

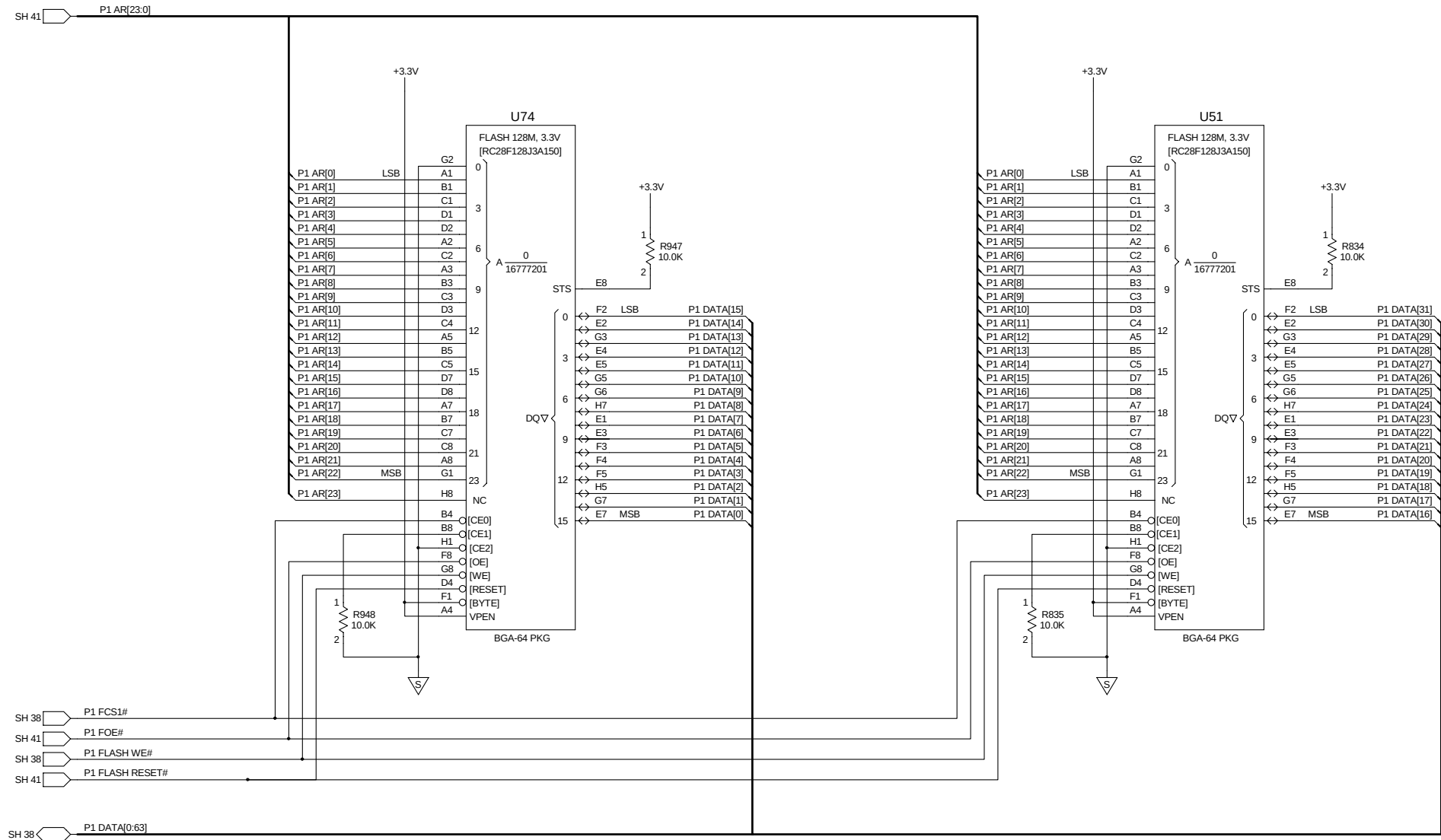
SHEET NO. 8 OF 14

ACSS

REV
G

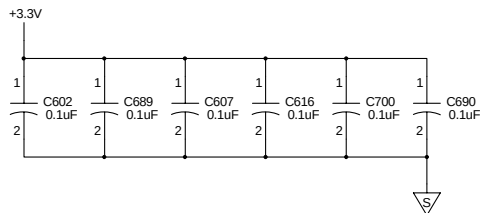
SHEET 36

DWG. NO.	9000020-001	SH.	37	REV	G
REVISIONS					
REV	DESCRIPTION				
G	UPDATED SHEET NUMBERS				



Design Notes:

1. The MPC8245 accommodates only single-beat writes to Flash memory. If an attempt is made to write to Flash with a data size other than the full data-path size, the MPC8245 does not report an error. Thus, if software is writing to Flash, the write operations should be sized to the data-path width (64 bits) because only a single write enable (WE#) strobe is available

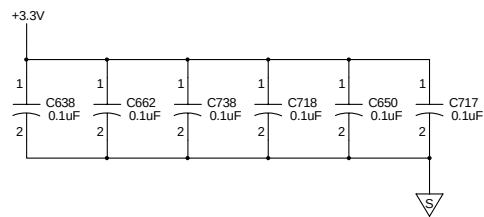
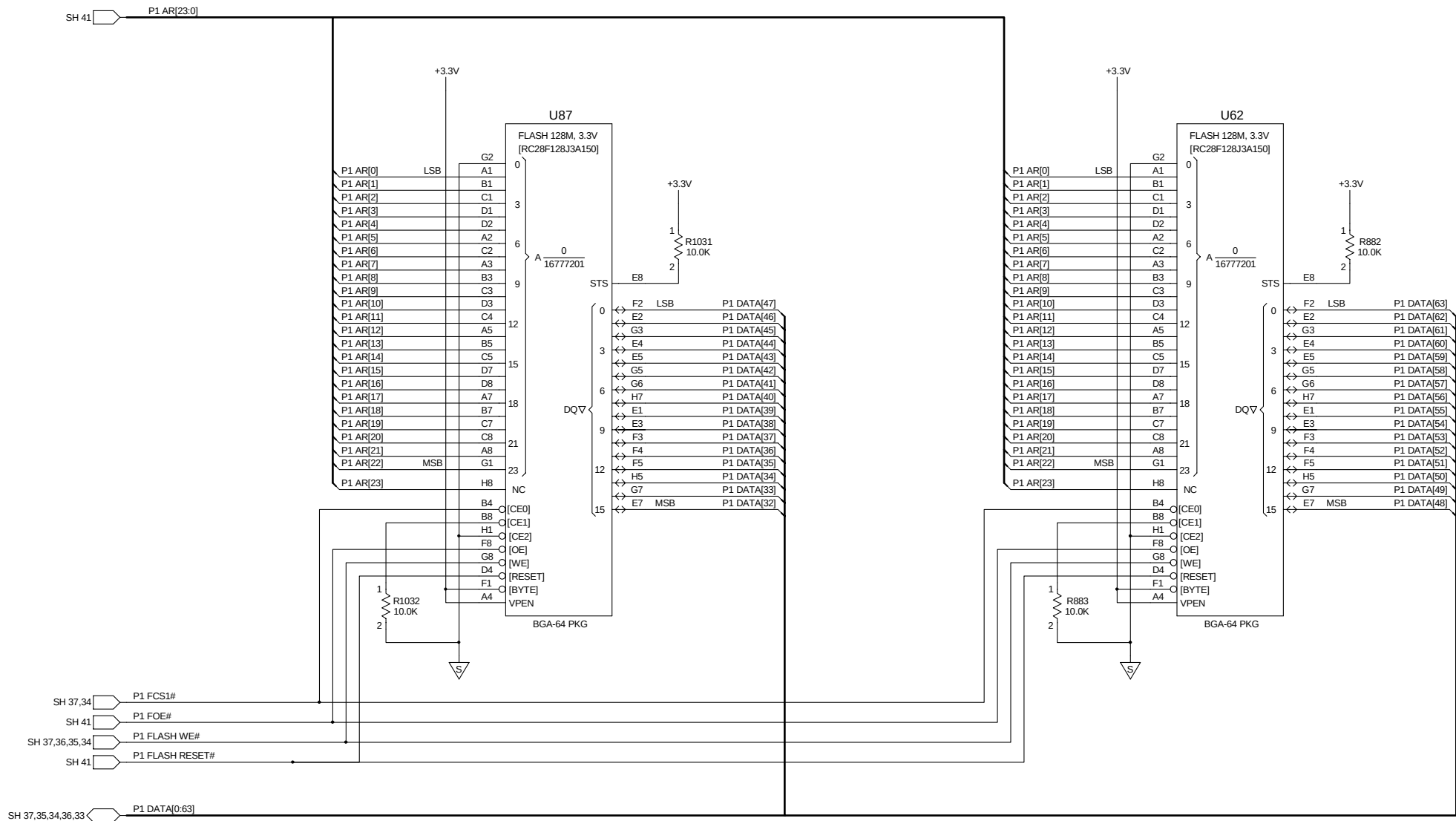


P1 PROCESSOR
P1 FLASH MEMORY - BANK 2 (1 OF 2)
64M BYTES
SHEET NO. 9 OF 14

COMPUTER GENERATED

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	DWG NO.	REV
		D	1WYD3	9000020-001	G
		SCALE: NONE		SHEET 37	

DWG. NO.	9000020-001	SH	38	REV	G	1
REVISIONS						
REV	DESCRIPTION					
G	UPDATED SHEET NUMBERS					



P1 PROCESSOR
P1 FLASH MEMORY - BANK 2 (2 OF 2)
SHEET NO. 10 OF 14

COMPUTER GENERATED

ACSS

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

SIZE
D 1WYD3

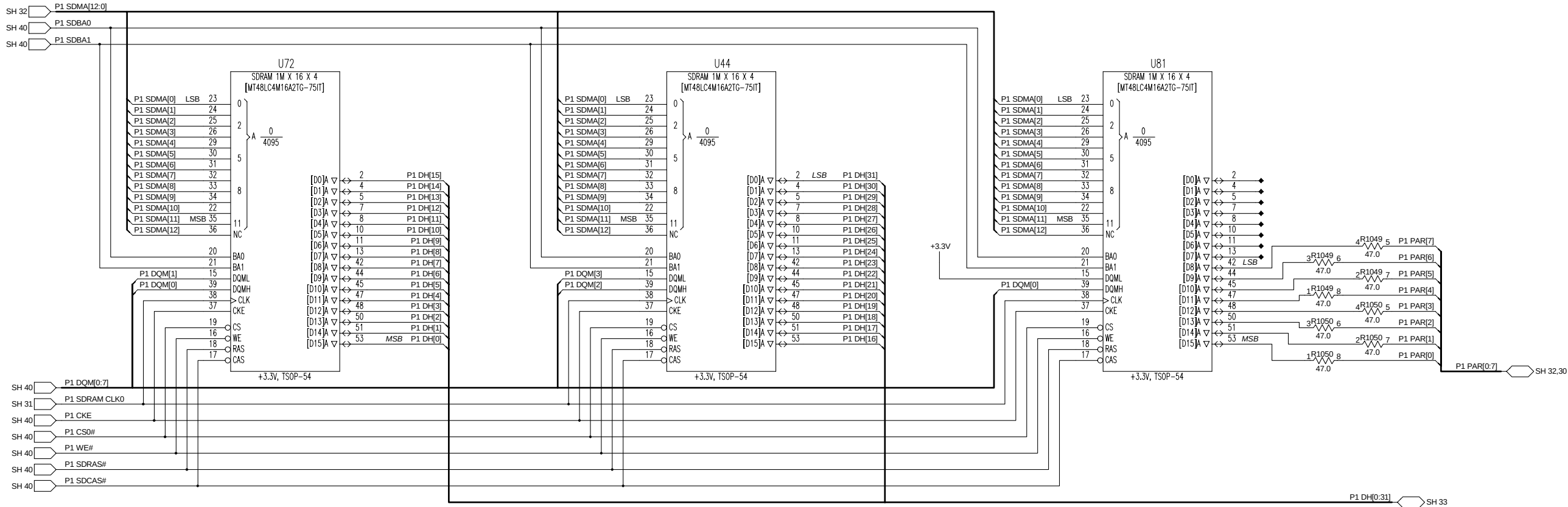
CAGE CODE
9000020-001

DWG NO.
G

SCALE 1 NONE

SHEET 38

DWG. NO.	9000020-001	SH	39	REV	G	1
REVISIONS						
REV	DESCRIPTION					
G	UPDATED SHEET NUMBERS					

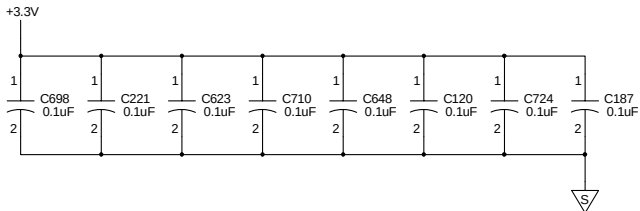
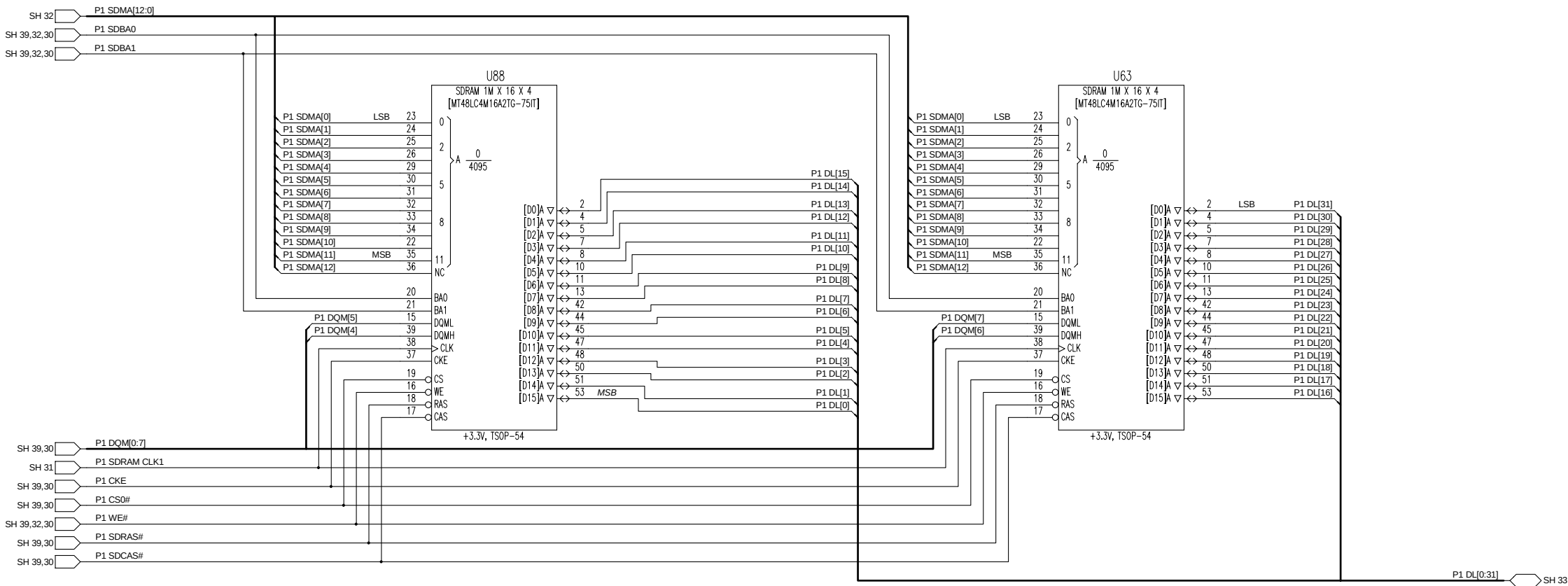


P1 PROCESSOR
P1 SDRAM MEMORY - 32M BYTES (1 OF 2)
P1 SDRAM ECC - 8M BYTES
SHEET NO. 11 OF 14

COMPUTER GENERATED

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	DWG NO.	REV
		D	1WYD3	9000020-001	G
		SCALE: NONE			SHEET 39

DWG. NO.	9000020-001	SH.	40	REV	G	1
REVISIONS						
REV	DESCRIPTION					
G	UPDATED SHEET NUMBERS					

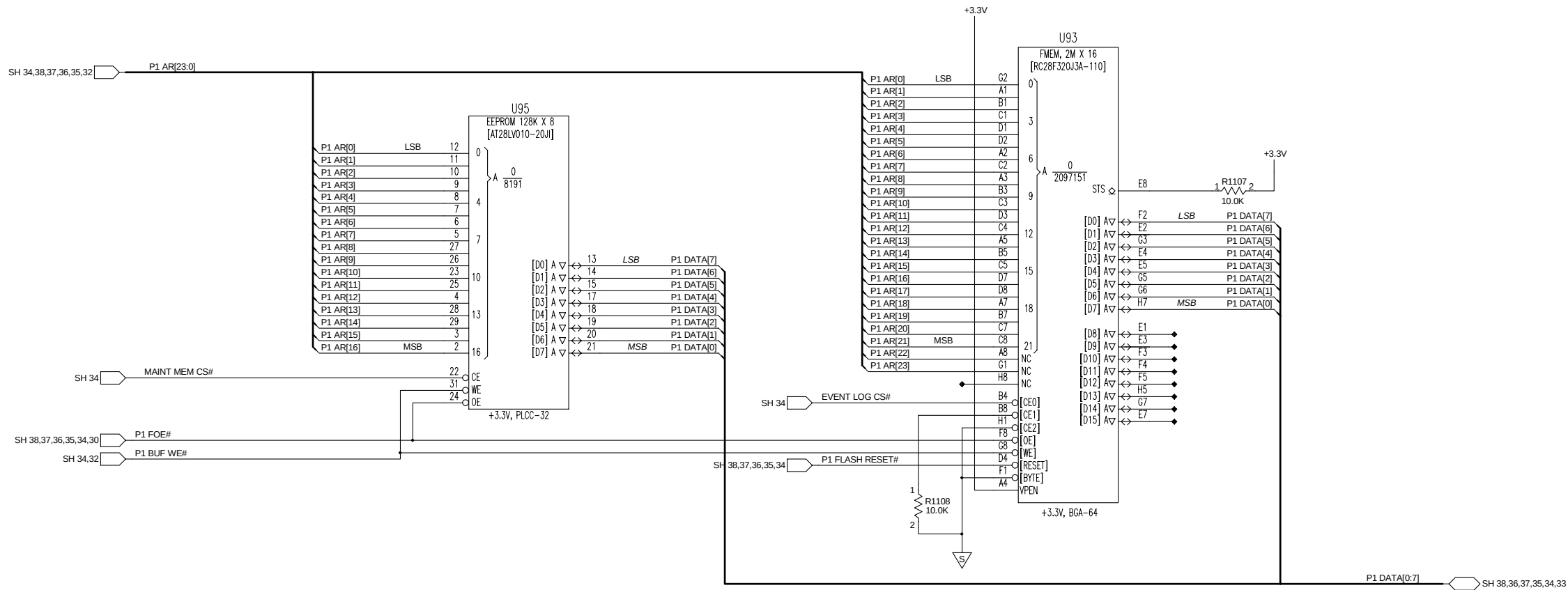


P1 PROCESSOR
P1 SDRAM MEMORY - 32M BYTES (2 OF 2)
SHEET NO. 12 OF 14

COMPUTER GENERATED

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	DWG NO.	REV
		D	1WYD3	9000020-001	G
		SCALE: NONE		SHEET 40	

DWG. NO.	9000020-001	SH.	41	REV	G
REVISIONS					
REV	DESCRIPTION				
G	UPDATED SHEET NUMBERS				



P1 PROCESSOR
P1 MAINTENANCE MEMORY - 128K BYTES EEPROM
P1 EVENT LOG MEMORY - 4M BYTES FLASH
SHEET NO. 13 OF 14

COMPUTER GENERATED

ACSS

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

SIZE
D 1WYD3

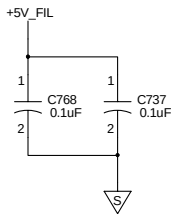
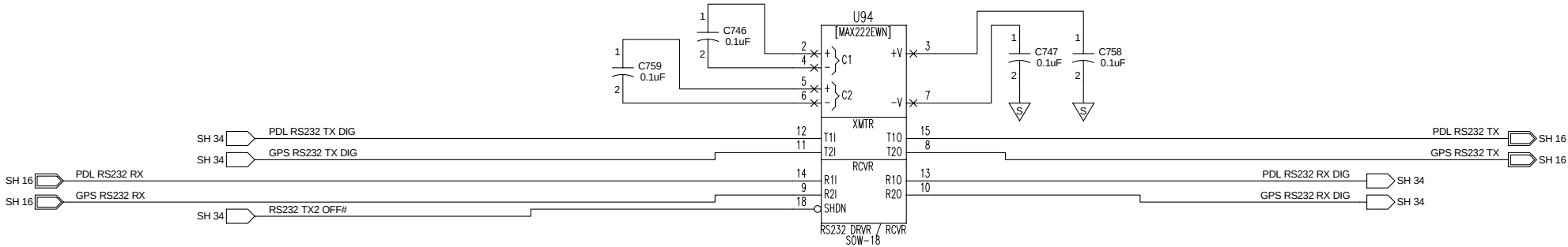
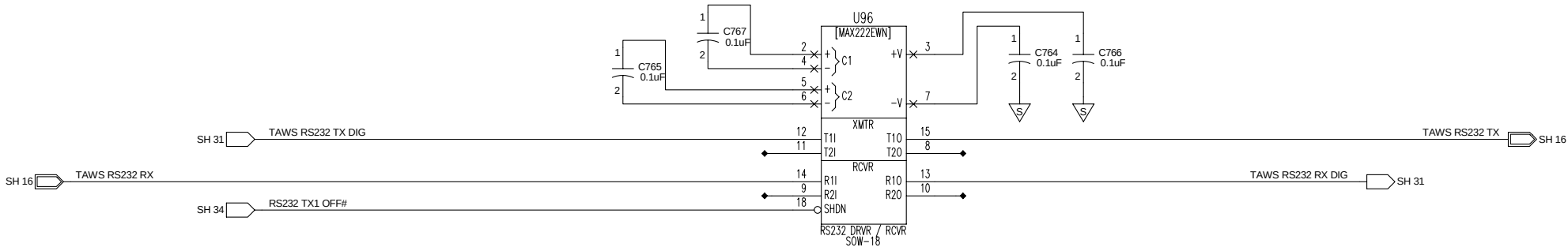
CAGE CODE
9000020-001

DWG. NO.
REV
G

SCALE: NONE

SHEET 41

DWG. NO.	9000020-001	SH.	42	REV	G	1
REVISIONS						
REV	DESCRIPTION					
G	CORRECTED SIGNAL NAME, ZONE B3: PDL RS232 TX WAS PDL RS323 TX. UPDATED SHEET NUMBERS.					

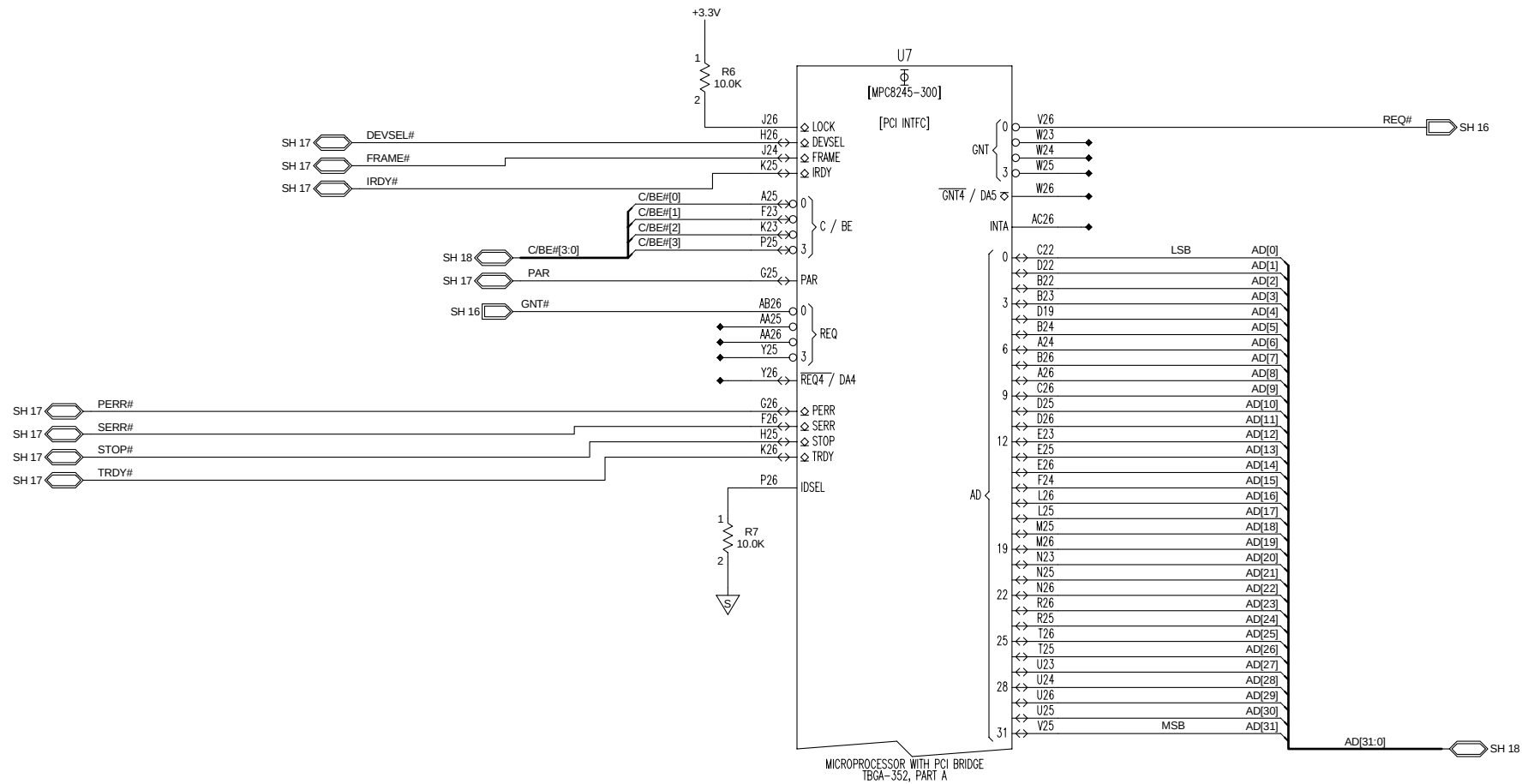


P1 PROCESSOR
RS232 INTERFACE
SHEET NO. 14 OF 14

COMPUTER GENERATED

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	DWG NO.	REV
		D	1WYD3	9000020-001	G
		SCALE: NONE		SHEET 42	

DWG. NO.	9000020-001	SH.	43	REV	G	1
REVISIONS						
REV	DESCRIPTION					
G	CHANGE U7 - WAS MPC8245-250. UPDATED SHEET NUMBER.					

