ISSUE	DESCRIPTION	DATE	APPROVED
A	ECO 2552	12/8[illegible]	JC

-03	-02	-01	QTY REQD	PART NUMBER	CODE IDENT	DESCRIPTION	ITEM NO.

TOLERANCE UNLESS OTHERWISE SPECIFIED
.XX = ±
.XXX = ±
ANGULAR
SURFACE
SCALE

MATERIAL
FINISH
DRAWING TITLE: SCHEMATIC, ECL BD 1280

DWN.
CHK
APPD [illegible] 12/81

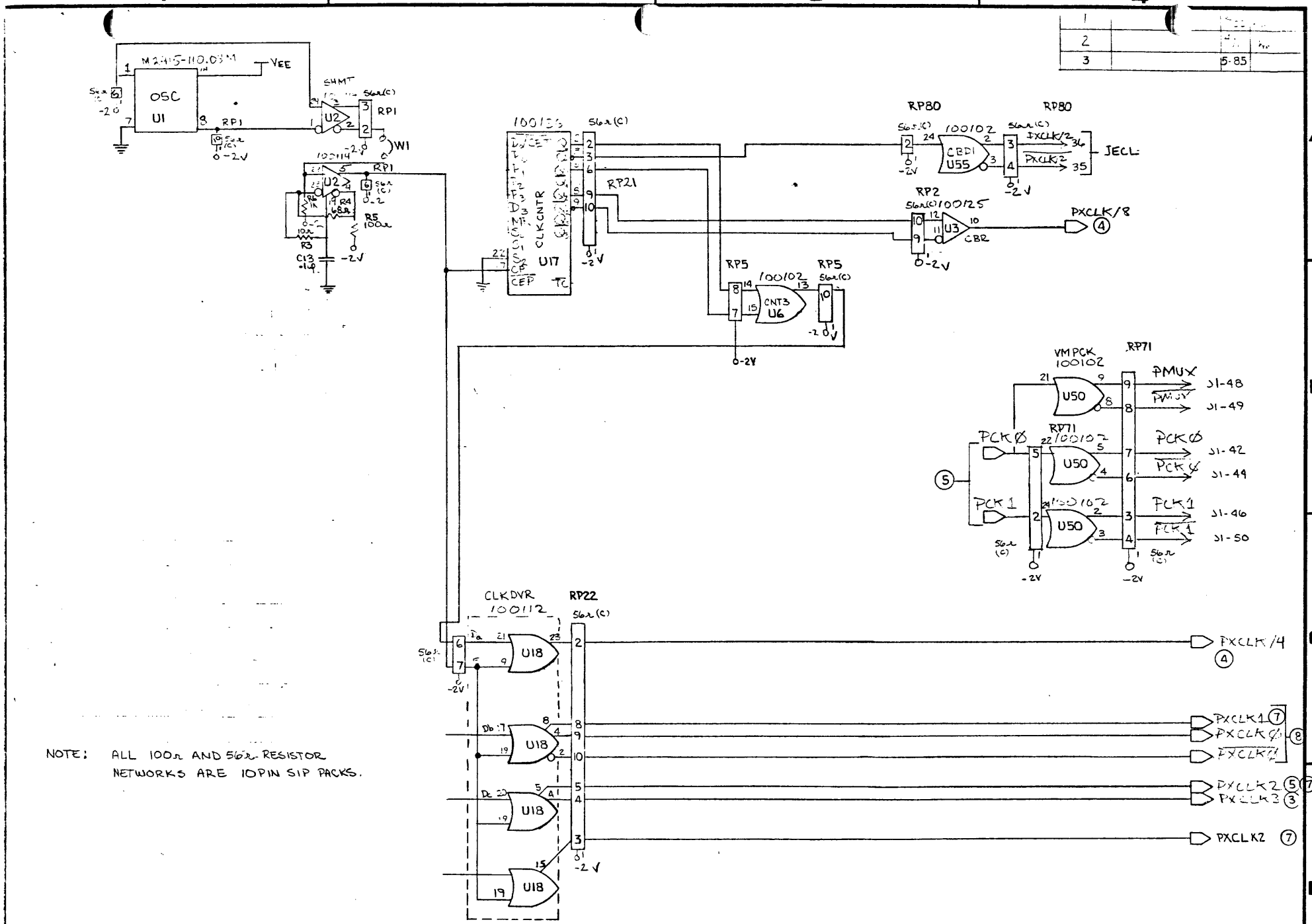
DASH NO.	NEXT ASSY	USED ON
C1	120257-01	1280

APPLICATION

ADVANCED ELECTRONICS DESIGN, INC.
SUNNYVALE, CALIF. 94086

C | DRAWING NUMBER 120258-01 | REV A

SHEET [illegible] OF [illegible]

