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2M	1 APPX 1M	5-10-93		
3M	1 APPX 2M	7-21-94		
4M	1 APPX 3M	11-8-94		
5M	1 APPX 4M	05-01-96		
6M	1 APPX 5M	8-22-96		

SUPPORTING INFORMATION

SYSTEM USED ON	DESIGN CONTROL	CATEGORY	NO.	CATEGORY	NO.
5ESS®	IH	15A ANN. SYS. 5ESS ASSIGNMENT RULES ASC ASU BI-DIR. FAN UNIT CSU DLTUE DLTU2 DLTU3 DSU2 GDSU E GDSU ISLU ISLU2 LU3 MC MCTU2 MFFU MMSU	SD-97815-01 SD-5D007-01 SD-5D017-01 SD-5D148-01 SD-5D168-02 SD-5D530-01 SD-5X204-01 SD-5D205-01 SD-5D501-01 SD-5D092-01 SD-5X201-01 SD-5D035-01 SD-5D091-01 SD-5D192-01 SD-5D180-01 SD-5D130-01 SD-5D151-01 SD-5D190-01 SD-5D015-01	MMSU-E1 POWER DIST. PANEL PPMU PSU THREE FAN UNIT TU SIX FAN UNIT SMC2	SD-5D522-01 ED83024-30 SD-5X202-01 SD-5D074-01 SD-5D019-02 SD-5D300-01 SD-5D081-01 SD-5D160-01

SHEET INDEX NOTES

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

BT13

5ESS® SWITCHING EQUIPMENT APPLICATION SCHEMATIC FOR THE 5ESS-2000 SWITCH (ADMINISTRATIVE WORKSTATION AND VERY COMPACT DIGITAL EXCHANGE)

DWG SIZE	ISSUE
C2	6M

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ASU	AS 51	ALARM STATUS UNIT
AWS	AS 1	ADMINISTRATIVE WORKSTATION
CH	AS 2	CHANNEL
CLK	AS 4	CLOCK
CSU	AS 18	COMBINED SERVICES UNIT
DC	AS 1	DIRECT CURRENT
DFI	AS 4	DIGITAL FACILITY INTERFACE
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DLTU3	AS 13	DIGITAL LINE TRUNK UNIT MODEL 3
DLTUE	AS 12	DIGITAL LINE TRUNK UNIT EXPORT
DPIDB	AS 10	DIRECTLY CONNECTED PERIPHERAL INTERFACE DATA BUS
DSC	AS 2	DIGITAL SERVICE CIRCUIT
DSL	AS 10	DIGITAL SUBSCRIBER LINE
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DSX	AS 1	DIGITAL SIGNAL CROSS-CONNECT
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ESM	AS 38	EXTERNAL SANITY MONITOR
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GRD	AS 2	GROUND
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ISTF	AS 5	INTEGRATED SERVICES TEST FUNCTIONS
ISLU	AS 17	INTEGRATED SERVECES LINE UNIT
LCR	AS 8	LINE CONCENTRATION RATIO
LDSU	AS 5	LOCAL DIGITAL SERVICE UNIT
LIDB	AS 7	LINE INTERFACE DATA BUS
LTP	AS 3	LINE TRUNK PERIPHERAL CABINET
LU3	AS 8	LINE UNIT MODEL 3
MCC	AS 63	MASTER CONTROL CENTER
MDF	AS 1	MAIN DISTRIBUTION FRAME
MCTU2	AS 2	MODULE CONTROLLER/TIME SLOT INTERCHANGE UNIT, MODEL 2
MFFU	AS 1	MODULAR FUSE/FILTER UNIT
MMSU	AS 15	MODULAR METALLIC SERVICE UNIT
MMSU-E1	AS 9	MODULAR METALLIC SERVICE UNIT - EXPORT MODEL 1
MTB	AS 9	METALLIC TEST BUS
PB	AS 10	PACKET BUS
PICB	AS 2	PERIPHERAL INTERFACE CONTROL BUS
PIDB	AS 2	PERIPHERAL INTERFACE DATA BUS
PSU	AS 10	PACKET SWITCH UNIT
PPMU	AS 11	PERIODIC PULSE METERING UNIT
SC	AS 9	SCAN
SD	AS 9	SIGNAL DISTRIBUTOR
SCSD	AS 1	SCAN AND SIGNAL DISTRIBUTOR
SM	AS 1	SWITCHING MODULE
SMC2	AS 2	SWITCHING MODULE CONTROL CABINET MODEL 2
R	AS 4	RING
RAF	AS 5	RECORDED ANNOUNCEMENT FACILITY
T	AS 4	TIP
TTF2	AS 5	TRANSMISSION TEST FUNCTIONS 2
TU	AS 16	TRUNK UNIT
VCDX	AS 1	VERY COMPACT DIGITAL EXCHANGE

MNEMONICS	AS NO.	DEFINITION

AWS/VCDX

DWG SIZE: C2

ISSUE: 6M

Lucent Technologies, Inc.

SD-5D519-01

SHEET: A2

AS 1

5ESS-2000 SWITCH

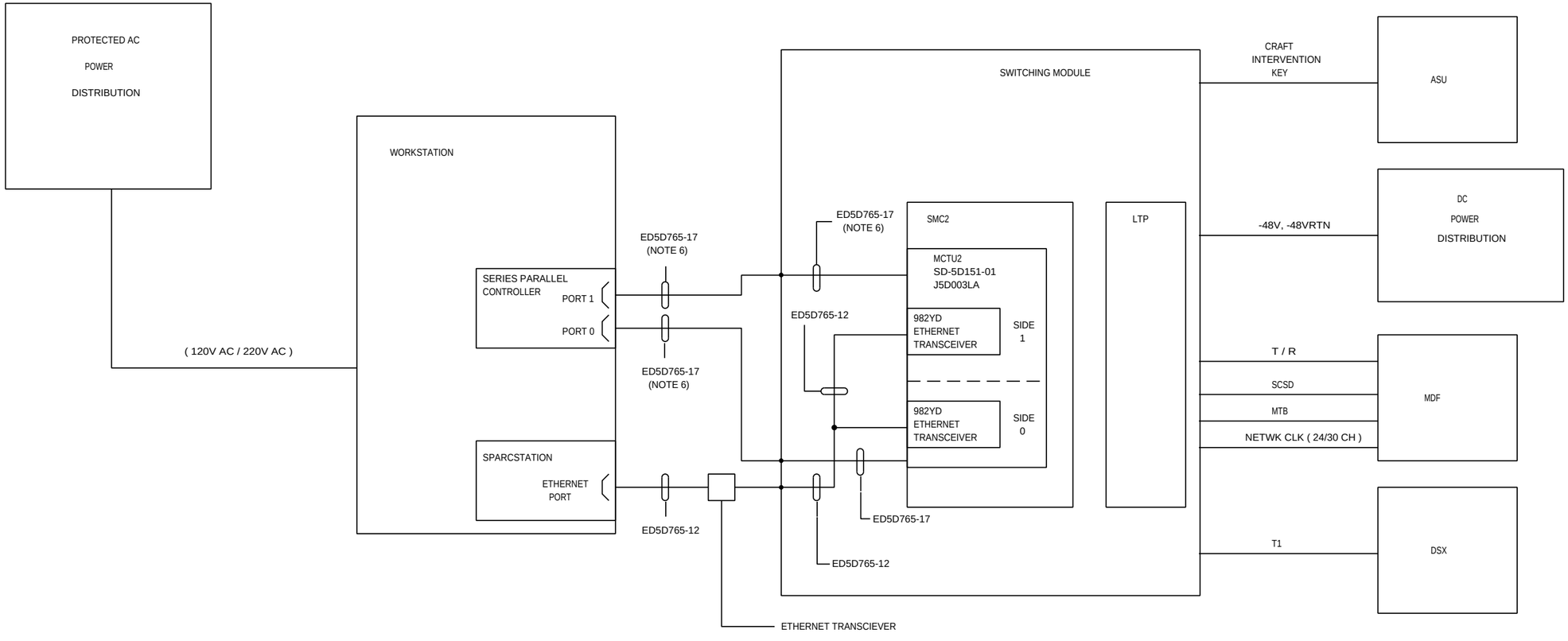
(ADMINISTRATIVE WORKSTATION AND VERY COMPACT DIGITAL EXCHANGE)

(INTERFACE TO THE SWITCHING

MODULE CABINET, MODEL 2)

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:
   ED-5D500-20 (INTRACABINET CABLING)
   ED-5D500-21 (INTRACABINET 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. USED IN AWS APPLICATIONS ONLY.



AWS/VCDX		DWG SIZE C2	ISSUE 6M
Lucent Technologies, Inc.	SD-5D519-01	SHEET B1	

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AS 1A

5ESS-2000 SWITCH

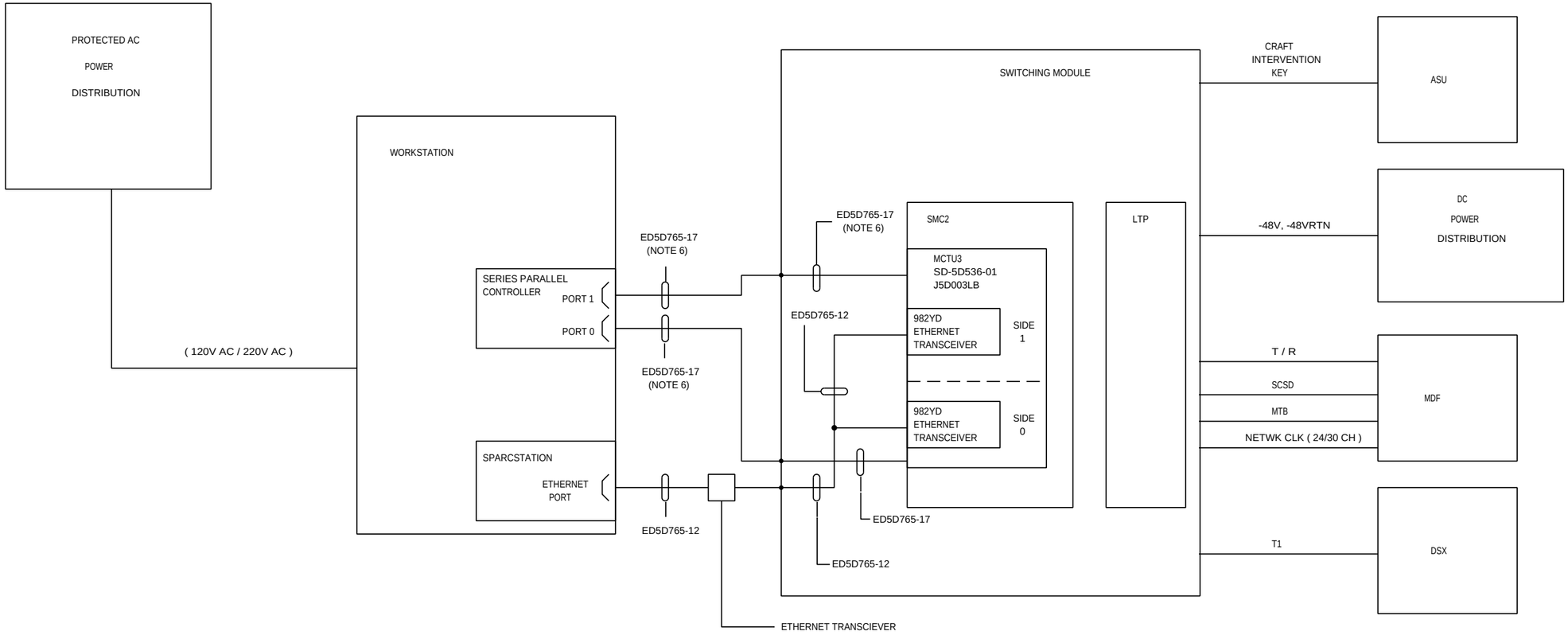
(ADMINISTRATIVE WORKSTATION AND VERY COMPACT DIGITAL EXCHANGE)

(INTERFACE TO THE SWITCHING

MODULE CABINET, MODEL 2)

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:
   ED-5D500-20 (INTRACABINET CABLING)
   ED-5D500-21 (INTRACABINET 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. USED IN AWS APPLICATIONS ONLY.



AWS/VCDX		DWG SIZE C2	ISSUE 6M
Lucent Technologies, Inc.	SD-5D519-01	SHEET B1A	

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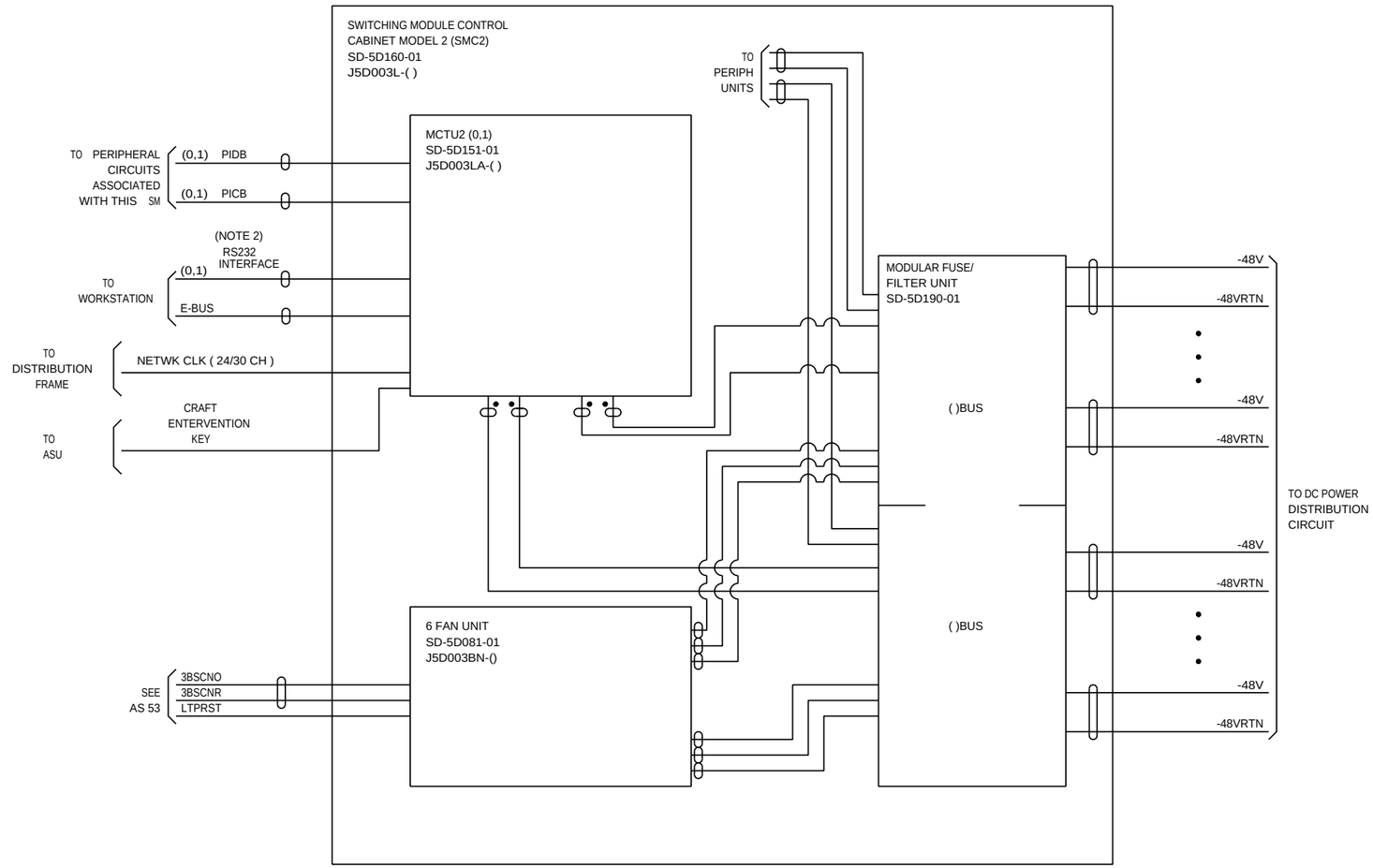
AS 2

SWITCHING MODULE CONTROL CABINET
WITH MCTU2 AND 6 FAN UNIT
MCTU2 (J5D003LA-( ))
6 FAN (J5D003BN-( ))
MODULAR FUSE/FILTER UNIT (J5D003FJ-( ))

NOTES:

1. THE LDSU FUNCTION IS PROVIDED BY DSC PACKS EQUIPPED IN MCTU2.
2. RS232 INTERFACE FOR INTERNATIONAL USE ONLY.



AWS/VCDX	DWG SIZE C2	ISSUE 6M
Lucent Technologies, Inc.	SD-5D519-01	SHEET B2

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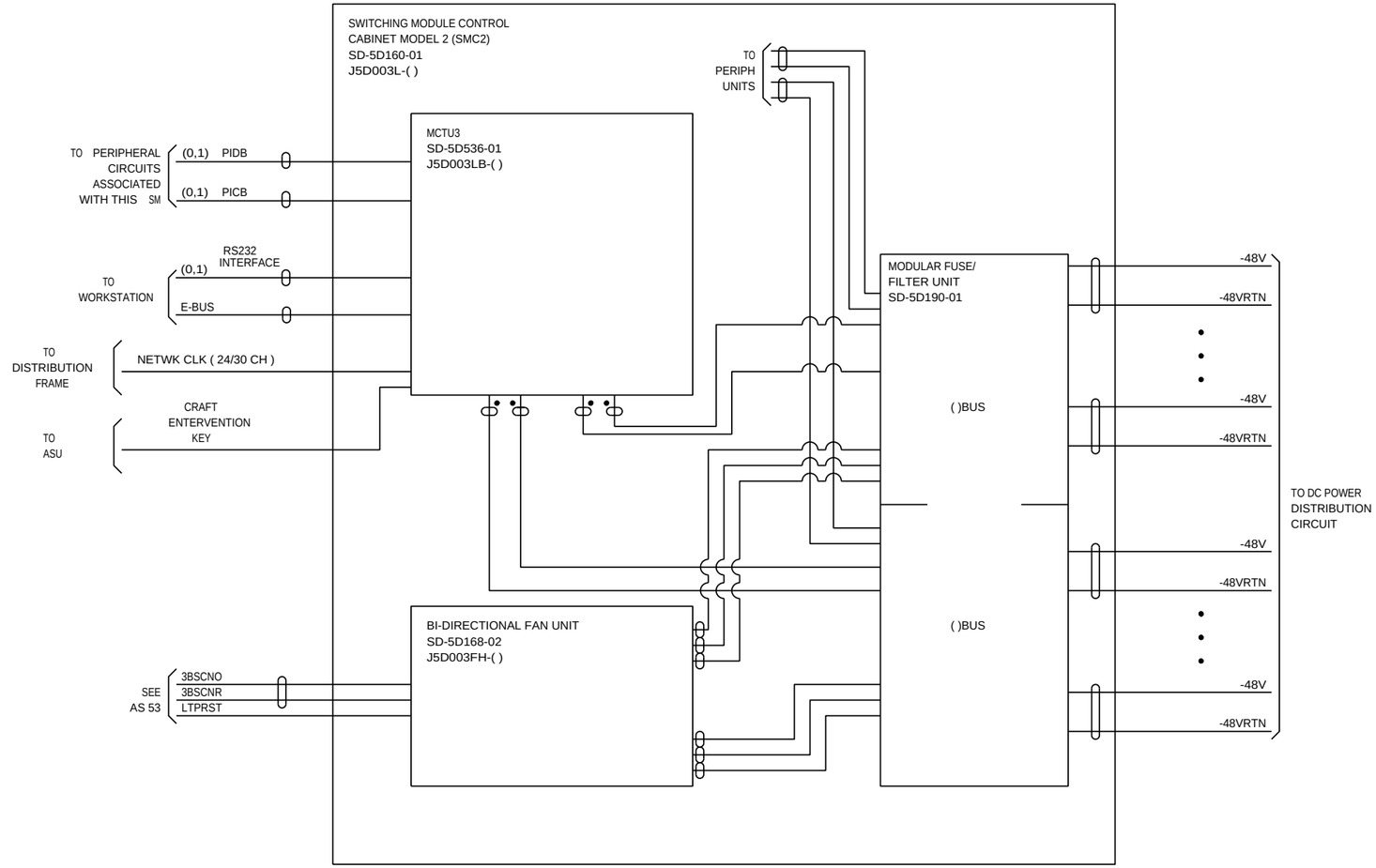
AS 2A

SWITCHING MODULE CONTROL CABINET
EQUIPPED WITH MCTU3,
BI-DIRECTIONAL FAN UNIT, AND
MFFU

NOTES:

1. THE LDSU FUNCTION IS PROVIDED BY DSC PACKS EQUIPPED IN MCTU3.



AWS/VCDX		DWG SIZE C2	ISSUE 6M
Lucent Technologies, Inc.	SD-5D519-01		SHEET B2A

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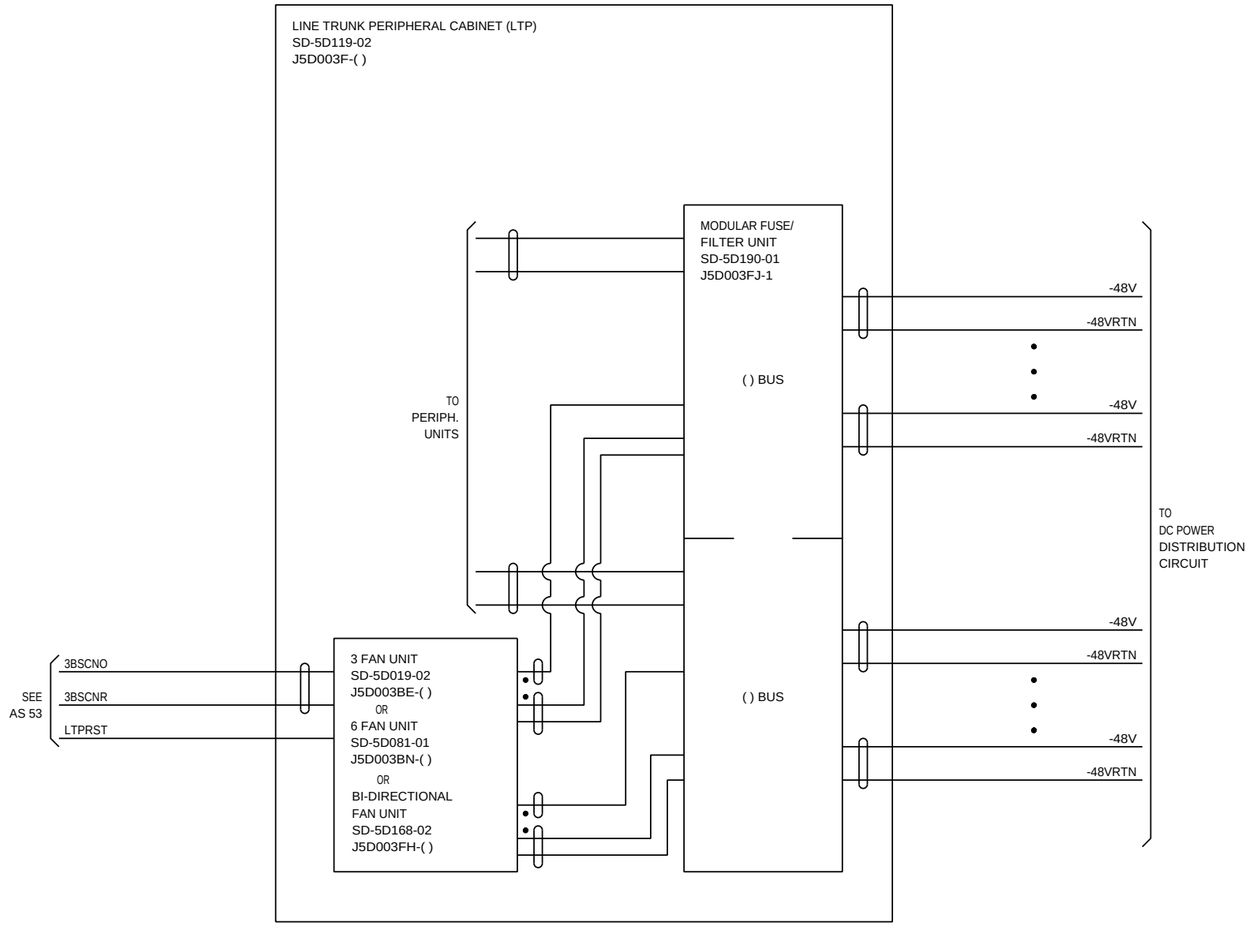
AS 3

LINE TRUNK PERIPHERAL CABINET
WITH (3 FAN / 6 FAN / BI-DIRECTIONAL) UNIT
3 FAN (J5D003BE-( ))
6 FAN (J5D003BN-( ))
BI-DIRECTIONAL (J5D003FH-( ))
MODULAR FUSE/FILTER UNIT (J5D003FJ-( ))

NOTES:

1. THE LTP POWER REQUIREMENT, CAN BE MET BY SELECTING MFFU LIST (102, 104, 109, 110, OR 111). THE REQUIRED LIST NUMBER IS BASED UPON THE EQUIPAGE OF THE LTP.