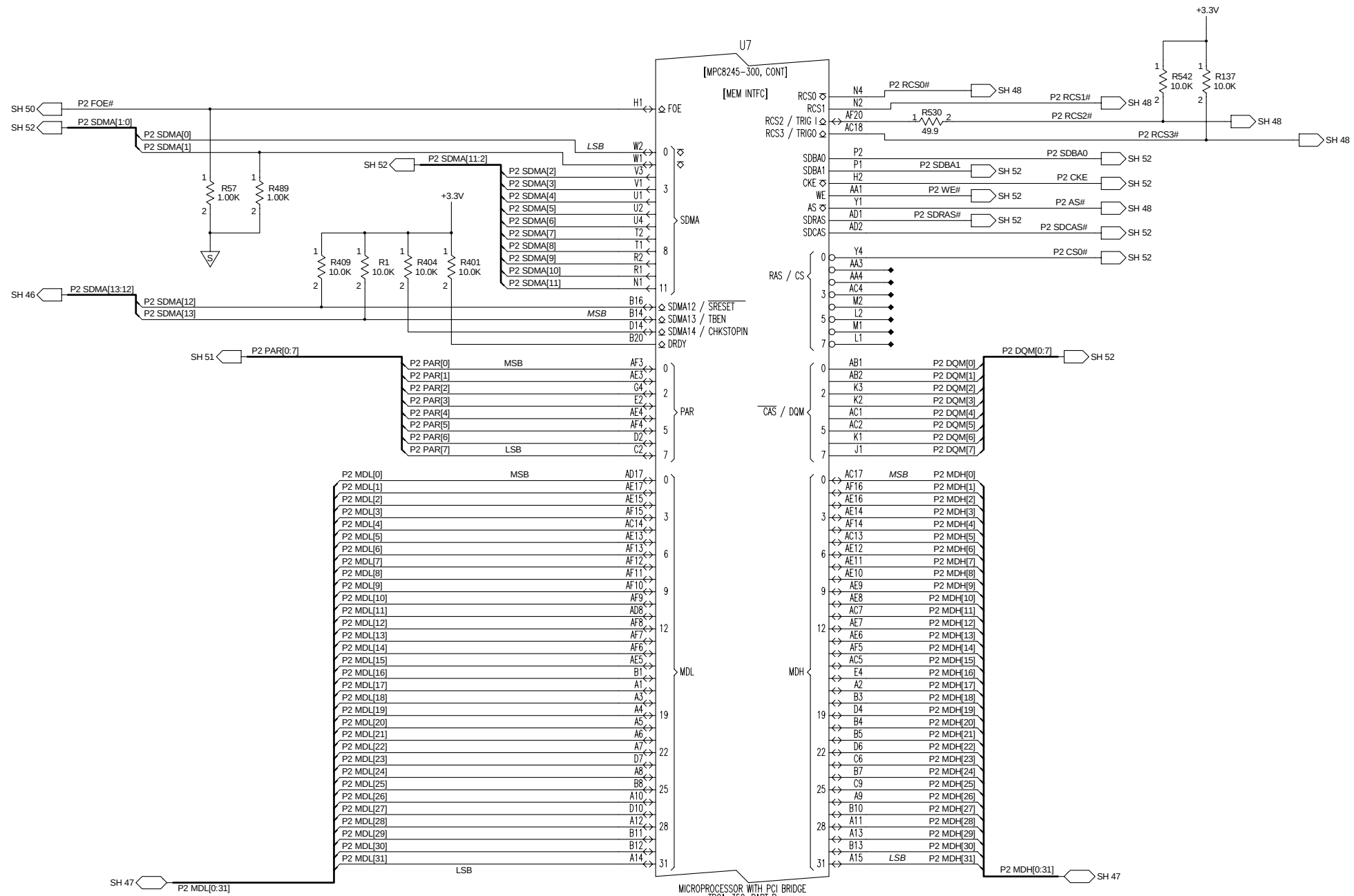


P2 PROCESSOR - MPC8245
PCI INTERFACE
SHEET NO. 1 OF 10

COMPUTER GENERATED

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	DWG NO.	REV
		D	1WYD3	9000020-001	G
		SCALE: NONE		SHEET 43	

DWG. NO.	9000020-001	SH.	44	REV	G	1
REVISIONS						
REV	DESCRIPTION					
G	CHANGE U7 - WAS MPC8245-250. UPDATED SHEET NUMBER.					



P2 PROCESSOR - MPC8245
MEMORY INTERFACE
SHEET NO. 2 OF 10

COMPUTER GENERATED

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
D 1WYD3

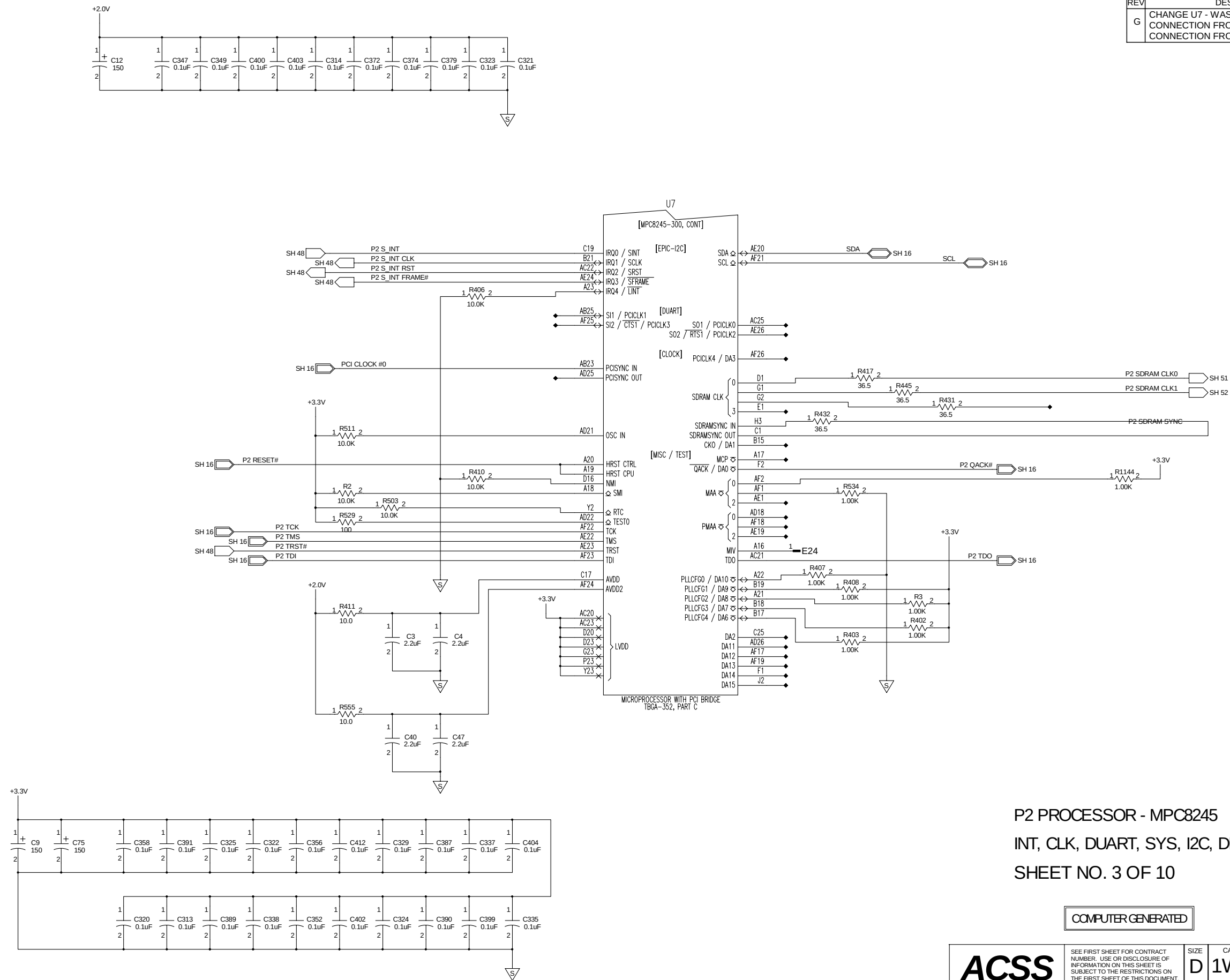
CAGE CODE
9000020-001

DWG. NO.
REV
G

SCALE: NONE

SHEET 44

DWG. NO.	9000020-001	SH	45	REV	G	1
REVISIONS						
REV	DESCRIPTION					
G	CHANGE U7 - WAS MPC8245-250. ADDED R1144. CHANGE R407 CONNECTION FROM 3.3V TO GND. CHANGE R403 AND R408 CONNECTION FROM GND TO 3.3V. UPDATED SHEET NUMBER.					

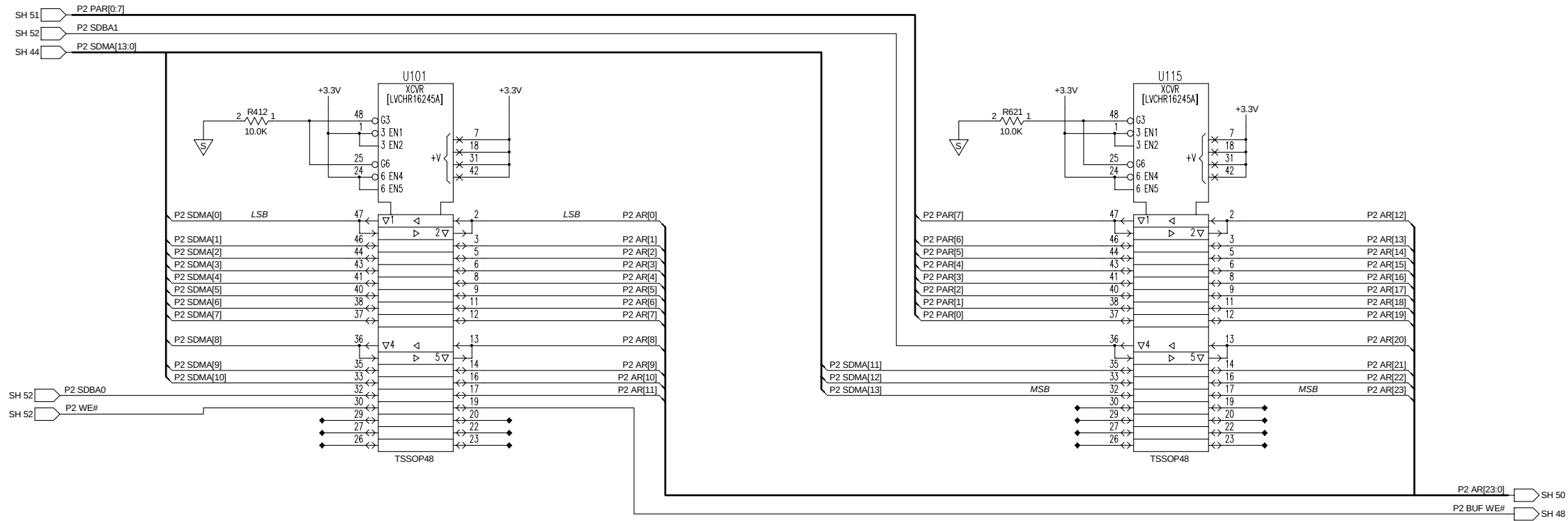


P2 PROCESSOR - MPC8245
INT, CLK, DUART, SYS, I2C, DEBUG & TST INTERFACE
SHEET NO. 3 OF 10

COMPUTER GENERATED

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	DWG NO.	REV
		D	1WYD3	9000020-001	G
		SCALE: NONE		SHEET 45	

DWG. NO.	9000020-001	SH.	46	REV	G	1
REVISIONS						
REV	DESCRIPTION					
G	UPDATED SHEET NUMBERS					



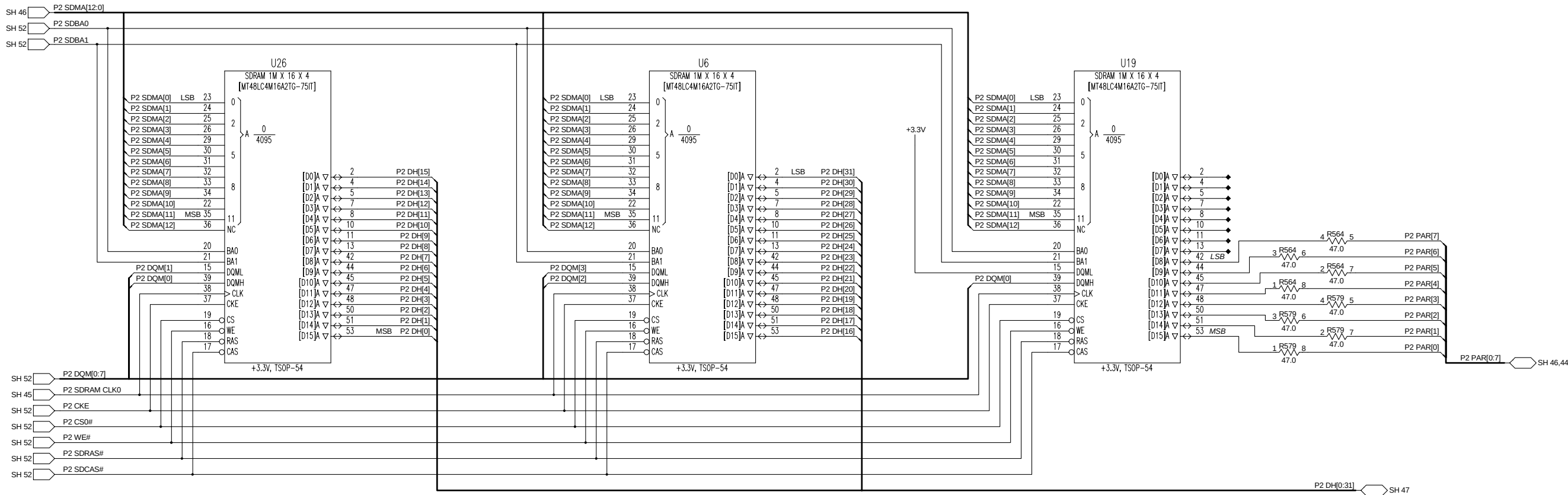
P2 PROCESSOR - ADDRESS BUS BUFFERS

SHEET NO. 4 OF 10

COMPUTER GENERATED

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	DWG NO.	REV
		D	1WYD3	9000020-001	G
		SCALE: NONE			SHEET 46

DWG. NO.	9000020-001	SH.	51	REV	G	1
REVISIONS						
REV	DESCRIPTION					
G	UPDATED SHEET NUMBERS					

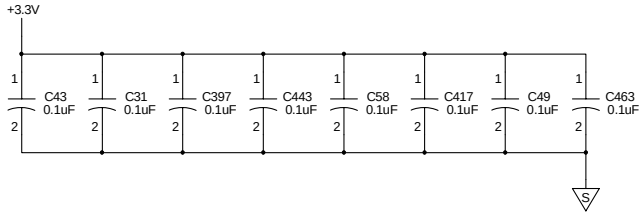
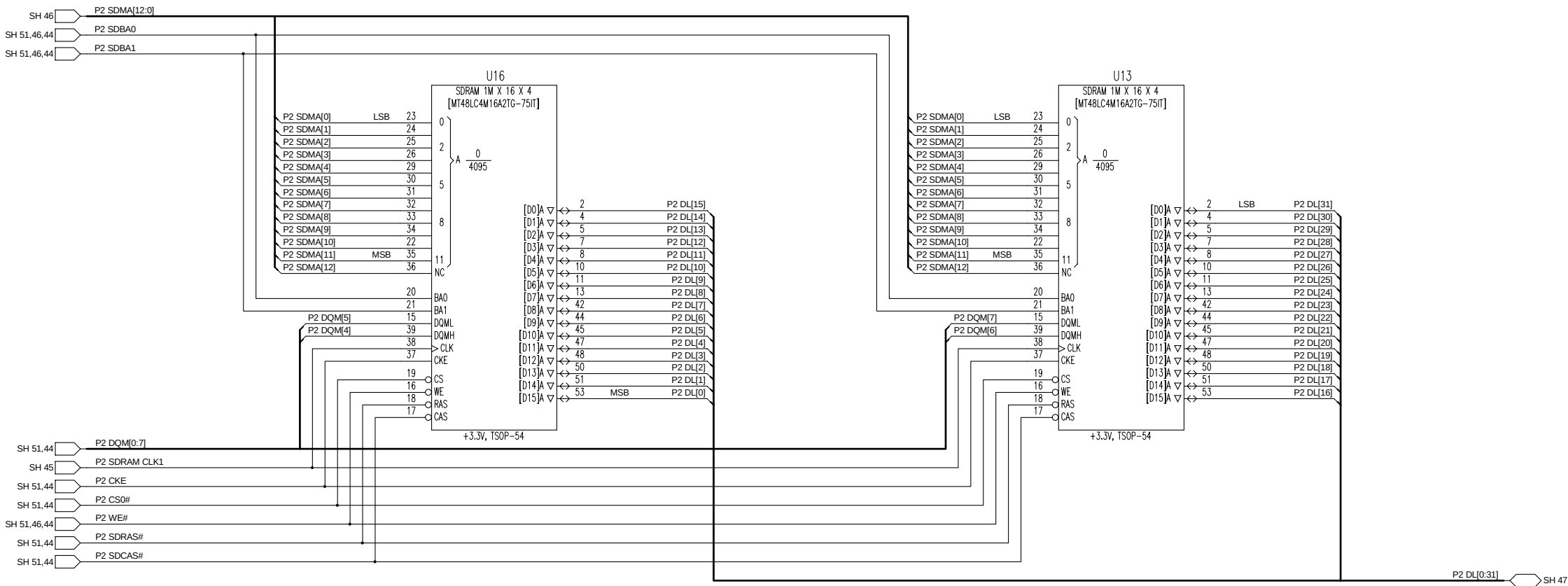


P2 PROCESSOR
P2 SDRAM MEMORY - 32M BYTES (1 OF 2)
P2 SDRAM ECC - 8M BYTES
SHEET NO. 9 OF 10

COMPUTER GENERATED

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	DWG NO.	REV
		D	1WYD3	9000020-001	G
		SCALE: NONE			SHEET 51

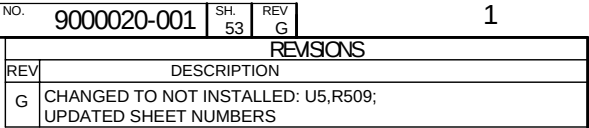
DWG. NO.	9000020-001	SH. 52	REV. G	1
REVISIONS				
REV	DESCRIPTION			
G	UPDATED SHEET NUMBERS			



P2 PROCESSOR
P2 SDRAM MEMORY - 32M BYTES (2 OF 2)
SHEET NO. 10 OF 10

COMPUTER GENERATED

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	DWG NO.	REV
		D	1WYD3	9000020-001	G
		SCALE: NONE			SHEET 52



PULSE DECODE - REPLY DECODER ASIC
SHEET NO. 1 OF 5

COMPUTER GENERATED

ACSS

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

SIZE	CAGE CODE
D	1WYD3

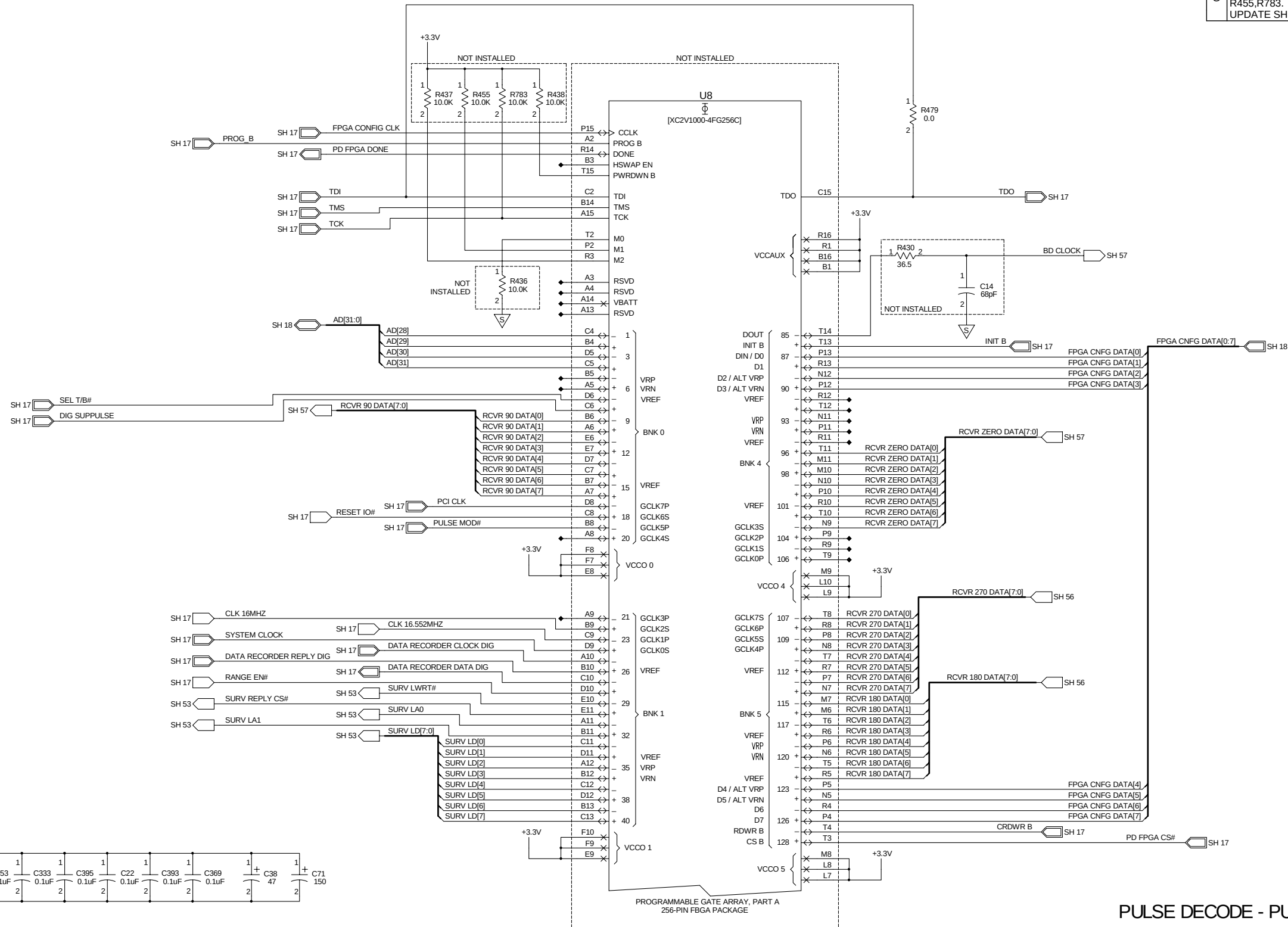
DWG NO.
9000020-001

REV	
G	

SCALE : NONE	
--------------	--

SHEET 53

DWG. NO.	9000020-001	SH.	54	REV	G	1
REVISIONS						
REV	DESCRIPTION					
G	CHANGED TO NOT INSTALLED: U8,C14,R430,R436,R437,R438, R455,R783. CHANGE TO INSTALLED: R479. UPDATE SHEET NUMBER.					



PULSE DECODE - PULSE DECODER FPGA (1 OF 2)
SHEET NO. 2 OF 5

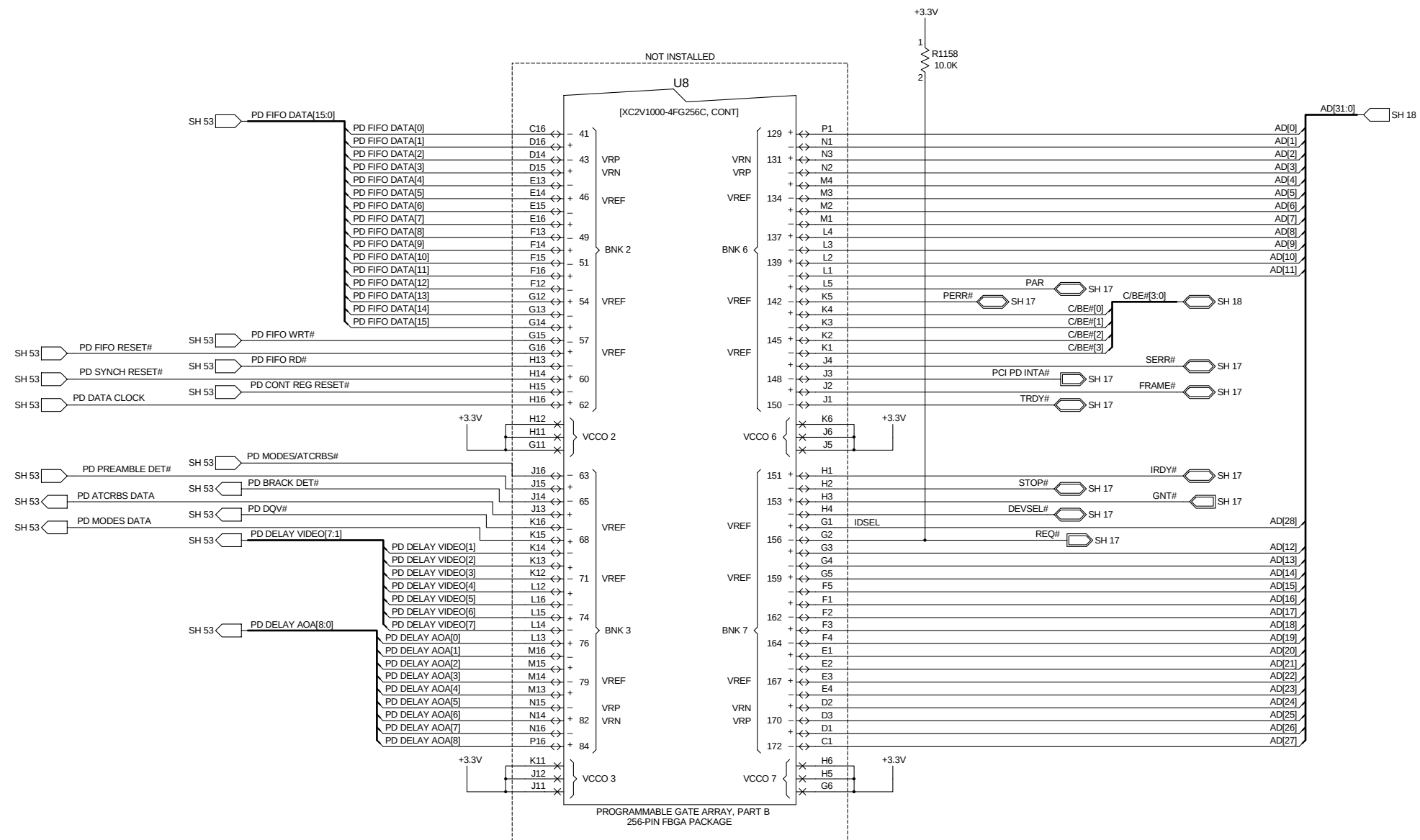
COMPUTER GENERATED

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	DWG. NO.	REV
D	1WYD3	9000020-001	G
SCALE	NONE	SHEET	54

DWG. NO.	9000020-001	SH 55	REV H	1
REVISIONS				
REV	DESCRIPTION			
G	CHANGED TO NOT INSTALLED: U8 UPDATED SHEET NUMBERS			
H	ADDED R1158.			



PULSE DECODE - PULSE DECODER FPGA (2 OF 2)

SHEET NO. 3 OF 5

COMPUTER GENERATED

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
D	1WYD3

1.	SCALE : NONE
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CAGE CODE

DWG NO.

