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NOTICE

FREEDOM OF INFORMATION ACT (5 USC 552) AND DISCLOSURE OF CONFIDENTIAL INFORMATION GENERALLY (18 USC 1905)

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

PROPRIETARY NOTICE

THIS DOCUMENT AND THE INFORMATION DISCLOSED HEREIN ARE PROPRIETARY DATA OF HONEYWELL INC. NEITHER THIS DOCUMENT NOR THE INFORMATION CONTAINED HEREIN SHALL BE REPRODUCED, USED, OR DISCLOSED TO OTHERS WITHOUT THE WRITTEN AUTHORIZATION OF HONEYWELL INC.

REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED
XA		INITIAL X RELEASE	10SEP01	R. BACULA
XB		NOTES: NOTE 5 WAS: SOME---DESIGNERS. ADD NOTE 12 THRU 14. TABLES: ADD TBL 1. SH IDX REV. PL AFFECTED.	11/1/02	A. WHIDDEN

TABLE I

BUSWIRE DATA

CONDUCTOR

COND. NO.

ITEM NO.

PWB SIDE

FROM CIRCUIT POINT

TO CIRCUIT POINT

601	703	B	R519-TOP	U4-B
602	703	B	R519-BOTTOM	Q6-3
603	703	B	R520-LEFT	R519-TOP
604	703	B	R520-RIGHT	C56-BOTTOM
605	703	B	R163-TOP	R163-BOTTOM

NOTES:

1.

ASSEMBLE PER ITEM 701.

2.

CAUTION

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 CONTROL.

3.

MAXIMUM COMPONENT HEIGHT SIDE B SHALL BE .394; MAXIMUM COMPONENT HEIGHT SIDE A SHALL BE .100.

4.

COMPONENT LEAD PROTRUSION SHALL BE .060 MAXIMUM ON BOTH SIDES; BARE COPPER IS PERMISSIBLE ON TRIMMED SURFACES.

5.

SOME COMPONENTS SHOWN OVERSIZE TO PROVIDE SPACE FOR DESIGNATORS.

6.

CONFORMAL COAT CCA PER ITEM 702 EXCEPT TEST POINTS AND MATCHED AREAS.

7.

SHADED COMPONENTS ARE NOT INSTALLED.

8.

INSTALL SOLDER PREFORMS (ITEM 8), ONE PER PIN ON J1 ON SIDE A OF PWB (ITEM 1). APPLY HEAT LOCALLY TO AREA ON SIDE A TO SOLDER PREFORMS.

9.

FOR KEYING PURPOSES INSERT ITEM 7 INTO J1-A5 AND J1-F4 AND REMOVE PIN J2-10.

10.

J1 TO BE FLUSH TO SIDE B OF PWB (ITEM 1).

11.

ORIENT U1, U5, AND U11 AS SHOWN. PIN 1 IS INDICATED BY THE ORIENTATION OF THE MARKING ON THE DEVICE.

12.

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

13.

SOLDER R521 TO TOP OF R57, R522 TO TOP OF R98, AND C607 TO TOP OF C130.

14.

SECURE R519 AND R520 TO PWB (ITEM 1) APPROXIMATELY AS SHOWN AND WIRE PER TABLE I.

REV STATUS OF PARTS LIST SHALL BE SAME AS BASIC DRAWING NUMBER SEE SEPARATE PARTS LIST

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SHEET

INDEX

FOR HONEYWELL REFERENCE

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

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

WFO REF NO.

MATL-PROCESS-FINISH

MILITARY DESIGNATION

PROCESS, FINISH, SEE 00.40.

ITEM CODE (PER ESR99394)

3

QPA NO.

MATL

THIRD ANGLE PROJECTION

DWG CLASS

A

PRODUCT LINE NO.

6720

PROCESS

FINISH

FIRST USED ON

7026203

AW/PS ANALYSIS EB

7510800

REF DWG

REF SPEC

APPLICATION

7026203

7026203

NEXT ASSY

USED ON (SYS)

CONTRACT VDR

DRAWN BY

DATE

29AUG01

DESIGNED BY

DATE

29AUG01

CHECKED BY

DATE

29AUG01

APVD FOR MFG

DATE

29AUG01

APVD FOR GE

DATE

29AUG01

APVD FOR ENGRG

DATE

29AUG01

APVD FOR ENGRG

DATE

29AUG01

APVD FOR

DATE

29AUG01

OPERATIONAL NOTE

SIMILAR ASSEMBLY

Honeywell

COMMERCIAL FLIGHT SYSTEMS GROUP PHOENIX, ARIZONA

TITLE

CIRCUIT CARD ASSEMBLY-MARKER/GLIDESLOPE RECEIVER

SIZE

CAGE CODE

55939

DRAWING NO.

7026238-902

REV

XB

SCALE

NONE

UNIT

WT

SHEET

1

OF

26

5251-040 (ASME Y14.5M-1994) HONEYWELL INC. (REV 3-87)

7

6

5

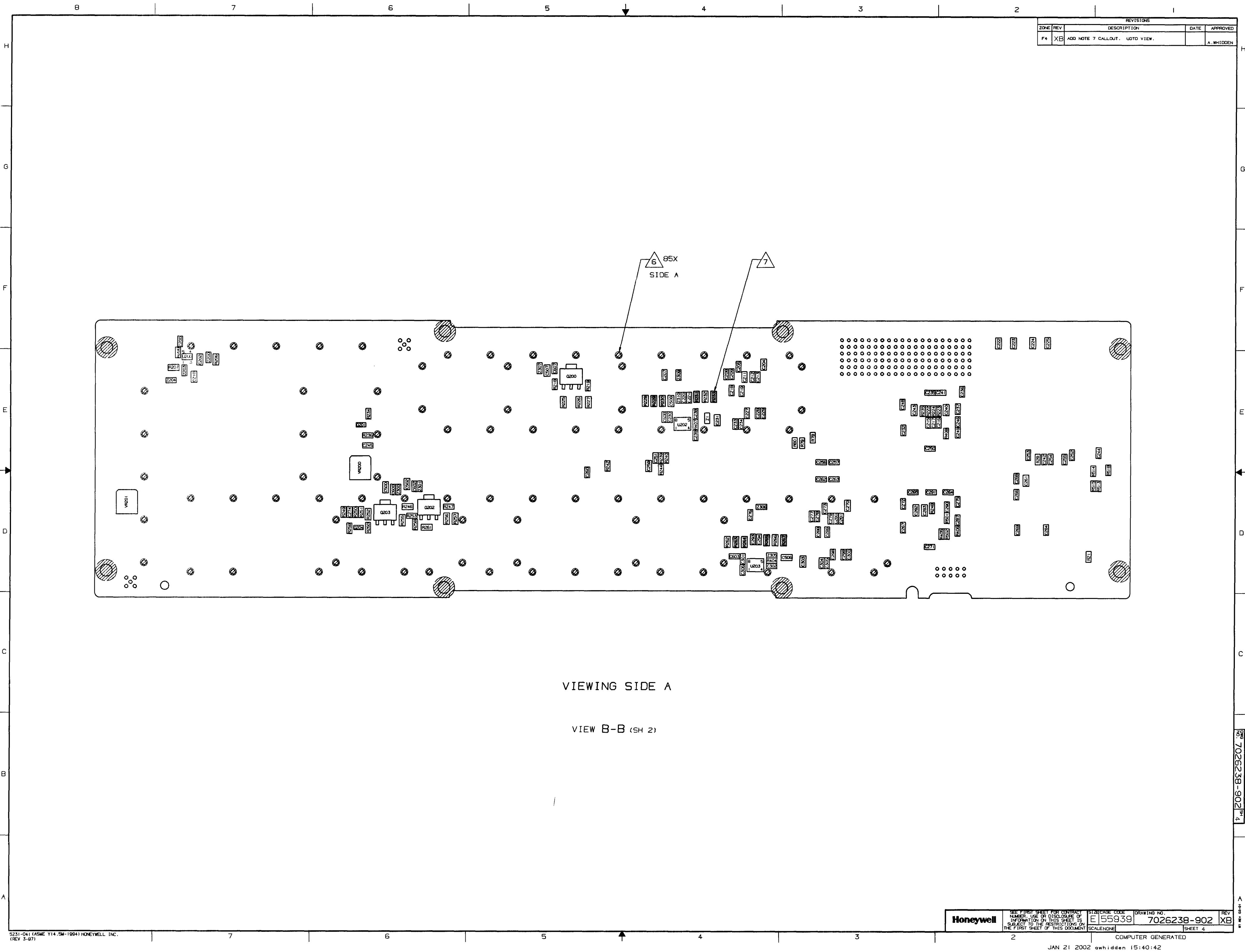
4

3

2

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JAN 21 2002 awhidden 15:40:41



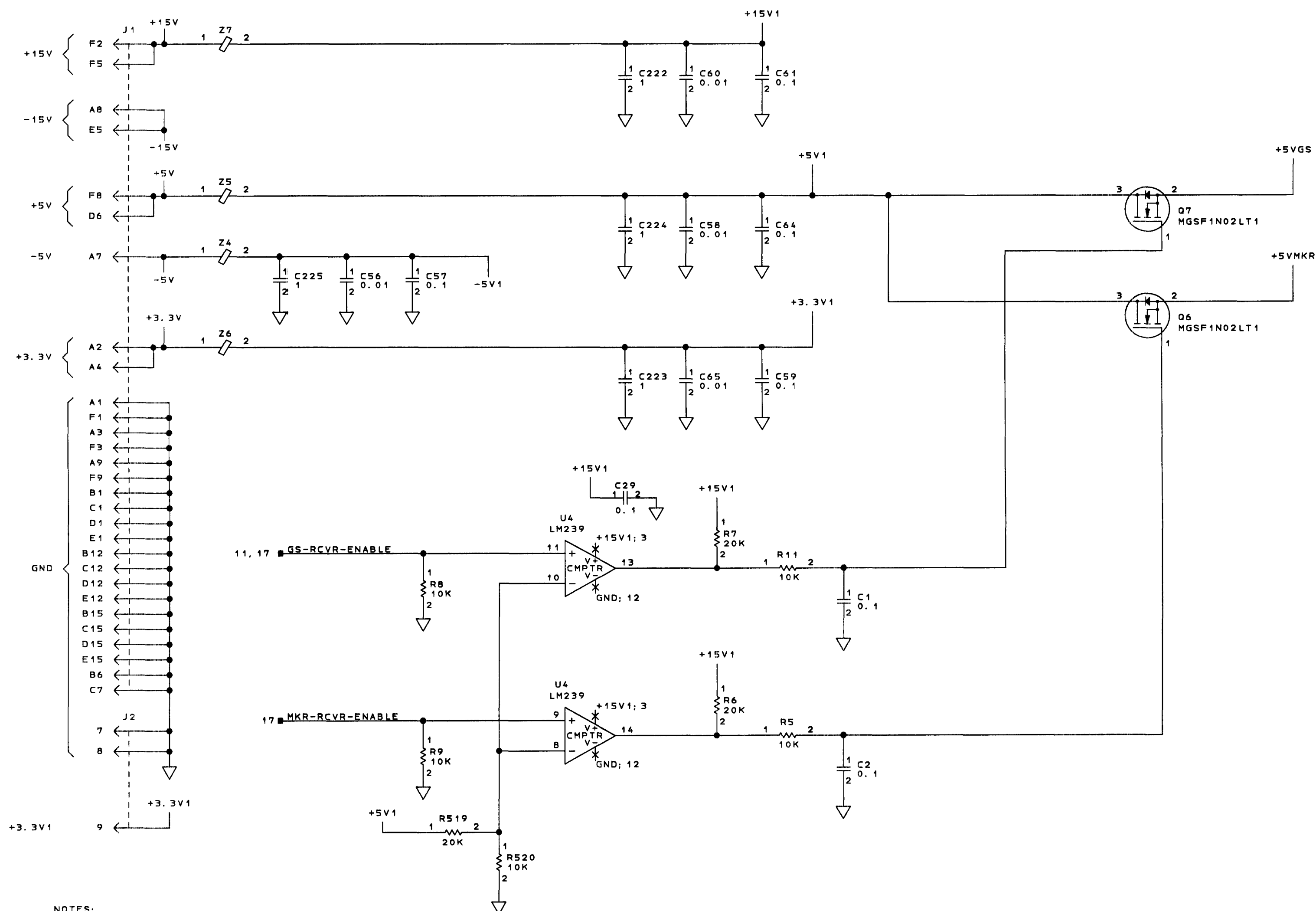
REVISIONS			
ZONE	REV	DESCRIPTION	DATE
F4	XB	ADD NOTE 7 CALLOUT. UGTD VIEW.	A. WHIDDEN

VIEWING SIDE A

VIEW B-B (SH 2)

Honeywell	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/CASE CODE	DRAWING NO.	REV
		E 55939	7026238-902	XB
SCALE NONE		SHEET 4		

ZONE		REV		DESCRIPTION		DATE	APPROVED
XB				ADD REFDES R519, R520.			PAUL C.



