

0 1 2 3 4 5 6 7 8 9

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* SHEETS WITH SUFFIX A WERE FORMERLY WITHOUT A SUFFIX LETTER.

OPTION INDEX			
APP OR WRG	RATED ON ISSUE	REF NOTES	LOCATION

DWG ISS	CD ISS	DATE ISSD	DRN	APP
1	1 APX -	1-7-93		
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4M	1 APX 3M	11-12-97		
5B	1 APX 4B	11-12-97		

SUPPORTING INFORMATION				SHEET INDEX NOTES
SYSTEM USED ON	DESIGN CONTROL	CATEGORY	NO.	
5ESS [®]	IH			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.

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AT13

**5ESS[®] SWITCHING SYSTEMS
SWITCHING MODULE 2000
APPLICATION SCHEMATIC**

DWG SIZE C2	ISSUE 5B
Lucent Technologies SD-5D518-01	
SHEET A1 41	

0 1 2 3 4 5 6 7 8 9

DESIGNATION MNEMONICS

DESIG	AS NO.	DEFINATION	DESIG	AS NO.	DEFINATION
SM2000	1	SWITCHING MODULE 2000	()T OR ()T1	10	TIP LEAD ASSOCIATED WITH LINE CIRCUIT
LTP CABINET	1	LINE TRUNK PERIPHERAL CABINET	()R OR ()R1	10	RING LEAD ASSOCIATED WITH LINE CIRCUIT
SMC CABINET	1	SWITCHING MODULE CONTROL CABINET	()TA	10	TIP LEAD ASSOCIATED WITH TEST CIRCUIT
MF/FU	2,3	MODULAR FUSE/FILTER UNIT	()RA	10	RING LEAD ASSOCIATED WITH TEST CIRCUIT
-48V	3	-48 VOLT POWER FEED	ISLU	11	INTEGRATED SERVICES LINE UNIT
-48VRTN	3	-48 VOLT POWER FEED RETURN	DPIDB	11	DIRECTLY CONNECTED PERIPHERAL INTERFACE DATA BUS
SMPU4	4,5	SWITCHING MODULE PROCESSOR UNIT MODEL 4	LIDB	11	LINE INTERFACE DATA BYUS
SMPU5	4,5	SWITCHING MODULE PROCESSOR UNIT MODEL 5	E	12	"E" SIGNALING LEAD ASSOCIATED TRUNK CIRCUIT
SCAN/ALM	4	SCAN/ALARM CABLE	ATUE	12	ANALOG TRUNK UNIT-EXPORT
MULT-CONN	4	MULTP-CONNECTION	M	12	"M" SIGNALING LEAD ASSOCIATED WITH TRUNK CIRCUIT
TSTU4	5	TIME SLOT INTERCHANGE UIT MODEL 4	S	12	"S" SIGNALING LEAD ASSOCIATED WITH TRUNK CIRCUIT
A-48V	5	"A" BUS -48 VOLT POWER FEED	SG	12	"SG" SIGNALING LEAD ASSOCIATED WITH TRUNK CIRCUIT
A-48VRTN	5	"A" BUS -48 VOLT POWER FEED RETURN	PSU	13	PACKET SWITCH UNIT
B-48	5	"B" BUS -48 VOLT POWER FEED	PB	13	PACKET BUS LEAD
B-48VRTN	5	"B" BUS -48 VOLT POWER FEED RETURN	DLTUE	14	DIGITAL LINE TRUNK UNIT-EXPORT
CM2	5	COMMUNICATION MODULE MODEL 2	CLK	14	DIGITAL CLOCK SIGNAL LEAD
0,1 NCT-R	5	0 & 1 NETWORK CONTROL AND TIMING LINK-RECEIVE	DFI	14	DIGITAL FACILITIES INTERFACE
0,1 NCT-T	5	0 & 1 NETWORK CONTROL AND TIMING LINK-TRANSMIT	DLTU2	15	DIGITAL LINE TRUNK UNIT MODEL 2
0,1 PIDB	5	0 & 1 PERIPHERAL INTERFACE DATA BUS	DXS	15	DIGITAL CROSS-CONNECT SIGNALING
0,1 PICB	5	0 & 1 PERIPHERAL INTERFACE CONTROL BUS	ECSU	16	ECHO CANCELLER SIGNALING UNIT
C/D	5	CONTROL/DISPLAY	PWR ST	15	POWER START
MCP	5	MESSAGING, CENTRAL PROCESSOR INTERVENTION, AND PUMP	DCTU	17	DIRECTLY CONNECTED TEST UNIT
STCL	5	SERIAL TIMESLOT INTERCHANGE CONTROL LINK	PMU	17	PULSE METERING UNIT
DSU3	6	DIGITAL SERVICE UNIT MODE 3	PPMU	18	PERIODIC PULSE METERING UNIT
DSU2	7	DIGITAL SERVICE UNIT 2	ISLU2	19	INTEGRATED SERVICES LINE UNIT MODEL 2
LDSF	7	LOCAL DIGITAL SERVICE FUNCTION	DF	19	DISTRIBUTIONS FRAME
RAF	7	RECORDED ANNOUNCEMENT FEATURE	SERV GRP()	20	SERVICE GROUP ()
GDSUE	8	GLOBAL DIGITAL SERVICE UNIT-EXPORT	DCLU	20	DIGITAL CARRIER LINE UNIT
MMSU	9	MODULAR METALLIC SERVICE UNIT	IDCU	21	INTEGRATED DIGITAL CARRIER UNIT
MTIB	9	METALLIC TEST INTERFACE BUS	A OR B IN	21	"A" OR "B" CIRCUITS IN TO UNIT
MTB	9	METALLIC TEST BUS	A OR B OUT	21	"A" OR "B" CIRCUIT OUT OF UNIT
()AR	9	RING LEAD ASSOCIATED WITH TRUNK CIRCUIT	CAB()	22	CABINET NUMBER "(XXX)"
()AT	9	TIP LEAD ASSOCIATED WITH TRUNK CIRCUIT	A OR B BUS	23	"A" OR "B" POWER FEED BUSES
LU3	10	LINE UNIT MODEL 3	RB	26	RING BUS
			XCDU	27	EXTENDED CONTROL & DATA UNIT

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SWITCHING MODULE 2000 APPLICATION SCHEMATIC	DWG SIZE	ISSUE
	C2	5B
Lucent Technologies	SD-5D518-01	SHEET A2

AS 1

SM2000 CABINET
ED-5D741-70

NOTE:

1. THIS BASIC CABINET IS USED FOR EITHER LTP OR SMC ARRANGEMENTS EQUIPPED WITH MOUNTING BRACKETS AS REQUIRED.

DESCRIPTION

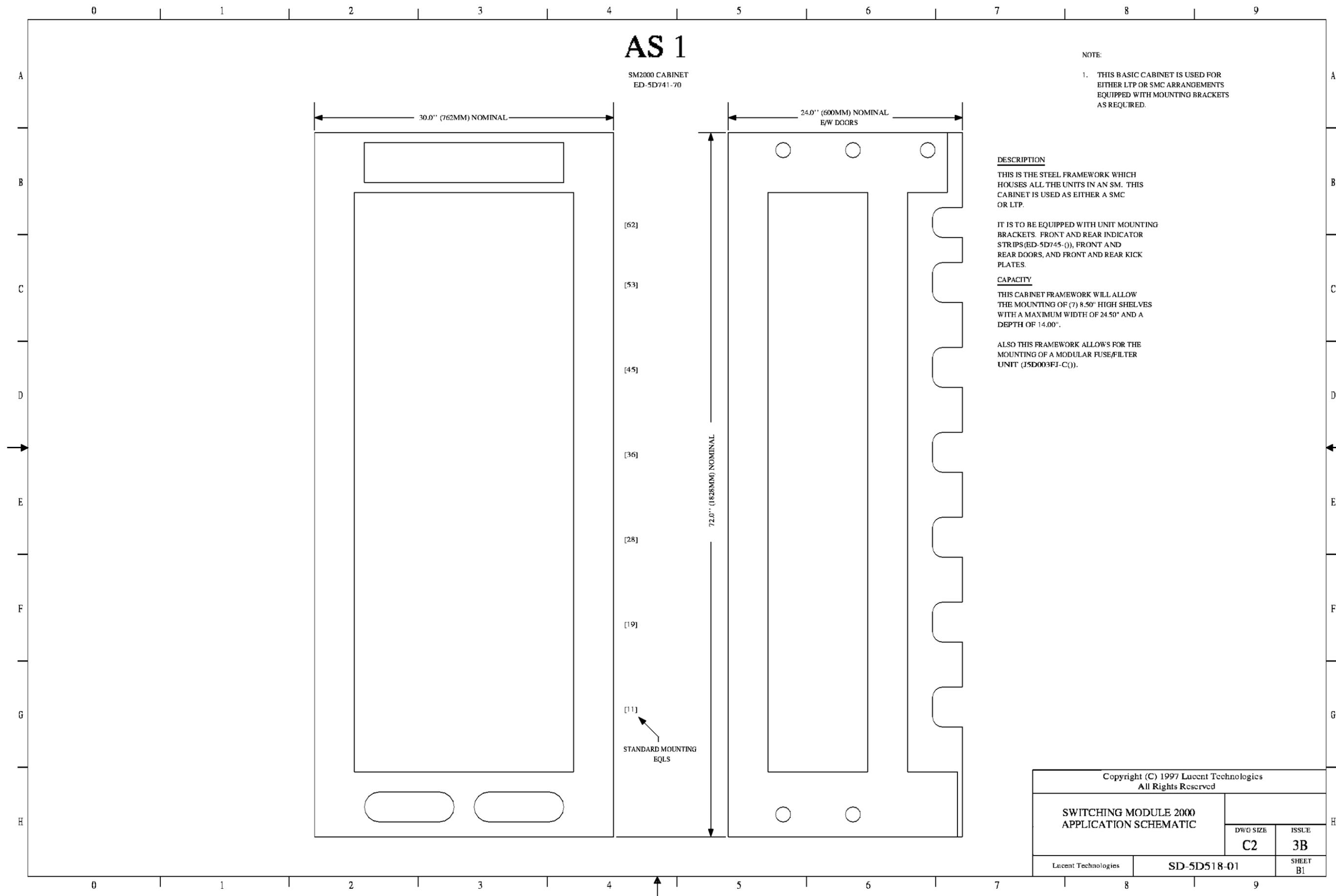
THIS IS THE STEEL FRAMEWORK WHICH HOUSES ALL THE UNITS IN AN SM. THIS CABINET IS USED AS EITHER A SMC OR LTP.

IT IS TO BE EQUIPPED WITH UNIT MOUNTING BRACKETS, FRONT AND REAR INDICATOR STRIPS (ED-5D745-0), FRONT AND REAR DOORS, AND FRONT AND REAR KICK PLATES.

CAPACITY

THIS CABINET FRAMEWORK WILL ALLOW THE MOUNTING OF (7) 8.50" HIGH SHELVES WITH A MAXIMUM WIDTH OF 24.50" AND A DEPTH OF 14.00".

ALSO THIS FRAMEWORK ALLOWS FOR THE MOUNTING OF A MODULAR FUSE/FILTER UNIT (J5D003FJ-C()).



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SWITCHING MODULE 2000 APPLICATION SCHEMATIC	DWG SIZE	ISSUE
	C2	3B
Lucent Technologies	SD-5D518-01	SHEET B1

AS 1A

5ESS - 2000 GLOBAL FRONT ACCESS
CABLE (FAC) CABINET

NOTE:

1. THIS CABINET IS REQUIRED.

DESCRIPTION

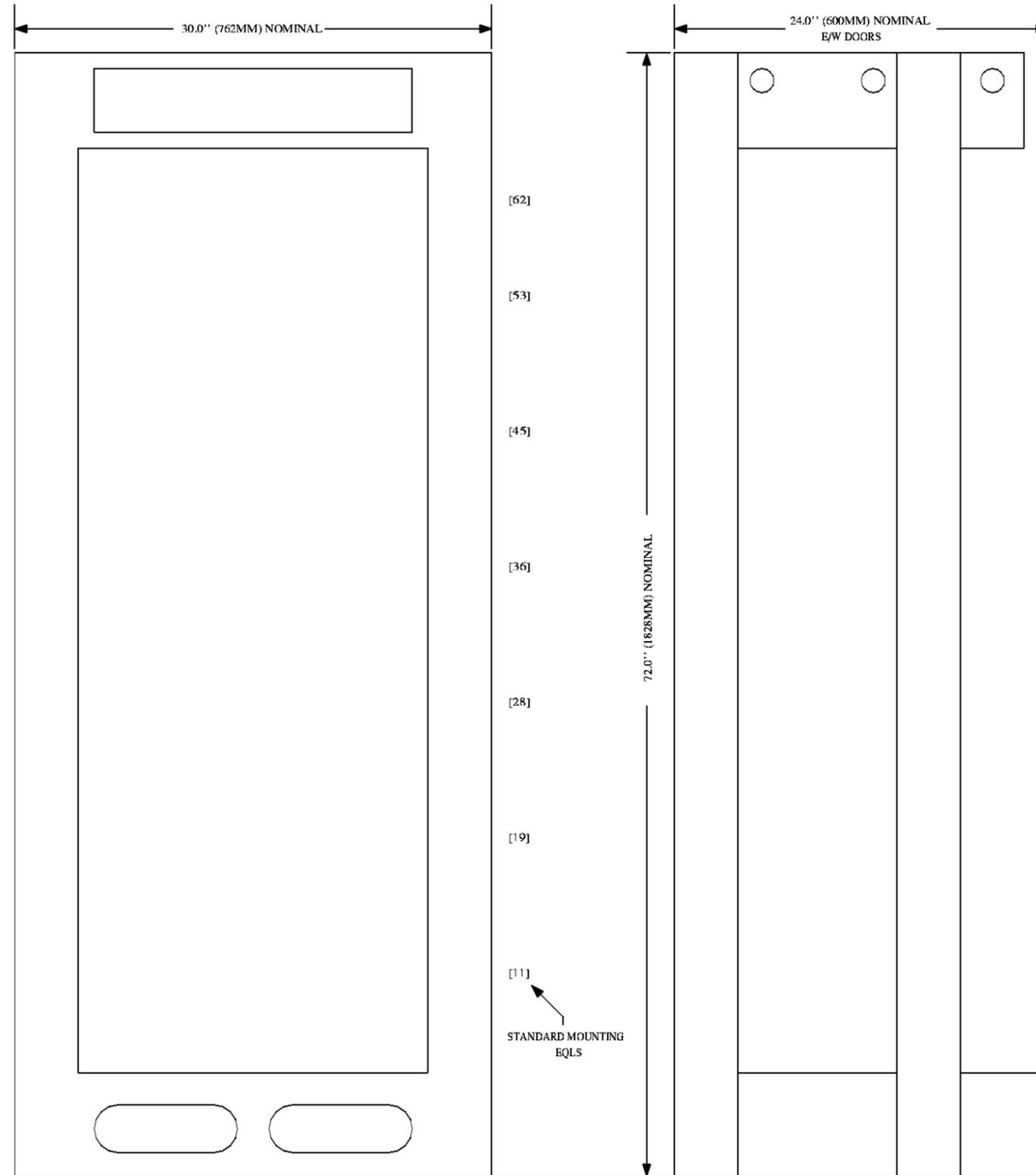
THIS IS THE STEEL FRAMEWORK WHICH
HOUSES AIU'S FOR SM2000

IT IS TO BE EQUIPPED WITH UNIT MOUNTING
GUIDES, FRONT INDICATOR STRIP (ED5D745-(-)),
OPTIONAL REAR INDICATOR STRIP (ED5D745-(-)),
AND FRONT AND REAR KICK PLATES.

CAPACITY

THIS CABINET FRAMEWORK WILL ALLOW
THE MOUNTING OF (7) 8.50" HIGH SHELVES
WITH A MAXIMUM WIDTH OF 24.50" AND A
DEPTH OF 14.00".

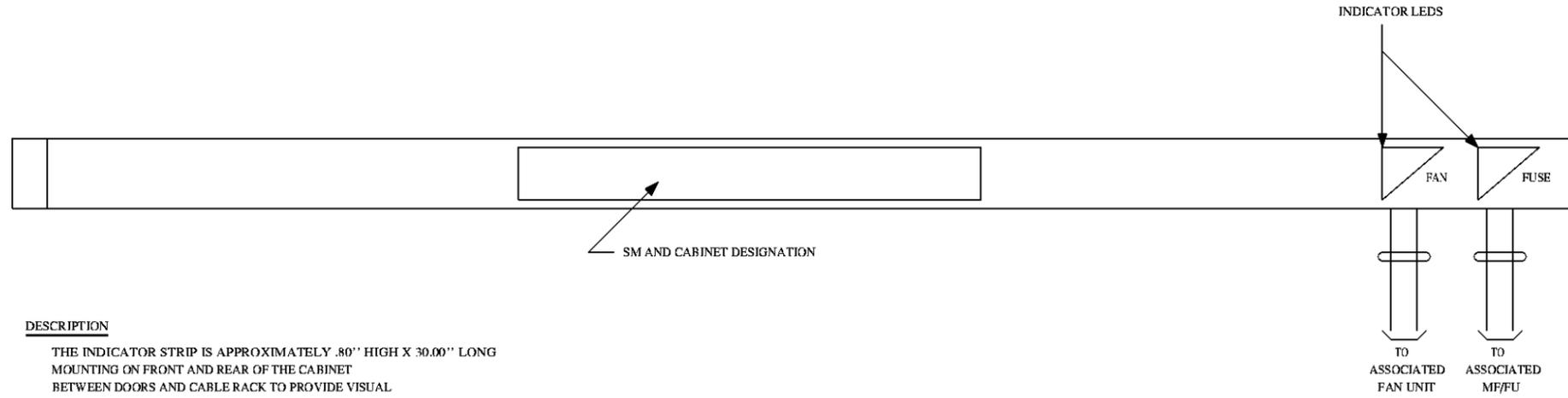
ALSO THIS FRAMEWORK ALLOWS FOR THE
MOUNTING OF A MODULAR FUSE/FILTER
UNIT (J5D003FJ-(-)).



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SWITCHING MODULE 2000 APPLICATION SCHEMATIC		
DWG SIZE C2	ISSUE 5B	
Lucent Technologies	SD-5D518-01	SHEET B1A

AS 2

INDICATOR STRIP
ED-5D745-70



DESCRIPTION

THE INDICATOR STRIP IS APPROXIMATELY .80" HIGH X 30.00" LONG
MOUNTING ON FRONT AND REAR OF THE CABINET
BETWEEN DOORS AND CABLE RACK TO PROVIDE VISUAL
CABINET DESIGNATIONS AND INDICATION.
THE INDICATOR STRIP IS ORDERED AS PART OF THE
CABINET DRAWING ED-5D741-{}.

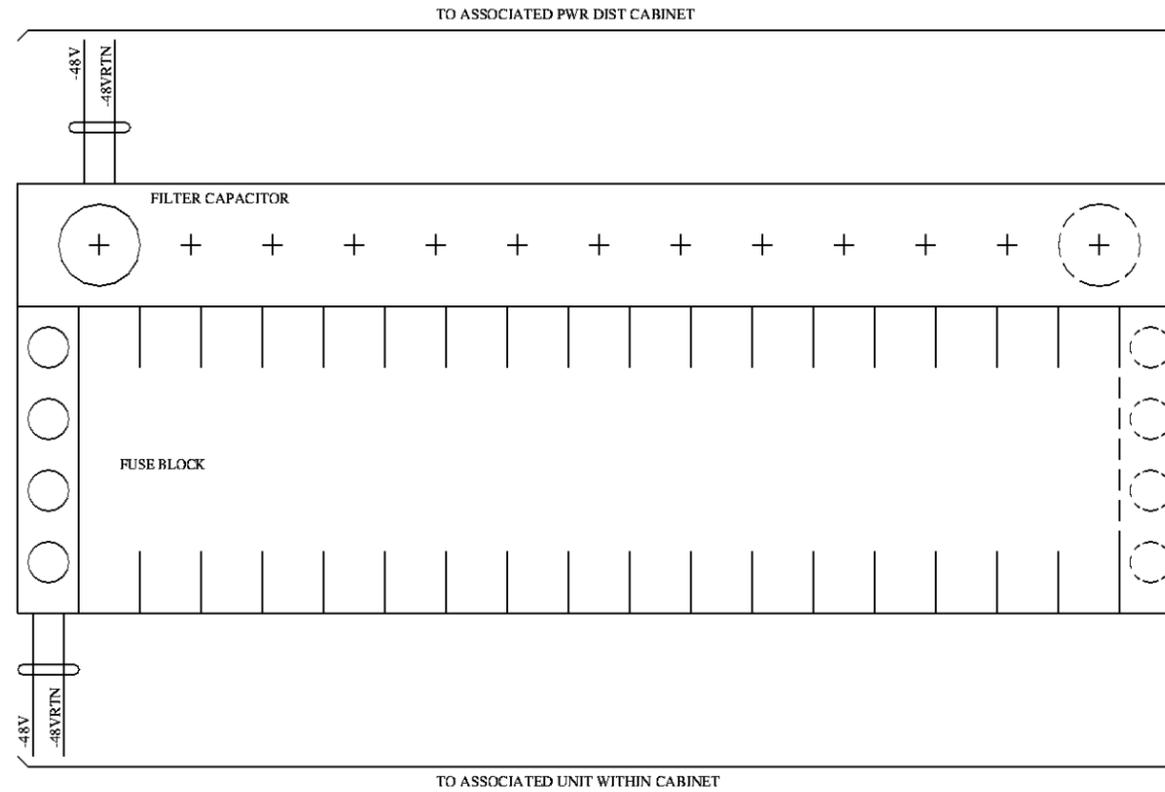
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SWITCHING MODULE 2000 APPLICATION SCHEMATIC		
DWG SIZE C2	ISSUE 3B	
Lucent Technologies	SD-5D518-01	SHEET B2

AS 3

MODULAR FUSE/FILTER UNIT (MF/FU)
SD-5D190-01
J5D003FJ-()

NOTE:

1. WHEN THE BELTLINE OPTION IS REQUIRED IN A LTP CABINET THE OPTIONAL TEL & TTY JACK PANEL IS MOUNTED IN AN UNUSED FUSE BLOCK POSITION. (SEE EQPT NOTE: 208)



DESCRIPTION

THIS MF/FU IS A SINGLE SHELF WHICH PROVIDES FUSES AND FILTER CAPACITORS AT -48V TO POWER VARIOUS UNITS IN A SM CABINET.