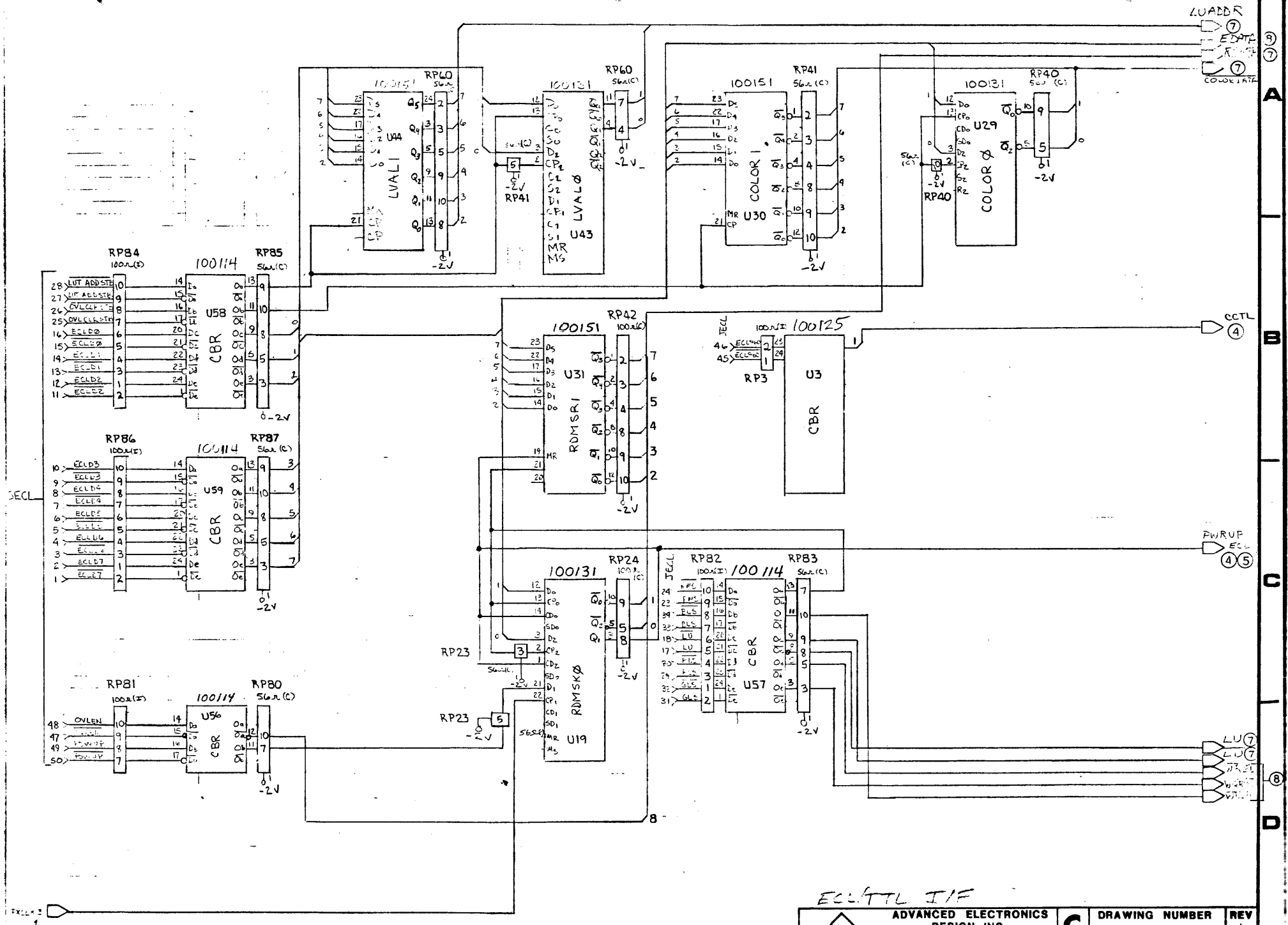


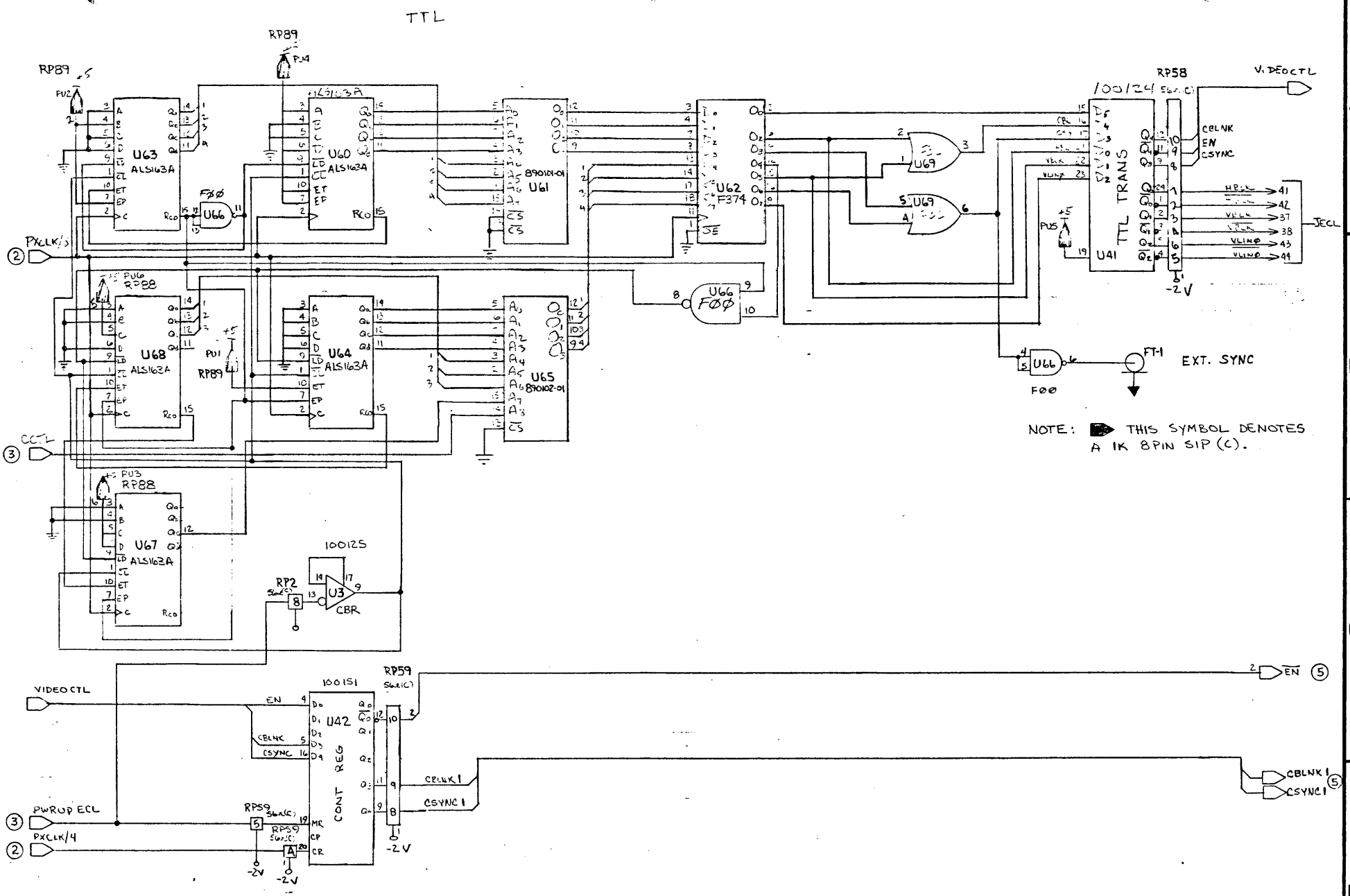
NOTE: ALL 100Ω AND 56Ω RESISTOR NETWORKS ARE 10PIN SIP PACKS.

