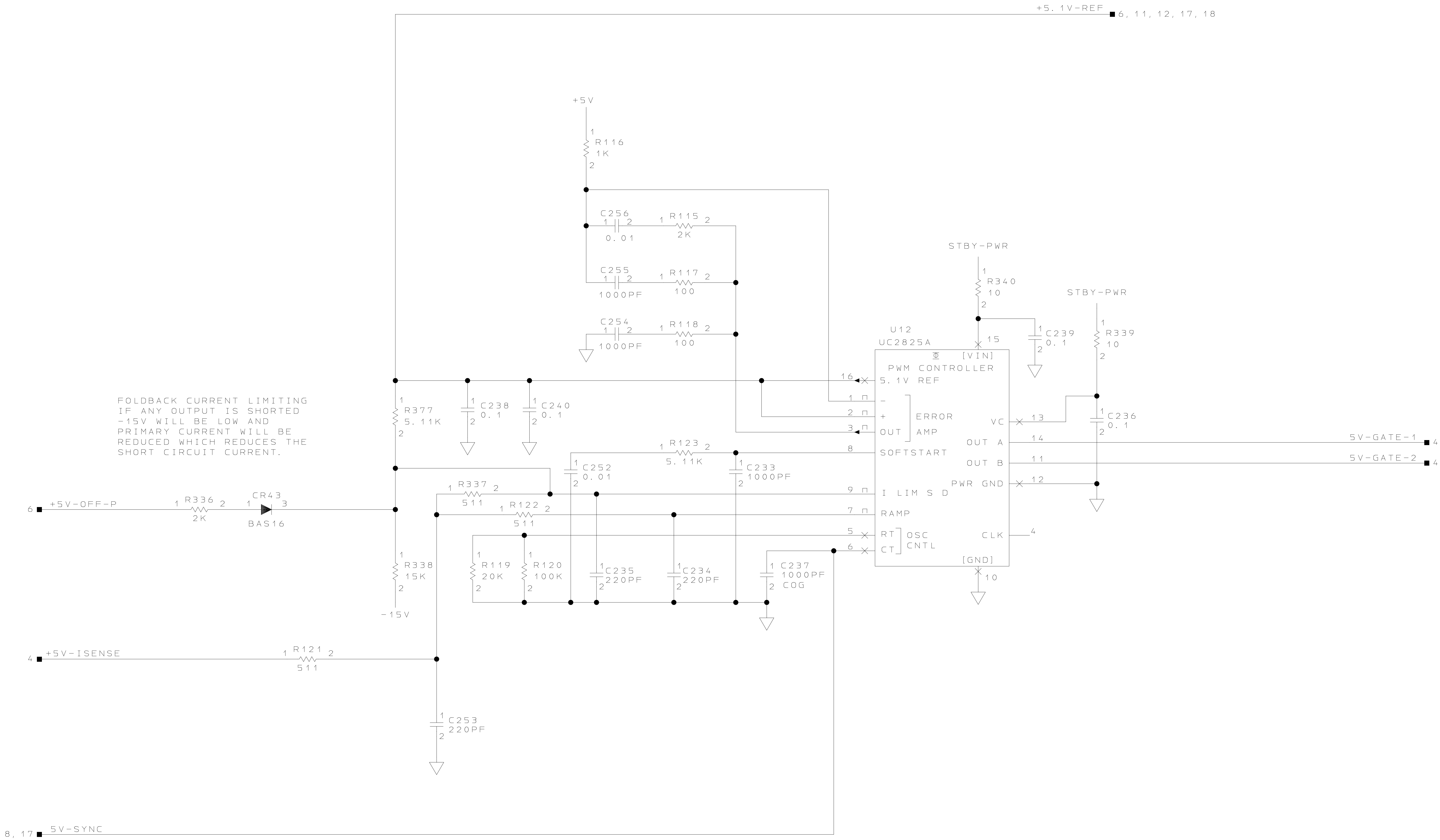


REVISIONS		
CR	REV	DESCRIPTION
5204	F	CHANGED BORDER.

07-09-02

FOLDBACK CURRENT LIMITING
IF ANY OUTPUT IS SHORTED
-15V WILL BE LOW AND
PRIMARY CURRENT WILL BE
REDUCED WHICH REDUCES THE
SHORT CIRCUIT CURRENT.