CAPACITY

- *THIS MF/FU PROVIDES SPACE FOR:
- * (12) FEEDER FILTER CAPACITORS
- * (18) FUSE BLOCK POSITIONS AND (1) ALARM CARD HOUSING
- * EACH FUSE BLOCK HAS POSITIONS FOR (4) FUSES
- * EACH ALARM CARD HOUSING HAS SPACE FOR (2) ALM CARD OR (1) TEL AND TTY JACK PANEL
- EACH UNIT IS ENGINEERABLE TO SATISFY THE VARYING NEEDS OF SM CABINETS.

FUSING REQUIREMENTS

THE MF/FU IS FUSE AT THE PWR DIST CABINET AS REQUIRED

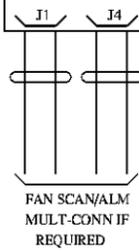
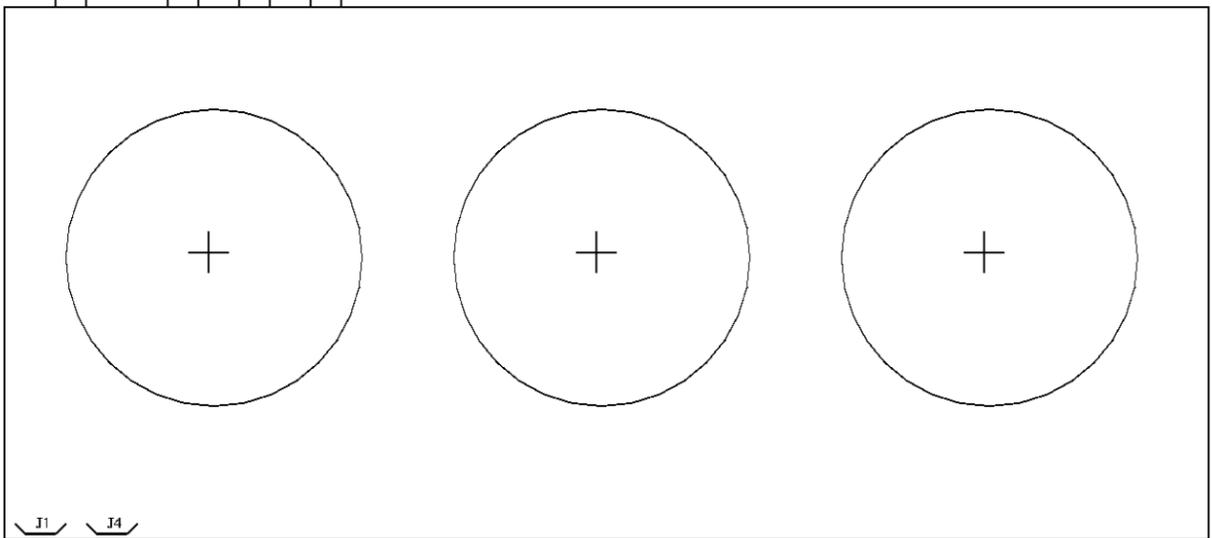
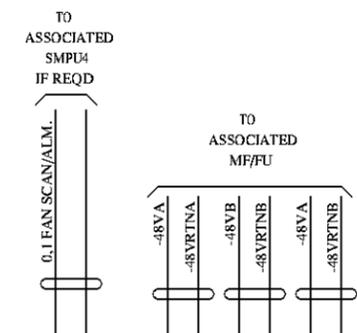
SPECIFIC MOUNTING REQUIREMENTS

THIS UNIT MOUNTS IN THE UPPER MOST LOCATION IN A CABINET (EQL 069).

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SWITCHING MODULE 2000 APPLICATION SCHEMATIC	DWG SIZE	ISSUE
	C2	3B
Lucent Technologies	SD-5D518-01	SHEET B3

AS 4A

6 FAN BI-DIRECTIONAL FAN UNIT
SD-5D168-02
J5D003FH(-)



DESCRIPTION

THIS FAN UNIT IS A SINGLE 8.50" HIGH X 24.50" WIDE SHELF WHICH PROVIDES FILTER FORCED AIR COOLING IN TWO DIRECTIONS (ABOVE AND BELOW UNIT).

CAPACITY

THIS FAN UNIT UNDER MAXIMUM OPERATING CONDITIONS COOLS AT A RATE OF 300 LIN.FT/MIN ROOM AMBIENT.

FUSING REQUIREMENTS

THIS FAN UNIT REQUIRES (3) 3 AMP FUSES SPLIT OVER TWO POWER BUSES.

SPECIFIC MOUNTING REQUIREMENTS

THIS FAN UNIT IS MEANT TO MOUNT IN THE CENTER OF THE CABINET (EQL 036). THERE WILL BE SOME CABINET ARRANGEMENTS WHERE THE FAN UNIT WILL MOUNT ABOVE OR BELOW THE CABINET CENTER.

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SWITCHING MODULE 2000 APPLICATION SCHEMATIC	DWG SIZE	ISSUE
	C2	3B
Lucent Technologies	SD-5D518-01	SHEET B4

AS 4B

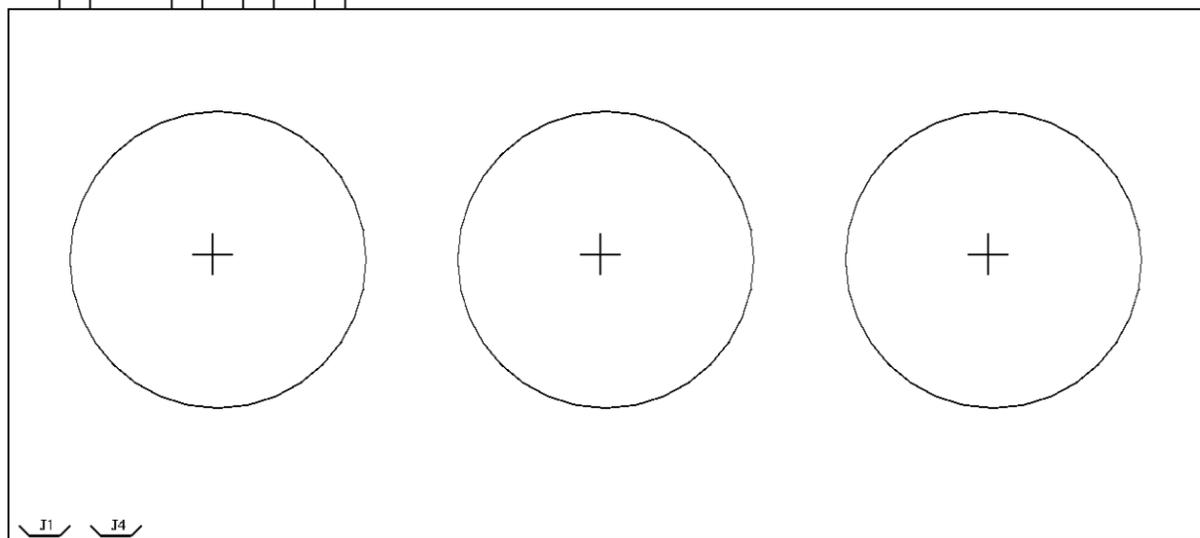
3 FAN UNIT
SD-5D019-02
J5D003BE(-)

TO
ASSOCIATED
SMPU4
IF REQD

0.1 FAN SCAN/ALM.

TO
ASSOCIATED
MF/FU

-48V A
-48V TNA
-48V B
-48V TNB
-48V A
-48V TNB



DESCRIPTION

THIS FAN UNIT IS A SINGLE 8.50" HIGH X 23.00" WIDE SHELF WHICH PROVIDES FILTER FORCED AIR COOLING

CAPACITY

THIS FAN UNIT UNDER MAXIMUM OPERATING CONDITIONS COOLS AT A RATE OF 200 LIN.FT/MIN ROOM AMBIENT.

FUSING REQUIREMENTS

THIS FAN UNIT REQUIRES (3) 3 AMP FUSES SPLIT OVER TWO POWER BUSES.

SPECIFIC MOUNTING REQUIREMENTS

THIS FAN UNIT IS MEANT TO MOUNT IN THE BOTTOM OF A LTP (EQL 11) BLOWING AIR UP THROUGH THE CABINET.

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SWITCHING MODULE 2000 APPLICATION SCHEMATIC	DWG SIZE	ISSUE
	C2	3B
Lucent Technologies	SD-5D518-01	SHEET B5

AS 4F

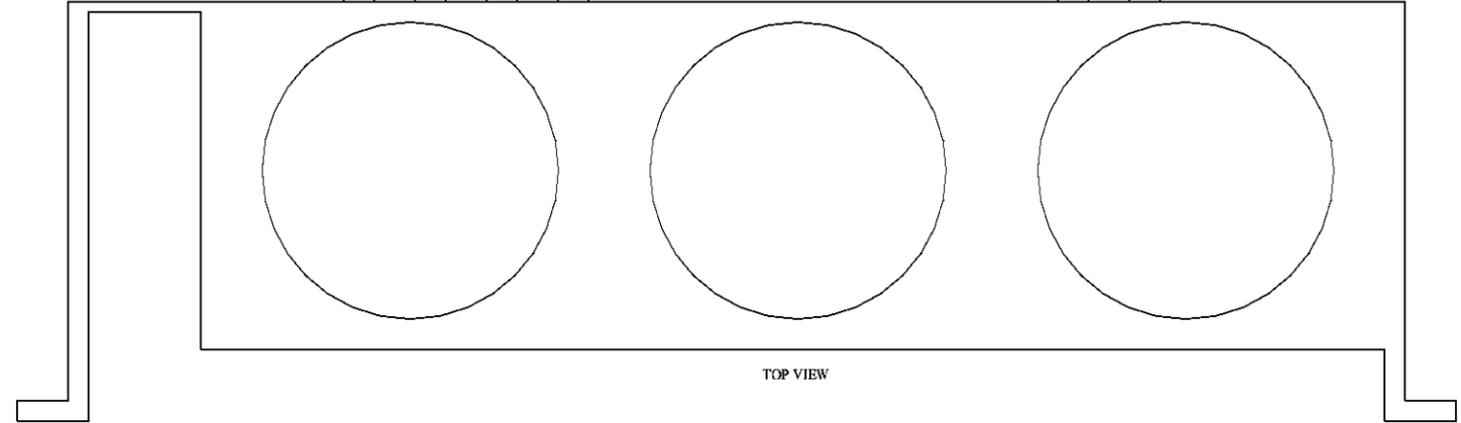
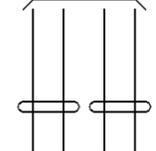
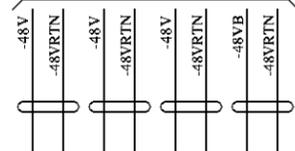
3 FAN AIU FAN UNIT
SD-5D546-01
J5D003FT-()

NOTE:

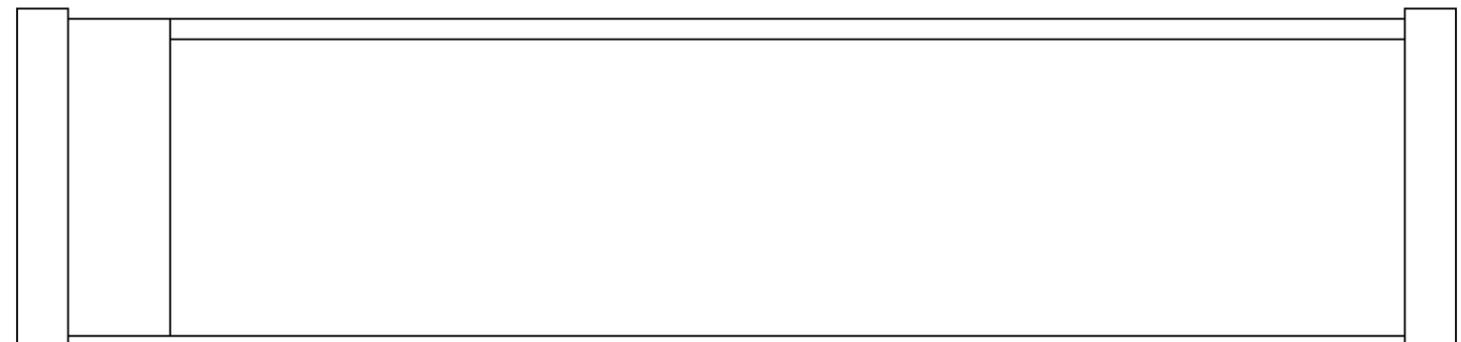
1. THIS FAN UNIT IS USED FOR A (3) SHELF AIU CONFIGURATION. (STANDARD 2000 CABINET)

TO ASSOCIATED MFPU

FAN SCAN/ALM MULT



TOP VIEW



FRONT VIEW

DESCRIPTION

THIS FAN UNIT IS A SINGLE 8.50" HIGH X 24.50" X 8.62" DEEP SHELF WHICH PROVIDES FILTER FORCED AIR COOLING

CAPACITY

THIS FAN UNIT UNDER MAXIMUM OPERATING CONDITIONS COOLS AT A RATE OF 300 LIN.FT/MIN ROOM AMBIENT.

FUSING REQUIREMENTS

THIS FAN UNIT REQUIRES (4) 3 AMP FUSES SPLIT OVER TWO POWER BUSES.

SPECIFIC MOUNTING REQUIREMENTS

THIS FAN UNIT IS MEANT TO MOUNT AT THE BOTTOM OF THE CABINET (VEQL 11)

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SWITCHING MODULE 2000 APPLICATION SCHEMATIC	DWG SIZE	ISSUE
	C2	3B
Lucent Technologies	SD-5D518-01	SHEET B5A

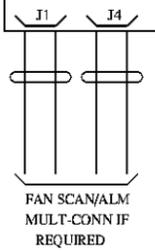
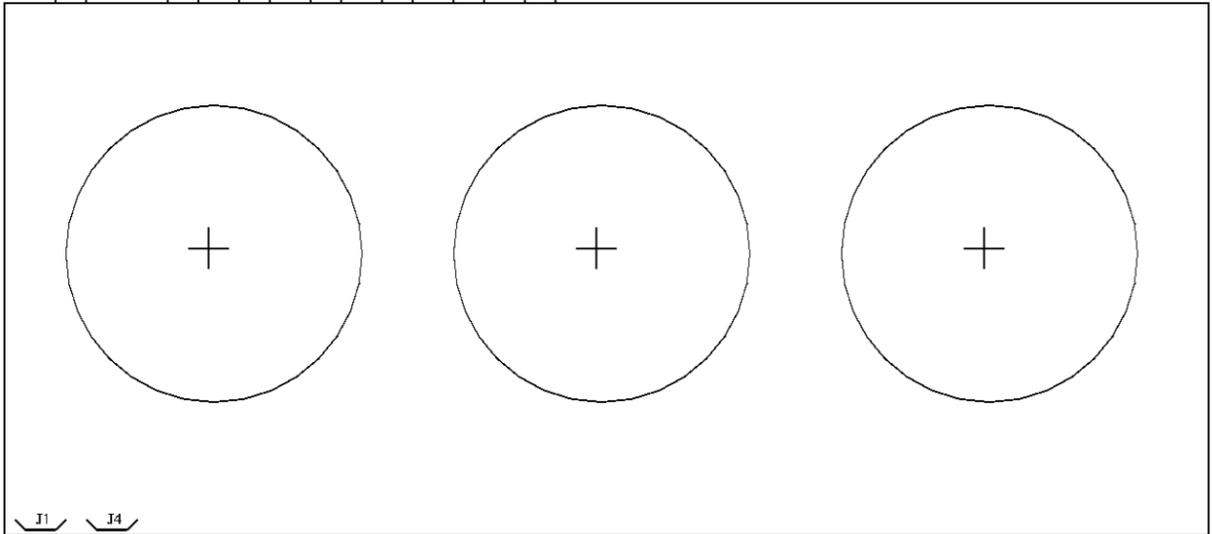
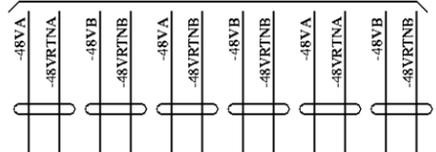
AS 4C

6 FAN UNIT
SD-5D081-01
J5D003BN-()

TO
ASSOCIATED
SMPU4
IF REQD



TO
ASSOCIATED
MF/FU



DESCRIPTION

THIS FAN UNIT IS A SINGLE 8.50" HIGH X 23.00" WIDE SHELF WHICH PROVIDES FILTER FORCED AIR COOLING

CAPACITY

THIS FAN UNIT UNDER MAXIMUM OPERATING CONDITIONS COOLS AT A RATE OF 300 LIN.FT/MIN ROOM AMBIENT.

FUSING REQUIREMENTS

THIS FAN UNIT REQUIRES (6) 3 AMP FUSES SPLIT OVER TWO POWER BUSES.

SPECIFIC MOUNTING REQUIREMENTS

THIS FAN UNIT IS MEANT TO MOUNT IN THE BOTTOM OF A LTP (EQL 11) BLOWING AIR UP THROUGH THE CABINET.

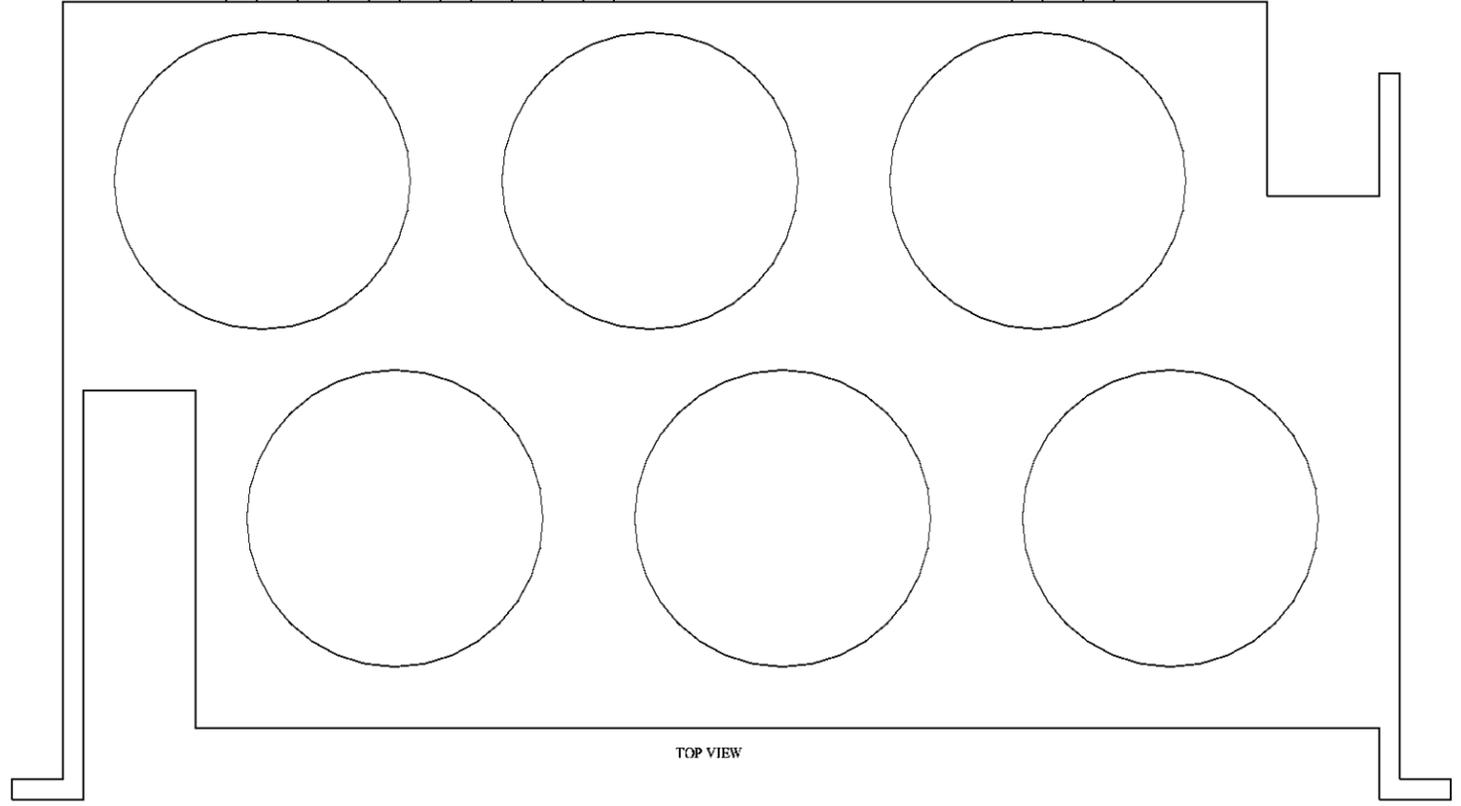
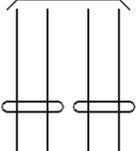
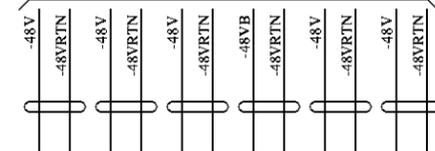
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SWITCHING MODULE 2000 APPLICATION SCHEMATIC	DWG SIZE	ISSUE
	C2	3B
Lucent Technologies	SD-5D518-01	SHEET B6

AS 4E

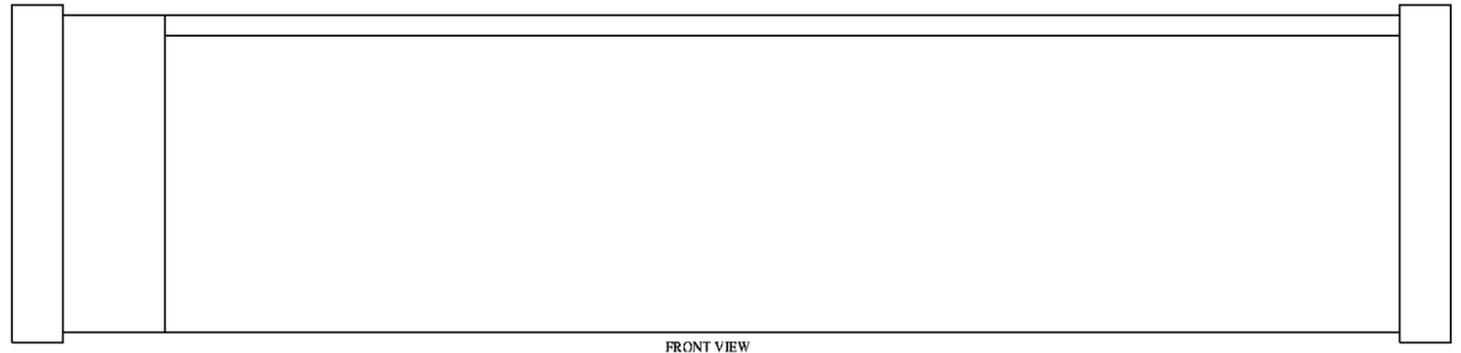
6 FAN AIU FAN UNIT
SD-5D546-01
J5D003FT-()

TO
ASSOCIATED
MFPU

FAN SCAN/ALM MULT



TOP VIEW



FRONT VIEW

DESCRIPTION

THIS FAN UNIT IS A SINGLE 8.50" HIGH X 24.50" WIDE X 17.50" DEEP SHELF WHICH PROVIDES UP-WARD FORCED AIR COOLING

CAPACITY

THIS FAN UNIT UNDER MAXIMUM OPERATING CONDITIONS COOLS AT A RATE OF 300 LIN.FT/MIN ROOM AMBIENT.

