

ENGINEERING NOTES

***** CONTINUED *****
 GASKET STRIPS) PROVIDED PER ED5D744-70,G9 MUST BE INSTALLED ON INDIVIDUAL CABINETS PRIOR TO THEIR PLACEMENT IN THE LINE-UP, OTHERWISE IT WILL BE IMPOSSIBLE TO ADD THIS MATERIAL LATER, WHEN CABINETS ARE JUNCTIONED.

ENGINEERING NOTES

- 51. RESERVED.
- 52. RESERVED.
- 53. RESERVED.
- 54. TO MEET FCC REQUIREMENTS ON ELECTROMAGNETIC EMISSIONS IN PRIVATE BRANCH EXCHANGE (PBX) APPLICATIONS, AND IN ORDER FOR THE 5ESS-2000 CABINET TO BE EMC COMPLIANT WITH AT&T CENTRAL OFFICE INDUSTRIAL STANDARDS AND GUIDELINES, ISSUE 2, NEBS 4, PORTION OF ETSI; THE CABINET (PER ED5D741-70,G1B) AND DOORS (PER ED5D741-70, G2) MUST BE SHIELDED AND GASKETED PER THE FOLLOWING ED5D744-70 GROUPS:
 - A. SHIELDING REQUIRED ON THE RIGHT SIDE OF A CABINET LINE-UP PER GROUP 1 (NO A.C. OUTLET PROVIDED).
 - B. SHIELDING REQUIRED ON THE RIGHT SIDE OF A CABINET LINE-UP PER GROUP 3 (120V, A.C. OUTLET PROVIDED).
 - C. SHIELDING REQUIRED ON THE LEFT SIDE OF A CABINET LINE-UP PER GROUP 2 (NO A.C. OUTLET PROVIDED).
 - D. SHIELDING REQUIRED ON THE LEFT SIDE OF A CABINET LINE-UP PER GROUP 4 (120V, A.C. OUTLET PROVIDED).
 - E. CLOSURE PLATE (MIDDLE) REQUIRED EITHER AT THE RIGHT SIDE OR LEFT SIDE OF A JUNCTION OF ADJACENT VERTICAL CABLE CHANNELS ON THE REAR OF CABINET. ORDER AS REQUIRED, ONE GROUP 5 PER JUNCTION.
 - G. EMC GASKET KIT REQUIRED TO COMPLETELY GASKET ONE (1) 5ESS-2000 CABINET; TWO (2) UPPER, AND TWO (2) LOWER DOOR FRAMES, AND TWO (2) DOOR ASSEMBLIES PER GROUP 6.
 - H. SHIELDING REQUIRED AT THE TOP OF A CABINET BETWEEN CABINET TOP AND LINEUP CABLE RACK PER GROUP 7 (SEE NOTE 56).
 - J. EMC SHIELDING TAPE REQUIRED AT THE JUNCTION OF FRONT CABINET UPRIGHTS ON ADJACENT CABINETS. ORDER AS REQUIRED, ONE GROUP 8 PER JUNCTION.
 - K. EMC GASKET STRIP (FOAM) REQUIRED AT JUNCTION (TOP & BOTTOM SIDES) ON ADJACENT CABINETS. ORDER AS REQUIRED, ONE GROUP 9 PER JUNCTION. (SEE NOTE 57).
 - L. EMC SHIELD, PCFD, RIGHT - REQUIRED TO PROVIDE EMC SHIELDING (CLOSURE) OF THE LEFT SIDE OF A 5ESS-2000 CABINET ADJACENT TO A PCFD CABINET PER GROUP 10.
 - M. EMC SHIELD, PCFD, LEFT - REQUIRED TO PROVIDE EMC SHIELDING (CLOSURE) OF THE RIGHT SIDE OF A 5ESS-2000 CABINET ADJACENT TO A PCFD CABINET PER GROUP 11.
- 55. EMC SIDE SHIELDS PER GROUPS 1,2,3 AND 4 WILL FUNCTION IN AN "END OF LINE-UP" OR "GAP IN A LINE-UP" CONDITION, AND WILL INTERGRATE WITH END GUARDS PER ED5D743-70.
- 56. EMC TOP SHIELD, ED5D744-70,G7 MUST BE INSTALLED ON THE TOP OF THE CABINET PRIOR TO MOUNTING THE LINE-UP CABLE RACK ORDERED PER ED5D742-70.
- 57. IN PBX APPLICATIONS, AND/OR WHEN JOB ORDERS SPECIFY EMC COMPLIANCE, SHIELDING BETWEEN ADJACENT CABINETS (CONDUCTIVE FOAM ----- CONTINUED TO THE LEFT -----)

ISSUE NOTES

ORIG ISS: 02/23/94 NDD NBR: 5D744-70NW-1 CHANGE CLASS:
 DRAFT: GLC ENGR: JMB SUPV: EJB CERTIFIED: 02/23/94 ISSUE: 1
 CHANGED: COMCODES 847210028 AND 847210010 IN SHEET B3 TO AGREE WITH LATEST ISSUE.
 ORIG ISS: 02/23/94 NDD NBR: CO94NW0143 CHANGE CLASS: ME
 DRAFT: GLC ENGR: EMR SUPV: CERTIFIED: 02/20/95 ISSUE: 2
 C1028 - RATED GROUPS 1 THROUGH 11 AS 'DA'. FUNCTIONAL EQUIVALENT FOR GROUPS 8 AND 9 ARE ED5D832-70 G41 AND G42. PROPRIETARY NOTE READ "AT&T".
 ORIG ISS: 02/23/94 CHANGE CLASS: ME
 DRAFT: ED ENGR: ED SUPV: EJZ CERTIFIED: 01/14/99 ISSUE: 3

SHEET INDEX

SHT NBR	A1 THRU A2 ISSUE 3										
ISSUE	D1 THRU D1 ISSUE 3										
SHT NBR	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11
ISSUE	1	1	2	1	1	1	1	1	1	1	1
SHT NBR											
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LUCENT TECHNOLOGIES - PROPRIETARY USE PURSUANT TO COMPANY INSTRUCTIONS	
RT99	
5ESS-2000 SWITCH CABINET EMC TREATMENT	
DWG SIZE C2	ISSUE 3
LUCENT TECHNOLOGIES INC	ED5D744-70
SHEET A1 OF 14	

