

ENGINEERING NOTES

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ENGINEERING NOTES

51. THIS DRAWING CONTAINS AIU INFO ONLY.

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CONTINUED TO THE LEFT

ISSUE NOTES

NDD CASE NO. H8021

ORIG ISS: 01/15/97 NDD NBR: NDD5D825NW-1 CHANGE CLASS: NEW

DRAFT: WJV ENGR: WJV SUPV: CERTIFIED: 01/15/97 ISSUE: 1

SHEET B9, FIG 9 MODIFIED FOR FAN SENSORS. NEW SHEET B10 ADDED WITH FIG 10 AND SK F FOR FAN SENSORS (THERMISTORS) LOCATIONS REQUIRED WITH 2 OR 4 UNIT APPLICATION. FIG'S 11, 12 AND SK'S G, H AND H1 ADDED FOR 64 PAIR CABLES (1AESS CONVERSIONS ONLY).

ORIG ISS: 01/15/97 NDD NBR: NDD8G000NW-5 CHANGE CLASS: ME

DRAFT: WJV ENGR: WJV SUPV: CERTIFIED: 02/26/97 ISSUE: 2

(09071) SHT'S B1 THRU B13 REFORMATTED TO B & C SECTIONS AND PRO-E FORMAT OF ALL FIGURES. SHTS B9 THRU B14 AND C1 THRU C19 ADDED. ENG NT 52 REFORMATTED TO AGREE WITH B & C SHT'S.

ORIG ISS: 01/15/97 CHANGE CLASS: B

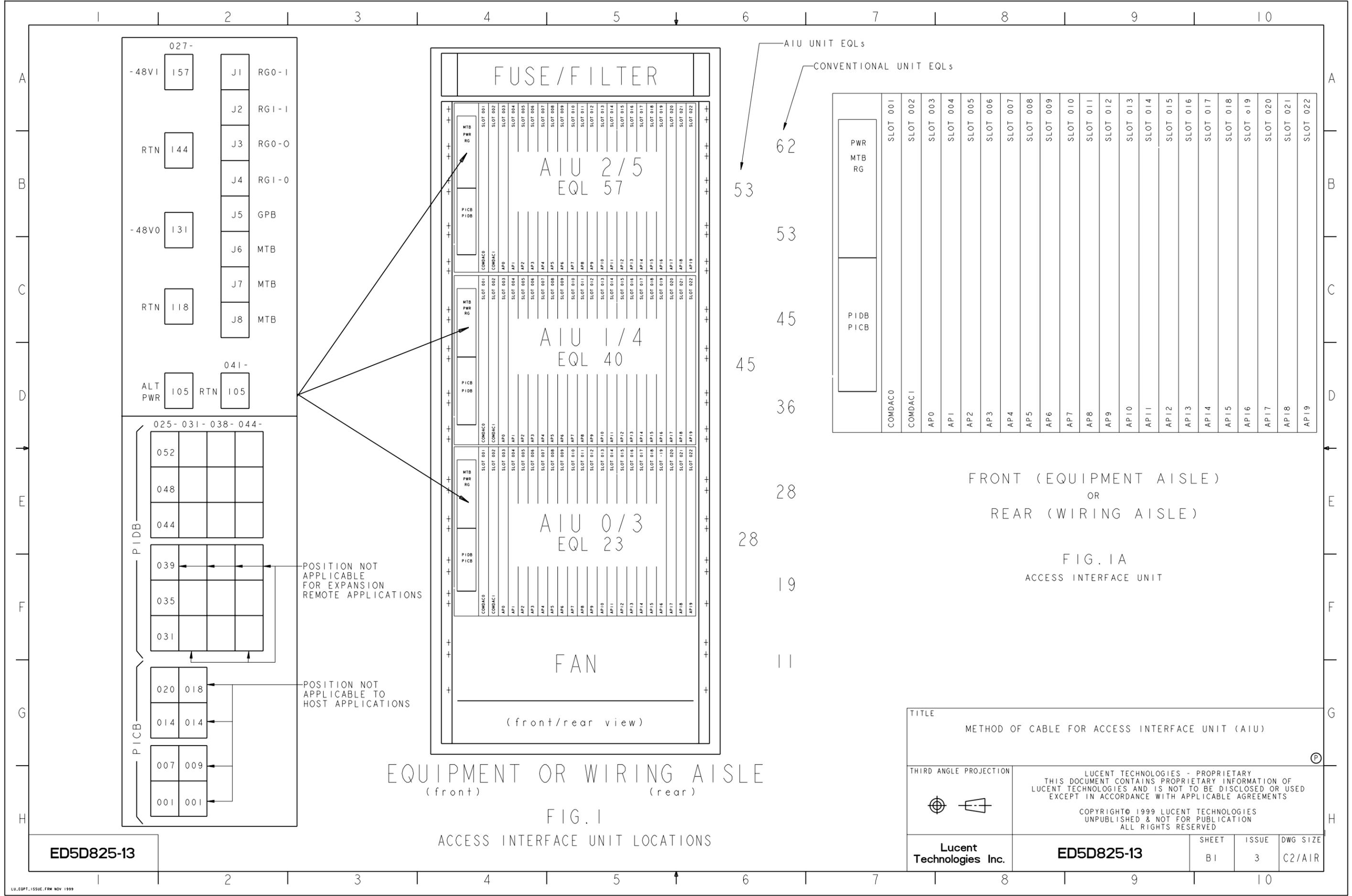
DRAFT: JAS ENGR: JAS SUPV: CERTIFIED: 07/13/00 ISSUE: 3

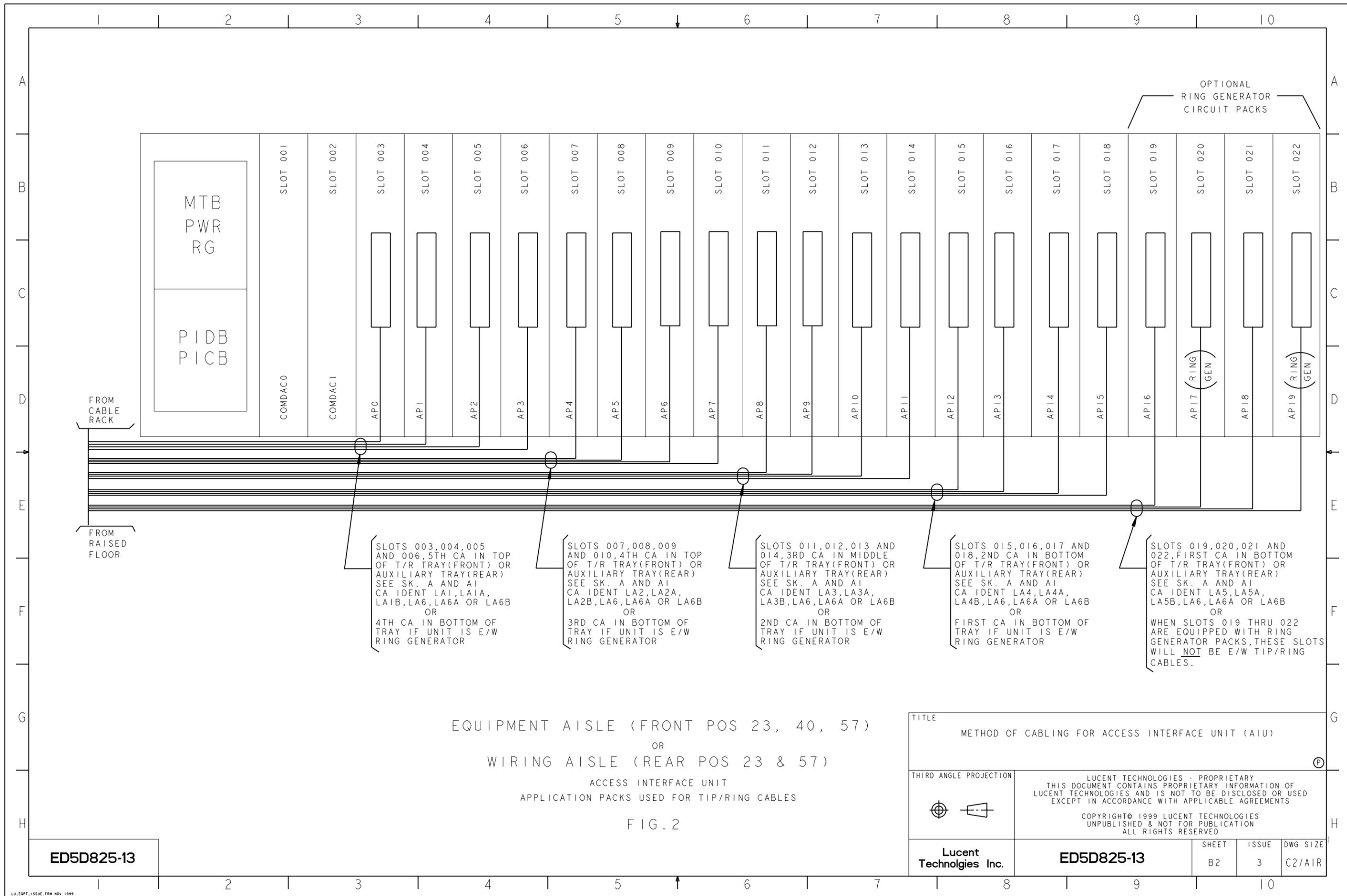
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SHT NBR	C12	C13	C14	C15	C16	C17	C18	C19				
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BT13	
5ESS SWITCHING EQUIPMENT METHOD OF CABLING FOR ACCESS INTERFACE UNIT (AIU)	
DWG SIZE C2	ISSUE 3
LUCENT TECHNOLOGIES INC	ED5D825-13
SHEET A1 OF 34	





SLOTS 003,004,005 AND 006, 5TH CA IN TOP OF T/R TRAY(FRONT) OR AUXILIARY TRAY(REAR) SEE SK. A AND A1 CA IDENT LA1,LA1A, LA1B,LA6,LA6A OR LA6B OR 4TH CA IN BOTTOM OF TRAY IF UNIT IS E/W RING GENERATOR

SLOTS 007,008,009 AND 010, 4TH CA IN TOP OF T/R TRAY(FRONT) OR AUXILIARY TRAY(REAR) SEE SK. A AND A1 CA IDENT LA2,LA2A, LA2B,LA6,LA6A OR LA6B OR 3RD CA IN BOTTOM OF TRAY IF UNIT IS E/W RING GENERATOR

SLOTS 011,012,013 AND 014, 3RD CA IN MIDDLE OF T/R TRAY(FRONT) OR AUXILIARY TRAY(REAR) SEE SK. A AND A1 CA IDENT LA3,LA3A, LA3B,LA6,LA6A OR LA6B OR 2ND CA IN BOTTOM OF TRAY IF UNIT IS E/W RING GENERATOR

SLOTS 015,016,017 AND 018, 2ND CA IN BOTTOM OF T/R TRAY(FRONT) OR AUXILIARY TRAY(REAR) SEE SK. A AND A1 CA IDENT LA4,LA4A, LA4B,LA6,LA6A OR LA6B OR FIRST CA IN BOTTOM OF TRAY IF UNIT IS E/W RING GENERATOR

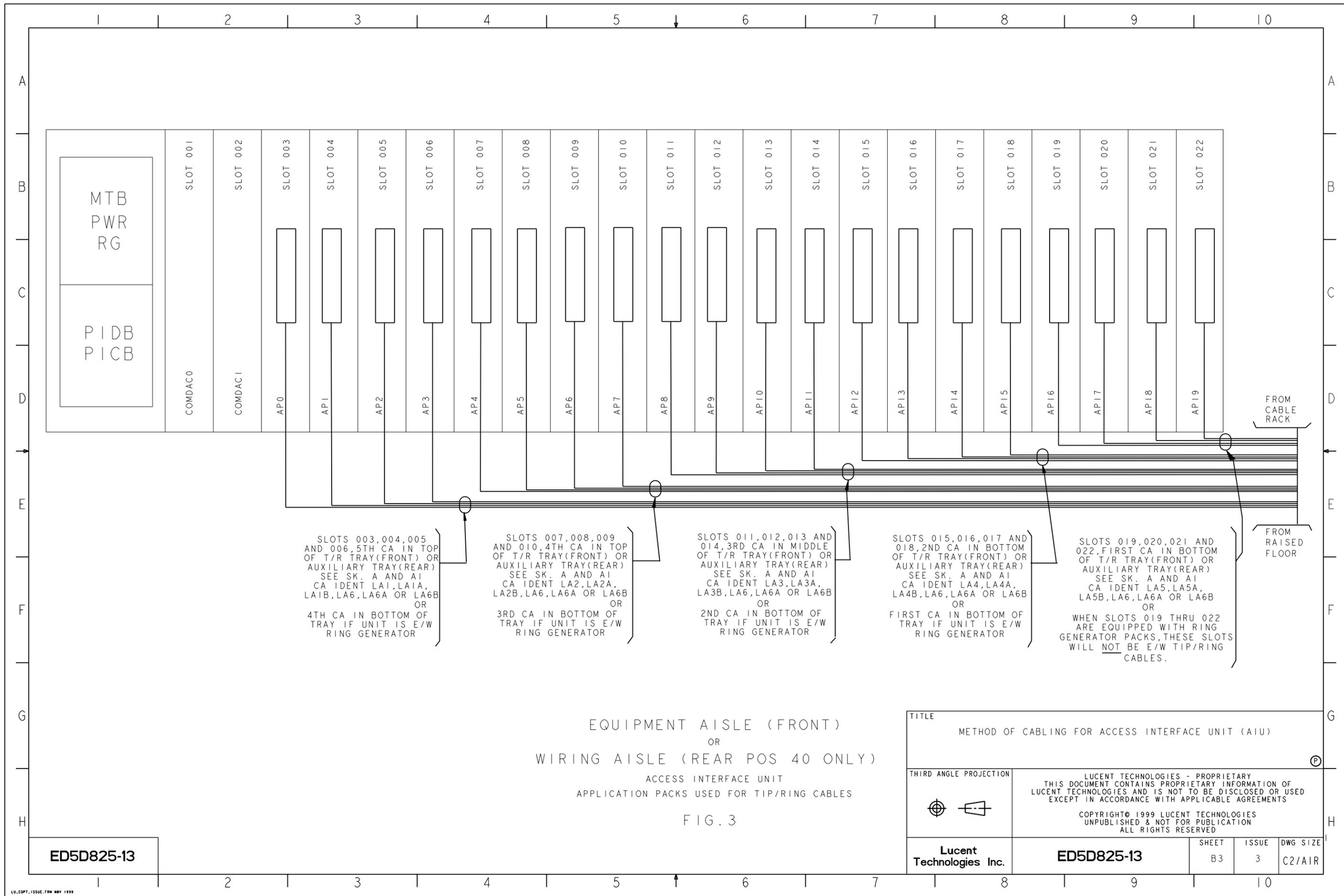
SLOTS 019,020,021 AND 022, FIRST CA IN BOTTOM OF T/R TRAY(FRONT) OR AUXILIARY TRAY(REAR) SEE SK. A AND A1 CA IDENT LA5,LA5A, LA5B,LA6,LA6A OR LA6B OR WHEN SLOTS 019 THRU 022 ARE EQUIPPED WITH RING GENERATOR PACKS, THESE SLOTS WILL NOT BE E/W TIP/RING CABLES.

EQUIPMENT AISLE (FRONT POS 23, 40, 57)
OR
WIRING AISLE (REAR POS 23 & 57)
ACCESS INTERFACE UNIT
APPLICATION PACKS USED FOR TIP/RING CABLES

FIG. 2

TITLE METHOD OF CABLING FOR ACCESS INTERFACE UNIT (AIU)			
THIRD ANGLE PROJECTION 			
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SLOTS 003,004,005 AND 006,5TH CA IN TOP OF T/R TRAY(FRONT) OR AUXILIARY TRAY(REAR) SEE SK. A AND A1 CA IDENT LA1,LA1A, LA1B,LA6,LA6A OR LA6B OR 4TH CA IN BOTTOM OF TRAY IF UNIT IS E/W RING GENERATOR

SLOTS 007,008,009 AND 010,4TH CA IN TOP OF T/R TRAY(FRONT) OR AUXILIARY TRAY(REAR) SEE SK. A AND A1 CA IDENT LA2,LA2A, LA2B,LA6,LA6A OR LA6B OR 3RD CA IN BOTTOM OF TRAY IF UNIT IS E/W RING GENERATOR

SLOTS 011,012,013 AND 014,3RD CA IN MIDDLE OF T/R TRAY(FRONT) OR AUXILIARY TRAY(REAR) SEE SK. A AND A1 CA IDENT LA3,LA3A, LA3B,LA6,LA6A OR LA6B OR 2ND CA IN BOTTOM OF TRAY IF UNIT IS E/W RING GENERATOR

SLOTS 015,016,017 AND 018,2ND CA IN BOTTOM OF T/R TRAY(FRONT) OR AUXILIARY TRAY(REAR) SEE SK. A AND A1 CA IDENT LA4,LA4A, LA4B,LA6,LA6A OR LA6B OR FIRST CA IN BOTTOM OF TRAY IF UNIT IS E/W RING GENERATOR

SLOTS 019,020,021 AND 022,FIRST CA IN BOTTOM OF T/R TRAY(FRONT) OR AUXILIARY TRAY(REAR) SEE SK. A AND A1 CA IDENT LA5,LA5A, LA5B,LA6,LA6A OR LA6B OR WHEN SLOTS 019 THRU 022 ARE EQUIPPED WITH RING GENERATOR PACKS,THESE SLOTS WILL NOT BE E/W TIP/RING CABLES.

EQUIPMENT AISLE (FRONT)
OR
WIRING AISLE (REAR POS 40 ONLY)
ACCESS INTERFACE UNIT
APPLICATION PACKS USED FOR TIP/RING CABLES

FIG. 3

TITLE METHOD OF CABLING FOR ACCESS INTERFACE UNIT (AIU)			
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SHEET B3	ISSUE 3	DWG SIZE C2/A1R	

ED5D825-13

1 2 3 4 5 6 7 8 9 10

A B C D E F G H

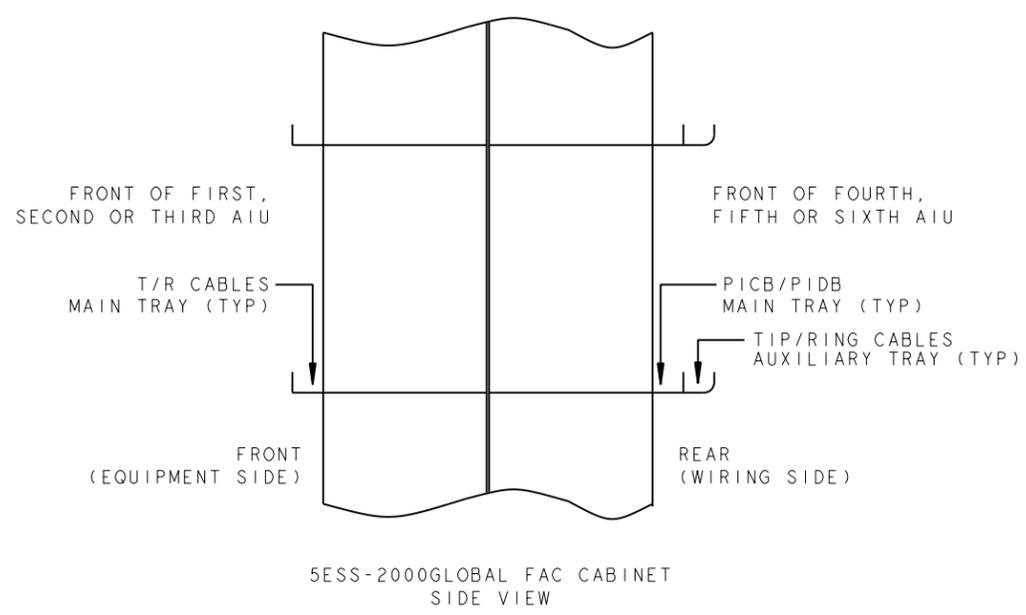
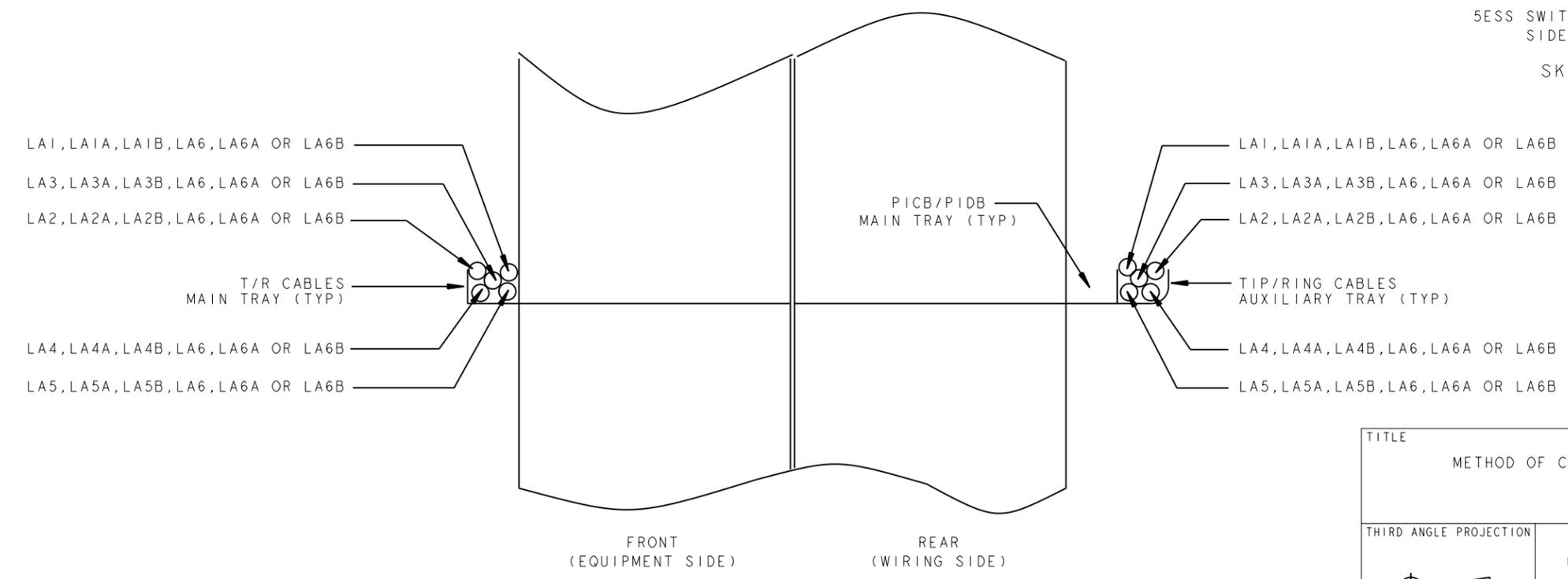
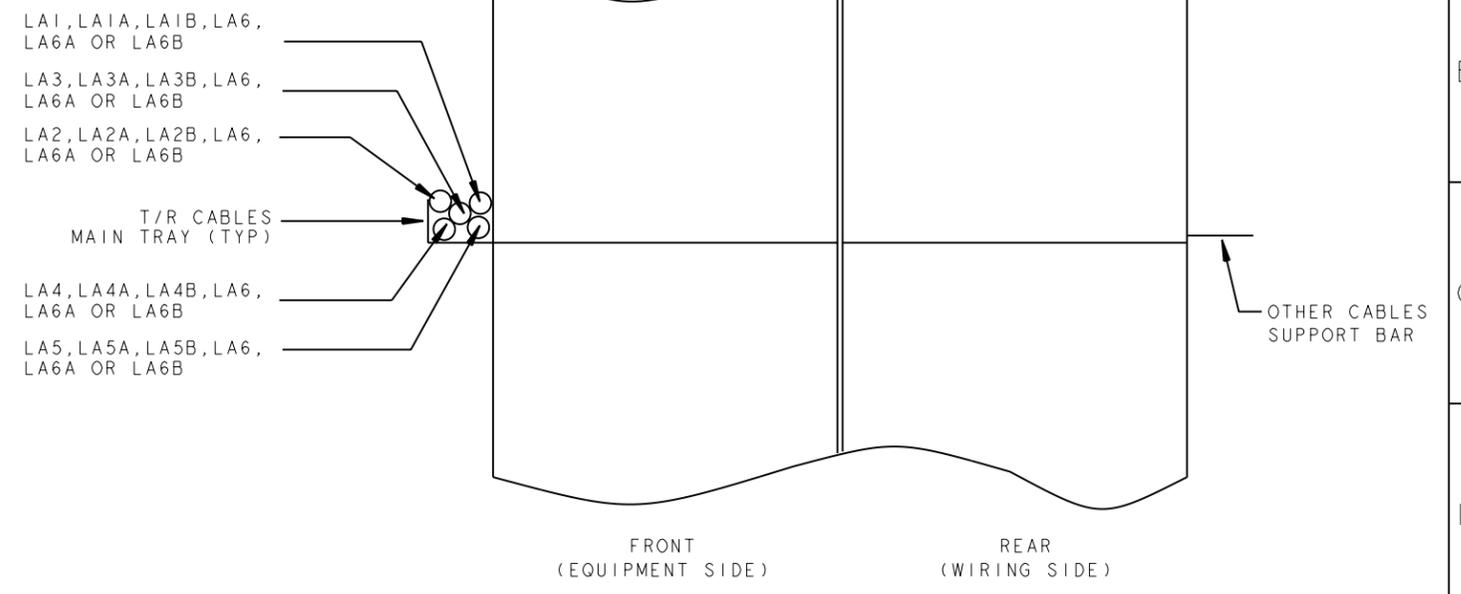