FUSING REQUIREMENTS

THIS FAN UNIT REQUIRES (7) 3 AMP FUSES SPLIT OVER TWO POWER BUSES.

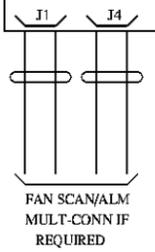
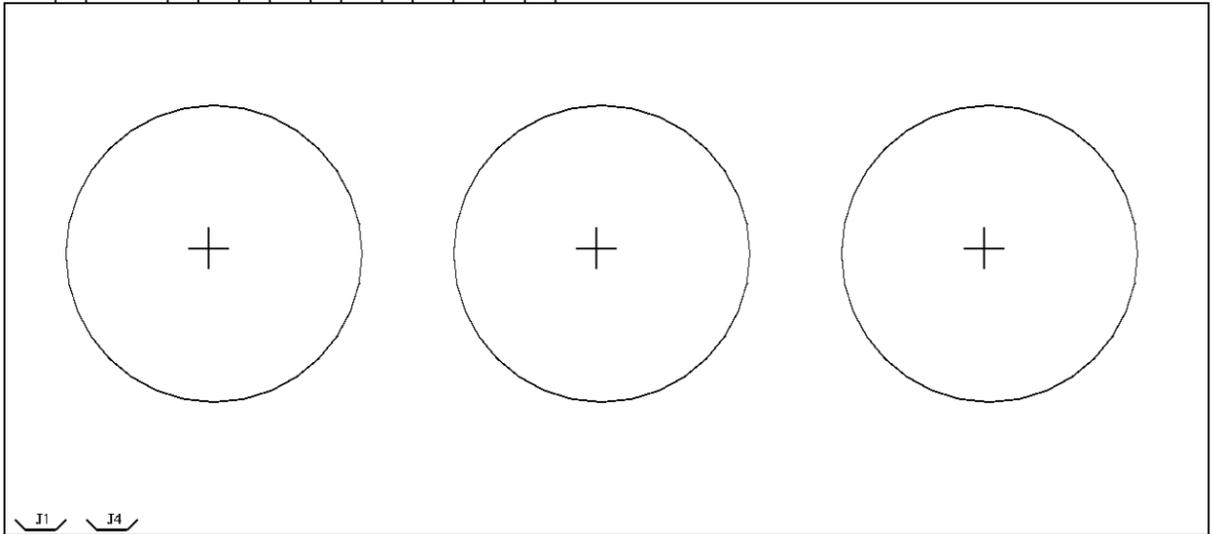
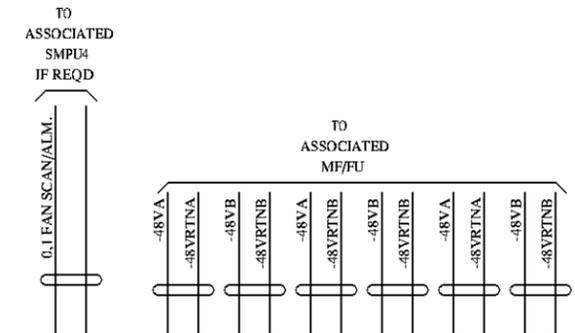
SPECIFIC MOUNTING REQUIREMENTS

THIS FAN UNIT IS MEANT TO MOUNT AT THE BOTTOM OF THE CABINET (VEQL 11)

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SWITCHING MODULE 2000 APPLICATION SCHEMATIC	DWG SIZE	ISSUE
	C2	3B
Lucent Technologies	SD-5D518-01	SHEET B6A

AS 4D

6 FAN EXHAUST FAN UNIT
SD-5D162-01
J5D003BW-()



DESCRIPTION

THIS FAN UNIT IS A SINGLE 8.50" HIGH X 23.00" WIDE SHELF WHICH PROVIDES FILTER FORCED AIR COOLING

CAPACITY

THIS FAN UNIT UNDER MAXIMUM OPERATING CONDITIONS AND IN CONJUNCTION WITH A J5D003BN-() FAN UNIT COOLS AT A RATE OF 350 LIN.FT./MIN ROOM AMBIENT.

FUSING REQUIREMENTS

THIS FAN UNIT REQUIRES (6) 3 AMP FUSES SPLIT OVER TWO POWER BUSES.

SPECIFIC MOUNTING REQUIREMENTS

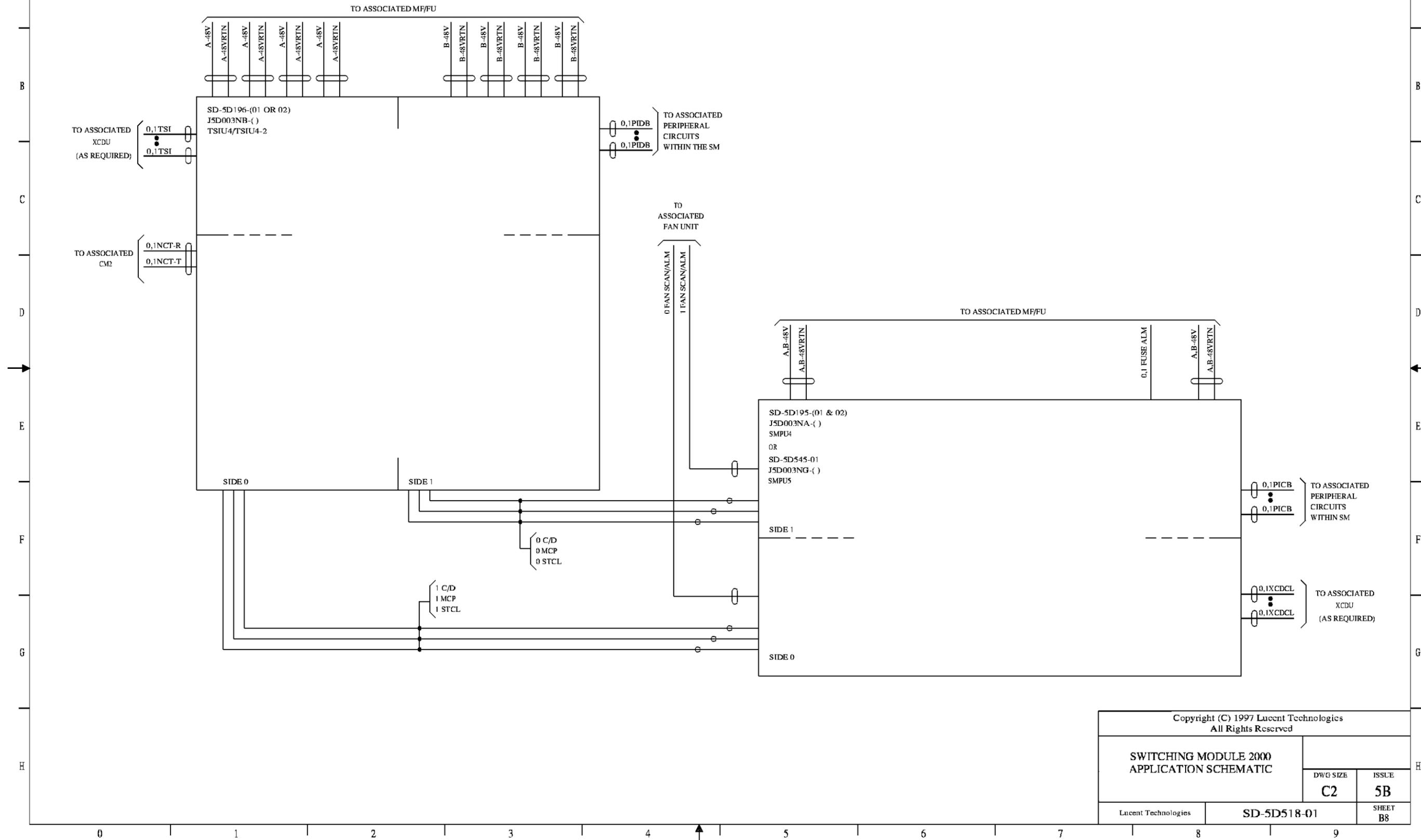
THIS FAN UNIT IS MEANT TO MOUNT IN THE TOP OF A LTP (EQL 62) CABINET WHEN A FIVE SHELF PSU IS EQUIPPED WITH PH3

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SWITCHING MODULE 2000 APPLICATION SCHEMATIC	DWG SIZE	ISSUE
	C2	3B
Lucent Technologies	SD-5D518-01	SHEET B7

PART OF AS 5

SWITCHING MODULE PROCESSOR UNIT MODEL 4 (SMPU4) OR MODEL 5 (SMPU5)

AND TIME SLOT INTERCHANGE UNIT MODEL 4 (TSIU4/TSIU4-2)



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SWITCHING MODULE 2000 APPLICATION SCHEMATIC		DWG SIZE C2
Lucent Technologies		ISSUE 5B
SD-5D518-01		SHEET B8

PART OF AS 5

SMPU4: DESCRIPTION
 SWITCHING MODULE PROCESSOR UNIT MODEL 4 IS A TWO SINGLE 8.50" HIGH X 23.00" LONG X 14.00" DEEP SHELF UNIT INTER-CONNECTED BY FLAT RIBBON CABLE.

CAPACITY
 THIS UNIT HAS SPACE FOR (4) MEMORY CIRCUIT PACKS AND (92) PICB PORTS PER SIDE.

FUSING REQUIREMENTS
 *STANDARD CONFIGURATION REQUIRES:
 (2) 12A FUSES PER SIDE AND (1)3A FUSE USE FOR A TEST SLOT.
 *AUTO POWER RECOVERY CONFIGURATION REQUIRES: (2) 15A FUSES PER SIDE AND (1)3A FUSE USE FOR A TEST SLOT.

SPECIFIC MOUNTING REQUIREMENTS
 THIS UNIT MOUNTS AT CABINET EQLS:
 SIDE "0" SHELF AT 019
 SIDE "1" SHELF AT 028
 THIS UNIT MUST MOUNT IN THE SAME CABINET AS ITS ASSOCIATED TSIU4/TSIU4-2.

TSIU4/TSIU4-2: DESCRIPTION
 TIME SLOT INTERCHANGE UNIT MODEL 4 IS A TWO SHELF UNIT ON A TRIPLE HIGH BACKPLANE:
 *ONE SHELF IS 17.00" HIGH X 24.50" LONG X 10.00" DEEP.
 *ONE SHELF IS 8.5" HIGH X 24.50" LONG X 10.00" DEEP.

CAPACITY
 THIS UNIT HAS SPACE FOR (4) TSIS CIRCUIT PACKS AND (144) PIDB PORTS PER SIDE.

FUSING REQUIREMENTS
 *STANDARD CONFIGURATION REQUIRES:
 (2) 15A FUSES PER SIDE AND
 (2) 7A FUSES PER SIDE
 *AUTO POWER RECOVERY CONFIGURATION REQUIRES: (2) 20A FUSES PER SIDE AND
 (2) 10A FUSES PER SIDE.

SPECIFIC MOUNTING REQUIREMENTS
 THIS UNIT MOUNTS AT CABINET EQL: 045
 THIS UNIT MUST MOUNT IN SAME CABINET AS ITS ASSOCIATED SMPU4/SMPU5.

SMPU5: DESCRIPTION
 THE SWITCHING MODULE PROCESSOR UNIT MODEL 5 IS A TWO SHELF UNIT, EACH SHELF IS 8.50" HIGH X 23.00" LONG 14.00" DEEP, INTERCONNECTED BY FLAT RIBBON CABLE.

CAPACITY
 THIS UNIT CAN ACCOMODATE (2) MEMORY CIRCUIT PACKS AND (92) PICB PORTS PER SIDE. IT ALSO PROVIDES THE TONE DECODING, TONE GENERATION, TTF2 AND ISTF FUNCTIONS.

FUSING REQUIREMENTS
 *STANDARD CONFIGURATION REQUIRES:
 (2) 12A, (2) 10A AND (2) 3A FUSES.
 * AUTO POWER RECOVERY CONFIGURATION:
 (2) 15A,(2) 10A AND (2) 3A FUSES.

SPECIFIC MOUNTING REQUIREMENTS
 THIS UNIT MOUNTS AT CABINET EQLS:
 SIDE "0" SHELF AT 019
 SIDE "1" SHELF AT 028
 THIS UNIT MUST MOUNT IN THE SAME CABINET AS ITS ASSOCIATED TSIU4.

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SWITCHING MODULE 2000 APPLICATION SCHEMATIC	DWG SIZE	ISSUE
	C2	5B
Lucent Technologies	SD-5D518-01	SHEET B9

AS 6

DIGITAL SERVICE UNIT MODE 3 (DSU3)
SD-5D197-01
J5D003NC(-)

DESCRIPTION

THIS UNIT IS A SINGLE 8.50" HIGH SHELF WHICH PROVIDES SWITCHING SERVICES LIKE TONE GENERATOR AND DECODING.

CAPACITY

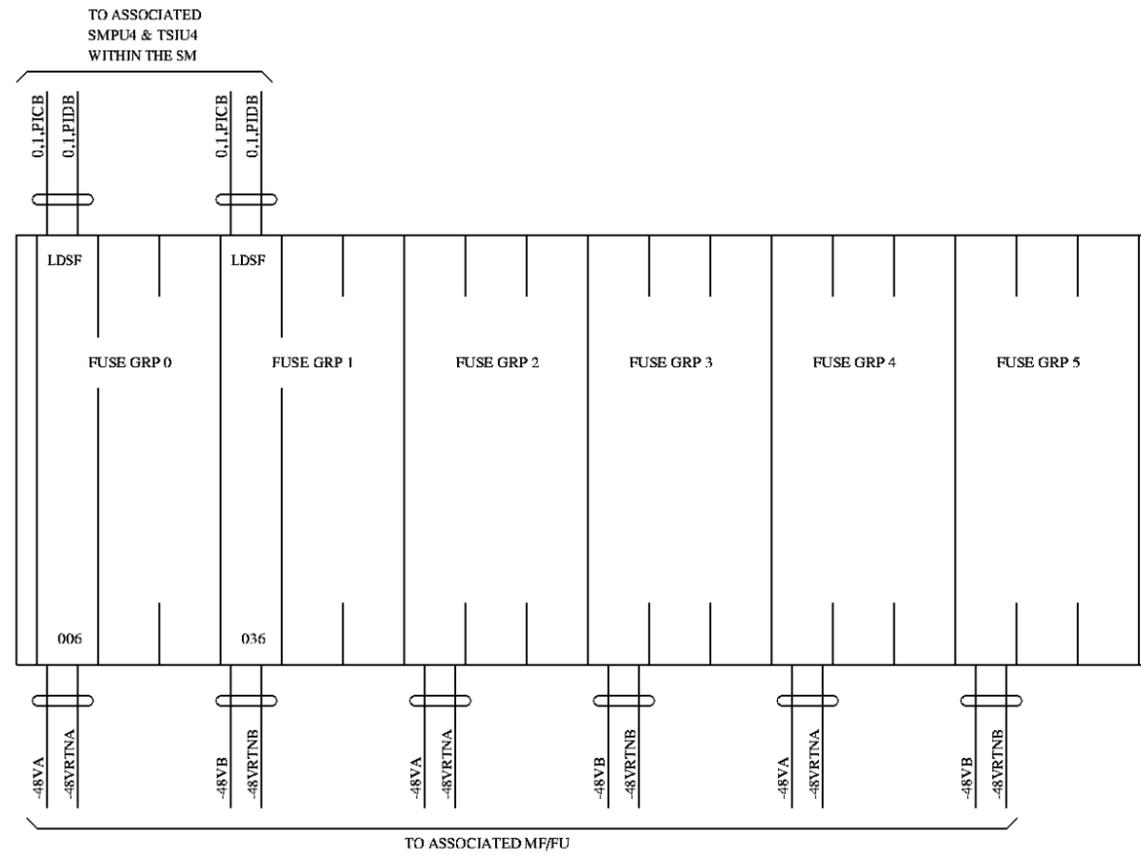
THIS UNIT HAS (6) FUSE GROUP WHICH CAN BE EQUIPPED WITH (3) CIRCUIT PACKS EACH-
1. LOCAL DIGITAL SERVICE FUNCTION IS FUSE GRP 0 & 1, EQLS 006 & 036.

FUSING REQUIREMENTS

THIS UNIT REQUIRES A 10 AMP FUSE FOR EACH FUSE GROUP EQUIPPED

SPECIFIC MOUNTING REQUIREMENTS

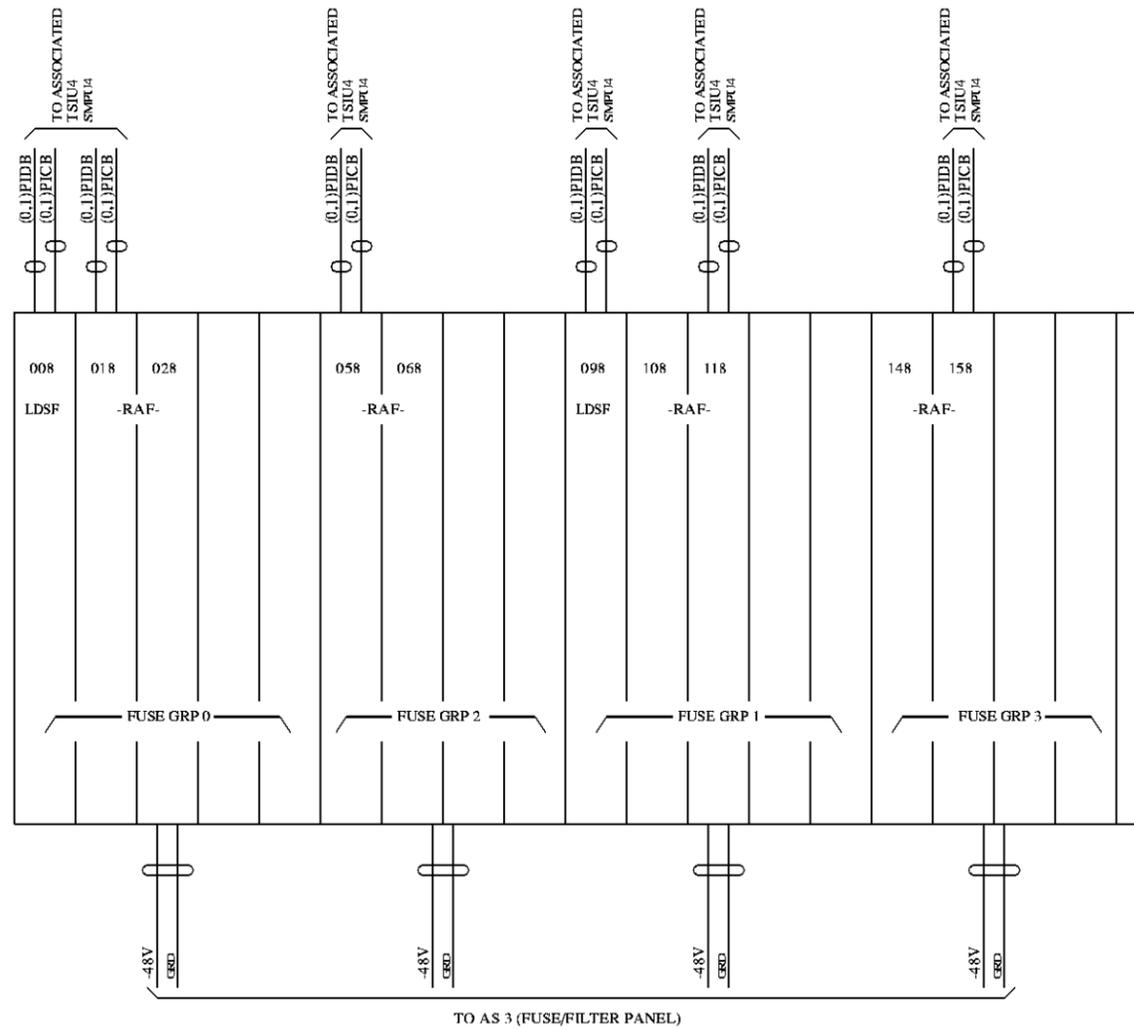
IN AN SMC CONFIGURATION THIS UNIT MOUNTS IN CABINET EQL 011



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SWITCHING MODULE 2000 APPLICATION SCHEMATIC	DWG SIZE	ISSUE
	C2	3B
Lucent Technologies	SD-5D518-01	SHEET B10

AS 7

DIGITAL SERVICE UNIT 2 (DSU2)
J5D003EA-()



DESCRIPTION

DSU2 IS AN 8-1/2 INCH HIGH SHELF WHICH PROVIDES SWITCHING SERVICES SUCH AS TONE GENERATION AND TOUCH-TONE DECODING.

DSU2 ALSO ALLOWS OPTIONAL FEATURES LIKE RECORDED ANNOUNCEMENT (RAF).

CAPACITY

EACH DSU2 HAS (4) SERVICE GROUPS WHICH CAN BE EQUIPPED AS FOLLOWS:

1. LDSU FUNCTION SERVICE GROUPS 0 & 1.
2. RAF OPTION A FOR OSPS CAN BE EQUIPPED IN SERVICE GROUP 0, 1, 2, & 3 (4 MAX., 2 MIN.).

FUSING REQUIREMENTS

SEE SD-5D092-01.

SPECIFIC MOUNTING REQUIREMENTS

1. DSU2 MOUNTS IN THE SMC CABINET DIRECTLY ABOVE THE MCTU.
2. A SECOND DSU2 MAY BE MOUNTED WITHIN AN SM TO PROVIDE ADDITIONAL RAF CAPACITY. THIS SECOND DSU IS TREATED LIKE ANY OTHER PERIPHERAL.

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SWITCHING MODULE 2000 APPLICATION SCHEMATIC		DWG SIZE C2
Lucent Technologies	SD-5D518-01	ISSUE 3B SHEET B11

AS 8

GLOBAL DIGITAL SERVICE UNIT-EXPORT
(GDSUE)

DESCRIPTION

EACH GLOBAL DSU-EXPORT IS AN 8-1/2 INCH HIGH SHELF WHICH PROVIDES THE UNIVERSAL CONFERENCE AND TRANSMISSION TEST FACILITY FUNCTIONS.