TABLE A-FEATURES												
EQUIPMENT		EQUIPMENT OR CIRCUIT DATA							SD EQUIVALENT			
DESCRIPTION	REF NOTE	RAT-ING	LIST OR GROUP	QTY	EQUIPMENT OR CIRCUIT	L/G OR FIG	WRG	APP	SCHEMATIC	FIG	OPT	
EMC SHIELD, RIGHT - REQUIRED TO PROVIDE EMC SHIELDING (CLOSURE) OF THE RIGHT SIDE OF A 5ESS-2000 CABINET AT THE END OF A LINE-UP, OR WHERE A GAP IN A LINE-UP EXISTS. FE/RA:NONE DA EFF:12/01/98	54	DA	1									
EMC SHIELD, LEFT - REQUIRED TO PROVIDE EMC SHIELDING (CLOSURE) OF THE LEFT SIDE OF A 5ESS-2000 CABINET AT THE END OF A LINE-UP, OR WHERE A GAP IN A LINE-UP EXISTS. FE/RA:NONE DA EFF:12/01/98	54	DA	2									
EMC SHIELD ASSEMBLY, RIGHT - REQUIRED TO PROVIDE EMC SHIELDING (CLOSURE) OF THE RIGHT SIDE OF A 5ESS-2000 CABINET (INCLUDING A 120V, A.C. APPLIANCE OUTLET) AT THE END OF A LINE-UP. FE/RA:NONE DA EFF:12/01/98	54	DA	3									
EMC SHIELD ASSEMBLY, LEFT - REQUIRED TO PROVIDE EMC SHIELDING (CLOSURE) OF THE LEFT SIDE OF A 5ESS-2000 CABINET (INCLUDING A 120V, A.C. APPLIANCE OUTLET) AT THE END OF A LINE-UP. FE/RA:NONE DA EFF:12/01/98	54	DA	4									
CLOSURE PLATE (MIDDLE)-REQUIRED TO PROVIDE EMC SHIELDING (CLOSURE) AT THE JUNCTION OF ADJACENT VERTICAL CABLE CHANNELS ON THE REAR OF 5ESS-2000 CABINETS. FE/RA:NONE DA EFF:12/01/98	54	DA	5									
EMC GASKET KIT - REQUIRED TO PROVIDE A COMPLETE KIT FOR GASKETING TWO (2) UPPER, AND TWO (2) LOWER DOOR FRAMES; AND TWO (2) DOOR ASSEMBLIES (AS PROVIDED PER ED5D741-70, GROUP 2). FE/RA:NONE DA EFF:12/01/98	54	DA	6									
EMC SHIELD, TOP - REQUIRED TO PROVIDE EMC SHIELDING (CLOSURE) OF A 5ESS-2000 CABINET BETWEEN THE TOP OF THE CABINET AND THE LINE-UP CABLE RACK. FE/RA:NONE DA EFF:12/01/98	56	DA	7									
EMC SHIELDING TAPE - REQUIRED TO PROVIDE EMC SHIELDING (CLOSURE) AT THE JUNCTION OF THE FRONT UPRIGHTS (CABINET POSTS) OF TWO ADJACENT 5ESS-2000 CABINETS. FE:ED5D832-70,G41 ED5D832-70,G42 DA EFF:12/01/98	57	DA	8									
EMC GASKET STRIP (FOAM) - REQUIRED TO PROVIDE EMC SHIELDING (CLOSURE) AT THE JUNCTION (SIDES) OF TWO ADJACENT 5ESS-2000 CABINETS ALONG THE TOP AND BOTTOM CABINET MEMBERS. FE:ED5D832-70,G41 ED5D832-70,G42 DA EFF:12/01/98	57	DA	9									
EMC SHIELD, PCFD, RIGHT - REQUIRED TO PROVIDE EMC SHIELDING (CLOSURE) OF THE LEFT SIDE OF A 5ESS-2000 CABINET ADJACENT TO A PCFD CABINET. FE/RA:NONE DA EFF:12/01/98	54	DA	10									

TABLE-A CONTINUED

ED5D744-70

TABLE A-FEATURES (CONTINUED)												
EQUIPMENT		EQUIPMENT OR CIRCUIT DATA							SD EQUIVALENT			
DESCRIPTION	REF NOTE	RAT-ING	LIST OR GROUP	QTY	EQUIPMENT OR CIRCUIT	L/G OR FIG	WRG	APP	SCHEMATIC	FIG	OPT	
EMC SHIELD, PCFD, LEFT - REQUIRED TO PROVIDE EMC SHIELDING (CLOSURE) OF THE RIGHT SIDE OF A 5ESS-2000 CABINET ADJACENT TO A PCFD CABINET. FE/RA:NONE DA EFF:12/01/98	54	DA	11									
END OF TABLE-A												

SEE PROPRIETARY NOTICE ON SHEET ONE

RT99

5ESS-2000
SWITCH CABINET
EMC TREATMENT

DWG SIZE
C2

ISSUE
3

LUCENT TECHNOLOGIES INC

ED5D744-70

SHEET A2
OF 14

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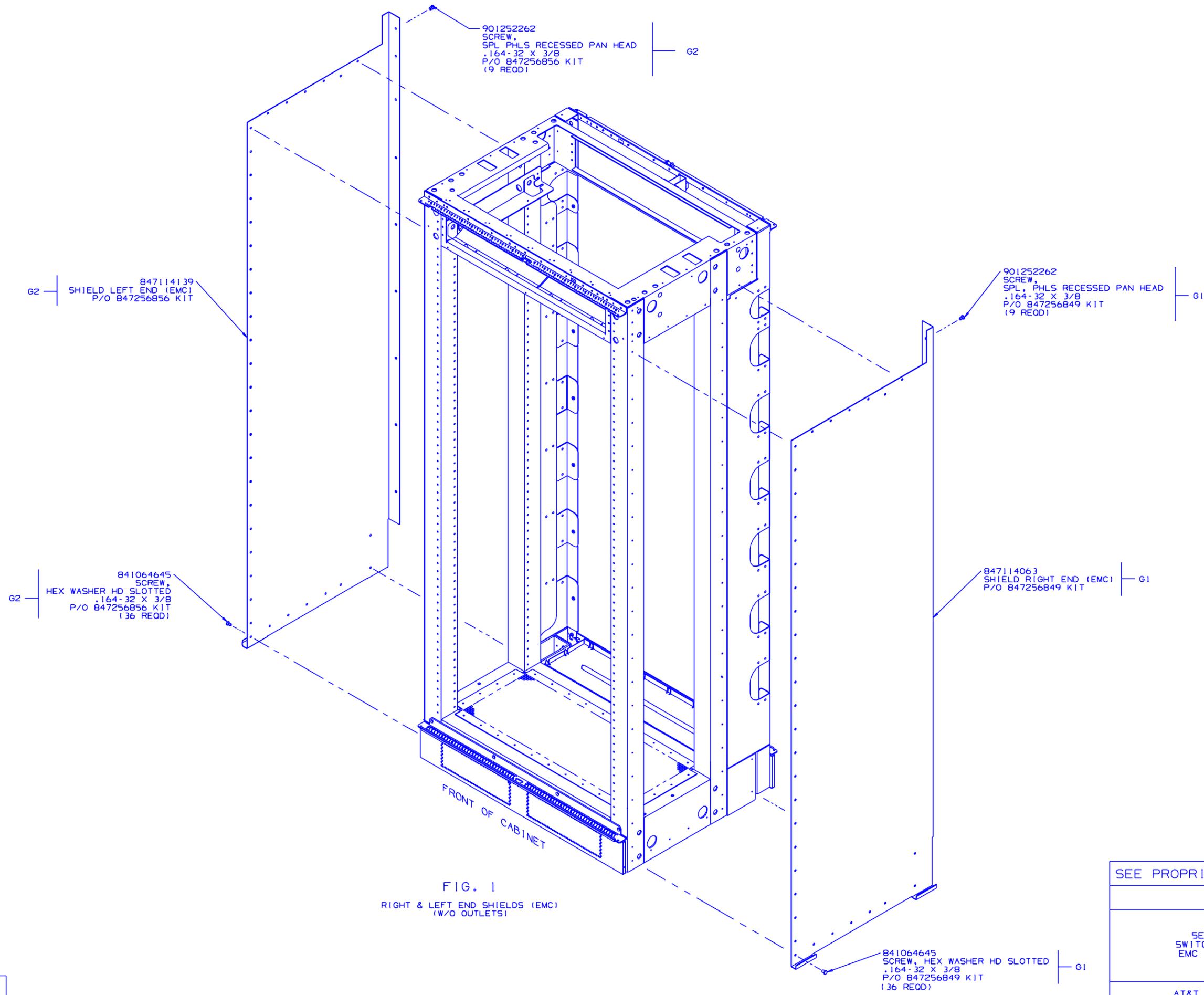


FIG. 1
RIGHT & LEFT END SHIELDS (EMC)
(W/O OUTLETS)

SEE PROPRIETARY NOTICE ON SHEET ONE		
5ESS-2000 SWITCH CABINET EMC TREATMENT	DWG SIZE	ISSUE
	C2	1
AT&T	ED5D744-70	SHEET B1

