



# DESIGNATION MNEMONICS

| DESIG         | AS NO.  | DEFINITION                                       | DESIG        | AS NO. | DEFINITION  |
|---------------|---------|--|--------------|--------|---|
| -48V          | 1       | -48 VOLT POWER FEED                              | EBUS         | 3      | ETHERNET BUS  |
| -48VRTN       | 1       | -48 VOLT POWER FEED RETURN                       | ECSU         | 10     | ECHO CANCELER SIGNALING UNIT                        |
| -48VA         | 2       | -48 VOLT POWER FEED "A" BUS                      | GDSUE        | 11     | GLOBAL DIGITAL SERVICE UNIT - EXPORT                |
| -48VRTNA      | 2       | -48 VOLT POWER FEED RETURN "A" BUS               | IDCU         | 12     | INTEGRATED DIGITAL CARRIER UNIT                     |
| -48VB         | 2       | -48 VOLT POWER FEED "B" BUS                      | ISLU         | 17     | INTEGRATED SERVICES LINE UNIT                       |
| -48VRTNB      | 2       | -48 VOLT POWER FEED RETURN "B" BUS               | ISLU2        | 13     | INTEGRATED SERVICES LINE UNIT MODEL 2               |
| 0,1 PIDB      | 3       | 0 & 1 PERIPHERAL INTERFACE DATA BUS              | LDSF         | 8      | LOCAL DIGITAL SERVICE FUNCTION                      |
| 0,1 PICB      | 3       | 0 & 1 PERIPHERAL INTERFACE CONTROL BUS           | LIDB         | 13     | LINE INTERFACE DATA BUS                             |
| ( )AR         | 15      | RING LEAD ASSOCIATED WITH TRUNK CIRCUIT          | LU3          | 14     | LINE UNIT MODEL 3                                   |
| ( )AT         | 15      | TIP LEAD ASSOCIATED WITH TRUNK CIRCUIT           | M            | 4      | "M" SIGNALING LEAD ASSOCIATED WITH TRUNK CIRCUIT    |
| ( )R OR ( )R1 | 4       | RING LEAD ASSOCIATED WITH LINE CIRCUIT           | MCP          | 3      | MESSAGING, CENTRAL PROCESSOR INTERVENTION, AND PUMP |
| ( )RA         | 4       | RING LEAD ASSOCIATED WITH TEST CIRCUIT           | MFFU         | 1      | MODULAR FUSE FILTER UNIT                            |
| ( )T OR ( )T1 | 4       | TIP LEAD ASSOCIATED WITH LINE CIRCUIT            | MMSU         | 15     | MODULAR METALLIC SERVICE UNIT                       |
| ( )TA         | 4       | TIP LEAD ASSOCIATED WITH TEST CIRCUIT            | MTB          | 7      | METALLIC TEST BUS                                   |
| AAP           | 52      | AUDIBLE AND VISUAL ALARM CIRCUIT                 | MTIB         | 15     | METALLIC TEST INTERFACE BUS                         |
| ABS           | 52      | ALARM BATTERY SUPPLY                             | NETWK        | 3      | NETWORK   |
| ABSRTN        | 52      | ALARM BATTERY SUPPLY RETURN                      | PB           | 17     | PACKET BUS LEAD                                     |
| AIU           | 18      | ACCESS INTERFACE UNIT                            | PMU          | 7      | PULSE METERING UNIT                                 |
| A OR B BUS    | 54A & B | "A" OR "B" POWER FEED BUSES                      | PPMU         | 16     | PERIODIC PULSE METERING UNIT                        |
| A OR B IN     | 12      | "A" OR "B" CIRCUITS IN TO UNIT                   | PSU          | 17     | PACKET SWITCH UNIT                                  |
| A OR B OUT    | 12      | "A" OR "B" CIRCUITS OUT OF UNIT                  | RAF          | 8      | RECORDED ANNOUNCEMENT FEATURE                       |
| ASU2          | 51      | ALARM STATUS UNIT                                | RT           | 5      | REMOTE TERMINAL                                     |
| ATUE          | 4       | ANALOG TRUNK UNIT - EXPORT                       | S            | 4      | "S" SIGNALING LEAD ASSOCIATED WITH TRUNK CIRCUIT    |
| CAB( )        | 53A & B | CABINET NUMBER "(XXX)"                           | SCAN/ALM     | 2      | SCAN/ALARM CABLE                                    |
| C/D           | 3       | CONTROL/DISPLAY                                  | SERV GRP ( ) | 5      | SERVICE GROUP ( )                                   |
| CLK           | 3       | CLOCK  | SG           | 4      | "SG" SIGNALING LEAD ASSOCIATED WITH TRUNK CIRCUIT   |
| DCLU          | 5       | DIGITAL CARRIER LINE UNIT                        | SMPU4        | 3      | SWITCHING MODULE PROCESSOR UNIT MODEL 4             |
| DCTU          | 7       | DIRECTLY CONNECTED TEST UNIT                     | STCL         | 3      | SERIAL TIMESLOT INTERCHANGE CONTROL LINK            |
| DF            | 13      | DISTRIBUTION FRAME                               | TSIU4        | 3      | TIME SLOT INTERCHANGE UNIT MODEL 4                  |
| DFI           | 5       | DIGITAL FACILITIES INTERFACE                     | SMPU5        | 6      | SWITCHING MODULE PROCESSOR UNIT MODEL 5             |
| DLTU3         | 6       | DIGITAL LINE TRUNK UNIT MODEL 3                  | XCDU         | 21     | EXTENDED CONTROL AND DATA UNIT                      |
| DIPDB         | 12      | DIRECTLY CONNECTED PERIPHERAL INTERFACE DATA BUS | XCDCL        | 21     | EXTENDED CONTROL AND DATA CONTROL LINK              |
| DSU2          | 8       | DIGITAL SERVICE UNIT 2                           | RB           | 26     | RING BUS  |
| DSU3          | 9       | DIGITAL SERVICE UNIT MODE 3                      |              |        |   |
| DSX           | 6       | DIGITAL CROSS CONNECT                            |              |        |   |
| E             | 4       | "E" SIGNALING LEAD ASSOCIATED TRUNK CIRCUIT      |              |        |   |

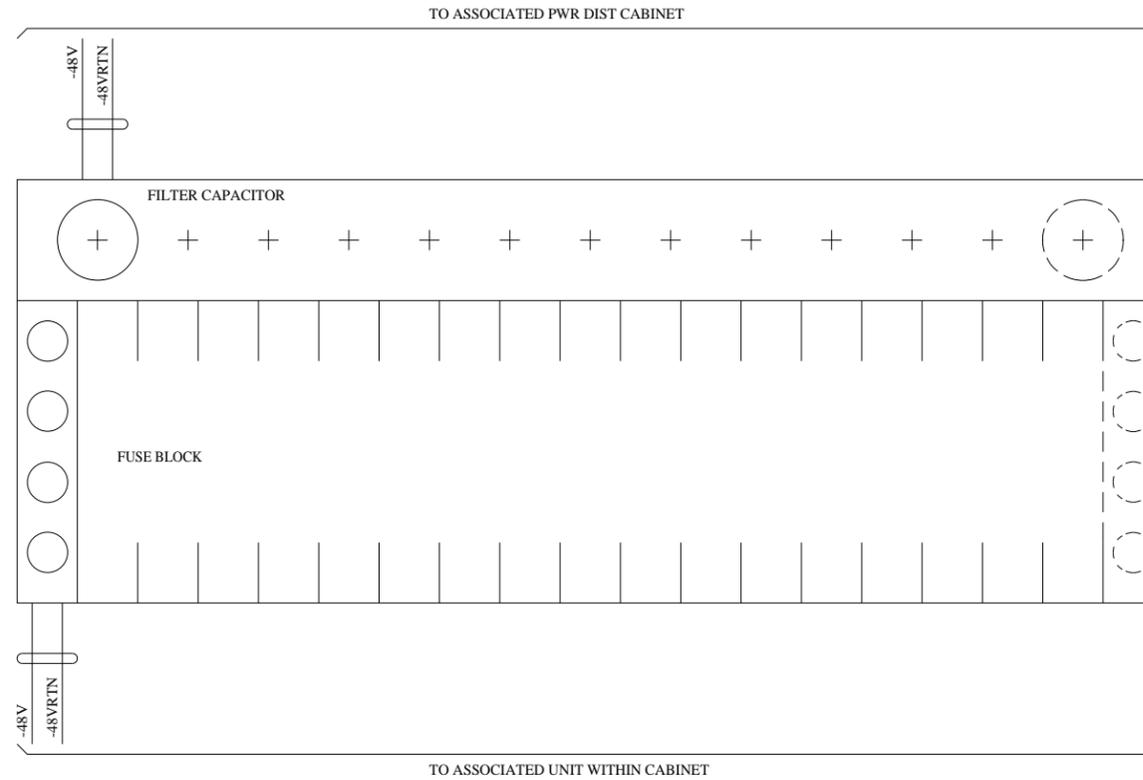
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| AWS-SM2000<br>APPLICATION SCHEMATIC                           |             | JULY 7, 1997 |
| DWG SIZE<br>C2  | ISSUE<br>5B |              |
| Lucent Technologies   | SD-5D534-01 | SHEET<br>A2  |

# AS 1

MODULAR FUSE FILTER UNIT (MFFU)  
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.



**DESCRIPTION**

THIS MFFU IS A SINGLE SHELF WHICH PROVIDES FUSES AND FILTER CAPACITORS AT -48V TO POWER VARIOUS UNITS WITHIN A CABINET.

**CAPACITY**

THIS MFFU 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 THE CABINET.

**FUSING REQUIREMENTS**

THE MFFU IS FUSED AT THE PWR DIST CABINET AS REQUIRED

**SPECIFIC MOUNTING REQUIREMENTS**

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

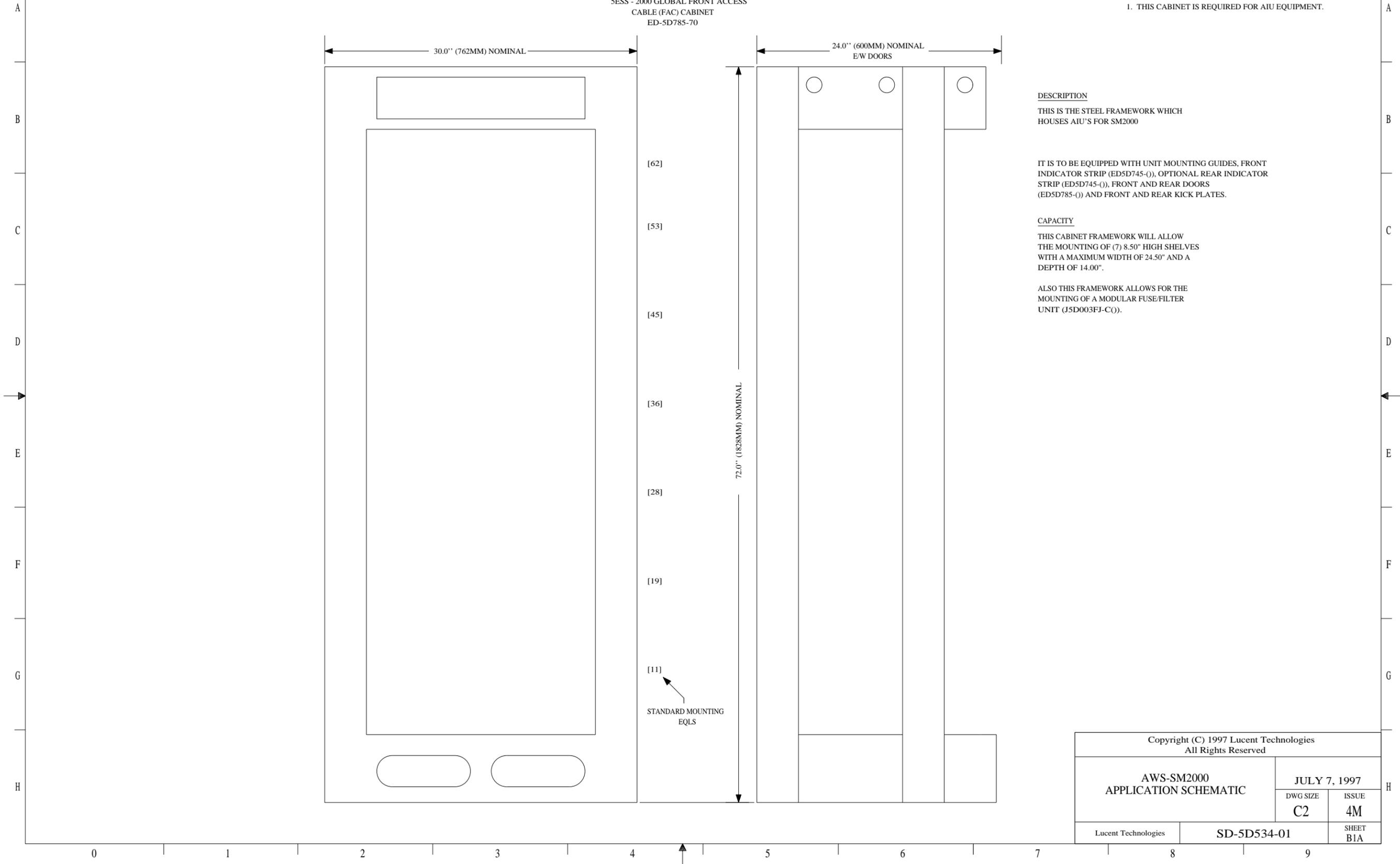
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| AWS-SM2000<br>APPLICATION SCHEMATIC                           |             | DWG SIZE<br>C2             |
| Lucent Technologies   | SD-5D534-01 | ISSUE<br>3M<br>SHEET<br>B1 |

# AS 1A

5ESS - 2000 GLOBAL FRONT ACCESS  
CABLE (FAC) CABINET  
ED-5D785-70

NOTE:

1. THIS CABINET IS REQUIRED FOR AIU EQUIPMENT.



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-(-)), FRONT AND REAR DOORS  
(ED5D785-(-)) AND FRONT AND REAR KICK PLATES.

CAPACITY

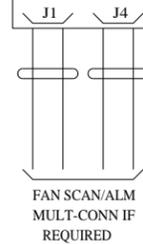
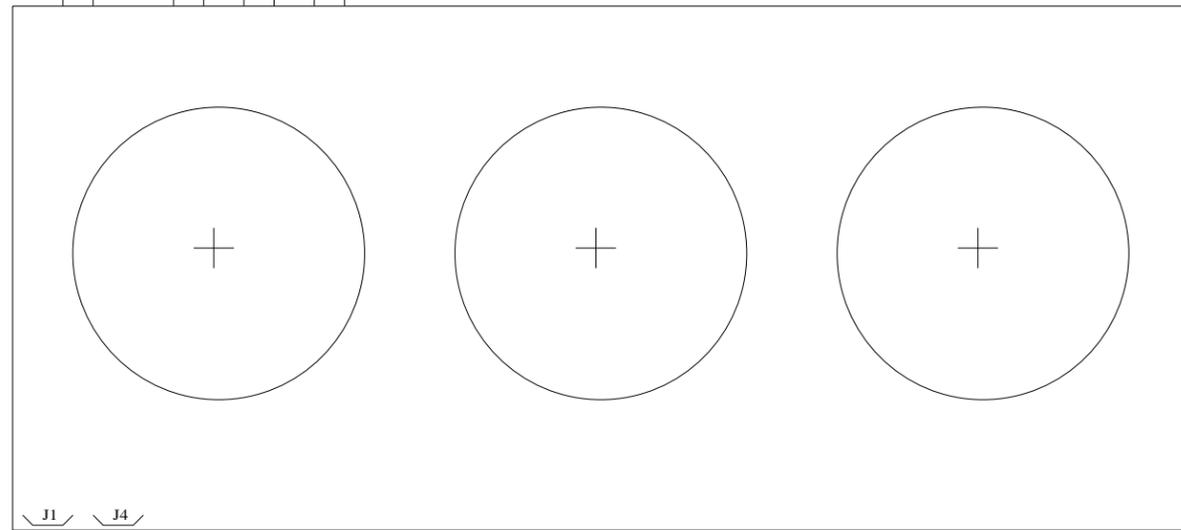
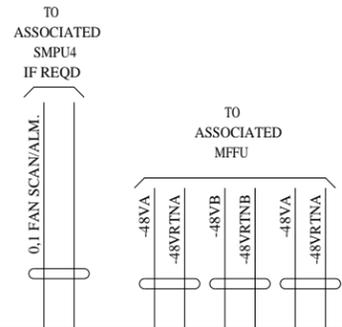
THIS CABINET FRAMEWORK WILL ALLOW  
THE MOUNTING OF (7) 8.50" HIGH SHELVES  
WITH A MAXIMUM WIDTH OF 24.50" AND A  
DEPTH OF 14.00".

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

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| AWS-SM2000<br>APPLICATION SCHEMATIC                           | JULY 7, 1997   |              |
|   | DWG SIZE<br>C2 | ISSUE<br>4M  |
| Lucent Technologies   | SD-5D534-01    | SHEET<br>B1A |

# AS 2A

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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| AWS-SM2000<br>APPLICATION SCHEMATIC                           |             | DWG SIZE<br>C2             |
| Lucent Technologies   | SD-5D534-01 | ISSUE<br>3M<br>SHEET<br>B2 |

# AS 2B

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

TO  
ASSOCIATED  
SMPU4  
IF REQD

0.1 FAN SCAN/ALM.

TO  
ASSOCIATED  
MFU

-48VA  
-48VRTNA  
-48VB  
-48VRTNB  
-48VA  
-48VRTNA

J1 J4

FAN SCAN/ALM  
MULT-CONN IF  
REQUIRED

### 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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AWS-SM2000  
APPLICATION SCHEMATIC

DWG SIZE  
C2

ISSUE  
3M

Lucent Technologies

SD-5D534-01

SHEET  
B3

# AS 2B

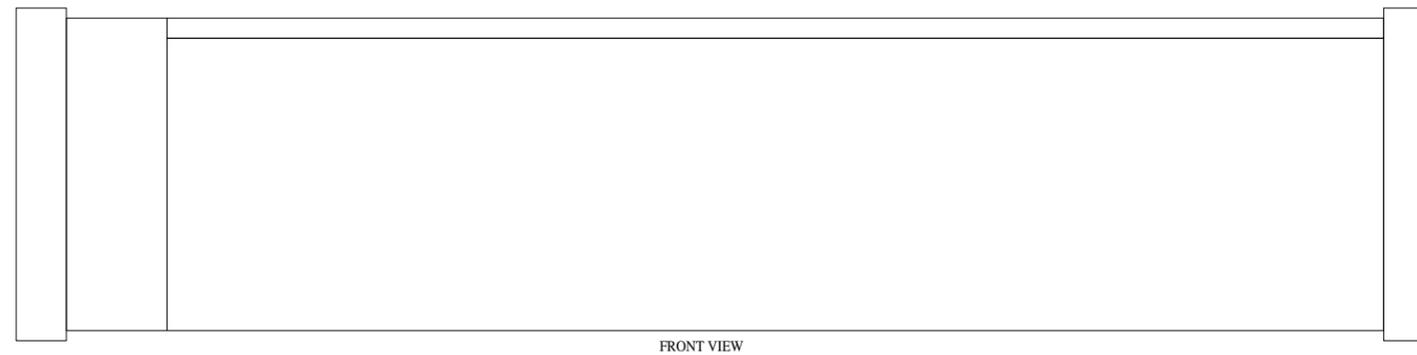
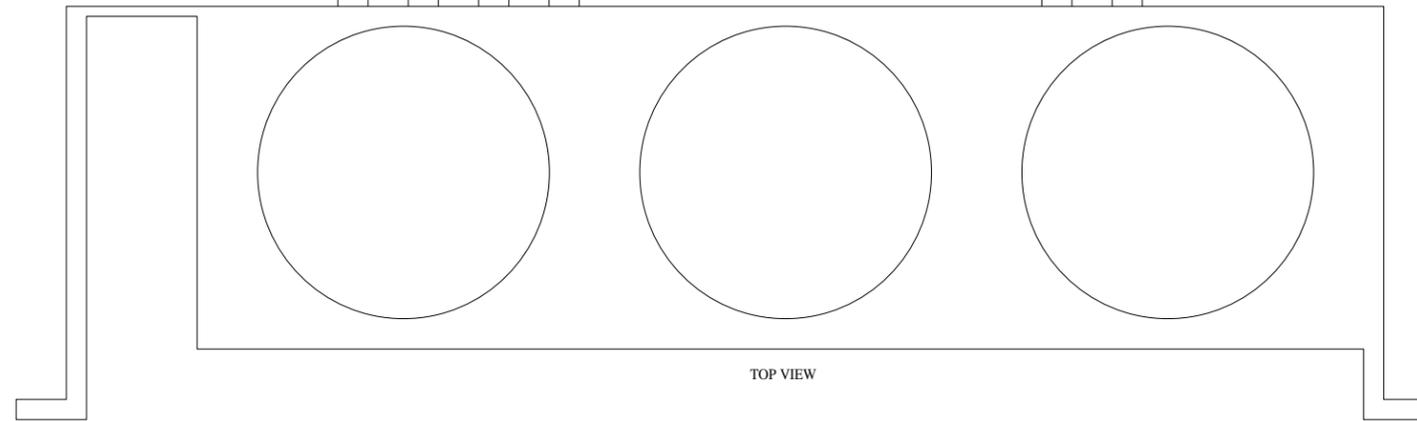
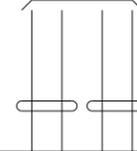
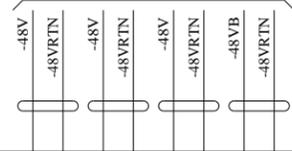
3 FAN AIU FAN UNIT  
SD-5D546-01  
J5D003FT(-)

**NOTE:**

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

TO  
ASSOCIATED  
MFFU

FAN SCAN/ALM MULT



**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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| AWS-2M2000<br>APPLICATION SCHEMATIC                           |             |              |
| DWG SIZE<br>C2  | ISSUE<br>3M |              |
| Lucent Technologies   | SD-5D534-01 | SHEET<br>B3A |

# AS 2C

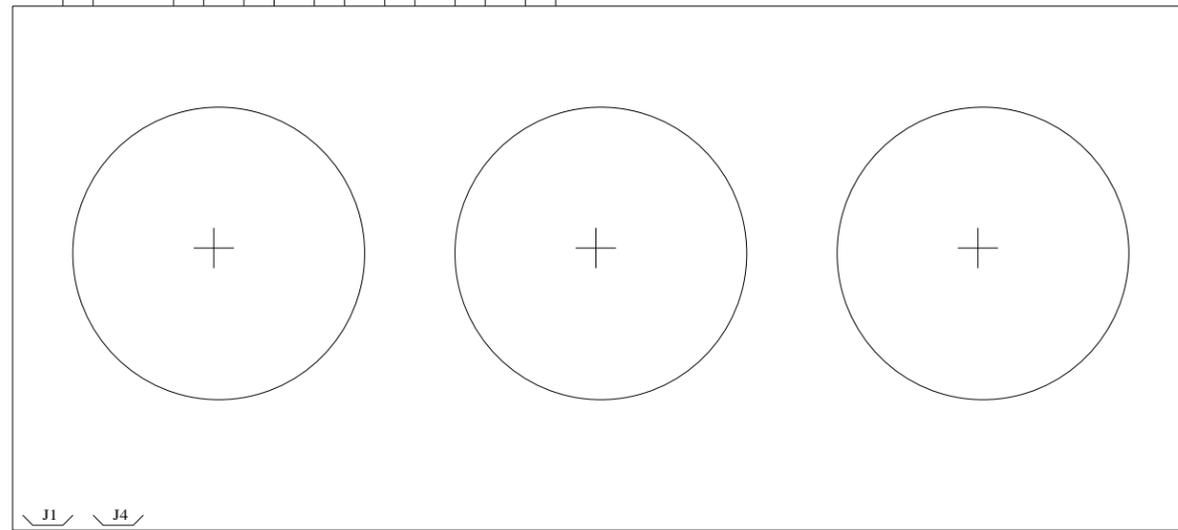
6 FAN UNIT  
SD-5D081-01  
J5D003BN(-)

TO  
ASSOCIATED  
SMPU4  
IF REQD

0.1 FAN SCAN/ALM.

TO  
ASSOCIATED  
MFU

-48VA  
-48VRTNA  
-48VB  
-48VRTNB  
-48VA  
-48VRTNA  
-48VB  
-48VRTNB  
-48VA  
-48VRTNA  
-48VB  
-48VRTNB



J1 J4

FAN SCAN/ALM  
MULT-CONN IF  
REQUIRED

### 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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AWS-SM2000  
APPLICATION SCHEMATIC

DWG SIZE  
C2

ISSUE  
3M

Lucent Technologies

SD-5D534-01

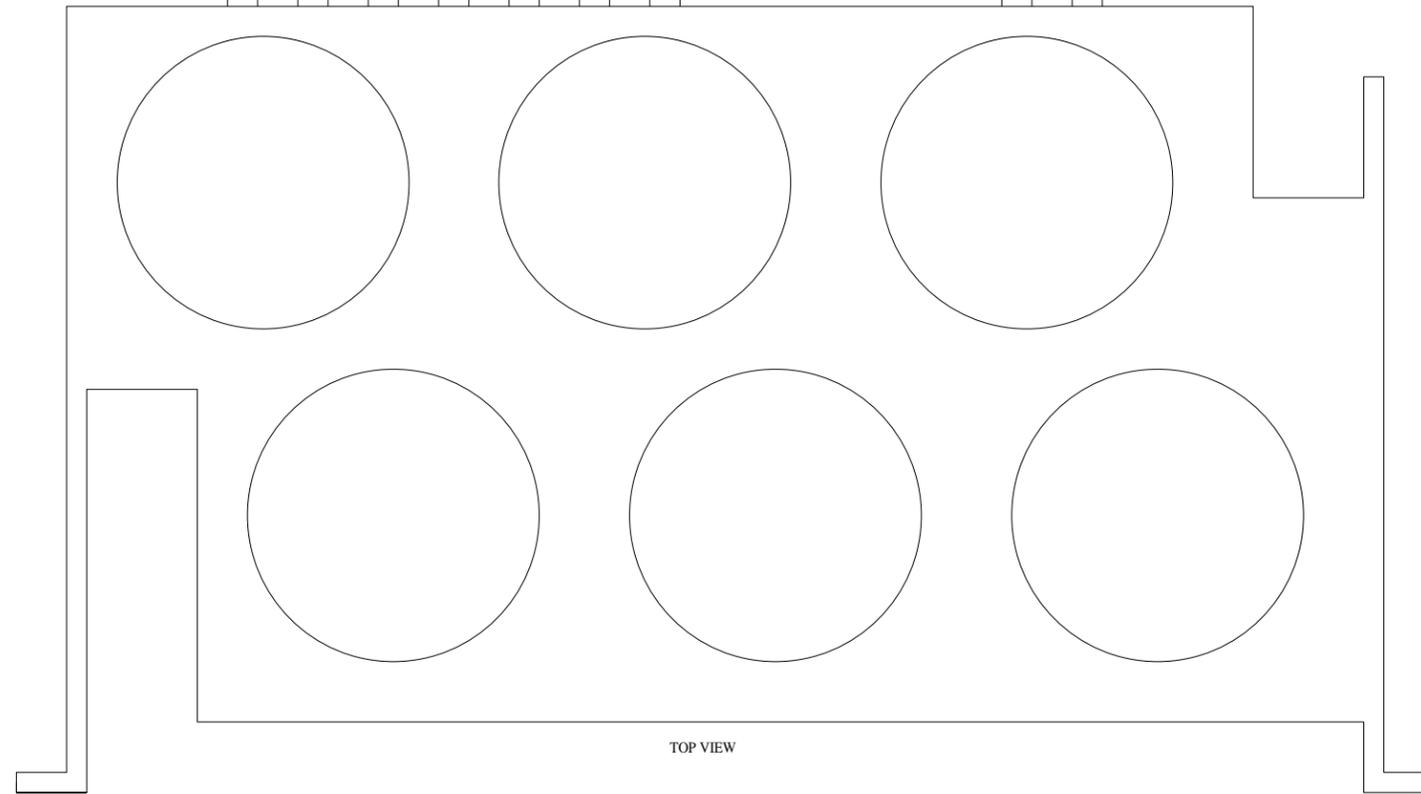
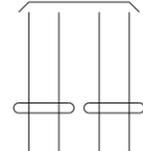
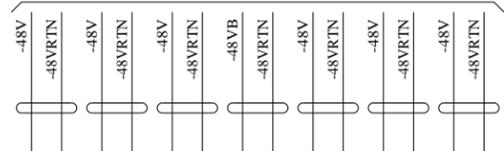
SHEET  
B4

# AS 2C

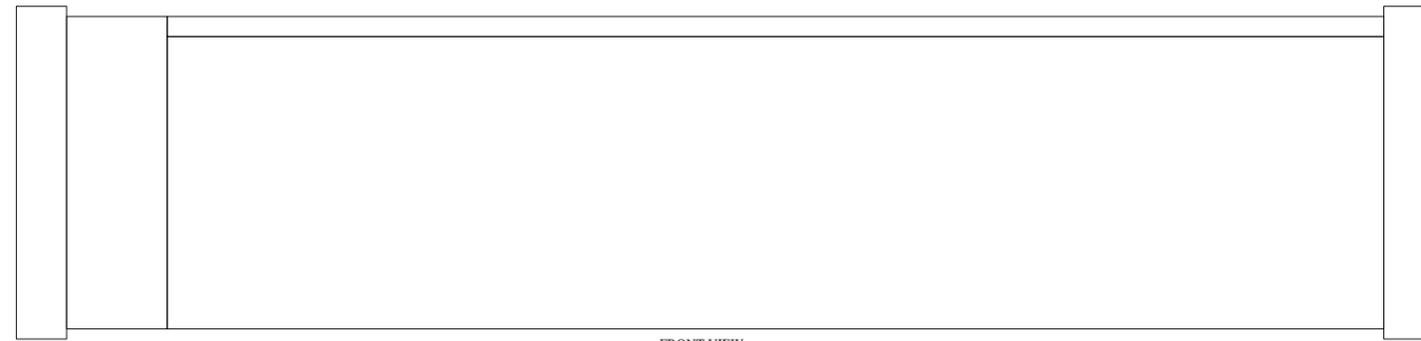
6 FAN AIU FAN UNIT  
SD-5D546-01  
J5D003FT-( )