5V FLYBACK CONTROLLER
SCHEMATIC DIAGRAM SHEET NO. 5

COMPUTER GENERATED

7-3-2002_16:58

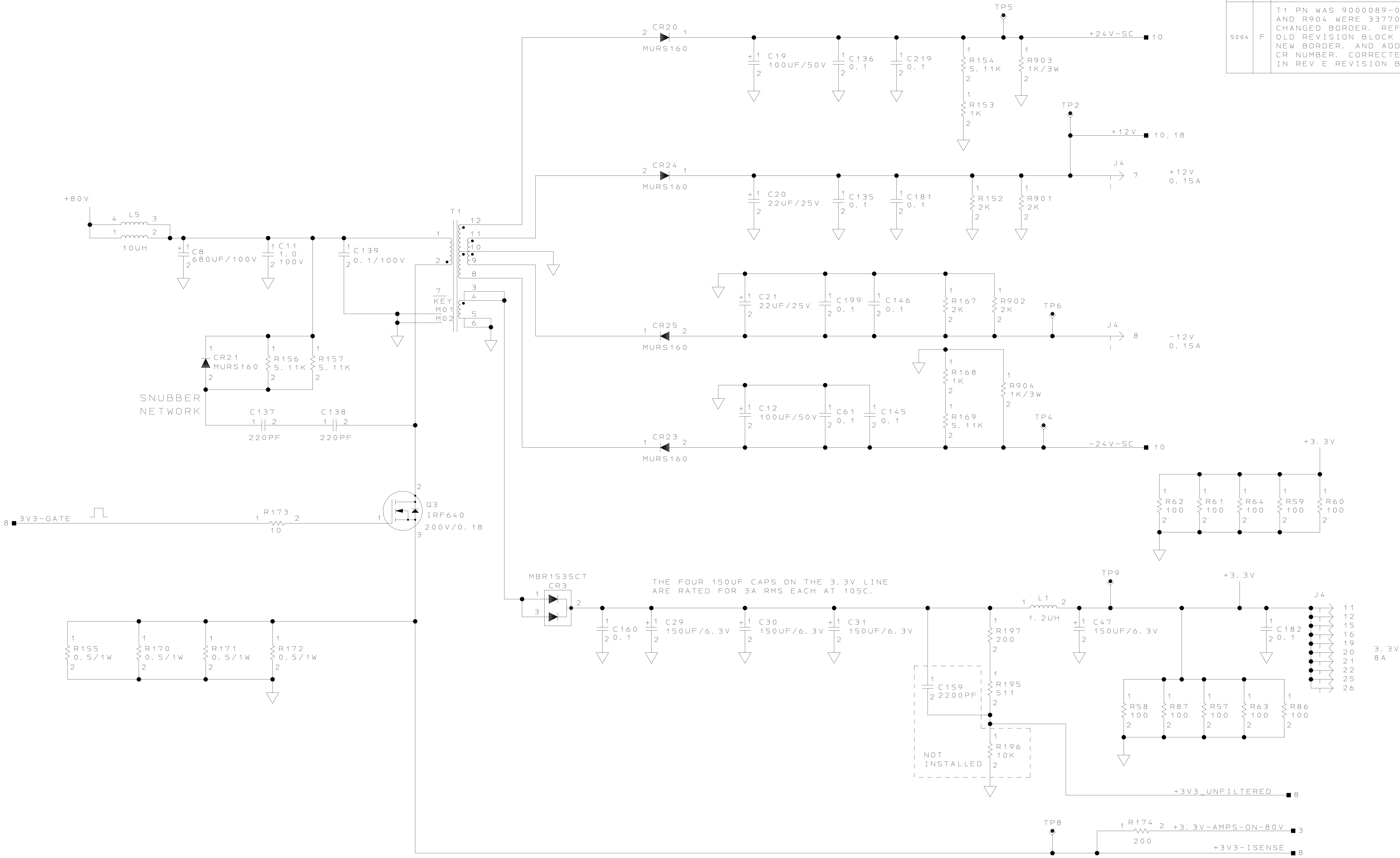


SEE FIRST SHEET FOR CONTRACT NUMBER.
USE OR DISCLOSURE OF INFORMATION ON
THIS SHEET IS SUBJECT TO THE RESTRICTIONS
ON THE FIRST SHEET OF THIS DOCUMENT.

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

SCALE	SHEET
1	17

REV		REVISIONS	
CR	REV	DESCRIPTION	
2969	E	CHANGED L5 TO A 4 PIN INDUCTORS. INDUCTORS. CHANGED / ADDED T1 POLARITIES. ADDED R901 - R904. C12 AND C19 WERE 22UF/30V. UNINSTALLED C159.	
5204	F	T1 PN WAS 9000089-001. R903 AND R904 WERE 337708-97, 1K. CHANGED BORDER. REFORMATTED OLD REVISION BLOCK TO MATCH NEW BORDER. AND ADDED REV E CR NUMBER. CORRECTED GRAMMAR IN REV E REVISION BLOCK.	

