4.48	5.36									
			FU	SD-5D019-02	50	.75	.98									
			SU	SD-5D043-01	100	4.48	5.36	37	-	A1	.75	10	20A			110
			FU	SD-5D019-02	50	.75	.98									
J5D001C THS 1			CU	SD-5D037-01	100	2.39	2.92	37	-	B0	.75	10	20A	12.58	15.44	73
			SU	SD-5D043-01	100	4.48	5.36									
			FU	SD-5D019-02	50	.75	.98									
			SU	SD-5D043-01	100	4.48	5.36	37	-	B1	.75	10	20A			110
			FU	SD-5D019-02	50	.75	.98									
J5D002A MCC			TAU	SD-5D181-01		.85	.85	37	-		.75	10	20A			500
J5D002B MCC			TAU	SD-5D181-01		.85	.85	37	-		.75	10	20A			500
J5D002C MCC			TAU	SD-5D181-01		.85	.85	37	-		.75	10	20A			500
J5D002D MCC			TAU	SD-5D181-01		.85	.85	37	-		.75	10	20A			500
J5D003E IMC			IMP	SD-5D129-01	50	2.76	3.36	37	-	A0	.75	10	20A	16.26	19.82	85
			TSIU	SD-5D045-01	40	2.53	3.08									
			OSU	SD-5D035-01	50	1.32	1.62									
			TSIU	SD-5D041-01	10	.85	1.04	37	-	A1	.75	10	20A			350
			FU	SD-5D019-02	50	.75	.98									
			IMP	SD-5D129-01	50	2.81	3.18	37	-	B0	.75	10	20A			80
			TSIU	SD-5D045-01	40	2.53	3.08									
			OSU	SD-5D035-01	50	1.32	1.62									
			TSIU	SD-5D041-01	10	.85	1.04	37	-	B1	.75	10	20A			350
			FU	SD-5D019-02	50	.75	.98									
J5D003F LTP (NOTE 1)								37	-	A0	.75	10	20A	PER JOB COND.	PER JOB COND.	
			FU	SD-5D019-02	50	.75	.98	37	-	A1	.75	10	20A			
								37	-	B0	.75	10	20A			
			FU	SD-5D019-02	50	.75	.98	37	-	B1	.75	10	20A			

NOTES:

1. EACH LTP IS EQUIPPED WITH UP TO SIX PERIPHERAL UNITS AS ENGINEERED PER JOB. CABINET DRAINS TO BE CALCULATED ON A JOB BASIS, USING DATA FROM SD-5D002-01, CURRENT DRAIN SCHEMATIC.

DC POWER DISTRIBUTION

DWG SIZE C2 | ISSUE 14B

AT&T | SD-5D005-01 | SHEET D11A

INFORMATION NOTES (CONT'd

312. -48V POWER DISTRIBUTION FEEDERS FOR 6 FT CABINETS. (CONT)

6 FT CABINET	MAX NO. OF FR PER OFFICE	BAY	EACH FEEDER SUPPLIES THESE CKTS NAME	CKT	X	CIRCUIT CURRENT DRAIN IN AMPS LIST 1	LIST 2	FILTER TYPE	FILTER VOLT DROP	FEEDER NUMBER	FEEDER VOLT DROP	FEEDER SIZE (AWG)	FEEDER FUSE	TOTAL AMPS PER CABINET LIST 1	TOTAL AMPS PER CABINET LIST 2	MAXIMUM LOOP LENGTH FOR EACH FEEDER PR.
JSD00SC MISC																
JSD00SC MSC 0		0	MSPU	SD-50136-01	100	3.00	3.66	37		A0	.75	10	20A	14.00	18.14	153
			FU	SD-50019-02	50	.75	.90									
			MICU	SD-50125-01	100	2.33	2.84	37		A1	.75	10	20A			131
			MSCU	SD-50026-01	100	2.05	2.52									
			MSPU	SD-50136-01	100	3.00	3.66	37		A2	.75	10	20A			192
			MSPU	SD-50136-01	100	3.00	3.66	37		A3	.75	10	20A			153
			FU	SD-50019-02	50	.75	.90									
JSD00SC MSC 1		1	MSPU	SD-50136-01	100	3.00	3.66	37		B0	.75	10	20A	14.00	18.14	153
			FU	SD-50019-02	50	.75	.90									
			MICU	SD-50125-01	100	2.33	2.84	37		B1	.75	10	20A			131
			MSCU	SD-50026-01	100	2.05	2.52									
			MSPU	SD-50136-01	100	3.00	3.66	37		B2	.75	10	20A			192
			MSPU	SD-50136-01	100	3.00	3.66	37		B3	.75	10	20A			153
			FU	SD-50019-02	50	.75	.90									
JSD00SC MISC CABINET 0	-	0						37	-	A0	.75	10	20A	PER JOB COND	PER JOB COND	
								37	-	A1	.75	10	20A			
								37	-	B0						
								37	-	B1	.75	10	20A			
			AA			.12	.15		-	ABS	.75	16	1.33 A			1SS0 NOTE 1
			INV	SD-82179	100	.25 27.5	.31 39.0		.16	INV 0	1.0	TABLE A	50A			NOTE 2 TABLE A INVERTER STANDBY / INVERTER RUNNING
JSD00SC MISC CABINET 1	-	1						2	.16	A0	.75	10	20A	PER JOB COND	PER JOB COND	
								2	.15	A1	.75	10	20A			
								2	.16	B0	.75	10	20A			
								2	.16	B1	.75	10	20A			

NOTES:

2. LEADS GO DIRECT TO POWER PLANT ABS FUSE, NOT TO POWER DISTRIBUTION CABINET.

3. LEADS GO DIRECT TO POWER PLANT, NOT TO POWER DISTRIBUTION CABINET.

DC POWER DISTRIBUTION

DWG SIZE C2 | ISSUE 14B

AT&T | SD-50005-01 | SHEET 0118

INFORMATION NOTES (CONT):

312. -48V POWER DISTRIBUTION FEEDERS FOR 8 FT CABINETS. (CONT)

8 FT CABINET	MAX NO. OF FR PER OFFICE	BAY	EACH FEEDER SUPPLIES THESE CKTS NAME	CKT	%	CIRCUIT CURRENT DRAIN IN AMPS LIST 1	LIST 2	FILTER TYPE	VOLT DROP	FEEDER NUMBER	VOLT DROP	SIZE (AWG)	FUSE	TOTAL AMPS PER CABINET LIST 1	LIST 2	MAXIMUM LOOP LENGTH FOR EACH FEEDER PR.
JSD#03F LTP ISLU ON BUS 0			ISLU	SD-50091-01	25			37	-	A0	SEE NOTE 321	18	20A	PER JOB COND (NOTE 4)	PER JOB COND (NOTE 4)	
					25			37	-	A1		18	20A			
					25			37	-	A2		18	20A			
					25			37	-	A3		18	20A			
			PS	SD-50074-01	50	5.36	6.53	37	-	A4		18	20A			107
					50	5.36	6.53	37	-	A5		18	20A			107
					50	5.36	6.53	37	-	A8		18	20A			107
					50	5.36	6.53	37	-	B1		18	20A			107
JSD#03F LTP ISLU ON BUS 1			ISLU	SD-50091-01	25			37	-	B0	SEE NOTE 321	18	20A	PER JOB COND (NOTE 4)	PER JOB COND (NOTE 4)	
					25			37	-	B1		18	20A			
					25			37	-	B2		18	20A			
					25			37	-	B3		18	20A			
			PS	SD-50074-01	50	5.36	6.53	37	-	A0		18	20A			107
					50	5.36	6.53	37	-	A1		18	20A			107
					50	5.36	6.53	37	-	B4		18	20A			107
					50	5.36	6.53	37	-	B5		18	20A			107
JSD#03F LTP ISLU ON BUS 0 & ISLU ON BUS 1			ISLU	SD-50091-01	25			37	-	A0	SEE NOTE 321	18	20A	PER JOB COND (NOTE 4)	PER JOB COND (NOTE 4)	
					25			37	-	A1		18	20A			
					25			37	-	A2		18	20A			
					25			37	-	A3		18	20A			
			ISLU	SD-50091-01	25			37	-	B0		18	20A			
					25			37	-	B1		18	20A			
					25			37	-	B2		18	20A			
					25			37	-	B3		18	20A			
JSD#03F LTP RISLU/ OSPS ISLU ON BUS 0			ISLU	SD-50091-01	25			37	-	A0	SEE NOTE 321	18	20A	PER JOB COND (NOTE 4)	PER JOB COND (NOTE 4)	34
					25			37	-	A1		18	20A			44
					25			37	-	A2		18	20A			34
					25			37	-	A3		18	20A			44
			DLTU-RR	SD-50284-01	50	2.63	3.21	37	-	A4		18	20A			215
			LAU	SD-50864-01	50	3.66	3.66	37	-	A5		18	20A			196
			DLTU-RR	SD-50284-01	50	2.63	3.21	37	-	B4		18	20A			215
			LAU	SD-50864-01	50	3.66	3.66	37	-	B1		18	20A			196
JSD#03F LTP RISLU/ OSPS ISLU ON BUS 1			ISLU	SD-50091-01	25			37	-	B0	SEE NOTE 321	18	20A	PER JOB COND (NOTE 4)	PER JOB COND (NOTE 4)	34
					25			37	-	B1		18	20A			44
					25			37	-	B2		18	20A			34
					25			37	-	B3		18	20A			44
			DLTU-RR	SD-50284-01	50	2.63	3.21	37	-	A0		18	20A			215
			LAU	SD-50864-01	50	3.66	3.66	37	-	A1		18	20A			196
			DLTU-RR	SD-50284-01	50	2.63	3.21	37	-	B4		18	20A			215
			LAU	SD-50864-01	50	3.66	3.66	37	-	B5		18	20A			196
JJC251A TRANS-MISSION FACILI-TIES CABINET (TYP)			NATIU(0)	SD-50167-01	100			37	-	A0	SEE NOTE 321	18	20A	2.94	3.59	195
			TFIU(3)	SD-50165-01	100			37	-	A1		18	20A	2.94	3.59	195
										A2						
			TFIU(1)	SD-50165-01	100			37	-	A3		18	20A	2.94	3.59	195
			NATIU(1)	SD-50167-01	100			37	-	B0		18	20A	2.94	3.59	195
			TFIU(4)	SD-50165-01	100			37	-	B1		18	20A	2.94	3.59	195
										B2						
			TFIU(2)	SD-50165-01	100			37	-	B3		18	20A	2.94	3.59	195
JSD#03D LINE TRUNK PERIPH. (TYP)		STFU	SFIU	SD-50089-01	100	4.24	5.17	37	-	A0		18	20A	6.59	8.84	86
		STFU	STIU	SD-50164-01	100	2.35	2.87									
										A1						
		STFU	SFIU	SD-50088-01	100	4.24	5.17	37	-	B0		18	20A	6.59	8.84	86
		STFU	STIU	SD-50164-01	100	2.35	2.87									
										B1						

NOTES:

4. CURRENT DRAINS FOR ISLU'S WHICH ARE NOT PART OF RISLU'S MUST BE CALCULATED PER THE AMOUNT OF TELEPHONE TRAFFIC, USING SD-50892-01. THE WORST CASE DRAINS MUST NOT BE USED FOR EVERY CASE. MAXIMUM L1 DRAIN IS 15 AMPERES/FEEDER FOR ISLU'S. IF L1 DRAIN IS MORE THAN 13A, ONLY 2 FUSE POSITIONS ON THE P.O. FUSE BLOCK MAY BE ASSIGNED. (SEE INFORMATION NOTE 323).