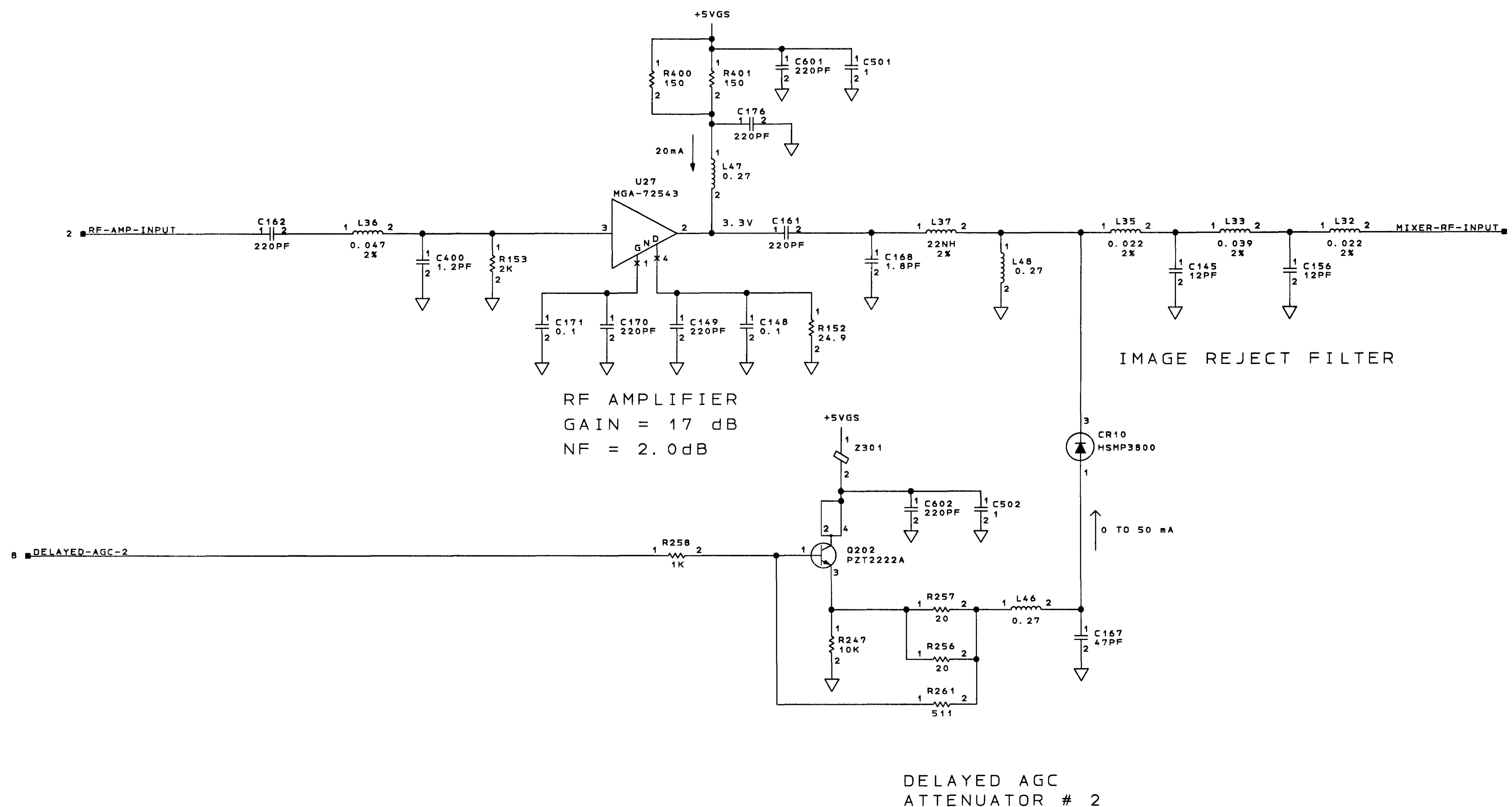
- NOTES:
1. ALL CAPACITANCE VALUES ARE IN MICROFARADS.
 2. ALL RESISTANCE VALUES ARE IN OHMS.
 3. ALL INDUCTANCE VALUES ARE IN MICROHENRIES.
 4. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN; FOR COMPLETE DESIGNATIONS PREFIX PART DESIGNATION WITH SUBASSEMBLY DESIGNATION.
 5. INTERPRET DRAWING PER ANSI Y32.2-1975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

POWER AND GROUND CONNECTIONS
POWER SWITCHING
SCHEMATIC DIAGRAM SHEET NO. 1 OF 22

COMPUTER GENERATED

12-7-2001	10:14	PAUL COBLENTZ	SIZE	CAGE CODE	DRAWING NO.	REV
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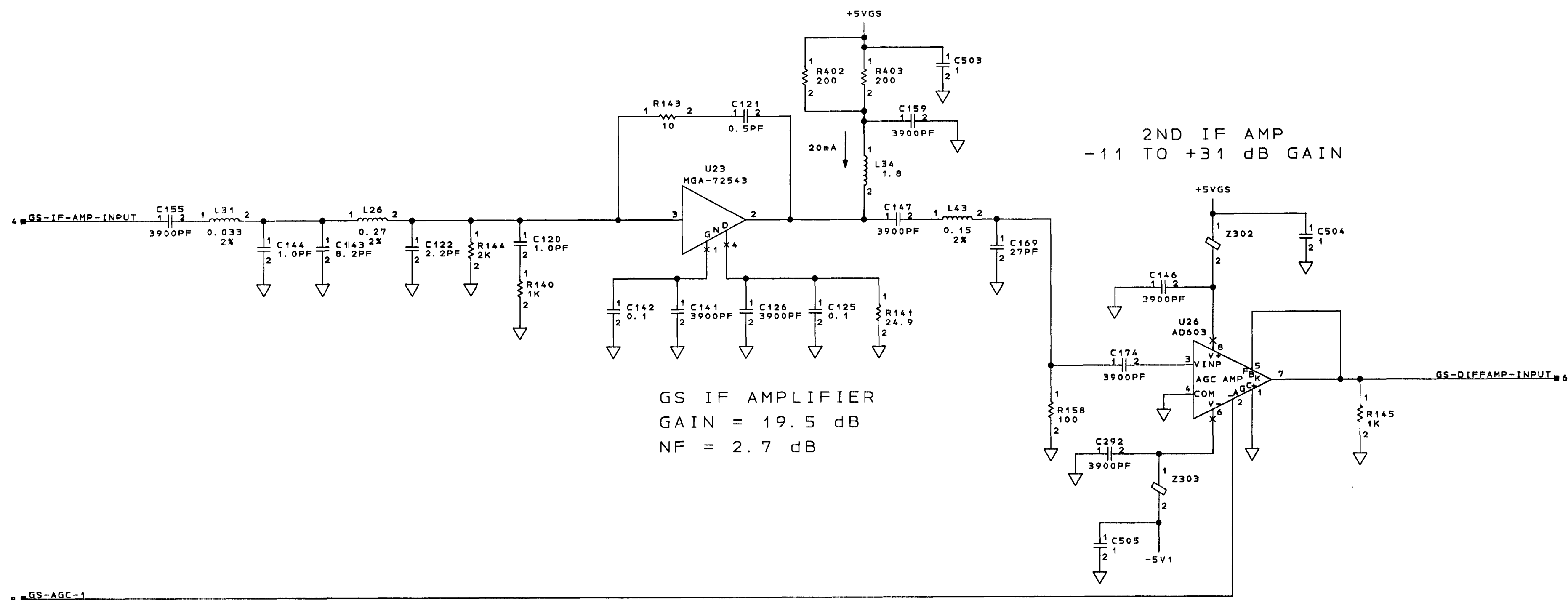
REVISIONS			
ZONE	REV	DESCRIPTION	DATE
		REFDES R400, R401; PN WAS -325, VAL WAS 200.	
		REFDES C400, L37, C168; PN WAS -18, -3, -27	
		RESP. VAL WAS 1.8PF, 15NH, 2.7PF RESP.	
		REFDES C167; PN WAS 7022904-220, VAL WAS 22PF.	
			PAUL C.



