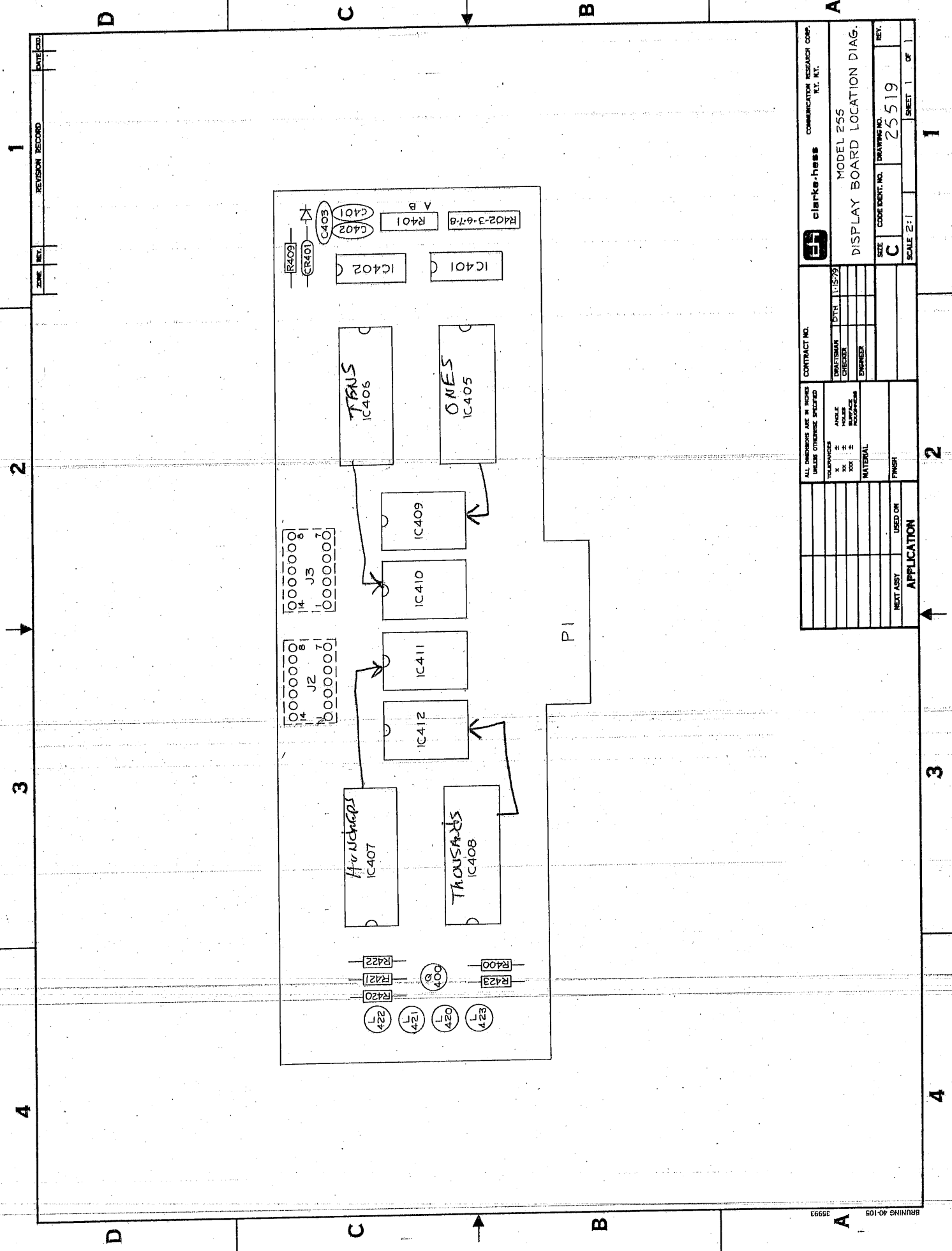


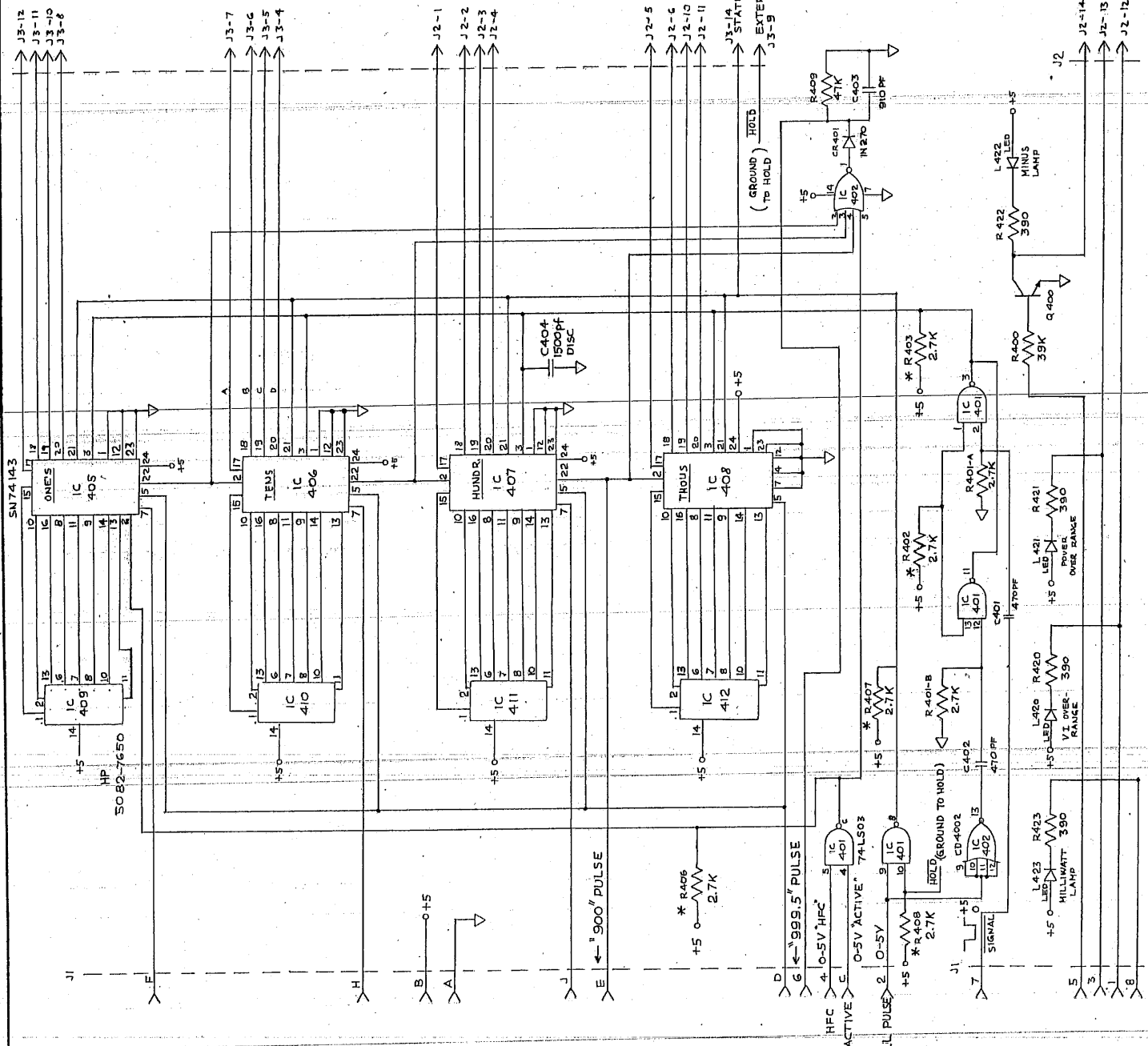
NOTES:
 1. UNLESS OTHERWISE SPECIFIED
 ALL RESISTORS ARE IN OHMS,
 ±1%, 1/4 W

TOLERANCES (EXCEPT AS NOTED)	CLARKE-HESSE COMMUNICATION RESEARCH CORP
DECIMAL	SCALE
FRACTIONAL	DRAWN BY J. 16/4-63
ANGULAR	APPROVED BY J.P.H.
DATE	TITLE
0-2-77	POWER SUPPLY SECTION
REV	DRAWING NUMBER
12-73	25518