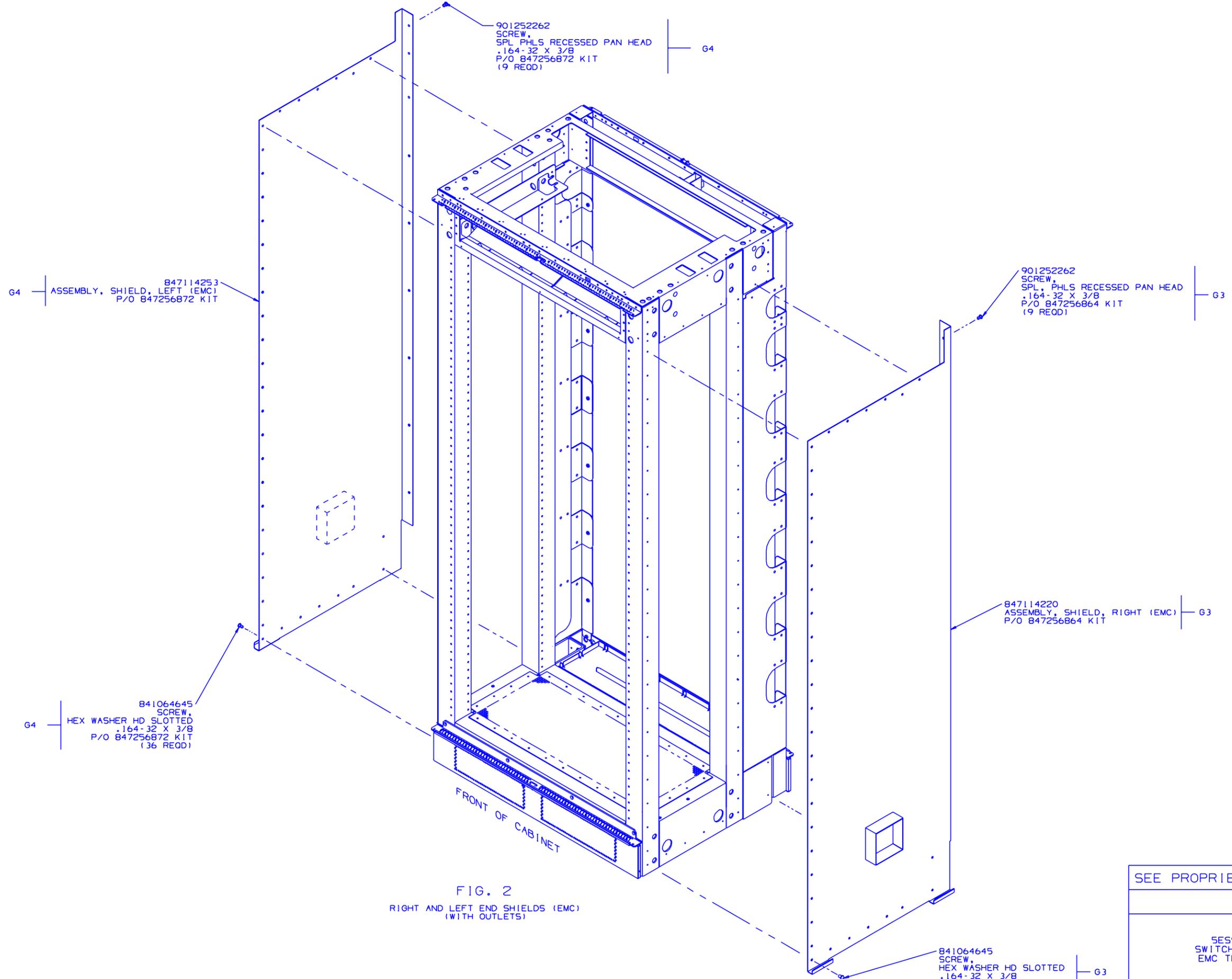


FIG. 2
RIGHT AND LEFT END SHIELDS (EMC)
(WITH OUTLETS)

SEE PROPRIETARY NOTICE ON SHEET ONE

5ESS-2000 SWITCH CABINET EMC TREATMENT		DWG SIZE	ISSUE
		C2	1
AT&T	ED5D744-70	SHEET B2	

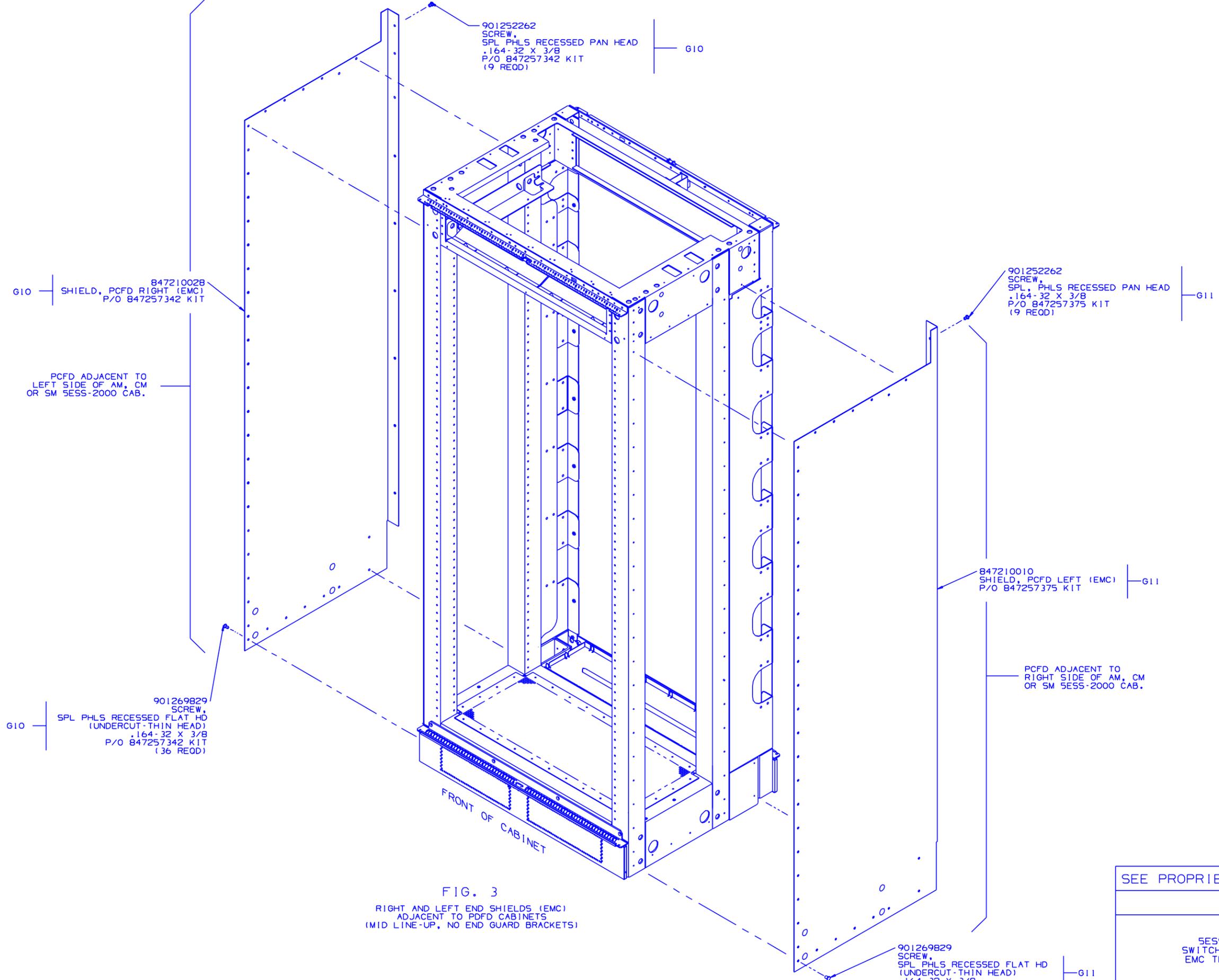


FIG. 3
RIGHT AND LEFT END SHIELDS (EMC)
ADJACENT TO PCFD CABINETS
(MID LINE-UP, NO END GUARD BRACKETS)