RF AMP AND DELAYED AGC #2
SCHEMATIC DIAGRAM SHEET NO. 3

COMPUTER GENERATED

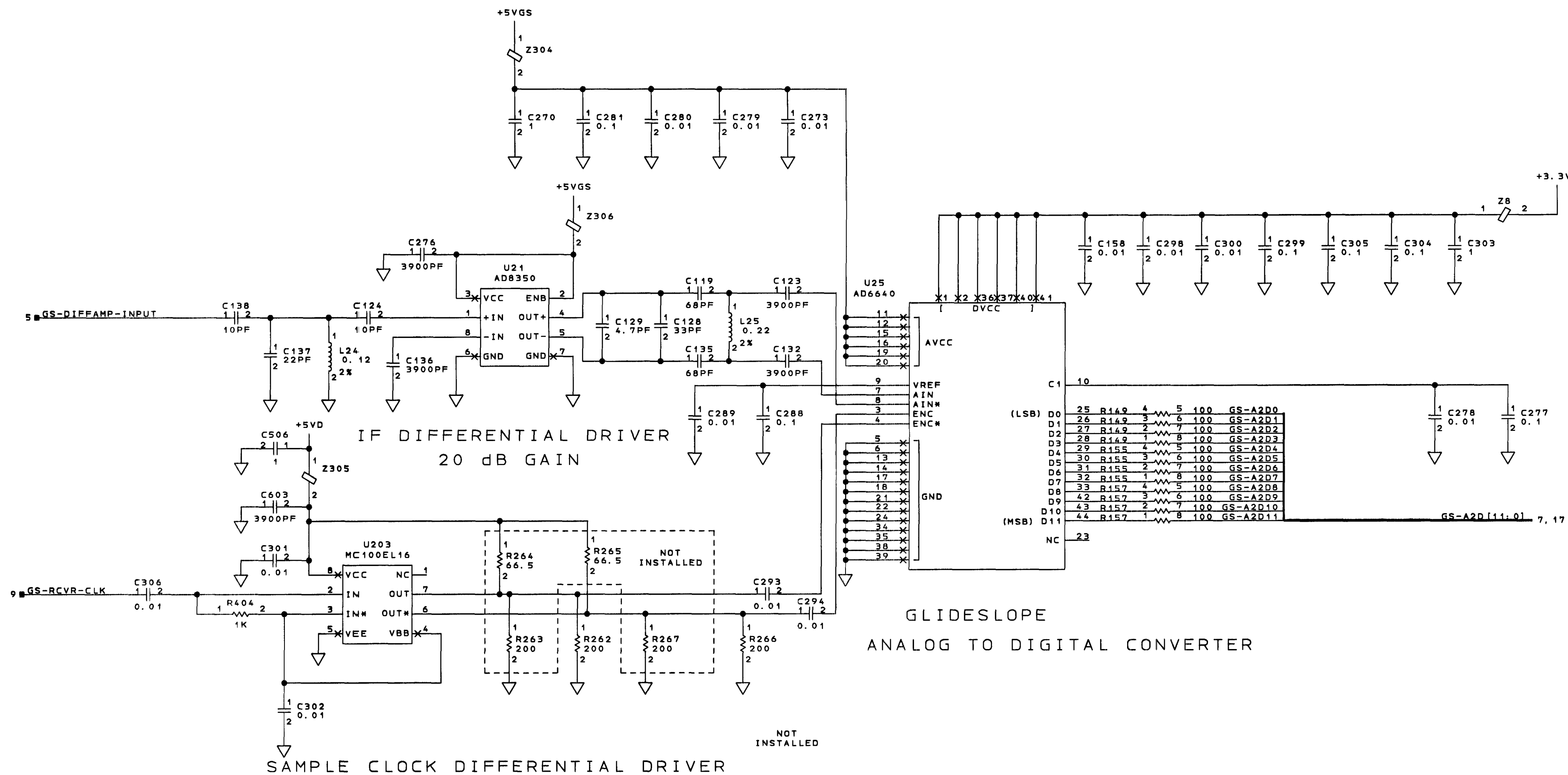
12-7-2001 10:14	PAUL COBLENTZ	SIZE	CAGE CODE	DRAWING NO.	REV
Honeywell	SEE FIRST SHEET FOR CONTRACT NUMBER. USE OR DISCLOSURE OF INFORMATION ON THIS SHEET IS SUBJECT TO THE RESTRICTIONS ON THE FIRST SHEET OF THIS DOCUMENT.	E	55939	7026238-902	XB
		SCALE		SHEET 7	



GS IF AMPS
SCHEMATIC DIAGRAM SHEET NO. 5

COMPUTER GENERATED

ZONE		REV		REVISIONS		DATE		APPROVED	
XB		1		REFDES R264, R265, R263, R267 WAS INSTALLED; PN FOR R264, R265 WAS -279, PN FOR R263, R267 WAS -325.				PAUL C.	



GLIDESLOPE
DIFFERENTIAL ADC DRIVER AMPLIFIER
ANALOG TO DIGITAL CONVERTER
SCHEMATIC DIAGRAM SHEET NO. 6

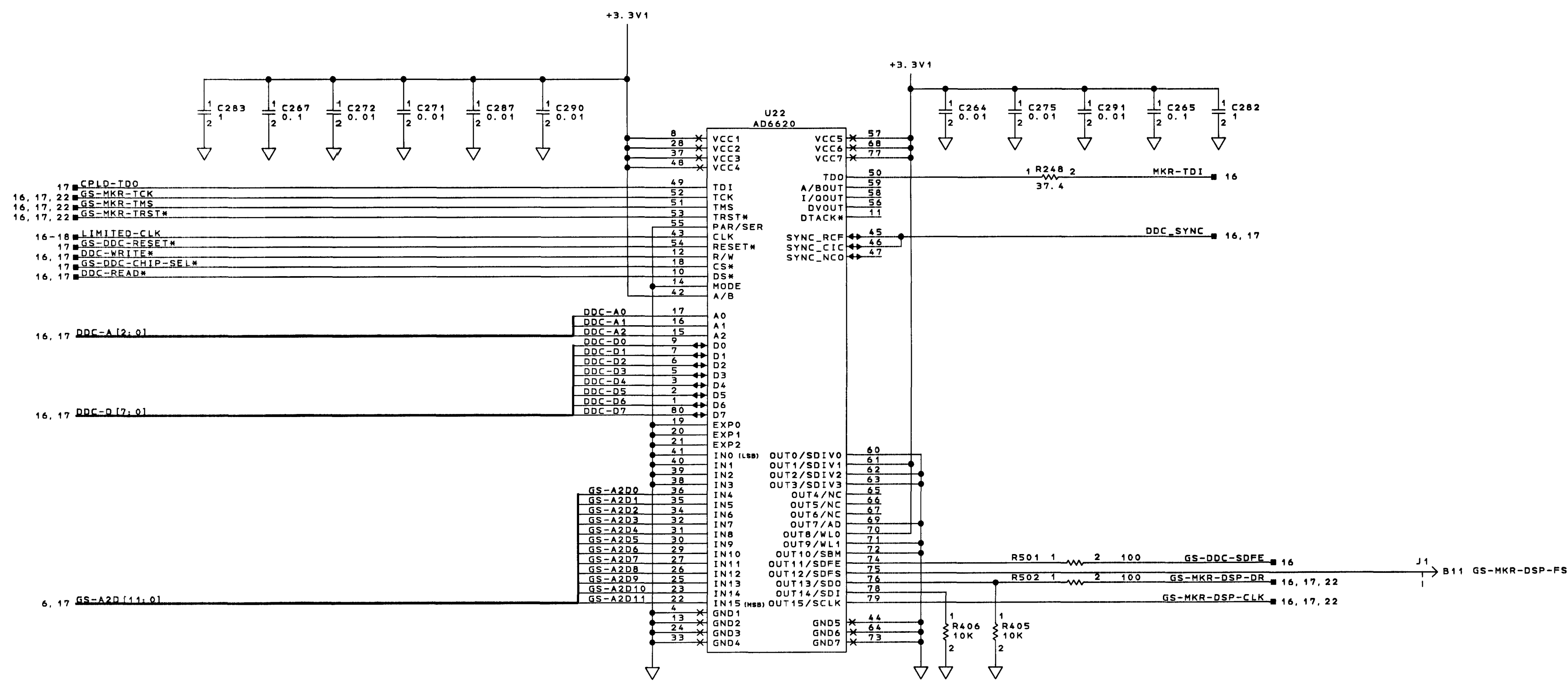
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Honeywell	SEE FIRST SHEET FOR CONTRACT NUMBER, USE OR DISCLOSURE OF INFORMATION ON THIS SHEET IS SUBJECT TO THE RESTRICTIONS	SIZE	CAGE CODE	DRAWING NO.	REV
		E	55939	7026238-902	XB
		SCALE	SHEET 10		

REV 7026238-902 10

DATE 12-7-2001

REVISIONS			
ZONE	REV	DESCRIPTION	DATE



DIGITAL DOWN CONVERTER

CLOCK LIMITER
GLIDESLOPE DIGITAL DOWN CONVERTER
SCHEMATIC DIAGRAM SHEET NO. 7

COMPUTER GENERATED

12-7-2001 10:14		PAUL COBLENTZ							
Honeywell	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	55939	DRAWING NO.	7026238-902	REV	XA
		SCALE	—				SHEET	11	

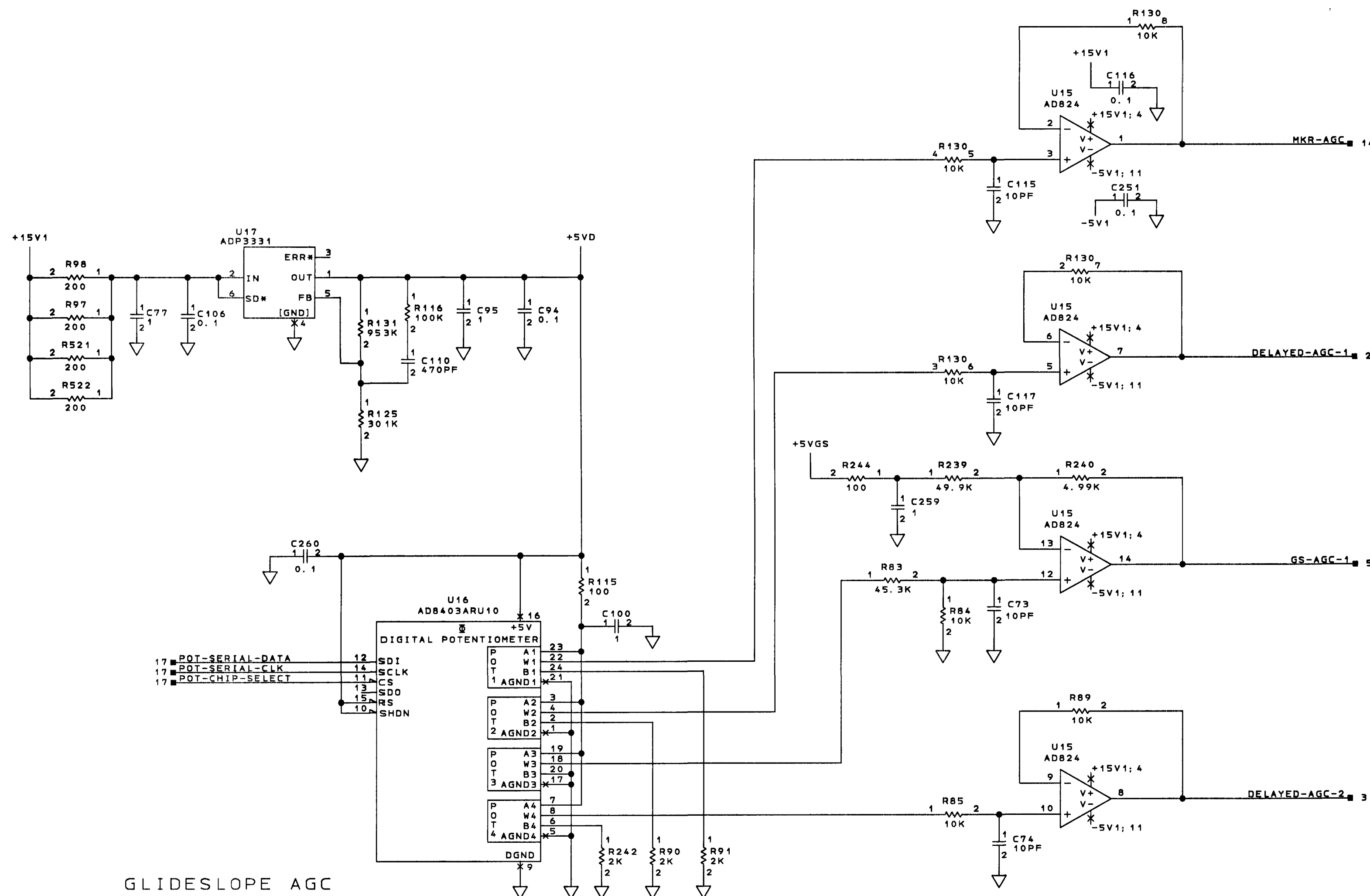
REV		REVISIONS		DATE		APPROVED	
ZONE	REV	DESCRIPTION		DATE		APPROVED	
		REFDES R98, R97; PN WAS					
		7500042-364, VAL WAS					
		S11. ADD REFDES R521					
		AND R522.				PAUL C.	