1		
2		
3		5-85

ECL CLOCK/IF

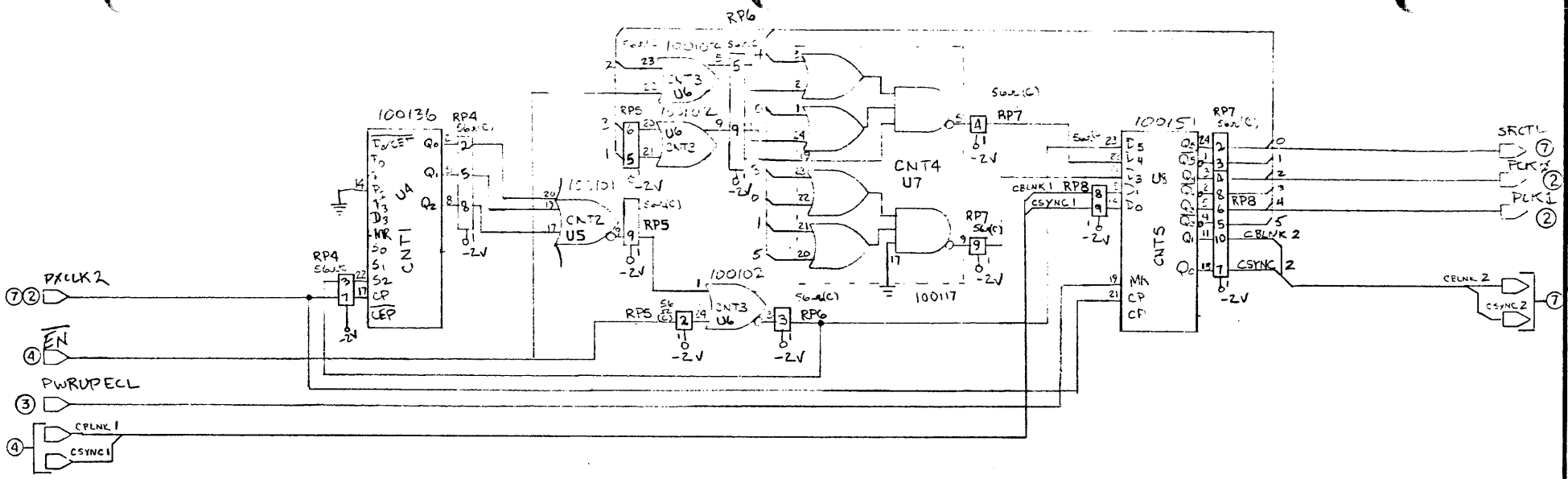
ADVANCED ELECTRONICS DESIGN, INC. SUNNYVALE, CALIF. 94086	C	DRAWING NUMBER 120255-01	REV A


LVALI
U44
LVALØ
U43
COLOR 1
U30
COLOR Ø
U29
RDMSKI
U31
RDMSKØ
U19
CBR
U58
CBR
U59
CBR
U56
CBR
U57
CBR
U3
RP60
RP41
RP40
RP84
RP85
RP86
RP87
RP81
RP80
RP42
RP3
RP24
RP82
RP83
RP23
100151
100131
100114
100125
LUADDR
EDATA
COLOR DATA
CCTL
PWRUP
LU
ECL/TTL I/F
ADVANCED ELECTRONICS DESIGN, INC.
SUNNYVALE, CALIF. 94086
DRAWING NUMBER
170255-01
REV
A
SHEET 3 OF 12



