

0 1 2 3 4 5 6 7 8 9

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V	AVAIL 3	203, 206	CAD 7, BD 5
U	AVAIL 3	203, 206	CAD 8, BD 5
T	AVAIL 3	203, 206	CAD 8A, BD 5
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APP OR WRG	RATED ON ISSUE	REF NOTES	LOCATION
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XX	9	253	CAD 33
WW	9	253	CAD 9
ZA	13	245, 253	CAD 34

DWG ISS	CD ISS	DWG ISS	CD ISS	DWG ISS	CD ISS
1	1 APPX -	2A	1 APPX 1A	3A	1 APPX 2A
4A	1 APPX 3A	5B	1 APPX 4B	6B	1 APPX 5B
7A	1 APPX 6A	8M	1 APPX 7M	9B	1 APPX 8B
10M	2M APPX -	11B	2M APPX 1B	12M	2M APPX 2M
13B	2M APPX 3B	14M	2M APPX 4M	15B	2M APPX 5B
DWG ISS	CD ISS	DATE ISSD	DRN	APP	
16M	2M APPX 6M	03-22-96			
17B	2M APPX 7B	01-08-99			

SUPPORTING INFORMATION

CATEGORY	NO.
OSPS DATA SET CABINET	J5D003K-( )
OSPS POWER DISTRIBUTION CABINET	J5D003H-( )
OSPS TERMINAL AND PROCESSOR CONNECTIONS	ED-5D522-33
INTERCABINET CABLING FOR ISDN	ED-5D621-11

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.

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BT13

**ELECTRONIC SWITCHING SYSTEMS**

**5ESS<sup>®</sup>**

**OPERATOR SERVICES POSITIONS**

**SYSTEMS APPLICATION SCHEMATIC**

DWG SIZE	ISSUE
C2	17B

Lucent Technologies SD-5D135-01 SHEET 51 A1

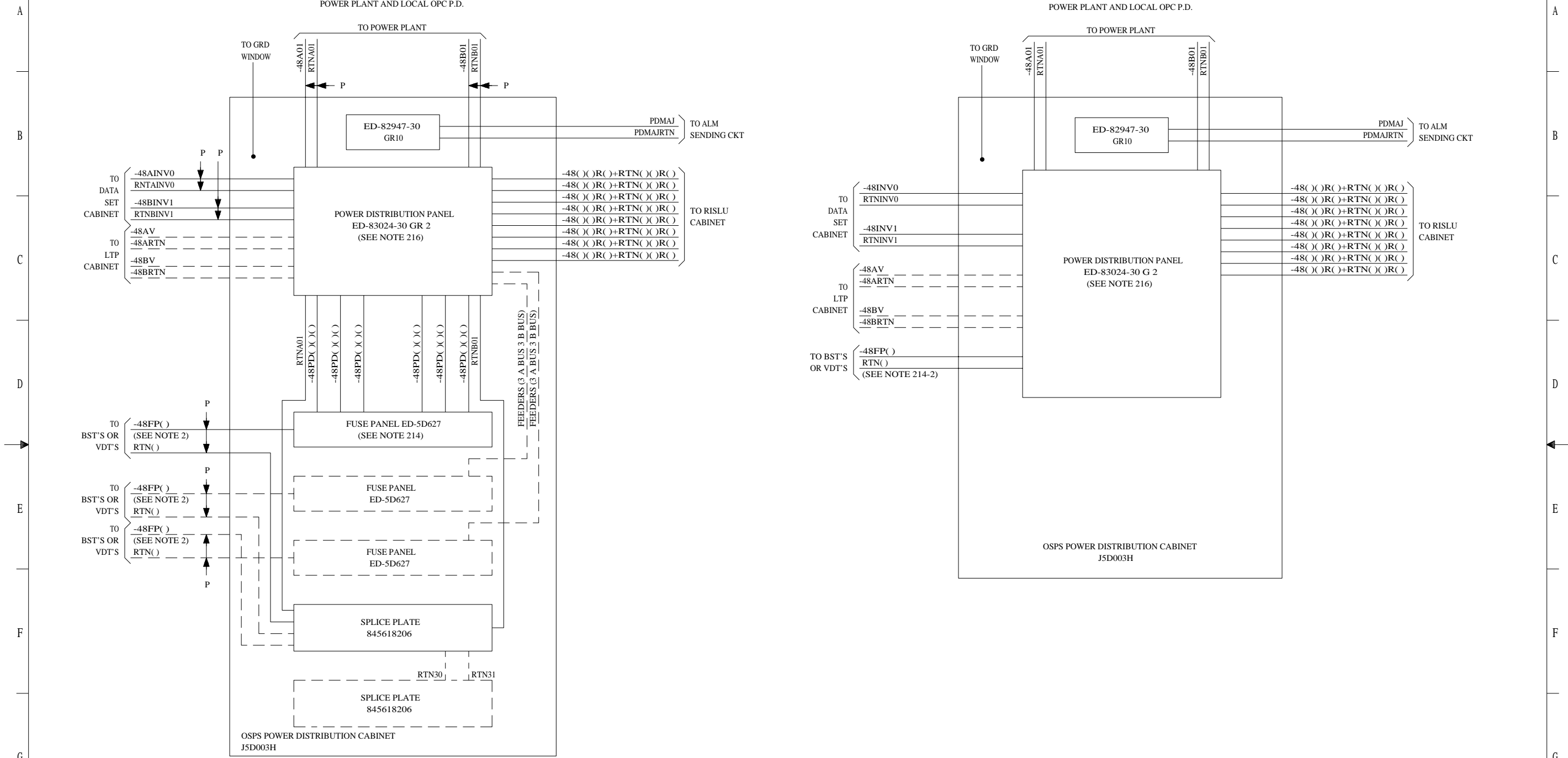
0 1 2 3 4 5 6 7 8 9

# AS 1

REMOTE OSC SITE WITH DEDICATED POWER PLANT AND LOCAL OPC P.D.

# AS 1A

REMOTE OSC SITE WITH DEDICATED POWER PLANT AND LOCAL OPC P.D.



**NOTES:**

1. POWER DISTRIBUTION PANEL TO FUSE PANEL FEEDER LEAD DESCRIPTION.

P.D.  
CAB. BUS FUSE PANEL NO. FUSE BLOCK NO.  
-48 (P,D) (A,B) (1,2,3,4,5,6,7,8) (1,2,3,4,5,6)  
EXAMPLE -48PDA26  
FEEDERS TO BE JOB ENGINEERED.

2. FUSE PANEL TO BST OR VDT FEEDER LEAD DESCRIPTION.

-48 FUSE PANEL FUSE NO.  
-48 FP(1-8) (1 TO 24)  
EXAMPLE -48FP223

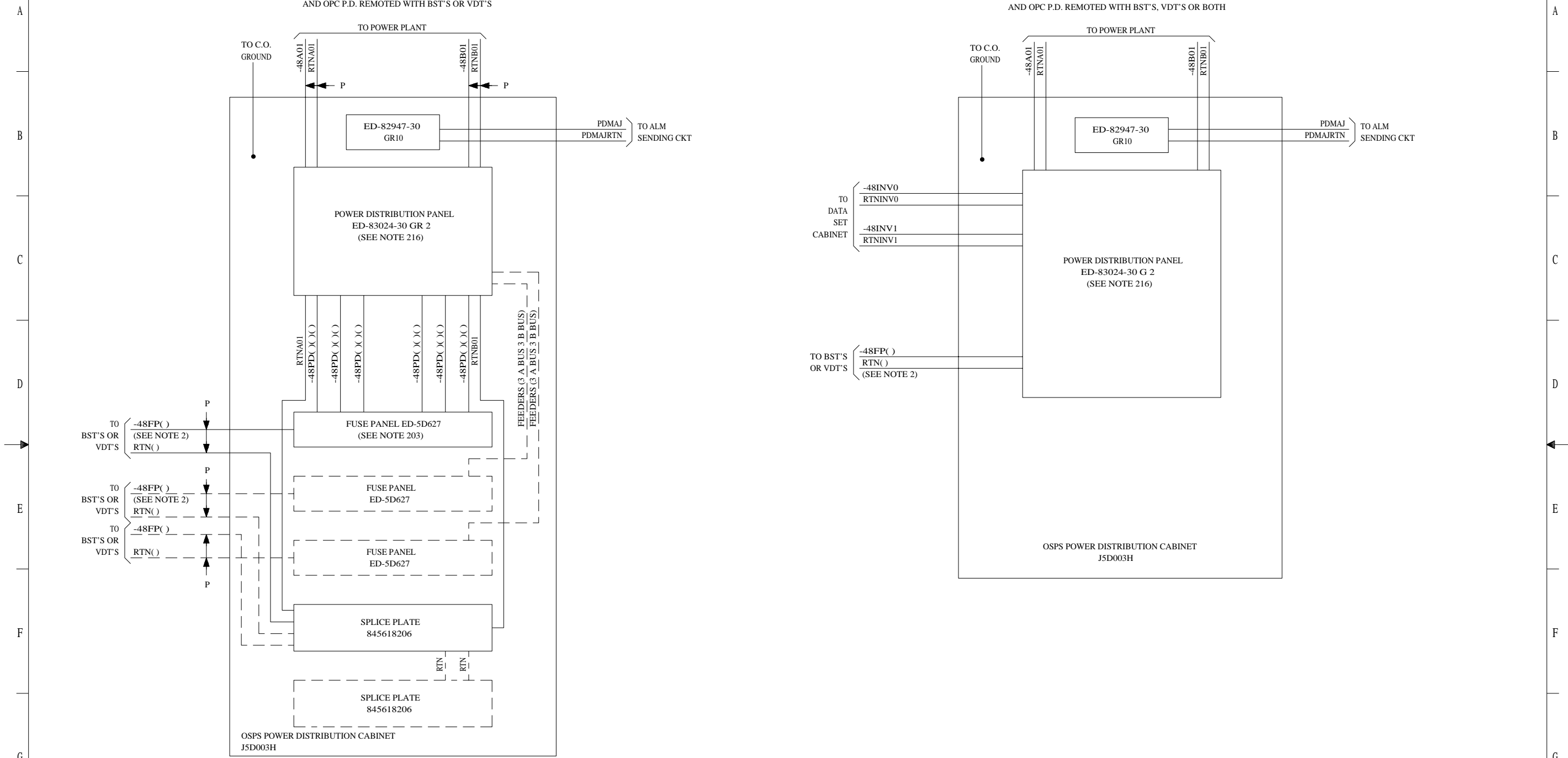
Copyright (C) 1999 Lucent Technologies All Rights Reserved		
OSPS APPLICATION SCHEMATIC	DWG SIZE	ISSUE
	C2	8M
Lucent Technologies	SD-5D135-01	SHEET B1

# AS 2

OSC SITE SHARING POWER PLANT WITH 5ESS<sup>®</sup>  
AND OPC P.D. REMOTED WITH BST'S OR VDT'S

# AS 2A

OSC SITE SHARING POWER PLANT WITH 5ESS<sup>®</sup>  
AND OPC P.D. REMOTED WITH BST'S, VDT'S OR BOTH



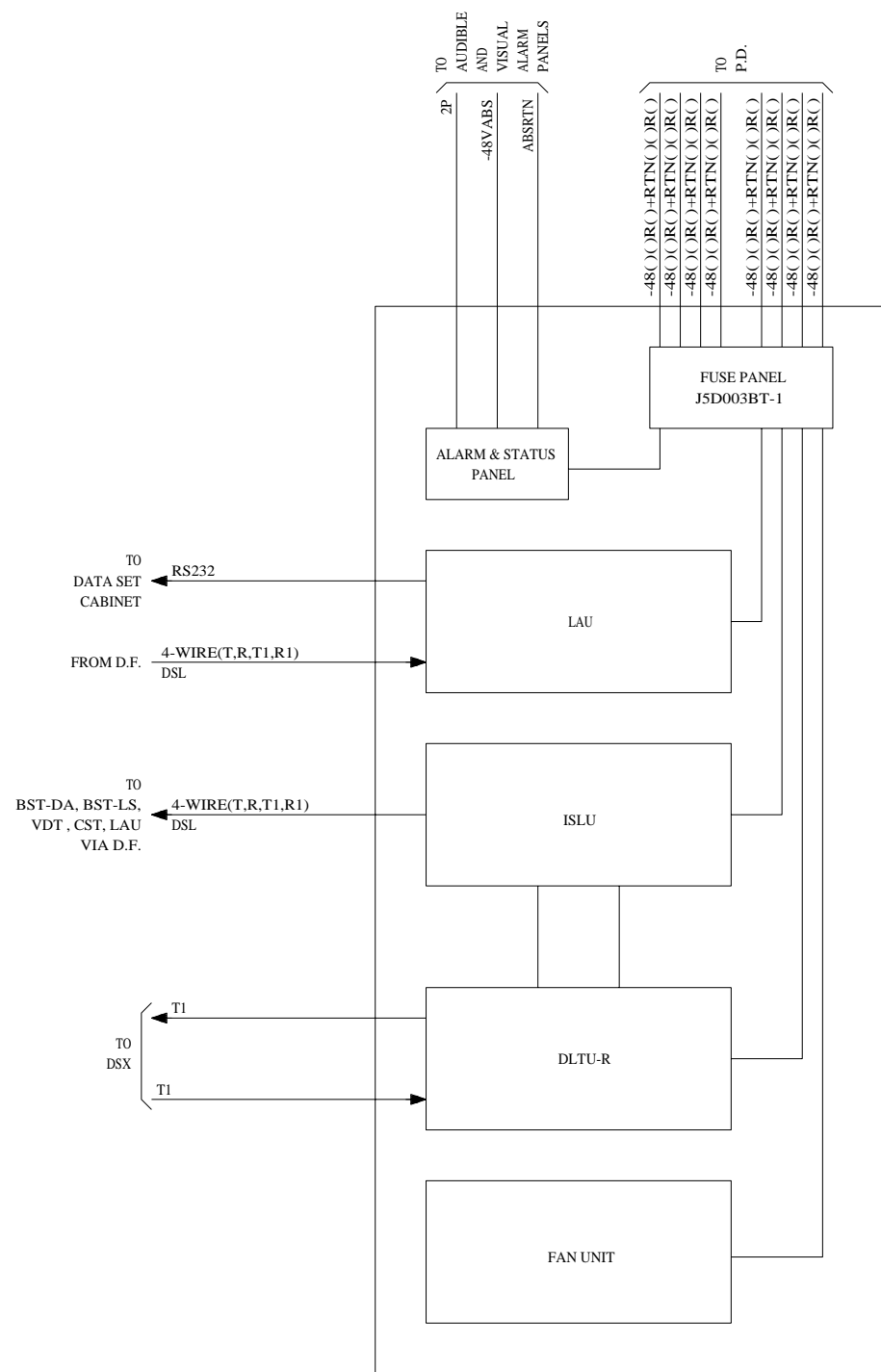
**NOTES:**

- POWER DISTRIBUTION PANEL TO FUSE PANEL FEEDER LEAD DESCRIPTION.  
P.D. CAB. BUS FUSE PANEL NO. FUSE BLOCK NO.  
-48 (P,D) (A,B) (1,2,3,4,5,6,7,8) (1,2,3,4,5,6)  
EXAMPLE -48PDA26  
FEEDERS TO BE JOB ENGINEERED.
- FUSE PANEL TO BST OR VDT FEEDER LEAD DESCRIPTION.  
-48 FUSE PANEL FUSE NO.  
-48 FP(1-8) (1 TO 24)  
EXAMPLE -48FP223

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OSPS APPLICATION SCHEMATIC	DWG SIZE	ISSUE
	C2	8M
Lucent Technologies	SD-5D135-01	SHEET B2

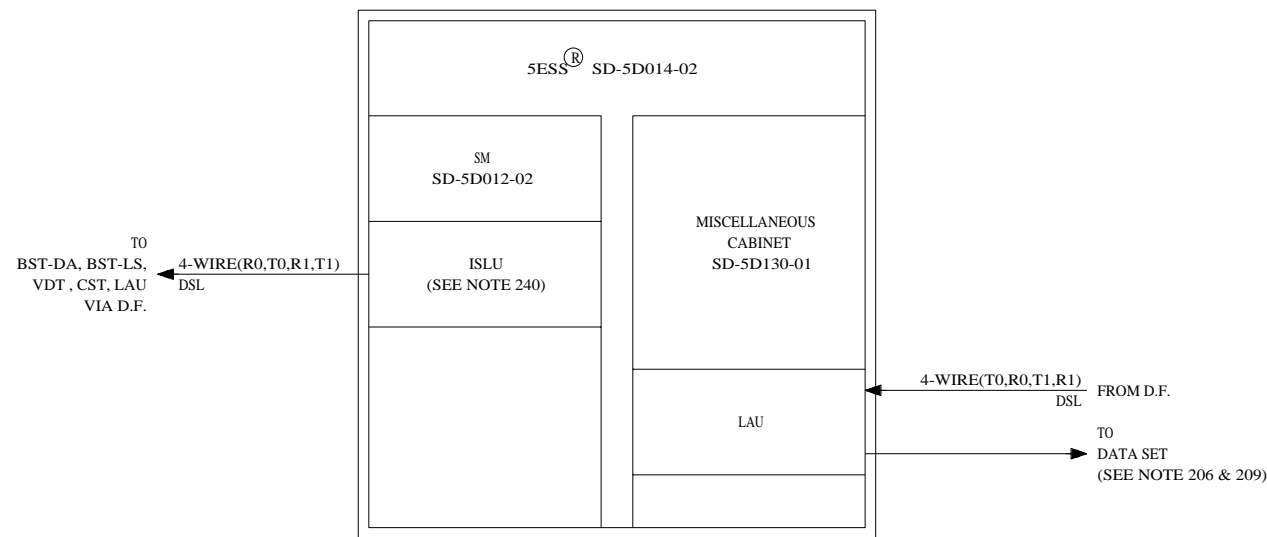
# AS 3

RISLU CABINET  
(REMOTE OSC SITE)



# AS 3A

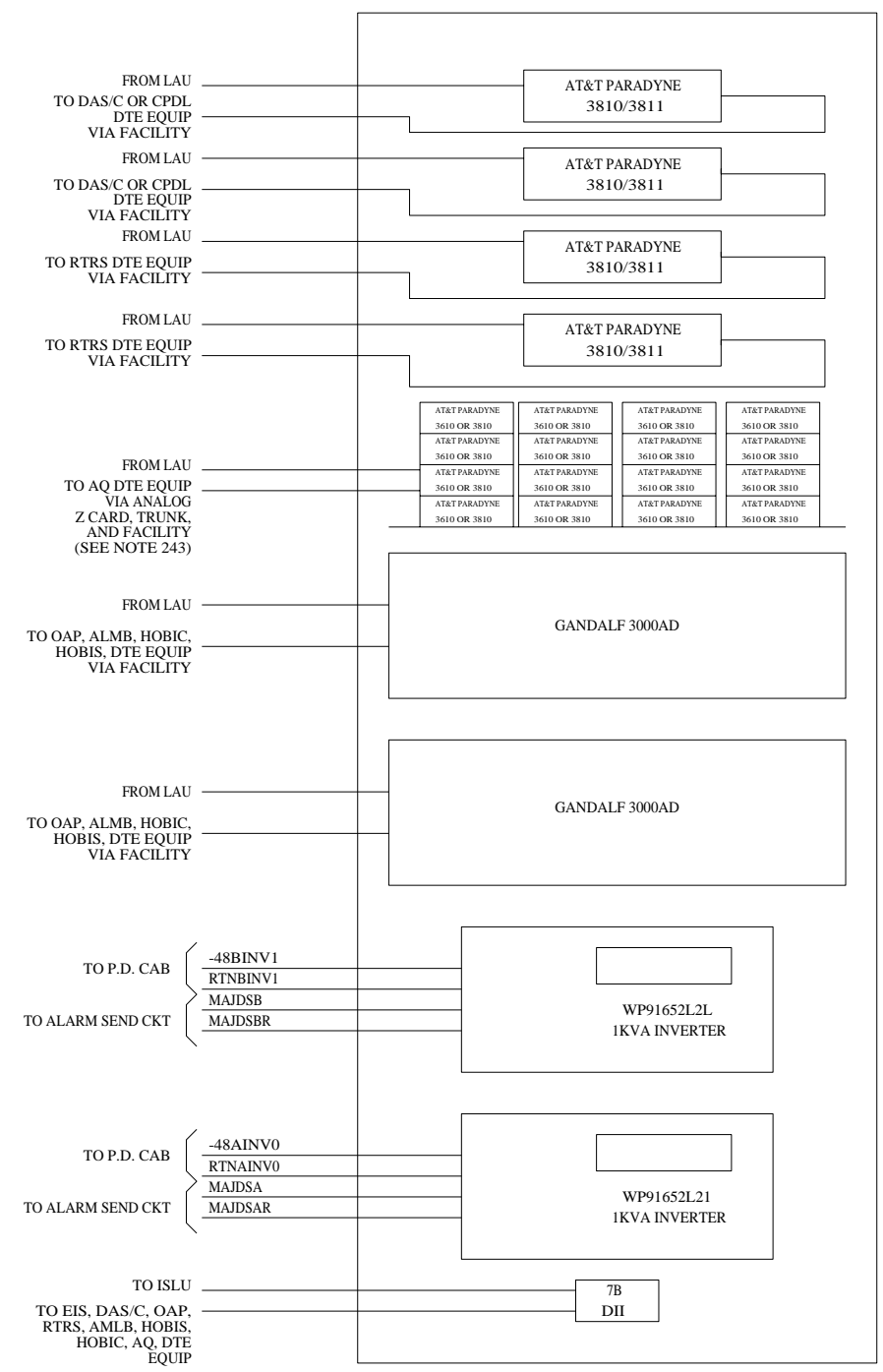
OSPS CO-LOCATED WITH 5ESS<sup>®</sup>



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OSPS APPLICATION SCHEMATIC	DWG SIZE	ISSUE
	C2	8M
Lucent Technologies	SD-5D135-01	SHEET B3

# AS 4

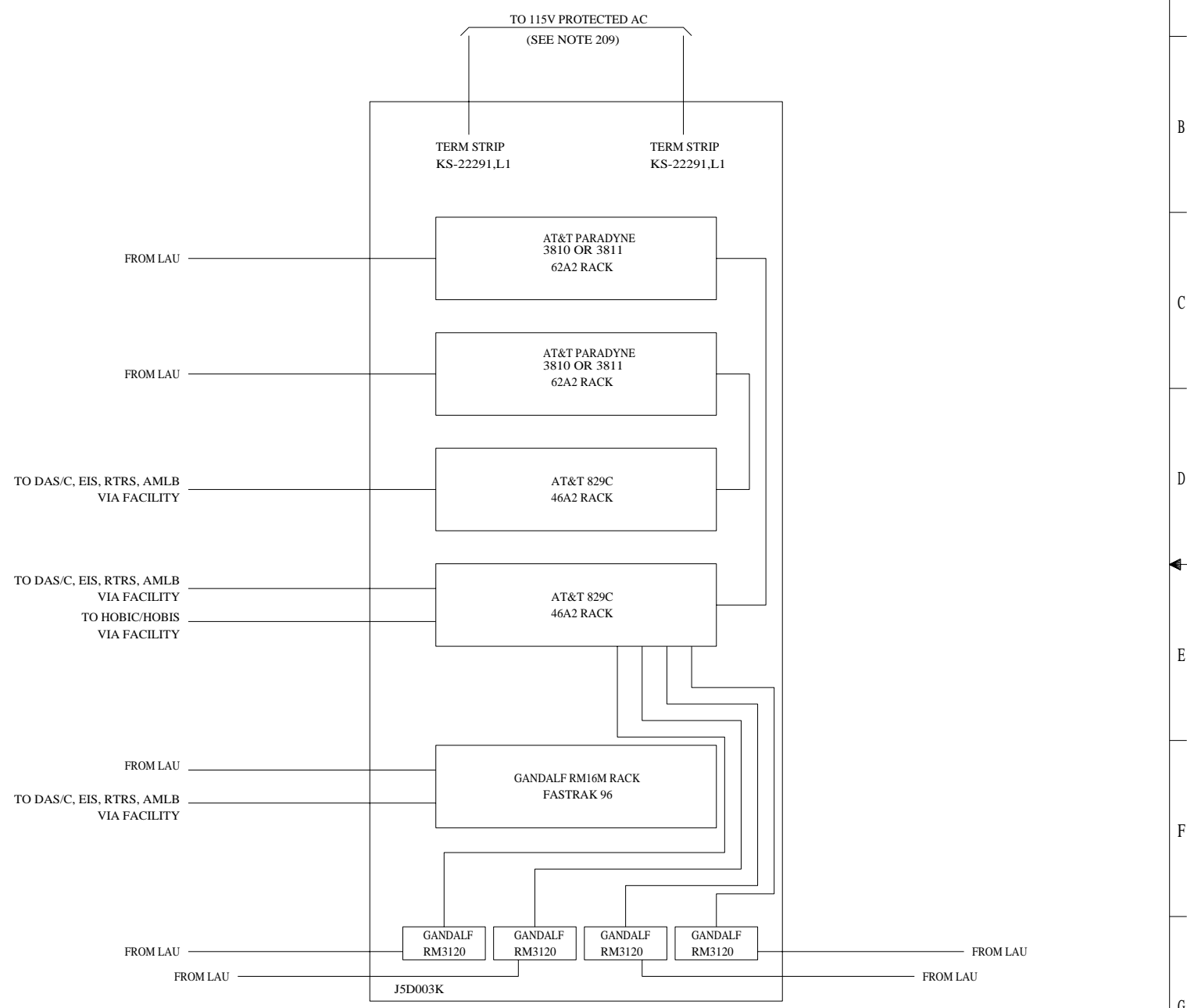
TYPICAL OSPS DATA SET CABINET



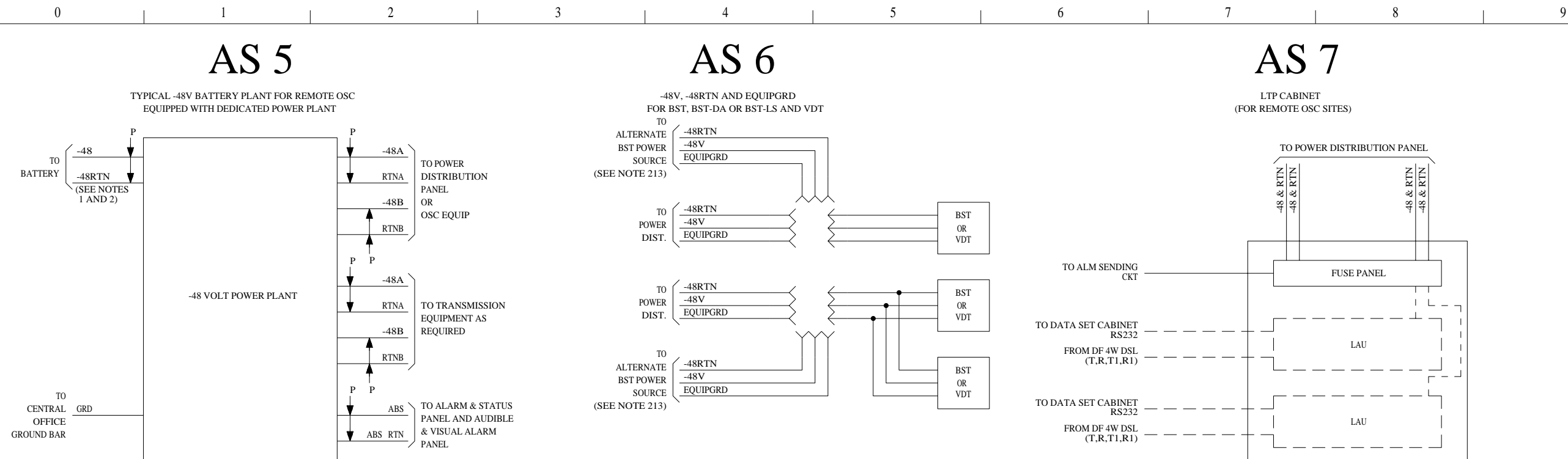
TYPICAL LAYOUT  
J5D003K-3  
FRONT VIEW

# AS 4A

TYPICAL OSPS DATA SET CABINET



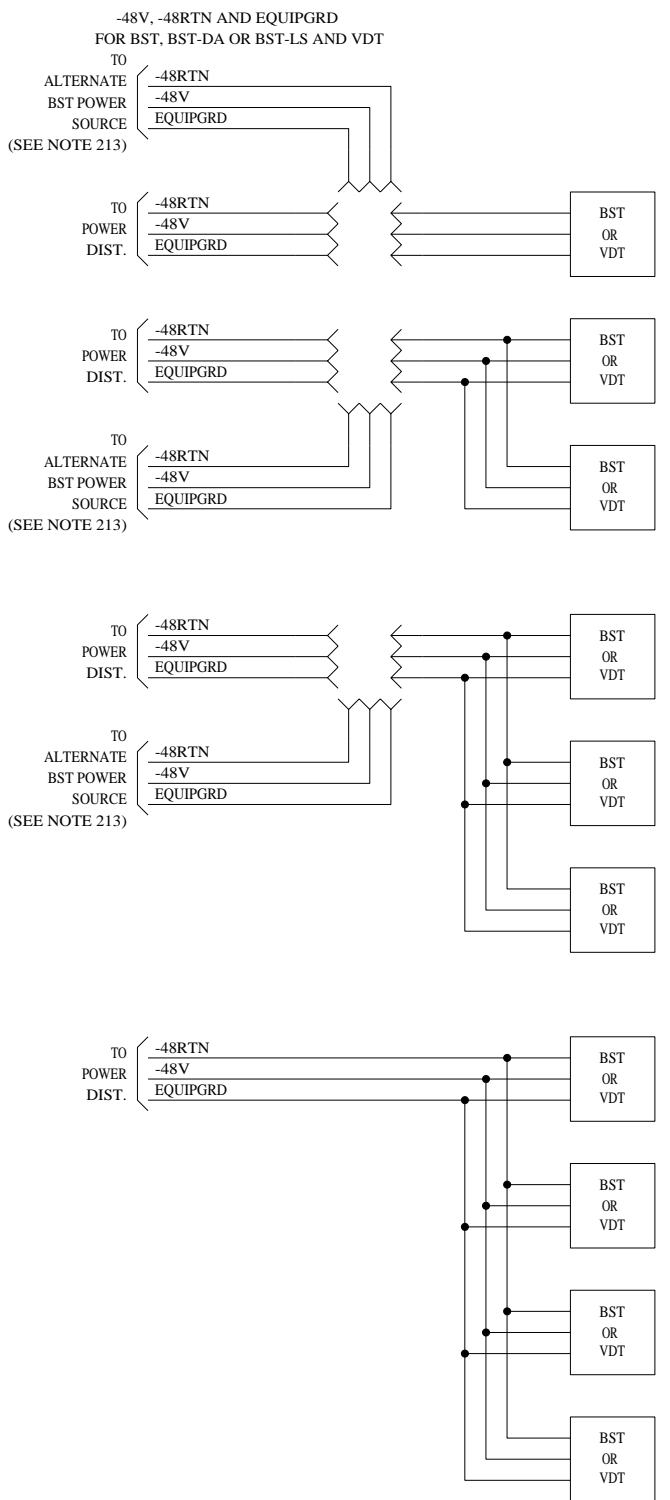
Copyright (C) 1999 Lucent Technologies All Rights Reserved		
OSPS APPLICATION SCHEMATIC	DWG SIZE	ISSUE
	C2	16M
Lucent Technologies	SD-5D135-01	SHEET B4



NOTES:

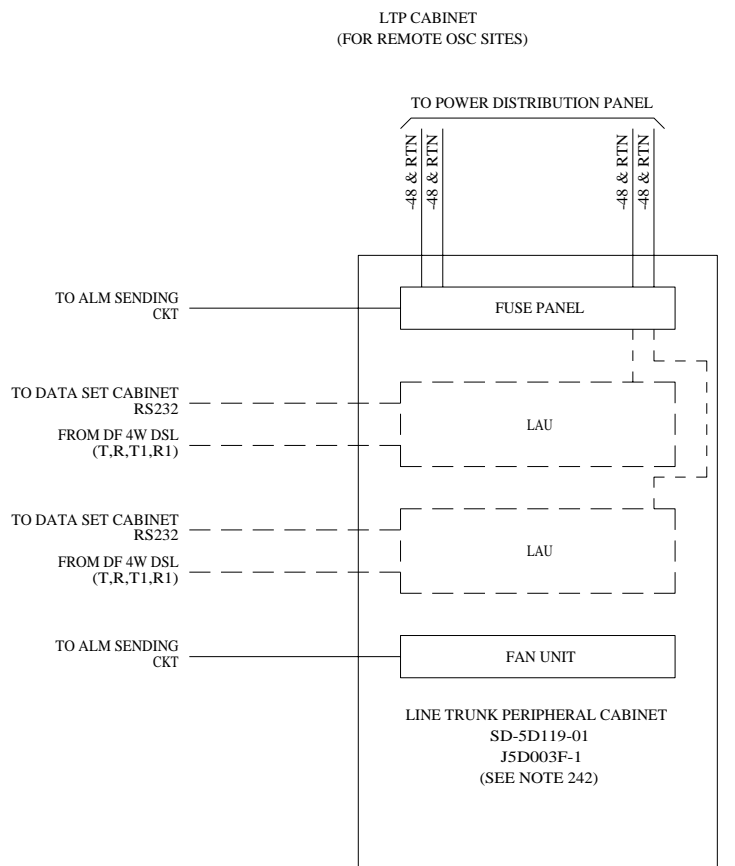
1. IN A REMOTE OSPS CONFIGURATION A BATTERY PLANT IS REQUIRED TO PROVIDE -48 VOLTS POWER AT AN ESTIMATED DRAIN BETWEEN 100 TO 200 AMPS. APPROXIMATELY 100 AMPS FOR 120 BST'S OR APPROXIMATELY 150 AMPS FOR 54 VDT'S. HOWEVER, THE EXISTING BATTERY PLANT MAY BE USED IF IT HAS ELECTRONIC SWITCH VOLTAGES AS SPECIFIED IN BSP 800-610-165 WHICH MEETS THE OSPS POWER AND GROUNDING REQUIREMENTS AS SPECIFIED IN ED-5D022-11.

THE REMOTE OSPS POWER PLANT MUST BE EQUIPPED WITH AN AUTOMATIC RESTART TYPE OF RECTIFIER.



NOTES:

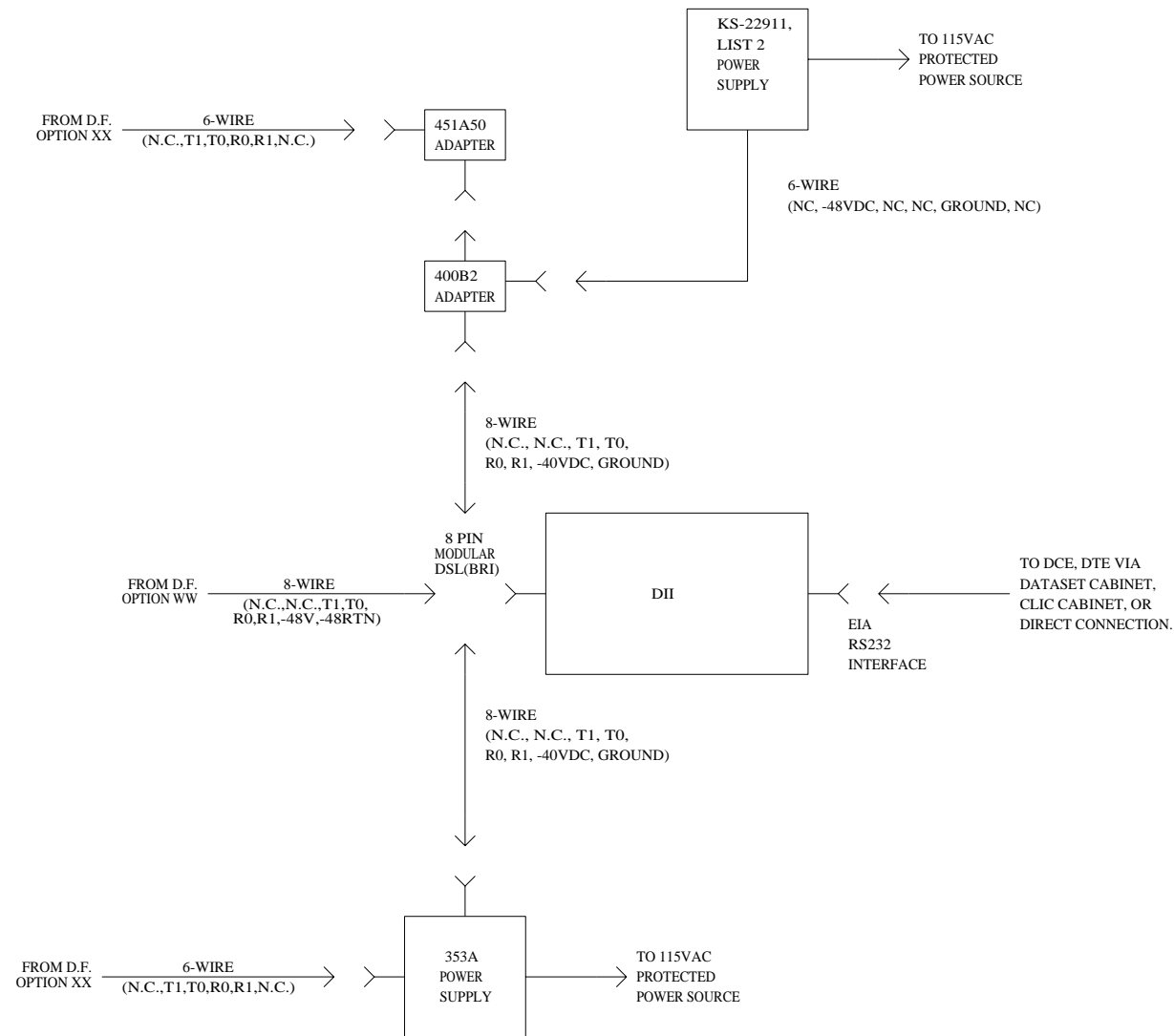
1. SEE EQUIPMENT NOTES 213, 214 AND 224.