DC POWER DISTRIBUTION

DWG SIZE C2 | ISSUE 148

AT&T | SD-50005-01 | SHEET D12A

INFORMATION NOTES (CONT)»

312. -48V POWER DISTRIBUTION FEEDERS FOR 6 FT CABINETS (CONT)

6 FT CABINET	MAX NO. OF FR PER OFFICE	BAY	EACH FEEDER SUPPLIES THESE CKTS			CIRCUIT CURRENT DRAIN IN AMPS		FILTER		FEEDER				TOTAL AMPS PER CABINET		MAXIMUM LOOP LENGTH FOR EACH FEEDER PR.
			NAME	CKT	X	LIST 1	LIST 2	TYPE	VOLT DROP	NUMBER	VOLT DROP	SIZE (AWG)	FUSE	LIST 1	LIST 2	
J3F011C-1 RN			RN	SD-3F005-01	43	11.7	13.7	37	-	A0	.75	18	20A	35.40	41.80	51
				SD-3F010-01	57											
				SD-3F008-01	100	6.8	6.8	37	-	B0*	.75	18	20A			183
				SD-3F018-01	43	11.7	13.7	37	-	B1*	.75	18	20A			51
				SD-3F006-01	57											
				SD-3F006-01	100	6.8	6.8	37	-	A1*	.75	18	20A			183
J3F009-1 AFA (7 FT FR)			AFA	SD-3F005-01	100	8.8	9.6	37	-	A0	.75	18	20A	28.80	24.40	73
					100	8.8	9.6	37	-	B0	.75	18	20A			73
					100	2.4	2.8	37	-	A1	.75	18	20A			270
					100	2.4	2.8	37	-	B1	.75	18	20A			270
J3F010G-1 DISC1 DFA			DFA	SD-3F021-01	100	3.2	3.8	37	-	A0	.75	18	20A	5.40	7.60	185
					100	3.2	3.8	37	-	B0	.75	18	20A			185
J3F010F-1 DFA			DFA	SD-3F027-01	100	3.0	3.5	37	-	A0	.75	18	20A	6.00	7.00	290
					100	3.0	3.5	37	-	B0	.75	18	20A			290

* - NOTE UNUSUAL FEEDER BUS SEQUENCE

DC POWER DISTRIBUTION

DWG SIZE	ISSUE
C2	14B

AT&T	SD-50005-01	SHEET D128

INFORMATION NOTE (CONT):

313. -48V POWER DISTRIBUTION FEEDERS FOR 6 FT CABINETS

6 FT CABINET	MAX NO. OF FR PER OFFICE	BAY	EACH FEEDER SUPPLIES THESE CKTS			CIRCUIT CURRENT DRAIN IN AMPS		FILTER		FEEDER				TOTAL AMPS PER CABINET		MAXIMUM LOOP LENGTH FOR EACH FEEDER PR.
			NAME	CKT	Z	LIST 1	LIST 2	TYPE	VOLT DROP	NUMBER	VOLT DROP	SIZE (AWG)	FUSE	LIST 1	LIST 2	
JIC134A-1 TAPE UNIT FRAME WITH CABINET ASSEMBLY	1		A	INV 1	100	5	8	-	-		.75	10	20A	16	16	87
			B	INV 2	100	5	8	-	-		.75	10	20A			87
PROCESSOR CONTROL CABINET JIC173A-1 OR JIC173B-1	1	0	A		100	2	3	-	-	A0	.75	10	20A	93.6	139.6	236
			B		100	4	4	-	-	A1	.75	10	20A			172
			D		100	12	14	-	-	A2	.75	10	20A			48
			E		100	6	6	-	-	A3	.75	10	20A			117
			F		100	10	12	-	-	A4	.75	10	20A			58
			G		100	6	7	-	-	A5	.75	10	20A			99
			H		100	7	8	-	-	A6	.75	10	20A			87
			J		100	1	1	-	-	B0	.75	10	20A			708
		1	A		100	2	3	-	-	B0	.75	10	20A			236
			B		100	4	4	-	-	B1	.75	10	20A			172
			D		100	12	14	-	-	B2	.75	10	20A			48
			E		100	5	6	-	-	B3	.75	10	20A			117
			F		100	10	12	-	-	B4	.75	10	20A			58
			G		100	6	7	-	-	B5	.75	10	20A			99
			H		100	7	8	-	-	B6	.75	10	20A			87
JIC192A-1 TAPE/ DISK CABINET	1	0	A	DRIVE 00	100	7	11	-	-	A0	.75	10	20A	28 NOTE 4	44 NOTE 4	64
			B	DRIVE 01	100	7	11	-	-	B0	.75	10	20A			64
			C	DRIVE 02	100	7	11	-	-	A1	.75	10	20A			64
			D	DRIVE 03	100	7	11	-	-	B1	.75	10	20A			64
	1	2	A	DRIVE 04	100	7	11	-	-	A0	.75	10	20A	56 NOTE 4	88 NOTE 4	64
			B	DRIVE 05	100	7	11	-	-	B0	.75	10	20A			64
			C	DRIVE 06	100	7	11	-	-	A1	.75	10	20A			64
			D	DRIVE 07	100	7	11	-	-	B1	.75	10	20A			64
			E	DRIVE 08	100	7	11	-	-	A2	.75	10	20A			64
			F	DRIVE 09	100	7	11	-	-	B2	.75	10	20A			64
			G	DRIVE 10	100	7	11	-	-	A3	.75	10	20A			64
			H	DRIVE 11	100	7	11	-	-	B3	.75	10	20A			64

NOTES:

1. GREATER THAN 1.0 VOLT APPLIES: VOLTAGE DROP WITH 2 AWG IS ACCEPTABLE WITH LOOP LENGTH 100 FT OR LESS.
2. IF CONFLICTS BETWEEN THIS SECTION AND ED-4C184-10 EXIST, ED-4C184-10 AND/OR ED-4C184-01 SHALL BE CONTROLLING.
3. FOR ECONOMY OF MANUFACTURE AND STOCKING OF MATERIALS, ALL 3B-PROCESSOR FEEDERS SIZED AT 12 AWG WILL BE RUN AS 10 AWG BETWEEN THE EQUIPMENT FRAMES AND THE P.D. FRAME, FOR NO. 5 ESS APPLICATIONS.
4. MAY BE PARTIALLY EQUIPPED.

DC POWER DISTRIBUTION

DWG SIZE C2 | ISSUE 14B

AT&T | SD-5D005-01 | SHEET 013

INFORMATION NOTES (CONT):

314. TYPICAL POWER DISTRIBUTION ASSIGNMENTS FOR 7 FT CABINETS (P.D., 3B2BO, AND NO. 5ESS).
TYPICAL ASSIGNMENTS FOR 3B2BO PROCESSOR (JIC147B-1 & AND J1C163A-1).

POWER DISTRIBUTING FRAME NUMBER 0
FILTER/FUSE PANEL NUMBER 1

A BUS								
			LOAD FRAME					
FUSE BLOCK	FUSE	FEEDER MNEMONIC	NAME	FEEDER ASSIGNMENT	L1 BUSY HOUR AMPERES (NORMAL BATTERY)	L2 CURRENT (AMPERES)	FEEDER SIZE NOTE 9	
A1	1	-48A 01	CF0	-48A	2	3	18	
	2	-48A 02	CF0	-48B	4	4	18	
	3	-48A 03	CF0	-48C	12	14	18	
	4	-48A 04	CF0	-48E	5	8	18	
A2	1	-48A 05	CF0	-48F	18	12	18	
	2	-48A 06	CF0	-48G	6	7	18	
	3	-48A 07	CF0	-48H	7	2	18	
	4	-48A 08	CF0	-48J	1	1	18	
A3	1	-48A 09	MH08	-48B	13	15	18	
	2	-48A 10	MH01	-48C	13	15	18	
	3	-48A 11	TAPE	-48A	6	8	18	
	4	-48A 12						
A4	1	-48A 13						
	2	-48A 14						
	3	-48A 15						
	4	-48A 16						
A5	1	-48A 17						
	2	-48A 18						
	3	-48A 19						
	4	-48A 20						
A6	1	-48A 21						
	2	-48A 22						
	3	-48A 23						
	4	-48A 24						

B BUS								
			LOAD FRAME					
FUSE BLOCK	FUSE	FEEDER MNEMONIC	NAME	FEEDER ASSIGNMENT	L1 BUSY HOUR AMPERES (NORMAL BATTERY)	L2 CURRENT (AMPERES)	FEEDER SIZE NOTE 9	
B1	1	-48B 01	CF1	-48A	2	3	18	
	2	-48B 02	CF1	-48B	4	4	18	
	3	-48B 03	CF1	-48C	12	14	18	
	4	-48B 04	CF1	-48E	5	8	18	
B2	1	-48B 05	CF1	-48F	18	12	18	
	2	-48B 06	CF1	-48G	6	7	18	
	3	-48B 07	CF1	-48H	7	8	18	
	4	-48B 08						
B3	1	-48B 09	MH01	-48B	13	15	18	
	2	-48B 10						
	3	-48B 11	TAPE	-48B	6	8	18	
	4	-48B 12						
B4	1	-48B 13						
	2	-48B 14						
	3	-48B 15						
	4	-48B 16						
B5	1	-48B 17						
	2	-48B 18						
	3	-48B 19						
	4	-48B 20						
B6	1	-48B 21						
	2	-48B 22						
	3	-48B 23						
	4	-48B 24						