AWS/VCDX		DWG SIZE C2	ISSUE 6M
Lucent Technologies, Inc.	SD-5D519-01		SHEET B3

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AS 4

DIGITAL LINE TRUNK UNIT MODEL 2

(DLTU2)

DESCRIPTION

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

CAPACITY

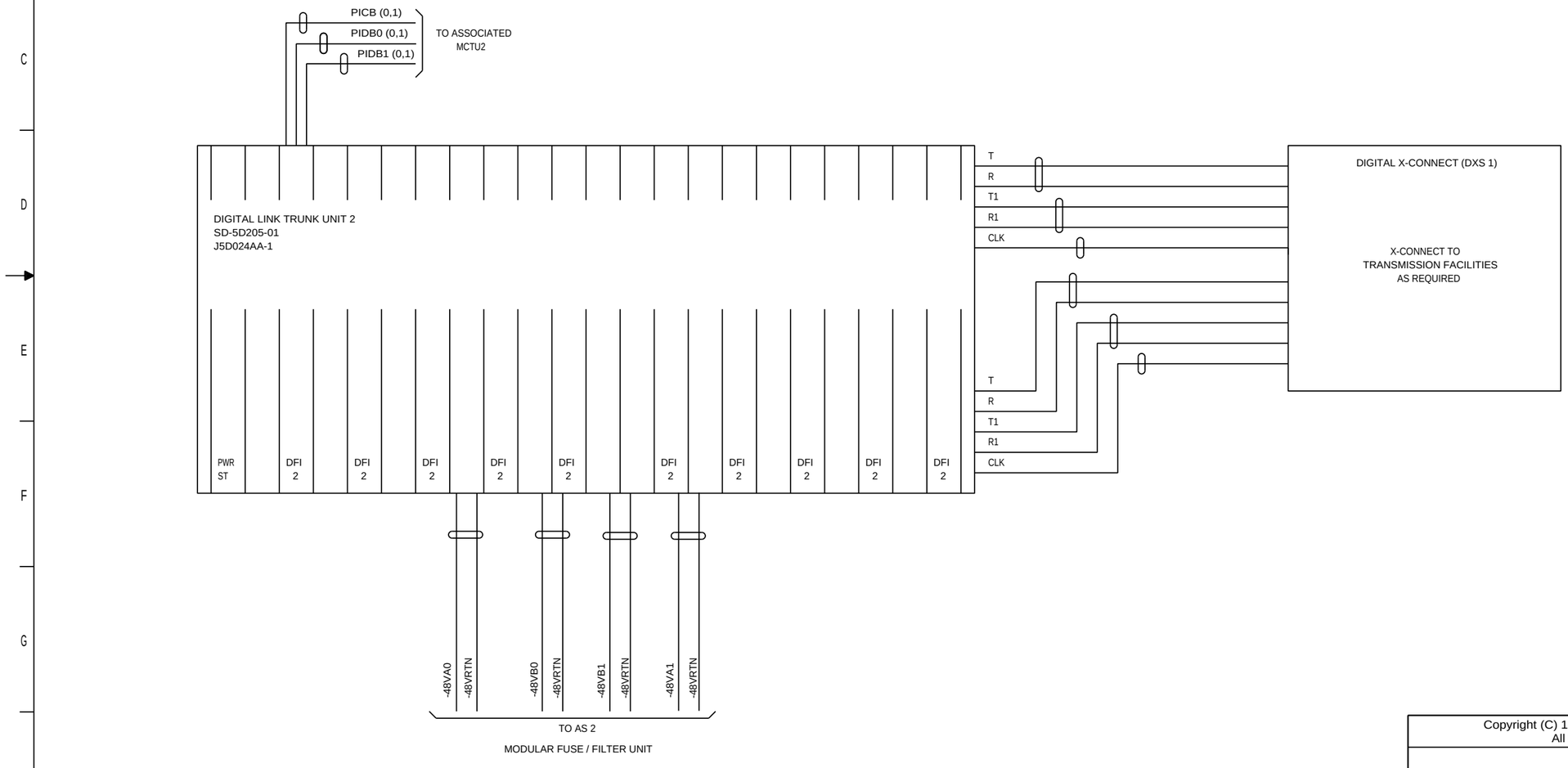
EACH DLTU2 WILL ACCOMMODATE UP TO 20 T1 FACILITIES (480 TRUNKS). (SEE SD-5D007-01)

FUSING REQUIREMENTS

SEE SD-5D205-01
ED5D693-10

SPECIFIC MOUNTING REQUIREMENTS

SEE EQUIPMENT NOTE 201.
MOUNTS IN THE SWITCHING MODULE.



AWS/VCDX		DWG SIZE C2	ISSUE 6M
Lucent Technologies, Inc.	SD-5D519-01	SHEET B4	

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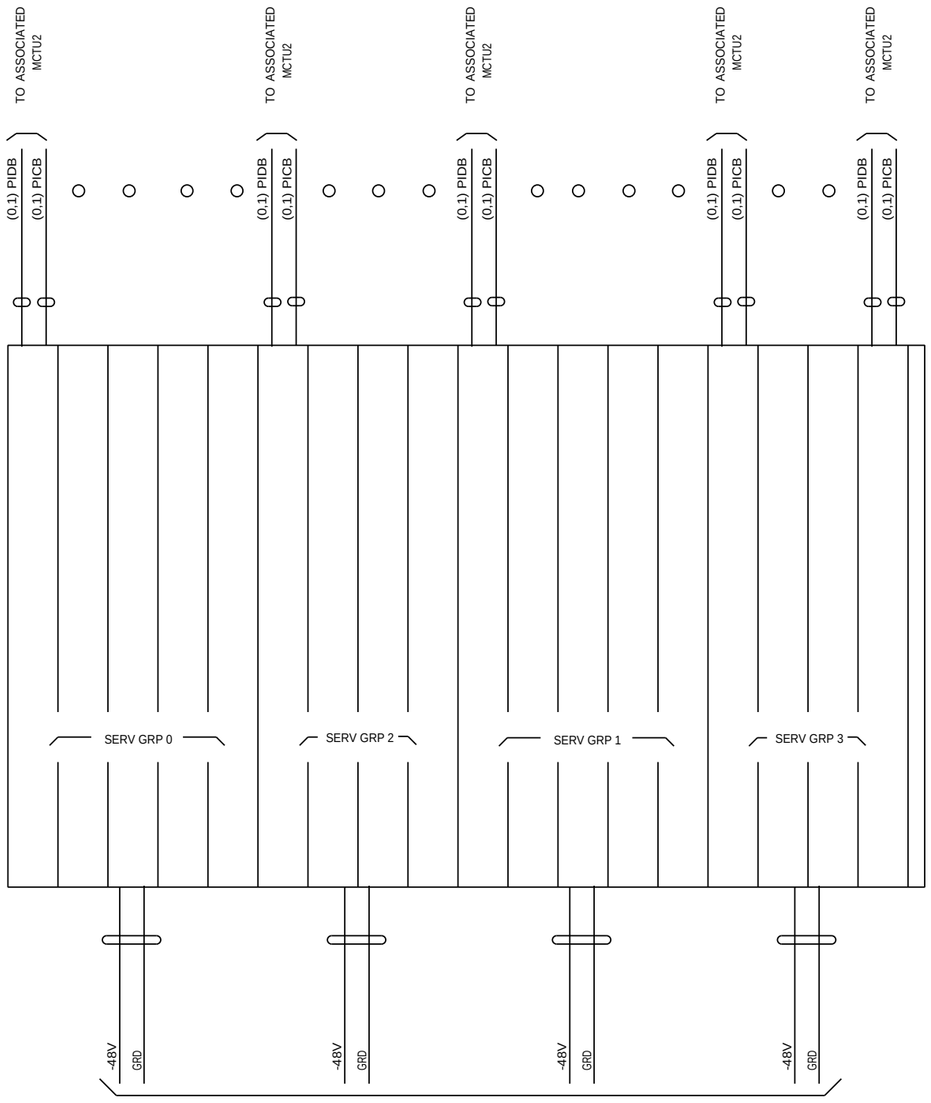
AS 5

DIGITAL SERVICE UNIT MODEL 2

(DSU2)



DESCRIPTION:

DSU2 IS AN 8 1/2" HIGH SHELF WHICH PROVIDES OPTIONAL FEATURES LIKE INTEGRATED SEVICES TEST FUNCTIONS (ISTF), RECORDED ANNOUNCEMENT (RAF) AND TRANSMISSION TEST FUNCTIONS (TTF2).

CAPACITY:

EACH DSU2 HAS (4) SERVICE GROUPS WHICH CAN BE EQUIPPED WITH ISTF, RAF AND/OR TTF2.

FUSING REQUIREMENTS:

SEE SD-5D092-01.
ED5D693-10

SPECIFIC MOUNTING REQUIREMENTS:

1. MOUNTS IN THE SWITCHING MODULE.
   SEE EQUIPMENT NOTES 201 AND 202.

AWS/VCDX	DWG SIZE C2	ISSUE 6M
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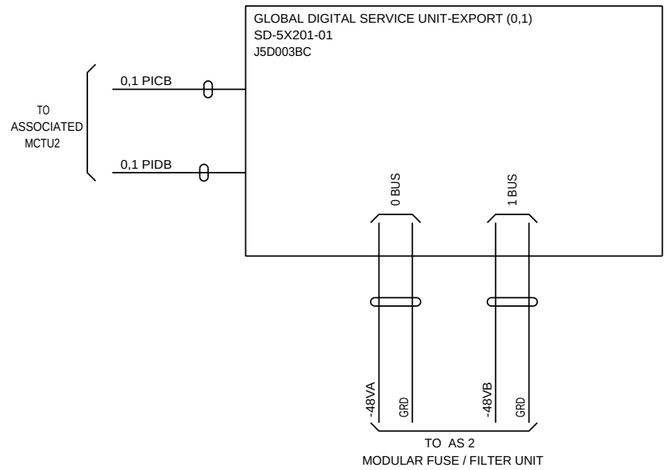
AS 6

GLOBAL DIGITAL SERVICE UNIT - EXPORT
(GDSU-E)



DESCRIPTION

EACH GLOBAL DSU - EXPORT IS AN 8 1/2" 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
ED5D693-10

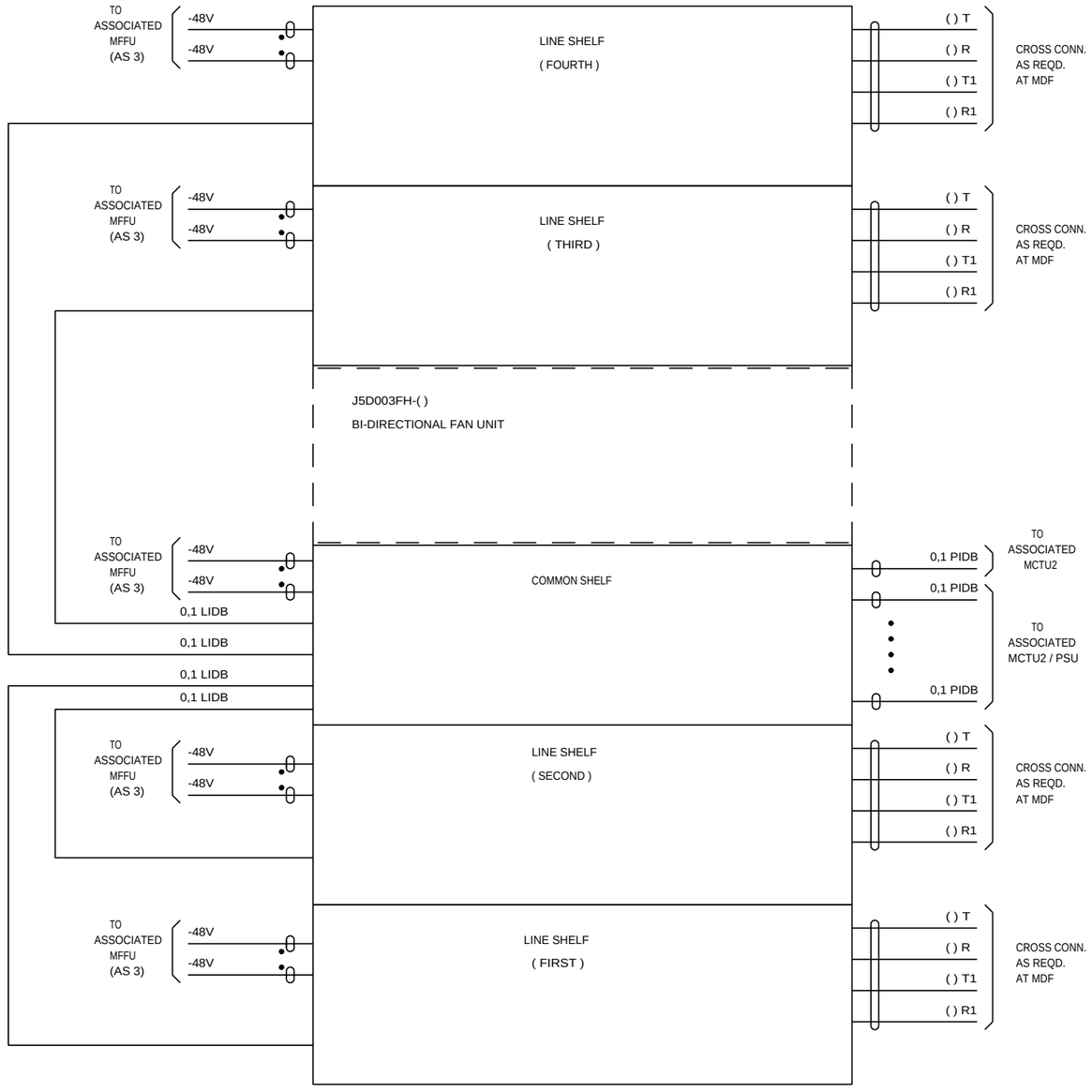
SPECIFIC MOUNTING REQUIREMENTS

SEE EQUIPMENT NOTE 201.
MOUNTS IN THE SWITCHING MODULE.
USED IN AWS APPLICATIONS ONLY.

AWS/VCDX		DWG SIZE C2	ISSUE 6M
Lucent Technologies, Inc.	SD-5D519-01		SHEET B6

AS 7

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



DESCRIPTION:

ISLU2 IS A TWO TO FIVE SHELF UNIT, MADE UP OF UNITS WHICH MEASURE 8.50" X 24.50". A UNIT IS MADE UP OF A COMMON SHELF AND (1) 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".
SEE SD-5D192-01 FOR SPECIFIC REQUIREMENTS.

SPECIFIC MOUNTING REQUIREMENTS:

THE FIRST ISLU2 SHALL BE MOUNTED WITH ITS COMMON SHELF BELOW THE FAN UNIT.
MOUNTED IN THE SWITCHING MODULE.

NOTE

1. USED IN INTERNATIONAL AND AIR EXTENSION APPLICATIONS ONLY.

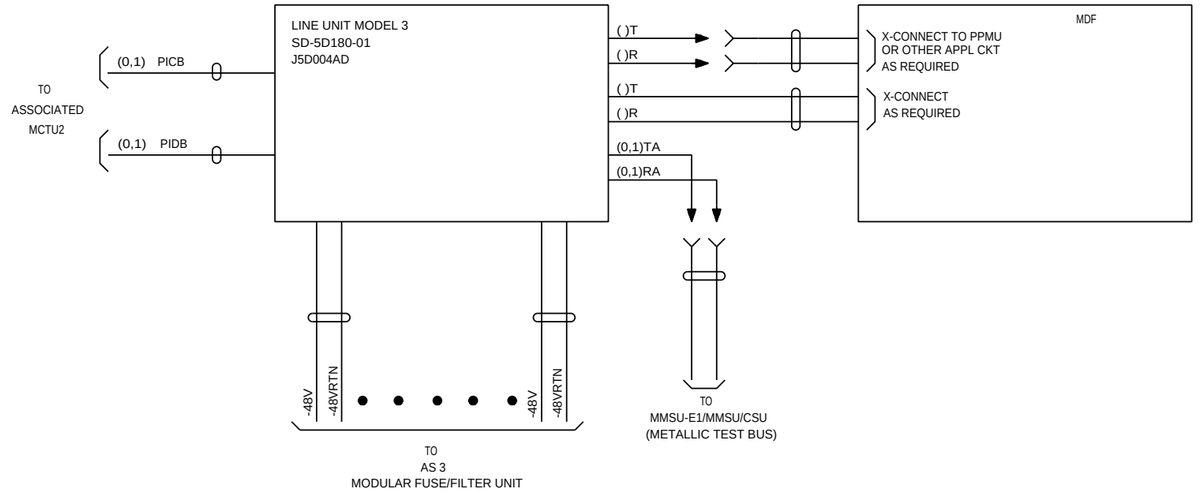
AWS/VCDX

DWG SIZE	ISSUE
C2	6M

Lucent Technologies, Inc. | SD-5D519-01 | SHEET B7

AS 8

LINE UNIT MODEL 3
(LU3)



NOTES:

1. LINE UNIT MODEL 3 REQUIRES THAT ALL 14 FUSES BE ON THE SAME POWER FEEDER OF THE FUSE/FILTER UNIT (IN A GIVEN SM THE EVEN NUMBER LU3S ARE CONNECTED TO POWER BUS "A" AND THE ODD NUMBER LU3S ARE CONNECTED TO POWER BUS "B").

DESCRIPTION

EACH LINE UNIT MODEL 3 CONSISTS OF TWO 8 1/2" HIGH SHELVES AND PROVIDES FOR THE 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 A 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.
ED5D693-10

SPECIFIC MOUNTING REQUIREMENTS

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

AWS/VCDX		DWG SIZE C2	ISSUE 6M
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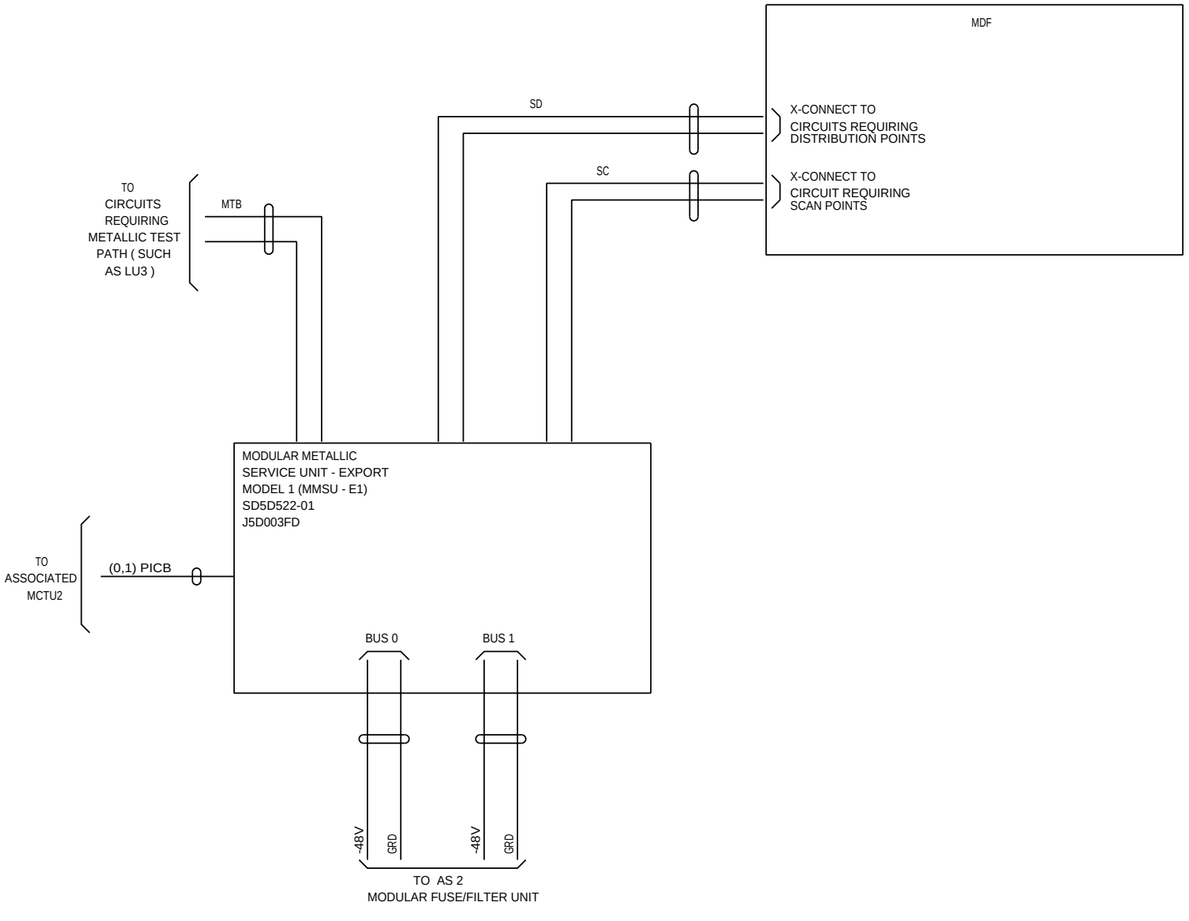
AS 9

MODULAR METALLIC SERVICE UNIT - EXPORT
MODEL 1 (MMSU - E1)



DESCRIPTION

THE MODULAR METALLIC SERVICE UNIT - EXPORT MODEL 1 (MMSU - E1) CONSISTS OF ONE 8 1/2" SHELF DIVIDED INTO TWO SERVICE GROUPS AND REQUIRING ONE DUPLICATED PICB. THIS UNIT IS ENGINEERED AND CAN BE EQUIPPED TO PROVIDE AUTOMATIC LINE INSULATION TESTING GDX COMPENSATION, SCAN & DISTRIBUTE, AND METALLIC ACCESS FUNCTIONS IN ANY COMBENATION.

CAPACITY

SEE SD-5D007-01

FUSING REQUIREMENT

SEE SD-5D522-01 FOR
ED5D693-10

SPECIFIC MOUNTING REQUIREMENTS

SEE EQUIPMENT NOTE 201.
MOUNTS IN THE SWITCHING MODULE.

NOTE

1. USED IN AWS APPLICATIONS ONLY.

AWS/VCDX		DWG SIZE C2	ISSUE 6M
Lucent Technologies, Inc.	SD-5D519-01		SHEET B9

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AS 10

PACKET SWITCH UNIT (PSU)

DESCRIPTION

THE PACKET SWITCH IS A 8 1/2" HIGH SHELF WHICH REQUIRES DUPLICATED PICB, PIDB AND PACKET BUS (PB). THE DPIDB'S ARE ENGINEERED AS REQUIRED

CAPACITY

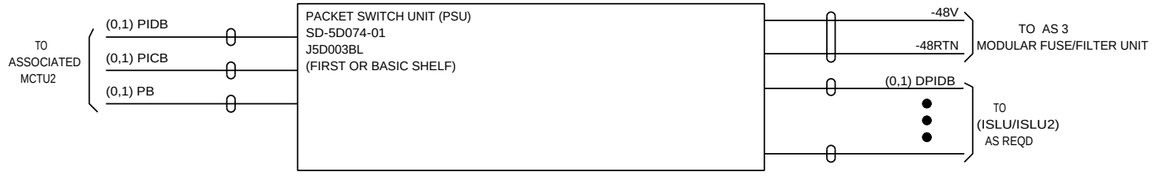
THE PSU CAN SERVE UP TO 240 DIGITAL SUBSCRIBER LINES (DSL'S) WHEN EQUIPPED WITH PH16 PROTOCOL HANDLER CIRCUIT PACKS AND N + 1 SPARING STRATEGY.

FUSING REQUIREMENTS

SEE SD-5D074-01 FOR FUSING REQUIREMENTS.
ED5D693-10

SPECIFIC MOUNTING REQUIREMENTS

ANY AVAILABLE POSITION IN ANY LTP CABINET. SEE EQUIPMENT NOTE 202.



AWS/VCDX		DWG SIZE C2	ISSUE 6M
Lucent Technologies, Inc.	SD-5D519-01		SHEET B10

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AS 11

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

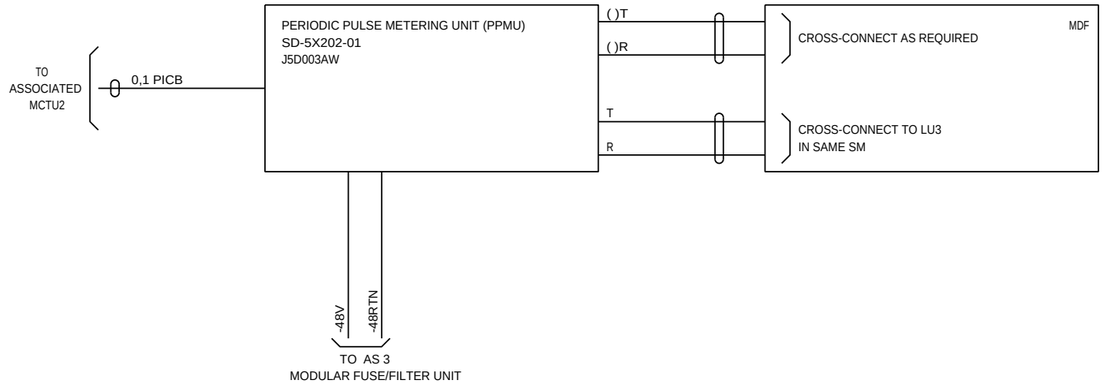
SEE SD-5X202-01 FOR PPMU FUSING REQUIREMENTS.
ED5D693-10

SPECIFIC MOUNTING REQUIREMENTS

ANY AVAILABLE POSITION IN AN LTP CABINET.

NOTE

1. USED IN AWS APPLICATIONS ONLY.



AWS/VCDX		DWG SIZE C2	ISSUE 6M
Lucent Technologies, Inc.	SD-5D519-01		SHEET B11

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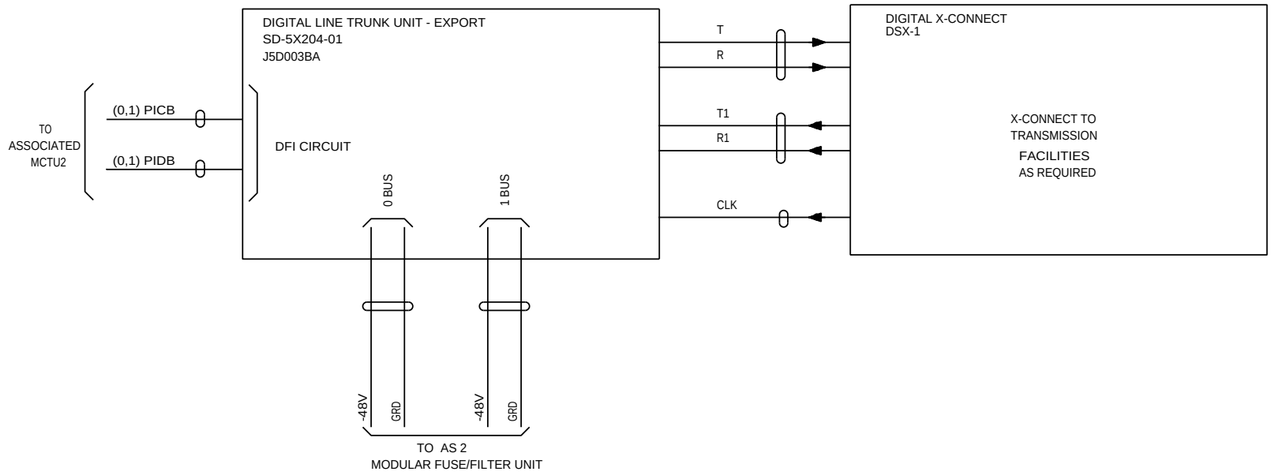
AS 12

DIGITAL LINE TRUNK UNIT - EXPORT

(DLTUE)



DESCRIPTION

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

CAPACITY

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

FUSING REQUIREMENT

SEE SD-5X204-01.
ED5D693-10

SPECIFIC MOUNTING REQUIREMENTS

SEE EQUIPMENT NOTE 201.

MOUNTS IN THE SWITCHING MODULE.