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OSPS APPLICATION SCHEMATIC	DWG SIZE	ISSUE
	C2	9B
Lucent Technologies	SD-5D135-01	SHEET B5A

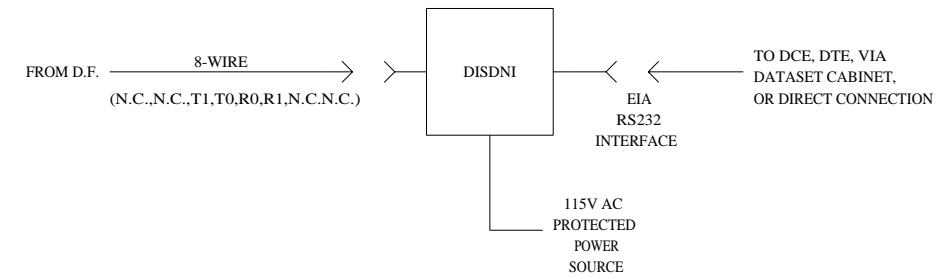
# AS 8

DIRECT INTELLIGENT INTERFACE (DII)



# (DA) AS 9

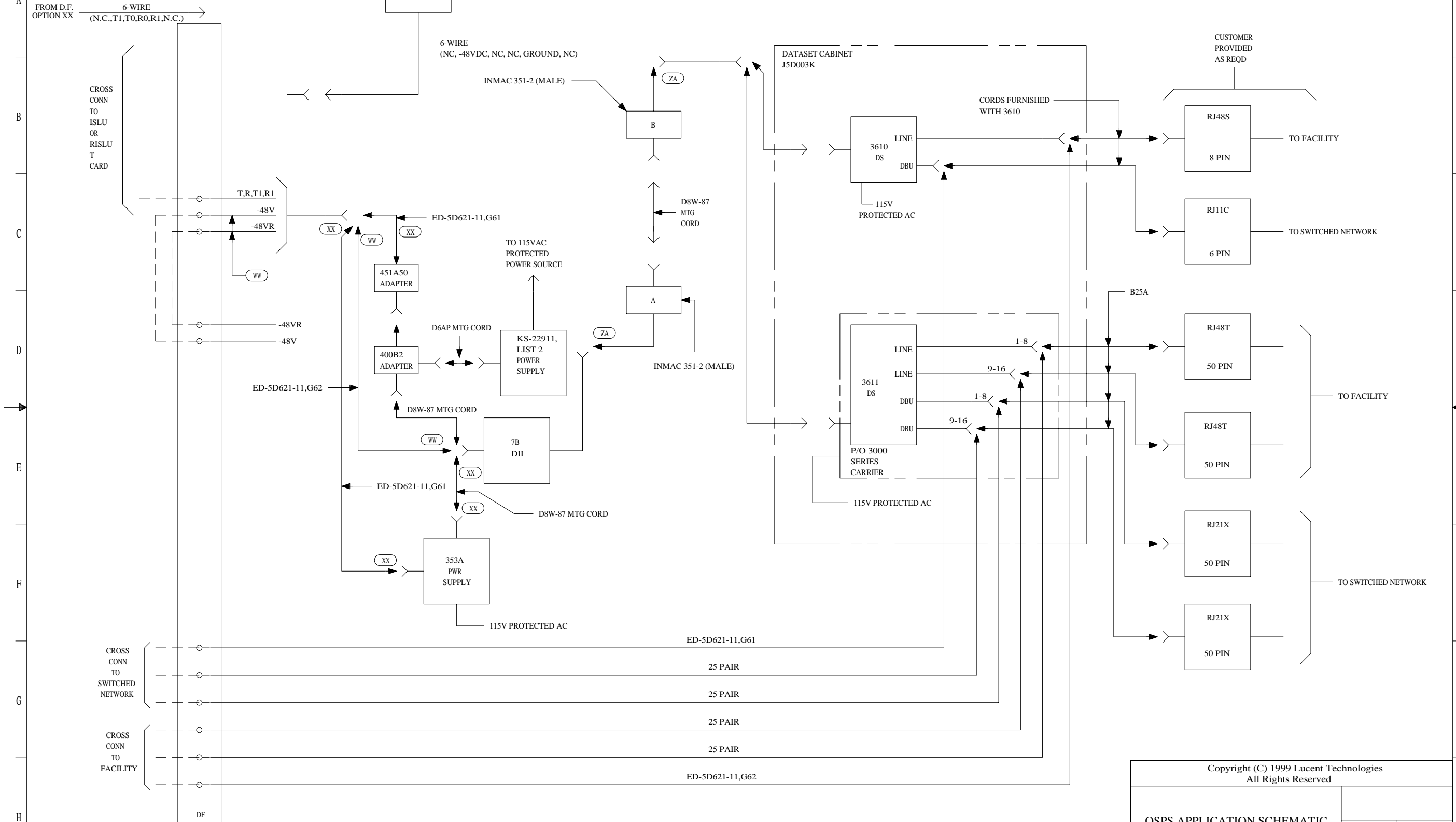
DIRECT ISDN INTERFACE (DISDNI)



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OSPS APPLICATION SCHEMATIC	DWG SIZE	ISSUE
	C2	16M
Lucent Technologies	SD-5D135-01	SHEET B5B

# AS 10

SYNCHRONOUS LINK W/DBU EIS



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OSPS APPLICATION SCHEMATIC		DWG SIZE C2
		ISSUE 16M
Lucent Technologies	SD-5D135-01	SHEET B5C



CIRCUIT NOTES:

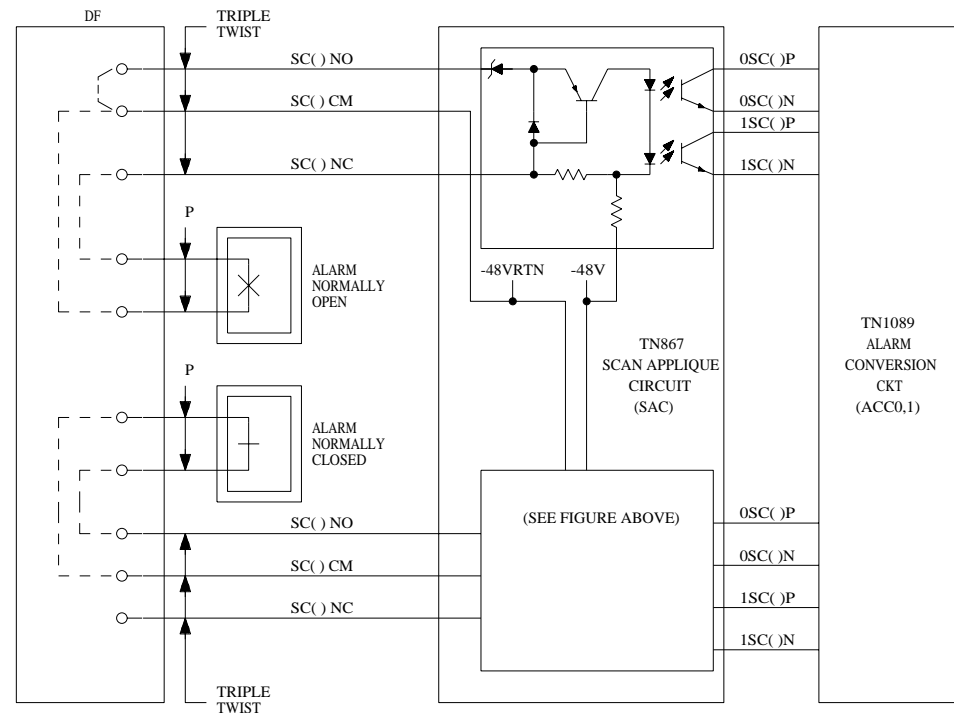
101.

DESIG	FUSE AMP	POTENTIAL	ONE PER
-48V	5A	-48	1, 2, 3, OR 4 BSTS
-48V	5A	-48	1 VDT
-48V	10A	-48	2 OR 3 VDTS
-48V	10A	-48	4 VDTS

BATTERY SYMBOL	VOLTAGE RANGE
-48	-42.75 TO 55.00

102. TYPICAL CONNECTION BETWEEN ALARM CONTACT AND THE ALARM SECTION OF THE LAU VIA DISTRIBUTING FRAME FOR SCAN POINTS THAT REQUIRE BUILDING ALARMS ARE SHOWN BELOW.



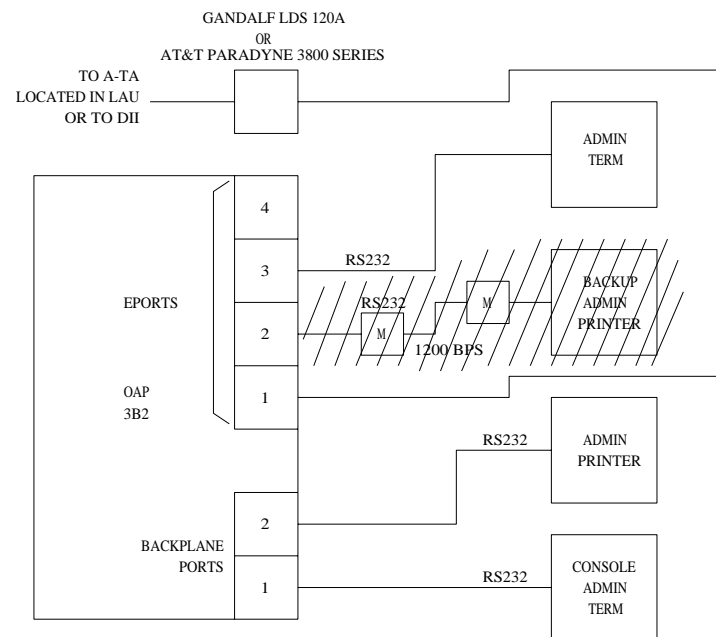
103. UNASSIGNED.

104. FOR COMMUNICATIONS LINK FROM HOST TO REMOTE OSPS SITE SEE SD-5D017-01.

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OSPS APPLICATION SCHEMATIC	DWG SIZE	ISSUE
	C2	14M
Lucent Technologies	SD-5D135-01	SHEET D1

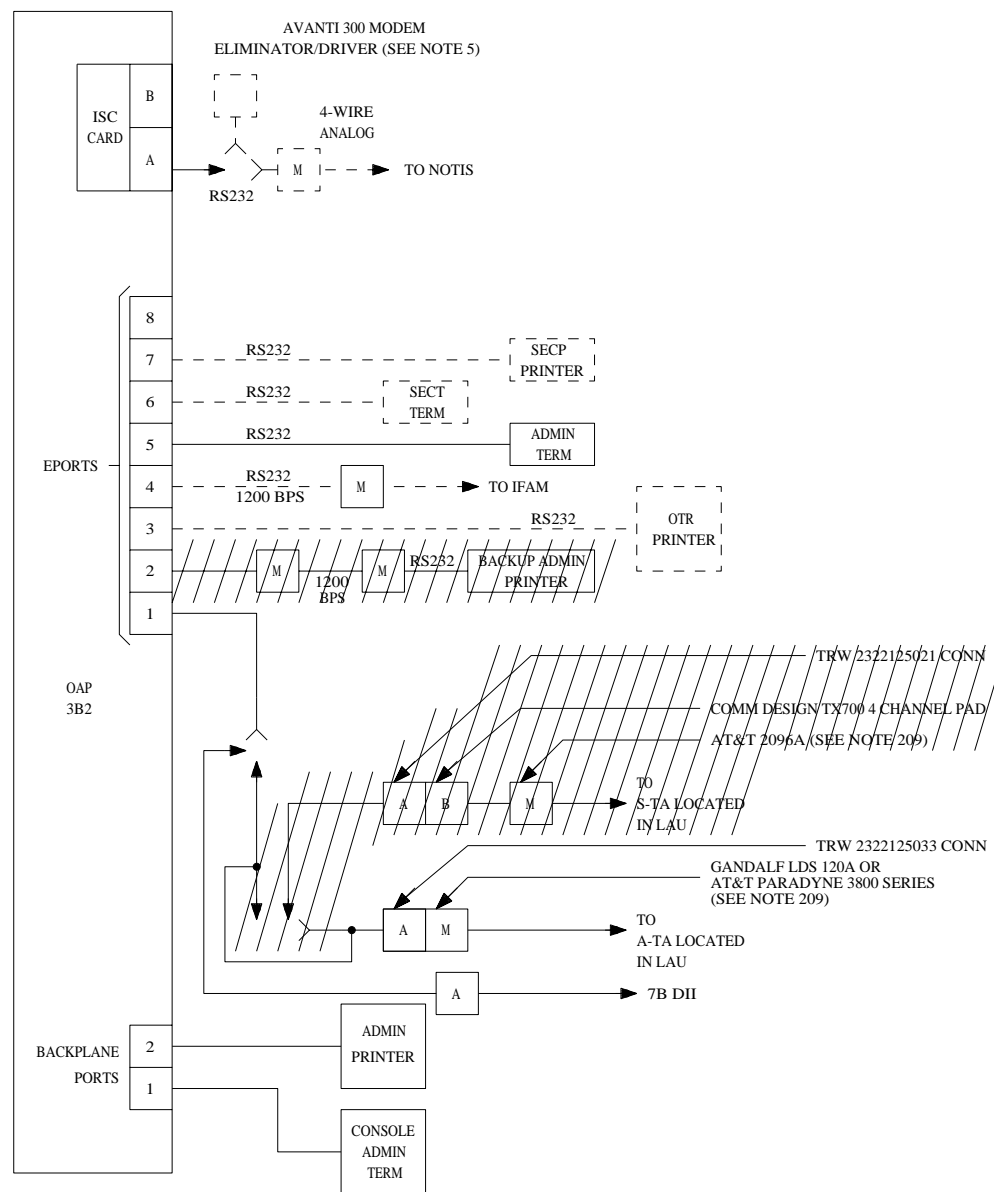
EQUIPMENT NOTES (CONT):

211. TYPICAL OSC CONFIGURATION



EQUIPMENT NOTES (CONT):

211. (CONT) TYPICAL FMC CONFIGURATION



EQUIPMENT NOTES (CONT):

211. (CONT)

NOTES:

- SEE NOTE 210 FOR OAP EQUIPMENT REQUIRED.
- OAP MAY BE A 3B2/522 OR 3B2/600.
- IT IS RECOMMENDED THAT THE 3B2-310 BE USED AT THE OSC WHEN THE 3B2 IS USED ONLY FOR THE OAP FUNCTION. THE 3B2-400 SHOULD BE USED WHEN THE OAP IS USED FOR OTHER FUNCTIONS IN THE OSC AND WHEN THE 3B2 IS USED FOR FMC WITH NOTIS OF IFAM.
- OAP EQUIPMENT SHOULD BE ORDERED FROM ED-5D522-33 DRAWING.
- USED TO PROVIDE LOCAL LOOP BACK TEST CAPABILITY TO TEST ISC BOARD.
- IT IS RECOMMENDED THAT THE OAP 3B2 BE ON PROTECTED POWER WHEN EVER POSSIBLE.
- OAP 3B2 CURRENT DRAINS ARE:
 

3B2-310	115VAC 4 AMPS
3B2-400	115VAC 6 AMPS
AT&T 572 PRINTER	115VAC .57 AMP
705 DISPLAY	115VAC 5 AMP
3B2/522	115VAC 7 AMPS
AT&T 705MT TERMINAL	115VAC 5 AMPS
- USING EPORTS ONLY (11 BOARDS MAX.), 3B2 SUPPORTS 90 SERIAL PORTS MAX. USING I/O EXPANSION BOARDS ONLY (11 BOARDS MAX.), 3B2 SUPPORTS 46 SERIAL PORTS MAX.

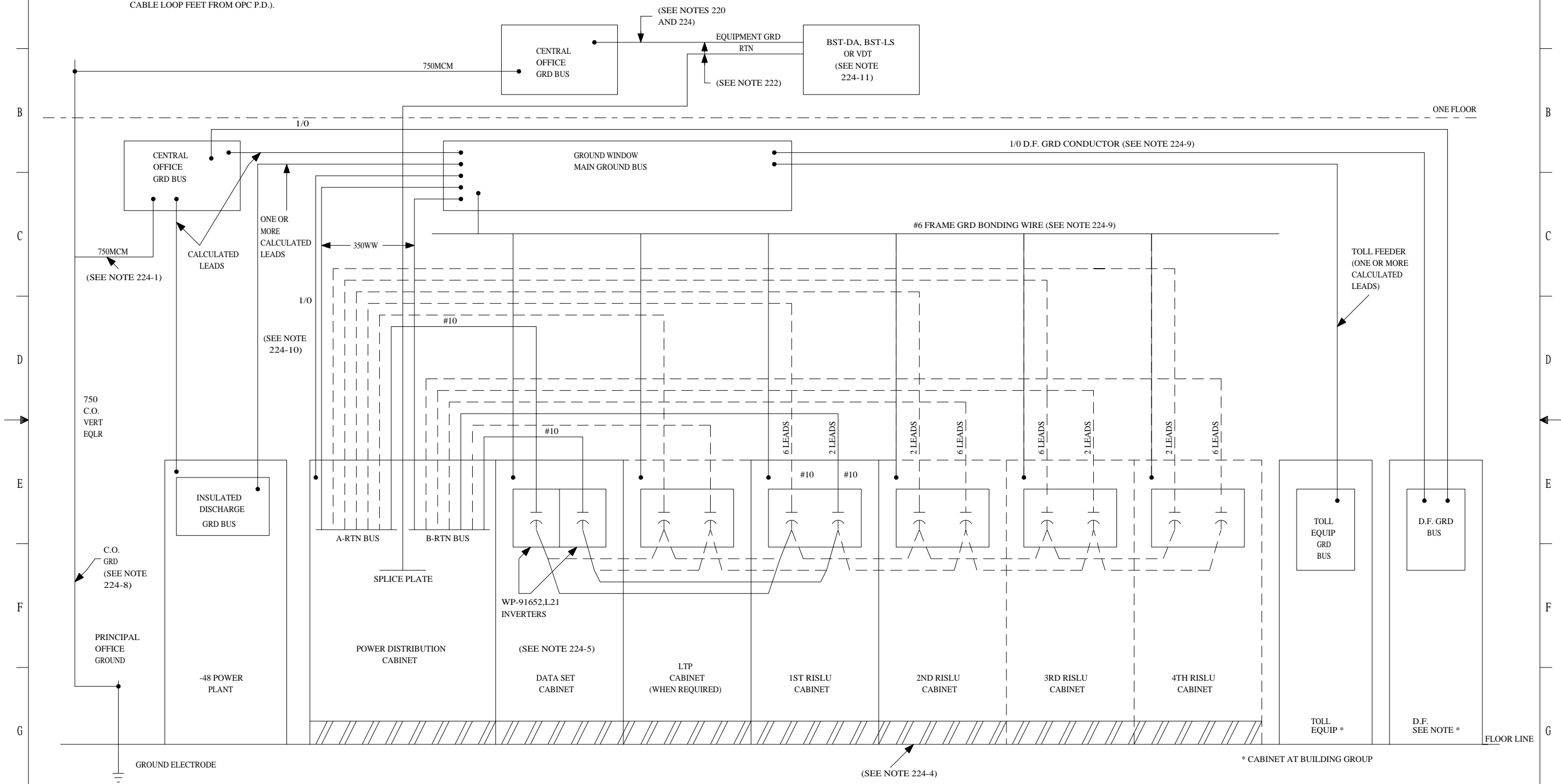
DEFINITIONS:

- NOTIS - NETWORK OPERATIONS TROUBLE REPORT INFORMATION SYSTEMS.
- IFAM - INTEGRATED FORCE ADMINISTRATION MECHANIZATION SYSTEM.
- AT - ADMINISTRATIVE TERMINAL.
- OTRP - OPERATION TROUBLE REPORT PRINTER.
- ISC - INTELLIGENT SERIAL CONTROLLER.
- SECT - SECURITY TERMINAL.
- SECP - SECURITY PRINTER.
- AP - ADMINISTRATIVE PRINTER.
- M - MODEM
- EPORTS - ENHANCED PORTS
- DISDNI - DIRECT ISDN INTERFACE
- DII - DIRECT INTELLIGENT INTERFACE

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OSPS APPLICATION SCHEMATIC	DWG SIZE	ISSUE
	C2	16M
Lucent Technologies	SD-5D135-01	SHEET D3

EQUIPMENT NOTES (CONT):

224. (CONT) TYPICAL APPLICATION FOR REMOTE OSC SITE WITH DEDICATED POWER PLANT AND LOCAL OPC P.D. (BST'S OR VDT'S OVER 800 CABLE LOOP FEET FROM OPC P.D.).



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OSPS APPLICATION SCHEMATIC	DWG SIZE	ISSUE
	C2	8M
Lucent Technologies	SD-5D135-01	SHEET D5

EQUIPMENT NOTES (CONT):

224. (CONT)

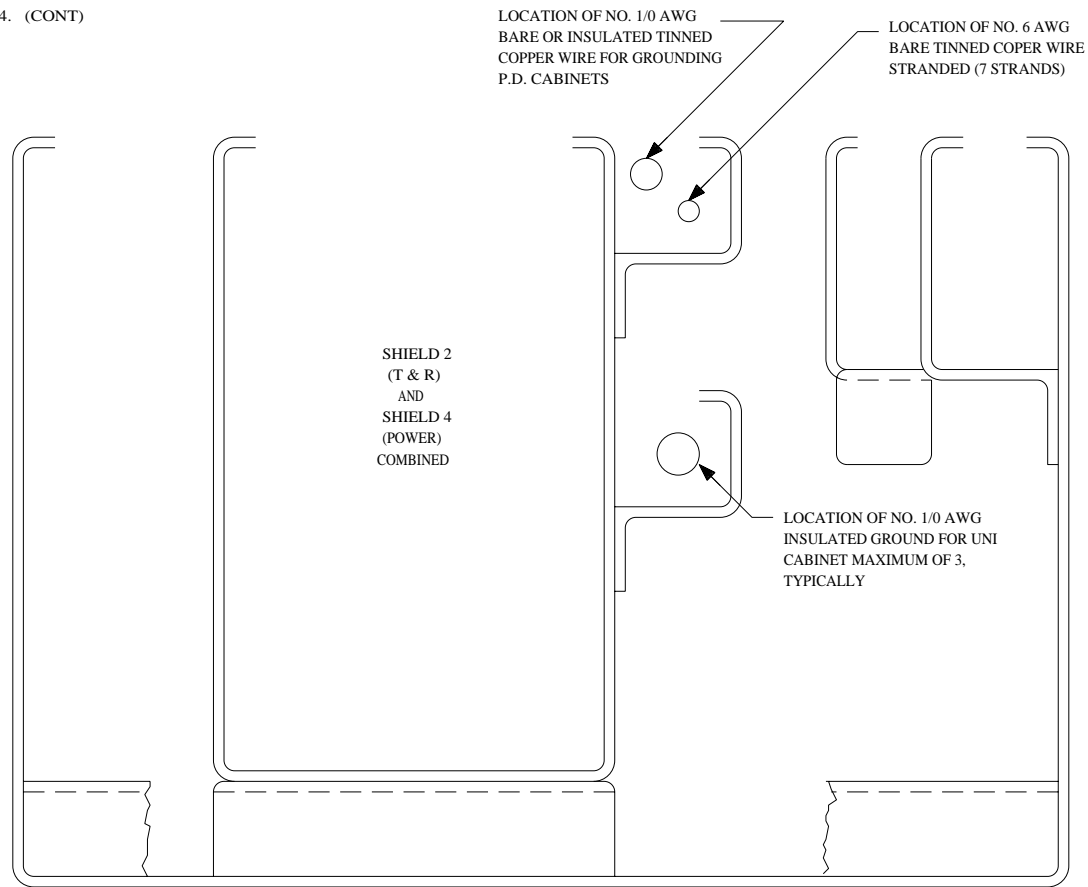


FIG. 1

END VIEW OF LINE-UP CABLE RACK  
SHOWING LOCATION OF GROUND WIRES  
FOR 6 FT. CABINETS.

CABLE ASSEMBLY SIMILAR TO  
840-044-341

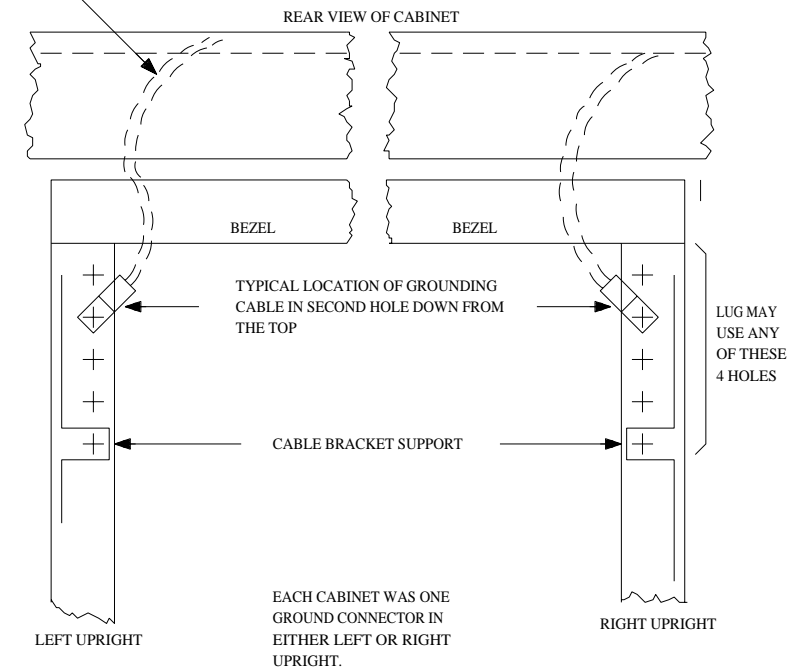


FIG. 3

LOCATION OF 6 FT. CABINET HOLES  
FOR GROUNDING CONDUCTORS

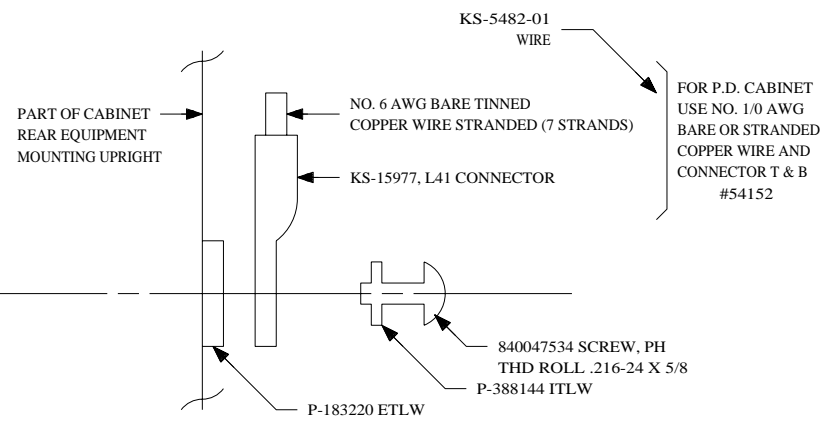


FIG. 2

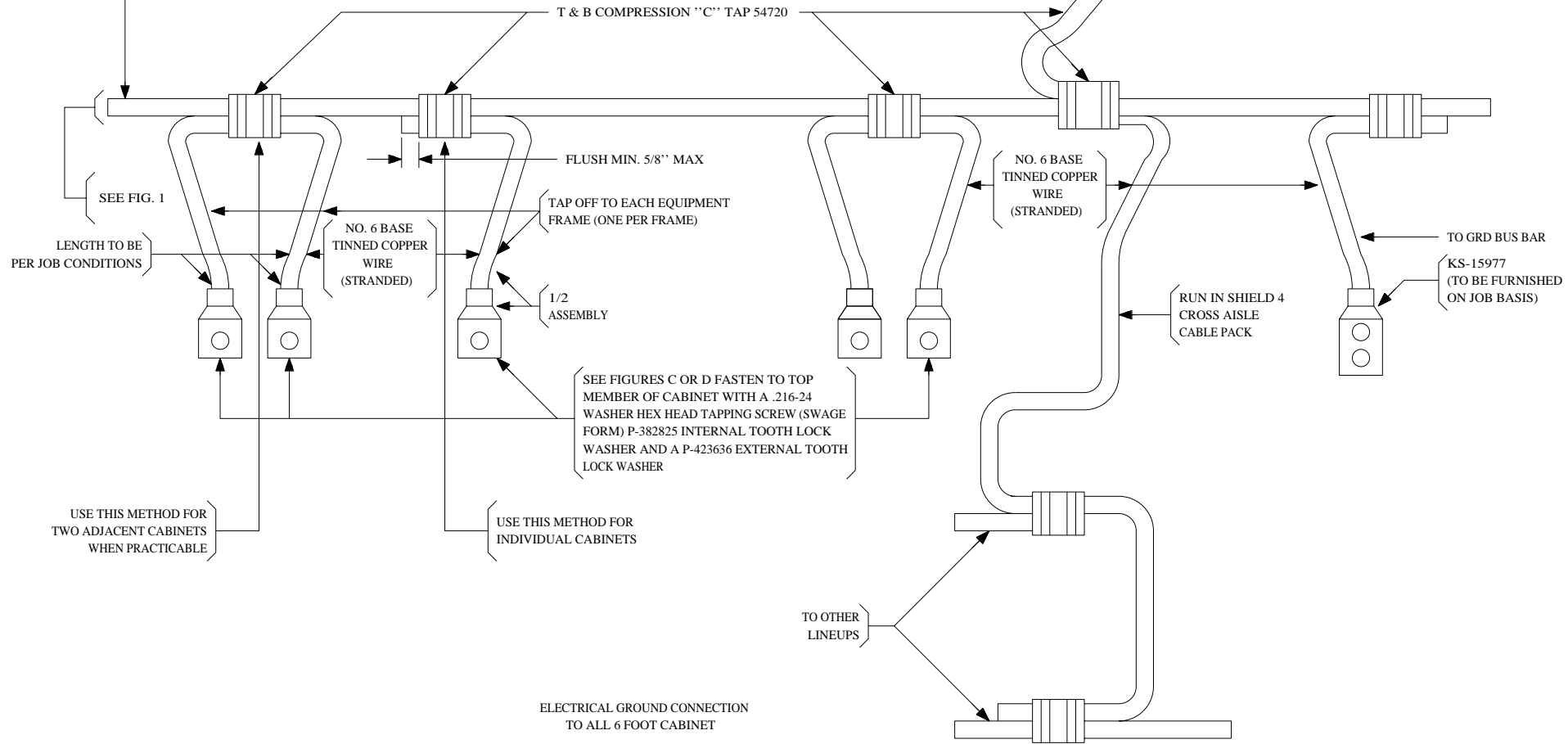
METHOD OF ATTACHING CABINET  
GROUND CONDUCTOR TO 6 FT. CABINET  
UPRIGHT

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OSPS APPLICATION SCHEMATIC	DWG SIZE	ISSUE
	C2	8M
Lucent Technologies	SD-5D135-01	SHEET D6

EQUIPMENT NOTE (CONT):

224. (CONT)

SEE FIG. 1  
ONE CONTINUOUS GROUND  
CONDUCTOR TO BE RUN IN  
BRACKET BESIDE SHIELD 4  
OF CABLE RACK IN ALL  
LINEUPS THROUGH-OUT OFFICE



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OSPS APPLICATION SCHEMATIC	DWG SIZE	ISSUE
	C2	8M
Lucent Technologies	SD-5D135-01	SHEET D7

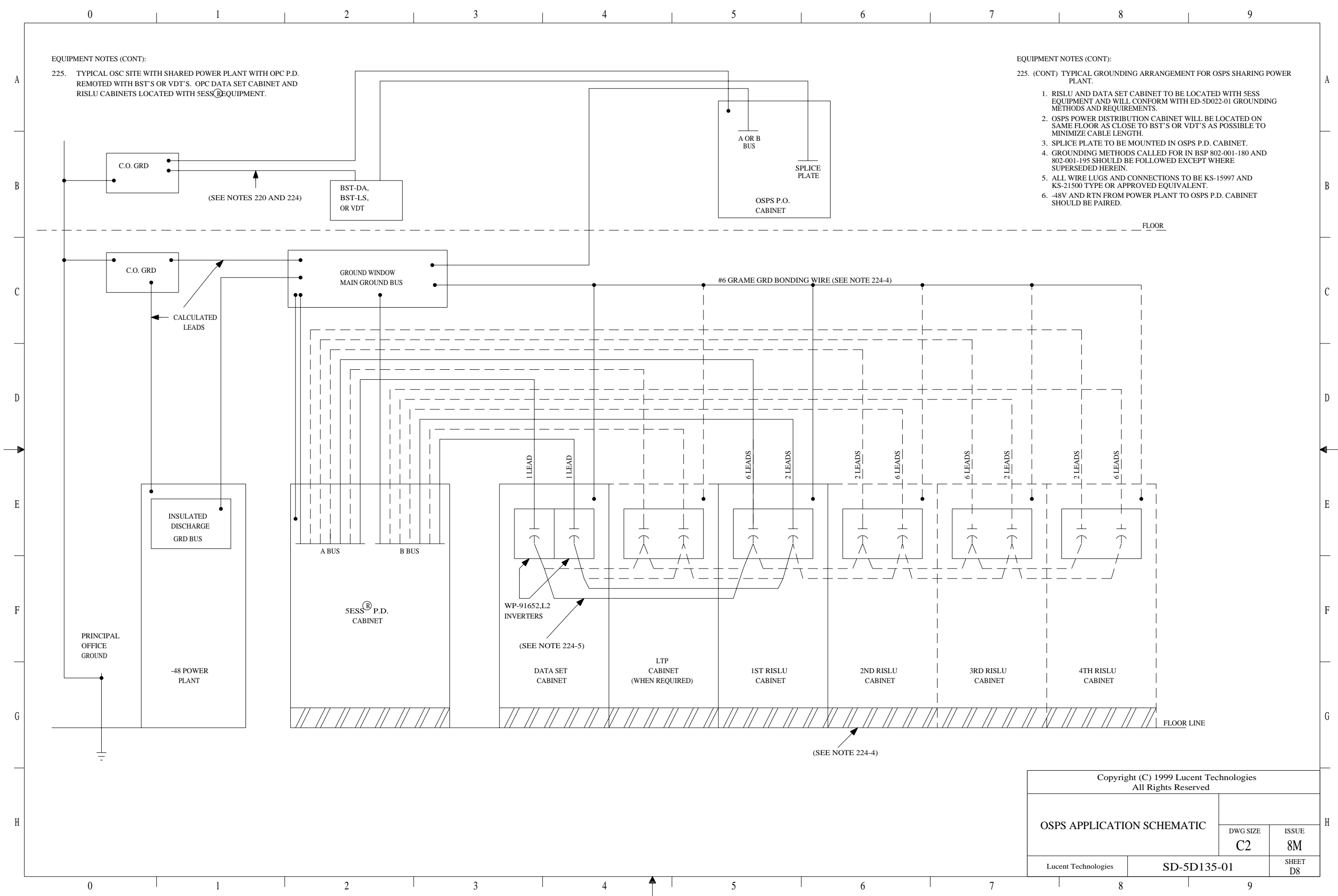
EQUIPMENT NOTES (CONT):

225. TYPICAL OSC SITE WITH SHARED POWER PLANT WITH OPC P.D. REMOTED WITH BST'S OR VDT'S. OPC DATA SET CABINET AND RISLU CABINETS LOCATED WITH 5ESS<sup>®</sup> EQUIPMENT.

EQUIPMENT NOTES (CONT):

225. (CONT) TYPICAL GROUNDING ARRANGEMENT FOR OSPS SHARING POWER PLANT.

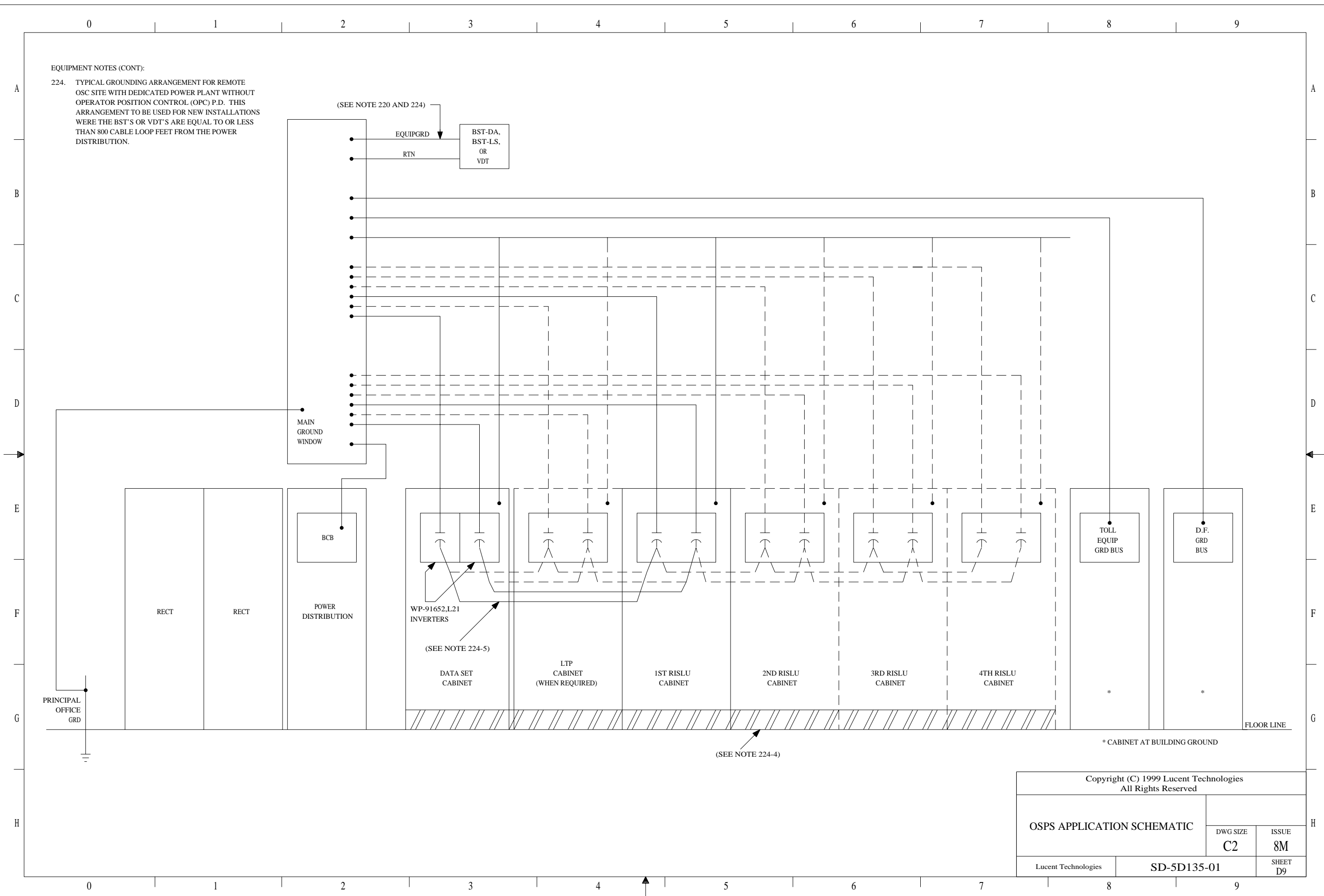
1. RISLU AND DATA SET CABINET TO BE LOCATED WITH 5ESS EQUIPMENT AND WILL CONFORM WITH ED-5D022-01 GROUNDING METHODS AND REQUIREMENTS.
2. OSPS POWER DISTRIBUTION CABINET WILL BE LOCATED ON SAME FLOOR AS CLOSE TO BST'S OR VDT'S AS POSSIBLE TO MINIMIZE CABLE LENGTH.
3. SPLICE PLATE TO BE MOUNTED IN OSPS P.D. CABINET.
4. GROUNDING METHODS CALLED FOR IN BSP 802-001-180 AND 802-001-195 SHOULD BE FOLLOWED EXCEPT WHERE SUPERSEDED HEREIN.
5. ALL WIRE LUGS AND CONNECTIONS TO BE KS-15997 AND KS-21500 TYPE OR APPROVED EQUIVALENT.
6. -48V AND RTN FROM POWER PLANT TO OSPS P.D. CABINET SHOULD BE PAIRED.