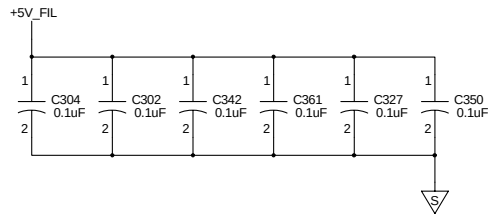
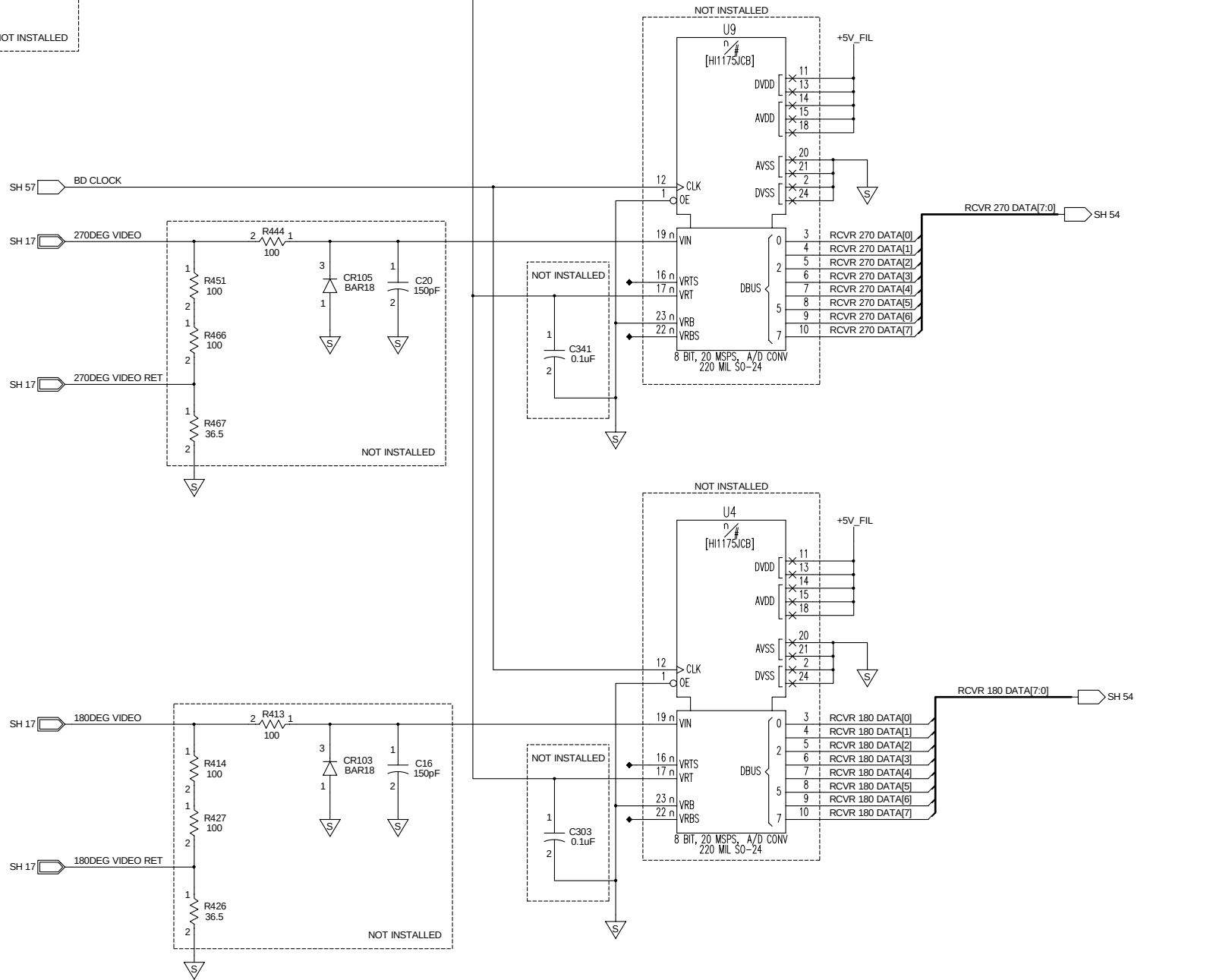
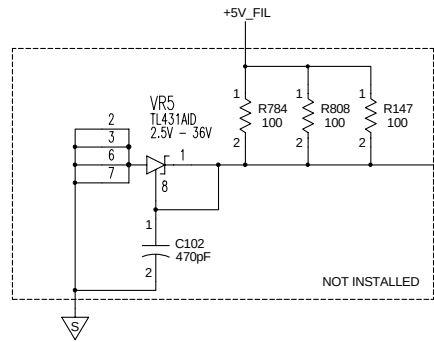
3 9000020-001

REV

REV	
H	

SHEET 55

DWG. NO.	9000020-001	SH.	56	REV	G
REVISIONS					
REV	DESCRIPTION				
G	CHANGED TO NOT INSTALLED: U4,U9,VR5,CR103,CR105,C16,C20,C102,R147,R413,R414,R426,R427,R444,R451,R466,R467,R784,R808 UPDATED SHEET NUMBER.				



PULSE DECODE - VIDEO INPUT (1 OF 2)

SHEET NO. 4 OF 5

COMPUTER GENERATED

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
D 1WYD3

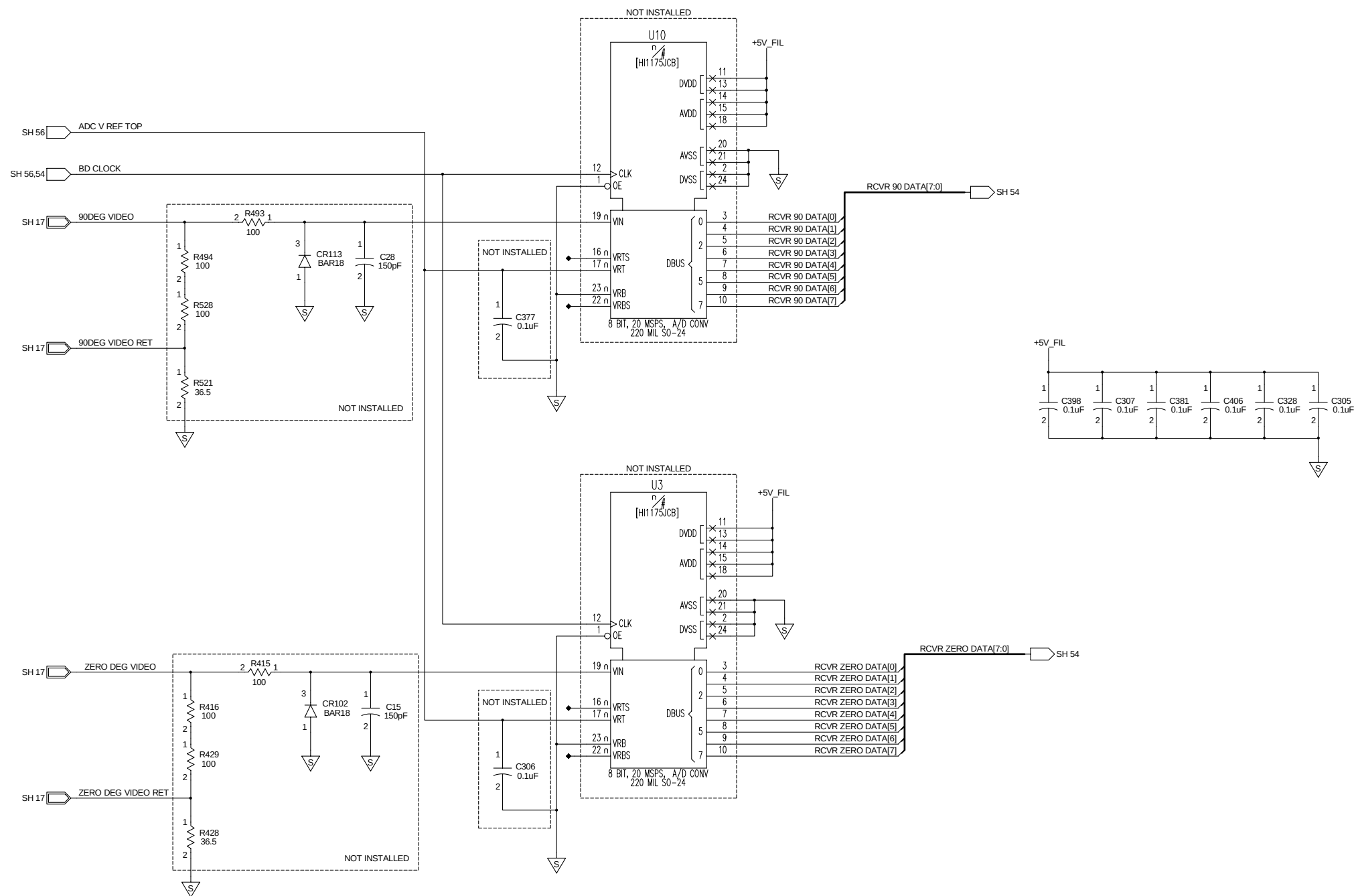
CAGE CODE
9000020-001

DWG. NO.
REV
G

SCALE: NONE

SHEET 56

DWG. NO.	9000020-001	SH.	57	REV	G	1
REVISIONS						
REV	DESCRIPTION					
G	CHANGED TO NOT INSTALLED: U3,U10,CR102,CR113,C15,C28,R415,R416,R428,R429,R493,R494,R521,R528. UPDATED SHEET NUMBER.					



PULSE DECODE - VIDEO INPUT (2 OF 2)

SHEET NO. 5 OF 5

COMPUTER GENERATED

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
D 1WYD3

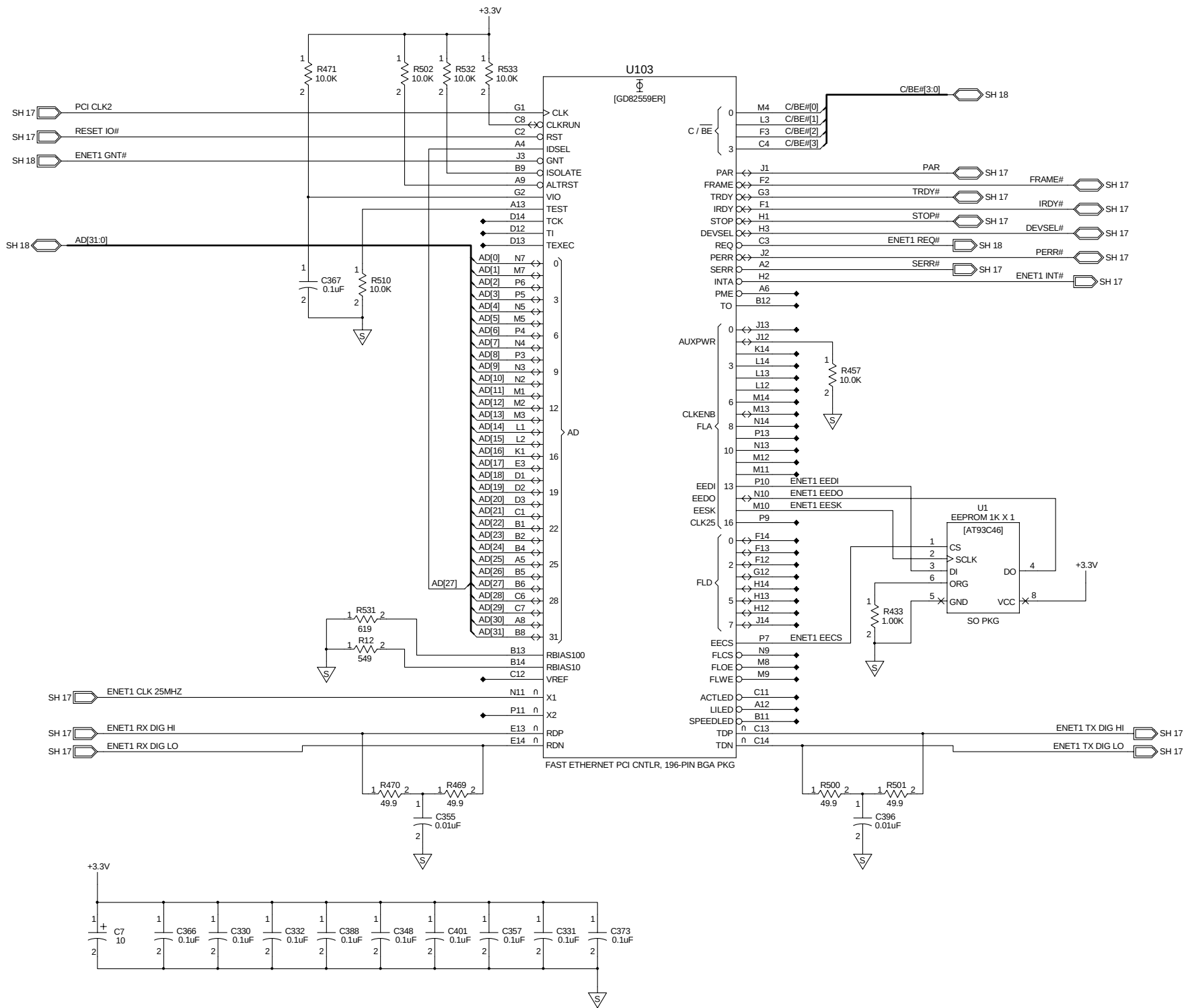
SCALE: NONE

CAGE CODE
9000020-001

SHEET 57

DWG. NO.
REV
G

DWG. NO.	9000020-001	SH.	58	REV	G	1
REVISIONS						
REV	DESCRIPTION					
G	UPDATED SHEET NUMBERS					



ETHERNET - CONTROLLER BUS NO. 1

SHEET NO. 1 OF 4

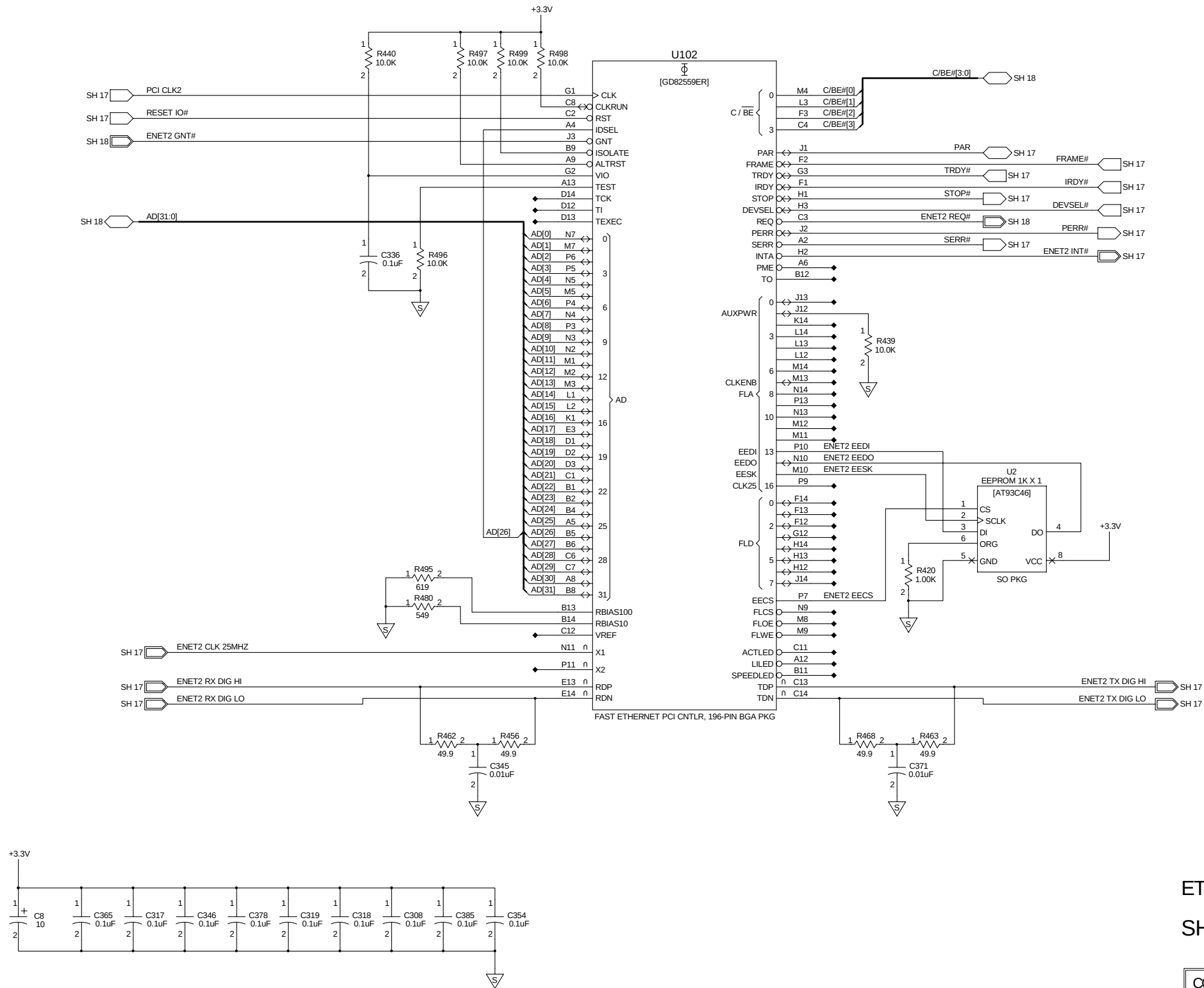
COMPUTER GENERATED

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	DWG. NO.	REV
D	1WYD3	9000020-001	G
SCALE: NONE		SHEET 58	

DWG. NO.	9000020-001	SH	59	REV	G
REVISIONS					
REV	DESCRIPTION				
G	UPDATED SHEET NUMBERS				

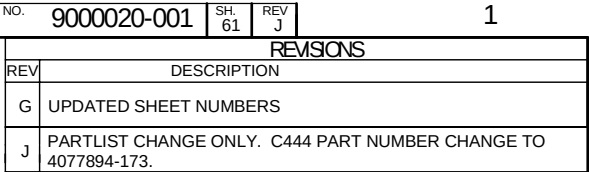


ETHERNET - CONTROLLER BUS NO. 2

SHEET NO. 2 OF 4

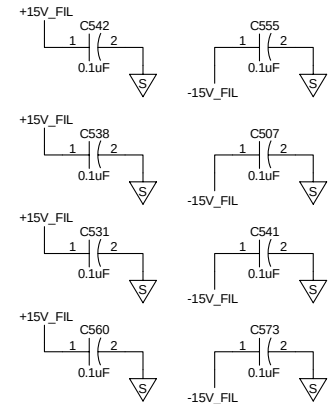
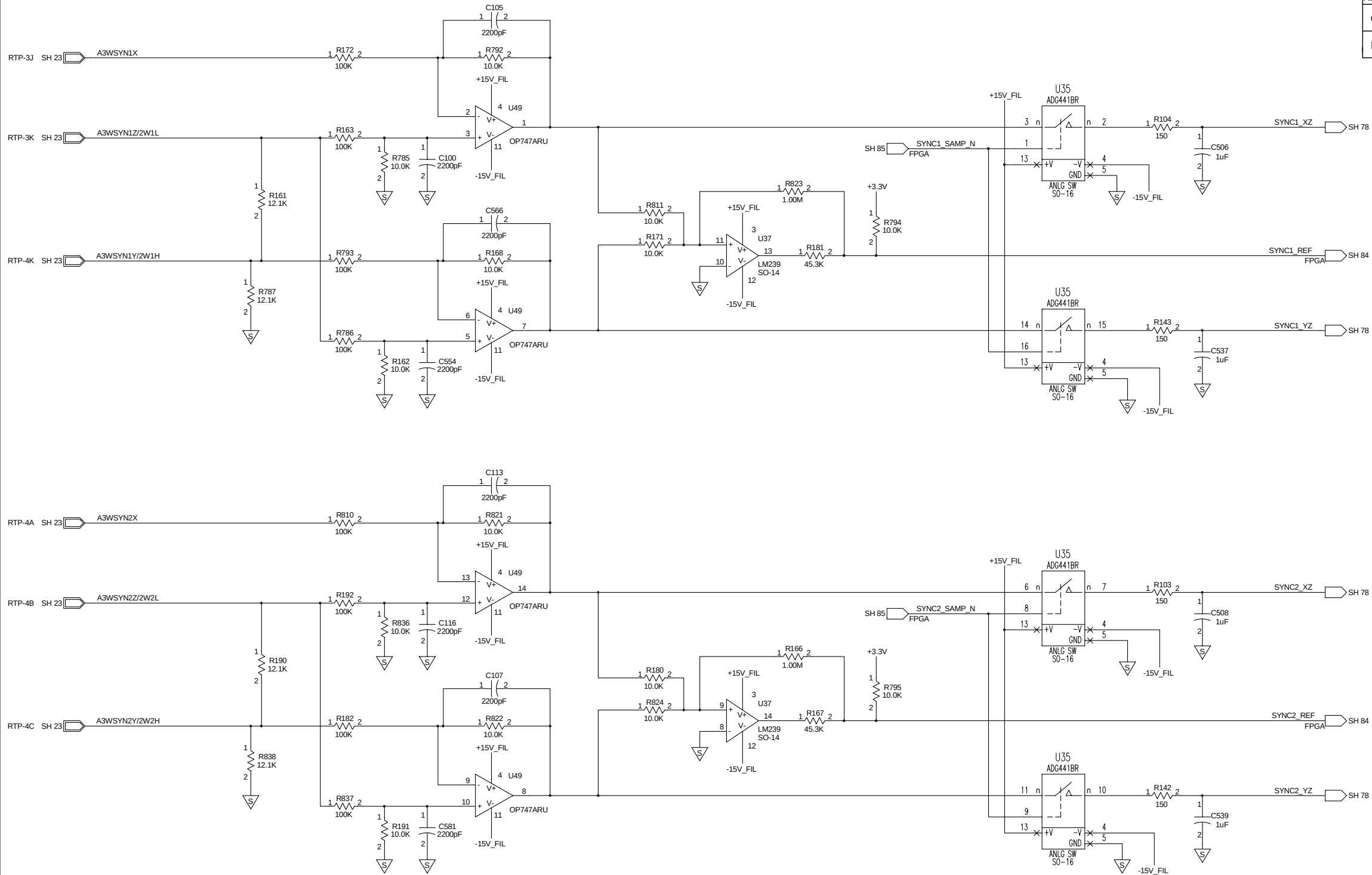
COMPUTER GENERATED

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	DWG NO.	REV
		D	1WYD3	9000020-001	G
		SCALE: NONE		SHEET 59	



COMPUTER GENERATED

DWG. NO.	9000020-001	SH. 62	REV. H	1
REVISIONS				
REV	DESCRIPTION			
G	UPDATED SHEET NUMBERS			
H	CHANGED R104,R143,R103,R142 VALUE FROM 1.5K TO 150. CHANGED C506,C537,C508,C539 VALUE FROM 0.1uF TO 1.0uF.			



INPUT OUTPUT
ANALOG INPUTS
ANALOG 3-WIRE/2-WIRE (SYNCHRO) INPUTS
SHEET 1 OF 26

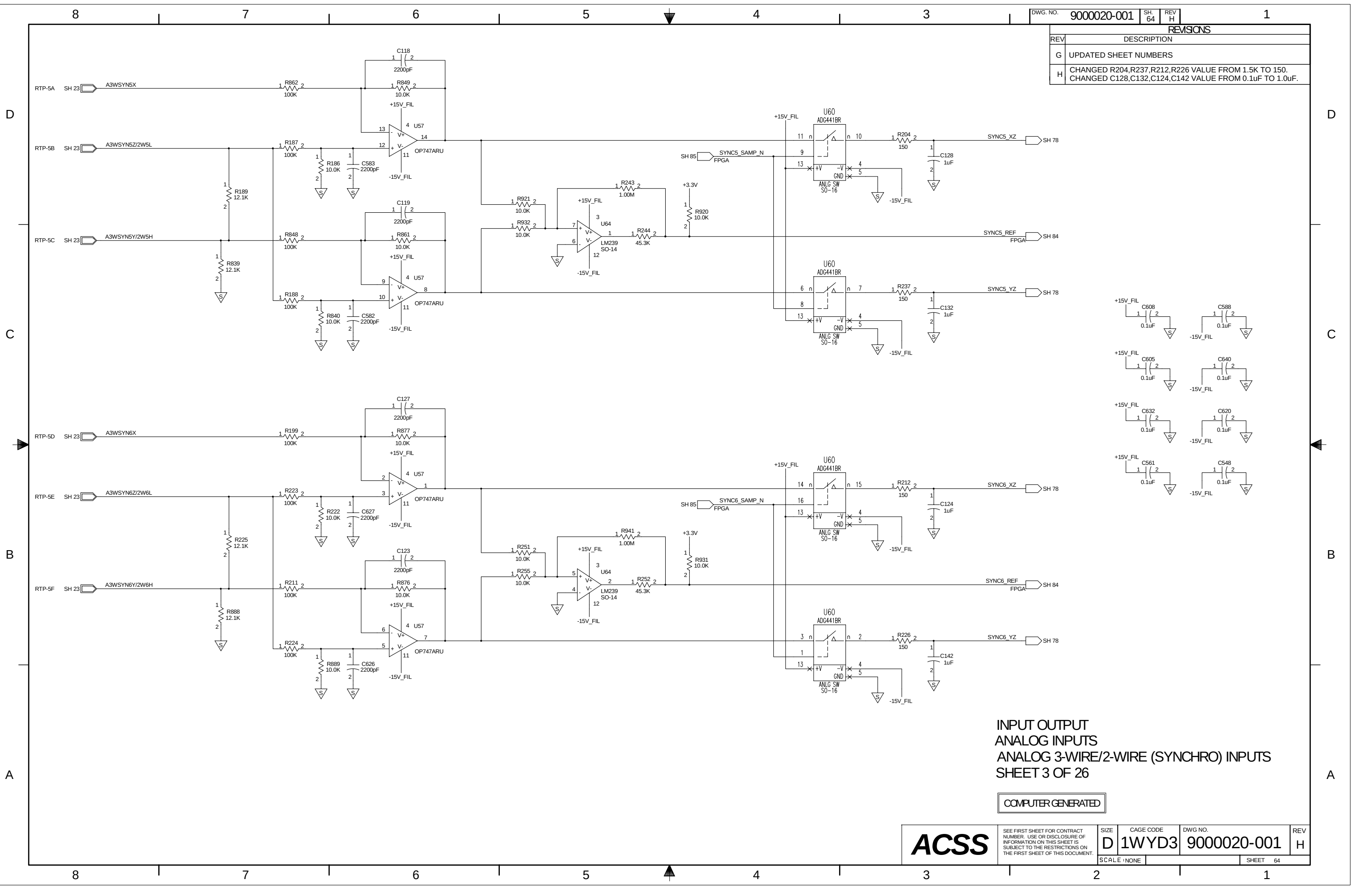
COMPUTER GENERATED

ACSS

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

SIZE	CAGE CODE	DWG. NO.	REV
D	1WYD3	9000020-001	H
SCALE: NONE		SHEET 62	

DWG. NO.	9000020-001	SH.	64	REV	H
REVISIONS					
REV	DESCRIPTION				
G	UPDATED SHEET NUMBERS				
H	CHANGED R204,R237,R212,R226 VALUE FROM 1.5K TO 150. CHANGED C128,C132,C124,C142 VALUE FROM 0.1uF TO 1.0uF.				