ZONE	REV.	REVISION RECORD	DATE	BY

clarke-hess COMMUNICATION RESEARCH CORP. N.Y. N.Y.		CONTRACT NO. DRAFTSMAN CHECKED ENGINEER	DATE 11/5/79
MODEL 255 DISPLAY BOARD LOCATION DIAG.			
SIZE C	CODE IDENT. NO. 25519	DRAWING NO. 25519	REV. 1 OF 1
ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED		TOLERANCES FRACTIONS DECIMALS .0005 .0005 .0005 .001 .001 .001 .002 .002 .002 .005 .005 .005 .010 .010 .010	
MATERIAL FINISH		APPLICATION	



NOTES
 * R402, 403, 406, 407, 408 ARE CONTAINED
 * IN A SINGLE PACKAGE

SCALE: <i>1/2" = 1"</i>	APPROVED BY: <i>[Signature]</i>	DATE: <i>12-21-76</i>	DESIGNED BY: <i>V. MOJACS</i>
SCHEMATIC BOARD			REV: <i>9-77</i>
DRAWING NUMBER: <i>25520</i>			

PLEASE READ BEFORE OPERATING

The Instruction Manual contains condensed operating instructions for each type of measurement that may be made with the Model 255 or 256 Digital V-A-W Meter.

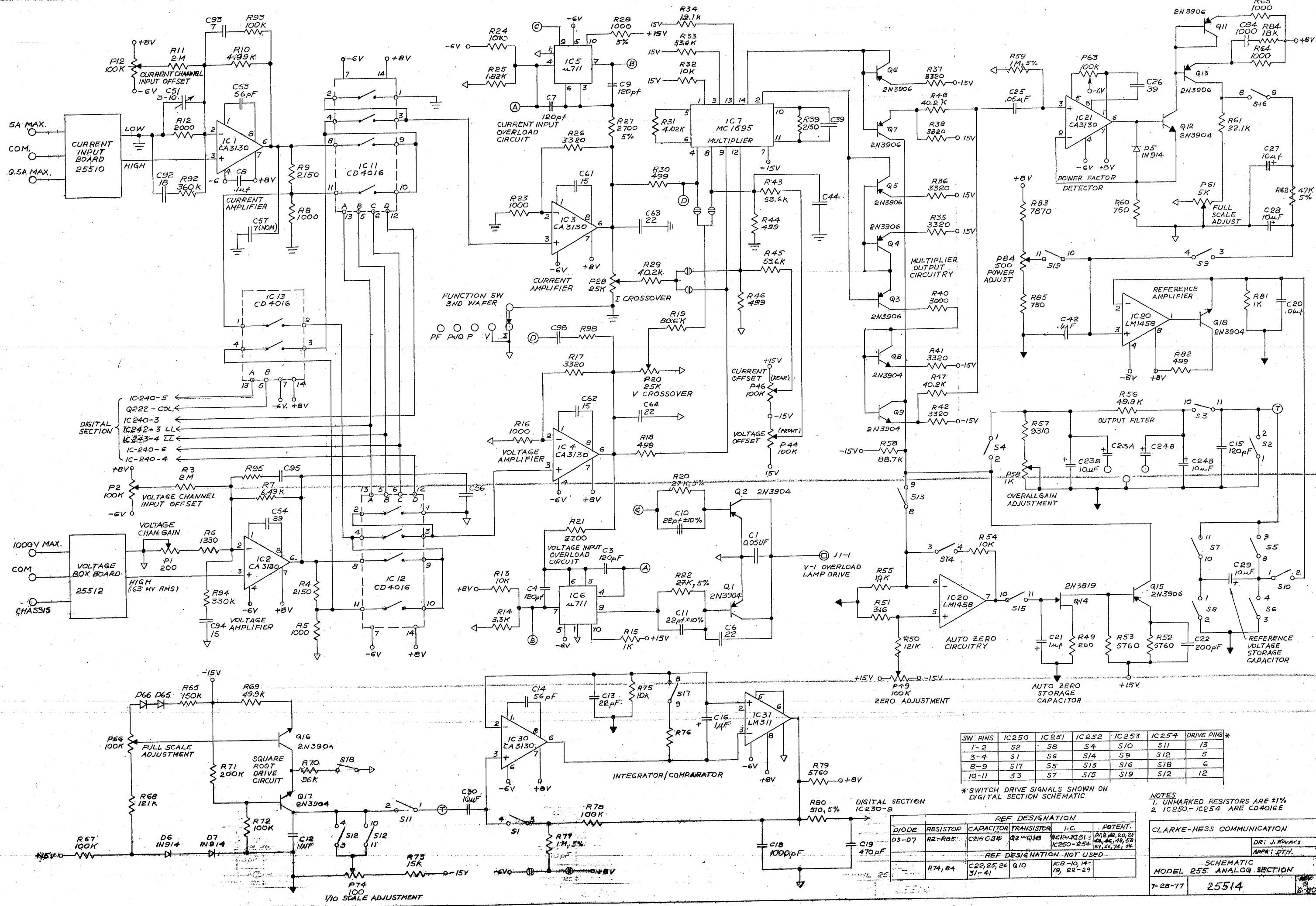
Very briefly, CURRENT below 840 mA are measured with the 0.5 MAX and CURRENT COMMON terminals and the appropriate button. CURRENTS above 840 mA must use the 5A MAX terminal. There is a 1.5 A fast acting fuse (spare enclosed) in series with the 0.5 A MAX terminal. In the Model 255 this fuse is normally located on the current board which is behind the current terminals. To replace the fuse the bottom cover of the instrument must be removed. On the Model 256 this fuse is located on the front panel to the right of the current terminals. If this fuse is blown then the three lower current ranges will not operate. (If a Model 255 has the "front panel fuse" option then the fuse is located on the front panel near the CURRENT terminals.)