POWER DISTRIBUTING FRAME NUMBER 0
FILTER/FUSE PANEL NUMBER 2

A BUS							
			LOAD FRAME				
FUSE BLOCK	FUSE	FEEDER MNEMONIC	NAME	FEEDER ASSIGNMENT	L1 BUSY HOUR AMPERES (NORMAL BATTERY)	L2 CURRENT (AMPERES)	FEEDER SIZE
A1	1	-48A 04 01					
	2	-48A 04 02					
	3	-48A 04 03					
	4	-48A 04 04					
A2	5	-48A 04 05					
	6	-48A 04 06					
	7	-48A 04 07					
	8	-48A 04 08					
A3	9	-48A 04 09					
	10	-48A 04 10					
	11	-48A 04 11					
	12	-48A 04 12					
A4	13	-48A 04 13					
	14	-48A 04 14					
	15	-48A 04 15					
	16	-48A 04 16					
A5	17	-48A 04 17					
	18	-48A 04 18					
	19	-48A 04 19					
	20	-48A 04 20					
A6	21	-48A 04 21					
	22	-48A 04 22					
	23	-48A 04 23					
	24	-48A 04 24					

B BUS							
			LOAD FRAME				
FUSE BLOCK	FUSE	FEEDER MNEMONIC	NAME	FEEDER ASSIGNMENT	L1 BUSY HOUR AMPERES (NORMAL BATTERY)	L2 CURRENT (AMPERES)	FEEDER SIZE
B1	1	-48B 04 01					
	2	-48B 04 02					
	3	-48B 04 03					
	4	-48B 04 04					
B2	5	-48B 04 05					
	6	-48B 04 06					
	7	-48B 04 07					
	8	-48B 04 08					
B3	9	-48B 04 09					
	10	-48B 04 10					
	11	-48B 04 11					
	12	-48B 04 12					
B4	13	-48B 04 13					
	14	-48B 04 14					
	15	-48B 04 15					
	16	-48B 04 16					
B5	17	-48B 04 17					
	18	-48B 04 18					
	19	-48B 04 19					
	20	-48B 04 20					
B6	21	-48B 04 21					
	22	-48B 04 22					
	23	-48B 04 23					
	24	-48B 04 24					

INFORMATION NOTES (CONT):

314. (CONT):

POWER DISTRIBUTING FRAME NUMBER 0
FILTER/FUSE PANEL NUMBER 3

A BUS							
			LOAD FRAME				
FUSE BLOCK	FUSE	FEEDER MNEMONIC	NAME	FEEDER ASSIGNMENT	L1 BUSY HOUR AMPERES (NORMAL BATTERY)	L2 CURRENT (AMPERES)	FEEDER SIZE
A1	1	-48A 01					
	2	-48A 02					
	3	-48A 03					
	4	-48A 04					
A2	1	-48A 05					
	2	-48A 06					
	3	-48A 07					
	4	-48A 08					
A3	1	-48A 09					
	2	-48A 10					
	3	-48A 11					
	4	-48A 12					
A4	1	-48A 13					
	2	-48A 14					
	3	-48A 15					
	4	-48A 16					
A5	1	-48A 17					
	2	-48A 18					
	3	-48A 19					
	4	-48A 20					
A6	1	-48A 21					
	2	-48A 22					
	3	-48A 23					
	4	-48A 24					

B BUS							
			LOAD FRAME				
FUSE BLOCK	FUSE	FEEDER MNEMONIC	NAME	FEEDER ASSIGNMENT	L1 BUSY HOUR AMPERES (NORMAL BATTERY)	L2 CURRENT (AMPERES)	FEEDER SIZE
B1	1	-48B 01					
	2	-48B 02					
	3	-48B 03					
	4	-48B 04					
B2	1	-48B 05					
	2	-48B 06					
	3	-48B 07					
	4	-48B 08					
B3	1	-48B 09					
	2	-48B 10					
	3	-48B 11					
	4	-48B 12					
B4	1	-48B 13					
	2	-48B 14					
	3	-48B 15					
	4	-48B 16					
B5	1	-48B 17					
	2	-48B 18					
	3	-48B 19					
	4	-48B 20					
B6	1	-48B 21					
	2	-48B 22					
	3	-48B 23					
	4	-48B 24					

DC POWER DISTRIBUTION

DWG SIZE C2 | ISSUE 14B

AT&T | SD-5D005-01 | SHEET 014A

INFORMATION NOTES (CONT)s

314. TYPICAL POWER DISTRIBUTION ASSIGNMENTS FOR 7 FT CABINETS (P.D., 3B28D, AND NO. 5ESS).
TYPICAL ASSIGNMENTS FOR 3B28D PROCESSOR (J1C147B-1 & MHD J1C169A-1). (CONT)

POWER DISTRIBUTING FRAME NUMBER 0
FILTER/FUSE PANEL NUMBER 5

A BUS								
			LOAD FRAME					
FUSE BLOCK	FUSE	FEEDER MNEMONIC	NAME	FEEDER ASSIGNMENT	L1 BUSY HOUR AMPERES (NORMAL BATTERY)	L2 CURRENT (AMPERES)	FEEDER SIZE NOTE 9
A1	1	-48A #5 #1	MHD0	N48V	45 NOTE 6	54 NOTE 7	NOTE 10
	2	-48A #5 #2	MHD2	N48V	45 NOTE 6	54 NOTE 7	NOTE 10

B BUS								
			LOAD FRAME					
FUSE BLOCK	FUSE	FEEDER MNEMONIC	NAME	FEEDER ASSIGNMENT	L1 BUSY HOUR AMPERES (NORMAL BATTERY)	L2 CURRENT (AMPERES)	FEEDER SIZE NOTE 9
B1	1	-48A #5 #1	MHD1	N48V	45 NOTE 6	54 NOTE 7	NOTE 10

NOTES:

1. MAXIMUM TOTAL L1 BUSY HOUR AMPERES PER FUSE BLOCK IS 45 AMPERES.
2. MAXIMUM BUSY HOUR AMPERES AT NORMAL BATTERY VOLTAGE FOR ANY INDIVIDUAL FEEDER IS 13 AMPERES.
3. IF ANY INDIVIDUAL FEEDER HAS A BUSY HOUR DRAIN OF MORE THAN 12.5 AMPERES, THEN ONLY 3 FEEDERS MAY BE ASSIGNED IN THAT BLOCK.
4. ALL LORD FUSES ARE TYPE 74F, 28 AMPERES. PILOT FUSES ARE TYPE 70D, 8.5 AMPERES.
5. PANEL ( ) IS TO BE USED AS A WORKSHEET FOR INSTALLATIONS HAVING MORE THAN 1 POWER DISTRIBUTING FRAME.
6. A NON-OPERATING INVERTER REQUIRES 3 AMPERES L1 AND 4 AMPERES L2.
7. GREATER THAN 1 VOLT APPLIES.
8. RTNA AND RTNC SHOULD RUN FROM THE PD FRAME ONLY TO THE GROUND WINDOW, AND NOT ALL THE WAY TO THE POWER PLANT.
9. FOR NO. 5ESS APPLICATIONS, ALL 12AWG FEEDERS WILL BE RUN AS 10AWG.
10. D.C. POWER FEEDERS FROM PD TO MHD CABINET SHALL BE FURNISHED AS FOLLOWS:

ONE WAY CABLE RACK FEET	WIRE GAUGE
0-35 FEET	4 GAUGE
35-50 FEET	2 GAUGE
50-100 FEET	0 GAUGE
100-125 FEET	00 GAUGE
125-200 FEET	0000 GAUGE

DC POWER DISTRIBUTION

AT&T	SD-50005-01	CAG SIZE C2	ISSUE 14B
		SHEET D14B	

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INFORMATION NOTES (CONT):

315. TYPICAL ASSIGNMENTS FOR 3B20D MOD 2 PROCESSOR (J1C176A-1, J1C175A-1 AND J1C174A-1)

POWER DISTRIBUTING FRAME NUMBER 8
FILTER/FUSE PANEL NUMBER 1

A BUS								
			LOAD FRAME					
FUSE BLOCK	FUSE	FEEDER MNEMONIC	NAME	FEEDER ASSIGN-MENT	L1 BUSY HOUR AMPERES (NORMAL BATTERY)	L2 CURRENT (AMPERES)	FEEDER SIZE
A1	1	-48A #1	PCCA8	N48A	2	3	18
	2	-48A #2	PCCA8	N48B	4	4	18
	3	-48A #3	PCCA8	N48D	12	14	18
	4	-48A #4	PCCA8	N48E	5	6	18
A2	1	-48A #5	PCCA8	N48F	10	12	18
	2	-48A #6	PCCA8	N48G	6	7	18
	3	-48A #7	PCCA8	N48H	7	8	18
	4	-48A #8					
A3	1	-48A #9	OPC	N48B	13	15	18
	2	-48A 10	OPC	N48D	13	15	18
	3	-48A 11	TAPE	N48A	6	8	18
	4	-48A 12					
A4	1	-48A 13					
	2	-48A 14					
	3	-48A 15					
	4	-48A 16					
A5	1	-48A 17					
	2	-48A 18					
	3	-48A 19					
	4	-48A 20					
A6	1	-48A 21					
	2	-48A 22					
	3	-48A 23					
	4	-48A 24					

B BUS								
			LOAD FRAME					
FUSE BLOCK	FUSE	FEEDER MNEMONIC	NAME	FEEDER ASSIGN-MENT	L1 BUSY HOUR AMPERES (NORMAL BATTERY)	L2 CURRENT (AMPERES)	FEEDER SIZE
B1	1	-48B #1	PCCA1	N48A	2	3	18
	2	-48B #2	PCCA1	N48B	4	4	18
	3	-48B #3	PCCA1	N48D	12	14	18
	4	-48B #4	PCCA1	N48E	5	6	18
B2	1	-48B #5	PCCA1	N48F	10	12	18
	2	-48B #6	PCCA1	N48G	6	7	18
	3	-48B #7	PCCA1	N48H	7	8	18
	4	-48B #8	PCCA8	N48J	1	1	18
B3	1	-48B #9	OPC	N48F	13	15	18
	2	-48B 10					
	3	-48B 11	TAPE	N48B	5	8	18
	4	-48B 12					
B4	1	-48B 13					
	2	-48B 14					
	3	-48B 15					
	4	-48B 16					
B5	1	-48B 17					
	2	-48B 18					
	3	-48B 19					
	4	-48B 20					
B6	1	-48B 21					
	2	-48B 22					
	3	-48B 23					
	4	-48B 24					