CAPACITY

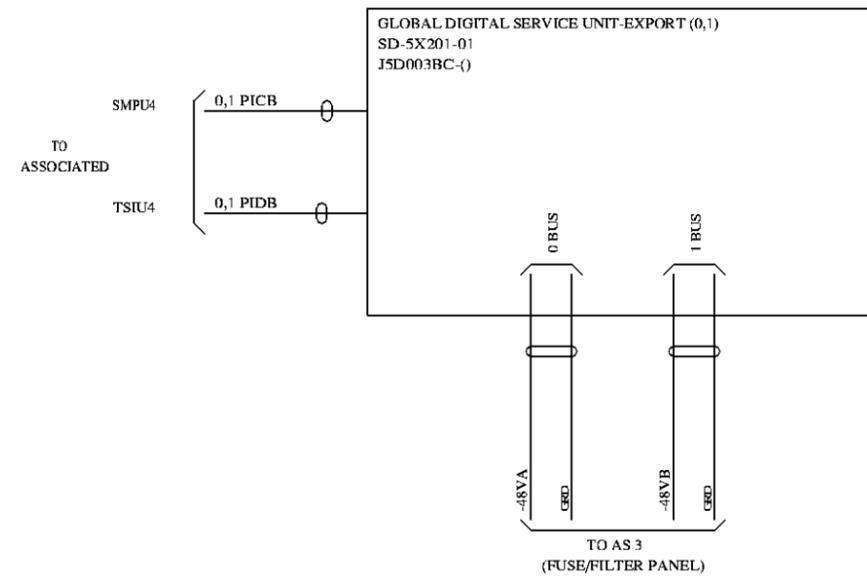
EACH GLOBAL DSU MAY CONTAIN A MAXIMUM OF 10 CONFERENCE CIRCUITS PER SERVICE GROUP OR 2 TRANSMISSION TEST FUNCTIONS PER SERVICE GROUP OR 1 TRANSMISSION TEST FUNCTION AND 8 CONFERENCE CIRCUITS PER SERVICE GROUP.

FUSING REQUIREMENT

SEE SD-5X201-01.

SPECIFIC MOUNTING REQUIREMENTS

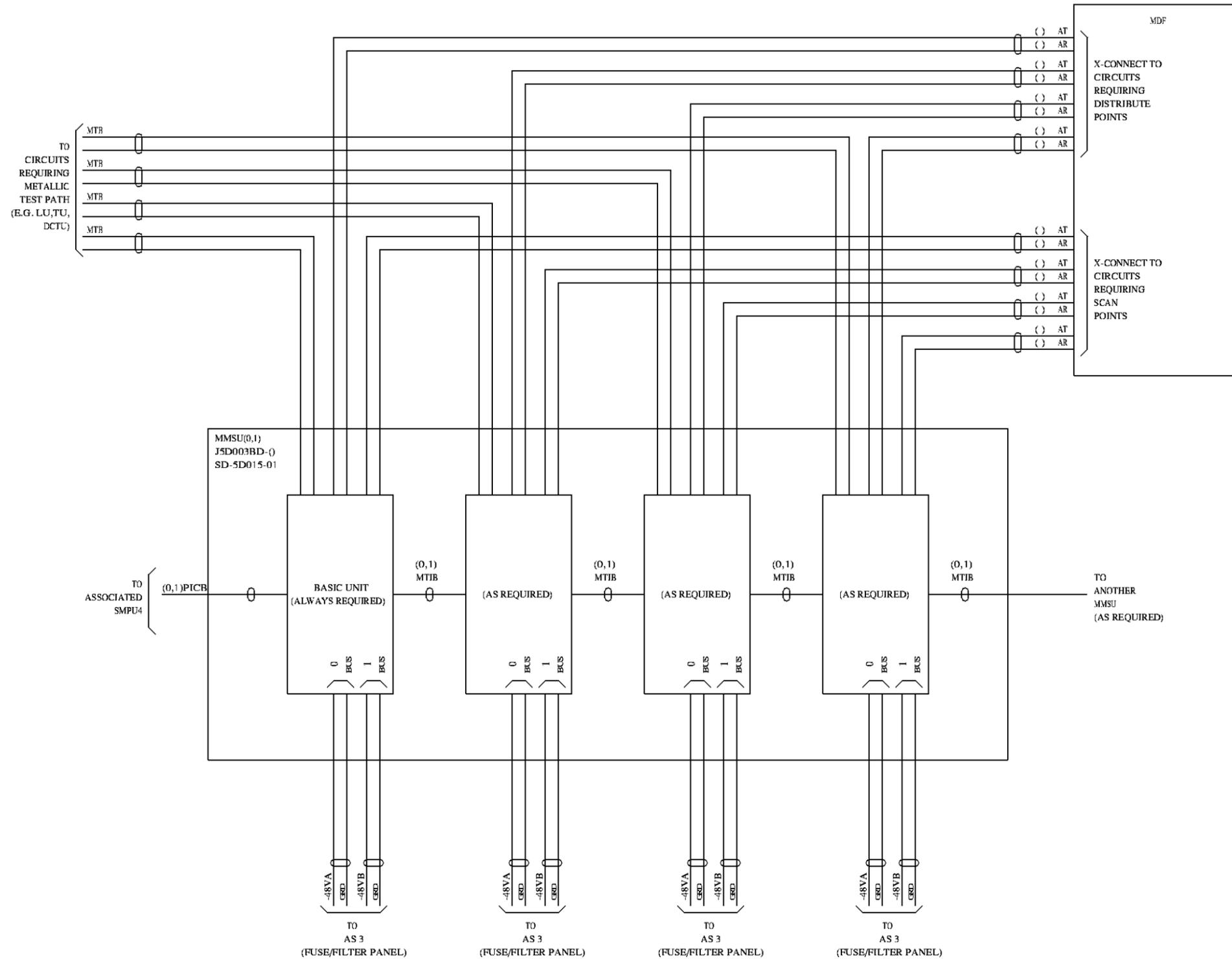
ANY AVAILABLE POSITION IN AN LTP CABINET.



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SWITCHING MODULE 2000 APPLICATION SCHEMATIC		DWG SIZE C2
Lucent Technologies		ISSUE 3B
SD-5D518-01		SHEET B12

AS 9

MODULAR METALLIC SERVICE UNIT
(MMSU)



NOTE

1. THE MMSU WILL BE USED FOR EXPORT APPLICATION.

DESCRIPTION

EACH MODULAR METALLIC SERVICE UNIT (MMSU) CONSISTS OF ONE TO FOUR 8-1/2 INCH SHELVES. EACH SHELF CONTAINS 2 SERVICE GROUPS (0,1) WITH POWER. ONLY THE FIRST SHELF REQUIRES A DUPLICATED PICB. THIS UNIT IS ENGINEERED, AND THUS CAN BE EQUIPPED TO PROVIDE AUTOMATIC LINE INSULATION TESTING, GDX COMPENSATION, SCAN AND DISTRIBUTE, AND METALLIC ACCESS FUNCTIONS IN ANY COMBINATION. ONE METALLIC ACCESS CIRCUIT IS REQUIRED IN EACH SERVICE GROUP OF EACH SHELF FOR INTERCONNECTION OF MMSU SHELVES, AND FOR MMSU TO MMSU INTERCONNECTION. WHILE THE FIRST, OR BASIC, UNIT IS REQUIRED, THE SECOND THROUGH FOURTH SHELVES ARE GROWTH UNITS, EQUIPPED AS REQUIRED.

CAPACITY

SEE SD-5D007.

FUSING REQUIREMENT

SEE SD-5D015 FOR FUSING REQUIREMENTS.

SPECIFIC MOUNTING REQUIREMENTS

THE MMSU BASIC UNIT IS TO BE PLACED IN ONE OF THE LOWER THREE UNIT POSITIONS IN AN LTP CABINET, WITH GROWTH UNITS IN ADJACENT POSITIONS ABOVE THE BASIC UNIT.

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SWITCHING MODULE 2000 APPLICATION SCHEMATIC	DWG SIZE	ISSUE
	C2	3B
Lucent Technologies	SD-5D518-01	SHEET B13

AS 10

LINE UNIT MODEL 3
(LU3)

NOTES:

1. LINE UNIT MODEL 3 REQUIRES THAT ALL 14 FUSES BE ON THE SAME POWER FEEDER '0' OR '1' OF THE FUSE/FILTER UNIT (THUS BEING ON THE SAME POWER BUS 'A' OR 'B'). IN A GIVEN SM THE EVEN NUMBERED LU3'S ARE CONNECTED TO POWER BUS 'A' AND THE ODD NUMBERED LU3'S ARE CONNECTED TO POWER BUS 'B'.
2. THE SD-5D180-01 LINE UNIT AND THE SD-5D051-01, SD-5D052-01, SD-5D052-02, OR SD-5X205-01 LINE UNITS MAY BE EQUIPPED WITHIN ONE SWITCHING MODLLE (SM), WHICH IS POSSIBLE IN GROWTH SITUATIONS.
3. THE SD-5D180-01 LINE UNIT WILL BE USED FOR BOTH DOMESTIC AND EXPORT APPLICATIONS.

DESCRIPTION

EACH LINE UNIT MODEL 3 CONSISTS OF TWO 8-1/2 INCH HIGH SHELVES AND PROVIDES FOR TERMINATION OF UP TO 640 LINES. CONCENTRATION RATIOS OF 10:1, 8:1, 6:1 AND 4:1 ARE AVAILABLE.

CAPACITY

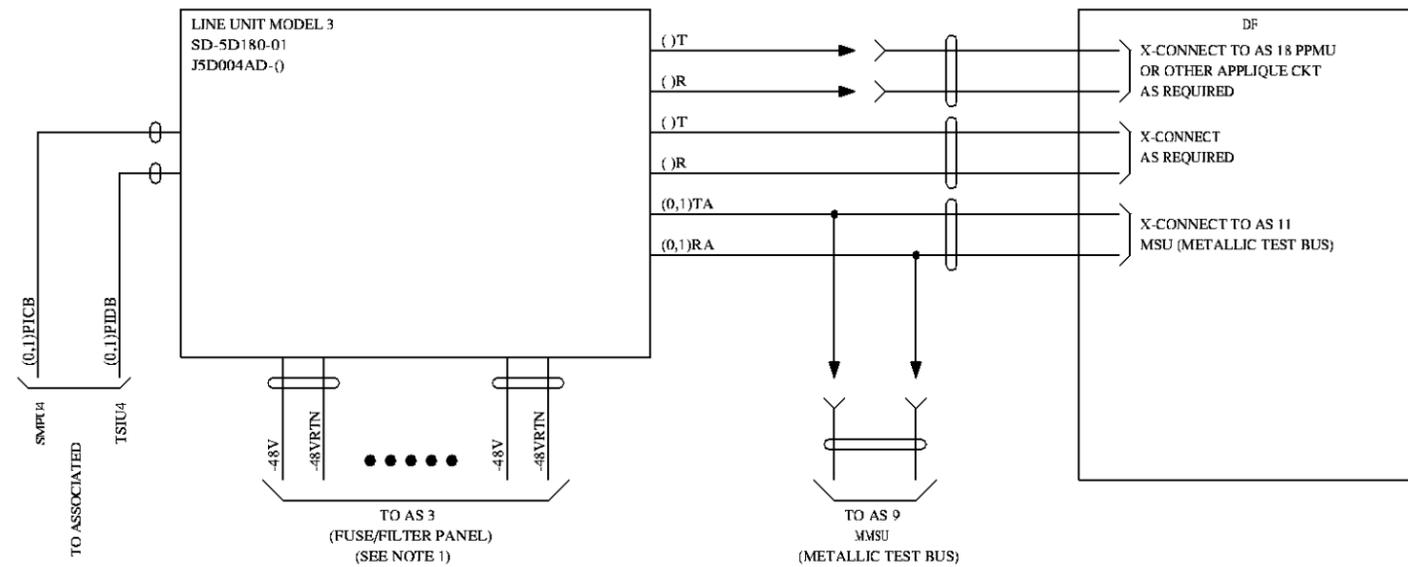
EACH LINE UNIT MODEL 3 (LU3) CAN TERMINATE UP TO 640 LINES AT A 10:1 LCR, OR 512 LINES AT AN 8:1 LCR, OR 384 LINES AT A 6:1 LCR, OR 256 LINES AT A 4:1 LCR.

FUSING REQUIREMENTS

SEE SD-5D180-01 FOR LINE UNIT MODEL 3 FUSING REQUIREMENTS.

SPECIFIC MOUNTING REQUIREMENTS

ANY AVAILABLE POSITION IN AN LTP CABINET (TWO CONSECUTIVE SHELVES).



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SWITCHING MODULE 2000 APPLICATION SCHEMATIC	DWG SIZE	ISSUE
	C2	3B
Lucent Technologies	SD-5D518-01	SHEET B14

AS 11

INTEGRATED SERVICES LINE UNIT (ISLU)

NOTE:

- IN APPLICATIONS WHERE TWO ISLU'S ARE PUT IN A LTP CABINET, THE PLENUM IS NOT REQUIRED. THE MOUNTING EQLS ARE SET TO THE MIDDLE OF THE COMMON SHELF OF EACH ISLU. THE MOUNTING EQLS ARE 32 AND 62.

DESCRIPTION

ISLU IS A (2) SHELF UNIT CONSISTING OF (1) 8 1/2 INCH STANDARD SHELF J5D004AG-() AND THE OTHER IS A 2 1/4 INCH (4) DRAWER UNIT J5D004AH-().

CAPACITY

EACH ISLU CAN TERMINATE A MAXIMUM OF 512 LINES AT A 1:1 LINE CONCENTRATION RATIO. THE MAXIMUM NUMBER OF LINE PER CARD TYPE AT 1:1 IS:

- 'T' CARDS - 512 LINES
- 'U' CARDS VERSION 1 - 240 LINES
- 'U' CARDS - 496 LINES
- 'Z' CARDS - 496 LINES

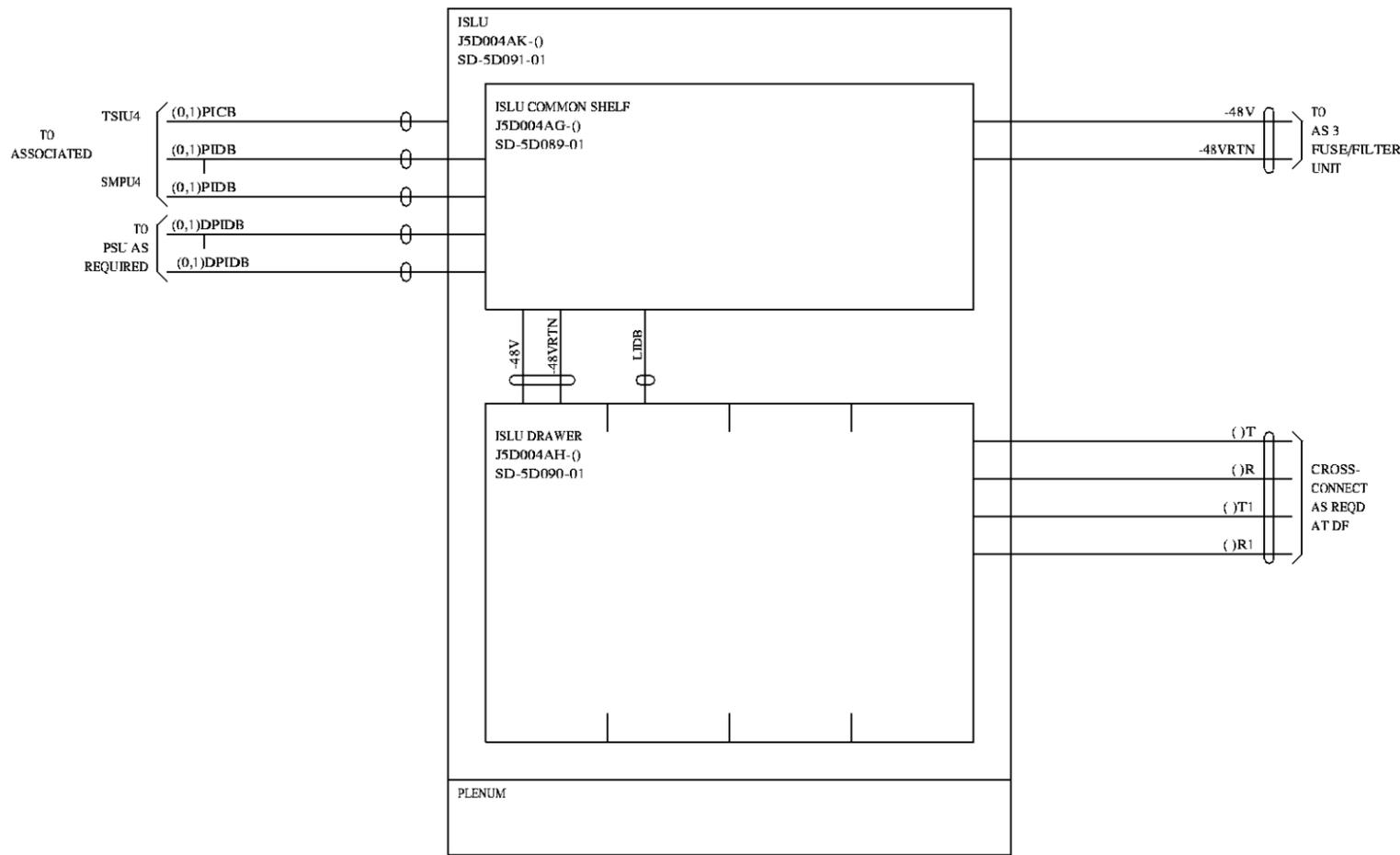
THE CONCENTRATION RATIO IS ENGINEERABLE.

FUSING REQUIREMENTS

SEE SD-5D091-01 FOR FUSING REQUIREMENTS IN GENERAL. ISLU REQUIRES THE J5D003BT FUSE/FILTER UNIT WITH ALL FUSING TO A GIVEN ISLU OFF THE SAME POWER BUS. EVEN NUMBERED ISLU'S WITHIN A GIVEN SM SHALL BE CONNECTED TO BUS 0 AND ODD NUMBERED ISLU'S WITHIN A GIVEN SM SHALL BE CONNECTED TO BUS 1.

SPECIFIC MOUNTING REQUIREMENTS

IT IS A REQUIREMENT THAT A 4 1/4 INCH PLENUM BE MOUNTED DIRECTLY BELOW ISLU. THE RECOMMENDED MOUNTING LOCATION FOR ISLU IS THE TOP OF THE FRAME VERTICAL EQL 36. (SEE NOTE 1).



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SWITCHING MODULE 2000 APPLICATION SCHEMATIC	DWG SIZE	ISSUE
	C2	3B
Lucent Technologies	SD-5D518-01	SHEET B15

AS 12

ANALOG TRUNK UNIT-EXPORT
(ATUE)

DESCRIPTION

EACH ANALOG TRUNK UNIT EXPORT IS AN 8-1/2 INCH HIGH SHELF WHICH PROVIDES FOR TERMINATION OF UP TO 64 VOICE FREQUENCY TRUNK CIRCUITS. THESE TRUNKS MAY BE USED FOR INTEROFFICE TRUNKS AND/OR TRUNKS TO SWITCHBOARD, OPERATOR POSITIONS AND ANNOUNCEMENT MACHINES.

CAPACITY

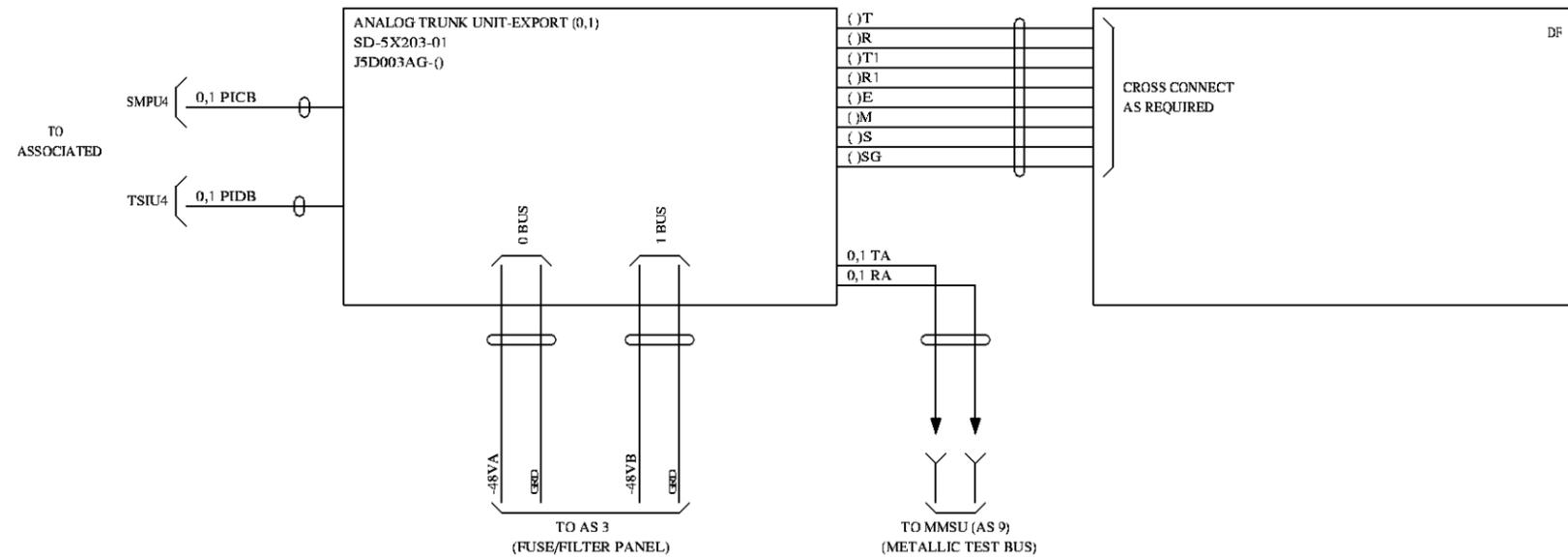
EACH UNIT CONTAINS TWO SIMPLEX SERVICE GROUPS CAPABLE OF TERMINATING 32 TRUNKS EACH.

FUSING REQUIREMENT

SEE SD-5X203-01 FOR FUSING REQUIREMENTS.

