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THIS DOCUMENT IS BEING FURNISHED IN CONFIDENCE BY ACSS, LLC THE INFORMATION DISCLOSED HEREIN FALLS WITHIN EXEMPTION (b) (4) OF 5 USC 552 AND THE PROHIBITIONS OF 18 USC 1905.

REVISONS

CRNO. REV DESCRIPTION

INITIAL RELEASE

2969 E SEE DESCRIPTION PER CHANGE REQUEST. 05-14-01

5204 F SEE DESCRIPTION PER CHANGE REQUEST. 07-09-02

TABLE I

CUT RUN DATA 20

CUT NO.	PWB SIDE	FROM CIRCUIT POINT	TO CIRCUIT POINT
201	B-TOP RIGHT	U3-6 PAD	U3-6 VIA
202	A-MIDDLE RIGHT	R428-TOP LAND	R428-TOP LEFT TRACE

TABLE II

BUSWIRE DATA 21

CONDUCTOR	PWB SIDE	FROM CIRCUIT POINT	TO CIRCUIT POINT
COND NO. ITEM NO.			
601 704	B-BOTTOM LEFT	L5-1	L5-4
602	B-BOTTOM LEFT	L5-2	L5-3
603	B-BOTTOM LEFT	L7-1	L7-4
604	B-BOTTOM LEFT	L7-2	L7-3
605	B-BOTTOM LEFT	L8-1	L8-4
606	B-BOTTOM LEFT	L8-2	L8-3
607	B-MIDDLE CENTER	L9-1	L9-4
608	B-MIDDLE CENTER	L9-2	L9-3
609	B-MIDDLE RIGHT	Q17-2	Q17-3
610	B-MIDDLE RIGHT	Q20-2	Q20-3
611	B-MIDDLE RIGHT	R70-TOP	R70-BOTTOM
612	A-MIDDLE LEFT	R288-TOP	R288-BOTTOM
613	B-TOP RIGHT	R903-LEFT	C19-LEFT
614	B-TOP RIGHT	R903-RIGHT	C19-RIGHT
615	B-TOP RIGHT	R904-TOP	C12-LEFT
616	B-TOP RIGHT	R904-BOTTOM	C12-RIGHT
617 704	B-MIDDLE LEFT	U14-14 LAND	C87-BOTTOM LAND

NOTES:

1. ASSEMBLE PER ITEM 701.

CAUTION

ELECTROSTATIC SENSITIVE EQUIPMENT
SPECIAL HANDLING REQUIRED

THIS ASSEMBLY INCLUDES COMPONENTS WHICH ARE SUBJECT TO DAMAGE BY ELECTROSTATIC CHARGES. THEREFORE, ALL COMPONENTS SHALL BE HANDLED IN ACCORDANCE WITH GUIDELINES FOR ELECTROSTATIC DISCHARGE DAMAGE.

3. COMPONENT LEADS PROTRUSION SHALL BE .060 MAXIMUM, BARE COPPER PERMISSIBLE ON COMPONENT LEADS AT TRIMMED SURFACES.

4. MAXIMUM COMPONENT HEIGHT SIDE B SHALL BE .800, EXCEPT AREA NOTED ON CCA TO BE .550 MAX, AND HEATSINK BAR (ITEM 2) AND ATTACHED COMPONENTS TO BE 1.180 MAX.

5. SECURE C8, C12, C13, C19 - C22, C32, C33, C49, C62, C64, C65, C111, C113, C124, AND CR19 TO PWB (ITEM 1) USING RTV (ITEM 704). HISTORICAL NOTE: SOME CCA's WERE ASSEMBLED USING VHB AND RTV.

6. CONFORMAL COAT CCA PER ITEM 702, EXCEPT AREAS NOTED.

7. SHADED COMPONENTS ARE NOT INSTALLED.

8. REMOVE PINS J1-3, J1-8, AND J4-4 BEFORE INSTALLING.

9. P1 SHALL BE FLUSH TO .010 MAX ABOVE SIDE B OF ITEM 1.

10. INSTALL ITEM 10 IN P1-11 AND P1-52 CONTACTS FROM THIS SIDE.

11. APPLY 5.0±.5 INCH-LBS OF TORQUE TO ITEM 6 AND ITEM 12.

12. SECURE: C6, C7, C9 - C10; C24 - C28 AND C41 - C46; C66 - C69 AND C80; C75 - C77; C90 - C94; C102 - C104, C117, C118 WITH RTV (ITEM 703) ALONG TOP SURFACE OF PART TO ADJACENT PARTS.

13. SECURE C11, L6 AND T1 - T4 TO PWB (ITEM 1) USING RTV (ITEM 703). COMPONENTS ARE TO BE FLUSH TO WITHIN .010 OF PWB (ITEM 1) AND ARE TO BE SECURED AFTER BEING SOLDERED TO THE PWB.

14. SECURE C95, C96, C101, AND C116 TO PWB (ITEM 1) AND TO ADJACENT PART USING RTV (ITEM 703).

15. SECURE L1 TO PWB (ITEM 1) USING RTV (ITEM 703).

16. COMPONENTS CR3, C37, CR8, CR12, Q2, Q3, Q9, Q11, Q15, Q19, Q22, AND Q25 MUST MOUNT FLUSH TO HEATSINK BAR (ITEM 2).

17. MILL .375 WIDE SLOT .180 TOWARDS BOTTOM EDGE OF BOARD. THIS REWORK TO BE DONE PRIOR TO COMPONENT PLACEMENT.

18. C17, C18, AND C141 ARE 1210 SIZE CAPACITORS THAT ARE PLACED ON 1206 PADS.

19. THE POLARITY ON THE PWB SILKSCREEN FOR CR55 IS SHOWN INCORRECTLY. THIS ASSEMBLY DRAWING SHOWS THE CORRECT ORIENTATION.