NOTE

1. USED IN AWS APPLICATIONS ONLY.

AWS/VCDX	DWG SIZE C2	ISSUE 6M
Lucent Technologies, Inc.	SD-5D519-01	SHEET B12

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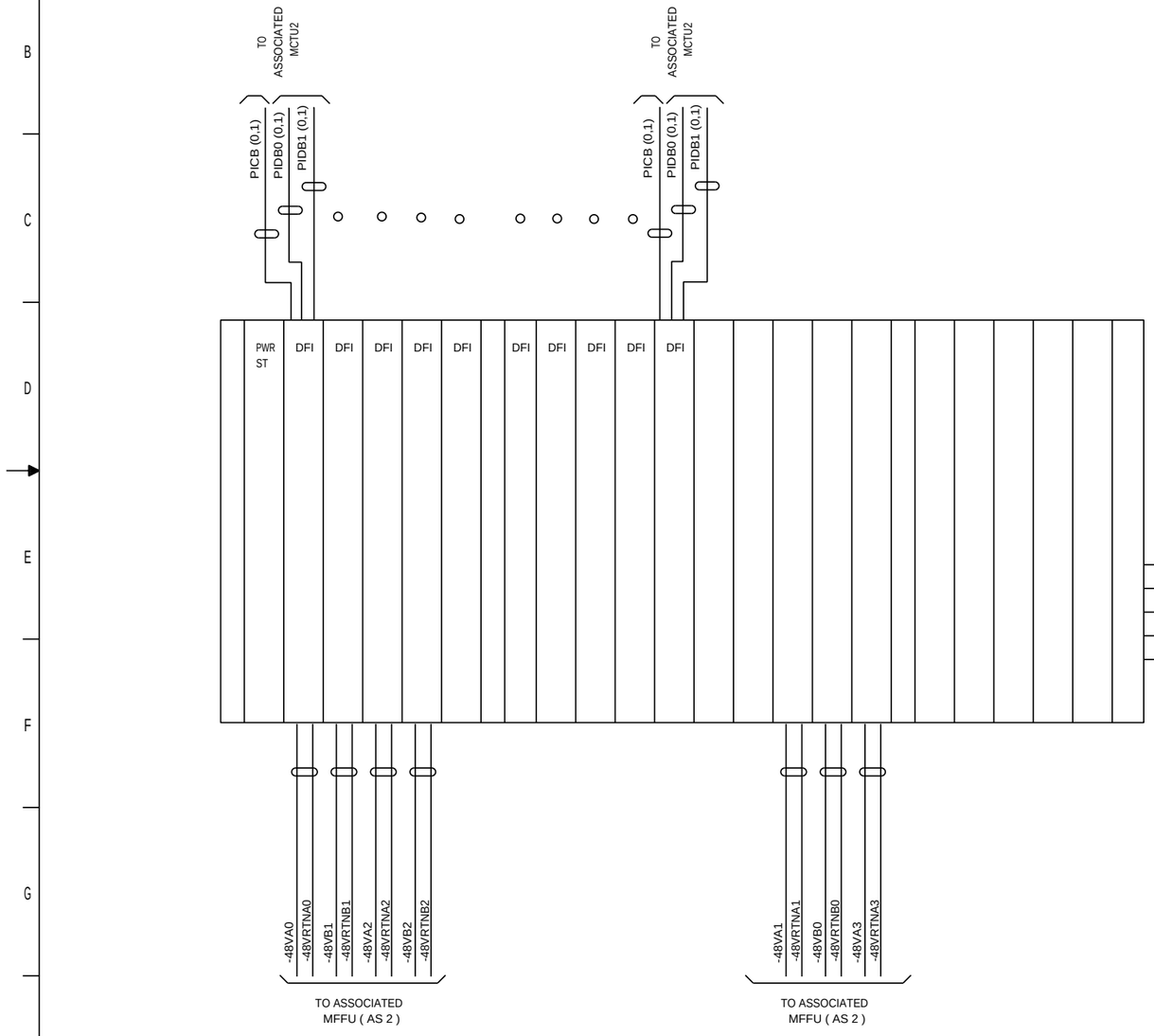
AS 13

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



DESCRIPTION

EACH DLTU3 IS AN 8 1/2" HIGH SHELF WHICH PROVIDES FOR TERMINATION OF UP TO 20 24-CHANNEL T1 FACILITIES OR 16 30-CHANNEL T1 FACILITIES (MAX. CONFIGURATION IN CLASSIC SM).

CAPACITY

EACH DLTU3 WILL ACCOMMODATE UP TO TEN 24-CHANNEL DFI CIRCUIT PACK AND UP TO EIGTH 30-CHANNEL DFI CIRCUIT PACKS

FUSING REQUIREMENTS

SEE SD-5D501-01.
ED5D693-10

SPECIFIC MOUNTING REQUIREMENTS

SEE EQUIPMENT NOTE 201.

MOUNTS IN THE SWITCHING MODULE.

NOTE

1. USED IN AWS APPLICATIONS ONLY.

SPECIFIC REQUIREMENTS:

1. WHEN TWO T1 FACILITIES SERVE AS CONTROL TIME SLOT (CTS) UMBILICALS BETWEEN A HOST SWITCH MODULE (HSM) AND A PARTICLAR REMOTE SWITCH MODULE (RSM) THEY MUST NOT BOTH BE EQUIPPED ON A SINGLE DF12-R OR DF12-X CIRCUIT PACK.

AWS/VCDX

DWG SIZE	ISSUE
C2	6M

Lucent Technologies, Inc. | SD-5D519-01 | SHEET B13

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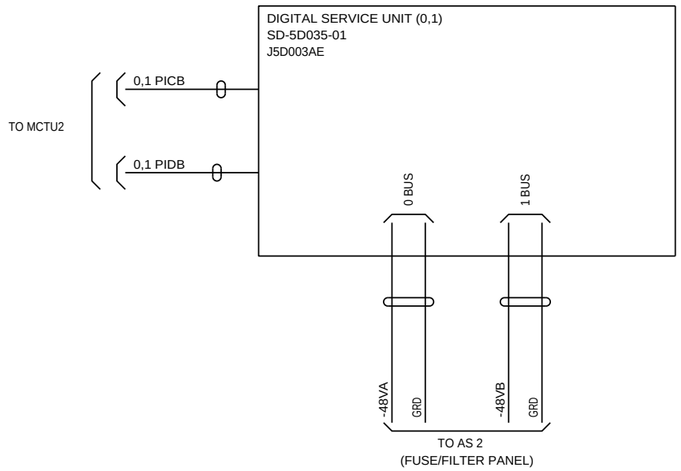
AS 14

GLOBAL DIGITAL SERVICE UNIT
(GDSU)



DESCRIPTION

EACH GLOBAL DSU 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

TWO 70B (2 AMP) FUSES PER UNIT. POWER BUS 0 CONNECTED TO SERVICE GROUP 0. POWER BUS 1 CONNECTED TO SERVICE GROUP 1.
SEE SD-5D035-01

SPECIFIC MOUNTING REQUIREMENTS

SEE EQUIPMENT NOTE 201.

MOUNTS IN THE SWITCHING MODULE

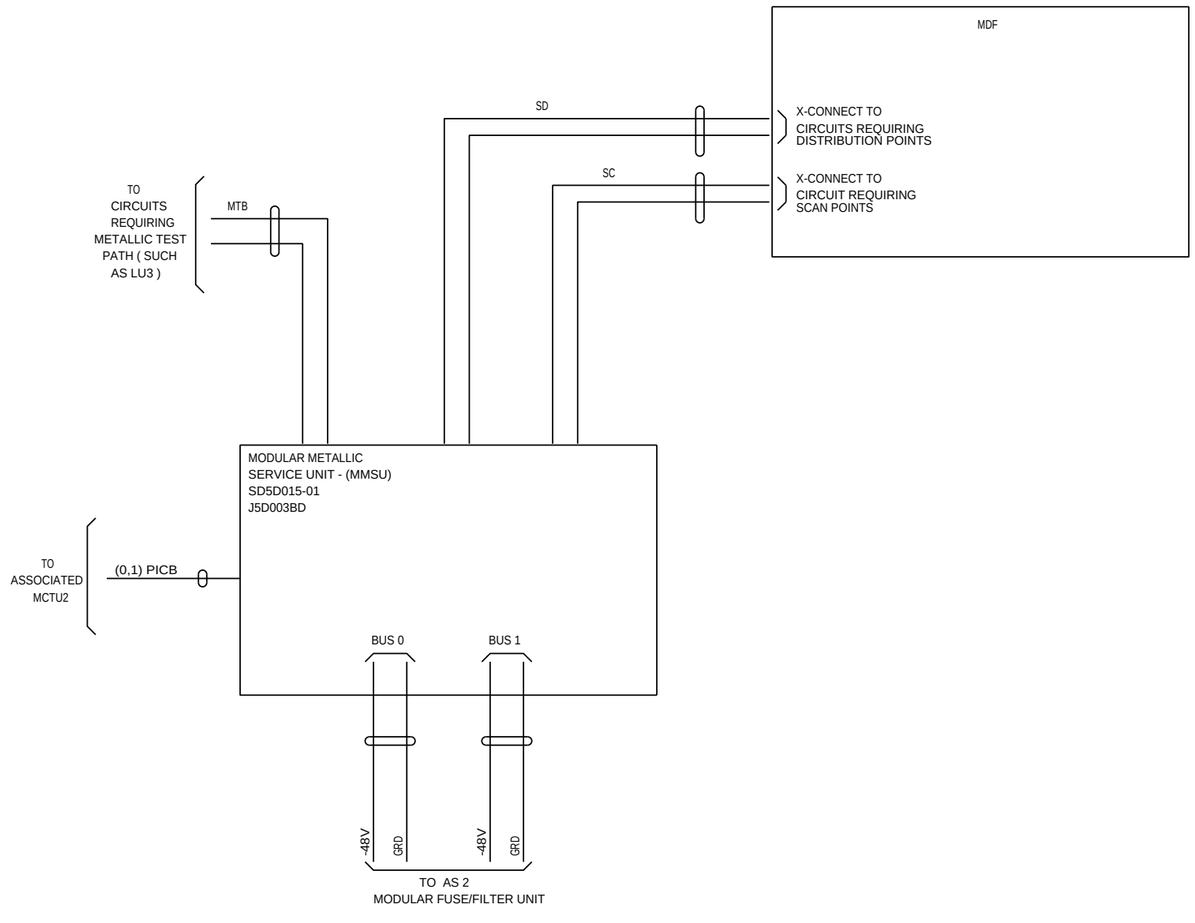
NOTE

1. USED IN VCDX APPLICATIONS ONLY.

AWS/VCDX		DWG SIZE C2	ISSUE 6M
Lucent Technologies, Inc.	SD-5D519-01		SHEET B14

AS 15

MODULAR METALLIC SERVICE UNIT



DESCRIPTION

THE MODULAR METALLIC SERVICE UNIT - (MMSU)
CONSISTS OF ONE 8 1/2" SHELF DIVIDED INTO TWO SERVICE GROUPS
AND REQUIRING ONE DUPLICATED PICB. THIS UNIT IS ENGINEERED
AND CAN BE EQUIPPED TO PROVIDE AUTOMATIC LINE INSULATION
TESTING GDX COMPENSATION, SCAN & DISTRIBUTE, AND METALLIC ACCESS
FUNCTIONS IN ANY COMBENATION.

CAPACITY

SEE SD-5D007-01

FUSING REQUIREMENT

SEE SD-5D015-01 FOR
FUSING REQUIREMENTS.

SPECIFIC MOUNTING REQUIREMENTS

SEE EQUIPMENT NOTE 201.

MOUNTS IN THE SWITCHING MODULE.

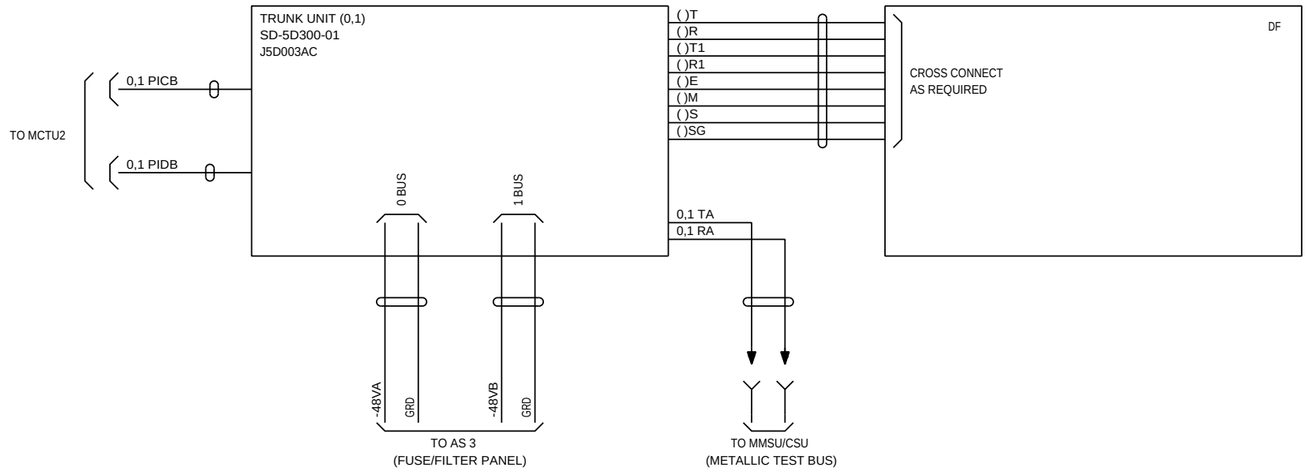
NOTE

1. USED IN VCDX APPLICATIONS ONLY.

AWS/VCDX		DWG SIZE C2	ISSUE 6M
Lucent Technologies, Inc.	SD-5D519-01		SHEET B15

AS 16

TRUNK UNIT



DESCRIPTION

EACH TRUNK UNIT 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 SWITCHBOARDS, OPERATOR POSITIONS AND ANNOUNCEMENT MACHINES.

CAPACITY

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

FUSING REQUIREMENT

ONE 70D (5 AMP) FUSE PER POWER BUS PER UNIT. POWER BUS 0 CONNECTED TO SERVICE GROUP 0. POWER BUS 1 CONNECTED TO SERVICE GROUP 1.
SEE SD-5D300-01

SPECIFIC MOUNTING REQUIREMENTS

SEE EQUIPMENT NOTE 201.

MOUNTS IN THE SWITCHING MODULE.

NOTE

1. USED IN VCDX APPLICATIONS ONLY.

AWS/VCDX		
	DWG SIZE: C2	ISSUE: 6M
Lucent Technologies, Inc.	SD-5D519-01	SHEET: B16

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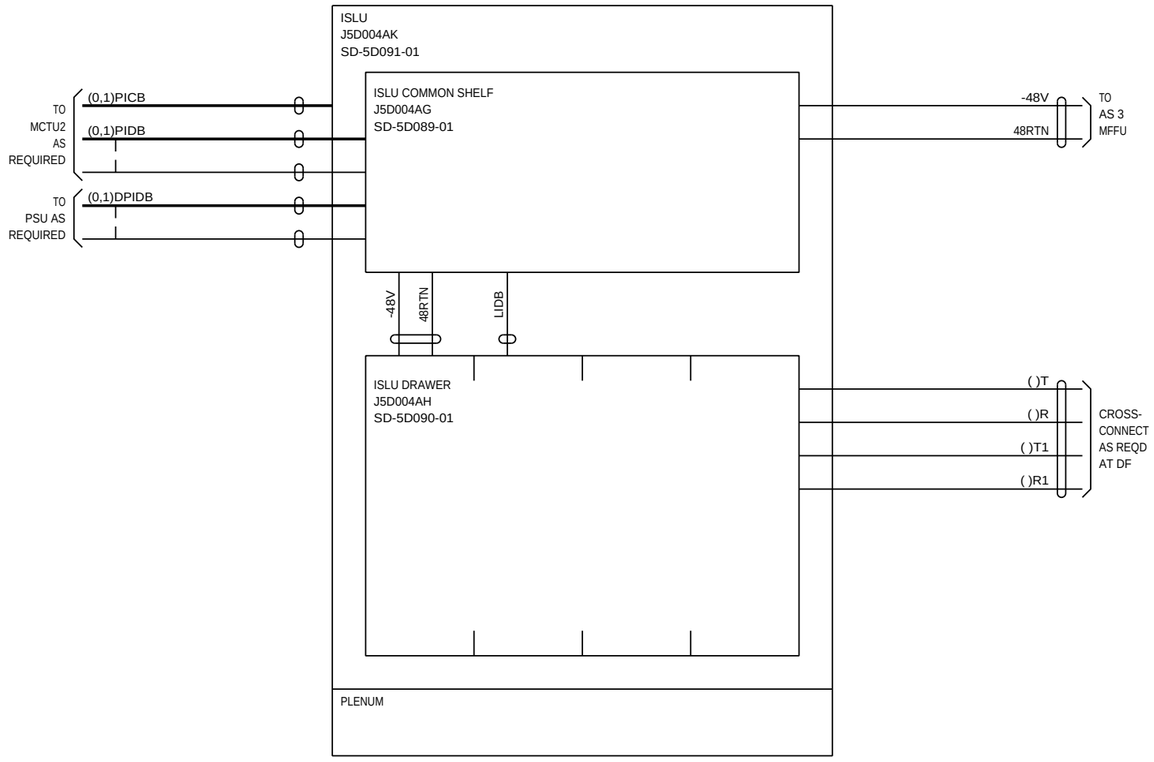
AS 17

INTEGRATED SERVICES LINE UNIT (ISLU)



DESCRIPTION

ISLU IS A (2) SHELF UNIT CONSISTING OF (1) 8 1/2 INCH STANDARD SHELF J5D004AG AND THE OTHER IS A 21 1/4 INCH (4) DRAWER UNIT J5D004AH.

CAPACITY

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

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

THE CONCENTRATION RATIO IS ENGINEERABLE.

FUSING REQUIREMENTS

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

SPECIFIC MOUNTING REQUIREMENTS

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

MOUNTS IN THE SWITCHING MODULE.

NOTE:

1. FOR VCDX APPLICATIONS ONLY.

AWS/VCDX	DWG SIZE C2	ISSUE 6M
Lucent Technologies, Inc.	SD-5D519-01	SHEET B17

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AS 18

COMBINED SERVICES UNIT
(CSU)
SD5D530-01
J5D003FS

DESCRIPTION

CSU IS AN 8 1/2" HIGH SHELF WHICH CAN BE ENGINERRED TO PROVIDE METALLIC ACCESS FUNCTION, SCAN & DISTRIBUTE POINTS, SLIM2 TESTING (MMSU FUNCTIONS), RECORDED ANNOUNCEMENT FUNCTIONS (DSU2 FUNCTIONS), ISTF, TTF, TTF2, CONFERENCE CIRCUITS (GDSF FUNCTIONS), AND TERMINATE UP TO TEN 24 OR 30 CHANNEL T1 FACILITIES (DLTU3 FUNCTIONS).

CAPACITY

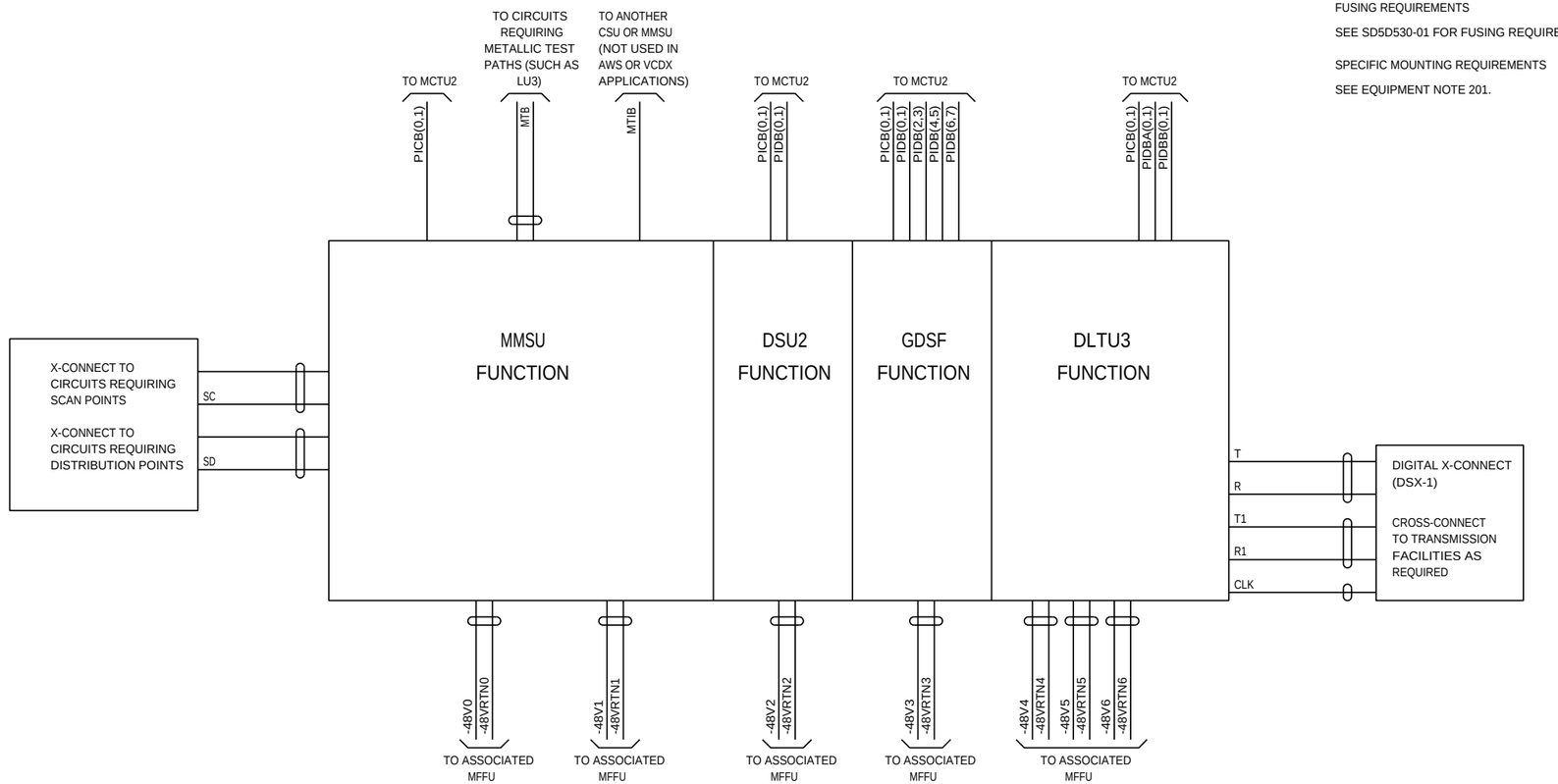
SEE SD5D007-01

FUSING REQUIREMENTS

SEE SD5D530-01 FOR FUSING REQUIREMENTS.

SPECIFIC MOUNTING REQUIREMENTS

SEE EQUIPMENT NOTE 201.



AWS/VCDX		DWG SIZE C2	ISSUE 6M
Lucent Technologies, Inc.	SD-5D519-01		SHEET B17A

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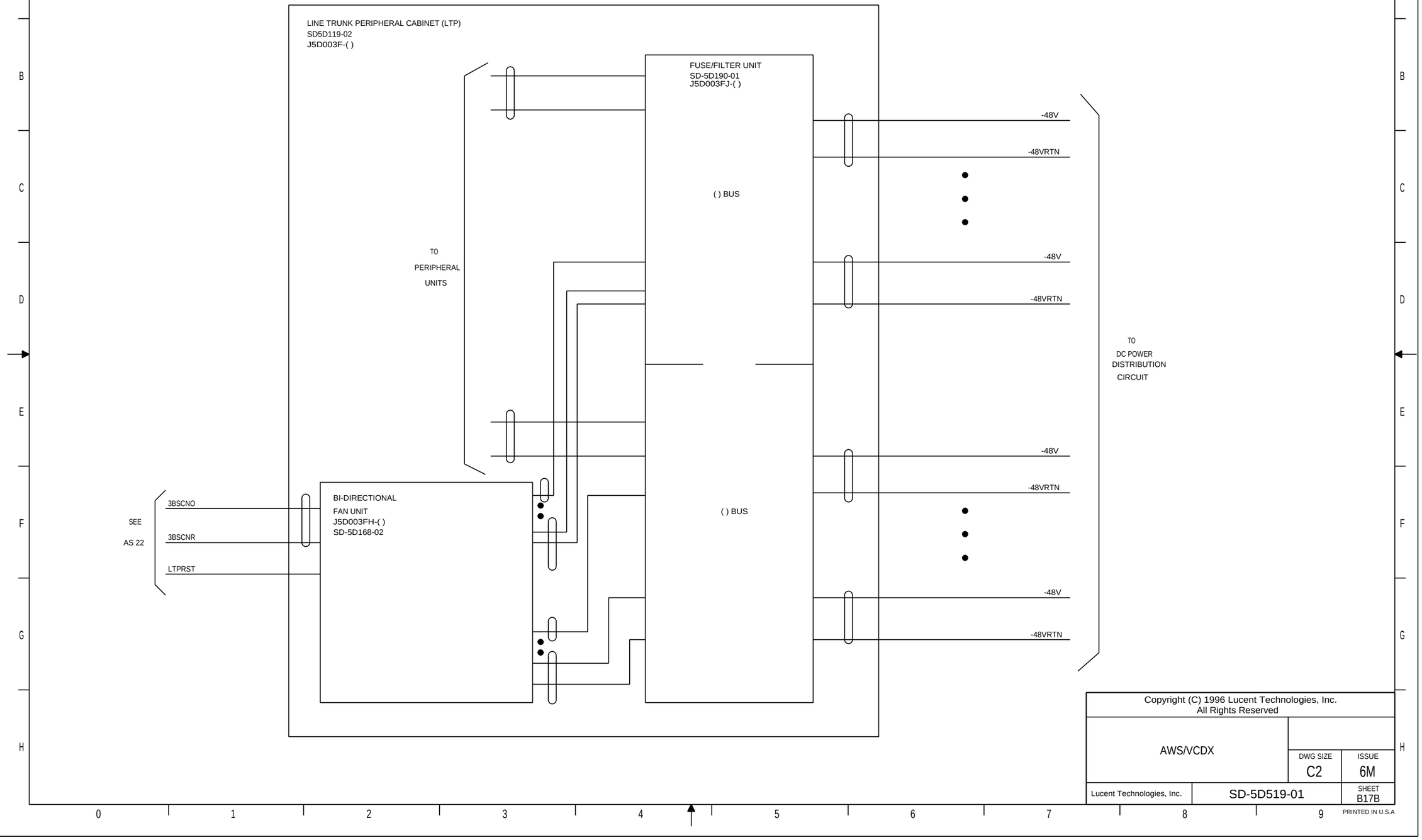
AS - 19

21 INCH DEPTH STANDARD CABINET



AWS/VCDX		DWG SIZE	ISSUE
		C2	6M
Lucent Technologies, Inc.	SD-5D519-01	SHEET	B17B

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AS - 20

STANDARD 2000 CABINET

LINE TRUNK PERIPHERAL CABINET (LTP)
SD5D119-02
J5D003F-( )

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

( ) BUS

-48V
-48VRTN
-48V
-48VRTN

TO
PERIPHERAL
UNITS

TO
DC POWER
DISTRIBUTION
CIRCUIT

SEE
AS 22

3BSCNO
3BSCNR
LTPRST

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

( ) BUS

-48V
-48VRTN
-48V
-48VRTN

AWS/VCDX		DWG SIZE C2	ISSUE 6M
Lucent Technologies, Inc.	SD-5D519-01		SHEET B17C

AS - 21

AIU CABINET

LINE TRUNK PERIPHERAL CABINET (LTP)
SD5D119-02
J5D003F-( )

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

( ) BUS

-48V
-48VRTN
-48V
-48VRTN

TO
PERIPHERAL
UNITS

TO
DC POWER
DISTRIBUTION
CIRCUIT

SEE
AS 22

3BSCNO
3BSCNR
LTPRST

BI-DIRECTIONAL
FAN UNIT
J5D003FT-( )
SD-5D546-1

( ) BUS

-48V
-48VRTN
-48V
-48VRTN

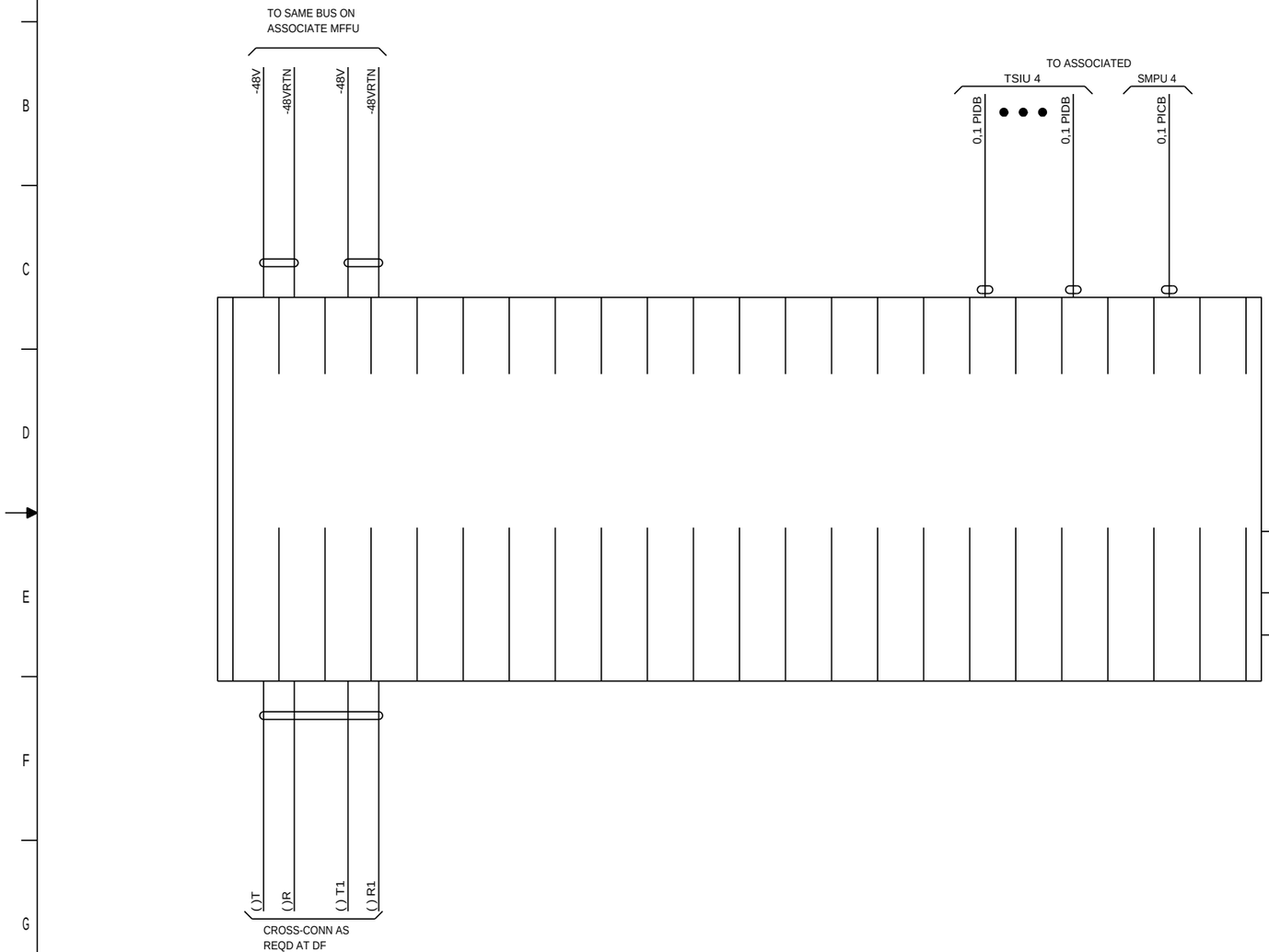
AWS/VCDX

DWG SIZE	ISSUE
C2	6M

Lucent Technologies, Inc. | SD-5D519-01 | SHEET B17D

AS - 22

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



DESCRIPTION

AIU IS A DOUBLE HIGH UNIT (17.00") X 8.62" DEEP.
A CABINET WILL EITHER HAVE (3) OR (6) AIU SHELVES.