GLIDESLOPE AGC
10K DIGITAL POT

GLIDESLOPE AGC DRIVER AMPS
SCHEMATIC DIAGRAM SHEET NO. 8

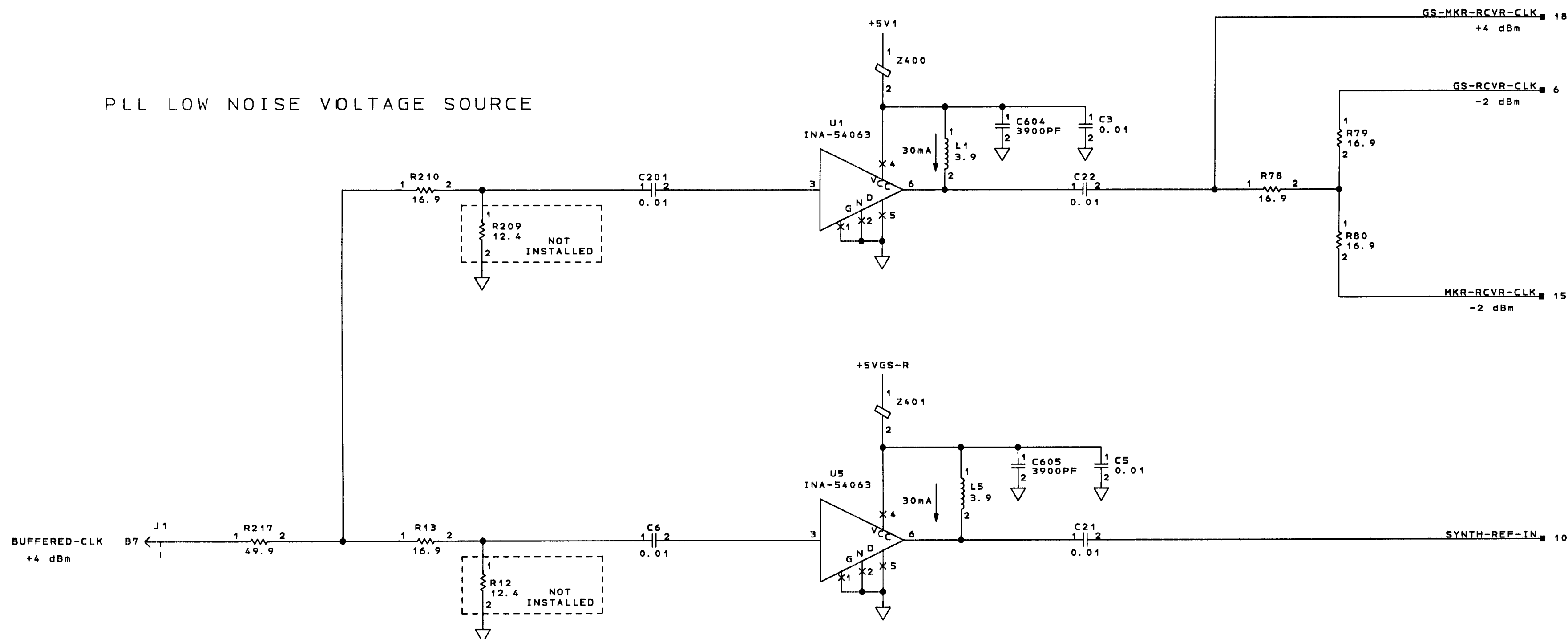
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		E	55939	7026238-902	X
		SCALE		SHEET 12	



```
GS/MKR  RCVR  CLK  BUFFER  AMP
GAIN = 18 dB
```

PLL LOW NOISE VOLTAGE SOURCE

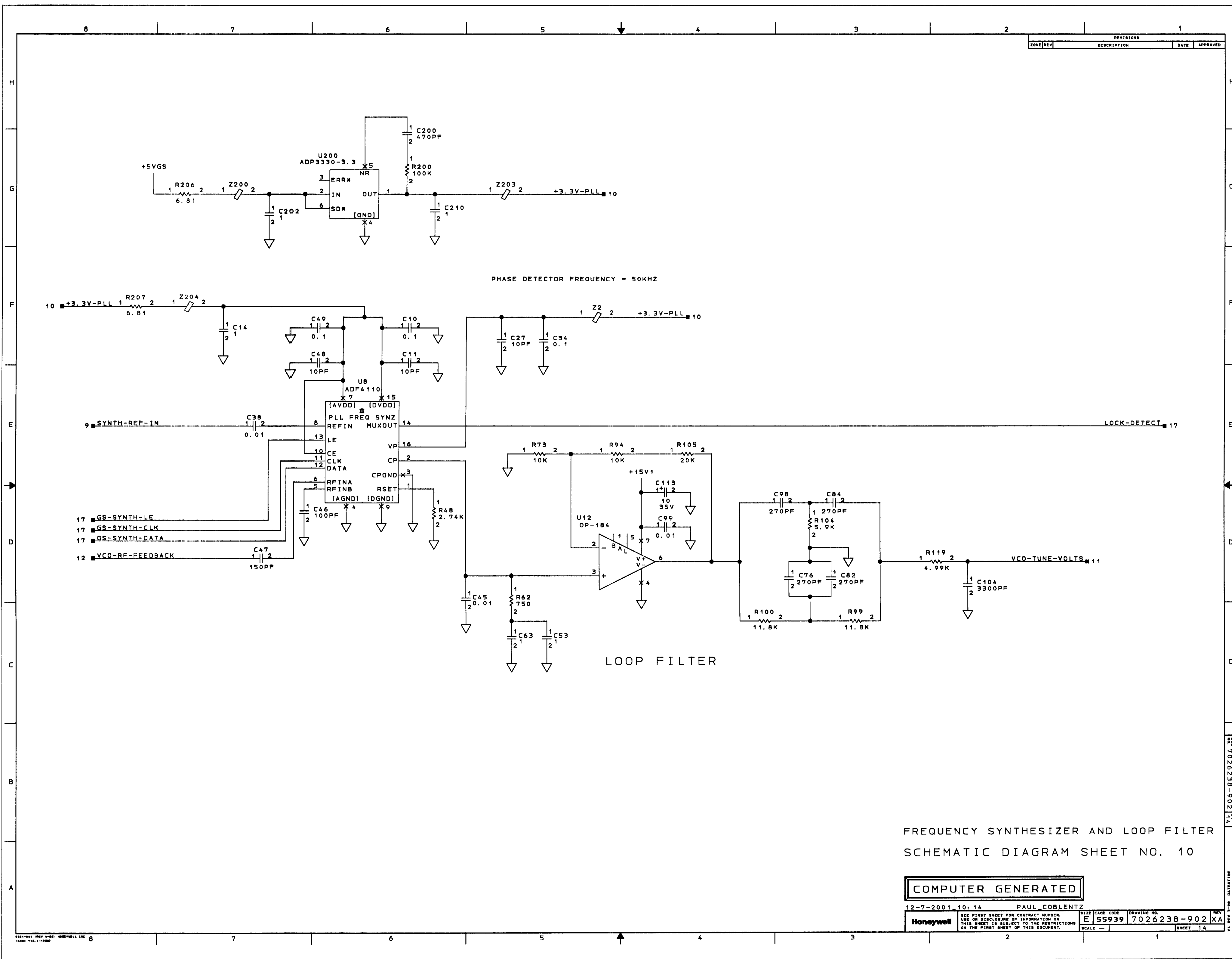


PLL CLOCK AMPLIFIER
GAIN = 18 dB

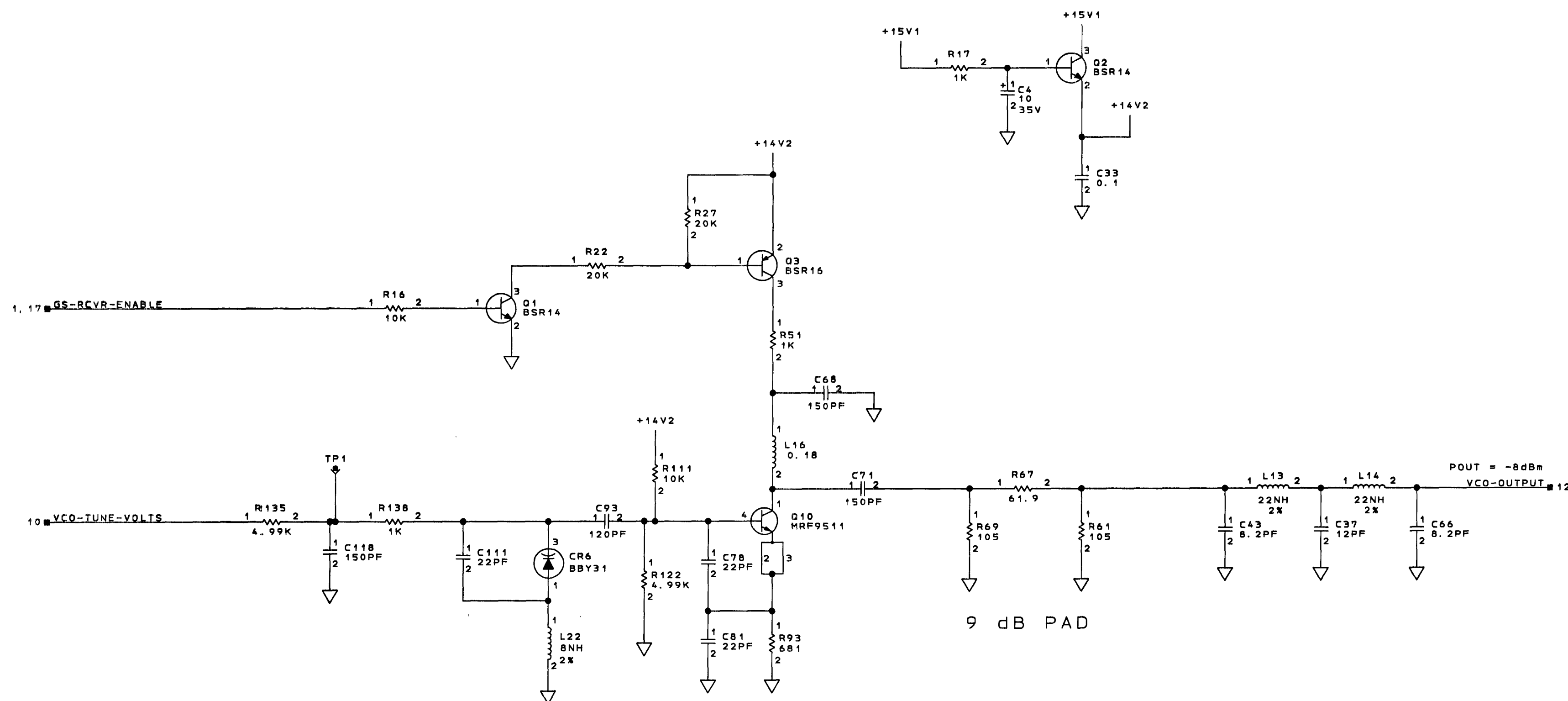
CLOCK BUFFERS

SCHEMATIC DIAGRAM SHEET NO. 9

COMPUTER GENERATED



REVISIONS			
ZONE	REV	DESCRIPTION	DATE
		REFDES C93, R67, R69, R61; PN WAS -120, -282, XB -296, -296 RESP. VAL WAS 12PF, 71.5, 100 AND 100 RESP.	
			PAUL C.