20. MAKE CUTS PER TABLE I, LEFT OR RIGHT, TOP OR BOTTOM, AS VIEWED FROM INDICATED SIDE.

21. INSTALL BUS WIRES PER TABLE II, LEFT OR RIGHT, TOP OR BOTTOM, AS VIEWED FROM INDICATED SIDE.

22. INSTALL COMPONENTS PER TABLE III, LEFT OR RIGHT, TOP OR BOTTOM, AS VIEWED FROM INDICATED SIDE.

23. INSTALL R900 ON PADS OF C179.

24. INSTALL C900 ON TOP OF U3 PER DETAIL N. USE RTV (ITEM 703) TO SECURE C900 TO U3.

25. SOLDER R901 ON TOP OF C181 AND SOLDER R902 ON TOP OF C199.

26. INSTALL C903 AND R904 APPROXIMATELY AS SHOWN. USE RTV (ITEM 703) TO SECURE COMPONENTS TO PWB.

27. DESOLDER PINS 1 AND 2 OF T1 AND SWAP LEADS. SLEEVE LEAD GOING TO PIN 1 IF NECESSARY.

28. OMIT CONFORMAL COAT (ITEM 702) ON HEATSINK BAR AND ATTACHED COMPONENTS (ITEMS 2 THRU 9, ITEM 12, CR3, CR7, CR8, CR12, Q2, Q3, Q9, Q11, Q15, Q19, Q25 AND Q25) SIDES A AND B.

TABLE III

COMPONENT INSTALLATION DATA 22

REF DES	PIN	TO CIRCUIT POINT	PWB SIDE	SLEEVING ITEM NO.	NOTE
R900	1	C179-1	A-TOP LEFT	NONE	23
	2	C179-2			
C900	1	U3-6-PAD	B-TOP RIGHT	NONE	24
	2	C48-TOP			
R901	1	C181-1	A-TOP LEFT	NONE	25
	2	C181-2			
R902	1	C199-1	A-TOP LEFT	NONE	25
	2	C199-2			
R903	LEFT	C19-LEFT	A-TOP RIGHT	NONE	25
	RIGHT	C19-RIGHT			
R904	TOP	C12-LEFT	A-TOP RIGHT	NONE	25
	BOTTOM	C12-RIGHT			

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES: TOLERANCES: ANGLES ± - 2 PL DEC ± - 3 PL DEC ± -

INTERPRET DIMENSIONS AND TOLERANCES PER AMSE Y14.5M-1994

THIRD ANGLE PROJECTION

CONTRACT

OPERATIONAL NOTE

DRAWN BY BRAD SCHROEDER DATE 07-06-01

CHECKED BY DATE

ORIGINAL C.R.

PRODUCT LINE NO.

AW/PS ANALYSIS EB

REF DWG

REF SPEC

APPLVLS/MFG

APPLVLS/ENG

APPLVLS/QE

APPLVLS/

90000000 90000000

NEXT ASSY USED ON (SYS)

APPLICATION

TITLE

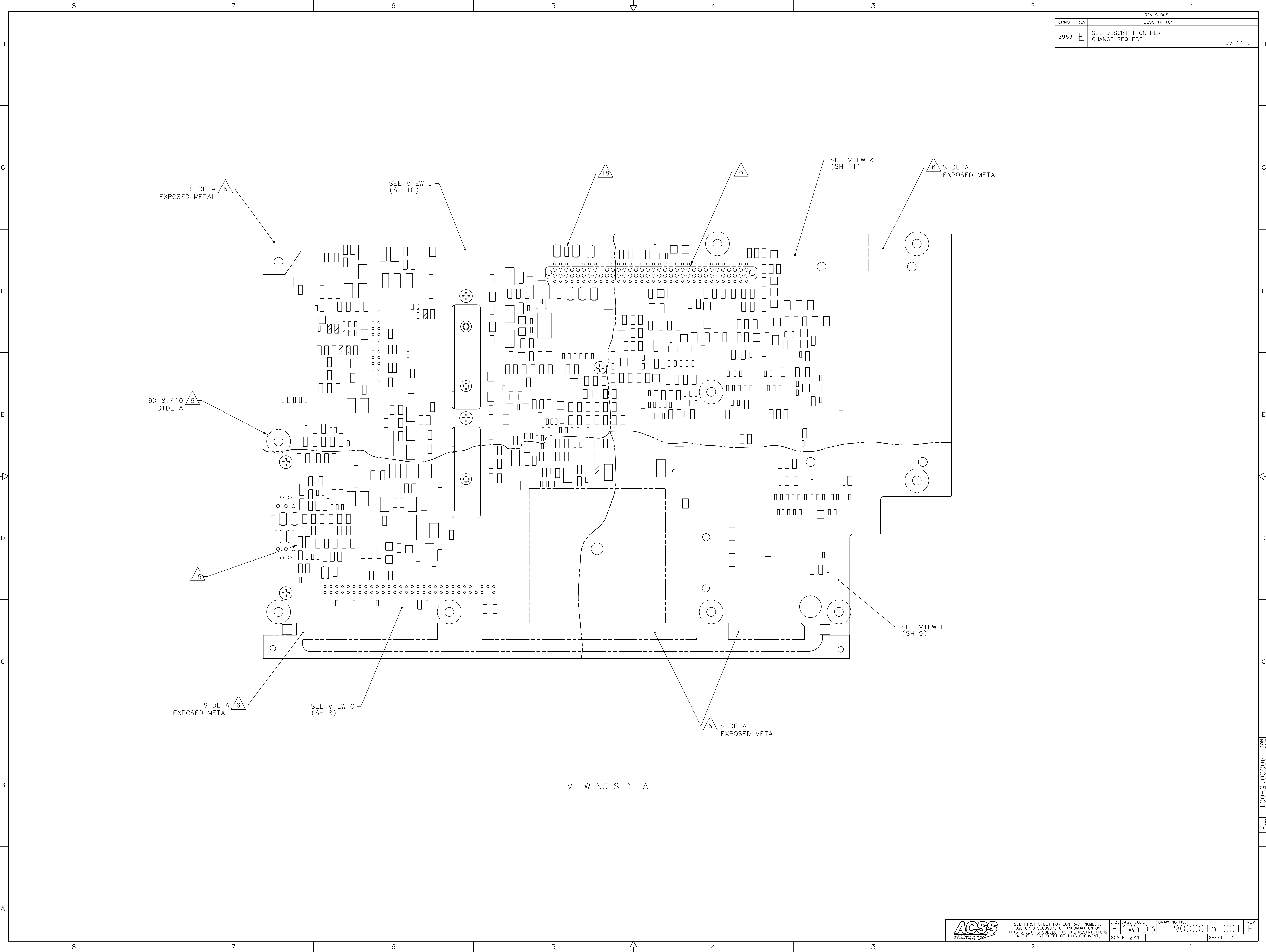
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DRAWING NO. 9000015-001