POWER DISTRIBUTING FRAME NUMBER 8
FILTER/FUSE PANEL NUMBER 3

A BUS							
			LOAD FRAME				
FUSE BLOCK	FUSE	FEEDER MNEMONIC	NAME	FEEDER ASSIGN-MENT	L1 BUSY HOUR AMPERES (NORMAL BATTERY)	L2 CURRENT (AMPERES)	FEEDER SIZE
A1	1	-48A #1					
	2	-48A #2					
	3	-48A #3					
	4	-48A #4					
A2	1	-48A #5					
	2	-48A #6					
	3	-48A #7					
	4	-48A #8					
A3	1	-48A #9					
	2	-48A 10					
	3	-48A 11					
	4	-48A 12					
A4	1	-48A 13					
	2	-48A 14					
	3	-48A 15					
	4	-48A 16					
A5	1	-48A 17					
	2	-48A 18					
	3	-48A 19					
	4	-48A 20					
A6	1	-48A 21					
	2	-48A 22					
	3	-48A 23					
	4	-48A 24					

B BUS							
			LOAD FRAME				
FUSE BLOCK	FUSE	FEEDER MNEMONIC	NAME	FEEDER ASSIGN-MENT	L1 BUSY HOUR AMPERES (NORMAL BATTERY)	L2 CURRENT (AMPERES)	FEEDER SIZE
B1	1	-48B #1					
	2	-48B #2					
	3	-48B #3					
	4	-48B #4					
B2	1	-48B #5					
	2	-48B #6					
	3	-48B #7					
	4	-48B #8					
B3	1	-48B #9					
	2	-48B 10					
	3	-48B 11					
	4	-48B 12					
B4	1	-48B 13					
	2	-48B 14					
	3	-48B 15					
	4	-48B 16					
B5	1	-48B 17					
	2	-48B 18					
	3	-48B 19					
	4	-48B 20					
B6	1	-48B 21					
	2	-48B 22					
	3	-48B 23					
	4	-48B 24					

INFORMATION NOTES (CONT):

315. (CONT)

POWER DISTRIBUTING FRAME NUMBER 8
FILTER/FUSE PANEL NUMBER 4

A BUS							
			LOAD FRAME				
FUSE BLOCK	FUSE	FEEDER MNEMONIC	NAME	FEEDER ASSIGNMENT	L1 BUSY HOUR AMPERES (NORMAL BATTERY)	L2 CURRENT (AMPERES)	FEEDER SIZE
A1	1	-48A #5 #1	OPC	N48WA	23 NOTE 6	28 NOTE 7	NOTE 10
	2	-48A #5 #2	OPC	N48WC	23 NOTE 6	28 NOTE 7	NOTE 10

B BUS							
			LOAD FRAME				
FUSE BLOCK	FUSE	FEEDER MNEMONIC	NAME	FEEDER ASSIGNMENT	L1 BUSY HOUR AMPERES (NORMAL BATTERY)	L2 CURRENT (AMPERES)	FEEDER SIZE
B1	1	-48B #5 #1	OPC	N48E	23 NOTE 6	28 NOTE 7	NOTE 10

NOTES:

1. MAXIMUM TOTAL L1 BUSY HOUR AMPERES PER FUSE BLOCK IS 46 AMPERES.
2. MAXIMUM BUSY HOUR AMPERES AT NORMAL BATTERY VOLTAGE FOR ANY INDIVIDUAL FEEDER IS 13 AMPERES.
3. SEE INFORMATION NOTE 323 FOR FEEDER ASSIGNMENT RULES.
4. ALL LOAD FUSES ARE TYPE 74F, 28 AMPERES. PILOT FUSES ARE TYPE 70C, 0.5 AMPERES.
5. PANEL ( ) IS TO BE USED AS A WORKSHEET FOR INSTALLATIONS HAVING MORE THAN ONE POWER DISTRIBUTING FRAME.
6. A NON-OPERATING INVERTER REQUIRES 3 AMPERES L1 AND 4 AMPERES L2.
7. GREATER THAN 1 VOLT APPLIES.
8. RTNA AND RTNB SHOULD RUN FROM THE PB FRAME ONLY TO THE GROUND WINDOW, AND NOT ALL THE WAY TO THE POWER PLANT.
9. FOR SESS APPLICATIONS, ALL 12 AWG FEEDERS WILL BE FURNISHED AS 10 AWG.
10. D.C. POWER FEEDERS FROM PD TO DPC CABINETS SHALL BE FURNISHED AS FOLLOWS:

ONE WAY CABLE RACK FEET	WIRE GAUGE
0-35 FEET	4 GAUGE
35-60 FEET	2 GAUGE
60-100 FEET	0 GAUGE
100-125 FEET	00 GAUGE
125-200 FEET	0000 GAUGE

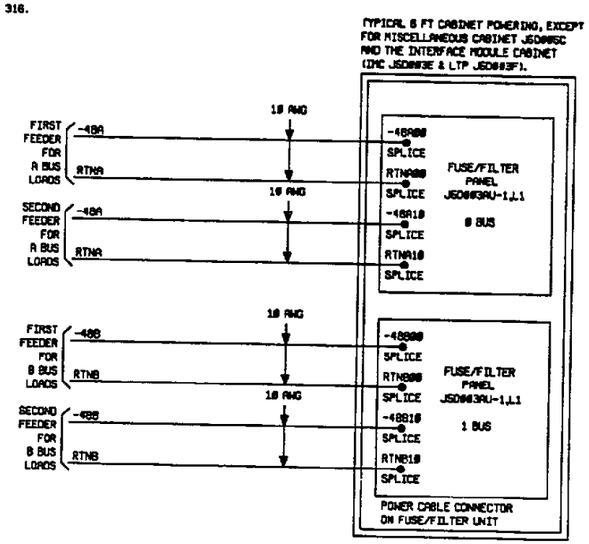
DC POWER DISTRIBUTION

DWG SIZE C2 | ISSUE 14B

AT&T | SD-5D005-01 | SHEET D15

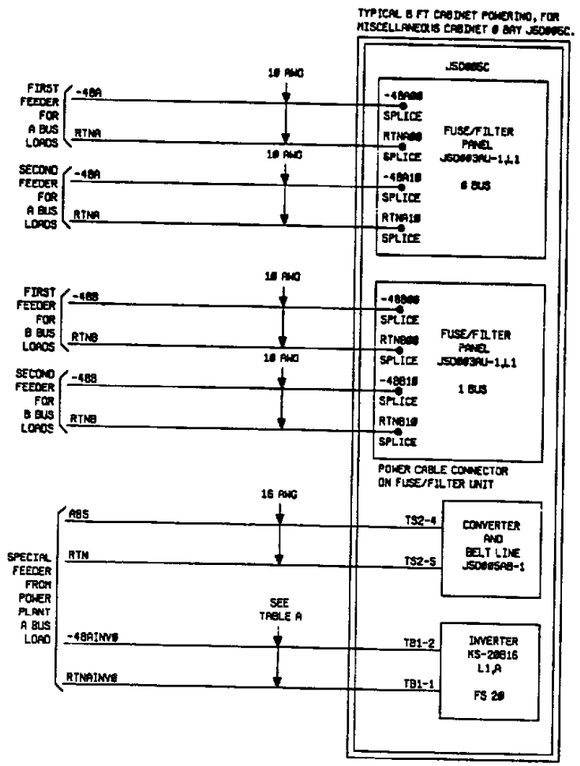
INFORMATION NOTES (CONT):

316.



INFORMATION NOTES (CONT):

317.



DC POWER DISTRIBUTION

DWG SIZE	ISSUE
C2	14B

AT&T	SD-SD005-01	SHEET
		D16

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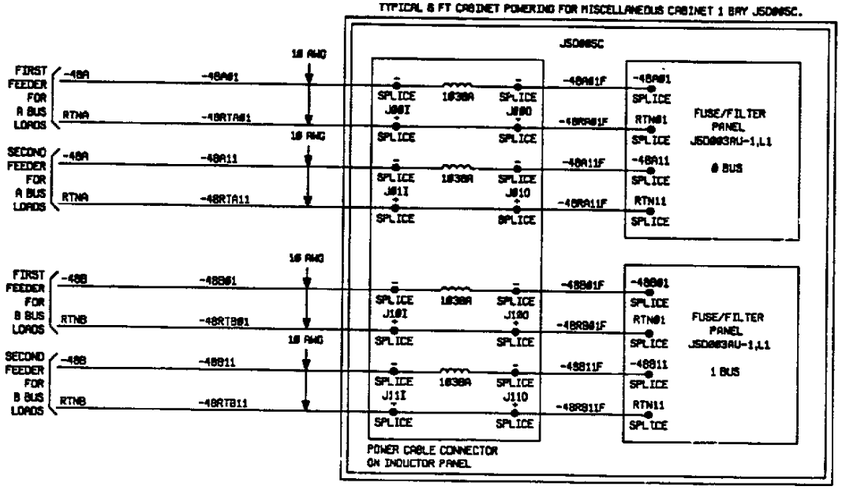
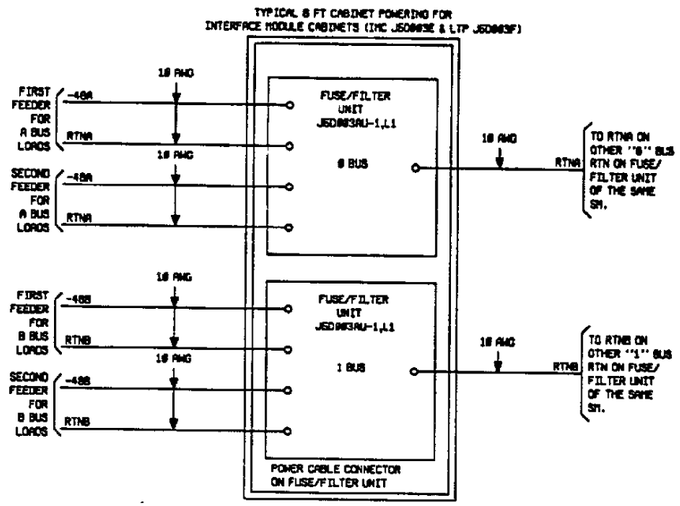
INFORMATION NOTES (CONT):

318.