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OSPS APPLICATION SCHEMATIC	DWG SIZE	ISSUE
	C2	8M
Lucent Technologies	SD-5D135-01	
		SHEET D8

EQUIPMENT NOTES (CONT):

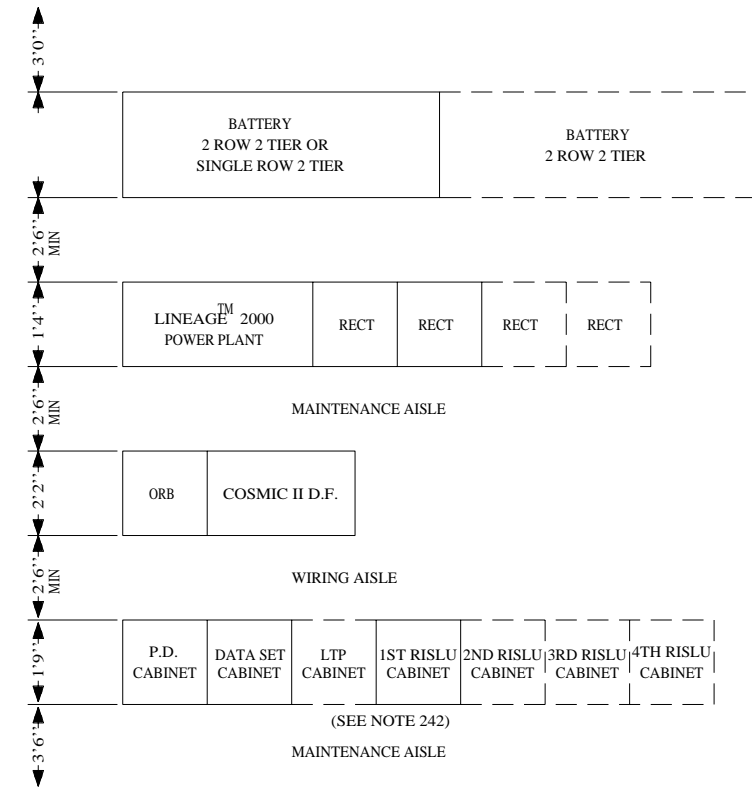
224. TYPICAL GROUNDING ARRANGEMENT FOR REMOTE OSC SITE WITH DEDICATED POWER PLANT WITHOUT OPERATOR POSITION CONTROL (OPC) P.D. THIS ARRANGEMENT TO BE USED FOR NEW INSTALLATIONS WHERE THE BST'S OR VDT'S ARE EQUAL TO OR LESS THAN 800 CABLE LOOP FEET FROM THE POWER DISTRIBUTION.



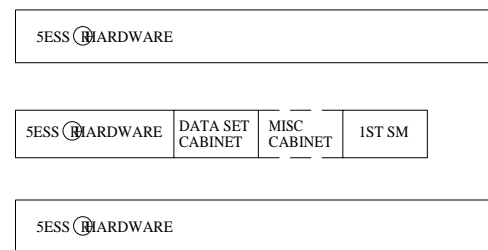
Copyright (C) 1999 Lucent Technologies All Rights Reserved		
OSPS APPLICATION SCHEMATIC	DWG SIZE	ISSUE
	C2	8M
Lucent Technologies	SD-5D135-01	SHEET D9

EQUIPMENT NOTES (CONT):

227A. TYPICAL REMOTE OSC SITE WITH DEDICATED POWER PLANT AND LOCAL OPC P.D.

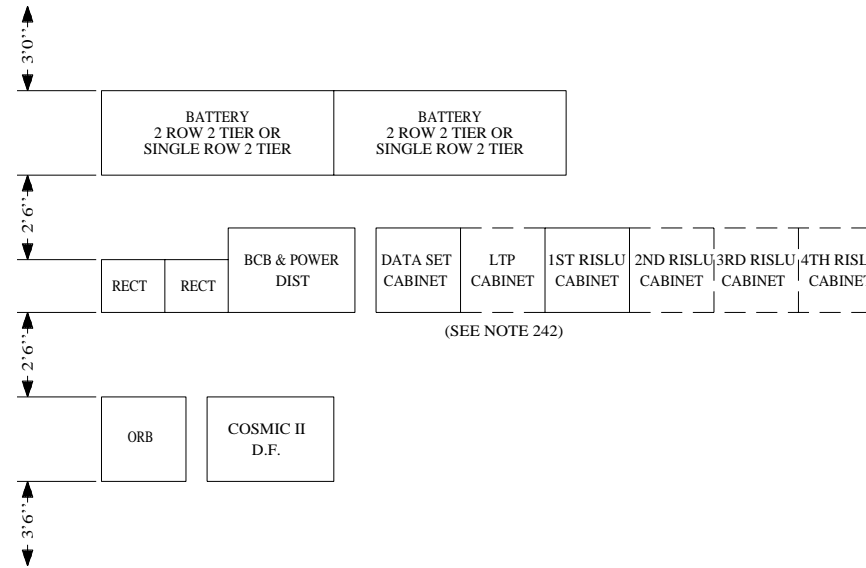


227B. TYPICAL OSC SITE SHARING POWER PLANT WITH 5ESS OPERATOR POSITION CONTROL P.D. LOCATED WITH BST'S OR VDT'S. ISLU LOCATED IN 5ESS (SM) AND LAU/LAU'S LOCATED IN 5ESS (MISCELLANEOUS CABINET).



EQUIPMENT NOTES (CONT):

227C. TYPICAL REMOTE OSC SITE WITH DEDICATED POWER PLANT WITHOUT OPERATOR POSITION CONTROL P.D. (MAX 800 CABLE LOOP FEET FROM POWER DISTRIBUTION TO BST'S OR VDT'S).



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OSPS APPLICATION SCHEMATIC	DWG SIZE	ISSUE
	C2	8M
Lucent Technologies	SD-5D135-01	SHEET D10

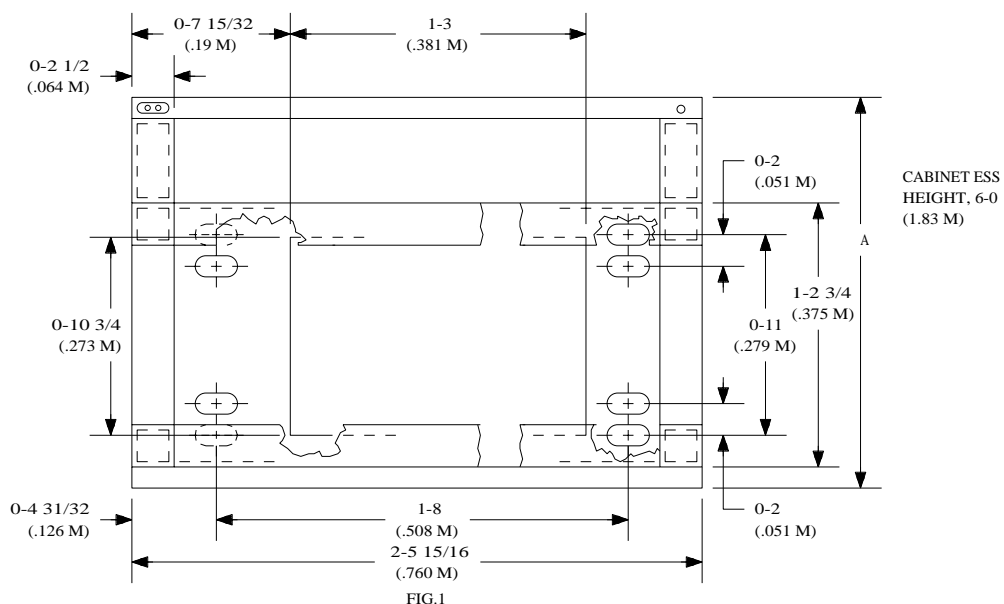


EQUIPMENT NOTES (CONT):

228. FLOOR PLAN DATA RISLU CABINET RISLU

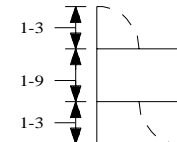
MFR'S NAME: AT&T-T  
MFR'S CODE: J5D003G  
RATING: AT&T PROV.  
NEBS COMPATIBLE: YES  
HEIGHT: 6'-0"  
DEPTH: 1'-9"  
EFFECT WIDTH: 2'-6"  
WEIGHT LBS: 600 \*  
FRWK TYPE: CABINET (SESS<sup>®</sup>)  
MIN FRONT AISLE: 2'-8"  
MIN REAR AISLE: 2'-0"  
SHIELD OR CLASS 3: 3.4 SQ. IN. \*  
4: 1.9 SQ. IN. \*  
HEAT RELEASE, WATTS PLANNING VALUE: 850 WATTS \*  
LIST 1 CURRENT DRAIN: 15.0 AMPS  
LIST 2 CURRENT DRAIN: 18.6 AMPS

FLOORPLAN DETAIL  
CROSS SECTION



DOOR SWING:

BI-FOLD DOOR SWING



FRAME OUTLINE  
FIG. 1

CABINET DET	A' DIM	
	WITH DOOR FRAMES ONLY	WITH DOORS
ED-5D184-70	1-9 3/64 (.535 M)	1-9 27/64 (.544 M)
ED-5D184-71	1-9 1/2 (.546 M)	1-9 3/4 (.552 M)

LIMITING CONDUCTOR INFORMATION:

- MAX CABLE DISTANCE FROM THE RISLU TO THE DATA SET CABINET IS 50' FOR THE RS232 CABLE FROM THE LAU TERMINAL ADAPTER TO THE DATA SETS IN THE DATA SET CABINET.

CABINET PLACEMENT RECOMMENDATION:

- RISLU CABINET SHOULD BE LOCATED AS CLOSE AS POSSIBLE TO THE D.F.
- RISLU CABINETS SHOULD BE LOCATED AS NEAR OPC DATA SET CABINET AS POSSIBLE.

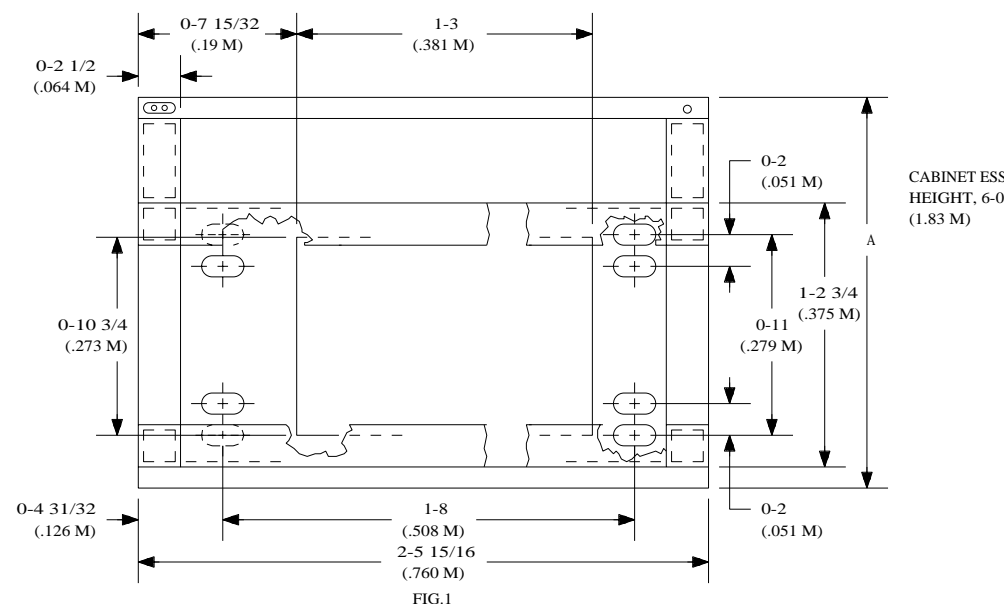
\* ESTIMATED

EQUIPMENT NOTES (CONT):

228. (CONT)

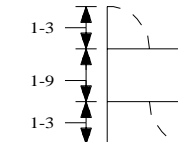
FLOOR PLAN DATA OPC P.D.  
MFR'S NAME: AT&T-T  
MFR'S CODE: J5D003H  
RATING: AT&T PROV.  
NEBS COMPATIBLE: YES  
HEIGHT: 6'-0"  
DEPTH: 1'-9"  
EFFECT WIDTH: 2'-6"  
WEIGHT LBS: 650 \*  
FRWK TYPE: CABINET (SESS<sup>®</sup>)  
MIN FRONT AISLE: 2'-8"  
MIN REAR AISLE: 2'-0"  
SHIELD OR CLASS 4: 50.1 SQ. IN. \*  
HEAT RELEASE, WATTS PLANNING VALUE:

FLOORPLAN DETAIL  
CROSS SECTION



DOOR SWING:

BI-FOLD DOOR SWING



FRAME OUTLINE  
FIG. 1

CABINET DET	A' DIM	
	WITH DOOR FRAMES ONLY	WITH DOORS
ED-5D184-70	1-9 3/64 (.535 M)	1-9 27/64 (.544 M)
ED-5D184-71	1-9 1/2 (.546 M)	1-9 3/4 (.552 M)

LIMITING CONDUCTOR INFORMATION:

- POWER DIST CABINET SHOULD BE LOCATED AS NEAR POWER PLANT AS POSSIBLE TO REDUCE CABLE LENGTHS.

CABINET PLACEMENT RECOMMENDATION:

- POWER DIST CABINET IS TO BE FIRST CABINET IN LINE UP AT REMOTE OSC SITES WITH DEDICATED POWER PLANT AND LOCAL OPERATOR POSITION CONTROL P.D.
- POWER DIST CABINET IS TO BE LOCATED ON SAME FLOOR AND AS CLOSE TO THE BST'S OR VDT'S FOR OSC SITE SHARING A POWER PLANT WITH SESS<sup>®</sup>.

\* ESTIMATED

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OSPS APPLICATION SCHEMATIC	DWG SIZE	ISSUE
	C2	8M
Lucent Technologies	SD-5D135-01	SHEET D11

EQUIPMENT NOTES (CONT):

228. (CONT)

FLOOR PLAN DATA OPC DS

MFR'S NAME: AT&T  
 MFR'S CODE: J5D003K  
 RATING: AT&T PROV.  
 NEBS COMPATIBLE: YES  
 HEIGHT: 6'-0"  
 DEPTH: 1'-9"  
 EFFECT WIDTH: 2'-6"  
 WEIGHT LBS: 500 \*  
 FRWK TYPE: CABINET (SESS)<sup>®</sup>  
 MIN FRONT AISLE: 2'-8"  
 MIN REAR AISLE: 2'-0"  
 SHIELD OR CLASS 3: 1.8 SQ. IN.  
 4: 0.7 SQ. IN.  
 HEAT RELEASE, WATTS PLANNING VALUE: 468 WATTS \*  
 LIST 1 CURRENT DRAIN: 9 AMPS  
 LIST 2 CURRENT DRAIN: 11 AMPS

FLOORPLAN DETAIL  
 CROSS SECTION

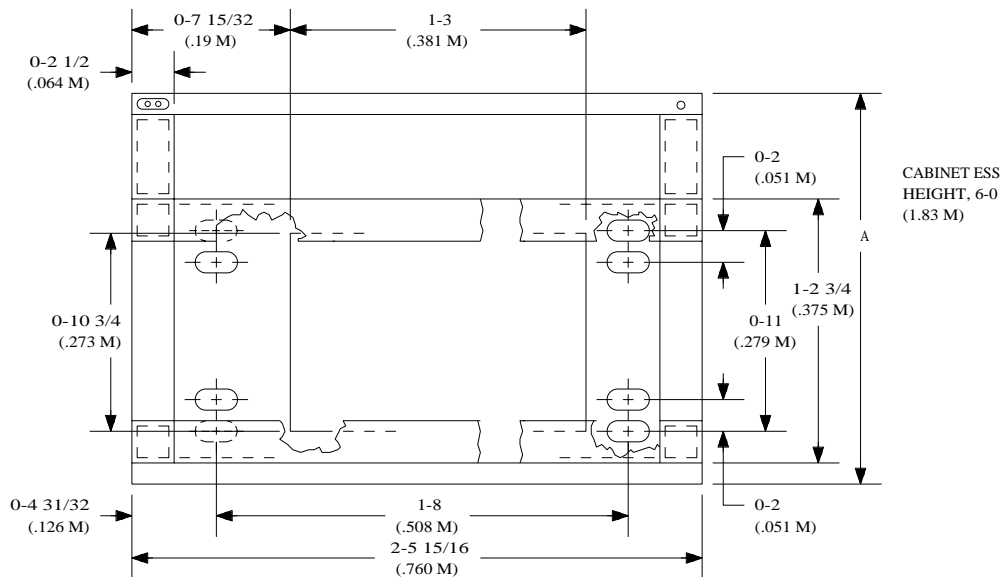


FIG. 1

DOOR SWING:

BI-FOLD DOOR SWING

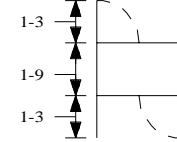


FIG. 1

CABINET DET	A' DIM	
	WITH DOOR FRAMES ONLY	WITH DOORS
ED-5D184-70	1-9 3/64 (.535 M)	1-9 27/64 (.544 M)
ED-5D184-71	1-9 1/2 (.546 M)	1-9 3/4 (.552 M)

LIMITING CONDUCTOR INFORMATION:

- MAX CABLE DISTANCE FROM THE RISLU TO THE DATA SET CABINET IS 50' FOR THE RS232 CABLE FROM THE DATA SETS TO THE LAU TERMINAL ADAPTER.

CABINET PLACEMENT RECOMMENDATION:

- DATA SET CABINET SHOULD BE LOCATED AS NEAR AS POSSIBLE TO RISLU CABINET.

\* ESTIMATED

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OSPS APPLICATION SCHEMATIC

DWG SIZE  
**C2**

ISSUE  
**8M**

Lucent Technologies

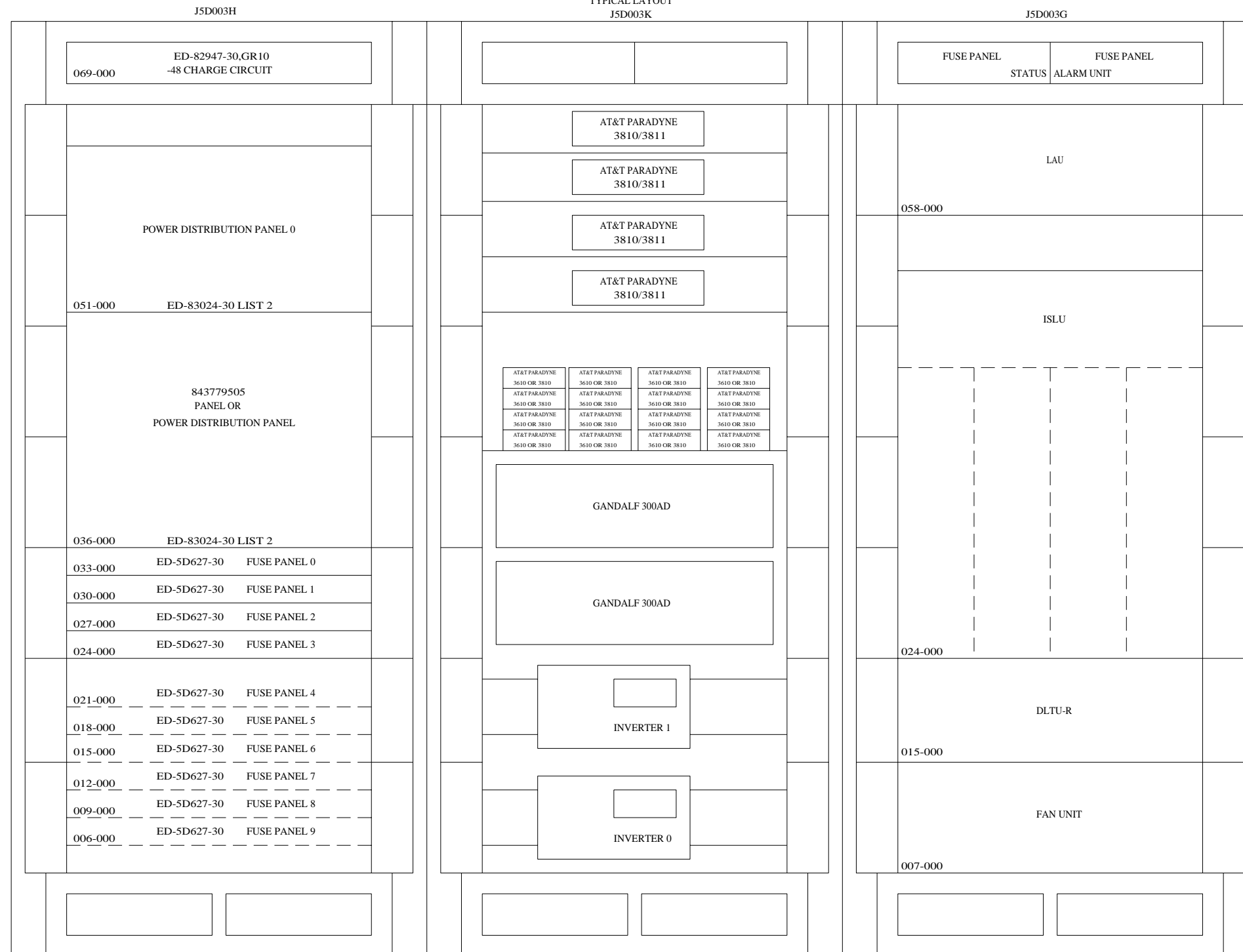
SD-5D135-01

SHEET  
**D12**

EQUIPMENT NOTES (CONT):

229. TYPICAL REMOTE SITE LINE-UP WITH DEDICATED POWER PLANT LOCAL OPC P.D.

TYPICAL LAYOUT  
J5D003K

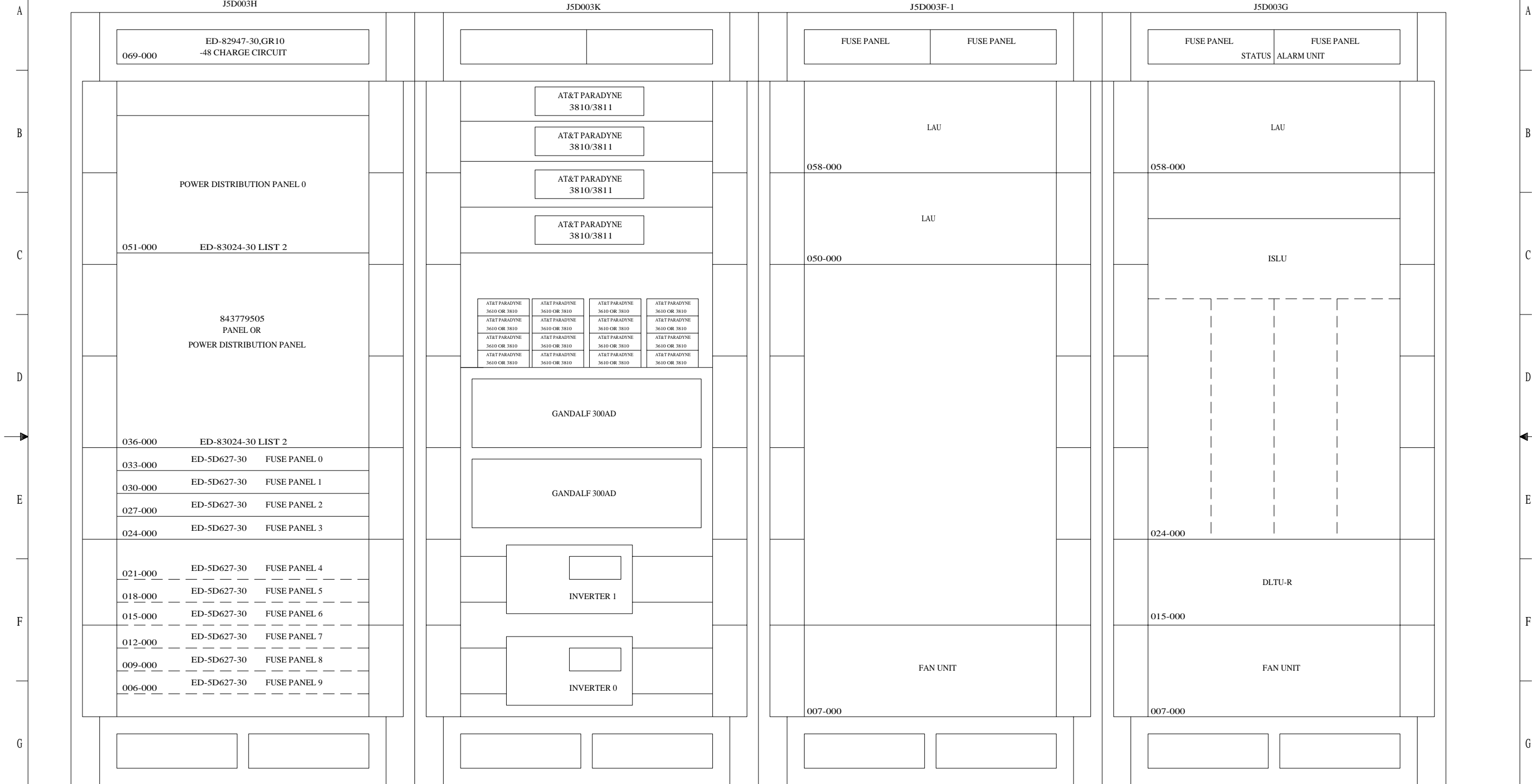


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OSPS APPLICATION SCHEMATIC	DWG SIZE	ISSUE
	C2	16M
Lucent Technologies	SD-5D135-01	SHEET D13

EQUIPMENT NOTES (CONT):

229. (CONT) TYPICAL REMOTE SITE LINE-UP WITH DEDICATED POWER, LINE TRUNK PERIPHERAL CABINET, AND LOCAL OPC P.D.

TYPICAL LAYOUT



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OSPS APPLICATION SCHEMATIC	DWG SIZE	ISSUE
	C2	16M
Lucent Technologies	SD-5D135-01	SHEET D14

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.

FEATURE OR OPTION	PROVIDE		
	APP FIG	APP OR WRG	QUANTITY
CABLE REQUIRED FROM BST-DA TO CCI TERMINAL	V3DVORAK 4546-3	1 Y	1 EACH
	800RR QWERTY 600 & 605	1 X	1 EACH
	V2 DVORAK 4502 800RR QWERTY 609	1 W	1 EACH
	SYNCHRONOUS 9.6K BPS USED FOR DAS, C, RTRS, EIS (SEE NOTE 209 FOR RECOMMENDED MODEMS)	1 V	1 EACH
	ASYNCHRONOUS 9.6K BPS USED FOR OAP (SEE NOTE 209 FOR RECOMMENDED MODEMS)	1 U	1 EACH
CABLE REQUIRED FROM LAU TA TO MODEMS	ASYNCHRONOUS 1.2K BPS USED FOR HOBIC, HOBIS (SEE NOTE 209 FOR RECOMMENDED MODEMS)	1 T	1 EACH
	ASYNCHRONOUS 110,300 BPS USED FOR AUTOQUOTE AL-TA (SEE NOTE 209 FOR RECOMMENDED MODEMS) (SEE NOTE 243)	1 S	1 EACH
	SYNCHRONOUS 9.6K OR 19.2K BPS USED FOR AMLB (SEE NOTE 209 FOR RECOMMENDED MODEMS)	1 R	1 EACH
	CABLE REQUIRED WHEN AUX AC POWER IS USED WITH DATA SET CABINET (SEE NOTE 209)	1 M	2 EACH
BST-DA OR BST-LS POWER	-48V DC POWER	1 L	1 EACH
	117 VAC POWER	1 K	1 EACH
	SYNCHRONOUS CABLE TO MODEM WITH INTERNAL CLOCK; SUPPORTS DAS, C, RTRS, AMLB, OAP, OR EIS	1 J	1 EACH
	ASYNCHRONOUS CABLE TO A MODEM; SUPPORTS OAP, HOBIS, HOBIC	1 H	1 EACH
CABLE REQUIRED FROM DISBNI TO MODEM OR DTE	SYNCHRONOUS CABLE TO A DTE, (NO MODEM)	1 G	1 EACH
	ASYNCHRONOUS CABLE TO A MODEM; AUTOQUOTE OR VENDER SYSTEM	1 F	1 EACH
	DIRECT FROM OAP OR MS/C W/O RS232 CABLE (SEE NOTE 245 AND RD7)	1	
CABLE & APP REQUIRED FROM DISDNI TO MODEM OR DTE	TO SYNCHRONOUS MODEM W/DBU AND EXTERNAL CLOCK	1 ZA	1/CKT

INFORMATION NOTES (CONT):

302. (CONT)

FEATURE OR OPTION	PROVIDE		
	APP FIG	APP OR WRG	QUANTITY
CABLES AND APPARATUS REQUIRED FROM DII TO MODEMS OR DTE	DII TO 3B2 OAP ACU MODEM CONNECTOR	1 E	1
	DII TO ASYNCHRONOUS DTE	1 D	1
	DII TO ASYNCHRONOUS DCE	1 B	1
	DII TO ASYNCHRONOUS LOW SPEED DCE	1 A	1
	DII TO SYNCHRONOUS DTE	1 ZZ	1
	DII TO SYNCHRONOUS DCE W/INTERNAL CLOCK	1 YY	1
	TO SYNCHRONOUS MODEM W/DBU AND EXTERNAL CLOCK	1 ZA	1/CKT
DII TO DISTRIBUTION FRAME	CABLE REQD. WHEN DII LOCAL POWER SUPPLY IS USED	1 XX	1
	CABLE REQD. WHEN DII IS POWERED VIA DIST. FRAME	1 WW	1

INFORMATION NOTES (CONT):

303.

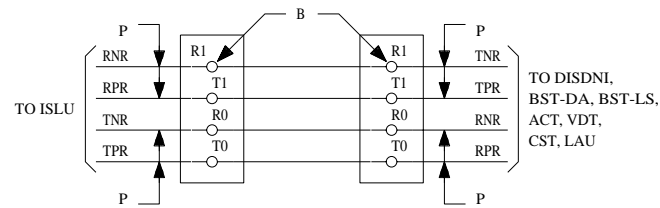
RECORD OF FIGURES, WIRING AND APPARATUS CHANGES					
CHANGED ON ISS	IF JOB RECORDS DO NOT SPECIFY	THIS OPTION WAS FURN	SEE NOTE	USE IN CIRCUIT	
				AVAIL	DA
4A			305		Z
7A					P
16M					

304. CAD 17 P.D. PANEL TO SPLICE PLATE HAS BEEN REMOVED FROM THIS DRAWING AND IS NOW IN SD-5D145-01 OSPS POWER DISTRIBUTION CABINET. CAD 17 IS NOW USED FOR OSPS DATA SET CABINET ALARMS.
305. CAD 18 SPLICE PLATE TO SPLICE PLATE HAS BEEN REMOVED FROM THIS DRAWING AND IS NOW IN SD-5D145-01 OSPS POWER DISTRIBUTION CABINET. CAD 18 NOW USED FOR FUSE AND FAN ALARMS IN THE LTP CABINET.
306. CADS 10, 10A, AND 10B SHOW CONNECTIONS BETWEEN CCI AND BST-DA TERMINALS ONLY. FOR BST-LS APPLICATIONS WITH CCI LSDB TERMINALS, CABLES ARE PROVIDED BY CCI.

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OSPS APPLICATION SCHEMATIC	DWG SIZE	ISSUE
	C2	16M
Lucent Technologies	SD-5D135-01	SHEET D17

EQUIPMENT NOTES:

- (D.A.) 201. SOLID FRONT AND REAR DOORS REQUIRED ON THE DATA SET CABINET AND POWER DISTRIBUTION CABINET.
202. THE DIGITAL CROSS CONNECT (DSX) AND THE OFFICE REPEATER BAY (ORB) ARE TO BE SPECIFIED AND ENGINEERED BY THE LINE ENGINEER.
- (D.A.) 203. CABLE FROM TERMINAL ADAPTER TO DATA SETS:  
 ASYNCHRONOUS 9.6K BPS USED FOR: MIS/C,OAP WIRING OPTION 'U'. ED-5D621-11,G10  
 SYNCHRONOUS 9.6K BPS USED FOR: DAS/C,RTRS, EIS WIRING OPTION 'V'. ED-5D621-11,G10A  
 ASYNCHRONOUS 1.2K BPS USED FOR: HOBIS,HOBIC WIRING OPTION 'T'. ED-5D621-11,G10B  
 ASYNCHRONOUS 110 BPS USED FOR: AUTOQUOTE AL-TA WIRING OPTION 'S' (SEE NOTE 243). ED-5D621-11,G10C  
 SYNCHRONOUS 19.2K BPS USED FOR: SRA WITH MODEMS WIRING OPTION 'R'. ED-5D621-11,G10D



TO DISDNI, BST-DA, BST-LS, ACT, VDT, CST, LAU

THE LEAD DESIGNATIONS TPR,TNR,RPR,RNR ARE USED FOR OSPS CIRCUIT (IE: BST,VDT,LAU CIRCUIT PACKS) AND ISLU CIRCUITS (T-CARDS). THE LEAD DESIGNATIONS T0,R0,T1,R1 ARE USED FOR CABLING BETWEEN THE ISLU AND OSPS CIRCUITS.

- (D.A.) 206. CONNECTOR PINOUT INFORMATION LAU TO DATA SETS.

WIRING OPTION 'V' (SEE NOTE 2)  
9.6K BPS, SYNCHRONOUS CABLE CONN. (DAS/C,RTRS,EIS)

PIN NUMBER 982AC CONN. LOCATED ON LAU	LEAD DESCRIPTION TA	LEAD DESCRIPTION MODEM	PIN NUMBER RS232 CONN.
045	SIGNAL GROUND	-	7
046	CD6	DSR	6
047	CTSB (SEE NOTE 1)	CTS	NC
048	TXDB	TD	2
049	TRANSMIT CLOCK	TC	15
050	(SEE NOTE 1)	-	NC
145	NC	-	NC
146	DATA TERMINAL READY	RTS	4
147	RXDB	RD	3
148	RTSB (SEE NOTE 1)	-	NC
149	RECEIVE CLOCK	RC	17
150	(SEE NOTE 1)	-	NC

EQUIPMENT NOTES (CONT):

- (D.A.) 206. (CONT)

(WIRING OPTION 'U')  
9.6K BPS, ASYNCHRONOUS CABLE CONN. (MIS/C,OAP)

PIN NUMBER 982AC CONN. LOCATED ON LAU	LEAD DESCRIPTION TA	LEAD DESCRIPTION MODEM	PIN NUMBER RS232 CONN.	PIN NO. 8 PIN MODULAR JACK FOR 3B2
045	SIGNAL GROUND	SIGNAL GRD	7	7
046	CDB	DCD	8	6
047	(SEE NOTE 3)	CTS	NC	
048	TXDB	TD	2	3
049	NC	-	NC	
050	NC	-	NC	
145	NC	-	NC	
146	DTRB	RTS	4	4
147	RXDB	RD	3	5
148	(SEE NOTE 3)	-	NC	
149	NC	-	NC	
150	NC	-	NC	

NOTE PIN 1 RS232 FRAME GROUND

(WIRING OPTION 'T')  
1200BPS, ASYNCHRONOUS CABLE (HOBIS/HOBIC)

PIN NUMBER 982AC CONN. LOCATED ON LAU	LEAD DESCRIPTION TA	LEAD DESCRIPTION MODEM	PIN NUMBER RS232 CONN.
045	SIG. GRD (NOTE 4)	S-GRD	7
046	CDB	BCD	8
047	(SEE NOTE 3)	CTS	NC
048	TXDB	TD	2
049	NC	-	NC
050	NC	-	NC
145	(SEE NOTE 4)	-	NC
146	DTRB	RTS	4
147	RXDB	RD	3
148	(SEE NOTE 3)	-	NC
149	NC	-	NC
150	NC	-	NC

(WIRING OPTION 'S')  
110 BPS, ASYNCHRONOUS CABLE (AUTOQUOTE: AL-TA) (SEE NOTE 243)

PIN NUMBER 982AC CONN. LOCATED ON LAU	LEAD DESCRIPTION TA	LEAD DESCRIPTION MODEM	PIN NUMBER RS232 CONN.
045	SIGNAL GROUND	S-GRD	7
046	CDB	DSR	6
047	(SEE NOTE 3)	CTS	NC
048	TXDB	TD	2
049	NC	-	NC
050	NC	-	NC
145	NC	-	NC
146	DTRB	DTR	20
147	RXDB	RD	3
148	(SEE NOTE 3)	RTS	NC
149	NC	-	NC
150	NC	-	NC

EQUIPMENT NOTES (CONT):

- (D.A.) 206. (CONT)

(WIRING OPTION 'R')  
9.6K BPS OR 19.2K BPS,  
SYNCHRONOUS INTERNAL CLOCK CABLE (AMLB:SRA)

PIN NUMBER 982AC CONN. LOCATED ON LAU	LEAD DESCRIPTION SRA	LEAD DESCRIPTION MODEM	PIN NUMBER RS232 CONN.
045	GND	S-GRD	7
046	CDE	DSR	6
047	NC	-	NC
048	TXDB	TXD	2
049	TC	T-CLK	15
050	NC	-	NC
145	NC	-	NC
146	DTRB	RTS	4
147	RXDB	RXD	3
148	NC	-	NC
149	RC	R-CLK	17
150	NC	-	NC

NOTES:

- PINS SHORTED TOGETHER ON 982AC CONN. FOR SYNCHRONOUS ARE: PINS 050 TO 150  
PINS 047 TO 148
- PINS SHORTED TOGETHER ON RS232 CONN. FOR SYNCHRONOUS ARE 15 TO 24.
- PINS 047 AND 148 SHORTED TOGETHER ON 982AC CONN. FOR ASYNCHRONOUS.
- PINS 045 AND 145 SHORTED TOGETHER ON 982AC CONN. FOR 1200 BAUD ASYNCHRONOUS OPERATION.

- (D.A.) 207. LAU:

- WHEN TWO DAS/C LINKS ARE REQUIRED, IT IS RECOMMENDED THAT THE TWO DATA SETS BE MOUNTED IN SEPARATE DATA SERVICE UNITS (DSU) AND POWERED BY SEPARATE INVERTERS.
- WHEN TWO DAS/C LINKS OR RTRS LINKS ARE REQUIRED, IT IS RECOMMENDED THAT THE TWO TERMINAL ADAPTORS USED IN LAU BE ON DIFFERENT CABINET FEEDER BUSES. TERMINAL ADAPTORS IN EQLS: 72,80,88,96,104,112,120 ARE ON THE 'A' BUS AND TERMINAL ADAPTORS ON EQLS: 128,136,144,152,160,168,176 ARE ON 'B' BUS.
- LAU MAY BE EQUIPPED WITH ANY COMBINATION OF MC5D109A1 (TN1087) MC5D118A1(TN1087) AND MC5D117A1(TN1523) CIRCUIT PACKS.

208. UNASSIGNED.

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OSPS APPLICATION SCHEMATIC

DWG SIZE C2	ISSUE 16M
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Lucent Technologies

SD-5D135-01

SHEET  
D2A

EQUIPMENT NOTES (CONT):

209. OSPS DATA SET CABINET:

- OSPS DATA SET CABINET J5D003K TO BE LINE ENGINEERED.
- MAX-CURRENT DRAIN ALLOWED FOR EACH THE -48 VDC TO 115 VAC WP-91652.L21 INVERTER IS 8.3 AMPS EACH.
- IN CASES WHERE THE CURRENT DRAIN FOR DATA SETS IN THE DATA SET CABINET EXCEED THE 2.5 AMPS ALLOWED FOR EACH 300 VA INVERTERS THEN THE LINE ENGINEER WILL SPECIFY AN ALTERNATE 115 V PROTECTED AC POWER SOURCE. THIS ALTERNATE POWER SOURCE SHOULD SUPPLY TWO SEPARATE POWER BUSES WHEN THE DATA SET CABINET IS EQUIPPED WITH EITHER RTRS OR DAS/C LINKS. THIS WILL ALLOW THE DUPLICATED RTRS OR DAS/C LINKS TO BE ON SEPARATED BUSES FOR RELIABILITY.
- IN CASES WHERE ALTERNATE 115 VAC POWER SOURCE ARE SPECIFIED, THE LINE ENGINEER WILL SPECIFY KS14532 POWER CORDS TO CONNECT TO THE KS22291-L1 POWER STRIPS OR EQUIVALENT POWER CORDS.
- FAR END DATA SETS SHOULD BE THE SAME AS THE DATA SETS SPECIFIED IN THE OSPS OR 5ESS DATA SET CABINET.
- DATA SETS ARE ALWAYS REQUIRED FOR OAP APPLICATIONS.
- KS22291 POWER STRIPS ARE EQUIPPED WITH HUBBEL CAT NO. 7395 MALE CONNECTOR ON INPUT POWER CONNECTOR.