SEE PROPRIETARY NOTICE ON SHEET ONE		
SESS-2000 SWITCH CABINET EMC TREATMENT	DWG SIZE	ISSUE
	C2	2
AT&T	ED5D744-70	SHEET B3

COIX 2-17-95

ED5D744-70

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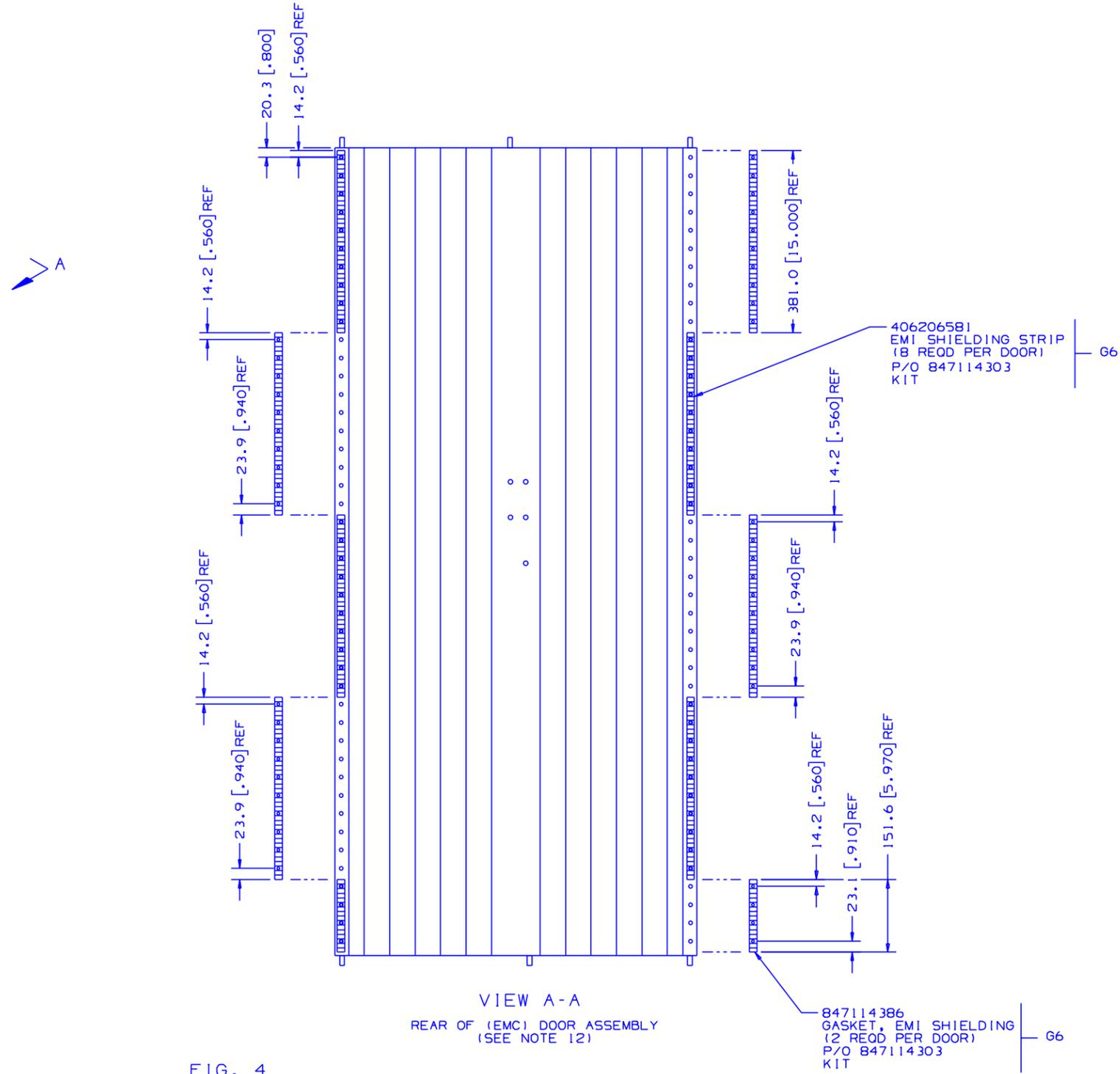
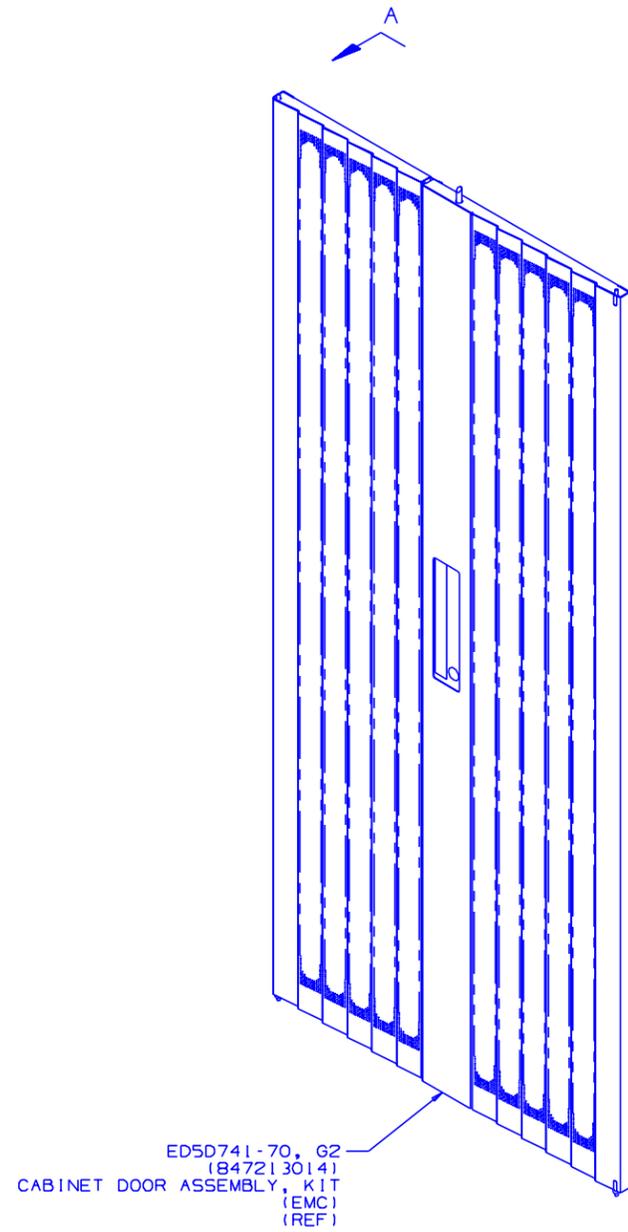