FIG. 4



SK. A

TITLE			
METHOD OF CABLING FOR ACCESS INTERACE UNIT (AIU)			
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		DWG SIZE C2/AIR	

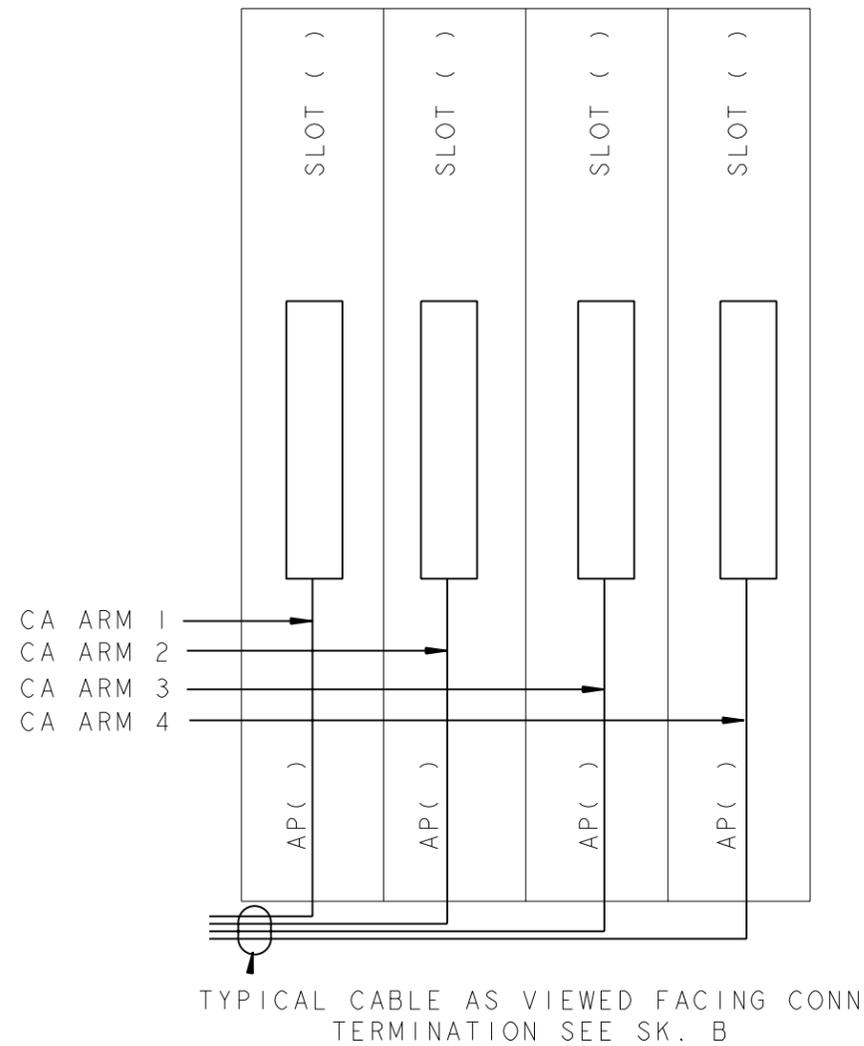
ED5D825-13

1 2 3 4 5 6 7 8 9 10

1 2 3 4 5 6 7 8 9 10

A
B
C
D
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A
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C
D
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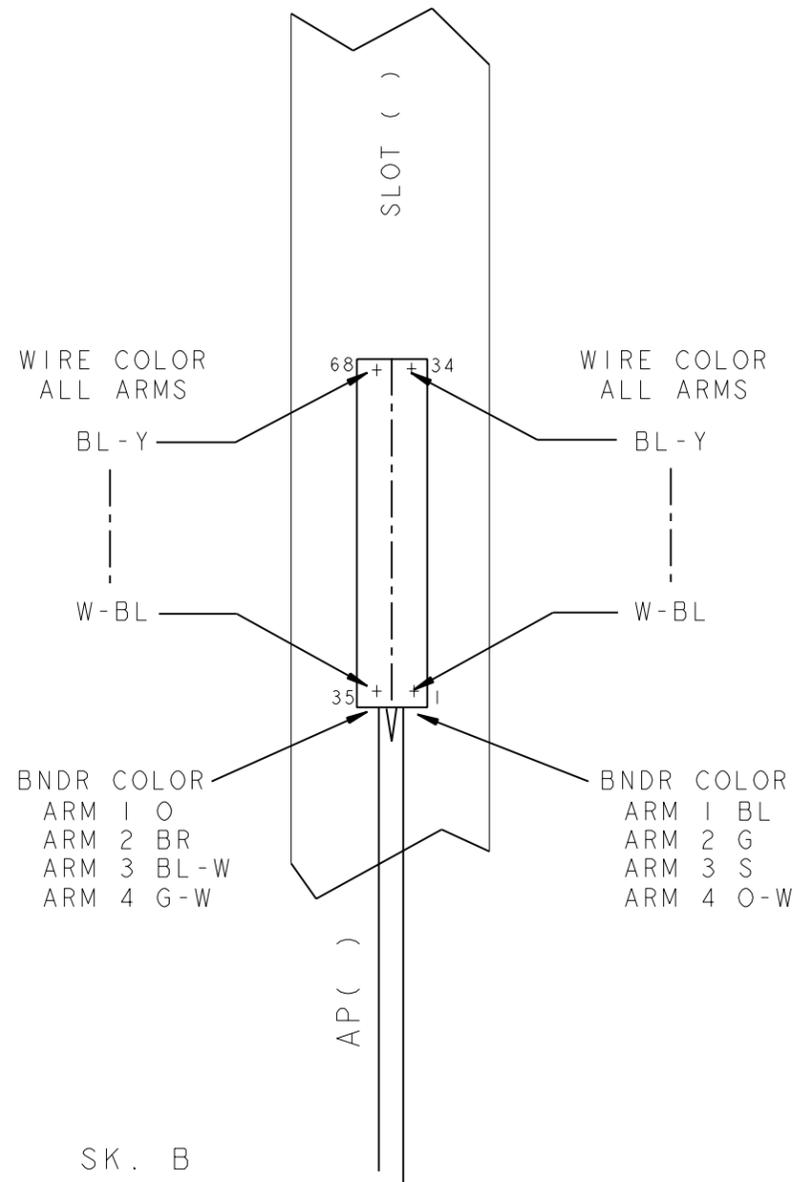


TYPICAL CABLE AS VIEWED FACING CONN
TERMINATION SEE SK. B

EQUIPMENT AISLE
OR
WIRING AISLE
ACCESS INTERFACE UNIT
TIP/RING APPLICATION PACKS

FIG. 5

TYPICAL

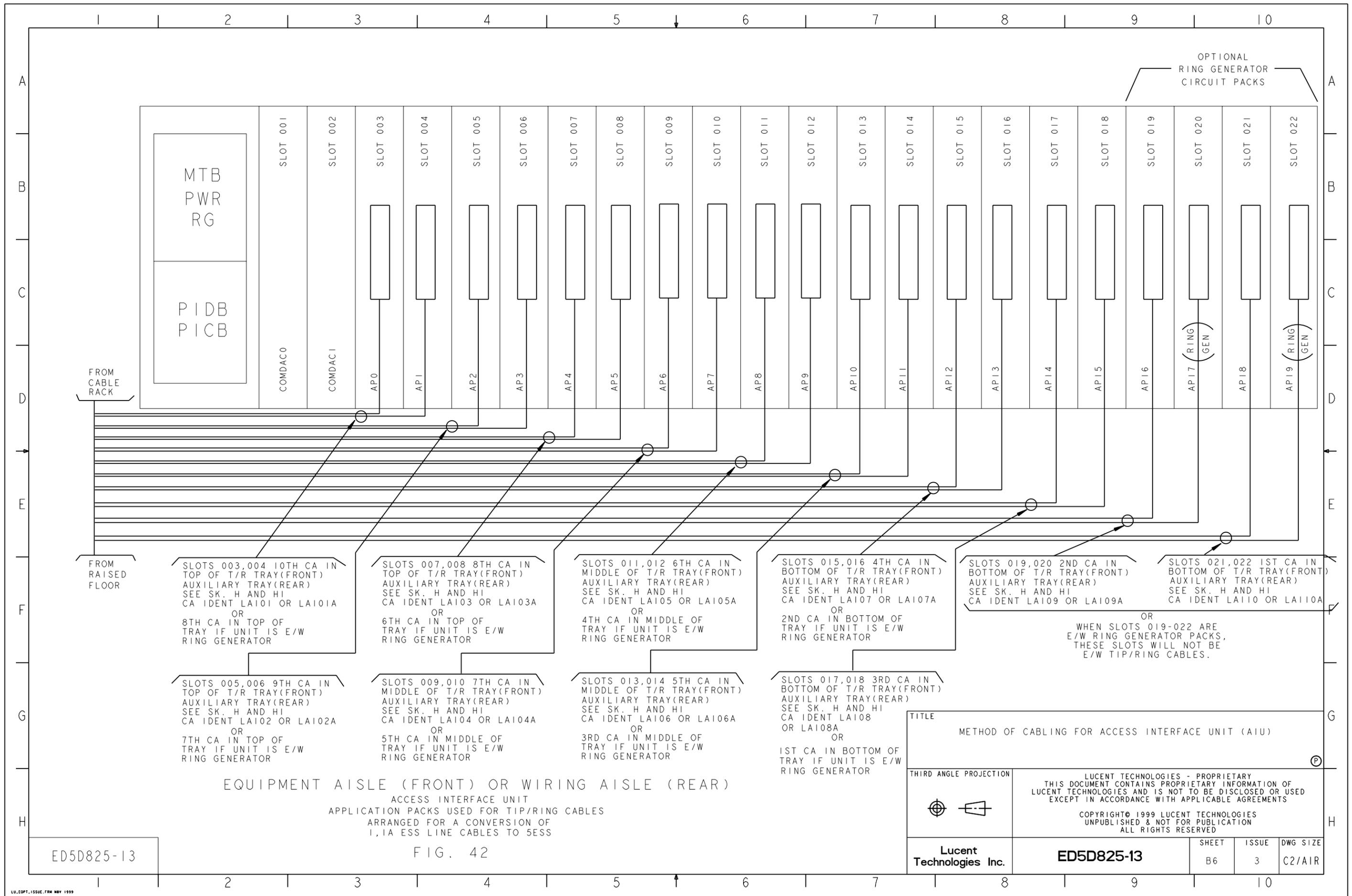


SK. B
BNDR AND WIRE COLORS

TITLE METHOD OF CABLING FOR ACCESS INTERFACE UNIT (AIU)			
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1 2 3 4 5 6 7 8 9 10



FROM RAISED FLOOR

SLOTS 003,004 10TH CA IN TOP OF T/R TRAY(FRONT) AUXILIARY TRAY(REAR) SEE SK. H AND HI CA IDENT LA101 OR LA101A

OR

8TH CA IN TOP OF TRAY IF UNIT IS E/W RING GENERATOR

SLOTS 007,008 8TH CA IN TOP OF T/R TRAY(FRONT) AUXILIARY TRAY(REAR) SEE SK. H AND HI CA IDENT LA103 OR LA103A

OR

6TH CA IN TOP OF TRAY IF UNIT IS E/W RING GENERATOR

SLOTS 011,012 6TH CA IN MIDDLE OF T/R TRAY(FRONT) AUXILIARY TRAY(REAR) SEE SK. H AND HI CA IDENT LA105 OR LA105A

OR

4TH CA IN MIDDLE OF TRAY IF UNIT IS E/W RING GENERATOR

SLOTS 015,016 4TH CA IN BOTTOM OF T/R TRAY(FRONT) AUXILIARY TRAY(REAR) SEE SK. H AND HI CA IDENT LA107 OR LA107A

OR

2ND CA IN BOTTOM OF TRAY IF UNIT IS E/W RING GENERATOR

SLOTS 019,020 2ND CA IN BOTTOM OF T/R TRAY(FRONT) AUXILIARY TRAY(REAR) SEE SK. H AND HI CA IDENT LA109 OR LA109A

SLOTS 021,022 1ST CA IN BOTTOM OF T/R TRAY(FRONT) AUXILIARY TRAY(REAR) SEE SK. H AND HI CA IDENT LA110 OR LA110A

OR

WHEN SLOTS 019-022 ARE E/W RING GENERATOR PACKS, THESE SLOTS WILL NOT BE E/W TIP/RING CABLES.

SLOTS 005,006 9TH CA IN TOP OF T/R TRAY(FRONT) AUXILIARY TRAY(REAR) SEE SK. H AND HI CA IDENT LA102 OR LA102A

OR

7TH CA IN TOP OF TRAY IF UNIT IS E/W RING GENERATOR

SLOTS 009,010 7TH CA IN MIDDLE OF T/R TRAY(FRONT) AUXILIARY TRAY(REAR) SEE SK. H AND HI CA IDENT LA104 OR LA104A

OR

5TH CA IN MIDDLE OF TRAY IF UNIT IS E/W RING GENERATOR

SLOTS 013,014 5TH CA IN MIDDLE OF T/R TRAY(FRONT) AUXILIARY TRAY(REAR) SEE SK. H AND HI CA IDENT LA106 OR LA106A

OR

3RD CA IN MIDDLE OF TRAY IF UNIT IS E/W RING GENERATOR

SLOTS 017,018 3RD CA IN BOTTOM OF T/R TRAY(FRONT) AUXILIARY TRAY(REAR) SEE SK. H AND HI CA IDENT LA108 OR LA108A

OR

1ST CA IN BOTTOM OF TRAY IF UNIT IS E/W RING GENERATOR

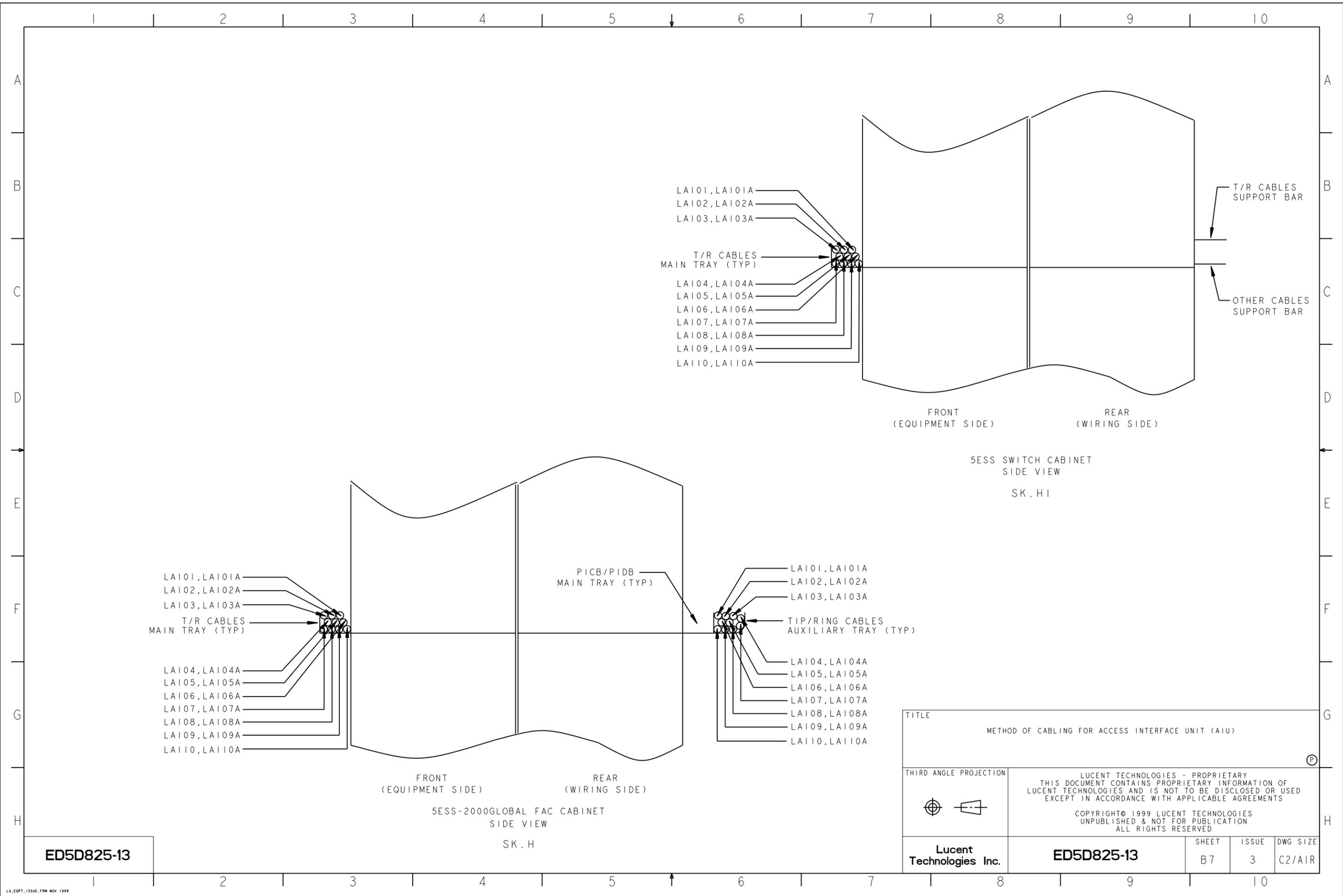
EQUIPMENT AISLE (FRONT) OR WIRING AISLE (REAR)

ACCESS INTERFACE UNIT
APPLICATION PACKS USED FOR TIP/RING CABLES
ARRANGED FOR A CONVERSION OF
1,1A ESS LINE CABLES TO 5ESS