REV F

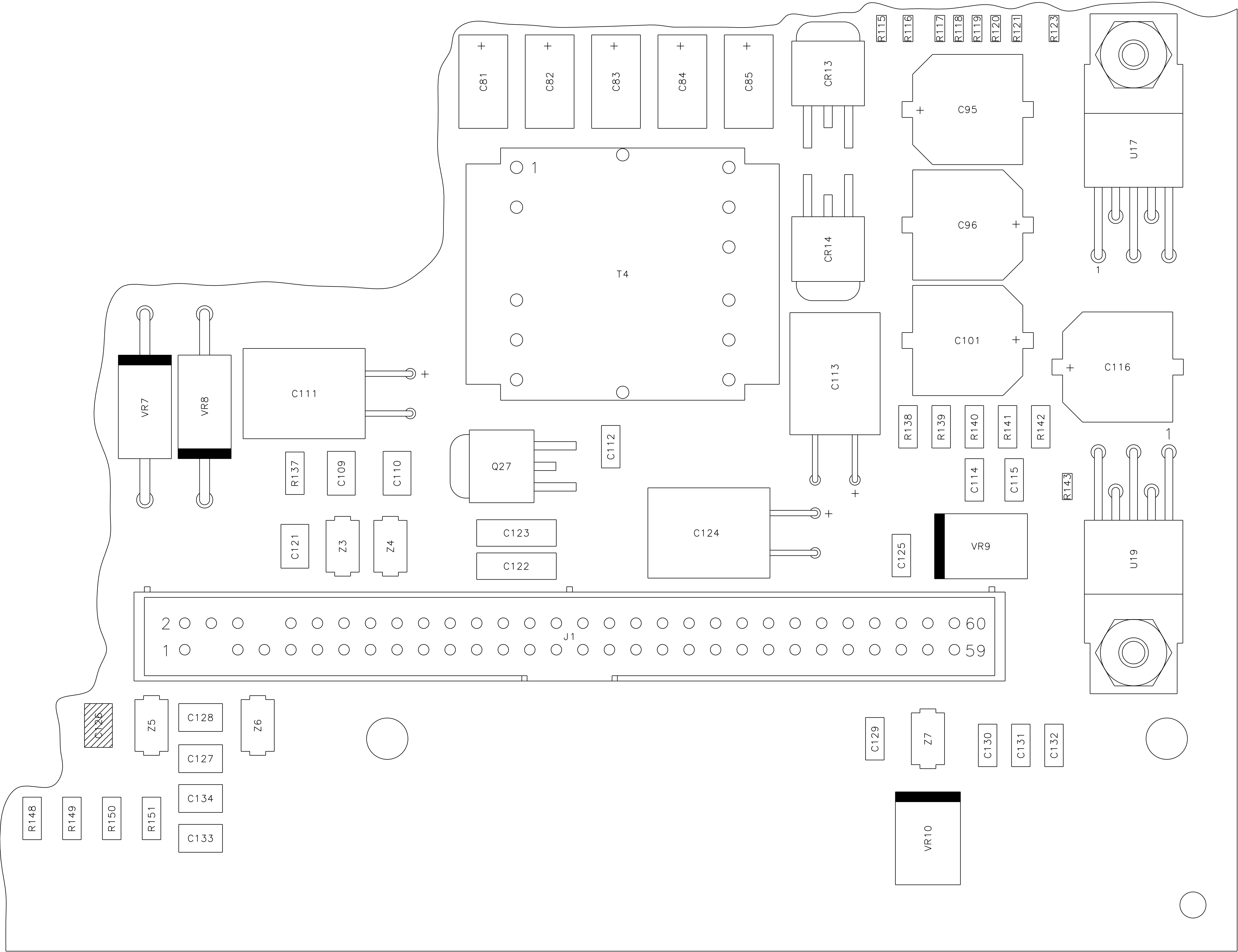
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SHEET 1 OF 32