VOLTAGES are measured between the two black terminals with the LOW side of the voltage input to the COMMON terminal. The green terminal is connected to the metal chassis of the instrument. The two COMMON terminals of the instrument are CONNECTED TOGETHER INTERNALLY.

POWER measurements require that the load CURRENT flow through two of the three CURRENT terminals while the HIGH voltage lead goes to the high side of the load. DO NOT CAUSE THE LOAD CURRENT TO FLOW THROUGH THE INTERNAL COMMON TO COMMON TERMINAL CONNECTION.

If high frequencies are being measured then the low side of the generator should be connected to the COMMON terminals or jitter may occur. If there is no "low" side to the generator then the best strategy is usually to "float" the instrument and then to tie the COMMON terminals to the chassis via the green terminal.

Chapter One of the Instruction Manual explains some of the special features of the instrument and should be consulted if the operation seems different from your expectations



DIGITAL SECTION
 IC-240-5
 IC-240-3
 IC-242-3 LL
 IC-243-4 LL
 IC-240-6
 IC-240-4

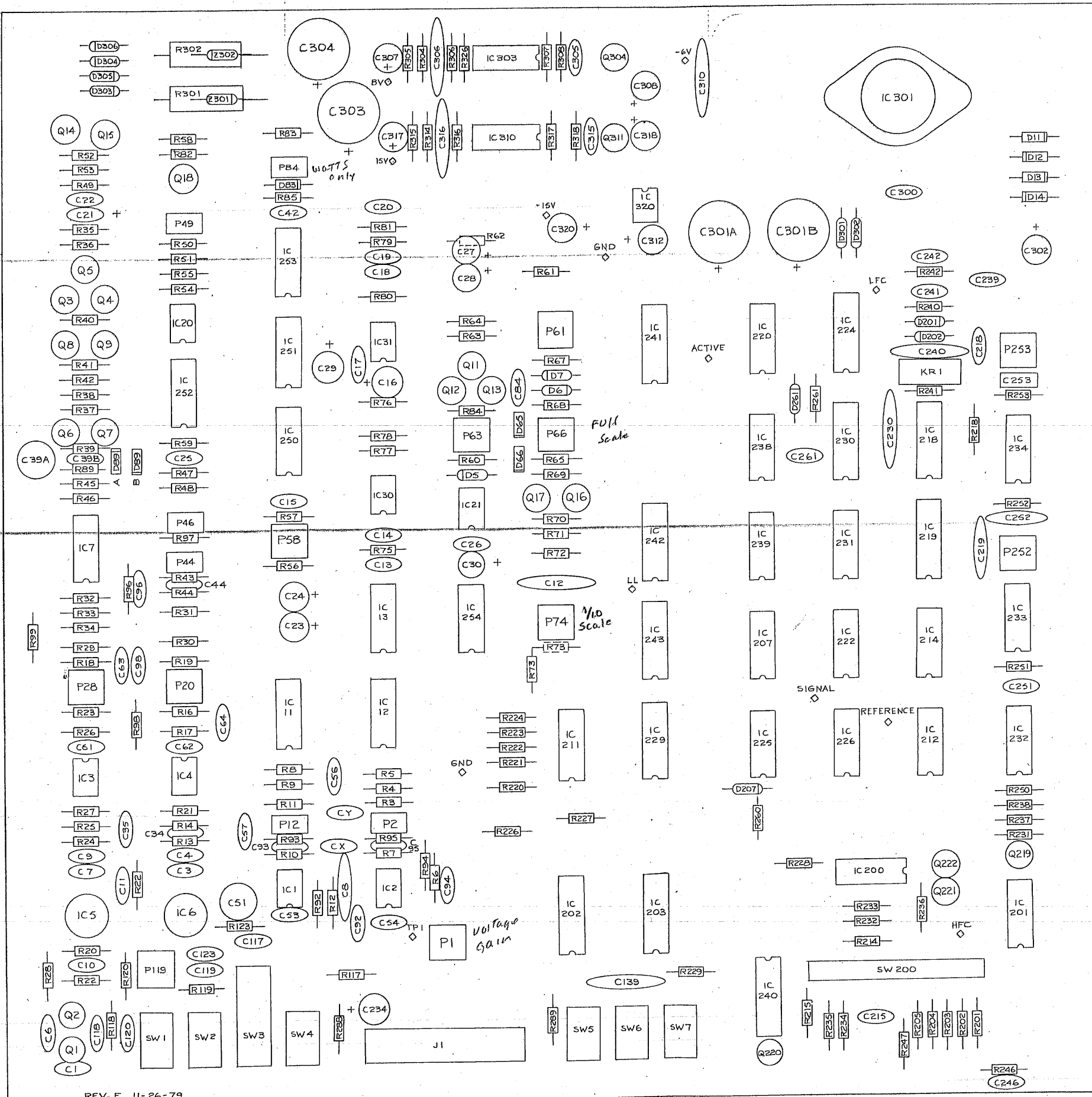
SW PINS	IC250	IC251	IC252	IC253	IC254	DRIVE PINS*
1-2	S2	S8	S4	S10	S11	13
3-4	S1	S6	S14	S9	S12	5
8-9	S17	S5	S13	S16	S18	6
10-11	S3	S7	S15	S19	S12	12

* SWITCH DRIVE SIGNALS SHOWN ON DIGITAL SECTION SCHEMATIC

REF DESIGNATION					
DIODE	RESISTOR	CAPACITOR	TRANSISTOR	IC	POTENT.
D3-D7	R2-RB5	C1-C24	Q1-Q18	IC1-IC254	P1-P19, 20-28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100
REF DESIGNATION NOT USED					
R74, 84	C22, 25, 26, 31-41	Q10	IC8-10, 14-19, 22-29		