CAPACITY

EACH AIU SHELF MAY TERMINATE UP TO 640 LINES.
A FULLY EQUIPPED AIU CABINET TERMINATES 3584 LINES.

FUSING REQUIREMENTS

AIU MUST BE FUSED OFF THE SAME BUS 'A' OR 'B' AS
A (3) SHELF CONFIGURATION (EX: EQPT SIDE BUS 'A' WRG
SIDE BUS 'B' IN SAME CABINET) SEE SD-8G000-01

SPECIFIC MOUNTING REQUIREMENTS

AIU MAY BE OBTAINED AS (3) IN A STANDARD 2000 CABINET
OR (6) IN AN AIU CABINET. THESE ARE UNEQUIPPED SHELVES
WHICH ARE EQUIPPED AS REQUIRED. (SEE EQPT NOTE: 211)

AWS/VCDX		DWG SIZE C2	ISSUE 6M
Lucent Technologies, Inc.	SD-5D519-01		SHEET B17E

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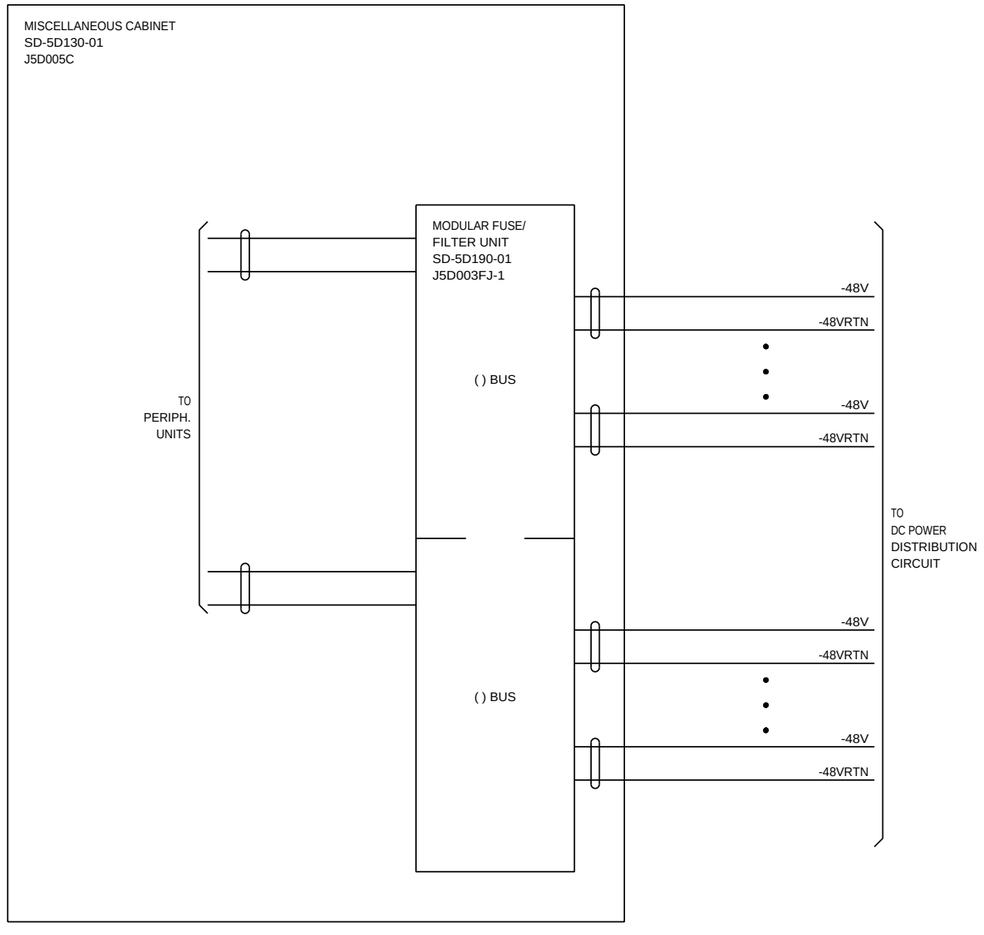
AS 34

MISCELLANEOUS CABINET

NOTES:

1. THE MFFU IS OPTIONAL AND IS ONLY REQUIRED WHEN -48VDC POWER IS REQUIRED IN THE CABINE.



AWS/VCDX		DWG SIZE C2	ISSUE 6M
Lucent Technologies, Inc.	SD-5D519-01		SHEET B18

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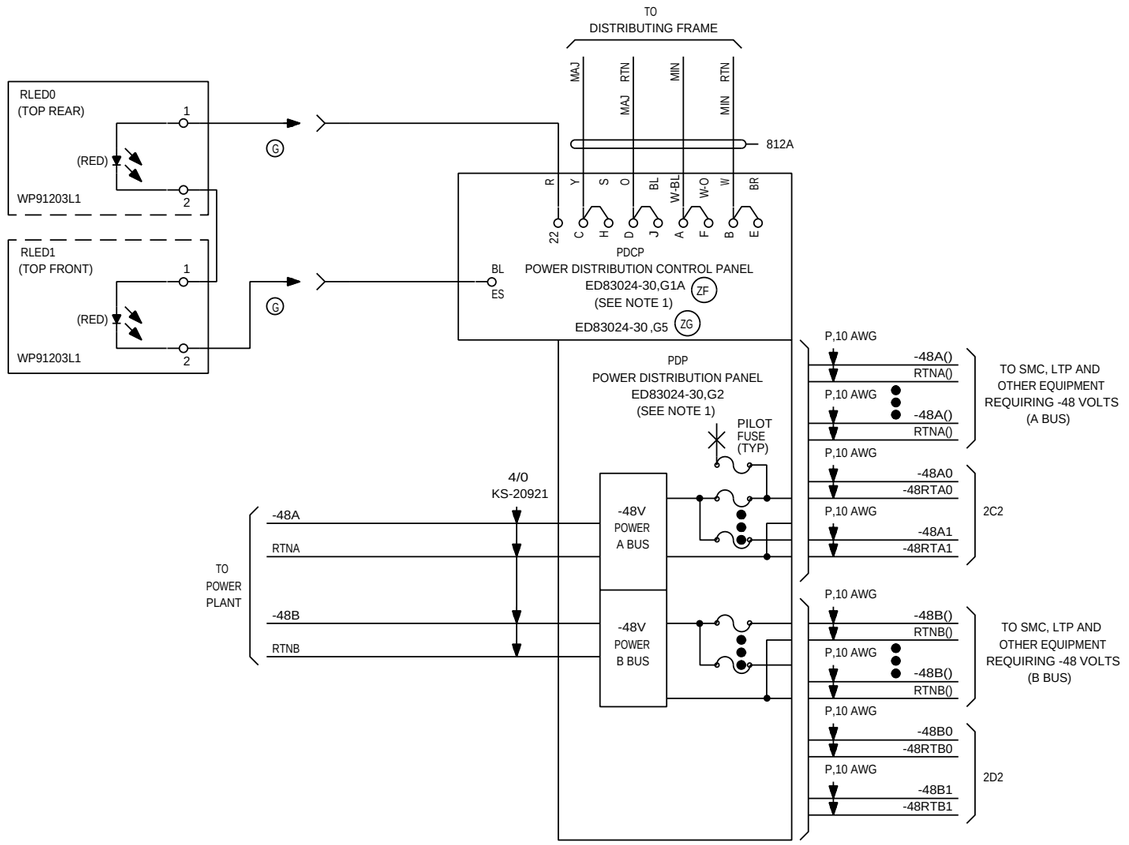
AS 35

POWER DISTRIBUTION PANEL



NOTES:

1. SD-82619-01 CONTAINS SPECIFIC INTERCONNECTION INFORMATION FOR 5ESS® POWER DISTRIBUTION.
2. USED IN VCDX APPLICATIONS ONLY.

DESCRIPTION

THE POWER DISTRIBUTION PANEL CAN BE USED TO PROVIDE DISTRIBUTED -48V POWER TO THE SMC, LTP, AND MISCELLANEOUS CABINETS.

CAPACITY

ONE PER VCDX WHEN CUSTOMER PROVIDED DISTRIBUTED POWER IS NOT PROVIDED.

SPECIFIC MOUNTING REQUIREMENTS

MOUNTS IN THE MISCELLANEOUS CABINET. SEE EQUIPMENT NOTE 203.

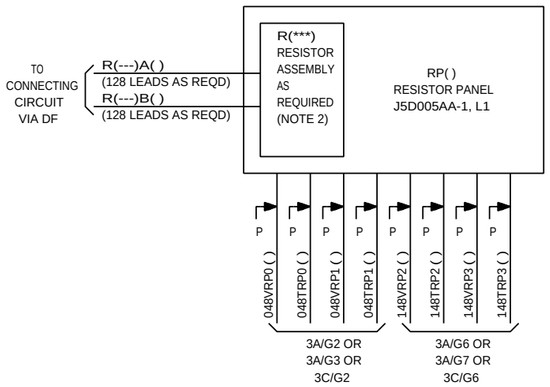
AWS/VCDX		DWG SIZE C2	ISSUE 6M
Lucent Technologies, Inc.	SD-5D519-01		SHEET B19

AS 36

RESISTOR PANEL

TABLE A - POWER AND GROUND

BUS	FUSE DESIG	LEAD DESIG (ON CABINET)	RESISTOR PANEL LUG	
			DESIG	TERMINAL
0	RP0( )	048VRP0( )	-48V0	02-017-0B0
		048TRP0( )	-48RTN0	02-012-0B0
	RP1( )	048VRP1( )	-48V1	02-062-0B0
		048TRP1( )	-48RTN1	02-057-0B0
1	RP2( )	148VRP2( )	-48V2	02-107-0B0
		148TRP2( )	-48RTN2	02-102-0B0
	RP3( )	148VRP3( )	-48V3	02-152-0B0
		148TRP3( )	-48RTN3	02-147-0B0



NOTES:

1. RESISTOR ASSEMBLIES ARE EQUIPPED AS REQUIRED BY EACH INDIVIDUAL OFFICE PER J5D005AA-1 (SD-5D044-01).
2. RESISTOR PANEL DESIGNATIONS ARE AS FOLLOWS:

RESISTOR

R(---) A ( )
- ( ) LEAD DESIGNATION (ON CABINET). PANEL DESIGNATION (RP(A) OR RP(B)
- (---) RESISTOR LEAD DESIGNATION (R(---)A,R(---)B). (ON UNIT SEE TABLE B)
- R RESISTOR ASSEMBLY DESIGNATIONS.

POWER

( ) 48V RP0( )
- ( ) POWER BUS (0 OR1).
- 48V POTENTIAL (-48V OR -48T (RTN)).
- RP( ) RESISTOR PANEL DESIGNATION. ( ) INDICATES PANEL (A THROUGH D).

DESCRIPTION

THE RESITOR PANEL IS A 4" HIGH UNIT WHICH PROVIDES 128 TIP AND RING ACCESS TO SD AND MTB POINTS.

CAPACITY

PROVIDE 128 TIP AND RING ACCESS TO SD AND MTB POINTS.

FUSING REQUIREMENTS

SEE SD5D130-01

SPECIFIC MOUNTING REQ.

MOUNTS IN THE MISCELLANEOUS CABINET. SEE EQUIPMENT NOTE 203.

TABLE B - RESISTOR PANEL LAYOUT (FRONT)

CONN. TERM. NO.	RESISTOR LEAD DESIG R(---)(A,B)(ON UNIT)																																CONN. TERM. NO.
	008	013	018	023	028	033	038	043	053	058	063	068	073	078	083	088	098	103	108	113	118	123	128	133	143	148	153	158	163	168	173	178	
024	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	024
023																																	023
022	003B	007B	011B	015B	019B	023B	027B	031B	035B	039B	043B	047B	051B	055B	059B	063B	067B	071B	075B	079B	083B	087B	091B	095B	099B	103B	107B	111B	115B	119B	123B	127B	022
021	003A	007A	011A	015A	019A	023A	027A	031A	035A	039A	043A	047A	051A	055A	059A	063A	067A	071A	075A	079A	083A	087A	091A	095A	099A	103A	107A	111A	115A	119A	123A	127A	021
020																																	020
019	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	019
018	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	018
017																																	017
016	002B	006B	010B	014B	018B	022B	026B	030B	034B	038B	042B	046B	050B	054B	058B	062B	066B	070B	074B	078B	082B	086B	090B	094B	098B	102B	106B	110B	114B	118B	122B	126B	016
015	002A	006A	010A	014A	018A	022A	026A	030A	034A	038A	042A	046A	050A	054A	058A	062A	066A	070A	074A	078A	082A	086A	090A	094A	098A	102A	106A	110A	114A	118A	122A	126A	015
014																																	014
013	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	013
012	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	012
011	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	011
010																																	010
009	001B	005B	009B	013B	017B	021B	025B	029B	033B	037B	041B	045B	049B	053B	057B	061B	065B	069B	073B	077B	081B	085B	089B	093B	097B	101B	105B	109B	113B	117B	121B	125B	009
008	001A	005A	009A	013A	017A	021A	025A	029A	033A	037A	041A	045A	049A	053A	057A	061A	065A	069A	073A	077A	081A	085A	089A	093A	097A	101A	105A	109A	113A	117A	121A	125A	008
007																																	007
006	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	006
005	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	005
004																																	004
003	000B	004B	008B	012B	016B	020B	024B	028B	032B	036B	040B	044B	048B	052B	056B	060B	064B	068B	072B	076B	080B	084B	088B	092B	096B	100B	104B	108B	112B	116B	120B	124B	003
002	000A	004A	008A	012A	016A	020A	024A	028A	032A	036A	040A	044A	048A	052A	056A	060A	064A	068A	072A	076A	080A	084A	088A	092A	096A	100A	104A	108A	112A	116A	120A	124A	002
001																																	001
000	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	000

RESISTOR ASSEMBLY (024–019)
RESISTOR ASSEMBLY (018–013)
RESISTOR ASSEMBLY (011–006)
RESISTOR ASSEMBLY (005–000)

-48V0/-48RTN0 -48V1/-48RTN1 -48V2/-48RTN2 -48V3/-48RTN3

0 POWER BUS 1 POWER BUS

LEGEND:

ALL BLANK SPACES IN TABLE B ARE NO CONNECTS.

BACKPLANE GROUND PLANES (-48 RTN)

XXXX BACKPLANE POWER PLANES (-48V)

AWS/VCDX

DWG SIZE	ISSUE
C2	6M

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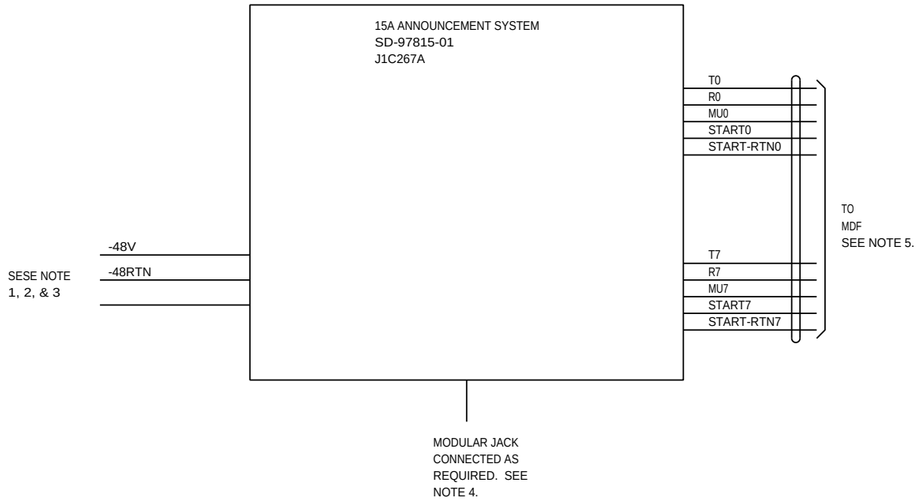
AS 37

15A ANNOUNCEMENT SYSTEM



NOTES:

1. THE VOLTAGE REQUIRED FOR THE 15A CAN BE OBTAINED FROM THE -48V BATTERY PLANT OR FROM A SEPARATE POWER MODULE. THE CIRCUIT PACK CAN BE POWERED THROUGH THE TERMINAL BLOCK USING THE -48V POWER EXISTING IN THE CABINET.

2. THE INPUT VOLTAGE REQUIREMENTS ARE -39.5VDC TO -60VDC MEASURED AT THE INPUT OF THE 15A. THE NOMINAL CURRENT DRAIN OF EACH PACK IS 130 MA AT -48VDC.

   WHEN POWERING FROM A BATTERY PLANT, EACH CIRCUIT PACK IN A 15A SHELF SHOULD BE POWERED AND FUSED SEPARATELY. THE POWER DISSIPATION OF THE UNITS IS SMALL, WHEN USING STANDARD TELECOMMUNICATION FUSES, SUCH AS THE 70 TYPE, A RATING OF 3/4 A OR HIGHER COULD BE USED TO AVOID NUISANCE TRIPPING OF THE FUSE DURING TRANSIENTS AND POWER UP. THE FUSE RATING SHOULD NOT EXCEED 1 3/4 A.

3. ALL SIGNALING IS DONE WITH RESPECT TO -48VRTN. THE STARTRTN PINS ARE TIED TO -48VRTN INTERNALLY. THE SIGNAL SENT BACK TO THE SWITCH FROM THE 15A (MUTE OR CUT-THROUGH) IS REFERENCED TO -48VRTN, I.E., IT CONSISTS OF A CLOSURE FROM THE MUTE PINS TO -48VRTN (SIGNALLING GROUND). WHEN THE UNITS ARE POWERED FROM TA CENTRALIZED BATTERY PLANT, THE 15A IS CONNECTED TO THE SWITCH SIGNALING GROUND BY MEANS OF THE POWERING CONNECTION.

4. THE RRU MODULAR JACK J2 IS OPTIONAL. WHEN THE 15A IS EQUIPPED WITH THE 400A REMOTE RECORD UNIT, THE JACK J2 IS USED TO INTERCONNECT AN ANALOG LINE DIRECTLY OR VIA THE ALD4 REMOTE RECORD CONCENTRATOR (SD97812-01).

5. 50 PIN CONNECTOR (KS-16689,L18 TYPE) STANDARD 25 PAIR COMMUNICATION CABLE.

6. SEE SD-97815-01 COMMON SYSTEM 15A ANNOUNCEMENT SYSTEM CIRCUIT FOR ADDITIONAL INFORMATION.

DESCRIPTION

EACH 15A ANNOUNCEMENT SYSTEM IS A 2 INCH HIGH UNIT WHICH PROVIDES RECORDED ANNOUNCEMENTS.

CAPACITY

EACH 15A ANNOUNCEMENT SYSTEM PROVIDES UP TO 16 ANNOUNCEMENT CIRCUITS.

FUSING REQUIREMENTS

SEE SD5D130-01

SPECIFIC MOUNTING REQUIREMENTS

SEE EQUIPMENT NOTE 203. THE 15A ANNOUNCEMENT SYSTEM MOUNTS IN THE MISCELLANEOUS CABINET.

AWS/VCDX		DWG SIZE C2	ISSUE 6M
Lucent Technologies, Inc.	SD-5D519-01		SHEET B21

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P/O AS 50

SEE FIGURE A
FOR APPLICATION
SPECIFIC HARDWARE
CONFIGURATIONS

ADMINISTRATIVE WORKSTATION
(SPARC CLASSIC)
ED5D764-30
(NOTE 6)

PORT 3 PORT 2 PORT 1 PORT 0

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

SEE FIGURE B
FOR APPLICATION SPECIFIC
HARDWARE CONFIGURATIONS

PARALLEL
PORT 0 PORT 1 PORT 2 PORT 3 PORT 4 PORT 5 PORT 6 PORT 7
SERIES/PARALLEL
SERIES / PARALLEL INTERFACE ED5D764-30

CABLE, PRINTER
ED5D764-30

ROP
PARALLEL PRINTER
ED5D764-30

DAT TAPE UNIT
ED5D764-30

SCSI ID
SWITCH
5
IN
OUT
68 PIN CONNECTOR
68 PIN CONNECTOR

SECOND SCSI DISK
FOR US DOMESTIC
APPLICATIONS ONLY

SCSI ID
SWITCH
1
SCSI BUS
2.1 GBYTE DISK
ED5D764-30

SCSI ID
SWITCH
3
SCSI BUS
2.1 GBYTE DISK
ED5D764-30

MTTY TERMINAL
ED5D764-30 120VAC
ED5D764-30 220VAC

MTTY POWER CORD

SPARCstation 5
ED5D764-30

UNUSED SBUS SLOT
HIGH SPEED SBUS
SERIES/PARALLEL SBUS

SCSI BUS
PARALLEL
ETHERNET
TPE
SERIAL B
SERIAL A
KYBD
AUDIO CONNECT

VIDEO
PARALLEL
AUX PORT
EIA PORT

ED5D764-30 CABLE
ETHERNET DROP

TRANSCEIVER
ETHERNET
ED5D764-30

SEE FIGURE B
FOR APPLICATION SPECIFIC
HARDWARE CONFIGURATIONS

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

CABLE, RS232
ED5D764-30

524565959 NULL MODEM REF

406447045 REF

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

AWS/VCDX	DWG SIZE C2	ISSUE 6M
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P/O AS 50

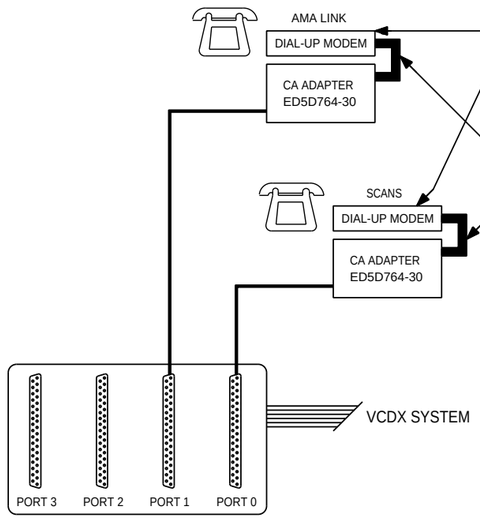

FIGURE A

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

= TELEPHONE LINE

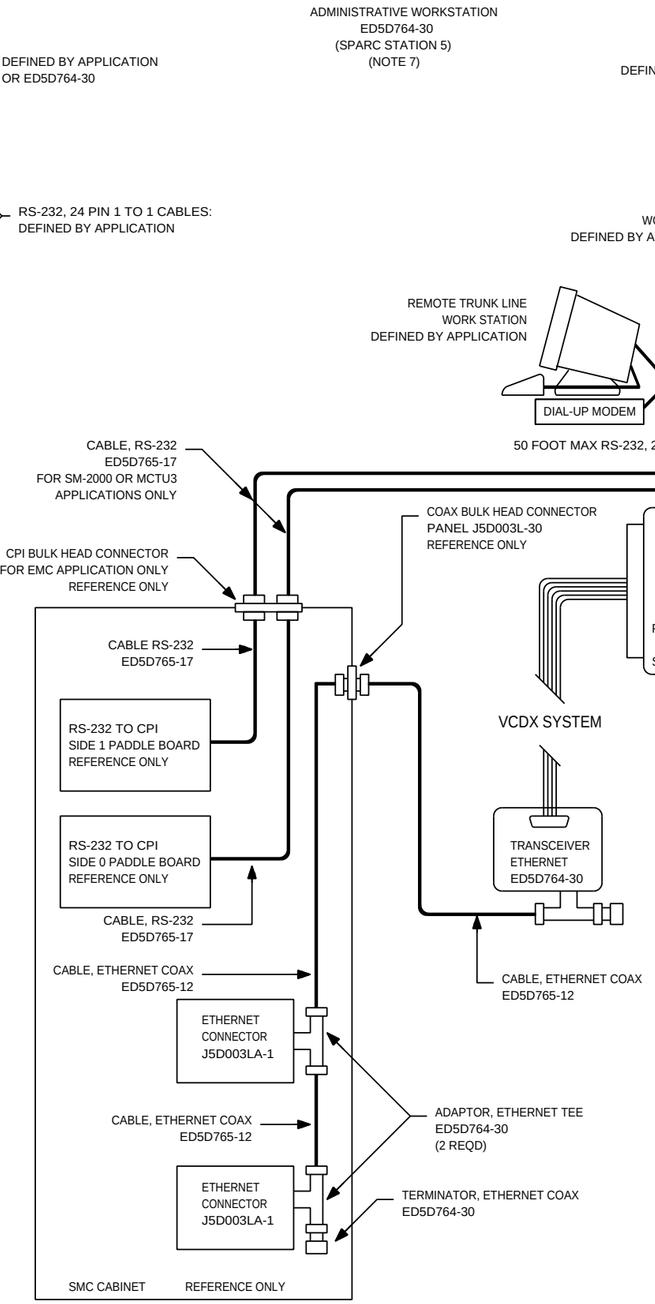

FIGURE B

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

AWS/VCDX		DWG SIZE C2	ISSUE 6M
Lucent Technologies, Inc.	SD-5D519-01	SHEET B24	

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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 MCTU2 982YD PADDLE BOARD) IS LIMITED TO 50 CABLE FEET.