EQUIPMENT NOTES (CONT):

209. OSPS DATA SET CABINET (CONT):

8. (D.A.) RECOMMENDED DATA SETS AND CURRENT DRAINS:

FEATURE	BAUD RATE	DIGITAL OR ANALOG	SYNC/ ASYNC	DATA SET TYPE	RANGE	CURRENT DRAIN
EIS DAS/C, RTRS	9.6K	A	SYNC	AT&T 2096A * GANDALF FASTRAK 96 OR EQUIVALENT	UNLIMITED UNLIMITED	.68A .113A
		D	SYNC	AT&T 2596 OR EQUIVALENT	UNLIMITED	.055A
EIS	9.6K	D/DBU	SYNC	AT&T PARADYNE 3610 AT&T PARADYNE 3000 CARRIER E/W 16 3611 (DBU)	UNLIMITED	.1A 1.65A
OAP	9.6K	A	ASYNC	RM3120 AT&T 2096 **	< 5 MILES UNLIMITED	.05A .09A
			SYNC	AT&T 2096A ***	UNLIMITED	.77A
		D	SYNC	AT&T 2596 OR EQUIVALENT	UNLIMITED	.055A
HOBIC/ HOBIS	1.2K	A	ASYNC	GANDALF 3120 AT&T 202T* OR EQUIVALENT	< 5 MILES UNLIMITED	.05A .043A
AUTOQUOTE ***	110/300	A	ASYNC	AT&T 4000 OR EQUIVALENT	UNLIMITED	.024A
AMLB	9.6K	A	SYNC	GANDALF RM3309 AT&T 2096A * GANDALF FASTRAK OR EQUIVALENT	< 8 MILES UNLIMITED UNLIMITED	.05A .77A .113A
			D	SYNC	AT&T 2596 OR EQUIVALENT	UNLIMITED
	19.2K	A	SYNC	GANDALF RM3309 OR EQUIVALENT	< 4 MILES	.05A
		D	SYNC	AT&T 2596 OR EQUIVALENT	UNLIMITED	.055A
MIS/C	9.6K	A	ASYNC	TELEBIT T1SSA-T1 OR EQUIVALENT	UNLIMITED	.50A
RCOS	4.8K	A	SYNC	AT&T 2048A * OR EQUIVALENT	UNLIMITED	.68A

\* ~~AT&T 829 DAS REQUIRED. 829 DAS CURRENT DRAIN IS .12 A PER UNIT. AT&T 829 DAS MAY BE STAND ALONE OR MOUNTED IN A 46A2 RACK.~~

\*\* ~~TO BE USED WITH COM DESIGN TX700 4 CHANNEL PAD (SEE NOTE 211). GANDALF LDS 5000K RACK AND POWER SUPPLY REQUIRES .63 AMPS.~~

~~THE AT&T 2296 DATA SET HAS REPLACES ALL SYNCHRONOUS DATA SETS FOR THE 3B2 OAP APPLICATIONS.~~

\*\*\* ~~SEE NOTE 243.~~

EQUIPMENT NOTES (CONT):

209. OSPS DATA SET CABINET (CONT):

\*IN THE RANGE COLUMN = LESS THAN

FEATURE	BAUD RATE	DIGITAL/ ANALOG	SYNC/ ASYNC	DATA SET TYPE	RANGE	CURRENT DRAIN	NOTES
EIS DAS/C RTRS	9.6K	A	SYNC	AT&T PARADYNE 3810 AT&T PARADYNE 3811* GANDALF FASTRAK 96 OR EQUIVALENT	UNLIMITED UNLIMITED UNLIMITED	.04A .03A .113A	2,4,8 1,2,8 6,8,9
		D	SYNC	AT&T PARADYNE 3610 AT&T PARADYNE 3611* OR EQUIVALENT	UNLIMITED UNLIMITED	.1A .1A	3,4,8 1,3,8
EIS	9.6K	D/DBM	SYNC	AT&T PARADYNE 3610 OR 3611 DBM	UNLIMITED	.1A .1A	3,4,8 1,3,8
OAP	9.6K	A	ASYNC	GANDALF RM3120 AT&T PARADYNE 3810 AT&T PARADYNE 3811* OR EQUIVALENT	*5 MILES UNLIMITED UNLIMITED	.05A .04A .03A	5,7,8,9 2,4,8 1,2,8
HOBIC/ HOBIS	1.2K	A	ASYNC	GANDALF RM3120 OR EQUIVALENT	*5 MILES	.05A	5,7,8,9
AUTOQUOTE	100/ 300	A	ASYNC	AT&T PARADYNE 3810 AT&T PARADYNE 3811* OR EQUIVALENT	UNLIMITED UNLIMITED	.04A .03A	2,4,8 1,2,8
AMLB	9.6K	A	SYNC	GANDALF RM 3309 AT&T PARADYNE 3810 AT&T PARADYNE 3811* GANDALF FASTRAK 96 OR EQUIVALENT	*8 MILES UNLIMITED UNLIMITED UNLIMITED	.05A .04A .03A .113A	5,7,8,9 2,4,8 1,2,8 6,8,9
			D	SYNC	AT&T PARADYNE 3610 AT&T PARADYNE 3611* OR EQUIVALENT	UNLIMITED UNLIMITED	.1A .1A
	9.6K	A	SYNC	GANDALF RM 3309 AT&T PARADYNE 3480 OR EQUIVALENT	*4 MILES UNLIMITED	.05A 1.6A	5,8,9 4,8
		D	SYNC	AT&T PARADYNE 3610 AT&T PARADYNE 3611* OR EQUIVALENT	UNLIMITED UNLIMITED	.1A .1A	3,4,8 1,3,8
MIS/C	9.6K	A	ASYNC	TELEBIT T1SSA-T1 OR EQUIVALENT	UNLIMITED	.50A	8,9
RCOS	4.8K	A	SYNC	AT&T PARADYNE 3810 AT&T PARADYNE 3811* OR EQUIVALENT	UNLIMITED UNLIMITED	.04A .03A	2,4,8 1,2,8
NOTIS/ NSCS	4.8K	D	SYNC	AT&T PARADYNE 3610 AT&T PARADYNE 3611* OR EQUIVALENT	UNLIMITED UNLIMITED	.1A .1A	3,4,8 1,3,8

NOTES:

- THESE DATA SETS ARE RACK MOUNTABLE AND REQUIRE THE AT&T PARADYNE COMSPHERE 3000 CARRIER. THE CARRIER HAS A TOTAL OF 17 SLOTS. THE FIRST SLOT 0, IS RESERVED FOR A SHARED DIAGNOSTIC UNIT (SDU) WHILE THE REMAINING 16 SLOTS CAN HOUSE MODEMS. THE CARRIER FULLY EQUIPPED REQUIRES 1.65A.
- THE AT&T PARADYNE 3810/3811 MODEMS REPLACE THE AT&T 2296. THESE MODEMS PROVIDE AN ANALOG 2-WIRE/4-WIRE LEASED LINE DATA LINK.
- THE AT&T PARADYNE 3610/3611 DATA SET UNITS REPLACE THE AT&T 2596 AND MAY BE USED FOR DIGITAL APPLICATIONS.
- THE AT&T PARADYNE 3480, 3610 & 3810 ARE STAND ALONE MODEMS.
- THESE DATA SETS REQUIRE GANDALF 3000K AD RACK WITH POWER SUPPLY WHICH REQUIRES .65 AMPS.
- GANDALF RM960DA MAY BE STAND ALONE USING GANDALF LH96 MOUNTING OR MAY BE MOUNTED IN A GANDALF RM8 RACK WHICH REQUIRES 1.3 AMPS.
- GANDALF RACK MOUNTED DATA SETS MAY BE REPLACED WITH STAND ALONE UNITS: RM3120 WITH LDS120, RM3419 WITH LDM419 AND RM3309 WITH LDS309A (SEE ENG NOTE 66).
- DATA SETS ARE ALWAYS REQUIRED WHEN RS232 INTERFACE IS OVER 50 FEET FROM TERMINAL ADAPTER (DIL7A3, STA ETC.).

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OSPS APPLICATION SCHEMATIC	DWG SIZE	ISSUE
	C2	16M
Lucent Technologies	SD-5D135-01	
		SHEET D2B

EQUIPMENT NOTES (CONT):

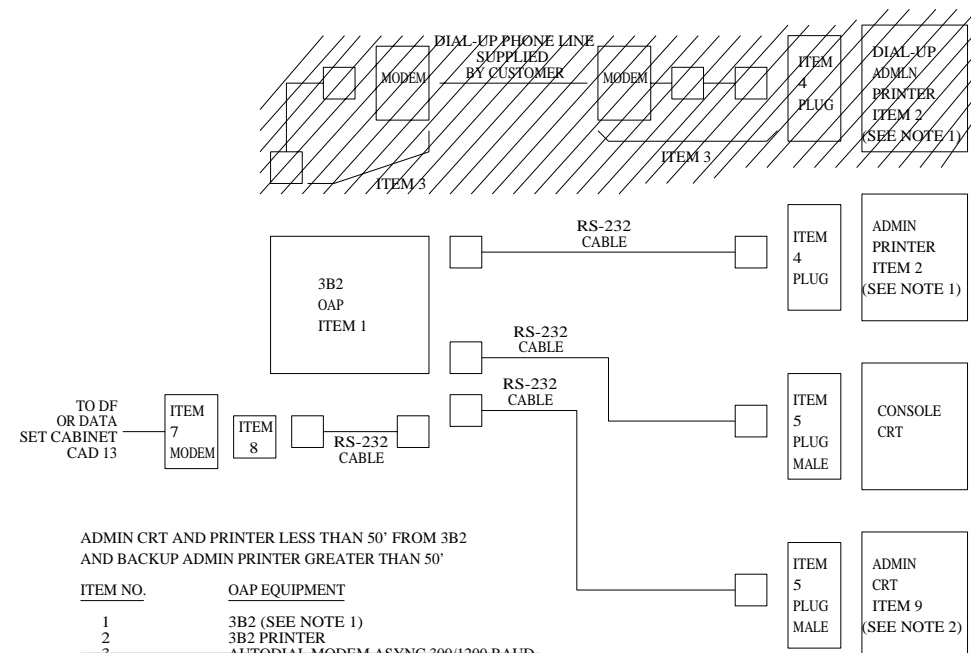
209. (CONT) ~~AT&T 2096 MAY BE STAND ALONE OR MOUNTED IN 64A3 RACK WITH H POWER SUPPLY THAT REQUIRES 5.12 AMPS WHEN FULLY EQUIPPED.~~  
~~AT&T 2596 MAY BE STAND ALONE OR MOUNTED IN A Z108A1 MULTIPLE MOUNTING WITH WP90131 POWER PACK THAT REQUIRES .018 AMPS. THE 2596 STAND ALONE IS MODEL 2596ALTA/3. THE MULTIPLE MOUNT VERSION IS MODEL 2596AL1A/2.~~

THE AT&T PARADYNE 3810/3811 MODEMS REPLACE THE AT&T 2296. THESE MODEMS PROVIDE AN ANALOG TWO-WIRE/FOUR-WIRE LEASED LINE DATA LINK. THE AT&T PARADYNE 3610/3611 DATA SERVICE UNITS REPLACE THE AT&T 2596 AND MAY BE USED FOR DIGITAL APPLICATIONS. THE AT&T PARADYNE 3610 AND 3810 ARE STAND ALONE MODEMS. THE AT&T PARADYNE 3611 AND 3811 ARE RACK MOUNTABLE AND REQUIRE THE AT&T COMPHERE 3000 CARRIER. THE CARRIER HAS A TOTAL OF 17 LOTS. THE FIRST SLOT, SLOT 0, IS RESERVED FOR THE SHARED DIAGNOSTIC UNIT (SDU) WHILE THE REMAINING 16 SLOTS CAN HOUSE MODEMS. THE MODEMS REQUIRE A V.32 COMPATIBLE FACILITY FOR RELIABLE OPERATION. THE MODEMS ND CARRIER MAY BE ORDERED PER THE ED5D22-33 DRAWING.

GANDALF FASTRAK 96 RM960DA MAY BE STAND ALONE OR MOUNTED IN GANDALF RM8 RACK THAT REQUIRES 1.3 AMPS.

GANDALF RACK MOUNTED DATA SETS MAY BE REPLACED WITH STAND ALONE UNITS. RM3120 WITH LDS120, AND RM3309 WITH LDS309A.

210. TYPICAL OAP EQUIPMENT. EQUIPMENT LIST REQUIRED FOR 3B2 TERMINAL



ADMIN CRT AND PRINTER LESS THAN 50' FROM 3B2  
 AND BACKUP ADMIN PRINTER GREATER THAN 50'

ITEM NO.	OAP EQUIPMENT
1	3B2 (SEE NOTE 1)
2	3B2 PRINTER
3	AUTODIAL MODEM ASYNC 300/1200 BAUD
4	PLUG TO ADMIN PRINTER
5	PLUG TO ADMIN CRT
6	PLUG TO ACU/MODEM
7	AT&T PARADYNE 38000 SERIES OR GANDALF RM3120 ASYNC
8	MODEM ADAPTER PLUG FOR GANDALF LDS120 MODEM TRW NO. 2322125033 (NOT NECESSARY FOR AT&T PARADYNE MODEMS)
9	ADMIN CRT

NOTES:

- SEE ED-5D522-33 DRAWING TO ORDER OAP EQUIPMENT.
  - 2ND CRT IS OPTIONAL FOR 5E4(1) OFFICES AND IS REQUIRED FOR 5E4(2) AND LATER GENERIC OFFICES.
  - OAP SPARING, AS SUPPORTED FROM A CENTRALLY LOCATED SPARING CENTER (WHERE APPLICABLE) ARE AS FOLLOWS:
 

3B2/400 COMPLETE 3BS	1 FOR EVERY 40 OAPS
3B2/400 SYSTEM BOARDS	1 FOR EVERY 30 OAPS
3B2/400 POWER SUPPLIES	1 FOR EVERY 30 OAPS
3B2/400 MEMORY CARDS	1 FOR EVERY 30 OAPS
EPORIS CARDS	1 FOR EVERY 30 OAPS
ISC CARDS	1 FOR EVERY 30 OAPS
FLOPPY DISK DRIVES	1 FOR EVERY 60 OAPS
CARTRIDGE TAPE DRIVES	1 FOR EVERY 60 OAPS
72 MEG HARD DISK DRIVES	1 FOR EVERY 30 OAPS
AT&T 605 TERMINALS	1 FOR EVERY 40 OAPS
AT&T 572 PRINTERS	1 FOR EVERY 30 OAPS
SCSI TAPE DRIVES	1 FOR EVERY 60 OAPS
3B2/522 COMPLETE	1 FOR EVERY 40 OAPS
3B2/522 SYSTEM BOARDS	1 FOR EVERY 30 OAPS
3B2/522 POWER SUPPLIES	1 FOR EVERY 30 OAPS
3B2/522 MEMORY CARDS	1 FOR EVERY 30 OAPS
AT&T 705 TERMINALS	1 FOR EVERY 40 OAPS
- REGIONAL WORK CENTERS, WHICH TYPICALLY SUPPORT 6 OAPS, SHOULD HAVE 1 SPARE OF EACH ITEM LISTED ABOVE.

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OSPS APPLICATION SCHEMATIC	DWG SIZE	ISSUE
	C2	16M
Lucent Technologies	SD-5D135-01	SHEET D2C



EQUIPMENT NOTES (CONT):

212. UNASSIGNED

213. ALTERNATE POWER SOURCES FOR BST'S ONLY ARE AS FOLLOWS:

QTY BST	INPUT CABLE LENGTH	OUTPUT CABLE LENGTH	SUPPLIER	SUPPLIER CODE
1	6'	ONE-6'	JAMES ELECTRONICS INC., CHICAGO, IL	6463-080
2	6'	TWO-7'		7041-480
3	6'	THREE-9'		7041-580

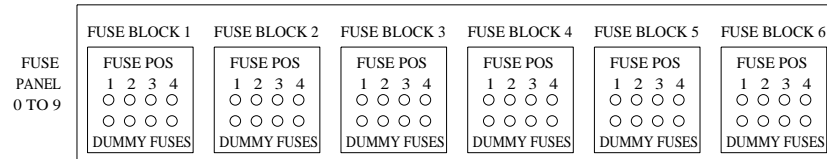
NOTES:

- INPUT POWER IS 110VAC, 60 HZ. OUTPUT IS -48VDC.
- UNITS ARE CAPABLE OF WALL OR TABLE MOUNTING.
- ENGINEERING AND ORDERING INFORMATION WILL BE CONTAINED IN ED-5D522-33.

214. POWER DISTRIBUTION IN OSC P.D. CABINET:

- LOAD FUSES WILL BE SPECIFIED BY THE LINE ENGINEER.
- 74E TYPE FUSES SHOULD BE USED IN POWER DISTRIBUTION PANEL WHEN MORE THAN ONE VDT IS ASSIGNED TO A FUSE.
- 74F TYPE FUSES SHOULD BE USED IN POWER DISTRIBUTION PANEL TO FUSE OPC DATA SET CABINETS, RISLU CABINETS, LTP CABINETS AND ED-5D627-30 FUSE PANEL.
- THE MAXIMUM NUMBER OF BST'S OF VDT'S SHOULD BE ASSIGNED PER FUSE AT POWER DISTRIBUTION PANELS.
- FUSE PANEL ED-5D627-30 NUMBER AS SHOWN:

FUSE PANEL NUMBERING ARRANGEMENT ED-5D627



6. THE MAX. NO. OF BST'S PER FUSE IN THE ED-5D627-30 FUSE PANEL IS 4. THE MAX. NO. OF VDT'S PER FUSE IN THE ED-5D627-30 FUSE PANEL IS 1. THE MAX. NO. OF BST'S PER FUSE IN THE ED-83024-30 P.D. PANEL IS 4. THE MAX. NO. OF VDT'S PER FUSE IN THE ED-83024-30 P.D. PANEL IS 4.

7. P.D. TO RISLU FEEDER LEAD DESCRIPTION:

BUS	RISLU CABINET NO.	RISLU CAB.	FEEDER NO.
-48(A,B)	(1,2,3,4)	R	(1,2,3,4,5,6,7,8)

EXAMPLE:

BUS	RISLU CAB. NO.	FEEDER
-48	A 1 R	7
-48	RISLU CAB. NO.	

BUS	RISLU CABINET NO.	RISLU CAB.	FEEDER NO.
RTN(A,B)	(1,2,3,4)	R	(1,2,3,4,5,6,7,8)

EXAMPLE: RTN B 1 R 7

EQUIPMENT NOTES (CONT):

215. HARDWARE REQUIRED FOR TERMINATION OF POWER FEEDER IN THE OPERATOR POSITION CONTROL P.D. IS FOUND IN J5D003H.

216. RISLU CABINETS HAVE 8 INPUT FEEDERS AND REQUIRE A AND B BUSES. FOR THE FIRST RISLU CABINET A 6 FEEDER GROUP IS APPLIED TO THE A BUS AND 2 FEEDER GROUP TO THE B BUS. WHEN ADDITIONAL RISLU CABINETS ARE PLACED IN LINE UP ALTERNATE THE 6 FEEDER AND 2 FEEDER GROUPS BETWEEN THE A AND B BUSES. SEE SD-5D134-01.

217. AT OSPS SITES SHARING THE SAME POWER PLANT WITH A SESS<sup>®</sup> SYSTEM, THE OSPS P.D. CABINET AND BST'S OR VDT'S WILL BE OUTSIDE SESS<sup>®</sup> GROUND.

218. FOR GROUND WINDOW JUNCTION BAR LOCATED OVER POWER DISTRIBUTION CABINET SEE ED-4C471-30 DRAWING.

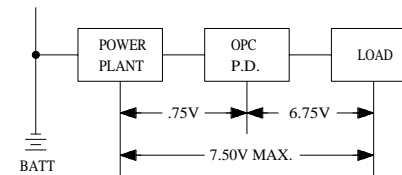
219. FEEDERS FROM POWER DISTRIBUTION PANEL ARE TO BE BALANCED ACROSS THE A AND B BUS FOR OSC SITES THAT SHARE POWER PLANT WITH SESS<sup>®</sup> AND WHEN OPERATOR POSITION CONTROL P.O. IS LOCATED WITH BST'S AND VDT'S.

220. EQUIPMENT GROUND TO TERMINATE AT CENTRAL OFFICE GROUND BUS ON SAME FLOOR AS BST'S OR VDT'S.

221. RECOMMENDED POWER DISTRIBUTION PANEL FOR USE WITH LINEAGE<sup>™</sup> 2000 POWER PLANT IN REMOTE OSC SITES WITH DEDICATED POWER PLANT AND WITHOUT OPC P.D. IS ED-83018-30.

222. APPLICATIONS

- REMOTE OSC SITE WITH DEDICATED POWER PLANT AND LOCAL OPERATOR POSITION CONTROL (OPC) P.D.
- OSC SITE SHARING POWER PLANT WITH SESS<sup>®</sup> AND OPC P.D. REMOTED WITH BST'S OR VDT'S.



MAX. CABLE LOOP FEET FROM OPC P.D. TO LOAD

CABLE SIZE	1 VDT PER FUSE	2 VDT'S PER FUSE	3 VDT'S PER FUSE	4 VDT'S PER FUSE
#14	1000' **	500' **	350' **	250' **
#12	1700'	850'	550'	400'
#10	2700'	1350'	900'	650'
#8	3280' *	2150'	1450'	1050'
#6	----	3280' *	2300'	1700'
#4	----	----	3280' *	2750'
#2	----	----	----	3280' *

MAX. CABLE LOOP FEET

CABLE SIZE	1 BST PER FUSE	2 BST'S PER FUSE	3 BST'S PER FUSE	4 BST'S PER FUSE
#14	3280' *	3280' *	2700'	2100'
#12	----	----	3280' *	3280' *

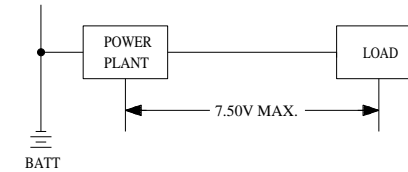
\* MAX. DISTANCE ALLOWED FOR DSL FROM ISLU TO BST'S OR VDT'S.

\*\* 74E 15 AMP FUSE REQUIRED AT P.D. PANEL.

EQUIPMENT NOTES (CONT):

222. (CONT)

3. REMOTE OSC SITE WITH DEDICATED POWER PLANT WITHOUT OPERATOR POSITION CONTROL P.D. CABINET. (MAX. 600 CABLE LOOP FEET FROM POWER DISTRIBUTION TO BST'S OR VDT'S).



MAX. CABLE LOOP FEET

CABLE SIZE	1 VDT PER FUSE	2 VDT'S PER FUSE	3 VDT'S PER FUSE	4 VDT'S PER FUSE
#14	800'	600'	400'	300'
#12	---	800'	640'	480'
#10	---	---	800'	760'
#8	---	---	---	800'

#14 GA CABLE TO BE USED FOR ALL BST APPLICATIONS (UP TO 4 BST'S) MAX. CABLE LOOP FEET TO BE 800'

223. CURRENT DRAINS FOR BST ARE:

- 0.3 AMP - 10% AT 42.5 VIN LIST 1
- 0.4 AMP - 10% AT 55.0 VIN LIST 2

VDT ARE:

- 1.07 AMP - 10% AT 42.5 VIN LIST 1
- 2.40 AMP - 10% AT 55.0 VIN LIST 2

RISLU CABINET LIST 1 FEEDER CURRENT DRAINS AT 52.0V ARE:

15.0 AMPS

RISLU CABINET LIST 2 FEEDER CURRENT DRAINS AT 42.5V ARE:

FEEDER 1 0.80 AMPS	FEEDER 5 1.30 AMPS
FEEDER 2 3.35 AMPS	FEEDER 6 3.55 AMPS
FEEDER 3 0.80 AMPS	FEEDER 7 1.80 AMPS
FEEDER 4 3.35 AMPS	FEEDER 8 3.55 AMPS

TOTAL 18.6 AMPS

224. TYPICAL GROUNDING ARRANGEMENT FOR REMOTE OSC SITE WITH DEDICATED POWER PLANT AND LOCAL OPC P.D.

NOTES:

- FURNISHED BY CUSTOMER.
- GROUNDING METHODS CALLED FOR IN BSP 802-001-180 AND BSP 802-001-195 SHOULD BE FOLLOWED EXCEPT WHERE SUPERSEDED HEREIN.
- ALL WIRE LUGS AND CONNECTORS TO BE KS-15977 AND KS-21500 TPE OR APPROVED EQUIVALENT.

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OSPS APPLICATION SCHEMATIC

DWG SIZE	ISSUE
C2	8M
Lucent Technologies	SD-5D135-01
	SHEET D4A

0 1 2 3 4 5 6 7 8 9

EQUIPMENT NOTES (CONT):

224. (CONT)

NOTES (CONT):

- 4. THE ESS DC GROUNDING MUST BE ISOLATED FROM THE BUILDING SYSTEM. IN ORDER TO ACCOMPLISH THIS THE FOLLOWING MUST BE TAKEN INTO CONSIDERATION:
  - A. ALL EQUIPMENT CABINETS IN THE OSPS SHALL BE BOLTED TO THE FLOOR AS SHOWN IN ED-1A210-11. EXTREME CARE MUST BE EXERCISED TO INSURE THAT THE EQUIPMENT CABINETS ARE INSULATED FROM BUILDING GROUND BY INSULATING THE ANCHOR BOLTS FROM THE CABINET. THIS PREVENTS ANY POSSIBILITY OF GROUNDING THE CABINETS TO REINFORCING STEEL, UNDER FLOOR DUCT, STRUCTURAL STEEL, BURIED PIPING, ECT. THE EFFECTIVENESS OF EACH INSULATED BOLT SHOULD BE VERIFIED BY TEST AT INSTALLATION.
  - B. NO METALLIC CONNECTION OF ANY KIND SHALL BE MADE BETWEEN OSPS EQUIPMENT CABINETS AND ANY PART OF THE BUILDING STRUCTURE EXCEPT AS DESCRIBED HEREIN.
  - C. ALL CABLE RACKS SUPPORTED ON OSPS CABINETS SHALL BE INTERRUPTED OR INSULATED AT ALL POINTS WHERE THEY LEAVE THE OSPS CABINETS SO AS TO AVOID ANY POSSIBILITY OF UNWANTED GROUNDS BEING BROUGHT INTO THE AREA. THIS ALSO APPLIES TO END GUARDS AND STANCHIONS.
  - D. THE "CENTRAL OFFICE" GROUND SHOULD BE CONNECTED TO THE OSPS SYSTEM AS FOLLOWS:
    - 1. THE ONLY POINT OF CONNECTION IS THE MAIN GROUND BUS SPLICE PLATES LOCATED OVER THE POWER DISTRIBUTION CABINET.
    - 2. ALL EQUIPMENT CABINETS IN THE OSPS AREA WILL BE GROUNDED THROUGH THE SAME SOURCE BY MEANS OF A COPPER CONDUCTOR (NO. 6 STRANDED) EXTENDING FROM THE MAIN GROUND BUS THROUGHOUT THE OSPS LINEUP.
- 5. ALL -48 VOLT RETURN FEEDERS FOR OSPS ARE TO BE ISOLATED FROM THE OSPS CABINETS. ALL '0' BUS RETURNS IN A LINE-UP ARE MADE COMMON AND ALL '1' BUS RETURNS IN THE SAME LINE-UP ARE MADE COMMON.
- 6. THE MAIN GROUND BUS IN THE 'GROUND WINDOW' (BSP 802-001-195, PART 4) IS COMBINED WITH THE -48 VOLT RETURN DISTRIBUTION BUS BAR WHICH IS LOCATED AT P.D., OR WITH THE -48 RETURN DISTRIBUTION BUS BAR LOCATED IN THE POWER PLANT.
- 7. THE BUILDING GROUND REFERENCE FOR THE SINGLE POINT GROUND IS ESTABLISHED BY RUNNING A CONDUCTOR, TO BE DETERMINED BY THE LINE ENGINEER, BETWEEN THE MAIN GROUND BUS AND THE C.O. GROUND BUS DEFINED IN BSP 802-001-195.
- 8. IN NEW BUILDINGS PROVIDE GROUNDING ELECTRODE SYSTEM PER LATEST EDITION OF THE N.E.C. IN EXISTING BUILDINGS USE EXISTING GROUNDING SYSTEM. REF BSP 802-001-180 AND ASSOCIATED APPLICABLE PRACTICES.
- 9. TOLL AND TRANSMISSION EQUIPMENT IS PART OF THE INTEGRATED GROUND PLANE, NOT THE OSPS ISOLATED GROUND PLANE.
- 10. POWER DISTRIBUTION CABINETS FOR OSPS MUST BE GROUNDED WITH A SPECIAL 1/0 AWG WIRE THAT RUNS DIRECTLY TO THE OSPS GROUND WINDOW INSTEAD OF THE NO. 6 AWG GROUND WIRE USED ON ALL OTHER CABINETS.
- 11. POWER FEEDERS TO BE PAIRED IN SAME WIRING TROUGH WHERE EVER POSSIBLE.

EQUIPMENT NOTES (CONT):

224. (CONT)

NOTES (CONT):

- 12. THE BST OR VDT EQUIPMENT GROUND (EG) LEAD SIZE MUST BE LINE ENGINEERED. THE SIZE OF THE EG CONDUCTOR FROM THE C.O. GROUND TO THE BST OR VDT POWER CORD MUST BE THE SAME SIZE AS THE POWER FEEDERS FROM THE POWER DISTRIBUTION TO THE BST OR VDT POWER CORD. THIS CONDUCTOR SIZE IS CALCULATED BASED ON THE AMPERE RATING OF THE OVERCURRENT DEVICE PROTECTING THE CIRCUIT CONDUCTORS. MINIMUM CONDUCTOR SIZE IS 14 GAUGE. FOR EXAMPLE, IF EACH VDT IS POWERED ON A SEPARATE FEEDER, AND EACH IS PROTECTED WITH A 10 AMP FUSE, THEN THE EG LEAD SHOULD BE CAPABLE OF SINKING 10 AMPS. IF 4 VDT'S HAVE THEIR EG LEADS CONNECTED TO ONE CONDUCTOR, AND ARE EACH PROTECTED WITH 10 AMP OVERCURRENT DEVICES, THEN THE EG LEAD SHOULD BE CAPABLE OF SINKING 40 AMPS. A MAXIMUM OF 6 VDT OR BST EG LEADS CAN BE CONNECTED TOGETHER AND ROUTED TO THE C.O. GROUND BUS ON A COMMON EG LEAD. THEREFORE, THE MAXIMUM SIZE EG LEAD RUNNING FROM THE C.O. GROUND BUS TO A GROUP OF VDT'S OR BST'S IS A 6 GAUGE CONDUCTOR ASSUMING THAT EACH TERMINAL IS PROTECTED WITH A 10 AMP FUSE. RULES GOVERNING CABLE SIZE AS RELATED TO TOTAL LOOP LENGTH APPLY AS PER NOTE 222.

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OSPS APPLICATION SCHEMATIC	DWG SIZE	ISSUE
	C2	8M
Lucent Technologies	SD-5D135-01	SHEET D4B

0 1 2 3 4 5 6 7 8 9

EQUIPMENT NOTES (CONT):

230. THE FOLLOWING HEADSETS ARE APPROVED FOR USE WITH THE BST, VDT, AND ACT:
- KS-23653,L1 OPERATORS SET, IN THE EAR TYPE
  - .L2 SUPERVISORS SET, IN THE EAR TYPE
  - .L3 OPERATORS SET, OVER THE EAR TYPE
  - .L4 SUPERVISORS SET, OVER THE EAR TYPE
  - .L5 BINAURAL SET, OVER THE EAR

- KS-22990,L2 AGENT HEADSET WITH CENTER DISCONNECT, OVER THE EAR TYPE
- KS-22915,L2 AGENT HEADSET WITH CENTER DISCONNECT, IN THE EAR TYPE

HEADSETS MUST DRAW A MINIMUM CURRENT OF 30MA AND CANNOT PROVIDE AN ECHO PATH. MUTE BUTTONS OR MUTE KEYS SHOULD ONLY BE OPERATED BY SUPERVISORY PERSONNEL. HEADSETS WITH OPERATOR ACCESSIBLE VOLUME OR GAIN CONTROLS OTHER THAN THOSE LISTED ABOVE ARE NOT RECOMMENDED OR SUPPORTED.

NOTE: HEADSETS OTHER THAN THOSE LISTED ABOVE MAY BE USED, HOWEVER, TO PREVENT HEARING DAMAGE, THESE HEADSETS MUST MEET THE REQUIREMENTS AS LISTED IN THE ABOVE KS SPECS AS TESTED BY KS-23081. QUALIFICATION AND SUPPORT OF ANY OTHER HEADSET IS THE RESPONSIBILITY OF THE VENDOR AND CUSTOMER.

230. THE FOLLOWING HEADSETS ARE APPROVED FOR US WITH THE BST-DA, BST-LS, VDT, AND CST. HEADSETS MUST DRAW A MINIMUM CURRENT OF 30MA AND CANNOT PROVIDE AN ECHO PATH. MUTE BUTTONS OR KEYS SHOULD ONLY BE OPERATED BY SUPERVISORY PERSONNEL.

KS SPECIFICATION: KS-23767; ISSUE 1, APRIL 11, 1990

- LIST 1- COMCODE 406180034 BUTTON TYPE RECEIVER HEADSET WITH EARHOOK AND STABILIZER
- LIST 2- COMCODE 406180042 BUTTON TYPE RECEIVER HEADSET WITH THREE EARLOOPS
- LIST 3- COMCODE 406180067 BUTTON TYPE RECEIVER HEADSET WITH T-BAR TYPE HEADBAND

KS SPECIFICATIONS: KS-23653; ISSUE 3, JUNE 21, 1990

- LIST 1- COMCODE 406216549 IN-EAR TYPE HEADSET
- LIST 2- COMCODE 406216556 OVER THE EAR TYPE HEADSET
- LIST 3- COMCODE 406219907 BUTTON TYPE RECEIVER HEADSET

231. POWER AND SWITCHBOARD (DSL) CABLES FOR BST AND VDT TERMINALS CAN BE INSTALLED ON TOP OF, OR NEXT TO EXISTING POWER AND SWITCHBOARD CABLES IN OSPS OFFICES THAT SHARE WIRING RACKS OR TROUGHS WITH OTHER SWITCHING EQUIPMENT. IT IS RECOMMENDED, HOWEVER, THAT THESE CABLES BE BUNDLED SEPARATELY. IE: OSPS POWER CABLES IN ONE BUNDLE, OSPS SWITCHBOARD (DSL) CABLES IN ANOTHER BUNDLE, PLACED ON TOP OF, OR NEXT TO, EXISTING OFFICE CABLING.

232. THE BASIC SERVICES TERMINAL AND VIDEO DISPLAY TERMINAL AND REPLACEMENT KEY DESIGNATION TABS FOR VDT MACRO KEYS SHOULD BE ORDERED FROM ED-5D522-33 DRAWING.

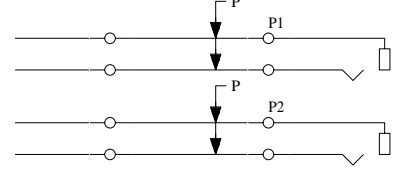
233. 12' POWER CABLE (#14-3 COND) SUPPLIED FROM BST OR VDT,CST TO SPLICE POINT.

234. T & B MODULAR PLUG TCAP8 OR EQUIVALENT TO BE USED ON CAD 9 AT BST OR VDT OR CST END OF CABLE.

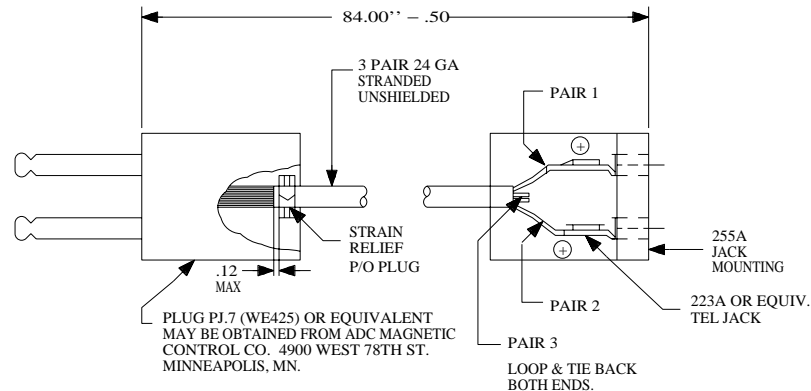
235. CABLE FROM BST TO CCI TERM WHEN REQUIRED IS SPECIFIED BY LINE ENGINEER FROM ED-5D621-11.

236. LINE ENGINEER TO SPECIFY AS SEPARATE ITEM. TWO CABLES REQUIRED PER BST OR VDT POSITION.

EQUIPMENT NOTES (CONT):



SCHEMATIC



NOTES:

1. PAIR 1 & 2 SHALL BE SOLDERED AT JACK END. PLUG IS SUPPLIED WITH WIRE TIPS FOR #2 SCREWS.
2. TWO CABLES REQUIRED PER OPERATOR POSITION. CABLE MUST BE ORDERED SEPARATELY BY LINE ENG.

237. BST AND VDT SPARING:

1. AT EACH DA OSC SITE OR ACD SITE, 2 BST'S PER 60 OPERATOR POSITIONS SHOULD BE MAINTAINED FOR SPARES.
2. AT EACH TA OSC SITE 3 VDT'S PER 100 OPERATOR POSITIONS SHOULD BE MAINTAINED FOR SPARES. THIS IS BASED ON A 30 DAY TURNAROUND INTERVAL (SHIPPING AND REPAIR).

238. BST-DA, BST-LS, VDT'S AND ACT'S AS WELL AS THEIR RESPECTIVE FIRMWARE LOADS (BST-DA, BST-LS, CST, VDT) ARE ORDERED PER ED-5D522-33. KEYCAPS REQUIRED FOR FIELD MODIFICATION OF VDT KEYBOARDS TO ADD NEW FEATURES SHOULD BE ORDERED PER ED-5D522-33.

239. OPERATOR POSITION NUMBERS ARE TO BE CALLED 'POS NO.' AND TO BE FOUR DIGITS LONG. THE FIRST DIGIT INDICATES OSC NUMBER AND THE LAST THREE DIGITS, THE RELATIVE OPERATOR POSITION IN THE OSC. EXAMPLE: 1056.

EQUIPMENT NOTES (CONT):

240. LINE CARD ASSIGNMENTS IN RISLU CABINET.

DEFINITIONS:

1. SUB-LINE GROUP - EACH LINE GROUP IS DIVIDED INTO 4 SUB-LINE GROUPS. EACH SUB-LINE GROUP MAY BE EQUIPPED WITH UP TO 4 LINE CARDS. (SEE FIG. 1 FOR SUB-LINE GROUP NUMBERING).
2. CLASS-1 DSL - PORT THAT USES A 'B' CHANNEL OR A 'B' AND A 'D' CHANNEL (E.G., BST, EIS VDT, AMLB, AUTOQUOTE 'Z' CARD).
3. CLASS-2 DSL - PORT THAT USES ONLY A 'D' CHANNEL (E.G., OAP, DAS/C, ACC, RTRS, HOBIS, EIS MIS/C, HOBIC, AUTOQUOTE 'T' CARD).