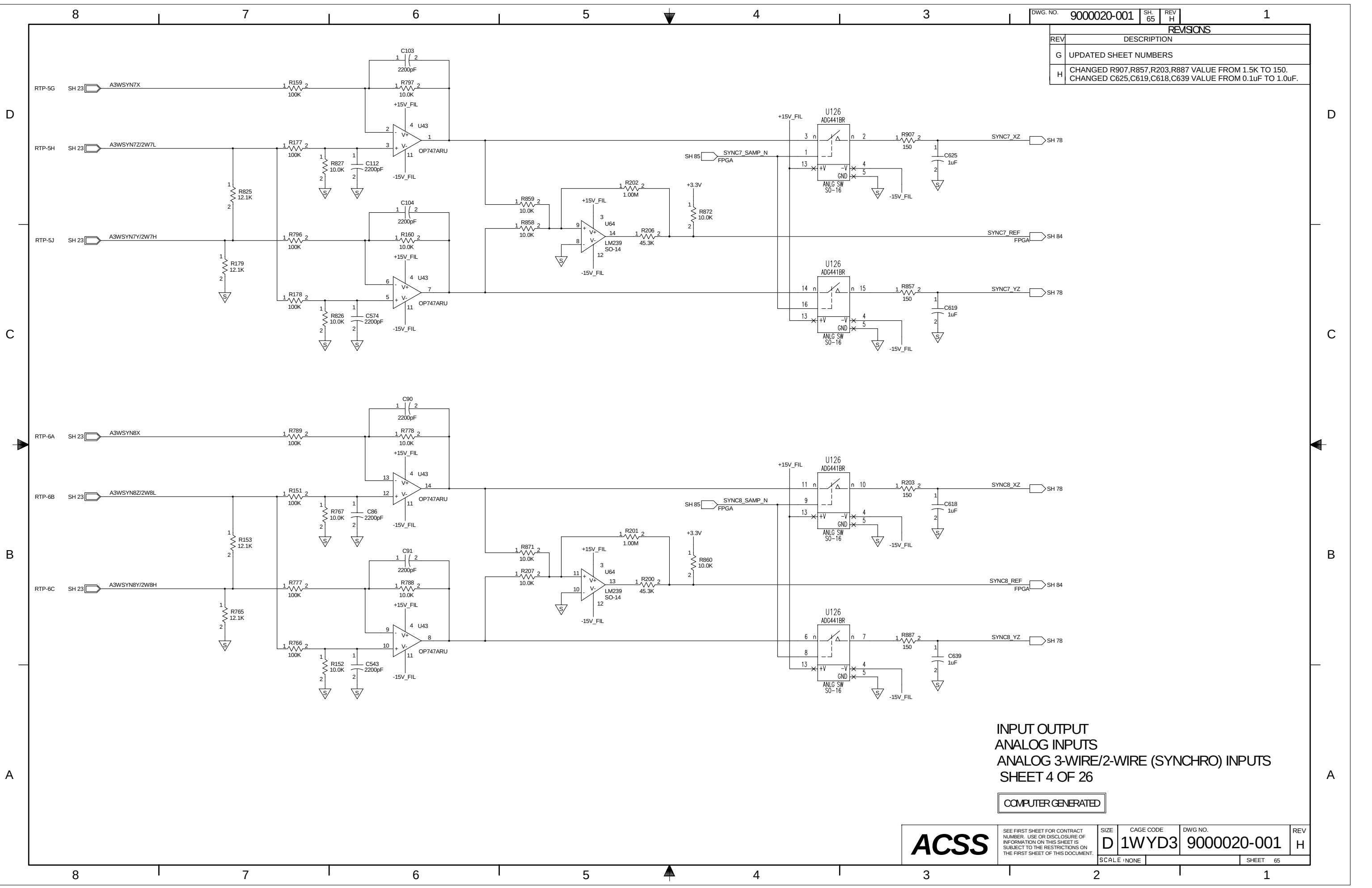


INPUT OUTPUT
ANALOG INPUTS
ANALOG 3-WIRE/2-WIRE (SYNCHRO) INPUTS
SHEET 3 OF 26

COMPUTER GENERATED

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	DWG. NO.	REV
				D	1WYD3	9000020-001	H
				SCALE: NONE		SHEET 64	

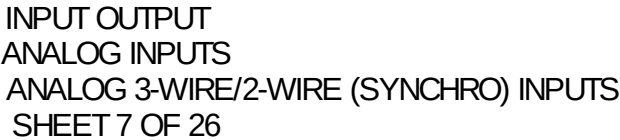
DWG. NO.	9000020-001	SH.	65	REV	H
REVISONS					
REV	DESCRIPTION				
G	UPDATED SHEET NUMBERS				
H	CHANGED R907,R857,R203,R887 VALUE FROM 1.5K TO 150. CHANGED C625,C619,C618,C639 VALUE FROM 0.1uF TO 1.0uF.				



INPUT OUTPUT
ANALOG INPUTS
ANALOG 3-WIRE/2-WIRE (SYNCHRO) INPUTS
SHEET 4 OF 26

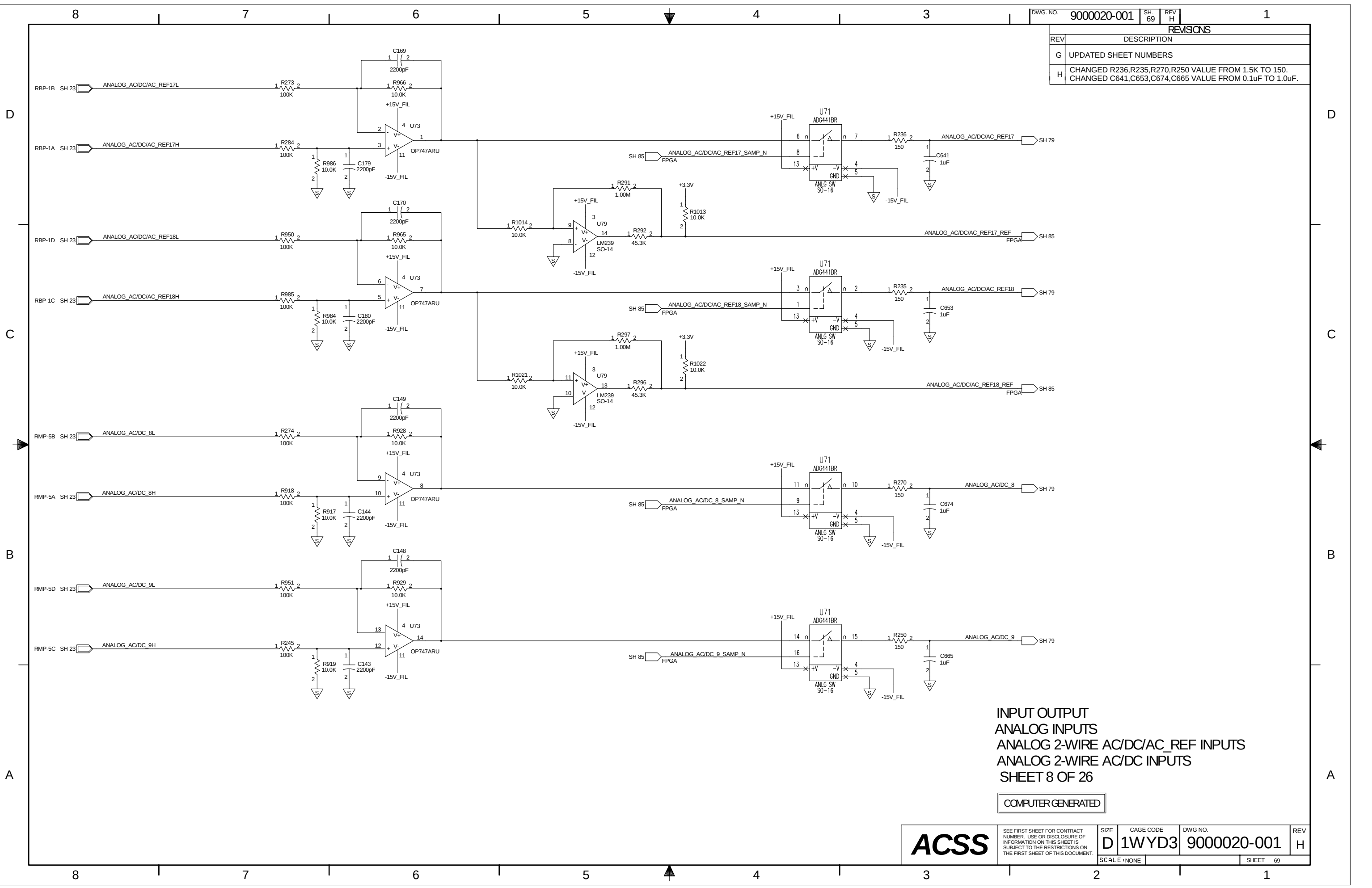
COMPUTER GENERATED

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	DWG NO.	REV
		D	1WYD3	9000020-001	H
		SCALE: NONE			SHEET 65



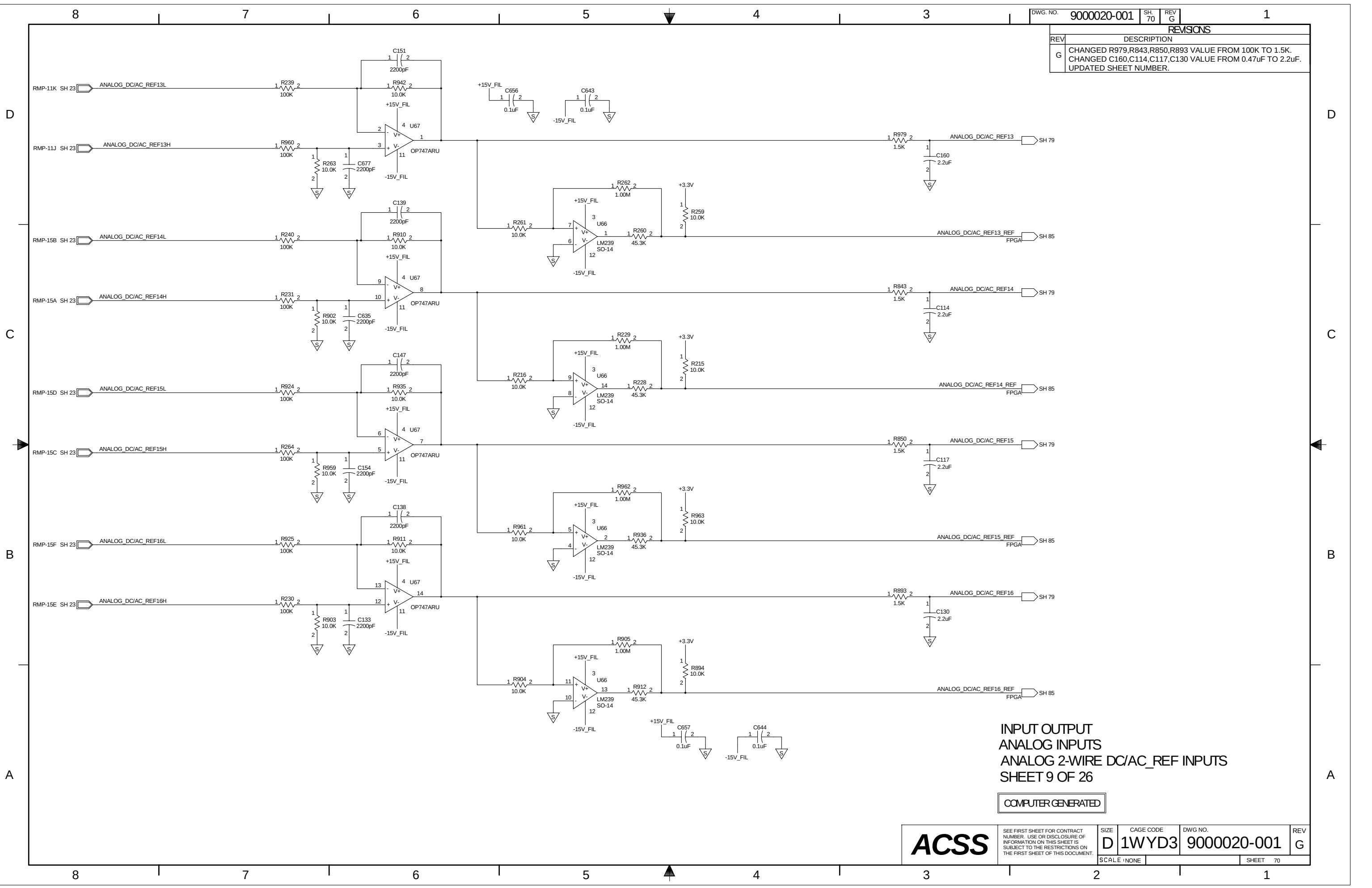
COMPUTER GENERATED

DWG. NO.	9000020-001	SH.	69	REV	H
REVISIONS					
REV	DESCRIPTION				
G	UPDATED SHEET NUMBERS				
H	CHANGED R236,R235,R270,R250 VALUE FROM 1.5K TO 150. CHANGED C641,C653,C674,C665 VALUE FROM 0.1uF TO 1.0uF.				



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	DWG NO.	REV
		D	1WYD3	9000020-001	H
		SCALE: NONE			SHEET 69

DWG. NO.	9000020-001	SH	70	REV	G
REVISIONS					
REV	DESCRIPTION				
G	CHANGED R979,R843,R850,R893 VALUE FROM 100K TO 1.5K. CHANGED C160,C114,C117,C130 VALUE FROM 0.47uF TO 2.2uF. UPDATED SHEET NUMBER.				



COMPUTER GENERATED

ACSS

SEE FIRST SHEET FOR CONTRACT
NUMBER. USE OR DISCLOSURE OF
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THE FIRST SHEET OF THIS DOCUMENT.

SIZE
D 1WYD3

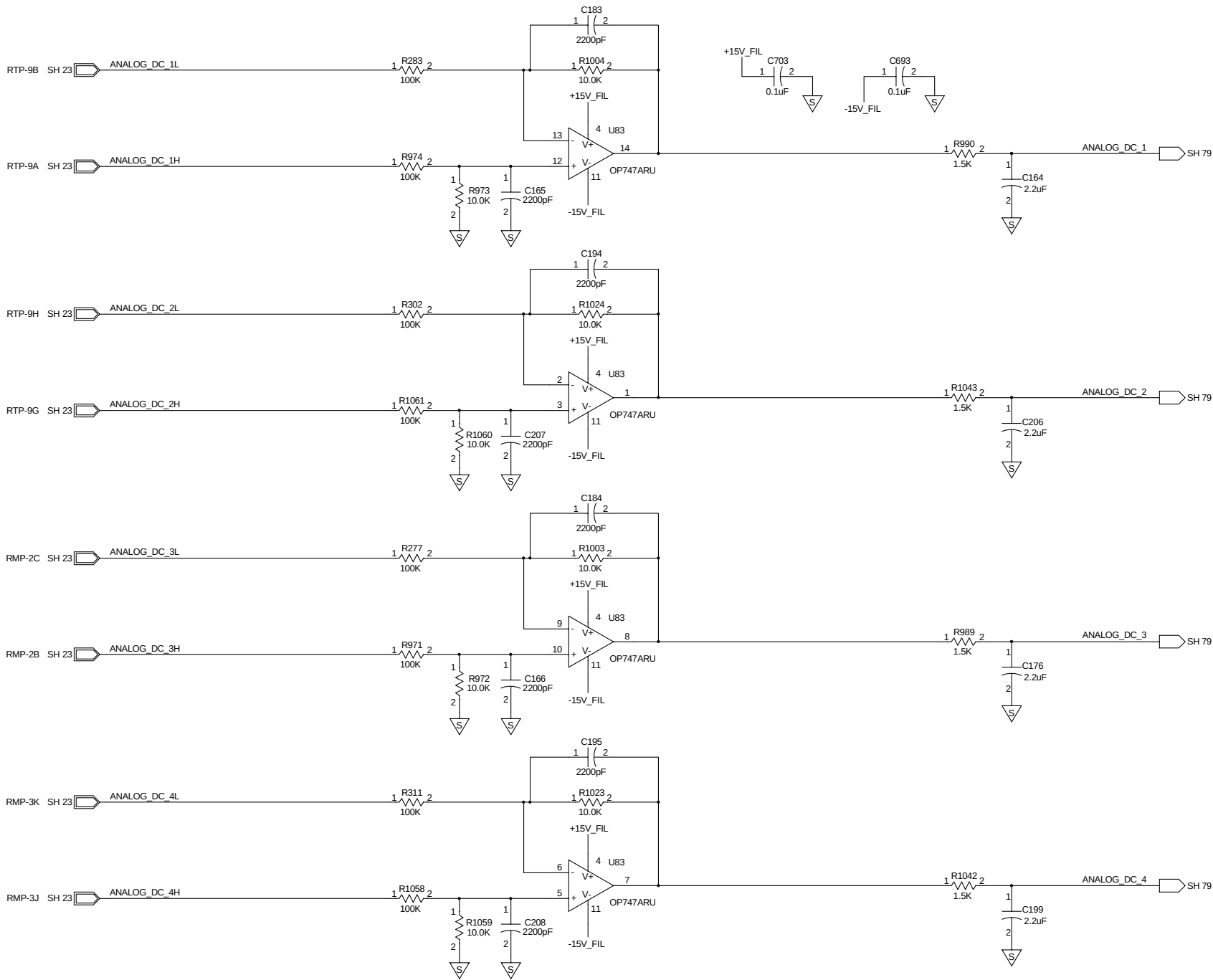
CAGE CODE
9000020-001

DWG. NO.
REV
G

SCALE: NONE

SHEET 70

DWG. NO.	9000020-001	SH.	71	REV	G
REVISIONS					
REV	DESCRIPTION				
G	CHANGED R990,R1043,R989,R1042 VALUE FROM 100K TO 1.5K. CHANGED C164,C206,C176,C199 VALUE FROM 0.47uF TO 2.2uF. UPDATED SHEET NUMBER.				

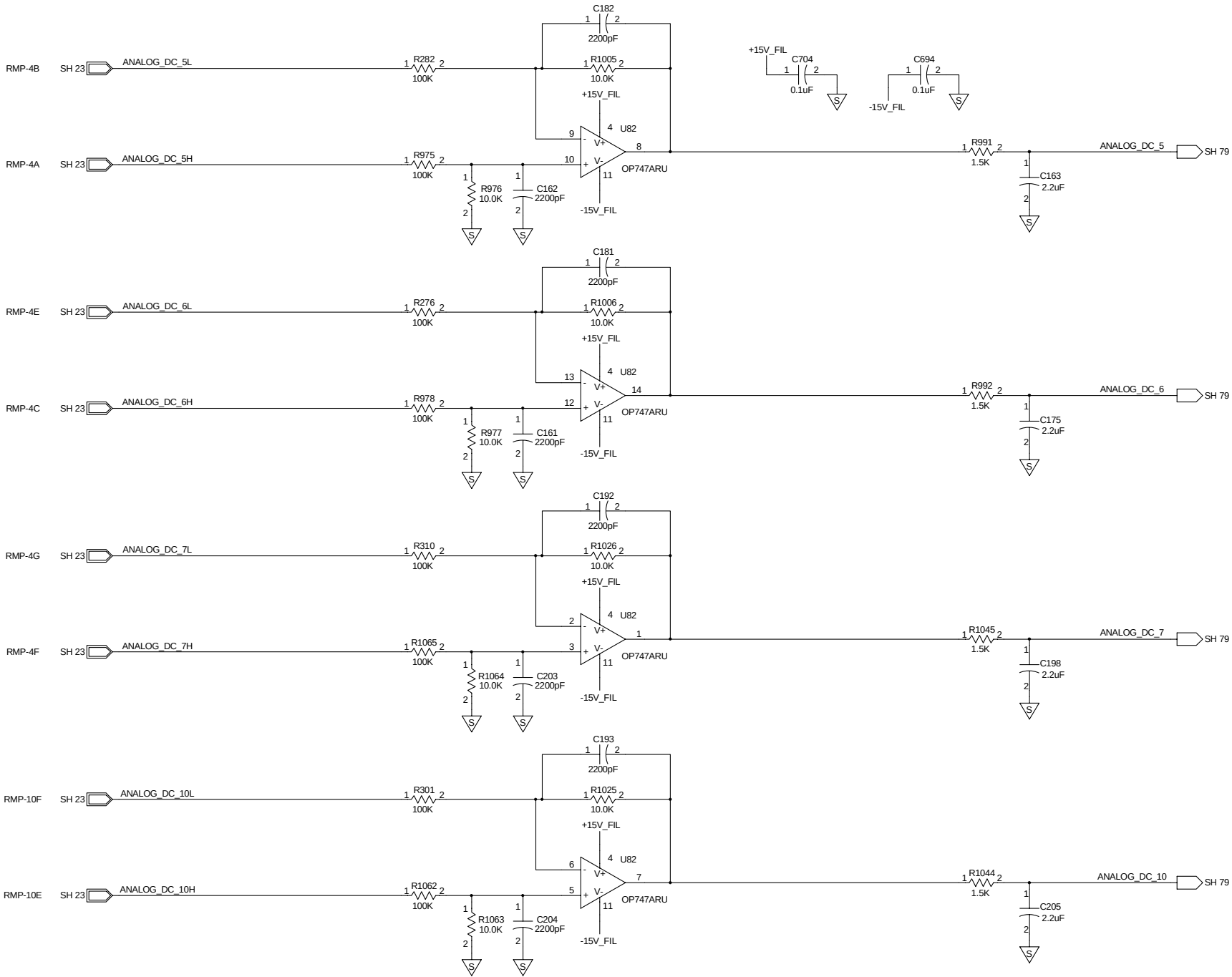


INPUT OUTPUT
ANALOG INPUTS
ANALOG 2-WIRE DC INPUTS
SHEET 10 OF 26

COMPUTER GENERATED

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	DWG NO.	REV
		D	1WYD3	9000020-001	G
		SCALE: NONE			SHEET 71

DWG. NO.	9000020-001	SH	72	REV	G	1
REVISIONS						
REV	DESCRIPTION					
G	CHANGED R991,R992,R1045,R1044 VALUE FROM 100K TO 1.5K. CHANGED C163,C175,C198,C205 VALUE FROM 0.47uF TO 2.2uF. UPDATED SHEET NUMBER.					



INPUT OUTPUT
ANALOG INPUTS
ANALOG 2-WIRE DC INPUTS
SHEET 11 OF 26

COMPUTER GENERATED

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
D 1WYD3

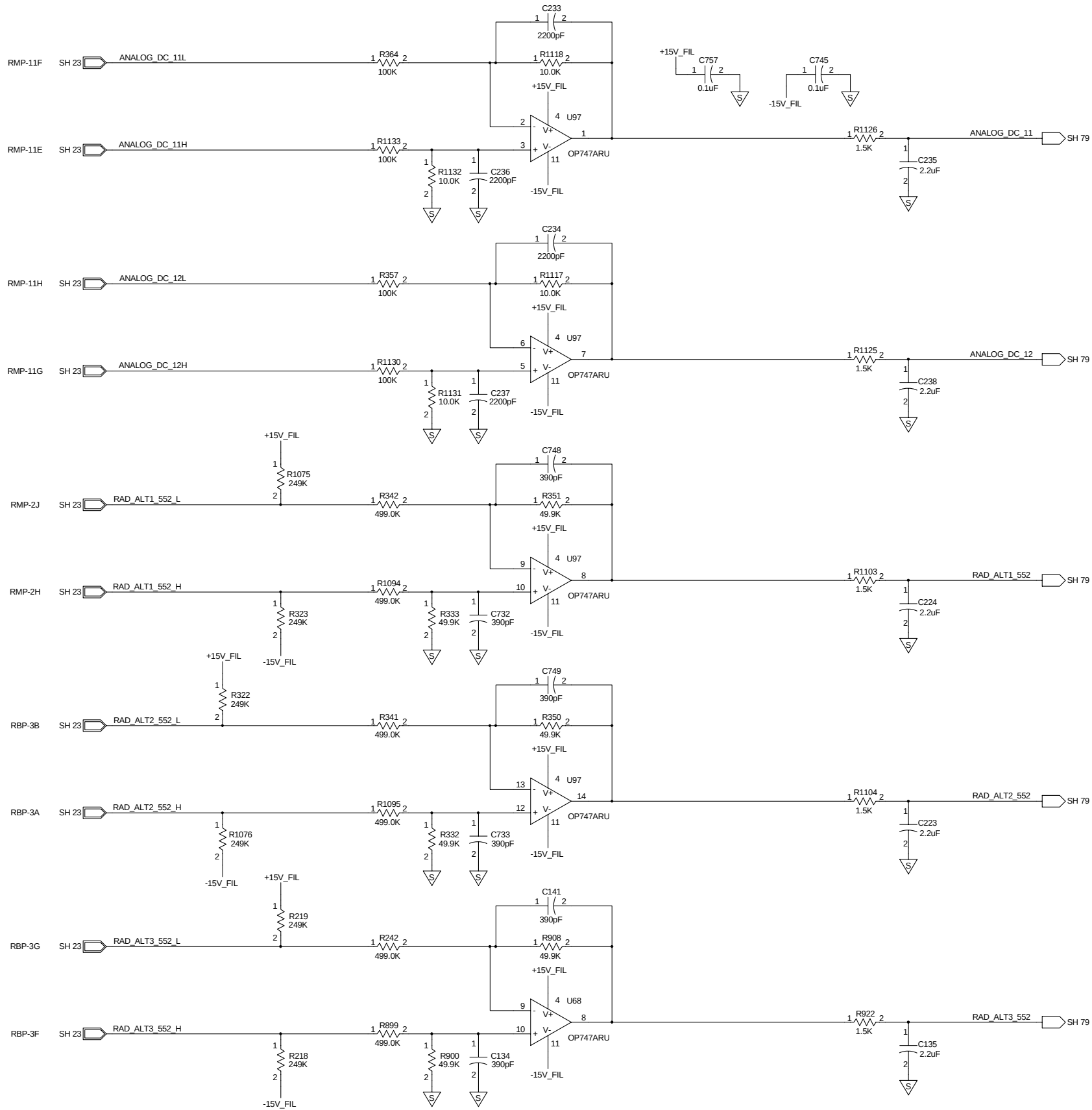
CAGE CODE
9000020-001

DWG NO.
REV
G

SCALE 1 NONE

SHEET 72

DWG. NO.	9000020-001	SH.	73	REV	G	1
REVISIONS						
REV	DESCRIPTION					
G	CHANGED R1126,R1125,R1103,R1104,R922 VALUE FROM 100K TO 1.5K. CHANGED C235,C238,C224,C223,C135 VALUE FROM 0.47uF TO 2.2uF. UPDATED SHEET NUMBER.					