TO  
ASSOCIATED  
MFU

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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APPLICATION SCHEMATIC

|          |       |
|----------|-------|
| DWG SIZE | ISSUE |
| C2       | 3M    |

Lucent Technologies

SD-5D534-01

|       |
|-------|
| SHEET |
| B4A   |

# AS 2D

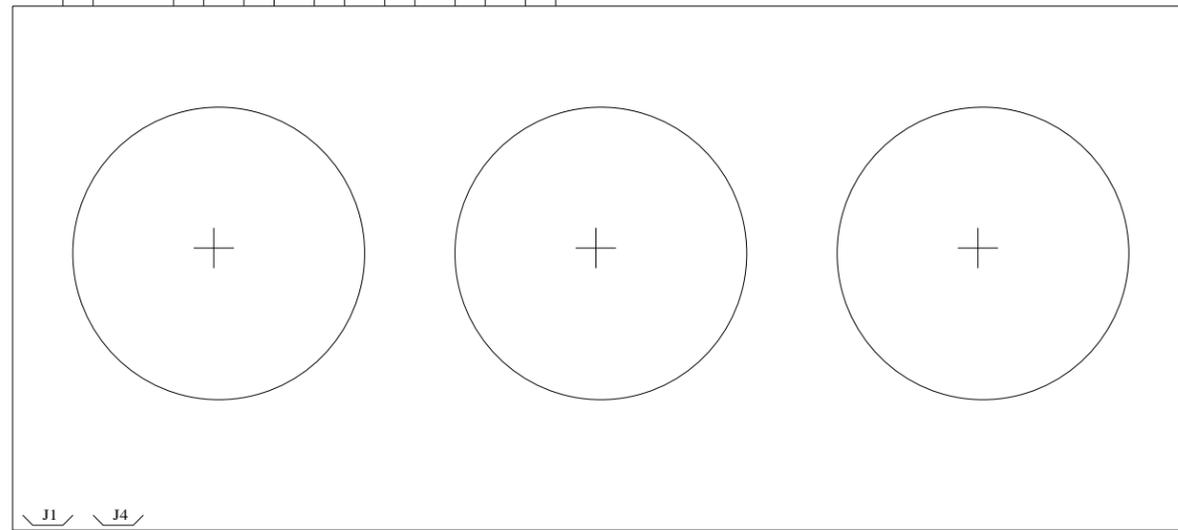
6 FAN EXHAUST FAN UNIT  
SD-5D162-01  
J5D003BW(-)

TO  
ASSOCIATED  
SMPU4  
IF REQD

0.1 FAN SCAN/ALM.

TO  
ASSOCIATED  
MFFU

-48VA  
-48VRTNA  
-48VB  
-48VRTNB  
-48VA  
-48VRTNA  
-48VB  
-48VRTNB  
-48VA  
-48VRTNA  
-48VB  
-48VRTNB



### 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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AWS-SM2000  
APPLICATION SCHEMATIC

DWG SIZE  
C2

ISSUE  
3M

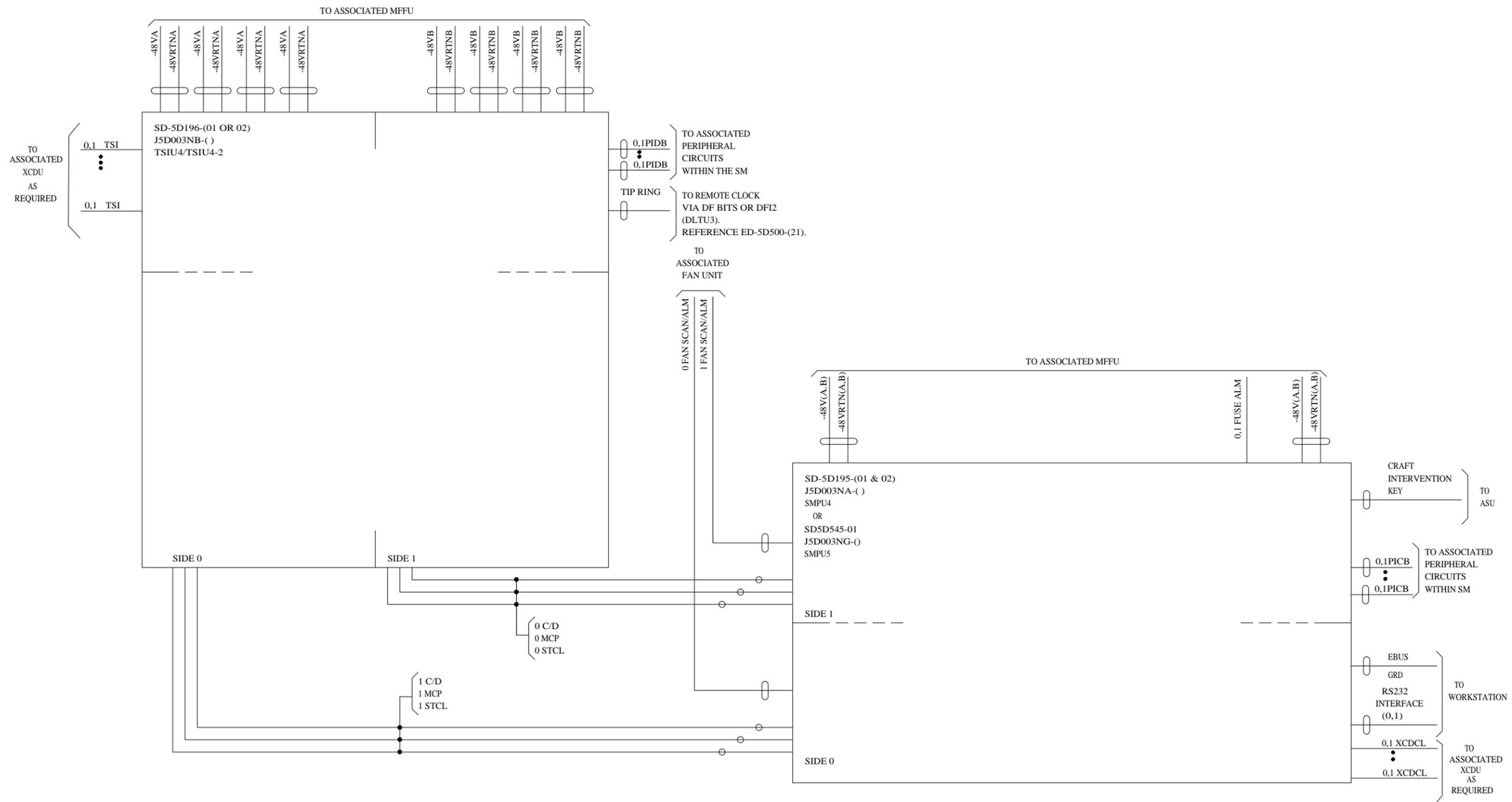
Lucent Technologies

SD-5D534-01

SHEET  
B5

# PART OF AS 3

SWITCHING MODULE PROCESSOR UNIT MODEL 4 (SMPU4) OR (SMPU5)  
AND TIME SLOT INTERCHANGE UNIT MODEL 4 (TSIU4/TSIU4-2)



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| AWS-SM2000<br>APPLICATION SCHEMATIC                           |             | ISSUE<br><b>5B</b> |
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# PART OF AS 3

**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 TSU4/TSU4-2.

**TSU4/TSU4-2: 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 TSU4.

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# AS 4

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

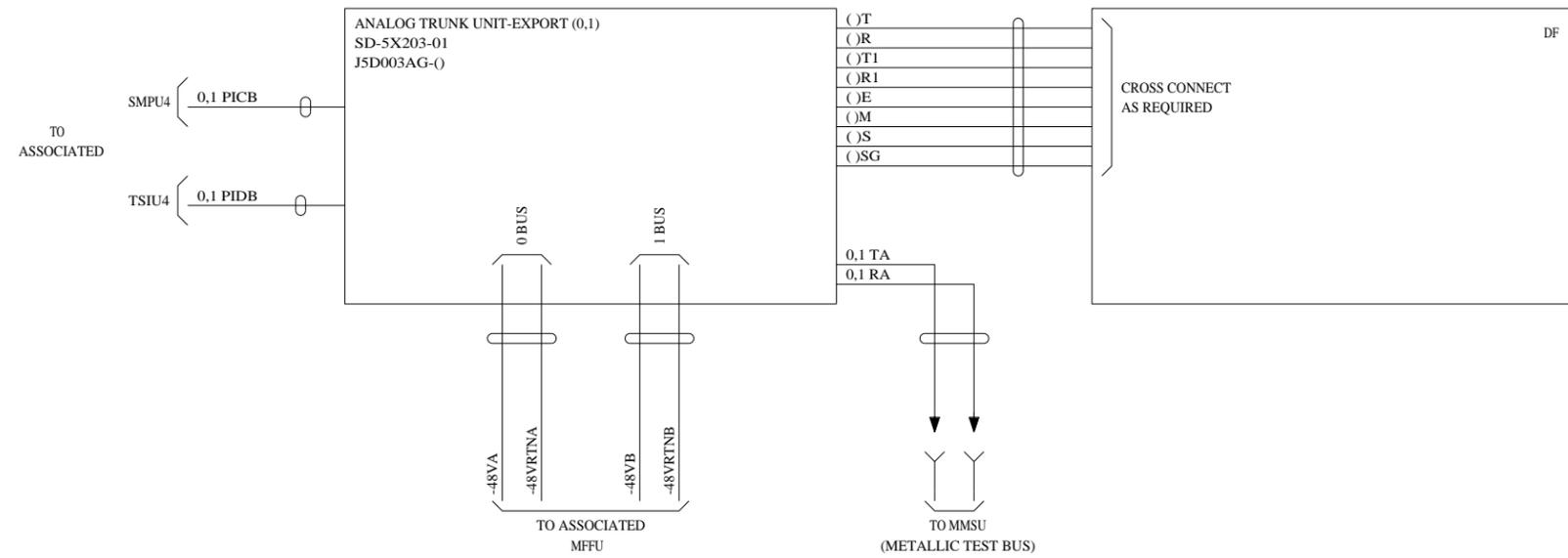
EACH UNIT CONTAINS TWO SIMPLEX SERVICE GROUPS CAPABLE OF TERMINATING 32 TRUNKS EACH.

FUSING REQUIREMENT

SEE SD-5X203-01 FOR FUSING REQUIREMENTS.

SPECIFIC MOUNTING REQUIREMENTS

ANY AVAILABLE POSITION IN AN LTP CABINET.



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# AS 5

DIGITAL CARRIER LINE UNIT  
(DCLU)

DESCRIPTION

THE DCLU CONSISTS OF 2 TO 3 8-1/2 INCH HIGH SHELVES. THE FIRST 2 SHELVES CONSTITUTES 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 (RT). 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

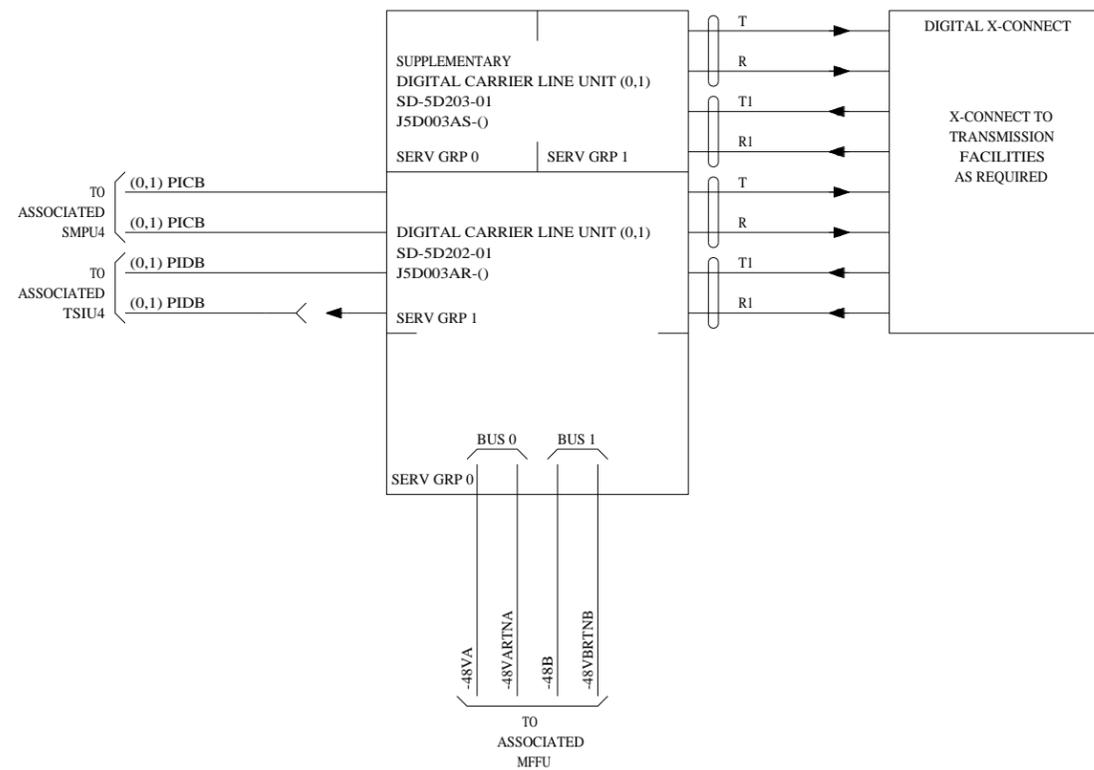
A MAXIMUM OF 6 RT'S MAY BE TERMINATED ON A DCLU (MODE I OR MODE II OR A MIX OF MODE I AND MODE II). SEE ASSIGNMENT RULES SD-5D007-01.

FUSING REQUIREMENTS

SEE SD-5D202-01 FOR FUSING REQUIREMENTS.

SPECIFIC MOUNTING REQUIREMENTS

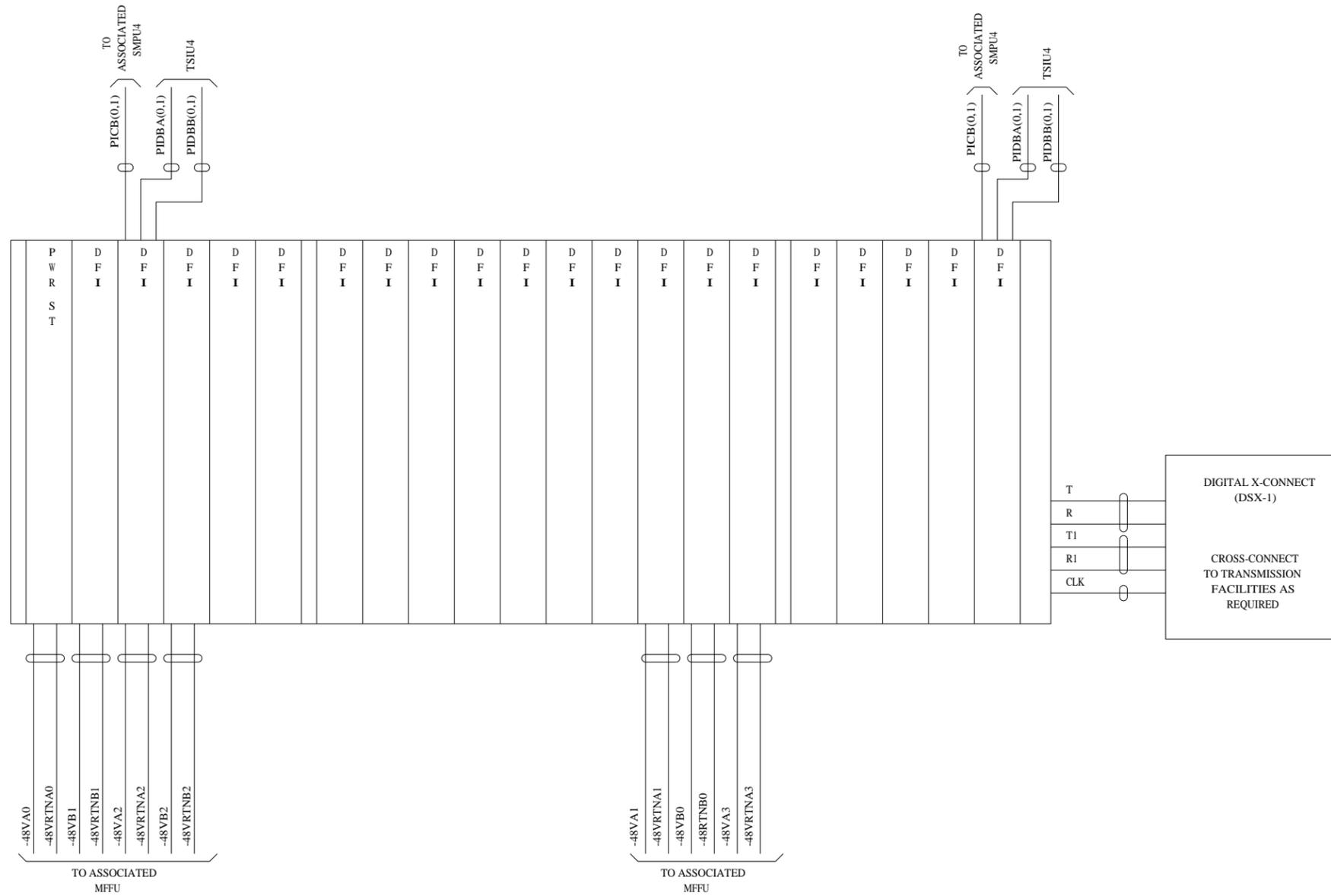
THE J5D003AR-() MAY BE MOUNTED IN ANY TWO AVAILABLE CONSECUTIVE VERTICAL UNIT POSITIONS IN A LTP CABINET. THE J5D003AS-(), WHEN REQUIRED, SHALL BE MOUNTED IN A UNIT POSITION DIRECTLY ABOVE THE J5D003AR-(). ON AN OPTIONAL BASIS, THE UNIT POSITION DIRECTLY ABOVE THE J5D003AR-() MAY BE RESERVED FOR FIELD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



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| AWS-SM2000<br>APPLICATION SCHEMATIC                           |             |             |
| DWG SIZE<br>C2  | ISSUE<br>3M |             |
| Lucent Technologies   | SD-5D534-01 | SHEET<br>B9 |

# AS 6

DIGITAL LINE TRUNK UNIT MODEL 3 (DLTU3)  
SD-5D501-01  
J5D003FM-( )



**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  
SEE ED5D693-10.

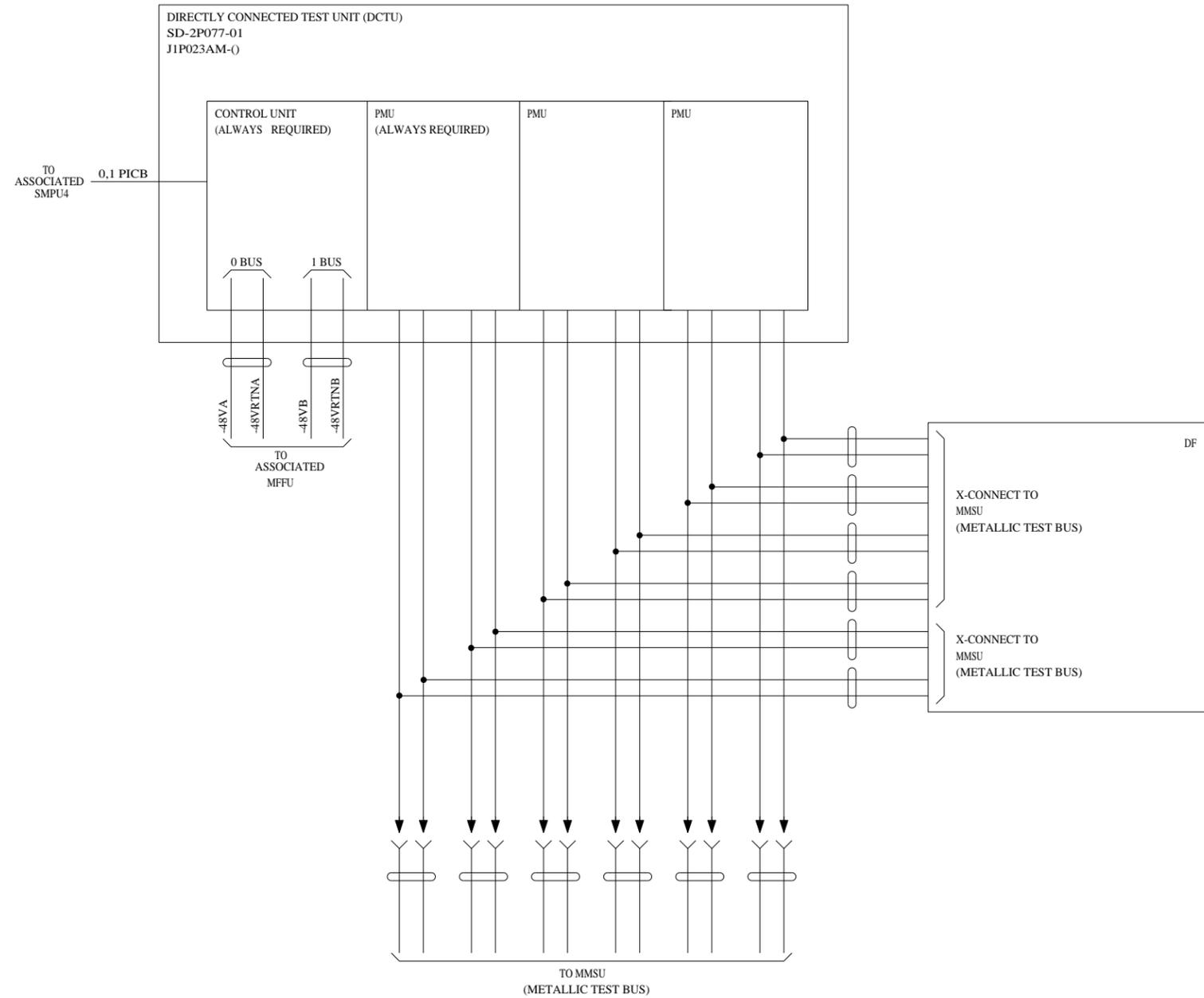
**SPECIFIC MOUNTING REQUIREMENTS**  
MAXIMUM NUMBER OF DLTU3 MOUNTED IN ONE LTP CABINET IS THREE.  
THIS MINIMIZES CABLE CONGESTION. (THIS IS REL. 1 MAXIMUM EQUIPAGE.)

- 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 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 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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| AWS-SM2000<br>APPLICATION SCHEMATIC                           |  | DWG SIZE<br>C2 |
| Lucent Technologies   |  | ISSUE<br>3M    |
| SD-5D534-01   |  | SHEET<br>B10   |

# AS 7

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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| AWS-SM2000<br>APPLICATION SCHEMATIC                           |             | DWG SIZE<br>C2              |
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# AS 8

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:

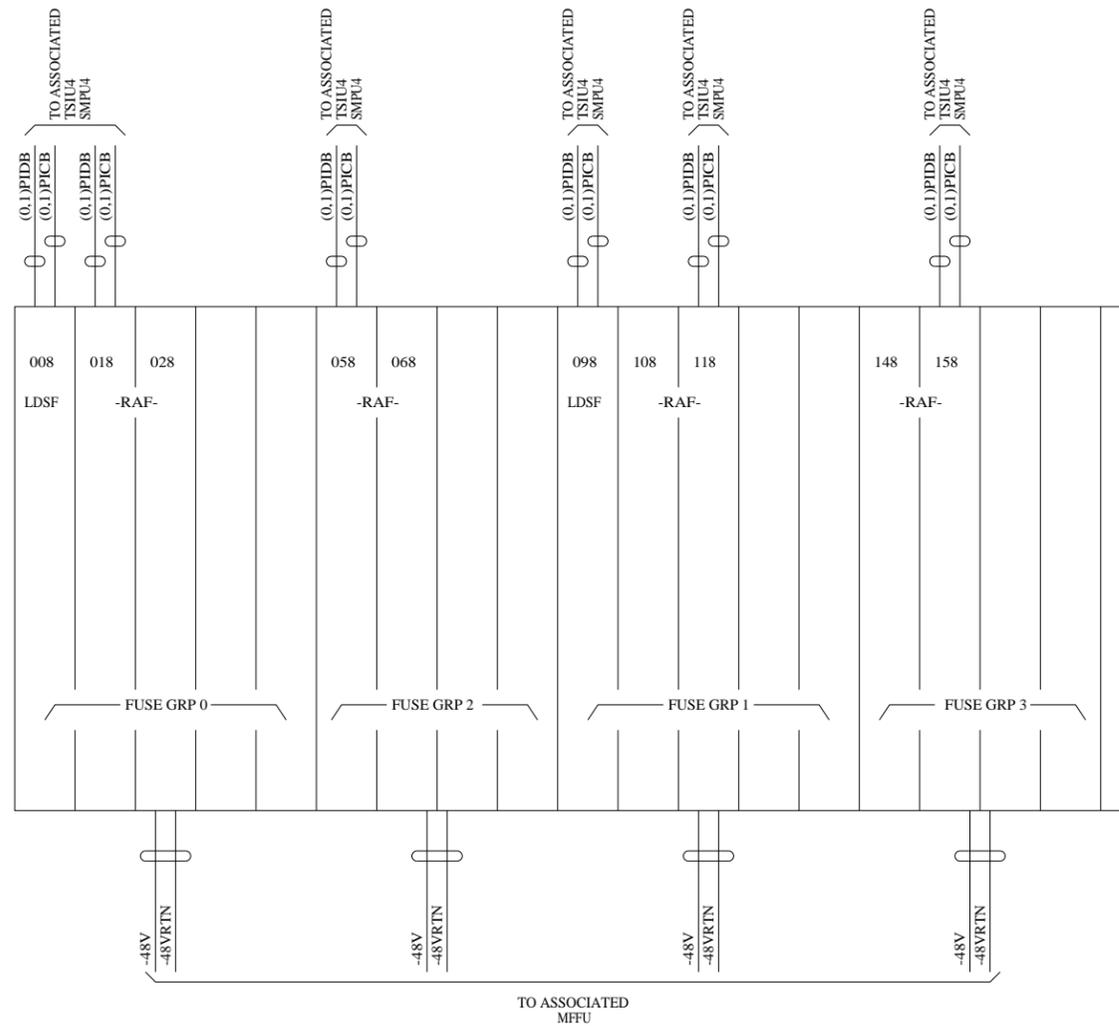
1. LDSU FUNCTION SERVICE GROUPS 0 & 1.
2. RAF OPTION A FOR OSPS CAN BE EQUIPPED IN SERVICE GROUP 0, 1, 2, & 3 (4 MAX., 2 MIN.).

### FUSING REQUIREMENTS

SEE SD-5D092-01.

### SPECIFIC MOUNTING REQUIREMENTS

1. DSU2 MOUNTS IN THE LTP CABINET.
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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| AWS-SM2000<br>APPLICATION SCHEMATIC                           |             | DWG SIZE<br>C2              |
| Lucent Technologies   | SD-5D534-01 | ISSUE<br>3M<br>SHEET<br>B12 |

# AS 9

DIGITAL SERVICE UNIT MODEL 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**

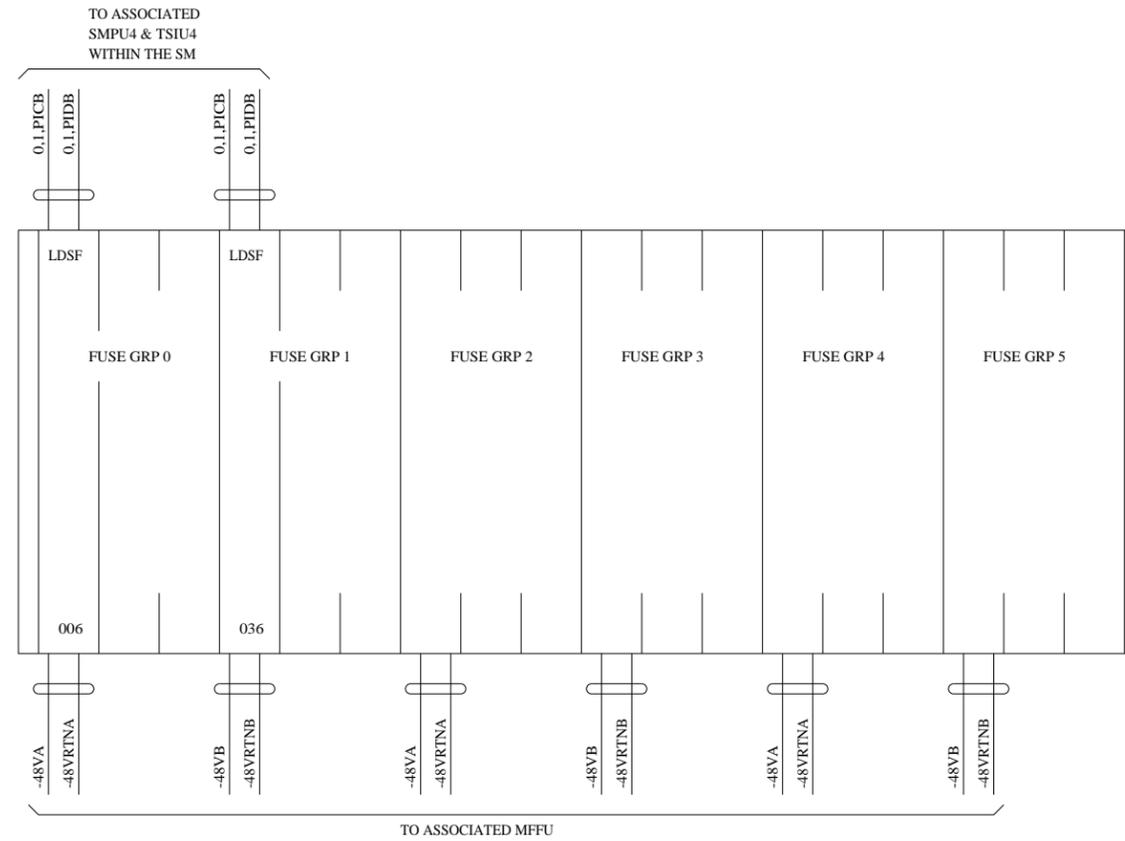
THIS UNIT HAS (6) FUSE GROUP WHICH CAN BE EQUIPPED WITH (3) CIRCUIT PACKS EACH-  
1. LOCAL DIGITAL SERVICE FUNCTION IS FUSE GRP 0 & 1, EQLS 006 & 036.