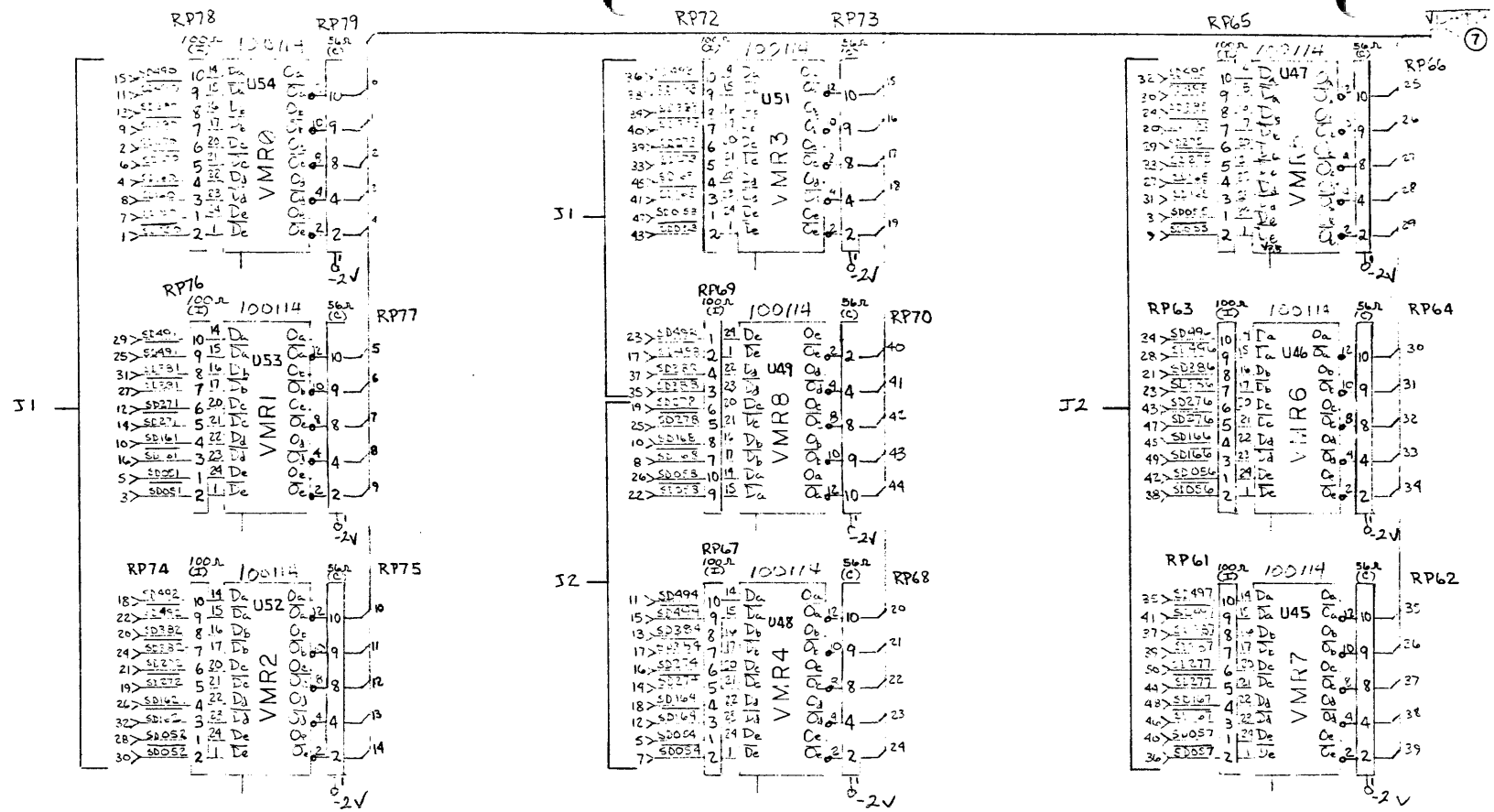
ADVANCED ELECTRONICS DESIGN, INC. SUNNYVALE, CALIF. 94086	C	DRAWING NUMBER 12D2[illegible]-01	REV A