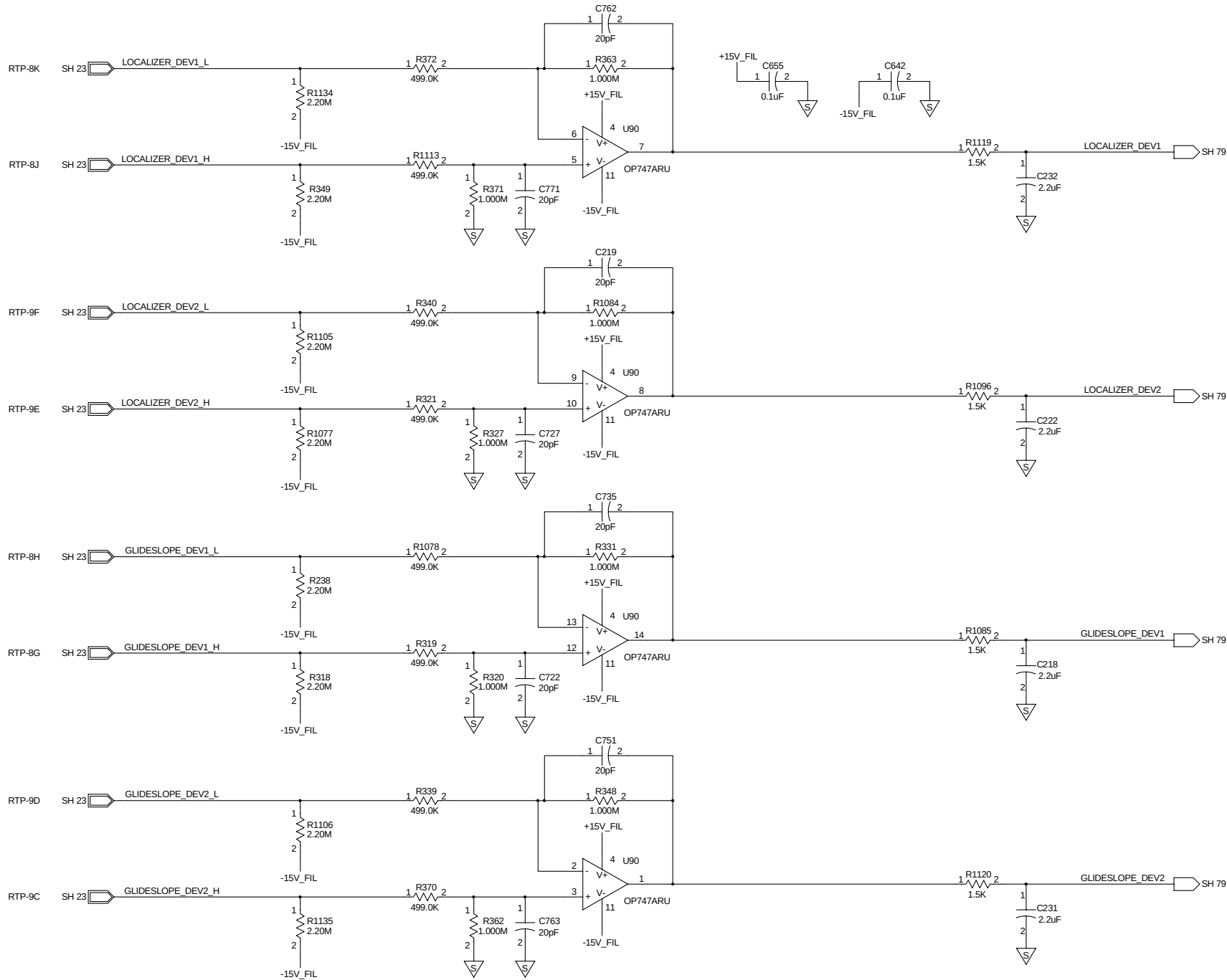


INPUT OUTPUT
ANALOG INPUTS
ANALOG 2-WIRE DC INPUTS
ANALOG 2-WIRE DC INPUTS (DEDICATED)
SHEET 12 OF 26

COMPUTER GENERATED

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	DWG. NO.	REV
				D	1WYD3	9000020-001	G
				SCALE: NONE		SHEET 73	

DWG. NO.	9000020-001	SH	74	REV	G	1
REVISIONS						
REV	DESCRIPTION					
G	CHANGED R1119,R1096,R1085,R1120 VALUE FROM 100K TO 1.5K. CHANGED C232,C222,C218,C231 VALUE FROM 0.47uF TO 2.2uF. UPDATED SHEET NUMBER.					



INPUT OUTPUT
ANALOG INPUTS
ANALOG 2-WIRE DC INPUTS (DEDICATED)
SHEET 13 OF 26

COMPUTER GENERATED

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
D 1WYD3

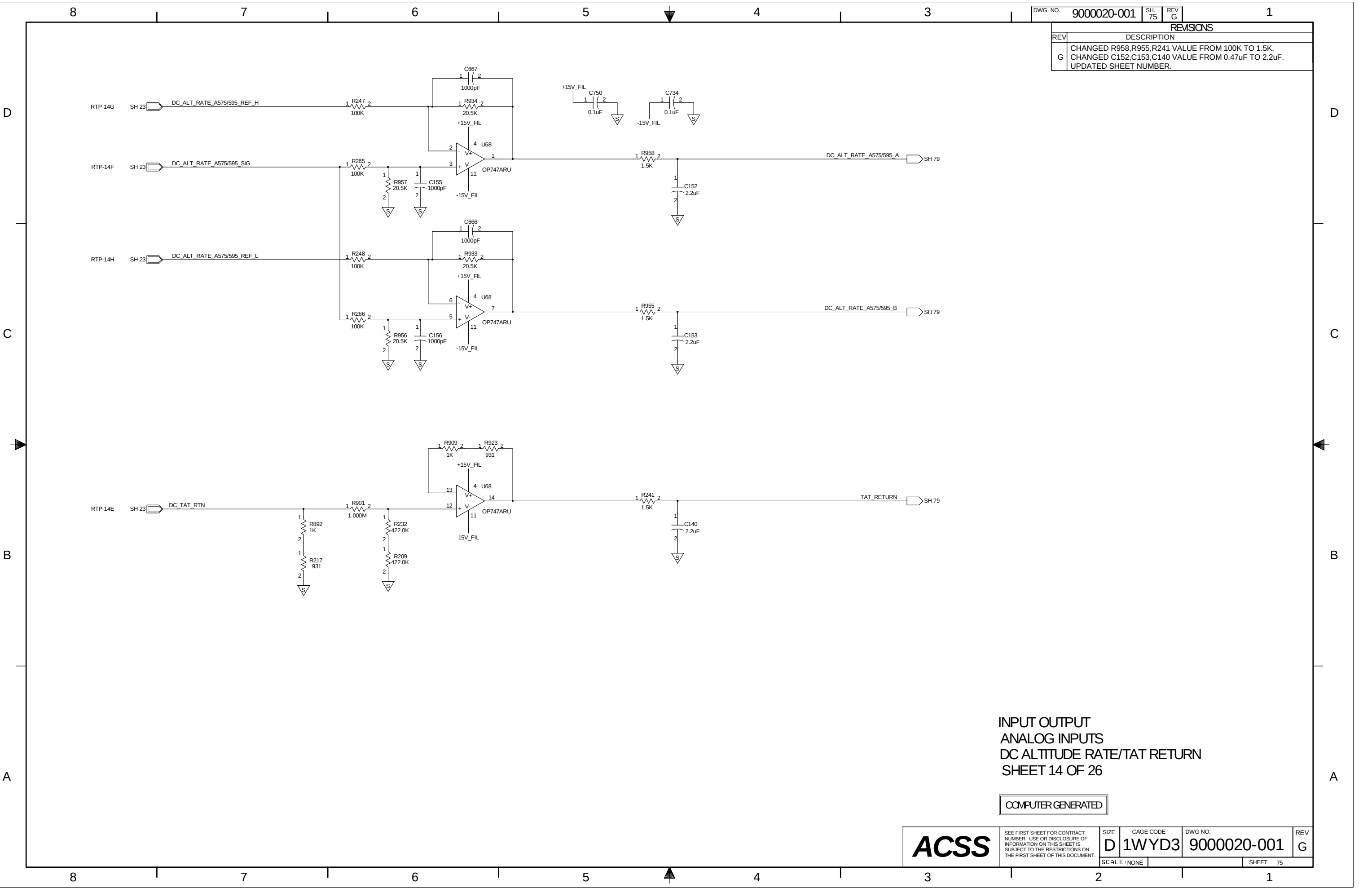
CAGE CODE
9000020-001

DWG. NO.
9000020-001

REV
G

SCALE 1 NONE

SHEET 74



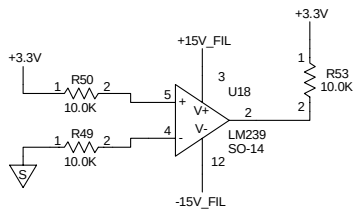
NO.		9000020-001		SH.	75	REV	G	1	
REVISIONS									
REV		DESCRIPTION							
G		CHANGED R958,R955,R241 VALUE FROM 100K TO 1.5K. CHANGED C152,C153,C140 VALUE FROM 0.47uF TO 2.2uF. UPDATED SHEET NUMBER.							

INPUT OUTPUT
ANALOG INPUTS
DC ALTITUDE RATE/TAT RETURN
SHEET 14 OF 26

COMPUTER GENERATED

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	DWG NO.	REV
		D	1WYD3	9000020-001	G
		SCALE: NONE			SHEET 75

DWG. NO.	9000020-001	SH	76	REV	G	1
REVISIONS						
REV	DESCRIPTION					
G	CHANGED VALUES: R324,R1074,R1083,R285,R1002,R970. CHANGED VR7, WAS LM431AIM3-ADJ. UPDTD SHT NUMBER.					



INPUT OUTPUT
ANALOG INPUTS
DC 5 VOLT REFERENCE/AC REFERENCE INPUTS
ACCELEROMETER SELF TEST OUTPUT CIRCUITRY
SHEET 15 OF 26

COMPUTER GENERATED

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
D 1WYD3

CAGE CODE
9000020-001

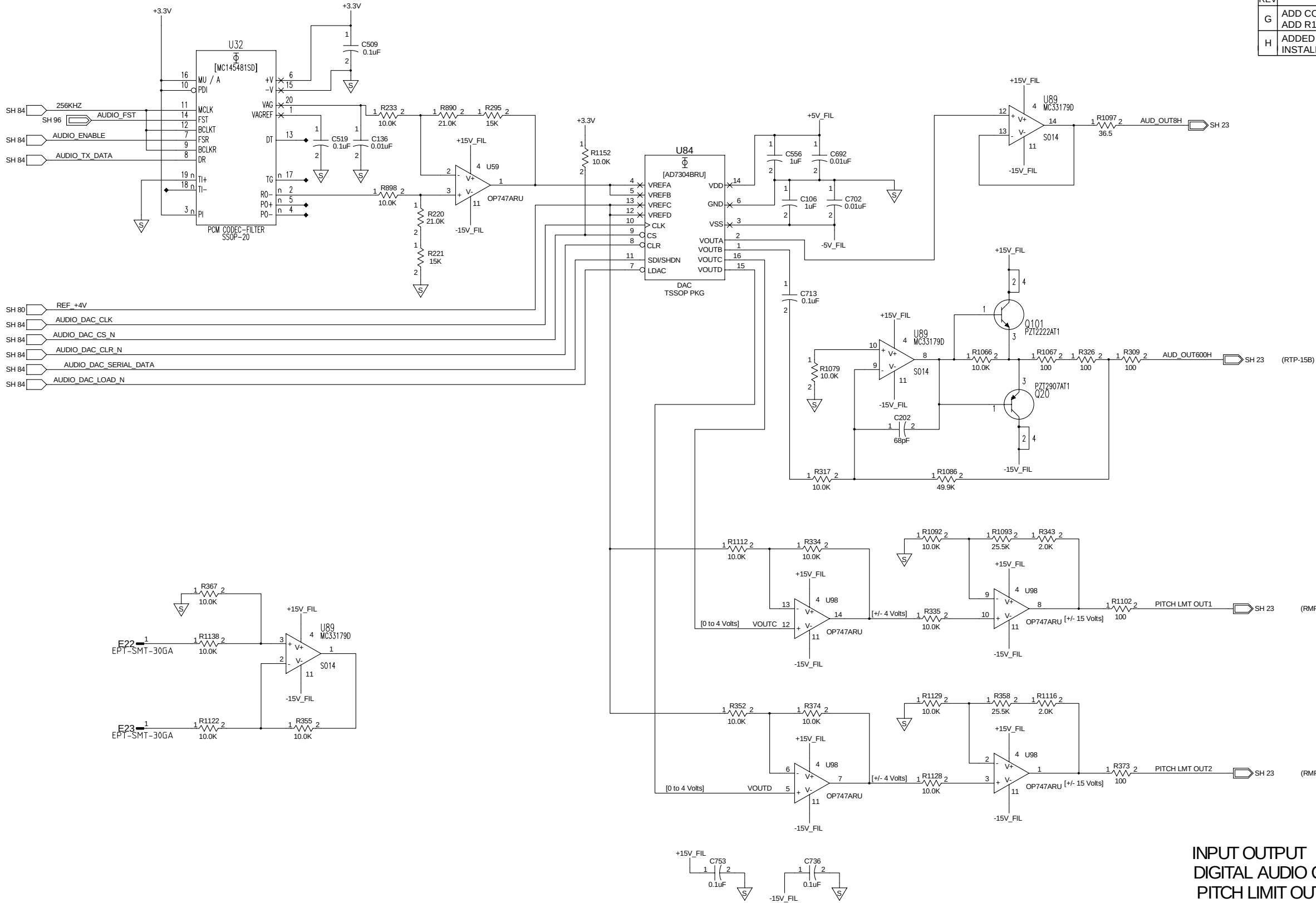
DWG NO.
9000020-001

REV
G

SCALE 1 NONE

SHEET 76

DWG. NO.	9000020-001	SH.	77	REV	H
REVISIONS					
REV	DESCRIPTION				
G	ADD CONNECTIONS: U32-11 TO U32-12 AND U32-7 TO U32-14. ADD R1152. UPDATED SHEET NUMBER.				
H	ADDED AUDIO_FST GRAPHICS TO REPRESENT BUSWIRE INSTALLED ON CCA				



INPUT OUTPUT
DIGITAL AUDIO CIRCUITRY
PITCH LIMIT OUTPUT CIRCUITRY
SHEET 16 OF 26

COMPUTER GENERATED

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	DWG. NO.	REV
D	1WYD3	9000020-001	H
SCALE: NONE		SHEET 77	

DWG. NO.	9000020-001	SH	78	REV	G
REVISIONS					
REV	DESCRIPTION				
G	UPDATED SHEET NUMBERS				

INPUT OUTPUT
ANALOG INPUTS
ANALOG MULTIPLEXERS
SHEET 17 OF 26

COMPUTER GENERATED

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	DWG NO.	REV
		D	1WYD3	9000020-001	G
		SCALE: NONE		SHEET 78	

DWG. NO.	9000020-001	SH	79	REV	G
REVISIONS					
REV	DESCRIPTION				
G	UPDATED SHEET NUMBERS				

INPUT OUTPUT
ANALOG INPUTS
ANALOG MULTIPLEXERS
SHEET 18 OF 26

COMPUTER GENERATED

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

D 1WYD3

CAGE CODE

DWG. NO.

9000020-001

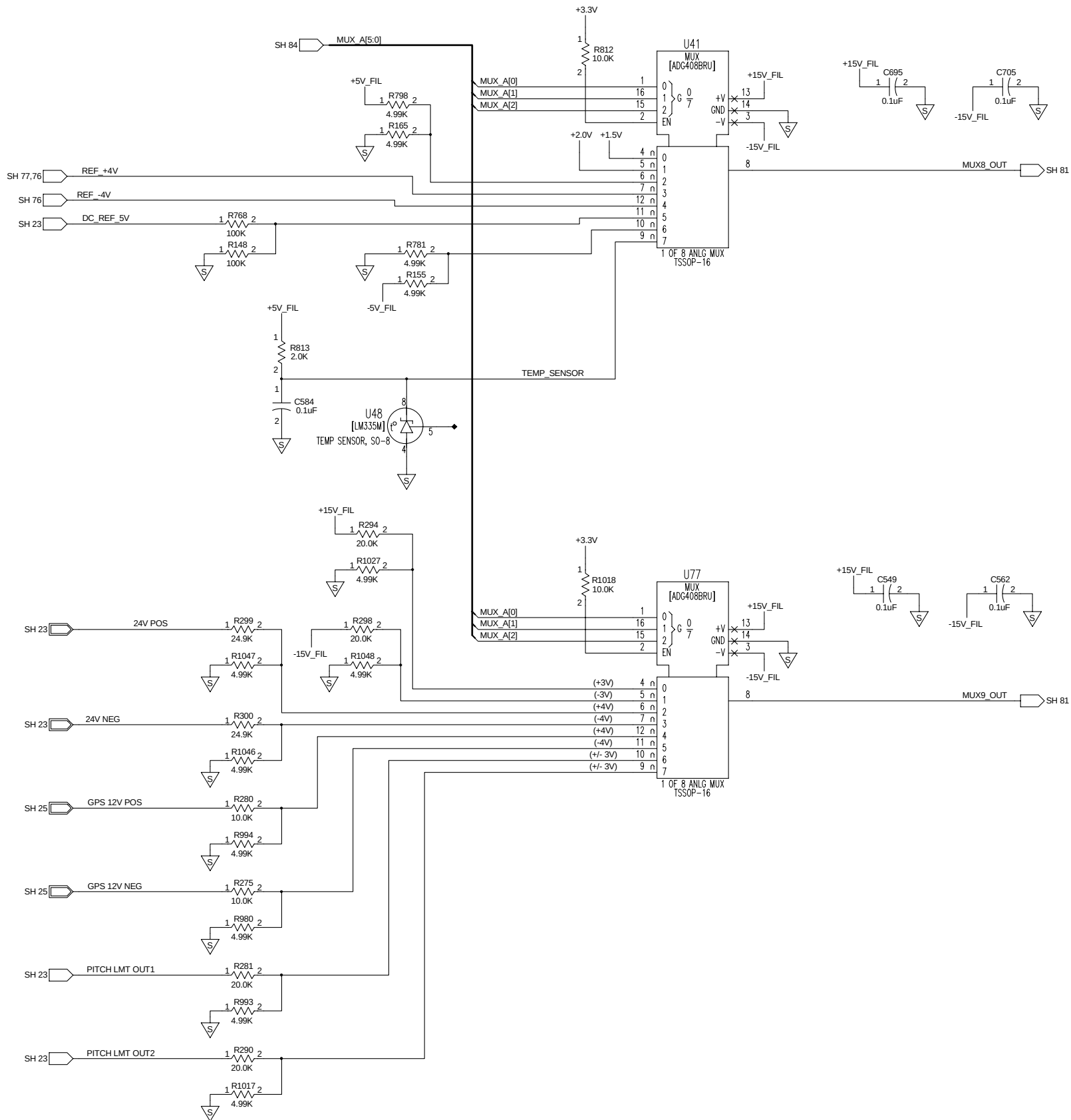
REV

G

SCALE: NONE

SHEET 79

DWG. NO.	9000020-001	SH.	80	REV	G
REVISIONS					
REV	DESCRIPTION				
G	UPDATED SHEET NUMBERS				

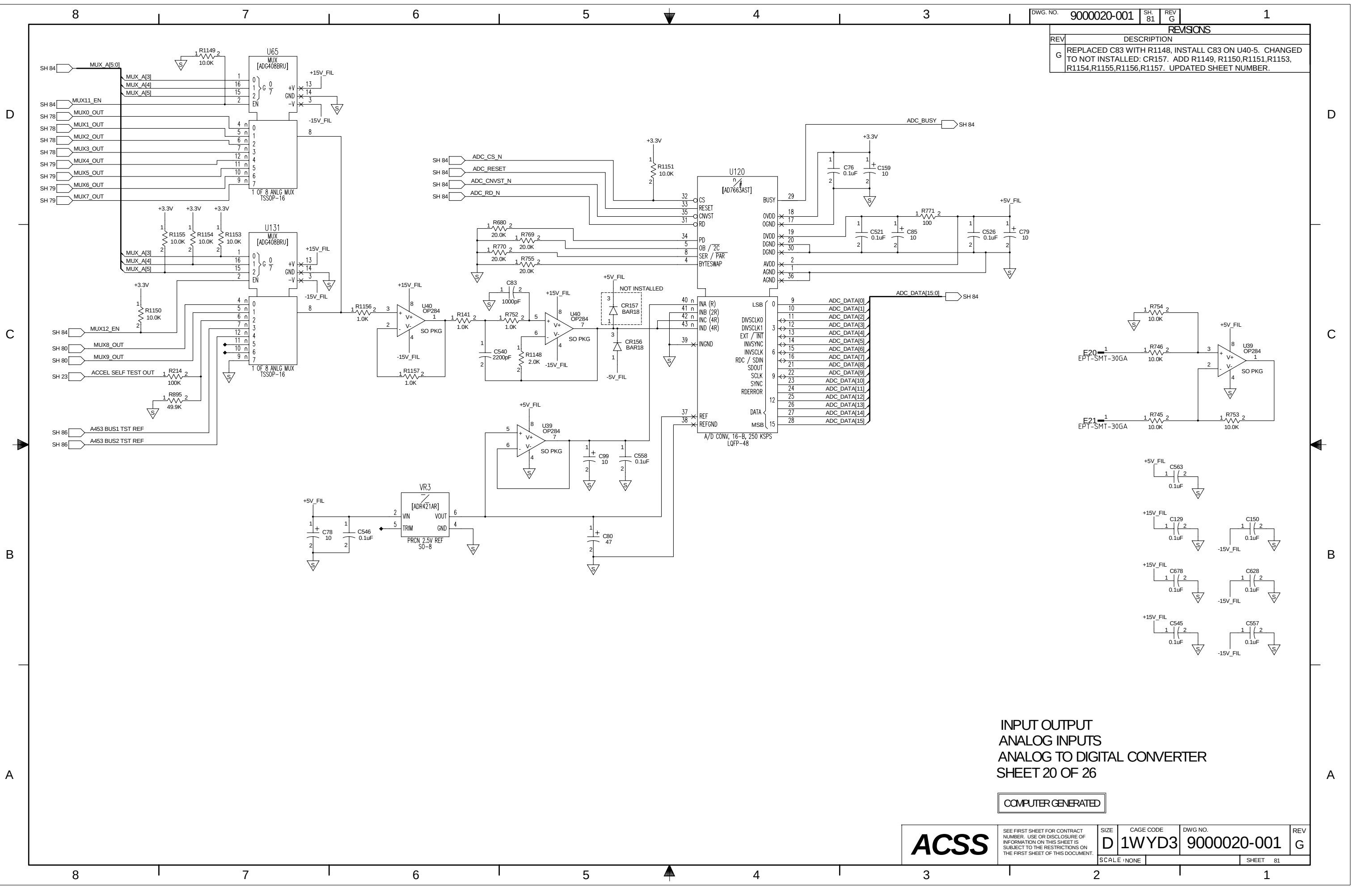


INPUT OUTPUT
ANALOG INPUTS
ANALOG MULTIPLEXERS
SHEET 19 OF 26

COMPUTER GENERATED

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	DWG NO.	REV
		D	1WYD3	9000020-001	G
		SCALE: NONE			SHEET 80

DWG. NO.	9000020-001	SH.	81	REV	G	1
REVISIONS						
REV	DESCRIPTION					
G	REPLACED C83 WITH R1148, INSTALL C83 ON U40-5. CHANGED TO NOT INSTALLED: CR157. ADD R1149, R1150, R1151, R1153, R1154, R1155, R1156, R1157. UPDATED SHEET NUMBER.					



COMPUTER GENERATED

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
D 1WYD3

CAGE CODE

DWG. NO.

9000020-001

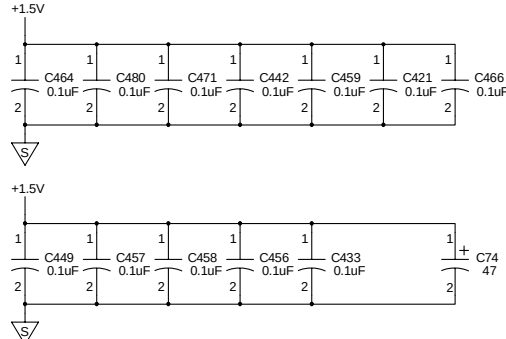
REV

G

SCALE: NONE

SHEET 81

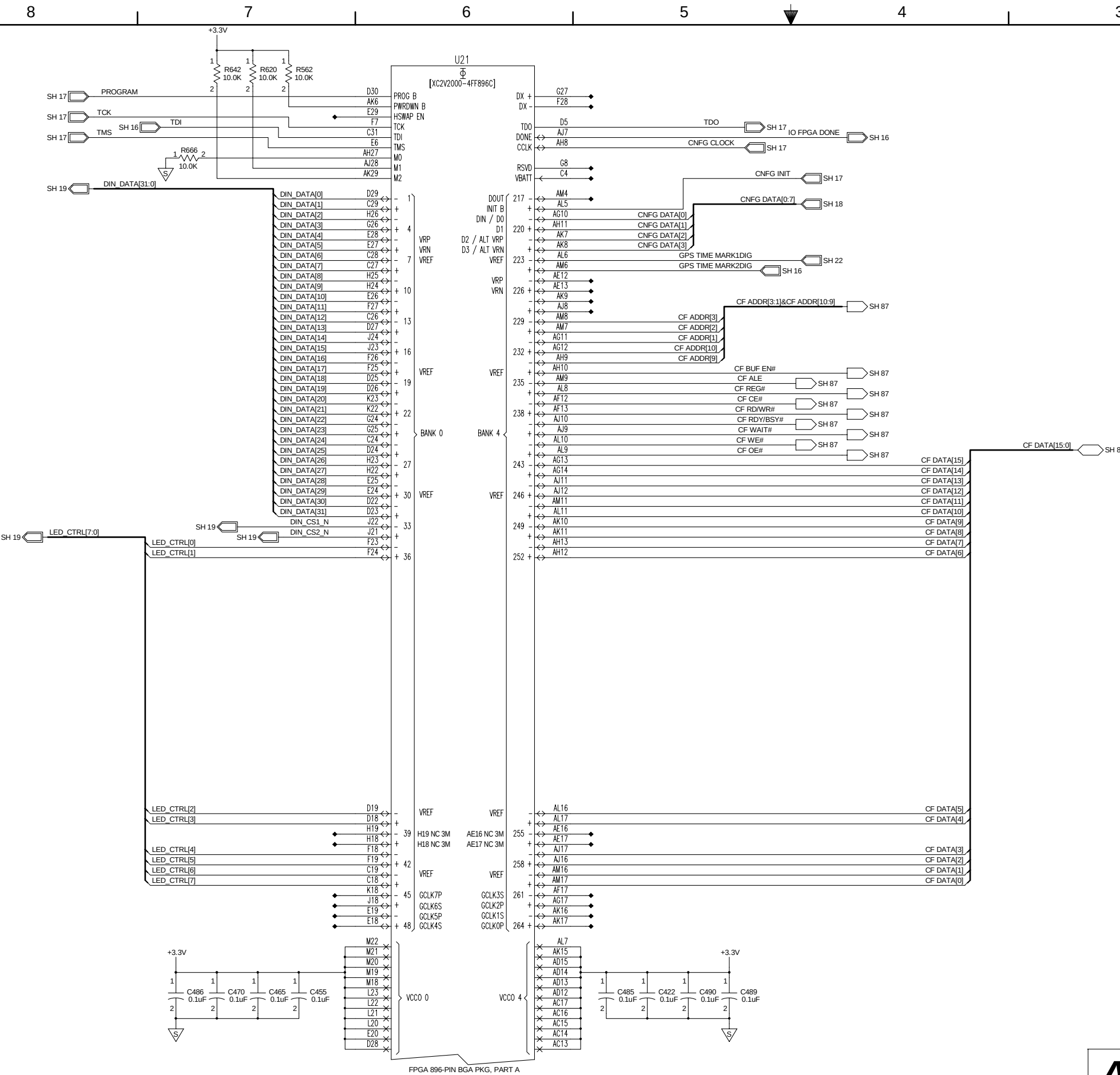
DWG. NO.	9000020-001	SH.	82	REV	G
REVISIONS					
REV	DESCRIPTION				
G	CHANGE U21 - WAS XC2V1000-4FF896C. UPDATED SHEET NUMBER.				