**FUSING REQUIREMENTS**

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

**SPECIFIC MOUNTING REQUIREMENTS**

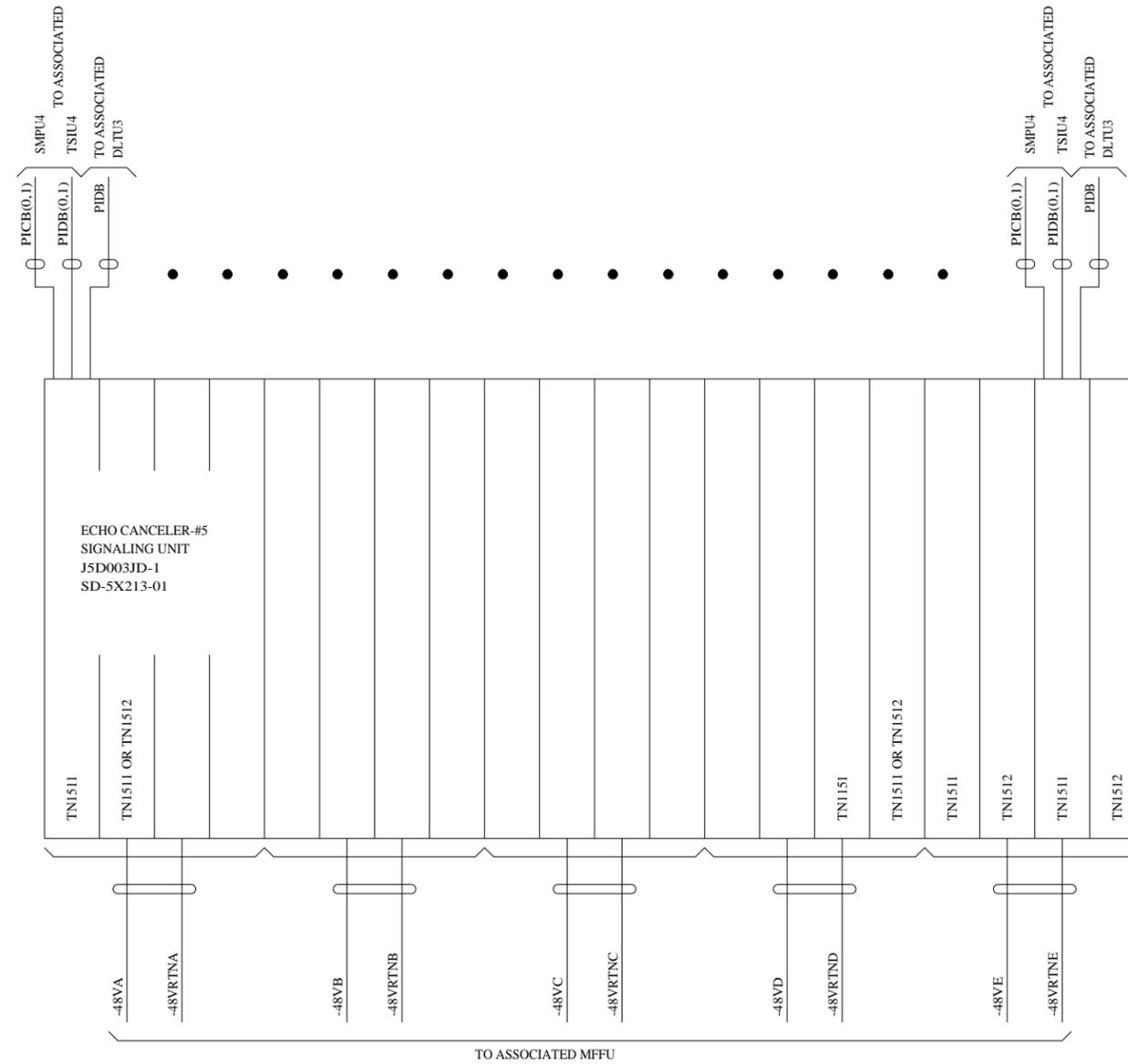
IN AN SMC CONFIGURATION THIS UNIT MOUNTS IN CABINET EQL 011



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| Lucent Technologies   |  | ISSUE<br>3M    |
| SD-5D534-01   |  | SHEET<br>B13   |

# AS 10

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 DLTU3. PIDB/PICB CABLING ALWAYS COMES FROM THE SLOT WITH A TN1511 PACK IN IT.

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APPLICATION SCHEMATIC

|           |       |
|-----------|-------|
| DWG SIZE  | ISSUE |
| C2        | 3M    |
| SHEET B14 |       |

Lucent Technologies

SD-5D534-01

# AS 11

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

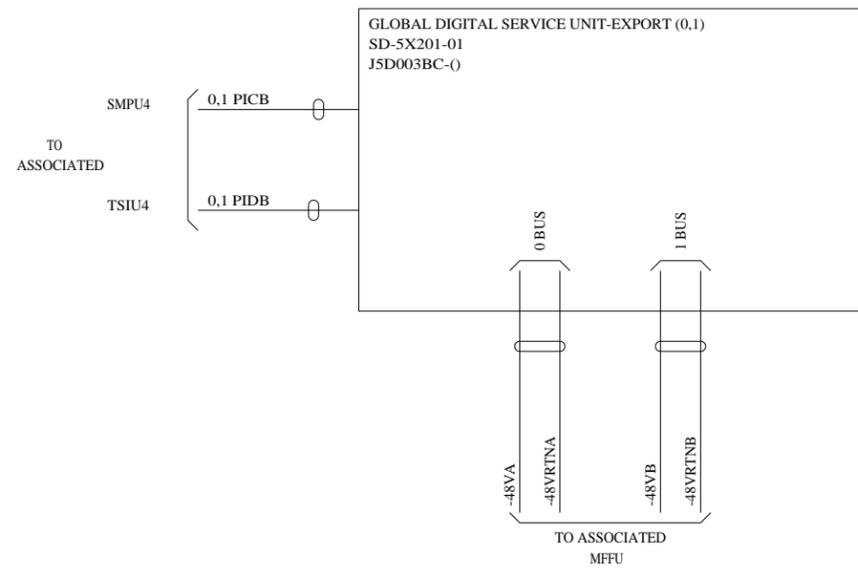
EACH GLOBAL DSU MAY CONTAIN A MAXIMUM OF 10 CONFERENCE CIRCUITS PER SERVICE GROUP OR 2 TRANSMISSION TEST FUNCTIONS PER SERVICE GROUP OR 1 TRANSMISSION TEST FUNCTION AND 8 CONFERENCE CIRCUITS PER SERVICE GROUP.

FUSING REQUIREMENT

SEE SD-5X201-01.

SPECIFIC MOUNTING REQUIREMENTS

ANY AVAILABLE POSITION IN AN LTP CABINET.



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| AWS-SM2000<br>APPLICATION SCHEMATIC                           |             | DWG SIZE<br>C2              |
| Lucent Technologies   | SD-5D534-01 | ISSUE<br>3M<br>SHEET<br>B15 |

# AS 12

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

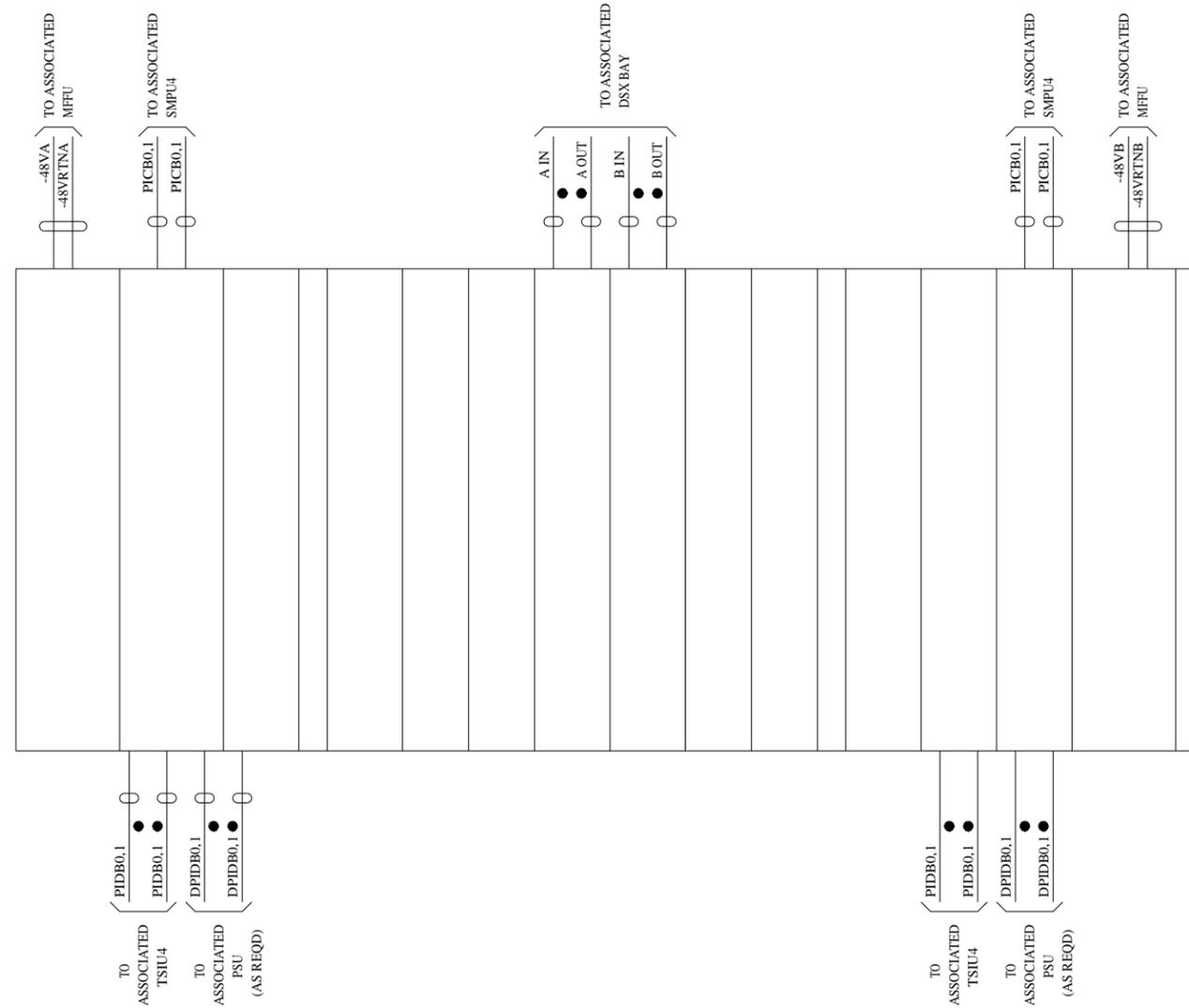
IDCU CAN TERMINATE (31) REMOTE TERMINALS AND A MAXIMUM OF 40 DSIS  
(2) LOOP SIDE INTERFACE PACKS ARE REQD PER 20 DSIS (MAX 4)  
(2) ELECTRICAL LINE INTERFACE PACKS ARE REQD FOR THE SECOND 20 DSIS AND PIDB PORTS 9-15.

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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| AWS-SM2000<br>APPLICATION SCHEMATIC                           |             | DWG SIZE<br>C2              |
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# AS 13

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.

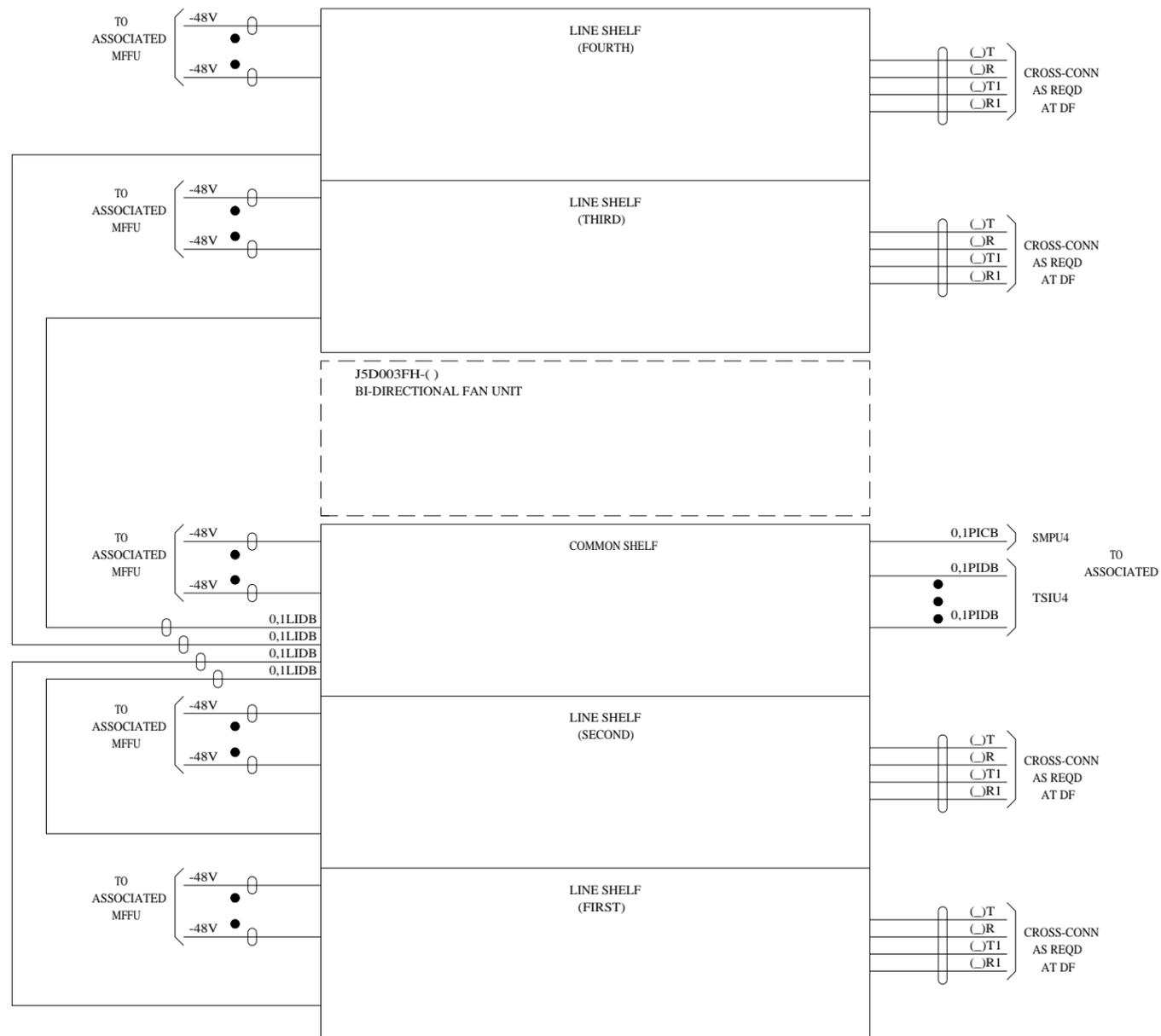
### FUSING REQUIREMENTS

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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| AWS-SM2000<br>APPLICATION SCHEMATIC                           |             |              |
| DWG SIZE<br>C2  | ISSUE<br>3M |              |
| Lucent Technologies   | SD-5D534-01 | SHEET<br>B17 |

# AS 14

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 MODULAR 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'.

**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**

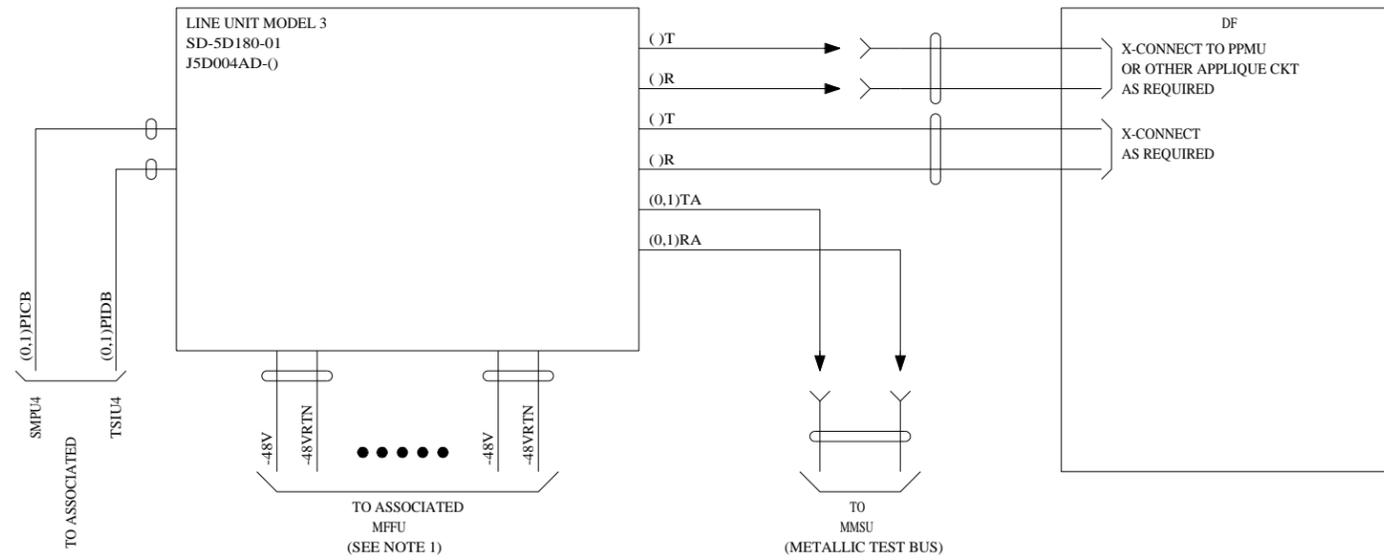
EACH LINE UNIT MODEL 3(LU3) CAN TERMINATE UP TO 640 LINES AT A 10:1 LCR, OR 512 LINES AT AN 8:1 LCR, OR 384 LINES AT A 6:1 LCR, OR 256 LINES AT A 4:1 LCR.

**FUSING REQUIREMENTS**

SEE SD-5D180-01 FOR LINE UNIT MODEL 3 FUSING REQUIREMENTS. SEE ED5D693-10.

**SPECIFIC MOUNTING REQUIREMENTS**

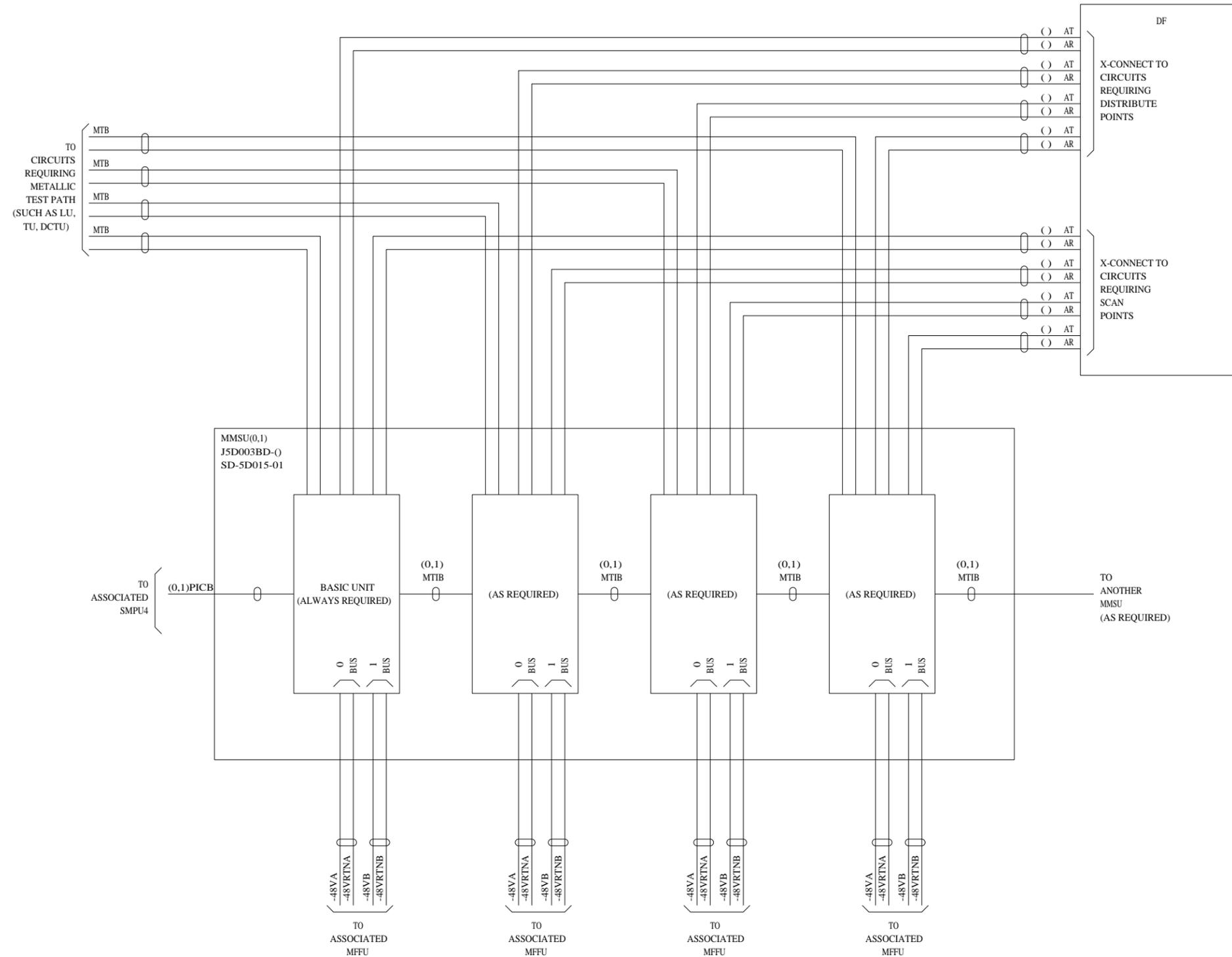
ANY AVAILABLE POSITION IN AN LTP CABINET (TWO CONSECUTIVE SHELVES).



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| AWS-SM2000<br>APPLICATION SCHEMATIC                           |             | DWG SIZE<br>C2              |
| Lucent Technologies   | SD-5D534-01 | ISSUE<br>3M<br>SHEET<br>B18 |

# AS 15

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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| Lucent Technologies   |  | ISSUE<br>3M    |
| SD-5D534-01   |  | SHEET<br>B19   |

# AS 16

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

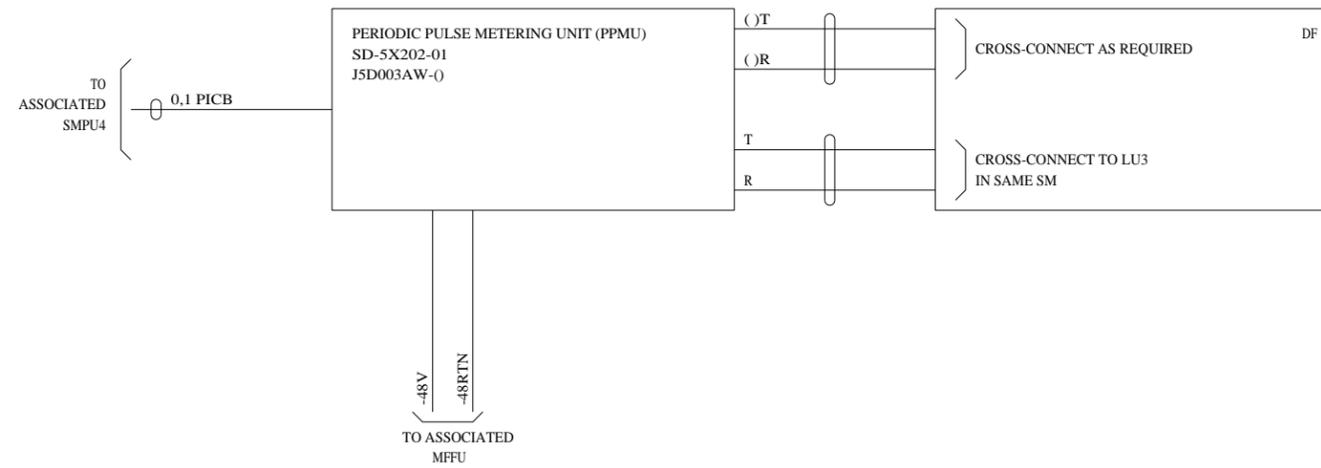
THE PPMU SERVES UP TO 64 SUBSCRIBER LINES, ASSOCIATED WITH UP TO 4 LU'S.

FUSING REQUIREMENTS

SEE SD-5X202-01 FOR PPMU FUSING REQUIREMENTS.  
SEE ED5D693-10.

SPECIFIC MOUNTING REQUIREMENTS

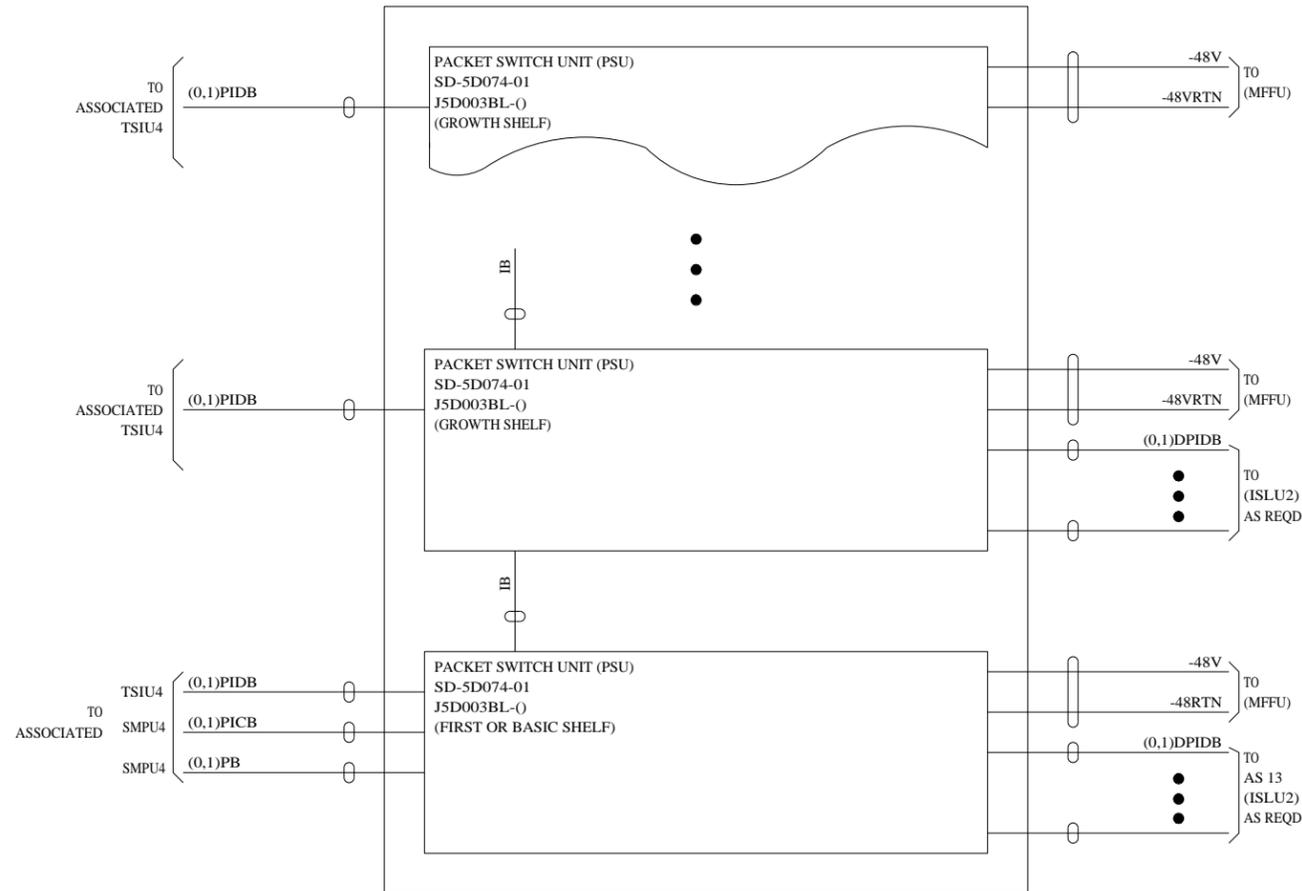
ANY AVAILABLE POSITION IN AN LTP CABINET.



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| AWS-SM2000<br>APPLICATION SCHEMATIC                           |             |              |
| DWG SIZE<br>C2  | ISSUE<br>3M |              |
| Lucent Technologies   | SD-5D534-01 | SHEET<br>B20 |

# AS 17

## 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. SEE ED5D693-10.

### 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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| Lucent Technologies   | SD-5D534-01 | SHEET<br>B21 |

# AS 18

ACCESS INTERFACE UNIT (AIU)  
SD-8G000-01  
J8G000AA(-)

### 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.

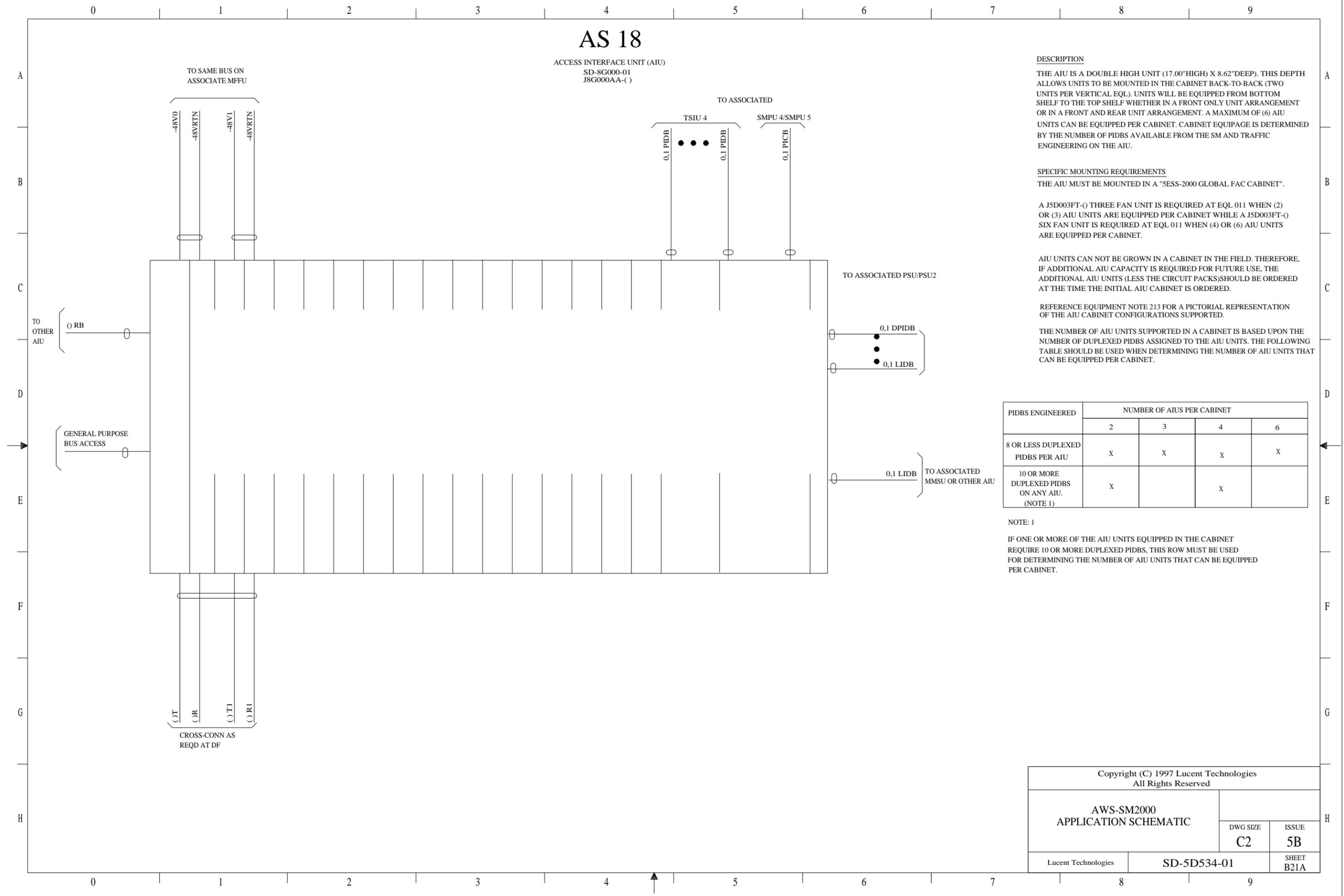
REFERENCE EQUIPMENT NOTE 213 FOR A PICTORIAL REPRESENTATION OF THE AIU CABINET CONFIGURATIONS SUPPORTED.