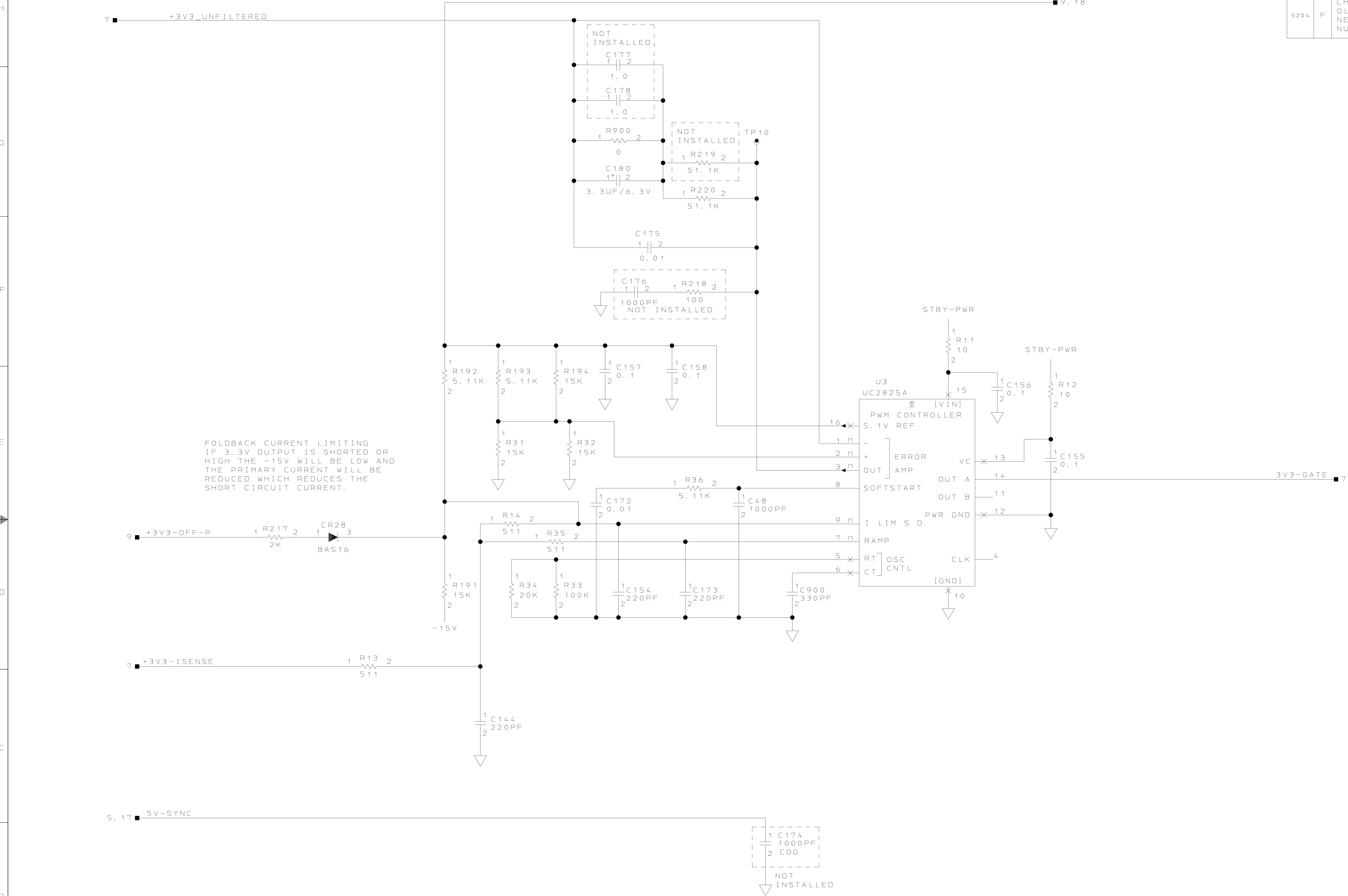


3.3V FLYBACK SUPPLY
SCHEMATIC DIAGRAM SHEET NO. 7

COMPUTER GENERATED

7-3-2002_16: 58	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. 9000015-001	REV F
SCALE		SHEET 19		DATE/TIME		

REVISIONS		
CR	REV	DESCRIPTION
2969	E	UNINSTALLED C174 AND R219, AND INSTALLED C900 AND R900. 05-14-02
5204	F	CHANGED BORDER. REFORMATTED OLD REVISION BLOCK TO MATCH NEW BORDER. ADDED REV E CR NUMBER. 07-09-02