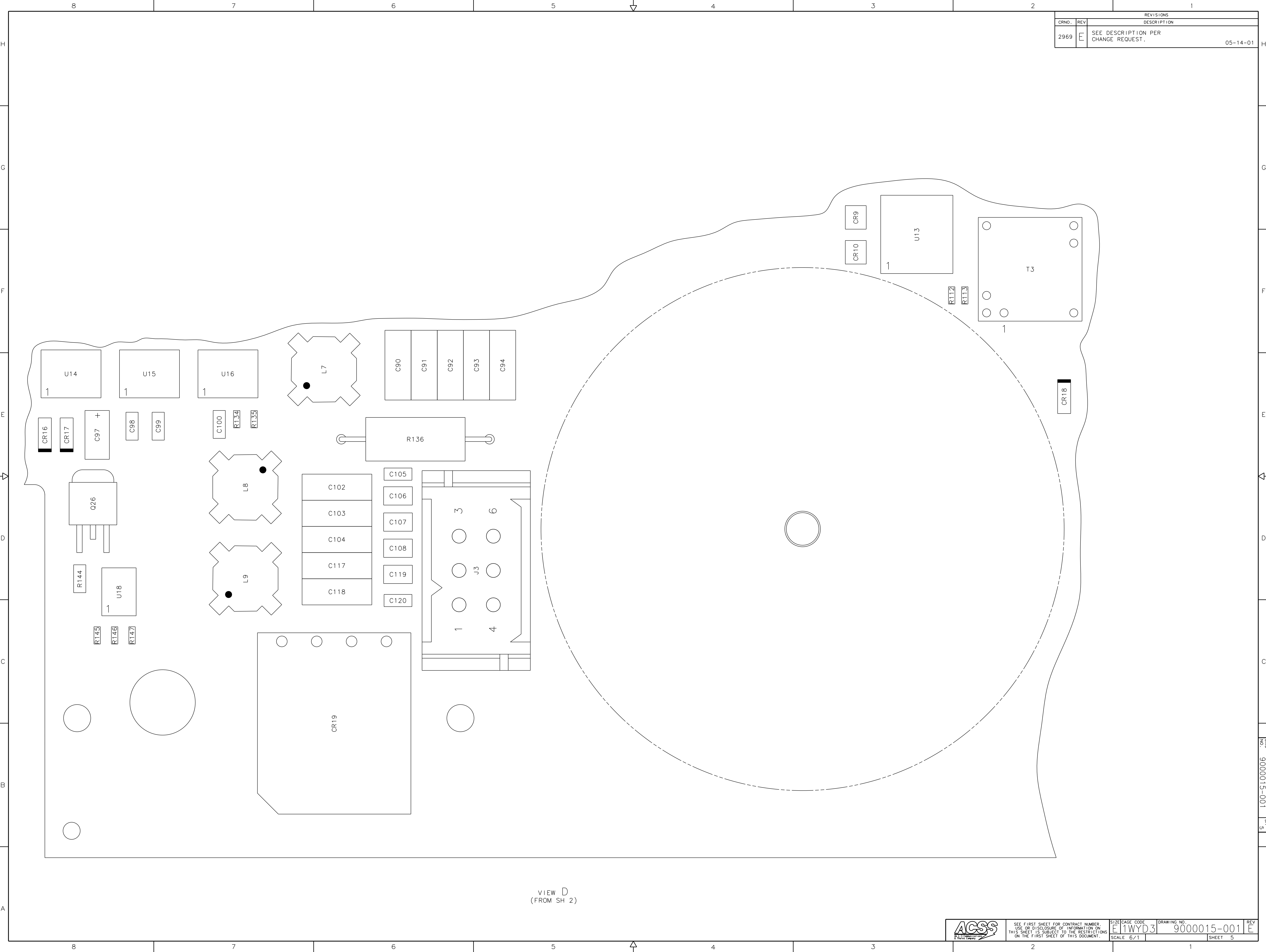


CRNO.		REV		REVISIONS	
				DESCRIPTION	
2969		E		SEE DESCRIPTION PER CHANGE REQUEST.	
				05-14-01	

CRNO.		REV	REVISIONS	
			DESCRIPTION	
2969		E	SEE DESCRIPTION PER CHANGE REQUEST.	05-14-01



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(FROM SH 2)

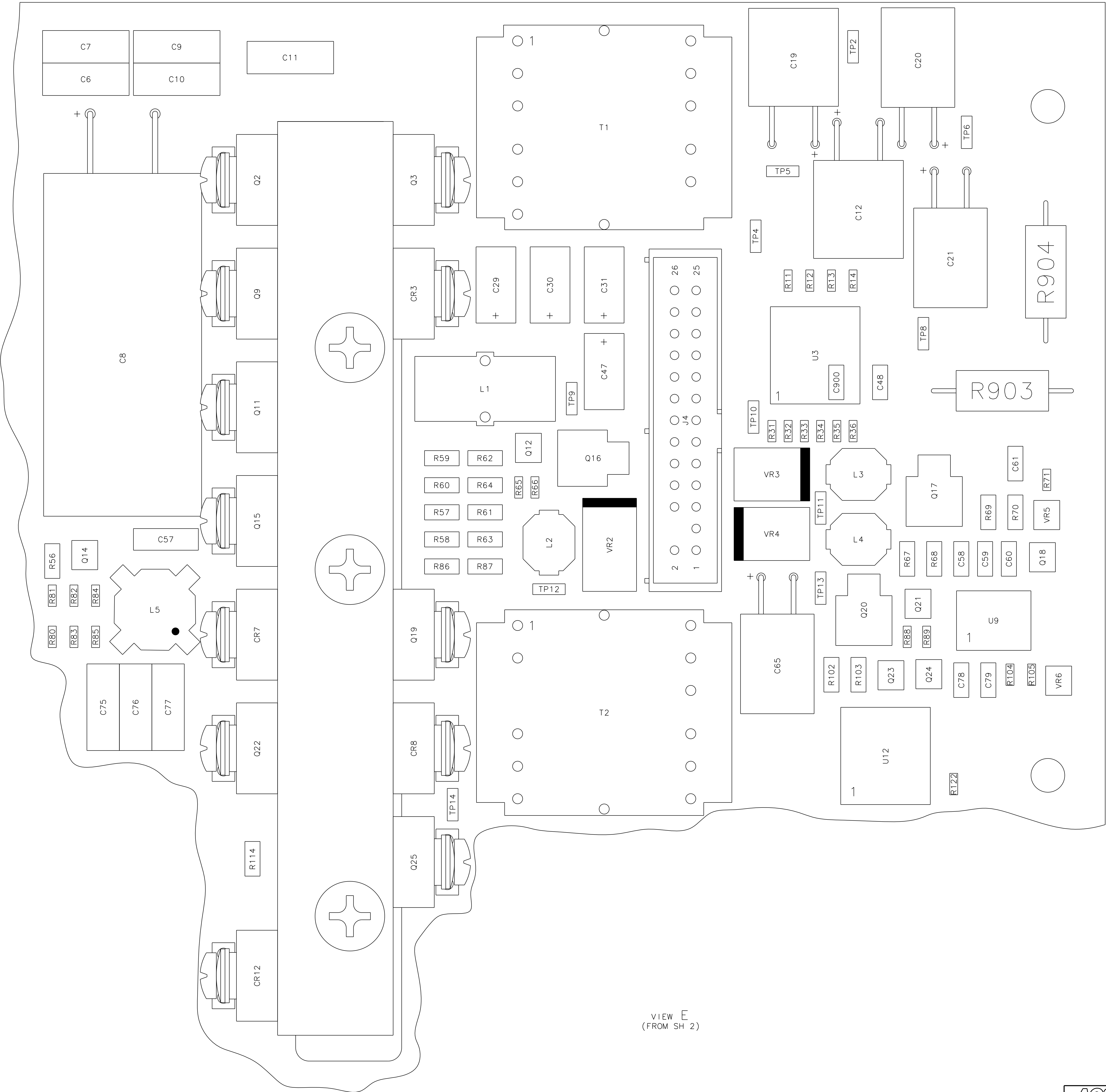


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2969	E	SEE DESCRIPTION PER CHANGE REQUEST.	