FIG. 42

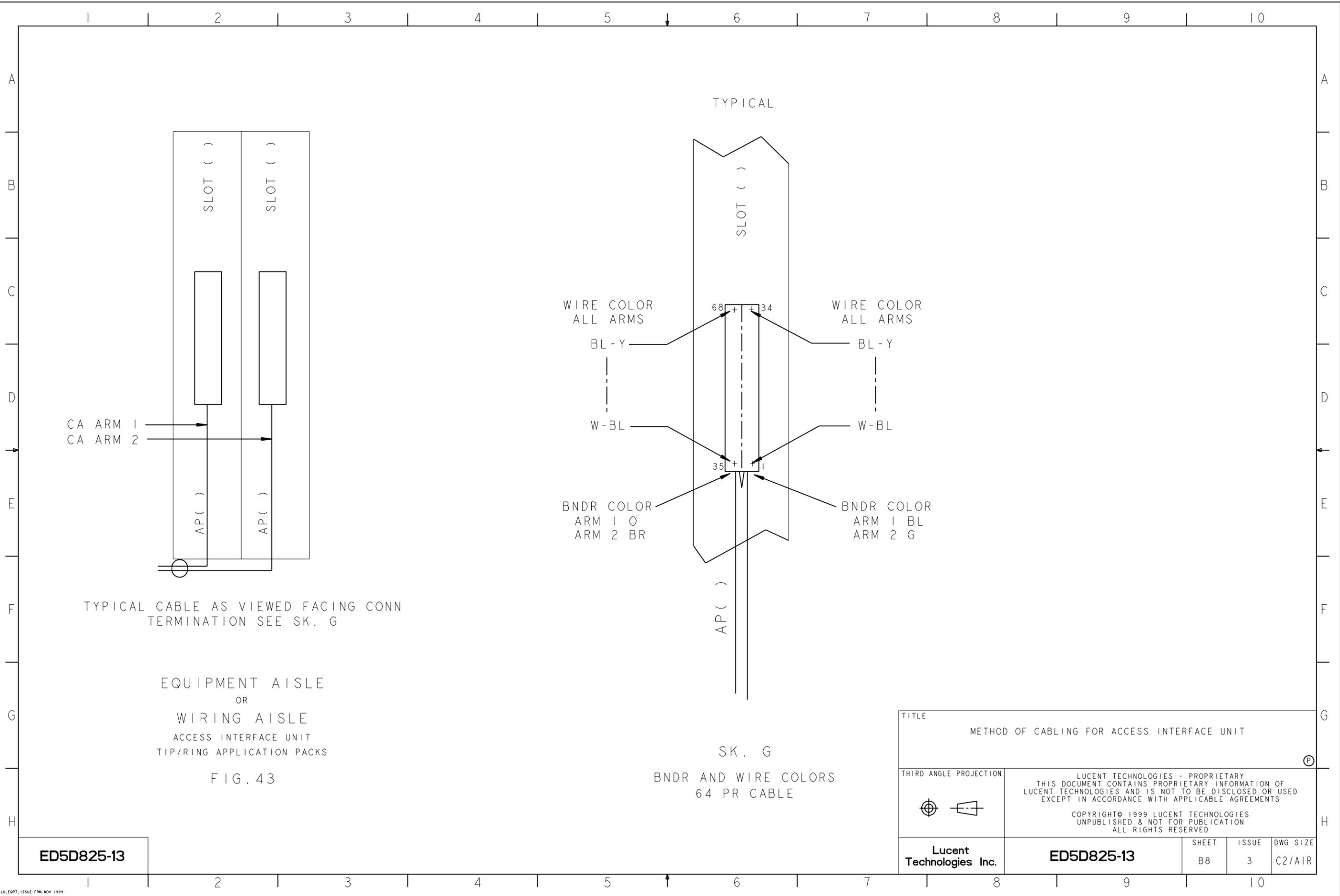
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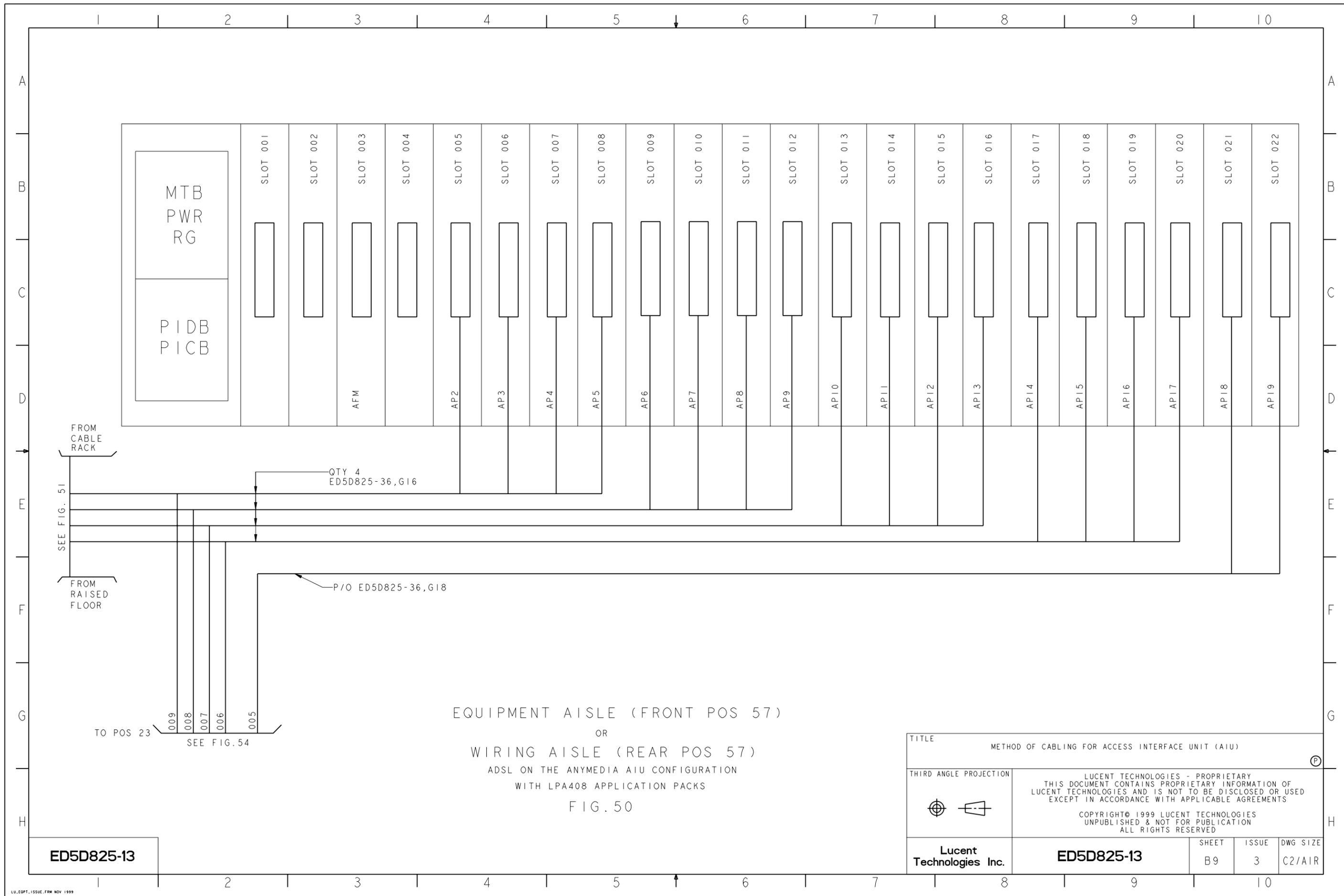
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		Lucent Technologies Inc.	ED5D825-13	SHEET B8	ISSUE 3	DWG SIZE C2/A1R

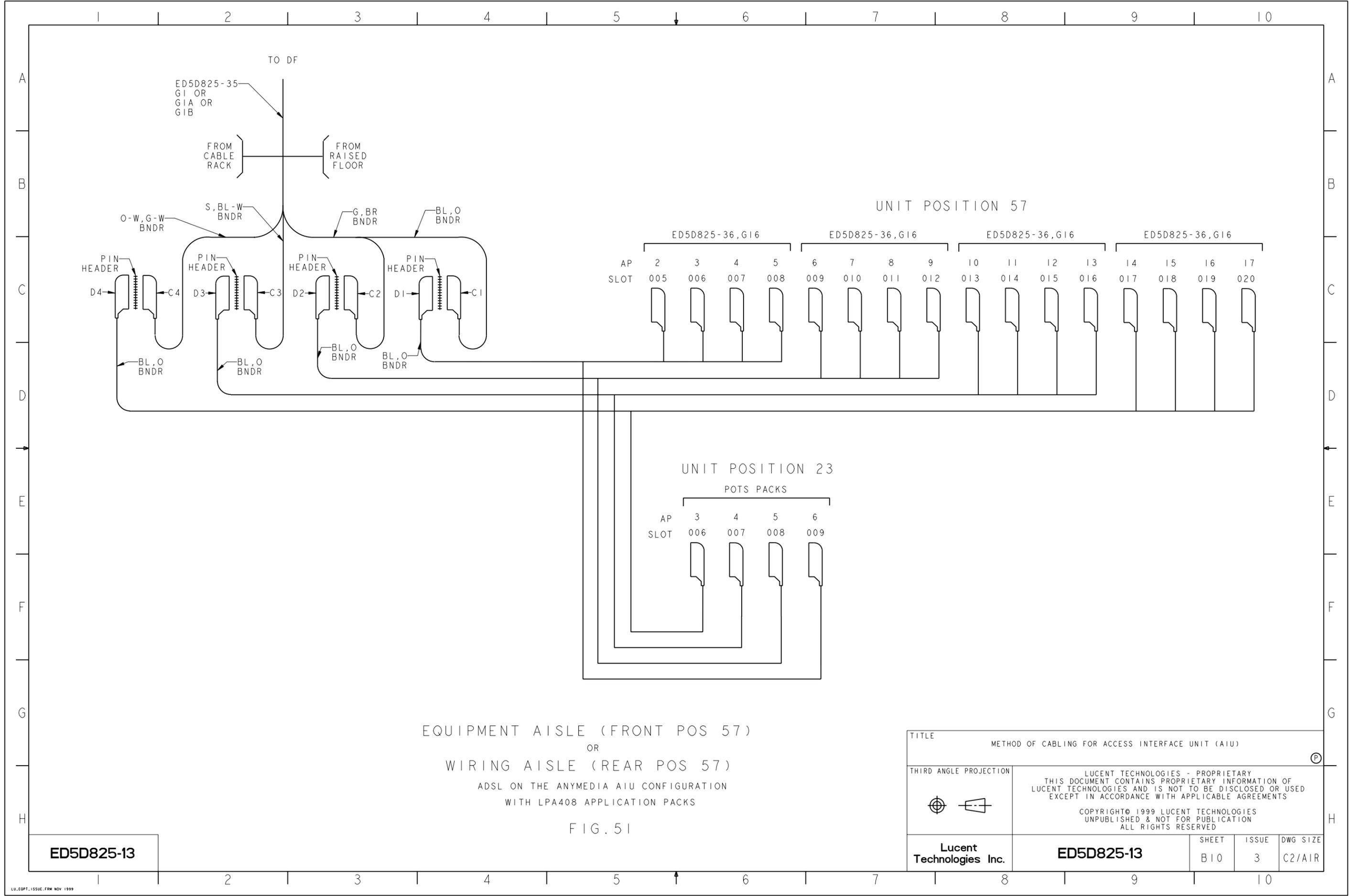
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EQUIPMENT AISLE (FRONT POS 57)
OR
WIRING AISLE (REAR POS 57)
ADSL ON THE ANYMEDIA AIU CONFIGURATION
WITH LPA408 APPLICATION PACKS
FIG. 50

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METHOD OF CABLING FOR ACCESS INTERFACE UNIT (AIU)			
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		SHEET	ISSUE
		B9	3
Lucent Technologies Inc.		ED5D825-13	
		DWG SIZE	
		C2/AIR	

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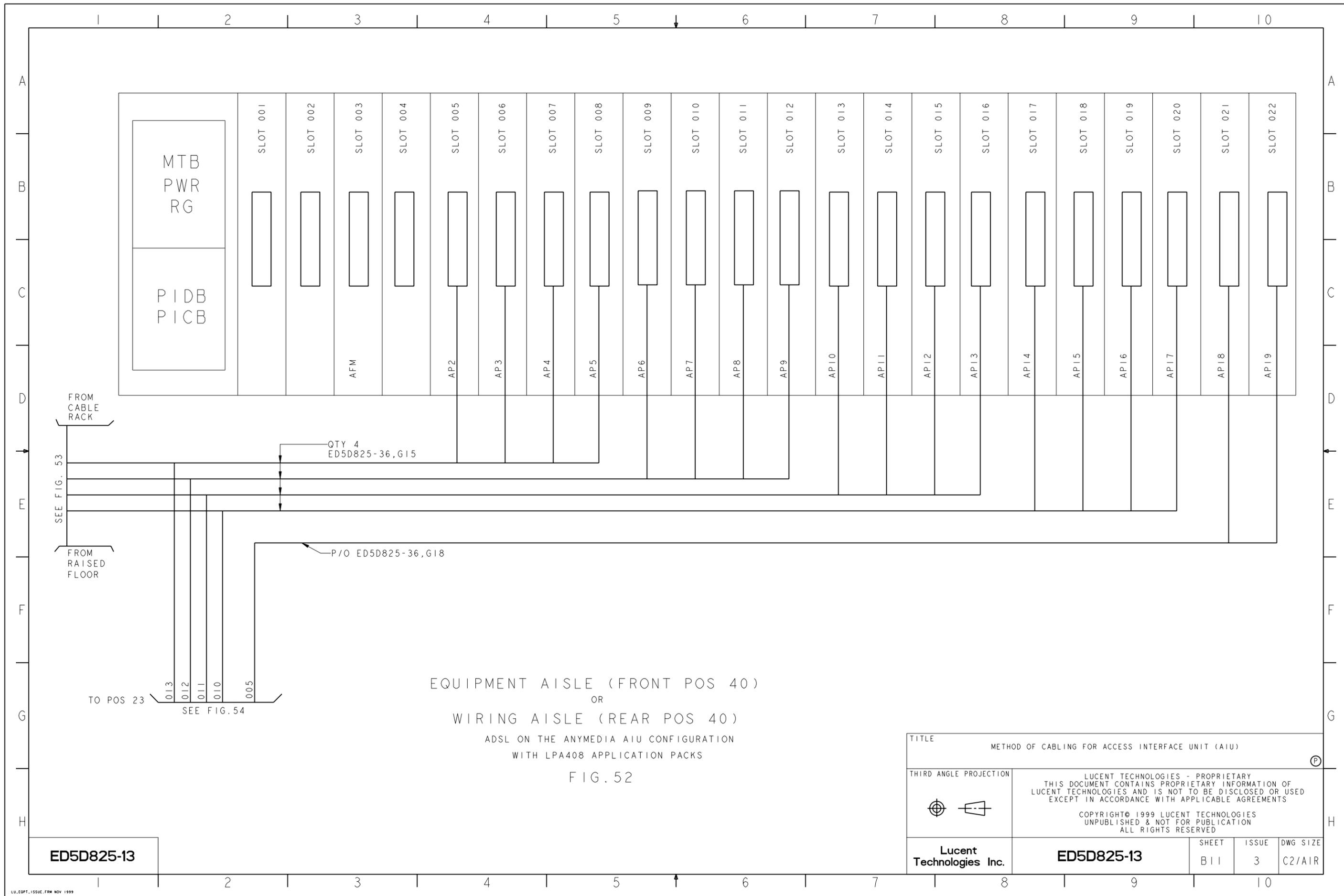


EQUIPMENT AISLE (FRONT POS 57)
 OR
 WIRING AISLE (REAR POS 57)
 ADSL ON THE ANYMEDIA AIU CONFIGURATION
 WITH LPA408 APPLICATION PACKS

FIG. 51

TITLE				
METHOD OF CABLING FOR ACCESS INTERFACE UNIT (AIU)				
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Lucent Technologies Inc.	ED5D825-13	SHEET	ISSUE	DWG SIZE
		B10	3	C2/AIR

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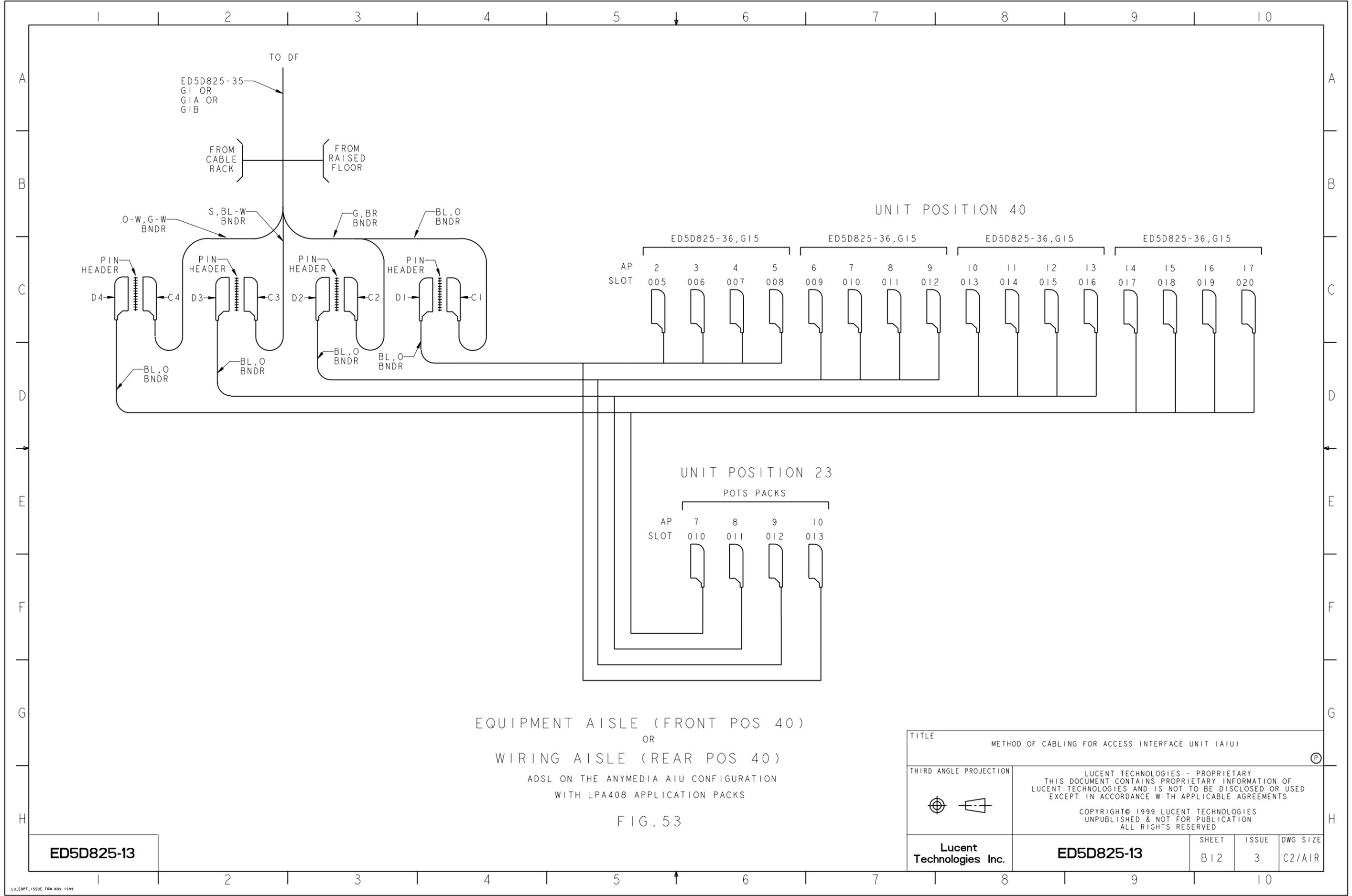


EQUIPMENT AISLE (FRONT POS 40)
OR
WIRING AISLE (REAR POS 40)
ADSL ON THE ANYMEDIA AIU CONFIGURATION
WITH LPA408 APPLICATION PACKS

FIG. 52

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Lucent Technologies Inc.	ED5D825-13	SHEET B 11	ISSUE 3	DWG SIZE C2/AIR

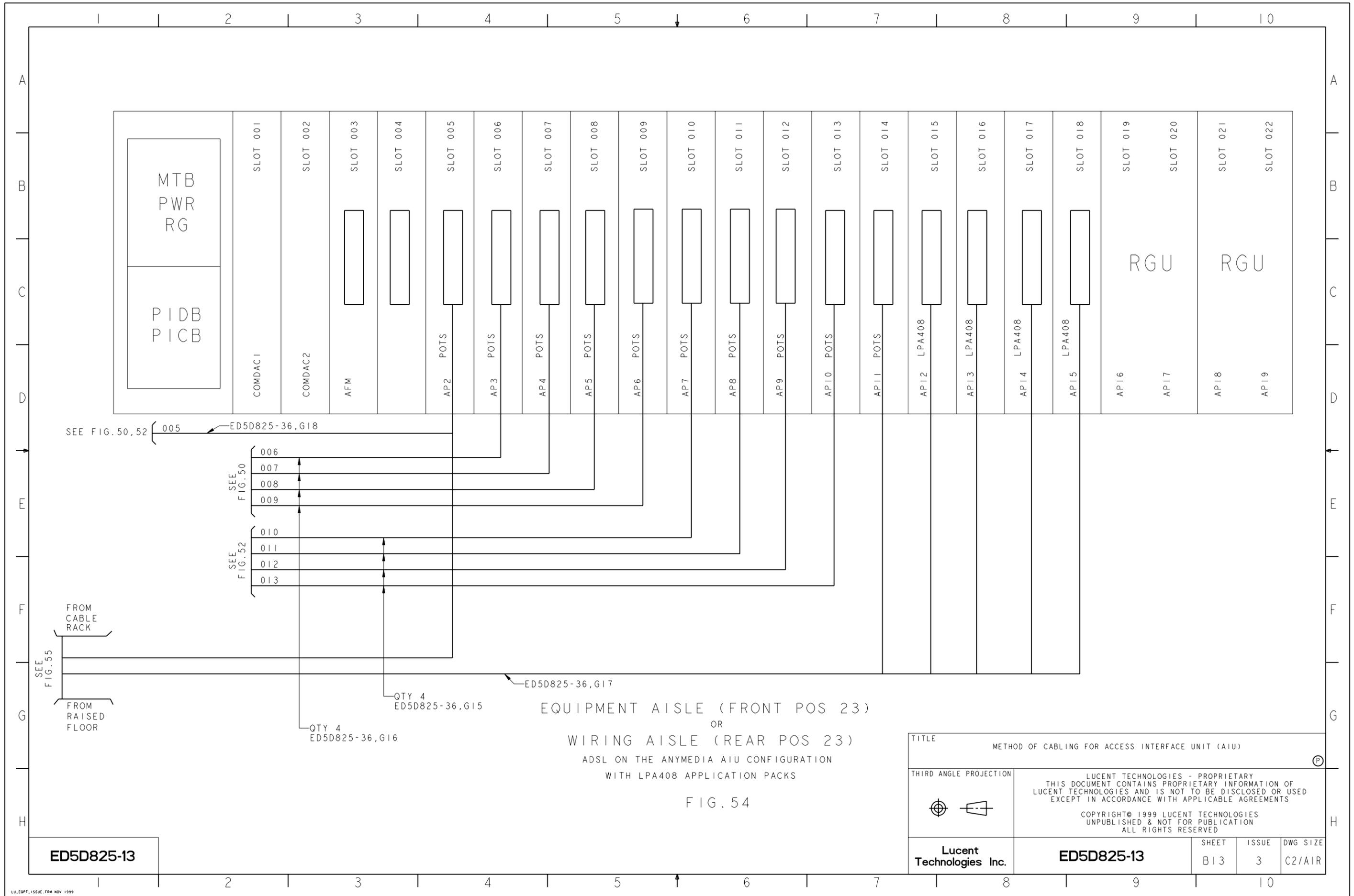


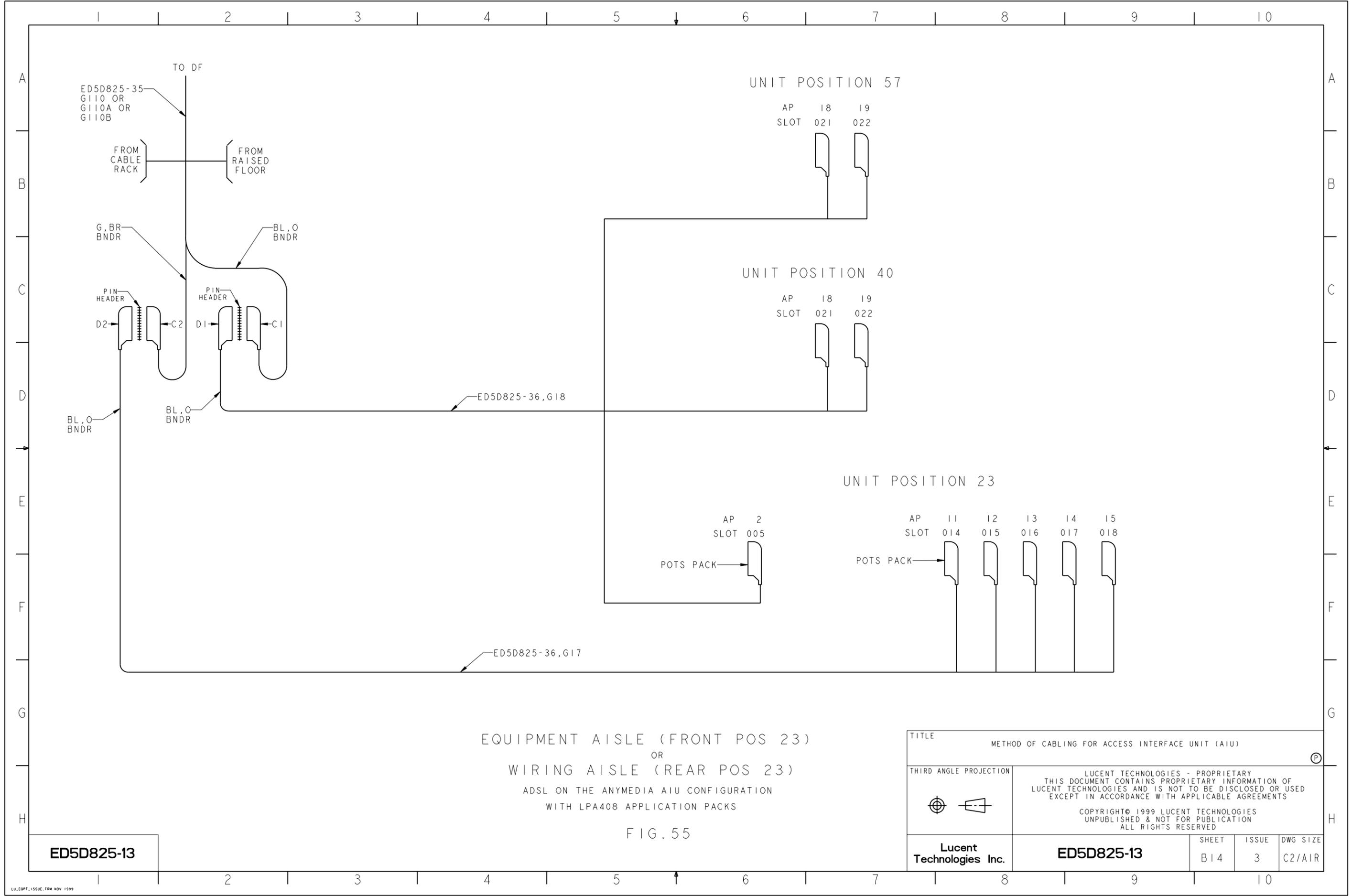
EQUIPMENT AISLE (FRONT POS 40)
OR
WIRING AISLE (REAR POS 40)
ADSL ON THE ANYMEDIA AIU CONFIGURATION
WITH LPA408 APPLICATION PACKS