INFORMATION NOTES (CONT):

319.



DC POWER DISTRIBUTION

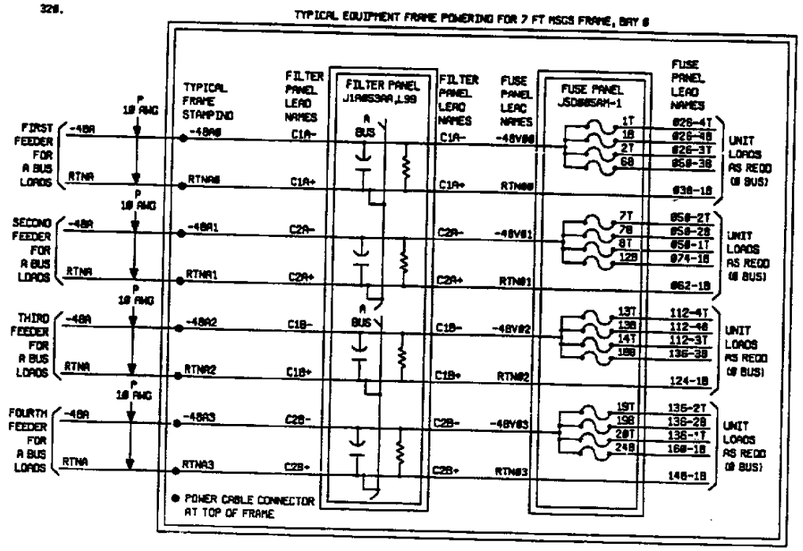
DWG SIZE C2 | ISSUE 14B

AT&T | SD-5D005-01 | SHEET D17

INFORMATION NOTES (CONT):

32B.

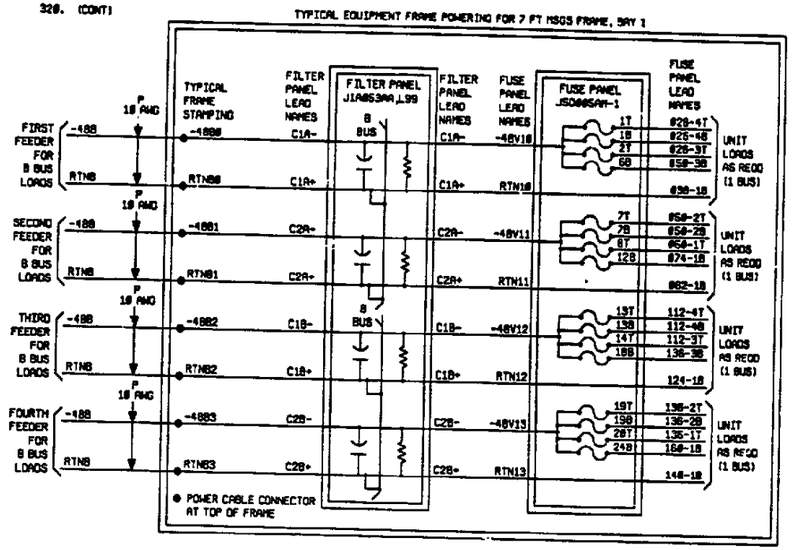
TYPICAL EQUIPMENT FRAME POWERING FOR 7 FT NSGS FRAME, BAY B



INFORMATION NOTES (CONT):

32B. (CONT)

TYPICAL EQUIPMENT FRAME POWERING FOR 7 FT NSGS FRAME, BAY 1



DC POWER DISTRIBUTION

DWG SIZE	ISSUE
C2	14B

AT&T	SD-5D005-01	SHEET
		D18

INFORMATION NOTES (CONT):

321. CALCULATION OF FEEDER SIZES INVOLVES A TRADE-OFF BETWEEN FIRST COST OF THE FEEDERS, OFFICE LIFE CYCLE COSTS OF ENERGY DISSIPATED IN THE FEEDERS, FINAL VOLTS PER CELL (VPC) IN THE OFFICE RESERVE BATTERY, AND FEEDER LOOP LENGTH. CALCULATE WIRE SIZE BASED ON L2 (PEAK) FRAME OR CABINET CURRENT DRAINS, USING THE FOLLOWING FORMULA:

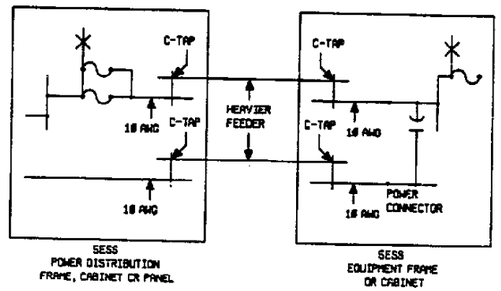
$$\text{FEEDER CABLE CIRCULAR MILL AREA} = \frac{(11.1) \times (\text{FEEDER LOOP LENGTH, IN FEET}) \times (\text{L2 CURRENT DRAIN, IN AMPERES})}{(\text{ALLOWABLE LOOP VOLTAGE DROP IN FEEDER, IN VOLTS})}$$

THE FOLLOWING TABLE MAY BE USED AS A GUIDE:

FEEDER LENGTH IN FEET		TYPICAL VOLTAGE AVAILABLE AT BATTERY AT LOW VOLTAGE (24 CELLS)								TYPICAL VOLTAGE AT PDFB OR DISCHARGE BUS BAR AT BATTERY LOW VOLTAGE	ALLOWABLE FEEDER VOLTAGE DROP PDFB TO POWER DISTRIBUTION CABINET		TYPICAL VOLTAGE AT POWER DISTRIBUTION CABINET AT BATTERY LOW VOLTAGE	ALLOWABLE FEEDER LOOP VOLTAGE DROP P.D. CAB TO EQUIPMENT CABINET	TYPICAL VOLTAGE AT EQUIPMENT CABINET AT BATTERY LOW VOLTAGE
		VOLTS PER CELL													
ONE WAY LENGTH	LOOP LENGTH	1.83V	1.84V	1.85V	1.86V	1.87V	1.88V	1.89V	1.90V		ONE WAY VOLTAGE DROP	LOOP VOLTAGE DROP			
UP TO 30 FEET	UP TO 60 FEET	43.92V								43.75V	.125V	.25V	43.50V	.75V	42.75V
30 FEET TO 60 FEET	60 FEET TO 120 FEET		44.16V							44.00V	.25V	.50V	43.50V	.75V	42.75V
60 FEET TO 100 FEET	120 FEET TO 200 FEET			44.40V						44.25V	.375V	.75V	43.50V	.75V	42.75V
ABOVE 100 FEET	ABOVE 200 FEET				44.64V					44.50V	.50V	1.00V	43.50V	.75V	42.75V
HOT SLIDE ANY LENGTH (TEMPORARY)	HOT SLIDE ANY LENGTH (TEMPORARY)				44.64V					44.50V	.50V	1.00V	43.50V	.75V	42.75V
						44.88V	45.12V	45.36V	45.60V						

INFORMATION NOTES (CONT):

322. FOR MOST CONFIGURATIONS OF SESS SWITCHES, THE .75V ALLOWABLE FEEDER VOLTAGE DROP WILL REQUIRE NO SPECIAL ACTION. ALL FRAMES AND CABINETS ARE CONNECTORIZED WITH KS-21103,L4 CONNECTORS, AND WIRED WITH THE LARGEST WIRE SIZE POSSIBLE (18 AWG). THE TYPICAL MAXIMUM ONE-WAY DISTANCE OF 32 FEET (LOOP LENGTH OF 64 FEET) WILL ALLOW A L2 CURRENT DRAIN OF ABOUT 14.6 AMPERES. FOR UNUSUAL FLOOR PLAN ARRANGEMENTS OR HEAVIER L2 DRAINS, LARGER FEEDERS MUST BE CALCULATED PER THE FORMULA IN NOTE 321, AND THEN SPLICED ABOVE THE P.D. CABINET AND ABOVE THE EQUIPMENT CABINET, USING COMPRESSION TYPE C-TAPS, SCREW TYPE CUTTER TAPS ARE NOT PERMITTED. C-TAPS MUST NOT BE LOCATED IN THE LINE-UP OR CROSS-AISLE RACKS. A CONTINUOUS RUN WITHOUT SPLICES IS REQUIRED IN THESE LOCATIONS. IF REQUIRED, C-TAPS MUST BE LOCATED INSIDE THE POWER DISTRIBUTION FRAME OR EQUIPMENT CABINETS, WHERE THEY MAY BE READILY INSPECTED.



DC POWER DISTRIBUTION

DWG SIZE	ISSUE
C2	14B

AT&T	SD-5D005-01	SHEET 019

INFORMATION NOTES (CONT):

323. THE MODIFIED 30B FUSE BLOCK IN THE POWER DISTRIBUTION CABINET HAS A TOTAL CURRENT LIMIT OF 45 AMPS AND A WATTAGE LIMITATION OF 3.78 WATTS. USE THE FOLLOWING TABLES TO ESTIMATE THE WATTAGE DISSIPATION IN THE 74F FUSES AND THE 30B BUS BARS. THE WATTAGE DISSIPATED IN THE 70G PILOT FUSES MAY BE IGNORED. SEE X-75533

74F FUSE	
L1 BUSY HOUR AMPS	WATTAGE DISSIPATED IN 74F FUSE
1 AMP	.01 WATTS
2 AMPS	.02 WATTS
3 AMPS	.05 WATTS
4 AMPS	.09 WATTS
5 AMPS	.16 WATTS
6 AMPS	.22 WATTS
7 AMPS	.32 WATTS
8 AMPS	.41 WATTS
9 AMPS	.55 WATTS
10 AMPS	.70 WATTS
11 AMPS	.88 WATTS
12 AMPS	1.05 WATTS
13 AMPS	1.25 WATTS

30 B BLOCK BUS BAR	
L1 BUSY HOUR AMPS	WATTAGE DISSIPATED BUS BAR
5 AMPS	.064 WATTS
10 AMPS	.015 WATTS
15 AMPS	.033 WATTS
20 AMPS	.059 WATTS
25 AMPS	.093 WATTS
30 AMPS	.133 WATTS
35 AMPS	.181 WATTS
40 AMPS	.237 WATTS
45 AMPS	.300 WATTS

THE FOLLOWING COMBINATIONS OF FEEDER AMPS ARE ACCEPTABLE, BEING WITHIN THE 45 AMP AND 3.48 WATT LIMITS (3.78 WATTS MINUS .300 WATTS FOR BUS BAR LOSSES)