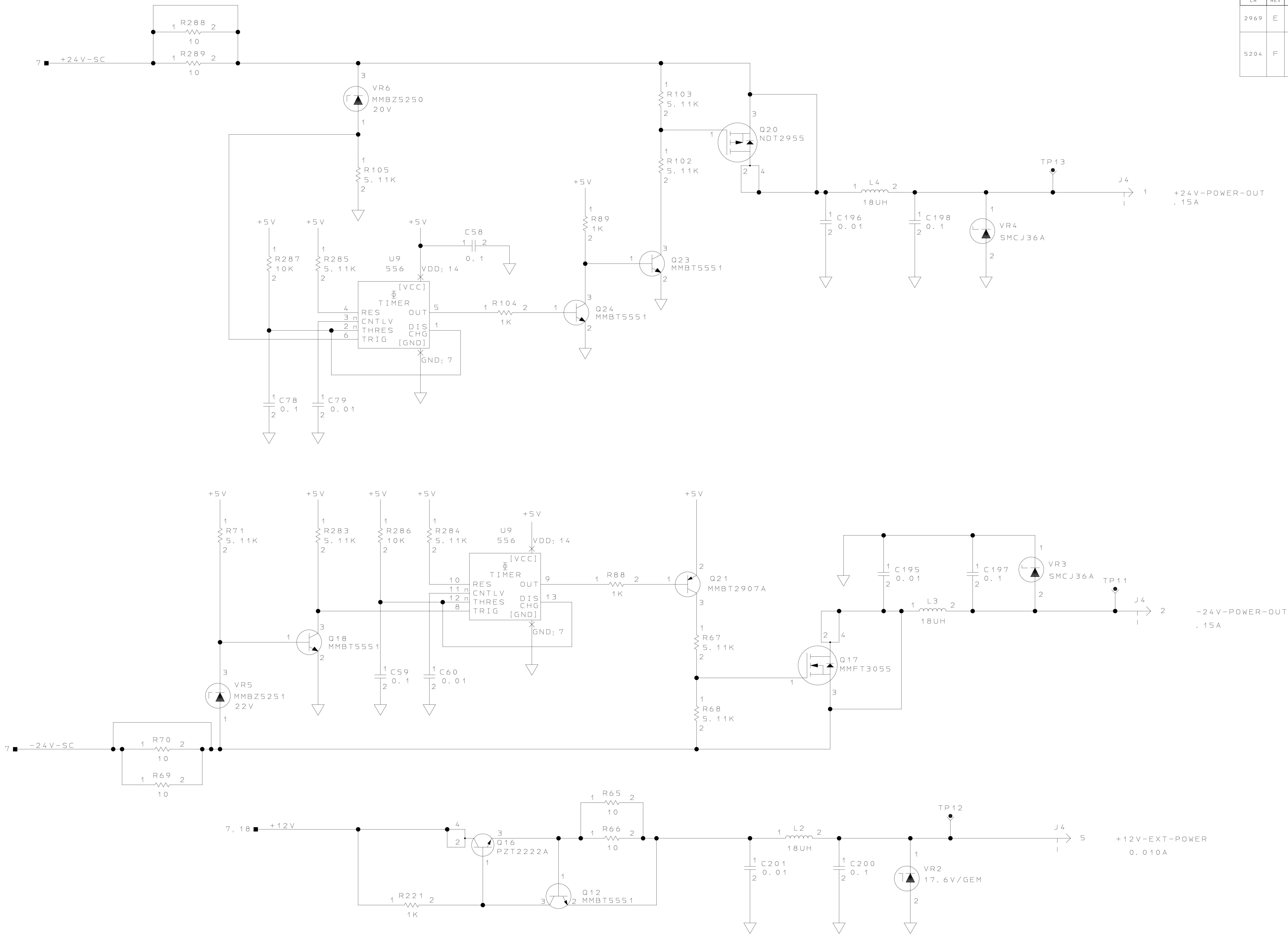


3.3V FLYBACK CONTROLLER
SCHEMATIC DIAGRAM SHEET NO. 8

COMPUTER GENERATED

7-3-2002_16:01				REV	
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	1WYD3
DRAWING NO.		9000015-001		REV	
SCALE		1		SHEET 20	

REVISIONS		
CR	REV	DESCRIPTION
2969	E	ADDED JUMPERS ACROSS Q17, Q20, R70, AND R288. 05-14-02
5204	F	CHANGED BORDER. REFORMATTED OLD REVISION BLOCK TO MATCH NEW BORDER. ADDED REV E CR NUMBER. 07-09-02