SPECIFIC MOUNTING REQUIREMENTS

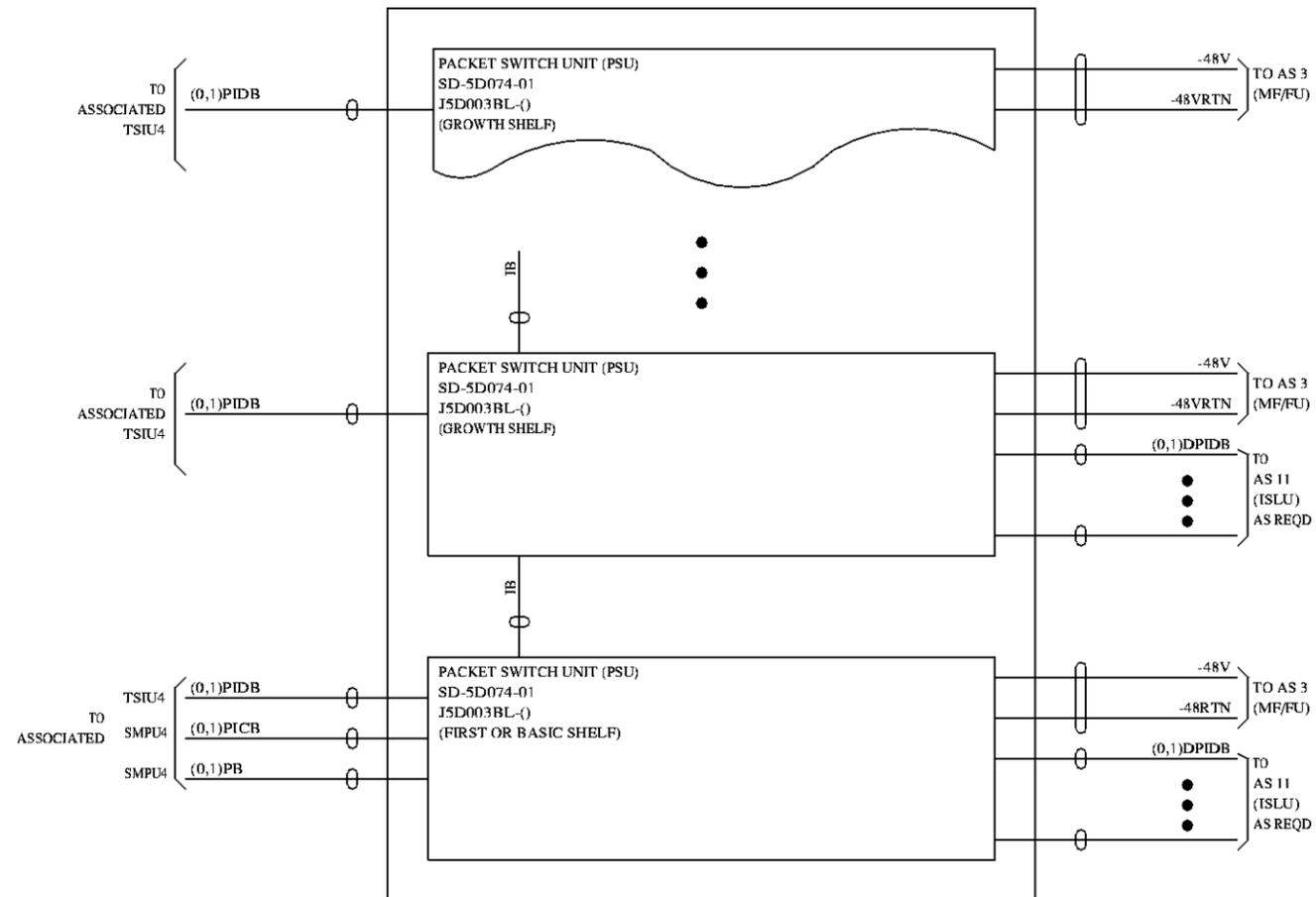
ANY AVAILABLE POSITION IN AN LTP CABINET.



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SWITCHING MODULE 2000 APPLICATION SCHEMATIC	DWG SIZE	ISSUE
	C2	3B
Lucent Technologies	SD-5D518-01	SHEET B16

AS 13

PACKET SWITCH UNIT (PSU) INTERCONNECTION



NOTE:

1. WHEN A PSU IS EQUIPPED WITH PH3 CIRCUIT PACKS AND THE FOURTH SHELF IS ADDED A J5D003BW(-) EXHAUST FAN UNIT IS REQUIRED. A PLENUM IS REQUIRED UNLESS THE FIFTH PSU SHELF IS ADDED.

DESCRIPTION

EACH PACKET SWITCH UNIT IS AN 8-1/2 INCH HIGH SHELF WHICH IS GROWABLE TO A TOTAL OF FIVE SHELVES. THE FIRST SHELF OR BASIC SHELF REQUIRES A DUPLICATED PIDB, PICB AND PACKET BUS (PB). THE SECOND THROUGH FIFTH SHELVES ARE GROWTH SHELVES EQUIPPED WITH DUPLICATED PIDB'S. EACH SHELF'S DPIDB'S ARE ENGINEERED AS REQUIRED.

CAPACITY

EACH SHELF OF PSU CAN SERVE UP TO 240 DIGITAL SUBSCRIBER LINES (DSL'S) WHEN EQUIPPED WITH PH16 PROTOCOL HANDLER CIRCUIT PACKS AND N + 1 SPARING STRATEGY.

FUSING REQUIREMENTS

SEE SD-5D074-01 FOR FUSING REQUIREMENTS.

SPECIFIC MOUNTING REQUIREMENTS

THE RECOMMENDED MOUNTING IS AS FOLLOWS - THE PSU BASIC SHELF SHALL BE MOUNTED IN THE LOWEST UNIT POSITION OF AN LTP CABINET. THE GROWTH SHELVES SHALL BE MOUNTED IN ADJACENT POSITIONS ABOVE THE BASIC SHELF. THE PSU CAN ONLY BE EQUIPPED IN A LTP CABINET THAT IS IN THE SAME LINE-UP AS THE SMC CABINET. (SEE NOTE 1).

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SWITCHING MODULE 2000 APPLICATION SCHEMATIC		DWG SIZE C2
Lucent Technologies		ISSUE 3B
SD-5D518-01		SHEET B17

AS 14

DIGITAL LINE TRUNK UNIT-EXPORT
(DLTUE)

DESCRIPTION

EACH DLTUE EXPORT IS AN 8-1/2 INCH HIGH SHELF WHICH PROVIDES FOR TERMINATION OF UP TO 10 T1 FACILITIES.

CAPACITY

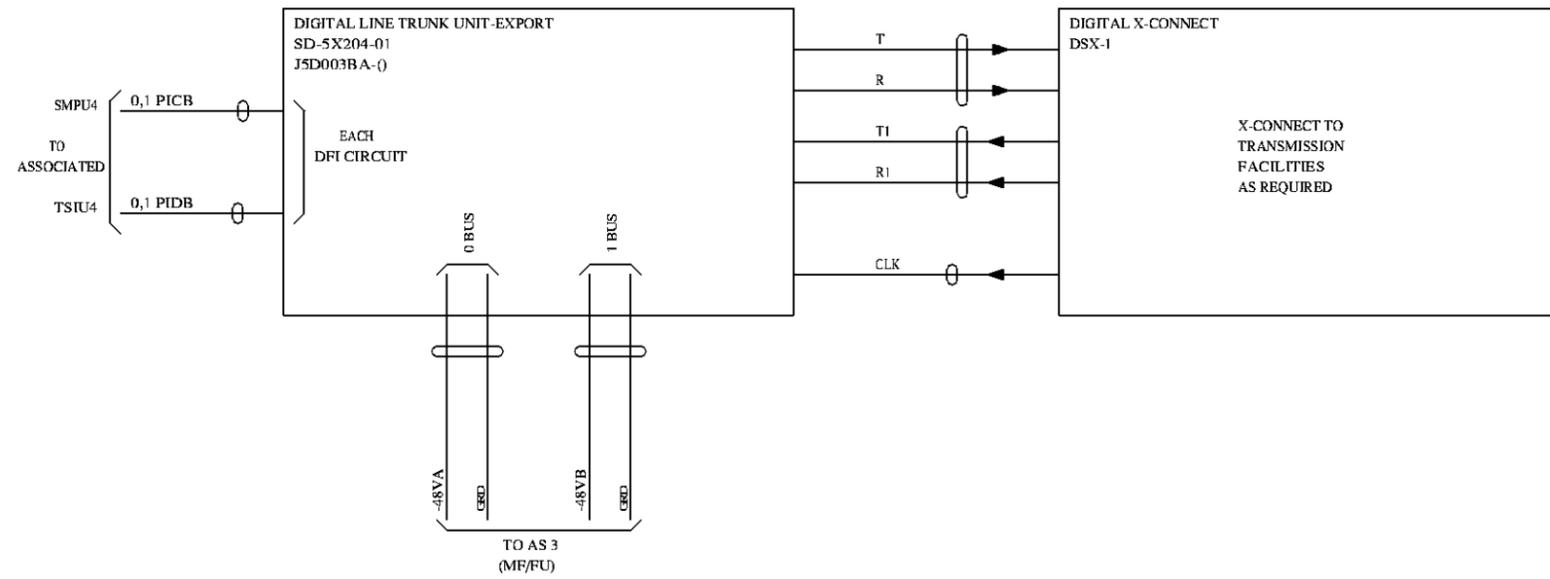
EACH DLTUE WILL ACCOMMODATE UP TO 10 T1 FACILITIES (240 TRUNKS).
(SEE SD-5D007).

FUSING REQUIREMENT

(SEE SD-5X204-01).

SPECIFIC MOUNTING REQUIREMENTS

THE RECOMMENDED PLACEMENT FOR THE DLTUE IS IN ONE OF THE BOTTOM 2 EQUIPMENT POSITIONS IN AN LTP CABINET. THIS PLACEMENT MINIMIZES CABLE CONGESTION.



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SWITCHING MODULE 2000 APPLICATION SCHEMATIC	DWG SIZE	ISSUE
	C2	3B
Lucent Technologies	SD-5D518-01	SHEET B18

AS 15

DIGITAL LINE TRUNK UNIT MODEL 2
(DLTU2)

DESCRIPTION

EACH DLTU2 IS AN 8-1/2 INCH HIGH SHELF WHICH PROVIDES FOR TERMINATION OF UP TO 20 T1 FACILITIES.

CAPACITY

EACH DLTU2 WILL ACCOMMODATE UP TO 20 T1 FACILITIES (480 TRUNKS). (SEE SD-5D007-01).

FUSING REQUIREMENTS

SEE SD-5D201-01.

SPECIFIC MOUNTING REQUIREMENTS

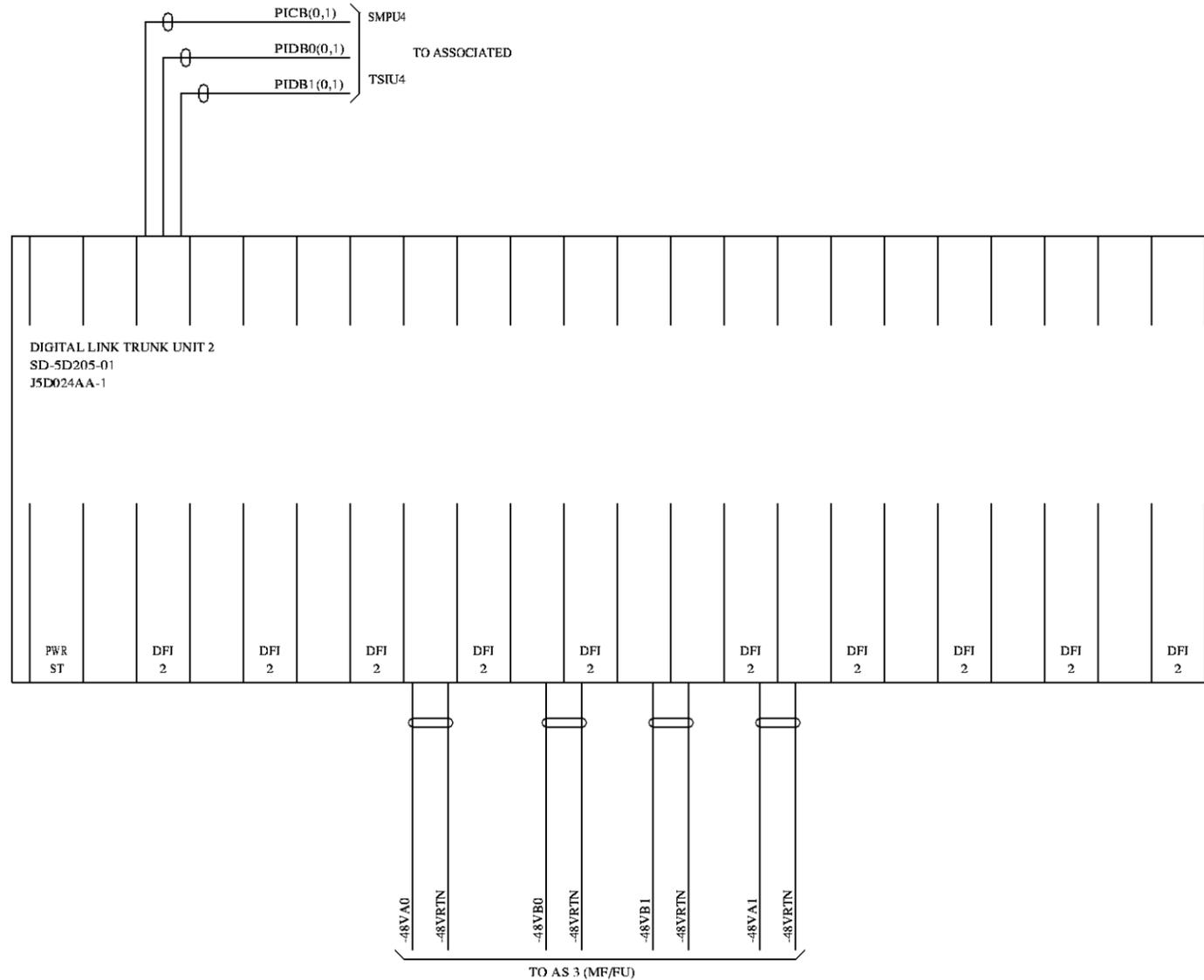
THE RECOMMENDED PLACEMENT IS IN ONE OF THE BOTTOM TWO EQUIPMENT LOCATIONS IN A LTP CABINET. THIS PLACEMENT MINIMIZES CABLE CONGESTION.

DIGITAL X-CONNECT (DXS 1)

X-CONNECT TO
TRANSMISSION FACILITIES
AS REQUIRED

SPECIFIC REQUIREMENTS

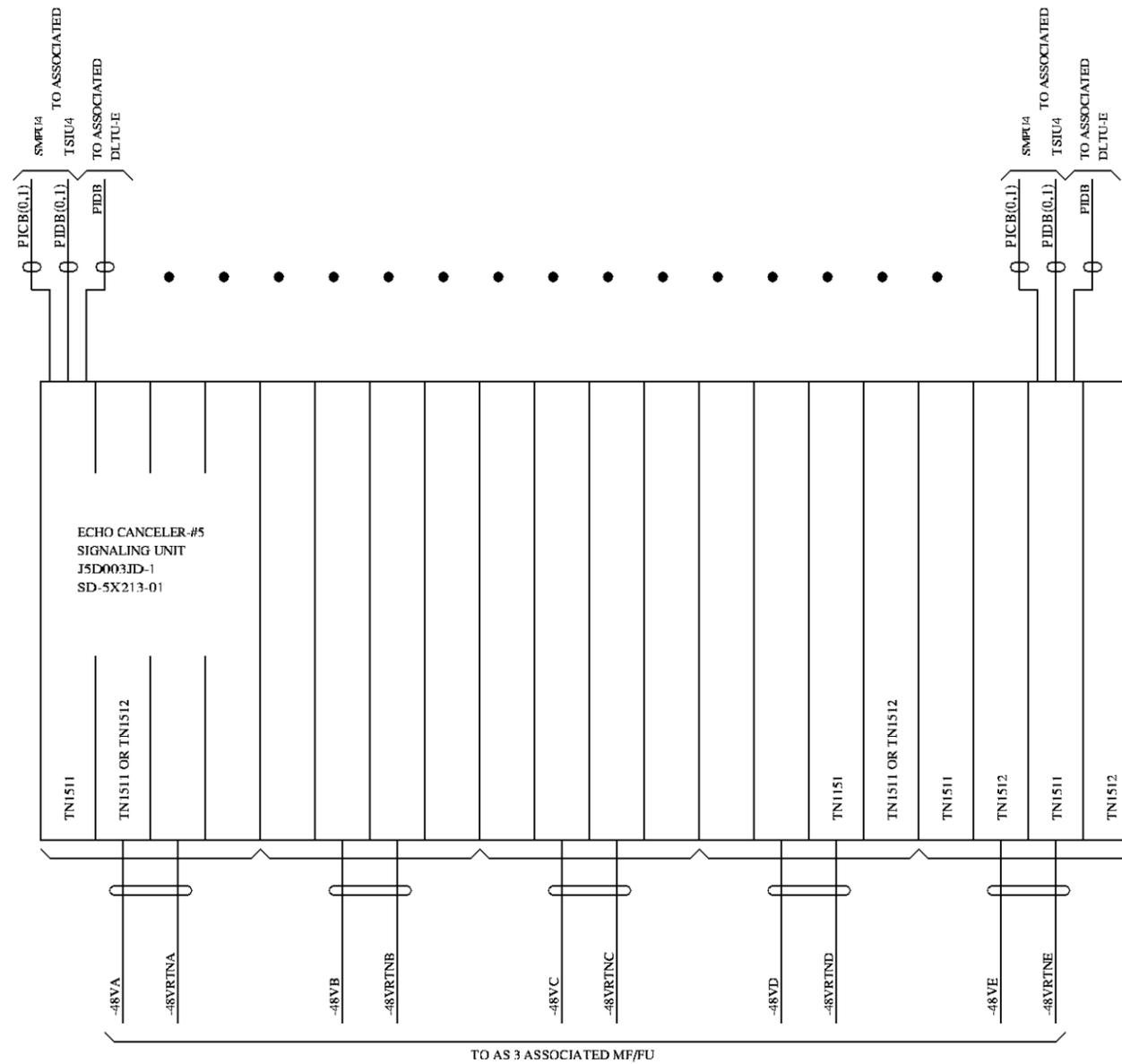
WHEN TWO T1 FACILITIES SERVE AS CONTROL TIME SLOTS (CTS) UMBILICALS BETWEEN A HOST SM (HSM) AND A PARTICULAR REMOTE SM (RSM), THEY MUST NOT BOTH BE EQUIPPED ON A SINGLE DFI-2R CIRCUIT PACK. WHEN THE DLTU2 IS INSTALLED IN A RSM ALL T1 FACILITIES SERVING AS CONTROL TIME SLOTS (CTS) UMBILICALS BETWEEN THE HSM AND RSM MUST BE EQUIPPED ON THE FIRST FOUR CIRCUIT PACK POSITIONS. TWO OR FOUR CTS UMBILICALS MAY BE EQUIPPED PER RSM. IF ONLY TWO CTS UMBILICALS ARE EQUIPPED ON THE DLTU2 THEY MUST BE EQUIPPED IN DFI-2R CIRCUIT PACK POSITIONS 1 AND 2. IF FOUR THEN ITS CIRCUIT PACK POSITIONS 1 TO 4.



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SWITCHING MODULE 2000 APPLICATION SCHEMATIC		
DWG SIZE C2	ISSUE 3B	
Lucent Technologies	SD-5D518-01	SHEET B19

AS 16

ECHO CANCELER-#5 SIGNALING UNIT
(ECSU)



DESCRIPTION

EACH ECHO CANCELER-#5 SIGNALING UNIT (ECSU) IS AN 8-1/2 INCH HIGH SHELF WHICH PROVIDES EITHER 32 OR 64 ms OF ECHO CANCELING ON TRUNKS AND SUPPORTS CCITT #5 SIGNALING.

CAPACITY

EACH ECSU CAN HOLD UP TO - (16) TN1511 PACKS WHICH PROVIDES 32ms OF ECHO CANCELING OR (10) PAIRS OF PACKS (1) TN1511 AND (1) TN1512 WHICH TOGETHER PROVIDE 64ms OF ECHO CANCELING. THE ECHO CANCELING CAPACITY CAN NOT BE MIXED.

FUSING REQUIREMENTS

SEE SD-5D400-01 FOR FUSING REQUIREMENTS.

SPECIFIC MOUNTING REQUIREMENTS

THE ECSU SHALL BE MOUNTED DIRECTLY BELOW ITS ASSOCIATED DLTU-E. PIDB/PICB CABLING ALWAYS COMES FROM THE SLOT WITH A TN1511 PACK IN IT.

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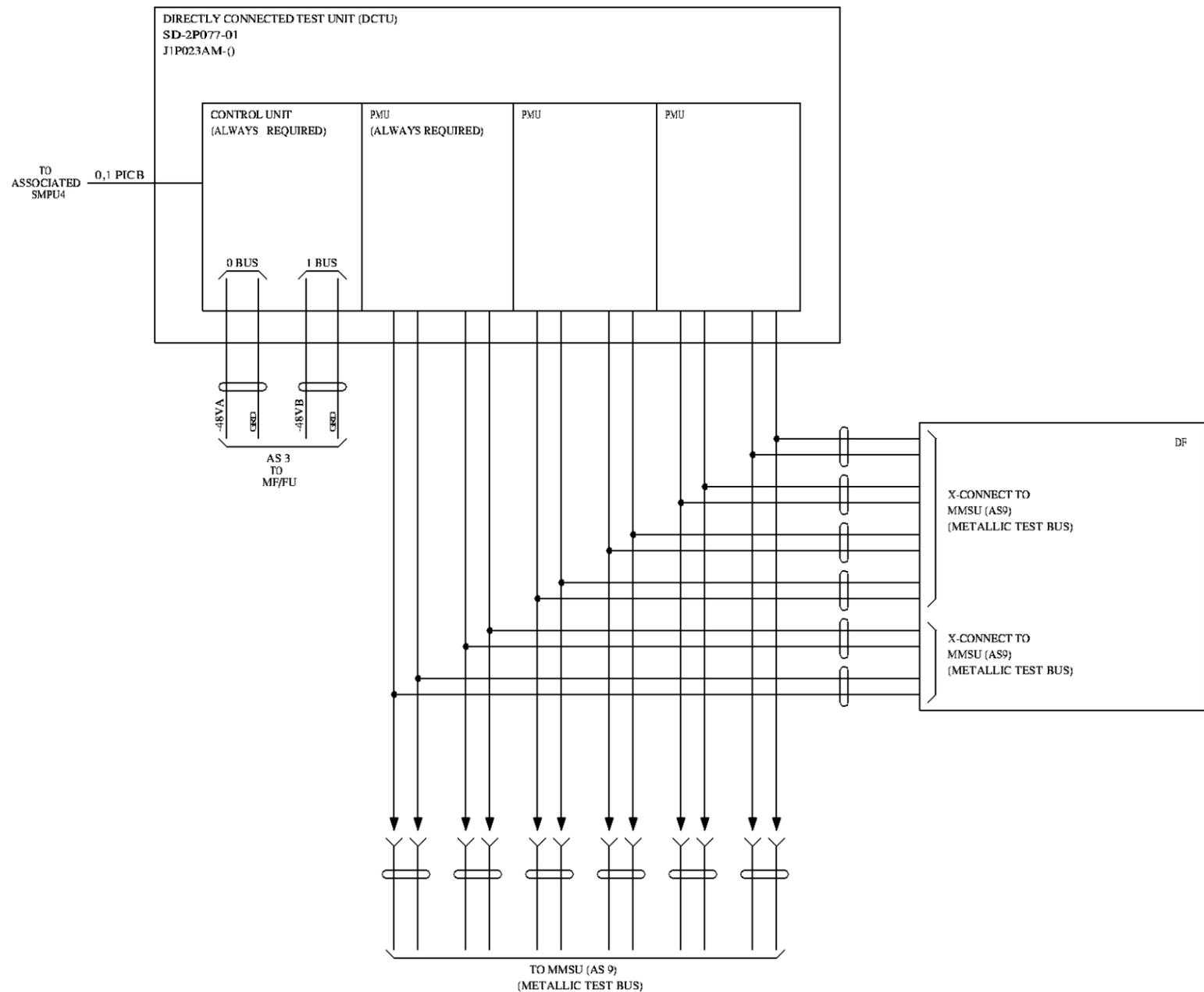
SWITCHING MODULE 2000
APPLICATION SCHEMATIC

DWG SIZE	ISSUE
C2	3B

Lucent Technologies	SD-5D518-01	SHEET B20
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AS 17

DIRECTLY CONNECTED TEST UNIT
(DCTU)



DESCRIPTION

THE DCTU CONSISTS OF TWO TO FOUR 8-1/2 INCH SHELVES. THE CONTROL UNIT AND FIRST PMU ARE ALWAYS REQUIRED FOR GROWTH OF PMU SHELVES SEE SD-2P077-01.