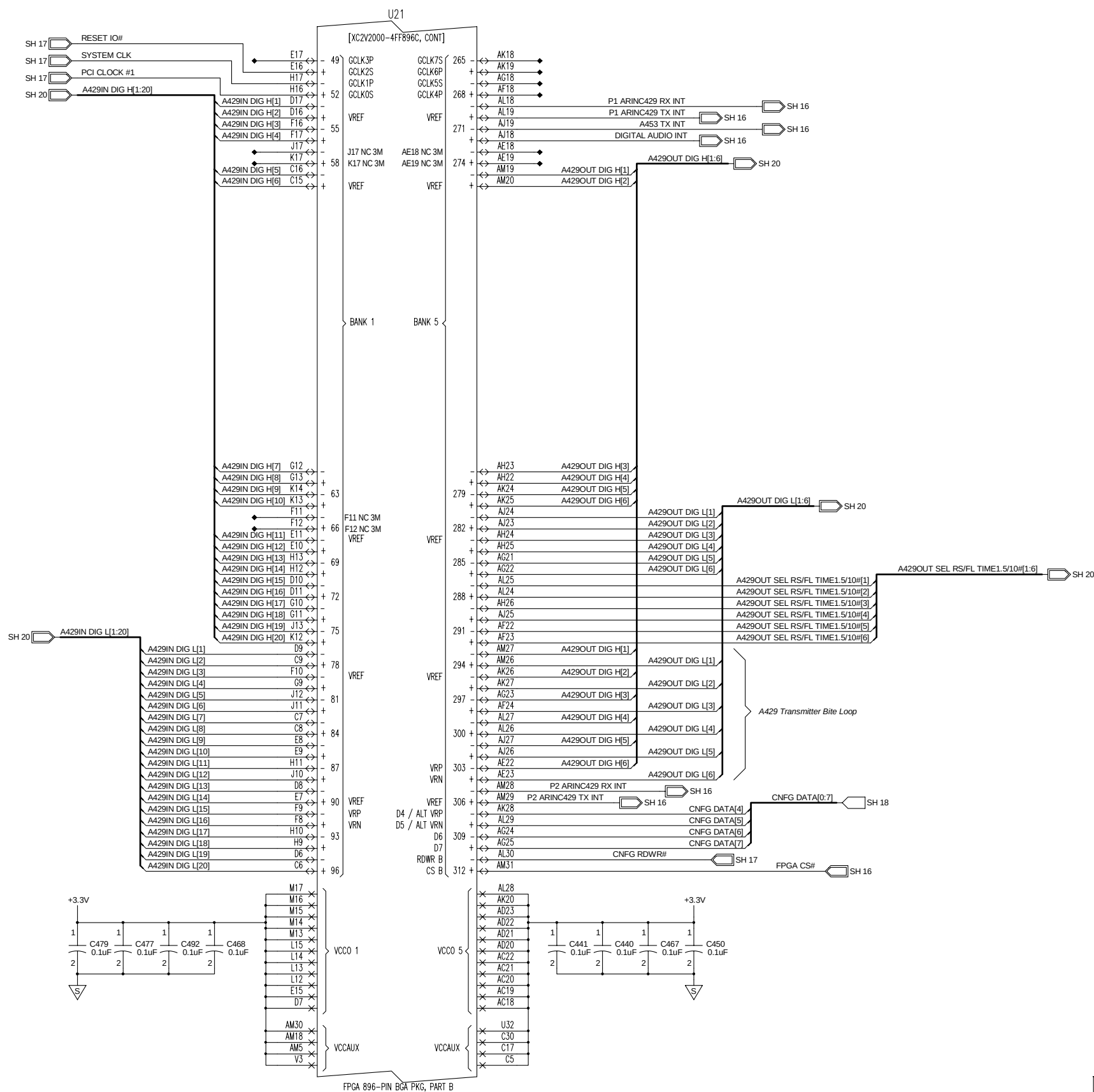
INPUT OUTPUT
I/O FPGA - PART1
SHEET 21 OF 26

COMPUTER GENERATED

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	DWG NO.	REV
		D	1WYD3	9000020-001	G
		SCALE: NONE			SHEET 82



DWG. NO.	9000020-001	SH. 83	REV. G	1
REVISIONS				
REV	DESCRIPTION			
G	CHANGE U21 - WAS XC2V1000-4FF896C. UPDATED SHEET NUMBER.			



INPUT OUTPUT
I/O FPGA - PART2
SHEET 22 OF 26

COMPUTER GENERATED

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
D 1WYD3

CAGE CODE
9000020-001

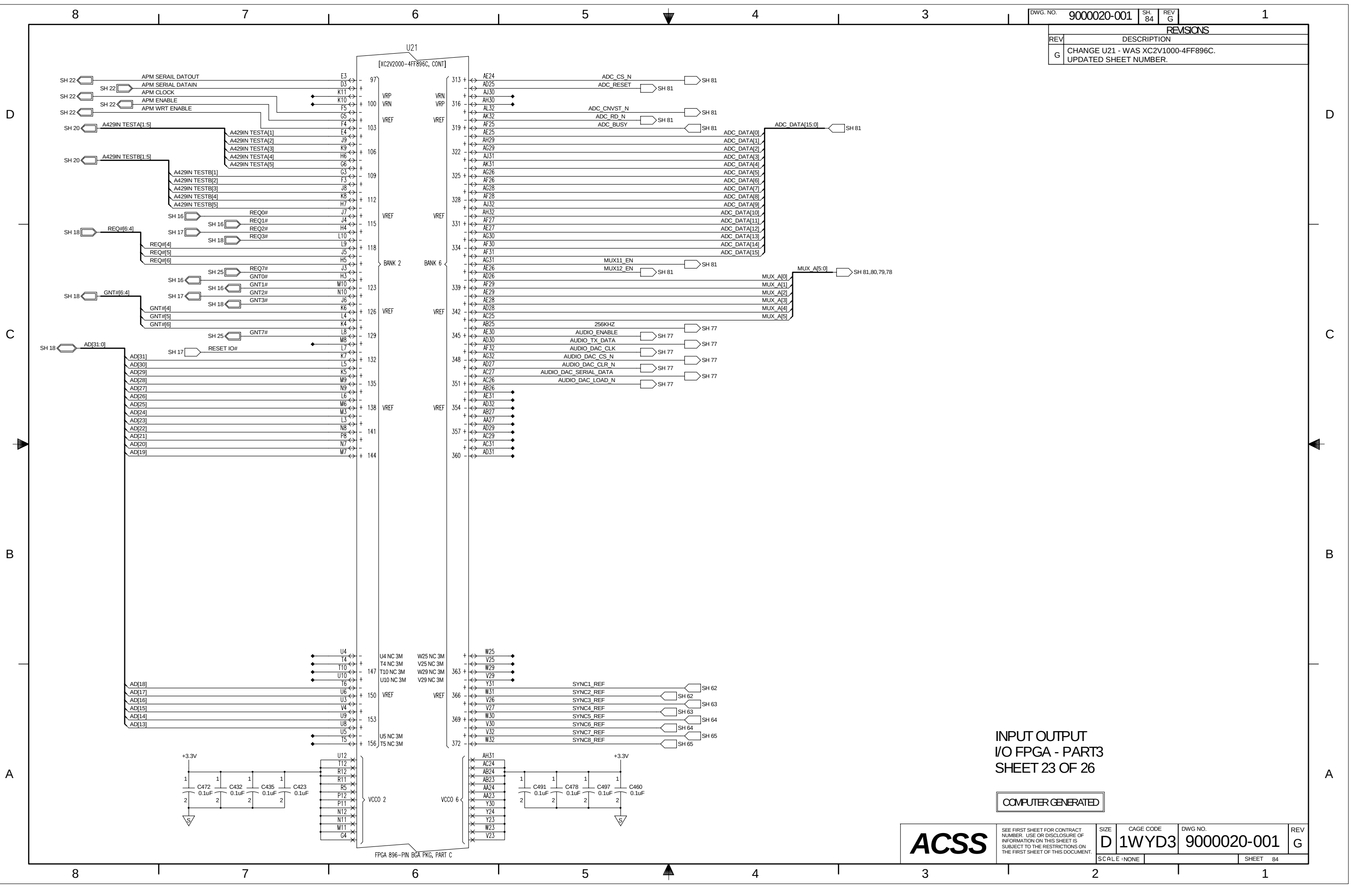
DWG. NO.
9000020-001

REV
G

SCALE: NONE

SHEET 83

DWG. NO.	9000020-001	SH. 84	REV. G	1
REVISIONS				
REV	DESCRIPTION			
G	CHANGE U21 - WAS XC2V1000-4FF896C. UPDATED SHEET NUMBER.			

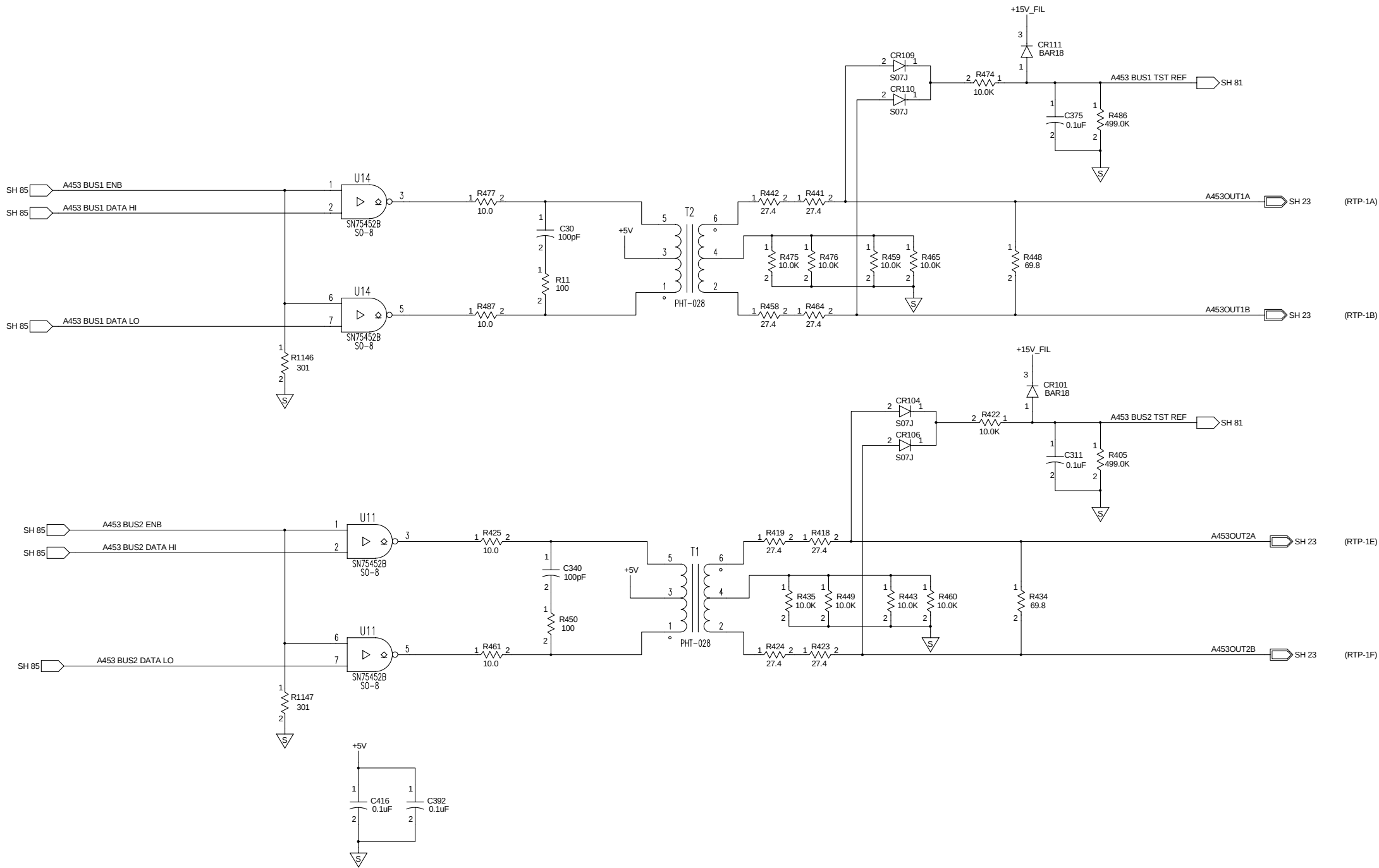


INPUT OUTPUT
I/O FPGA - PART3
SHEET 23 OF 26

COMPUTER GENERATED

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 D	CAGE CODE 1WYD3	DWG NO. 9000020-001	REV G
			SCALE 1 NONE		SHEET 84	

DWG. NO.	9000020-001	SH. 86	REV G	1
REVISIONS				
REV	DESCRIPTION			
G	CHANGE U11 & U14 - WAS SN75451B, ADD R1146, R1147. CHANGE C311 & C375 - WAS 1000pF. UPDATE SHEET NUMBER.			



INPUT OUTPUT
ARINC 453 BUS DRIVERS
SHEET 25 OF 26

COMPUTER GENERATED

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
D 1WYD3

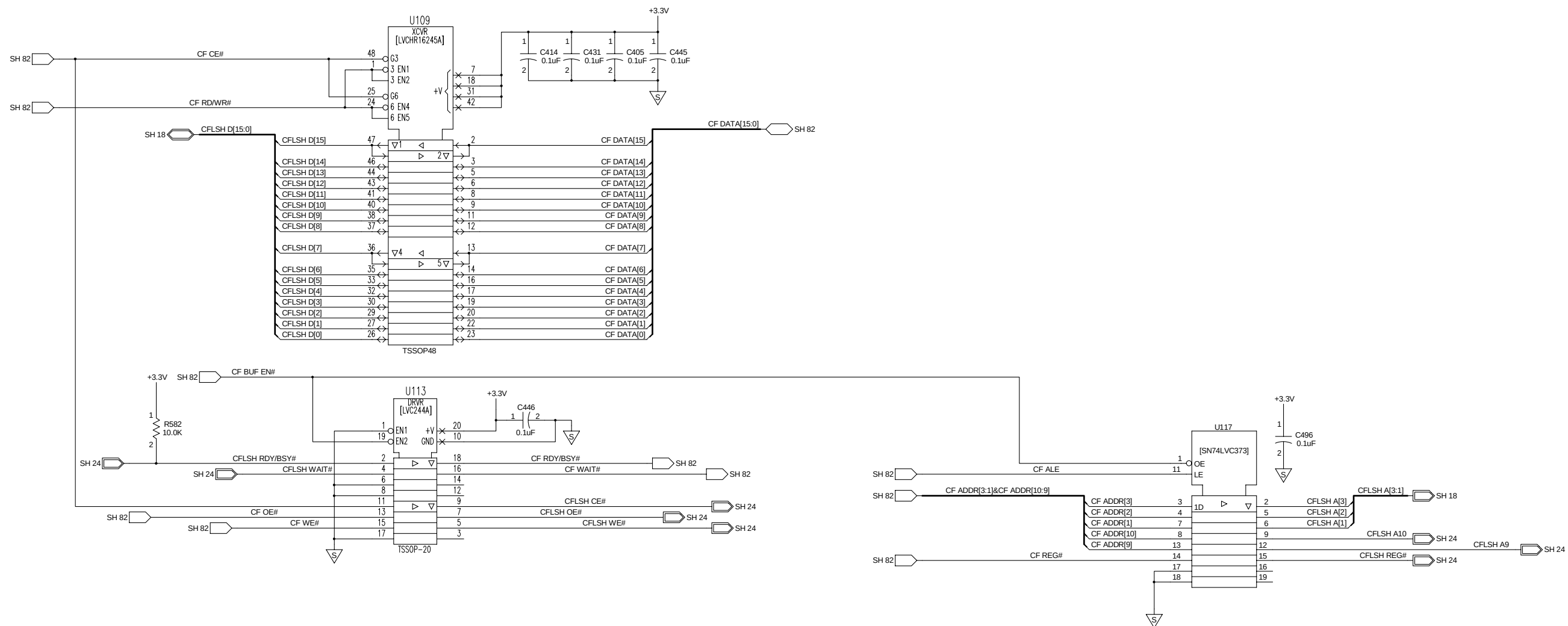
CAGE CODE
9000020-001

DWG. NO.
REV G

SCALE: NONE

SHEET 86

DWG. NO.	9000020-001	SH.	87	REV	G	1
REVISIONS						
REV	DESCRIPTION					
G	UPDATED SHEET NUMBERS					

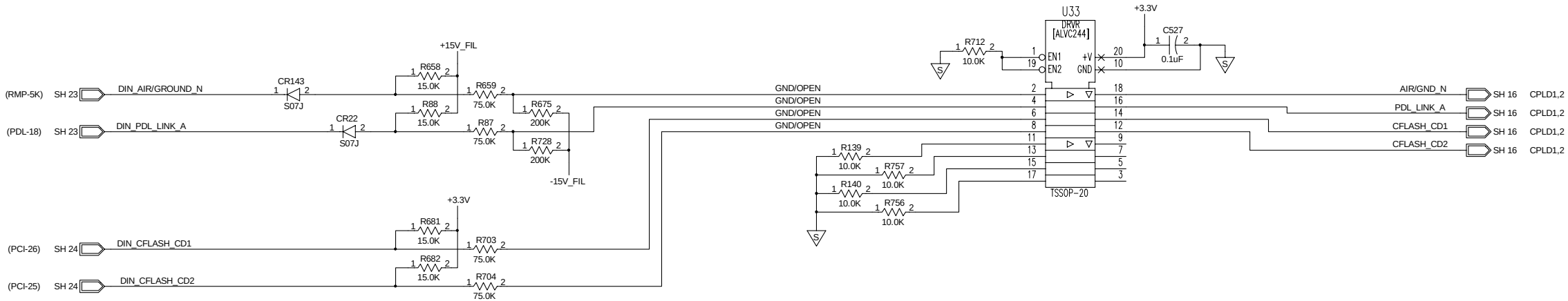


INPUT OUTPUT
COMPACT FLASH INTERFACE
SHEET 26 OF 26

COMPUTER GENERATED

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.					REV	G
	SIZE	D	CAGE CODE	1WYD3	DWG. NO.	9000020-001	
	SCALE	NONE			SHEET	87	

DWG. NO.	9000020-001	SH.	88	REV	G
REVISIONS					
REV	DESCRIPTION				
G	UPDATED SHEET NUMBERS				



DISCRETE INPUT OUTPUT
DISCRETE INPUTS
SHEET 1 OF 9

COMPUTER GENERATED

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	DWG NO.	REV
		D	1WYD3	9000020-001	G
		SCALE: NONE		SHEET 88	

DWG. NO.	9000020-001	SH.	89	REV	G
REVISIONS					
REV	DESCRIPTION				
G	UPDATED SHEET NUMBERS. ADDED R1141.				

D

D

C

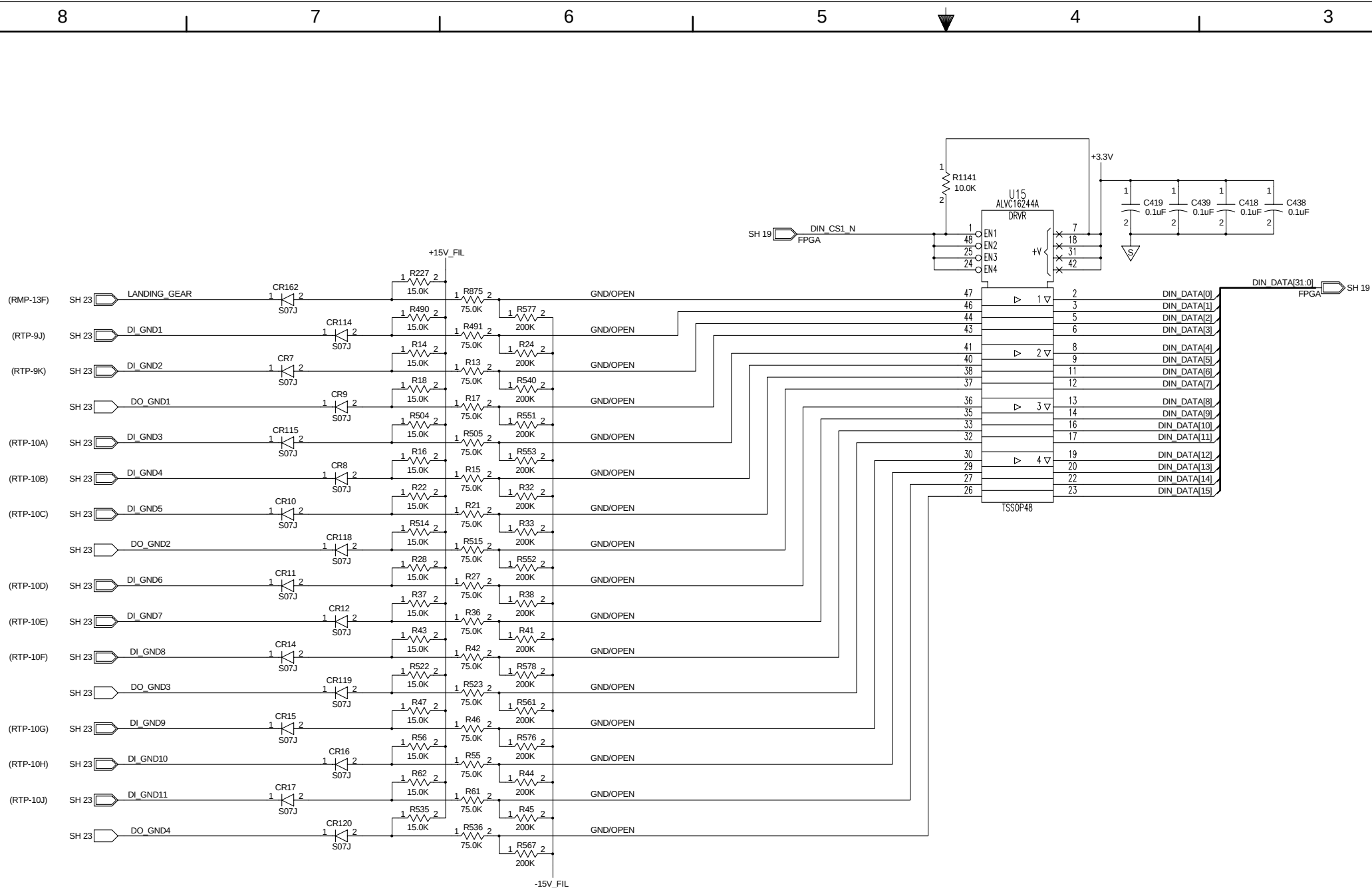
C

B

B

A

A

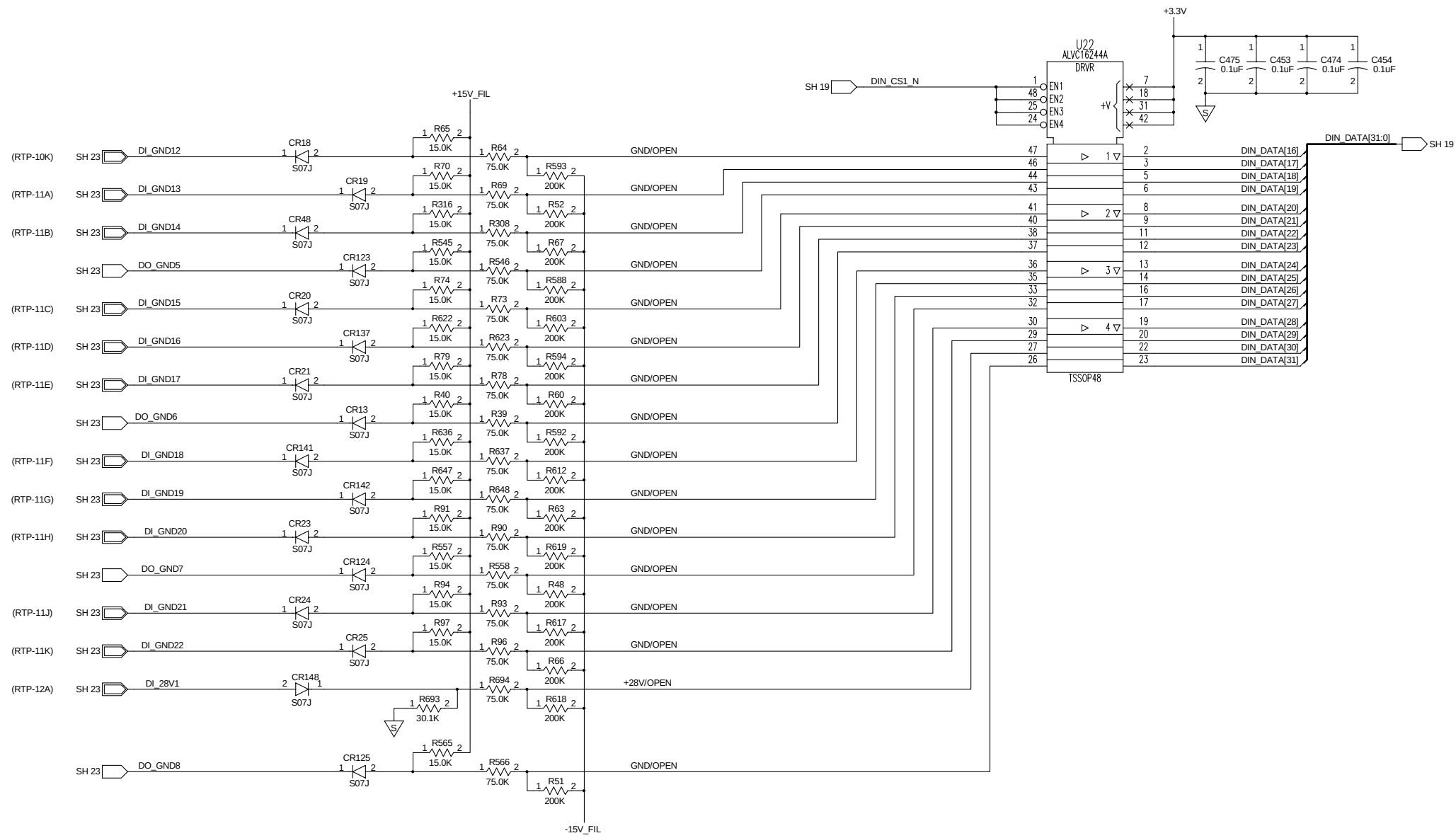


DISCRETE INPUT OUTPUT
DISCRETE INPUTS
SHEET 2 OF 9

COMPUTER GENERATED

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	DWG NO.	REV
		D	1WYD3	9000020-001	G
		SCALE: NONE			SHEET 89

DWG. NO.	9000020-001	SH.	90	REV	G
REVISIONS					
REV	DESCRIPTION				
G	UPDATED SHEET NUMBERS				



DWG. NO.	9000020-001	SH.	91	REV	G
REVISIONS					
REV	DESCRIPTION				
G	UPDATED SHEET NUMBERS. ADDED R1142.				