+/-24V AND +12V-EXT-POWER SHORT
CIRCUIT PROTECTION

SCHEMATIC DIAGRAM SHEET NO. 10

COMPUTER GENERATED

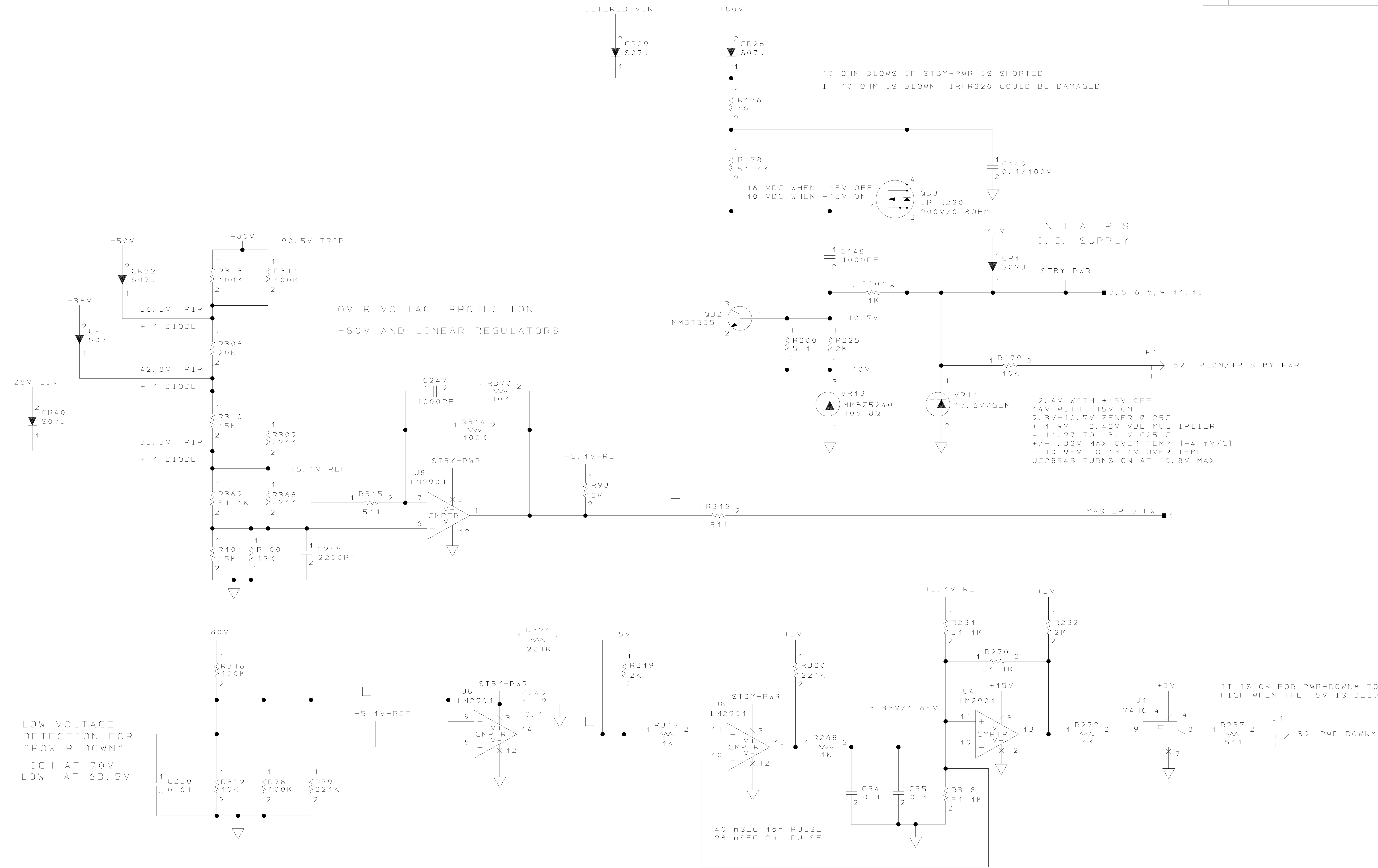
7-18-2002_17:22

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SCALE	SHEET 22
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REVIEWS		
CR	REV	DESCRIPTION
5204	F	CHANGED BORDER.

07-09-02



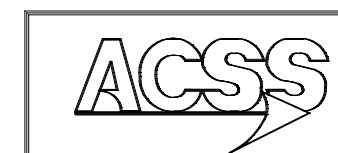
FOR THE 50V LINEAR TO OPERATE, WE NEED 13V HEAD ROOM IGNORING THE CAP'S ESR
 $50V + 13V = 63V$

FOR HOLD UP WE NEED TO SUPPORT 40W OUTPUT (5W GETS TURNED OFF).
 $SQRT(40W/0.75 \times 0.20sec \times 2/(3 \times 1800 \mu F) + 25V^2) = 65.4V$
 $65.4V \times 1.04 TOL = 68V$
 $100K \times 5.1V / (68V - 5.1) = 8.108K$