CAPACITY

SEE SD-5D007-01 (ASSIGNMENT RULES) FOR ASSIGNMENT OF PICB AND MTB.

FUSING REQUIREMENTS

SEE SD-2P007-01 FOR FUSE REQUIREMENTS.

SPECIFIC MOUNTING REQUIREMENTS

THE DCTU WILL BE MOUNTED IN THE TOP TWO TO FOUR UNIT POSITIONS OF AN LTP CABINET.

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SWITCHING MODULE 2000 APPLICATION SCHEMATIC		DWG SIZE C2
Lucent Technologies		ISSUE 3B
SD-5D518-01		SHEET B21

AS 18

PERIODIC PULSE METERING UNIT
(PPMU)

DESCRIPTION

EACH PPMU CONSISTS OF ONE 8-1/2 INCH HIGH SHELF. THE SHELF IS ONE SERVICE GROUP, AND REQUIRES ONE DUPLICATED PICB. THE PPMU PROVIDES SUBSCRIBER LINES WITH 12KHZ OR 16KHZ TONE PULSING OR BATTERY REVERSAL PULSING.

CAPACITY

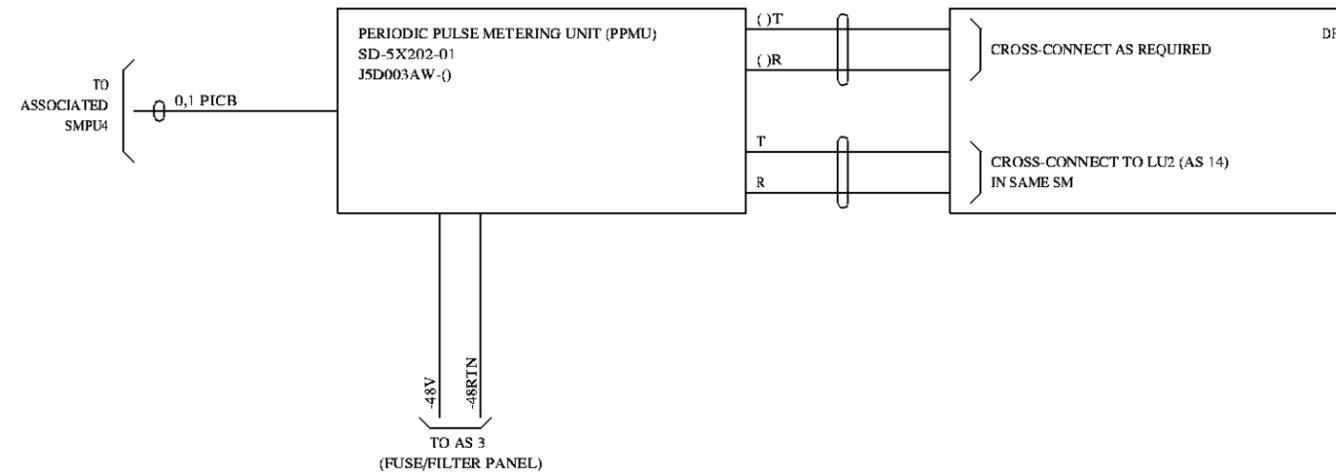
THE PPMU SERVES UP TO 64 SUBSCRIBER LINES, ASSOCIATED WITH UP TO 4 LU'S.

FUSING REQUIREMENTS

SEE SD-5X202-01 FOR PPMU FUSING REQUIREMENTS.

SPECIFIC MOUNTING REQUIREMENTS

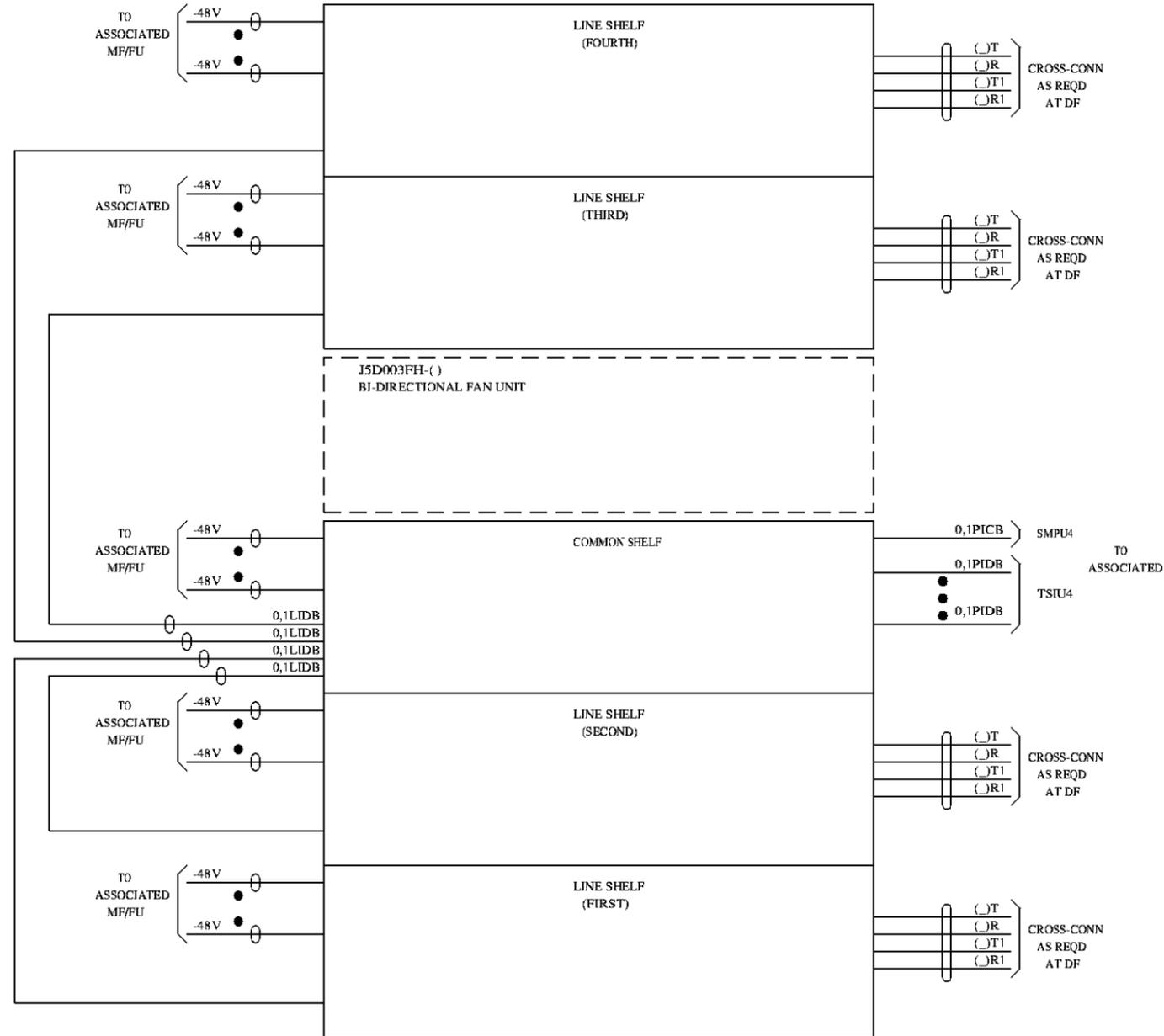
ANY AVAILABLE POSITION IN AN LTP CABINET.



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SWITCHING MODULE 2000 APPLICATION SCHEMATIC		
DWG SIZE C2	ISSUE 3B	
Lucent Technologies	SD-5D518-01	SHEET B22

AS 19

INTEGRATED SERVICES LINE UNIT MODEL 2 (ISLU2)
SD-5D192-01
J5D004AL-()



DESCRIPTION

ISLU2 IS A THREE TO FIVE SHELF UNIT EACH SHELF IS A SINGLE 8.50" HIGH X 24.50" WIDE SHELF. A UNIT IS MADE UP OF A COMMON SHELF AND (2) TO (4) LINE SHELVES.

CAPACITY

EACH ISLU2 LINE SHELF TERMINATES UP TO 256 LINES. A FULLY EQUIPPED ISLU2 TERMINATES 1024 LINES. EACH SHELF CAN BE EQUIPPED WITH EITHER "U" OR "Z" TYPE LINE CARDS.

FUSING REQUIREMENTS

ISLU2 MUST BE FUSED OFF THE SAME BUS "A" OR "B" IF THERE ARE TWO ISLU2 IN A CABINET EACH SHOULD BE FUSED OFF A DIFFERENT BUS. SEE SD-5D192-01 FOR SPECIFIC REQUIREMENTS.

SPECIFIC MOUNTING REQUIREMENTS

THE FIRST ISLU2 SHALL BE MOUNT WITH IT'S COMMON SHELF BELOW THE FAN UNIT AND ASSOCIATED LINES SHELVES MOUNT BELOW THE COMMON SHELF THEN ABOVE AS REQUIRED. IF TWO ISLU2 ARE MOUNTED IN A FRAME EACH ISLU2 IS COMMON SHELF AND TWO LINE SHELVES BELOW WITH ONE THREE SHELF ISLU2 BELOW THE FAN UNIT AND ONE ABOVE.

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SWITCHING MODULE 2000 APPLICATION SCHEMATIC		
DWG SIZE C2	ISSUE 3B	
Lucent Technologies	SD-5D518-01	SHEET B23

AS 20

DIGITAL CARRIER LINE UNIT
(DCLU)

DESCRIPTION

THE DCLU CONSISTS OF 2 TO 3 8-1/2 INCH HIGH SHELVES. THE FIRST 2 SHELVES CONSTITUTE THE J5D003AR UNIT WITH EACH SHELF A DIFFERENT SERVICE GROUP. THE THIRD SHELF IS THE J5D003AS UNIT AND IT IS DIVIDED INTO TWO SERVICE GROUPS. THE J5D003AS IS EQUIPPED AS REQUIRED.

THE DCLU TERMINATES REMOTE TERMINALS ON ITS DFI CIRCUITS. MODE I REQUIRES 5 DFI CIRCUIT PACKS PER REMOTE TERMINAL AND MODE II REQUIRES 3 DFI CIRCUIT PACKS PER REMOTE TERMINAL.

FOR OPTION T, THE NUMBER OF PIDB'S REQUIRED IS IN ACCORDANCE WITH THE DESIRED LINE CONCENTRATION RATIO FOR THE REMOTE TERMINAL. FOR A 4.5:1 LCR TWO DUPLICATED PIDB'S PER SERVICE GROUP ARE REQUIRED. FOR A 9:1 LCR ONE DUPLICATED PIDB PER SERVICE GROUP IS REQUIRED. TWO DUPLICATED PICB'S ARE REQUIRED FOR EACH SERVICE GROUP.

CAPACITY

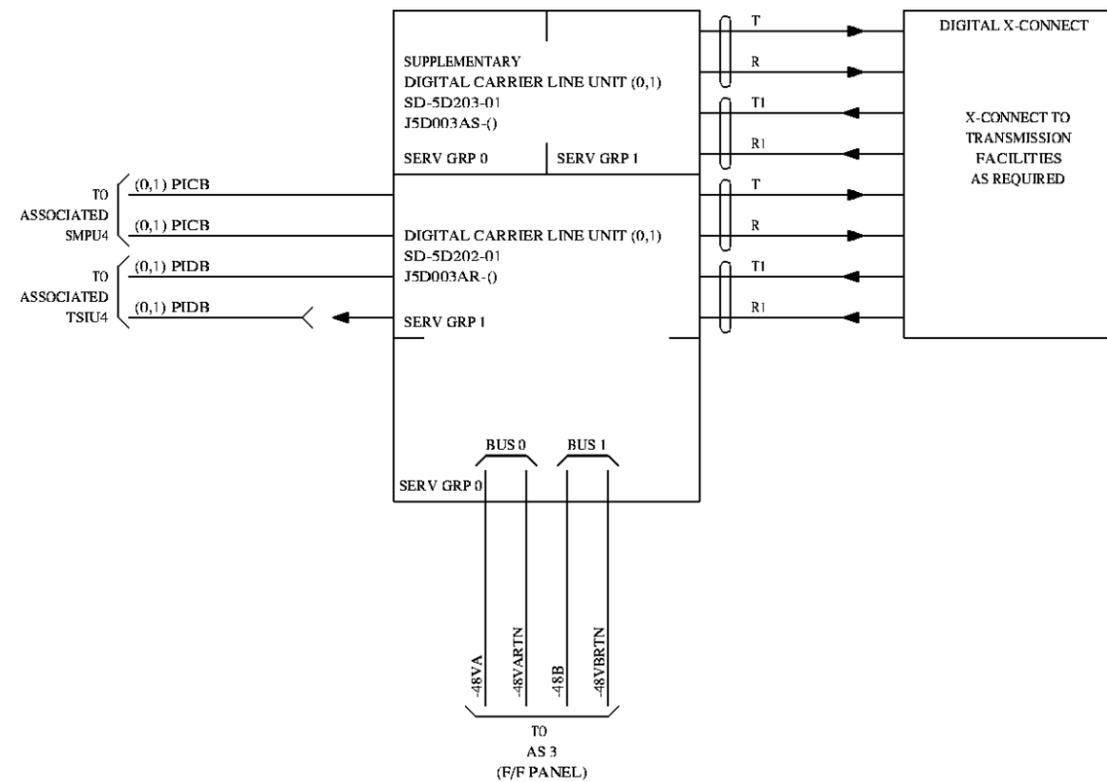
A MAXIMUM OF 6 RT'S MAY BE TERMINATED ON A DCLU (MODE I OR MODE II OR A MIX OF MODE I AND MODE II). SEE ASSIGNMENT RULES SD-5D007-01.

FUSING REQUIREMENTS

SEE SD-5D202-01 FOR FUSING REQUIREMENTS.

SPECIFIC MOUNTING REQUIREMENTS

THE J5D003AR MAY BE MOUNTED IN ANY TWO AVAILABLE CONSECUTIVE VERTICAL UNIT POSITIONS IN A LTP CABINET. THE J5D003AS, WHEN REQUIRED, SHALL BE MOUNTED IN A UNIT POSITION DIRECTLY ABOVE THE J5D003AR. ON AN OPTIONAL BASIS, THE UNIT POSITION DIRECTLY ABOVE THE J5D003AR MAY BE RESERVED FOR FIELD ADDITION OF THE J5D003AS TO ACCOMMODATE MODE I EXPANSION.



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SWITCHING MODULE 2000 APPLICATION SCHEMATIC	DWG SIZE	ISSUE
	C2	3B
Lucent Technologies	SD-5D518-01	SHEET B24

AS 21

INTEGRATED DIGITAL CARRIER UNIT (IDCU)
SD-5D301-01
J5D003FL-()

DESCRIPTION

IDCU IS A SINGLE 8.50" HIGH X 23.00" WIDE UNIT WHICH CONVERTS DSIS TO PIDBS OR TO DPIDBS, THIS IS A DUPLEX UNIT.

CAPACITY

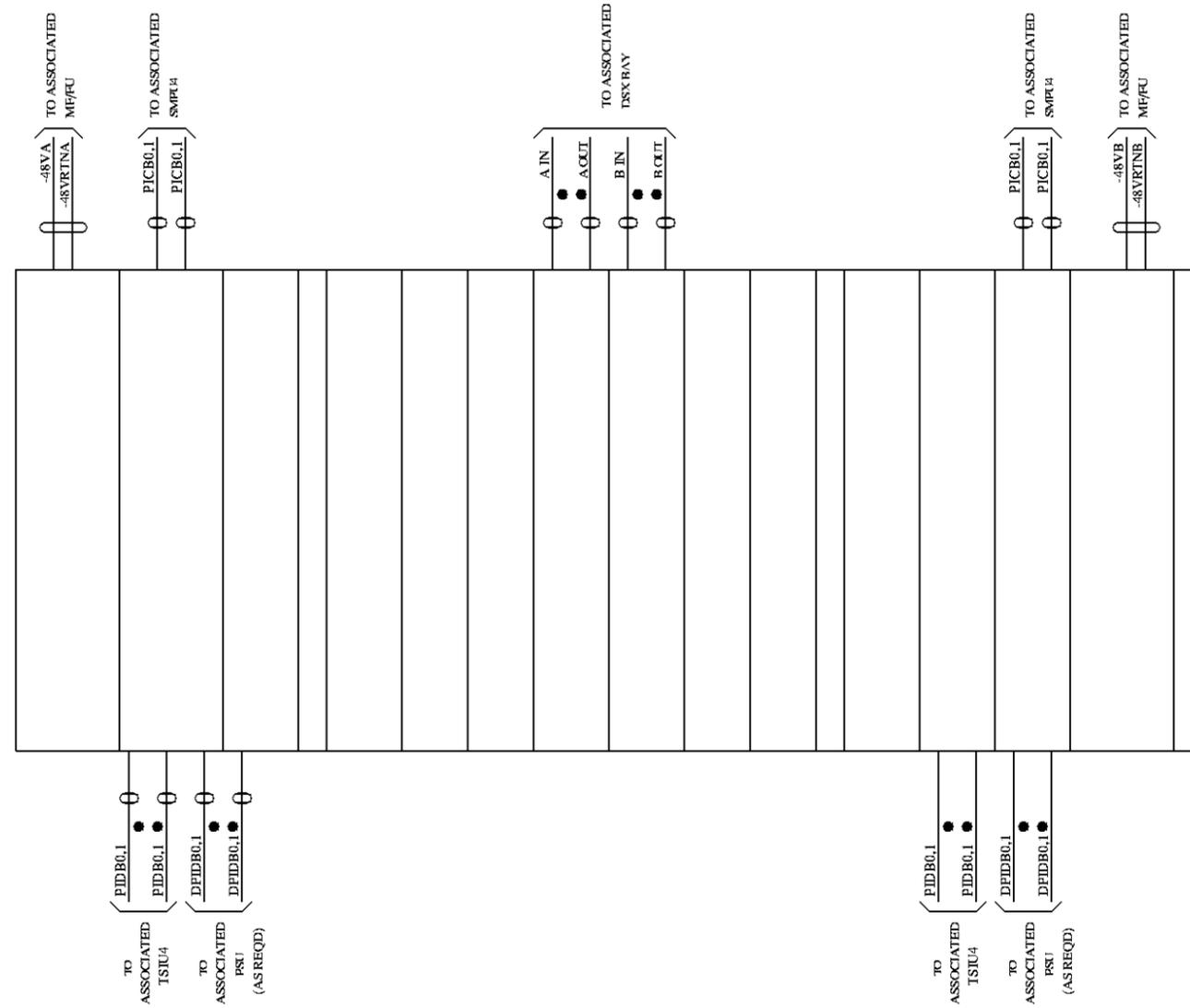
IDCU CAN TERMINATE (31) REMOTE TERMINALS AND A MAXIMUM OF 40 DSIS
(2) LOOP SIDE INTERFACE PACKS ARE REQD PER 20 DSIS (MAX 4)
(2) ELECTRICAL LINE INTERFACE PACKS ARE REQD FOR THE SECOND 20 DSIS AND PIDB PORTS 9-15.

FUSING REQUIREMENTS

IDCU SHOULD HAVE ONE FUSE ON EACH BUS PER SD-5D301-01.

SPECIFIC MOUNTING REQUIREMENTS

IDCU CAN MOUNT IN ANY SHELF LOCATION OF A LTP CABINET EQUIPPED WITH A 6 FAN BI-DIRECTIONAL FAN UNIT.