TABLE 1  
BREAKDOWN OF LINE GROUPS INTO SUB-LINE GROUPS

LINE GROUP	SUB-LINE GROUP A	SUB-LINE GROUP B	SUB-LINE GROUP C	SUB-LINE GROUP D
0	0	16	32	48
1	1	17	33	49
2	2	18	34	50
3	3	19	35	51
4	4	20	36	52
5	5	21	37	53
6	6	22	38	54
7	7	23	39	55
8	8	24	40	56
9	9	25	41	57
10	10	26	42	58
11	11	27	43	59
12	12	28	44	60
13	13	29	45	61
14	14	30	46	62
15	15	31	47	--

RULES: (5E6 AND EARLIER)

OSPS DATA LINKS ARE CONNECTED TO THE 5ESS SWITCH THROUGH PORTS ON A RISLU OR ISLU. THE RULES FOR THE DATA LINKS TO PORT ASSIGNMENTS ARE INTENDED TO PROVIDE FOR ORDERLY GROWTH AND CONTROL OVER THE FAILURE GROUP (THE GROUP OF DATA LINK INTERFACES THAT MIGHT JOINTLY FAIL).

1. A RISLU/ISLU CAN BE EQUIPPED WITH UP TO 16 LINE GROUP CONTROLLERS (LGC), WHILE EACH LGC HAS ROOM FOR 32 LINE CARDS (LC), ONLY THE EVEN-NUMBERED LC SLOTS MAY BE USED TO TERMINATE OSPS DATA LINKS.
2. THE EVEN-NUMBERED SLOTS OF AN LGC ARE LOGICALLY DIVIDED INTO 4 SUB-LINE GROUPS (SLGS), EACH CONSISTING OF 4 LC SLOTS. FIGURE 1 SHOWS THE GROUPING OF LC SLOTS IN INDIVIDUAL LGCs INTO SLGS.
3. THE SLGS ARE NUMBERED, WITH SLG 0 IN LGC 0, SLG 1 IN LGC 1, CONTINUING TO SLG 15 IN LGC 15. SLG 16 THEN BEGINS IN LGC 0 AND THE PATTERN REPEATS FOR THE NEXT 16 SLGS, AND SO ON.

EQUIPMENT NOTES (CONT):

240. (CONT):

RULES (CONT):

THE NUMBERING OF SLGS INDICATES THE SPECIFIC ORDER SLGS MUST BE GROWN. THUS, THE FIRST 4 OSPS DATA LINKS SHOULD BE INSTALLED IN SLG 0, I.E., SLOTS 16, 18, 20, AND 22 IN LGC 0. THE NEXT 4 DATA LINKS SHOULD BE INSTALLED IN SLG1, OR SLOTS 16, 18, 20, AND 22 IN LGC 1. THIS ASSIGNMENT PATTERN SHOULD BE MAINTAINED FOR ALL 16 LGCs BEFORE A 5TH LC SLOT IS EQUIPPED ON ANY OTHER LGC. ADDITIONAL GROWTH MUST START AT LGC 0 BY EQUIPPING LC SLOTS 8,10,12, AND 14, WHICH MAKE UP SLG 16. THIS ROUTINE MUST BE FOLLOWED FOR EACH OF THE OSPS DATA LINKS IN THE SEQUENCE OF SLG NUMBERS UNTIL THE DESIRED NUMBER OF PORTS ARE EQUIPPED.

GROWING SLGS IN THE ABOVE ORDER AVOIDS UNEVEN DISTRIBUTION OF LCS ACROSS LGCs AND ALLOWS FLEXIBILITY TO SPECIFY THE DESIRED FAILURE GROUP SIZE (4,8,12,16) BY EQUIPPING 1 TO 4 SLGS ON EACH LGC. TABLE 1 OF THIS APPENDIX INDICATED WHICH SLGS ON A RISLU CAN BE USED DEPENDING ON THE NUMBER OF ACTIVE FACILITIES CONNECTED TO THE RISLU. NOTE THAT EACH ACTIVE FACILITY CAN ACCOMMODATE 5 SLGS. GIVEN A LIMIT OF 12 FACILITIES PER RISLU, A RISLU CAN SUPPORT AT MOST 60 SLGS. WITH AN ISLU, HOWEVER, ALL 64 SLGS CAN BE UTILIZED, IF NEEDED, (SEE TABLE 2).

OSPS PORTS CONNECTED TO THE RISLU/ISLU ARE DIVIDED INTO TWO CLASSES BASED UPON THE CHANNEL CAPACITY THEY REQUIRE. CLASS-1 PORTS ARE THOSE REQUIRING AN ISDN B-CHANNEL OR BOTH A B-CHANNEL AND A D-CHANNEL (E.G., VDT/BST, AMLB, AUTOQUOTE 'Z' CARD). CLASS-2 PORTS REQUIRE ONLY A D-CHANNEL (E.G., OAP, DAS/C, ACC, RTRS, HOBIS/HOBIC, AUTOQUOTE 'T' CARD). MOST SLGS CAN TERMINATE UP TO 4 CLASS-1 PORTS. HOWEVER, CERTAIN SLGS ARE NOT ALLOWED TO HAVE MORE THAN 3 CLASS-1 PORTS ASSIGNED TO THEM; THE REMAINING LC SLOTS ON THOSE SLGS ARE RESERVED FOR CLASS-2 PORTS. TABLE 3 SHOWS THE MAXIMUM NUMBER OF CLASS-1 PORTS THAT CAN TERMINATE ON EACH SLG. AGAIN, THERE IS ONE EXCEPTION TO THIS RULE. IF USING AN ISLU AS THE OPC FOR A DEDICATED C-ACD SYSTEM, THERE IS NO DESIGNATION OF ANY PORT BEING DEDICATED TO CLASS-1 OR CLASS-2 BRIS. ANY EVEN NUMBERED PORT MAY BE USED FOR A CLASS-1 OR A CLASS-2 BRI.

EACH SLG SHOULD BE ASSIGNED AS MANY CLASS-1 PORTS AS ALLOWED BEFORE EQUIPPING THE NEXT SLG. OTHERWISE, FACILITY TIME SLOTS MAY BE WASTED. LC SLOTS ALLOCATED FOR, BUT NOT OCCUPIED BY, A CLASS-1 PORT CAN BE USED TO TERMINATE A CLASS-2 PORT AS LONG AS NO MORE THAN TWO CLASS-2 PORTS TERMINATE ON THE SLG. HOWEVER, CLASS-1 PORTS CANNOT BE SUBSTITUTED IN PLACES ALLOCATED FOR CLASS-2 PORTS.

WITHIN EACH SLG CLASS-1 AND CLASS-2 PORTS CAN BE INSTALLED IN ANY ORDER, PROVIDED THAT THE NUMBERS OF CLASS-1 AND CLASS-2 PORTS DO NOT EXCEED THEIR RESPECTIVE LIMITS.

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OSPS APPLICATION SCHEMATIC	DWG SIZE	ISSUE
	C2	16M
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EQUIPMENT NOTES (CONT):

240. (CONT):

~~RISLU/ISLU PORT ASSIGNMENT RULES (5E6 AND EARLIER) (CONT):~~

~~9. TO AVOID SIMULTANEOUS MULTIPLE LINK FAILURES, OBSERVE THE FOLLOWING RULES IN ASSIGNED DATA LINKS FOR WHICH THE POSSIBILITY FOR SUCH OCCURRENCE SHOULD BE MINIMIZED:~~

~~A. TERMINATE THEM ON SEPARATE LINE GROUPS, NOT JUST SEPARATE SUB-LINE GROUPS.~~

~~B. IF POSSIBLE, THE SELECTED LINE GROUPS SHOULD BE AT LEAST FIVE LINE GROUPS APART. (E.G., LG 0 AND LG 5).~~

~~10. THE USE OF 'T' INTERFACE CARDS RESTRICTS THE DISTANCE FROM THE RISLU TO THE BST-DA/BST-LS/VDT/CST/LAU/DISDNI TO A MAXIMUM OF 1 KM (.62 MILES) WITHIN THE SAME BUILDING. THE T-CARD RATES A TRANSMISSION LOSS OF 6 DB AT 96 KILOHERTZ; GREATER LOSS CAN LESSEN THE DISTANCE ALLOWED BETWEEN THE RISLU AND THE ISDN TERMINAL. FOR MORE INFORMATION, SEE THE ISDN CUSTOMER PREMISES PLANNING GUIDE, 533-700-100, AVAILABLE THROUGH CIC. THE TERM 'DSL' IS USED THROUGHOUT THIS DOCUMENT TO IDENTIFY ISDN DIGITAL LINES, WHICH INCLUDE BASIC RATE INTERFACES (BRIS), AND OTHER INTERFACE TYPES.~~

240. (CONT):

RISLU/ISLU PORT ASSIGNMENT RULES (5E7) AND LATER

OSPS DATA LINKS ARE CONNECTED TO THE 5ESS SWITCH THROUGH PORTS ON A RISLU OR ISLU. THE RULES FOR THE DATA LINKS TO PORT ASSIGNMENTS ARE INTENDED TO PROVIDE FOR ORDERLY GROWTH AND CONTROL OVER THE FAILURE GROUP (THE GROUP OF DATA LINK INTERFACES THAT MIGHT JOINTLY FAIL). THESE RULES ARE SUMMARIZED BY THE FOLLOWING LIST OF ITEMS AND DETAILED IN THE OSPS APPLICATION SCHEMATICS.

1. A RISLU/ISLU CAN BE EQUIPPED WITH UP TO 16 LINE GROUP CONTROLLERS (LGC). WHILE EACH LGC HAS ROOM FOR 32 LINE CARDS (LC), ONLY THE EVEN-NUMBERED LC SLOTS MAY BE USED TO TERMINATE OSPS DATA LINKS.
2. THE EVEN-NUMBERED SLOTS OF AN LGC ARE LOGICALLY DIVIDED INTO 4 SUB-LINE GROUPS (SLGS), EACH CONSISTING OF 4 LC SLOTS. FIGURE 1 SHOWS THE GROUPING OF LC SLOTS IN INDIVIDUAL LGCs INTO SLGS.
3. THE SLGS ARE NUMBERED, WITH SLG 0 IN LGC 0, SLG 1 IN LGC 1 CONTINUING TO SLG 15 IN LGC 15. SLG 16 THEN BEGINS IN LGC 0 AND THE PATTERN REPEATS FOR THE NEXT 16 SLGS, AND SO ON.
4. THE NUMBERING OF SLGS INDICATES THE SPECIFIC ORDER SLGS MUST BE GROWN. THUS, THE FIRST 4 OSPS DATA LINKS SHOULD BE INSTALLED IN SLG 0, I.E., SLOTS 16,18,20, AND 22 IN LGC 0. THE NEXT 4 DATA LINKS SHOULD BE INSTALLED IN SLG 1, OR SLOTS 16,18,20, IN LGC 1. THIS ASSIGNMENT PATTERN SHOULD BE MAINTAINED FOR ALL 16 LGCs BEFORE A 5TH LC SLOT IS EQUIPPED ON ANY OTHER LGC. ADDITIONAL GROWTH MUST START AT LGC 0 BY EQUIPPING LC SLOTS 8,10,12, AND 14, WHICH MAKE UP SLG 16. THIS ROUTINE MUST BE FOLLOWED FOR EACH OF THE OSPS DATA LINKS IN THE SEQUENCE OF SLG NUMBERS UNTIL THE DESIRED NUMBER OF PORTS ARE EQUIPPED.
5. GROWING SLGS IN THE ABOVE ORDER AVOIDS UNEVEN DISTRIBUTION OF LCS ACROSS LGCs AND ALLOWS FLEXIBILITY TO SPECIFY THE DESIRED FAILURE GROUP SIZE (4,8,12,16) BY EQUIPPING 1 TO 4 SLGS ON EACH LGC. TABLE 2 INDICATES WHICH SLGS ON A RISLU CAN BE USED DEPENDING ON THE NUMBER OF ACTIVE FACILITIES CONNECTED TO THE RISLU. NOTE THAT EACH ACTIVE FACILITY CAN ACCOMMODATE 5 SLGS. GIVEN A LIMIT OF 8 FACILITIES PER RISLU, A RISLU CAN SUPPORT AT MOST 40 SLGS. WITH AN ISLU, HOWEVER, ALL 64 SLGS CAN BE UTILIZED, IF NEEDED.

EQUIPMENT NOTES (CONT):

240. (CONT):

RISLU/ISLU PORT ASSIGNMENT RULES (5E7) AND LATER

6. OSPS PORTS CONNECTED TO THE RISLU/ISLU ARE DIVIDED INTO TWO CLASSES BASED UPON THE CHANNEL CAPACITY THEY REQUIRE. CLASS-1 PORTS ARE THOSE REQUIRING AN ISDN B-CHANNEL OR BOTH A B-CHANNEL AND D-CHANNEL (E.G., VDT/BST, AMLB, AUTOQUOTE 'Z' CARD). CLASS-2 PORTS REQUIRE ONLY A D-CHANNEL (E.G., OAP, DAS/C, ACC, RTRS, HOBIS/HOBIC, AUTOQUOTE 'T' CARD.) MOST SLGS CAN TERMINATED UP TO 4 CLASS-1 PORTS. HOWEVER, CERTAIN SLGS ARE NOT ALLOWED TO HAVE MORE THAN 3 CLASS-1 PORTS ASSIGNED TO THEM; THE REMAINING LC SLOTS ON THOSE SLGS ARE RESERVED FOR CLASS-2 PORTS. TABLE 3 SHOWS THE MAXIMUM NUMBER OF CLASS-1 PORTS THAT CAN TERMINATE ON EACH SLG.

7. EACH SLG SHOULD BE ASSIGNED AS MANY CLASS-1 PORTS AS ALLOWED BEFORE EQUIPPING THE NEXT SLG. OTHERWISE FACILITY TIME SLOTS MAY BE WASTED. LC SLOTS ALLOCATED FOR, BUT NOT OCCUPIED BY, A CLASS-1 PORT CAN BE USED TO TERMINATE A CLASS-2 PORT AS LONG AS NO MORE THAN TWO CLASS-2 PORTS TERMINATE ON THE SLG. HOWEVER, CLASS-1 PORTS CANNOT BE SUBSTITUTED IN PLACES ALLOCATED FOR CLASS-2 PORTS.

8. WITHIN EACH SLG, CLASS-1 AND CLASS-2 PORTS CAN BE INSTALLED IN ANY ORDER, PROVIDED THAT THE CLASS-2 PORT DOES NOT USE THE HIGHEST-NUMBER SLOT (E.G., SLOT 22 IN SLG 0) AND THE TOTAL NUMBER OF CLASS-1 PORTS DOES NOT EXCEED THE MAXIMUM ALLOWED FOR THAT SLG.

9. TO AVOID SIMULTANEOUS MULTIPLE LINK FAILURES, OBSERVE THE FOLLOWING RULES IN ASSIGNED DATA LINKS FOR WHICH THE POSSIBILITY FOR SUCH OCCURRENCE SHOULD BE MINIMIZED:

A. TERMINATE THEM ON SEPARATE LINE GROUPS, NOT JUST SEPARATE SUB-LINE GROUPS.

B. IF POSSIBLE, THE SELECTED LINE GROUPS SHOULD BE AT LEAST FIVE LINE GROUPS APART. (E.G., LG 0 AND LG 5).

10. THE USE OF 'T' INTERFACE CARDS RESTRICTS THE DISTANCE FROM THE RISLU TO THE BST-DA/BST-LS/VDT/CST/LAU/DISDNI TO A MAXIMUM OF 1 KM (.62 MILES) WITHIN THE SAME BUILDING. THE T-CARD RATES A TRANSMISSION LOSS OF 6 DB AT 96 KILOHERTZ; GREATER LOSS CAN LESSEN THE DISTANCE ALLOWED BETWEEN THE RISLU AND THE ISDN TERMINAL. FOR MORE INFORMATION, SEE THE ISDN CUSTOMER PREMISES PLANNING GUIDE, 533-700-100, AVAILABLE THROUGH CIC. THE TERM 'DSL' IS USED THROUGHOUT THIS DOCUMENT TO IDENTIFY ISDN DIGITAL LINES, WHICH INCLUDE BASIC RATE INTERFACES (BRIS), AND OTHER INTERFACE TYPES.

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OSPS APPLICATION SCHEMATIC

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D15B

EQUIPMENT NOTES (CONT):  
240. (CONT)

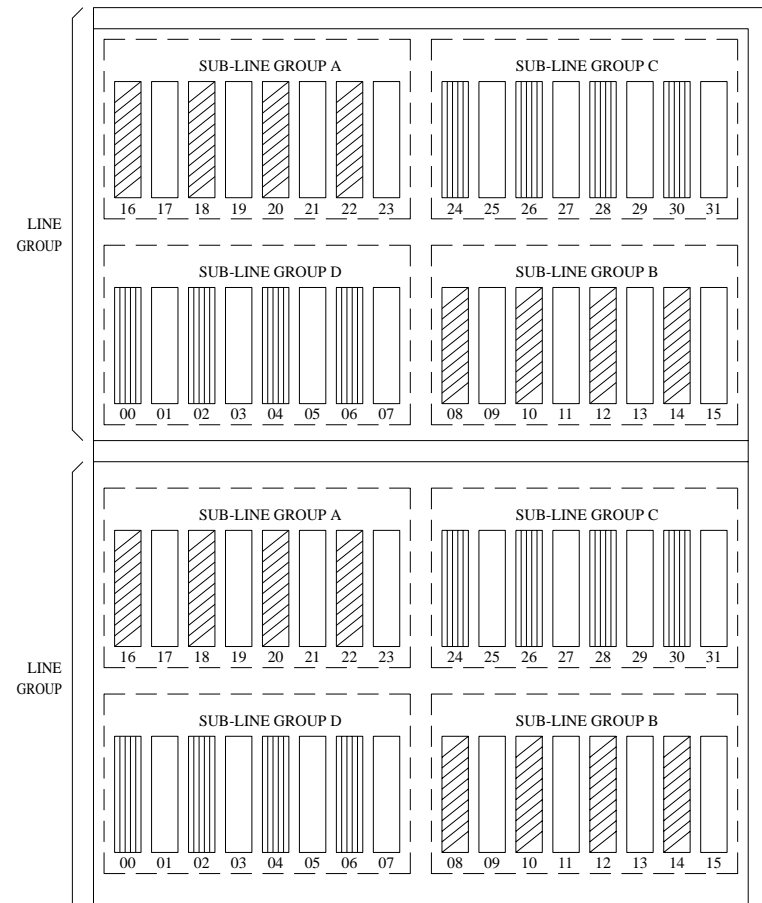


FIGURE 1  
ISLU DRAWER

CARD SLOTS THAT MAY BE EQUIPPED WITH LINE CARDS

EQUIPMENT NOTES (CONT):  
240. (CONT)

TABLE 2  
USABLE SUB-LINE GROUPS

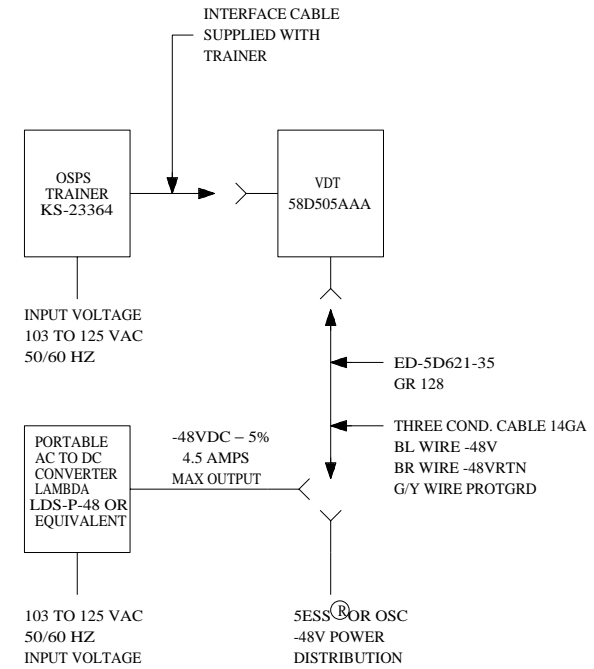
NUMBER OF ACTIVE FACILITIES	USABLE SUB-LG'S	
	FROM	TO
1	0	4
2	0	9
3	0	14
4	0	19
5	0	24
6	0	29
7	0	34
8	0	39
9	0	44
10	0	49
11	0	54
12	0	59
13 *	0	62

\* A SECOND DLTU-RR IS REQUIRED.

TABLE 3  
MAXIMUM NUMBER OF CLASS-1 DSL'S PER SUB-LINE GROUP

SUB-LG #	MAX. CLASS-1 DSL'S	SUB-LG #	MAX. CLASS-1 DSL'S	SUB-LG #	MAX. CLASS-1 DSL'S	SUB-LG #	MAX. CLASS-1 DSL'S
0	3	16	4	32	4	48	4
1	4	17	3	33	4	49	4
2	4	18	4	34	3	50	3
3	4	19	3	35	4	51	4
4	3	20	4	36	4	52	3
5	3	21	4	37	3	53	4
6	4	22	3	38	4	54	4
7	3	23	4	39	3	55	4
8	4	24	3	40	4	56	4
9	4	25	4	41	3	57	3
10	3	26	3	42	4	58	4
11	4	27	4	43	4	59	3
12	4	28	4	44	3	60	4
13	3	29	3	45	4	61	4
14	4	30	4	46	3	62	3
15	4	31	3	47	3	-	-

EQUIPMENT NOTES (CONT):  
241. KS-23364 TRAINER



NOTE: OPTICAL DISKS AND SERVICE CHARGES ARE ORDERED FROM ED-5D522-33.

242. LINE TRUNK PERIPHERAL CABINET (LTP) IS REQUIRED WHEN THE NUMBER OF TERMINAL ADAPTER CIRCUIT PACKS (TA) EXCEEDS 14 IN THE RISLU. ONE LINK ADAPTER UNIT (LAU) CAN BE EQUIPPED WITH UP TO 14 TA CIRCUIT PACKS.

(D.A.) 243. INFORMATION LEAVING THE OSPS OFFICE ON AN AUTOQUOTE DATALINK (AL-TA TO AT&T 4000 TO A Z CARD) MUST TERMINATE AT THE FAR END ON A 2 WIRE, E&M TRUNK. THIS TRUNK MUST HAVE THE FOLLOWING OPTIONS INSTALLED AT THE APPROPRIATE DISTRIBUTION FRAME:

- 1) 'EAR' AND 'MOUTH' SHOULD BE CROSS CONNECTED
- 2) THE 'SB' LEAD SHOULD BE GROUNDED AT THE DF

244. ORDER CUSTOMIZED AND GENERIC OSPS RAF ANNOUNCEMENTS PER J5D003EA1.

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**(D.A.)** EQUIPMENT NOTES (CONT):  
245. 7A3 DISDNI NOTES:

1. THE 7A3 DISDNI CAN BE USED IN PLACE OF THE TN1087 (AL-TA, A-TA, S-TA), OR THE TN1523 (S-RA) AS LISTED BELOW IN THE APPLICATION TABLE. THE TABLE BELOW ALSO LISTS THE APPROPRIATE 7A3 DISDNI SETTINGS AND THE CABLES REQUIRED TO EMULATE THE TN1087 OR TN1523. SEE BLOCK DIAGRAM 7.
2. THE 7A3 DISDNI IS AVAILABLE ONLY IN A UNIT MOUNTED CONFIGURATION.
3. WHEN USED IN A TYPICAL CONFIGURATION, THE 7A3 DISDNI IS LOCATED IN THE OSPS DATA SET CABINET.
4. THE 7A3 DISDNI REQUIRES UNSWITCHED (CONTINUOUSLY INVERTED) PROTECTED AC POWER. THE 7A3 DISDNI DRAWS 5 WATTS OF 120VAC, 60HZ POWER, DURING NORMAL OPERATION. MAXIMUM POWER CONSUMPTION FOR THE 7A3 DISDNI IS 10 WATTS.
5. 7A3 DISDNI SETUP AND OPTIONS ARE DOCUMENTED IN THE 7A3 DISDNI USERS GUIDE 555-021-720, WHICH IS SUPPLIED WITH EACH UNIT.
6. WHEN A REMOTE ALARM SECTION (RAS) IS REQUIRED, THE LAU IS REQUIRED. THE 7A3 DISDNI CAN REPLACE ALL TN1087 LINKS WITH THE EXCEPTION OF THOSE LINKS ASSOCIATED WITH THE RAS.
7. 7A3 DISDNI ORDERING INFORMATION IS CONTAINED IN ED-5D522-33.
8. SET OPTIONS PER THE FOLLOWING TABLE:

CONFIGURATION	OPTION SETTINGS (SEE NOTE 2)	WIRING OPTION	CABLE REQD. ED-5D621-11,G( )
OAP W/O MODEMS	XXOXO XOXOX	-	(SEE NOTE 1)
W/ ASYNC MODEMS	XXOXO XOXOX	H	65B
W/ SYNC MODEMS	XXOXX XOXOX	J	65A
RTRS W/O MODEMS	XXOXO XOXOX	G	65C
W/ SYNC MODEMS	XXOXX XOXOX	J	65A
HOBIS/HOBIC W/O MODEMS	XXOXO OXOXO	G	65C
W/ ASYNC MODEMS	XXOXO OXOXO	H	65B
AMLB 9.6 KBPS W/O MODEMS	OXOXO XOXOX	G	65C
W/ SYNC MODEMS	OXOXO XOXOX	J	65A
19.2 KPBS W/O MODEMS	OXOXO XOXOX	G	65C
W/ SYNC MODEMS	OXOXO XOXOX	J	65A
AUTOQUOTE W/ ASYNC MODEMS	XXOXX OOXOX	F	65D
DAS/C OR EIS W/O MODEMS	XXOXO XOXOX	G	65C
W/ SYNC MODEMS	XXOXX XOXOX	J	65A
EIS W/SYNC MODEMS W/DBU	XXOXOXOXO	ZA	(SEE NOTE 5)
MIS W/O MODEMS	XXOXO XOXOX	-	(SEE NOTE 1)
W/ ASYNC MODEMS	XXOXO XOXOX	H	65B

- NOTES:
1. WHEN USING A 3B2 AS AN OAP, USE THE ACU MODEM CONNECTOR AND 8 PIN MODULAR CABLE THAT IS INCLUDED WITH THE 3B2. SEE BLOCK DIAGRAM 7.
  2. X = SWITCH CLOSED O = SWITCH OPEN
  3. SEE DIP SWITCH OPTION LABEL ON THE BOTTOM OF THE 7A DISDNI AND THE 7A DISDNI USER'S GUIDE 555-021-720.
  4. SEE EQUIPMENT NOTE 209 FOR RECOMMENDED MODEMS.
  5. ORDERING INFORMATION FOR ADAPTERS & MODULAR CORD CONTAINED IN ED-5D522-33.

EQUIPMENT NOTES (CONT):

246. THE 7516 ACT TERMINAL IS ORDERED VIA ED-5D522-33. THE TERMINAL IS ENGINEERED FROM THE 5ESS<sup>®</sup> SWITCH ISDN CUSTOMER PREMISE PLANNING GUIDE 533-700-100. THE 7516 IS ELECTRICALLY EQUIVALENT TO THE 7506 TERMINAL AND SHOULD BE ENGINEERED AS SUCH. THE 533-700-100 GUIDE CONTAINS ENGINEERING INFORMATION REGARDING POWER SUPPLIES, CABLING, TERMINATING RESISTORS, AND THE USE OF THE NT1.
247. THE 500A IS AN ADJUNCT BOX USED BY ISDN TERMINALS THAT REQUIRE THE OPERATOR/AGENT TO USE A HEADSET. THE 500A IS ORDERED OFF OF THE ED-5D522-33 DRAWING.
248. CST ENGINEERING RULES:

1. THE CST POWER MUST BE LINE ENGINEERED ON A JOB BY JOB BASIS. VARYING CST COMPONENTS AND CONFIGURATIONS MAY MAKE IT NECESSARY TO EXAMINE EACH APPLICATION INDIVIDUALLY. MANUFACTURER'S RATINGS, AS WELL AS OBSERVED MEASURED READINGS WILL BE REQUIRED TO ASSURE QUALITY POWER ENGINEERING. FOR THE RECOMMENDED CST CONFIGURATION, CONSISTING OF AN AT&T 6386SX/EL, SONY 1304 MONITOR, CST KEYBOARD, AND IPIB, THE FOLLOWING RATINGS APPLY:

TYPICAL RMS CURRENT	0.75 AMPS
MAXIMUM RMS CURRENT	2.22 AMPS
PEAK CURRENT	3.9 AMPS

NOTE: ALL TEST/MEASUREMENTS PERFORMED AT 25 DEGREES C. POWER SOURCE IS 115VAC, 15 AMP, COMMERCIAL SOURCE.

FOR MAXIMUM PROTECTION, IT IS RECOMMENDED THAT BRANCH CIRCUIT CONDUCTOR SIZE AND OVERCURRENT PROTECTION DEVICE CAPACITIES BE CALCULATED BASED ON THE MAXIMUM RMS CURRENT RATING. NOTE THAT NO ENGINEERING MARGIN HAS BEEN ADDED TO THESE RATINGS.

TO PROPERLY SIZE THE INVERTER OR UPS THAT IS POWERING THE CST, IT MAY BE NECESSARY TO ACCOUNT FOR CREST FACTOR RATIO. THE CREST FACTOR RATIO IS DEFINED AS THE RATIO BETWEEN PEAK CURRENT AND RMS CURRENT. THE CREST FACTOR RATIO, HOWEVER, CANNOT BE CALCULATED WITHOUT KNOWING THE CHARACTERISTICS OF THE INVERTER OR UPS. IT IS RECOMMENDED THAT THE INVERTER OR UPS VENDOR BE CONSULTED WHEN ENGINEERING POWER SYSTEM CAPACITY.

ANOTHER ASPECT FOR DETERMINING PROPER POWER ENGINEERING IS RELIABILITY. EACH BRANCH CIRCUIT, WITH IT'S ASSOCIATED OVER-CURRENT PROTECTION DEVICE AND CABLING, REPRESENTS A FAILURE GROUP. THEREFORE, THE MAXIMUM NUMBER OF CST'S PER BRANCH CIRCUIT MAY BE LIMITED BY THE FAILURE GROUP SIZE RATHER THAN BY THE CURRENT LIMITATIONS. FOR TOLL AND ASSISTANCE OSPS'S IT IS RECOMMENDED THAT NO MORE THAN 5% OF THE TOTAL NUMBER OF CST'S BE POWERED BY A SINGLE BRANCH CIRCUIT.

2. THE SOURCE FOR CST POWER IS TO BE LINE ENGINEERED, HOWEVER, TWO CONFIGURATIONS ARE RECOMMENDED TO ASSURE RELIABILITY. BOTH CONFIGURATIONS ARE BASED ON THE PRINCIPLE THAT CONTINUOUSLY INVERTED AC POWER PROVIDES THE HIGHEST LEVEL OF RELIABILITY. THE FIRST CONFIGURATION CONSISTS OF CENTRALIZED INVERTERS, POWERED BY THE CENTRAL OFFICE BATTERY PLANT. THE SECOND CONFIGURATION UTILIZES UNINTERRUPTIBLE POWER SUPPLIES (UPS). UPS SYSTEMS THAT SPECIFY A SENSE TO SWITCH TIME OF GREATER THAN 1 MILLISECOND ARE NOT RECOMMENDED, AS CALL PROCESSING AND SYSTEM PERFORMANCE MAY BE JEOPARDIZED.
3. THE CST AND ITS ASSOCIATED HARDWARE IS ORDERED BY THE ED-5D522-33 DRAWING. CST SOFTWARE IS ORDERED BY THE 5ESS<sup>®</sup> SOFTWARE J DRAWING, J5D008-(ALPHA SUFFIX).
4. FOR PLANNING PURPOSES, CABLE LENGTH INFORMATION IS PROVIDED HEREIN. THE 115 VAC POWER CORD FOR THE PC IS 8'-0" IN LENGTH. THE KEYBOARD CABLE WILL STRETCH TO A COMFORTABLE MAXIMUM OF 5'-0". THE AC POWER CORD FROM THE PC TO THE MONITOR IS 6'-0" IN LENGTH. THE VIDEO CABLE FROM THE PC TO THE MONITOR IS 5'-0" IN LENGTH. THE THREE MAIN COMPONENTS OF THE CST (PC BASE, MONITOR, AND KEYBOARD) CAN BE SEPARATED FROM ONE ANOTHER WITHIN THE LIMITS OF THEIR RESPECTIVE CONNECTING CABLES. IT IS DESIRABLE TO LOCATE THE PC AWAY FROM DIRECT PHYSICAL AND VISUAL CONTACT OF THE OPERATOR. THE PC CAN BE POSITIONED VERTICALLY, STILL ALLOWING ACCESS TO THE FLOPPY DISK DRIVE LOCATED ON THE FRONT OF THE UNIT. FOR EXAMPLE, RECOGNIZING THAT THE PC HAS A COOLING FAN, IT IS DESIRABLE

EQUIPMENT NOTES (CONT):

248. CST ENGINEERING RULES (CONT):

4. (CONT)  
TO LOCATE THE PC HOUSING SUCH THAT THE OPERATOR WILL NOT HEAR THE FAN OR BE AFFECTED BY THE RESULTING AIR MOVEMENT. THESE DECISIONS WILL HAVE TO BE MADE ON A JOB BY JOB BASIS BY A LINE ENGINEER, AS FURNITURE AND OFFICE LAYOUT WILL BE AFFECTED.
5. THE FLOOR PLAN OF AN OFFICE USING CST'S MUST BE DESIGNED TO INSURE THAT VISIBLE EFFECTS OF ELECTROMAGNETIC INTERFERENCE BETWEEN MONITORS WILL NOT BE PRESENT. ALLOW FOR A MINIMUM DISTANCE OF 29" BETWEEN MONITORS WHEN PLACED BACK TO BACK (SEE FIGURE A). ALLOW A MINIMUM DISTANCE OF 36" BETWEEN MONITORS PLACED SIDE BY SIDE (SEE FIGURE A). ALLOW A MINIMUM DISTANCE OF 33" BETWEEN MONITORS PLACED AT 90 DEGREE ANGLES (SEE FIGURE B). ALLOW A MINIMUM DISTANCE OF 36" BETWEEN MONITORS PLACED IN A HEXAGONAL PATTERN (SEE FIGURE C). NOTE: ALL DIMENSIONS ARE MEASURED FROM MONITOR CENTER TO CENTER. THESE MEASUREMENTS APPLY TO THE SONY 1304 MONITOR. A GENERAL RECOMMENDATION, INDEPENDENT OF THE MONITOR AND CONFIGURATION, IS TO ALLOW 48" BETWEEN MONITORS.
6. REFER TO EQUIPMENT NOTE 240 FOR LINE CARD ASSIGNMENT RULES AS THEY PERTAIN TO THE CST.
7. THE CST DESCRIPTION AND OPERATION DOCUMENT 5D5-520-110, MAY BE OBTAINED VIA CIC. IT IS RECOMMENDED THAT OFFICE MANAGERS AND OPERATOR SERVICES PLANNING ORGANIZATIONS BE FAMILIAR WITH THIS DOCUMENT, AS IT PROVIDES A HIGH LEVEL VIEW OF CST ASSEMBLY, INITIALIZATION, AND OPERATION.
8. CST GROUNDING MUST BE LINE ENGINEERED ON A JOB BY JOB BASIS. THE EQUIPMENT GROUND (EG) LEAD (GREEN WIRE GROUND) ROUTED TO THE CST IS CONSIDERED AN EXTENSION OF THE ESS GROUND (ISOLATED) IF THE CST IS POWERED BY OFFICE BATTERY (INDIRECTLY, VIA INVERTER). AS AN EXTENSION OF ESS GROUND, RULES CONTAINED IN ED-5D022-11 MUST BE FOLLOWED. FOR EXAMPLE, THE CST MAY NOT BE MORE THAN ONE FLOOR ABOVE OR BELOW THE GROUND WINDOW (SEE FIGURE D). THIS RESTRICTION OF VERTICAL SPACING BETWEEN CST AND SWITCH MAY BE UNACCEPTABLE TO SOME CUSTOMERS. AN ALTERNATIVE WOULD BE TO POWER THE CST FROM AN INDEPENDENT UPS OR INVERTER SYSTEM (REFERENCE AT&T PRACTICE 802-001-196). IN THIS CONFIGURATION, THE EG LEAD (GREEN WIRE GROUND) WOULD NOT BE CONSIDERED AN EXTENSION OF ESS GROUND AND THEREFORE MAY BE TREATED AS AN INTEGRATED BUILDING GROUND. TO ASSURE PROPER EQUALIZATION, IT IS RECOMMENDED THAT AC DISTRIBUTION CABINETS LOCATED ON THE SAME VERTICAL GROUND FLOOR AS THE CST BE GROUNDED TO THE CENTRAL OFFICE GROUND BUS (COGB) (SEE FIGURE E). EG WIRE SIZE MUST COMPLY WITH NATIONAL ELECTRIC CODE REQUIREMENTS.
9. IT IS IMPORTANT TO NOTE THAT THE CST INCREASES THE AMBIENT NOISE LEVEL OF AN OPERATOR'S WORK AREA OVER THE VDT. THEREFORE, IT MAY BE NECESSARY TO TAKE STEPS TO ENSURE PROPER SOUND-PROOFING FOR OPTIMAL OPERATION. WHEN PLACED DIRECTLY IN FRONT OF THE OPERATOR, THE AUDIBLE LEVEL TO THE OPERATOR FROM THE PC IS 47 DB. WHEN PLACED 5'-0" AWAY FROM THE OPERATOR, THE AUDIBLE LEVEL TO THE OPERATOR FROM THE PC IS 40 DB.
10. THE ONLY RECOMMENDED AND SUPPORTED CST CONFIGURATION (THAT IS, THE ONLY CST CONFIGURATION THAT TAKES INTO ACCOUNT IPIB SIZE, EMC AND ESD CONSIDERATIONS AND PRODUCT SAFETY CONCERNS) IS IDENTIFIED IN PART 1 OF NOTE 248. NOTE, THE IPIB HAS BEEN DESIGNED TO BE OPERATIONALLY COMPATIBLE WITH A PC THAT MEETS THE INTEL CORPORATION, ISA BUS SPECIFICATION AND APPLICATION NOTES REV 3.00, JANUARY 12, 1990. THE IPIB'S PHYSICAL SIZE IS SHOWN IN FIGURE 'F'.
11. FOR CST ENVIRONMENTAL CONSIDERATIONS, SPECIFICALLY TEMPERATURE AND HUMIDITY RECOMMENDATIONS FOR STORAGE AND OPERATION, REFER TO INDIVIDUAL PRODUCT (PC OR MONITOR, ETC.) DOCUMENTATION AS NEEDED.