POWER UP / POWER DOWN LOGIC
 SCHEMATIC DIAGRAM SHEET NO. 11

COMPUTER GENERATED

7-3-2002_16:09

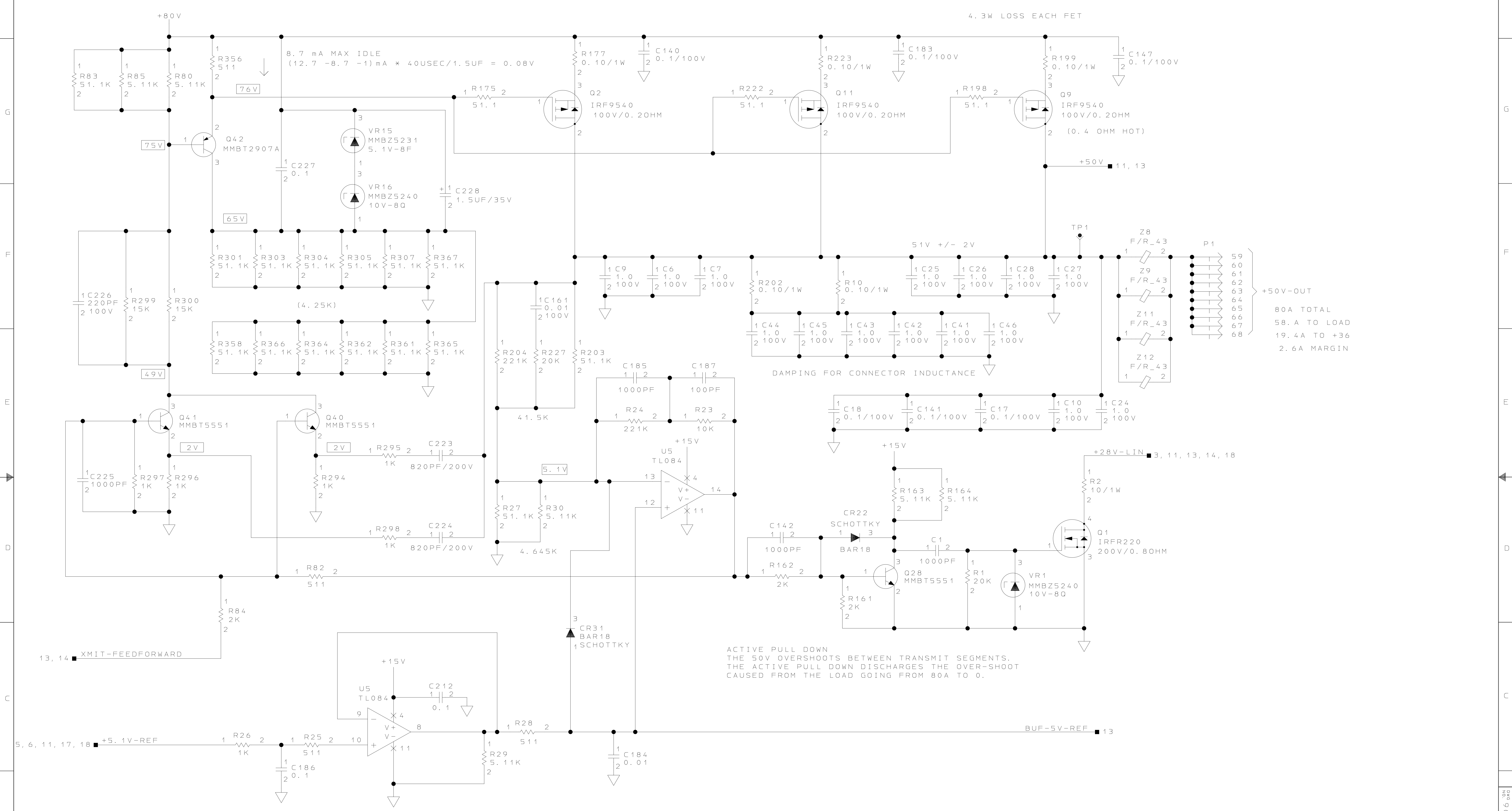


SEE FIRST SHEET FOR CONTRACT NUMBER.
 USE OR DISCLOSURE OF INFORMATION ON
 THIS SHEET IS SUBJECT TO THE RESTRICTIONS
 ON THE FIRST SHEET OF THIS DOCUMENT.

SIZE	CAGE CODE	DRAWING NO.	REV
E	1WYD3	9000015-001	F
SCALE			SHEET 23

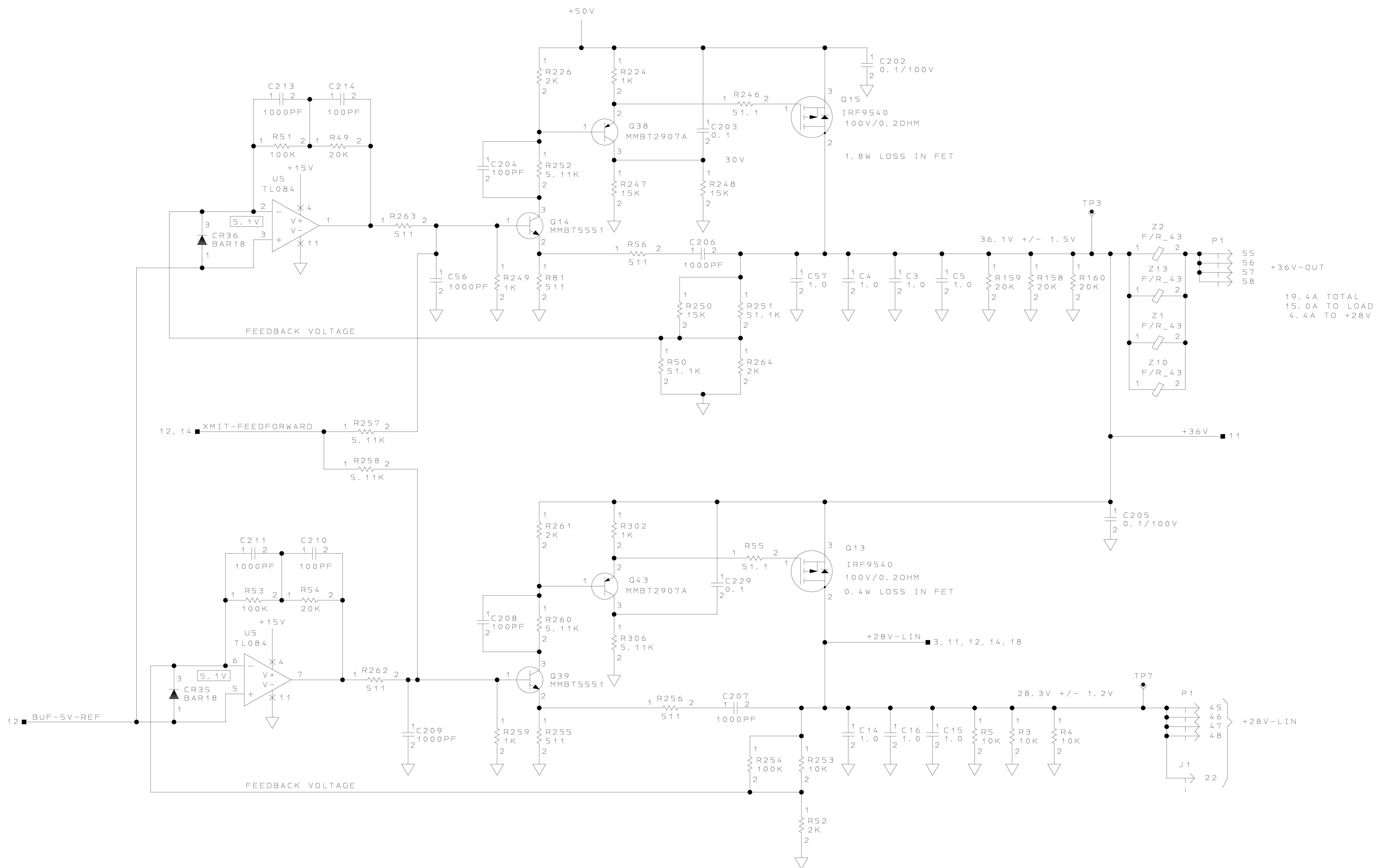
REVISIONS		
CR	REV	DESCRIPTION
5204	F	CHANGED BORDER.