SHEET 11 OF 17



ECL DATA CTL

ADVANCED ELECTRONICS DESIGN, INC. SUNNYVALE, CALIF. 94086	C	DRAWING NUMBER 120259-01	REV A

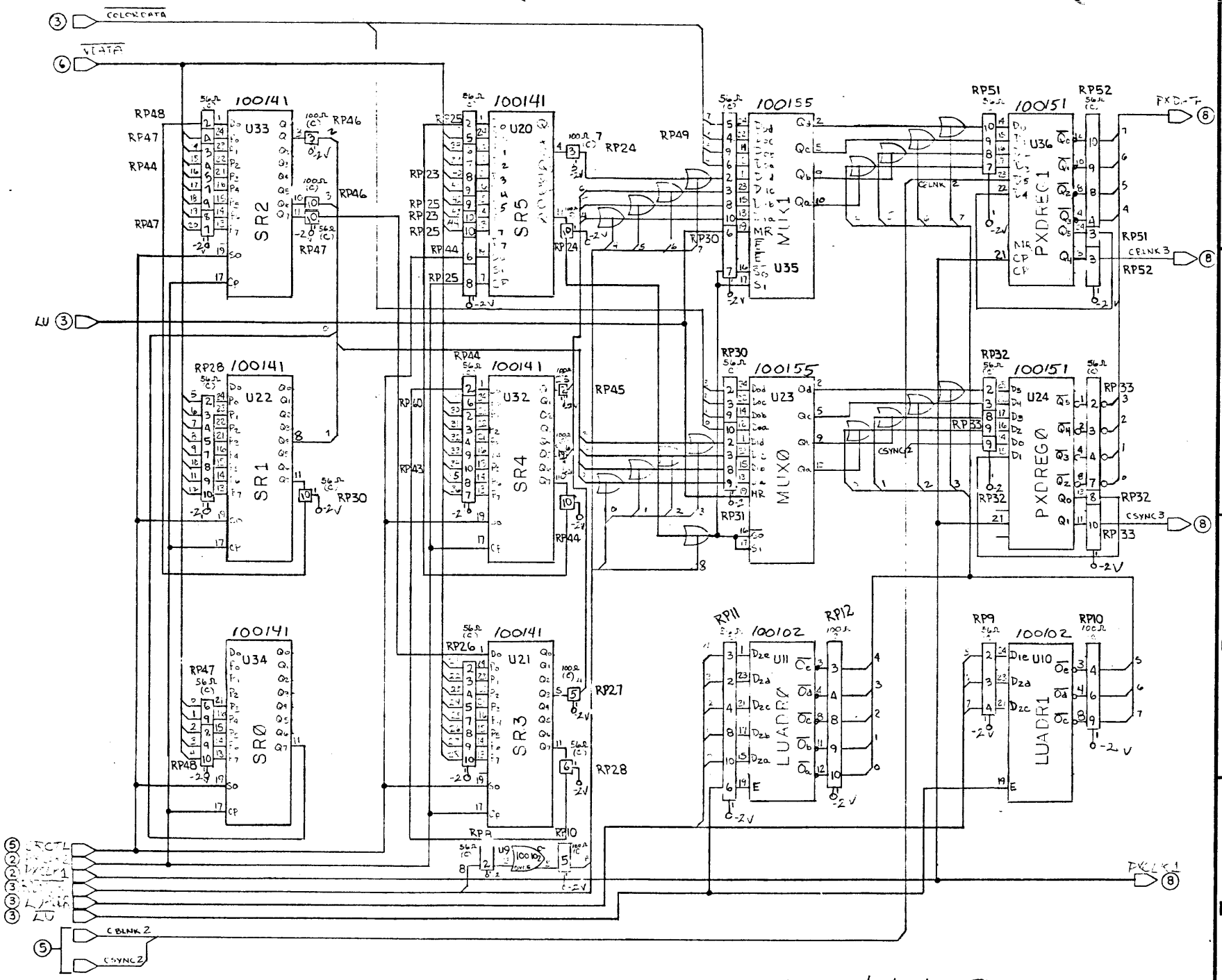


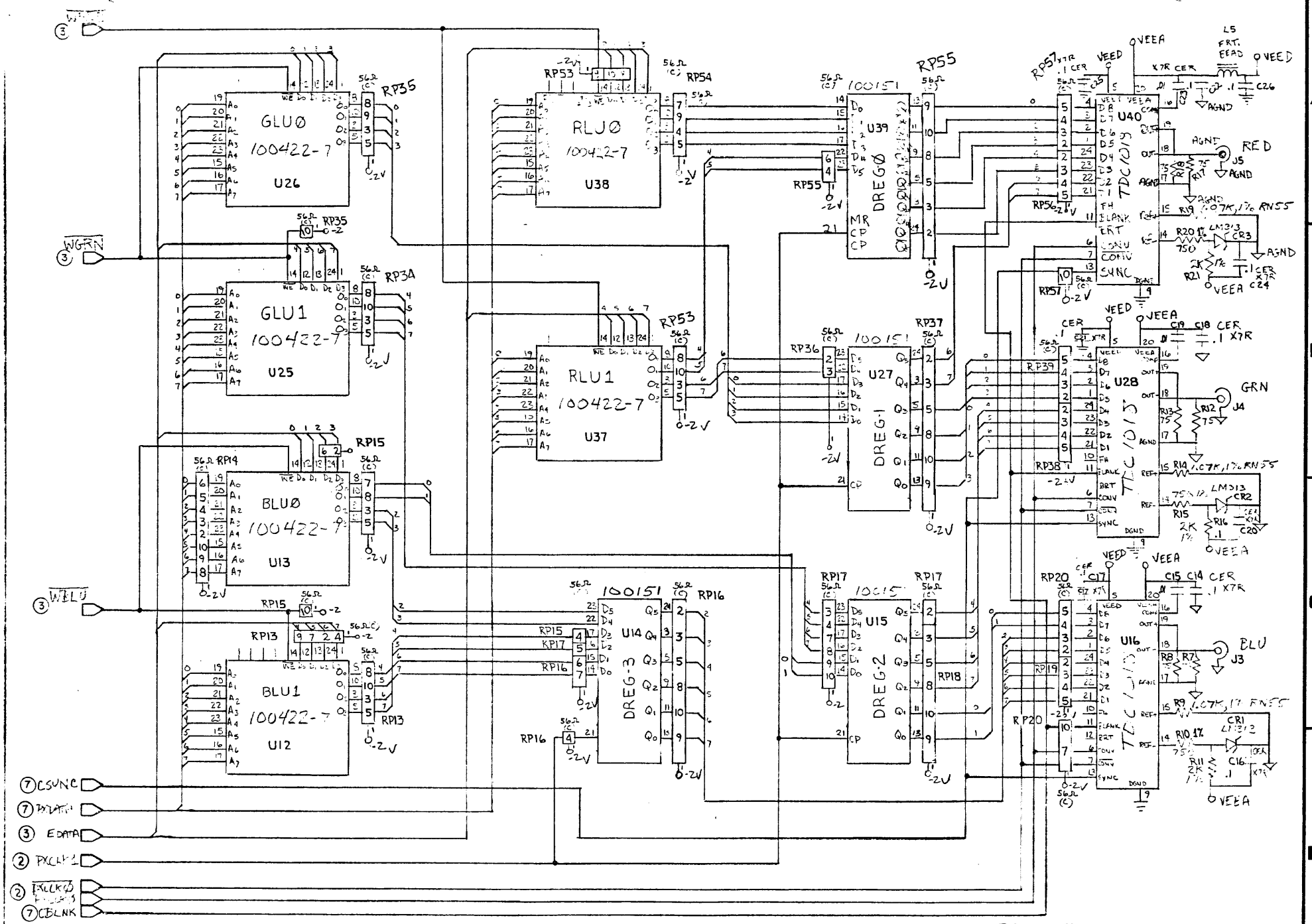
VIDEODATA

ADVANCED ELECTRONICS DESIGN, INC.
SUNNYVALE, CALIF. 94086

C | DRAWING NUMBER 102253-01 | REV A

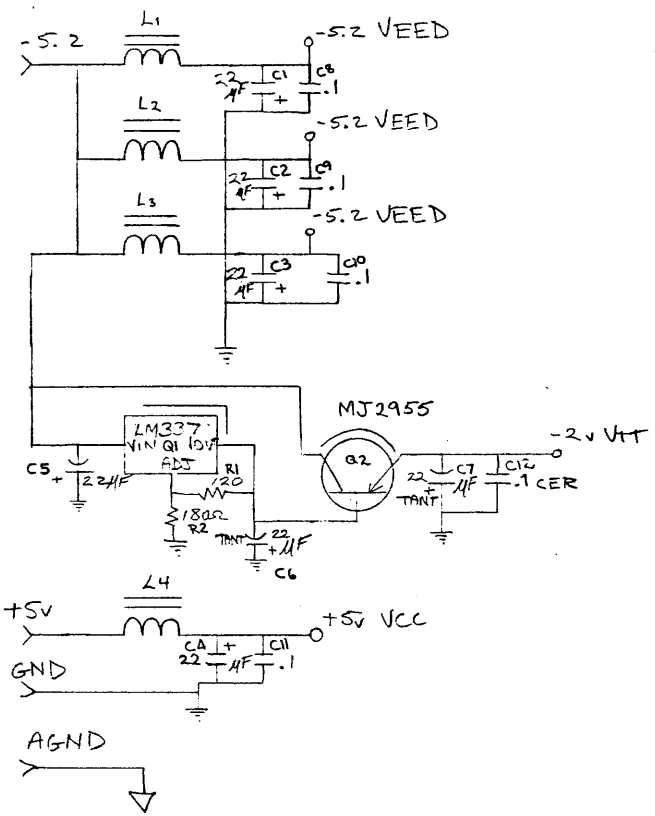
SHEET 1 OF 12


COLOR DATA
VIDATA
LD
CBLNK Z
CSYNC Z
100141
100155
100151
100102
U33
U20
U22
U32
U21
U34