3. ALL RS232 CABLING 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 G17 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 5ESS TERMINAL TYPES FOR THE US LOADLINE. REFERENCE OSS DRAWING AND ED-5D764-30.

SERIAL PORT	TERMINAL TYPE
0	CENTRAL PROCESSOR INTERVENTION (CANNOT BE USED FOR TERMINALS)
1	CENTRAL PROCESSOR INTERVENTION (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) OR LOCAL RECENT CHANGE AND VERIFY TERMINAL (TTY21)
6	SUPPLEMENTAL TRUNK AND LINE WORKSTATION (TTY13) OR TRAFFIC PRINTER (TTY07)
7	SUPPLEMENTAL TRUNK AND LINE WORKSTATION (TTY14) OR OFFICE RECORD PRINTER (TTY43)

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

AWS/VCDX

DWG SIZE	ISSUE
C2	6M

Lucent Technologies, Inc. | SD-5D519-01 | SHEET B25

AS 51

ALARM STATUS UNIT
MODEL 2
(ASU2)

DESCRIPTION :

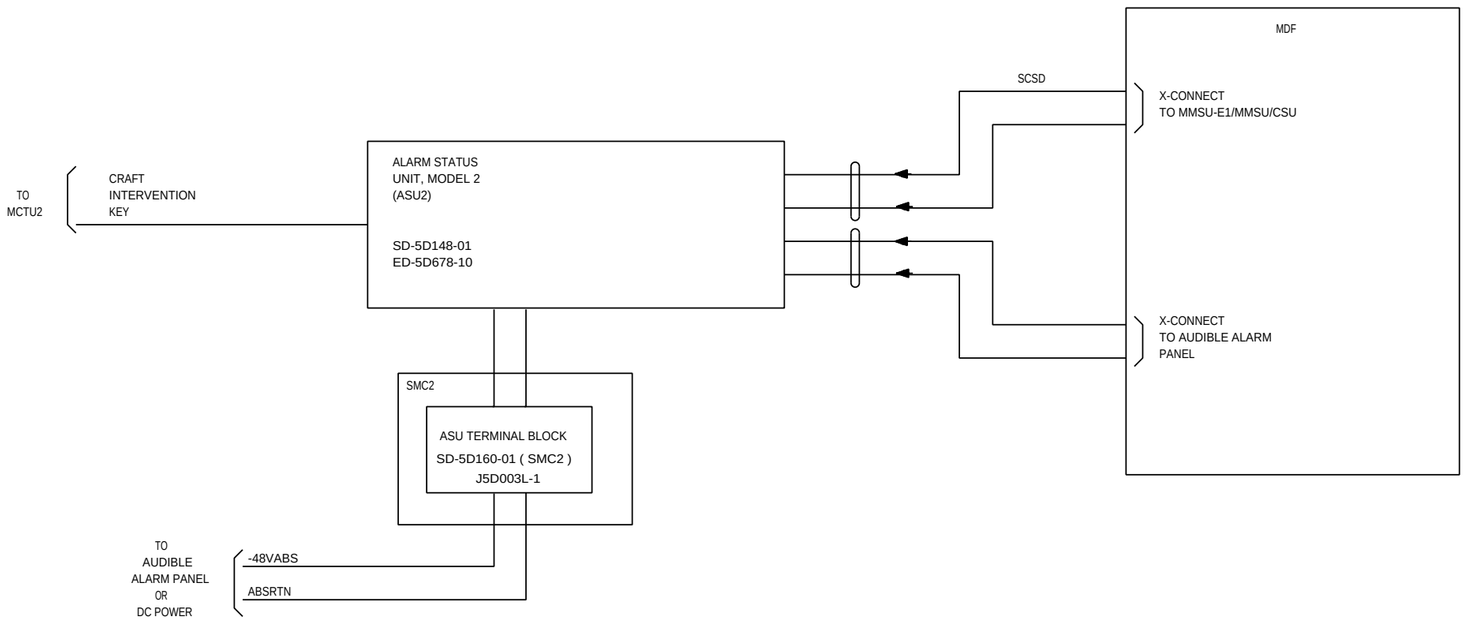
THE ASU2 IS A HOUSING WHICH
PROVIDES VISUAL ALARM INDICATORS,
SM MONITORING INDICATORS,
AND SM INTERVENTION BUTTONS.

FUSING REQUIREMENTS :

THE ASU2 IS FUSED
AT THE POWER PLANT.

SPECIFIC MOUNTING REQUIREMENTS :

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



AWS/VCDX	DWG SIZE C2	ISSUE 6M
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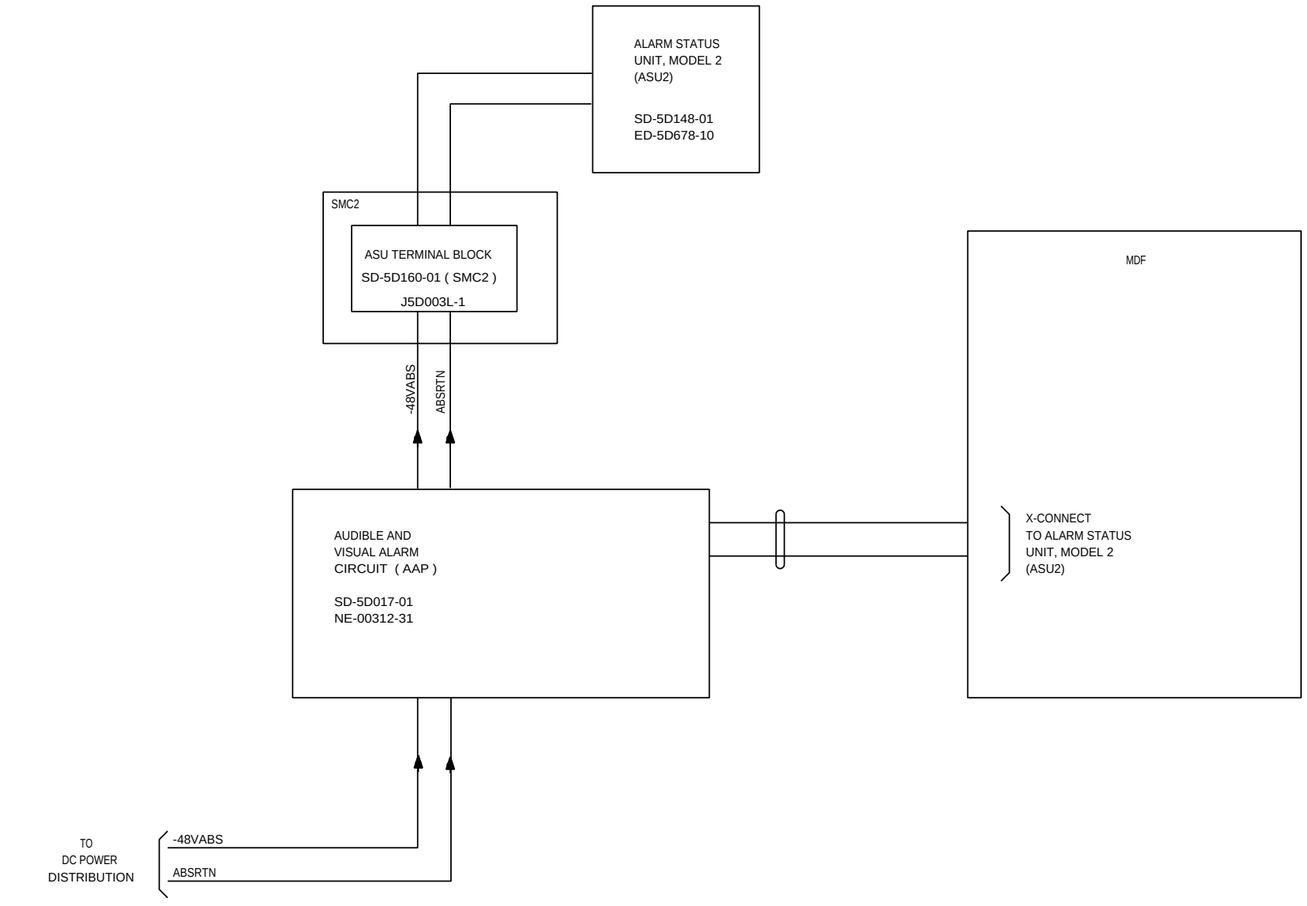
AS 52

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.



AWS/VCDX		DWG SIZE C2	ISSUE 6M
Lucent Technologies, Inc.	SD-5D519-01		SHEET B27

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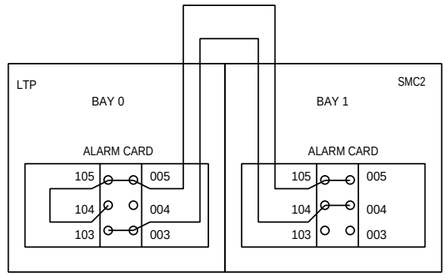
P/O AS 53

PERIPHERAL FUSE ALARM MULT
FOR A TWO CABINET LINE-UP
(" A " BUS CONFIGURATION)

NOTE :

1. "B" BUS CONFIGURATION IS SIMILAR EXCEPT IT USES TERMINALS:
   006-106
   007-107
   008-108



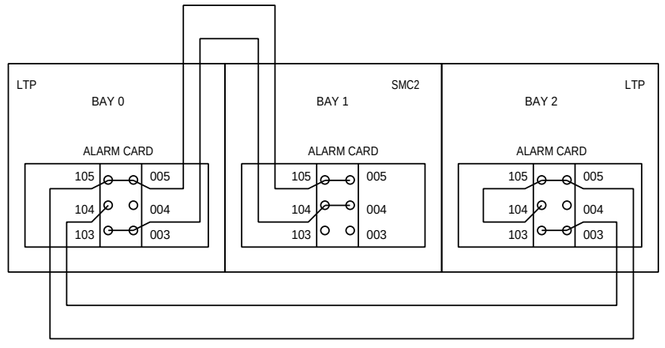
AWS/VCDX			
		DWG SIZE C2	ISSUE 6M
Lucent Technologies, Inc.	SD-5D519-01		SHEET B28

P/O AS 53

PERIPHERAL FUSE ALARM MULT
FOR A THREE CABINET LINE-UP
(" A " BUS CONFIGURATION)

NOTE :

1. "B" BUS CONFIGURATION IS SIMILAR EXCEPT IT USES TERMINALS:
   006-106
   007-107
   008-108



AWS/VCDX	DWG SIZE C2	ISSUE 6M
Lucent Technologies, Inc.	SD-5D519-01	SHEET B29

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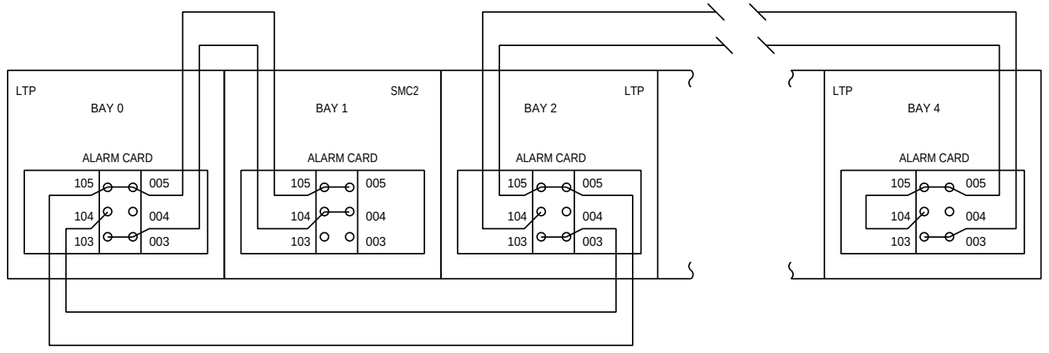
P/O AS 53

PERIPHERAL FUSE ALARM MULT
FOR A FOUR TO FIVE CABINET LINE-UP
(" A " BUS CONFIGURATION)

NOTE :

1. "B" BUS CONFIGURATION IS SIMILAR EXCEPT IT USES TERMINALS:
   006-106
   007-107
   008-108



AWS/VCDX		DWG SIZE C2	ISSUE 6M
Lucent Technologies, Inc.	SD-5D519-01		SHEET B30

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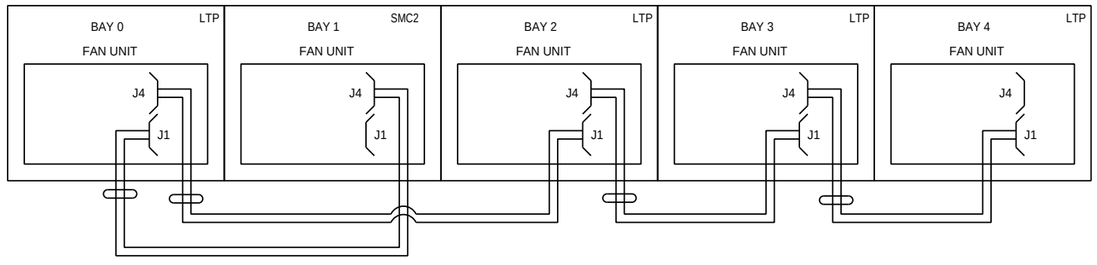
AS 54

INTER-CABINET FAN ALARM SCAN/DISTRIBUTION MULT
(E/W CONNECTORIZED ALARM BOARD)

NOTES :

1. CABLE MULT IS SIMILAR FOR ALL SINGLE LINE- UP CONFIGURATIONS.
2. THE CABLE MULT IS THE SAME WHETHER A 3-FAN, 6-FAN, OR BI-DIRECTIONAL FAN UNIT IS USED IN EITHER THE SMC2 OR LTP CABINETS.



AWS/VCDX	DWG SIZE C2	ISSUE 6M
Lucent Technologies, Inc.	SD-5D519-01	SHEET B31

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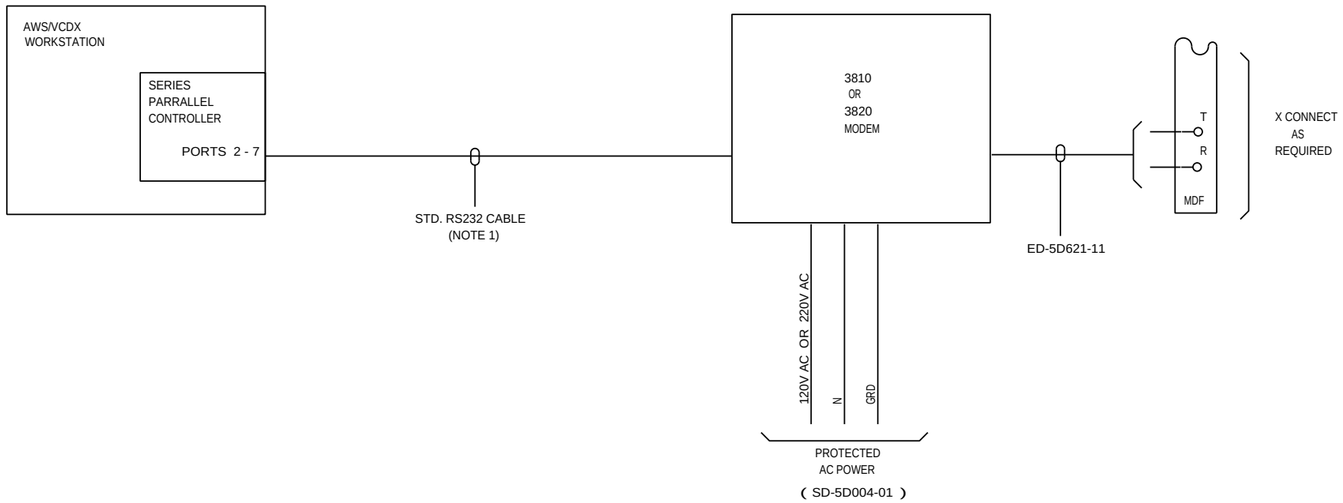
P/O AS 55

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.



AWS/VCDX		DWG SIZE	ISSUE
		C2	6M
Lucent Technologies, Inc.	SD-5D519-01		SHEET B32

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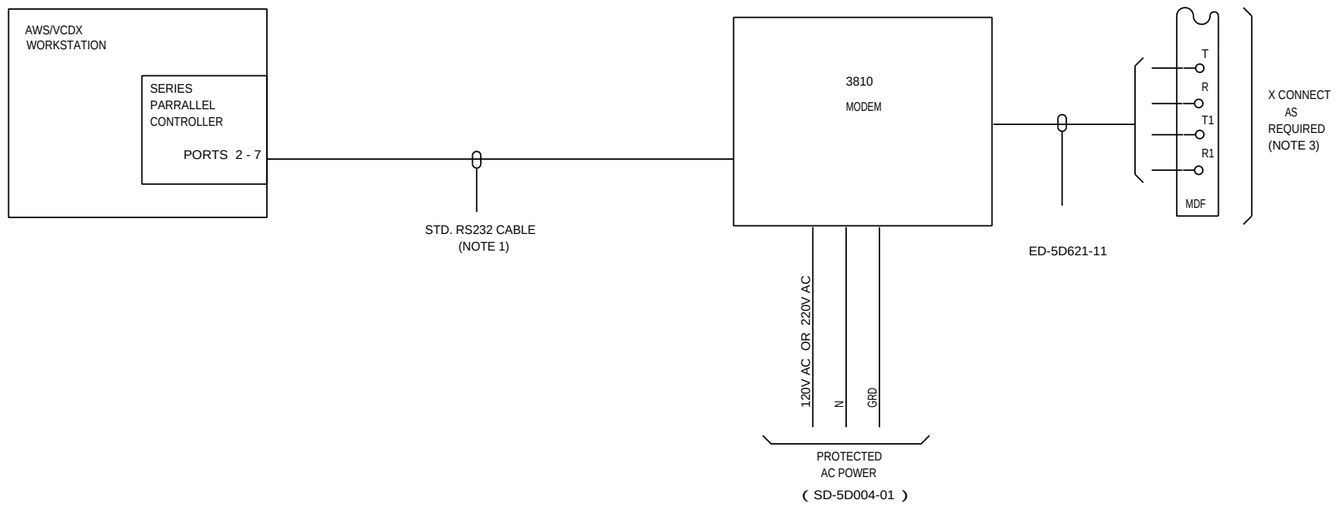
TYPICAL 3810 4 - WIRE

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 WIRE STLWS.



AWS/VCDX	DWG SIZE C2	ISSUE 6M
Lucent Technologies, Inc.	SD-5D519-01	SHEET B33

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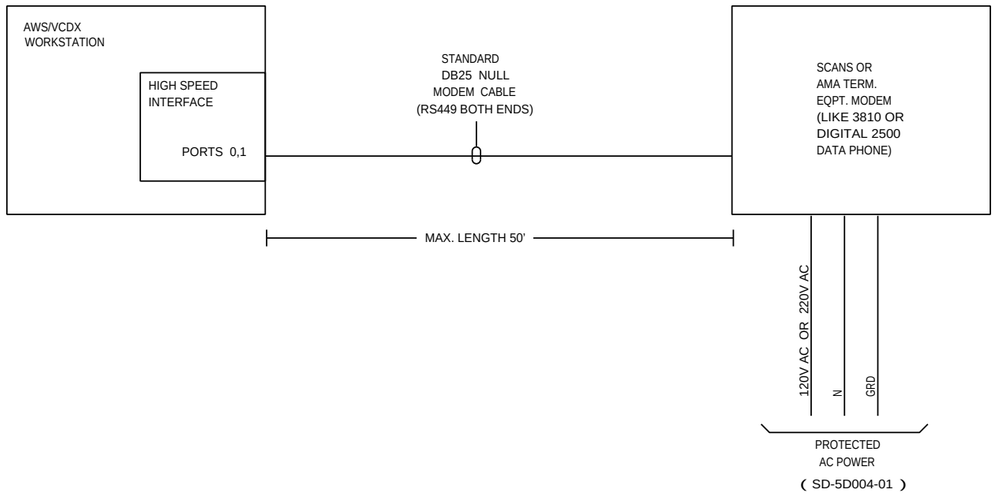
TYPICAL ARRANGEMENT
FOR HIGH SPEED INTERFACE



AWS/VCDX	DWG SIZE C2	ISSUE 6M
Lucent Technologies, Inc.	SD-5D519-01	SHEET B33A

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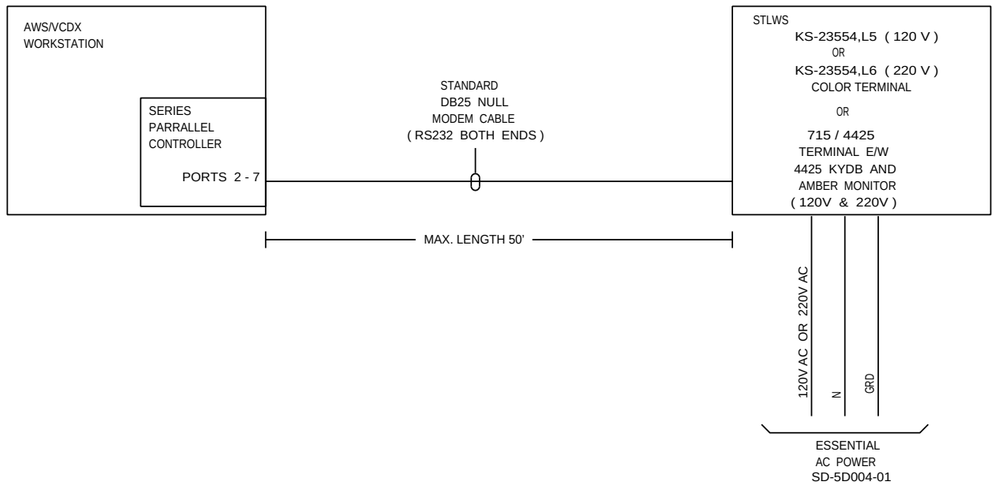
P/O AS 56

TYPICAL DATA SET

ARRANGEMENT FOR STLWS



AWS/VCDX		DWG SIZE	ISSUE
		C2	6M
Lucent Technologies, Inc.	SD-5D519-01		SHEET B34

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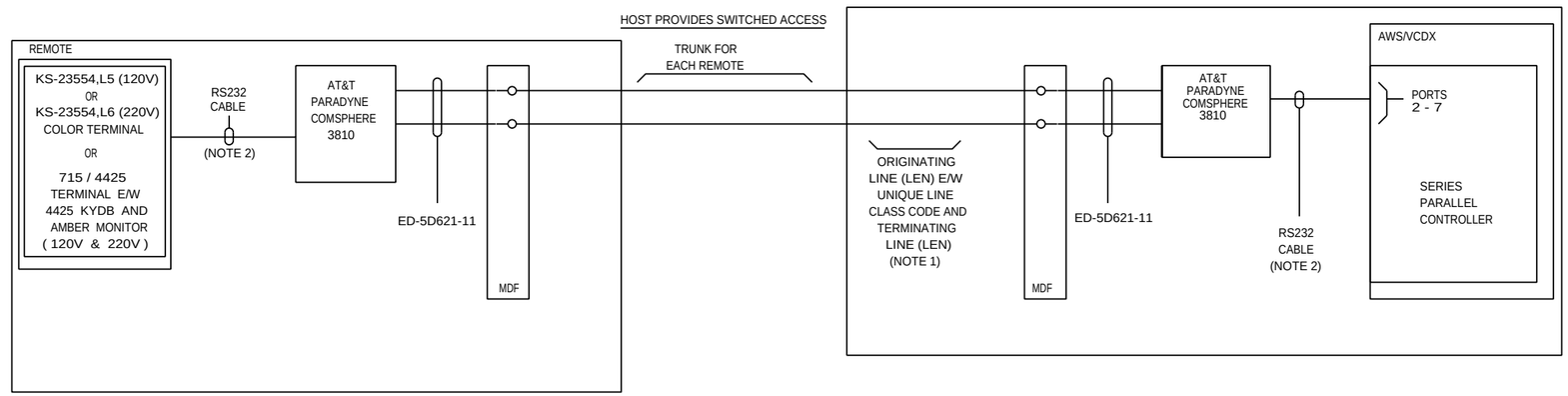
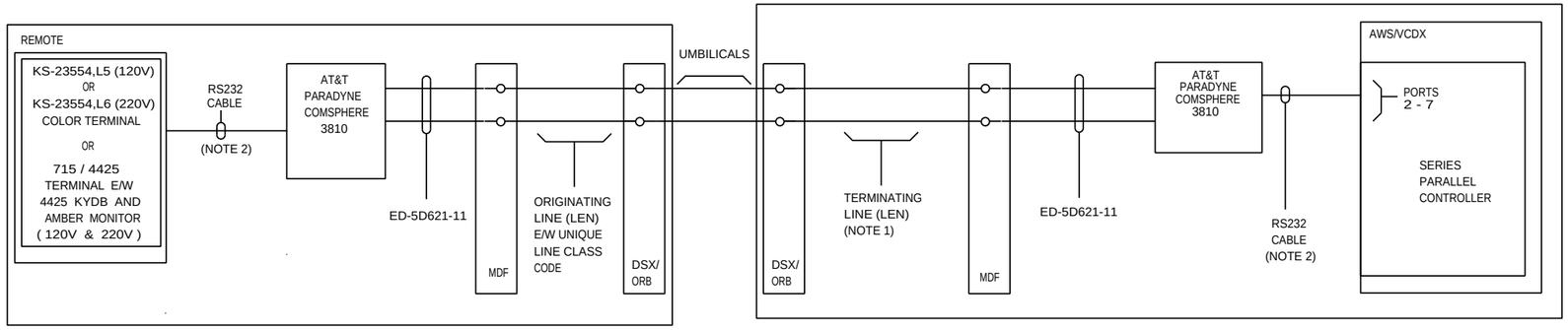
TYPICAL DATA SET ARRANGEMENT

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 THE "CONFIGURE" MODE
   b) SELECT: "FACTORY"
   c) SELECT "SYNC_LEASED"
      FOR CHOOSE MODE SELECT: "Answer"
      (THE OTHER END MUST BE SET TO "0rig")
   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"
   g) FOR LEASED TX LEVEL - SELECT: "-13"
      SAVE THE SETTINGS.