FEEDERS	LIST 1 AMPERES (BUSY HOURS)							
FIRST	13A	13A	13A	13A	13A	13A	12A	12A
SECOND	13A	13A	13A	12A	12A	12A	11A	12A	11A
THIRD	11A	10A	9A	11A	10A	9A	10A	10A	11A
FOURTH	5A	6A	8A	7A	8A	9A	10A	10A	11A
TOTAL AMPS	42A	42A	43A	43A	43A	43A	44A	44A	45A
TOTAL WATTS	3.46W	3.42W	3.46W	3.42W	3.41W	3.40W	3.45W	3.50W	3.45W

ANY COMBINATION OF LESSER AMPS IS ALSO ACCEPTABLE

EXAMPLE #1

FIRST FUSE	13 AMPS	1.25 WATTS	
SECOND FUSE	13 AMPS	1.25 WATTS	
THIRD FUSE	5 AMPS	.16 WATTS	
FUSE TOTAL	31 AMPS	2.66 WATTS	
PLUS BUS BAR WATTAGE		.13 WATTS	
TOTALS	31 AMPS	2.79 WATTS	ACCEPTABLE

EXAMPLE #2

FIRST FUSE	13 AMPS	1.25 WATTS	
SECOND FUSE	13 AMPS	1.25 WATTS	
THIRD FUSE	11 AMPS	.88 WATTS	
FOURTH FUSE	8 AMPS	.41 WATTS	
FUSE TOTAL	45 AMPS	3.71 WATTS	
PLUS BUS BAR WATTAGE		.30 WATTS	
TOTALS	45 AMPS (OK)	4.01 WATTS (TOO HIGH)	UNACCEPTABLE

EXAMPLE #3

FIRST FUSE	12 AMPS	1.05 WATTS	
SECOND FUSE	12 AMPS	1.05 WATTS	
THIRD FUSE	11 AMPS	.88 WATTS	
FOURTH FUSE	11 AMPS	.88 WATTS	
FUSE TOTAL	46 AMPS	3.78 WATTS	
PLUS BUS BAR WATTAGE		.30 WATTS	
TOTALS	46 AMPS (TOO HIGH)	4.08 WATTS (TOO HIGH)	UNACCEPTABLE

324. THE HEAVY POWER INPUT FEEDERS MAY ENTER THIS POWER DISTRIBUTION EITHER FROM ABOVE THE P.D. (TOP FEED) OR FROM BELOW THE P.D. (BOTTOM FEED). WITH BOTTOM FEED, THE ESS GROUND WINDOW MUST BE LOCATED ON THE FLOOR BELOW THE P.D. IT MAY BE LOCATED AS APPROPRIATE NEAR THE P.D. OR, IF THE DISCHARGE BUS OF THE POWER PLANT IS BEING USED AS THE GROUND WINDOW, THEN THE POWER PLANT MUST BE LOCATED ON THE FLOOR BELOW THE SESS. SEE FLOOR PLAN DATA SECTION FPD 820-800-806-[ ] FOR FLOOR CABLE HOLE SPECIFICATIONS.

DC POWER DISTRIBUTION

DWG SIZE C2 | ISSUE 14B

AT&T | SD-5D005-01 | SHEET 020

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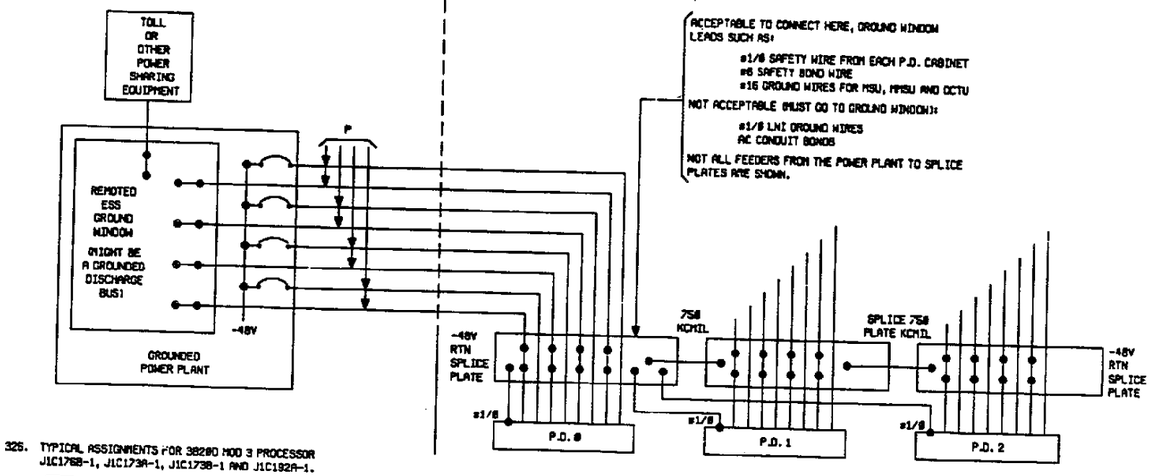
INFORMATION NOTES (CONT):

325. FOR SOME UNUSUAL INSTALLATIONS, TYPICALLY WHERE THE ESS GROUND WINDOW IS REMOTELY LOCATED FROM THE SESS SWITCH (SUCH AS BEING THE DISCHARGE BUS OF THE POWER PLANT), MANY LONG CABLE AND WIRE RUNS TO THE GROUND WINDOW MAY RESULT. AN ACCEPTABLE ALTERNATIVE ARRANGEMENT IS TO RUN THESE LEADS TO THE -48V RTN SPLICE PLATE AT THE FIRST POWER DISTRIBUTION CABINET.



326. TYPICAL ASSIGNMENTS FOR 3B20D MOD 3 PROCESSOR J1C176B-1, J1C173A-1, J1C173B-1 AND J1C192A-1.

POWER DISTRIBUTING FRAME NUMBER 0
FILTER/FUSE PANEL NUMBER 1

A BUS

FUSE BLOCK	FUSE	FEEDER MNEMONIC	LOAD FRAME NAME	FEEDER ASSIGNMENT	L1 BUSY HOUR AMPERES (NORMAL BATTERY)	L2 CURRENT (AMPERES)	FEEDER SIZE
A1	1	-48A #1	PCCA0	N48A	2	3	18
	2	-48A #2	PCCA0	N48B	4	4	18
	3	-48A #3	PCCA0	N48D	12	14	18
	4	-48A #4	PCCA0	N48E	5	6	18
A2	5	-48A #5	PCCA0	N48F	10	12	18
	6	-48A #6	PCCA0	N48G	6	7	18
	7	-48A #7	PCCA0	N48H	7	8	18
	8	-48A #8					
A3	9	-48A #9	T/OC (0)	N48A	7	11	18
	10	-48A 10	T/OC (0)	N48B	7	11	18
	11	-48A 11	T/OC (1)*	N48A	7	11	18
	12	-48A 12	T/OC (1)*	N48E	7	11	18
A4	13	-48A 13	T/OC (2)	N48A	7	11	18
	14	-48A 14	T/OC (2)	N48B	7	11	18
	15	-48A 15	T/OC (2)	N48C	7	11	18
	16	-48A 16	T/OC (2)	N48D	7	11	18
A5	17	-48A 17					
	18	-48A 18					
	19	-48A 19					
	20	-48A 20					
A6	21	-48A 21					
	22	-48A 22					
	23	-48A 23					
	24	-48A 24					

* IF REQUIRED

B BUS

FUSE BLOCK	FUSE	FEEDER MNEMONIC	LOAD FRAME NAME	FEEDER ASSIGNMENT	L1 BUSY HOUR AMPERES (NORMAL BATTERY)	L2 CURRENT (AMPERES)	FEEDER SIZE
B1	1	-48B #1	PCCA1	N48A	2	3	18
	2	-48B #2	PCCA1	N48B	4	4	18
	3	-48B #3	PCCA1	N48D	12	14	18
	4	-48B #4	PCCA1	N48E	5	6	18
B2	5	-48B #5	PCCA1	N48F	10	12	18
	6	-48B #6	PCCA1	N48G	6	7	18
	7	-48B #7	PCCA1	N48H	7	8	18
	8	-48B #8	PCCA0	N48J	1	7	
B3	9	-48B #9	T/OC (0)	N48E	7	11	18
	10	-48B 10	T/OC (0)	N48F	7	11	18
	11	-48B 11	T/OC (1)*	N48B	7	11	18
	12	-48B 12	T/OC (1)*	N48F	7	11	18
B4	13	-48B 13	T/OC (2)	N48E	7	11	18
	14	-48B 14	T/OC (2)	N48F	7	11	18
	15	-48B 15	T/OC (2)	N48G	7	11	18
	16	-48B 16	T/OC (2)	N48H	7	11	18
B5	17	-48B 17					
	18	-48B 18					
	19	-48B 19					
	20	-48B 20					
B6	21	-48B 21					
	22	-48B 22					
	23	-48B 23					
	24	-48B 24					

* IF REQUIRED

DC POWER DISTRIBUTION

DWG SIZE C2 | ISSUE 14B

AT&T | SD-5D005-01 | SHEET 021

PRINTED IN U.S.A.

INFORMATION NOTES (CONT):

327. POWER DISTRIBUTION FRAME FUSE ASSIGNMENT LOG BOOK.

NO. 5 ESS FUSE ASSIGNMENTS

FUNC DES	FUSE NO.	AMP	CONNECTING CIRCUIT					
			SD DRAWING	IM	CABINET	UNIT	EQL	CKT

POWER DISTRIBUTION FRAME __________ DRAWING __________
FILTER/FUSE PANEL __________ BUS __________ PAGE __________

MAY BE USED IN A LOG BOOK IN EACH POWER DISTRIBUTION FRAME
AS A RECORD OF FUSE ASSIGNMENTS FOR THAT POWER DISTRIBUTION

DC POWER DISTRIBUTION		DWG SIZE C2	ISSUE 14B
AT&T	SD-5D005-01		SHEET 022

INFORMATION NOTES (CONT):

328. TYPICAL ASSIGNMENTS FOR THE COMMUNICATION MODULE MODEL 2 FOR SINGLE FABRIC. JSD020A-1 BAYS 5 & 6, (BASIC BAYS), JSD020B-1 BAYS 3 & 4, 7 & 8, (GROWTH BAYS) (SEE NOTES 1 AND 2).