THE NUMBER OF AIU UNITS SUPPORTED IN A CABINET IS BASED UPON THE NUMBER OF DUPLXED 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 DUPLXED PIDBS PER AIU               | X                          | X | X | X |
| 10 OR MORE DUPLXED 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 DUPLXED PIDBS, THIS ROW MUST BE USED FOR DETERMINING THE NUMBER OF AIU UNITS THAT CAN BE EQUIPPED PER CABINET.



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APPLICATION SCHEMATIC

|          |       |
|----------|-------|
| DWG SIZE | ISSUE |
| C2       | 5B    |

Lucent Technologies

SD-5D534-01

SHEET B21A

# AS 19

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

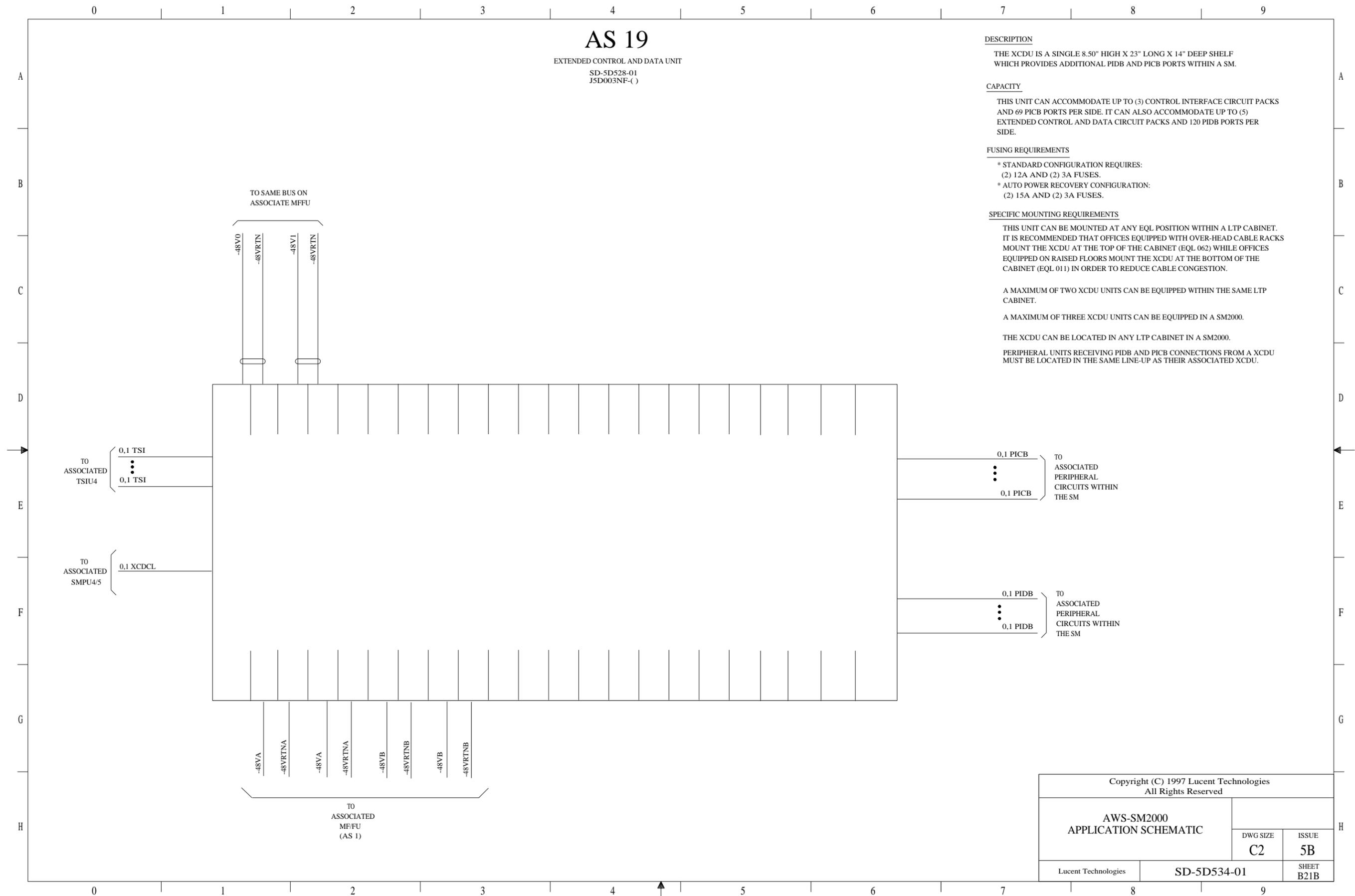
THIS UNIT CAN BE MOUNTED AT ANY EQL POSITION WITHIN A LTP CABINET. IT IS RECOMMENDED THAT OFFICES EQUIPPED WITH OVER-HEAD CABLE RACKS MOUNT THE XCDU AT THE TOP OF THE CABINET (EQL 062) WHILE OFFICES EQUIPPED ON RAISED FLOORS MOUNT THE XCDU AT THE BOTTOM OF THE CABINET (EQL 011) IN ORDER TO REDUCE CABLE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



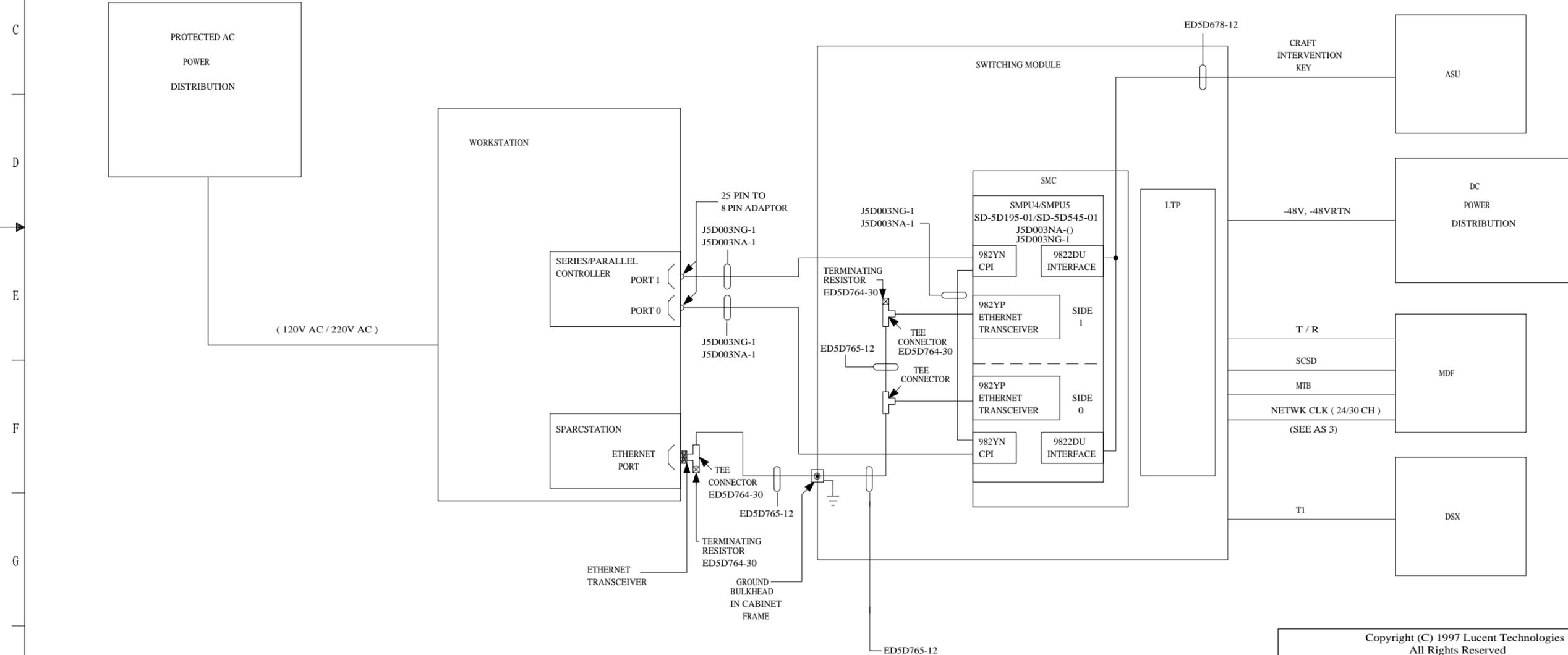
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| AWS-SM2000<br>APPLICATION SCHEMATIC                           |  | DWG SIZE      |
|   |  | C2            |
| Lucent Technologies   |  | ISSUE         |
|   |  | 5B            |
| SD-5D534-01   |  | SHEET<br>B21B |

# AS 49A

5ESS-2000 SWITCH  
 (ADMINISTRATIVE WORKSTATION)  
 (INTERFACE TO A NON-EMC HARDENED  
 SWITCHING MODULE CABINET)

NOTES:

1. AC POWER DISTRIBUTION IS IN SD-5D004-01.  
DC POWER DISTRIBUTION IS IN SD-5D005-01.
2. DC CURRENT DRAIN INFORMATION IS IN SD-5D002-01.
3. SEE EQUIPMENT NOTE 204 FOR RECOMMENDATIONS ON PROTECTED AC POWER.
4. ALL CABLES ASSOCIATED WITH THE 5ESS ARE DEFINED IN:  
ED5D734-10 (INTRAMODULE CABLING)  
ED5D500-21 (INTERMODULE CABLING)
5. THE SWITCHING MODULE IS EQUIPPED TO MEET JOB ENGINEERED REQUIREMENTS. REFERENCE SD-5D007-01 (5ESS ASSIGNMENT RULES) FOR SPECIFIC EQUIPMENT REQUIREMENTS IN REGARDS TO PIDB, PICB, MTB, AND ETC..



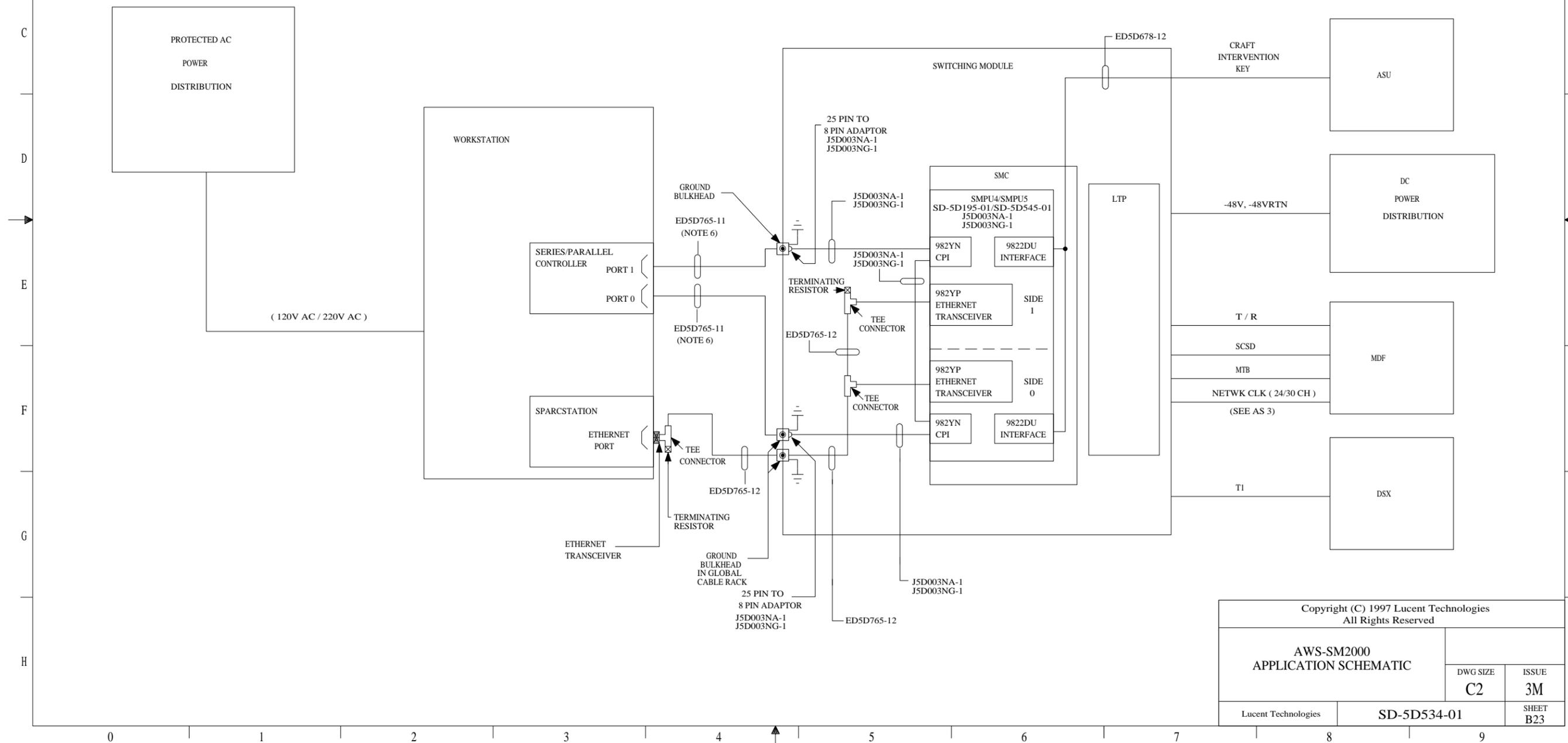
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| AWS-SM2000<br>APPLICATION SCHEMATIC                           |  | DWG SIZE<br><b>C2</b> |
| Lucent Technologies   |  | ISSUE<br><b>3M</b>    |
| SD-5D534-01   |  | SHEET<br><b>B22</b>   |

# AS 49B

5ESS-2000 SWITCH  
 (ADMINISTRATIVE WORKSTATION)  
 (INTERFACE TO AN EMC HARDENED  
 SWITCHING MODULE CABINET)

NOTES:

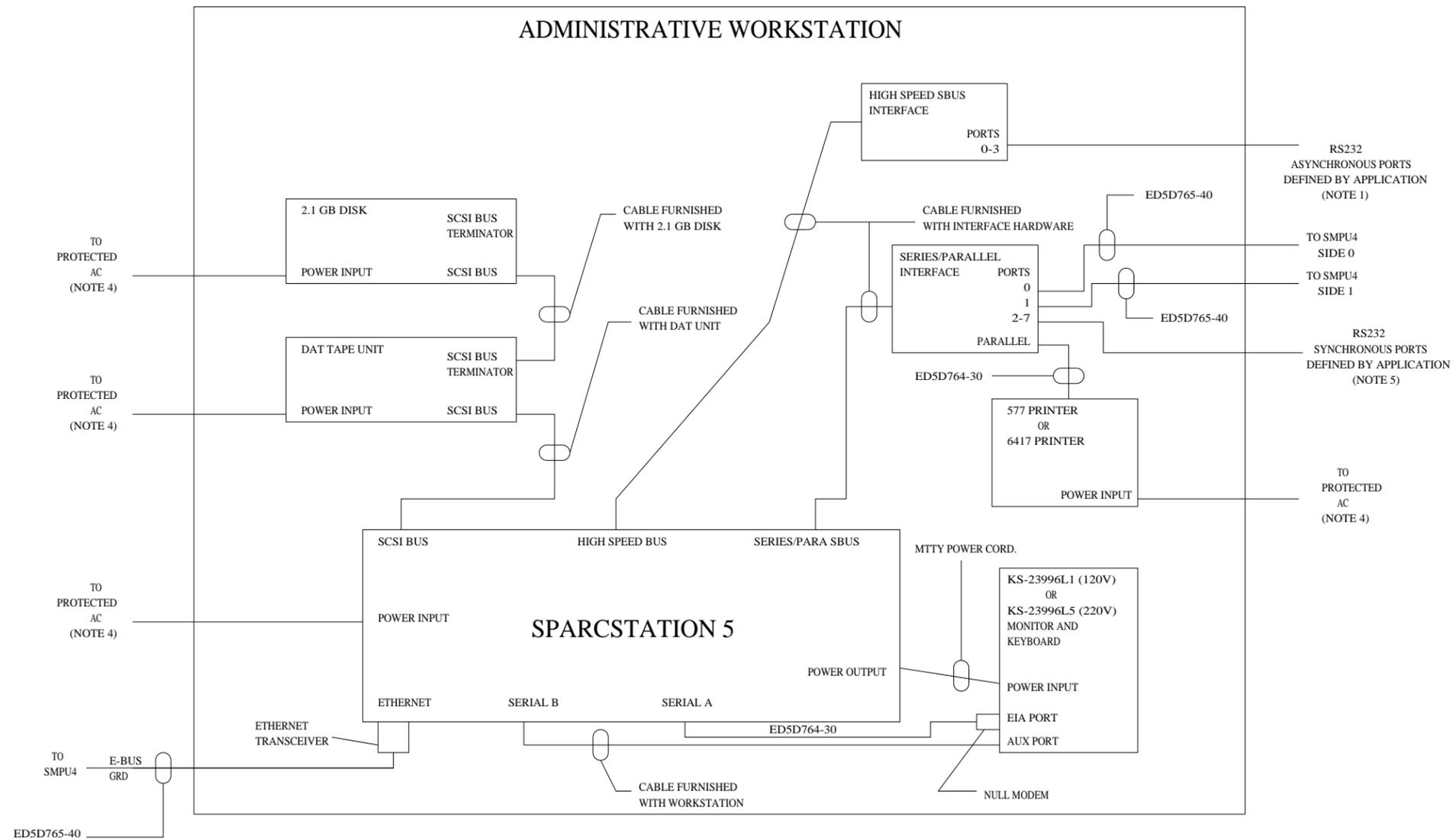
1. AC POWER DISTRIBUTION IS IN SD-5D004-01.  
DC POWER DISTRIBUTION IS IN SD-5D005-01.
2. DC CURRENT DRAIN INFORMATION IS IN SD-5D002-01.
3. SEE EQUIPMENT NOTE 204 FOR RECOMMENDATIONS ON PROTECTED AC POWER.
4. ALL CABLES ASSOCIATED WITH THE 5ESS ARE DEFINED IN:  
ED5D734-10 (INTRAMODULE CABLING)  
ED5D500-21 (INTERMODULE CABLING)
5. THE SWITCHING MODULE IS EQUIPPED TO MEET JOB ENGINEERED REQUIREMENTS. REFERENCE SD-5D007-01 (5ESS ASSIGNMENT RULES) FOR SPECIFIC EQUIPMENT REQUIREMENTS IN REGARDS TO PIDB, PICB, MTB, AND ETC..
6. IN EMC HARDENED APPLICATIONS, 25 PIN SHIELDED RS232 CABLES AND CONNECTION TO CABLE RACK GROUND BULKHEAD ARE REQUIRED BETWEEN THE WORKSTATION AND SM.



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| AWS-SM2000<br>APPLICATION SCHEMATIC                           |                    |                     |
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| Lucent Technologies   | <b>SD-5D534-01</b> | SHEET<br><b>B23</b> |

# P/O AS 50

ADMINISTRATIVE WORKSTATION  
ED5D764-30  
(SPARC STATION 5)



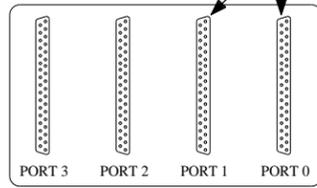
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| AWS-SM2000<br>APPLICATION SCHEMATIC                           |             |              |
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# P/O AS 50

ADMINISTRATIVE WORKSTATION  
ED5D764-30  
(SPARC STATION 5)  
(NOTE 6)

SEE FIGURE A  
FOR APPLICATION  
SPECIFIC HARDWARE  
CONFIGURATIONS

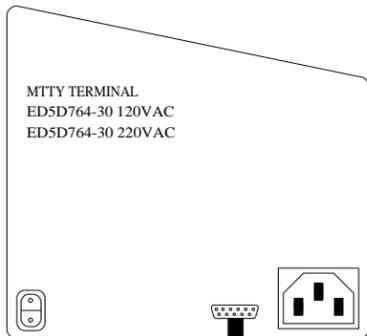
SEE FIGURE B  
FOR APPLICATION SPECIFIC  
HARDWARE CONFIGURATIONS



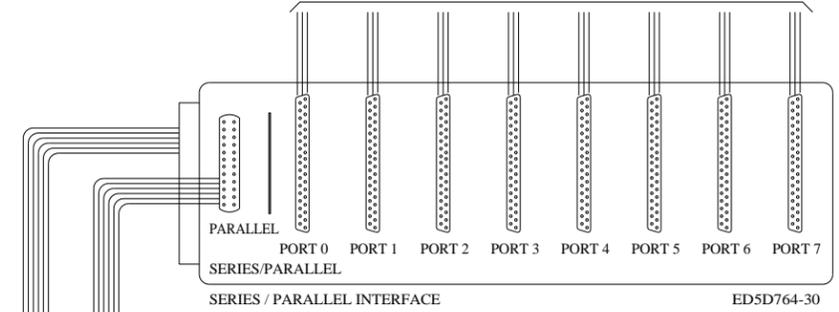
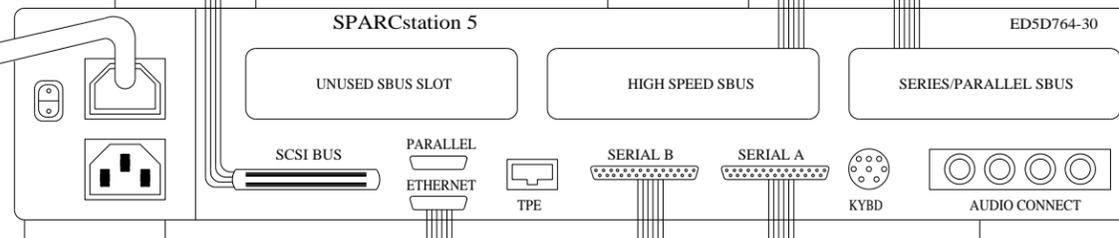
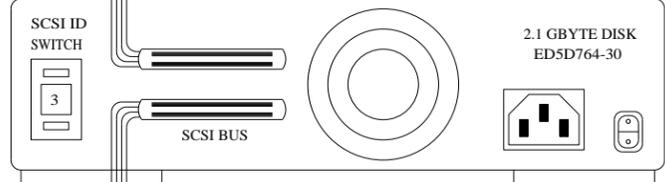
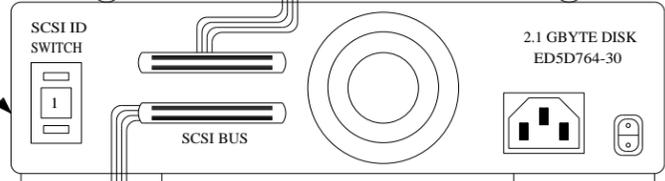
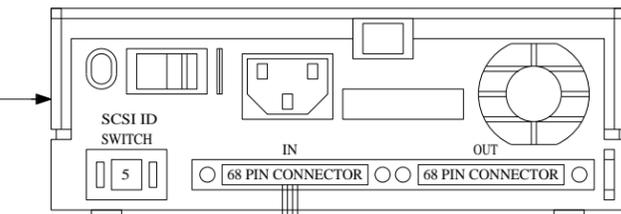
HIGH SPEED INTERFACE  
SBUS CONTROLLER  
ED5D764-30 (INTERNATIONAL APPLICATIONS)  
ED5D764-30 (US APPLICATIONS)

DAT TAPE UNIT  
ED5D764-30

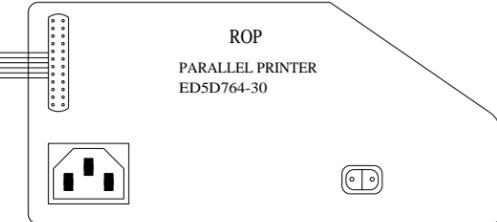
SECOND SCSI DISK  
FOR US DOMESTIC  
APPLICATIONS ONLY



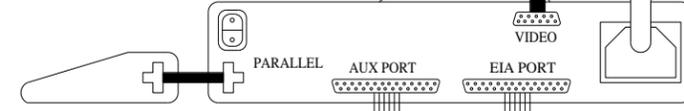
MTTY POWER CORD



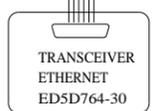
CABLE, PRINTER  
ED5D764-30



VCDX MAXIMUM CONFIGURATION  
FOR US/DOMESTIC AND INTERNATIONAL  
APPLICATIONS  
(85MHz SPARCStation 5)



ED5D764-30 CABLE  
ETHERNET DROP



SEE FIGURE B  
FOR APPLICATION SPECIFIC  
HARDWARE CONFIGURATIONS

CABLE, RS232  
ED5D764-30

524565959 NULL MODEM REF

ADAPTOR, ETHERNET TEE  
ED5D764-30  
TERMINATOR, ETHERNET COAX  
ED5D764-30

406447045 REF

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| SD-5D534-01   |  | SHEET<br>B25   |

# P/O AS 50

ADMINISTRATIVE WORKSTATION  
ED5D764-30  
(SPARC STATION 5)  
(NOTE 7)

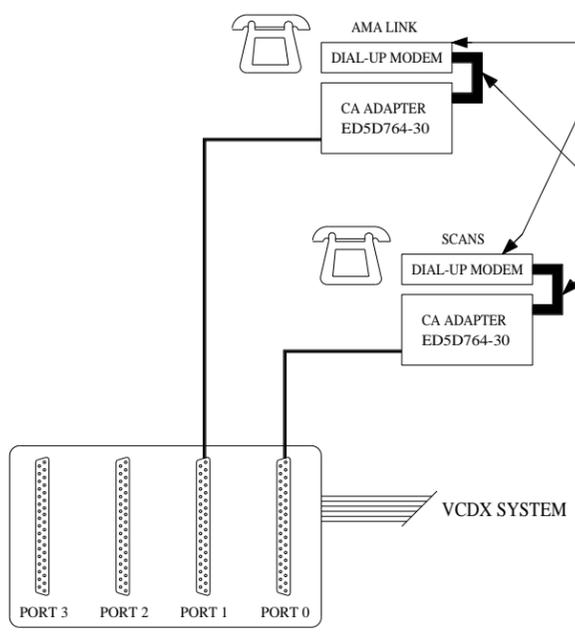


FIGURE A  
HIGH SPEED INTERFACE CONFIGURATION  
FOR SESS-US APPLICATIONS  
(OPTIONAL FOR INTERNATIONAL APPLICATIONS)  
SEE APPLICATION SCHEMATIC SD-5D519-01 AND OSS DRAWING FOR  
CONFIGURATION, EQUIPMENT, AND INTERCONNECTION INFORMATION.

= TELEPHONE LINE

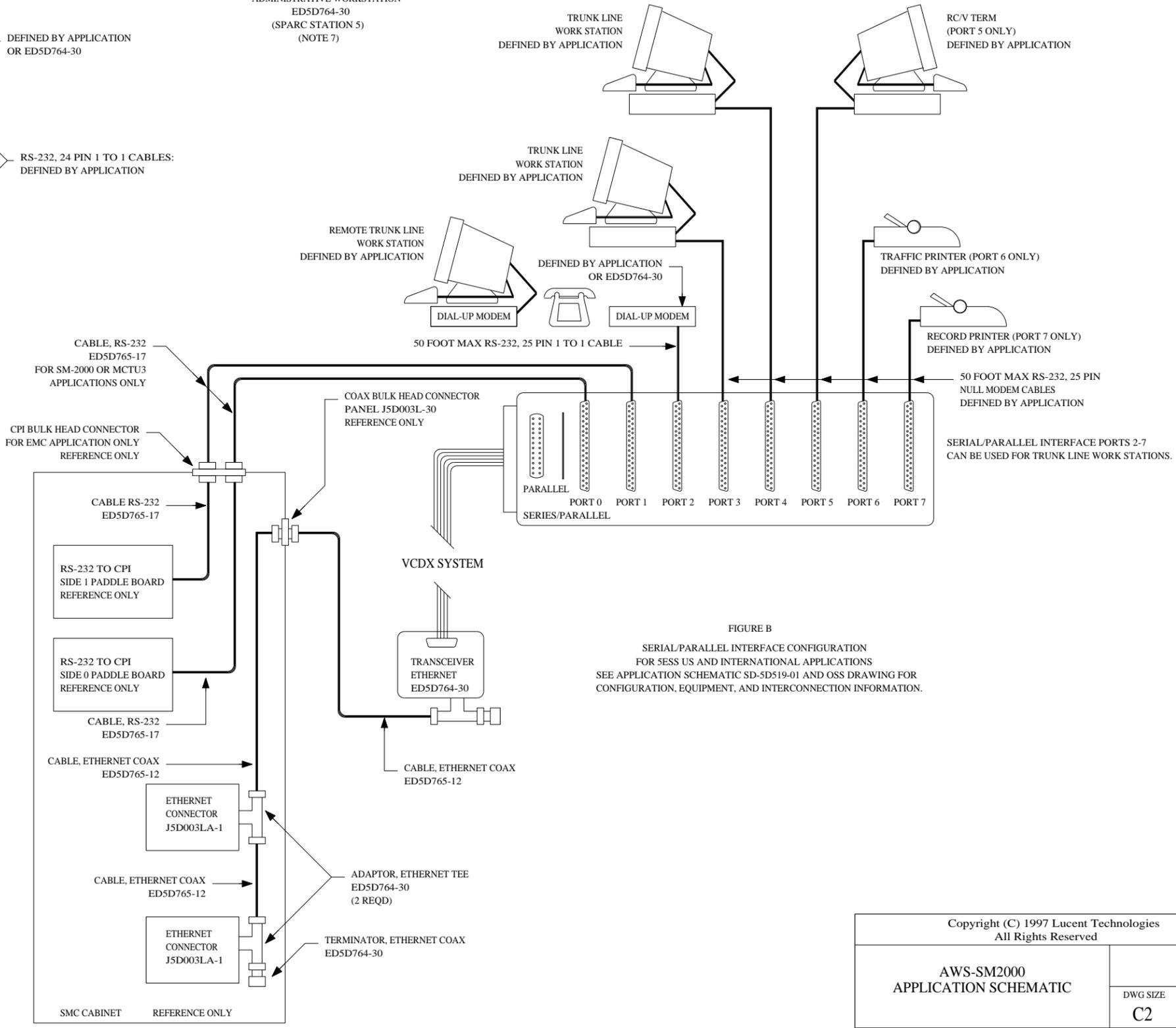


FIGURE B  
SERIAL/PARALLEL INTERFACE CONFIGURATION  
FOR SESS-US AND INTERNATIONAL APPLICATIONS  
SEE APPLICATION SCHEMATIC SD-5D519-01 AND OSS DRAWING FOR  
CONFIGURATION, EQUIPMENT, AND INTERCONNECTION INFORMATION.