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EQUIPMENT NOTES (CONT):

248. (CONT)

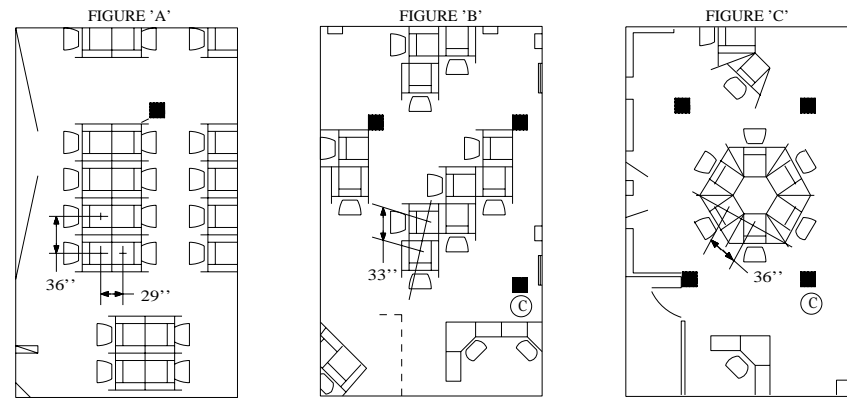


FIGURE 'D'

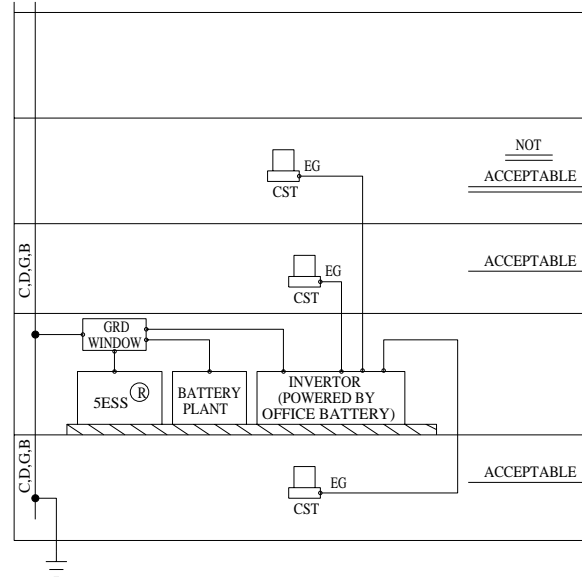


FIGURE 'E'

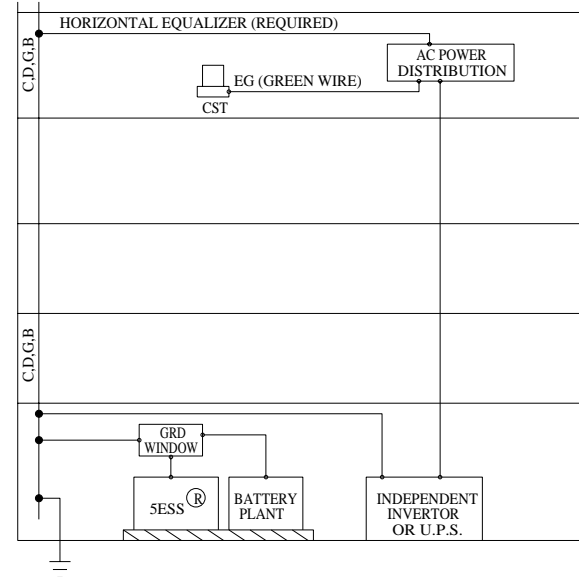
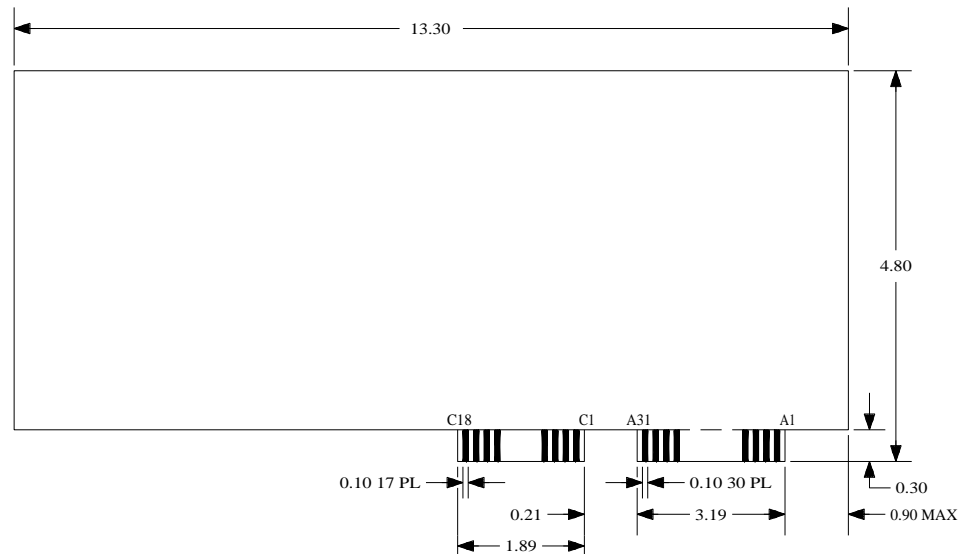


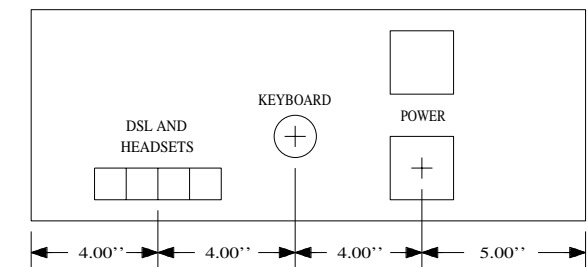
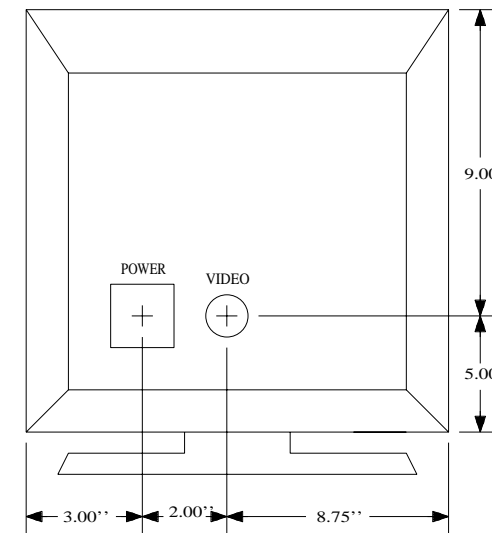
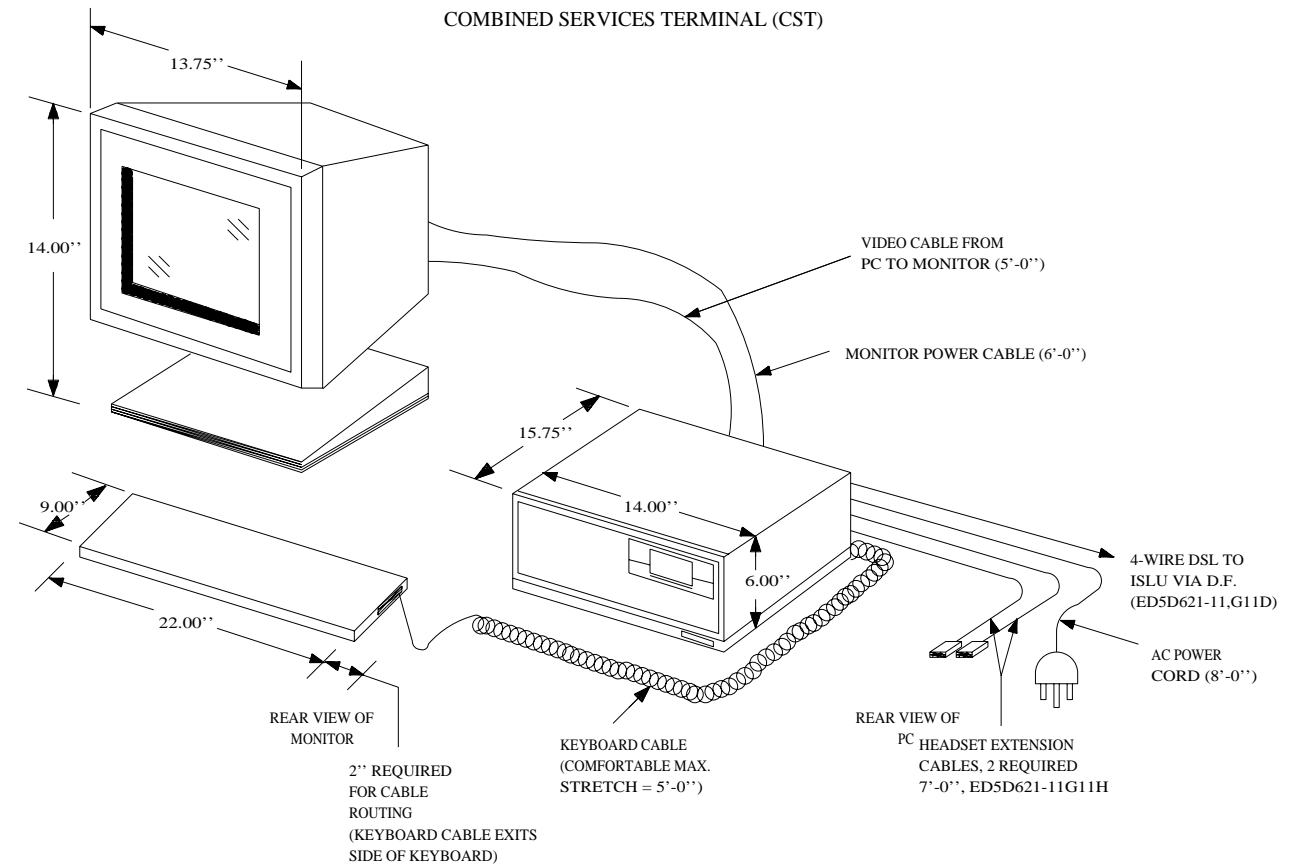
FIGURE 'F' IPIB DIMENSIONS



EQUIPMENT NOTES (CONT):

248. (CONT)

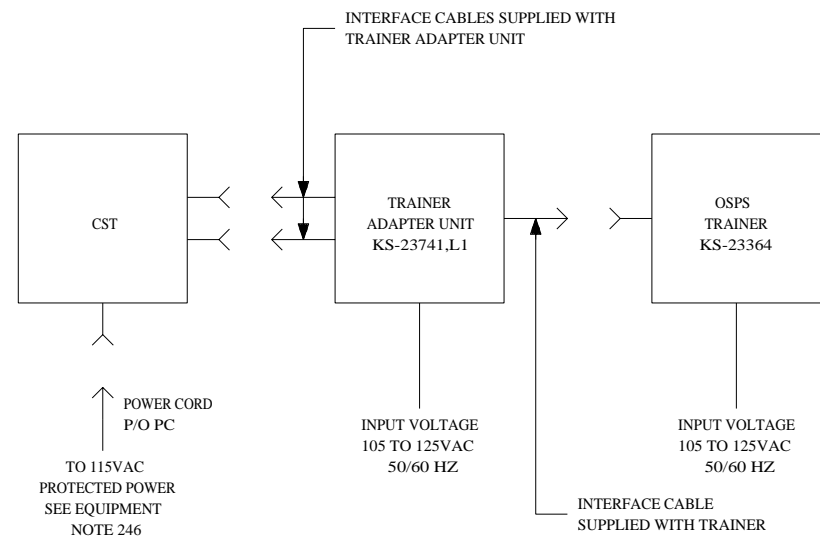
COMBINED SERVICES TERMINAL (CST)



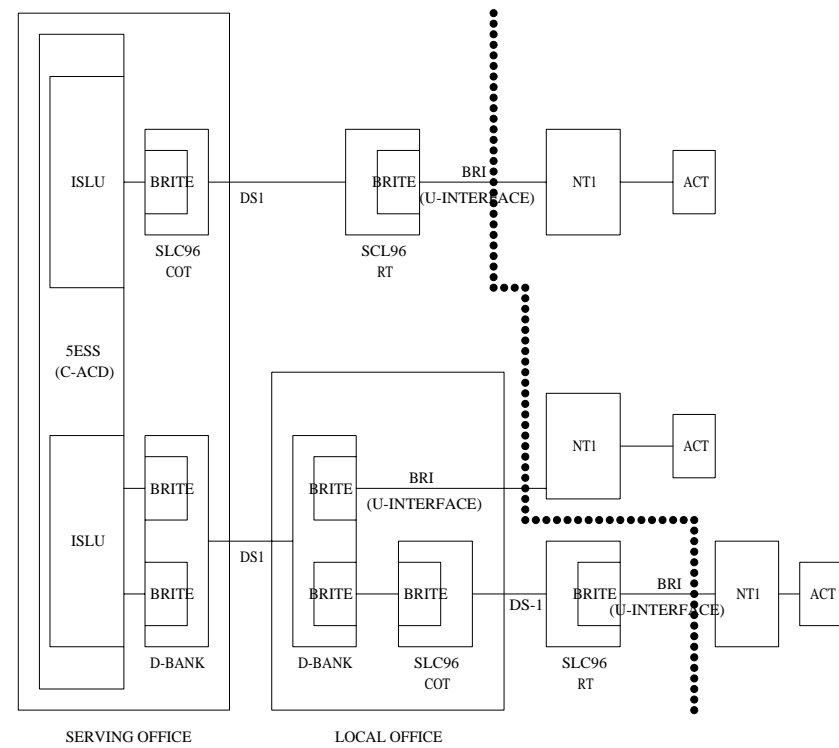
Copyright (C) 1999 Lucent Technologies All Rights Reserved		
OSPS APPLICATION SCHEMATIC	DWG SIZE	ISSUE
	C2	11B
Lucent Technologies	SD-5D135-01	SHEET D16BB

EQUIPMENT NOTES (CONT):

249. CST TRAINER CONFIGURATION

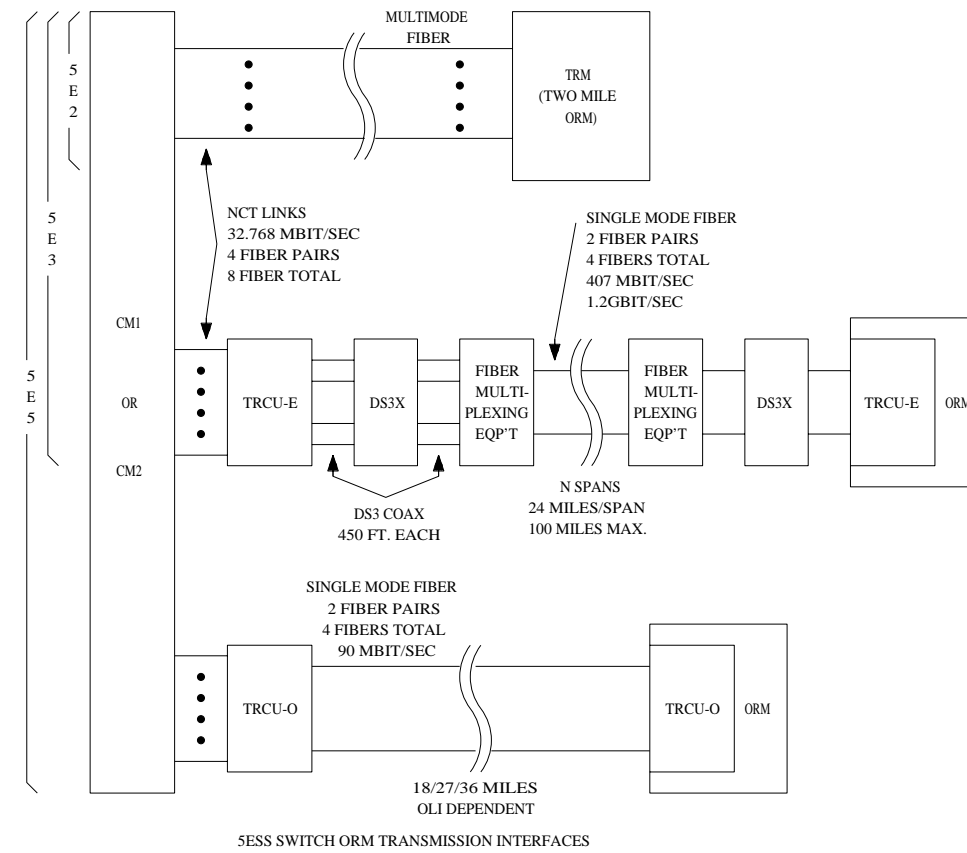


250. USING BRITE TO REMOTE C-ACD AGENT POSITIONS (THREE MAJOR CONFIGURATION)



EQUIPMENT NOTES (CONT):

251. CONFIGURATION SHOWING AN OPTICALLY REMOVED MODULE (ORM) AS A POSITION SWITCH MODULE (PSM).

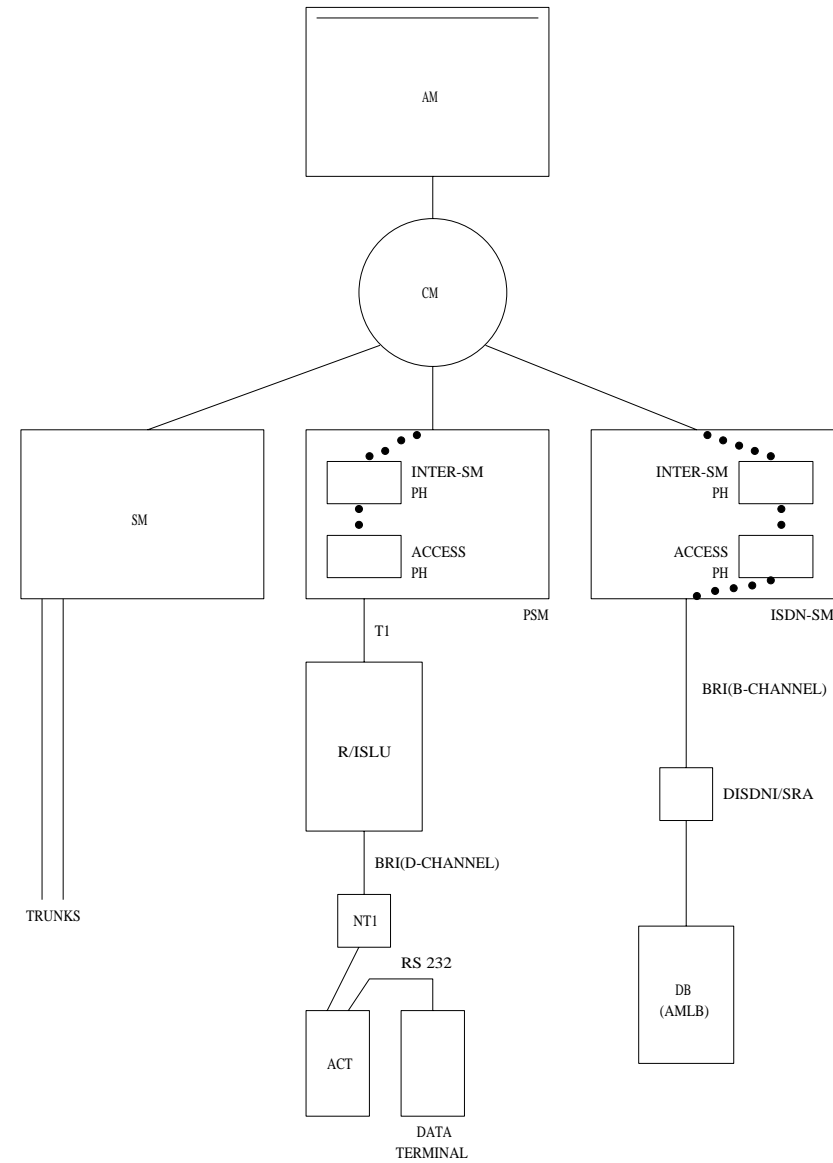


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OSPS APPLICATION SCHEMATIC	DWG SIZE	ISSUE
	C2	9B
Lucent Technologies	SD-5D135-01	SHEET D16CA



EQUIPMENT NOTES (CONT):

252. DATABASE ACCESS FROM ACT USING D-CHANNEL PACKET SWITCHING; AGENT INFORMATION DATA BASE (AIDB).



253. NOTES:

1. THE 7B DII CAN BE USED IN PLACE OF THE 7A3 DISDNI, THE TN1087 (AL-TA, A-TA, S-TA), OR THE TN1523 (SRA) AS LISTED BELOW IN THE APPLICATION TABLE. THE TABLE BELOW ALSO LISTS THE APPROPRIATE 7B DII SETTINGS AND THE CABLES REQUIRED TO EMULATE THE TN1087 OR TN1523.
2. THE 7B DII IS AVAILABLE ONLY IN A UNIT MOUNTED CONFIGURATION.

EQUIPMENT NOTES (CONT):

253. NOTES (CONT):

3. WHEN USED IN A TYPICAL CONFIGURATION, THE 7B DII IS LOCATED IN THE OSPS DATA SET OR CLIC CABINET.
4. THE 7B DII DRAWS 2.4 WATTS OF -48 VOLT DC POWER DURING NORMAL OPERATION. MAXIMUM POWER CONSUMPTION FOR THE 7B DII IS 5 WATTS. THE -48 VOLT DC POWER CAN BE SUPPLIED FROM OFFICE BATTERY (LINE ENGINEERED) THROUGH PINS 7 (-48V) AND 8 (-48RTN) OF THE DSL CABLE VIA THE OSPS POWER DISTRIBUTION CABINET OR EQUIVALENT. OPTIONALLY, A 353A POWER SUPPLY CAN BE USED TO ADD -40 VOLTS TO THE DSL CABLE AT THE LOCATION OF THE 7B DII.
5. 7B DII SETUP AND OPTIONS ARE DOCUMENTED IN THE 7B DII USER'S GUIDE 555-021-723 WHICH IS SUPPLIED WITH EACH UNIT. ADDITIONAL COPIES MAY BE OBTAINED THROUGH C.I.C.
6. WHEN A REMOTE ALARM SECTION (RAS) IS REQUIRED, THE LAU IS REQUIRED. THE 7B DII CAN REPLACE ALL TN1087 LINKS WITH THE EXCEPTION OF THOSE LINKS ASSOCIATED WITH THE RAS.
7. 7B DII ORDERING INFORMATION IS CONTAINED IN ED-5D522-33.

CONFIGURATION	OPTION SETTINGS SEE NOTE 2	WIRING OPTION
OAP W/O MODEMS	DDUDU DUDUD	E
W/ ASYNC MODEMS	..	B
RTRS W/O MODEMS	DDUDU DUDDU	ZZ(IF REQUIRED)
W/ SYNC MODEMS	DDUDD DUDDU	YY
HOBIS/HOBIC W/O MODEMS	DDUDU UDUUD	D
W/ ASYNC MODEMS	..	B
AMLB 9.6 KBPS W/O MODEMS	UDDUU DUDDD	ZZ(IF REQUIRED)
W/ SYNC MODEMS	UDDUD DUDDD	YY
19.2 KBPS W/O MODEMS	UDDUU DUDDU	ZZ(IF REQUIRED)
W/ SYNC MODEMS	UDDUD DUDDU	YY
AUTOQUOTE W/ ASYNC MODEMS	DDUDD UUUUD	A
DAS/C OR EIS W/O MODEMS	DDUDU DUDDU	ZZ(IF REQUIRED)
W/ SYNC MODEMS	DDUDD DUDDU	YY
EIS W/SYNC MODEMS W/DBU	DDUDUDUDDU	ZA
MIS W/O MODEMS	DDUDU DUDUD	E
W/ ASYNC MODEMS	..	B

TABLE NOTES:

1. WHEN USING A 3B2 AS AN OAP, USE THE ACU MODEM CONNECTOR AND 8 PIN MODULAR CABLE THAT IS INCLUDED WITH THE 3B2.
2. D = SWITCH CLOSED (DOWN), U = SWITCH OPEN (UP).
3. SEE DIP SWITCH OPTION LABEL ON THE BOTTOM OF THE 7B DII AND THE 7B DII USER'S GUIDE 555-021-723.
4. SEE EQUIPMENT NOTE 209 FOR RECOMMENDED MODEMS.

EQUIPMENT NOTES (CONT):

253. (CONT)

7B DII POWER OPTIONS  
LOCAL POWER

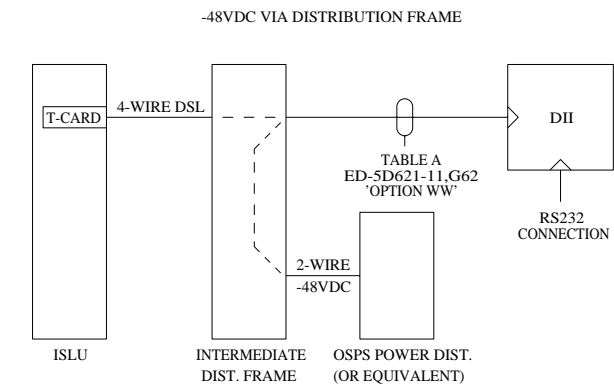
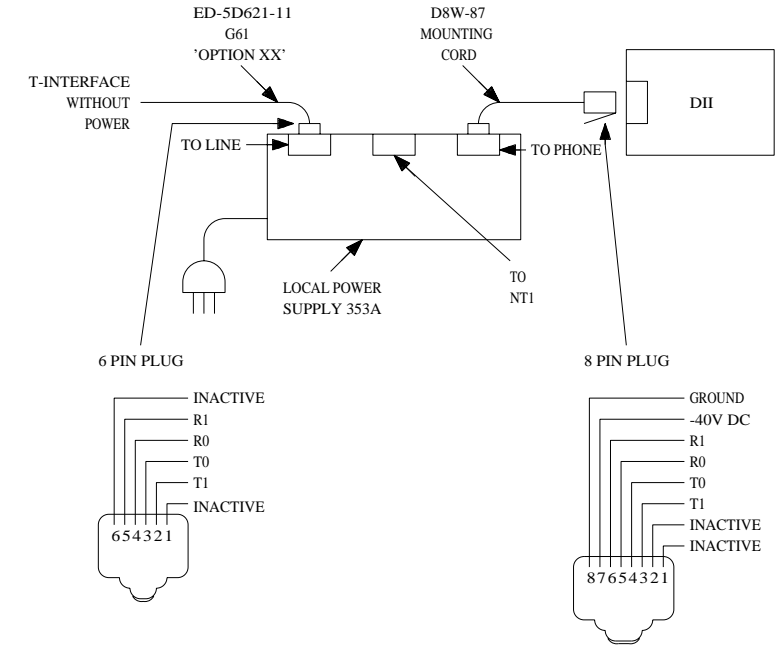


TABLE A

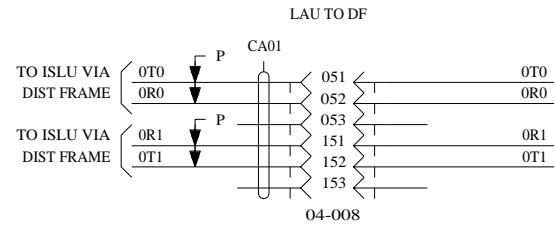
FROM	TO	FUNCTION
DII	PIN 1	DISTRIBUTION FRAME, TIE BACK -UNUSED
	2	..
	3	ISLU VIA DISTRIBUTION FRAME
	4	T1
	5	T0
	6	R0
	7	R1
	8	-48VDC DIST. VIA D.F.

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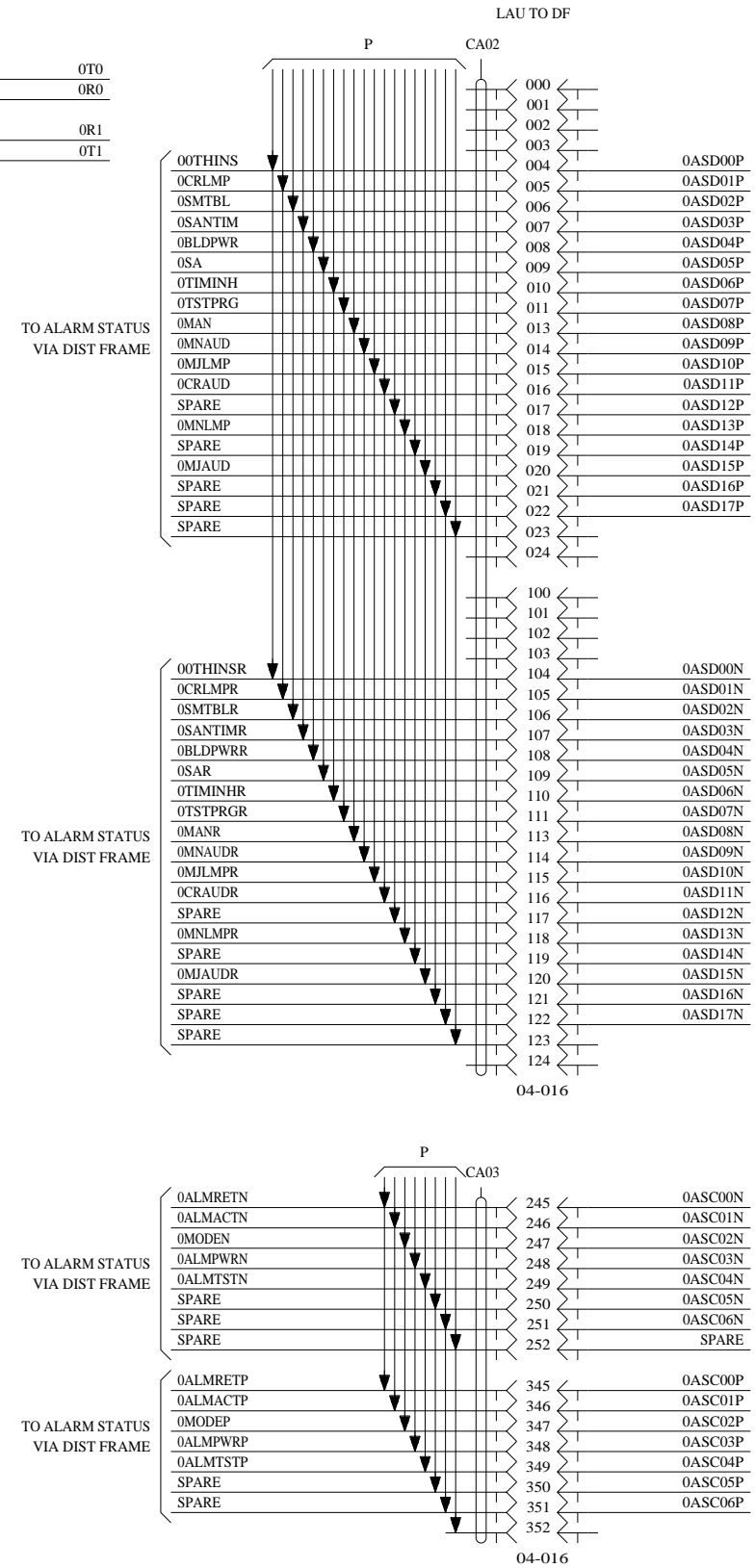
OSPS APPLICATION SCHEMATIC

DWG SIZE	ISSUE
C2	16M
Lucent Technologies	SD-5D135-01
SHEET D16CB	

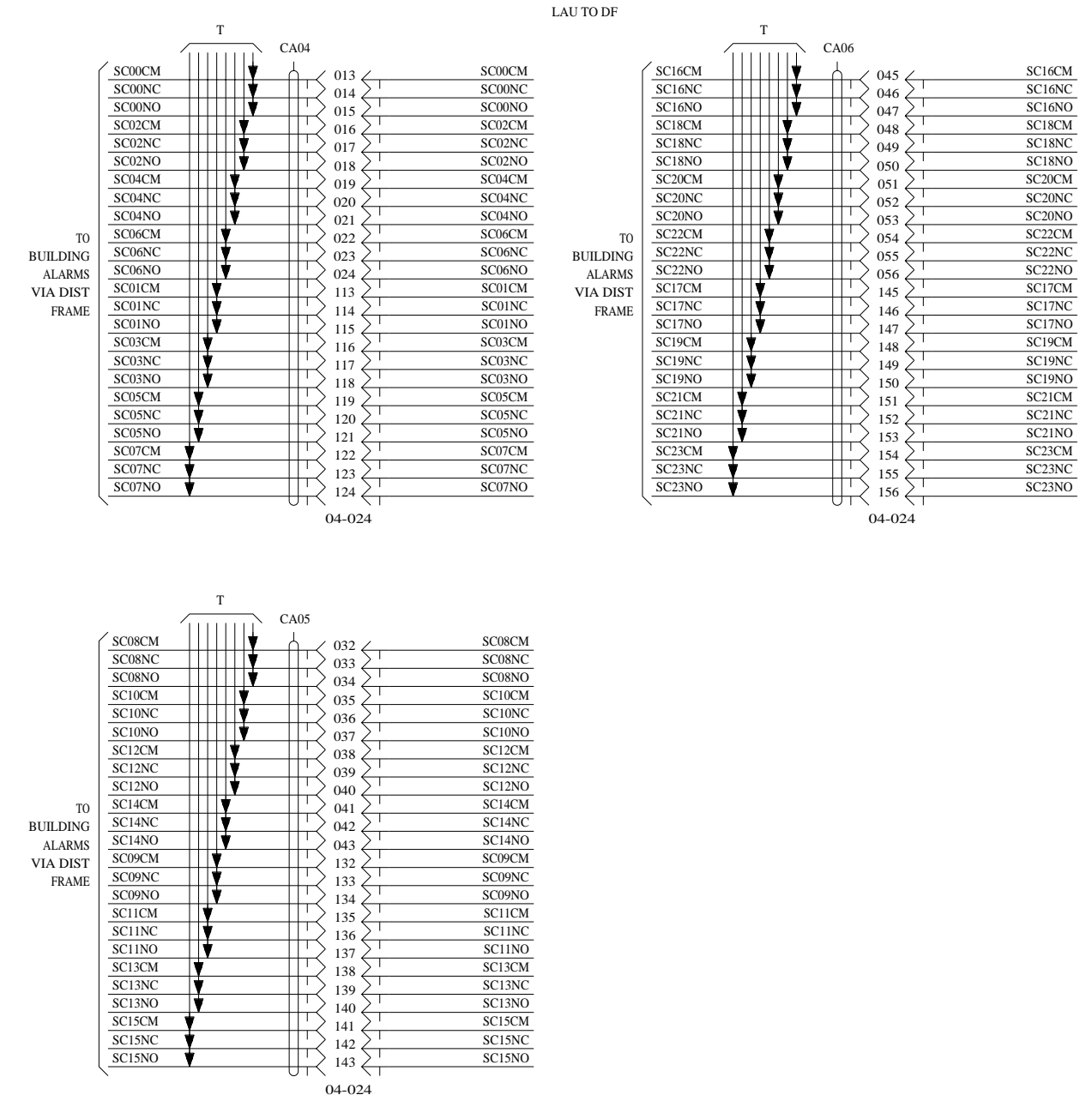
# CAD 1



# CAD 2



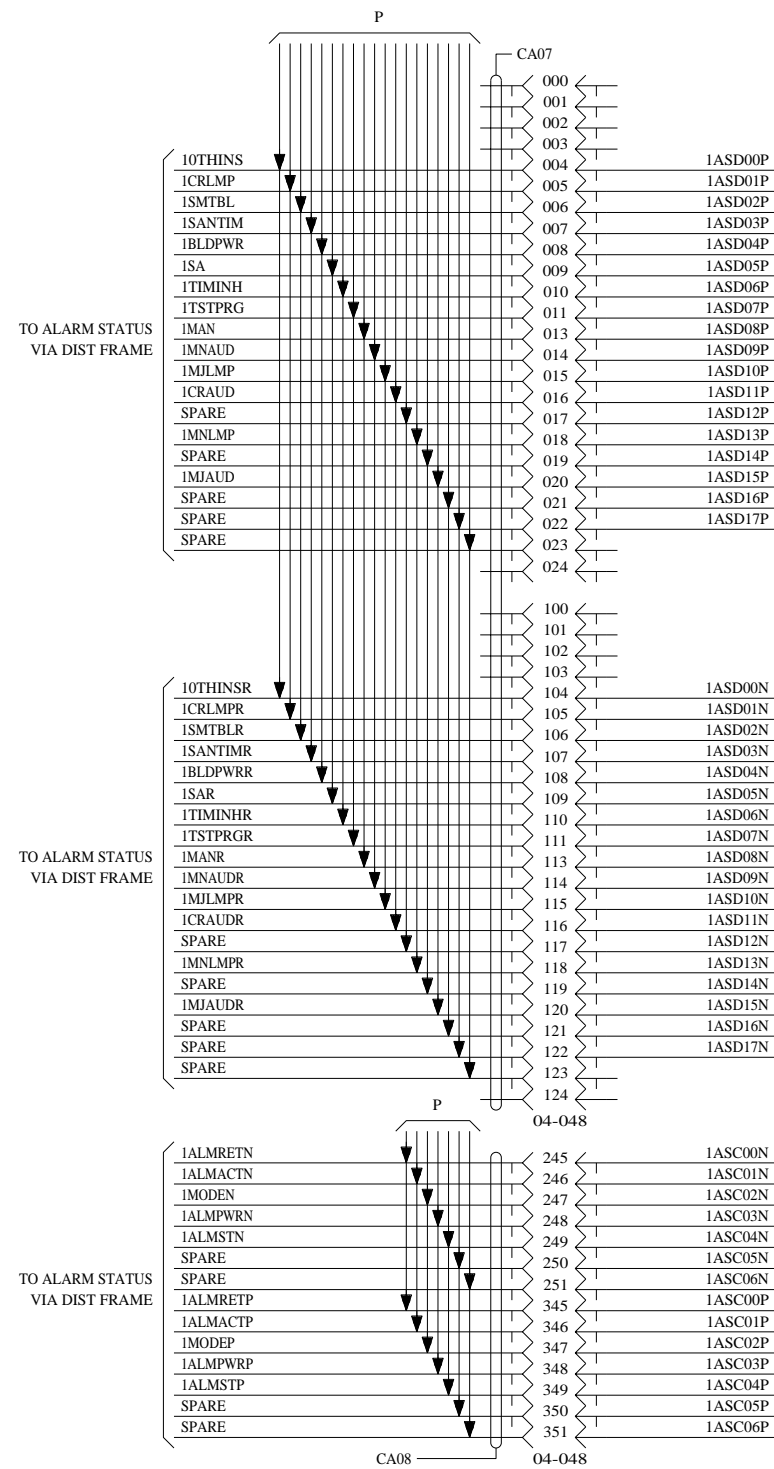
# CAD 3



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OSPS APPLICATION SCHEMATIC	DWG SIZE	ISSUE
	C2	8M
Lucent Technologies	SD-5D135-01	SHEET G1

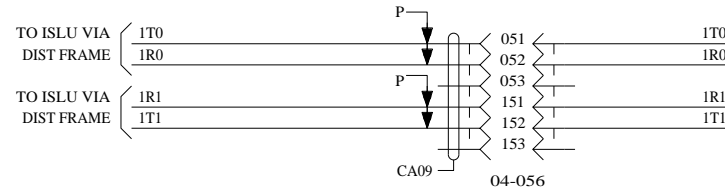
# CAD 4

LAU TO DF



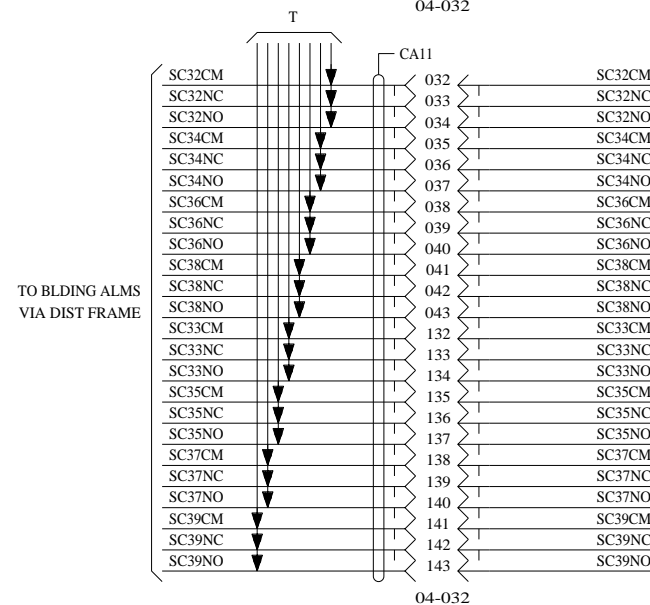
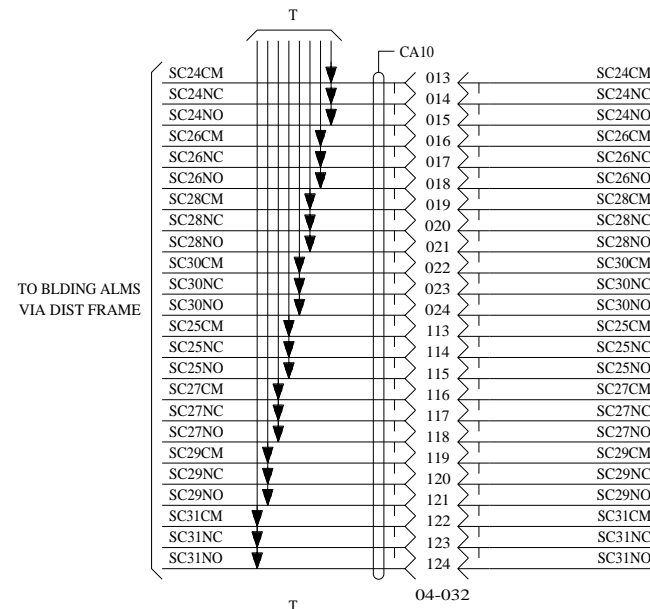
# CAD 5