FIG. 4
 CABINET DOOR GASKETING (REAR OF DOOR)
 (TYPICAL, FRONT & REAR DOORS)
 P/O 847114303 GASKET KIT

SEE PROPRIETARY NOTICE ON SHEET ONE

5ESS-2000 SWITCH CABINET EMC TREATMENT		DWG SIZE	ISSUE
		C2	1
AT&T	ED5D744-70	SHEET B4	

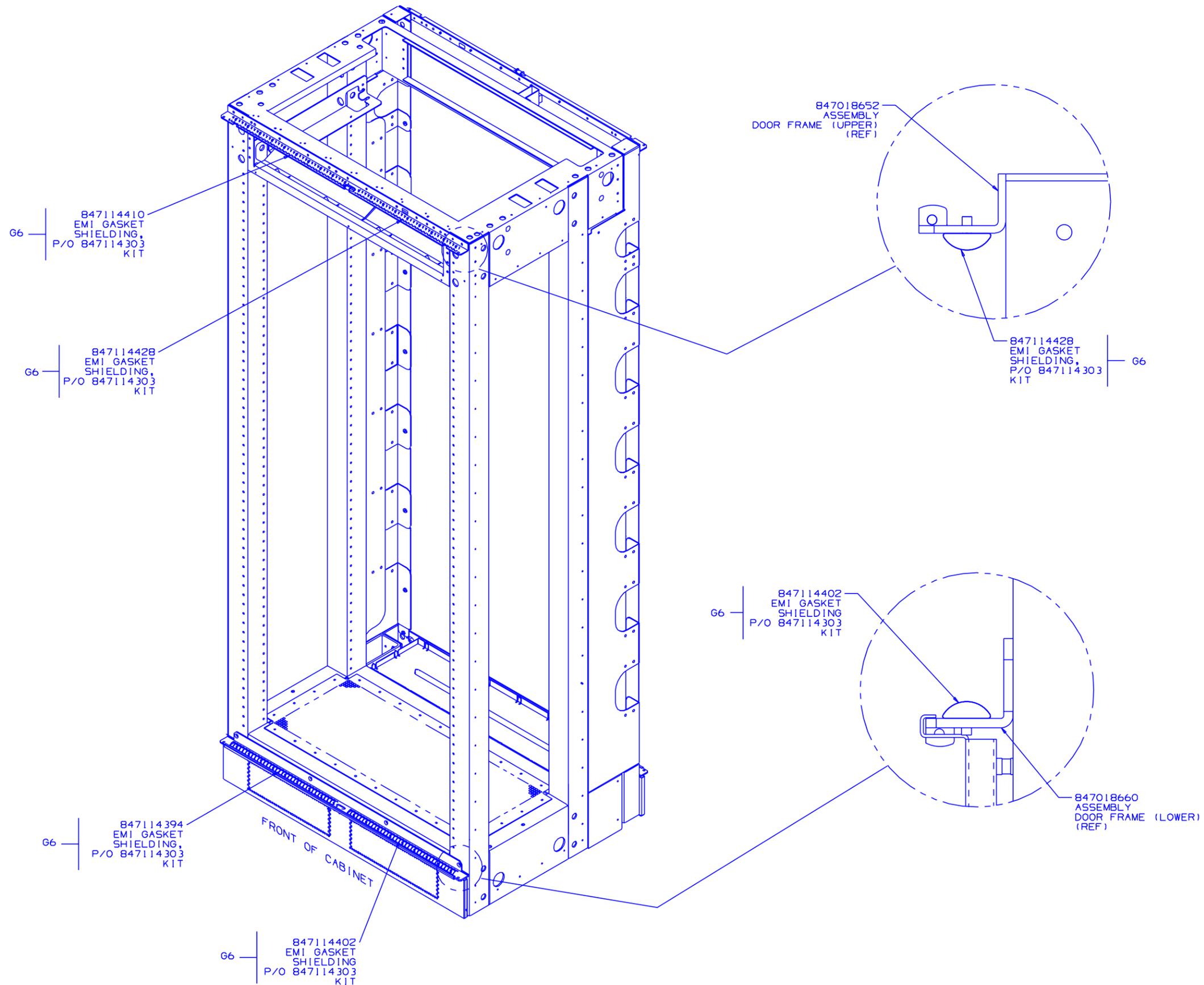


FIG. 5
UPPER & LOWER DOOR FRAME GASKETING
(TYPICAL, FRONT & REAR OF CABINET)
(SEE NOTE 12)

SEE PROPRIETARY NOTICE ON SHEET ONE		
SESS-2000 SWITCH CABINET EMC TREATMENT	DWG SIZE	ISSUE
	C2	1
AT&T	ED5D744-70	SHEET B5