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# P/O AS 50

ADMINISTRATIVE WORKSTATION  
ED5D764-30

NOTES:

1. WHEN POSSIBLE, THE PARADYNE 3810 MODEM (WHICH PROVIDES 2 WIRE LEASED LINE, 4 WIRE LEASED LINE, DIAL BACKUP, AND DIAL-UP), OR PARADYNE 3820 MODEM (WHICH PROVIDES 2 WIRE LEASED LINE AND DIAL-UP) SHOULD BE USED TO INTERFACE WITH THE OPERATOR SUPPORT SYSTEMS. THESE MODEMS PROVIDE:  
DTE RATES (SYNCHRONOUS)  
1200 BPS - 14.4 KBPS
2. THE ETHERNET CABLING (BETWEEN THE SPARC STATION AND THE SMPU4 982YP PADDLE BOARD) IS LIMITED TO 50 CABLE FEET.
3. EACH RS232 CABLE IS LIMITED TO 50 CABLE FEET.
4. A LOCKABLE AC OUTLET STRIP IS REQUIRED AS AN INTERFACE TO THE EQUIPMENT REQUIRING PROTECTED AC. IT IS THE RESPONSIBILITY OF THE OFFICE ENGINEER TO PROVIDE THIS OUTLET STRIP. THE OUTLET STRIP MUST COMPLY WITH THE LOCAL ELECTRICAL CODES. ONLY EQUIPMENT SHOWN IN THIS DRAWING THAT REQUIRES PROTECTED AC SHALL BE PLUGGED INTO THIS AC OUTLET STRIP.
5. AN RS232 ADAPTER IS AVAILABLE ON ED-5D764-30 TO INTERFACE WITH THE RS449 SYNCHRONOUS PORTS.
6. USED IN INTERNATIONAL APPLICATIONS ONLY.
7. USED IN VCDX APPLICATIONS ONLY.
8. THE FOLLOWING ARE THE "OFFICIALLY" SUPPORTED SESS TERMINAL TYPES FOR THE US LOADLINE. REFERENCE OSS DRAWING AND ED-5D765-30.

| SERIAL PORT | TERMINAL TYPE   |
|-------------|---|
| 0           | CENTRAL PROCESSOR INTERVENTION<br>(CANNOT BE USED FOR TERMINALS)                                      |
| 1           | CENTRAL PROCESSOR INTERVENTION<br>(CANNOT BE USED FOR TERMINALS)                                      |
| 2           | SUPPLEMENTAL TRUNK AND LINE WORKSTATION (TTY09)   |
| 3           | SUPPLEMENTAL TRUNK AND LINE WORKSTATION (TTY10)   |
| 4           | SUPPLEMENTAL TRUNK AND LINE WORKSTATION (TTY11)   |
| 5           | SUPPLEMENTAL TRUNK AND LINE WORKSTATION (TTY12)<br>OR LOCAL RECENT CHANGE AND VERIFY TERMINAL (TTY21) |
| 6           | SUPPLEMENTAL TRUNK AND LINE WORKSTATION (TTY13)<br>OR TRAFFIC PRINTER (TTY07)                         |
| 7           | SUPPLEMENTAL TRUNK AND LINE WORKSTATION (TTY14)<br>OR OFFICE RECORD PRINTER (TTY43)                   |

| HSI PORT | TERMINAL TYPE                      |
|----------|------------------------------------|
| 0        | SCANS (SOFTWARE UPDATE)            |
| 1        | AUTOMATIC MESSAGE ACCOUNTING (AMA) |
| 2        | RESERVED                           |
| 3        | RESERVED                           |

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| AWS-SM2000<br>APPLICATION SCHEMATIC                           | DWG SIZE    | ISSUE        |
|   | C2          | 3M           |
| Lucent Technologies   | SD-5D534-01 | SHEET<br>B27 |

# AS 51

ALARM STATUS UNIT MODEL 2  
(ASU2)

DESCRIPTION

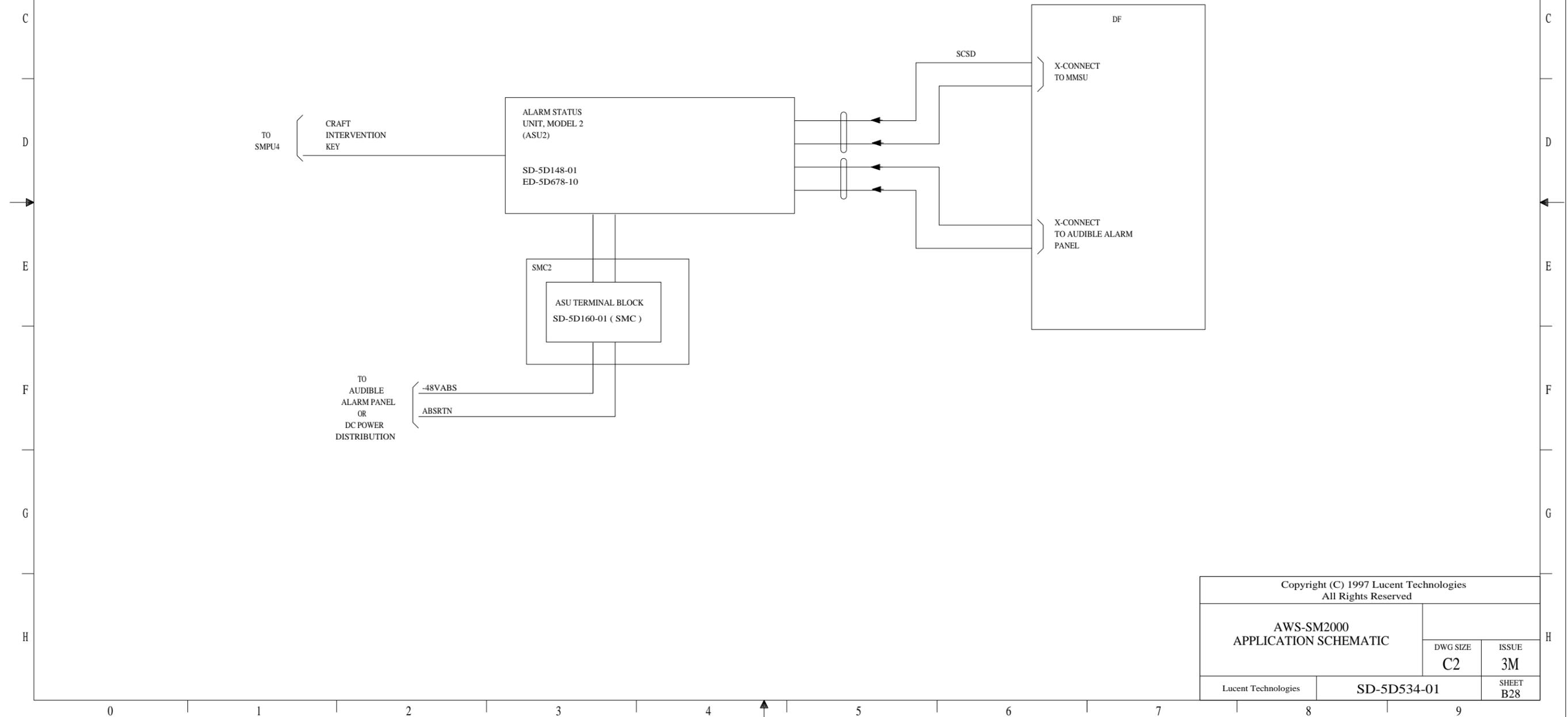
THE ASU2 IS A HOUSING WHICH PROVIDES VISUAL ALARM INDICATORS, SM MONITORING INDICATORS, AND SM INTERVENTION BUTTONS.

FUSING REQUIREMENTS

THE ASU2 IS FUSED AT THE POWER PLANT. SEE "AS 2" FOR FUSING REQUIREMENTS.

SPECIFIC MOUNTING REQUIREMENTS

THE ASU2 IS TO BE MOUNTED ON THE CABLE RACK ABOVE THE SMC.



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| AWS-SM2000<br>APPLICATION SCHEMATIC                           |             |              |
| DWG SIZE<br>C2  | ISSUE<br>3M |              |
| Lucent Technologies   | SD-5D534-01 | SHEET<br>B28 |

# AS 52

AUDIBLE AND VISUAL ALARM CIRCUIT  
(AAP)

DESCRIPTION

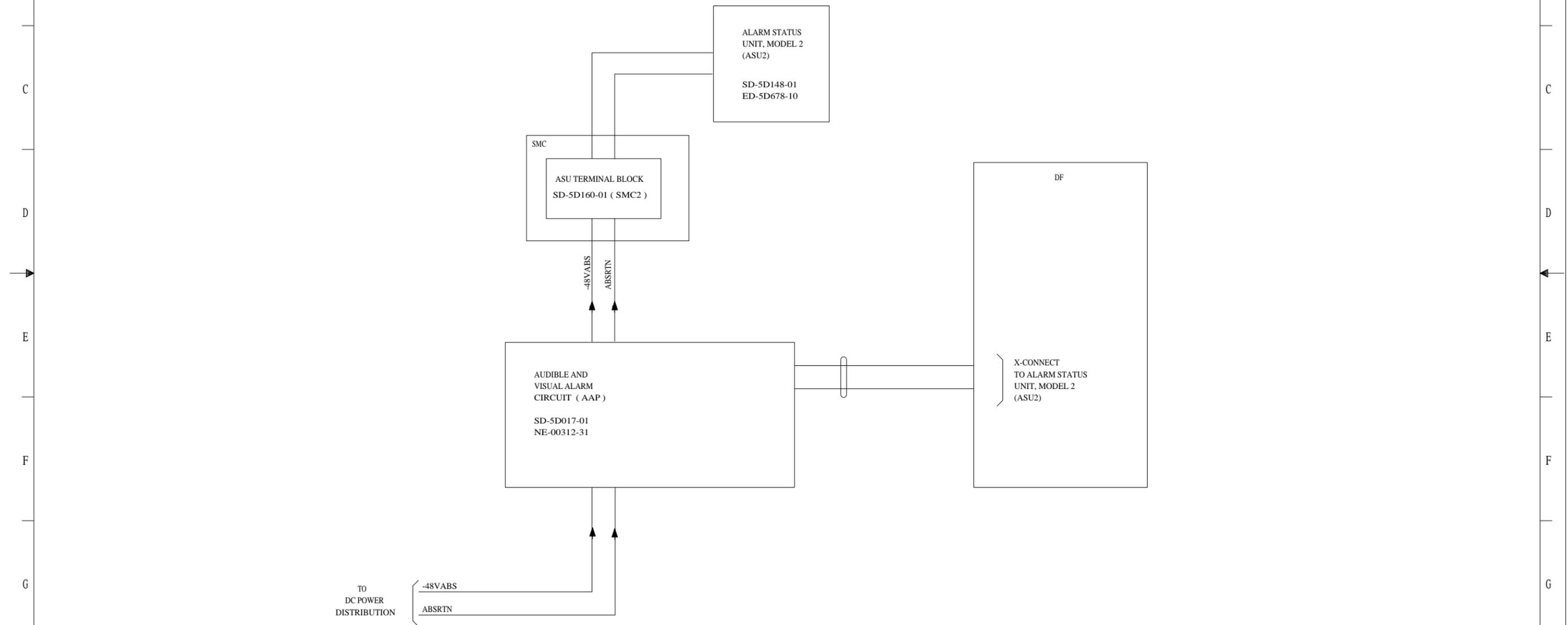
THE ALARM STATUS UNIT, MODEL 2 (ASU2) IS A 10-1/4" X 8-1/2" X 4-1/4" UNIT WHICH PROVIDES BOTH AUDIBLE AND VISUAL ALARMS.

FUSING REQUIREMENTS

THE AAP IS FUSED AT THE POWER PLANT. SEE NE-00312-31 FOR DETAILS.

SPECIFIC MOUNTING REQUIREMENTS

THE AAP IS TO BE MOUNTED ON A WALL.



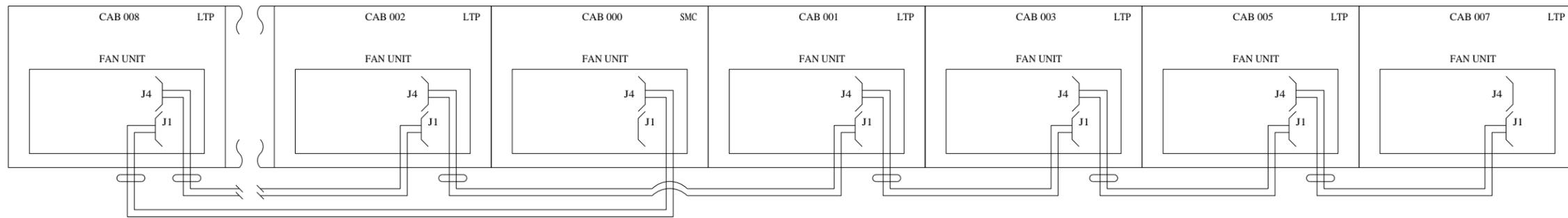
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| AWS-SM2000<br>APPLICATION SCHEMATIC                           |             |              |
| DWG SIZE<br>C2  | ISSUE<br>3M |              |
| Lucent Technologies   | SD-5D534-01 | SHEET<br>B29 |

# AS 53A

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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AWS-SM2000  
APPLICATION SCHEMATIC

|          |       |
|----------|-------|
| DWG SIZE | ISSUE |
| C2       | 3M    |
| SHEET    |       |
| B30      |       |

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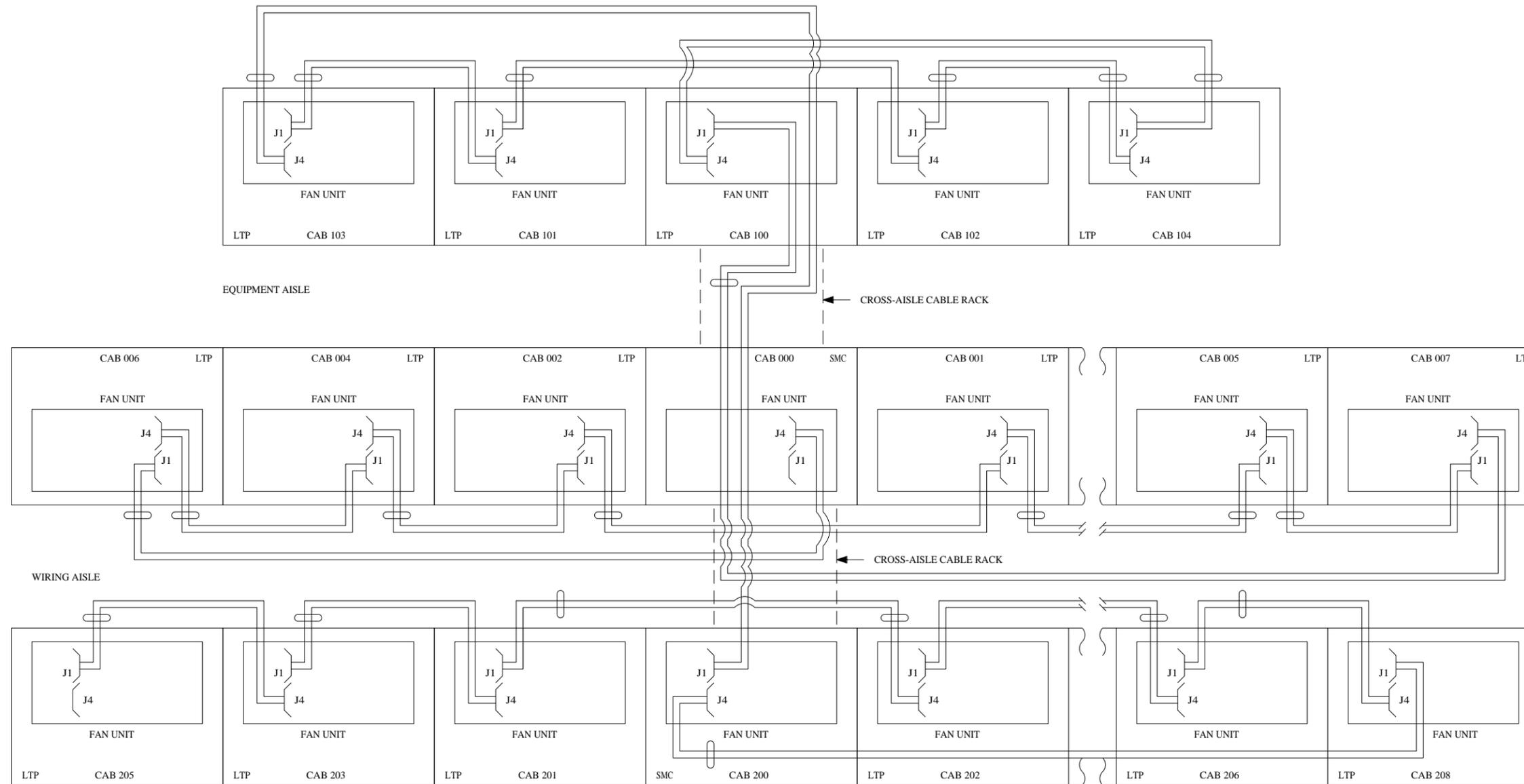
SD-5D534-01

# AS 53B

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

NOTES:

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



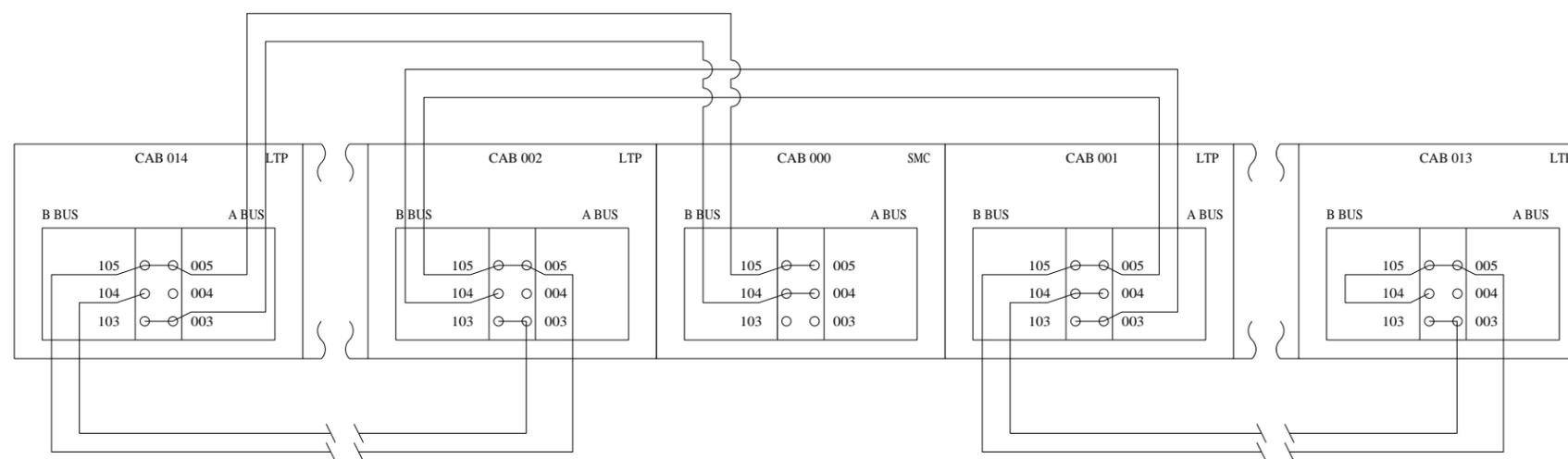
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| AWS-SM2000<br>APPLICATION SCHEMATIC                           |  | DWG SIZE<br>C2 |
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| SD-5D534-01   |  | SHEET<br>B31   |

# AS 54A

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

NOTES:

- "B" BUS CONFIGURATION IS SIMILAR EXCEPT IT USES TERMINALS:  
006-106  
007-107



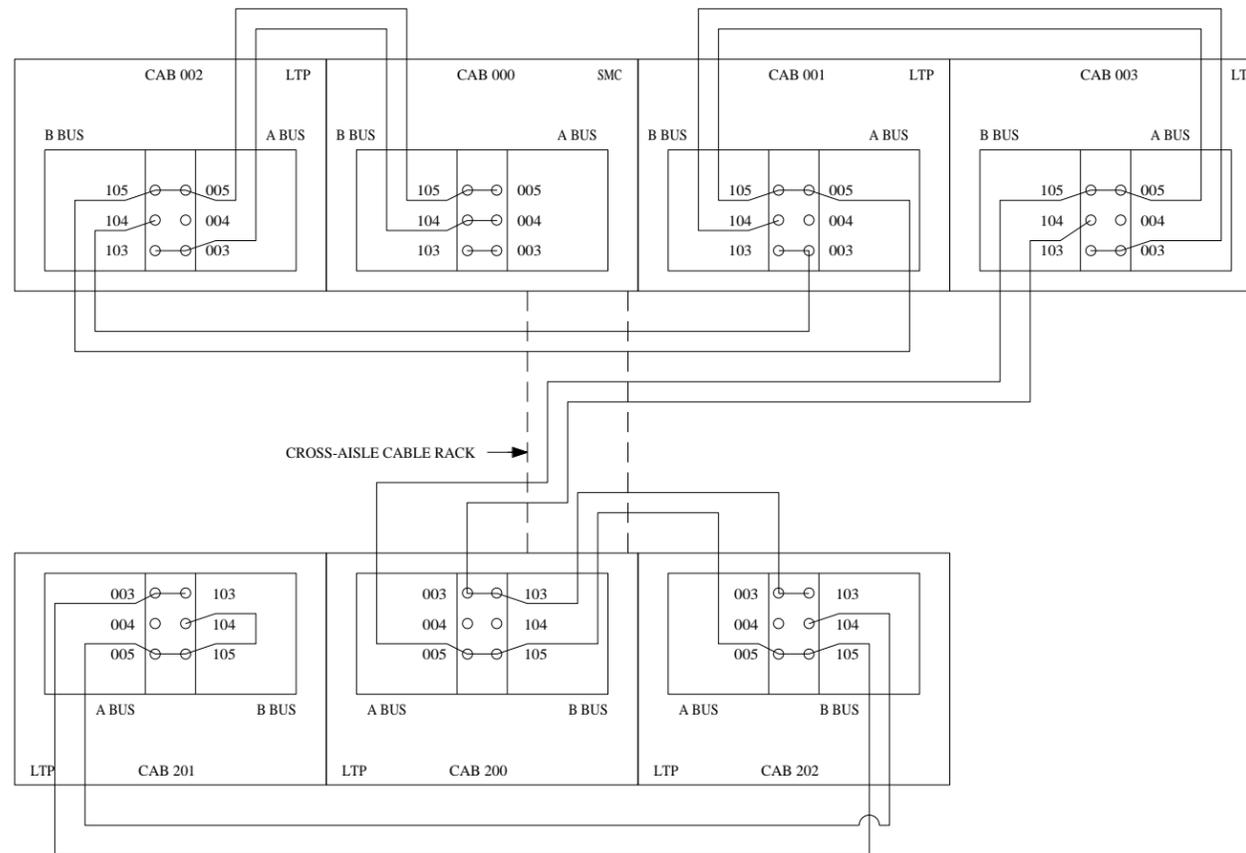
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|---|-------------|--------------|
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| AWS-SM2000<br>APPLICATION SCHEMATIC                           |             |              |
| DWG SIZE<br>C2  | ISSUE<br>3M |              |
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# AS 54B

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

NOTES:

- "B" BUS CONFIGURATION IS SIMILAR EXCEPT IT USES TERMINALS: 006-106, 007-107
- 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.



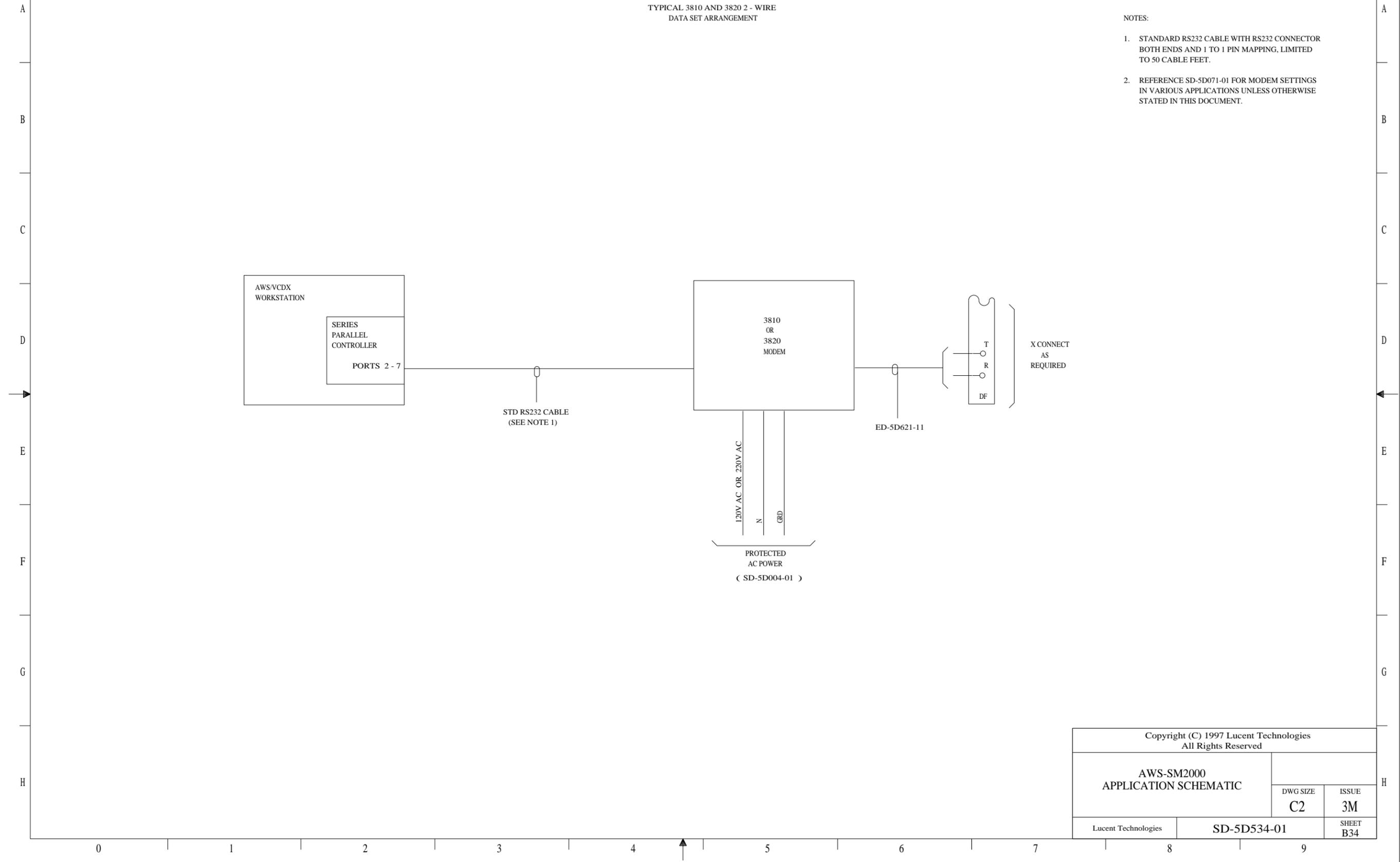
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| AWS-SM2000<br>APPLICATION SCHEMATIC                           |             | DWG SIZE<br>C2              |
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# P/O AS 55

TYPICAL 3810 AND 3820 2 - WIRE  
DATA SET ARRANGEMENT

NOTES:

1. STANDARD RS232 CABLE WITH RS232 CONNECTOR BOTH ENDS AND 1 TO 1 PIN MAPPING, LIMITED TO 50 CABLE FEET.
2. REFERENCE SD-5D071-01 FOR MODEM SETTINGS IN VARIOUS APPLICATIONS UNLESS OTHERWISE STATED IN THIS DOCUMENT.



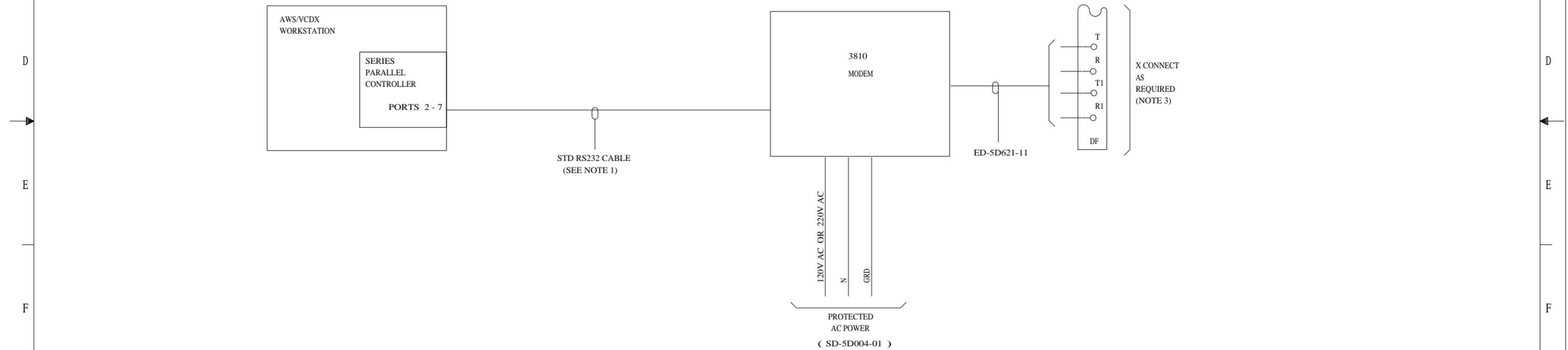
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| AWS-SM2000<br>APPLICATION SCHEMATIC                           |             |              |
| DWG SIZE<br>C2  | ISSUE<br>3M |              |
| Lucent Technologies   | SD-5D534-01 | SHEET<br>B34 |

# P/O AS 55

TYPICAL 3810 4 - WIRE  
DATA SET ARRANGEMENT

NOTES:

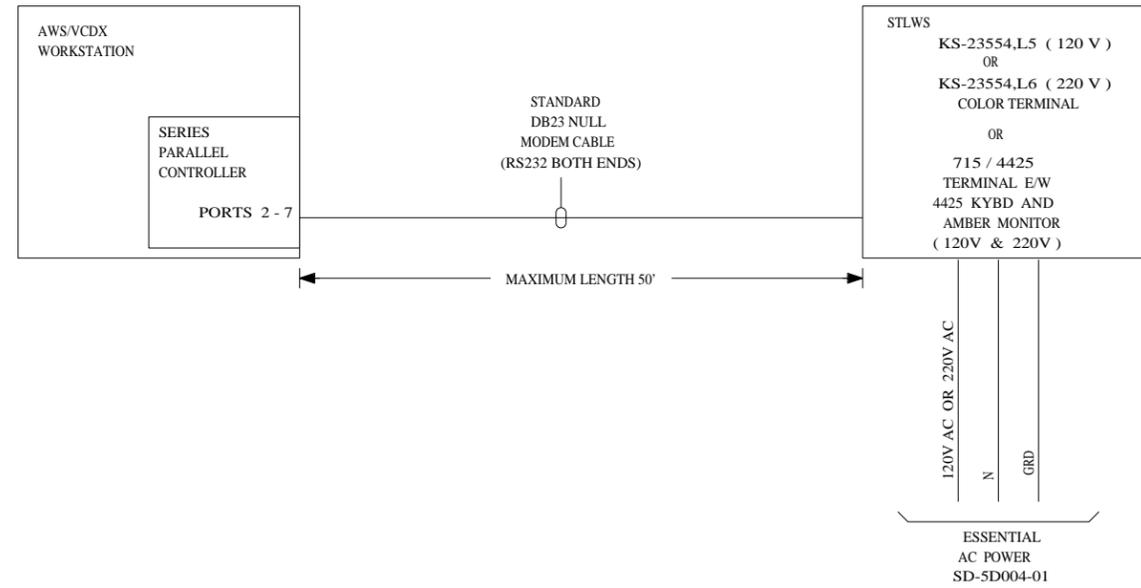
1. STANDARD RS232 CABLE WITH RS232 CONNECTOR BOTH ENDS AND 1 TO 1 PIN MAPPING, LIMITED TO 50 CABLE FEET.
2. REFERENCE SD-5D071-01 FOR MODEM SETTINGS IN VARIOUS APPLICATIONS UNLESS OTHERWISE STATED IN THIS DOCUMENT.
3. CROSS-CONNECT TO REMOTE APPLICATIONS LIKE STLWS.