05-14-01

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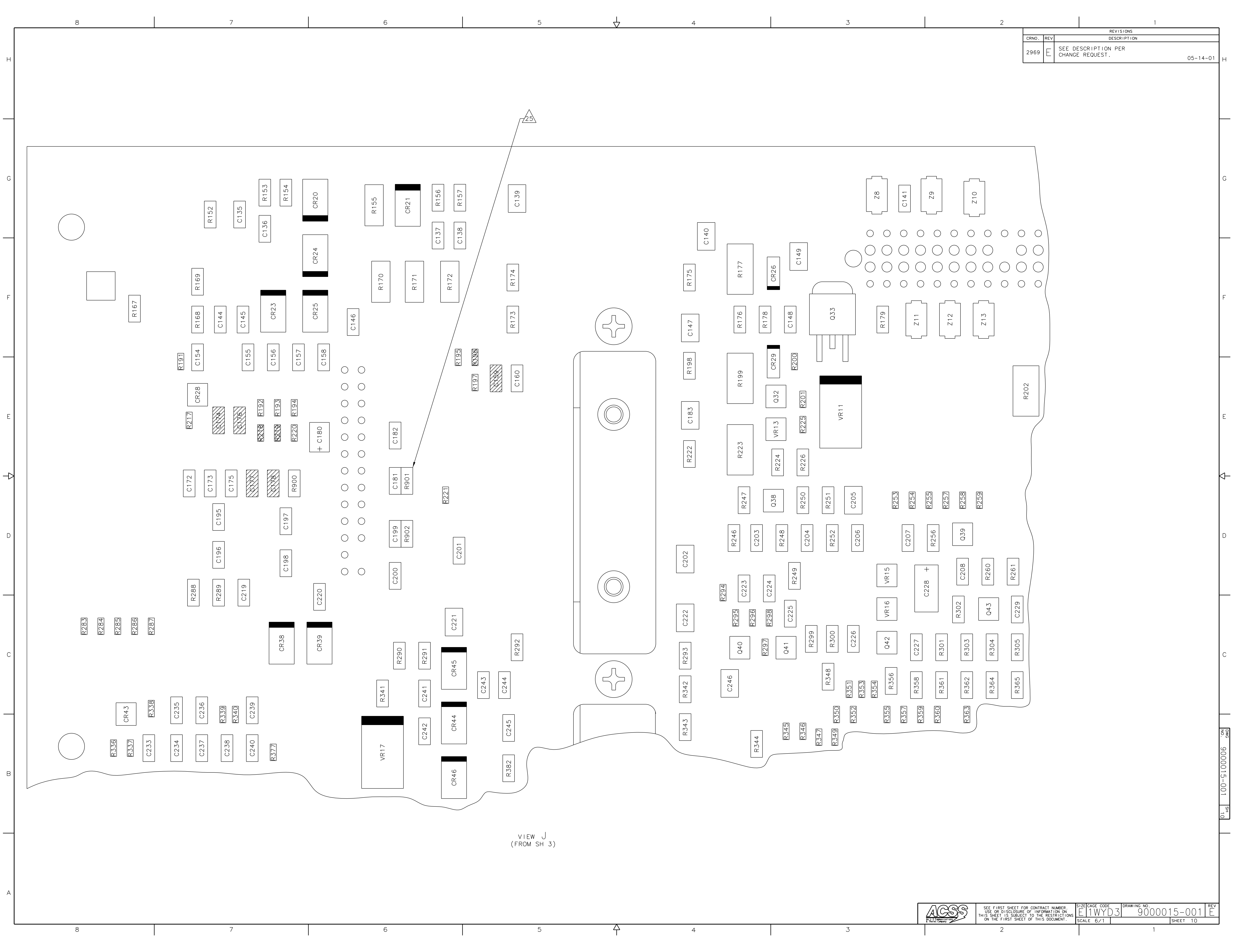
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			DESCRIPTION	
2969		E	SEE DESCRIPTION PER CHANGE REQUEST.	05-14-01



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(FROM SH 2)