FIG. 53

TITLE								
METHOD OF CABLING FOR ACCESS INTERFACE UNIT (AIU)								
(P)								
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		Lucent Technologies Inc.	ED5D825-13	<table border="1"> <tr> <td>SHEET</td> <td>ISSUE</td> <td>DWG SIZE</td> </tr> <tr> <td>B12</td> <td>3</td> <td>C2/AIR</td> </tr> </table>	SHEET	ISSUE	DWG SIZE	B12
SHEET	ISSUE	DWG SIZE						
B12	3	C2/AIR						

ED5D825-13



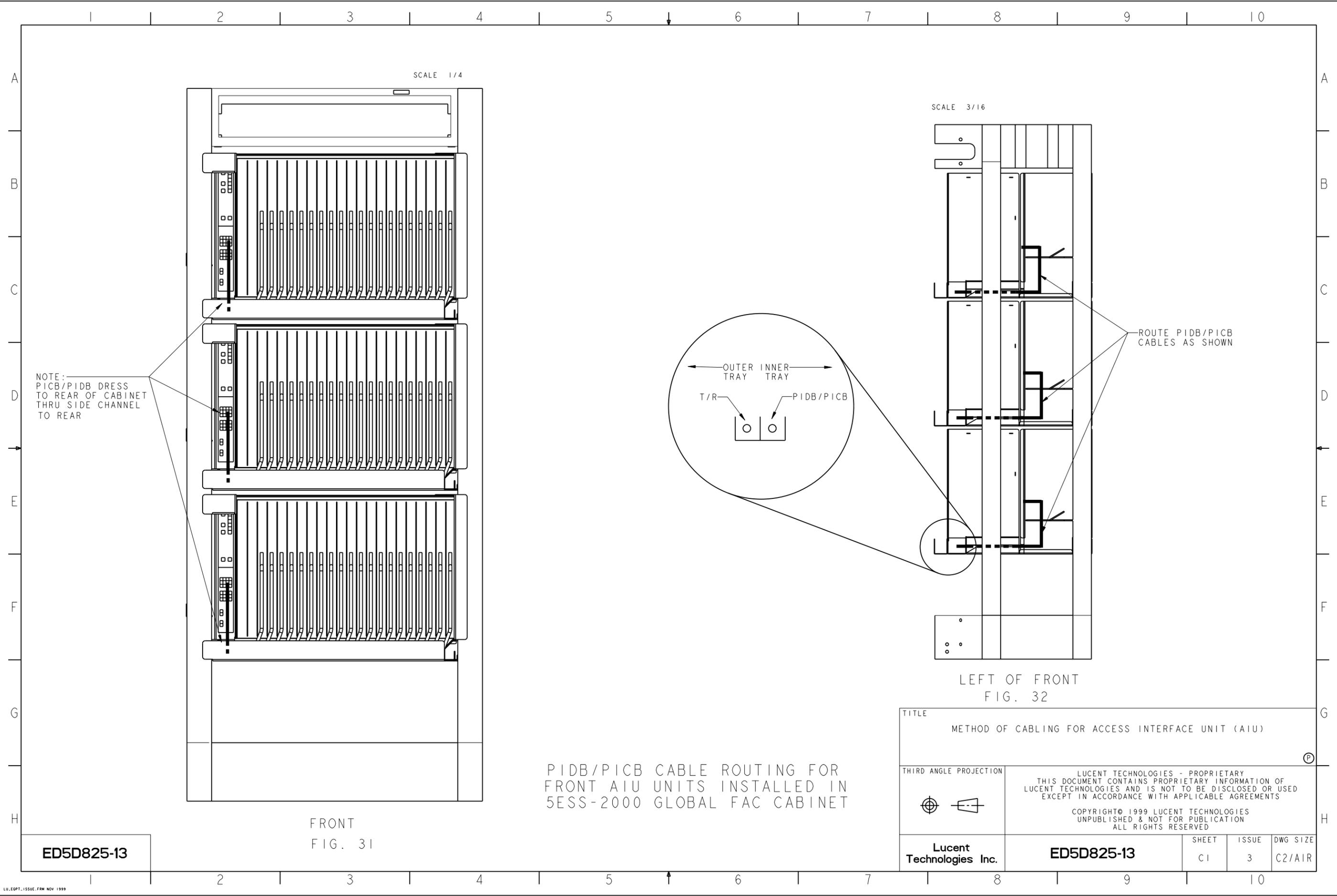


EQUIPMENT AISLE (FRONT POS 23)
OR
WIRING AISLE (REAR POS 23)
ADSL ON THE ANYMEDIA AIU CONFIGURATION
WITH LPA408 APPLICATION PACKS

FIG. 55

TITLE		METHOD OF CABLING FOR ACCESS INTERFACE UNIT (AIU)		
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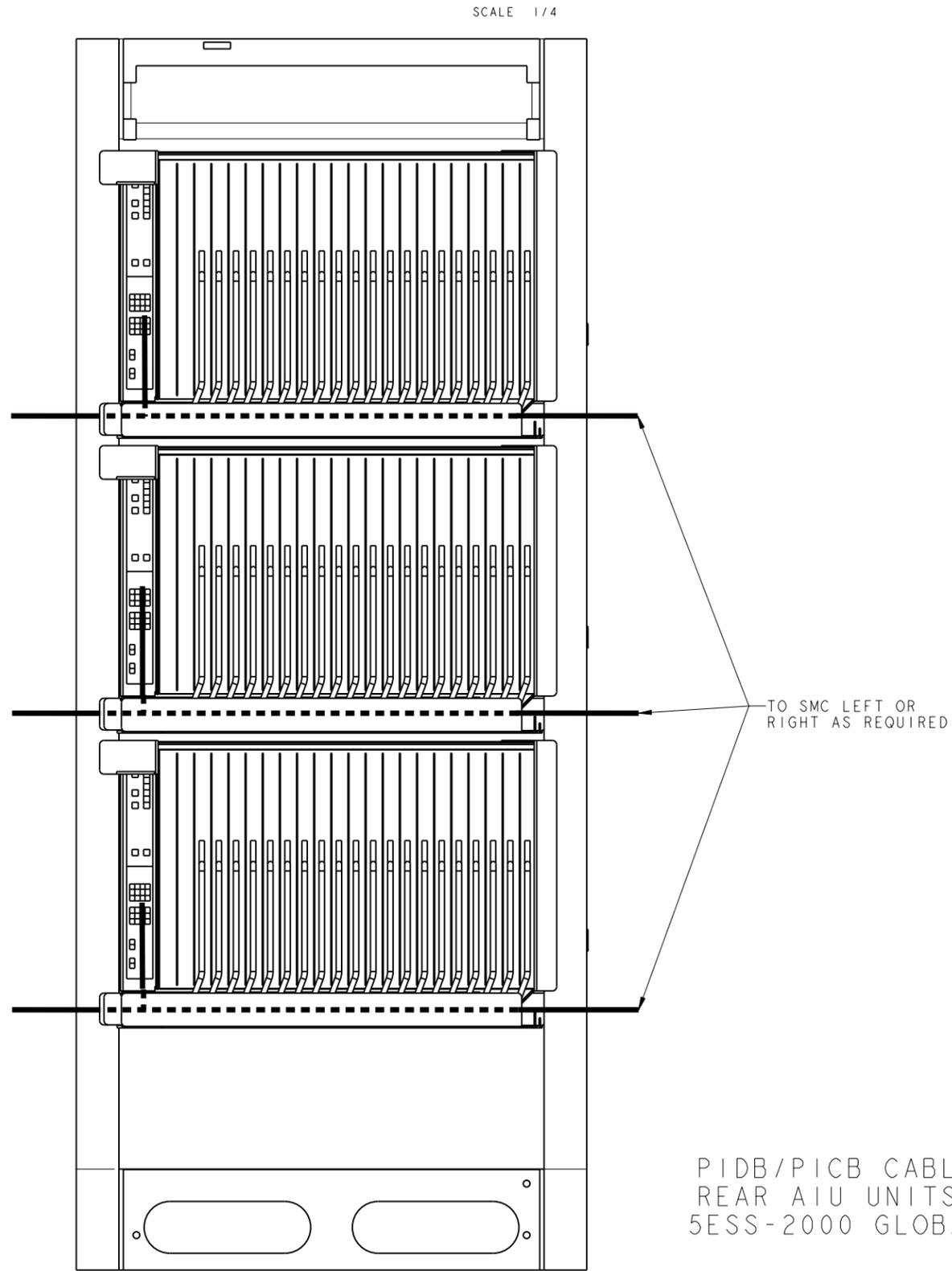


ED5D825-13

FRONT
FIG. 31

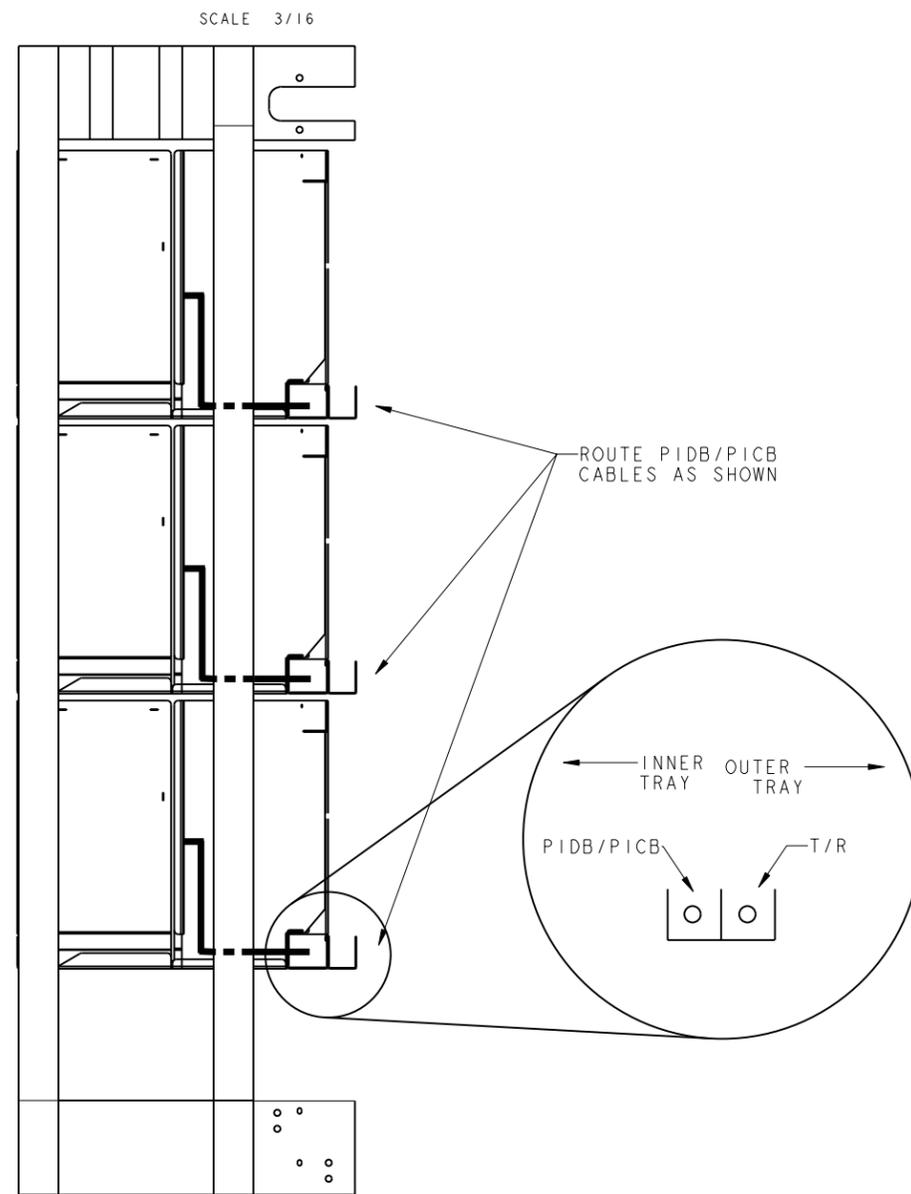
PIDB/PICB CABLE ROUTING FOR
FRONT AIU UNITS INSTALLED IN
5ESS-2000 GLOBAL FAC CABINET

TITLE				
METHOD OF CABLING FOR ACCESS INTERFACE UNIT (AIU)				
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		SHEET C1		
Lucent Technologies Inc.		ED5D825-13		ISSUE 3
		DWG SIZE C2/AIR		



REAR
FIG. 33

PIDB/PICB CABLE ROUTING FOR
REAR AIU UNITS INSTALLED IN
5ESS-2000 GLOBAL FAC CABINET



LEFT OF REAR
FIG. 34

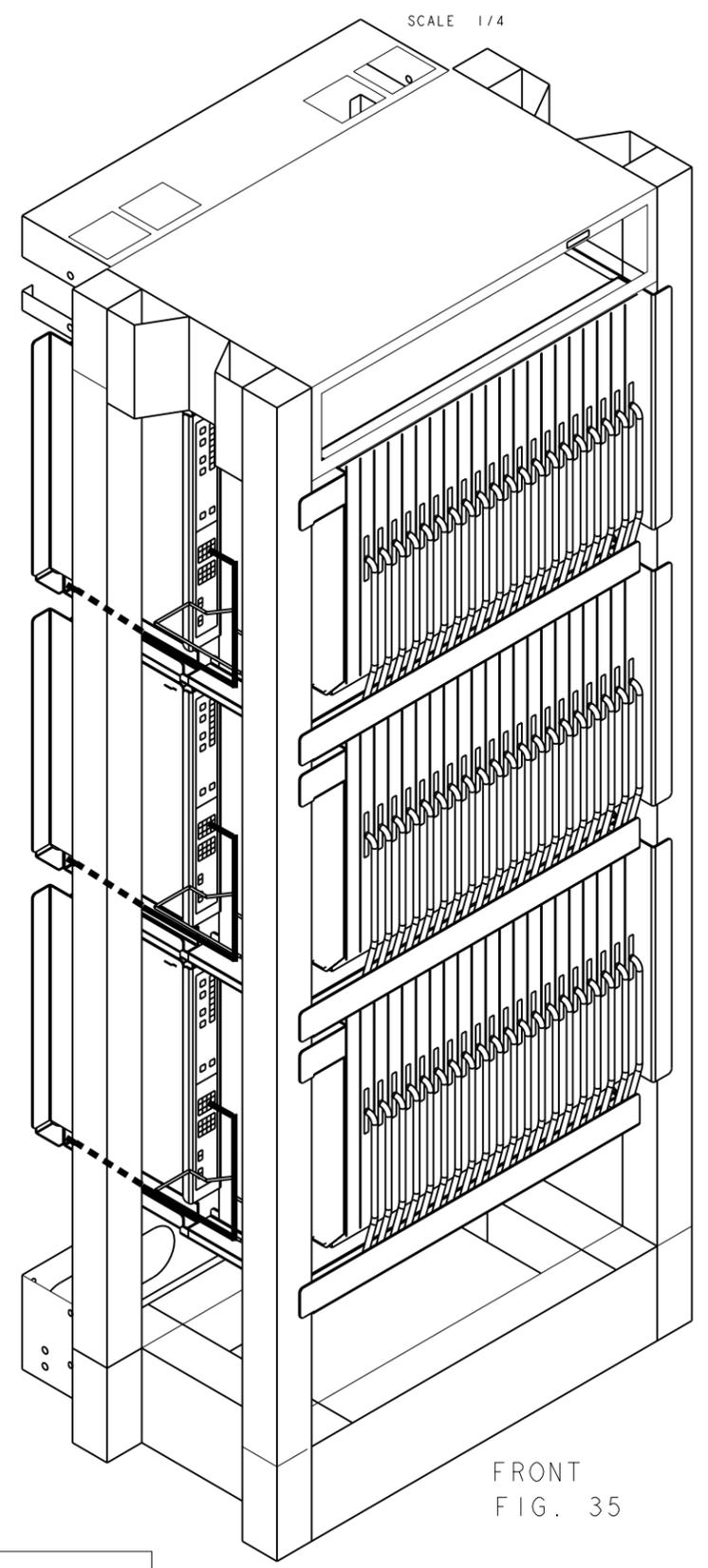
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			DWG SIZE C2/AIR	

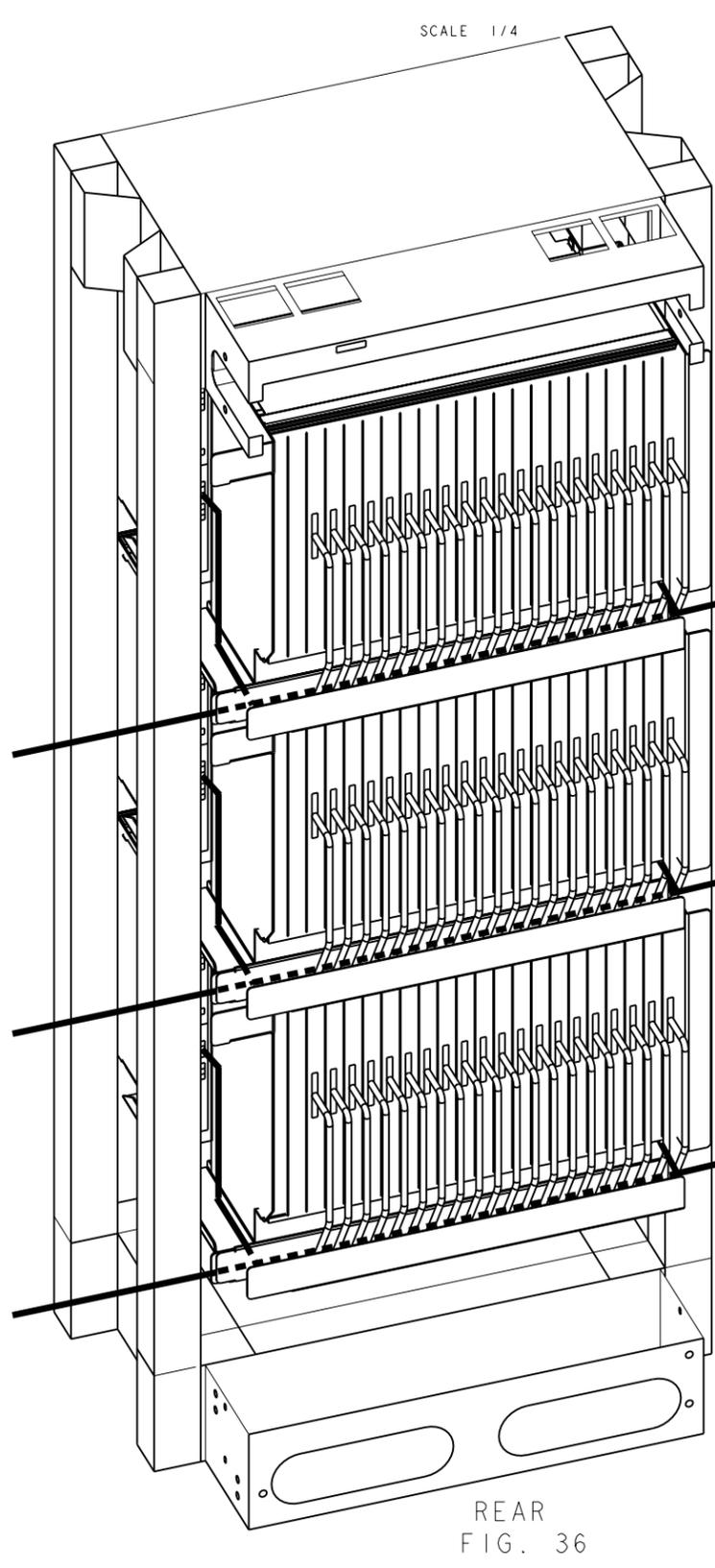
1 2 3 4 5 6 7 8 9 10

A
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A
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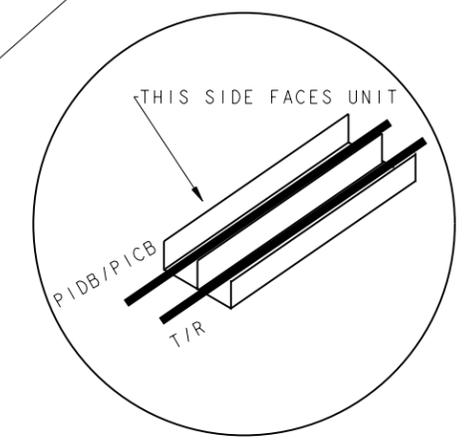