POWER DISTRIBUTING FRAME NUMBER ( )
FILTER/FUSE PANEL NUMBER ( )

A BUS				LOAD FRAME			
FUSE BLOCK	FUSE	FEEDER MNEMONIC	BAY	FEEDER ASSIGNMENT	L1 BUSY HOUR AMPERES (NORMAL BATTERY)	L2 CURRENT (AMPERES)	FEEDER SIZE
A1	1	-48A 01	5	-48V00	11.2	13.7	10
	2	-48A 02	5	-48V01	10.2	12.4	10
	3	-48A 03	5	-48V02	7.8	9.5	10
	4	-48A 04	5	-48V03	7.8	9.6	10
A2	1	-48A 05	5	-48V04	9.9	12.1	10
	2	-48A 06	5	-48V05	6.0	7.3	10
	3	-48A 07	4	-48V00	3.6	4.4	10
	4	-48A 08	4	-48V01	8.5	8.6	10
A3	1	-48A 09	4	-48V02	7.8	9.5	10
	2	-48A 10	4	-48V03	7.8	9.6	10
	3	-48A 11	4	-48V04	9.9	12.1	10
	4	-48A 12	4	-48V05	6.0	7.3	10
A4	1	-48A 13	3	-48V00	3.6	4.4	10
	2	-48A 14	3	-48V01	8.5	8.6	10
	3	-48A 15	3	-48V02	7.8	9.5	10
	4	-48A 16	3	-48V03	7.8	9.6	10
A5	1	-48A 17	3	-48V04	9.9	12.1	10
	2	-48A 18	3	-48V05	6.0	7.3	10
	3	-48A 19					
	4	-48A 20					
A6	1	-48A 21					
	2	-48A 22					
	3	-48A 23					
	4	-48A 24					

B BUS				LOAD FRAME			
FUSE BLOCK	FUSE	FEEDER MNEMONIC	BAY	FEEDER ASSIGNMENT	L1 BUSY HOUR AMPERES (NORMAL BATTERY)	L2 CURRENT (AMPERES)	FEEDER SIZE
B1	1	-48B 01	6	-48V10	11.2	13.7	10
	2	-48B 02	6	-48V11	10.2	12.4	10
	3	-48B 03	6	-48V12	7.8	9.5	10
	4	-48B 04	6	-48V13	7.8	9.6	10
B2	1	-48B 05	6	-48V14	9.9	12.1	10
	2	-48B 06	6	-48V15	6.0	7.3	10
	3	-48B 07	7	-48V10	3.6	4.4	10
	4	-48B 08	7	-48V11	8.5	8.6	10
B3	1	-48B 09	7	-48V12	7.8	9.5	10
	2	-48B 10	7	-48V13	7.8	9.6	10
	3	-48B 11	7	-48V14	9.9	12.1	10
	4	-48B 12	7	-48V15	6.0	7.3	10
B4	1	-48B 13	8	-48V10	3.6	4.4	10
	2	-48B 14	8	-48V11	8.5	8.6	10
	3	-48B 15	8	-48V12	7.8	9.5	10
	4	-48B 16	8	-48V13	7.8	9.6	10
B5	1	-48B 17	8	-48V14	9.9	12.1	10
	2	-48B 18	8	-48V15	6.0	7.3	10
	3	-48B 19					
	4	-48B 20					
B6	1	-48B 21					
	2	-48B 22					
	3	-48B 23					
	4	-48B 24					

329. TYPICAL ASSIGNMENTS FOR THE COMMUNICATION MODULE MODEL 2, BASIC, DUAL FABRIC JSD020A-1, BAYS 5 & 6 (SEE NOTES 1-3).

POWER DISTRIBUTING FRAME NUMBER ( )
FILTER/FUSE PANEL NUMBER ( )

A BUS				LOAD FRAME			
FUSE BLOCK	FUSE	FEEDER MNEMONIC	BAY	FEEDER ASSIGNMENT	L1 BUSY HOUR AMPERES (NORMAL BATTERY)	L2 CURRENT (AMPERES)	FEEDER SIZE
A1	1	-48A 01	5	-48V00	11.2	13.7	10
	2	-48A 02	5	-48V01	10.2	12.4	10
	3	-48A 03	5	-48V02	7.8	9.5	10
	4	-48A 04	5	-48V03	7.8	9.6	10
A2	1	-48A 05	5	-48V04	9.9	12.1	10
	2	-48A 06	5	-48V05	6.0	7.3	10
	3	-48A 07					
	4	-48A 08					
A3	1	-48A 09					
	2	-48A 10					
	3	-48A 11					
	4	-48A 12					
A4	1	-48A 13					
	2	-48A 14					
	3	-48A 15					
	4	-48A 16					
A5	1	-48A 17					
	2	-48A 18					
	3	-48A 19					
	4	-48A 20					
A6	1	-48A 21					
	2	-48A 22					
	3	-48A 23					
	4	-48A 24					

B BUS				LOAD FRAME			
FUSE BLOCK	FUSE	FEEDER MNEMONIC	BAY	FEEDER ASSIGNMENT	L1 BUSY HOUR AMPERES (NORMAL BATTERY)	L2 CURRENT (AMPERES)	FEEDER SIZE
B1	1	-48B 01	6	-48V10	11.2	13.7	10
	2	-48B 02	6	-48V11	10.2	12.4	10
	3	-48B 03	6	-48V12	7.8	9.5	10
	4	-48B 04	6	-48V13	7.8	9.6	10
B2	1	-48B 05	6	-48V14	9.9	12.1	10
	2	-48B 06	6	-48V15	6.0	7.3	10
	3	-48B 07					
	4	-48B 08					
B3	1	-48B 09					
	2	-48B 10					
	3	-48B 11					
	4	-48B 12					
B4	1	-48B 13					
	2	-48B 14					
	3	-48B 15					
	4	-48B 16					
B5	1	-48B 17					
	2	-48B 18					
	3	-48B 19					
	4	-48B 20					
B6	1	-48B 21					
	2	-48B 22					
	3	-48B 23					
	4	-48B 24					

330. TYPICAL ASSIGNMENTS FOR THE COMMUNICATIONS MODULE MODEL 2, GROWTH JSD020B-1, BAYS 8-4 & 7-11, DUAL FABRIC (SEE NOTES 1-4).

POWER DISTRIBUTING FRAME NUMBER ( )
FILTER/FUSE PANEL NUMBER ( )

A BUS				LOAD FRAME			
FUSE BLOCK	FUSE	FEEDER MNEMONIC	BAY	FEEDER ASSIGNMENT	L1 BUSY HOUR AMPERES (NORMAL BATTERY)	L2 CURRENT (AMPERES)	FEEDER SIZE
A1	1	-48A 01	8	-48V00	3.6	4.4	10
	2	-48A 02	8	-48V01	8.5	8.6	10
	3	-48A 03	8	-48V02	7.8	9.5	10
	4	-48A 04	8	-48V03	7.8	9.6	10
A2	1	-48A 05	8	-48V04	9.9	12.1	10
	2	-48A 06	8	-48V05	6.0	7.3	10
	3	-48A 07					
	4	-48A 08					
A3	1	-48A 09					
	2	-48A 10					
	3	-48A 11					
	4	-48A 12					
A4	1	-48A 13					
	2	-48A 14					
	3	-48A 15					
	4	-48A 16					
A5	1	-48A 17					
	2	-48A 18					
	3	-48A 19					
	4	-48A 20					
A6	1	-48A 21					
	2	-48A 22					
	3	-48A 23					
	4	-48A 24					

B BUS				LOAD FRAME			
FUSE BLOCK	FUSE	FEEDER MNEMONIC	BAY	FEEDER ASSIGNMENT	L1 BUSY HOUR AMPERES (NORMAL BATTERY)	L2 CURRENT (AMPERES)	FEEDER SIZE
B1	1	-48B 01	11	-48V10	3.6	4.4	10
	2	-48B 02	11	-48V11	8.5	8.6	10
	3	-48B 03	11	-48V12	7.8	9.5	10
	4	-48B 04	11	-48V13	7.8	9.6	10
B2	1	-48B 05	11	-48V14	9.9	12.1	10
	2	-48B 06	11	-48V15	6.0	7.3	10
	3	-48B 07					
	4	-48B 08					
B3	1	-48B 09					
	2	-48B 10					
	3	-48B 11					
	4	-48B 12					
B4	1	-48B 13					
	2	-48B 14					
	3	-48B 15					
	4	-48B 16					
B5	1	-48B 17					
	2	-48B 18					
	3	-48B 19					
	4	-48B 20					
B6	1	-48B 21					
	2	-48B 22					
	3	-48B 23					
	4	-48B 24					

NOTES:

1. DRAINS ARE ESTIMATED FOR FULLY EQUIPPED BAYS (WORST CASE), AND MAXIMUM NUMBER OF SWITCHING MODULES.
2. USE ANY CONVENIENT AVAILABLE FEEDERS IN ANY P.D. FOR ASSIGNMENTS: FEEDERS FOR GROWTH DO NOT NEED TO BE RESERVED.
3. ASSIGNMENTS FOR GROWTH BAYS MAY BE COMBINED IN THE SAME P.D. PANEL USED FOR THE BASIC BAY.
4. LOADS MAY BE ASSIGNED TO MORE THAN ONE P.D. FRAME IF CONVENIENT.