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| AWS-SM2000<br>APPLICATION SCHEMATIC                           |             | DWG SIZE<br>C2              |
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# P/O AS 56

TYPICAL DATA SET  
ARRANGEMENT FOR STLWS



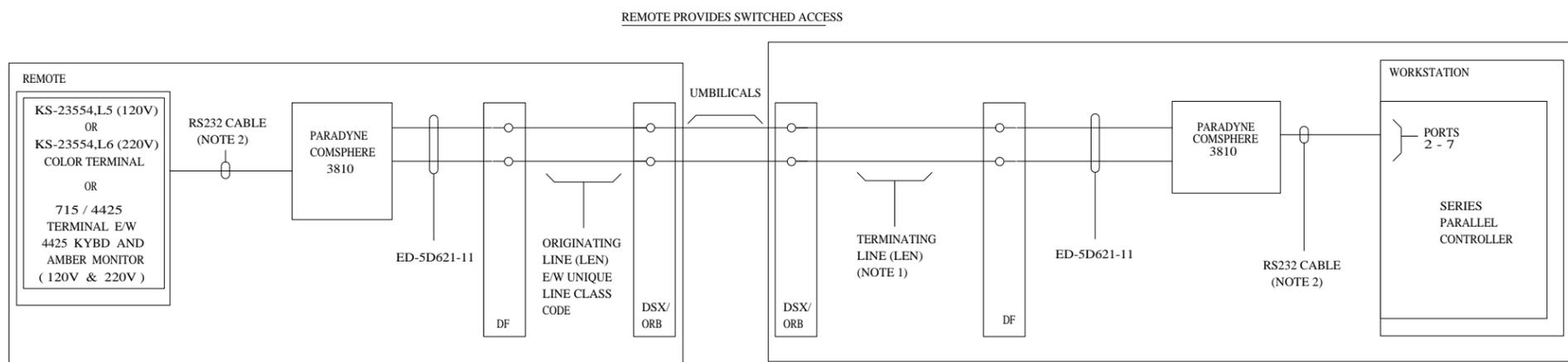
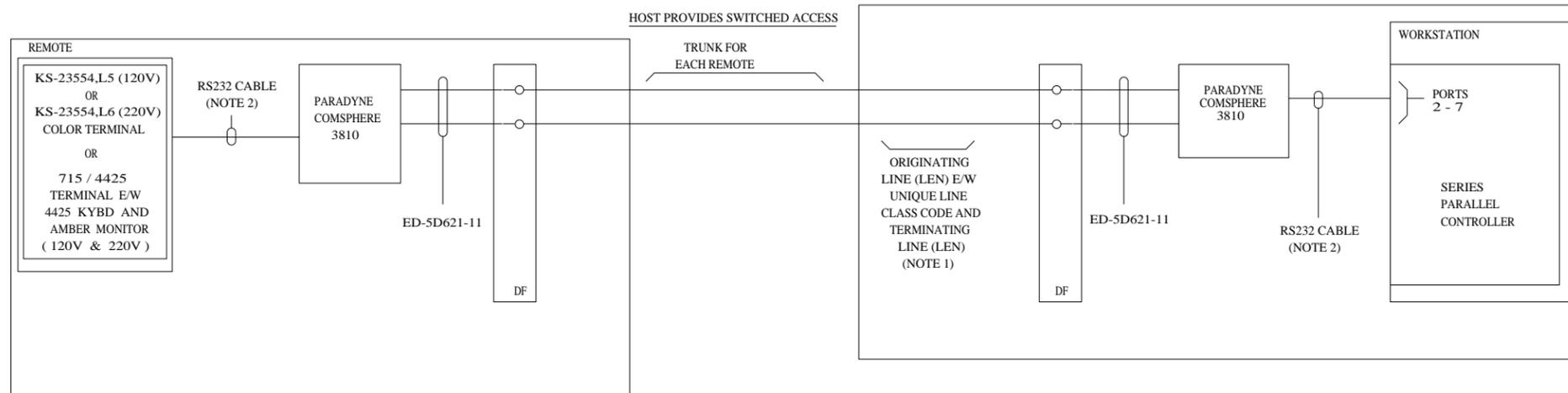
|   |             |   |
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| AWS-SM2000<br>APPLICATION SCHEMATIC                           |             | DWG SIZE<br><b>C2</b>                     |
| Lucent Technologies   | SD-5D534-01 | ISSUE<br><b>3M</b><br>SHEET<br><b>B36</b> |

# P/O AS 56

TYPICAL DATA SET ARRANGEMENT  
FOR REMOTE STLWS

NOTES:

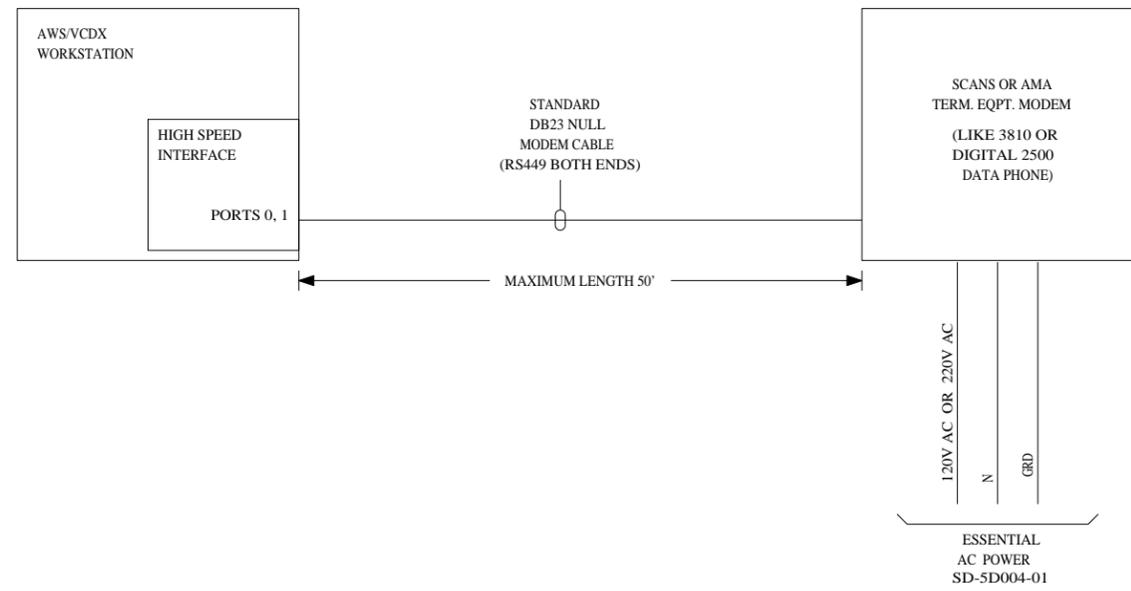
1. SPECIAL TERMINATING SCREENING SHOULD BE USED TO PERMIT ONLY LINES WITH A PARTICULAR LINE CLASS CODE TO ACCESS THIS LINE.
2. STANDARD RS232 CABLE WITH RS232 CONNECTORS ON BOTH ENDS, AND 1 TO 1 PIN MAPPING, LIMITED TO 50 CABLE FEET.
3. TO CONFIGURE THE 3810 MODEM FOR STLWS APPLICATIONS:
  - a) GO INTO "CONFIGURE" MODE
  - b) SELECT: "FACTORY"
  - c) SELECT: "SYNC\_LEASED"  
FOR CHOOSE MODE SELECT: "Answer"  
(THE OTHER END MUST BE SET TO: "Orig")
  - d) SELECT: "EDIT"
  - e) GO INTO THE DTE INTERFACE MENU:  
FOR ASYNC/SYNC MODE - SELECT: "Async"  
FOR ASYNC DTE RATE - SELECT THE  
APPROPRIATE RATE BASED ON THE PORT  
SPEED AND APPLICATION.  
FOR ASYNC #DATA BITS - SELECT: "7"  
FOR ASYNC PARITY BIT - SELECT: "Even"  
FOR CTS CONTROL - SELECT: "Forced On"
  - f) GO INTO THE LEASED LINE MENU:  
FOR LEASED LINE RATE - SELECT THE  
APPROPRIATE RATE BASED ON THE PORT  
SPEED AND APPLICATION.  
FOR V32bis AUTORATE - SELECT: "Disable"  
FOR LEASED TX LEVEL - SELECT: "-13"
  - g) SAVE THE SETTINGS.
4. CABLE LENGTHS TO THE MDS ARE LIMITED TO 500 CABLE FEET.
5. DATA SET STRAPS WHICH TIE SIGNAL GROUND TO EQUIPMENT OR CHASSIS GROUND SHALL BE REMOVED.



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|   |  | 3M           |
| SD-5D534-01   |  | SHEET<br>B37 |

# P/O AS 56

TYPICAL ARRANGEMENT FOR  
HIGH SPEED INTERFACE



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AWS-SM2000  
APPLICATION SCHEMATIC

DWG SIZE  
C2

ISSUE  
3M

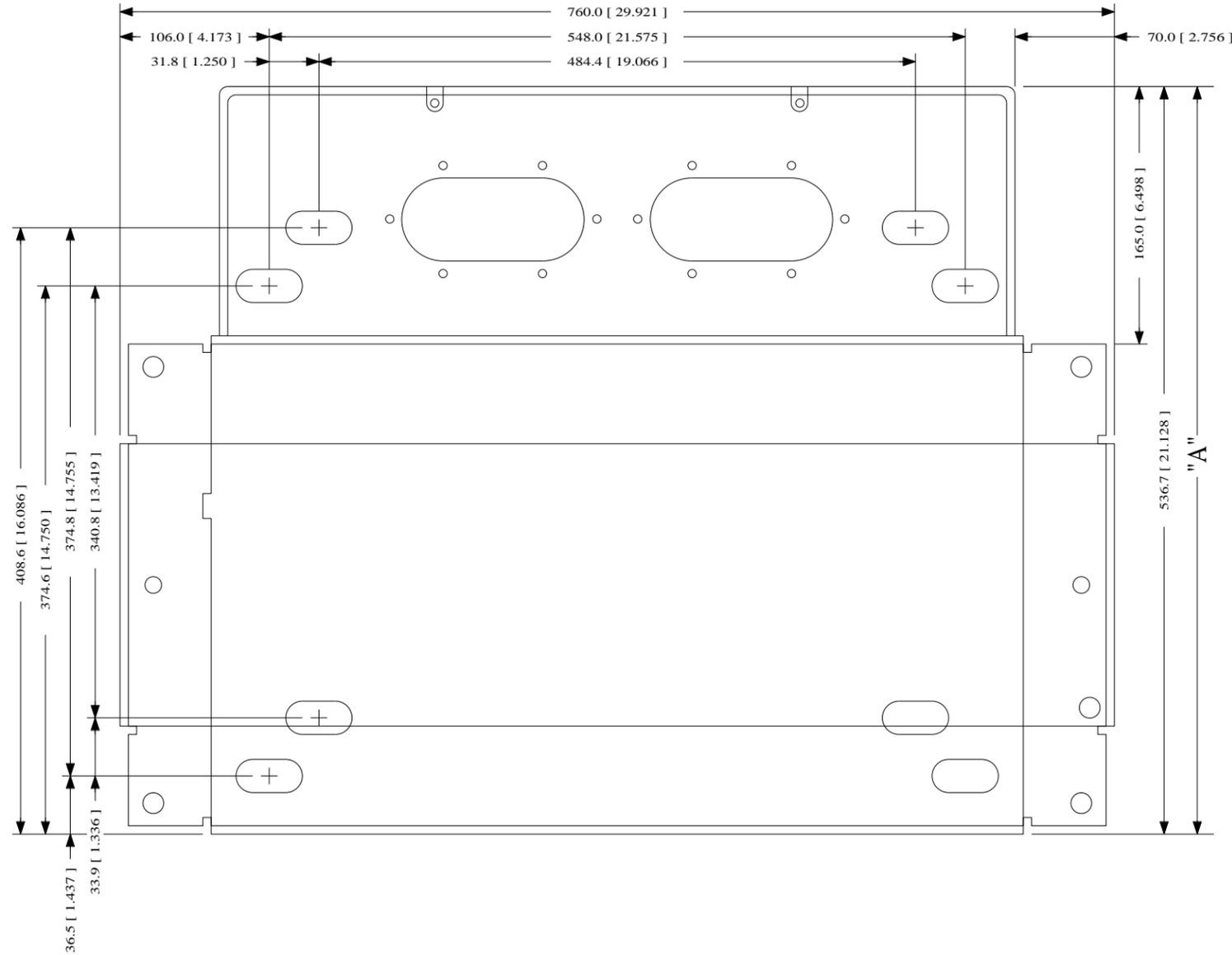
Lucent Technologies

SD-5D534-01

SHEET  
B38

# P/O AS 70

CABINET DETAIL  
 5ESS-2000 SWITCH CABINET FLOOR MOUNTING  
 ED5D785



| CABINET DET. | "A" DIMENSION NOMINAL    |                       |
|--------------|--------------------------|-----------------------|
|              | WITHOUT DOORS DOOR FRAME | WITH DOORS DOOR FRAME |
| ED5D785      | 21.12"                   | 23.32"                |

|   |             |                             |
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| AWS-SM2000<br>APPLICATION SCHEMATIC                           |             | DWG SIZE<br>C2              |
| Lucent Technologies   | SD-5D534-01 | ISSUE<br>3M<br>SHEET<br>B39 |

# P/O AS 70

SM2000 SWITCH CABINET UNIT MOUNTING  
ED5D785-70

**NOTES:**

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

**DESCRIPTION**

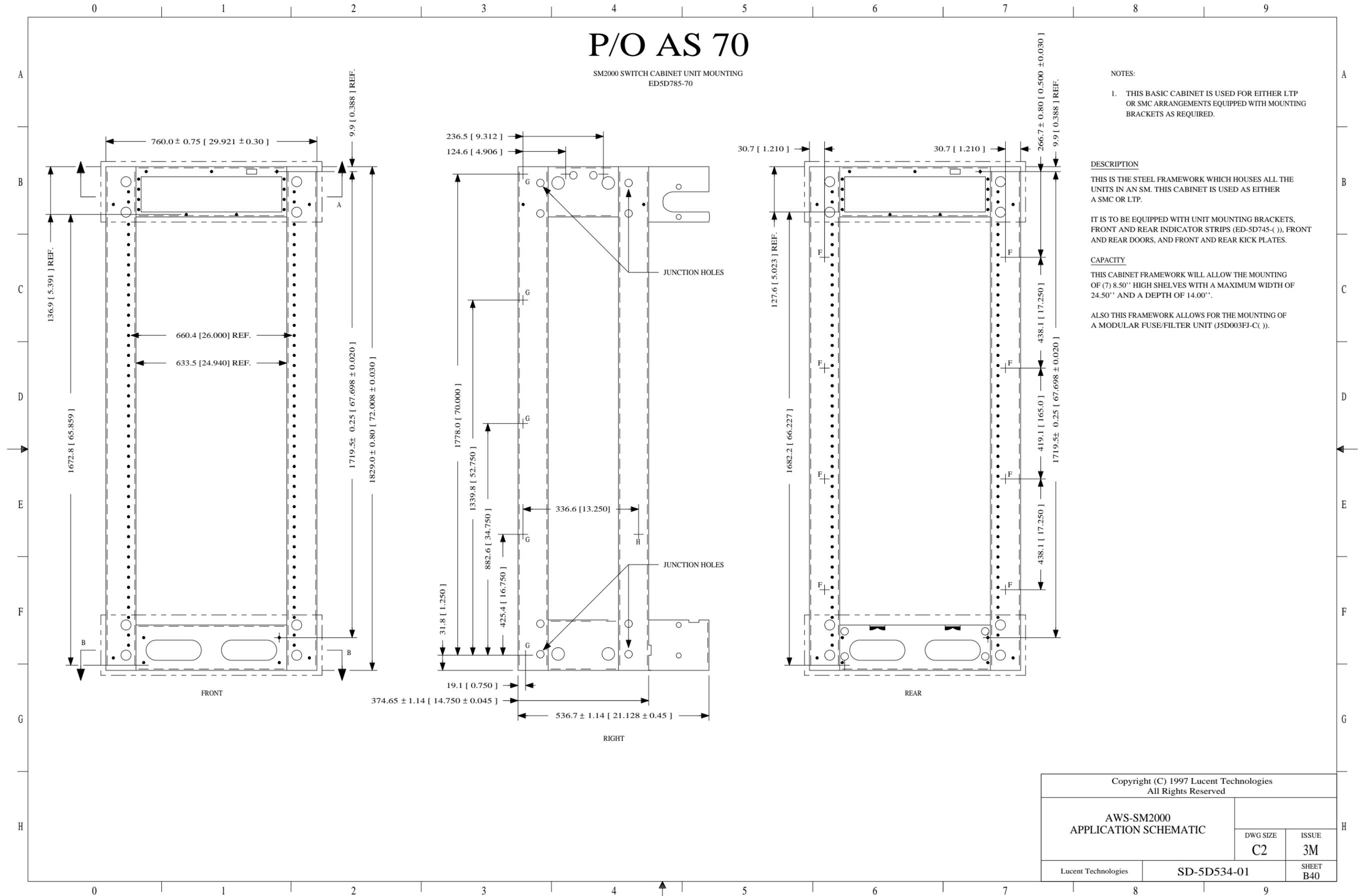
THIS IS THE STEEL FRAMEWORK WHICH HOUSES ALL THE UNITS IN AN SM. THIS CABINET IS USED AS EITHER A SMC OR LTP.

IT IS TO BE EQUIPPED WITH UNIT MOUNTING BRACKETS, FRONT AND REAR INDICATOR STRIPS (ED-5D745-(-)), 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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| DWG SIZE<br>C2  | ISSUE<br>3M |              |
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# P/O AS 70

5ESS-2000 SWITCH CABINET DOOR SWING  
(CABINET DETAIL)

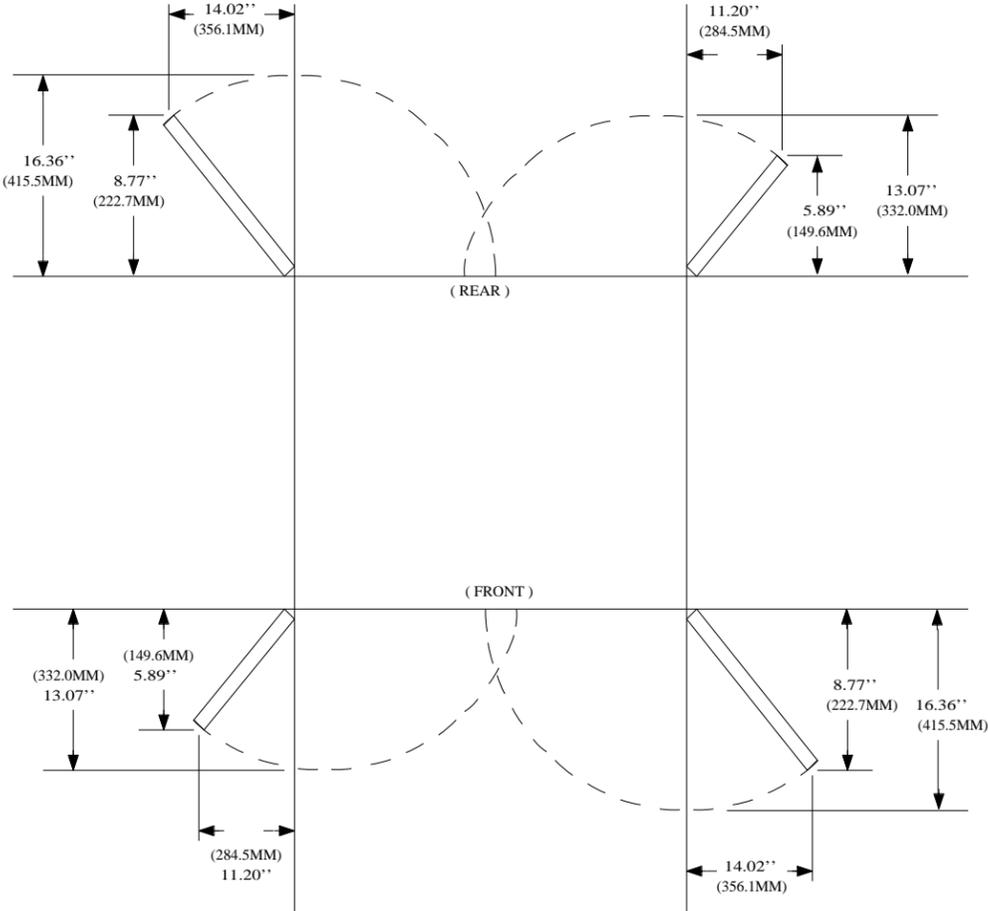


FIGURE 3

|   |  |                |
|---|--|----------------|
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| AWS-SM2000<br>APPLICATION SCHEMATIC                           |  | DWG SIZE<br>C2 |
| Lucent Technologies   |  | ISSUE<br>3M    |
| SD-5D534-01   |  | SHEET<br>B41   |

# P/O AS 70

RECOMMENDED WORK STATION & MCC CONSOLE LAYOUT  
FOR SPARC STATION 5

NOTES:

1. ROOM MUST BE LEFT BEHIND THE PERIPHERAL EQUIPMENT FOR CABLE ROUTING.
2. APPROXIMATELY 9" (210MM) IS REQUIRED BEHIND THE SPARCSTATION 5 FOR CABLE ROUTING.
3. IT IS PERMISSIBLE TO STACK THE "TAPE UNIT" ON TOP OF THE "SPARC STATION 5".
4. IT IS RECOMMENDED THAT THE PRINTER BE LOCATED
5. IF THE 577 PRINTER IS TO BE LOCATED ON THE SAME TABLE AS THE WORK STATION AND SPARCSTATION 5, THE LENGTH OF THE TABLE MUST BE INCREASED FROM 48.0" (1123.3 MM) TO 72.0" (1685.8 MM)
6. IF THE 6417 PRINTER IS TO BE LOCATED ON THE SAME TABLE AS THE WORK STATION AND SPARCSTATION 5, THE LENGTH OF THE TABLE MUST BE INCREASED FROM 48.0" (1123.3 MM) TO 65.0" (1521.0 MM).
7. THE HIGH SPEED INTERFACE IS OPTIONAL.
8. THE 3810/3820 MODEMS ARE OPTIONAL.
9. THE AC PLUG OF THE 3810/3820 MODEMS IS PART OF A POWER CONVERTER WHICH MEASURES 2.5" X 3.0" (58.5 MM X 70.2 MM). THIS DIMENSION MUST BE KEPT IN MIND WHEN PROVIDING THE PROTECTED AC POWER STRIP SINCE IT IS POSSIBLE THAT THE SIZE OF THE CONVERTER MIGHT INTERFERE WITH THE ABILITY TO USE THE ADJACENT OUTLETS ON THE POWER STRIP.
10. IT IS NOT PERMISSIBLE TO STACK THE 3810 AND/OR 3820 MODEMS ON TOP OF ONE ANOTHER.
11. IF ADDITIONAL MODEMS ARE REQUIRED, ADDITIONAL TABLE SPACE WILL BE REQUIRED.
12. CONSOLE SPACE REQUIREMENTS CAN BE REDUCED BY PROVIDING A KEYBOARD DRAWER WITH THE CONSOLE AND/OR SHELVES FOR THE MODEMS.
13. OUTLETS REQUIRED:
  - 1 - SPARC STATION 5
  - 1 - FOR EACH TAPE UNIT
  - 2 - WORKSTATION
  - 1 - PRINTER
  - 1 - FOR EACH MODEM
14. PROVISIONS MUST BE MADE FOR PRINTER PAPER STORAGE AND ROUTING.

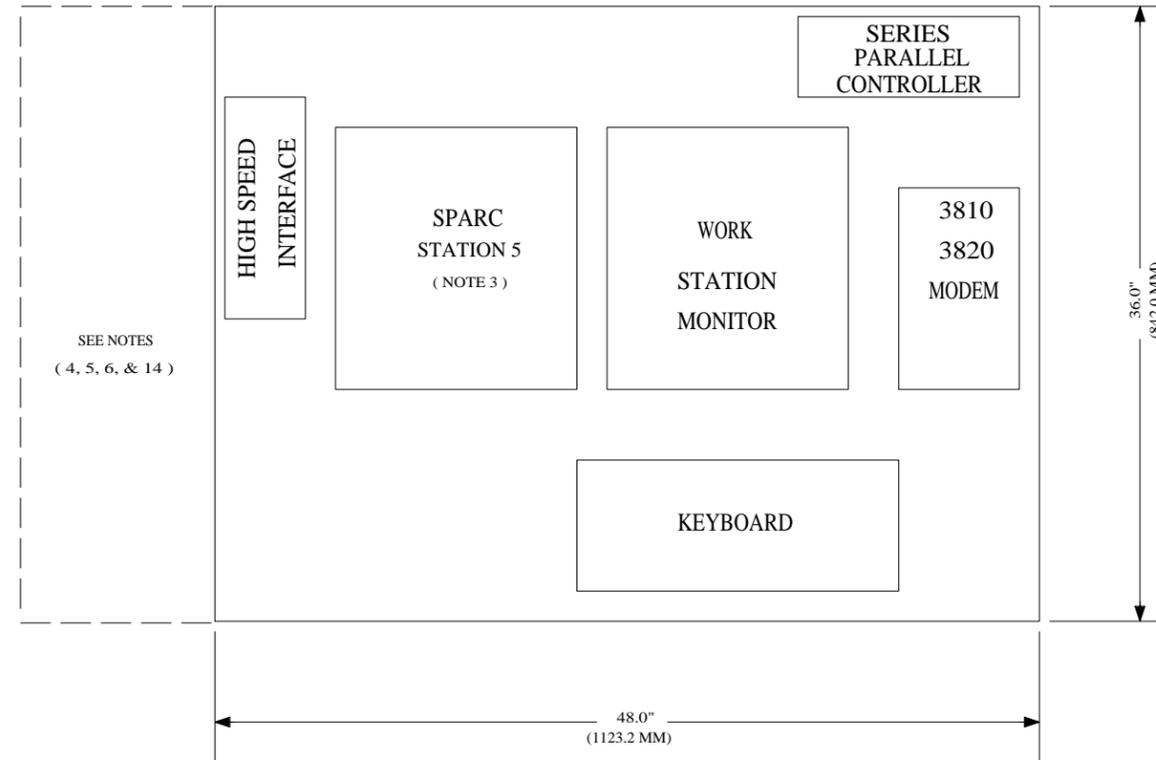
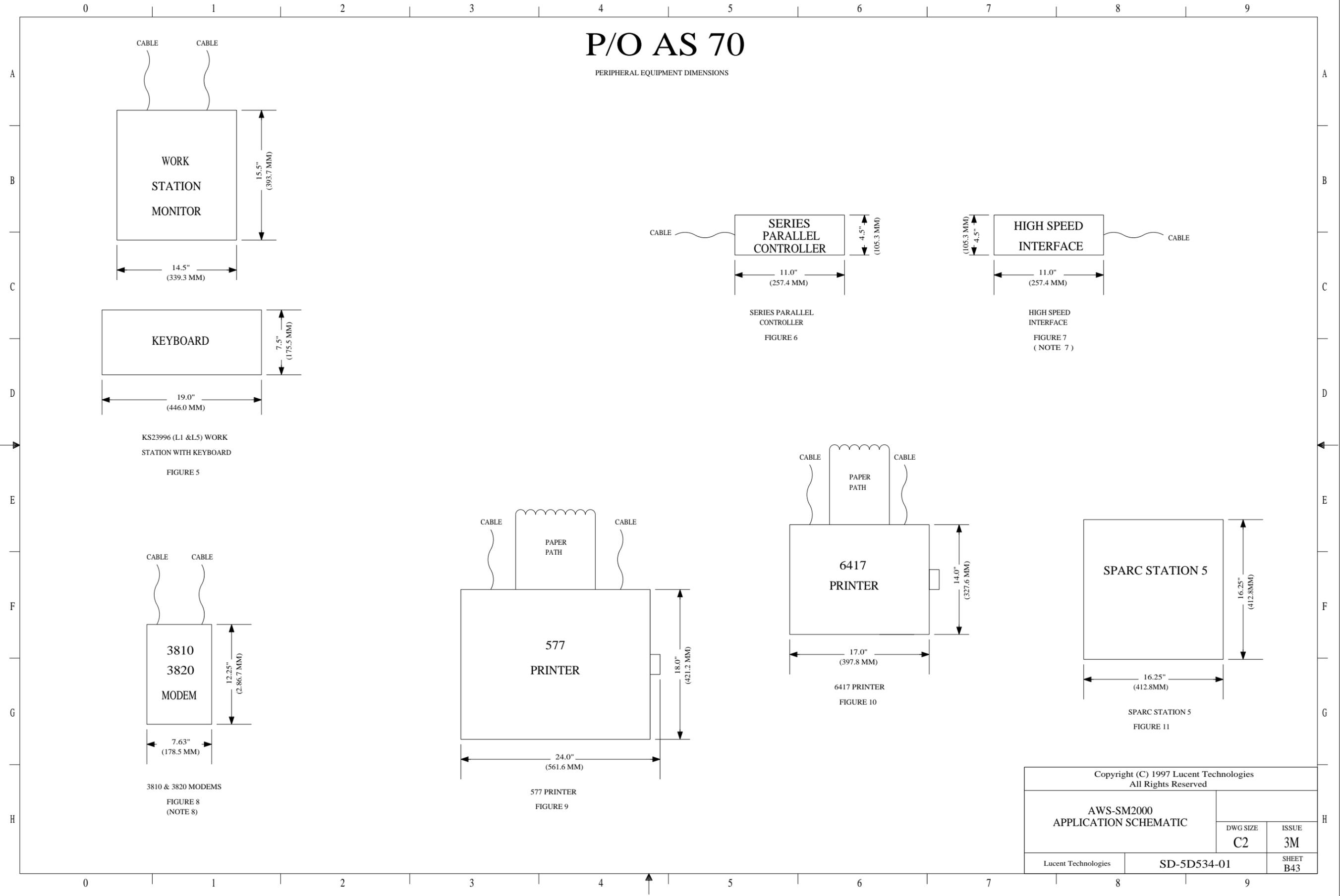


FIGURE 4

|   |             |              |
|---|-------------|--------------|
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| AWS-SM2000<br>APPLICATION SCHEMATIC                           |             |              |
| DWG SIZE<br>C2  | ISSUE<br>3M |              |
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# P/O AS 70

PERIPHERAL EQUIPMENT DIMENSIONS



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| AWS-SM2000<br>APPLICATION SCHEMATIC                           |             |              |
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# P/O AS 71

5ESS<sup>®</sup> SWITCHING SYSTEM FLOORPLAN DATA  
FOR THE SM2000 LINE AND TRUNK  
PERIPHERAL CABINET

| TITLE                                    | DWG NO.   | AREA REQ'D      | DESIGNATION   | FLOORPLAN DETAIL |            |
|--|---|-----------------|---|------------------|------------|
| LINE AND TRUNK PERIPHERAL CABINET        | J5D003P   | SQ FT (SQ M)    | LTP   | CROSS SECTION    | DOOR SWING |
|  |   | 10.96 1.02      |   | FIGURE 2         | FIGURE 3   |
| WEIGHT LBS (KG)                          | LIMITING CONDUCTOR INFORMATION  |                 | PLACEMENT RECOMMENDATIONS   |                  |            |
| 661 (300)                                | PICB, PIDB, AND DPIDB CABLING BETWEEN THE LTP CABINET AND THE SMC MUST NOT EXCEED 28 CABLE FEET (8.53M) IN LENGTH.<br><br>WHEN A LTP CABINET IS EQUIPPED WITH A DLTU, DLTU2 OR DLTU3 IT MUST BE LOCATED WITHIN 655 CABLE FEET (200 M) OF THE DSX BAY. |                 | THE PLACEMENT OF THE LTP CABINETS ARE BASED UPON THE LOCATION OF THEIR ASSOCIATED SMC CABINET WITH WHICH THEY HAVE A FIXED POSITIONAL RELATIONSHIP. |                  |            |
| SYSTEM CABLE CROSS SECTION SQ IN (SQ CM) |   |                 | FLOORPLAN DETAIL  |                  |            |
|  |   |                 | CROSS SECTION DOOR SWING  |                  |            |
| <u>SHIELD 1</u>                          | <u>SHIELD 3</u>   | <u>SHIELD 4</u> |   |                  |            |
|  | 2.0 (5.08)  | 0.75 (1.91)     |   |                  |            |

NOTES:

- LTP CABINETS ASSOCIATED WITH A GIVEN SM2000 CAN BE SPREAD OVER THREE ADJACENT LINE-UPS WITH THE SMC LOCATED IN THE CENTER LINE-UP.