4. CABLE LENGTHS TO THE MDF ARE LINITED TO 500 CABLE FEET.

5. DATA SET STRAPS WHICH TIE SIGNAL GROUND TO EQUIPMENT OR CHASSIS GROUND SHALL BE REMOVED.

AWS/VCDX	DWG SIZE	ISSUE
	C2	6M
Lucent Technologies, Inc.	SD-5D519-01	SHEET B35

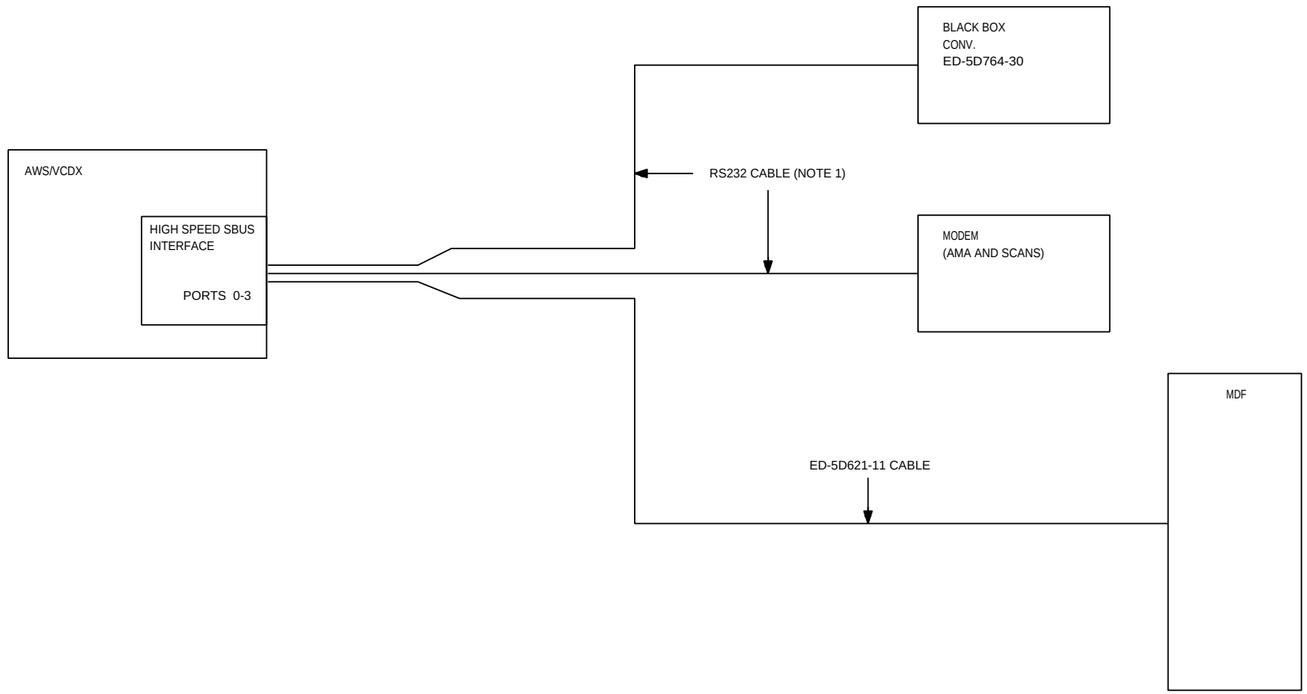
AS 57

TYPICAL HIGH SPEED SBUS

INTERFACE

NOTES:

1. STANDARD RS232 CABLE WITH RS232 CONNECTORS ON BOTH END AND 1 TO 1 PIN MAPPING, LIMITED TO 50 CABLE FEET.



AWS/VCDX		DWG SIZE C2	ISSUE 6M
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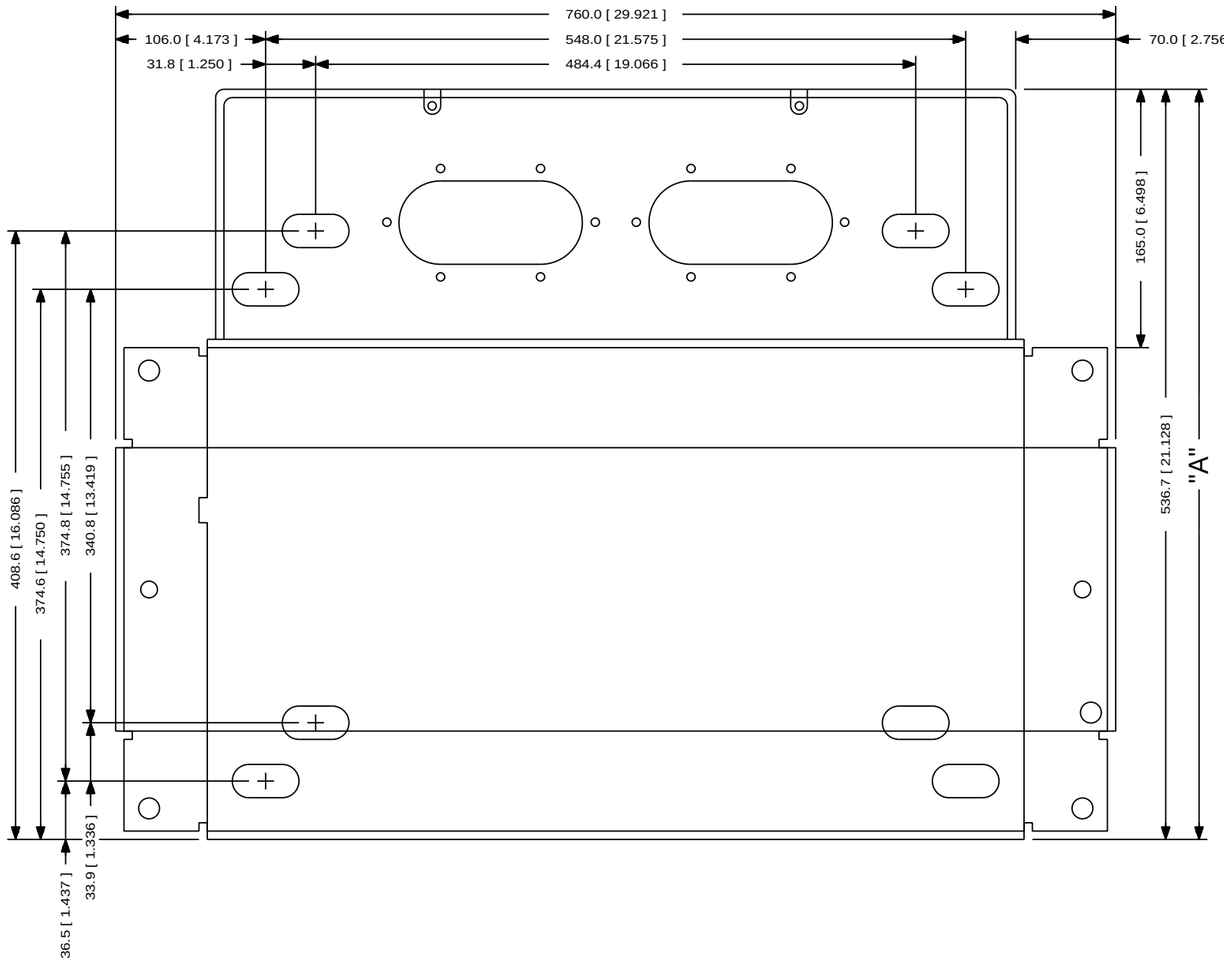
5ESS-2000 SWITCH CABINET FLOOR MOUNTING
(CABINET DETAIL)



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

AWS/VCDX

DWG SIZE C2 | ISSUE 6M

Lucent Technologies, Inc. | SD-5D519-01 | SHEET B36

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5ESS-2000 SWITCH CABINET DOOR SWING

(CABINET DETAIL)

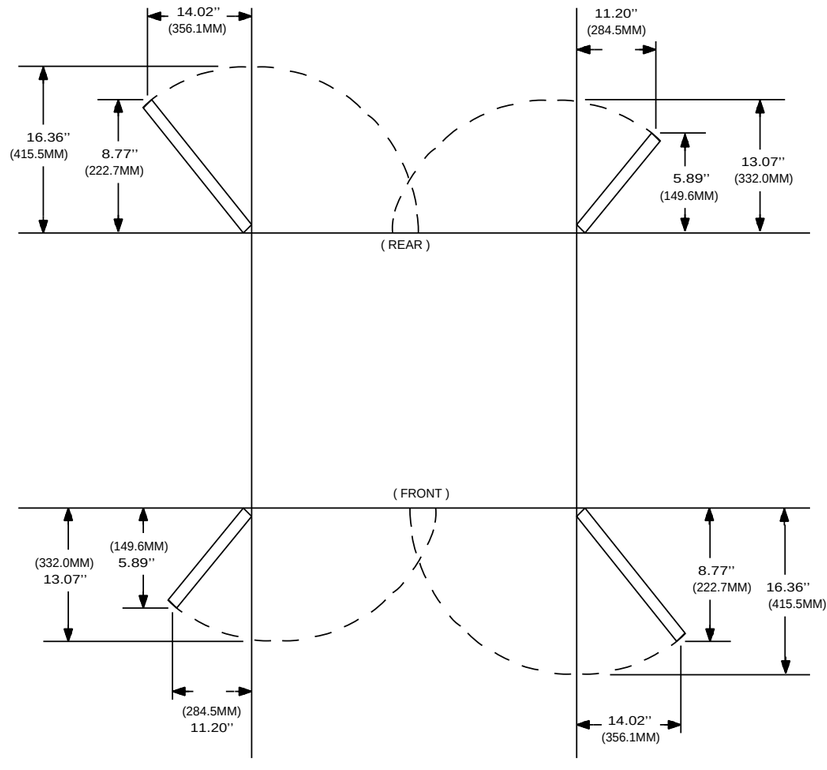

FIGURE 2

AWS/VCDX		DWG SIZE C2	ISSUE 6M
Lucent Technologies, Inc.	SD-5D519-01		SHEET B37

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P/O AS 60

RECOMMENDED WORK STATION & MCC

CONSOLE LAYOUT

FOR SPARC CLASSIC

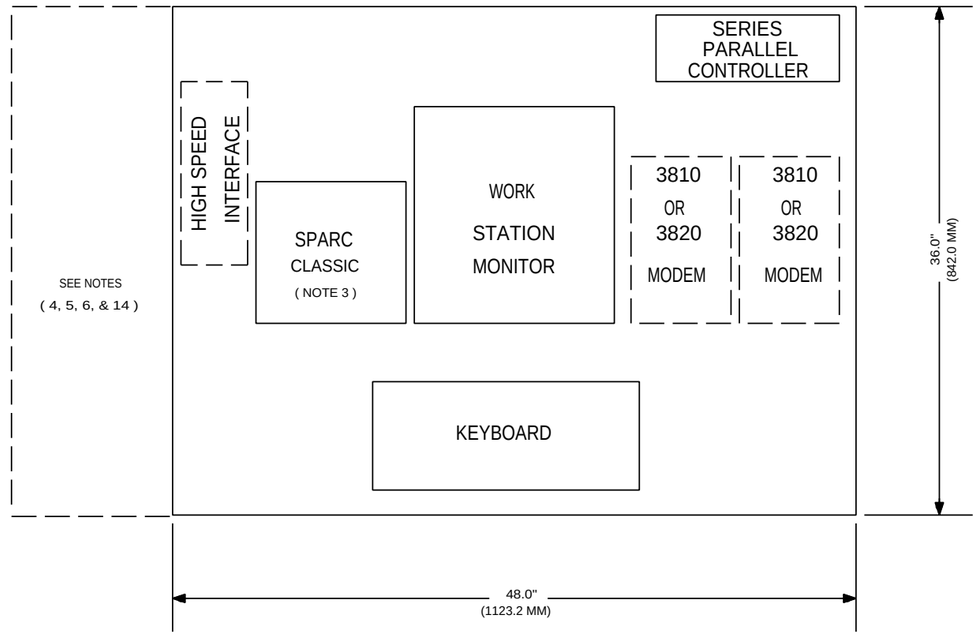

FIGURE 3

NOTES:

1) ROOM MUST BE LEFT BEHIND THE PERIPHERAL EQUIPMENT FOR CABLE ROUTING.

2) APPROXIMATELY 9" (210MM) IS REQUIRED BEHIND THE SPARCCLASSIC FOR CABLE ROUTING.

3) IT IS PERMISSIBLE TO STACK THE "TAPE UNIT" ON TOP OF THE "SPARCCLASSIC".

4) IT IS RECOMMENDED THAT THE PRINTER BE LOCATED ON A SEPARATE TABLE.

5) IF THE 577 PRINTER IS TO BE LOCATED ON THE SAME TABLE AS THE WORK STATION AND SPARCCLASSIC, THE LENGTH OF THE TABLE MUST BE INCREASED FROM 48.0" (1123.3MM) TO 72.0" (1684.8MM).

6) IF THE 6417 PRINTER IS TO BE LOCATED ON THE SAME TABLE AS THE WORK STATION AND SPARCCLASSIC, THE LENGTH OF THE TABLE MUST BE INCREASED FROM 48.0" (1123.3MM) TO 65.0" (1521.0MM).

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 CONVERTOR 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 CONVERTOR 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 - SPARCCLASSIC
- 1 - TAPE UNIT
- 2 - WORKSTATION
- 1 - PRINTER
- 1 - FOR EACH MODEM.

14) PROVISIONS MUST BE MADE FOR PRINTER PAPER STRORAGE AND ROUTING.

AWS/VCDX	DWG SIZE C2	ISSUE 6M
Lucent Technologies, Inc.	SD-5D519-01	SHEET B38

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RECOMMENDED WORK STATION & MCC

CONSOLE LAYOUT

FOR SPARC STATION 5

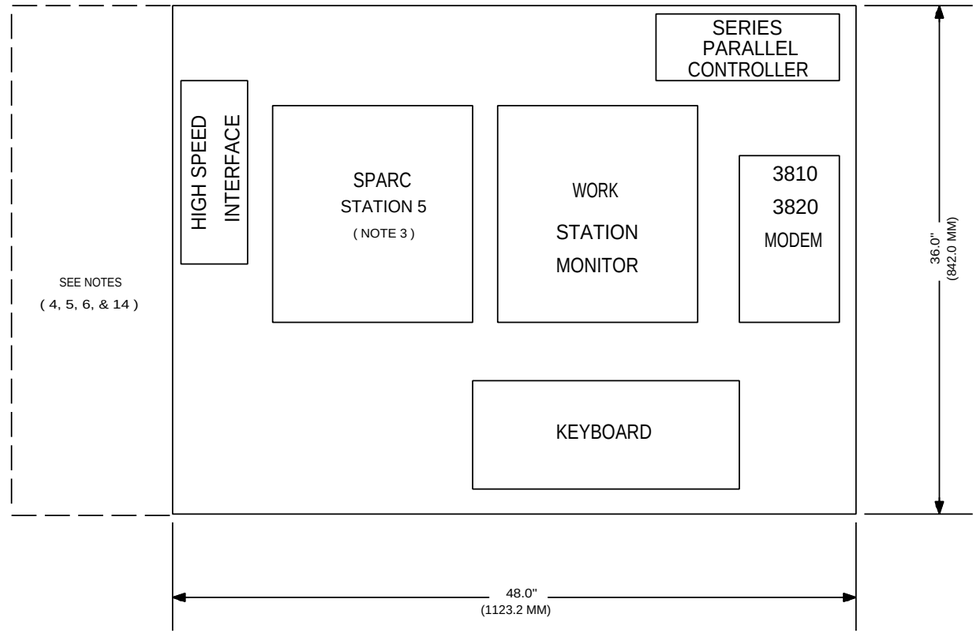

FIGURE 3

NOTES:

1) ROOM MUST BE LEFT BEHIND THE PERIPHERAL EQUIPMENT FOR CABLE ROUTING.

2) APPROXIMATELY 9" (210MM) IS REQUIRED BEHIND THE SPARCCLASSIC 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 ON A SEPARATE TABLE.

5) IF THE 577 PRINTER IS TO BE LOCATED ON THE SAME TABLE AS THE WORK STATION AND SPARCCLASSIC, THE LENGTH OF THE TABLE MUST BE INCREASED FROM 48.0" (1123.3MM) TO 72.0" (1684.8MM).

6) IF THE 6417 PRINTER IS TO BE LOCATED ON THE SAME TABLE AS THE WORK STATION AND SPARCCLASSIC, THE LENGTH OF THE TABLE MUST BE INCREASED FROM 48.0" (1123.3MM) TO 65.0" (1521.0MM).

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 CONVERTOR 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 CONVERTOR 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 STRORAGE AND ROUTING.

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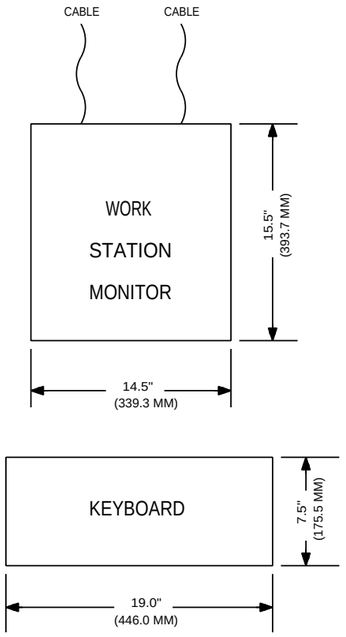
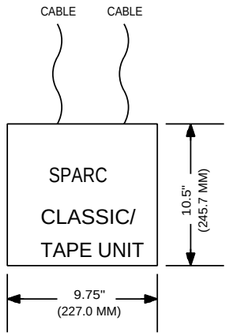
PERIPHERAL EQUIPMENT

DIMENSIONS



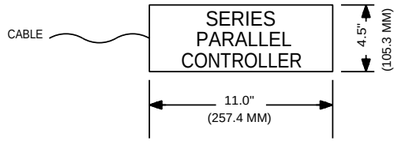
KS23996 (L1 &L5) WORK STATION WITH KEYBOARD

FIGURE 4



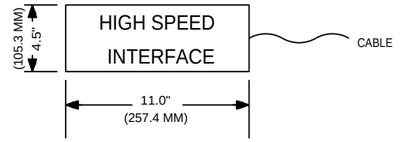
SPARC CLASSIC AND TAPE UNIT

FIGURE 5



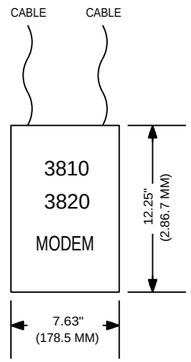
SERIES PARALLEL CONTROLLER

FIGURE 6



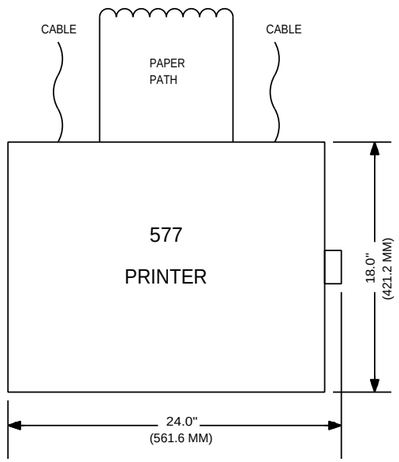
HIGH SPEED INTERFACE

FIGURE 7
(NOTE 7)



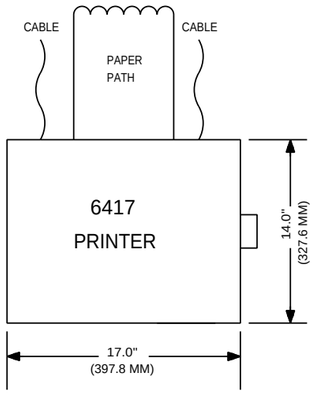
3810 & 3820 MODEMS

FIGURE 8
(NOTE 8)



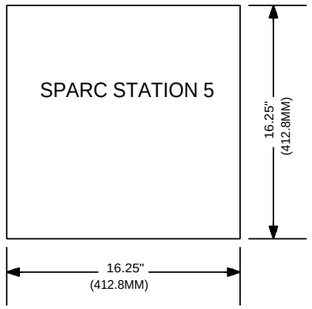
577 PRINTER

FIGURE 9



6417 PRINTER

FIGURE 10



SPARC STATION 5

FIGURE 11

AWS/VCDX	DWG SIZE C2	ISSUE 6M
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P/O AS 61

LINE AND TRUNK PERIPHERAL CABINET

(5ESS ® SWITCHING SYSTEM FLOORPLAN DATA)

TITLE	DWG NO.	AREA REQ'D	DESIGNATION	FLOORPLAN DETAIL
LINE AND TRUNK PERIPHERAL CABINET	J5D003F	SQ FT (SQ M) 10.96 1.02	LTP	CROSS SECTION: FIGURE 1 — DOOR SWING: FIGURE 2

WEIGHT LBS(KG)

655(297)

SYSTEM CABLE CROSS SECTION SQ IN (SQ CM)

SHIELD 1	SHIELD 3	SHIELD 4
—	5.5 (13.97)	0.7 (1.78)

LIMITING CONDUCTOR INFORMATION

PICB AND PIDB CABLING BETWEEN LTP CABINETS AND ASSOCIATED SMC CABINET MUST NOT EXCEED 20 FT. (6.0M).

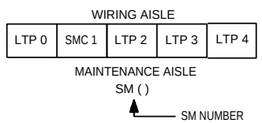
WHEN LTP CABINET IS EQUIPPED WITH A DLTU2, DLTU3, DLUTE OR CSU, IT MUST BE LOCATED WITHIN 655 CABLE FEET (200M) OF THE DSX BAY.

PLACEMENT RECOMMENDATIONS

THE PLACEMENT OF LTP CABINETS IS BASED ON THE LOCATION OF ASSOCIATED SMC CABINETS WHICH HAVE A FIXED POSITIONAL RELATIONSHIP WITH EACH OTHER.

NOTES:

1. LTP CABINETS ARE NUMBERED AS AN INTEGRAL PART OF A SWITCHING MODULE AS SHOWN. THE FIRST EQUIPPED LTP CABINET IS INSTALLED TO THE LEFT OF THE SMC AND IS DESIGNATED LTP0. ADDITIONAL LTP CABINETS ARE INSTALLED TO THE RIGHT OF THE ASSOCIATED SMC IN NUMERICAL ORDER AS VIEWED FROM THE FRONT OF MAINTENANCE AISLE. A MAXIMUM OF FOUR LTP CABINETS MAY BE EQUIPPED IN A SWITCHING MODULE.



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SWITCHING MODULE CONTROL CABINET

(5ESS® SWITCHING SYSTEM FLOORPLAN DATA)

TITLE	DWG NO.	AREA REQ'D	DESIGNATION	FLOORPLAN DETAIL
SWITCHING MODULE CONTROL CABINET	J5D003L	SQ FT (SQ M) 10.96 1.02	SMC	CROSS SECTION: FIGURE 1 DOOR SWING: FIGURE 2

WEIGHT LBS(KG)

565(256)

SYSTEM CABLE CROSS SECTION SQ IN (SQ CM)

SHIELD 1	SHIELD 3	SHIELD 4
0.2 (0.51)	1.0 (2.54)	0.8 (2.03)

LIMITING CONDUCTOR INFORMATION

WHEN AN SMC CABINET IS EQUIPPED WITH DLTU2, DLTU3, DLTUE, OR CSU, IT MUST BE LOCATED WITHIN 655 CABLE FEET (200M) OF THE DSX BAY.

PLACEMENT RECOMMENDATIONS

LOCATE AS NEAR AS POSSIBLE TO THE DISTRIBUTING FRAME END OF THE EQUIPMENT LINE-UP.

THE SMC MUST BE LOCATED ADJACENT TO ASSOCIATED LINE AND TRUNK PERIPHERAL CABINETS.

SEE LTP NOTES FOR TYPICAL INSTALLATION AND CABINET NUMBERING

NOTES:

AWS/VCDX

DWG SIZE: C2

ISSUE: 6M

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MISCELLANEOUS CABINET

(5ESS® SWITCHING SYSTEM FLOORPLAN DATA)

TITLE	DWG NO.	AREA REQ'D	DESIGNATION	FLOORPLAN DETAIL
MISCELLANEOUS CABINET	J5D005C	SQ FT (SQ M) 10.96 1.02	M	CROSS SECTION: FIGURE 1 DOOR SWING: FIGURE 2

WEIGHT LBS(KG)

650(295)

LIMITING CONDUCTOR INFORMATION

PLACEMENT RECOMMENDATIONS

THE RECOMMENDED PLACEMENT OF THE MISCELLANEOUS CABINET IS TO THE LEFT OF LTPO

SYSTEM CABLE CROSS SECTION SQ IN (SQ CM)

SHIELD 1	SHIELD 3	SHIELD 4
	1.4 (3.56)	0.7 (1.78)

NOTES:

1. MISCELLANEOUS CABINETS ARE NUMBERED SEQUENTIALLY STARTING WITH 00.

AWS/VCDX

DWG SIZE	ISSUE
C2	6M

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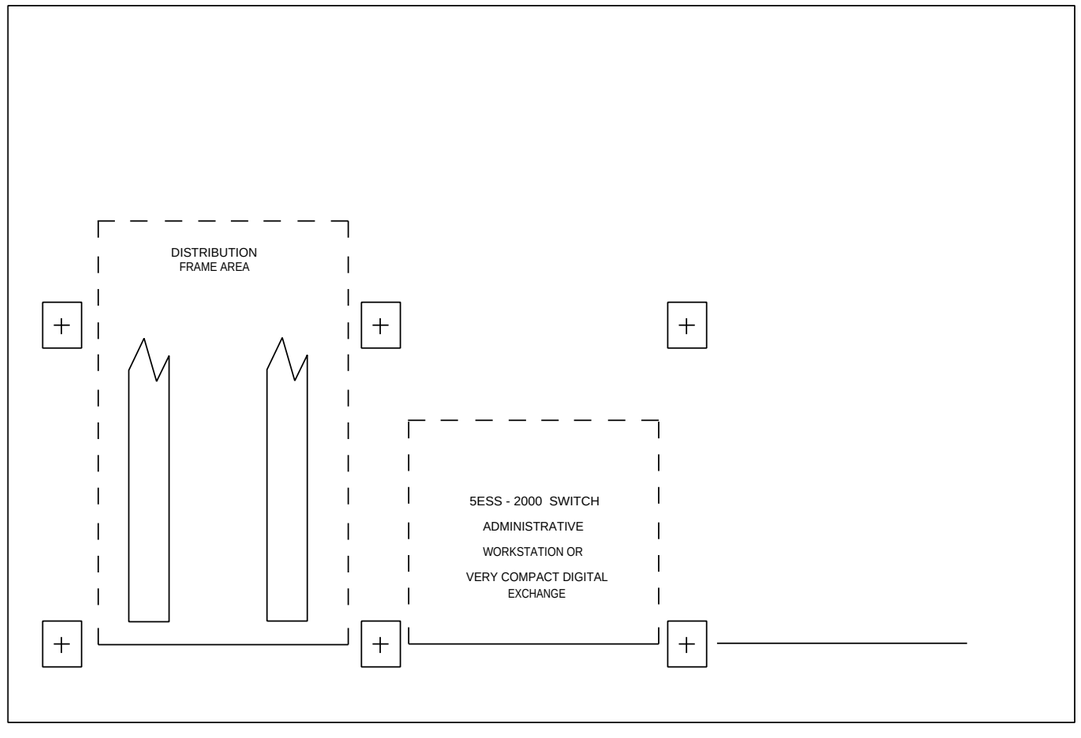
AS 62

TYPICAL FUNCTIONAL AREAS

NOTE :

1) CABLING TO THE DISTRIBUTION FRAME FROM THE SM IS LIMITED TO MAXIMUN OF 300 FEET.