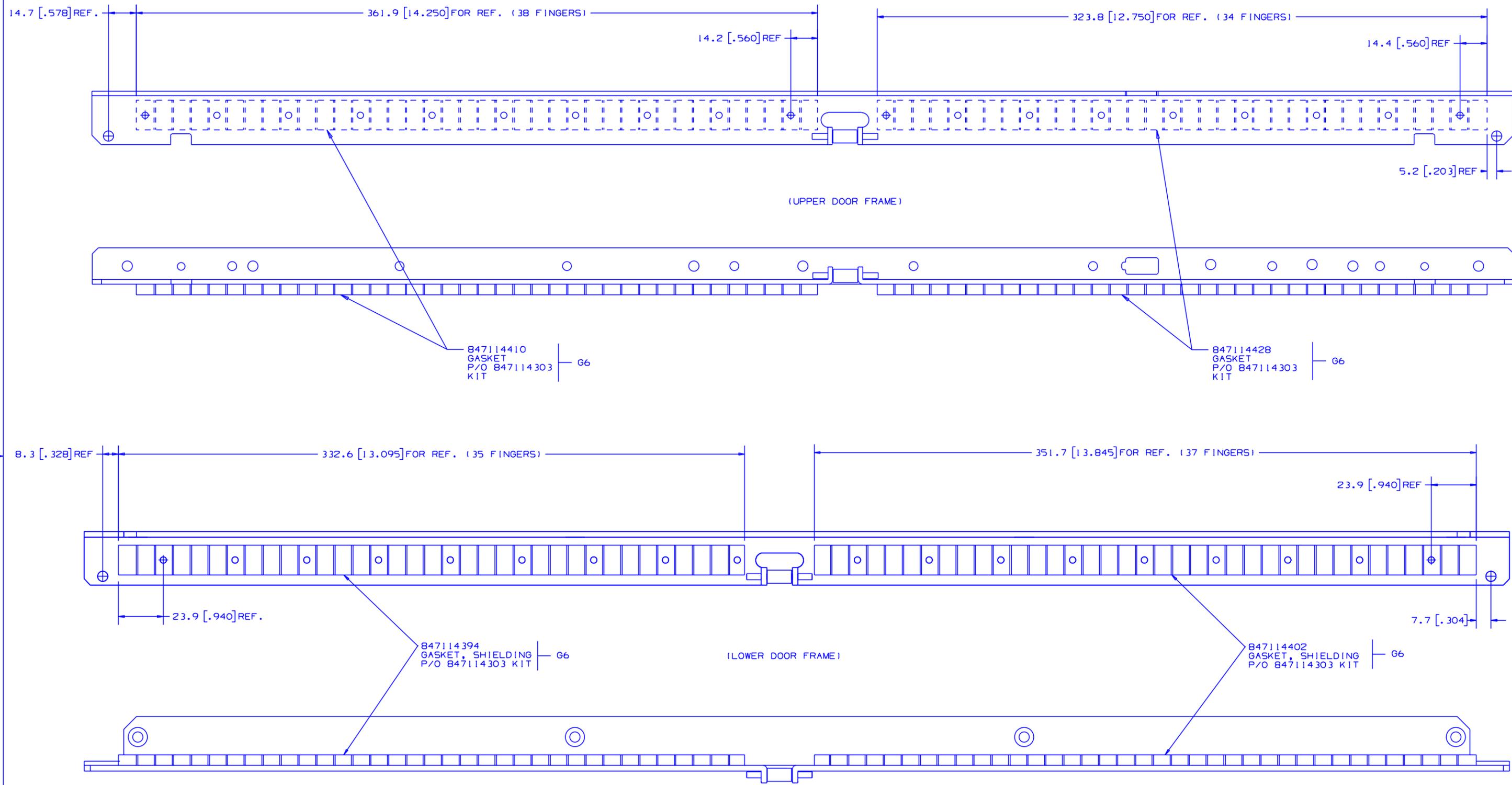


FIG. 6

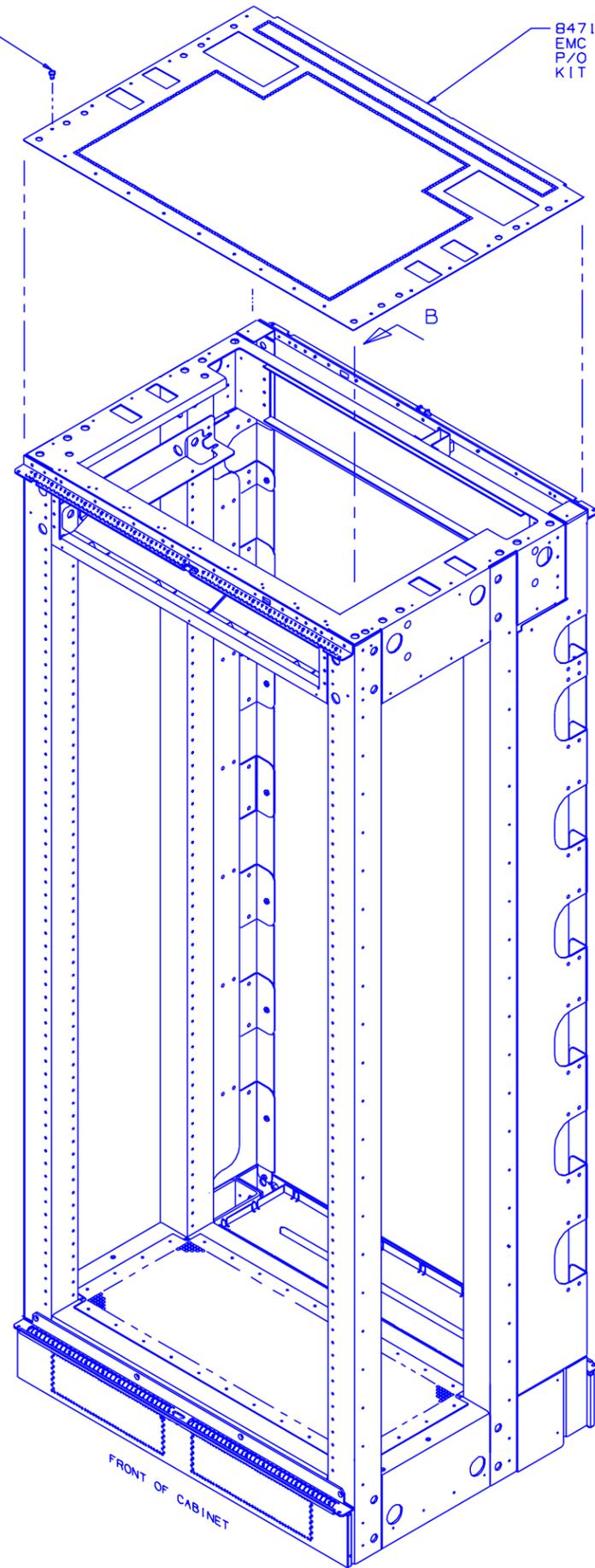
UPPER & LOWER DOOR FRAME GASKETING
(TYPICAL, FRONT & REAR OF CABINET)
(SEE NOTE 12)

SEE PROPRIETARY NOTICE ON SHEET ONE

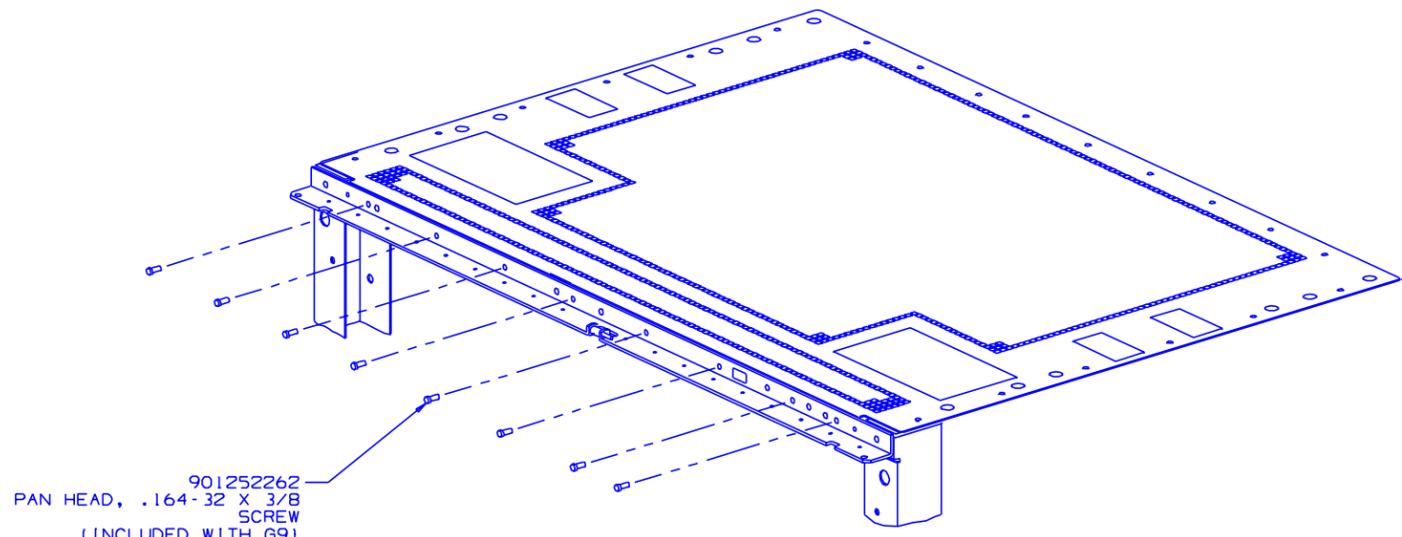
SESS - 2000 SWITCH CABINET EMC TREATMENT		DWG SIZE	ISSUE
		C2	1
AT&T	ED5D744-70	SHEET B6	

G7
 901252262
 PAN HEAD, .164-32 X 3/8
 SCREW
 (29 REQD TO MOUNT SHIELD
 TO FRAME AND BACK OF
 UPPER DOOR FRAME)
 P/O 847257326
 KIT