LAU TO DF



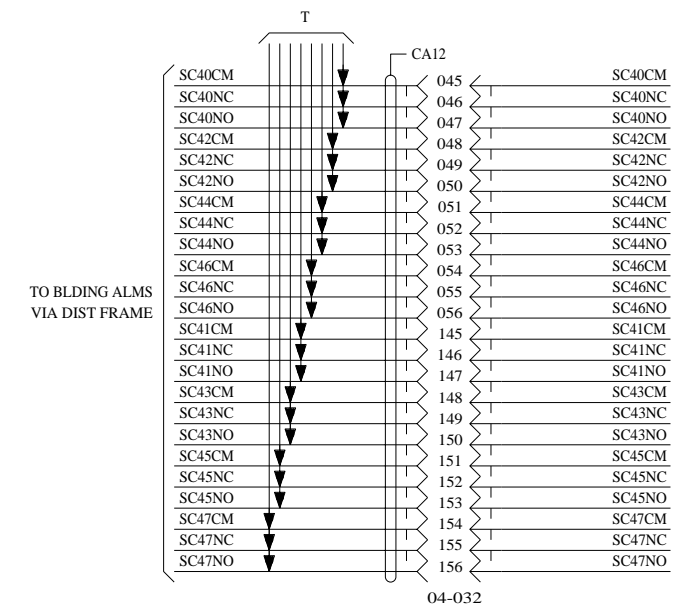
# P/O CAD 6

LAU TO DF



# P/O CAD 6

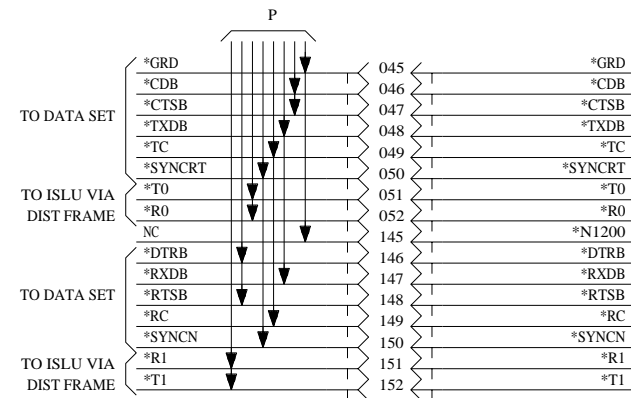
LAU TO DF



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OSPS APPLICATION SCHEMATIC	DWG SIZE	ISSUE
	C2	8M
Lucent Technologies	SD-5D135-01	SHEET G2

(D.A.) Ⓟ **CAD 7**

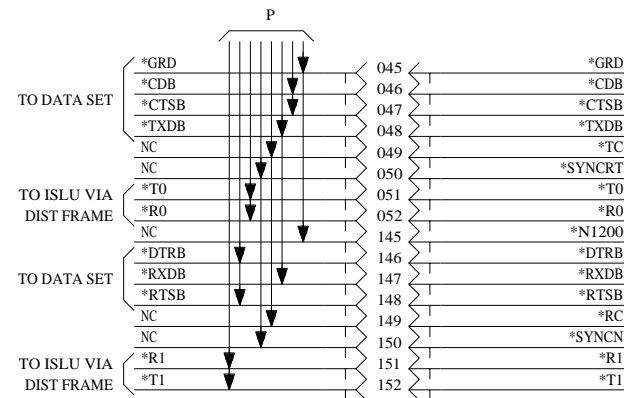
LAU-T/A SYNCHRONOUS 9.6K BPS DAS/C, RTRS,EIS  
(SEE NOTE 206)



\* SEE NOTE 1 (SEE NOTE 1)

(D.A.) Ⓟ **CAD 8**

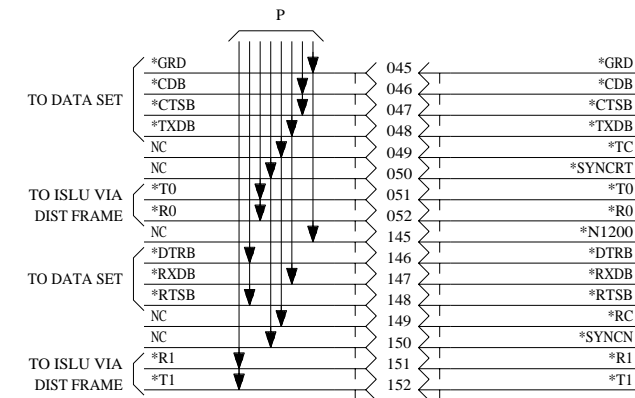
LAU-T/A SYNCHRONOUS 9.6K BPS OAP  
(SEE NOTE 206)



\* SEE NOTE 1 (SEE NOTE 1)

(D.A.) Ⓟ **CAD 8B**

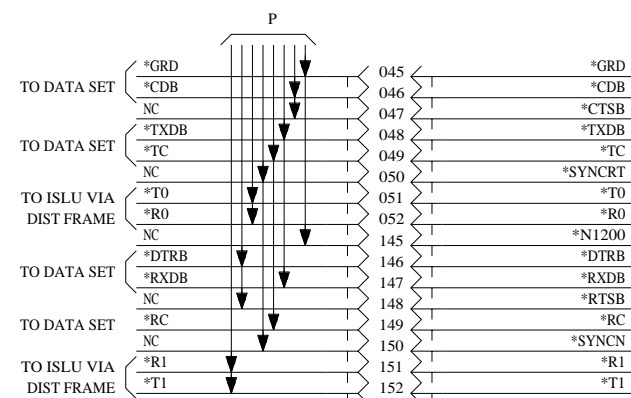
LAU-T/A SYNCHRONOUS 9.6K BPS AQ(AL-TA)  
(SEE NOTE 206)



\* SEE NOTE 1 (SEE NOTE 1)

(D.A.) Ⓟ **CAD 7A**

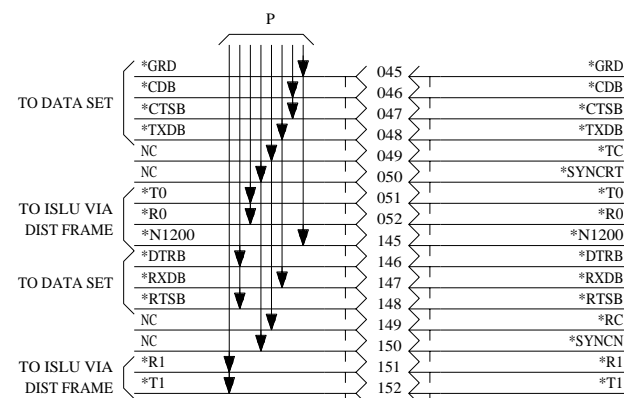
LAU-T/A SYNCHRONOUS 9.6K BPS SRA  
(SEE NOTE 206)



\* SEE NOTE 1 (SEE NOTE 1)

(D.A.) Ⓟ **CAD 8A**

LAU-T/A ASYNCHRONOUS 1200 BPS HOBIS/HOBIC  
(SEE NOTE 206)



\* SEE NOTE 1 (SEE NOTE 1)

NOTE:

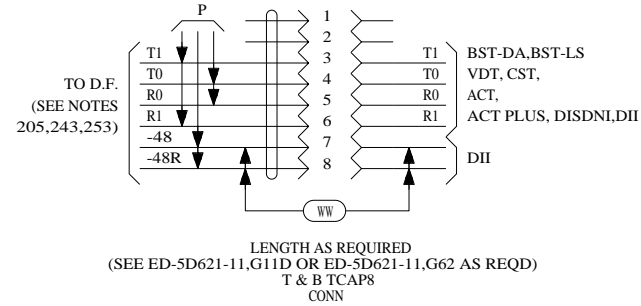
1. TABLE REPRESENTS 14 CONNECTORS.

*	CAD EQL	*	CAD EQL
2	04-072	9	04-128
3	04-080	10	04-136
4	04-088	11	04-144
5	04-096	12	04-152
6	04-104	13	04-160
7	04-112	14	04-168
8	04-120	15	04-176

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OSPS APPLICATION SCHEMATIC	DWG SIZE	ISSUE
	C2	16M
Lucent Technologies	SD-5D135-01	SHEET G3

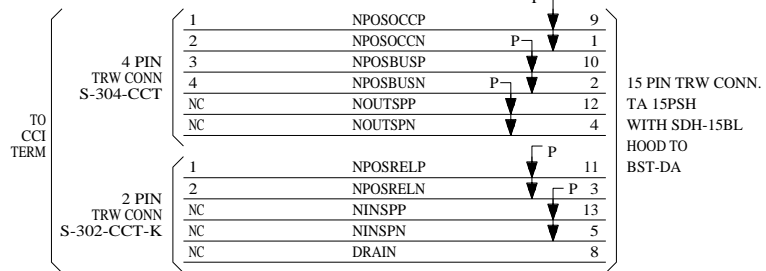
# CAD 9

BST-DA, BST-LS, VDT, ACT, ACT PLUS, DISDNI, DII, CST  
TO DISTRIBUTING FRAME



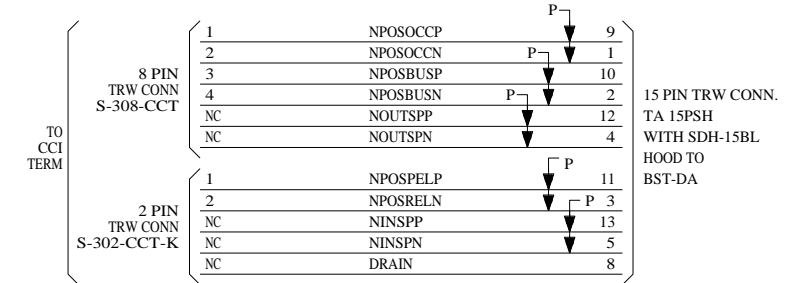
# CAD 10

BST-DA TO CCI TERM  
CABLE TO BE USED WITH V3 DVORAK MODEL 4546-3  
ED-5D621-11, GR 11A



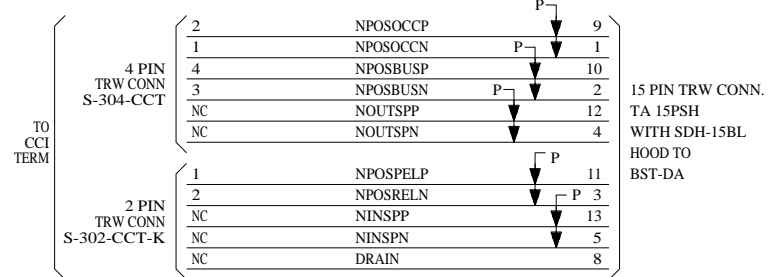
# CAD 10A

BST-DA TO CCI TERM  
CABLE TO BE USED WITH 800RR QWERTY MODELS 601 AND 605  
ED-5D621-11, GR 11B



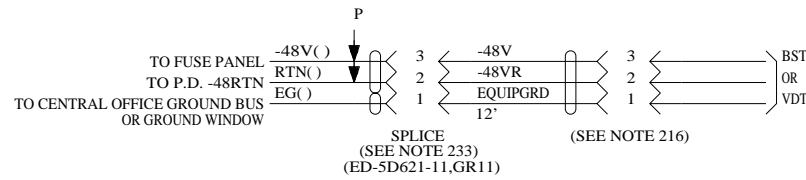
# CAD 10B

BST-DA TO CCI TERM  
CABLE TO BE USED WITH V2 DVORAK MODEL 4502  
AND 800RR QWERTY MODEL 609  
ED-5D621-11, GR 11C



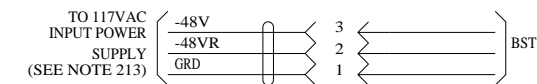
# CAD 11

BST OR VDT POWER



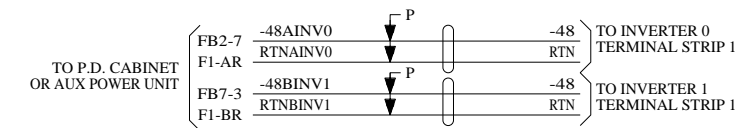
# CAD 11A

117VAC BST POWER



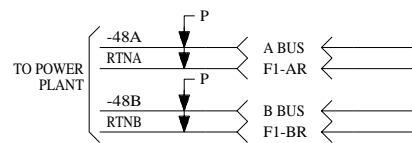
# CAD 14(AM)

TO 300VA INVERTERS IN DATA SET CABINET  
TO POWER DISTRIBUTION CABINET



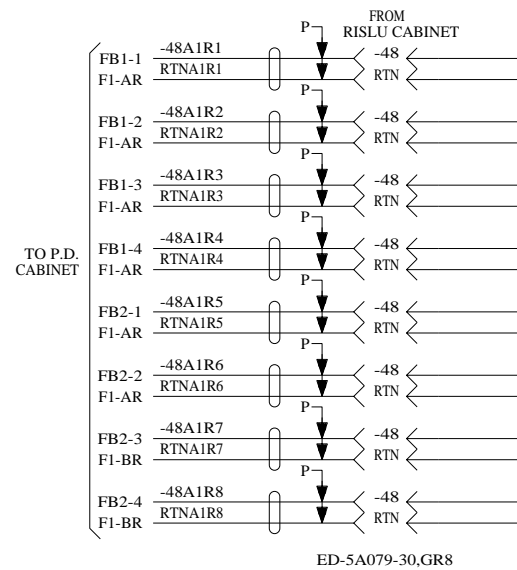
# CAD 12

POWER DISTRIBUTION CABINET  
TO POWER PLANT



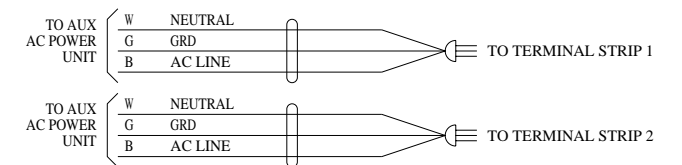
# CAD 13

RISLU CABINET TO POWER DISTRIBUTION CABINET



# CAD 14A

DATA SET CABINET POWER STRIPS TO AC POWER SOURCE  
(SEE NOTE 209-8)



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OSPS APPLICATION SCHEMATIC

DWG SIZE  
C2

ISSUE  
13B

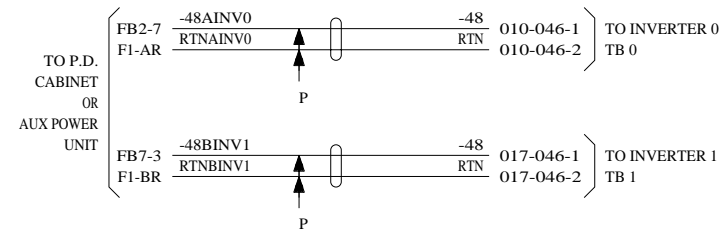
Lucent Technologies

SD-5D135-01

SHEET  
G4

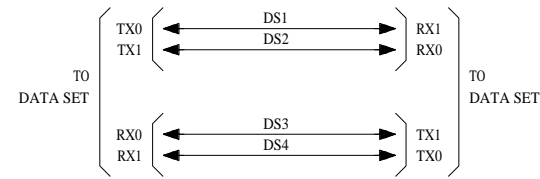
# CAD 14B

1KVA INVERTERS IN DATA SET  
CABINET FROM POWER DISTRIBUTION CABINET



# CAD 15

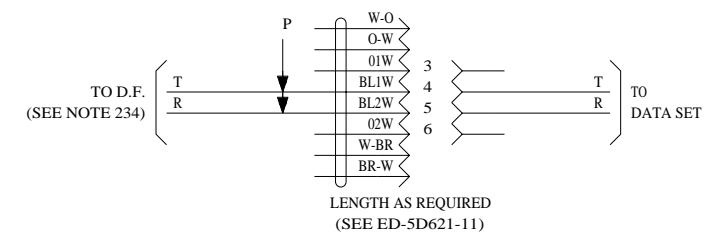
DATA SET TO DATA SET



NOTES:  
1. ARRANGEMENT SHOWN IS TYPICAL.

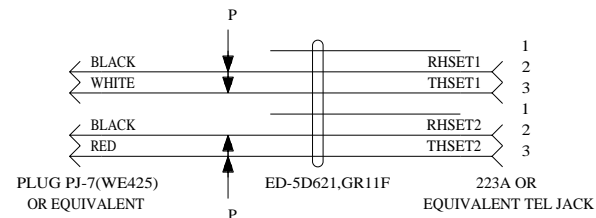
# CAD 15A

AT&T 4000 DATA SET TO D.F.



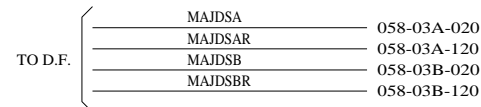
# CAD 16

BST-DA, BST-LS, OR VDT TO OPERATOR HEADSET  
(SEE NOTE 236)



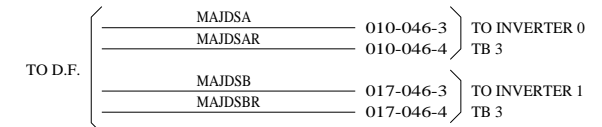
# CAD 17(AM)

OSPS DATA SET CABINET ALARMS TO D.F.  
(SEE NOTE 304)



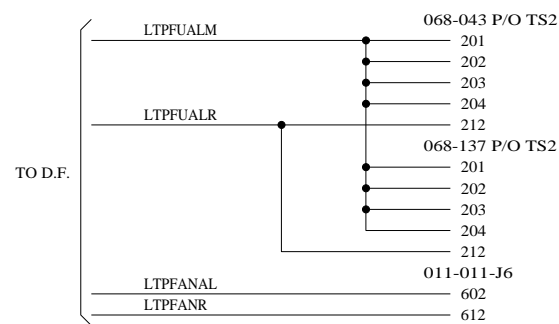
# CAD 17A

1KVA INVERTER ALARMS TO D.F.



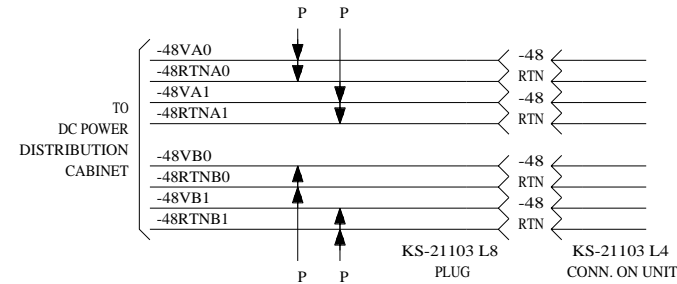
# CAD 18

LTP CABINET ALARMS TO D.F.  
(SEE NOTE 305)



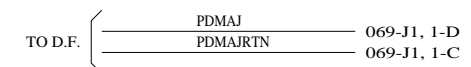
# CAD 19

LTP CAB TO P.D. CAB



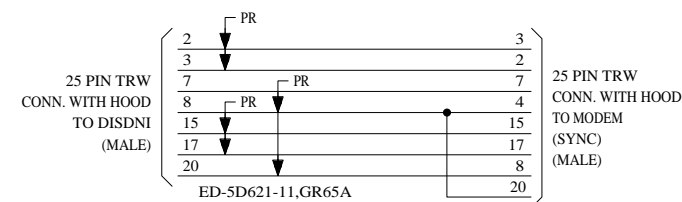
# CAD 20

OSPS P.D. ALM TO D.F.



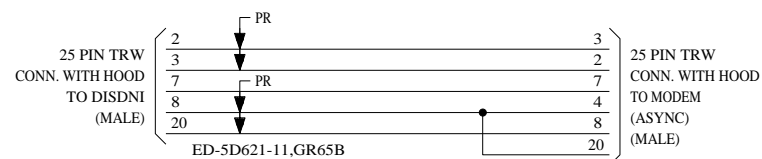
# CAD 21

DISDNI TO MODEM(SYNC)



# CAD 22

DISDNI TO MODEM (ASYNC)



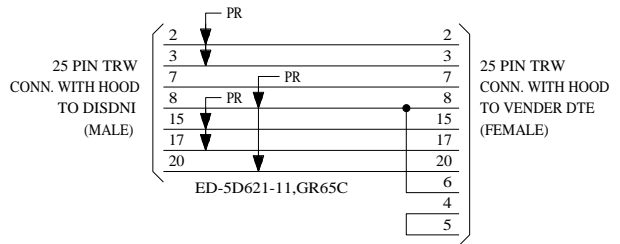
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OSPS APPLICATION SCHEMATIC	DWG SIZE	ISSUE
	C2	8M
Lucent Technologies	SD-5D135-01	SHEET G5

0 1 2 3 4 5 6 7 8 9

A

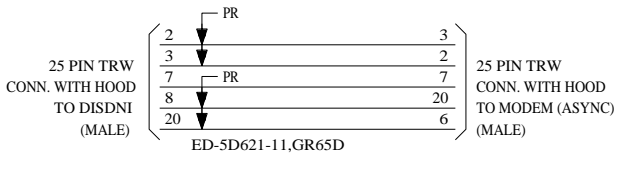
### ⓐ CAD 23

DISDNI TO DTE



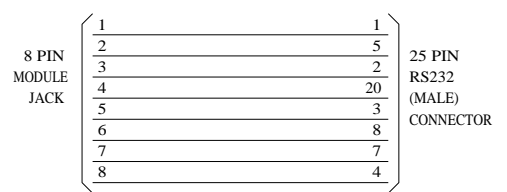
### ⓑ CAD 24

DISDNI TO MODEM (ASYNC, LOW SPEED)



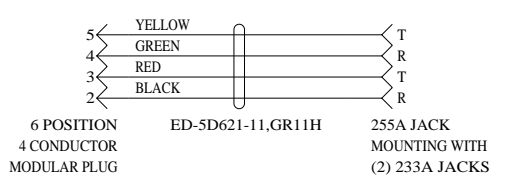
### Ⓒ CAD 25

ACU MODEM CONNECTOR  
TRW 2322125005



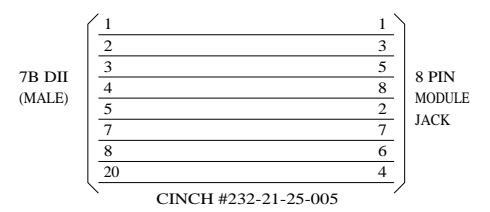
### Ⓓ CAD 26

CST HEADSET EXTENSION CABLE



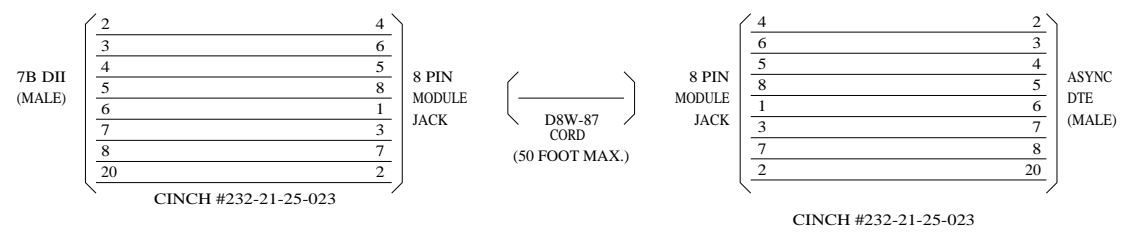
### Ⓔ CAD 27

DII TO 3B2 PORT  
ACU MODEM CONNECTOR



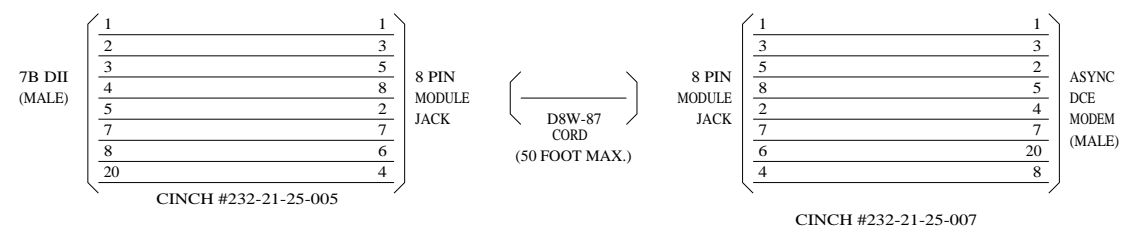
### Ⓕ CAD 28

DII TO ASYNCHRONOUS DTE



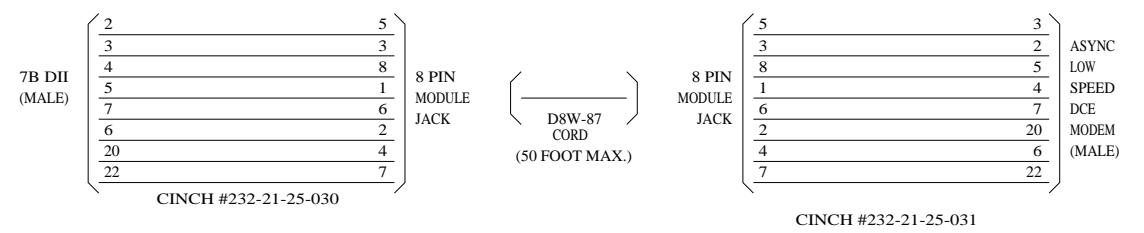
### Ⓖ CAD 29

DII TO ASYNCHRONOUS DCE  
(NULL MODEM)



### Ⓖ CAD 30

DII TO ASYNCHRONOUS LOW SPEED DCE  
(NULL MODEM WITH DSR)



D

E

F

G

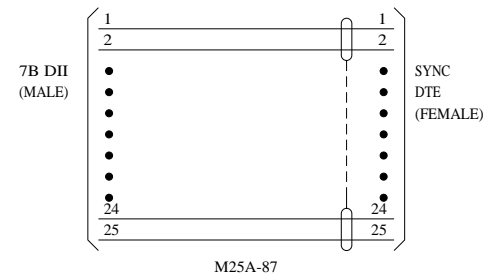
H

0 1 2 3 4 5 6 7 8 9

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OSPS APPLICATION SCHEMATIC	DWG SIZE	ISSUE
	C2	9B
Lucent Technologies	SD-5D135-01	SHEET G6

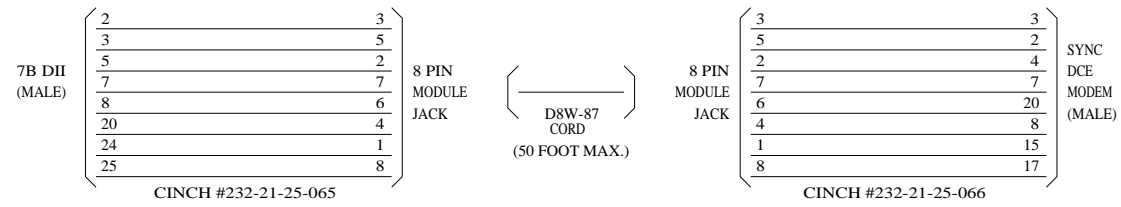
# Ⓩ CAD 31

DII TO SYNCHRONOUS DTE



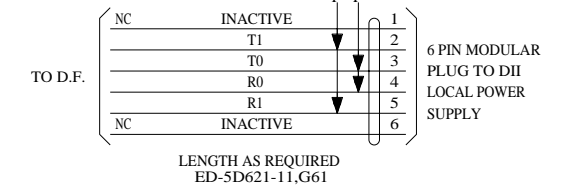
# Ⓨ CAD 32

DII TO SYNCHRONOUS DCE (NULL MODEM)



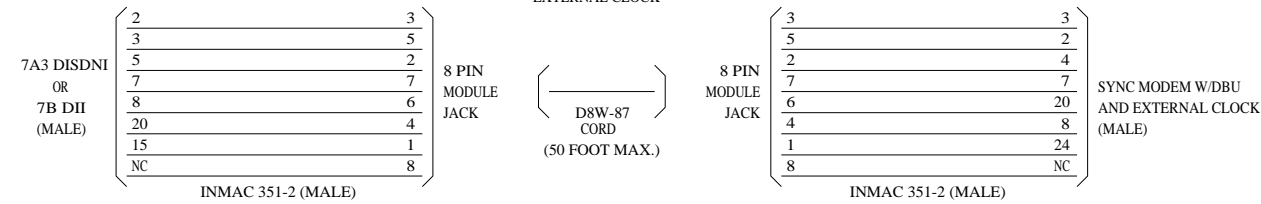
# Ⓧ CAD 33

D.F. TO DII WHEN 353A LOCAL POWER SUPPLY IS USED



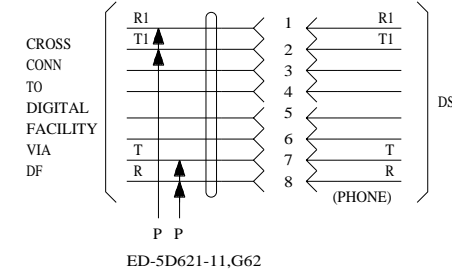
# Ⓩ CAD 34

DII TO SYNC MODEM W/DBU AND EXTERNAL CLOCK



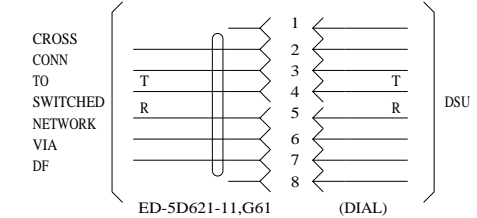
# CAD 35

3610 DSU TO FACILITY



# CAD 36

3610 DSU TO PSTN



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OSPS APPLICATION SCHEMATIC

DWG SIZE  
C2

ISSUE  
16M

Lucent Technologies

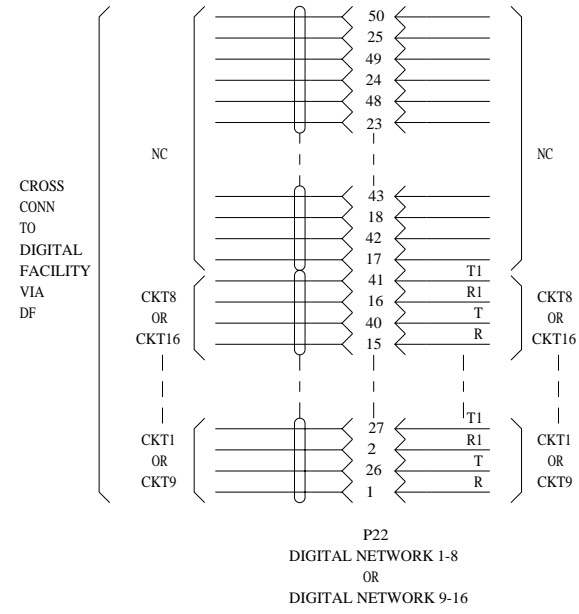
SD-5D135-01

SHEET  
G7



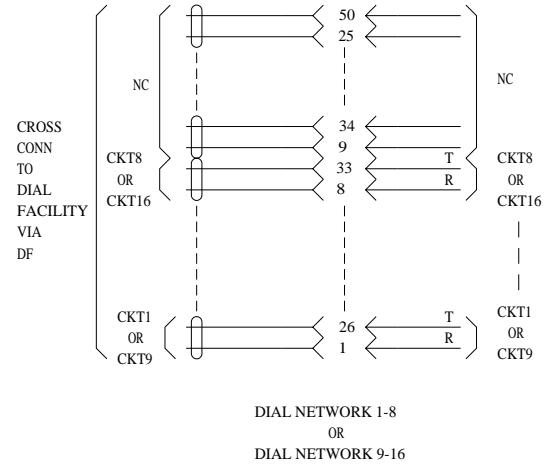
# CAD 37

MODEM W/DBU  
DIGITAL LINES



# CAD 38

MODEM W/DBU  
DIAL LINES



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OSPS APPLICATION SCHEMATIC

DWG SIZE  
**C2**

ISSUE  
**13B**

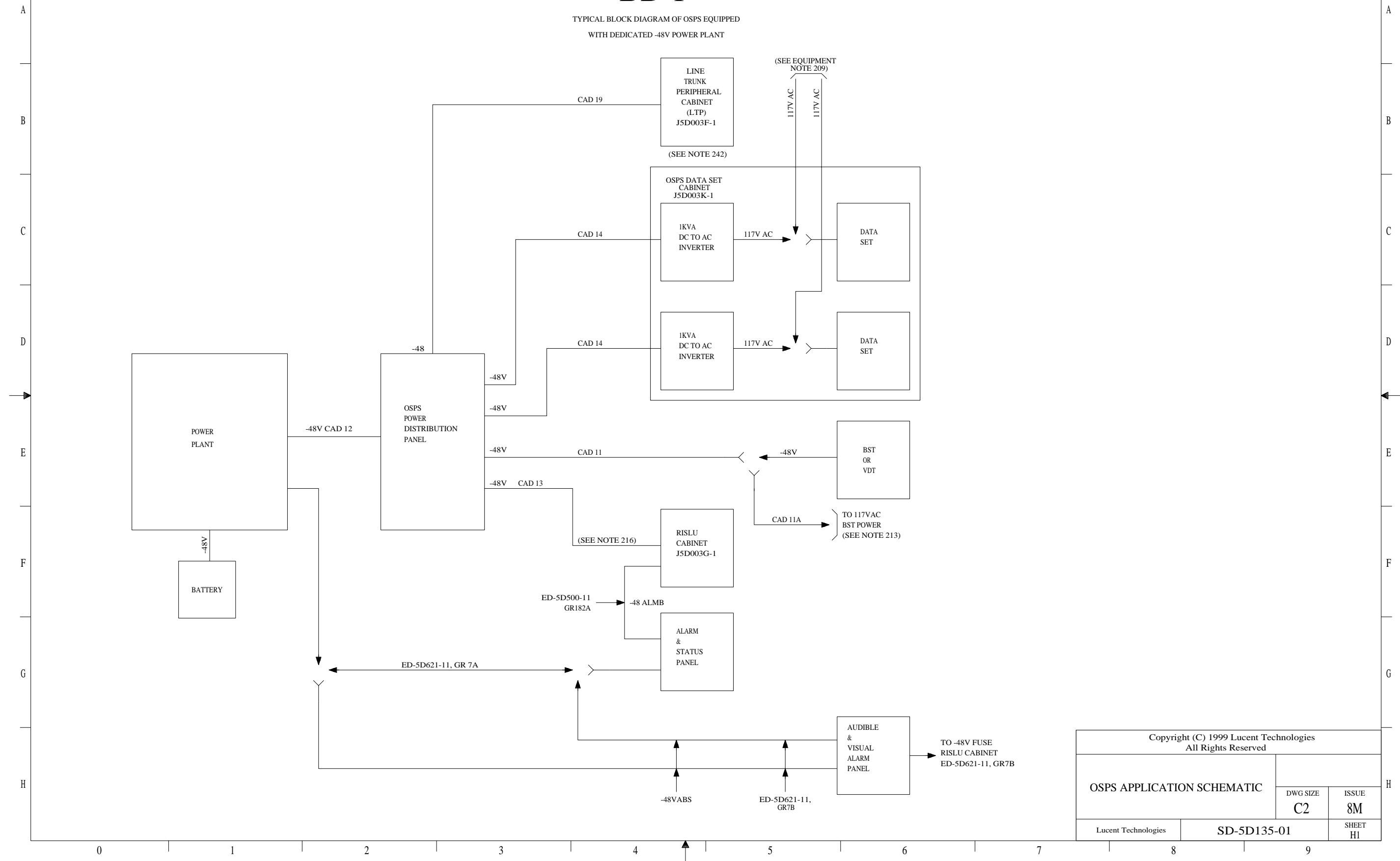
Lucent Technologies

SD-5D135-01

SHEET  
G8

# BD 1

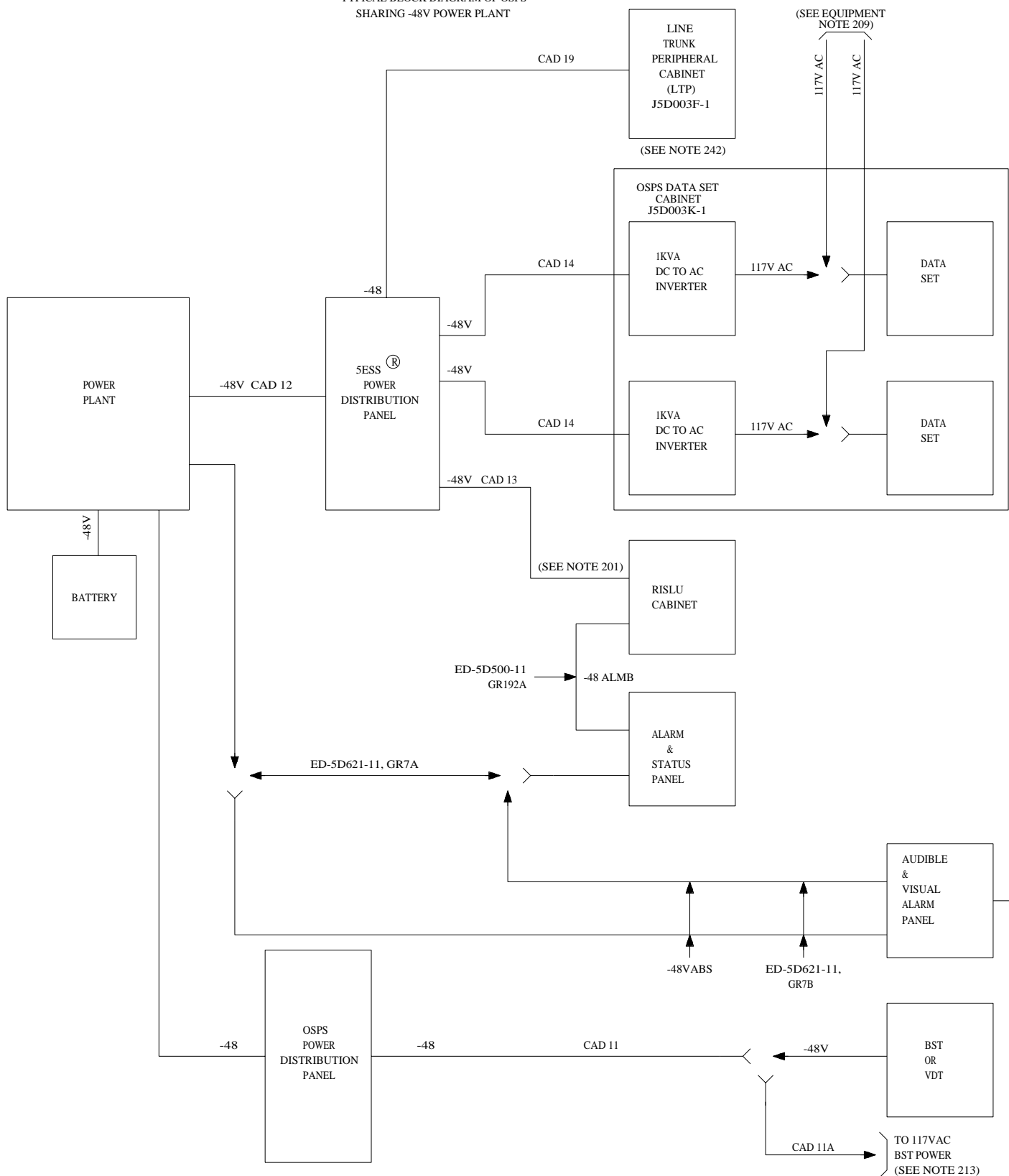
TYPICAL BLOCK DIAGRAM OF OSPS EQUIPPED  
WITH DEDICATED -48V POWER PLANT



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OSPS APPLICATION SCHEMATIC	DWG SIZE	ISSUE
	C2	8M
Lucent Technologies	SD-5D135-01	SHEET H1