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			DESCRIPTION	
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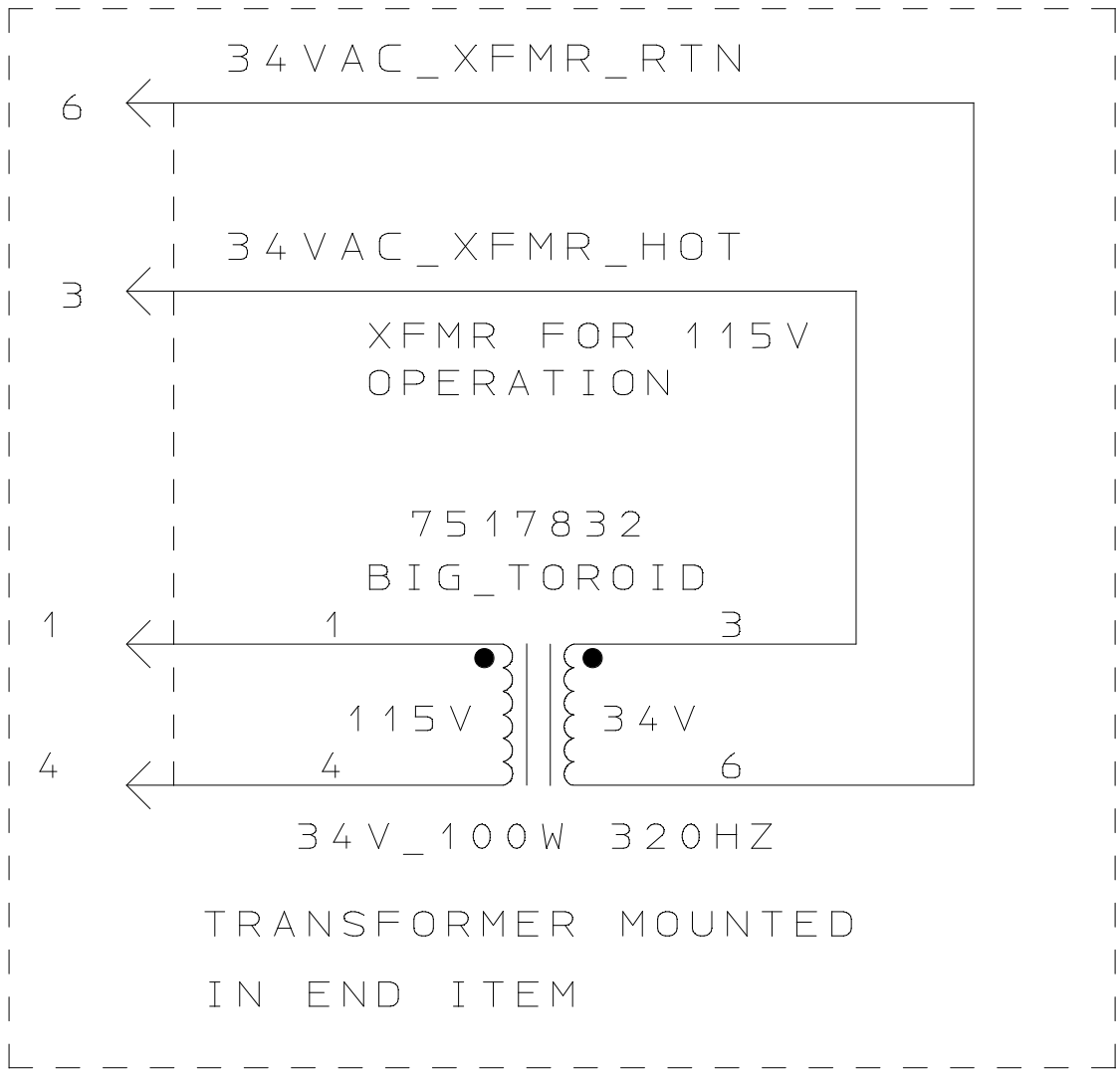
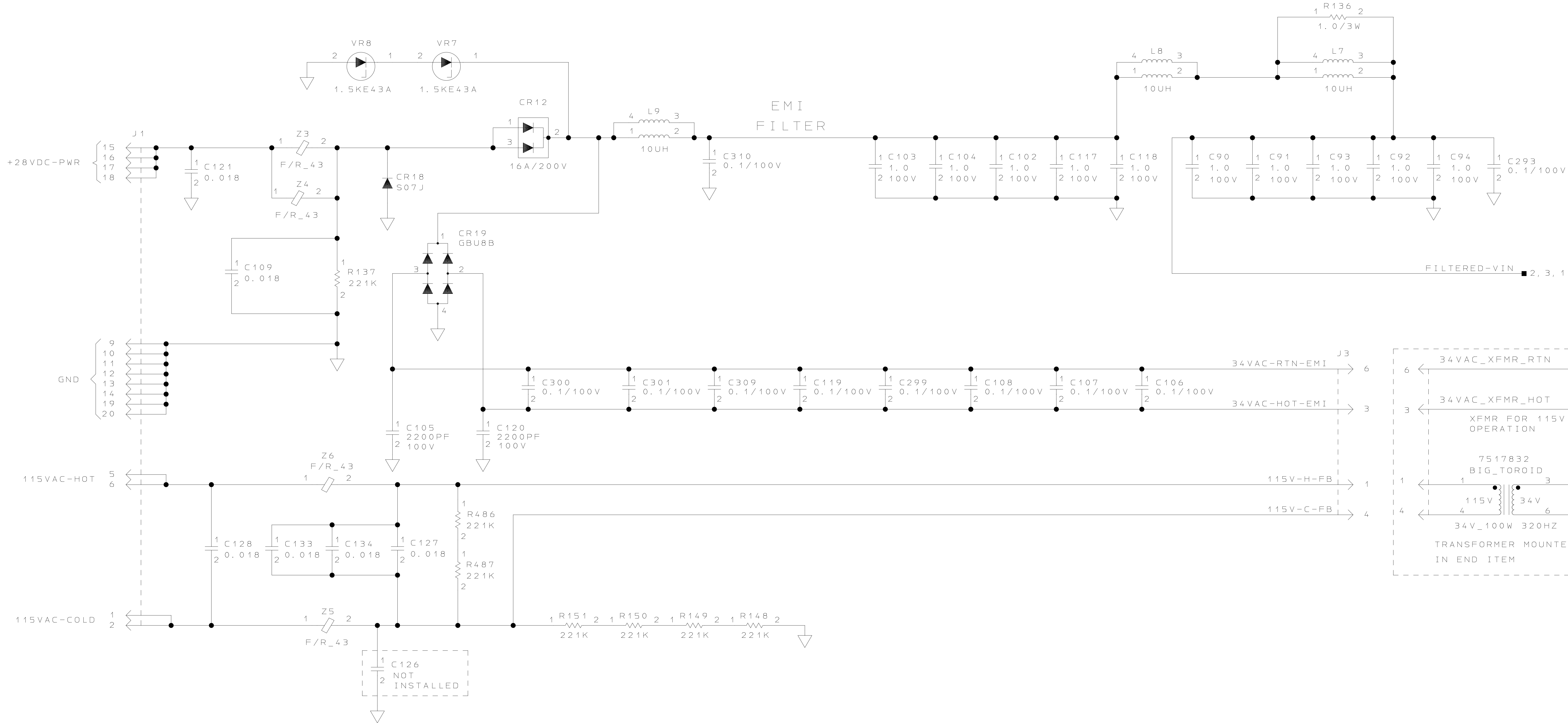