U35
U36
U23
U24
U11
U10
U9
SR2
SR5
SR1
SR4
SR3
SRØ
MUX1
MUXØ
PXDREG1
PXDREGØ
LUADR1
LUADRØ
RP48
RP47
RP46
RP24
RP49
RP30
RP51
RP52
RP28
RP45
RP44
RP43
RP33
RP32
RP26
RP27
RP11
RP12
RP9
RP10
CBLNK 3
CSYNC 3
PXDOT
PXCLK 1
-2V
VID SR./ MASK CTL
ADVANCED ELECTRONICS DESIGN, INC.
SUNNYVALE, CALIF. 94086
C
DRAWING NUMBER
REV
A



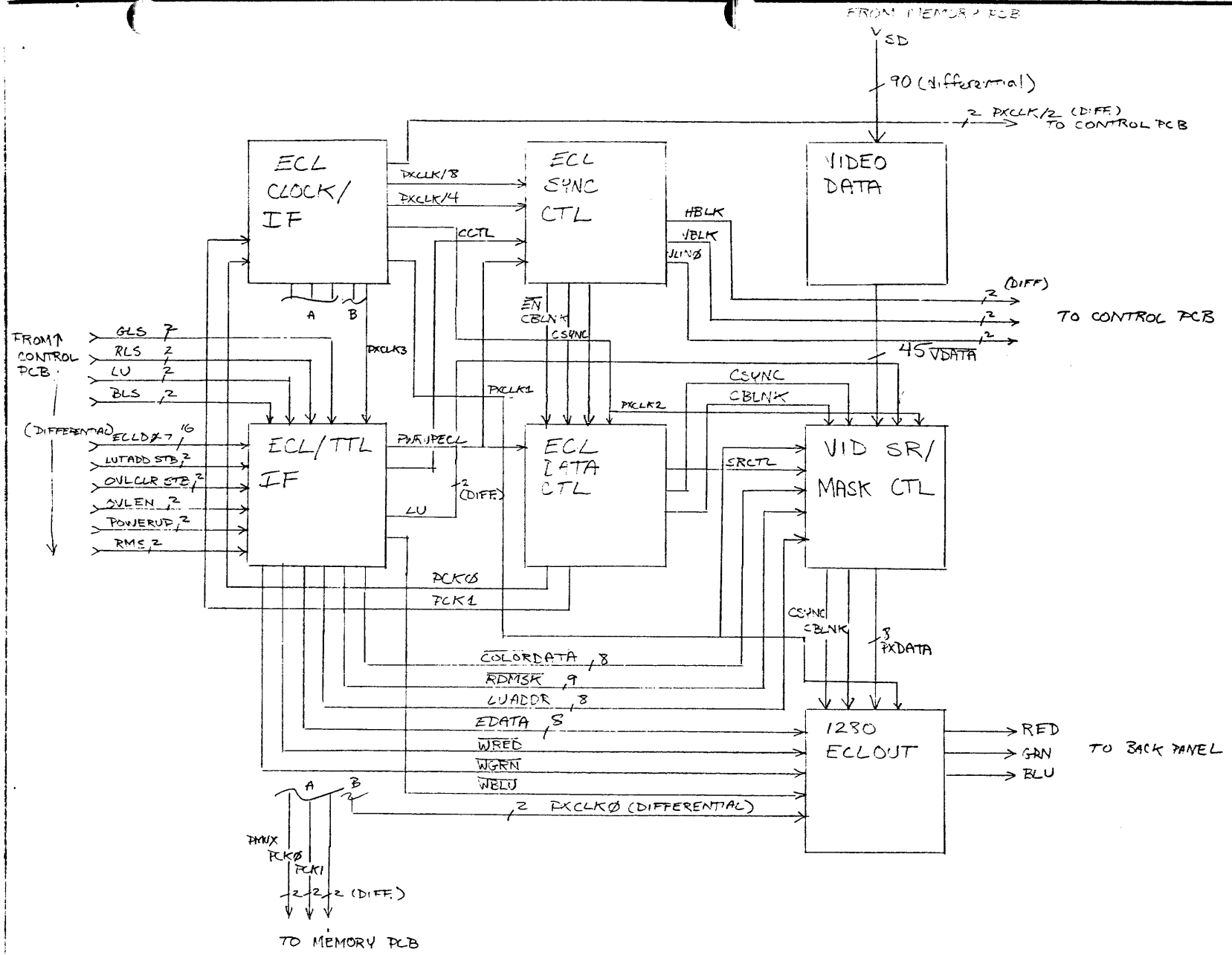
ADVANCED ELECTRONICS DESIGN, INC. SUNNYVALE, CALIF. 94086	C	DRAWING NUMBER 120255-01	REV A