FRONT
FIG. 35



REAR
FIG. 36

ROUTE PICB/PIDB & T/R CABLES
IN RESPECTIVE CABLE TRAYS
FOR ALL REAR UNITS



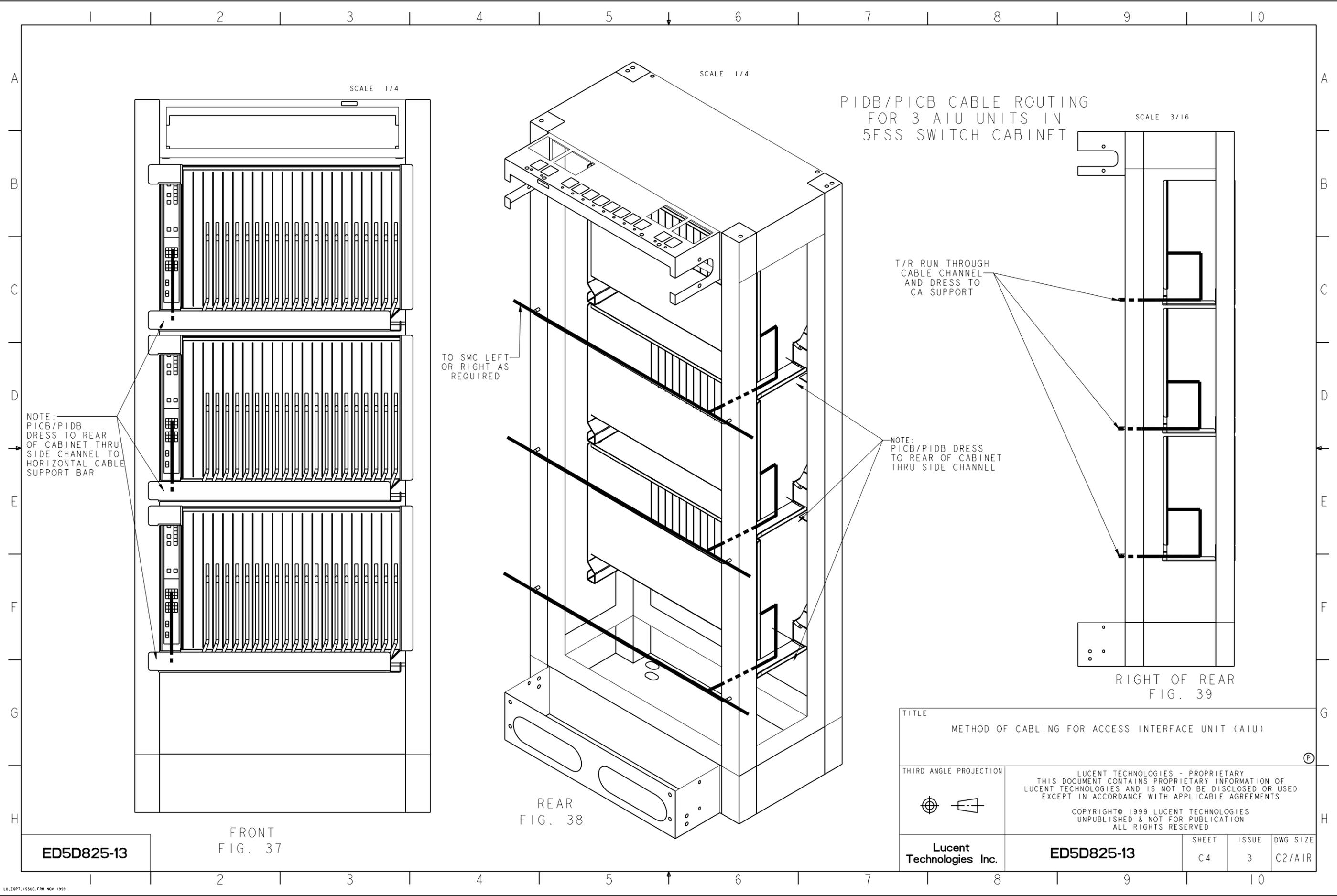
TO SMC LEFT OR
RIGHT AS REQUIRED

PIDB/PICB CABLE ROUTING FOR
SIX AIU UNITS INSTALLED IN
5ESS-2000 GLOBAL FAC CABINET

TITLE				
METHOD OF CABLING FOR ACCESS INTERFACE UNIT (AIU)				
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ED5D825-13				

ED5D825-13

1 2 3 4 5 6 7 8 9 10



ED5D825-13

FRONT
FIG. 37

REAR
FIG. 38

RIGHT OF REAR
FIG. 39

TITLE				
METHOD OF CABLING FOR ACCESS INTERFACE UNIT (AIU)				
THIRD ANGLE PROJECTION		<p>Lucent Technologies Inc.</p> <p>ED5D825-13</p> <p>SHEET C4</p> <p>ISSUE 3</p> <p>DWG SIZE C2/AIR</p>		
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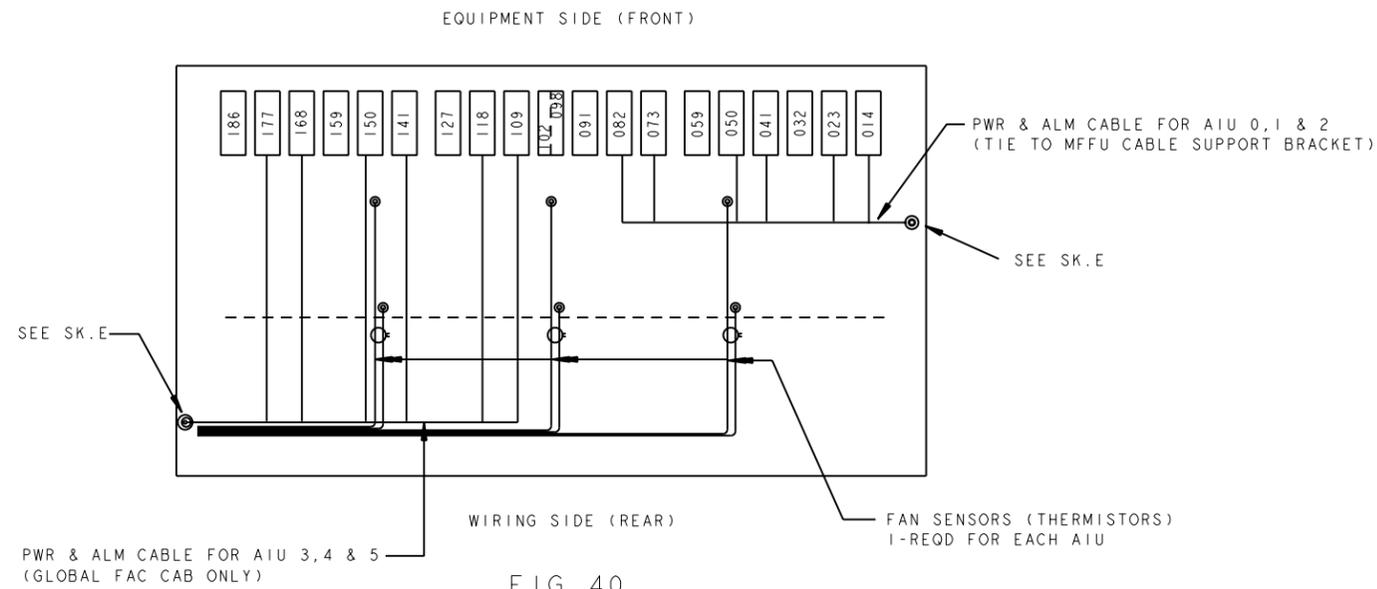
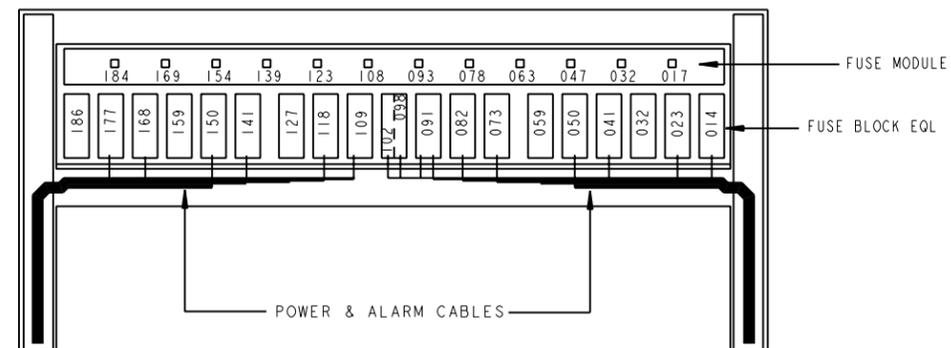
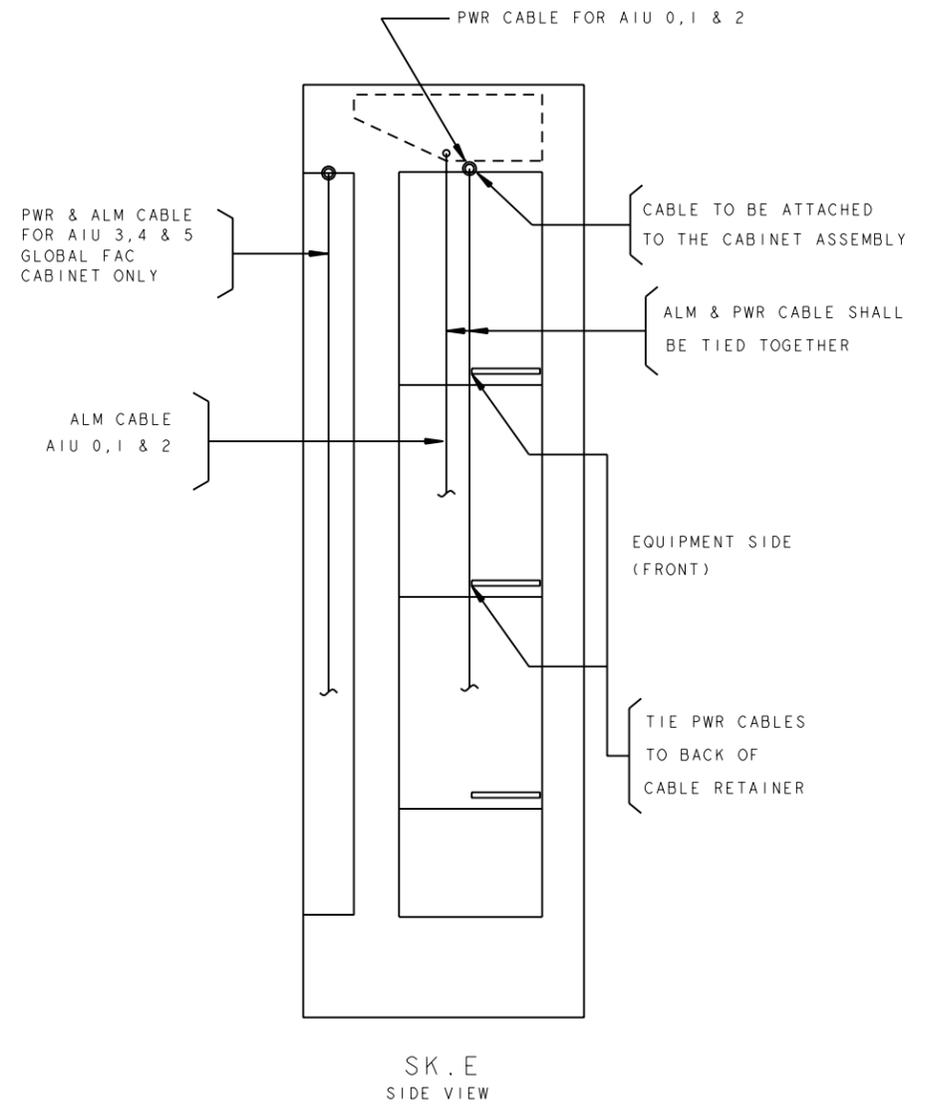


FIG. 40
TOP VIEW
POWER CABLE ROUTING FOR
GLOBAL FAC/SWITCH CABINET



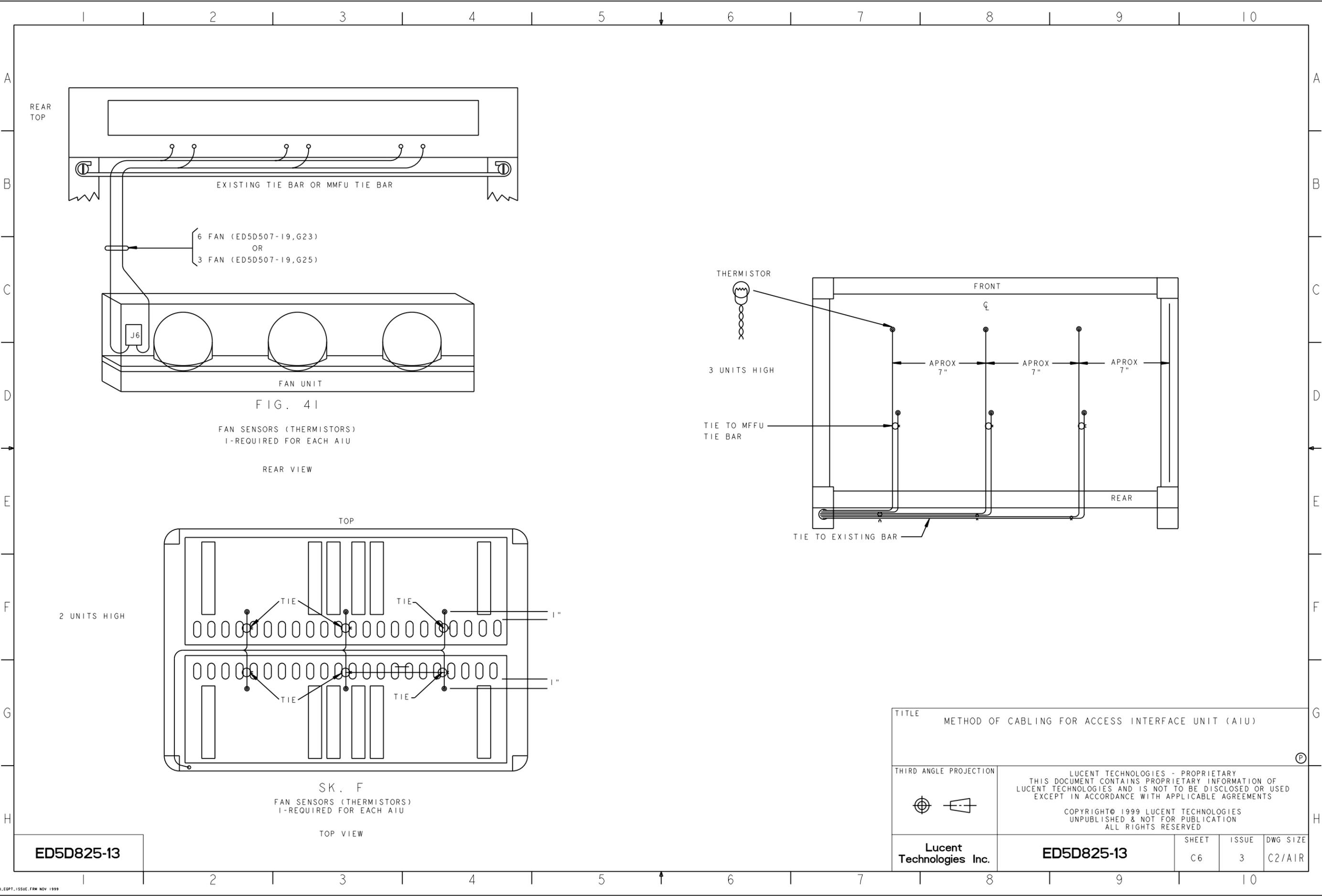
SK.D
REAR VIEW

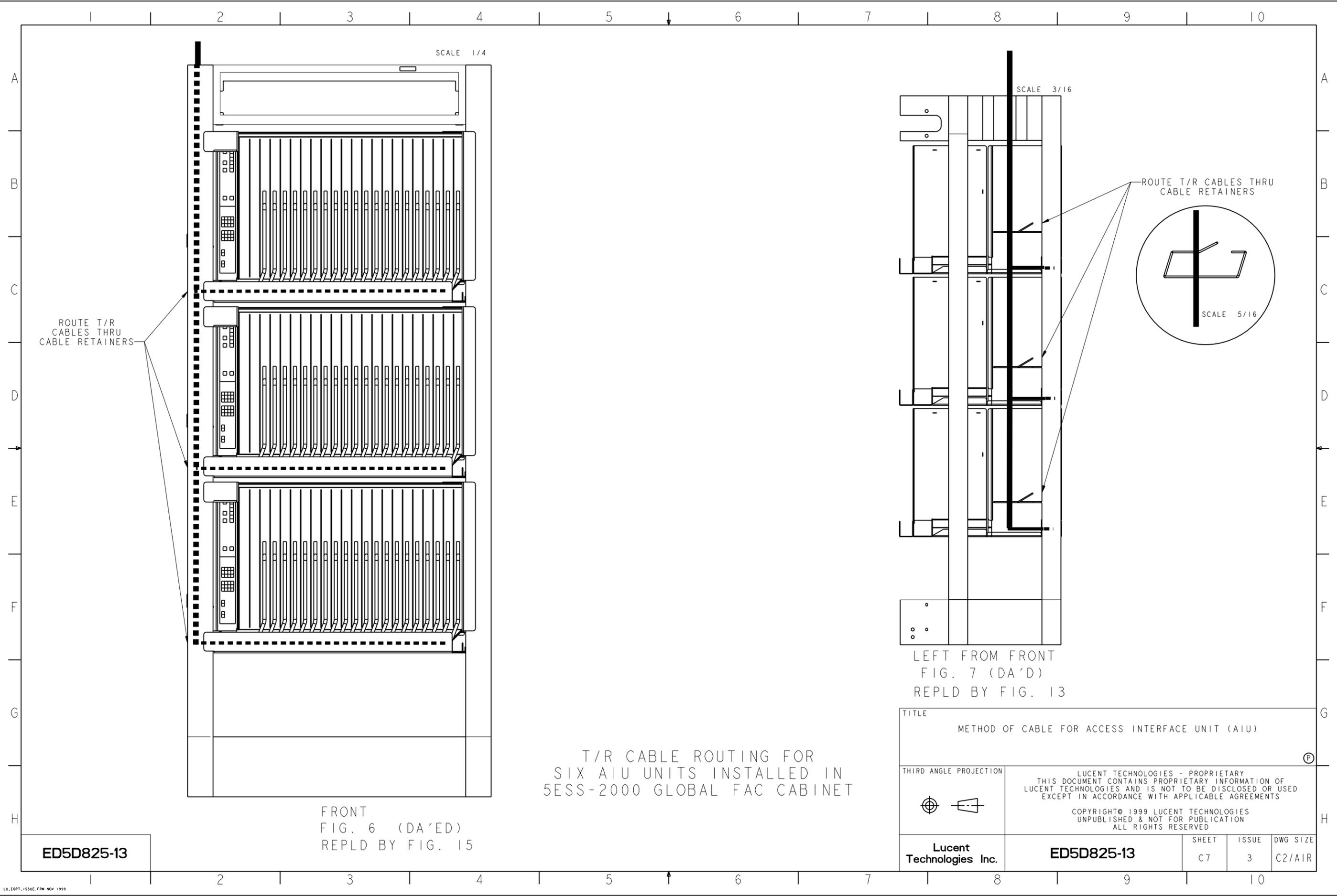


SK.E
SIDE VIEW

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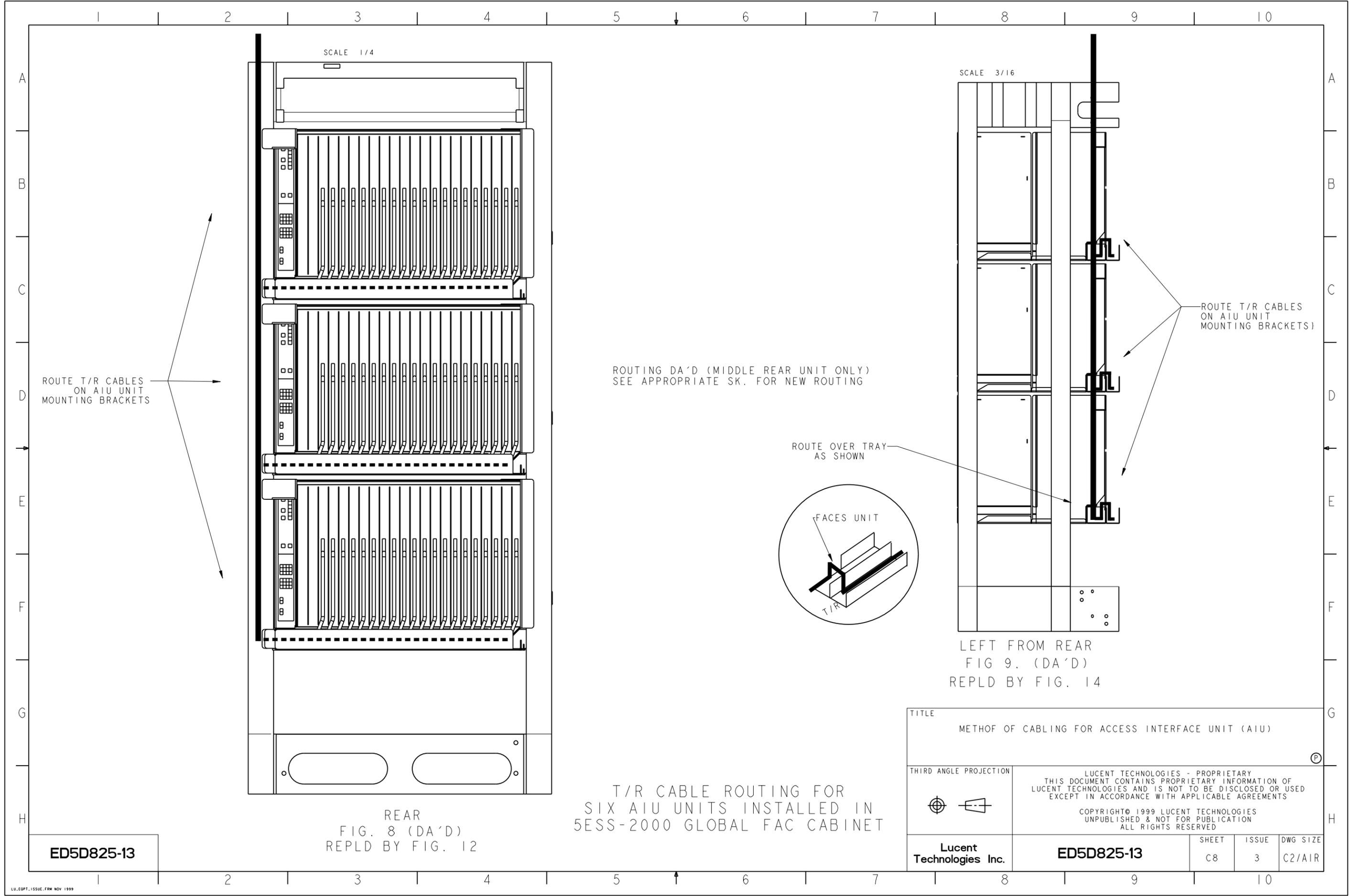
T/R CABLE ROUTING FOR
SIX AIU UNITS INSTALLED IN
5ESS-2000 GLOBAL FAC CABINET