07-09-02



REVISIONS		
CR	REV	DESCRIPTION
5204	F	CHANGED BORDER.

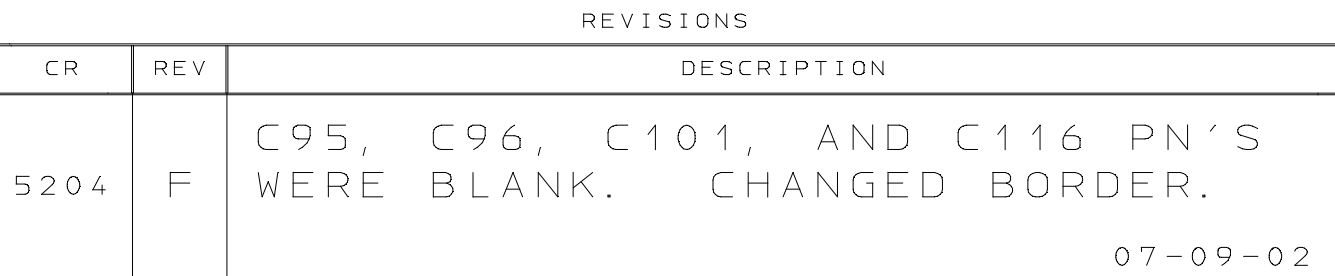
07-09-02



FAST +36V AND +28V LINEAR REGULATORS
SCHEMATIC DIAGRAM SHEET NO. 13

COMPUTER GENERATED

7-3-2002_16:09		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	CAGE CODE 1WYD3	DRAWING NO. 9000015-001	REV F
SCALE		SHEET 25					



COMPUTER GENERATED

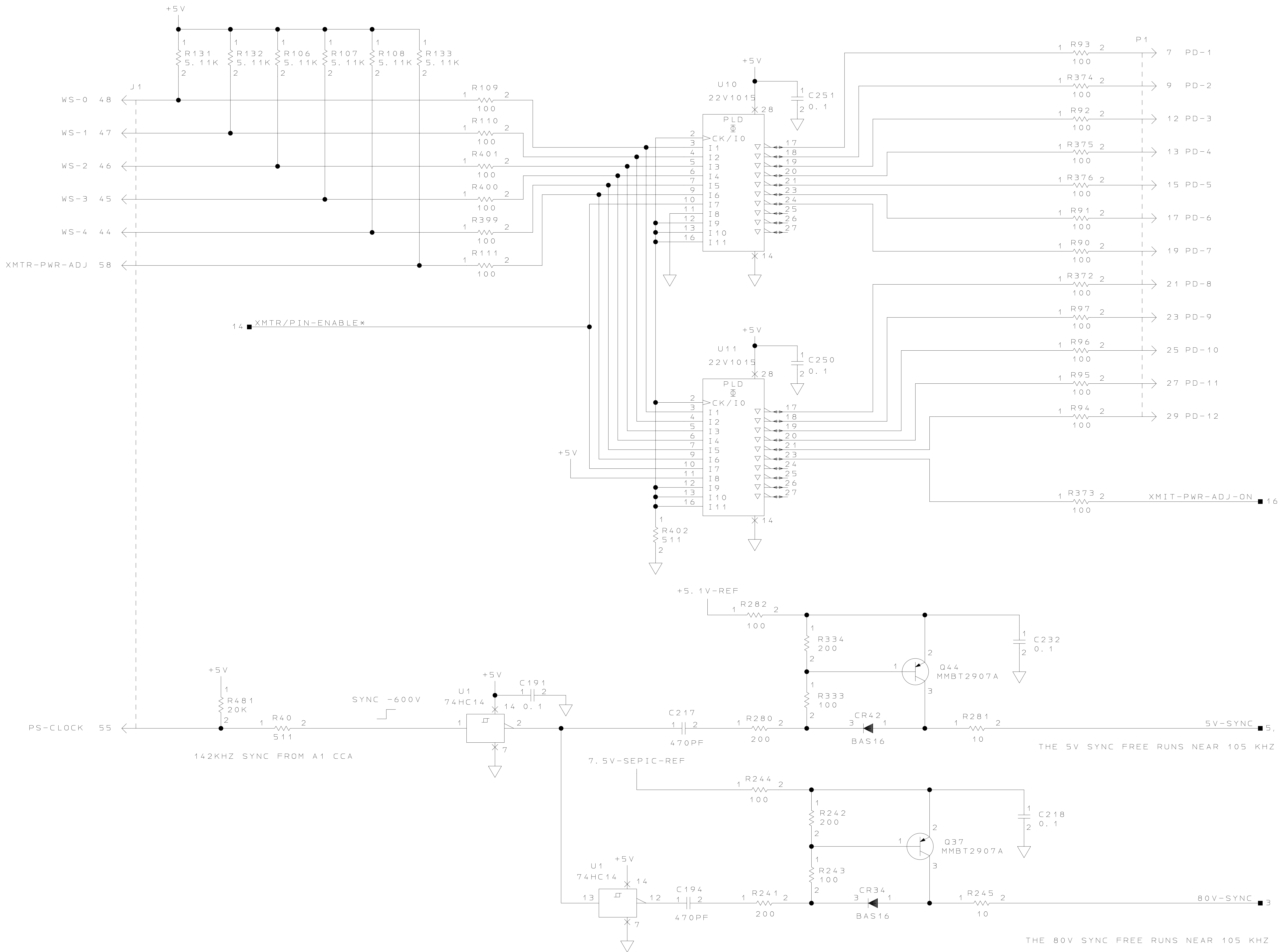
7-3-2002_16:26

SEE FIRST SHEET FOR CONTRACT NUMBER.
USE OR DISCLOSURE OF INFORMATION ON
THIS SHEET IS SUBJECT TO THE RESTRICTION
ON THE FIRST SHEET OF THIS DOCUMENT.