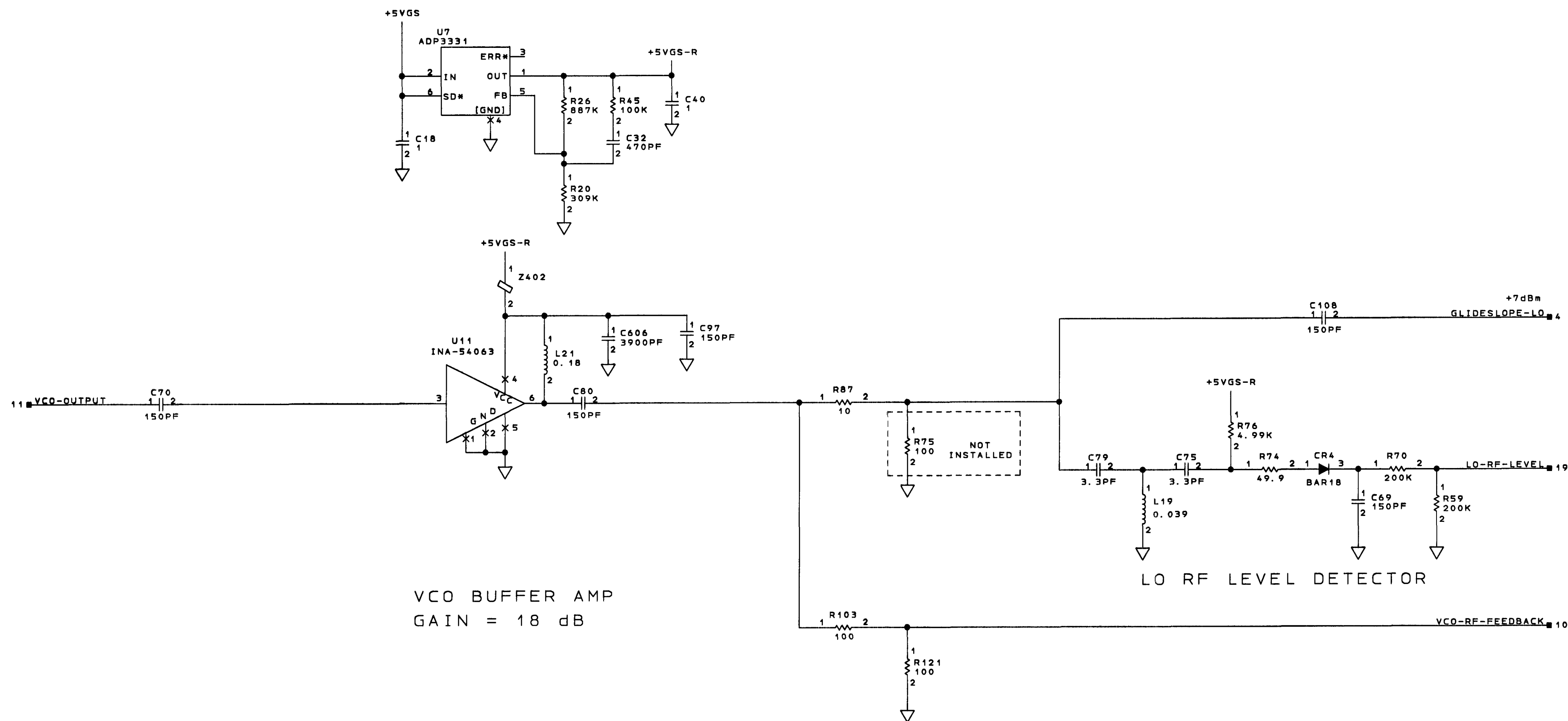
404 MHz TO 410 MHz

VOLTAGE CONTROLLED OSCILLATOR
SCHEMATIC DIAGRAM SHEET NO. 11

COMPUTER GENERATED

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Honeywell	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.	E	55939	7026238-902	XB
		SCALE		SHEET 15	

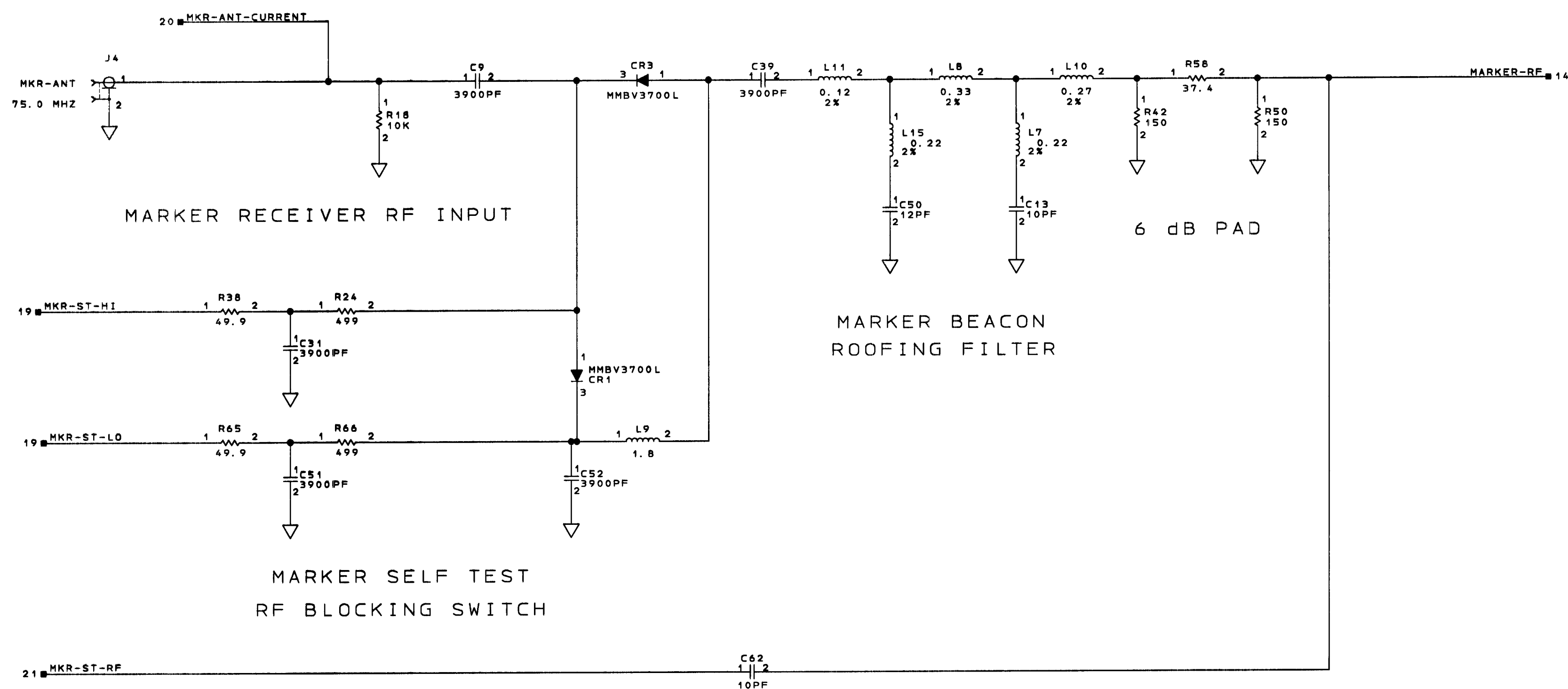
ZONE		REV		REVISIONS		DATE		APPROVED	
XB	1	DESCRIPTION		DATE		APPROVED		PAUL C.	
		REFDES R87, R103; PN WAS 7022518-238 AND -267 RESP. VAL WAS 24.9 AND 49.9 RESP. REFDES R75 WAS INSTALLED; PN WAS 7022518-296.							



VCO BUFFER AMPLIFIERS
SCHEMATIC DIAGRAM SHEET NO. 12

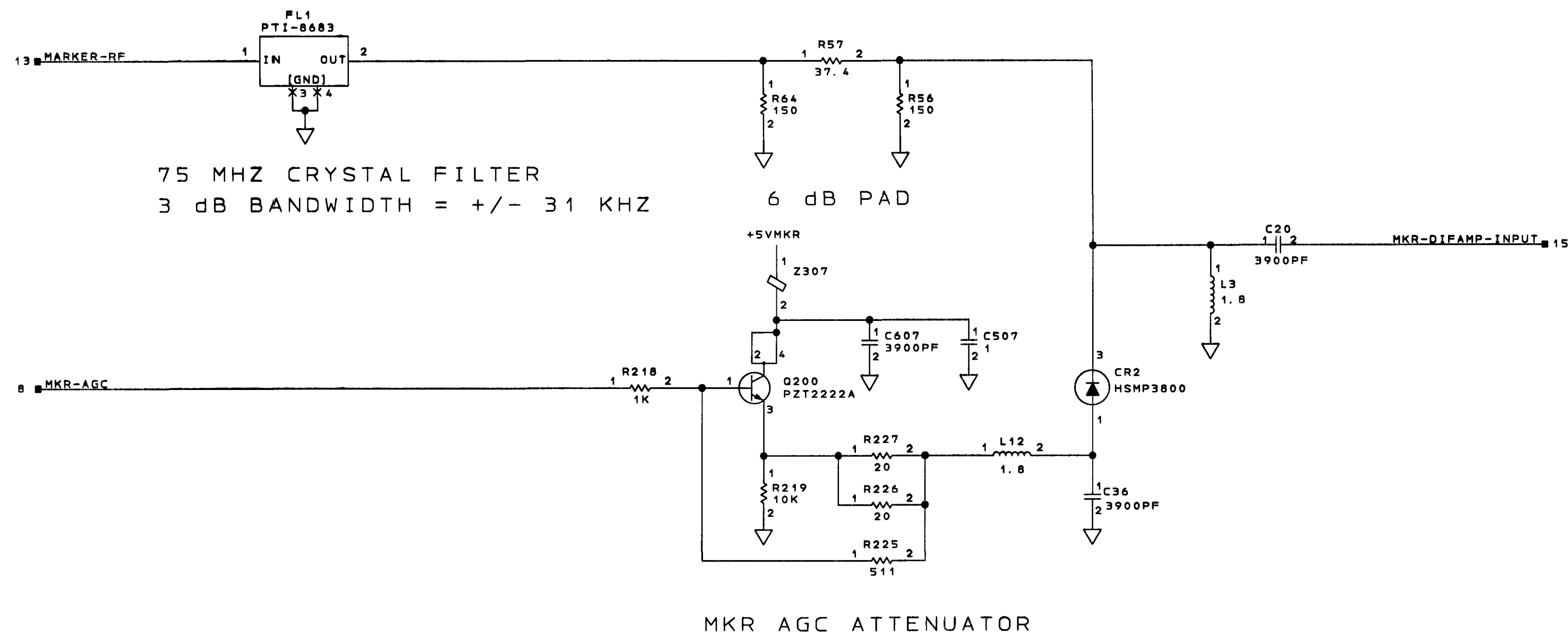
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SCALE		SHEET		16	