847153293
 EMC SHIELD
 P/O 847257326
 KIT



B



VIEW B-B

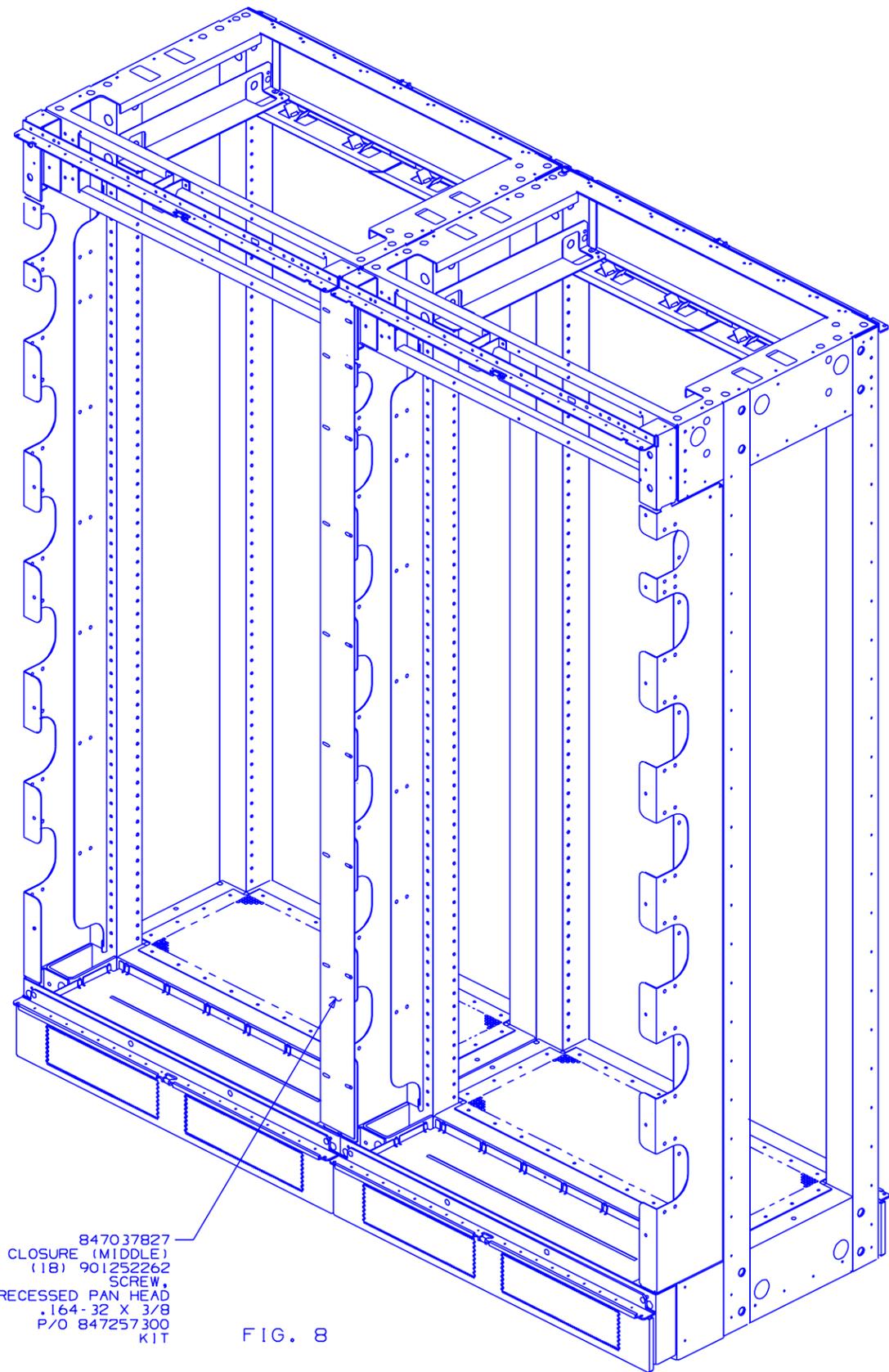
901252262
 PAN HEAD, .164-32 X 3/8
 SCREW
 (INCLUDED WITH G9)

FIG. 7
 (EMC SHIELD)

FRONT OF CABINET

SEE PROPRIETARY NOTICE ON SHEET ONE

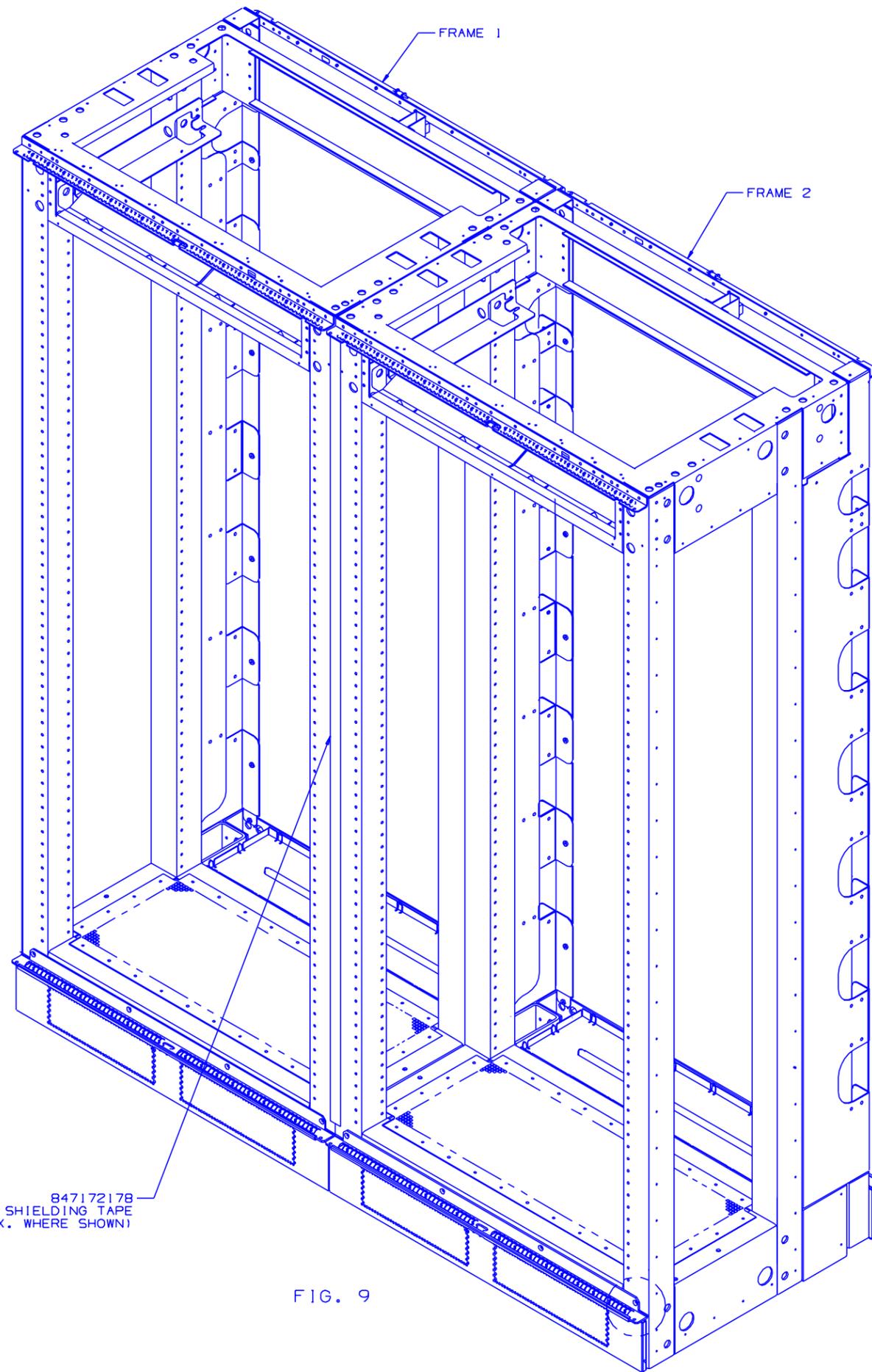
SESS - 2000 SWITCH CABINET EMC TREATMENT		DWG SIZE C2	ISSUE 1
AT&T	ED5D744-70	SHEET B7	



847037827
 PLATE CLOSURE (MIDDLE)
 (18) 901252262
 SCREW,
 SPL, PHL S RECESSED PAN HEAD
 .164-32 X 3/8
 P/O 847257300
 KIT

FIG. 8

SEE PROPRIETARY NOTICE ON SHEET ONE		
5ESS - 2000 SWITCH CABINET EMC TREATMENT	DWG SIZE	ISSUE
	C2	1
AT&T	ED5D744-70	SHEET B8