REV		REVISIONS	
CRNO.	REV	DESCRIPTION	
2969	E	SEE DESCRIPTION PER CHANGE REQUEST.	
		05-14-01	

 ACSS Communications & Thales Company	SEE FIRST SHEET FOR CONTRACT NUMBER. USE OR DISCLOSURE OF INFORMATION ON THIS SHEET IS SUBJECT TO THE RESTRICTIONS ON THE FIRST SHEET OF THIS DOCUMENT.	SIZE	CAGE CODE	DRAWING NO.	REV
		E	1WYD3	9000015-001	E
		SCALE 6/1		SHEET 10	

REVISIONS		
CR	REV	DESCRIPTION
2969	E	CHANGED L7 - L9 TO 4 PIN INDUCTORS. 05-14-02
5204	F	CHANGED BORDER. REFORMATTED OLD REVISION BLOCK TO MATCH NEW BORDER. ADDED REV E CR NUMBER. 07-09-02



NOTES:
UNLESS OTHERWISE SPECIFIED:
1. ALL CAPACITANCE VALUES ARE IN MICROFARADS.
2. ALL RESISTANCE VALUES ARE IN OHMS.
3. ALL INDUCTANCE VALUES ARE IN MICROHENRIES.
4. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN;
FOR COMPLETE DESIGNATIONS PREFIX PART
DESIGNATION WITH SUBASSEMBLY DESIGNATION.
5. INTERPRET DRAWING PER ANSI Y32.2-1975 AND
ANSI/IEEE STD 991-1986. LOGIC SYMBOLS
CONFORM TO ANSI/IEEE STD 91-1984.

EMI FILTER AND DIODE BRIDGE
SCHEMATIC DIAGRAM SH NO. 1 OF 20

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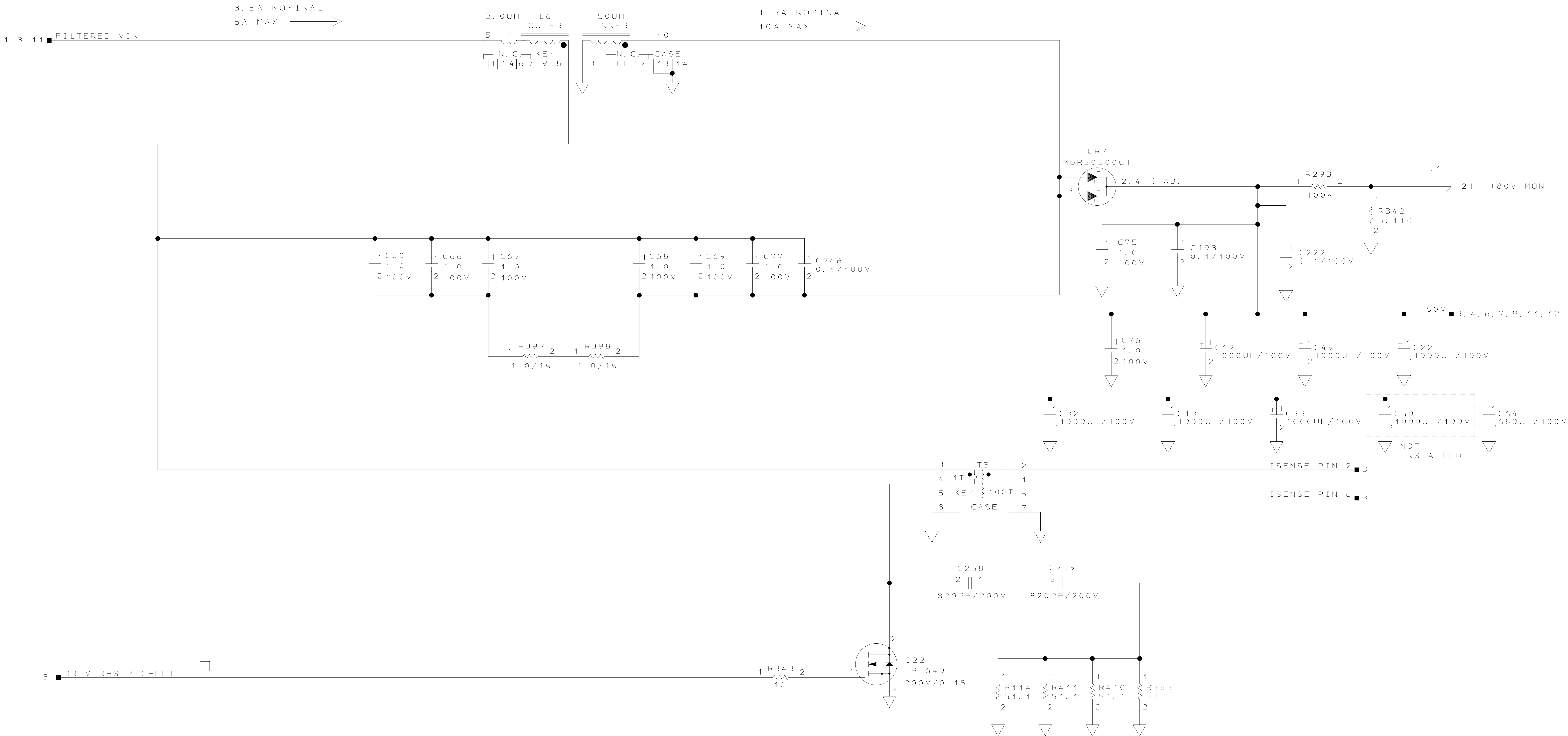
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SIZE	CAGE CODE	DRAWING NO.	REV
E	1WYD3	9000015-001	F
SCALE			SHEET 13