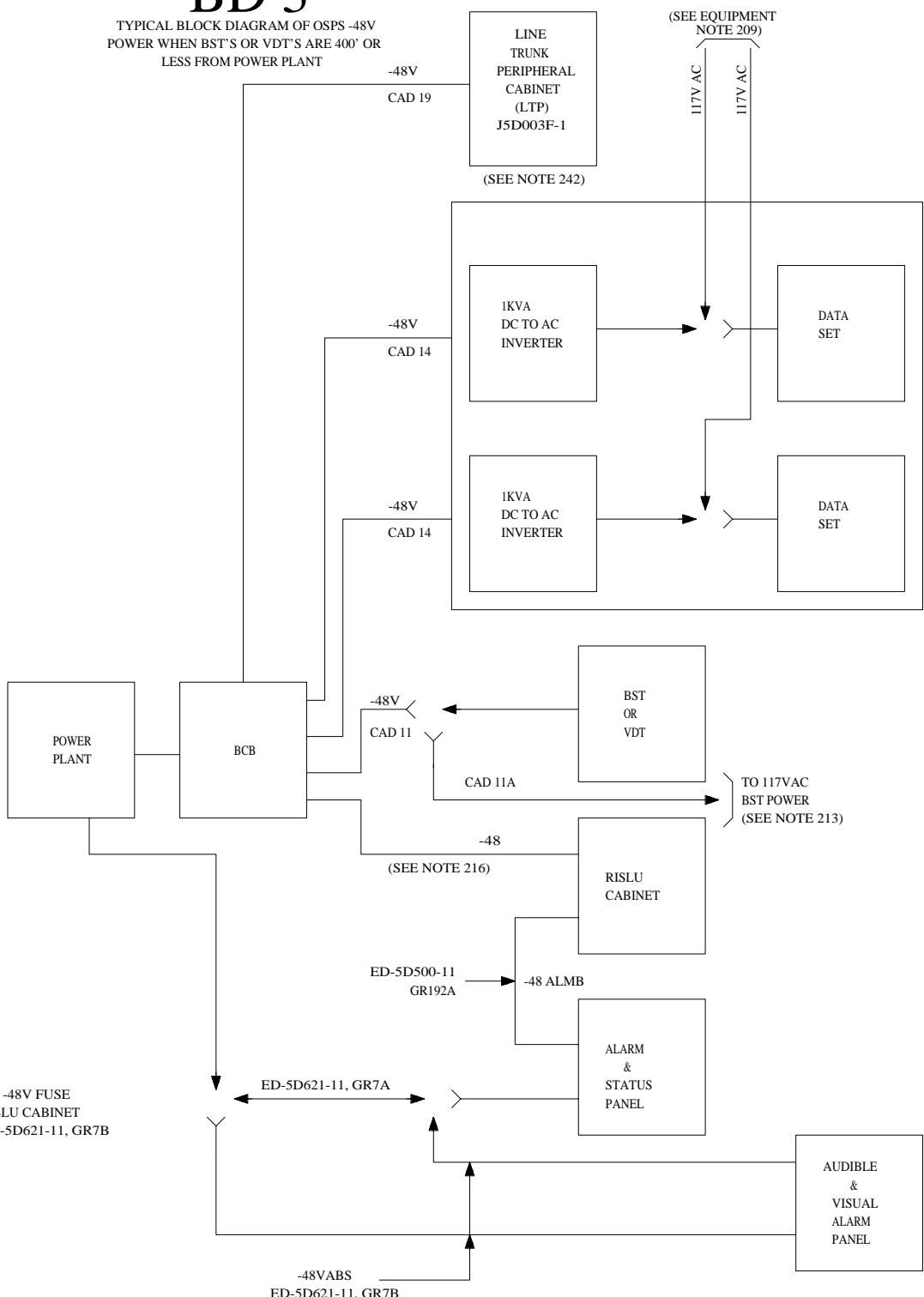
# BD 2

TYPICAL BLOCK DIAGRAM OF OSPS SHARING -48V POWER PLANT



# BD 3

TYPICAL BLOCK DIAGRAM OF OSPS -48V POWER WHEN BST'S OR VDT'S ARE 400' OR LESS FROM POWER PLANT

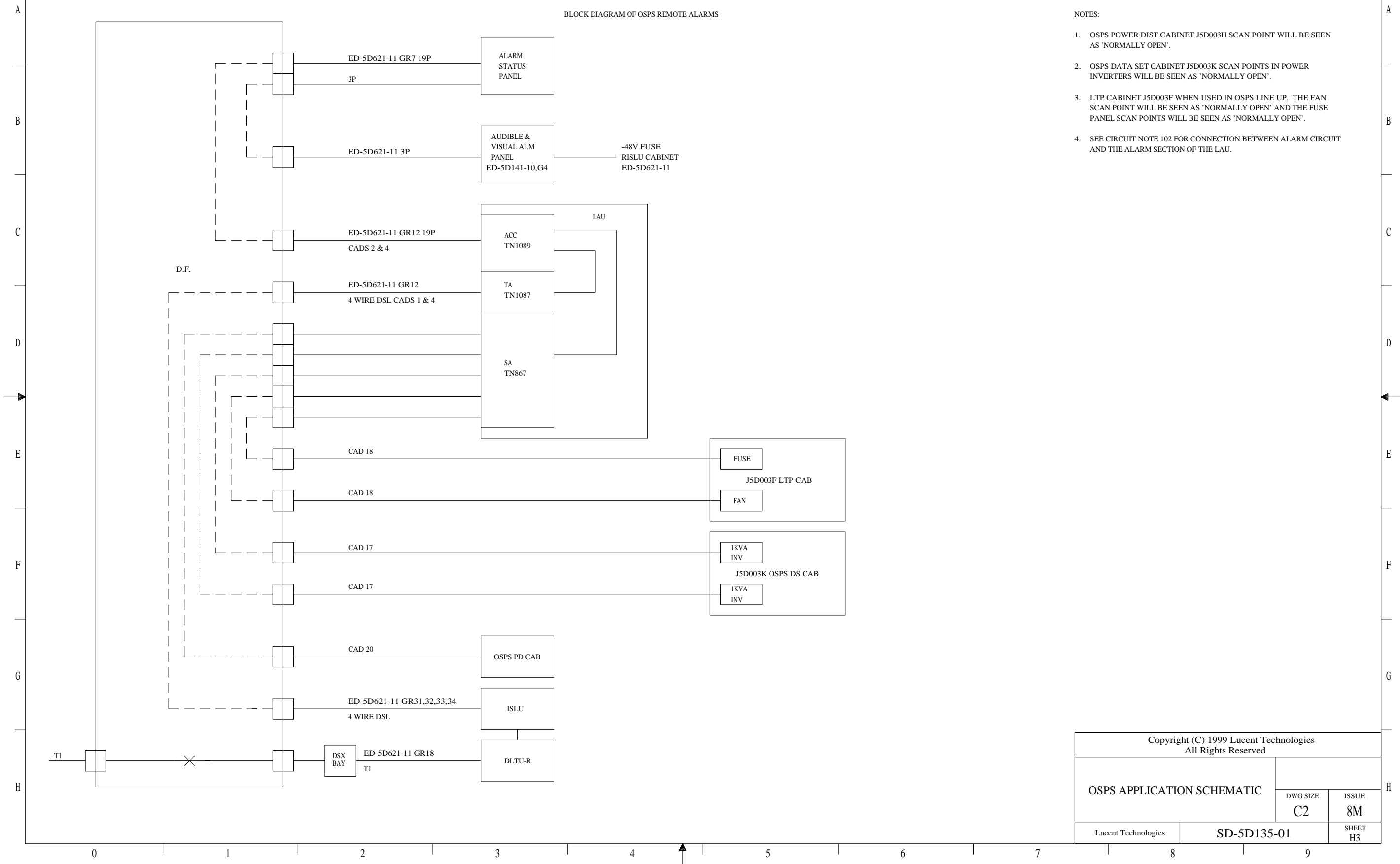


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OSPS APPLICATION SCHEMATIC		DWG SIZE	ISSUE
		C2	8M
Lucent Technologies	SD-5D135-01	SHEET H2	

# BD 4

BLOCK DIAGRAM OF OSPS REMOTE ALARMS



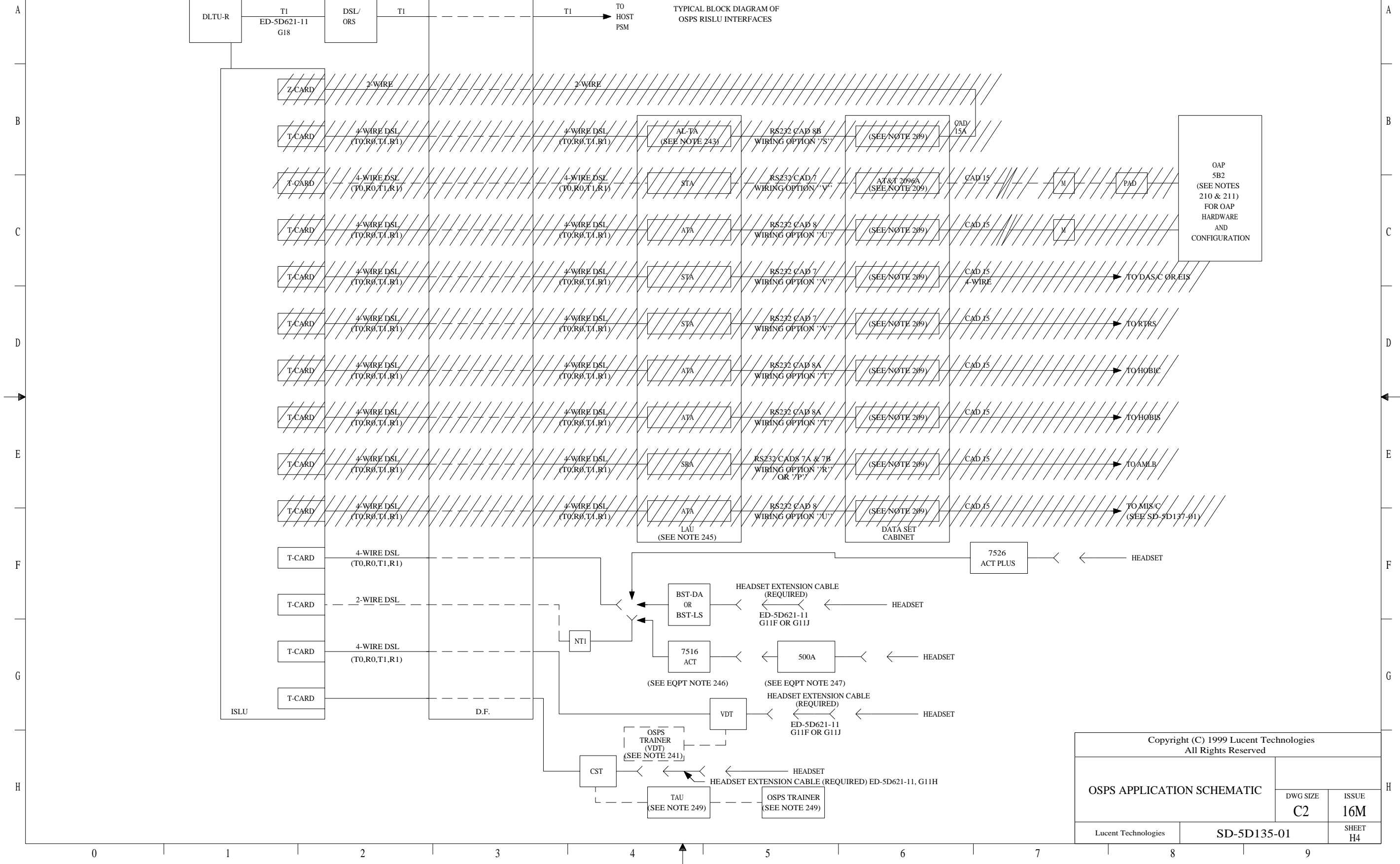
NOTES:

1. OSPS POWER DIST CABINET J5D003H SCAN POINT WILL BE SEEN AS 'NORMALLY OPEN'.
2. OSPS DATA SET CABINET J5D003K SCAN POINTS IN POWER INVERTERS WILL BE SEEN AS 'NORMALLY OPEN'.
3. LTP CABINET J5D003F WHEN USED IN OSPS LINE UP. THE FAN SCAN POINT WILL BE SEEN AS 'NORMALLY OPEN' AND THE FUSE PANEL SCAN POINTS WILL BE SEEN AS 'NORMALLY OPEN'.
4. SEE CIRCUIT NOTE 102 FOR CONNECTION BETWEEN ALARM CIRCUIT AND THE ALARM SECTION OF THE LAU.

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OSPS APPLICATION SCHEMATIC	DWG SIZE	ISSUE
	C2	8M
Lucent Technologies	SD-5D135-01	SHEET H3

# BD 5

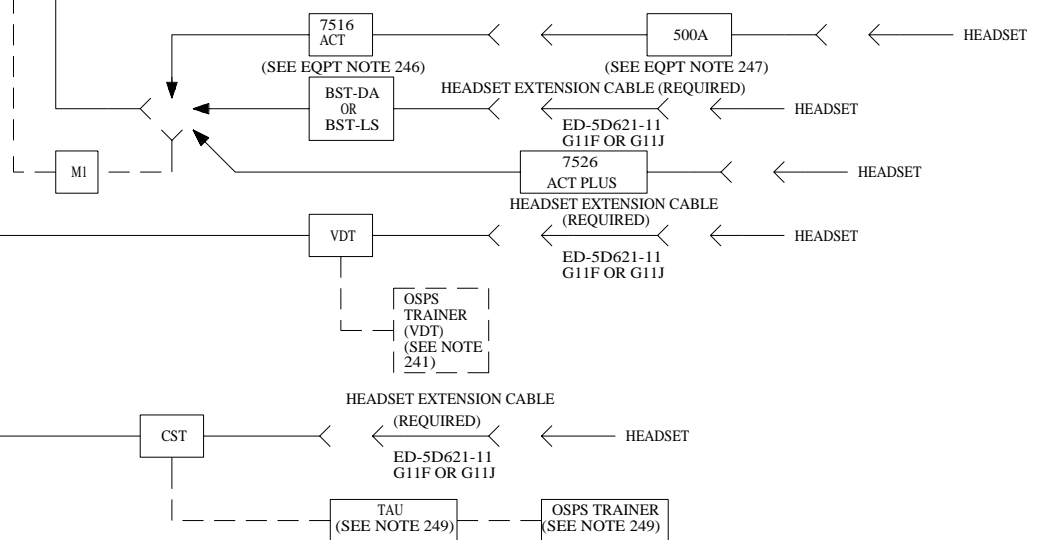
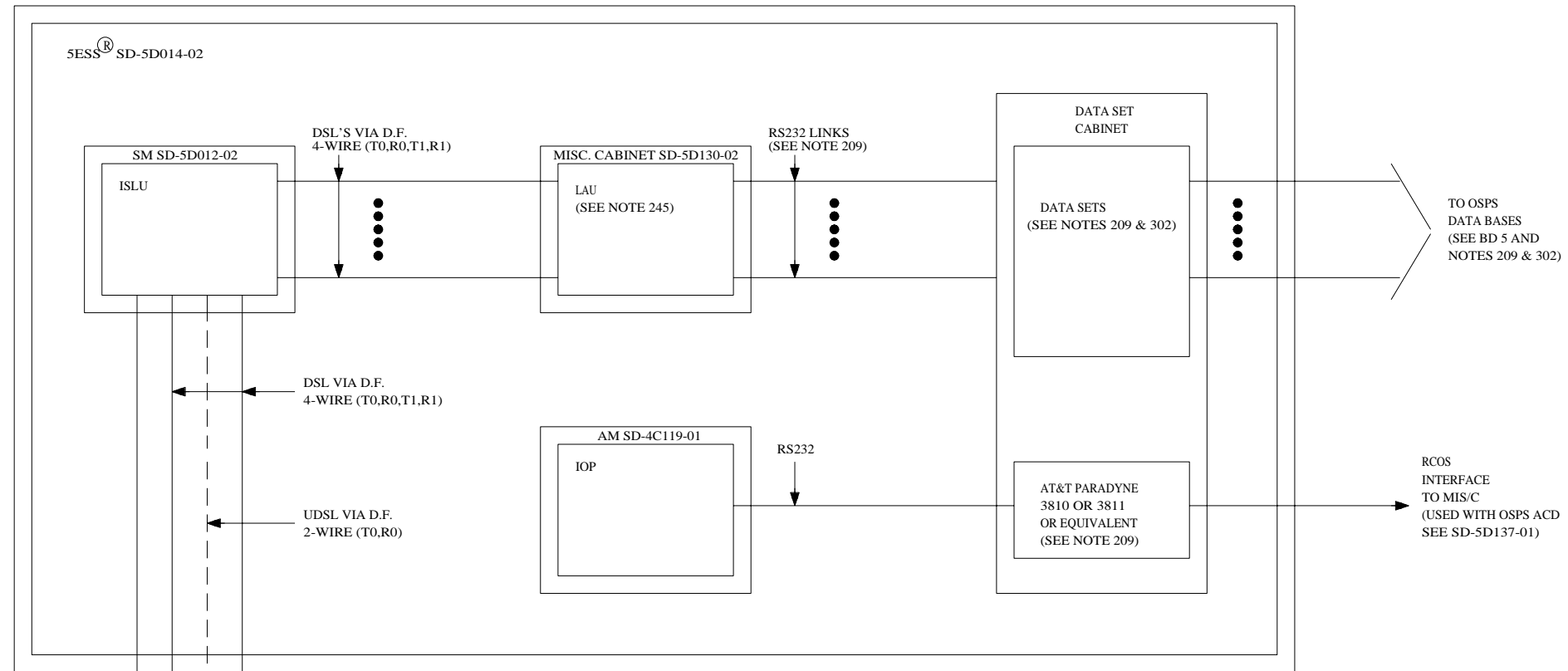
TYPICAL BLOCK DIAGRAM OF  
OSPS RISLU INTERFACES



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OSPS APPLICATION SCHEMATIC		ISSUE 16M
Lucent Technologies	SD-5D135-01	SHEET H4

# BD 6

TYPICAL BLOCK DIAGRAM OF  
OSPS ISLU INTERFACES



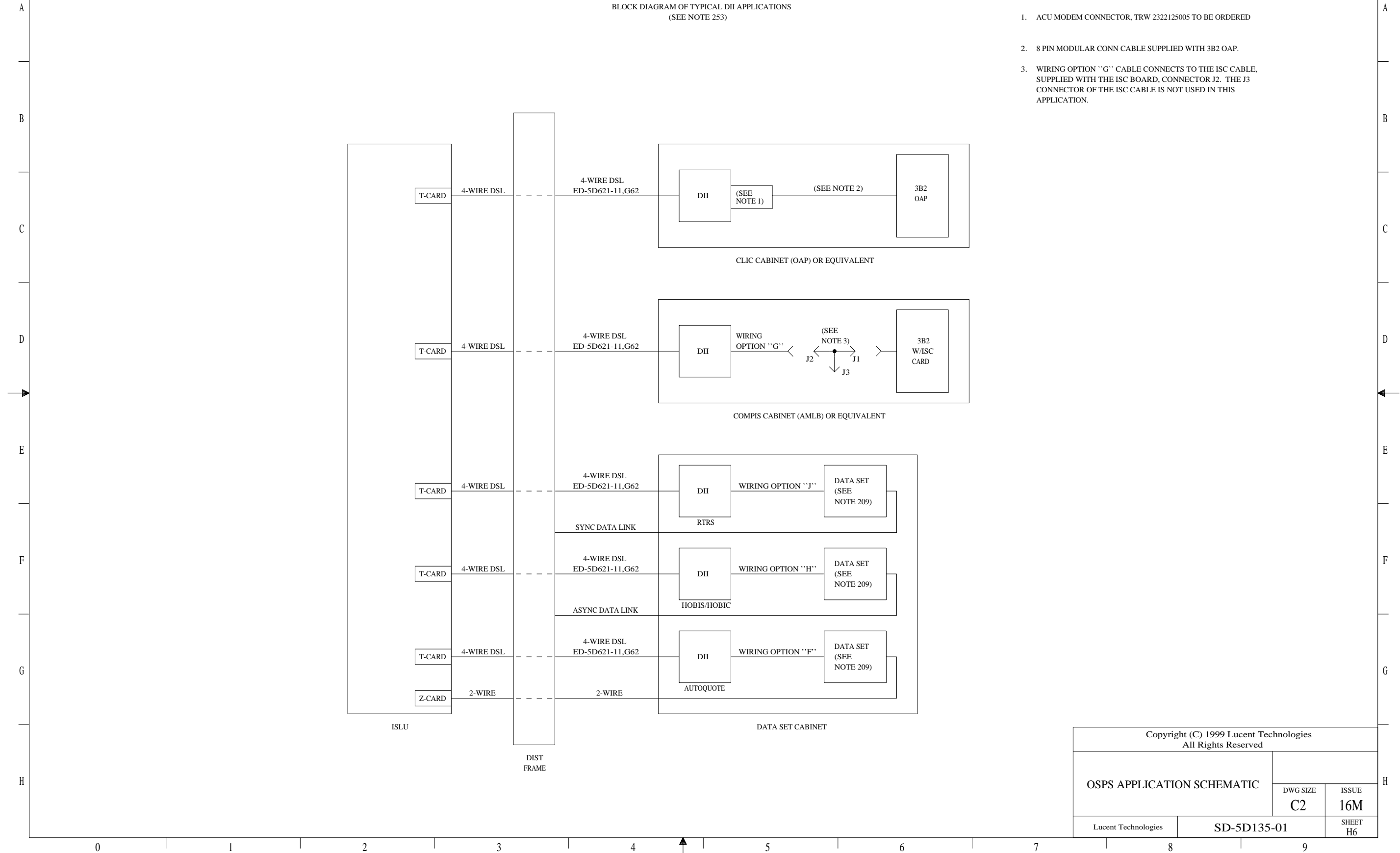
Copyright (C) 1999 Lucent Technologies All Rights Reserved		
OSPS APPLICATION SCHEMATIC	DWG SIZE	ISSUE
	C2	16M
Lucent Technologies	SD-5D135-01	SHEET H5

# BD 7

BLOCK DIAGRAM OF TYPICAL DII APPLICATIONS  
(SEE NOTE 253)

NOTES:

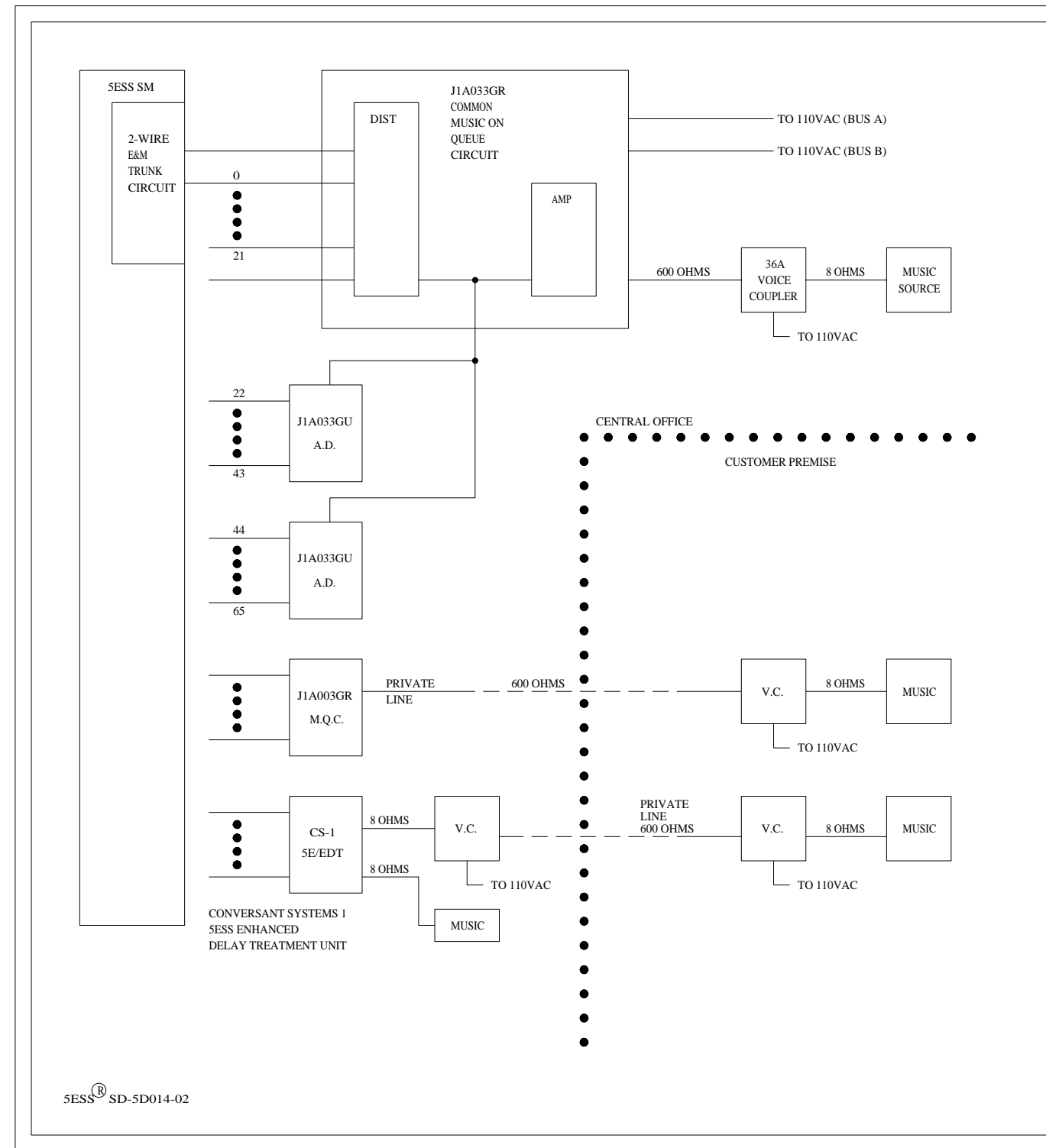
1. ACU MODEM CONNECTOR, TRW 2322125005 TO BE ORDERED
2. 8 PIN MODULAR CONN CABLE SUPPLIED WITH 3B2 OAP.
3. WIRING OPTION "G" CABLE CONNECTS TO THE ISC CABLE, SUPPLIED WITH THE ISC BOARD, CONNECTOR J2. THE J3 CONNECTOR OF THE ISC CABLE IS NOT USED IN THIS APPLICATION.



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OSPS APPLICATION SCHEMATIC	DWG SIZE	ISSUE
	C2	16M
Lucent Technologies	SD-5D135-01	SHEET H6

# BD 8

TYPICAL APPLICATION OF MUSIC ON QUEUE



NOTES:

- MUSIC ON QUEUE CIRCUIT CONTROLLED BY SD-1A432-01-1.
- CONVERSANT SYSTEMS CS-1, USED FOR MUSIC ON HOLD, CONTROLLED BY SD-5P095-01.
- A MAXIMUM OF 66 2 WIRE, E&M TRUNK CIRCUITS CAN BE ACCESSED BY A J1A033GR MUSIC ON QUEUE CIRCUIT WHEN USED IN CONJUNCTION WITH TWO J1A033GU UNITS.
- THE MUSIC ON QUEUE EQUIPMENT WILL BE HOUSED IN THE MISCELLANEOUS CABINET, SD-5D130-01.
- 36A VOICE COUPLER COMCODE IS: 103558961.

5ESS<sup>®</sup> SD-5D014-02

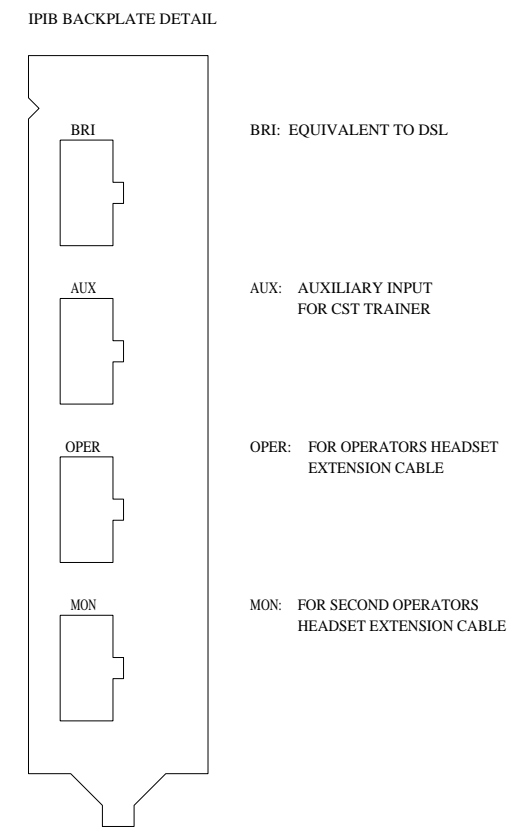
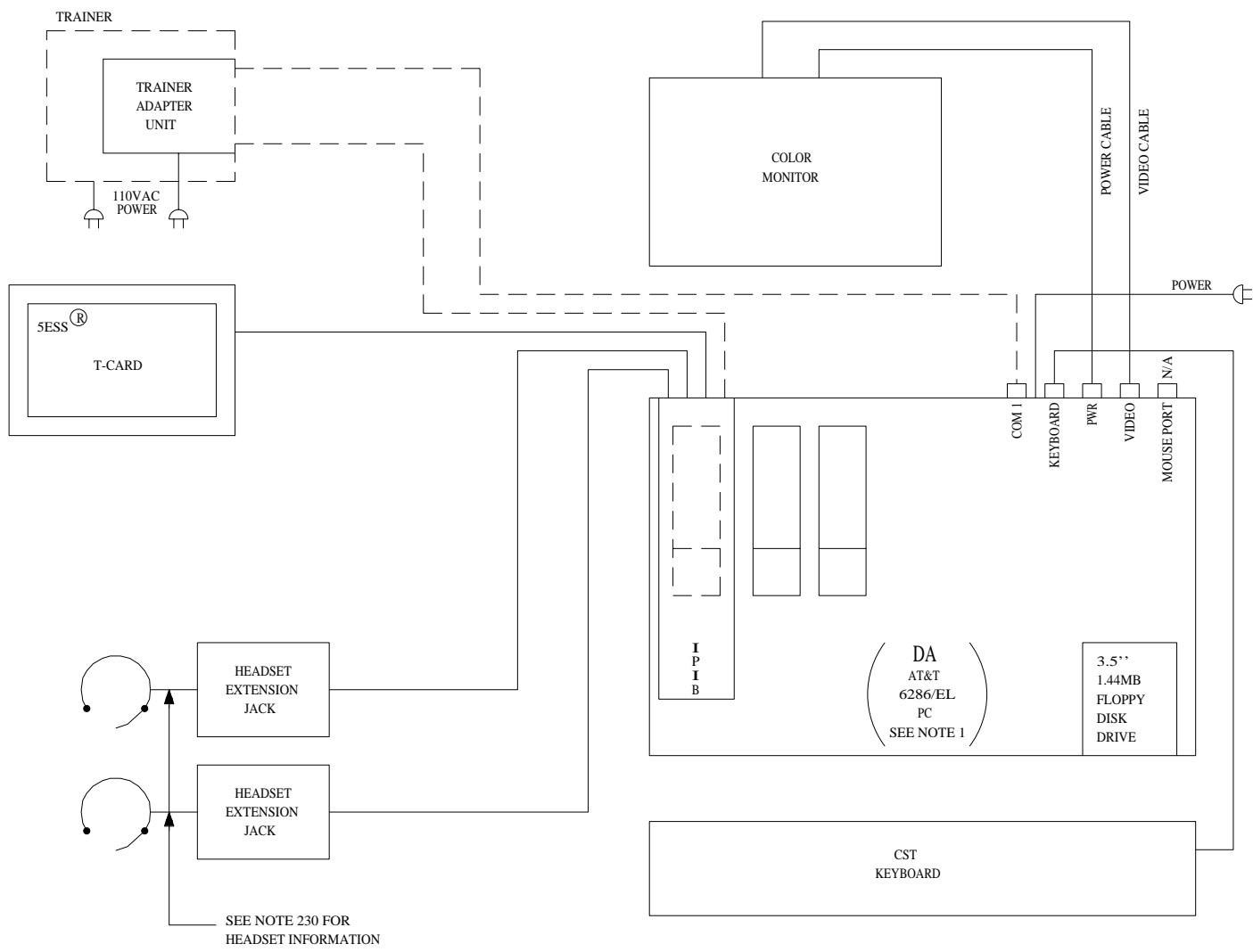
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OSPS APPLICATION SCHEMATIC	DWG SIZE	ISSUE
	C2	11B
Lucent Technologies	SD-5D135-01	SHEET H7



# BD 9

TYPICAL OSPS CST CONFIGURATION

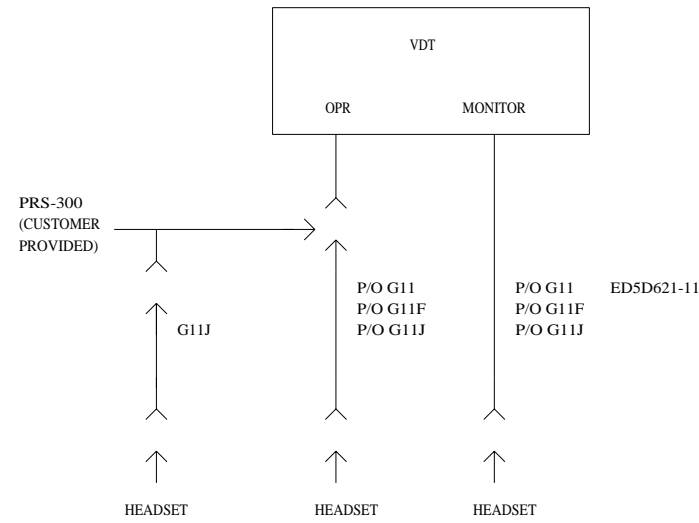
NOTE  
 1. COMBINED SERVICE TERMINAL  
 IS A GIS GLOBALYST 515  
 PERSONAL COMPUTER, SEE  
 ED5D522-33, GROUP 425  
 FOR DETAILS.



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OSPS APPLICATION SCHEMATIC	DWG SIZE	ISSUE
	C2	16M
Lucent Technologies	SD-5D135-01	SHEET H8

# BD 10

VIDEO DISPLAY TERMINAL  
(VDT)  
#56D505AAA TELETYPE CORP.



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OSPS APPLICATION SCHEMATIC

DWG SIZE  
C2

ISSUE  
15B

Lucent Technologies

SD-5D135-01

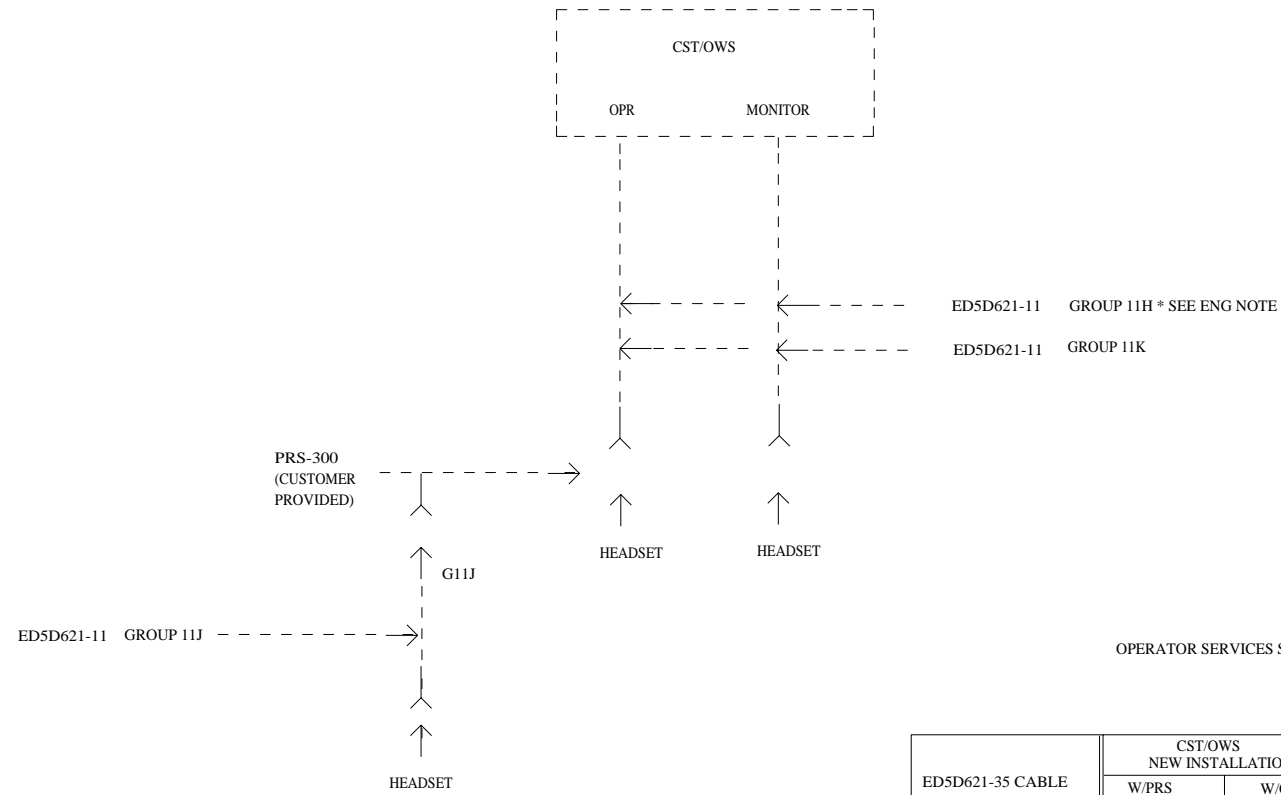
SHEET  
H9

# BD 11

ELECTRONIC SWITCHING SYSTEMS SESS OPERATOR SERVICES  
 POSITION SYSTEM APPLICATION SCHEMATIC  
 CST/OWS HEADSET CONNECTIONS  
 WITH OR WITHOUT PRS-300

NOTE:

ED5D621-11, GROUP 11H IS OMITTED WHEN ED5D621-11,  
 GROUP 11J IS PROVIDED.



OPERATOR SERVICES SYSTEM HEADSET CABLE APPLICATION TABLE

ED5D621-35 CABLE	CST/OWS NEW INSTALLATION		VDT		UPGRADE VDT TO CST/OWS	
	W/PRS	W/O PRS	W/PRS	W/O PRS	W/PRS	W/O PRS
GRP 124 VDT	N/A	N/A	(0) OR (1) 124	(2) 124 OR (1) 124 + (1) 124B	N/A	N/A
GRP 124A CST/OWS	DA	DA	N/A	N/A	DA	DA
GRP 124B PRS W/VDT	(1) 124B	N/A	(1) OR (2) 124B	(2) 124B OR (1) 124B + (1) 124	(1) 124B	N/A
GRP 124C ESDGRD CABLE	N/A	N/A	N/A	N/A	N/A	N/A
GRP 124D (CST) OR (OWS) W/ OR W/O PRS T/R	(2) 124D	(2) 124D	N/A	N/A	(2) 124D	(2) 124D

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OSPS APPLICATION SCHEMATIC	DWG SIZE	ISSUE
	C2	17B
Lucent Technologies	SD-5D135-01	SHEET H10