MARKER SELF TEST BLOCKING SWITCH
 MARKER BEACON ROOFING FILTER
 SCHEMATIC DIAGRAM SHEET NO. 13

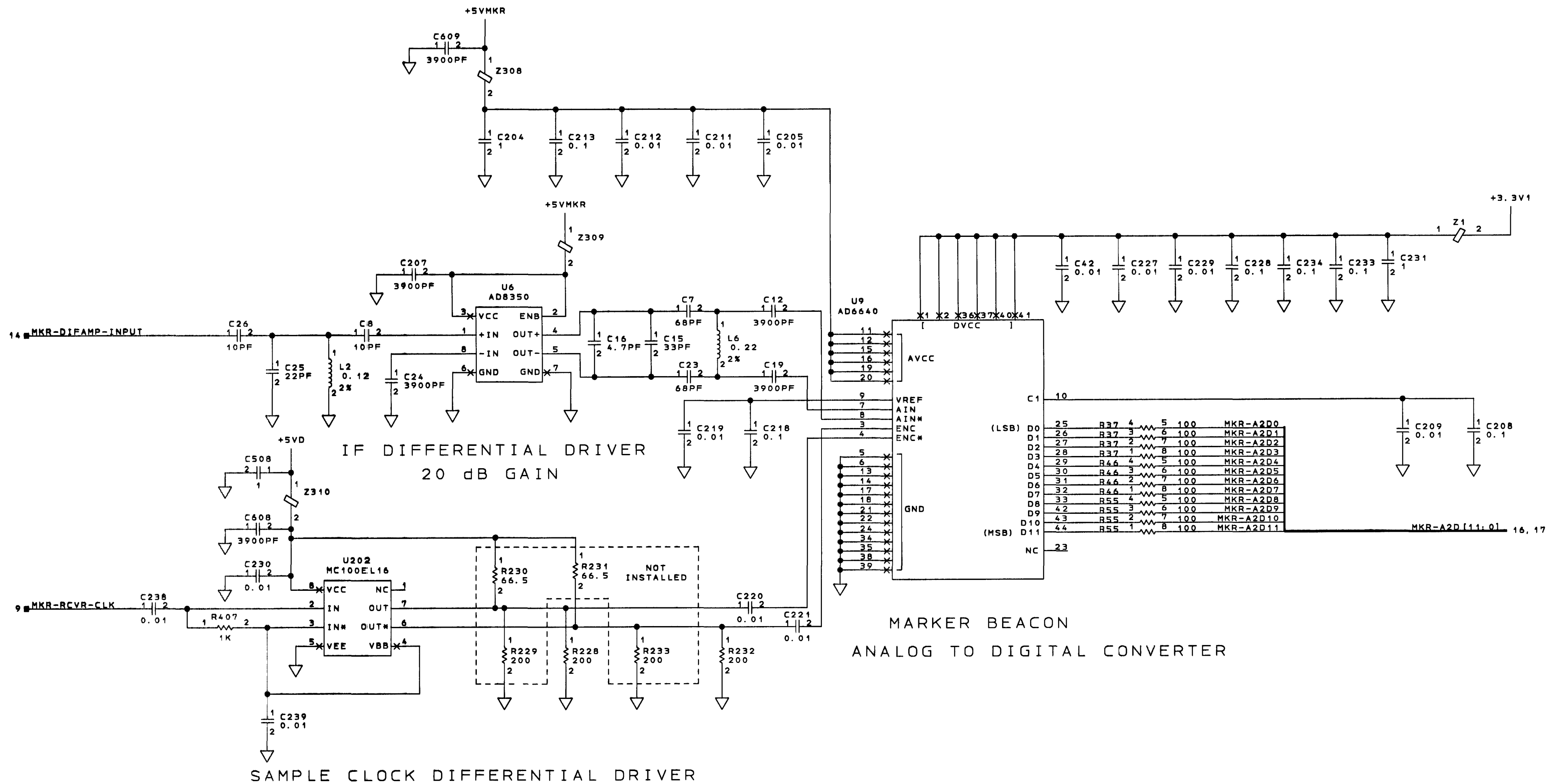
COMPUTER GENERATED



75 MHZ CRYSTAL FILTER
MARKER BEACON DIGITAL ATTENUATOR
SCHEMATIC DIAGRAM SHEET NO. 14

COMPUTER GENERATED

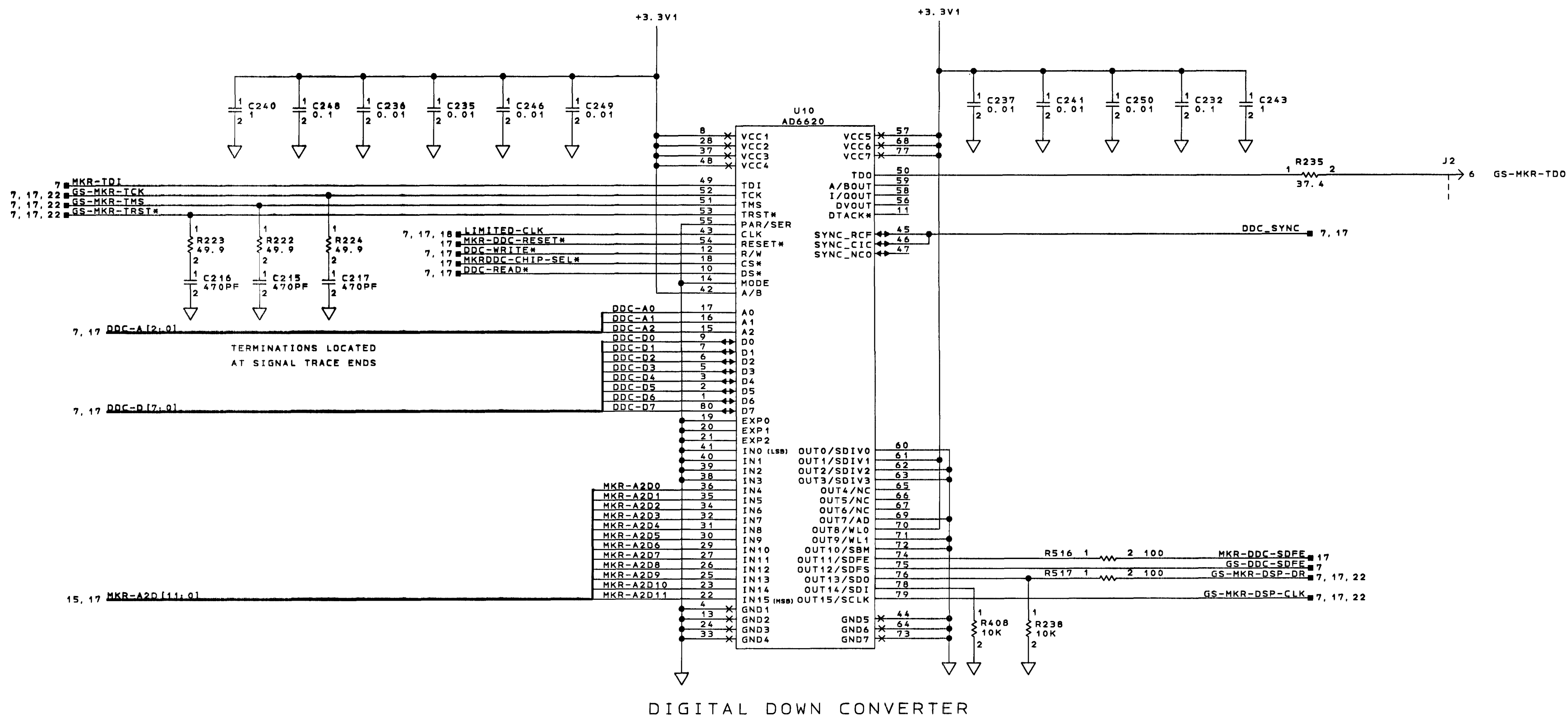
ZONE		REV		REVISIONS		DATE	APPROVED
XB	1	1	1	REFDES R230, R231, R229, R233 WAS INSTALLED; PN FOR R230, R231 WAS -279, PN FOR R229, R233 WAS -325.			PAUL C.



MARKER BEACON
DIFFERENTIAL ADC DRIVER AMPLIFIER
ANALOG TO DIGITAL CONVERTER
SCHEMATIC DIAGRAM SHEET NO. 15

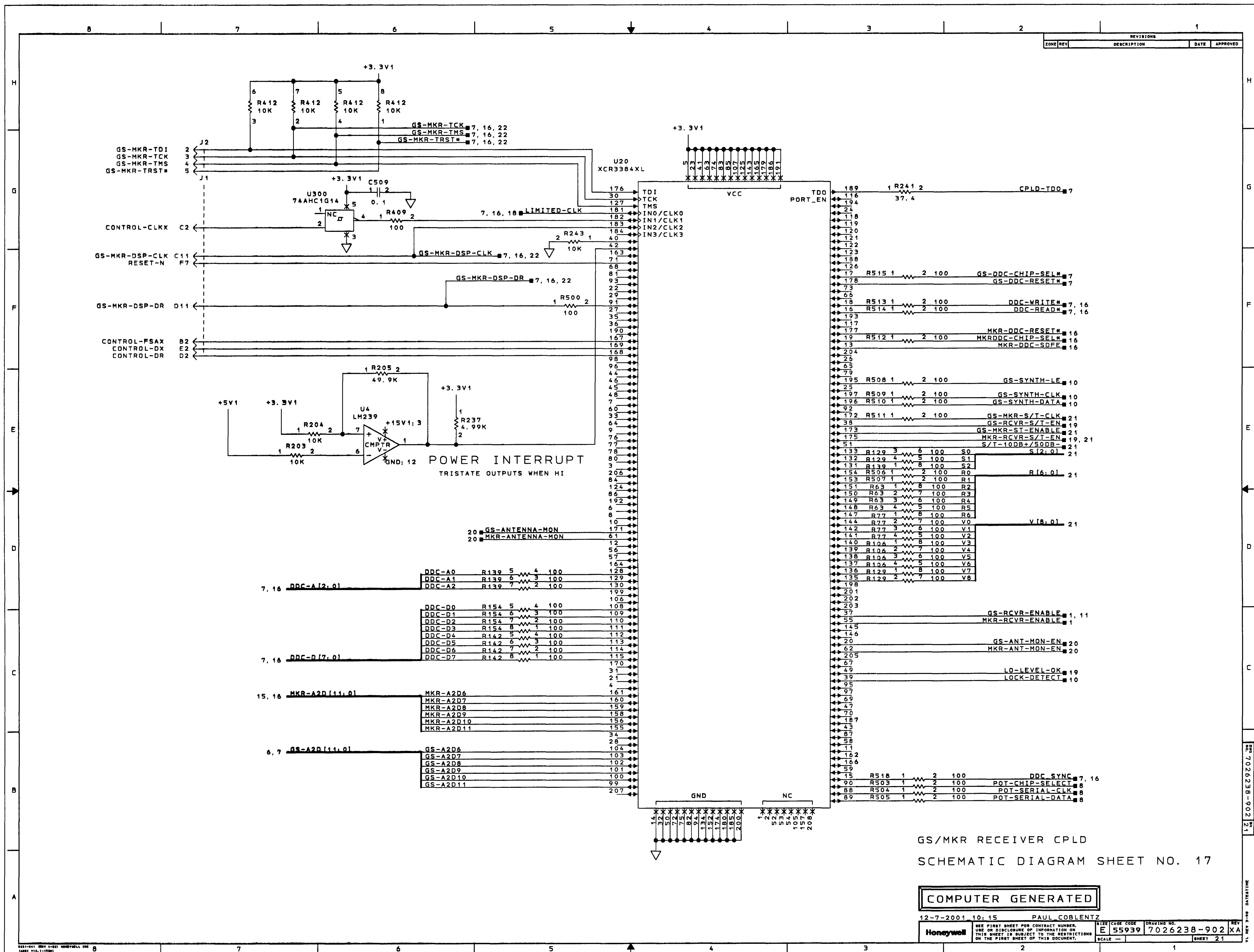
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		SCALE	SHEET 19		