NOTES: .1 - Lx are FairRite Shield Bead PN 2643666801 w/ 2 TURNS #22 AWG SOLID WIRE
22µF, 50V Filter Caps are Mallory Solid Tantalum Type THF or equivalent
.1µF, 50V are Monolithic Ceramic Type Z5U
.01, 50V are Monolithic Ceramic Type X7R
RESISTORS ARE 5% 1/4 Watt UNLESS NOTED OTHERWISE



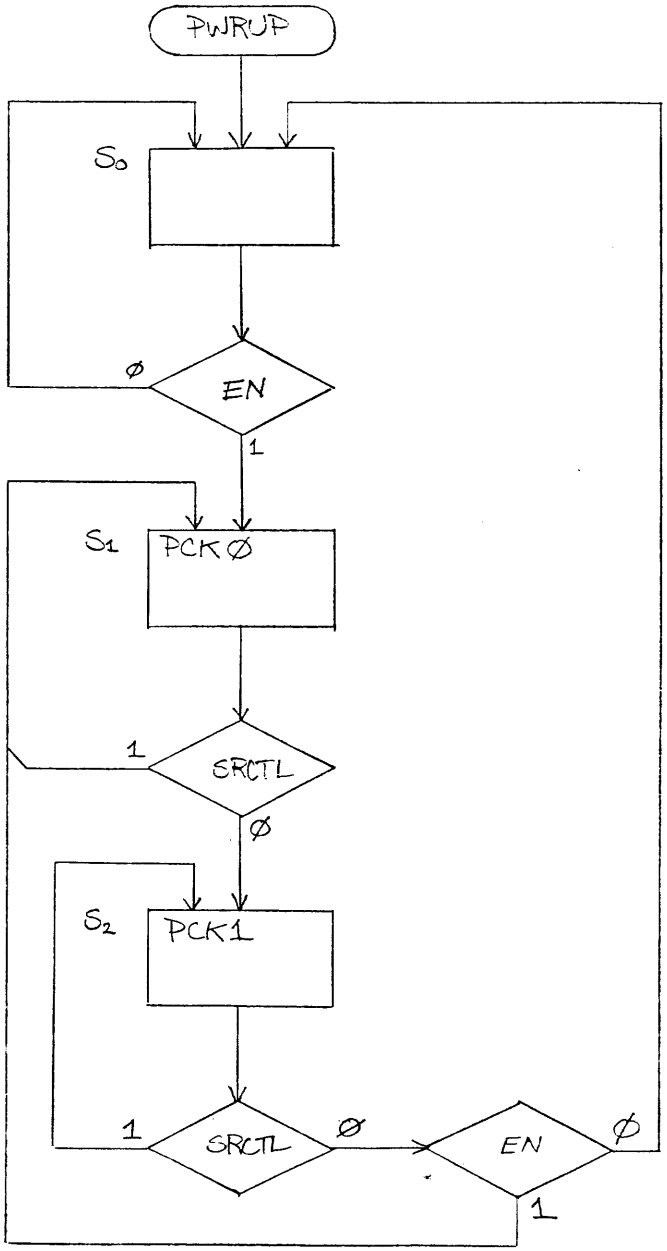
ECL ZONER

ADVANCED ELECTRONICS DESIGN, INC. SUNNYVALE, CALIF. 94086	C	DRAWING NUMBER 120258-01	REV A



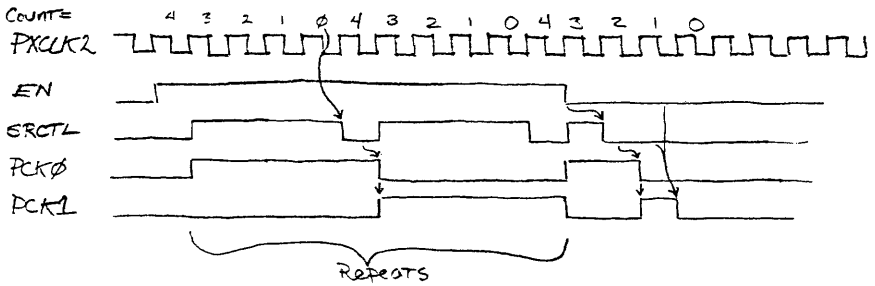
ECL PCB BLOCK DIA

ADVANCED ELECTRONICS DESIGN, INC. SUNNYVALE, CALIF. 94086	C	DRAWING NUMBER 120258-01	REV A



$$\overline{PCK\emptyset} = (\overline{PCK\emptyset} + \overline{SRCTL}) \cdot (\overline{EN} + PCK\emptyset + PCK1) \cdot (PCK\emptyset + \overline{EN} + SRCTL)$$