AWS/VCDX		DWG SIZE C2	ISSUE 6M
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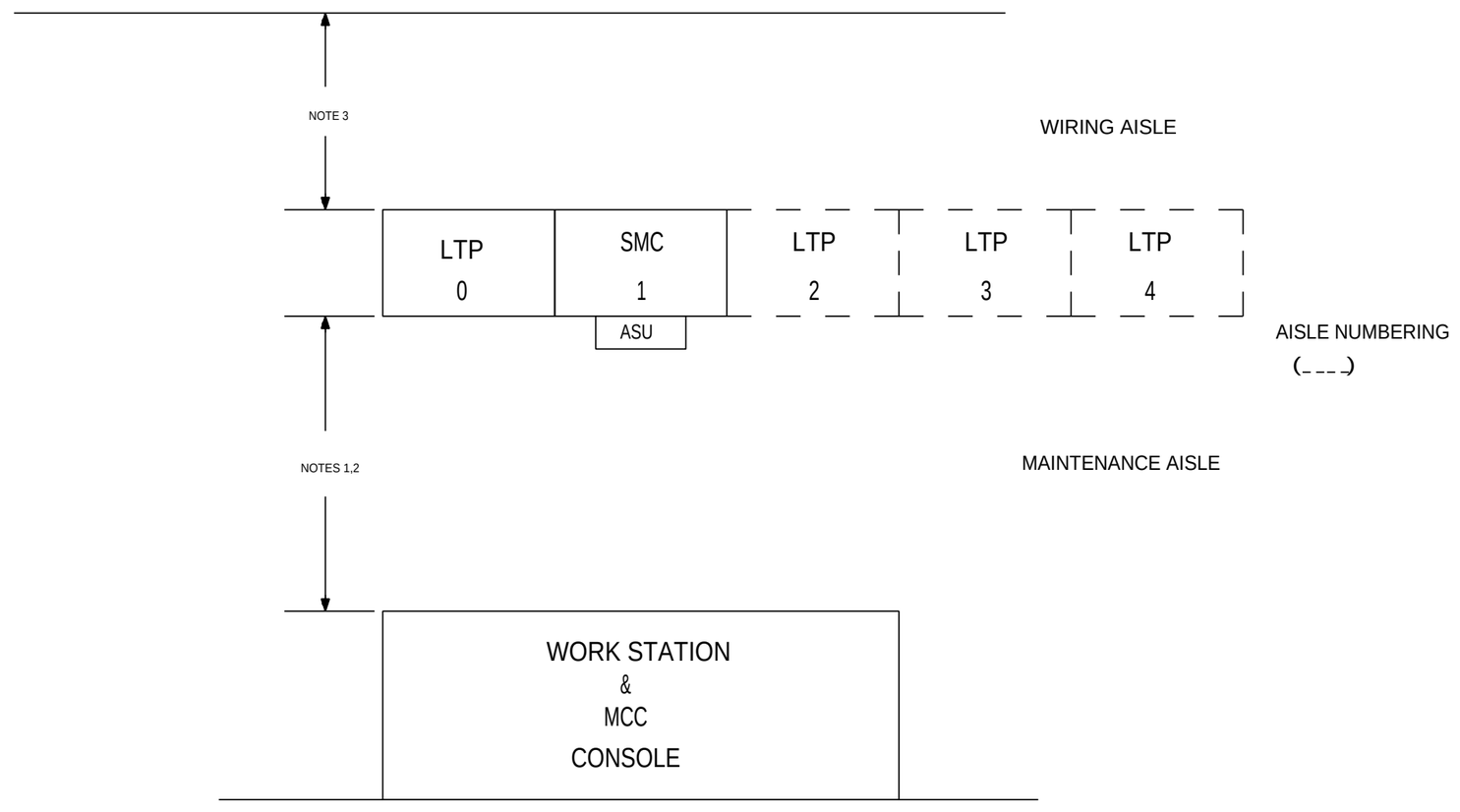
AISLE SPACING
AND
NUMBERING
AWS APPLICATIONS



NOTES:

1) A MINIMUM MAINTENANCE AISLE WIDTH OF 2-10 (864MM) IS REQUIRED. IN APPLICATIONS IN WHICH THE WORK STATION AND MCC CONSOLE IS LOCATED IN FRONT OF THE CABINET LINE-UP, A MINIMUM 4-0 (1129MM) MAINTENANCE AISLE IS REQUIRED.

2) A MINIMUM MAINTENANCE AISLE WIDTH OF 2-10 (864MM) IS REQUIRED IN FRONT OF THE ALARM STATUS UNIT (ASU).

3) A MINIMUM WIRING AISLE WIDTH OF 2-0 (610MM) IS REQUIRED.

4) A MINIMUM GAP OR SPACING OF 2 INCHES (51MM) SHOULD BE MAINTAINED BETWEEN EQUIPMENT ON ESS GROUND AND EQUIPMENT ON BUILDING GROUND.

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 LOCAL ADDITIONAL DETAILS. END AISLE SPACING ALONG THE DISTRIBUTING FRAME AREA IS SPECIFIED IN FPD 801-005-164. A MINIMUM END AISLE OF 3-0 (914MM) IS RECOMMENDED IN GENERAL, A MINIMUM OF 4-0 (1129MM) IS REQUIRED BETWEEN 5ESS AND ALL OTHER FRAMEWORKS. THE FOLLOWING RECOMMENDED EXCEPTIONS MAY BE MADE TO MEET SPECIFIC APPLICATIONS REQUIREMENTS.

   MINIMUM 2-0 (610MM)
   1. 5ESS EQUIPMENT IN 6 FT. HIGH CABINET OR FRAMES
   2. CARRIER EQUIPMENT
   3. CUSTOMER PREMISE EQUIPMENT
   4. STEP BY STEP
   5. NO. 5 CROSS BAR
   6. POWER EQUIPMENT
   7. OTHER ESS

   MINIMUM 8-0 (2440MM) FROM MICROWAVE RADIO/WAVE GUIDE.

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

6) THE FIRST TWO DIGITS OF THE AISLE NUMBER REPRESENT THE FLOOR NUMBER. THE SECOND TWO DIGITS OF THE AISLE NUMBER REPRESENT THE MAINTENANCE AISLE.

7) FLOOR NUMBERING 00, REPRESENTS THE BASEMENT LEVEL WITH 0A, 0B, ETC. INDICATING LOWER LEVELS AND 01, 02 ETC. REPRESENTS THOSE FLOORS ABOVE THE BASEMENT.

8) WIRING AISLES ARE NOT NUMBERED.

9) THE WORK STATION & MCC CONSOLE MAY BE LOCATED ADJACENT TO THE CABINET LINE - UP.

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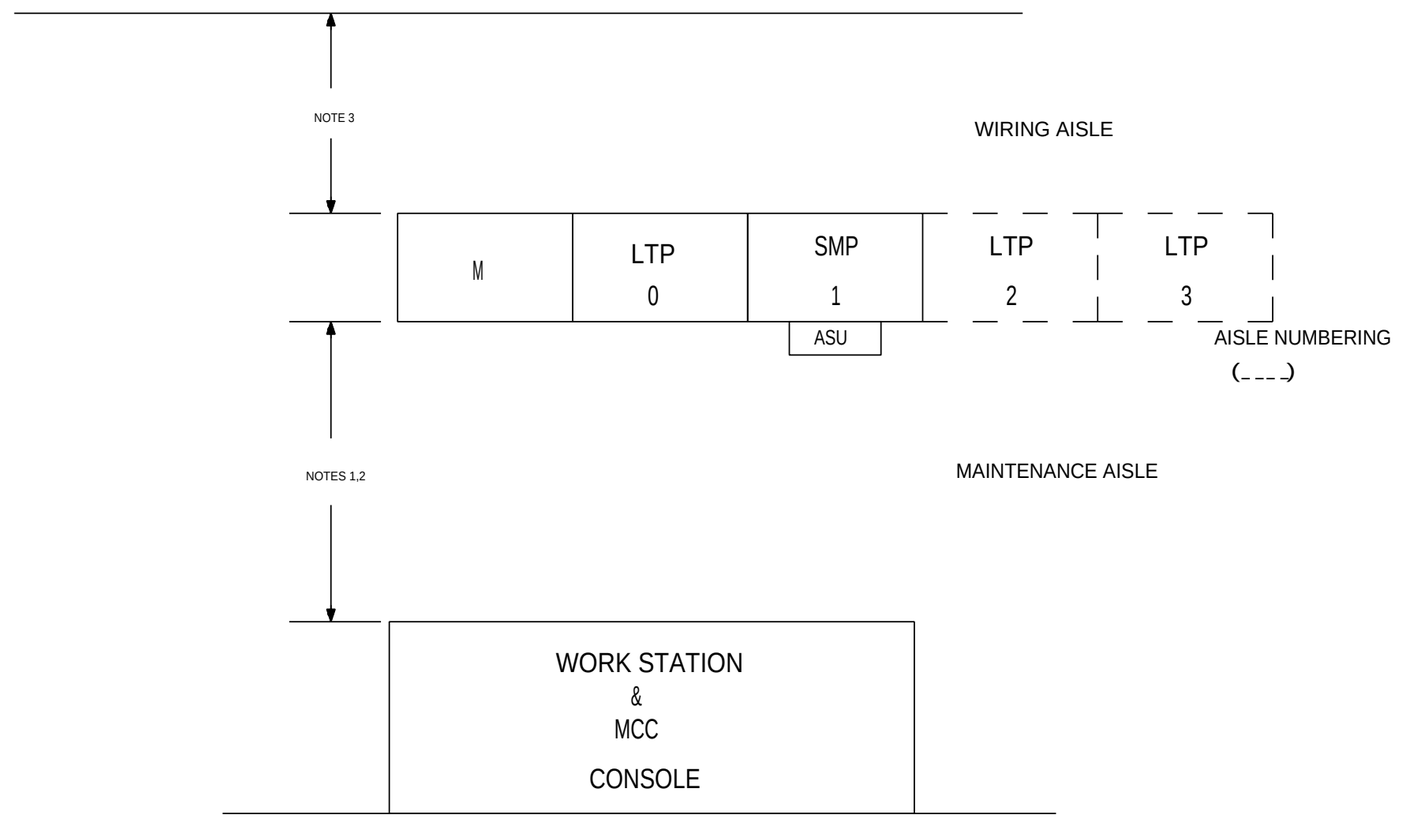
AISLE SPACING
AND
NUMBERING
VCDX APPLICATIONS



NOTES:

1) A MINIMUM MAINTENANCE AISLE WIDTH OF 2-10 (864MM) IS REQUIRED. IN APPLICATIONS IN WHICH THE WORK STATION AND MCC CONSOLE IS LOCATED IN FRONT OF THE CABINET LINE-UP, A MINIMUM 4-0 (1129MM) MAINTENANCE AISLE IS REQUIRED.

2) A MINIMUM MAINTENANCE AISLE WIDTH OF 2-10 (864MM) IS REQUIRED IN FRONT OF THE ALARM STATUS UNIT (ASU).

3) A MINIMUM WIRING AISLE WIDTH OF 2-0 (610MM) IS REQUIRED.

4) A MINIMUM GAP OR SPACING OF 2 INCHES (51MM) SHOULD BE MAINTAINED BETWEEN EQUIPMENT ON ESS GROUND AND EQUIPMENT ON BUILDING GROUND.

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 LOCAL ADDITIONAL DETAILS. END AISLE SPACING ALONG THE DISTRIBUTING FRAME AREA IS SPECIFIED IN FPD 801-005-164. A MINIMUM END AISLE OF 3-0 (914MM) IS RECOMMENDED IN GENERAL, A MINIMUM OF 4-0 (1129MM) IS REQUIRED BETWEEN 5ESS AND ALL OTHER FRAMEWORKS. THE FOLLOWING RECOMMENDED EXCEPTIONS MAY BE MADE TO MEET SPECIFIC APPLICATIONS REQUIREMENTS.

   MINIMUM 2-0 (610MM)
   1. 5ESS EQUIPMENT IN 6 FT. HIGH CABINET OR FRAMES
   2. CARRIER EQUIPMENT
   3. CUSTOMER PREMISE EQUIPMENT
   4. STEP BY STEP
   5. NO. 5 CROSS BAR
   6. POWER EQUIPMENT
   7. OTHER ESS

   MINIMUM 8-0 (2440MM) FROM MICROWAVE RADIO/WAVE GUIDE.

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

6) THE FIRST TWO DIGITS OF THE AISLE NUMBER REPRESENT THE FLOOR NUMBER. THE SECOND TWO DIGITS OF THE AISLE NUMBER REPRESENT THE MAINTENANCE AISLE.

7) FLOOR NUMBERING 00, REPRESENTS THE BASEMENT LEVEL WITH 0A, 0B, ETC. INDICATING LOWER LEVELS AND 01, 02 ETC. REPRESENTS THOSE FLOORS ABOVE THE BASEMENT.

8) WIRING AISLES ARE NOT NUMBERED.

9) THE WORK STATION & MCC CONSOLE MAY BE LOCATED ADJACENT TO THE CABINET LINE - UP.

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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 CABLE TROUGHS, AND EQUIPMENT SUPPORT LIGHTING MAY BE APPROXIMATED AT 25 POUNDS (11.34 KG) PER FOOT SQUARED DISTRIBUTED OVER 5ESS EQUIPMENT.

152) ALL DIMENSION 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 DIMENSION 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 PRACTICE 760-230-101 AND LUCENT TECHNOLOGIES PRACTICE 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(WATTS) = I(AMPS) X E(VOLTS).

157) FOR GUIDANCE IN PLANNING OF THE BUILDING MECHANICAL SYSTEM FOR DISSIPATING THE HEAT GENERATED IN THE TYPICAL SYSTEM FLOORPLANS, CONSULT LUCENT TECHNOLOGIES PRACTICE 760-230-101 AND LUCENT TECHNOLOGIES PRACTICE 760-550-260.

158) THE FOLLOWING FORMULA WAS USED FOR CALCULATING AREA REQUIREMENTS FOR THE CABINET:

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)

A = [D +((M+W)/2) X L

159) THE FOLLOWING METHOD WAS USED TO CALCULATE AREA REQUIREMENTS FOR THE WORK STATION CONSOLE:

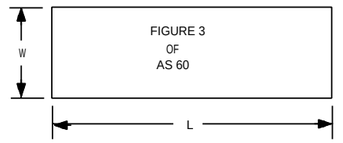

FIGURE 3
OF
AS 60

A = (W + 4 FT.) X 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-63 "AISLE SPACING AND NUMBERING".

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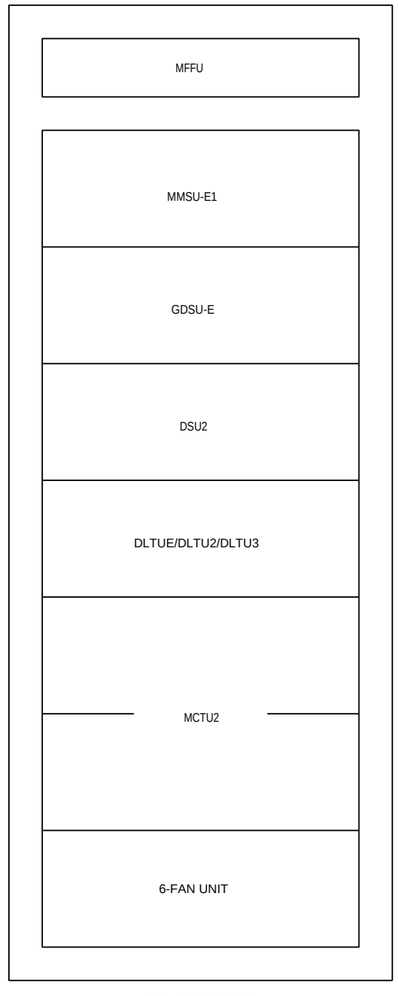
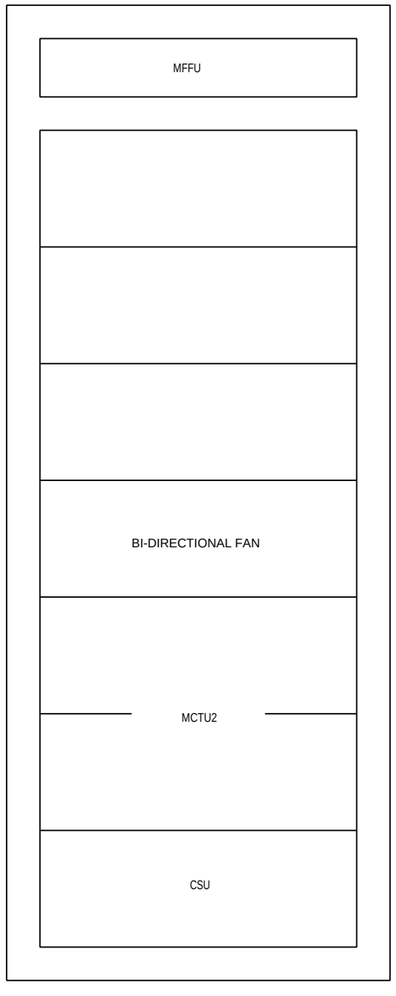
EQUIPMENT NOTES:

201A. STANDARD SMC CONFIGURATIONS FOR AWS APPLICATIONS.



AWS APPLICATIONS



AWS APPLICATIONS

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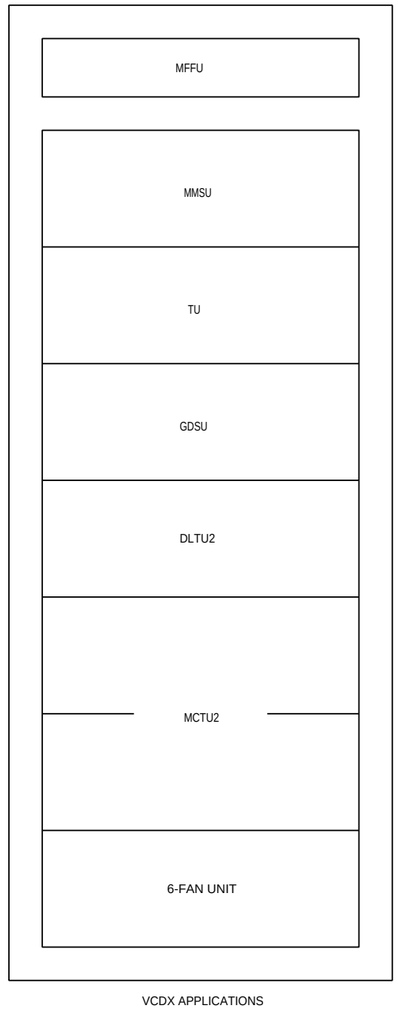
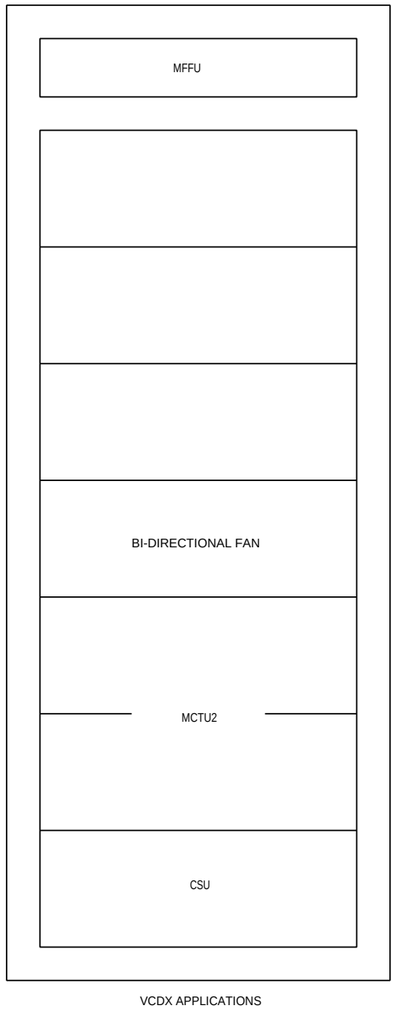
EQUIPMENT NOTES (CONT):

201B. STANDARD SMC CONFIGURATION FOR VCDX APPLICATIONS.



VCDX APPLICATIONS



VCDX APPLICATIONS

AWS/VCDX	DWG SIZE C2	ISSUE 6M
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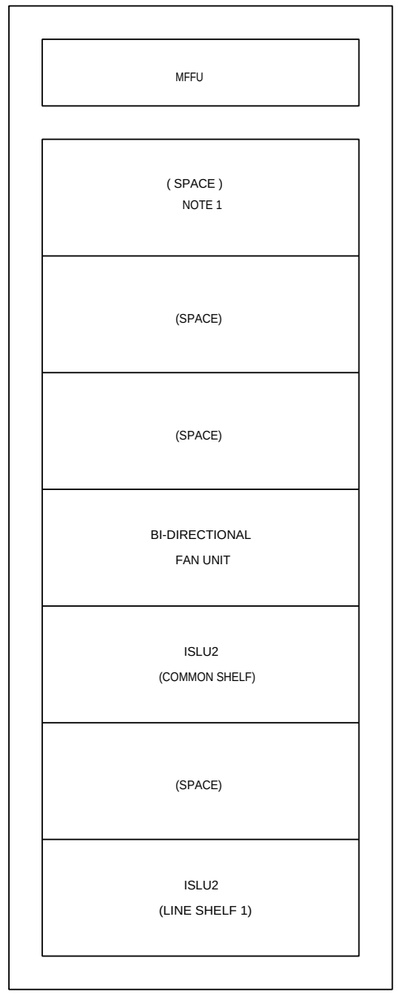
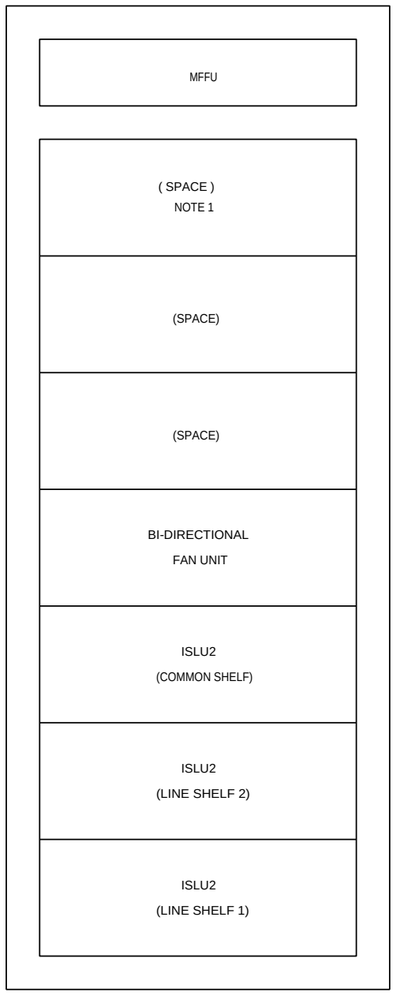
EQUIPMENT NOTES: (CONT.)

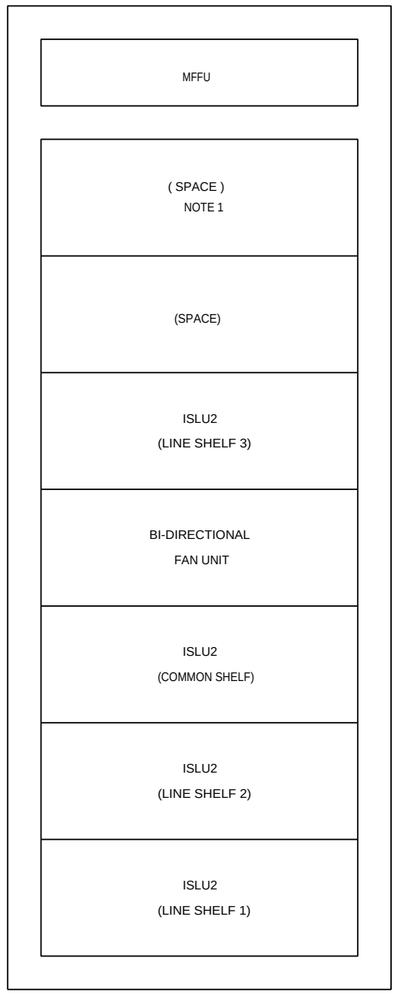
202A. STANDARD LTP CONFIGURATIONS FOR AWS APPLICATIONS.