GB — 847172178
EMI SHIELDING TAPE
(LOCATE APPROX. WHERE SHOWN)

FIG. 9

SEE PROPRIETARY NOTICE ON SHEET ONE		
5ESS - 2000 SWITCH CABINET EMC TREATMENT	DWG SIZE	ISSUE
	C2	1
AT&T	ED5D744-70	SHEET B9
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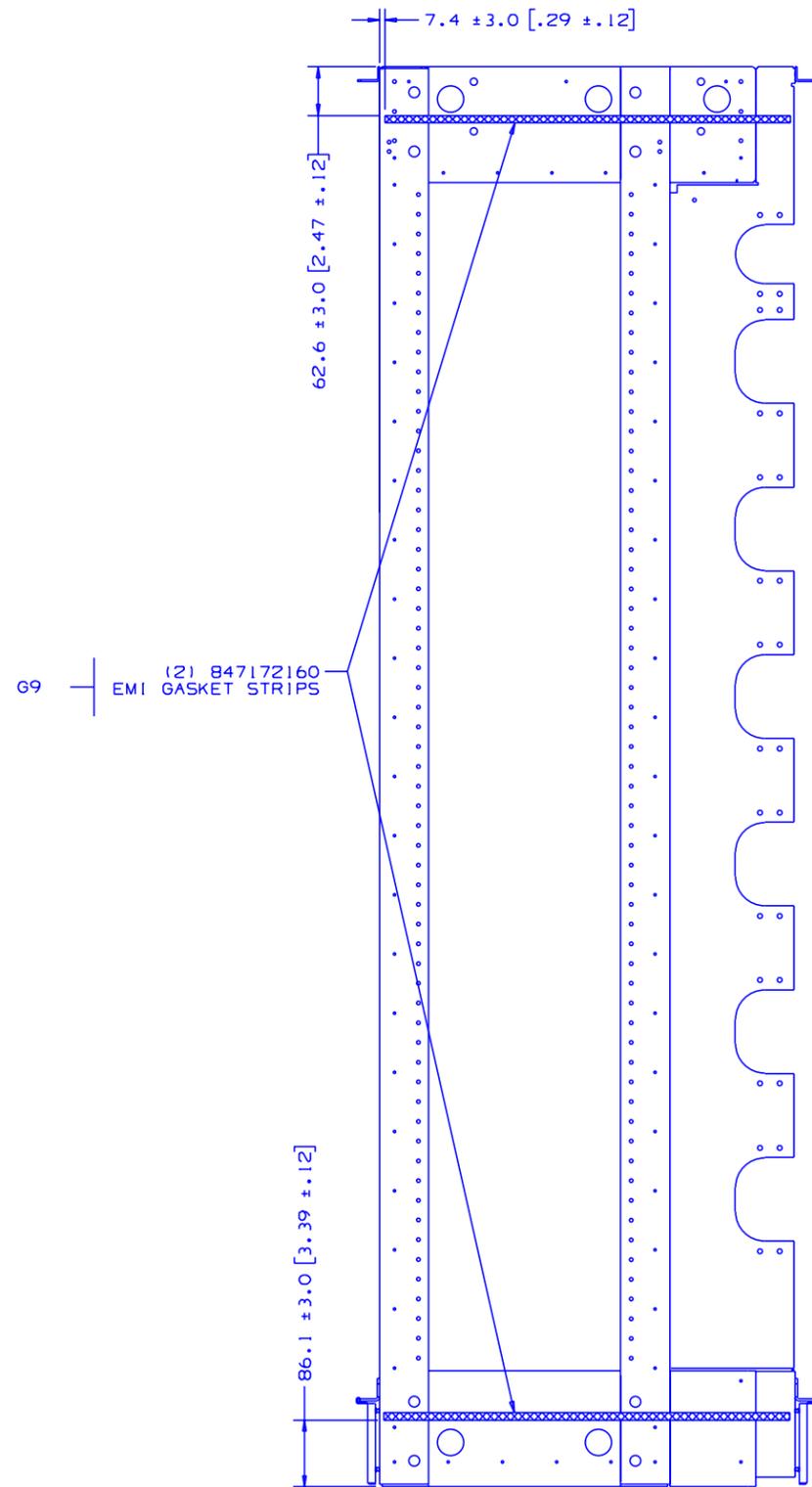


FIG. 10
 SIDE VIEW OF CABINET SHOWING LOCATION
 OF EMC GASKET STRIPS PER G11A
 (REQUIRED WHEN JOB ORDERS SPECIFY EMC
 COMPLIANCE AND CABINETS ARE TO BE
 FACTORY JUNCTIONED -SEE NOTE 57)

SEE PROPRIETARY NOTICE ON SHEET ONE

5ESS - 2000 SWITCH CABINET EMC TREATMENT		DWG SIZE	ISSUE
		C2	1
AT&T	ED5D744 - 70	SHEET B10	

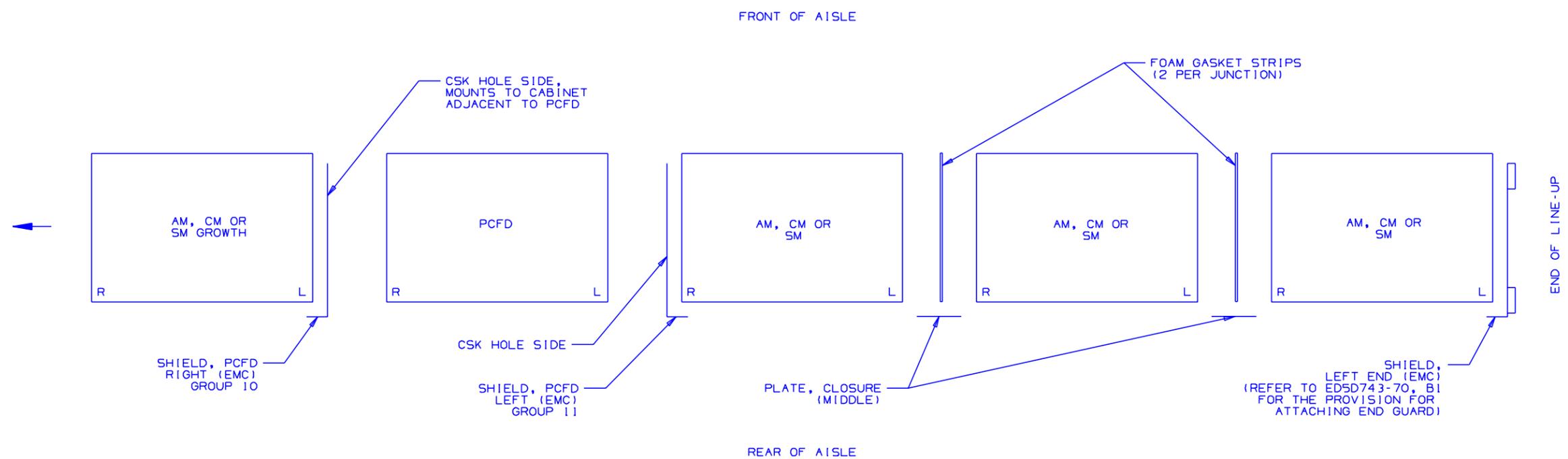


FIG. 11
(SHOWING TYPICAL SHIELD CONFIGURATION)

SEE PROPRIETARY NOTICE ON SHEET ONE		
SESS - 2000 SWITCH CABINET EMC TREATMENT (TYPICAL LINE-UP, EMC)		
DWG SIZE C2	ISSUE 1	
AT&T	ED5D744-70	SHEET B11