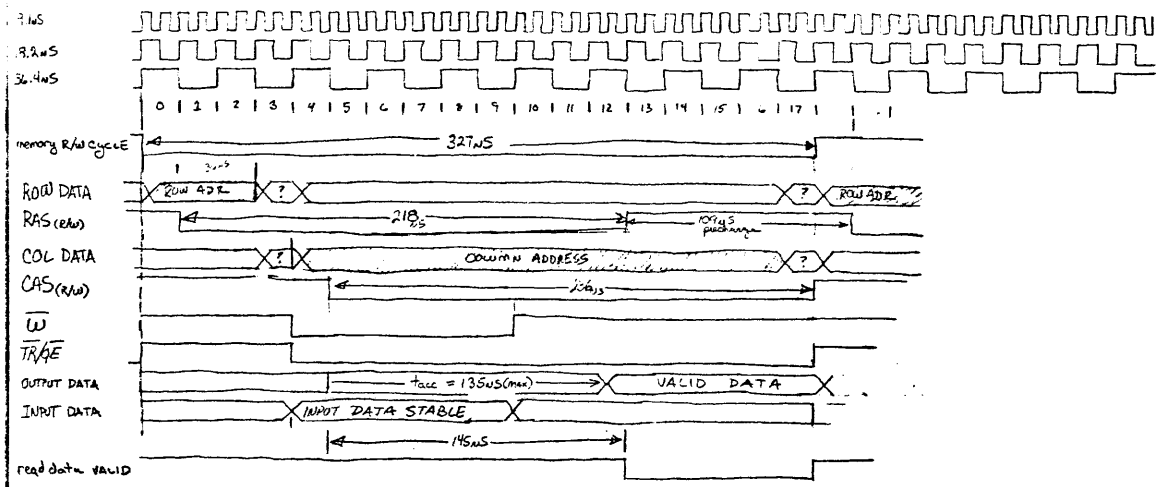
$$\overline{PCK1} = (\overline{PCK\emptyset} + SRCTL) \cdot (\overline{SRCTL} + \overline{PCK1})$$

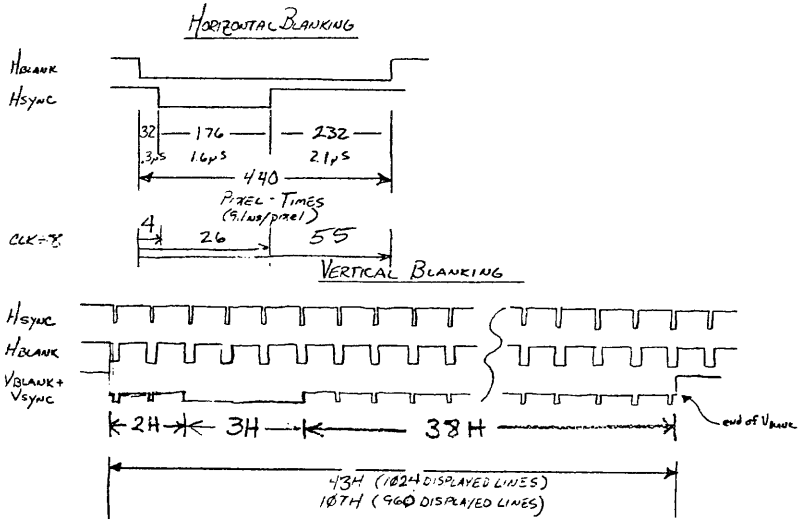


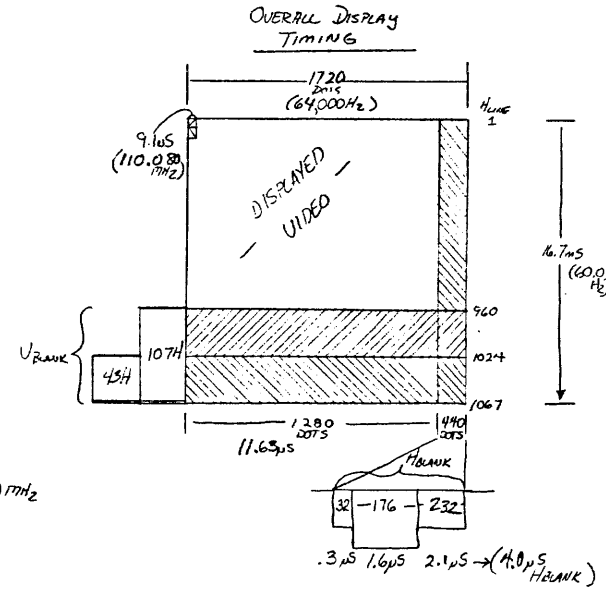
PCKØ = PMUX (switches memory PCB mux between groups of 5X9 4161 Shift Registers)

ECL DATA CONTROL SM.

ADVANCED ELECTRONICS DESIGN, INC. SUNNYVALE, CALIF. 94086	C	DRAWING NUMBER 120258-01	REV A







$f_{DOT} = 1720 \times 64{,}000 = 110.080\ MHz$

$f_{VERT} = 64{,}000 / 1067 = 60.0\ Hz$

1280 MASTER TIMING

ADVANCED ELECTRONICS DESIGN, INC. SUNNYVALE, CALIF. 94086	C	DRAWING NUMBER 120258-01	REV A