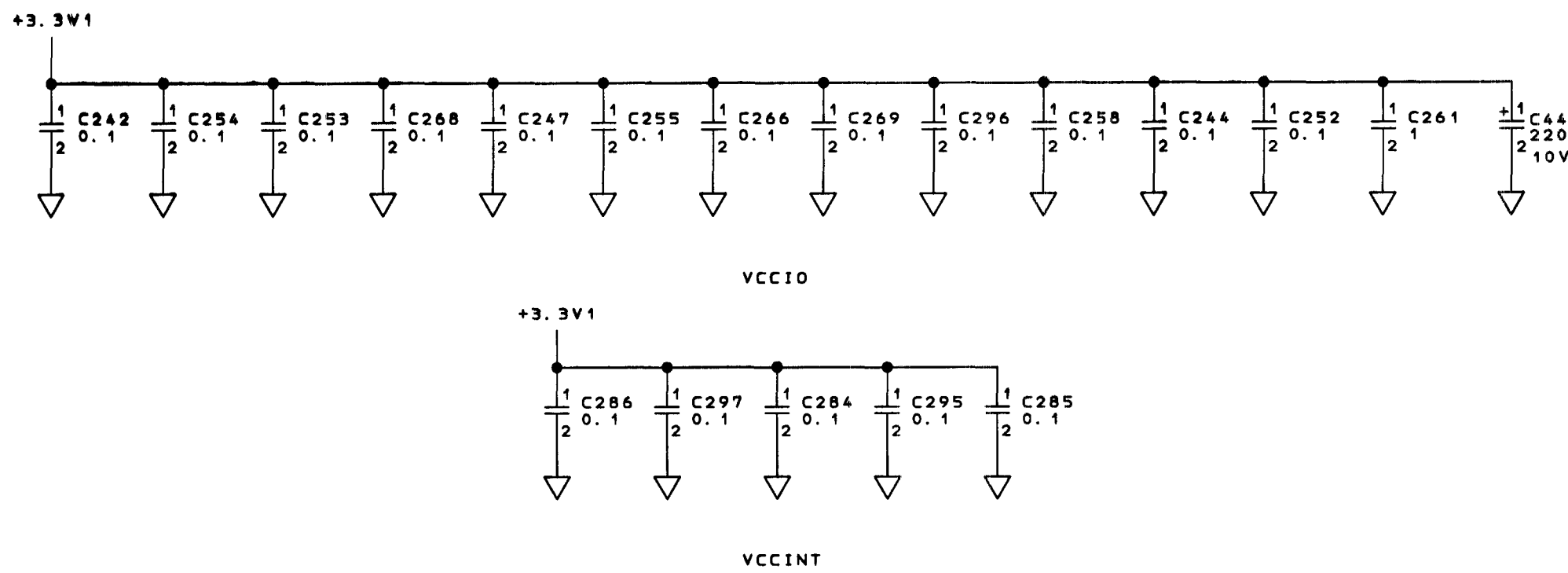
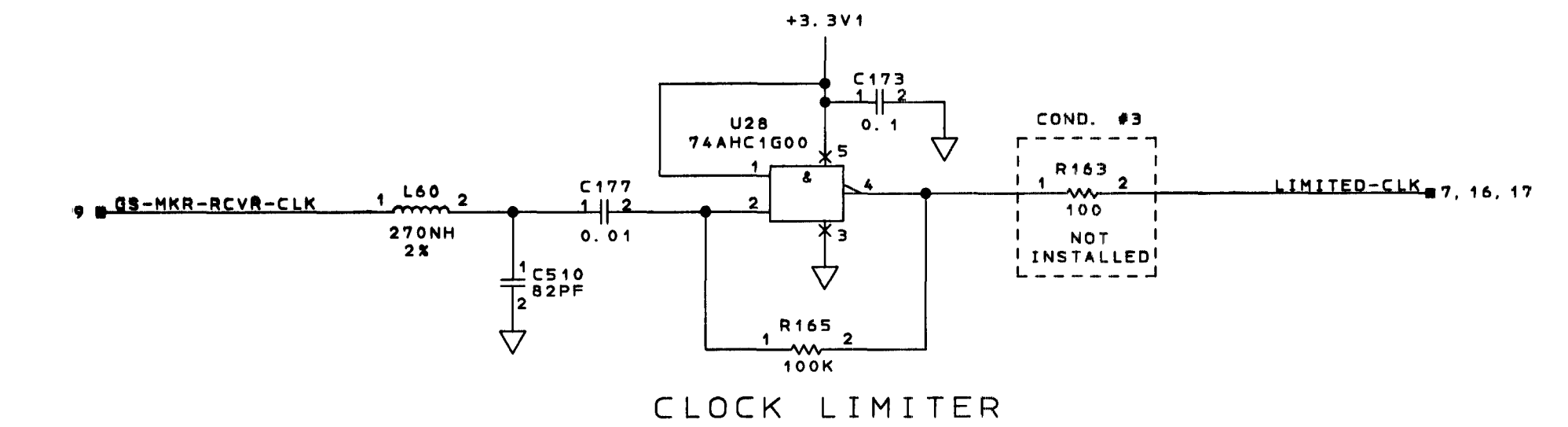


MARKER BEACON DIGITAL DOWN CONVERTER
SCHEMATIC DIAGRAM SHEET NO. 16

COMPUTER GENERATED



REVISIONS			
ZONE	REV	DESCRIPTION	DATE
		REFDES L60, C510; PN WAS 7019607-14 AND 7022903-903 RESP, VAL WAS 0.12 AND 680PF	
		RESP. REFDES R163 WAS INSTALLED; PN WAS 7022518-296.	
			PAUL C.



CPLD POWER SUPPLY BYPASS CAPACITORS

CLOCK LIMITER
CPLD POWER
SCHEMATIC DIAGRAM SHEET NO. 18

COMPUTER GENERATED

12-7-2001 10:15

PAUL COBLENTZ

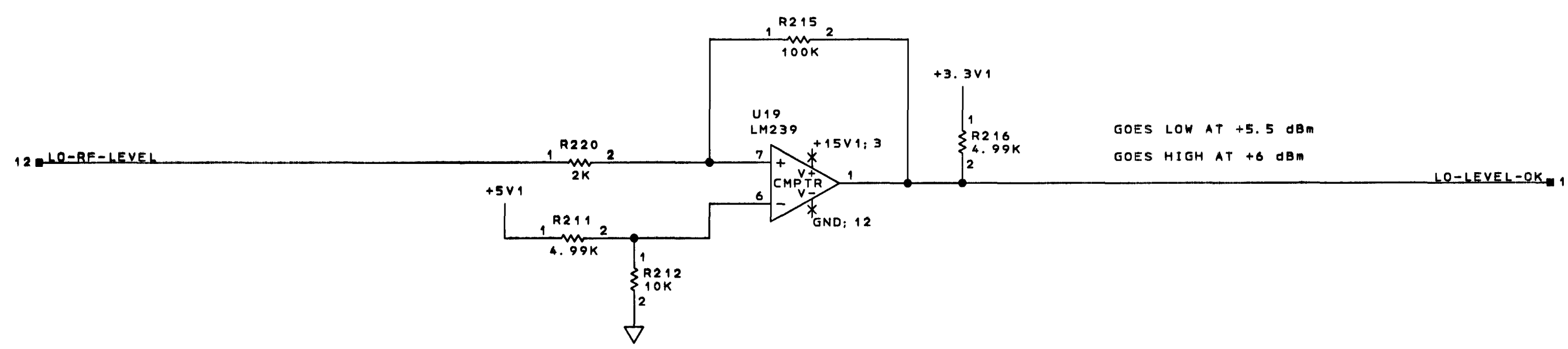
SEE FIRST SHEET FOR CONTRACT NUMBER. USE OR DISCLOSURE OF INFORMATION ON THIS SHEET IS SUBJECT TO THE RESTRICTIONS ON THE FIRST SHEET OF THIS DOCUMENT.