D

D

C

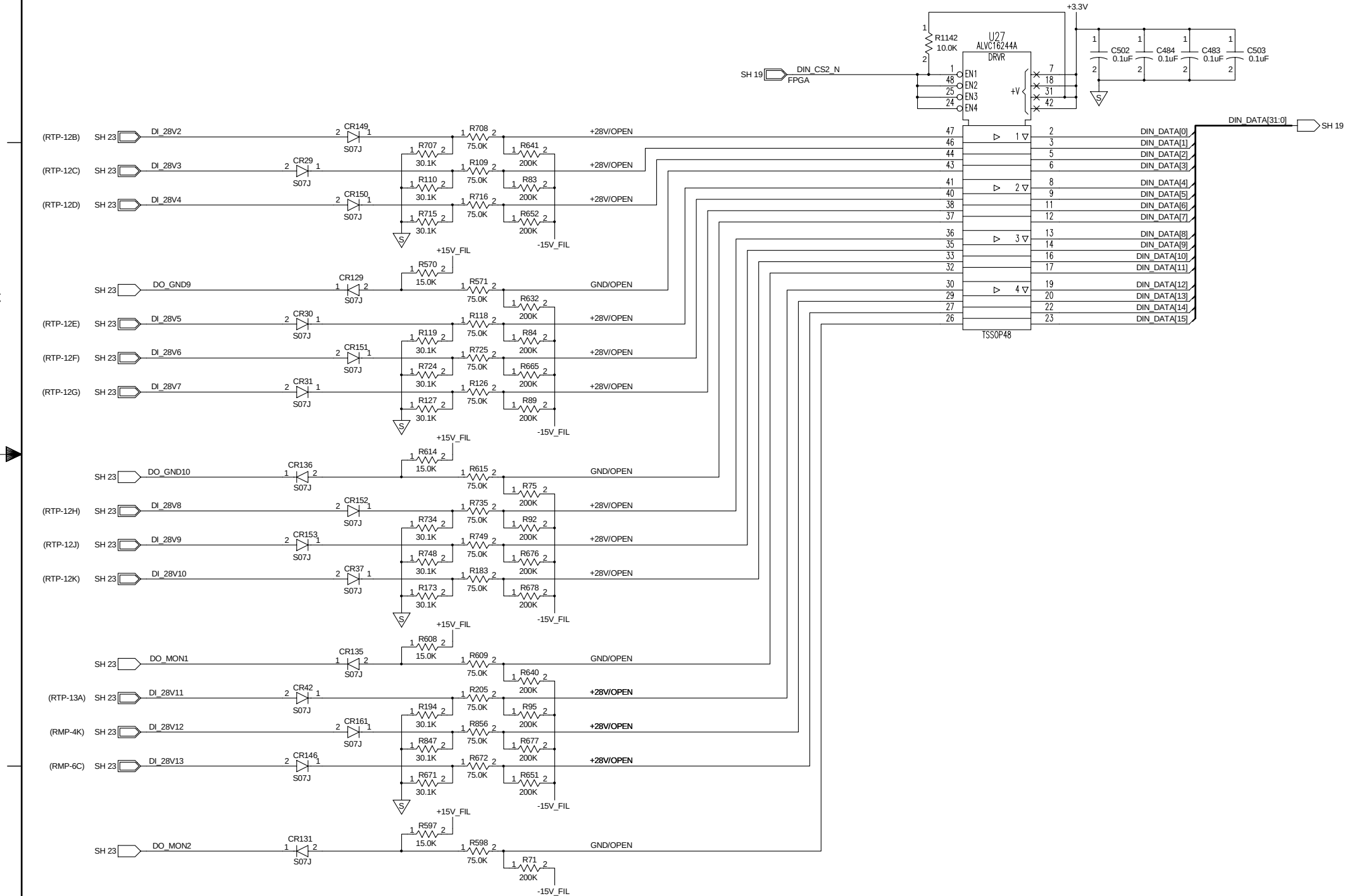
C

B

B

A

A

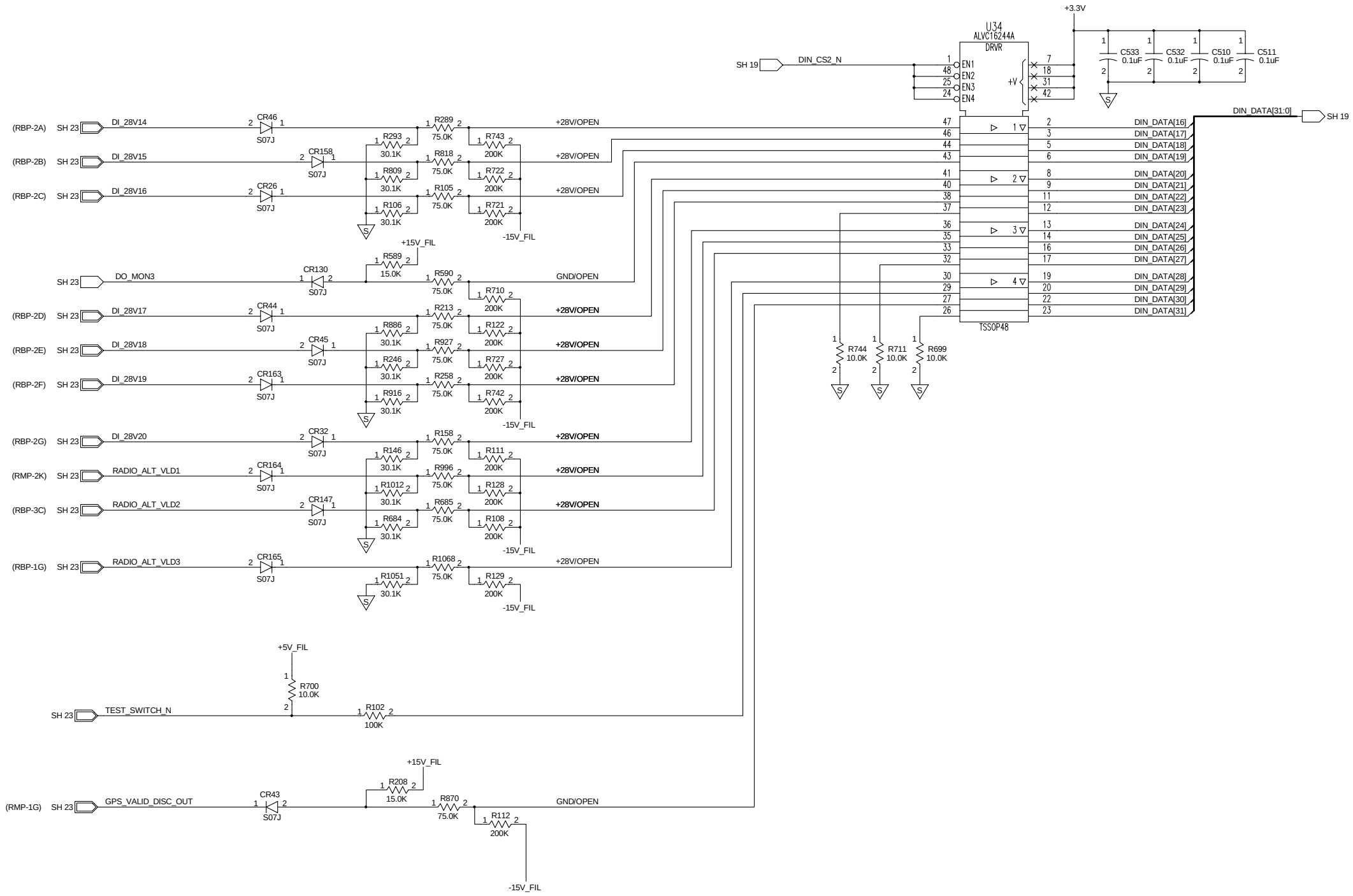


DISCRETE INPUT OUTPUT
DISCRETE INPUTS
SHEET 4 OF 9

COMPUTER GENERATED

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	DWG NO.	REV
		D	1WYD3	9000020-001	G
		SCALE: NONE			SHEET 91

DWG. NO.	9000020-001	SH	92	REV	G
REVISIONS					
REV	DESCRIPTION				
G	UPDATED SHEET NUMBERS				

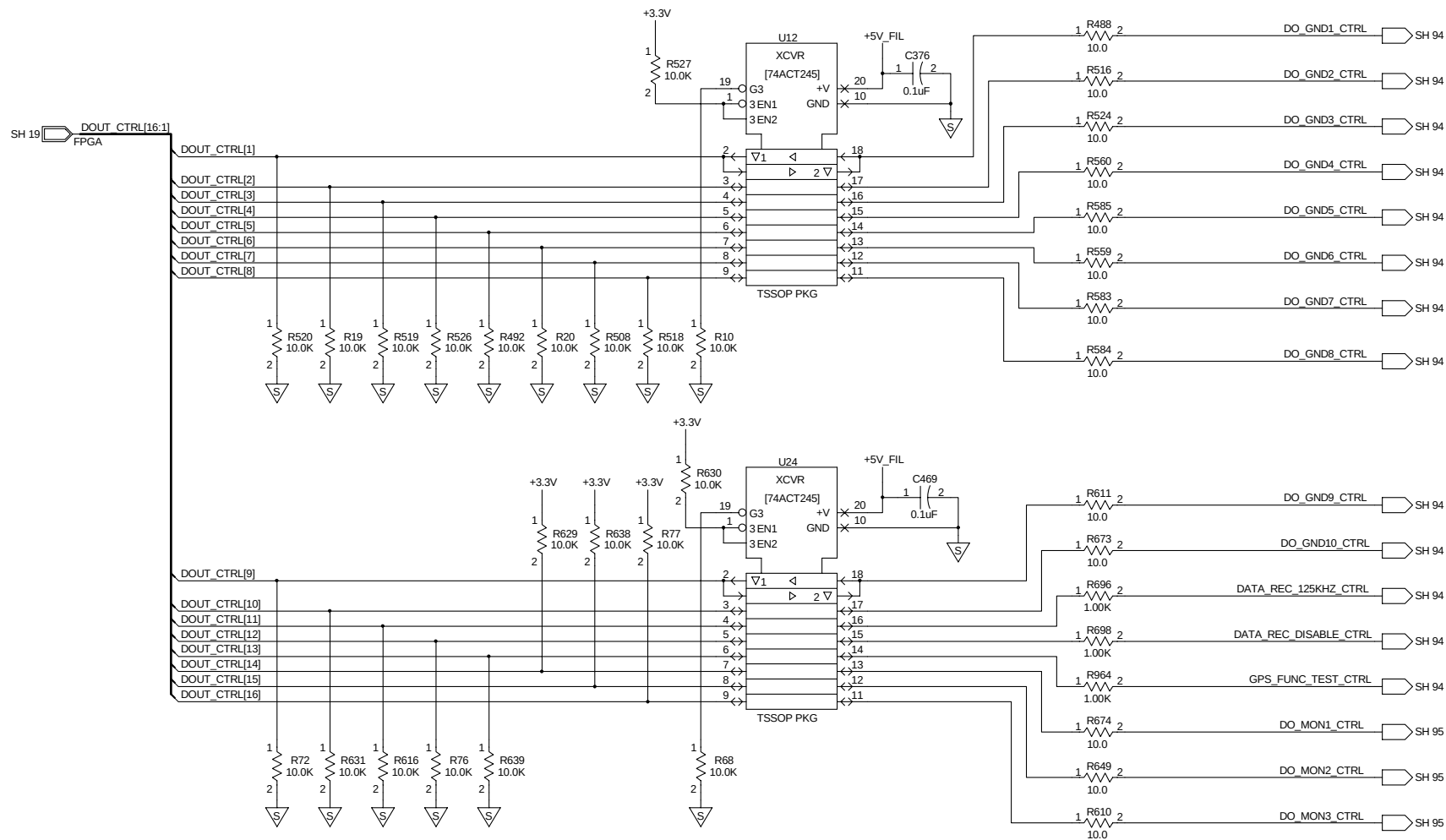


DISCRETE INPUT OUTPUT
DISCRETE INPUTS
SHEET 5 OF 9

COMPUTER GENERATED

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 D	CAGE CODE 1WYD3	DWG NO. 9000020-001	REV G
SCALE: NONE		SHEET 92				

DWG. NO.	9000020-001	SH.	93	REV	G
REVISIONS					
REV	DESCRIPTION				
G	UPDATED SHEET NUMBERS				

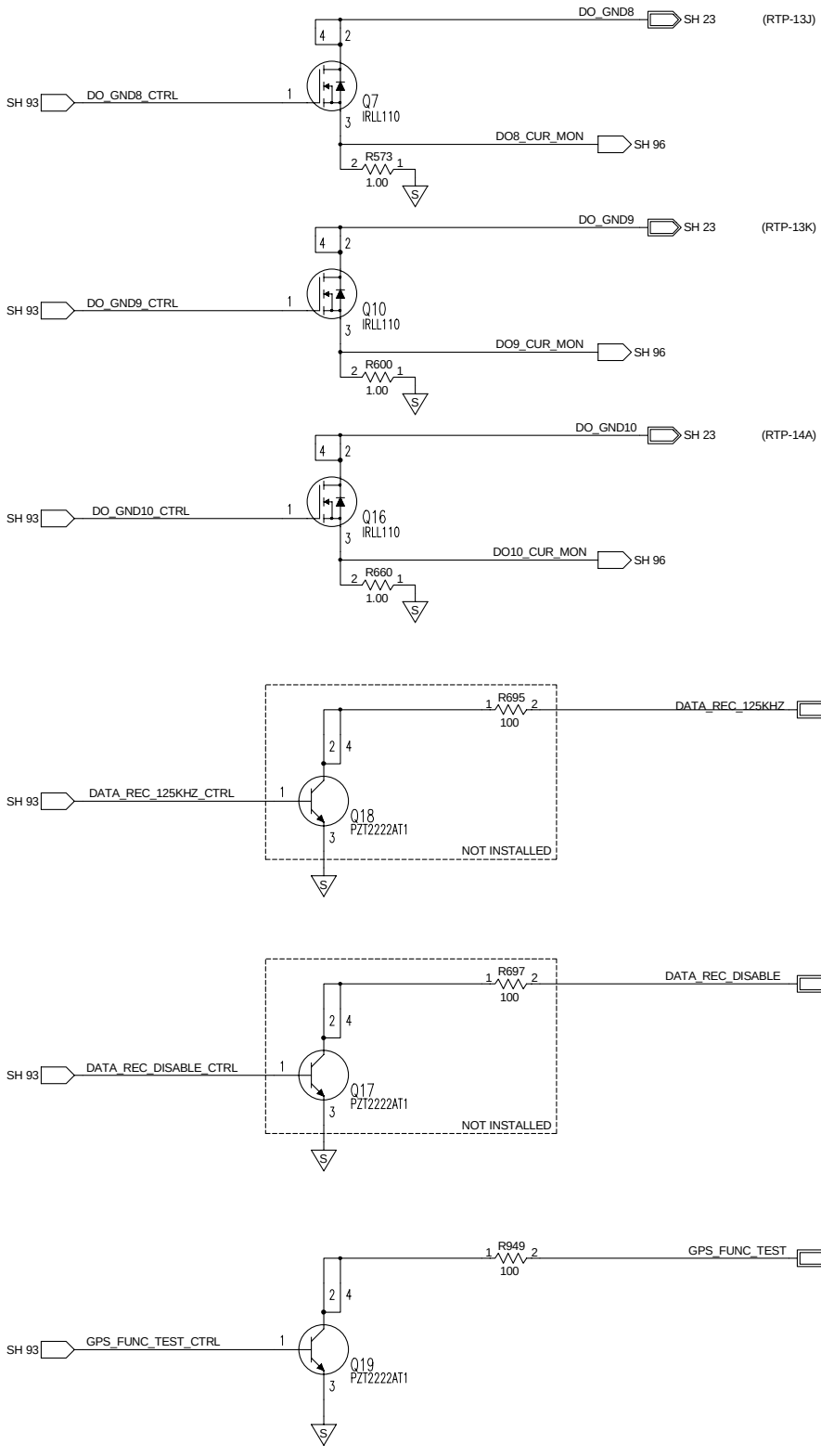
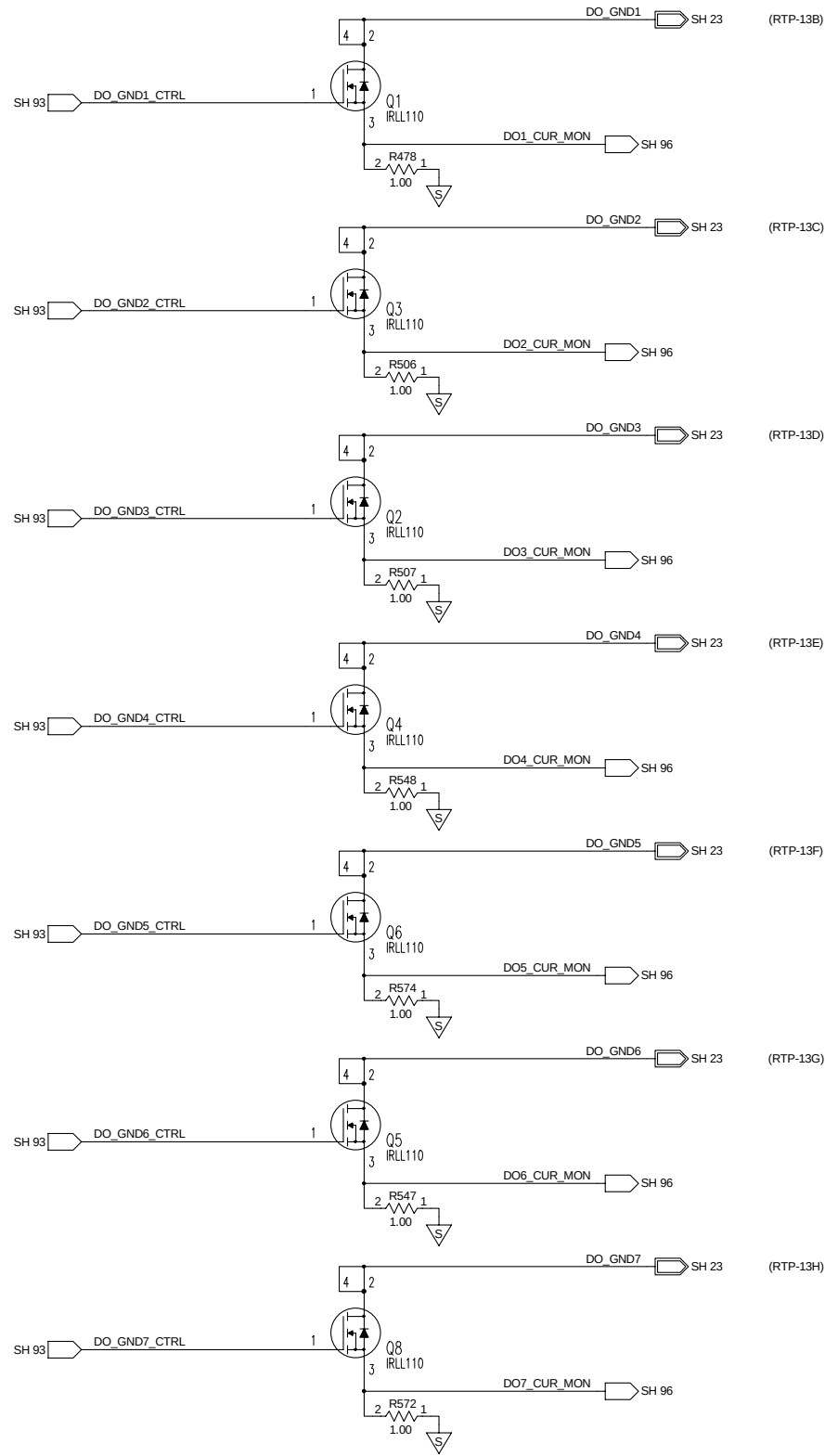


DISCRETE INPUT OUTPUT
GND/OPEN DISCRETE OUTPUT DRIVERS
SHEET 6 OF 9

COMPUTER GENERATED

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	DWG NO.	REV
		D	1WYD3	9000020-001	G
		SCALE: NONE			SHEET 93

DWG. NO.	9000020-001	SH.	94	REV	G
REVISIONS					
REV	DESCRIPTION				
G	UPDATED SHEET NUMBERS				

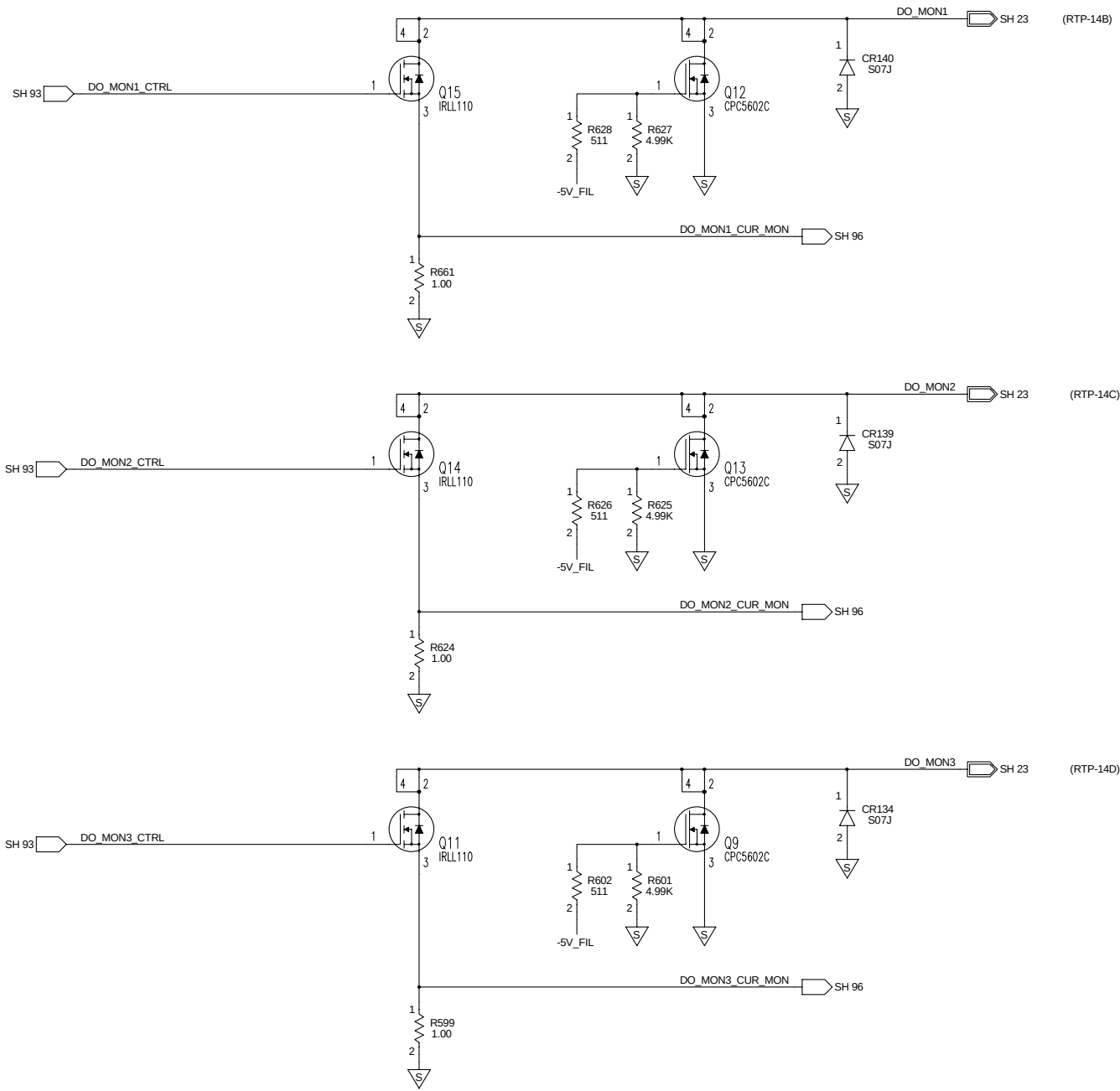


DISCRETE INPUT OUTPUT
GND/OPEN DISCRETE OUTPUTS
WITH OVERCURRENT PROTECTION
SHEET 7 OF 9

COMPUTER GENERATED

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 D	CAGE CODE 1WYD3	DWG NO. 9000020-001	REV G
			SCALE NONE		SHEET 94	

DWG. NO.	9000020-001	SH. 95	REV. G
REVISIONS			
REV	DESCRIPTION		
G	UPDATED SHEET NUMBERS		

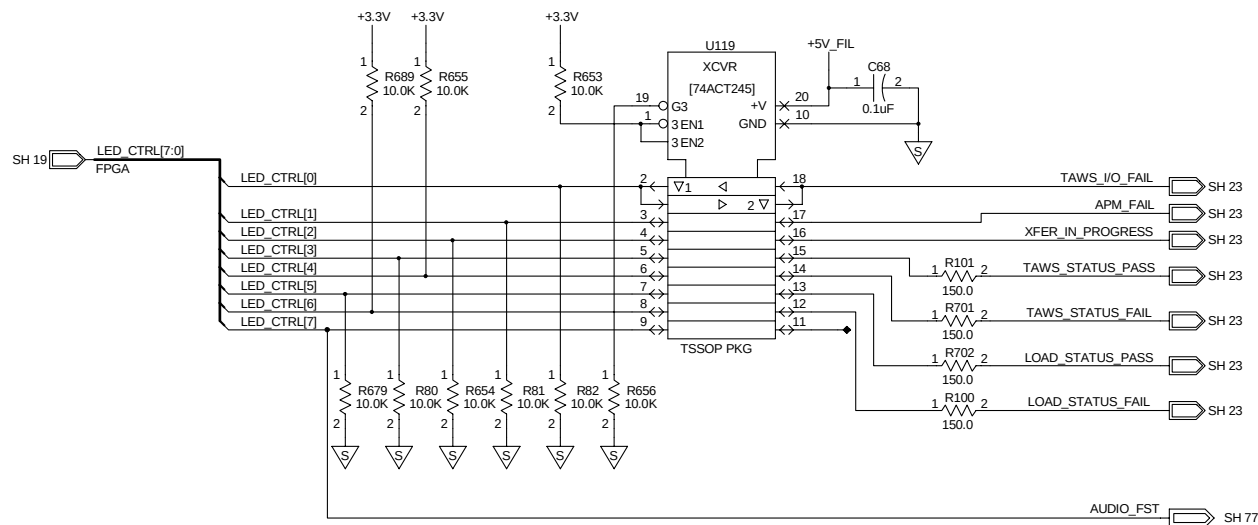
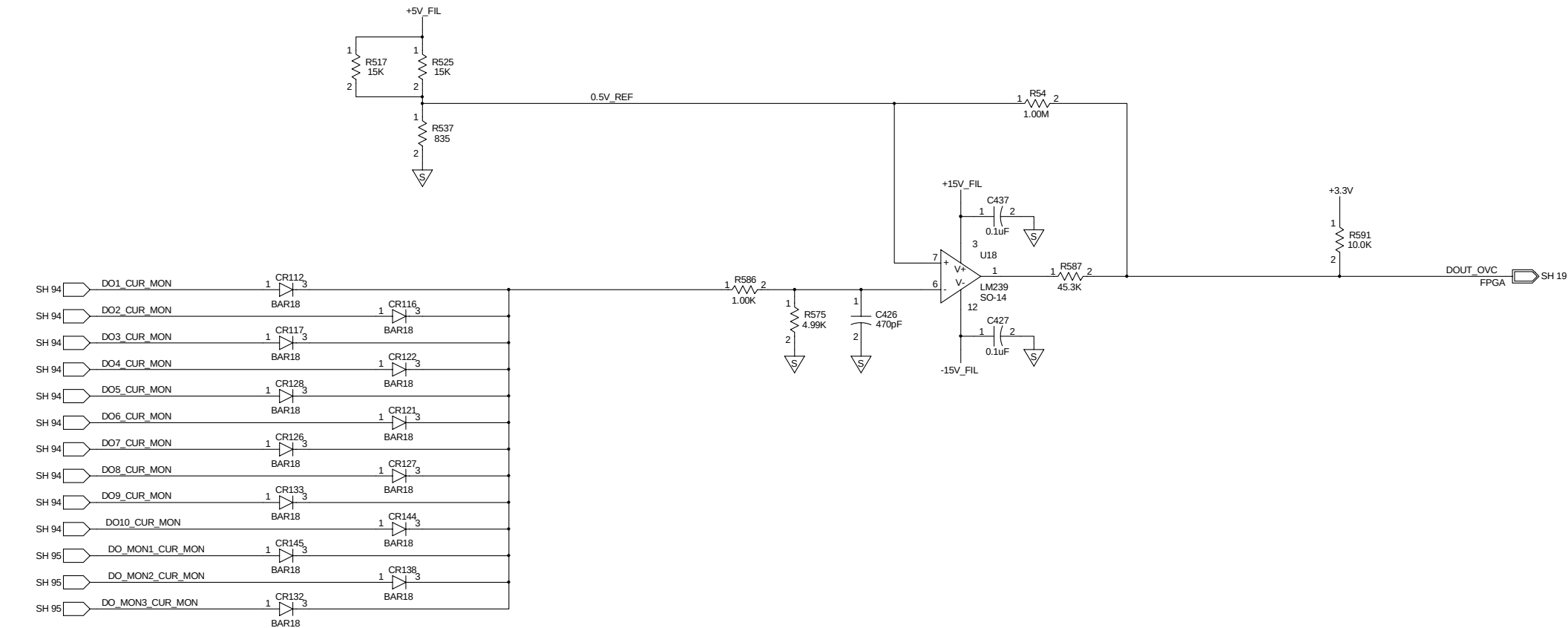


DISCRETE INPUT OUTPUT
GND/OPEN DISCRETE OUTPUT MONITORS
WITH OVERCURRENT PROTECTION
SHEET 8 OF 9

COMPUTER GENERATED

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	DWG NO.	REV
		D	1WYD3	9000020-001	G
		SCALE: NONE			SHEET 95