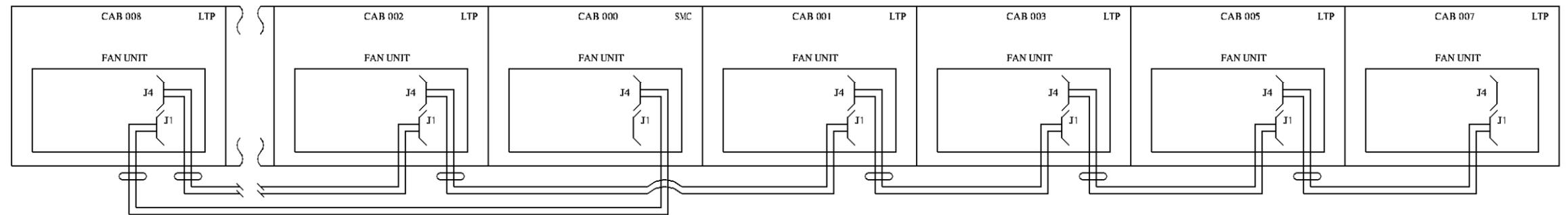
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SWITCHING MODULE 2000 APPLICATION SCHEMATIC		
DWG SIZE C2	ISSUE 3B	
Lucent Technologies	SD-5D518-01	SHEET B25

AS 22A

INTER-CABINET FAN ALARM SCAN/DISTRIBUTE MULT
(BI-DIRECTIONAL FAN UNIT E/W CONNECTORIZED ALARM BOARD)

NOTES:

1. CABLE MULT IS SIMILAR FOR ALL SINGLE LINE-UP CONFIGURATIONS.



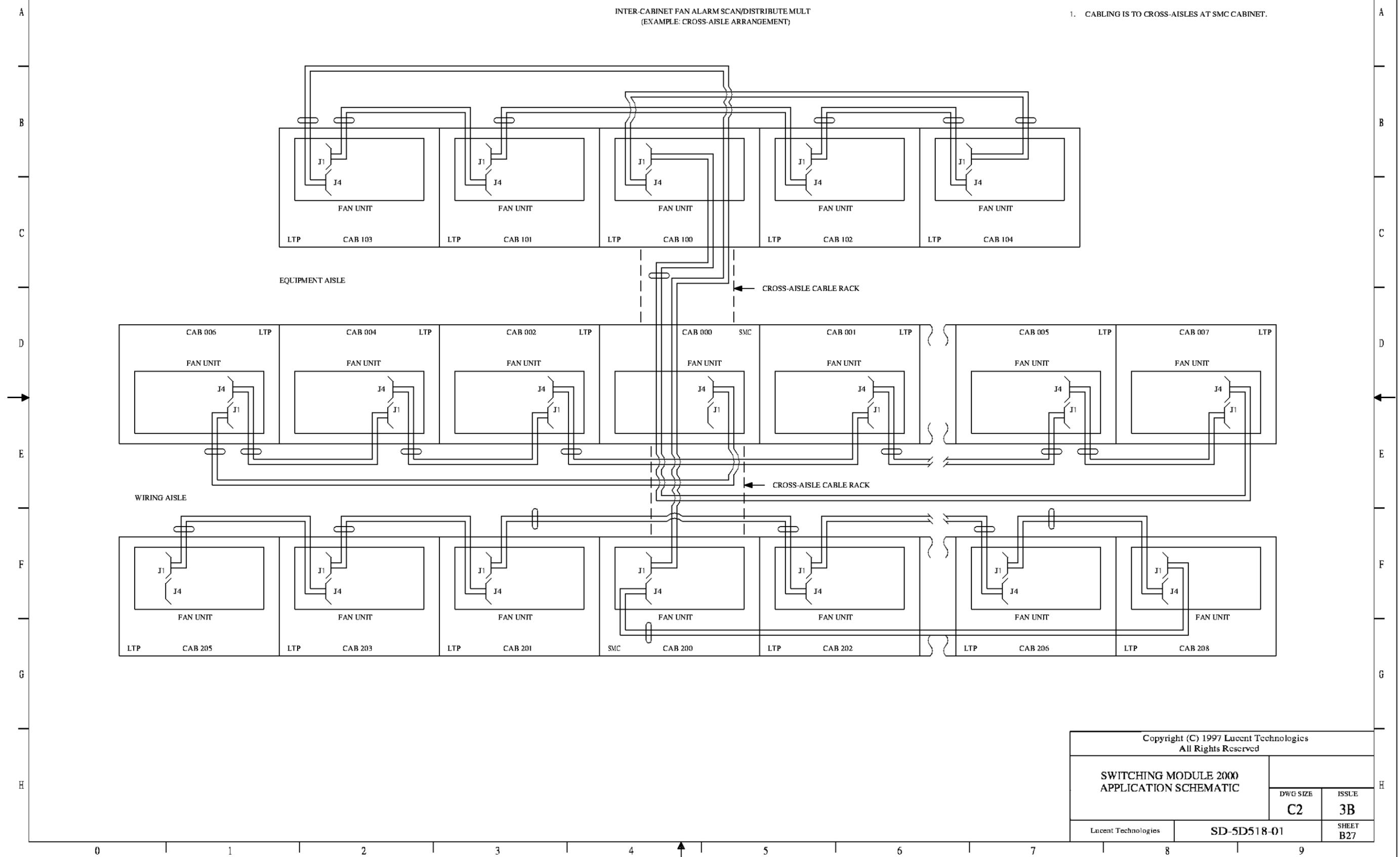
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SWITCHING MODULE 2000 APPLICATION SCHEMATIC		
DWG SIZE C2	ISSUE 3B	
Lucent Technologies	SD-5D518-01	SHEET B26

AS 22B

INTER-CABINET FAN ALARM SCAN/DISTRIBUTE MULT
(EXAMPLE: CROSS-AISLE ARRANGEMENT)

NOTES:

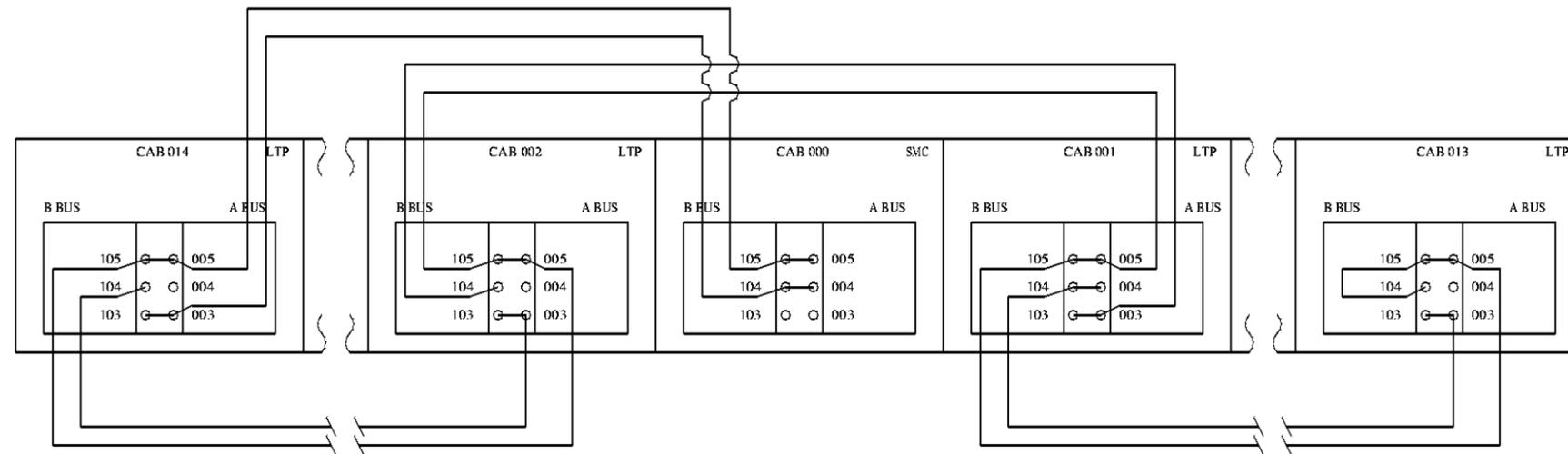
1. CABLING IS TO CROSS-AISLES AT SMC CABINET.



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Lucent Technologies	SD-5D518-01	ISSUE 3B SHEET B27

AS 23A

PERIPHERAL FUSE ALARM MULT
(EXAMPLE: SINGLE LINE-UP "A" BUS CONFIGURATION)



NOTE:

- "B" BUS CONFIGURATION IS SIMILAR EXCEPT IT USES TERMINALS: 006-106, 007-107
- ALTERNATIVE METHODS OF MULTING THE PFU/MFFU ALARM CABLES ARE IN USE FOR SOME NSI APPLICATIONS AND CAN BE FOUND IN:

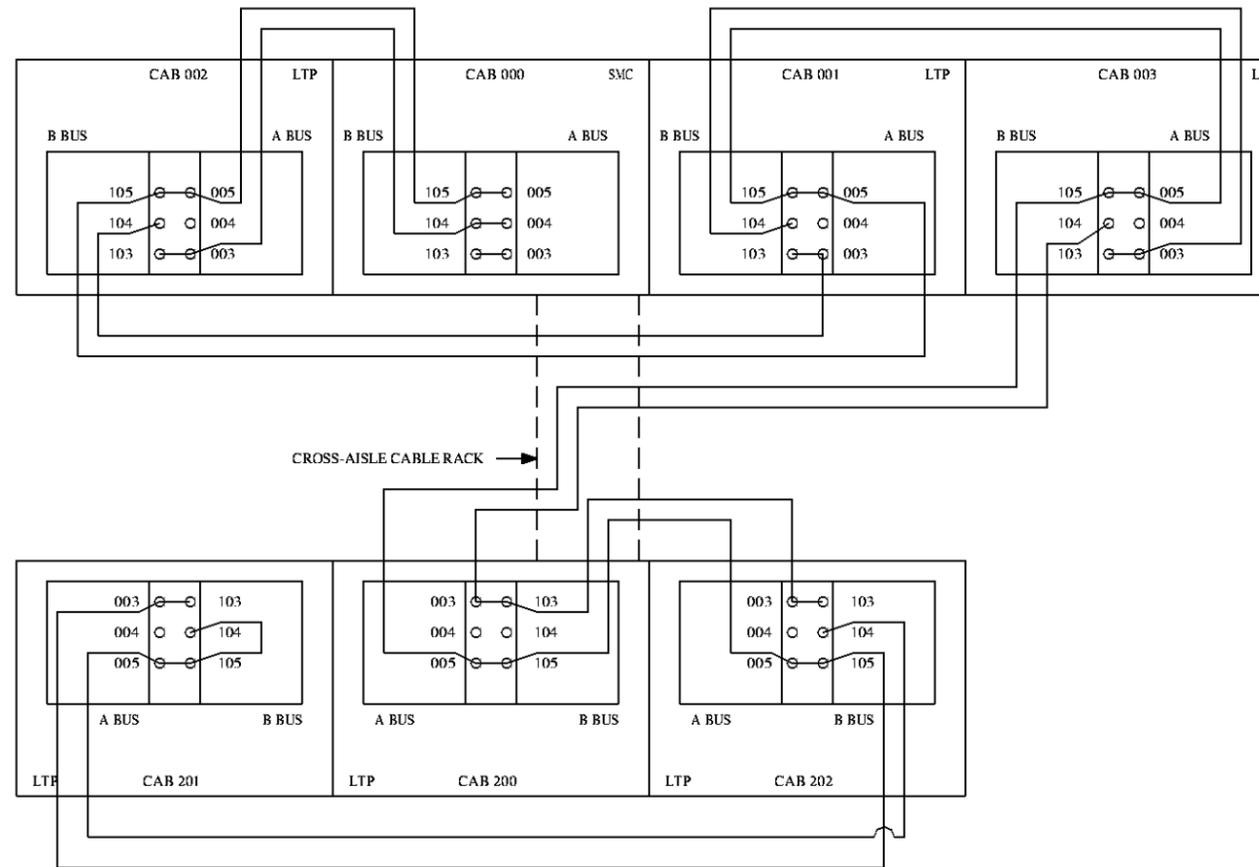
ED5D834-20 5ESS SWITCH EQUIPMENT
MISCELLANEOUS CABLE
ASSEMBLIES

ED5D834-40 5ESS SWITCH EQUIPMENT
MISCELLANEOUS CABLE
KITS

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Lucent Technologies	SD-5D518-01	ISSUE 4M SHEET B28

AS 23B

PERIPHERAL FUSE ALARM MULT
(EXAMPLE: CROSS AISLE "A" BUS CONFIGURATION)



NOTES:

1. "B" BUS CONFIGURATION IS SIMILAR EXCEPT IT USES TERMINALS: 006-106, 007-107
2. CABINET ARRANGEMENT IS AN EXAMPLE ONLY. ACROSS EQUIPMENT-AISLE WOULD BE SIMILAR IN CONFIGURATION. ALARM MULT CABLE CROSSES WIRING AND EQUIPMENT AISLES AT SMC CABINET
3. ALTERNATIVE METHODS OF MULTING THE FFU/MFFU ALARM CABLES ARE IN USE FOR SOME NSI APPLICATIONS AND CAN BE FOUND IN:

ED5D834-20 5ESS SWITCH EQUIPMENT
MISCELLANEOUS CABLE
ASSEMBLIES

ED5D834-40 5ESS SWITCH EQUIPMENT
MISCELLANEOUS CABLE
KITS

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SWITCHING MODULE 2000
APPLICATION SCHEMATIC

DWG SIZE	ISSUE
C2	4M

Lucent Technologies	SD-5D518-01	SHEET B29
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AS 24

COMMUNICATIONS MODULE MODEL 2C (CM2C)
SD-5D513-01
JSD020AJ(-)
FOR SMALL OFFICE APPLICATIONS

DESCRIPTION

CM2C IS A TWO SHELF UNIT, EACH SHELF IS 8.50" HIGH X 23.00" WIDE WHICH WILL BE USED IN SMALL OFFICE APPLICATIONS ONLY.

CAPACITY

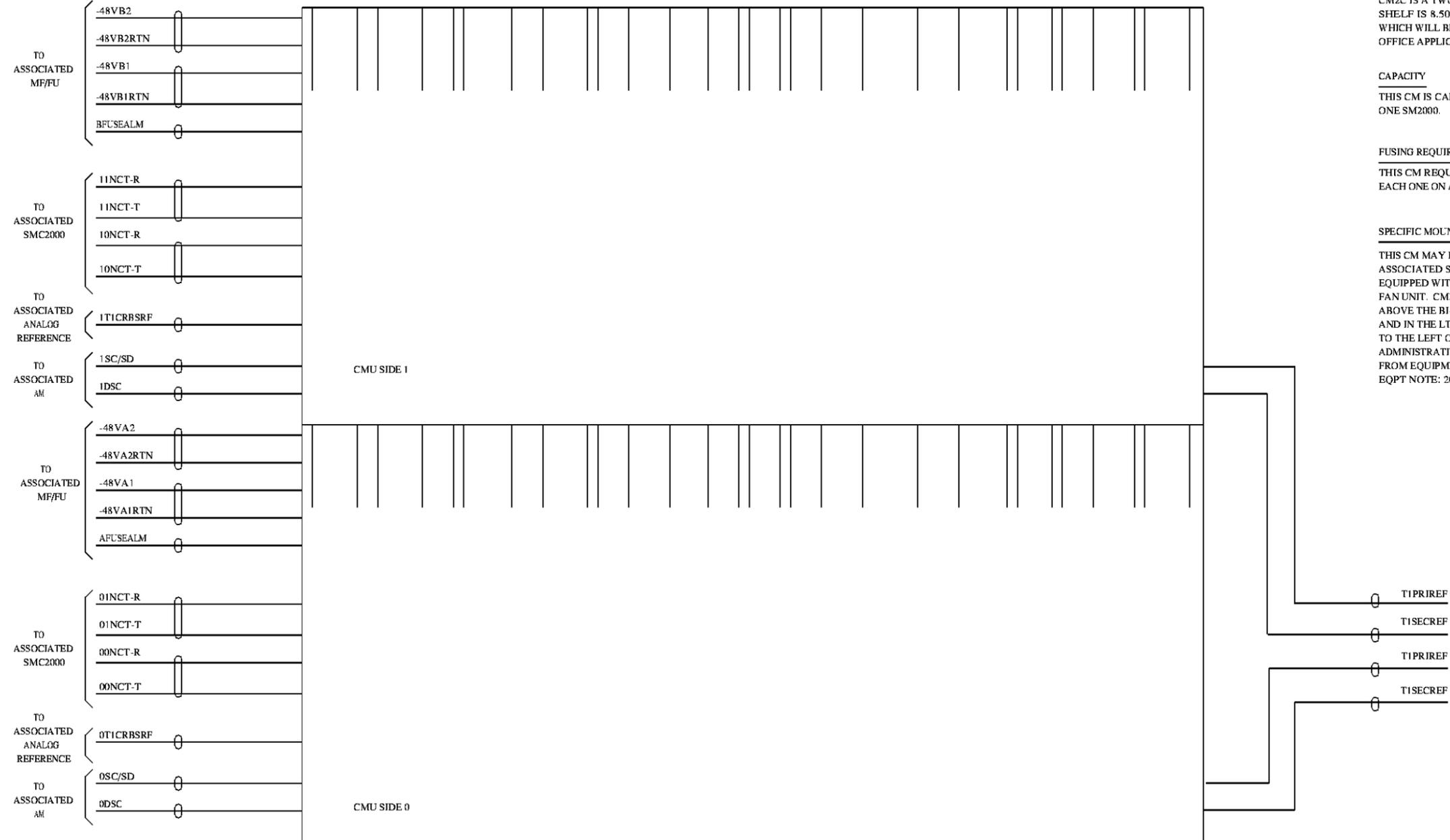
THIS CM IS CAPABLE OF SUPPORTING ONE SM2000.

FUSING REQUIREMENTS

THIS CM REQUIRES (4) FOUR FUSES, EACH ONE ON A DIFFERENT POWER FEEDER.

SPECIFIC MOUNTING REQUIREMENTS

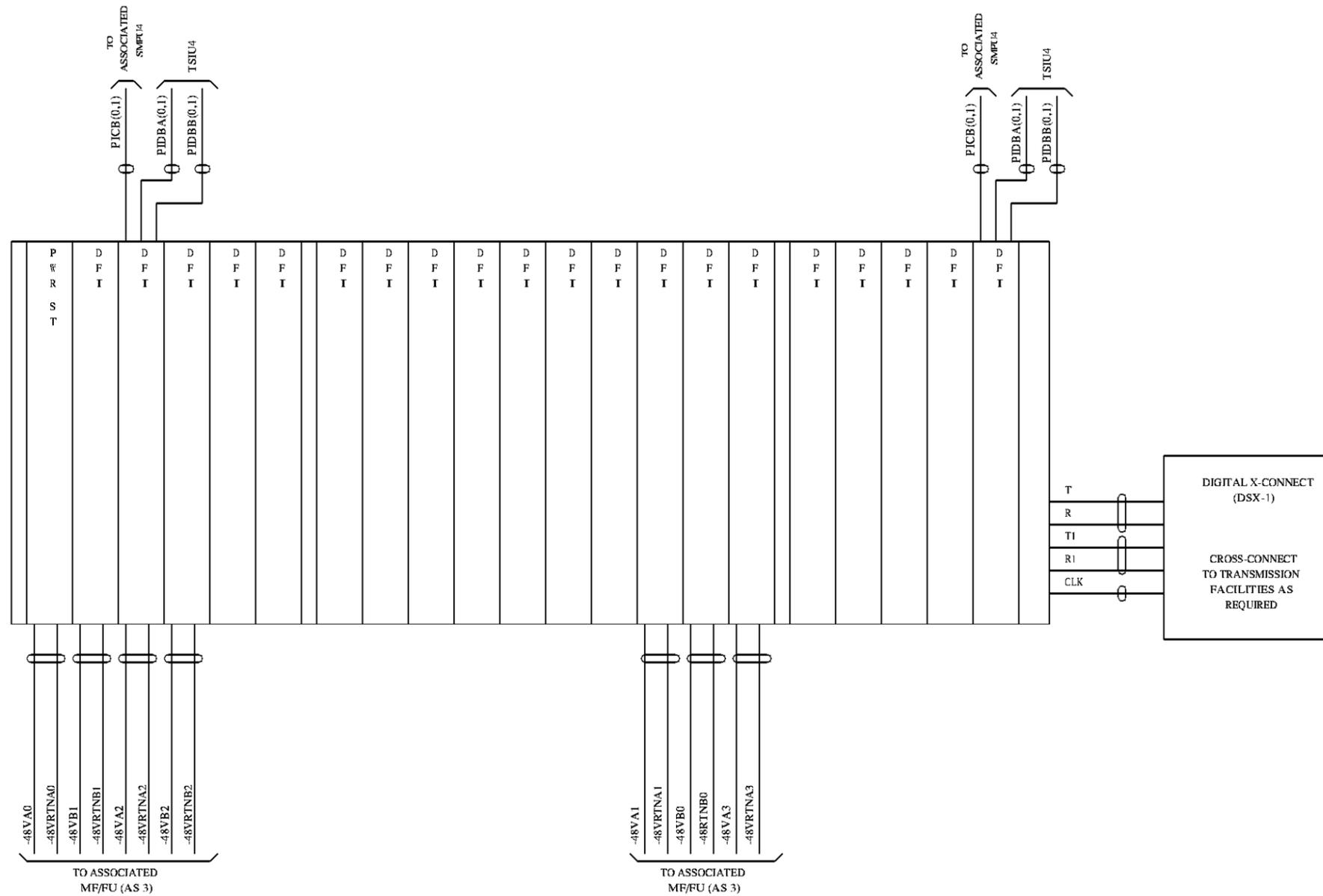
THIS CM MAY BE MOUNTING IN ITS ASSOCIATED SM200 LTP CABINET EQUIPPED WITH A BI-DIRECTIONAL FAN UNIT. CM2C IS MOUNTED DIRECTLY ABOVE THE BI-DIRECTIONAL FAN UNIT AND IN THE LTP CABINET DIRECTLY TO THE LEFT OF THE SMALL OFFICE ADMINISTRATIVE MODULE (AM) AS VIEWED FROM EQUIPMENT SIDE (SEE EQPT NOTE: 209).



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AS 25

DIGITAL LINE TRUNK UNIT MODEL 3 (DLTU3)
SD-5D501-01
J5D003FN-()



DESCRIPTION
EACH DLTU3 IN AN 8.50" HIGH SHELF WHICH PROVIDES FOR TERMINATION OF UP TO 40 T1 FACILITIES. (600 TRUNKS)

CAPACITY
EACH DLTU3 WILL ACCOMMODATE UP TO (20) 24 OR 30 CHANNEL DFI CIRCUIT PACKS.

FUSING REQUIREMENTS
SEE SD-5D501-01

SPECIFIC MOUNTING REQUIREMENTS
MAXIMUM NUMBER OF DLTU3 MOUNTED IN ONE LTP CABINET IS THREE. THIS MINIMIZES CABLE CONGESTION. (THIS IS REL. 1 MAXIMUM EQUIPPAGE).

SPECIFIC REQUIREMENTS

1. WHEN TWO T1 FACILITIES SERVE AS CONTROL TIME SLOT (CTS) UMBILICALS BETWEEN A HOST SWITCH MODULE (HSM) AND A PARTICULAR REMOTE SWITCH MODULE (RSM). THEY MUST NOT BOTH BE EQUIPPED ON A SINGLE DFI2-R OR DFI2-X CIRCUIT PACK.
2. WHEN THE DLTU3 UNIT IS INSTALLED IN A REMOTE SWITCH MODULE (RSM). ALL T1 FACILITIES SERVING AS CONTROL TIME SLOT (CTS) UMBILICALS BETWEEN THE HOST SWITCH MODULE (HSM) AND THE REM MUST BE EQUIPPED ON THE FIRST FOUR CIRCUIT PACK POSITIONS. TWO OR FOUR CTS UMBILICALS MAY BE EQUIPPED PER RSM. IF ONLY TWO CTS UMBILICALS ARE EQUIPPED ON THE DLTU3 UNIT. THEY MUST BE EQUIPPED ON DFI2-R OR DFI2-X CIRCUIT PACK POSITIONS 1 AND 2. IF FOUR CTS UMBILICALS ARE EQUIPPED ON THE DLTU3 UNIT, THEN THEY MUST BE EQUIPPED DFI2-R OR DFI2-X CIRCUIT PACK POSITIONS 1-4.