CR		REV		REVISIONS	
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5204		F		CHANGED BORDER.	07-09-02



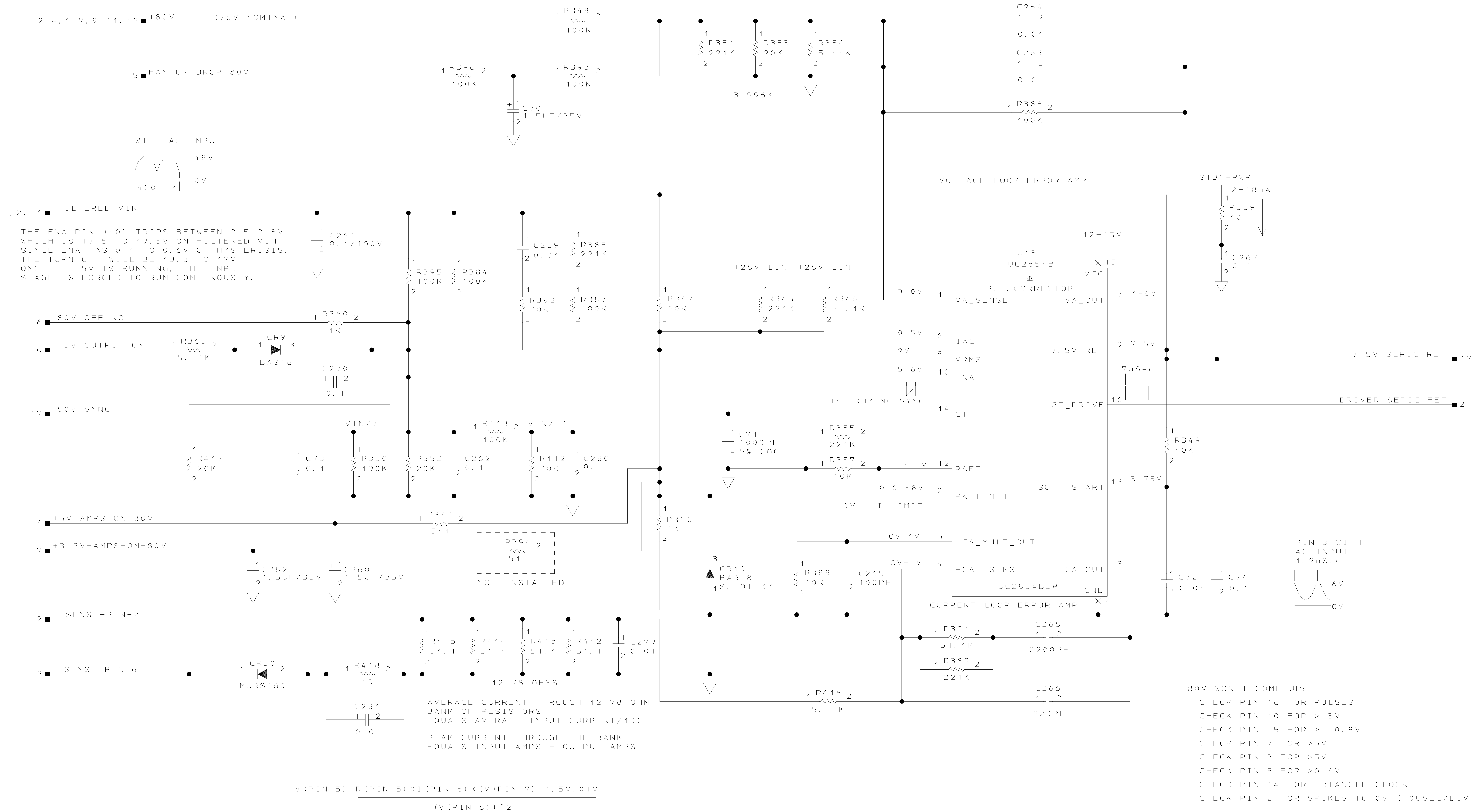
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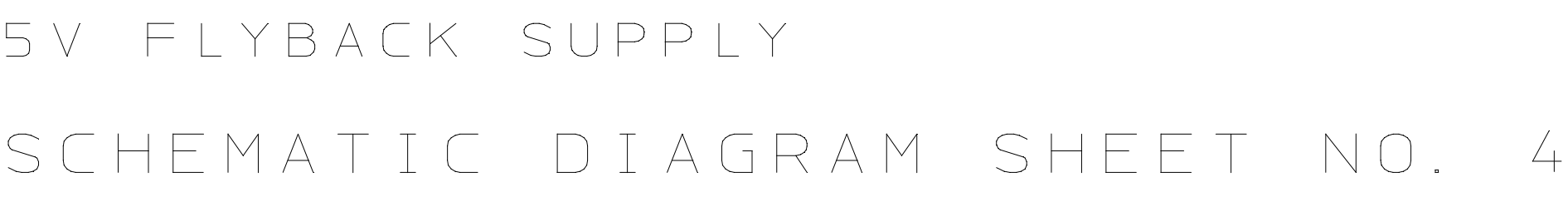
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ACSS	SEE FIRST SHEET FOR CONTRACT NUMBER. USE OR DISCLOSURE OF INFORMATION ON THIS SHEET IS SUBJECT TO THE RESTRICTIONS ON THE FIRST SHEET OF THIS DOCUMENT.	SIZE E 1WYD3	CAGE CODE 9000015-001	DRAWING NO. 14	REV F
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REVISIONS		
CR	REV	DESCRIPTION
2969	E	UNINSTALLED R394. 05-14-02
5204	F	CHANGED BORDER. REFORMATTED OLD REVISION BLOCK TO MATCH NEW BORDER. ADDED REV E CR NUMBER. 07-09-02






 SEE FIRST SHEET FOR CONTRACT NUMBER, SIZE, CAGE CODE, DRAWING NO., REV
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SIZE	CAGE CODE	DRAWING NO.	REV
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SCALE		SHEET 16	