FRONT
FIG. 6 (DA'ED)
REPLD BY FIG. 15

LEFT FROM FRONT
FIG. 7 (DA'D)
REPLD BY FIG. 13

TITLE				
METHOD OF CABLE FOR ACCESS INTERFACE UNIT (AIU)				
(P)				
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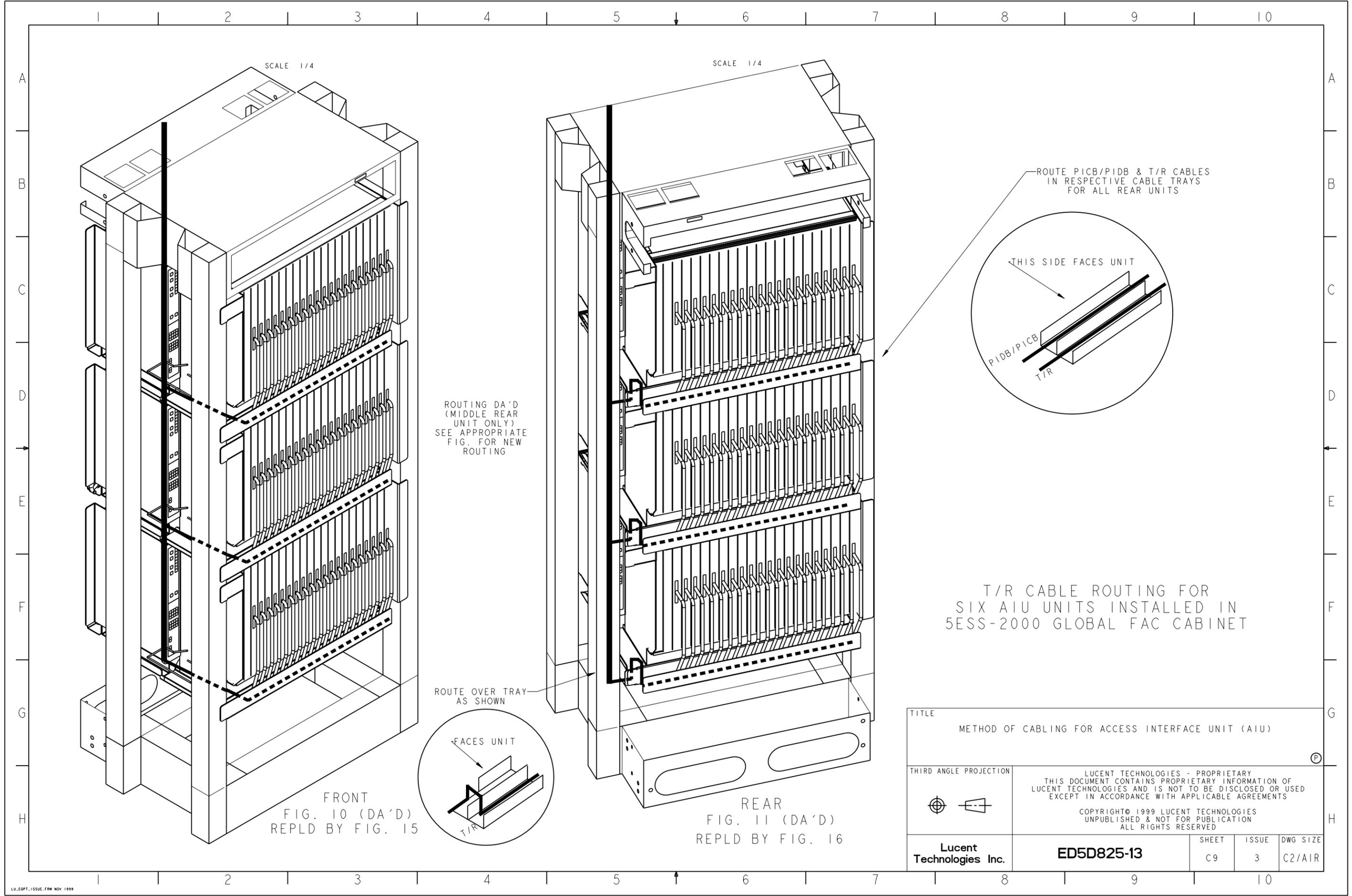


ED5D825-13

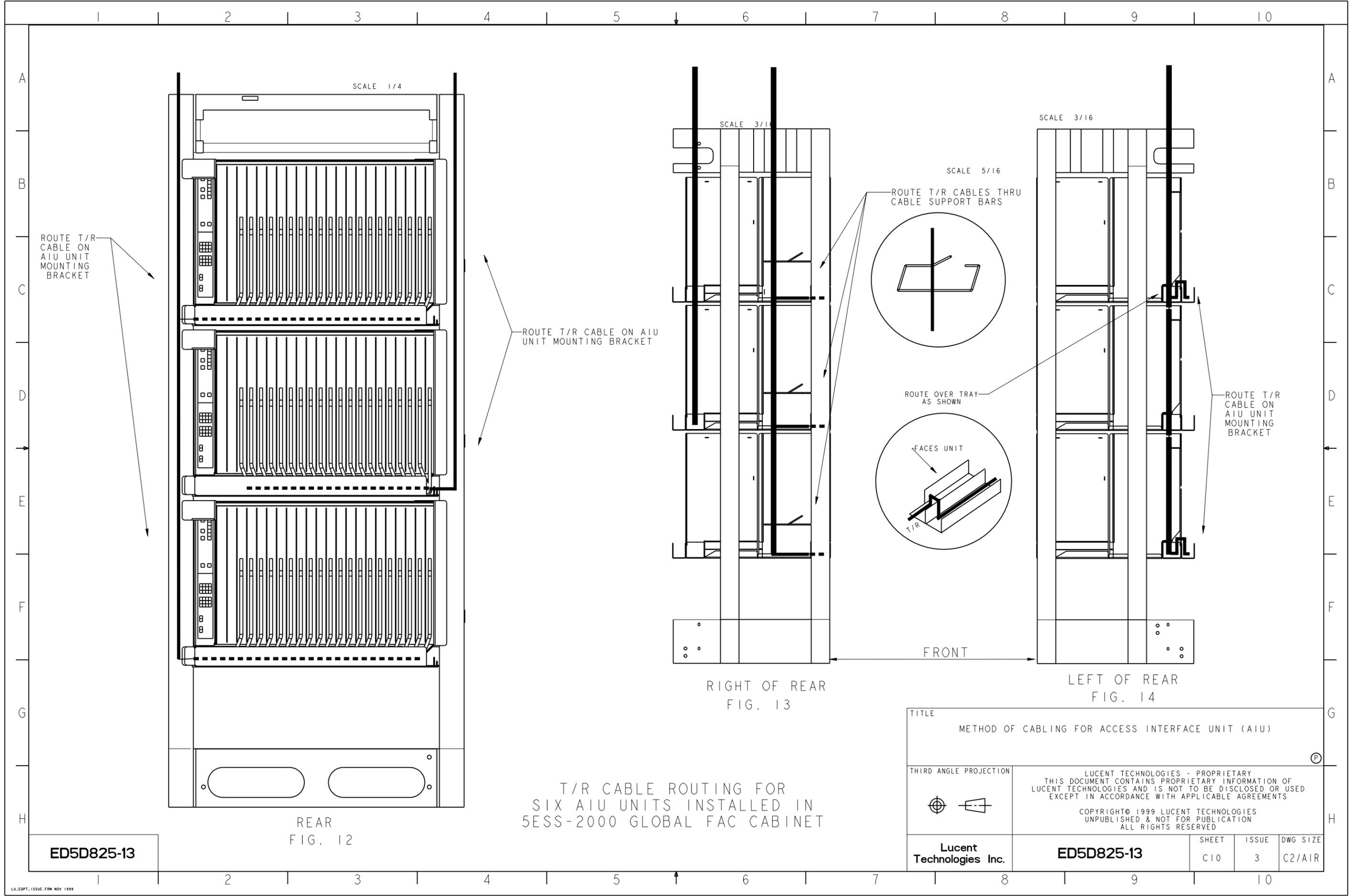
REAR
FIG. 8 (DA'D)
REPLD BY FIG. 12

T/R CABLE ROUTING FOR
SIX AIU UNITS INSTALLED IN
5ESS-2000 GLOBAL FAC CABINET

TITLE				
METHOD OF CABLING FOR ACCESS INTERFACE UNIT (AIU)				
(P)				
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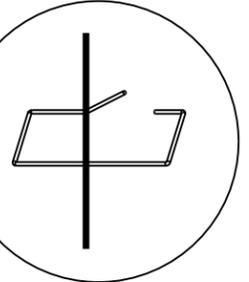
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METHOD OF CABLING FOR ACCESS INTERFACE UNIT (AIU)				
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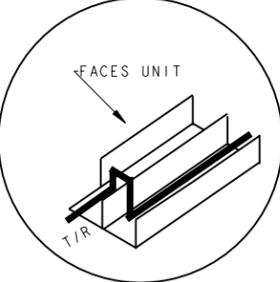
ROUTE T/R CABLE ON AIU UNIT MOUNTING BRACKET

ROUTE T/R CABLE ON AIU UNIT MOUNTING BRACKET

ROUTE T/R CABLES THRU CABLE SUPPORT BARS



ROUTE OVER TRAY AS SHOWN



ROUTE T/R CABLE ON AIU UNIT MOUNTING BRACKET

RIGHT OF REAR
FIG. 13

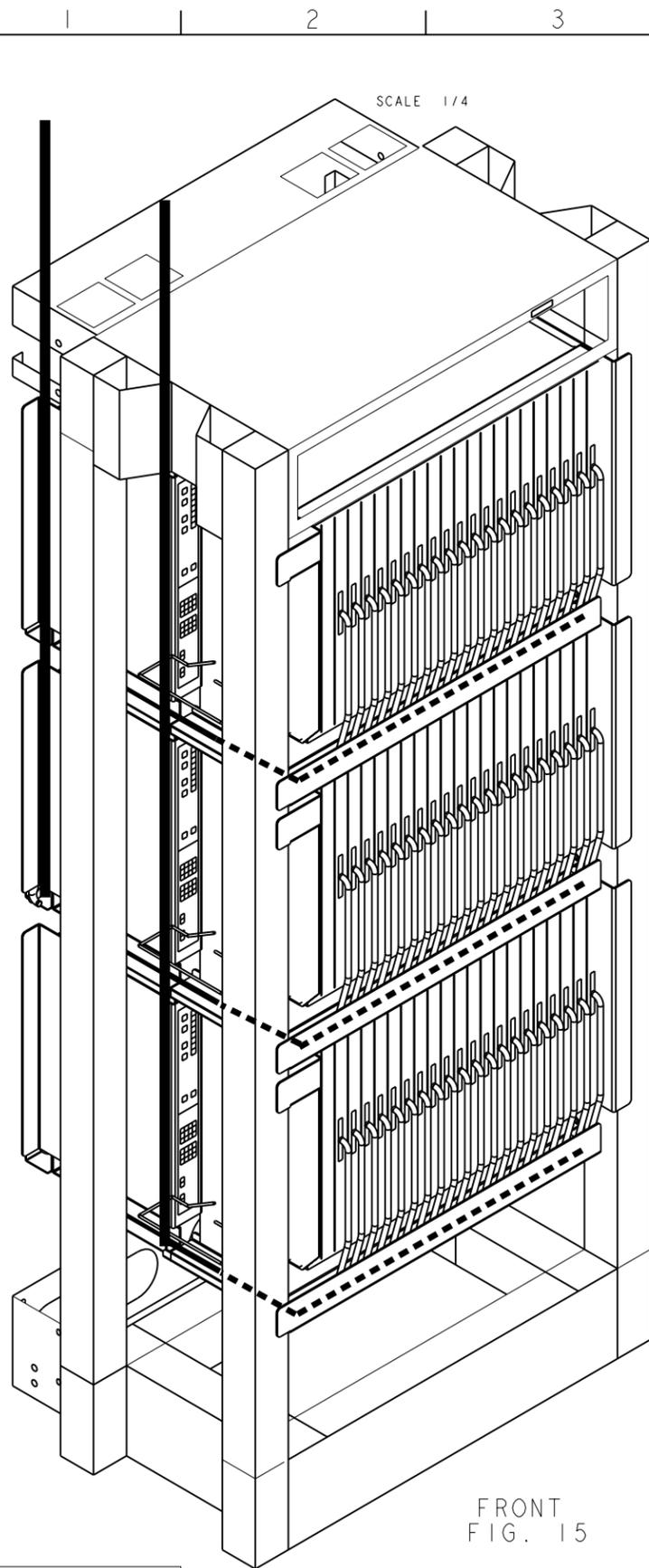
LEFT OF REAR
FIG. 14

REAR
FIG. 12

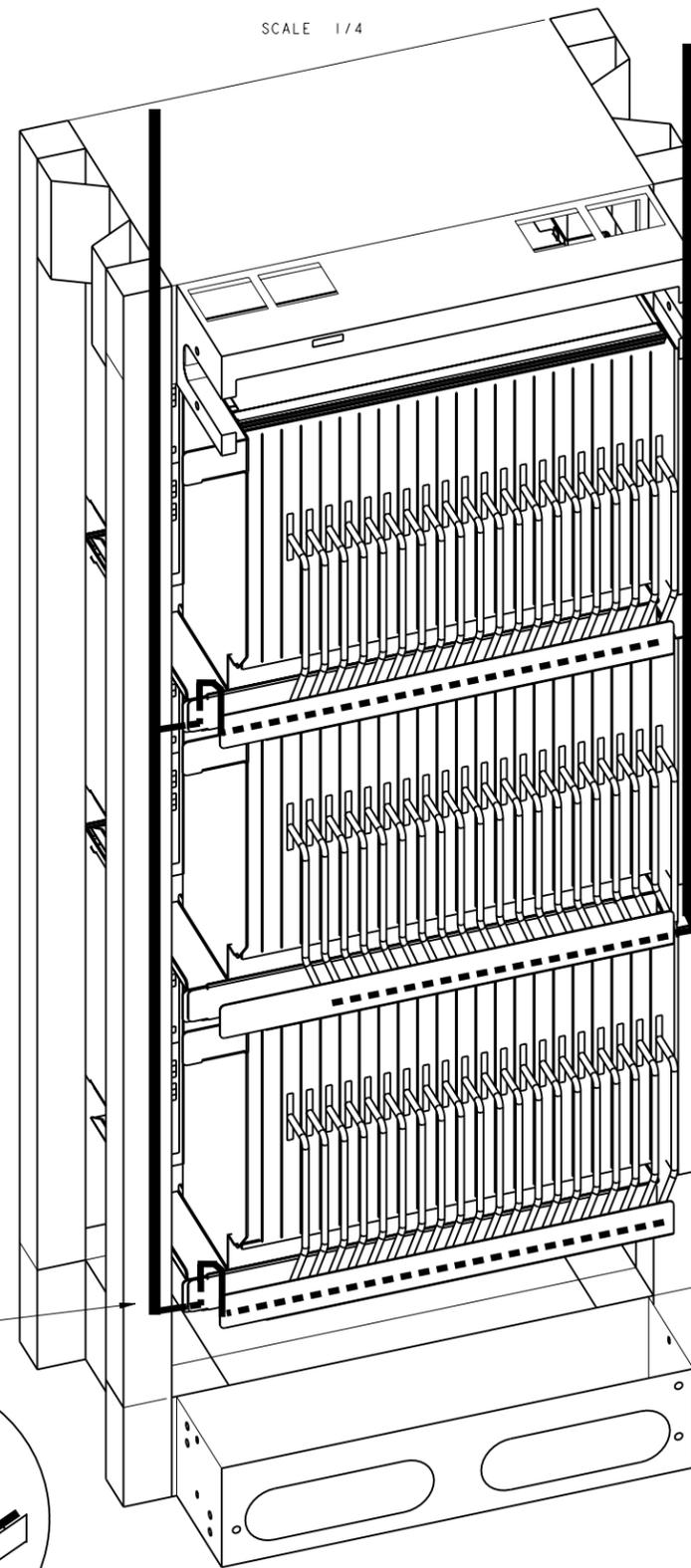
T/R CABLE ROUTING FOR SIX AIU UNITS INSTALLED IN 5ESS-2000 GLOBAL FAC CABINET

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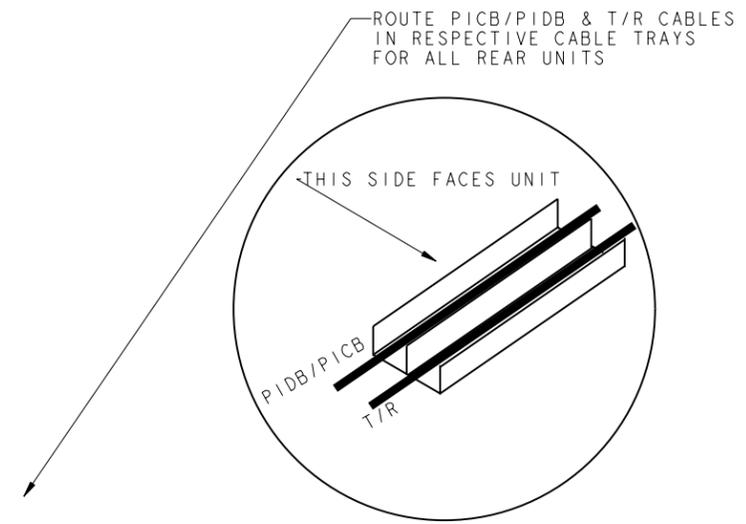
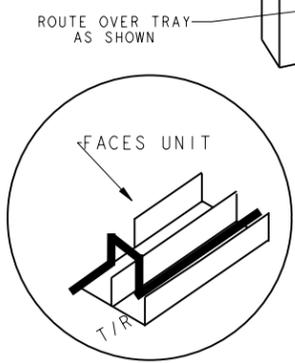
ED5D825-13