DC POWER DISTRIBUTION

CAD SIZE	ISSUE
C2	14B

AT&T	SD-SD005-01	SHEET
		023

INFORMATION NOTES (CONT)

338. TYPICAL ASSIGNMENTS FOR THE COMMUNICATION MODULE MODEL 2, GROWTH JSD0286-1, BAYS 0-4 & 7-11, DUAL FABRIC (SEE NOTES 1-4). (CONT)

POWER DISTRIBUTING FRAME NUMBER ( )
FILTER/FUSE PANEL NUMBER ( )

A BUS								
				LOAD FRAME				
FUSE BLOCK	FUSE	FEEDER MNEMONIC		BAY	FEEDER ASSIGNMENT	L1 BUSY HOUR AMPERES (NORMAL BATTERY)	L2 CURRENT (AMPERES)	FEEDER SIZE
A1	1	-48A	#1	4	-48V00	3.6	4.4	18
	2	-48A	#2	4	-48V01	8.5	8.6	18
	3	-48A	#3	4	-48V02	7.8	9.6	18
	4	-48A	#4	4	-48V03	7.8	9.6	18
A2	1	-48A	#5	4	-48V04	9.9	12.1	18
	2	-48A	#6	4	-48V05	6.8	7.3	18
	3	-48A	#7	3	-48V00	3.6	4.4	18
	4	-48A	#8	3	-48V01	8.5	8.6	18
A3	1	-48A	#9	3	-48V02	7.8	9.6	18
	2	-48A	10	3	-48V03	7.8	9.6	18
	3	-48A	11	3	-48V04	9.9	12.1	18
	4	-48A	12	3	-48V05	6.8	7.3	18
A4	1	-48A	13	2	-48V00	3.6	4.4	18
	2	-48A	14	2	-48V01	8.5	8.6	18
	3	-48A	15	2	-48V02	7.8	9.6	18
	4	-48A	16	2	-48V03	7.8	9.6	18
A5	1	-48A	17	2	-48V04	9.9	12.1	18
	2	-48A	18	2	-48V05	6.8	7.3	18
	3	-48A	19	1	-48V00	3.6	4.4	18
	4	-48A	20	1	-48V01	8.5	8.6	18
A6	1	-48A	21	1	-48V02	7.8	9.6	18
	2	-48A	22	1	-48V03	7.8	9.6	18
	3	-48A	23	1	-48V04	9.9	12.1	18
	4	-48A	24	1	-48V05	6.8	7.3	18

B BUS								
				LOAD FRAME				
FUSE BLOCK	FUSE	FEEDER MNEMONIC		BAY	FEEDER ASSIGNMENT	L1 BUSY HOUR AMPERES (NORMAL BATTERY)	L2 CURRENT (AMPERES)	FEEDER SIZE
B1	1	-48B	#1	7	-48V10	3.6	4.4	18
	2	-48B	#2	7	-48V11	8.5	8.6	18
	3	-48B	#3	7	-48V12	7.8	9.6	18
	4	-48B	#4	7	-48V13	7.8	9.6	18
B2	1	-48B	#5	7	-48V14	9.9	12.1	18
	2	-48B	#6	7	-48V15	6.8	7.3	18
	3	-48B	#7	8	-48V10	3.6	4.4	18
	4	-48B	#8	8	-48V11	8.5	8.6	18
B3	1	-48B	#9	8	-48V12	7.8	9.6	18
	2	-48B	10	8	-48V13	7.8	9.6	18
	3	-48B	11	8	-48V14	9.9	12.1	18
	4	-48B	12	8	-48V15	6.8	7.3	18
B4	1	-48B	13	9	-48V10	3.6	4.4	18
	2	-48B	14	9	-48V11	8.5	8.6	18
	3	-48B	15	9	-48V12	7.8	9.6	18
	4	-48B	16	9	-48V13	7.8	9.6	18
B5	1	-48B	17	9	-48V14	9.9	12.1	18
	2	-48B	18	9	-48V15	6.8	7.3	18
	3	-48B	19	10	-48V10	3.6	4.4	18
	4	-48B	20	10	-48V11	8.5	8.6	18
B6	1	-48B	21	10	-48V12	7.8	9.6	18
	2	-48B	22	10	-48V13	7.8	9.6	18
	3	-48B	23	10	-48V14	9.9	12.1	18
	4	-48B	24	10	-48V15	6.8	7.3	18

NOTES:

1. DRAINS ARE ESTIMATED FOR FULLY-EQUIPPED BAYS (WORST CASE), AND MAXIMUM NUMBER OF SWITCHING MODULES.
2. USE ANY CONVENIENT AVAILABLE FEEDERS IN ANY P.D. FOR ASSIGNMENTS: FEEDERS FOR GROWTH DO NOT NEED TO BE RESERVED.
3. ASSIGNMENTS FOR GROWTH BAYS MAY BE COMBINED IN THE SAME P.D. PANEL USED FOR THE BASIC BAY.
4. LOADS MAY BE ASSIGNED TO MORE THAN ONE P.D. FRAME IS CONVENIENT.

INFORMATION NOTES (CONT)

331.

CABINET	MAX NO. OF FR PER OFFICE	BAY	EACH FEEDER SUPPLIES THESE CKTS			CKT CURRENT DRAIN IN AMPS		FILTER		FEEDER				TOTAL AMPS PER CABINET		MAXIMUM LOOP LENGTH FOR EACH FEEDER PR.
			NAME	CKT	%	LIST 1	LIST 2	TYPE	VOLT DROP	NUMBER	VOLT DROP	SIZE (AWG)	FUSE	LIST 1	LIST 2	
JSD0286-1 CM2 BASIC CABINET BAY 5 OR BAY 6	ONE BAY 5 AND ONE BAY 6	BUS 0 BAY 5 OR BUS 1 BAY 6	MSCU2	SD-50877-01	50	11.2	13.7	37	-	A OR B 0	.75	18	20	52.9	64.7	51
			MSPU3	SD-50879-01	50											
			FPC	SD-50878-01	100											
			PPC	SD-50878-01	100											
			FANA	SD-50881-01	17											
			CRCU	SD-50856-01	100	18.2	12.4	37	-	A OR B 1	.75	18	20			56
			NCLK	SD-50868-01	100											
			FANB	SD-50881-01	17											
			TMSU2-0	SD-50861-01	50	7.8	9.6	37	-	A OR B 2	.75	18	20			73
			FANC	SD-50881-01	17											
			TMSU2-1	SD-50861-01	50	7.8	9.6	37	-	A OR B 3	.75	18	20			73
			MSPU3	SD-50879-01	50											
			FANE	SD-50881-01	17											
			TMSU2-0	SD-50861-01	50	9.9	12.1	37	-	A OR B 4	.75	18	20			57
			TANF	SD-50881-01	17											
			TMSU2-1	SD-50861-01	50	6.8	7.3	37	-	A OR B 5	.75	18	20			95
			FANG	SD-50881-01	17											
JSD0286-1 CM2 GROWTH CABINET BAY 0,1, 2,3 OR 4 OR BAY 7,8, 9,10 OR 11	ONE BAY 0,1,2, 3 OR 4 AND ONE BAY 7,8,9, 10 OR 11	BUS 0 BAY 0,1 2,3 OR 4 OR BUS 1 BAY 7,8 9,10 OR 11	MSPU3	SD-50878-01	50	3.6	4.4	37	-	A OR B 0	.75	18	20	35.6	43.6	158
			FPC	SD-50878-01	100											
			PPC	SD-50878-01	100											
			FANA	SD-50881-01	17											
			FANB	SD-50881-01	17	8.5	8.6	37	-	A OR B 1	.75	18	20			1169
			TMSU2-0	SD-50861-01	50	7.8	9.6	37	-	A OR B 2	.75	18	20			73
			FANC	SD-50881-01	17											
			TMSU2-1	SD-50861-01	50	7.8	9.6	37	-	A OR B 3	.75	18	20			73
			MSPU3	SD-50878-01	50											
			FAND	SD-50881-01	17											
			TMSU2-0	SD-50861-01	50	9.9	12.1	37	-	A OR B 4	.75	18	20			57
			FANE	SD-50881-01	17											
			TMSU2-1	SD-50861-01	50	6.8	7.3	37	-	A OR B 5	.75	18	20 *			95
			FANF	SD-50881-01	17											

NOTES:

1. BECAUSE OF THE GROWTH PATTERN OF THE CM2, EITHER SINGLE OR DUAL FABRIC, WHEREBY CIRCUIT PACKS ARE ADDED IN VARIOUS EQUIPMENT UNITS THROUGHOUT ALL BAYS, CURRENT DRAINS ARE NOT GIVEN FOR EACH CIRCUIT IN THESE BAYS. THE TOTAL AMPERES PER CABINET ARE ESTIMATED MAXIMUM DRAINS FOR THE MAXIMUM NUMBER OF SWITCHING MODULES.

DC POWER DISTRIBUTION

DWG SIZE	ISSUE
C2	14B

AT&T	SD-50005-01	SHEET
		024

INFORMATION NOTES:

332.

RTN'S TO OTHER SPLICE PLATES DO NOT NEED TO BE CONNECTED TO THE GROUND WINDOW BUS BAR

RTN

-48V

SESS SWITCH

750 KCMIL EQUALIZER

1/0 LNI

TOLL

UN-GROUNDED POWER PLANT

-48V SPLICE PLATE

750 KCMIL

750 KCMIL

-48V SPLICE PLATE

#1/0

P.D. 0

#1/0

P.D. 1

#1/0

P.D. 2

REMOTED ESS GROUND WINDOW (NOT LOCATED IN SESS COMMUNITY)

-48

RTN

#1/0 MINIMUM REQUIRED BY SESS

C.O. GROUND BUS

OFFICE PRINCIPLE GROUND POINT

TOLL OR OTHER POWER-SHARING EQUIPMENT (POWER MUST COME VIA SESS GROUND WINDOW)

ACCEPTABLE TO CONNECT HERE, GROUND WINDOW LEADS SUCH AS:

#1/0 SAFETY WIRE FROM EACH P.D. CABINET
#6 SAFETY BOND WIRE
#16 GROUND WIRES FOR MSU, MMSU, DCTU, DLTU, AND DCLU

NOT ACCEPTABLE (MUST GO TO GROUND WINDOW):

#1/0 LNI GROUND WIRES
RC CONDUIT BONDS

NOT ALL FEEDERS FROM THE POWER PLANT TO SPLICE PLATES ARE SHOWN.

THIS DOES NOT NECESSARILY HAVE TO BE P.D. 0: IT CAN BE THE P.D. NEAREST TO THE POWER PLANT.

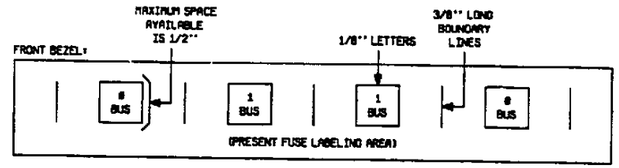
DC POWER DISTRIBUTION

DWG SIZE	ISSUE
C2	14B

AT&T	SD-50005-01	SHEET
		025

INFORMATION NOTES (CONT):

333. BECAUSE OF THE SPECIAL BUS CONFIGURATION REQUIRED FOR THE R.N. FUSE FILTER PANELS, THE FOLLOWING INFORMATION LABELS SHOULD BE INK-STAMPED (OR ADHESIVE LABELS) ON THE WHITE DESIGNATION PLATES INSIDE BOTH THE FRONT AND REAR BEZELS:



DC POWER DISTRIBUTION

DWG SIZE	ISSUE
C2	14B

AT&T	SD-50005-01	SHEET
		D26