LTP CABINETS LOCATED IN A LINE-UP ACROSS THE AISLE FROM THE LINE-UP CONTAINING THE SMC MUST HAVE A LTP CABINET (LTP 100 AND/OR LPT 200) LOCATED DIRECTLY ACROSS FROM THE SMC FOR CABLING REASONS. THESE CABINETS ARE ATTACHED TO THE SMC VIA A CABLE RACK EMANATING FROM THE SMC.

THE MAXIMUM NUMBER OF LTP CABINETS THAT CAN BE LOCATED ACROSS THE WIRING AISLE FROM THE SMC IS NINE WHILE THE MAXIMUM NUMBER OF LTP CABINETS THAT CAN BE LOCATED ACROSS THE MAINTENANCE AISLE FROM THE SMC IS FIVE. THIS IS DUE TO PICB, PIDB, AND DPIDB CABLE LENGTH RESTRICTIONS. THIS NUMBER IS BASED UPON A MINIMUM WIRING AISLE WIDTH OF 2-0 FT (610 MM) AND A MINIMUM MAINTENANCE AISLE WIDTH OF 2-10 FT (864 MM). IF THE WIRING AND/OR MAINTENANCE AISLE WIDTH IS INCREASED, THE NUMBER OF LTP CABINETS THAT CAN BE LOCATED ACROSS THE WIRING AND/OR MAINTENANCE AISLE WOULD DECREASE. (SEE NOTE 7)

- LTP CABINETS ARE NUMBERED AS AN INTEGRAL PART OF A SM2000 AND ARE GIVEN A FIXED CABINET NUMBER AS RELATED TO THEIR ASSOCIATED SMC. CABINETS LOCATED IN THE SAME LINE-UP AS THE SMC WILL BE ASSIGNED A (0XX) NUMBER, CABINETS LOCATED ACROSS THE MAINTENANCE AISLE WILL BE ASSIGNED A (1XX) NUMBER WHILE CABINETS LOCATED ACROSS THE WIRING AISLE WILL BE ASSIGNED A (2XX) NUMBER. SEE THE SM2000 CABINET LAYOUT FIGURES FOR THE NUMBERING SCHEME AND A MAXIMUM LAYOUT OF A SM2000 UTILIZING PIDBS, PICBS, AND/OR DPIDBS.

- LTP CABINETS ASSOCIATED WITH A GIVEN SM2000 ARE GROWN OUTWARD FROM THE SMC, LTP 100, AND/OR LTP 200 DEPENDING UPON WHICH LINE-UP THE LTP CABINETS ARE BEING GROWN ONTO. LTP CABINETS GROWN TO THE LEFT OF A SMC, LTP 100, AND LTP 200 (AS VIEWED FROM THE LINE-UP'S MAINTENANCE AISLE) ARE ASSIGNED AN ODD CABINET NUMBER WHILE LTP CABINETS GROWN TO THE RIGHT OF THE SMC, LTP 100, AND LTP 200 (AS VIEWED FROM THE LINE-UP'S MAINTENANCE AISLE) ARE ASSIGNED AN EVEN CABINET NUMBER.

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| AWS-SM2000<br>APPLICATION SCHEMATIC                           |             |              |
| DWG SIZE  | ISSUE       |              |
| C2  | 3M          |              |
| Lucent Technologies   | SD-5D534-01 | SHEET<br>B44 |

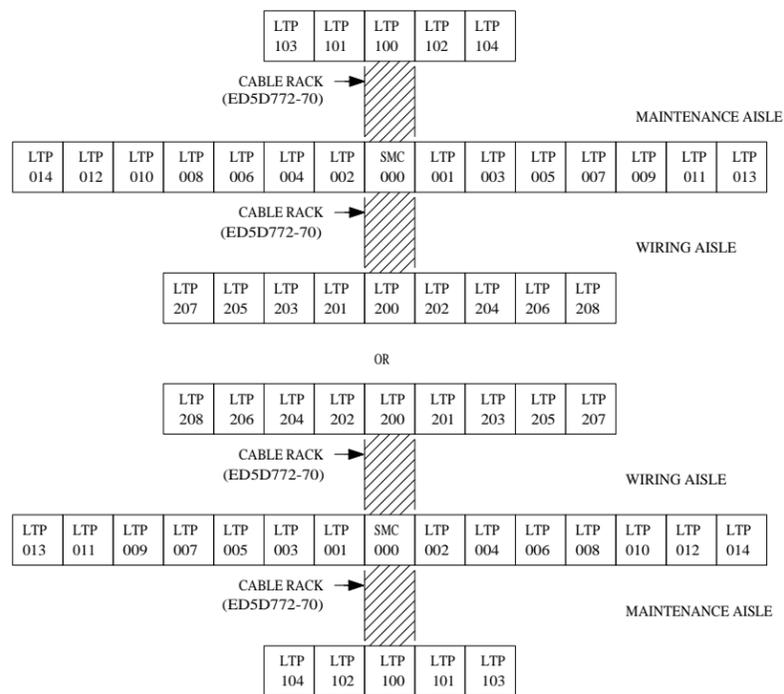
# P/O AS 71

5ESS<sup>®</sup> SWITCHING SYSTEM FLOORPLAN DATA  
FOR THE SM2000 LINE AND TRUNK  
PERIPHERAL CABINET

|   |                    |                    |
|---|--------------------|--------------------|
| TITLE<br>LINE AND TRUNK PERIPHERAL<br>CABINET | DWG NO.<br>J5D003P | DESIGNATION<br>LTP |
|---|--------------------|--------------------|

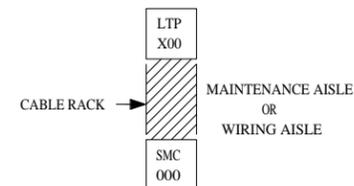
**NOTES:**

- BALANCED GROWTH OF LTP CABINETS TO THE RIGHT AND LEFT OF THE SMC, LTP 100, AND LTP 200 IS RECOMMENDED.
- ALL LTP CABINETS ASSOCIATED WITH A GIVEN SM2000 MUST BE MOUNTED CONTIGUOUSLY WITH EITHER ANOTHER LTP CABINET (ASSOCIATED WITH THE SAME SM2000) OR THE SMC. THESE CABINETS CAN NOT BE SEPARATED BY A BUILDING COLUMN, CROSS AISLE, VACANT FLOOR SPACE, ETC..
- THE LINE ENGINEER SHOULD WORK WITH THE CUSTOMER IN ORDER TO DETERMINE THE BEST FLOORPLAN FOR A GIVEN OFFICE AND SHOULD NOT ASSUME THAT ALL SM2000'S WILL BE EQUIPPED WITH THE MAXIMUM NUMBER OF LTP CABINETS. THE LINE ENGINEER SHOULD ALSO ANTICIPATE GROWTH AND PROVIDE AMPLE FLOOR SPACE FOR LTP GROWTH AND GROWTH OF ADDITIONAL SM2000S.
- THE NUMBER OF CROSS-AISLE LTP CABINETS IS DEPENDENT UPON AISLE WIDTH. IF THE AISLE SPACING IS INCREASED AN ADDITIONAL:  
1.00" - 12.00" (25.4MM - 305.0MM), THE NUMBER OF CROSS-AISLE LTPS IS REDUCED BY TWO.  
12.01" - 24.00" (305.1MM - 610.0MM), THE NUMBER OF CROSS-AISLE LTPS IS REDUCED BY FOUR.
- MAXIMUM SM2000 CABINET LAYOUT

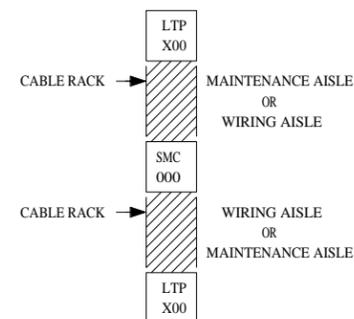


**NOTES (CONT):**

- THE MINIMUM SM2000 CABINET LAYOUT FOR A LTP CABINET MOUNTED ACROSS THE WIRING OR MAINTENANCE AISLE IS AS FOLLOWS:



- THE MINIMUM SM2000 CABINET LAYOUT FOR LTP CABINETS MOUNTED ACROSS BOTH THE WIRING AND MAINTENANCE AISLE IS AS FOLLOWS:



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AWS-SM2000  
APPLICATION SCHEMATIC

DWG SIZE  
C2

ISSUE  
3M

Lucent Technologies

SD-5D534-01

SHEET  
B45

# P/O AS 71

5ESS<sup>®</sup> SWITCHING SYSTEM FLOORPLAN DATA  
MISCELLANEOUS CABINET

| TITLE                                    | DWG NO.         | AREA REQ'D<br>SQ FT (SQ M)     | DESIGNATION | FLOORPLAN DETAIL                  |                               |
|--|-----------------|--------------------------------|-------------|-----------------------------------|-------------------------------|
| MISCELLANEOUS CABINET                    | J5D005C         | 10.96 1.02                     | M           | <u>CROSS SECTION</u><br>FIGURE 2  | <u>DOOR SWING</u><br>FIGURE 3 |
| WEIGHT LBS(KG)<br>650 (295)              |                 | LIMITING CONDUCTOR INFORMATION |             | PLACEMENT RECOMMENDATIONS<br>NONE |                               |
| SYSTEM CABLE CROSS SECTION SQ IN (SQ CM) |                 |                                |             |                                   |                               |
| <u>SHIELD 1</u>                          | <u>SHIELD 3</u> | <u>SHIELD 4</u>                |             |                                   |                               |
| —  | 1.4 (3.56)      | 0.7 (1.78)                     |             |                                   |                               |

NOTES:

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| AWS-SM2000<br>APPLICATION SCHEMATIC                           |             |              |
| DWG SIZE<br>C2  | ISSUE<br>3M |              |
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# P/O AS 71

5ESS<sup>®</sup> SWITCHING SYSTEM FLOORPLAN DATA  
FOR THE SM2000 LINE AND TRUNK  
CONTROL CABINET

| TITLE                                    | DWG NO.         | AREA REQ'D  | DESIGNATION | FLOORPLAN DETAIL  |                               |
|--|-----------------|---|-------------|---|-------------------------------|
| SWITCHING MODULE CONTROL CABINET         | J5D003N         | SQ FT (SQ M)<br>10.96 1.02  | SMC         | <u>CROSS SECTION</u><br>FIGURE 2  | <u>DOOR SWING</u><br>FIGURE 3 |
| WEIGHT LBS(KG)<br>500 (227)              |                 | LIMITING CONDUCTOR INFORMATION<br><br>THE MAXIMUM LENGTH OF ANY INDIVIDUAL PICB, PIDB, AND/OR DPIDB CABLE CAN NOT EXCEED 28 CABLE FEET (8.53M) IN LENGTH. |             | PLACEMENT RECOMMENDATIONS<br><br>THE SMC MUST BE LOCATED ADJACENT TO ITS ASSOCIATED LINE AND TRUNK PERIPHERAL CABINETS.<br><br>SEE THE "SM2000 LTP" NOTES FOR TYPICAL INSTALLATION AND CABINET NUMBERING. |                               |
| SYSTEM CABLE CROSS SECTION SQ IN (SQ CM) |                 |   |             |   |                               |
| <u>SHIELD 1</u>                          | <u>SHIELD 3</u> | <u>SHIELD 4</u>   |             |   |                               |
| 4.4 (28.39)                              | 14.4 (91.62)    | 1.6 (10.32)   |             |   |                               |
| NOTES:                                   |                 |   |             |   |                               |

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# P/O AS 71

5ESS<sup>®</sup> SWITCHING SYSTEM FLOORPLAN DATA  
POWER DISTRIBUTION CABINET

| TITLE  | DWG NO.   | AREA REQ'D<br>SQ FT (SQ M) | DESIGNATION | FLOORPLAN DETAIL   |                               |
|--|---|----------------------------|-------------|--|-------------------------------|
| POWER DISTRIBUTION CABINET   | J86334E   | 10.96 1.02                 | GPDF        | <u>CROSS SECTION</u><br>FIGURE 2   | <u>DOOR SWING</u><br>FIGURE 3 |
| WEIGHT LBS (KG)<br>500 (230)   | LIMITING CONDUCTOR INFORMATION<br>WIRING BETWEEN POWER SOURCE AND THE GPDF IS LIMITED IN LENGTH SUCH THAT THE MAXIMUM VOLTAGE DROP DOES NOT EXCEED DEFINED LIMITS. SEE SD-5D005-01 FOR THESE LIMITS.<br><br>WIRING BETWEEN GPDF AND OTHER 5ESS <sup>®</sup> EQUIPMENT IS LIMITED IN LENGTH SUCH THAT THE MAXIMUM VOLTAGE DROP DOES NOT EXCEED DEFINED LIMITS. SEE SD-5D005-01 FOR THESE LIMITS. |                            |             | PLACEMENT RECOMMENDATIONS<br>POWER DISTRIBUTION CABINETS (GPDF) SHOULD BE CENTRALLY LOCATED WITH RESPECT TO THE CABINETS THEY WILL ULTIMATELY SERVE.<br>GPDF CABINETS SHALL BE PLACED IN LINE WITH ONE ANOTHER TO SIMPLIFY VIA AND CROSS-AISLE CABLE RACKING.<br><br>TO AVOID CABLE CONGESTION, GPDF CABINETS SHALL BE LOCATED AS FAR AS PRACTICABLE FROM THE DISTRIBUTING FRAME AREA OR VIA CABLE PINS TO THE DISTRIBUTING FRAME AREA. A LOCATION APPROXIMATELY TWO THIRDS OF THE LENGTH OF THE LINEUP FROM THE DISTRIBUTING FRAME AREA IS RECOMMENDED. |                               |
| SYSTEM CABLE CROSS SECTION SQ IN (SQ CM)   |   |                            |             |  |                               |
| <u>SHIELD 1</u>  | <u>SHIELD 3</u>   | <u>SHIELD 4</u>            |             |  |                               |
| —  | —   | —                          |             |  |                               |
| <p>NOTES:</p> <ol style="list-style-type: none"> <li>GPDF CABINETS ARE NUMBERED 00,01,02,ETC.</li> <li>SEE FPD 802-185-155-( ) FOR SPECIFIC FLOOR PLAN INFORMATION ON GPDF CABINETS. FOR SPECIFIC INFORMATION ON POWER SYSTEMS, FPD 802-679-171, FPD 802-680-160, AND FPD 802-681-160 FOR 151B, 153A, AND 155A POWER PLANTS, RESPECTIVELY.</li> <li>THE WEIGHT OF 500 LBS DOESN'T INCLUDE CABLE RACK OR CABLES.</li> </ol> |   |                            |             |  |                               |

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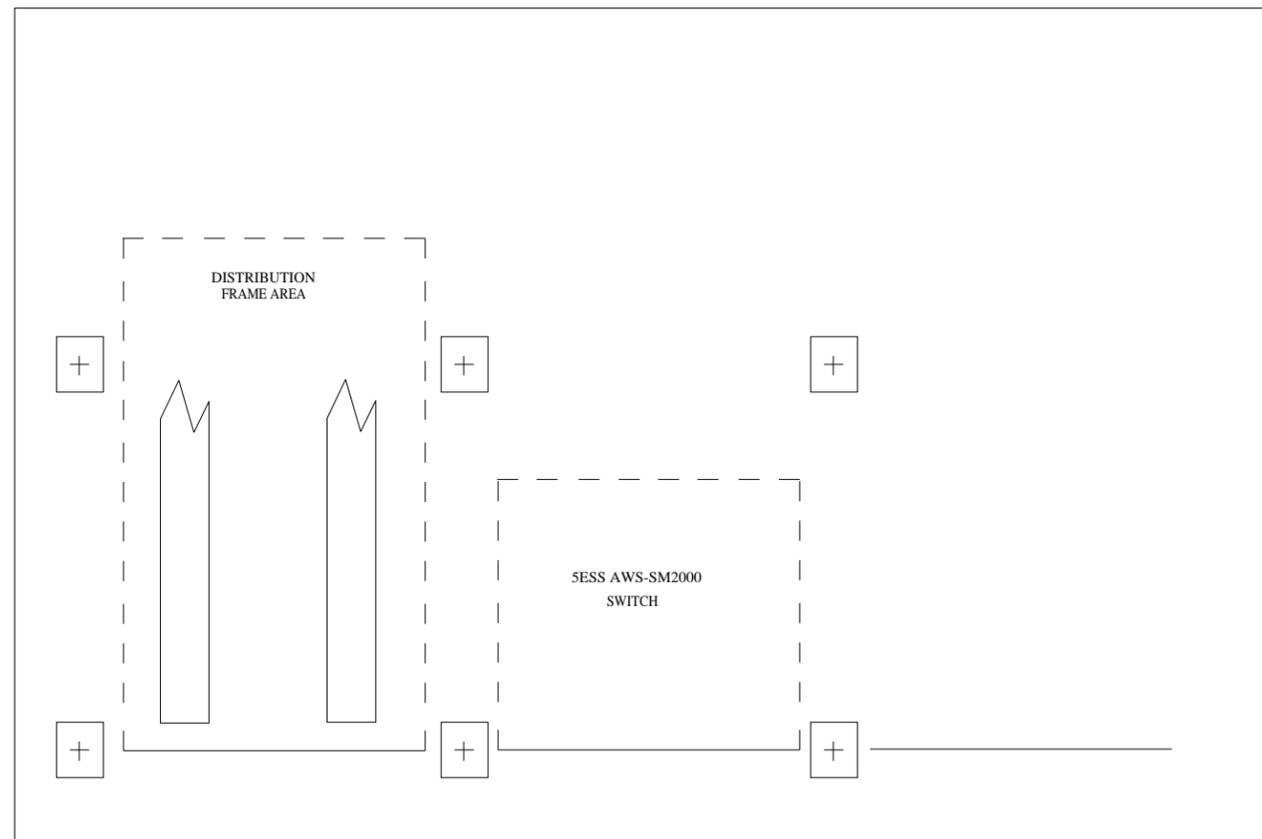
0 1 2 3 4 5 6 7 8 9

# AS 72

TYPICAL FUNCTIONAL AREAS

NOTES:

1. CABLING TO THE DISTRIBUTION FRAME FROM THE SM IS LIMITED TO A MAXIMUM OF 300 FEET.



A  
B  
C  
D  
E  
F  
G  
H

A  
B  
C  
D  
E  
F  
G  
H

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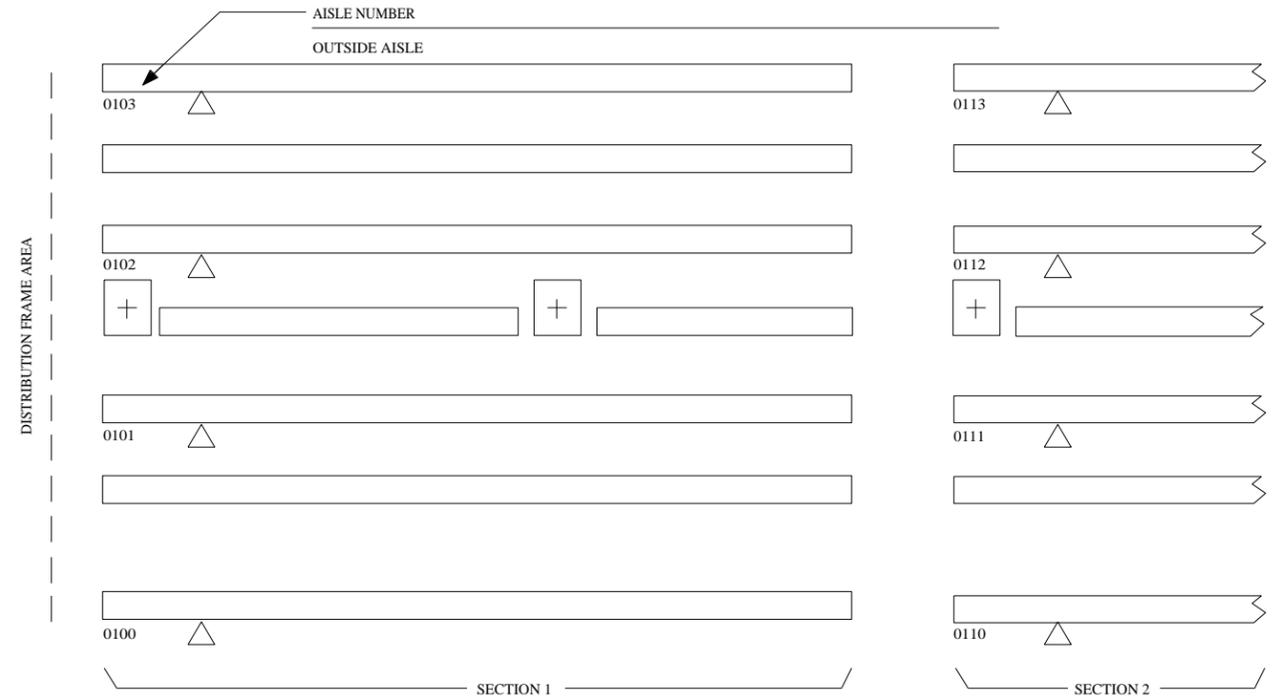
0 1 2 3 4 5 6 7 8 9

# AS 73

AISLE NUMBERING

NOTES:

1. THE FIRST TWO DIGITS OF THE AISLE NUMBER REPRESENT THE FLOOR NUMBER. THE SECOND TWO DIGITS OF THE AISLE NUMBER REPRESENT THE MAINTENANCE AISLE.
2. FLOOR NUMBERING 00, REPRESENT THE BASEMENT LEVEL WITH 0A, 0B, ETC. INDICATING LOWER LEVELS AND 01, 02 ETC. REPRESENT THOSE FLOORS ABOVE THE BASEMENT.
3. MAINTENANCE AISLES ARE NUMBERED FROM 00. AISLE NUMBERS SHOULD BE RESERVED IN GROUPS OF 10 TO ACCOMMODATE THE ULTIMATE OFFICE GROWTH OF EACH SECTION AND ASSURE A CONSECUTIVE NUMBERING ARRANGEMENT. IF HOWEVER, EACH SECTION WAS TO CONTAIN MORE THAN 10 AISLES, THEN 20 NUMBERS WOULD BE RESERVED FOR EACH SECTION AND AISLE NUMBERING FOR SECTION 2 WOULD THEN START AT 0102. AISLE NUMBERING FOR SECTION 1 WOULD REMAIN UNCHANGED.
4. WIRING AISLES ARE NOT NUMBERED.
5. AN ALPHANUMERIC CONTROL GROUP DESIGNATION SHALL BE ASSIGNED TO EACH ESS CONTROL GROUP IN A CENTRAL OFFICE BUILDING. DESIGNATIONS D0 TO D9 HAVE BEEN ALLOCATED FOR NO. 5ESS AND SHALL BE ASSIGNED IN NUMERICAL SEQUENCE BEGINNING WITH D0. THE CONTROL GROUP NUMBER APPEARS ON THE CABINET DESIGNATION STRIP, BOTH FRONT AND BACK. ON FLOORPLANS WHERE ONLY ONE CONTROL GROUP IS SHOWN ON THE SHEET, INDICATE THE CONTROL GROUP DESIGNATION IN A SHEET NOTE. WHERE MORE THAN ONE CONTROL APPEARS ON A SHEET, IDENTIFY THE AREA BY USING BRACKETS, BROKEN LINES BETWEEN OR AROUND AREAS, OR THE CONTROL GROUP DESIGNATION PREFIXING EACH CABINET NUMBERS.
6.  INDICATES FRONT OR MAINTENANCE SIDE OF LINE-UP.

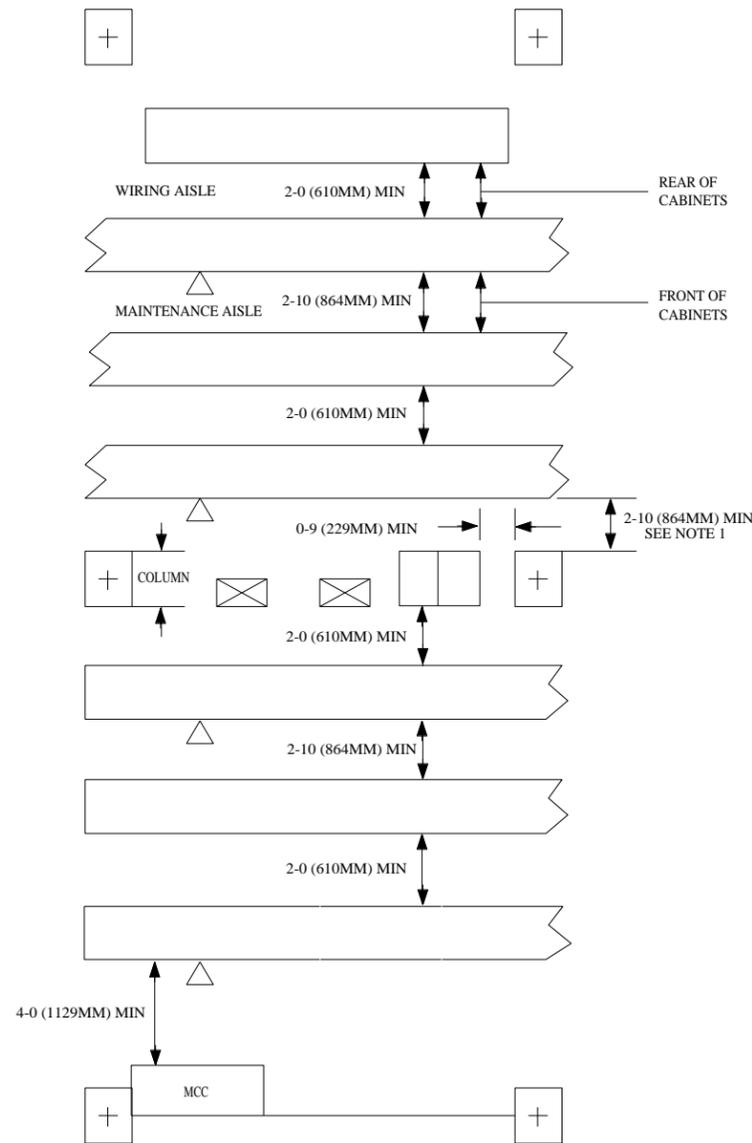


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| AWS-SM2000<br>APPLICATION SCHEMATIC                           |                    |                     |
| DWG SIZE<br><b>C2</b>   | ISSUE<br><b>3M</b> |                     |
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# P/O AS 74

AISLE SPACING

TYPICAL OFFICE



NOTES:

1. IN GENERAL, A UNIFORM SPACING OF AISLES, WIRING MINIMUM 2-0 FT (610 MM) AND A MAINTENANCE 2-10 FT (864 MM) AFTER DOOR INSTALLATION SHOULD BE MAINTAINED BETWEEN CABINET LINEUPS THAT ARE IN LINE WITH THE BUILDING COLUMNS. UNDER CERTAIN CONDITIONS, IT MAY BE DESIRABLE TO LEAVE VACANT SPACE IN THE CABINET LINE-UP OPPOSITE THE COLUMN WHEN THERE IS INSUFFICIENT SPACE FOR CABINET MAINTENANCE OR FOR MOVEMENT OF PORTABLE TEST EQUIPMENT THROUGH THE AISLE. A 2-10 FT (864 MM) AISLE AFTER DOOR INSTALLATION IS CONSIDERED THE MINIMUM SPACE REQUIRED FOR INSTALLATION OF SESS CABINETS.
2. A MINIMUM AISLE OF 4-0 FT (1129 MM) AFTER DOOR INSTALLATION IS REQUIRED IN FRONT OF THE MASTER CONTROL CENTER (CONSOLE OR CABINETS) OR SUPPLEMENTARY LINE AND TRUNK WORK STATION AND PROCESSOR CABINETS.
3. A MINIMUM GAP OR SPACING OF 2 INCHES (51 MM) SHOULD BE MAINTAINED BETWEEN EQUIPMENT ON ESS GROUND AND EQUIPMENT ON BUILDING GROUNDS.
4. WHEN COLUMN SPACING VARIES FROM THE STANDARD 20-0 FT (6100 MM), MAINTENANCE AND WIRING AISLES MAY BE ALTERED TO MEET SPECIFIC JOB REQUIREMENTS. INDICATED MINIMUMS MAY BE VIOLATED. FURTHER GUIDANCE ON EQUIPMENT LOCATION IN BUILDINGS WITH NONSTANDARD COLUMN SPACING IS FOUND IN LUCENT TECHNOLOGIES P SECTION 760-100-032.
5. END AISLE AND OUTSIDE AISLE DIMENSIONS SHOULD BE SPECIFIED SUCH THAT THEY SATISFY TRAFFIC AND SAFETY REQUIREMENTS. SEE OSHA (OCCUPATIONAL SAFETY AND HEALTH ACT) AND LOCAL REQUIREMENTS FOR ADDITIONAL DETAILS. END AISLE SPACING ALONG THE DISTRIBUTING FRAME AREA IS SPECIFIED IN FPD 801-005-164. A MINIMUM END AISLE OF 3-0 FT (914 MM) IS RECOMMENDED IN GENERAL. A MINIMUM OF 4-0 FT (1219 MM) IS REQUIRED BETWEEN SESS AND ALL OTHER FRAMEWORKS. THE FOLLOWING RECOMMENDED EXCEPTIONS MAY BE MADE TO MEET SPECIFIC APPLICATION REQUIREMENTS:
  - MINIMUM 2-0 FT (610 MM)
  - 1. SESS EQUIPMENT IN 6 FT. HIGH CABINETS
  - 2. CARRIER EQUIPMENT
  - 3. CUSTOMER PREMISE EQUIPMENT
  - 4. STEP BY STEP
  - 5. NO. 5 CROSS BAR
  - 6. POWER EQUIPMENT
  - 7. OTHER ESS

MINIMUM 7-0 FT FROM MICROWAVE RADIO/WAVE GUIDE. SEE REFERENCE TO ED5D805-10 UNDER ENGINEERING NOTE "PROXIMITY GROUNDING FOR GUIDANCE.