DWG. NO.	9000020-001	SH.	96	REV.	H
REVISIONS					
REV	DESCRIPTION				
G	UPDATED SHEET NUMBERS				
H	ADDED AUDIO_FST GRAPHICS TO REPRESENT BUSWIRE INSTALLED ON CCA				

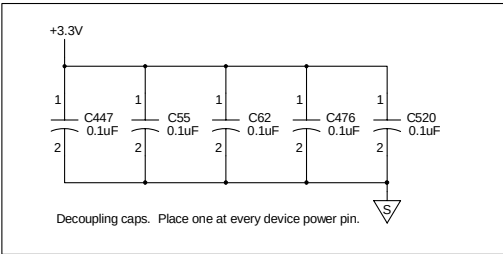
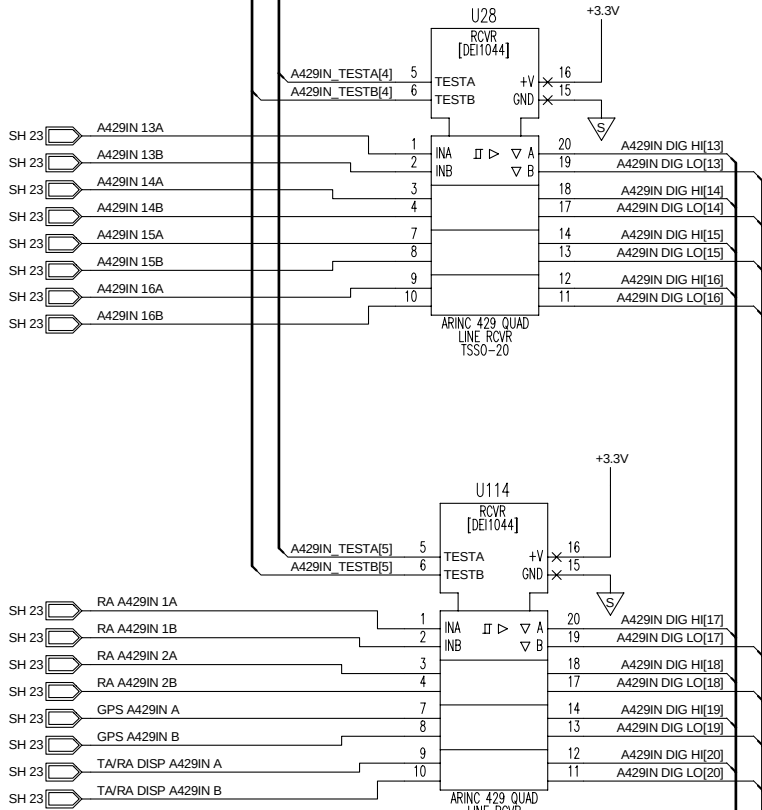
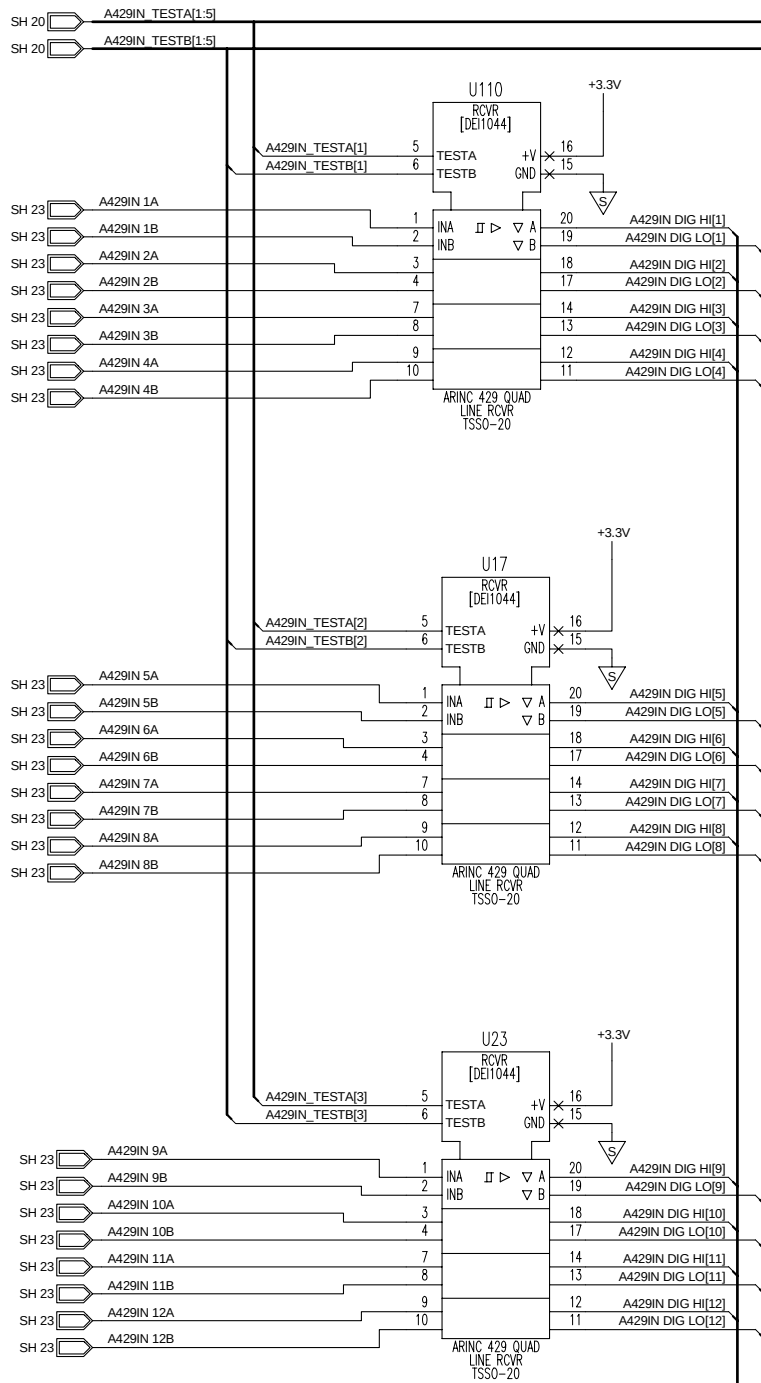


DISCRETE INPUT OUTPUT
GND/OPEN DISCRETE OUTPUTS
OVERCURRENT PROTECTION CIRCUITRY
FRONT PANEL LED DRIVER CIRCUITRY
SHEET 9 OF 9

COMPUTER GENERATED

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	DWG NO.	REV
		D	1WYD3	9000020-001	H
		SCALE: NONE		SHEET 96	

DWG. NO.	9000020-001	SH.	97	REV	G	1
REVISIONS						
REV	DESCRIPTION					
G	UPDATED SHEET NUMBERS					



A429IN DIG LO[1:20] SH 20
A429IN DIG HI[1:20] SH 20

A429 INPUT OUTPUT
ARINC 429 - INPUT
SHEET NO. 1 OF 3

COMPUTER GENERATED

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
D 1WYD3

CAGE CODE

DWG. NO.

9000020-001

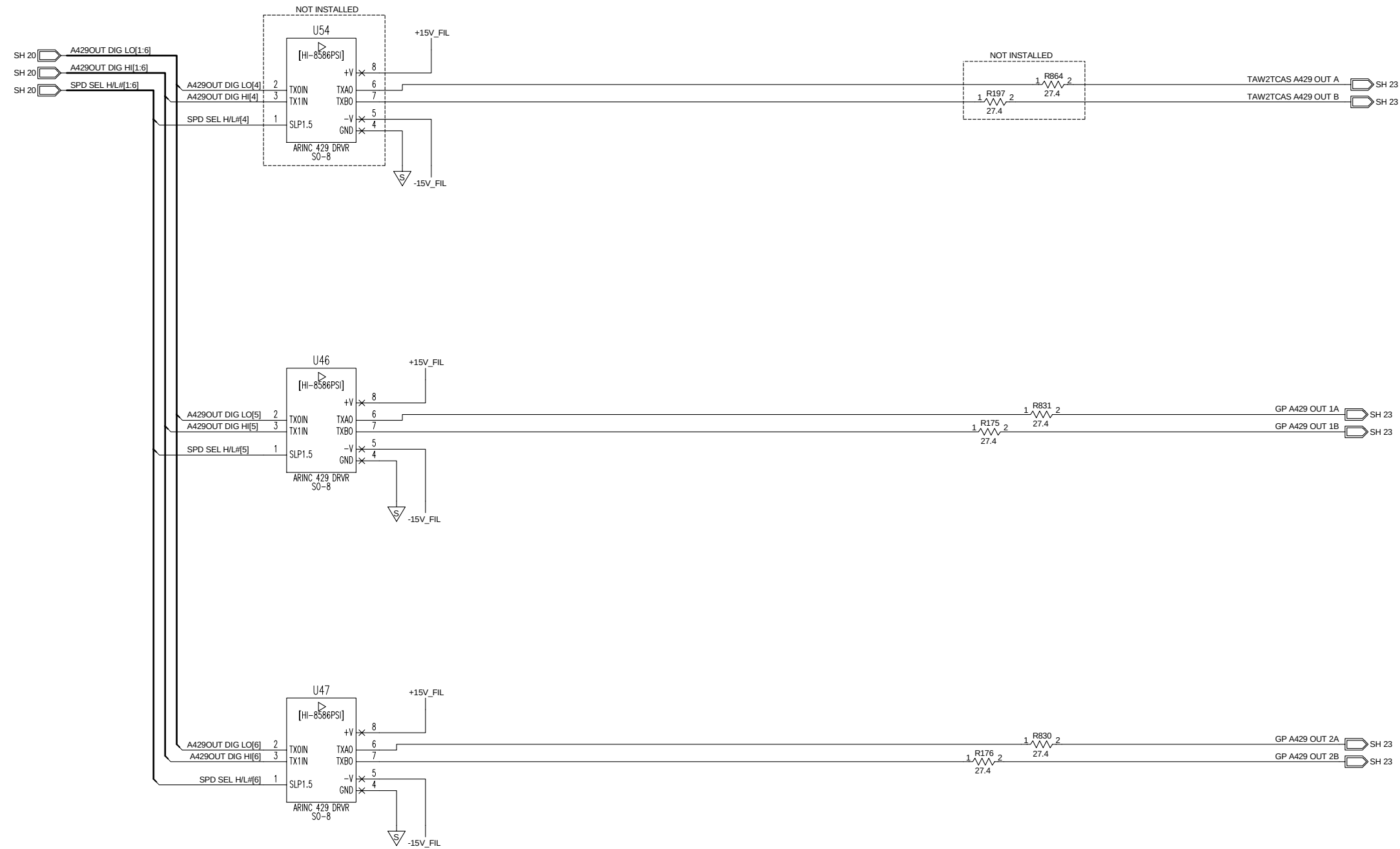
REV

G

SCALE NONE

SHEET 97

DWG. NO.	9000020-001	SH	99	REV	G
REVISIONS					
REV	DESCRIPTION				
G	CHANGED TO NOT INSTALLED: U54,R197,R864. UPDATED SHEET NUMBERS.				

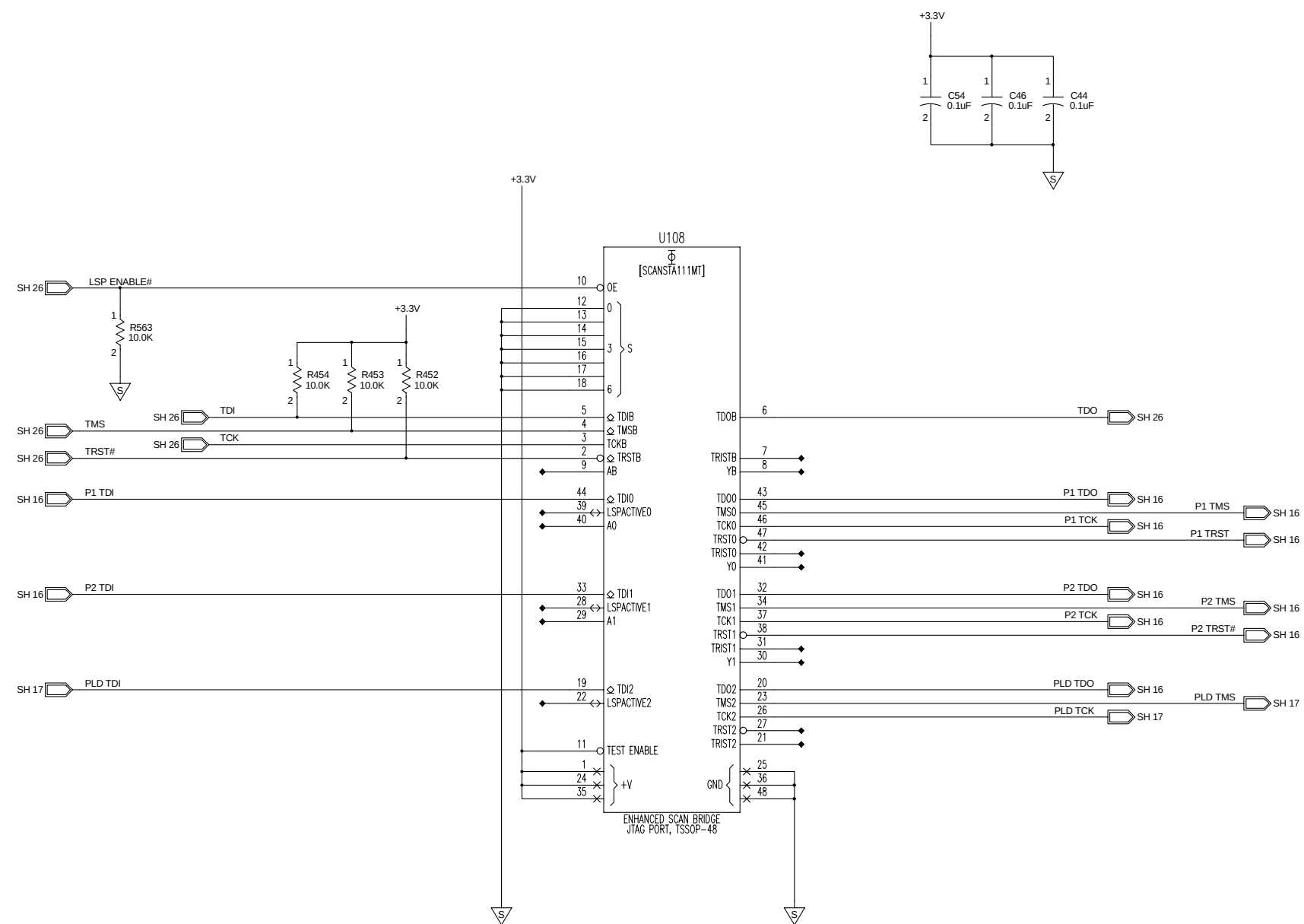


A429 INPUT OUTPUT
ARINC 429 - OUTPUT (2 OF 2)
SHEET NO. 3 OF 3

COMPUTER GENERATED

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	DWG NO.	REV
		D	1WYD3	9000020-001	G
		SCALE: NONE			SHEET 99

DWG. NO.	9000020-001	SH.	100	REV	G
REVISIONS					
REV	DESCRIPTION				
G	UPDATED SHEET NUMBERS				

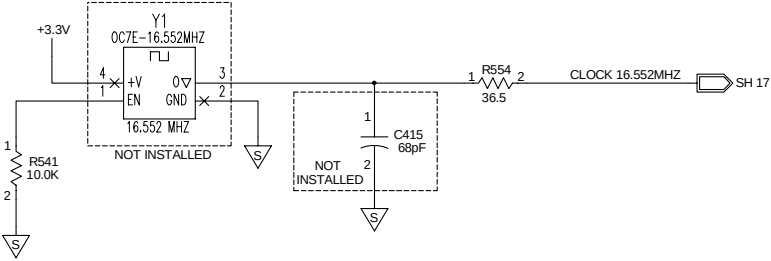
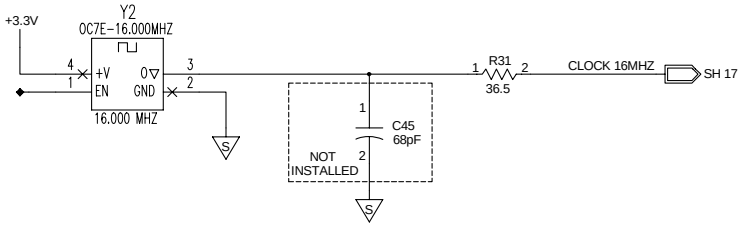
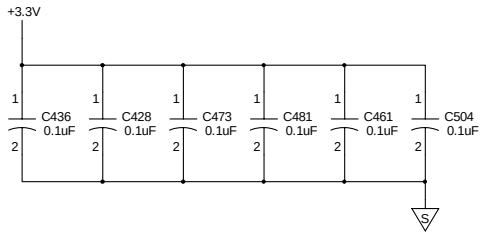
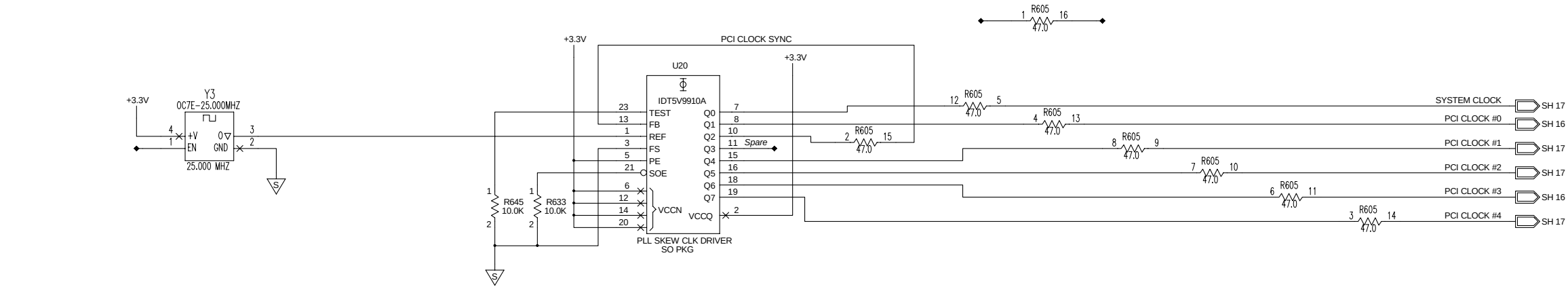


JTAG SCAN
JTAG SCAN CHAINS - SCAN BRIDGE
SHEET NO. 1 OF 1

COMPUTER GENERATED

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	DWG NO.	REV
		D	1WYD3	9000020-001	G
		SCALE: NONE		SHEET 100	

DWG. NO.	9000020-001	SH.	101	REV	H	1
REVISIONS						
REV	DESCRIPTION					
G	UPDATED SHEET NUMBERS					
H	CHANGED TO NOT INSTALLED: Y1					



Notes:
1. Spare clock output on IDT5V9910A can not be disabled.

CLOCK GENERATOR DRIVERS AND OSCILLATORS SHEET NO. 1 OF 1

COMPUTER GENERATED

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
D 1WYD3

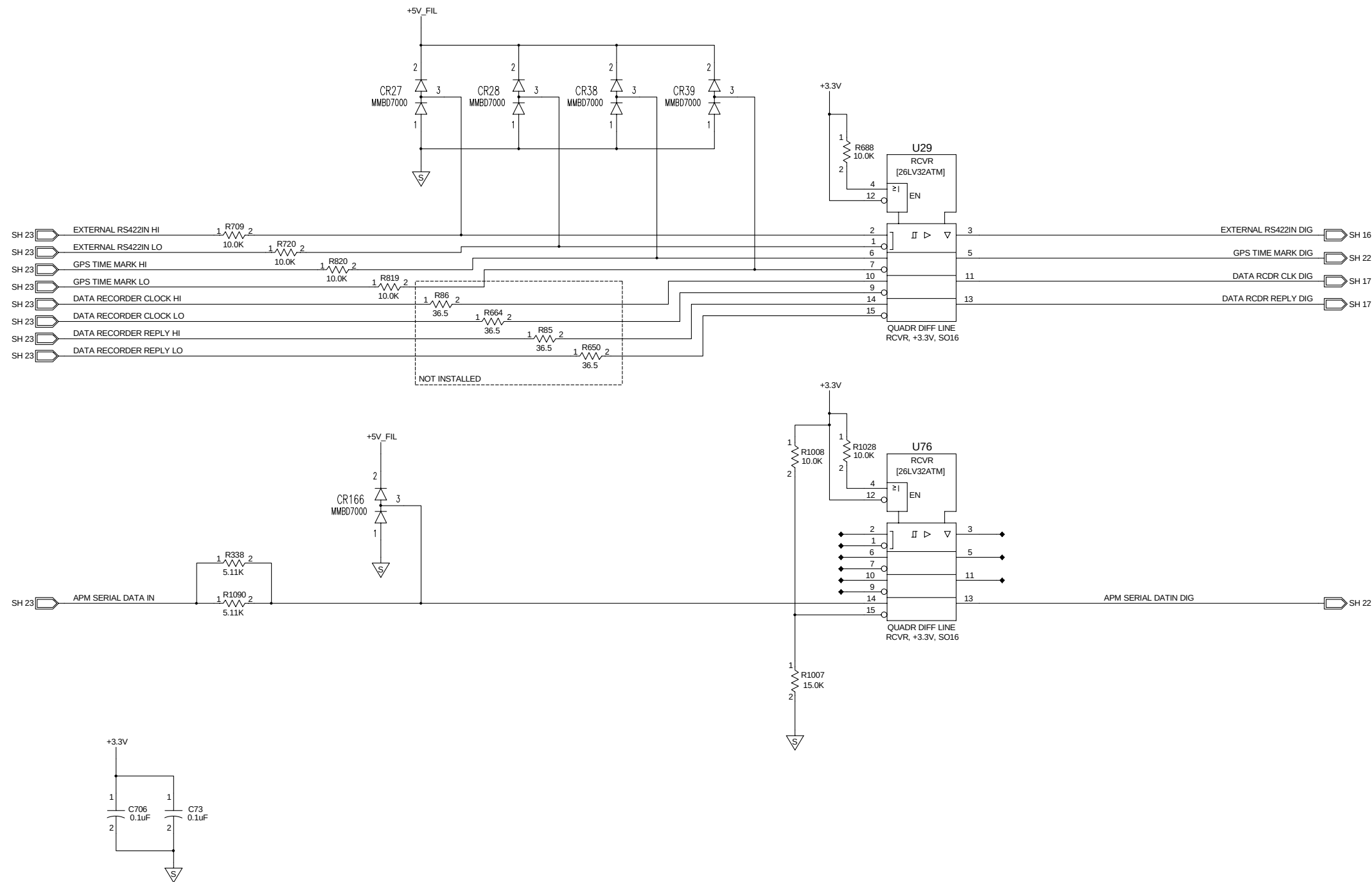
CAGE CODE
9000020-001

DWG NO.
REV
H

SCALE: NONE

SHEET 101

DWG. NO.	9000020-001	SH.	102	REV	G	1
REVISIONS						
REV	DESCRIPTION					
G	CHANGED TO NOT INSTALLED: R85,R86,R650,R664. CHANGED R338,R1090 VALUE FROM 10.0K TO 5.11K. CHANGED R1007 VALUE FROM 10.0K TO 15.0K. UPDATED SHEET NUMBER.					

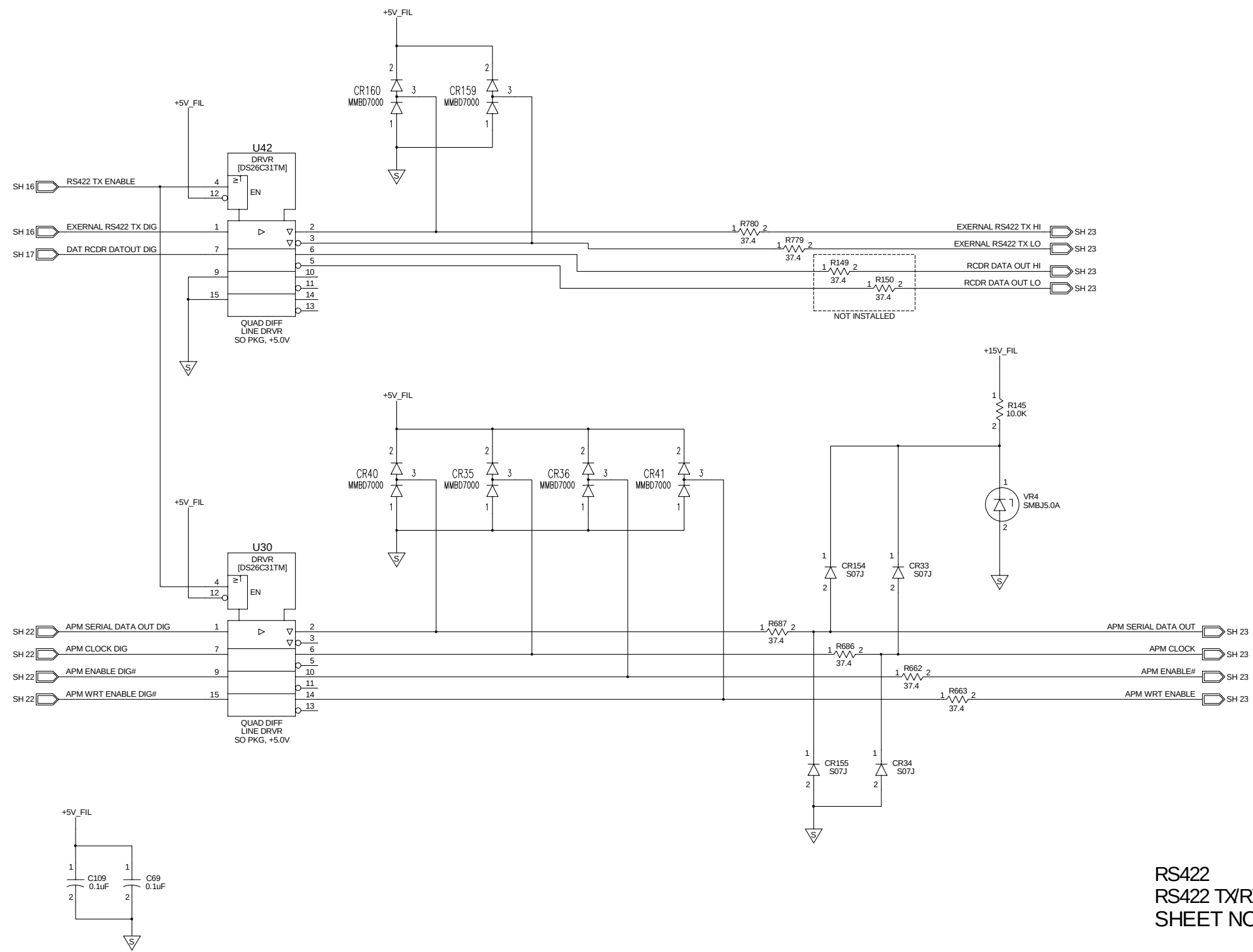


RS422
RS422 TX/RX - RECEIVER
SHEET NO. 1 OF 2

COMPUTER GENERATED

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	DWG NO.	REV
		D	1WYD3	9000020-001	G
		SCALE: NONE			SHEET 102

DWG. NO.	9000020-001	SH.	103	REV	G	1
REVISIONS						
REV	DESCRIPTION					
G	CHANGED TO NOT INSTALLED: R149,R150. UPDATED SHEET NUMBER.					



COMPUTER GENERATED

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	DWG NO.	REV
		D	1WYD3	9000020-001	G
		SCALE: NONE			SHEET 103