55939

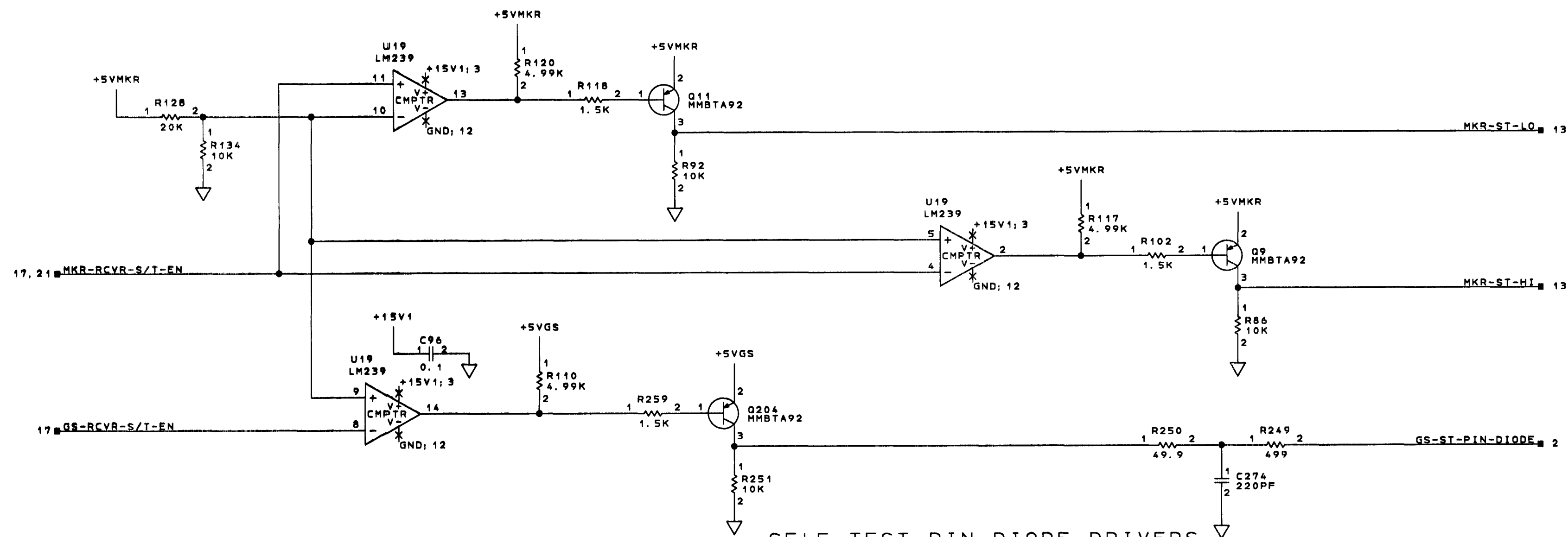
7026238-902

DATE

22



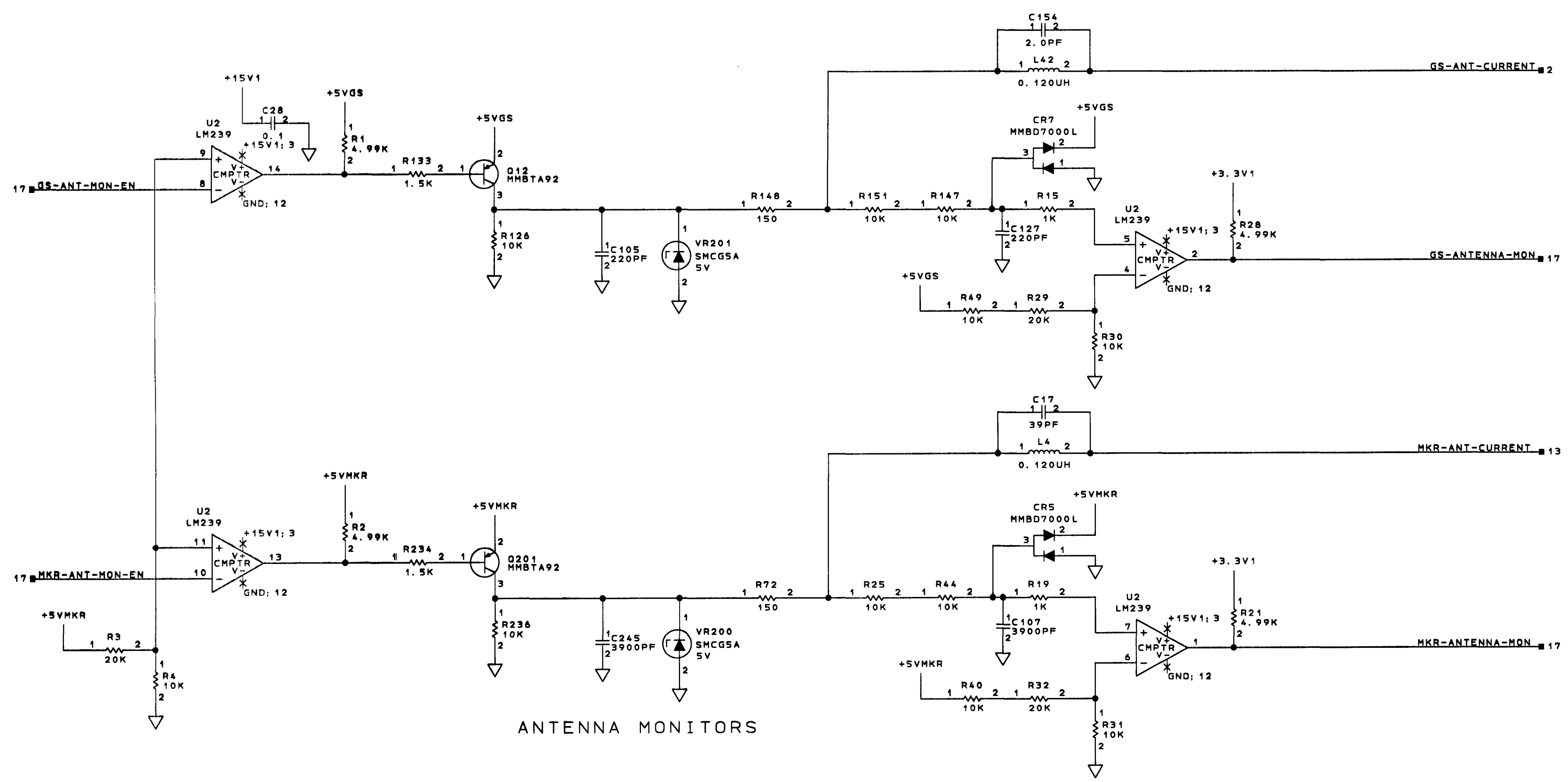
LO LEVEL COMPARATOR



SELF TEST PIN DIODE DRIVERS

S/T PIN DIODE DRIVERS AND LO MONITOR
SCHEMATIC DIAGRAM SHEET NO. 19

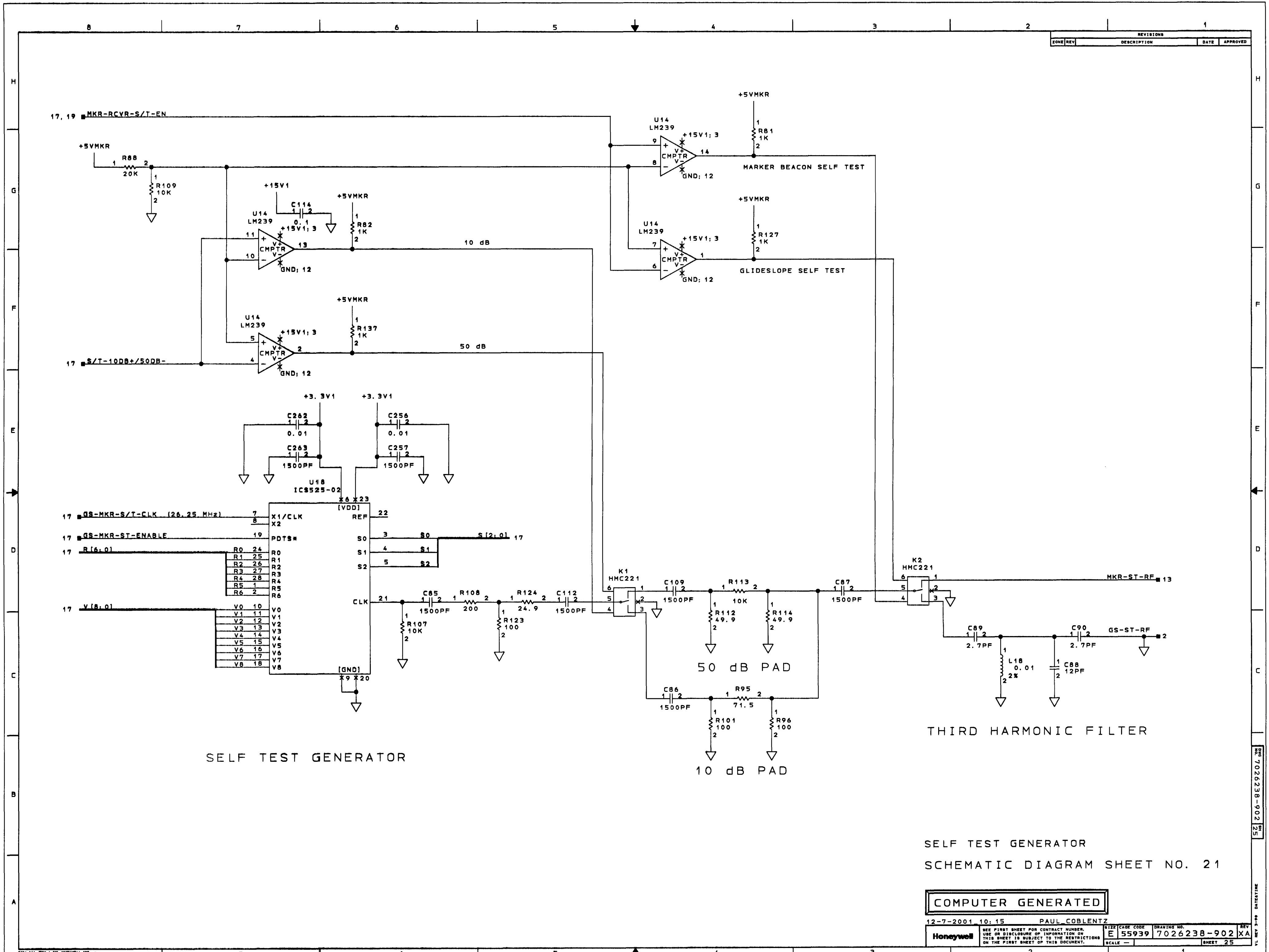
REVISIONS			
ZONE	REV	DESCRIPTION	DATE



ANTENNA MONITORS

ANTENNA MONITORS
SCHEMATIC DIAGRAM SHEET NO. 20

COMPUTER GENERATED		12-7-2001 10:15 PAUL COBLENTZ	
Honeywell	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 E 55939	DRAWING NO. 7026238-902 XA
SCALE		SHEET 24	

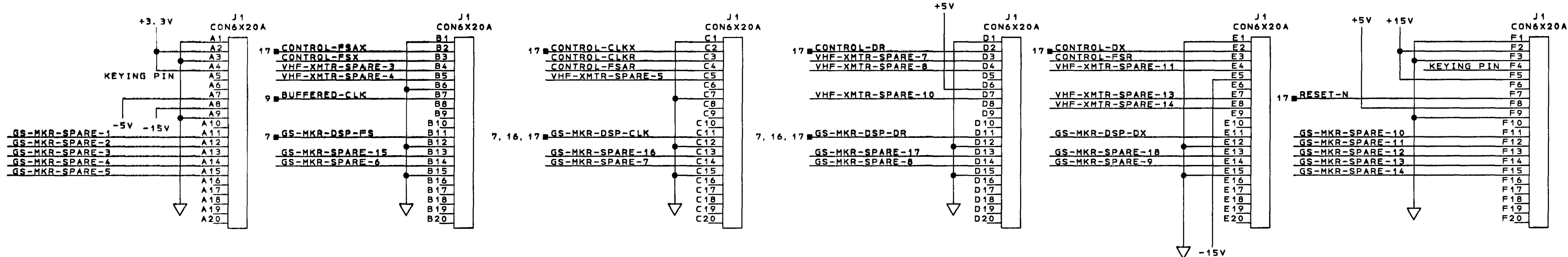
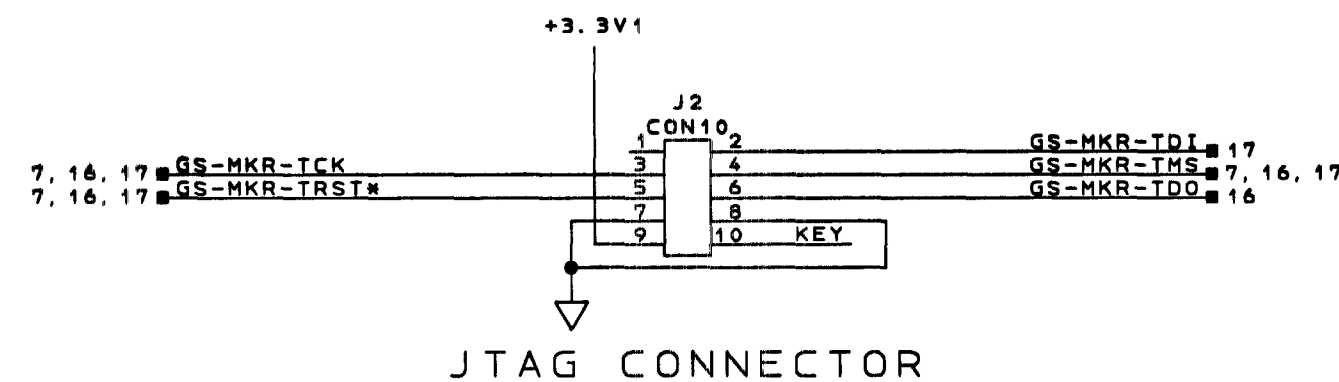
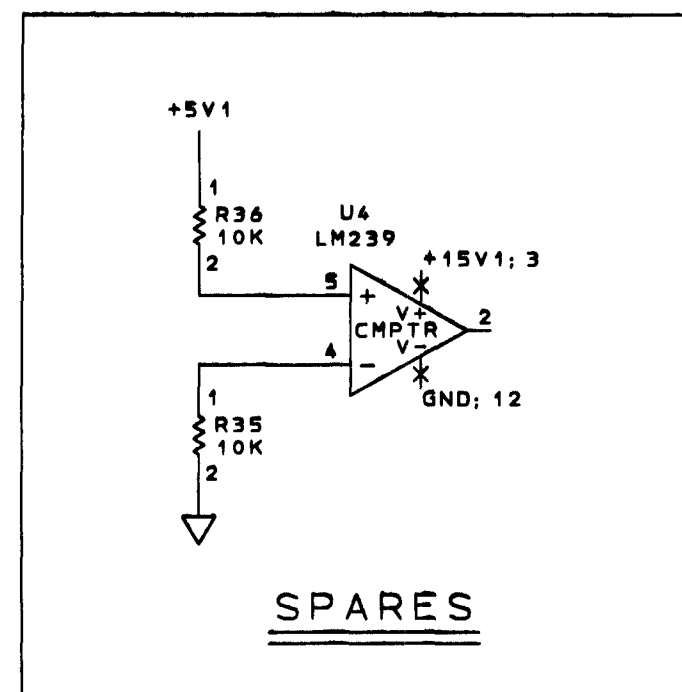


SELF TEST GENERATOR

THIRD HARMONIC FILTER

SELF TEST GENERATOR
SCHEMATIC DIAGRAM SHEET NO. 21

COMPUTER GENERATED



CONNECTOR PIN SUMMARY
AND SPARE COMPONENTS
CAD REFERENCE/REQUIREMENT
SCHEMATIC DIAGRAM SHEET NO. 22

COMPUTER GENERATED