SIZE E	CAGE CODE 1WYD3	DRAWING NO. 9000015-001
SCALE —		SHEET 27

DATE	10-01-15	27	DATE TIME	REV E-60
NO.	900001			

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



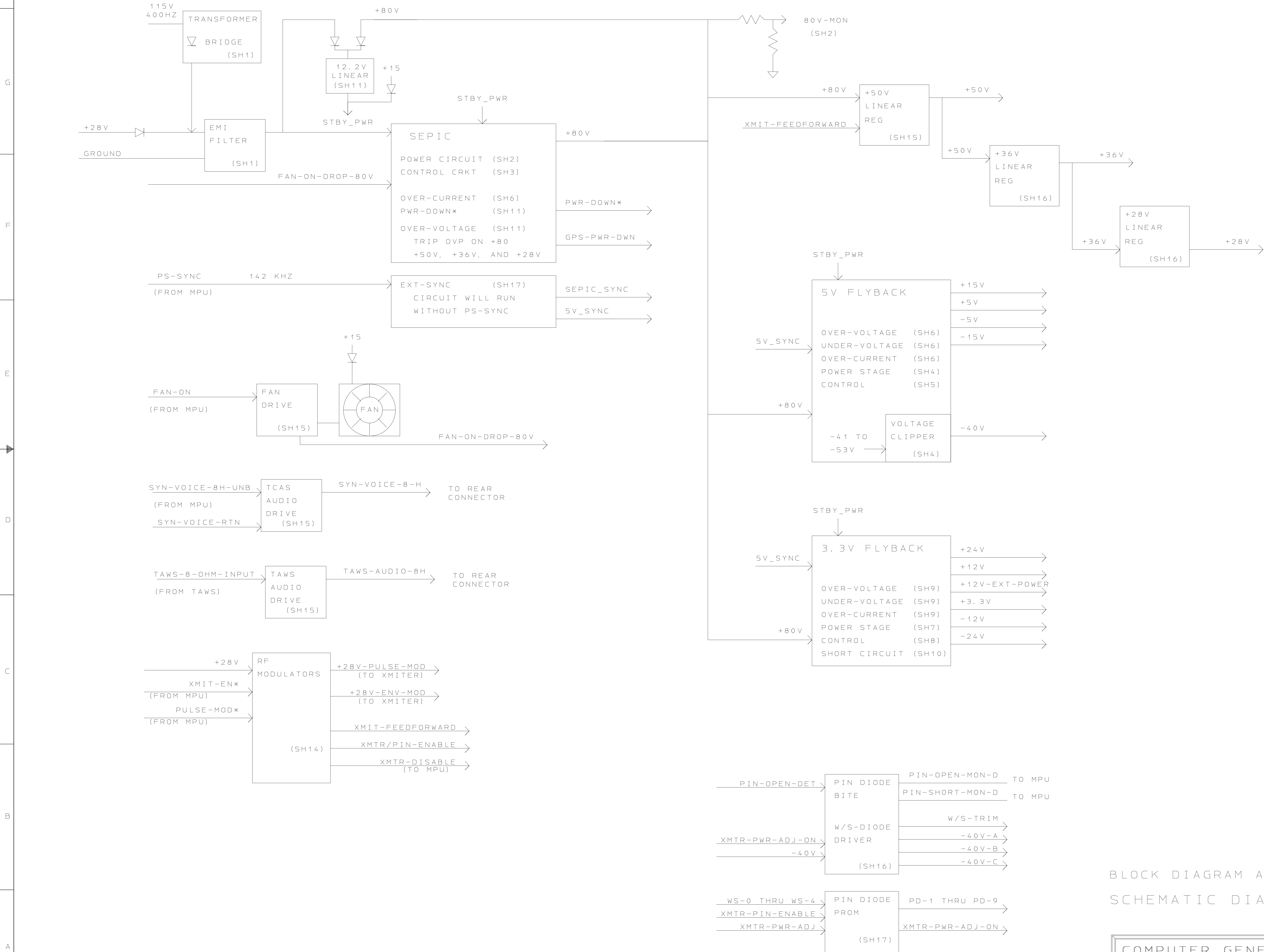
XMIT PIN DIODE CONTROL AND PS SYNC
SCHEMATIC DIAGRAM SHEET NO. 17

COMPUTER GENERATED

7-3-2002_16:26

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	CAGE CODE	DRAWING NO.	REV
1		E	1WYD3	9000015-001	F
SCALE		—		SHEET 29	

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



BLOCK DIAGRAM A4 CCA
SCHEMATIC DIAGRAM SHEET NO. 19

COMPUTER GENERATED

90000151 SH 19 7-3-2002_16: 01

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	CAGE CODE	DRAWING NO.	REV
E	1WYD3	9000015-001	F		
SCALE		SHEET 31			