NOTES
 1. UNMARKED RESISTORS ARE ±1%
 2. IC250-IC254 ARE CD4016

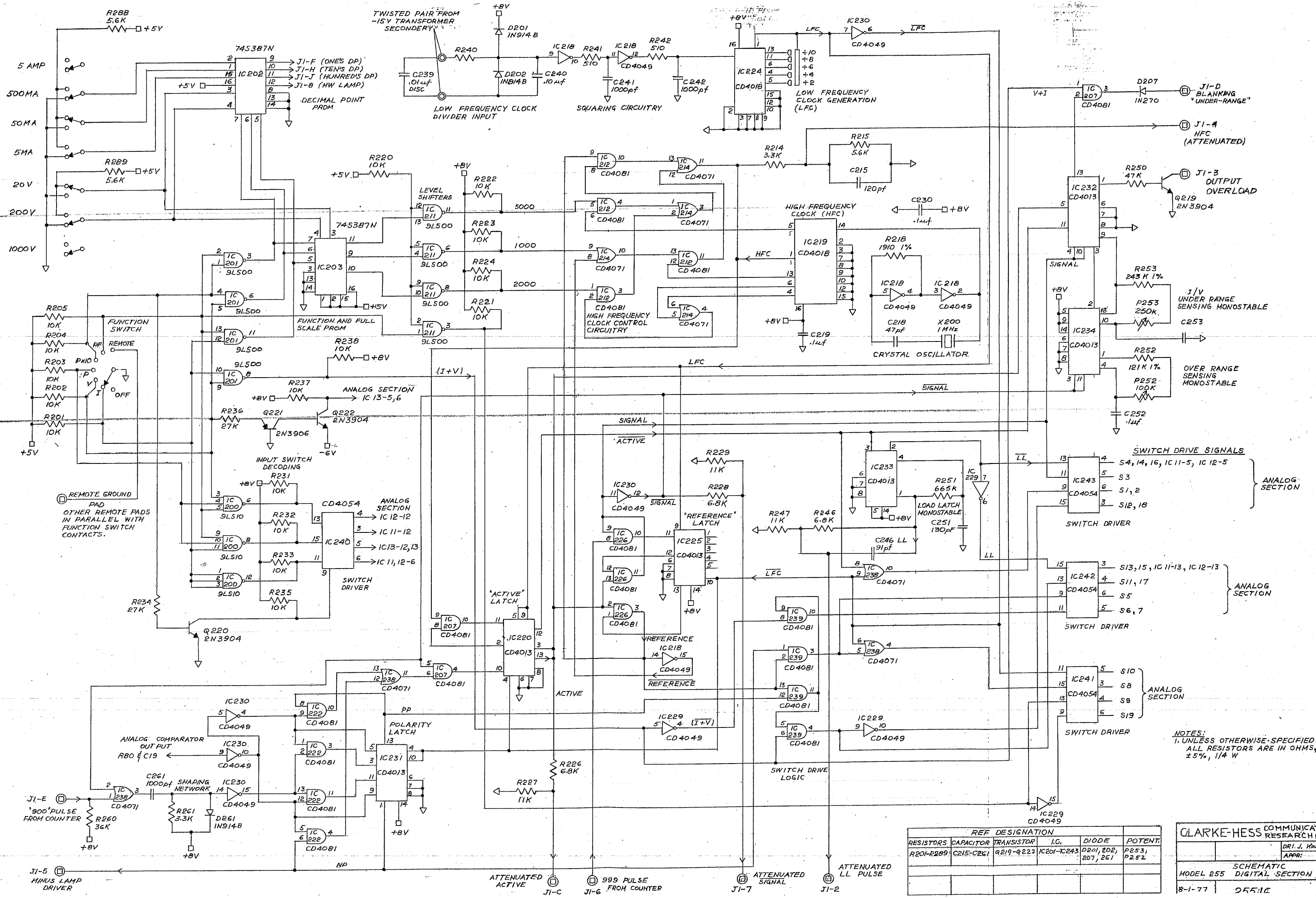
CLARKE-HESS COMMUNICATION
 DR: J. NOVACS
 APPR: DTH
 SCHEMATIC
 MODEL 255 ANALOG SECTION
 7-28-77 25514



REV. E 11-26-79

DWG NO. 25515

LOCATION DIAGRAM-MAIN PRINTED CIRCUIT BOARD



NOTES:
 1. UNLESS OTHERWISE SPECIFIED
 ALL RESISTORS ARE IN OHMS,
 ±5%, 1/4 W

REF DESIGNATION					
RESISTORS	CAPACITORS	TRANSISTORS	IC	DIODE	POTENTIOMETER
R201-R289	C215-C261	Q219-Q222	IC201-IC243	D201, D202, D207, D261	P253, P252

CLARKE-HESS COMMUNICATION RESEARCH CORP
 DR. J. HAVAS
 APPR:
 SCHEMATIC MODEL 255 DIGITAL SECTION
 8-1-77 2551E