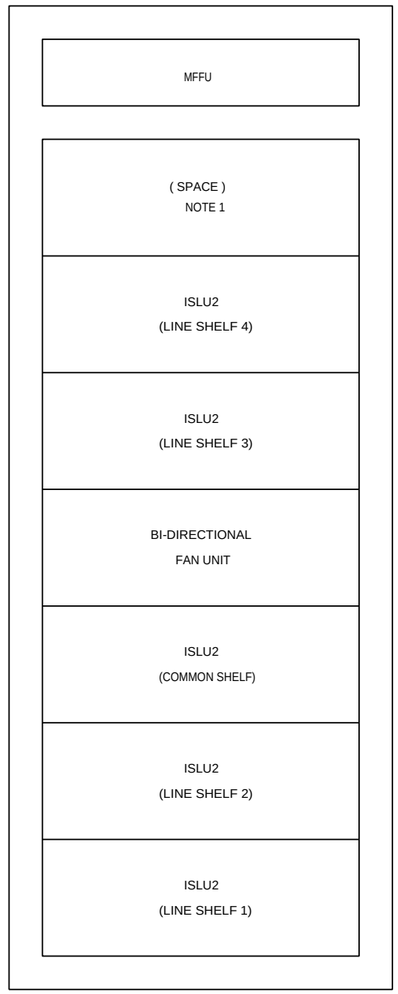
AWS APPLICATIONS



AWS APPLICATIONS



AWS APPLICATIONS



AWS APPLICATIONS

NOTE :

1. WHEN A PSU IS REQUIRED IT WILL BE MOUNTED IN THIS LOCATION.

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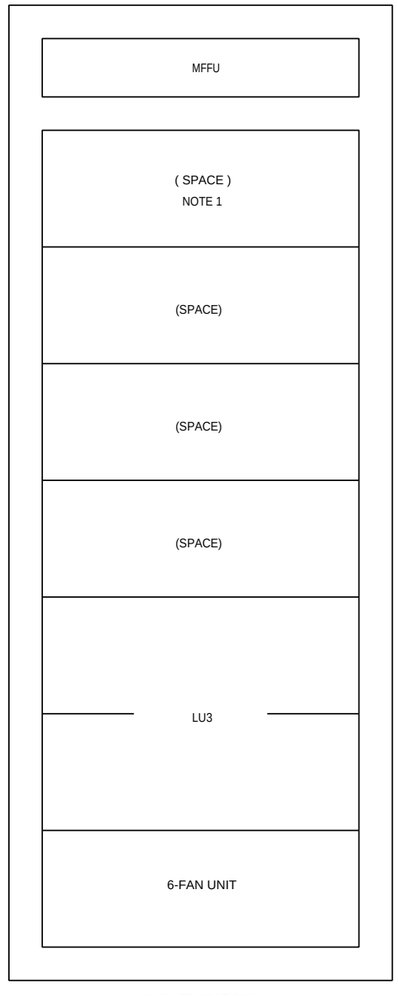
EQUIPMENT NOTE:

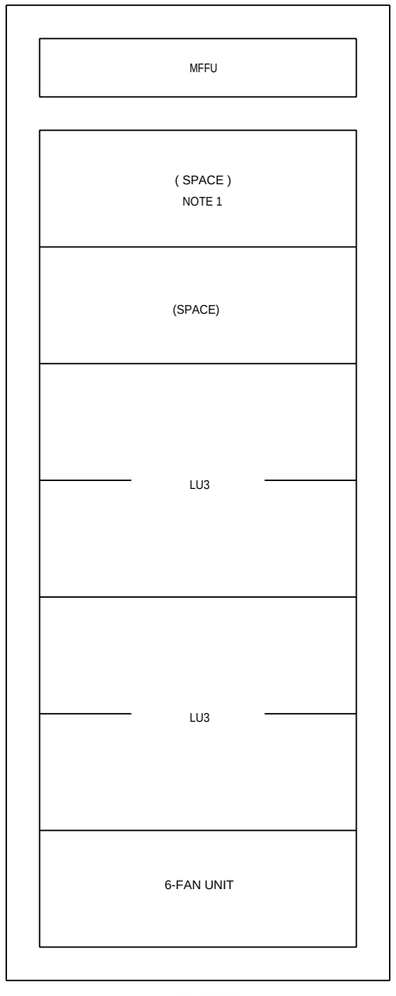
202A. (CONT.)

NOTE :

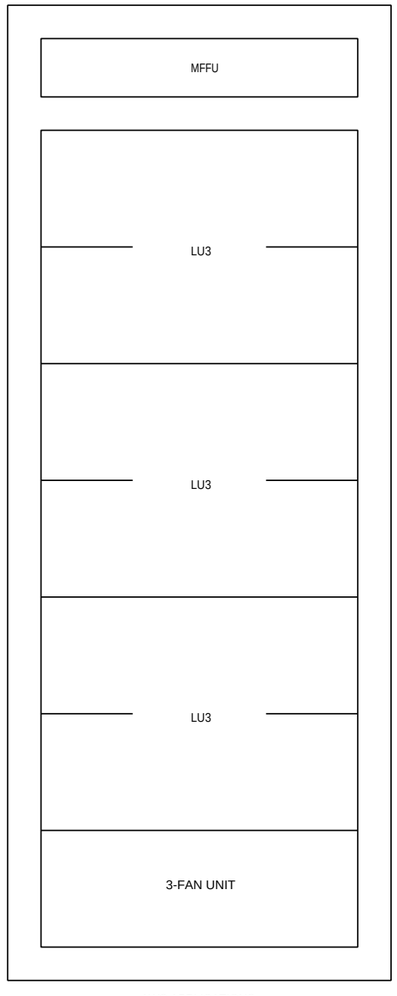
1. WHEN A PSU IS REQUIRED IT WILL BE MOUNTED IN THIS LOCATION.



AWS APPLICATIONS



AWS APPLICATIONS



AWS APPLICATIONS

AWS/VCDX

DWG SIZE C2

ISSUE 6M

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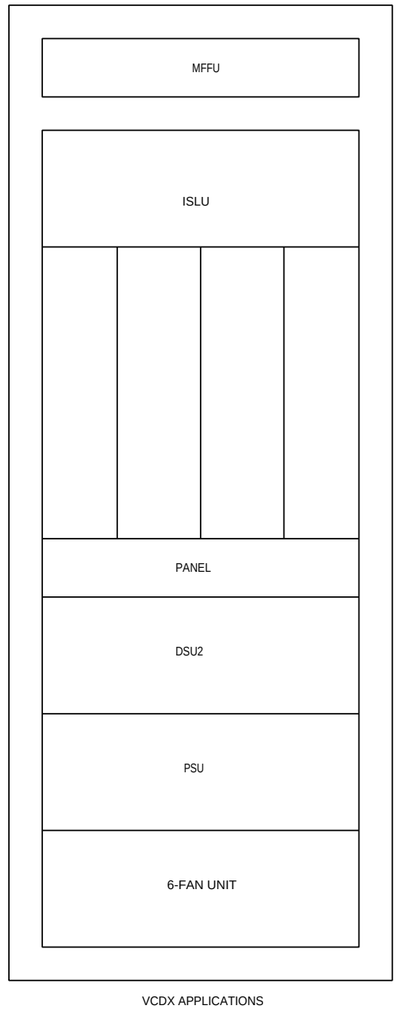
EQUIPMENT NOTE (CONT):

202B. STANDARD LTP CONFIGURATION FOR VCDX APPLICATIONS.



VCDX APPLICATIONS

AWS/VCDX

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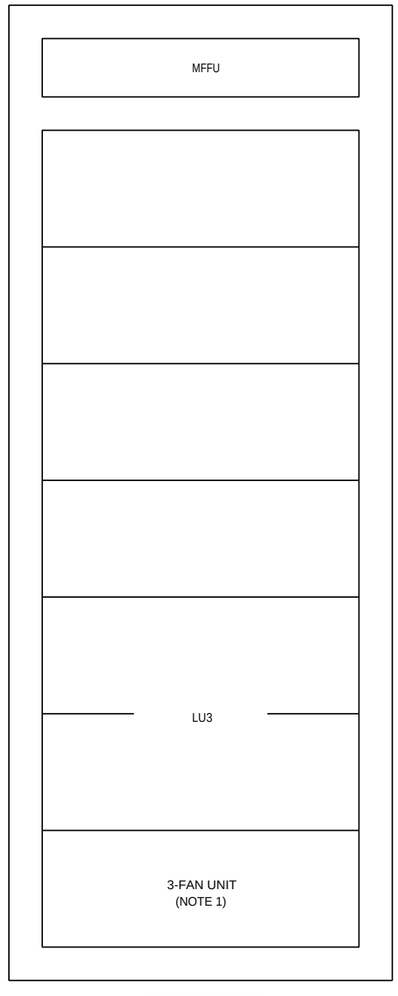
EQUIPMENT NOTE (CONT):

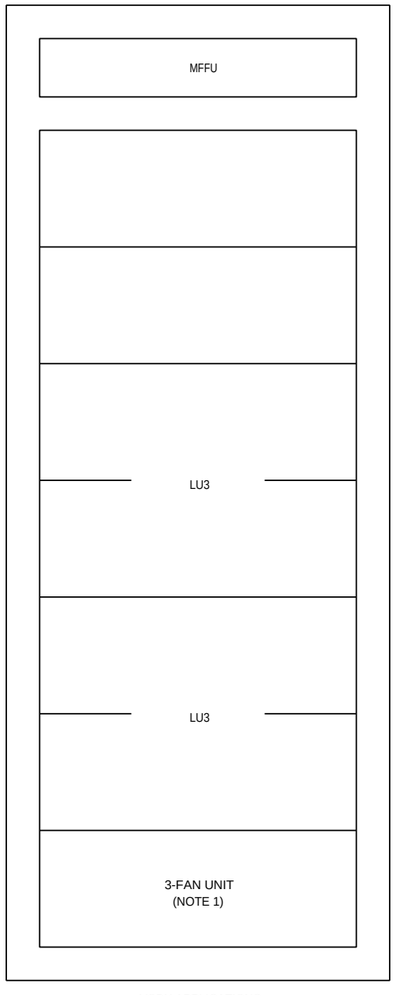
202B. (CONT.)

NOTE:

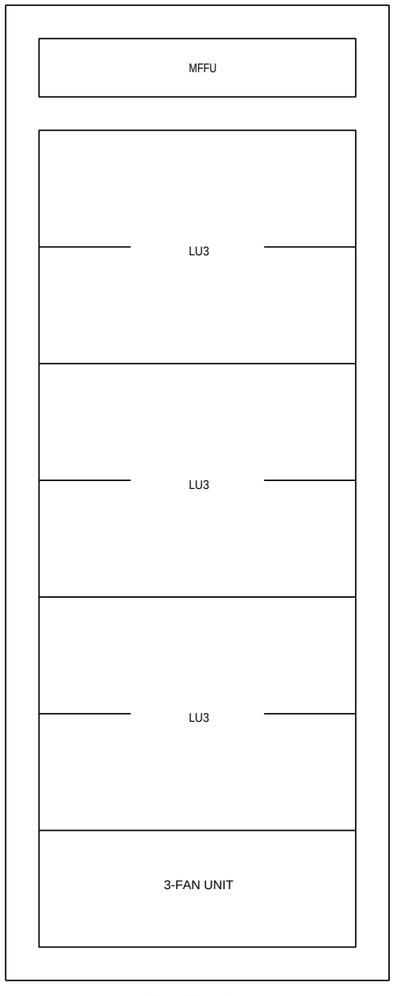
1. IF A PSU IS MOUNTED IN THE CABINET, A 6-FAN UNI WILL BE USED IN PLACE OF THE 3-FAN UNIT.



VCDX APPLICATIONS



VCDX APPLICATIONS



VCDX APPLICATIONS

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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 SUN MICROSYSTEMS	SPARC CLASSIC		720
PRELIMINARY DATA SHEETS 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 (220 VAC)		144
AT&T USER GUIDE	577 PRINTER		140
COMSPHERE 3800 SERIES MODEMS, USER GUIDE	3810 MODEM	SINGLE MODEM	5.25
COMSPHERE 3800 SERIES MODEMS, USER GUIDE	3820 MODEM	SINGLE MODEM	5.25
UL LABEL ON PRINTER	6417 PRINTER		105
SPARC STATION 5 PRODUCT BOOK	SPARC STATION 5		230

205. ALARMS FOR THE AWS ARE PROVIDED BY THE MMSU-E1 OR CSU. ALARMS FOR THE VCDX ARE PROVIDED BY THE MMSU OR CSU. THE FOLLOWING SCAN AND SD POINTS ARE REQUIRED AND MUST BE DUPLICATED BETWEEN TWO MMSU-E1/MMSU/CSU SERVICE GROUPS WITH IDENTICAL HEX SD PORT NUMBERS ASSIGNED. ACTUAL ASSIGNMENT OF THE 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
ESM ALARM		DISTRIBUTING FRAME (VCDX ONLY)
ESM POWER		DISTRIBUTING FRAME (VCDX ONLY)
INVERTER FAIL		INVERTER VIA MDF
INVERTER X-FER		INVERTER VIA MDF

SCAN POINT REQUIREMENTS

DESCRIPTION	LEAD DESIGNATION	DESTINATION
BUILDING POWER	( )BLDPWR( )	ALARM STATUS UNIT VIA MDF
TEST IN PROGRESS	"TSTPRG"	ALARM STATUS UNIT VIA MDF
TIMER 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

206. FOR GENERAL ASSIGNMENT RULE INFORMATION ON THE EQUIPMENT ASSOCIATED WITH THE SMC AND LTP, REFERENCE THE SD5D007-01 (5ESS ASSIGNMENT RULES).

207. REFERENCE ED-5D693-10 FOR FUSE LABLING INFORMATION ON THE MFFU .

208. IT IS RECOMMENDED THAT A DALLAS POWER PLANT BE USED TO PROVIDE -48V DC, -48V POWER DISTRIBUTION AND PROTECTED AC . THE BASE CODE OF THE RECOMMENDED DALLAS POWER PLANT IS H569 - 414 . OPTIONS ARE AVAILABLE ON THE H569 - 414 POWER PLANT TO PROVIDE VARIOUS BATTERY TYPES, BATTERY BACKUP TIMES, ETC. .

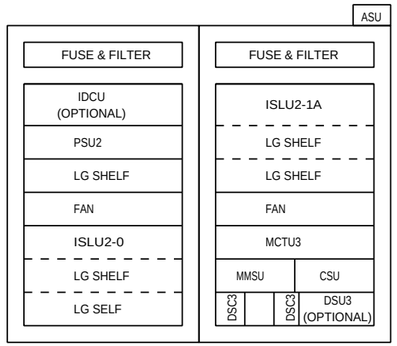
209. THE ADMINISTRATIVE WORKSTATION COMES WITH 48 MBYTE RAM AND WITH A 1.05 GBYTE INTERNAL DISK.

EQUIPMENT NOTES: (CONT.)

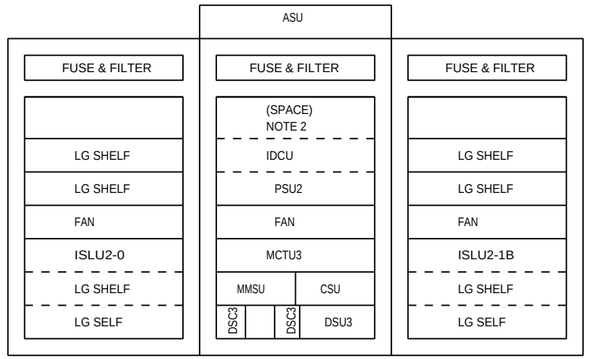
210. AIR EXTENSION - WIRELESS NETWORK CONTROLLER (WNC) CONFIGURATION. (SEE BD1)

NOTES:

1. CAN ONLY BE SUPPORTED USING THE 5E11 SOFTWARE RELEASE.
2. WHEN A ISLU2-1A IS REQUIRED IT WILL BE MOUNTED IN THIS LOCATION.

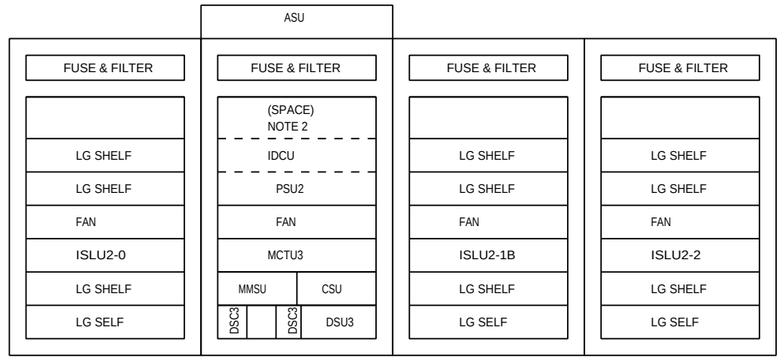


CONFIGURATION: 1
"FIELD TRIAL"



CONFIGURATION: 2

RELEASE 1 WNC CONFIGURATION (2 LTPS)
2048 W-CARD LINES (5E10)



CONFIGURATION: 3

RELEASE 1 (RESIDENTIAL) WNC CONFIGURATION (3LTP'S)
3072 W-CARD LINES (5E11)
SEE NOTE 1

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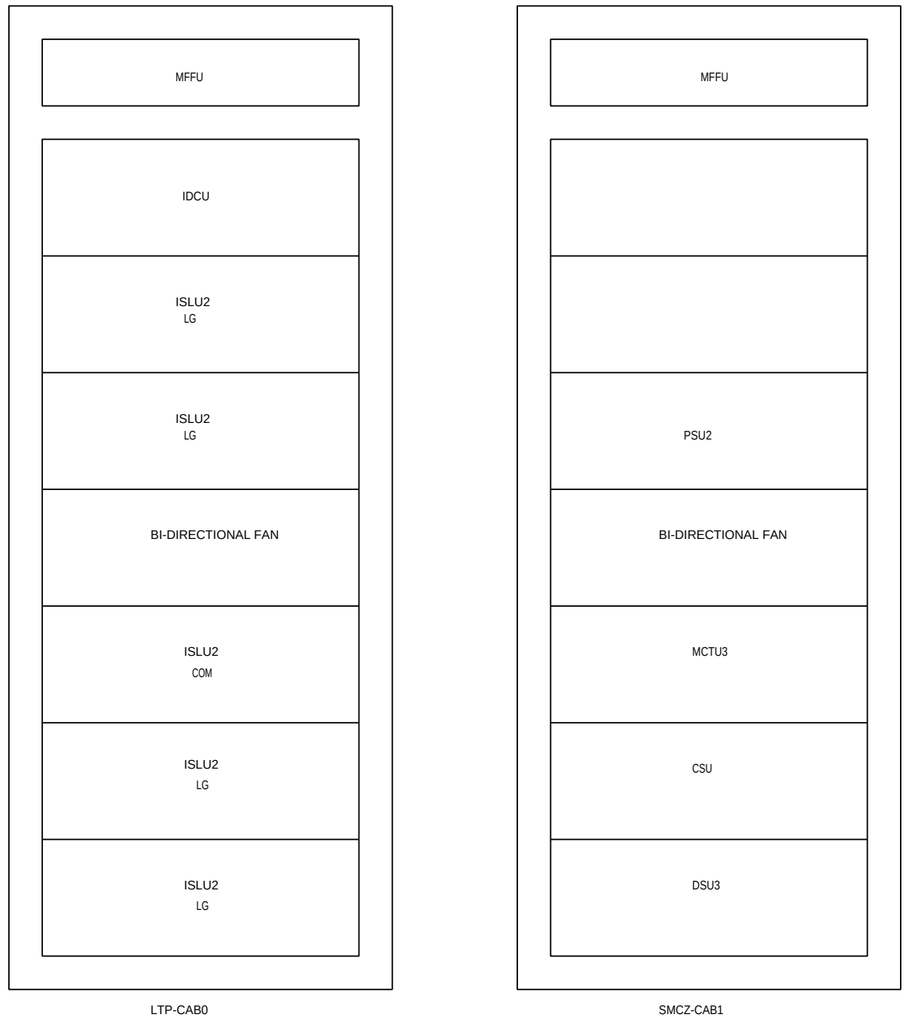
EQUIPMENT NOTES: (CONT.)

210. AIR EXTENSION - WIRELESS NETWORK CONTROLLER (WNC) CONFIGURATION, (SEE BD1)



AWS/VCDX

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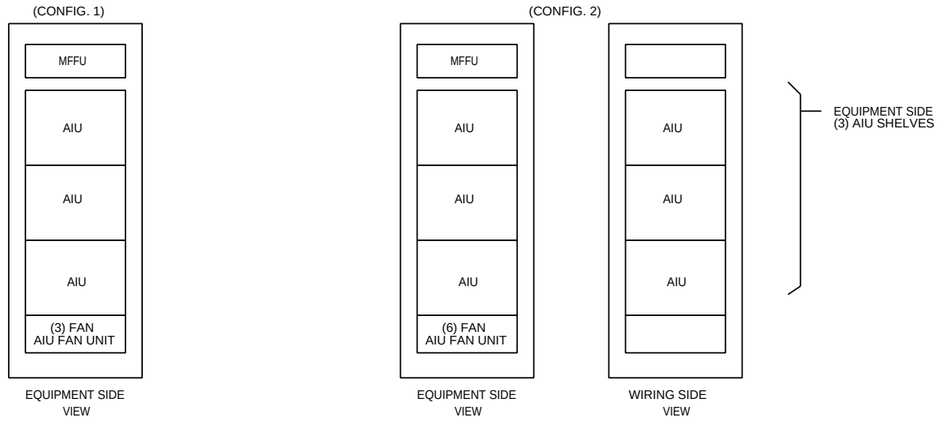
EQUIPMENT NOTES(CONT.)

211. AIU CAN BE OBTAINED IN TWO CONFIGURATIONS ONLY

1. (3) AIU SHELVES IN A 21.00" DEPTH STANDARD CABINET OR A STANDARD 2000 CABINET.

2. (6) AIU SHELVES IN THE AIU CABINET.



AWS/VCDX

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INFORMATION NOTES:

301. UNLESS OTHERWISE SPECIFIED:
RESISTANCE VALUES ARE IN OHMS
CAPACITANCE VALUES ARE IN MICROFARADS
VALUES PRECEEDED 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).

302.

FEATURE OR OPTION	PROVIDE		
	APP FIG	APP OR WRG	QUANTITY
SWITCHING MODULE CONTROL CABINET E/W THE MCTU2 AND 6 FAN UNIT OR BI-DIRECTIONAL FAN UNIT	2		1 PER OFFICE
LINE TRUNK PERIPHERAL CABINET WITH (3 FAN / 6 FAN / BI - DIRECTIONAL FAN) UNIT	3		AS REQUIRED (MINIMUM OF 1 PER OFFICE)
DIGITAL LINE TRUNK UNIT MODEL 2 (DLTU2)	4		AS REQUIRED
DIGITAL SERVICE UNIT MODEL 2 (DSU2)	5		AS REQUIRED
GLOBEL DIGITAL SERVICE UNIT - EXPORT (GDSU-E)	6		AS REQUIRED (AWS APPL. ONLY)
INTEGRATED SERVICE LINE UNIT MODEL 2 (ISLU2)	7		AS REQUIRED (AWS APPL. ONLY)
LINE UNIT MODEL 3 (LU3)	8		AS REQUIRED
MODULAR METALLIC SERVICE UNIT - MODEL 1 (MMSU - E1)	9		AS REQUIRED (AWS APPL. ONLY)
PACKET SWITCH UNIT (PSU)	10		AS REQUIRED
PERIDOC PULSE METERING UNIT (PPMU)	11		AS REQUIRED (AWS APPL. ONLY)
DIGITAL LINE TRUNK UNIT EXPORT (DLTUE)	12		AS REQUIRED (AWS APPL. ONLY)
DIGITAL LINE TRUNK UNIT MODEL 3 (DLTU3)	13		AS REQUIRED (AWS APPL. ONLY)
GLOBAL DIGITAL SERVICE UNIT (GDSU)	14		AS REQUIRED (VCDX APPL. ONLY)
MODULAR METALLIC SERVICE UNIT (MMSU)	15		AS REQUIRED (VCDX APPL. ONLY)

INFORMATION NOTES (CONT):

302. (CONT)

FEATURE OR OPTION	PROVIDE		
	APP FIG	APP OR WRG	QUANTITY
TRUNK UNIT (TU)	16		AS REQUIRED (VCDX APPL. ONLY)
INTEGRATED SERVICES LINE UNIT (ISLU)	17		AS REQUIRED (AWS APPL. ONLY)
COMBINED SERVICES UNIT (CSU)	18		AS REQUIRED
POWER DISTRIBUTION PANEL	35		AS REQUIRED (VCDX APPL. ONLY)
RESISTOR PANEL	36		AS REQUIRED (VCDX APPL. ONLY)
15A ANNOUNCEMENT SYSTEM	37		AS REQUIRED (VCDX APPL. ONLY)
EXTERNAL SANITY MONITOR (ESM)	38		AS REQUIRED (VCDX APPL. ONLY)
INVERTER	39		AS REQUIRED (VCDX APPL ONLY)
WORKSTATION	50		1 PER OFFICE
ALARM STATUS UNIT (ASU)	51		1 PER OFFICE

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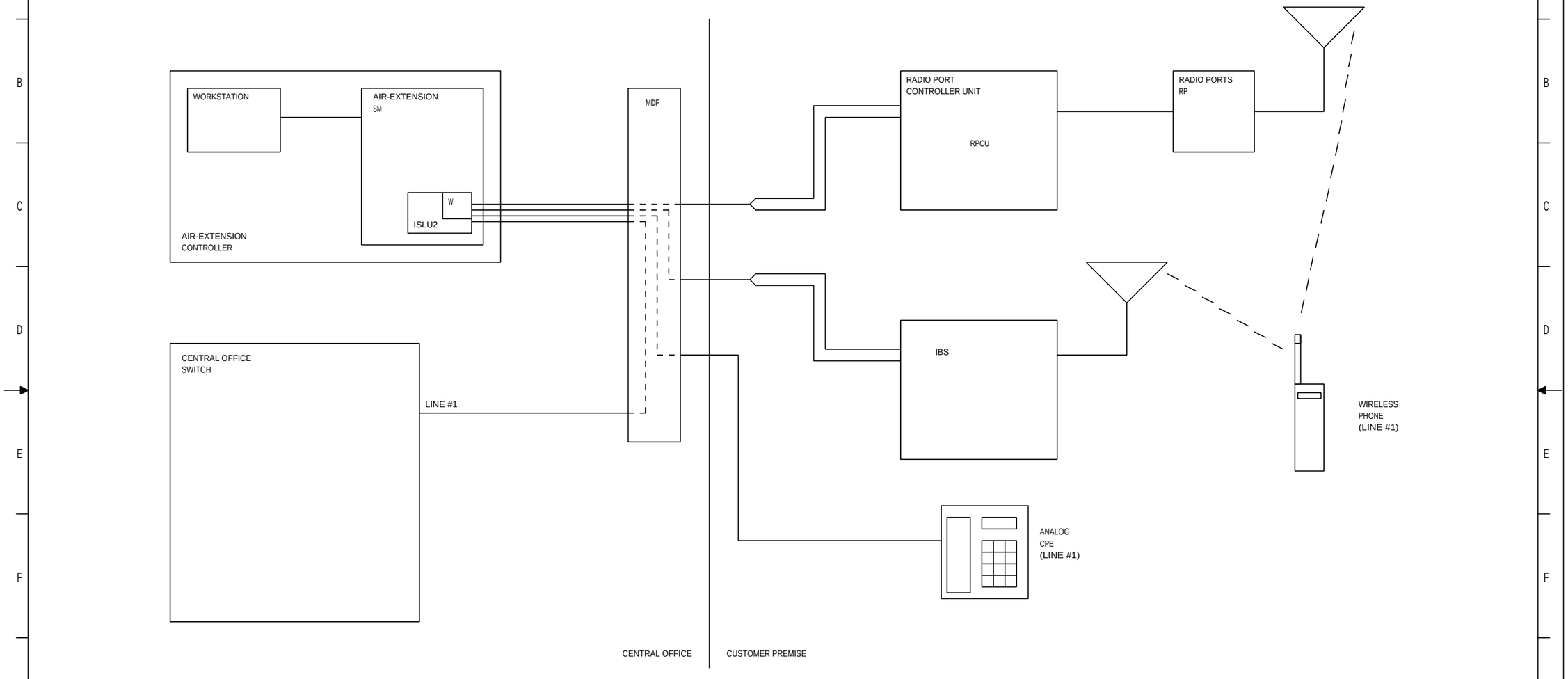
BD 1

AIR EXTENSION ARCHITECTURE



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		C2	6M
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