ED5D825-13

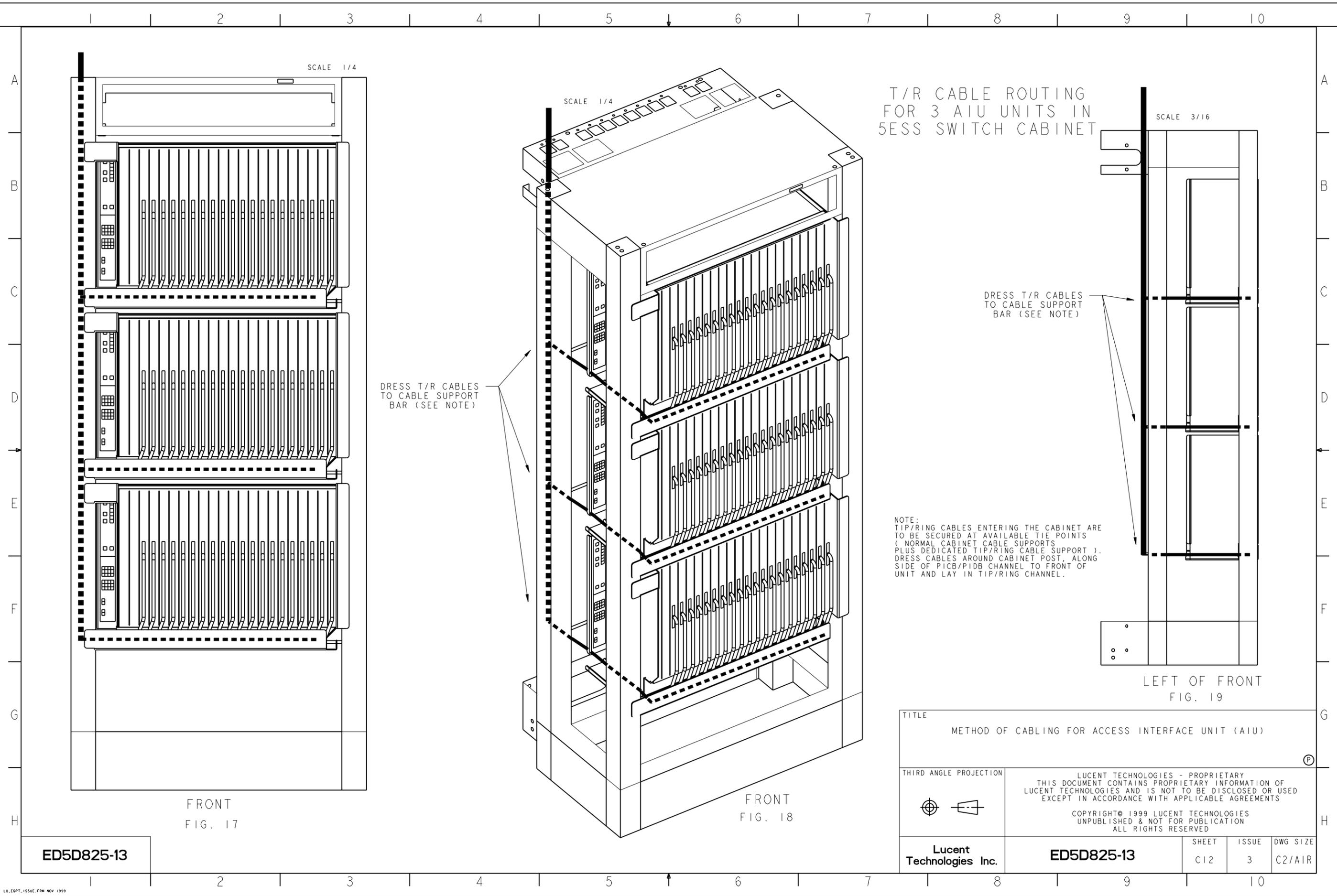


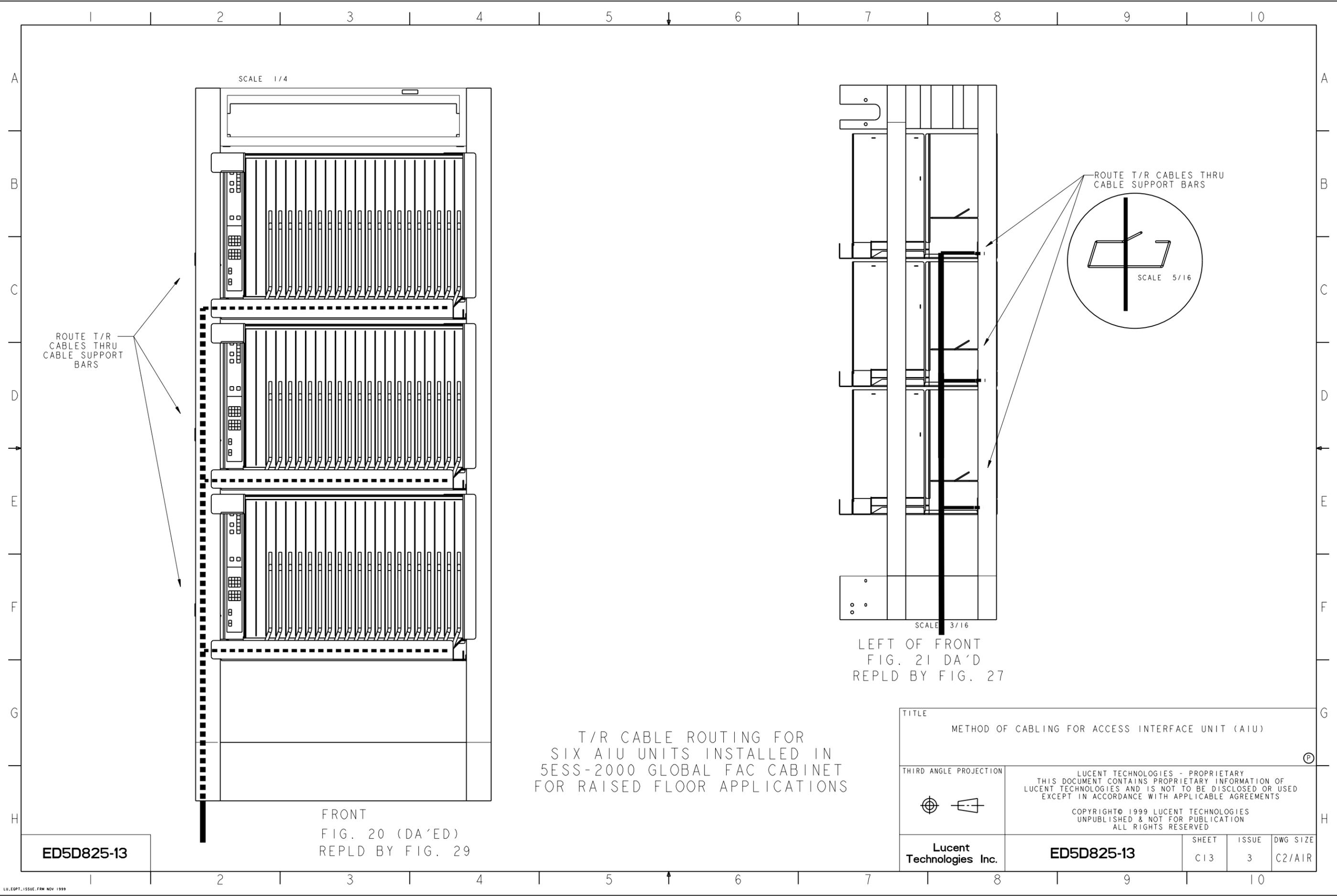
REAR
FIG. 16



T/R CABLE ROUTING FOR
SIX AIU UNITS INSTALLED IN
5ESS-2000 GLOBAL FAC CABINET

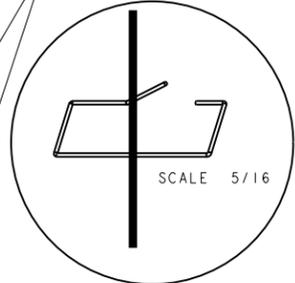
TITLE				
METHOD OF CABLING FOR ACCESS INTERFACE UNIT (AIU)				
THIRD ANGLE PROJECTION				
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			DWG SIZE C2/AIR	





ROUTE T/R
CABLES THRU
CABLE SUPPORT
BARS

ROUTE T/R CABLES THRU
CABLE SUPPORT BARS



SCALE 3/16

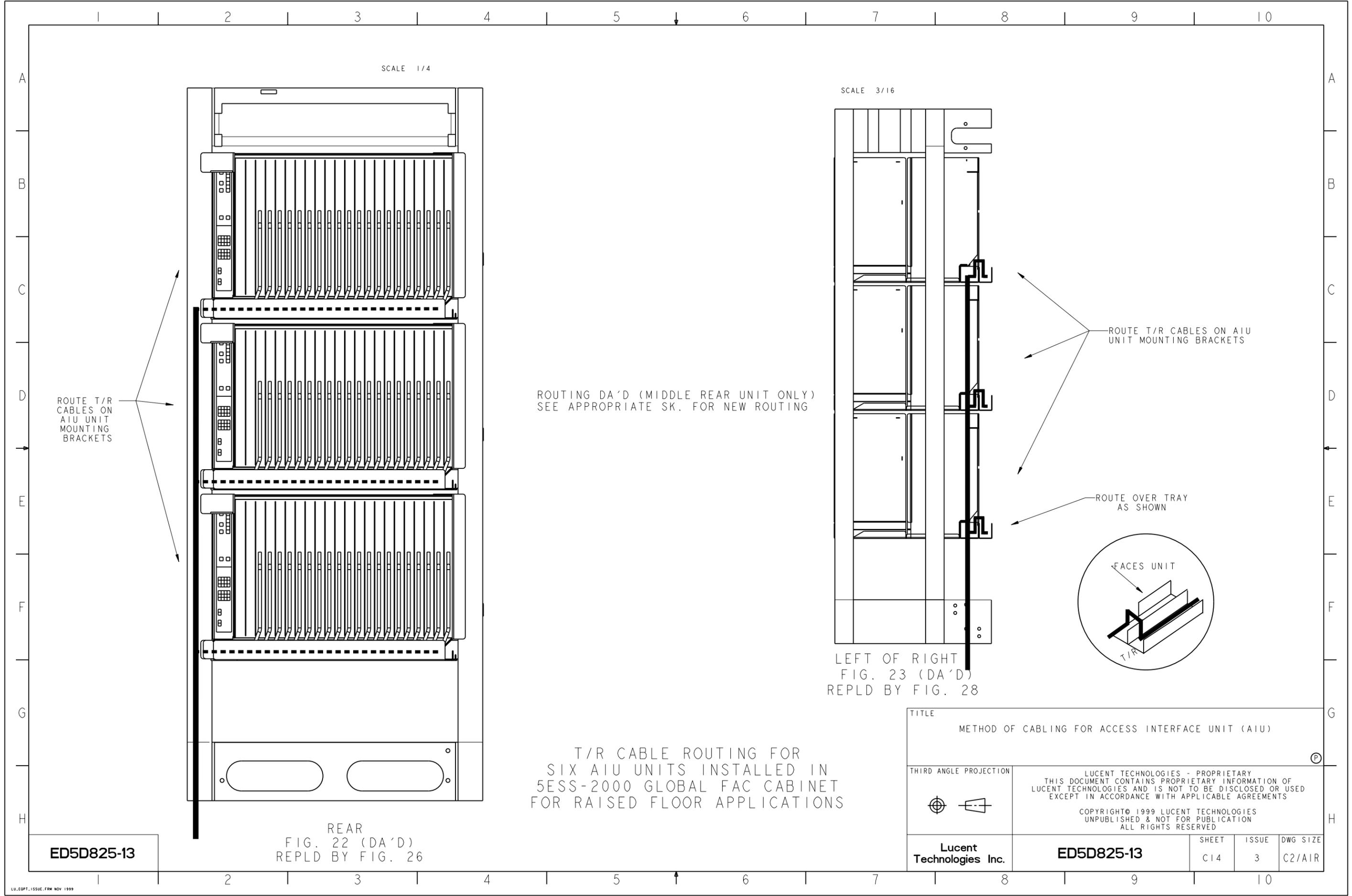
LEFT OF FRONT
FIG. 21 DA'D
REPLD BY FIG. 27

T/R CABLE ROUTING FOR
SIX AIU UNITS INSTALLED IN
5ESS-2000 GLOBAL FAC CABINET
FOR RAISED FLOOR APPLICATIONS

FRONT
FIG. 20 (DA'ED)
REPLD BY FIG. 29

ED5D825-13

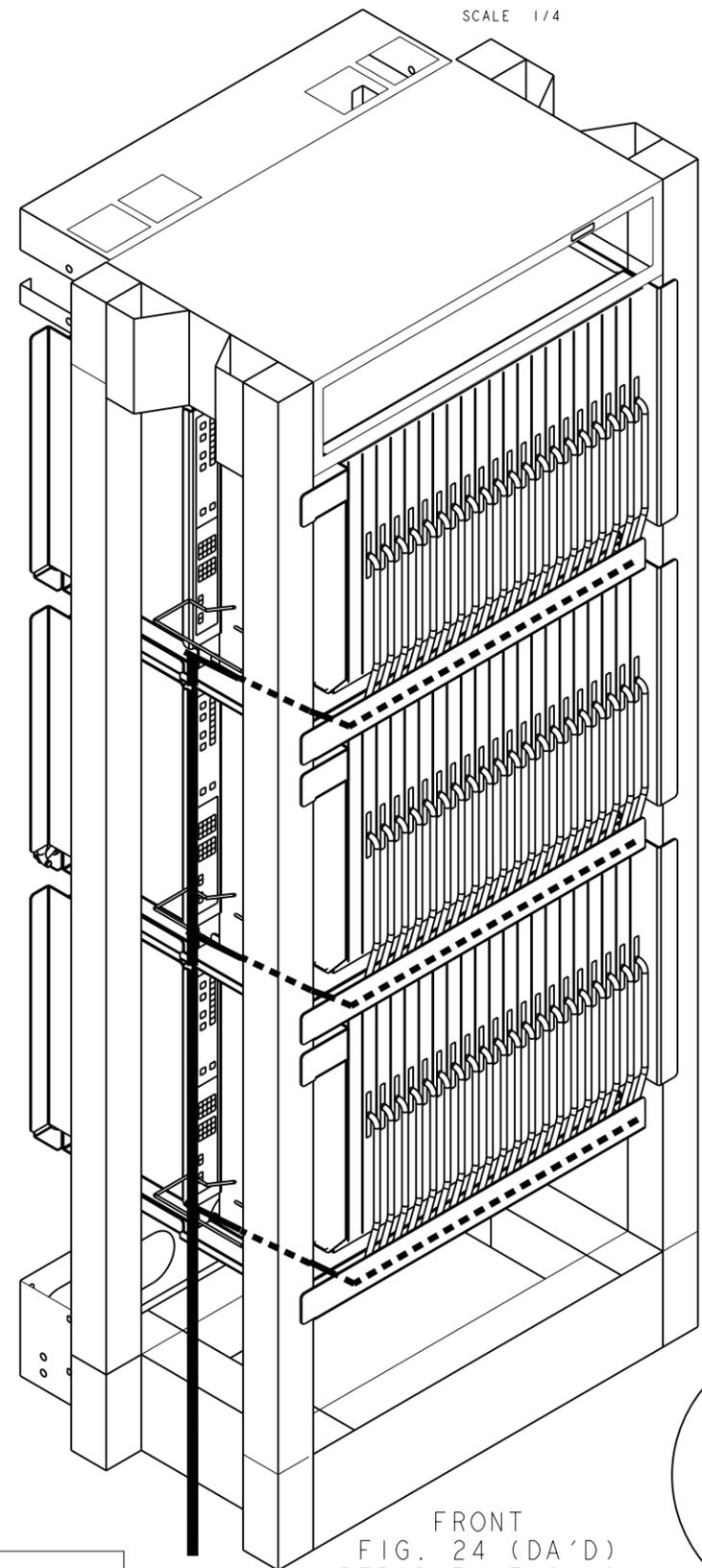
TITLE				
METHOD OF CABLING FOR ACCESS INTERFACE UNIT (AIU)				
(P)				
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			DWG SIZE C2/AIR	



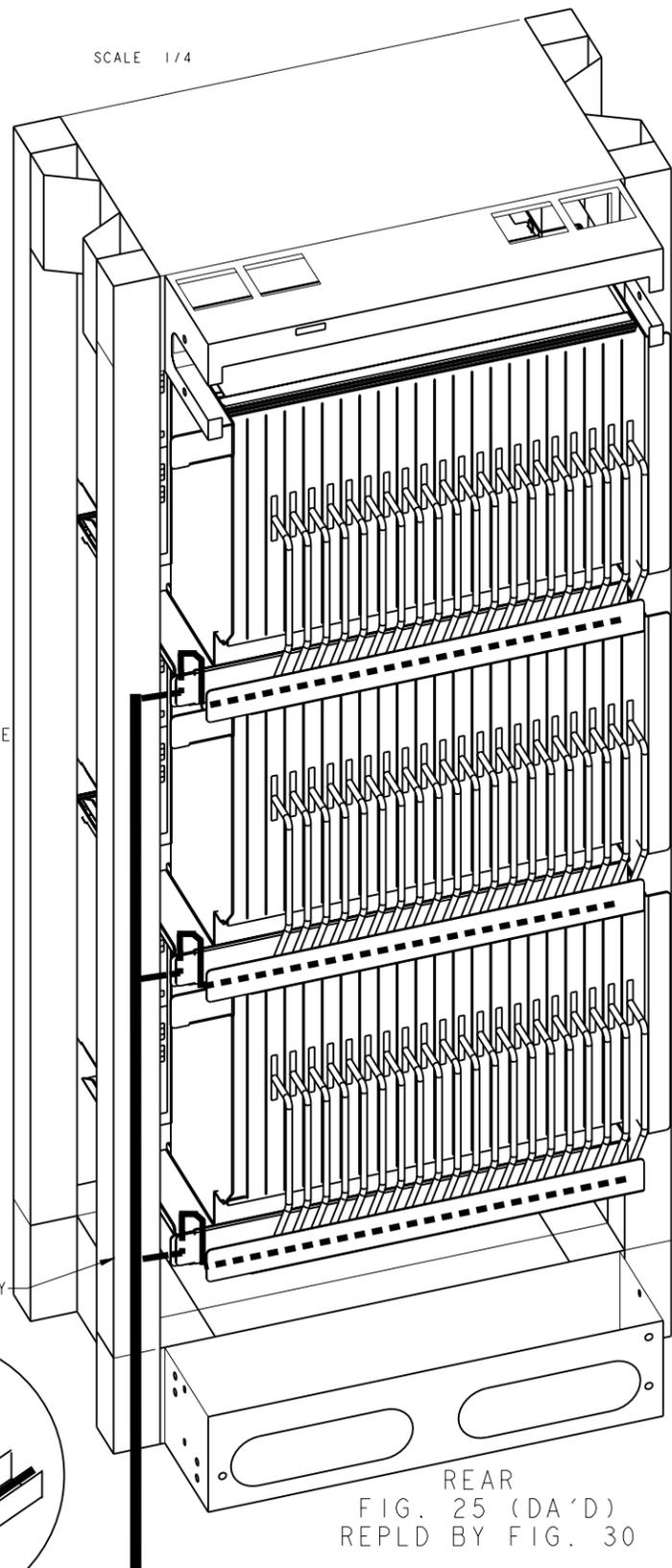
ED5D825-13

REAR
FIG. 22 (DA'D)
REPLD BY FIG. 26

TITLE										
METHOD OF CABLING FOR ACCESS INTERFACE UNIT (AIU)										
(P)										
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		Lucent Technologies Inc.	ED5D825-13	<table border="1"> <tr> <td>SHEET</td> <td>ISSUE</td> <td>DWG SIZE</td> </tr> <tr> <td>C14</td> <td>3</td> <td>C2/AIR</td> </tr> </table>	SHEET	ISSUE	DWG SIZE	C14	3	C2/AIR
SHEET	ISSUE	DWG SIZE								
C14	3	C2/AIR								



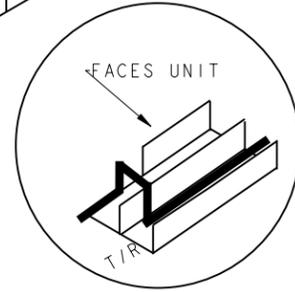
FRONT
FIG. 24 (DA'D)
REPLD BY FIG. 29



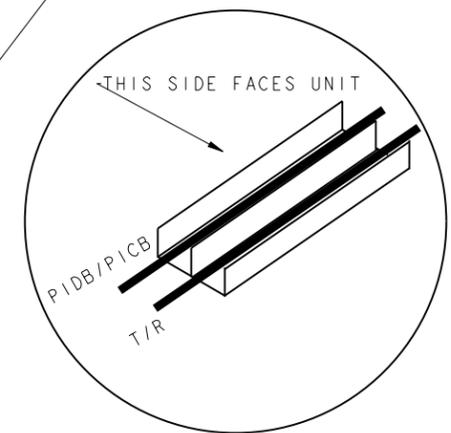
REAR
FIG. 25 (DA'D)
REPLD BY FIG. 30

ROUTING DA'D
(MIDDLE REAR
UNIT ONLY) SEE
APPROPRIATE
SK. FOR NEW
ROUTING

ROUTE OVER TRAY
AS SHOWN



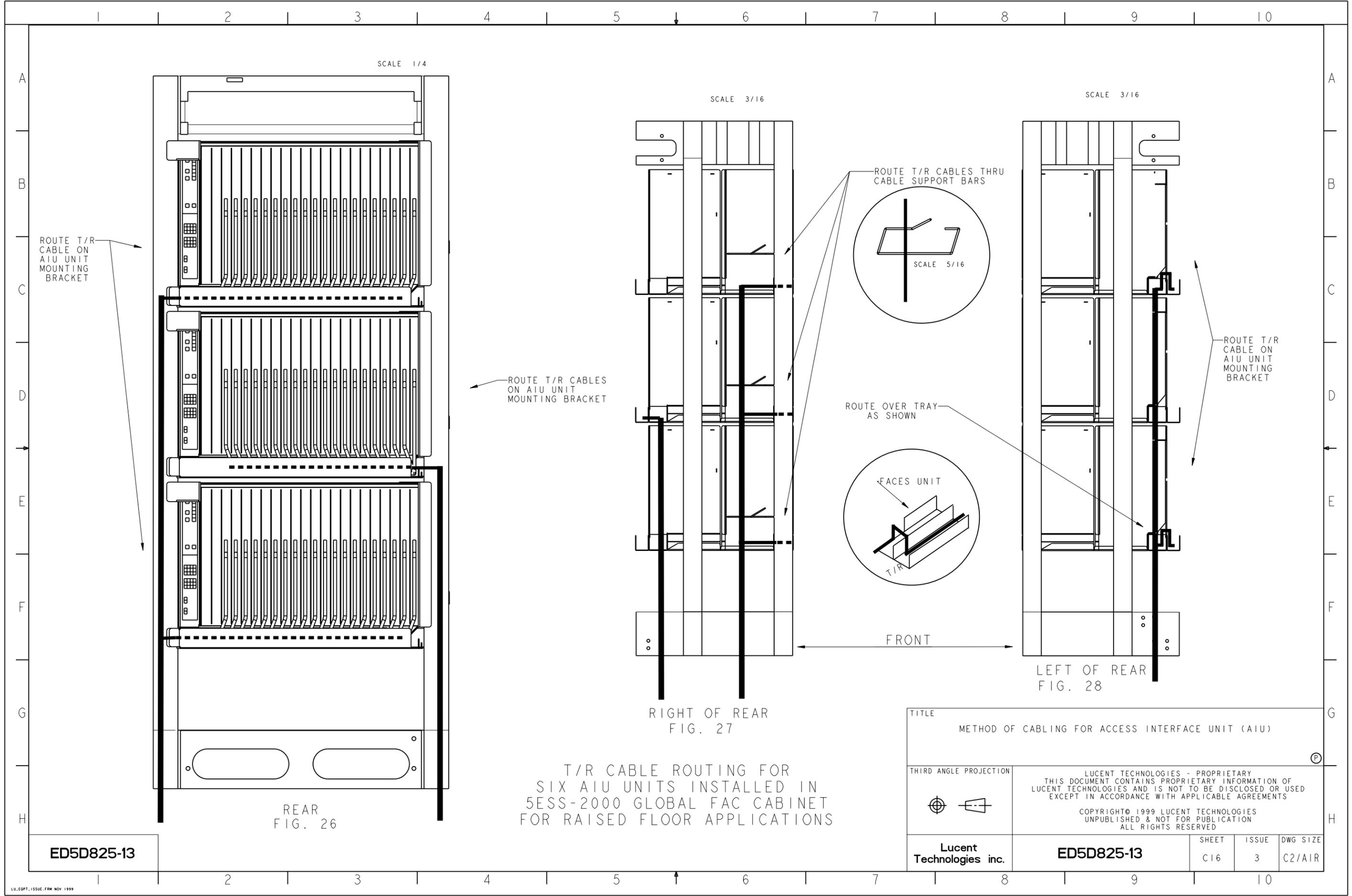
ROUTE PICB/PIDB & T/R CABLES
IN RESPECTIVE CABLE TRAYS
FOR ALL REAR UNITS



T/R CABLE ROUTING FOR
SIX AIU UNITS INSTALLED IN
5ESS-2000 GLOBAL FAC CABINET
FOR RAISED FLOOR APPLICATIONS

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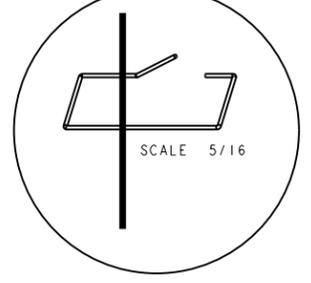
SCALE 3/16