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SWITCHING MODULE 2000 APPLICATION SCHEMATIC	DWG SIZE	ISSUE
	C2	3B
Lucent Technologies	SD-5D518-01	SHEET B31

AS 26

ACCESS INTERFACE UNIT (AIU)
SD-8G000-01
J8G000A-A-(-)

DESCRIPTION

THE AIU IS A DOUBLE HIGH UNIT (17.00" HIGH) X 8.62" DEEP). THIS DEPTH ALLOWS UNITS TO BE MOUNTED IN THE CABINET BACK-TO-BACK (TWO UNITS PER VERTICAL EQL). UNITS WILL BE EQUIPPED FROM BOTTOM SHELF TO THE TOP SHELF WHETHER IN A FRONT ONLY UNIT ARRANGEMENT OR IN A FRONT AND REAR UNIT ARRANGEMENT. A MAXIMUM OF (6) AIU UNITS CAN BE EQUIPPED PER CABINET. CABINET EQUIPAGE IS DETERMINED BY THE NUMBER OF PIDBS AVAILABLE FROM THE SM AND TRAFFIC ENGINEERING ON THE AIU.

SPECIFIC MOUNTING REQUIREMENTS

THE AIU MUST BE MOUNTED IN A "SESS-2000 GLOBAL FAC CABINET".

A J5D003FT-(-) THREE FAN UNIT IS REQUIRED AT EQL 011 WHEN (2) OR (3) AIU UNITS ARE EQUIPPED PER CABINET WHILE A J5D003FT-(-) SIX FAN UNIT IS REQUIRED AT EQL 011 WHEN (4) OR (6) AIU UNITS ARE EQUIPPED PER CABINET.

AIU UNITS CAN NOT BE GROWN IN A CABINET IN THE FIELD. THEREFORE, IF ADDITIONAL AIU CAPACITY IS REQUIRED FOR FUTURE USE, THE ADDITIONAL AIU UNITS (LESS THE CIRCUIT PACKS) SHOULD BE ORDERED AT THE TIME THE INITIAL AIU CABINET IS ORDERED.

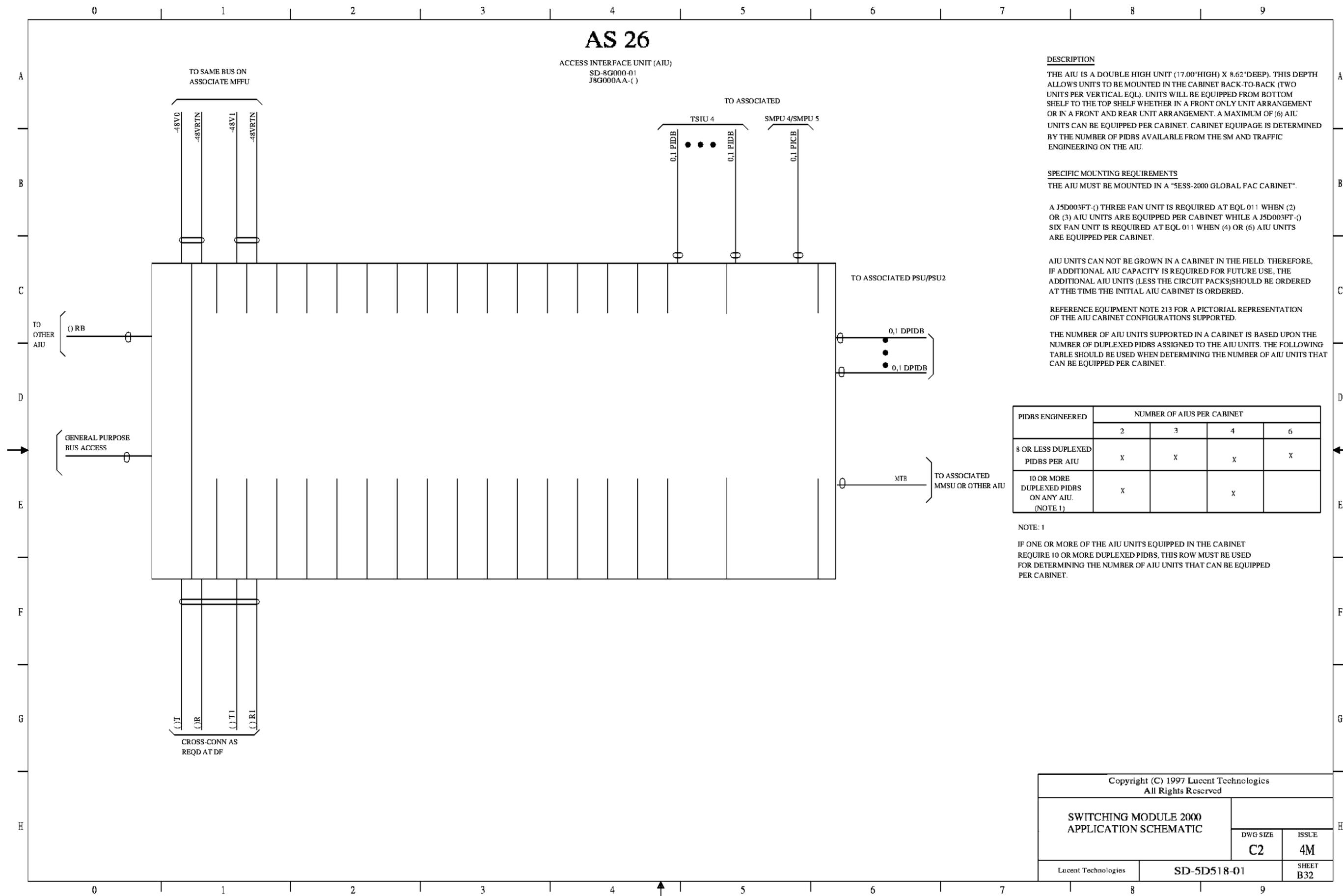
REFERENCE EQUIPMENT NOTE 213 FOR A PICTORIAL REPRESENTATION OF THE AIU CABINET CONFIGURATIONS SUPPORTED.

THE NUMBER OF AIU UNITS SUPPORTED IN A CABINET IS BASED UPON THE NUMBER OF DUPLEXED PIDBS ASSIGNED TO THE AIU UNITS. THE FOLLOWING TABLE SHOULD BE USED WHEN DETERMINING THE NUMBER OF AIU UNITS THAT CAN BE EQUIPPED PER CABINET.

PIDBS ENGINEERED	NUMBER OF AIUS PER CABINET			
	2	3	4	6
8 OR LESS DUPLEXED PIDBS PER AIU	X	X	X	X
10 OR MORE DUPLEXED PIDBS ON ANY AIU. (NOTE 1)	X		X	

NOTE: 1

IF ONE OR MORE OF THE AIU UNITS EQUIPPED IN THE CABINET REQUIRE 10 OR MORE DUPLEXED PIDBS, THIS ROW MUST BE USED FOR DETERMINING THE NUMBER OF AIU UNITS THAT CAN BE EQUIPPED PER CABINET.



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	C2	4M
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EXTENDED CONTROL AND DATA UNIT
SD-5D528-01
J5D003NF(-)

DESCRIPTION

THE XCDU IS A SINGLE 8.50" HIGH X 23" LONG X 14" DEEP SHELF WHICH PROVIDES ADDITIONAL PIDB AND PICB PORTS WITHIN A SM.

CAPACITY

THIS UNIT CAN ACCOMMODATE UP TO (3) CONTROL INTERFACE CIRCUIT PACKS AND 69 PICB PORTS PER SIDE. IT CAN ALSO ACCOMMODATE UP TO (5) EXTENDED CONTROL AND DATA CIRCUIT PACKS AND 120 PIDB PORTS PER SIDE.

FUSING REQUIREMENTS

- * STANDARD CONFIGURATION REQUIRES:
(2) 12A AND (2) 3A FUSES.
- * AUTO POWER RECOVERY CONFIGURATION:
(2) 15A AND (2) 3A FUSES.

SPECIFIC MOUNTING REQUIREMENTS

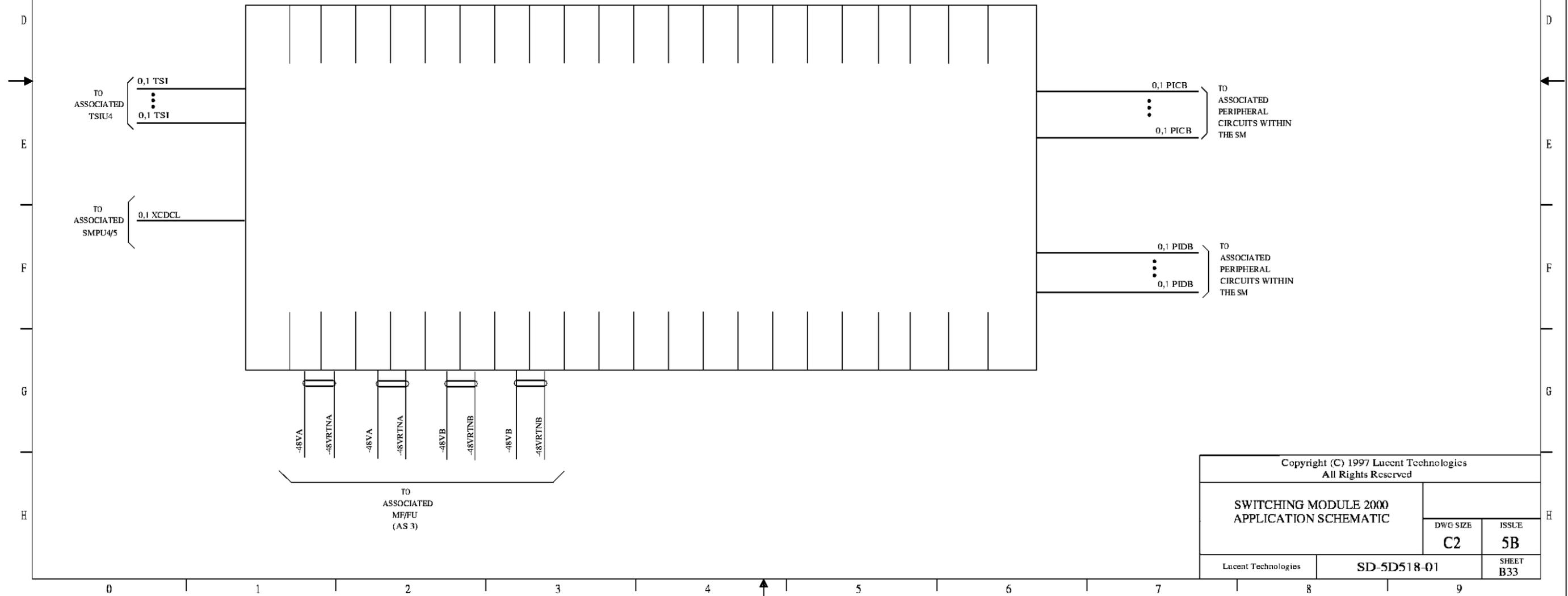
THIS UNIT CAN BE MOUNTED AT ANY EQL POSITION WITHIN A LTP CABINET. IT IS RECOMMENDED THAT OFFICES EQUIPPED WITH OVER-HEAD CABLE RACKS MOUNT THE XCDU AT THE TOP OF THE CABINET (EQL 062) WHILE OFFICES EQUIPPED ON RAISED FLOORS MOUNT THE XCDU AT THE BOTTOM OF THE CABINET (EQL 011) IN ORDER TO REDUCE CABLE CONGESTION.

A MAXIMUM OF TWO XCDU UNITS CAN BE EQUIPPED WITHIN THE SAME LTP CABINET.

A MAXIMUM OF THREE XCDU UNITS CAN BE EQUIPPED IN A SM2000.

THE XCDU CAN BE LOCATED IN ANY LTP CABINET IN A SM2000.

PERIPHERAL UNITS RECEIVING PIDB AND PICB CONNECTIONS FROM A XCDU MUST BE LOCATED IN THE SAME LINE-UP AS THEIR ASSOCIATED XCDU.



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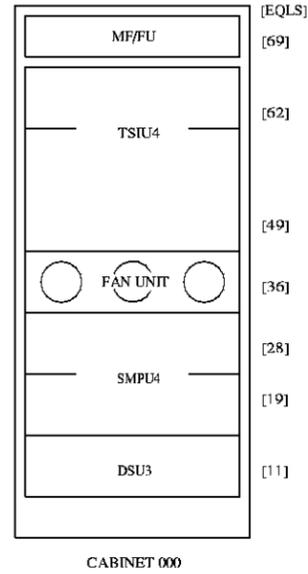
CIRCUIT NOTES:

101.

DESIG	FUSE AMP	POTENTIAL	ONE PER
BATTERY SYMBOL		VOLTAGE RANGE	

EQUIPMENT NOTES:

201. THIS DOCUMENT PERTAINS TO SM2000 IN THE GLOBAL 5ESS (72.00" (1828MM) HIGH CABINET. THIS DOCUMENT SHOWS THE MULT CABLING WHICH IS REQUIRED BETWEEN LTP AND SMC CONFIGURED CABINETS.
202. OPTION NOTES-
203. SM2000 SMC CONFIGURATION-

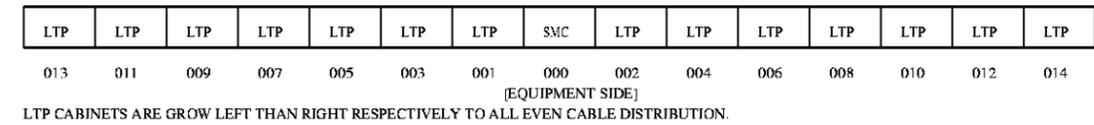


EQUIPMENT NOTES: (CONT)

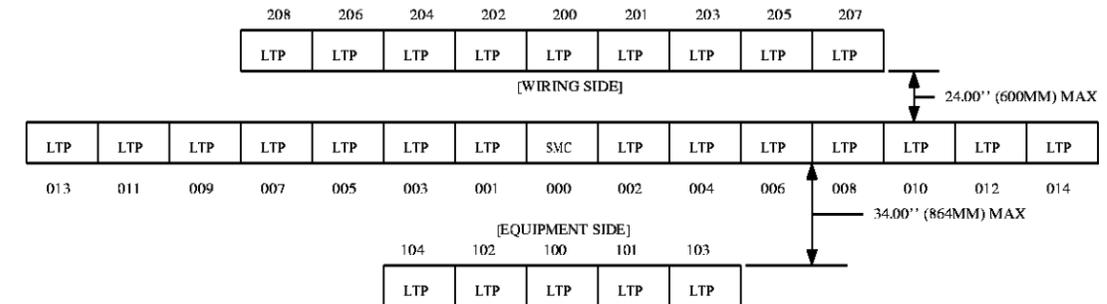
204. SM2000 LTP CABINET FAN UNIT EQUIPAGE.

I-CODE	DESCRIPTION	CAB. MTG. EQL	REMARKS
J5D003BE-()	3 FAN UNIT	EQL 11	RATED DA
J5D003BN-()	6 FAN UNIT	EQL 11	NO LONGER USED IN SM2000
J5D003BW-()	6 FAN EXHAUST UNIT	EQL 62	USED IN CONJUNCTION WITH "BN-()" FAN UNIT FOR PSU
J5D003FH-()	BI-DIRECTIONAL FAN UNIT	VARIABLE	REQUIRED FOR ISLU2
J5D003FT-()	AIU 3 FAN UNIT	EQL 11	REQUIRED IN CABINETS E/W 2 OR 3 AIU
J5D003FT-()	AIU 6 FAN UNIT	EQL 11	REQUIRED IN CABINETS E/W 4 OR 6 AIU

205. MAXIMUM SINGLE LINE-UP SM2000 CONFIGURATION:



206. MAXIMUM CROSS AISLE SM2000 CONFIGURATION:

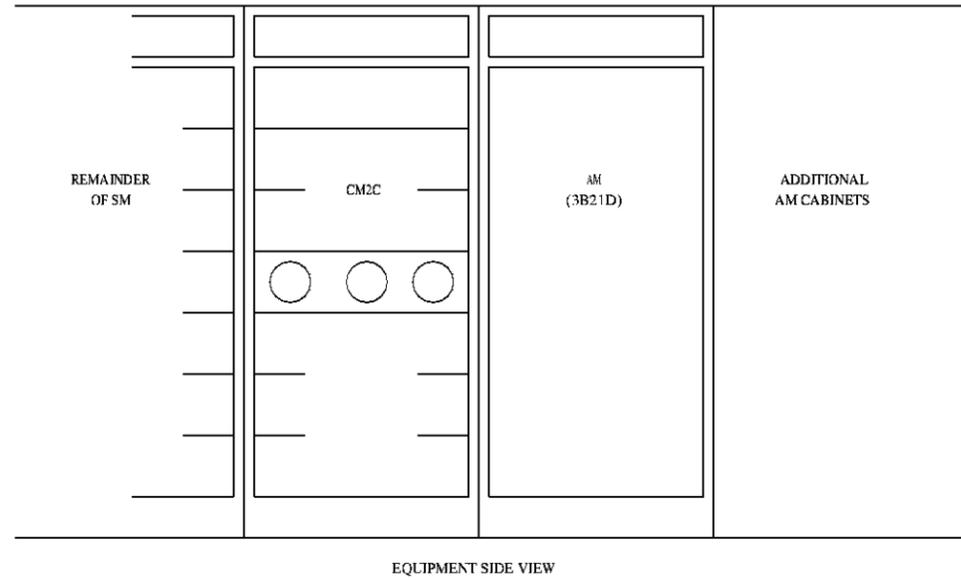


THE NUMBER OF CROSS-AISLE CABINETS IS DEPENDENT ON AISLE WIDTH. IF THE AISLE SPACING IS INCREASED AN ADDITIONAL 1.00-12.00", THE NUMBER OF CROSS-AISLE LTPS IS REDUCED BY TWO; 12.01-24.00", THE NUMBER OF CROSS-AISLE LTPS IS REDUCED BY FOUR.

207. PICB/PIDB CABLING - ALL CROSS-AISLE PICB/PIDB CABLES MUST CROSS DIRECTLY FROM THE SMC TO THE ASSOCIATED LTP 100 AND/OR 200 FOR DISTRIBUTION. THIS WILL ALLOW PICB/PIDB CABLES TO BE EMC COMPLIANT.
208. WHEN THE BELTLINE OPTION IS REQUIRED THE OPTIONAL TEL & TTY JACK PANEL IS REQUIRED IN EVERY THIRD CABINET LEFT AND RIGHT OF THE SMC AND THE SAME ACROSS THE AISLES AS REQUIRED. (LTP CABINETS TO BE EQUIPPED WITH BELTLINE OPTION ARE: 005,006,011,012,100,200,205 & 206).
209. (SEE NEXT SHEET).

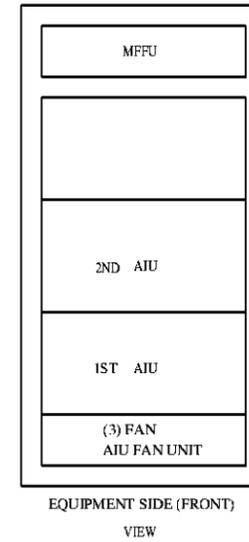
EQUIPMENT NOTES: (CONT.)

209. SMALL OFFICE OPTION CM2C SHALL MOUNT IN ONE OF THE EVEN NUMBERED LTP CABINETS.
EXAMPLE: LTP(006) LTP(008)

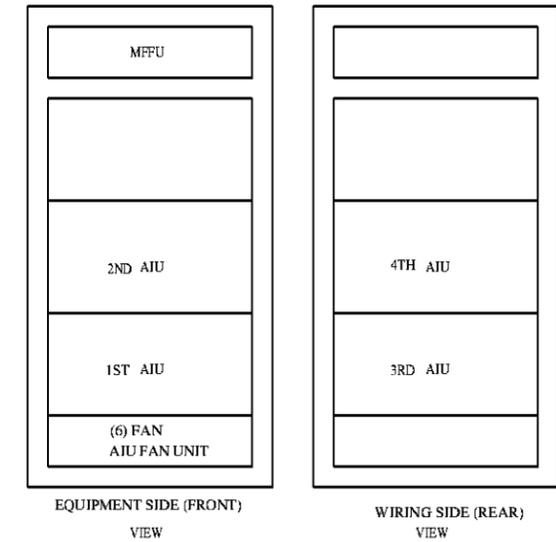


210. THE AIU CAN BE EQUIPPED IN FOUR CONFIGURATIONS ONLY:

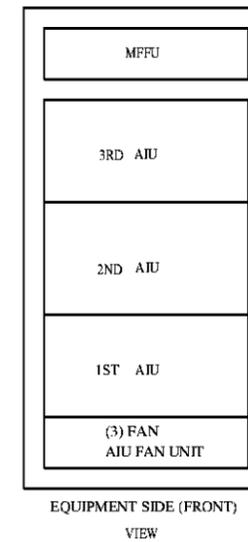
2 AIU CONFIGURATION



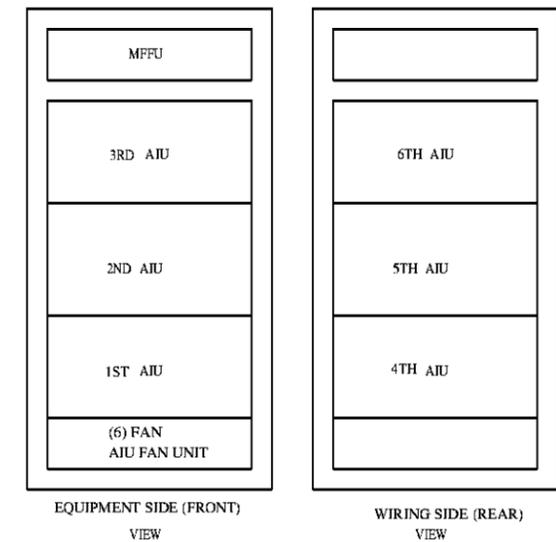
4 AIU CONFIGURATION



3AIU CONFIGURATION



6AIU CONFIGURATION



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SWITCHING MODULE 2000
APPLICATION SCHEMATIC

DWG SIZE	ISSUE
C2	4M

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0 1 2 3 4 5 6 7 8 9

INFORMATION NOTES:

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

302.	FEATURE OR OPTION	PROVIDE	
		APP FIG	APP OR WRG

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

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SWITCHING MODULE 2000
APPLICATION SCHEMATIC

DWG SIZE	ISSUE
C2	3B

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0 1 2 3 4 5 6 7 8 9