CAUTION: MINIMUM MAINTENANCE, WIRING AISLES, OSHA AND LOCAL REQUIREMENTS MAY NOT BE VIOLATED.

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AWS-SM2000  
APPLICATION SCHEMATIC

|          |       |
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| DWG SIZE | ISSUE |
| C2       | 3M    |

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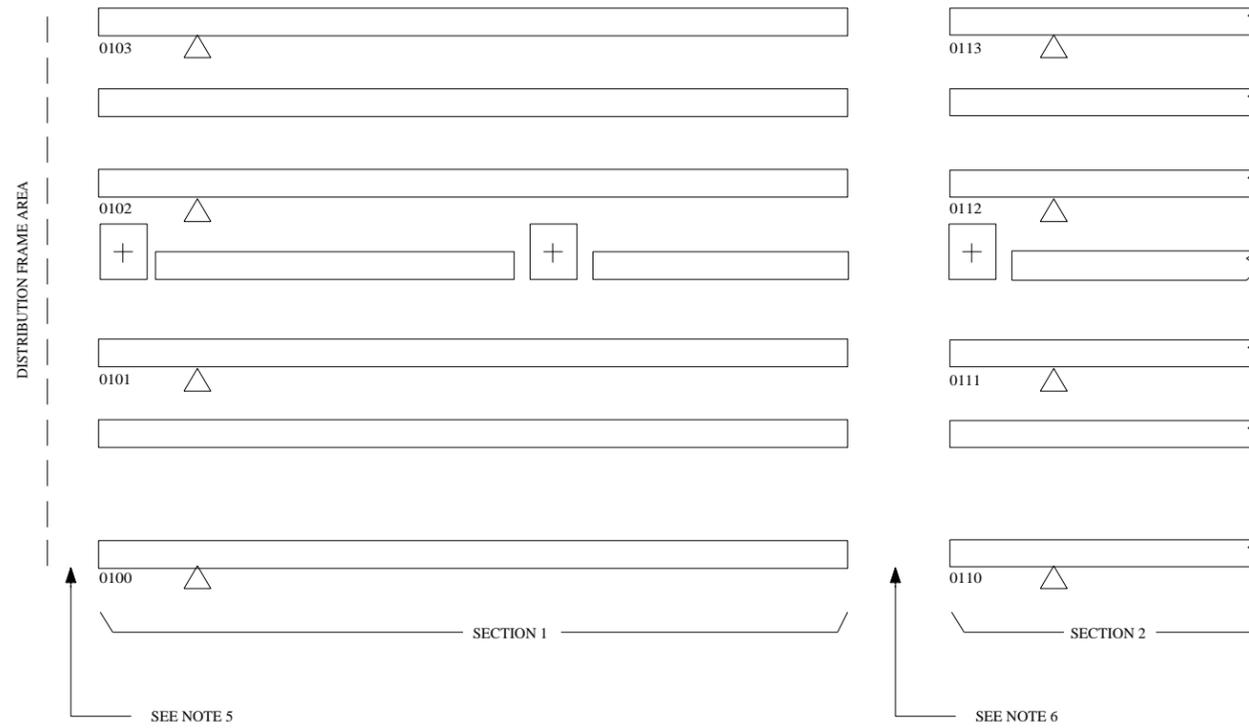
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| SHEET |
| B51   |

# P/O AS 74

AISLE SPACING

NOTES: (CONT)

- 6. THE MAIN AISLE WIDTH BETWEEN TWO GROUPS OF SESS EQUIPMENT IS A MINIMUM OF 4-0 FT (1219 MM).



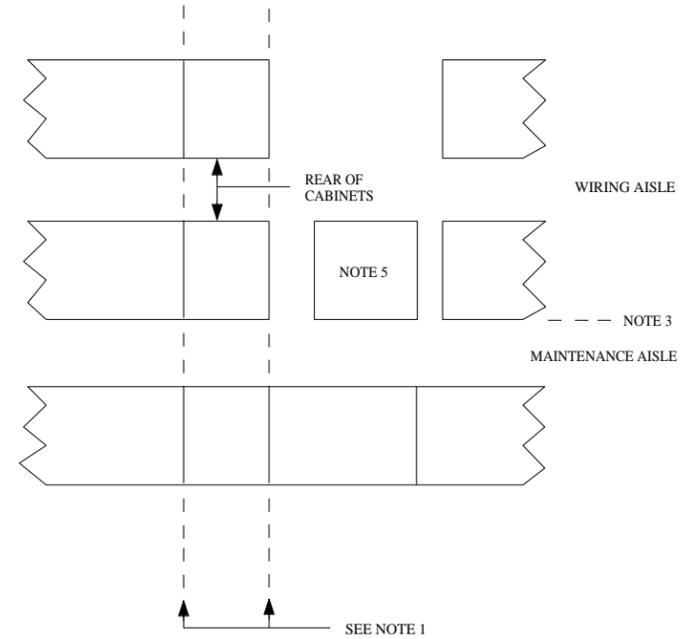
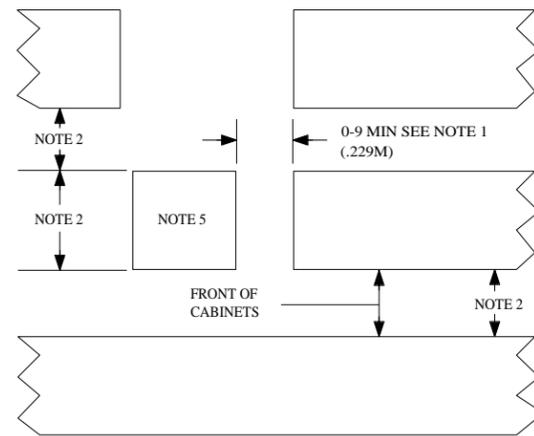
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# AS 75

COLUMNS AND COLUMN SPACING

NOTES:

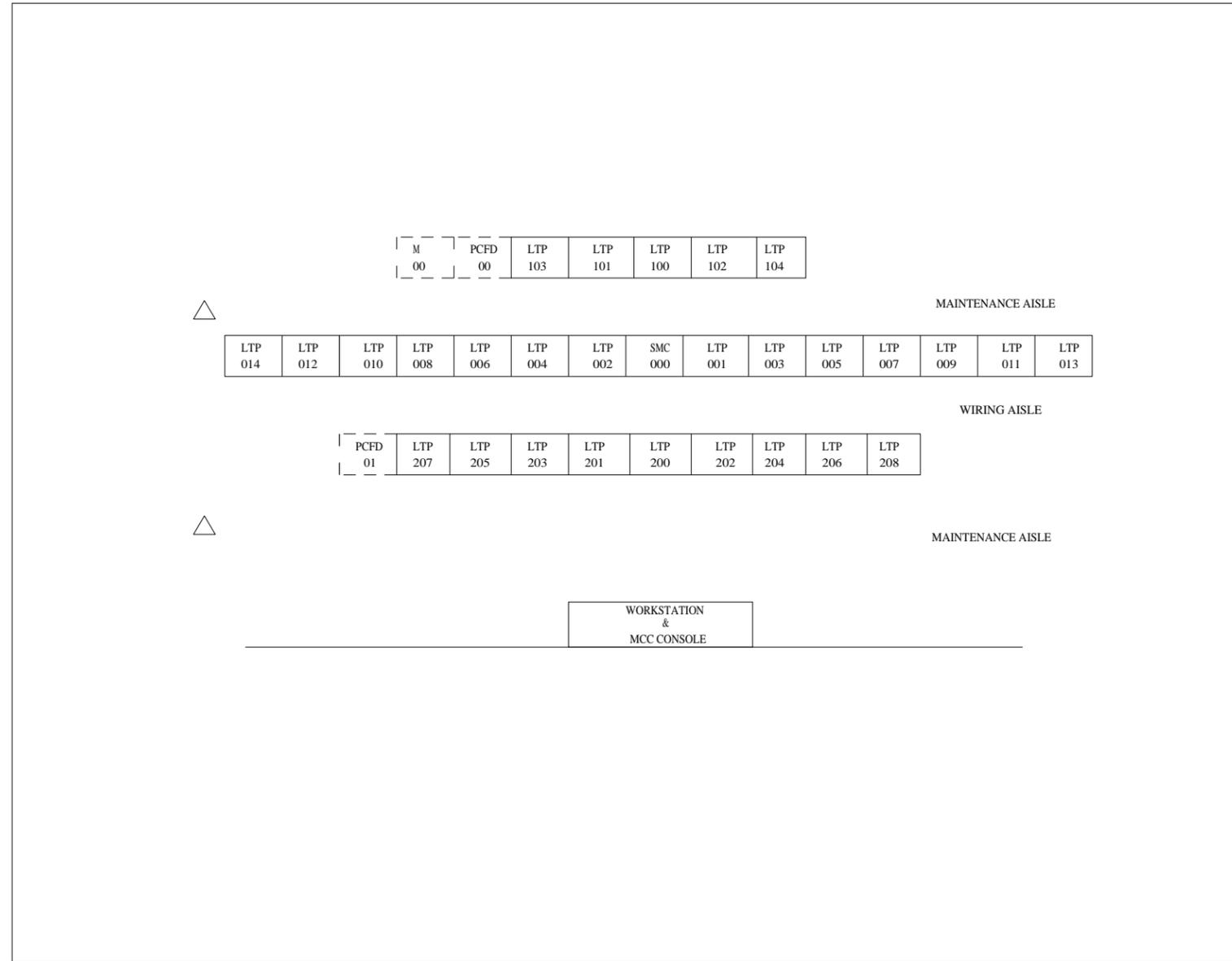
- CABINETS IN THE COLUMN LINE SHOULD BE AT LEAST 9 INCHES (229 MM) FROM THE COLUMN. THIS 9 INCHES (229 MM) DIMENSION IS NOT TO BE USED AS STARTING POINT FOR LOCATING CABINETS AS CABINETS LOCATED BETWEEN COLUMNS MUST BE ALIGNED WITH THE CABINETS IN THE ADJACENT LINEUPS THROUGHOUT THE OFFICE IN ORDER TO ACCOMMODATE CROSS-AISLE CABLE RACKS AND CABINET SUPPORTED LIGHTING.
- THE DEPTH OF THE COLUMN IS NOT CONSIDERED SIGNIFICANT AS LONG AS THE MINIMUM AISLE DIMENSIONS ARE MET ALONG THE ENTIRE LENGTH OF THE AISLE.
- THE REFERENCE MARK SHOWN INDICATES THAT THE LOCATION OF EQUIPMENT LINEUPS IS REFERENCED TO THAT FACE OF THE COLUMN.
- CARE SHOULD BE TAKEN WHEN PLACING EQUIPMENT LINEUP BETWEEN COLUMNS:
  - TO ASSURE THAT CABLE HOLES (FOR ACCESS BETWEEN BUILDING FLOORS) ARE NOT OBSTRUCTED.
  - TO AVOID EXCESS BUILD-UP OF CABLES.
- WHERE THE TERM COLUMN IS USED, IT SHOULD BE UNDERSTOOD THAT THE RECOMMENDATIONS MADE HEREIN SHOULD ALSO APPLY TO ANY PERMANENT UPRIGHT FLOOR OBSTACLE SUCH AS AIR CONDITIONING DUCTS, VERTICAL CABLE RACK, ETC.
- WHEN EQUIPMENT IS LOCATED IN MULTISTORY BUILDINGS, CABINETS WITHIN COLUMN LINES MAY NOT OBSTRUCT CABLE HOLES. SEE LUCENT TECHNOLOGIES P 800-610-164 FOR GUIDANCE IN LOCATING CABINETS IN COLUMN LINES IN THESE CASES.



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# AS 76

MAXIMUM FLOORPLAN  
FLOORPLANS



|    |      |     |     |     |     |     |
|----|------|-----|-----|-----|-----|-----|
| M  | PCFD | LTP | LTP | LTP | LTP | LTP |
| 00 | 00   | 103 | 101 | 100 | 102 | 104 |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| LTP | SMC | LTP |
| 014 | 012 | 010 | 008 | 006 | 004 | 002 | 000 | 001 | 003 | 005 | 007 | 009 | 011 | 013 |

|      |     |     |     |     |     |     |     |     |     |     |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| PCFD | LTP |
| 01   | 207 | 205 | 203 | 201 | 200 | 202 | 204 | 206 | 208 |     |

WORKSTATION  
&  
MCC CONSOLE

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CIRCUIT NOTES:

101.

| DESIG                 | FUSE AMP | POTENTIAL            | ONE PER |
|-----------------------|----------|----------------------|---------|
| <u>BATTERY SYMBOL</u> |          | <u>VOLTAGE RANGE</u> |         |

FLOORPLAN NOTES:

150. FLOOR LOADING FOR 5ESS EQUIPMENT USING RECOMMENDED MINIMAL SPACING IS 100 LB. PER SQ. FT.. USING GREATER AISLE SPACING, THE FLOOR LOADING CAN BE ENGINEERED TO LESS THAN 100 LB. PER SQ. FT..
151. WEIGHTS GIVEN IN THE TABLES ARE FOR CABINETS ONLY. WEIGHT OF ASSOCIATED CABLING, 600MM LINEUP CABLE RACK, CROSS-AISLE ABLE TROUGH, AND EQUIPMENT SUPPORT LIGHTING MAY BE APPROXIMATED AT 25 POUNDS (11.34 KG) PER FOOT SQUARED DISTRIBUTED OVER 5ESS EQUIPMENT.
152. ALL DIMENSIONS ARE SHOWN IN FEET-INCHES AND IN MILLIMETERS( ).
153. FOR 5ESS CABLE RACK. SHIELD 1 CONTAINS OPTICAL FIBER CABLE ONLY. SHIELD 3 CONSISTS OF SWITCHBOARD, RIBBON, AND ALL OTHER CABLING. SHIELD 4 DATA INCLUDES POWER AND GROUND CABLING. PHYSICALLY, SHIELD 3 AND 4 ARE WITHIN THE SAME CABLE RACK SHIELD.
154. ALL AISLE DIMENSIONS INCLUDE CABINET DOOR AND END GUARD THICKNESSES AND ANY OTHER HARDWARE, SUCH AS THE ALARM STATUS UNIT (ASU), WHICH PROTRUDES FROM THE CABLE RACK.
155. WHEN EQUIPMENT AREA HEAT LOADS ARE EXPECTED TO EXCEED 40 WATTS PER SQUARE FOOT FOR SPECIAL EQUIPMENT COOLING REQUIREMENTS SEE LUCENT TECHNOLOGIES P 760-230-101 AND LUCENT TECHNOLOGIES P 760-550-260.
156. CURRENT DRAIN INFORMATION CAN BE FOUND IN SD5D002-() AND SD5D005-(). CALCULATE HEAT RELEASE USING A VALUE OF 52.08V AND THE FORMULA:  
 $P \text{ (WATTS)} = I \text{ (AMPS)} \times E \text{ (VOLTS)}$
157. FOR GUIDANCE IN PLANNING OF THE BUILDING MECHANICAL SYSTEM FOR DISSIPATING THE HEAT GENERATED IN THE TYPICAL SYSTEM FLOORPLANS, CONSULT LUCENT TECHNOLOGIES P 760-230-101 AND LUCENT TECHNOLOGIES P 760-550-260.
158. THE FOLLOWING FORMULA WAS USED FOR CALCULATING AREA REQUIREMENTS FOR THE CABINET:  
 $A = [ D + ( M + W ) / 2 ] \times L$   
 WHERE:  
 D = CABINET DEPTH 1.968 FT. (600MM)  
 M = MINIMUM MAINTENANCE AISLE WIDTH (SEE AS 63 "AISLE SPACING AND NUMBERING")  
 W = MINIMUM WIRING AISLE WIDTH (SEE AS 63 "AISLE SPACING AND NUMBERING")  
 L = CABINET LENGTH 2.5 FT. (760MM)
159. THE FOLLOWING METHOD WAS USED TO CALCULATE AREA REQUIREMENTS FOR THE WORK STATION CONSOLE:
- 
- $A = ( W + 4 \text{ FT.} ) \times L$
160. WHEN CALCULATING TOTAL OFFICE FLOOR SPACE REQUIREMENTS ADJUSTMENTS TO THE SUM OF ALL CABINETS AND THE AWS AND MCC CONSOLE MUST BE MADE FOR NON-STANDARD AISLE WIDTHS, POST CLEARANCES, AND OTHER MINIMUM DIMENSIONS SHOWN IN AS 74 "AISLE SPACING AND NUMBERING".

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EQUIPMENT NOTES:

203. PROTECTED AC MUST BE PROVIDED BY AN INVERTER WITH A MINIMUM RATING OF 2KVA.
204. POWER INFORMATION FOR PROTECTED AC EQUIPMENT (FOR REFERENCE ONLY)

| INFORMATION                                 | EQUIPMENT                                  | NOTES        | WATTS |
|---|--|--------------|-------|
| PRELIMINARY DATA SHEETS<br>SUN MICROSYSTEMS | DAT TAPE UNIT                              |              | 60    |
| KS-23996 SPECIFICATION                      | KS-23996 L1 MONITOR AND KEYBOARD (110 VAC) |              | 144   |
| KS-23996 SPECIFICATION                      | KS-23996 L5 MONITOR AND KEYBOARD (VAC)     |              | 144   |
| LUCENT TECHNOLOGIES USER GUIDE              | 577 PRINTER                                |              | 140   |
| COMSPHERE 3800 SERIES MODEMS, USERS GUIDE   | 3810 MODEM                                 | SINGLE MODEM | 5.25  |
| COMSPHERE 3800 SERIES MODEMS, USERS GUIDE   | 3820 MODEM                                 | SINGLE MODEM | 5.25  |
| UL LABEL ON PRINTER                         | 6417 PRINTER                               |              | 105   |
| SPARC STATION 5 PRODUCT BOOK                | SPARC STATION 5                            |              | 230   |

EQUIPMENT NOTES: (CONT)

205. ALARMS FOR THE AWS - SM2000 ARE PROVIDED BY THE MMSU. THE FOLLOWING SCAN AND SD POINTS ARE REQUIRED AND MUST BE DUPLICATED BETWEEN TWO MMSU SERVICE GROUPS WITH IDENTICAL HEX SD PORT NUMBERS ASSIGNED. ACTUAL ASSIGNMENT OF THESE POINTS IS LEFT TO THE LINE ENGINEER AND SHOULD BE CONSIDERED WITH OTHER SD POINTS ASSIGNMENTS IN DETERMINING SD PACK REQUIREMENTS. THE LOCATION OF THE SCAN AND SD PACKS IS JOB ENGINEERED.

SCAN POINT REQUIREMENTS

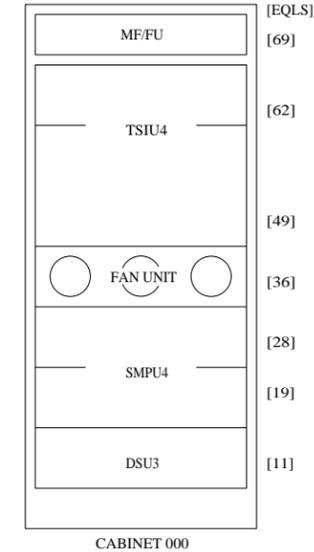
| DESCRIPTION            | LEAD DESIGNATION | DESTINATION                      |
|------------------------|------------------|----------------------------------|
| ALARM ACTIVE           | ( )ALMACT( )     | ALARM STATUS UNIT VIA MDF        |
| ALARM POWER            | ""ALMPWR""       | ALARM STATUS UNIT VIA MDF        |
| ALARM RETIRE           | ""ALMRET""       | ALARM STATUS UNIT VIA MDF        |
| ALARM TEST             | ""ALMTST""       | ALARM STATUS UNIT VIA MDF        |
| MANUAL MODE CONTROL    | ( )MODE( )       | ALARM STATUS UNIT VIA MDF        |
| FIRE                   |                  | DISTRIBUTING FRAME (MDF)         |
| FIRE ALARM TROUBLE     |                  | DISTRIBUTING FRAME (MDF)         |
| DISCHARGE FUSE FAIL    |                  | DISTRIBUTING FRAME (MDF)         |
| INVERTER FAIL          |                  | DISTRIBUTING FRAME (MDF)         |
| RECT FAIL              |                  | DISTRIBUTING FRAME (MDF)         |
| ALM BAT SUPPLY FAILURE |                  | DISTRIBUTING FRAME (MDF)         |
| CO BAT DSCHG           |                  | DISTRIBUTING FRAME (MDF)         |
| HIGH VOLTAGE           |                  | DISTRIBUTING FRAME (MDF)         |
| COM PWR FAIL           |                  | DISTRIBUTING FRAME (MDF)         |
| STBY PLNT LOW FUEL     |                  | DISTRIBUTING FRAME (MDF)         |
| STBY PLNT OPER         |                  | DISTRIBUTING FRAME (MDF)         |
| STBY PLNT RECT FAIL    |                  | DISTRIBUTING FRAME (MDF)         |
| STBY PLNT FAIL         |                  | DISTRIBUTING FRAME (MDF)         |
| FUSE FAIL              |                  | POWER DISTRIBUTION PANEL VIA MDF |

SD POINT REQUIREMENTS

| DESCRIPTION            | LEAD DESIGNATION | DESTINATION               |
|------------------------|------------------|---------------------------|
| BUILDING POWER         | ( )BLDPWR( )     | ALARM STATUS UNIT VIA MDF |
| TEST IN PROGRESS       | ""TSTPRG""       | ALARM STATUS UNIT VIA MDF |
| TIME INHIBIT           | ""TIMINH""       | ALARM STATUS UNIT VIA MDF |
| SANITY ALARM           | ""SA""           | ALARM STATUS UNIT VIA MDF |
| SANITY TIMER           | ""SANTIM""       | ALARM STATUS UNIT VIA MDF |
| SYSTEM TROUBLE         | ""SMTBL""        | ALARM STATUS UNIT VIA MDF |
| CRITICAL ALARM LAMP    | ""CRLMP""        | ALARM STATUS UNIT VIA MDF |
| OTHER SM TIMER INHIBIT | ""OTHINS""       | ALARM STATUS UNIT VIA MDF |
| MANUAL MODE CONTROL    | ""MAN""          | ALARM STATUS UNIT VIA MDF |
| MINOR AUDIBLE ALARM    | ""MNAUD""        | ALARM STATUS UNIT VIA MDF |
| MAJOR ALARM LAMP       | ""MJLMP""        | ALARM STATUS UNIT VIA MDF |
| CRITICAL AUDIBLE ALARM | ""CRAUD""        | ALARM STATUS UNIT VIA MDF |
| MINOR ALARM LAMP       | ""MNLMP""        | ALARM STATUS UNIT VIA MDF |
| MAJOR AUDIBLE ALARM    | ( )MJAUD( )      | ALARM STATUS UNIT VIA MDF |

EQUIPMENT NOTES: (CONT)

206. FOR GENERAL ASSIGNMENT RULE INFORMATION ON THE EQUIPMENT ASSOCIATED WITH THE SMC AND LTP, REFERENCE THE SD5D007-01 (SESS ASSIGNMENT RULES).
207. REFERENCE ED-5D693-10 FOR FUSE LABELING INFORMATION ON THE MFU.
208. THE SPARCSTATION 5 COME WITH 64 MBYTE RAM AND NO INTERNAL DISK.
209. SM2000 SMC CONFIGURATION:



210. SM2000 LTP CABINET FAN UNIT EQUIPAGE.

| J-CODE      | DESCRIPTION             | CAB. MTG. EQL | REMARKS  |
|-------------|-------------------------|---------------|--|
| J5D003BE(-) | 3 FAN UNIT              | EQL 11        |  |
| J5D003BN(-) | 6 FAN UNIT              | EQL 11        |  |
| J5D003BW(-) | 6 FAN EXHAUST UNIT      | EQL 62        | USED IN CONJUNCTION WITH "BN-(-)" FAN UNIT FOR PSU |
| J5D003FH(-) | BI-DIRECTIONAL FAN UNIT | EQL 36        |  |

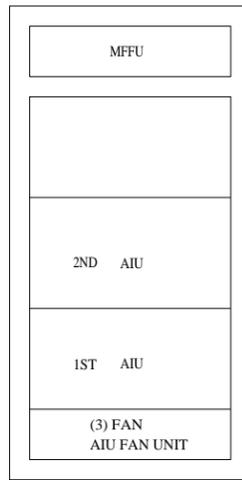
211. PICB/PIDB CABLING:  
ALL CROSS-AISLE PICB/PIDB CABLES MUST CROSS DIRECTLY FROM THE SMC TO THE ASSOCIATED LTP 100 AND/OR 200 FOR DISTRIBUTION. THIS WILL ALLOW PICB/PIDB CABLES TO BE EMC COMPLIANT.
212. WHEN THE BELTLINE OPTION IS REQUIRED THE OPTIONAL TEL & TTY JACK PANEL IS REQUIRED IN EVERY THIRD 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).

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EQUIPMENT NOTES: (CONT.)

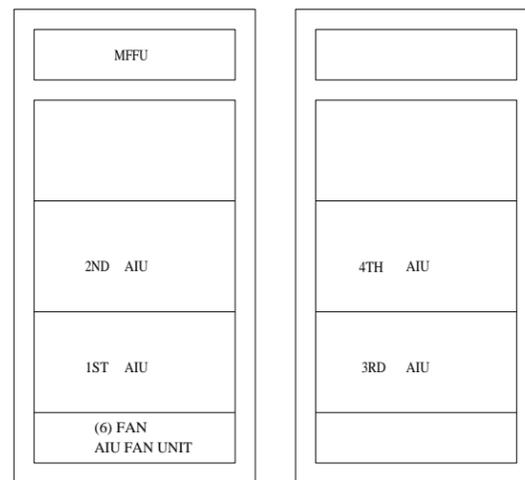
213. THE AIU CAN BE EQUIPPED IN FOUR CONFIGURATIONS ONLY.

2 AIU CONFIGURATION



EQUIPMENT SIDE (FRONT)  
VIEW

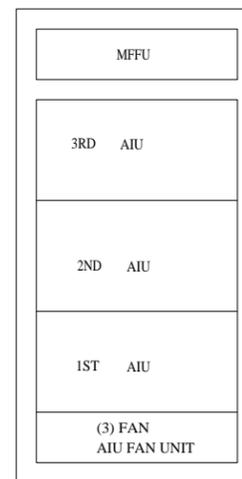
4 AIU CONFIGURATION



EQUIPMENT SIDE (FRONT)  
VIEW

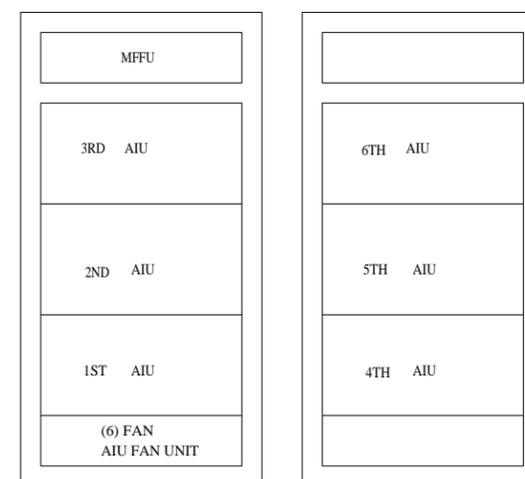
WIRING SIDE (REAR)  
VIEW

3 AIU CONFIGURATION



EQUIPMENT SIDE (FRONT)  
VIEW

6 AIU CONFIGURATION



EQUIPMENT SIDE (FRONT)  
VIEW

WIRING SIDE (REAR)  
VIEW

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AWS-SM2000  
APPLICATION SCHEMATIC

DWG SIZE  
C2

ISSUE  
4M

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SHEET  
D2A

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. THE SWITCHING MODULE IS MADE UP OF THE  
SWITCHING MODULE CABINET (SMC) AND LINE  
TRUNK PERIPHERAL CABINETS (LTP).

| FEATURE OR OPTION   | PROVIDE |                     |
|---|---------|---------------------|
|   | APP FIG | APP OR WRG QUANTITY |
| MODULAR FUSE/FILTER UNIT  | 1       | AS REQUIRED         |
| 6 FAN BI-DIRECTIONAL FAN UNIT   | 2A      | AS REQUIRED         |
| 3 FAN UNIT  | 2B      | AS REQUIRED         |
| 6 FAN UNIT  | 2C      | AS REQUIRED         |
| 6 FAN EXHAUST UNIT  | 2D      | AS REQUIRED         |
| SWITCHING MODULE PROCESSOR UNIT MODEL 4 (SMPU4)<br>AND TIME SLOT INTERCHANGE UNIT MODEL 4 (TSIU4) | 3       | 1 PER OFFICE        |
| ANALOG TRUNK UNIT - EXPORT (ATUE)   | 4       | AS REQUIRED         |
| DIGITAL CARRIER LINE UNIT (DCLU)  | 5       | AS REQUIRED         |
| DIGITAL LINE TRUNK UNIT MODEL 3 (DLTU3)   | 6       | AS REQUIRED         |
| DIRECTLY CONNECTED TEST UNIT (DCTU)   | 7       | AS REQUIRED         |
| DIGITAL SERVICE UNIT - MODEL 2 (DSU2)   | 8       | AS REQUIRED         |
| DIGITAL SERVICE UNIT - MODEL 3 (DSU3)   | 9       | 1 PER OFFICE        |
| ECHO CANCELER SIGNALING UNIT (ECSU)   | 10      | AS REQUIRED         |
| GLOBAL DIGITAL SERVICE UNIT - EXPORT (GDSUE)  | 11      | 1 PER OFFICE        |
| INTEGRATED DIGITAL CARRIER UNIT (IDCU)  | 12      | AS REQUIRED         |
| INTEGRATED SERVICES LINE UNIT - MODEL 2 (ISLU2)   | 13      | AS REQUIRED         |
| LINE UNIT - MODEL 3 (LU3)   | 14      | AS REQUIRED         |
| MODULAR METALLIC SERVICE UNIT (MMSU)  | 15      | 1 PER OFFICE        |
| PERIODIC PULSE METERING UNIT (PPMU)   | 16      | AS REQUIRED         |
| PACKET SWITCH UNIT (PSU)  | 17      | AS REQUIRED         |
| ADMINISTRATIVE WORKSTATION (AWS)  | 50      | 1 PER OFFICE        |
| ALARM STATUS UNIT (ASU)   | 51      | 1 PER OFFICE        |
| ACCESS INTERFACE UNIT (AIU)   | 18      | AS REQUIRED         |
| EXTENDED CONTROL AND DATA UNIT (XCDU)   | 19      | AS REQUIRED         |

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