SCALE 3/16

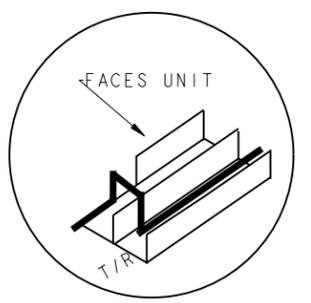
ROUTE T/R
CABLE ON
AIU UNIT
MOUNTING
BRACKET

ROUTE T/R CABLES
ON AIU UNIT
MOUNTING
BRACKET

ROUTE T/R CABLES THRU
CABLE SUPPORT BARS



ROUTE OVER TRAY
AS SHOWN



ROUTE T/R
CABLE ON
AIU UNIT
MOUNTING
BRACKET

FRONT

LEFT OF REAR
FIG. 28

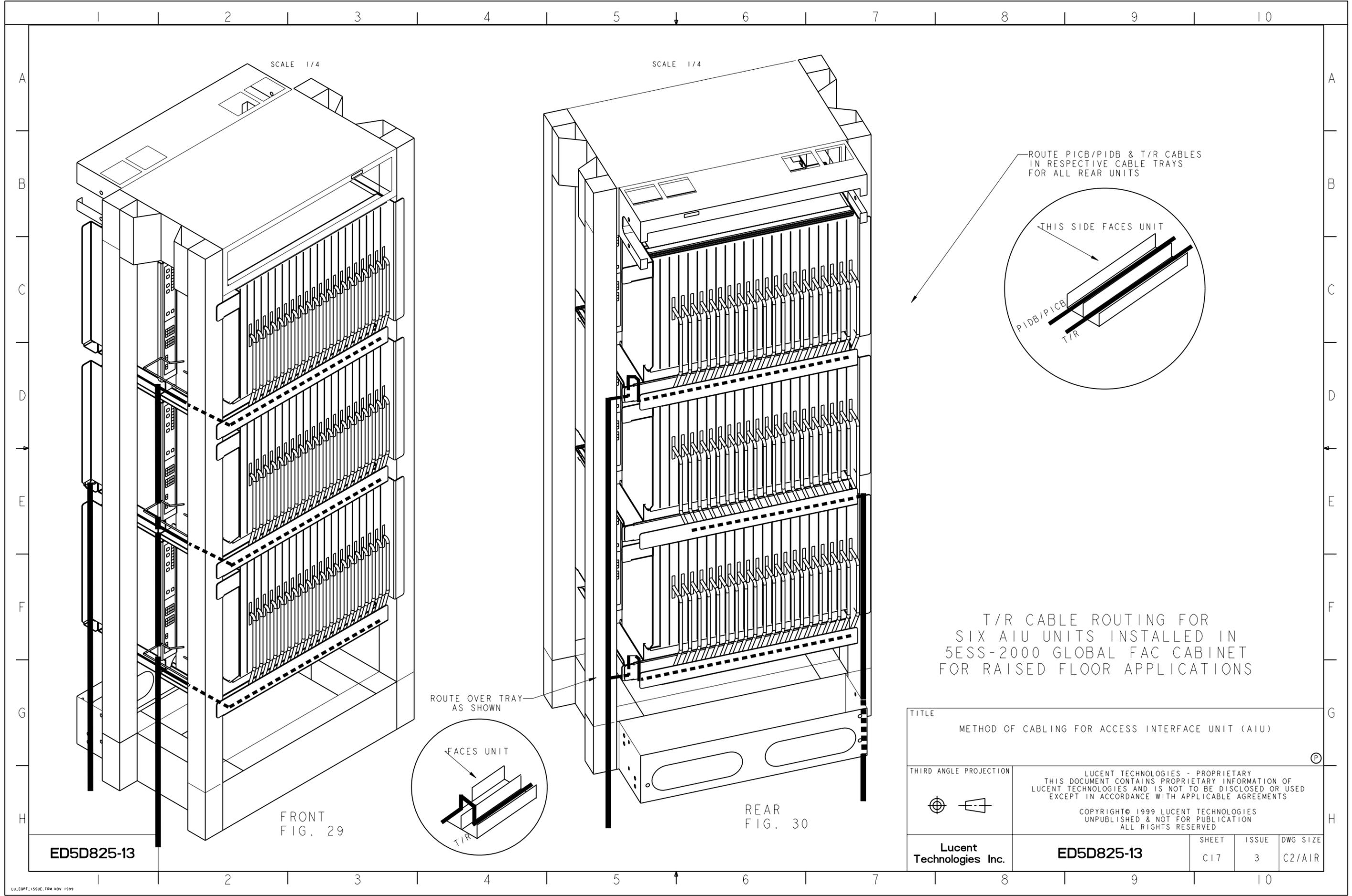
RIGHT OF REAR
FIG. 27

REAR
FIG. 26

T/R CABLE ROUTING FOR
SIX AIU UNITS INSTALLED IN
5ESS-2000 GLOBAL FAC CABINET
FOR RAISED FLOOR APPLICATIONS

TITLE				
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		SHEET	ISSUE	DWG SIZE
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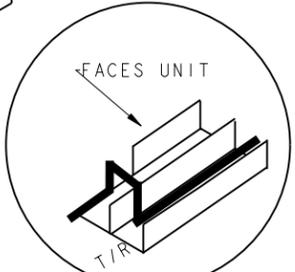
ED5D825-13



ED5D825-13

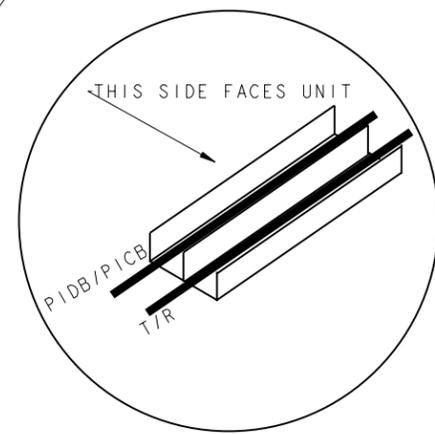
FRONT
FIG. 29

ROUTE OVER TRAY
AS SHOWN



REAR
FIG. 30

ROUTE PICB/PIDB & T/R CABLES
IN RESPECTIVE CABLE TRAYS
FOR ALL REAR UNITS



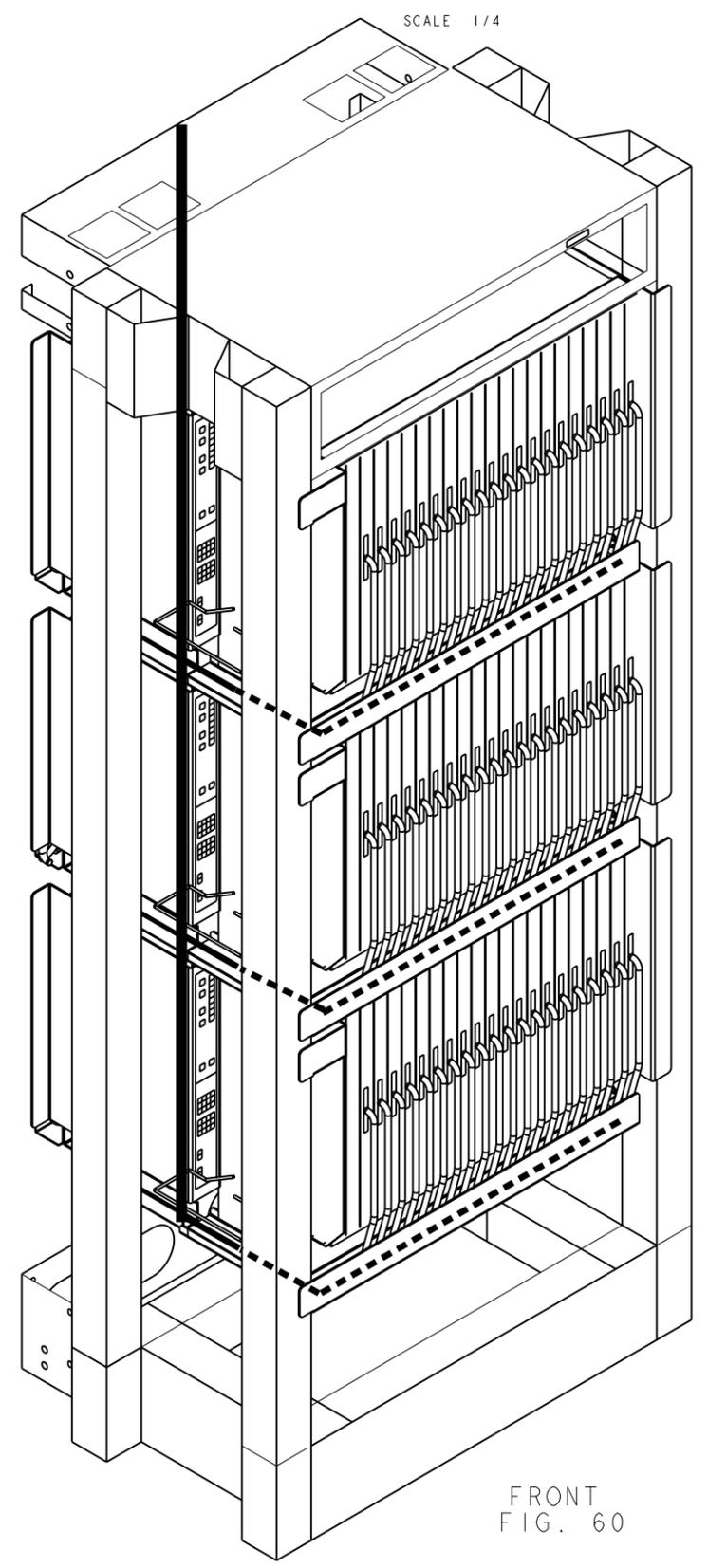
T/R CABLE ROUTING FOR
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5ESS-2000 GLOBAL FAC CABINET
FOR RAISED FLOOR APPLICATIONS

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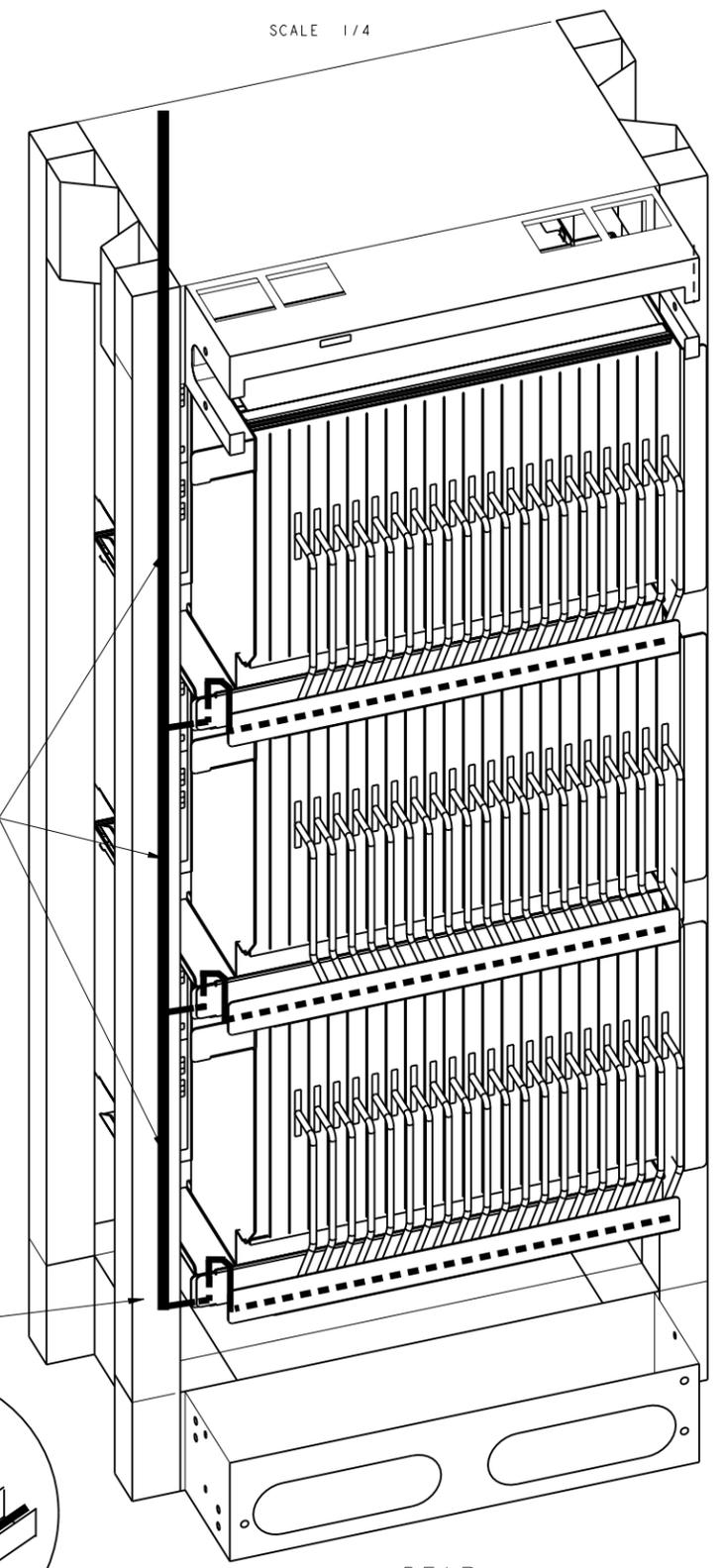
1 2 3 4 5 6 7 8 9 10

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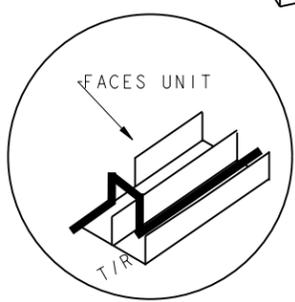
FRONT
FIG. 60



REAR
FIG. 61

SEE FIG.
51, 53, 55
FOR INTERFACE
BETWEEN T/R
CABLES

ROUTE OVER TRAY
AS SHOWN



ADSL ON THE ANYMEDIA AIU
CONFIGURATION
T/R CABLE ROUTING FOR
SIX AIU UNITS INSTALLED IN
5ESS-2000 GLOBAL FAC CABINET
FOR RAISED FLOOR APPLICATIONS

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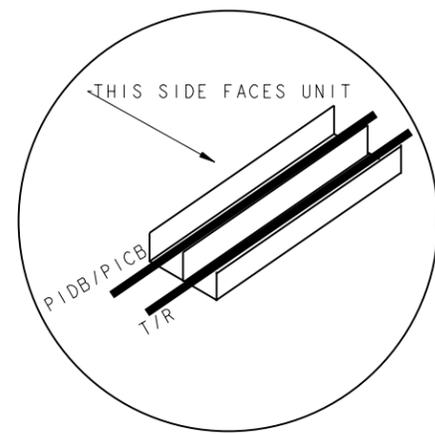
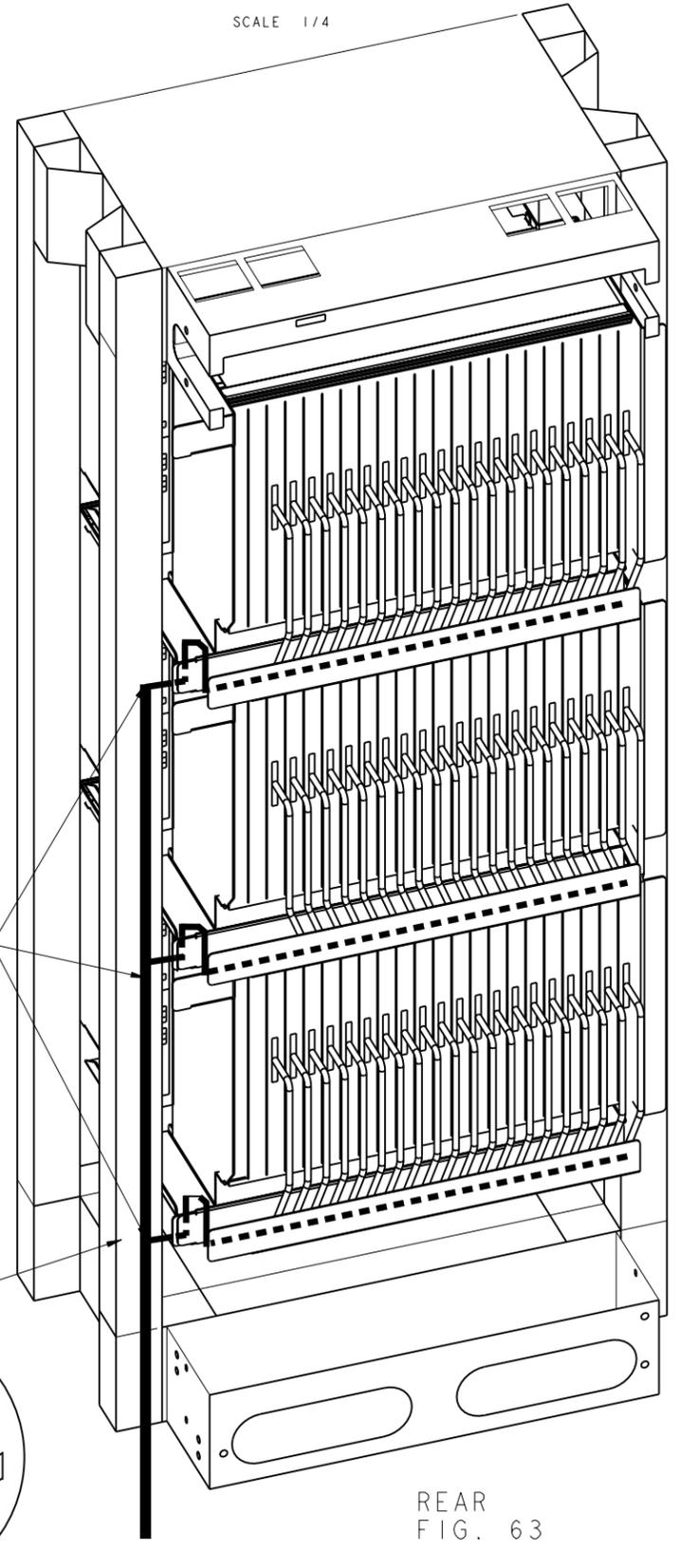
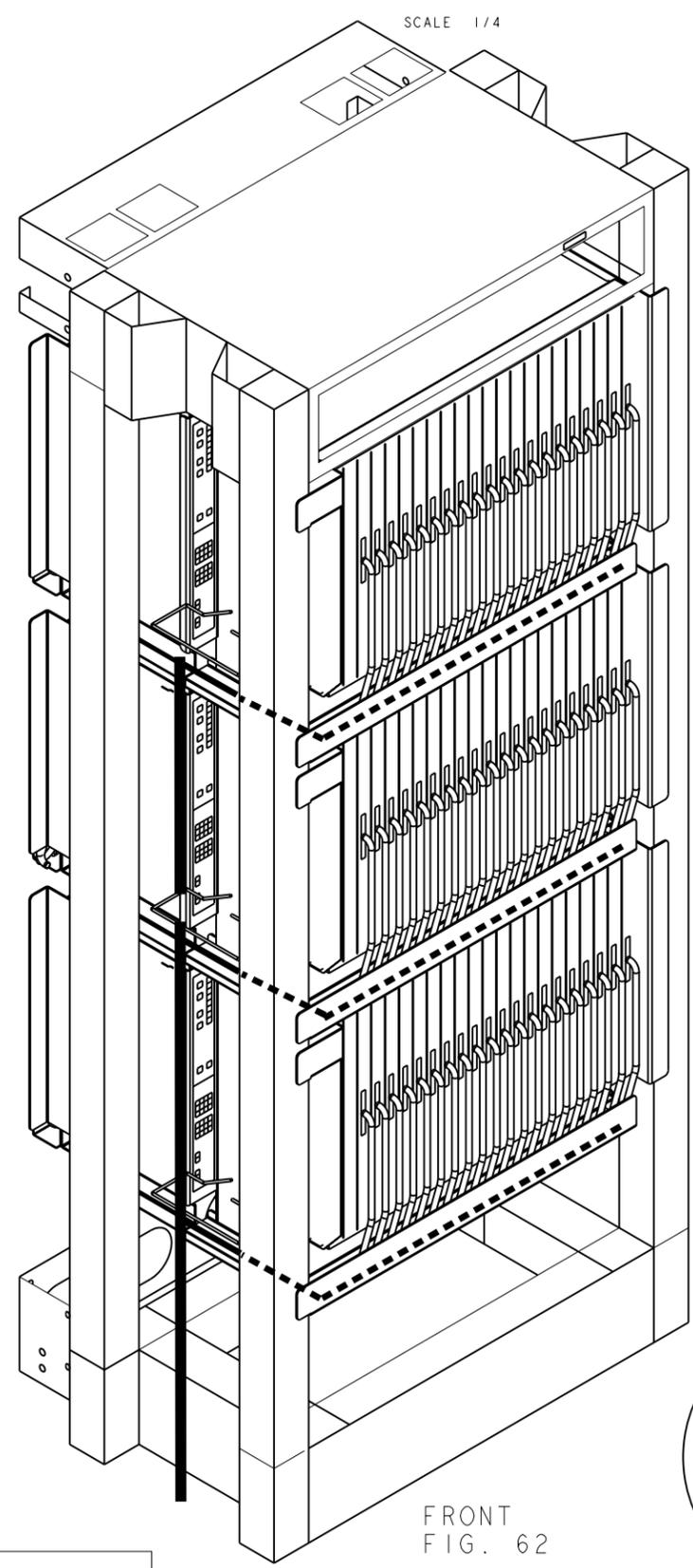
ED5D825-13

1 2 3 4 5 6 7 8 9 10

1 2 3 4 5 6 7 8 9 10

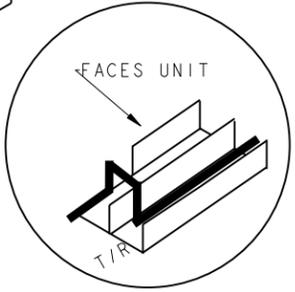
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SEE FIG. 51, 53, 55 FOR INTERFACE BETWEEN T/R CABLES

ROUTE OVER TRAY AS SHOWN



ADSL ON THE ANYMEDIA AIU CONFIGURATION
T/R CABLE ROUTING FOR SIX AIU UNITS INSTALLED IN 5ESS-2000 GLOBAL FAC CABINET FOR RAISED FLOOR APPLICATIONS

TITLE				
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FRONT FIG. 62

REAR FIG. 63

1 2 3 4 5 6 7 8 9 10