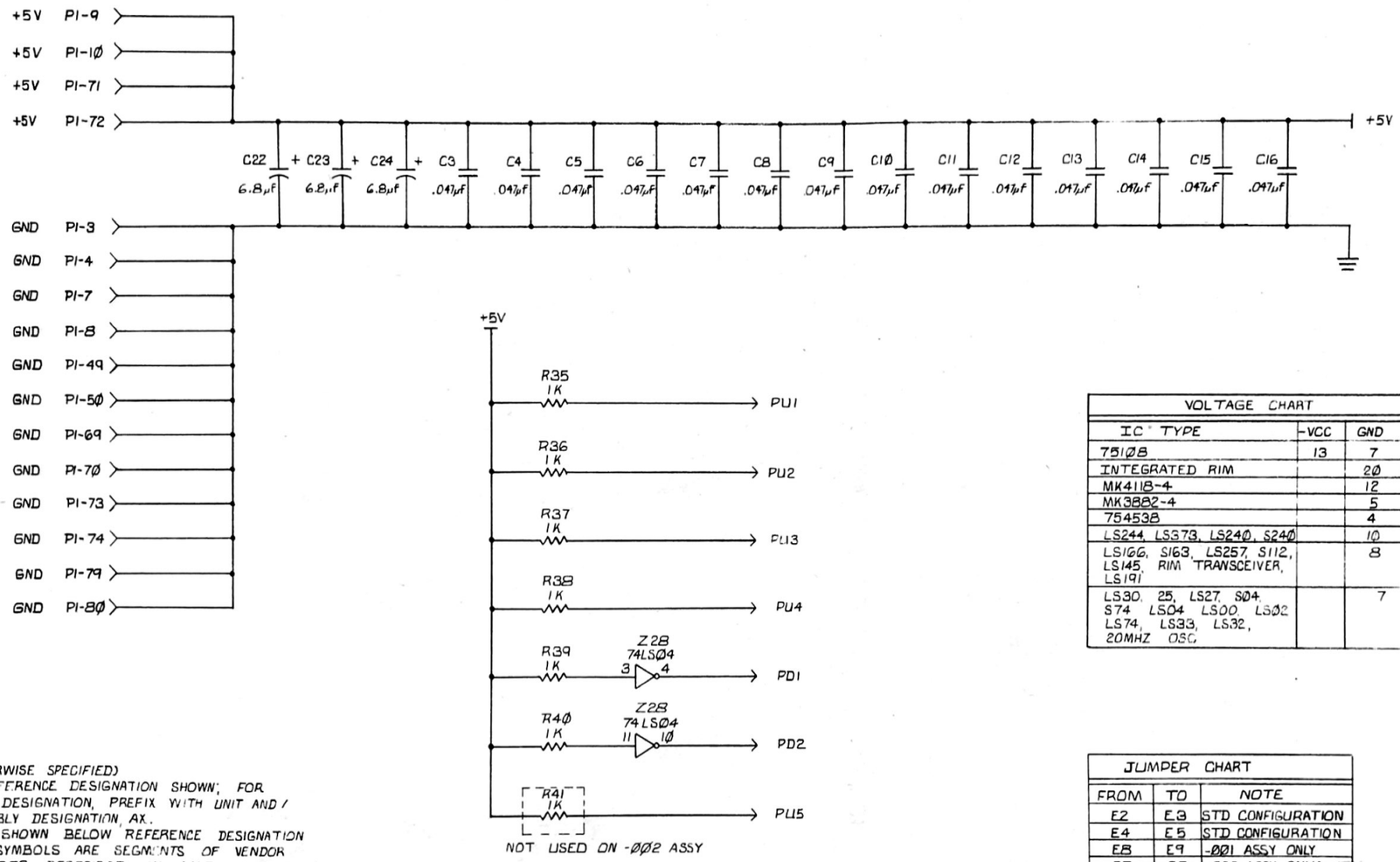
REVISION				
ZONE	LTR	DESCRIPTION	DATE	APPROVED



NOT USED ON -00 2 ASSY

NOTES:
(UNLESS OTHERWISE SPECIFIED)
1. PARTIAL REFERENCE DESIGNATION SHOWN; FOR COMPLETE DESIGNATION, PREFIX WITH UNIT AND / OR ASSEMBLY DESIGNATION, AX.
2. NUMBERS SHOWN BELOW REFERENCE DESIGNATION IN LOGIC SYMBOLS ARE SEGMENTS OF VENDOR PART NUMBER DESCRIBED IN PART. LIST
3. LOGIC SYMBOLS PER USA-STD Y32.14; ELECTRONIC SYMBOLS PER USA-STD Y32.2-67
4. ALL RESISTOR VALUES ARE IN OHMS, 5% 1/4 W

VOLTAGE CHART			
IC TYPE	-VCC	GND	+5V
7510B	13	7	14
INTEGRATED RIM		20	39
MK4118-4		12	24
MK3882-4		5	24
754538		4	8
LS244, LS373, LS240, S240		10	20
LS166, S163, LS257, S112, LS145, RIM TRANSCEIVER, LS191		8	16
LS30, 25, LS27, S04, S74 LS04 LS00 LS02 LS74, LS33, LS32, 20MHZ OSC.		7	14

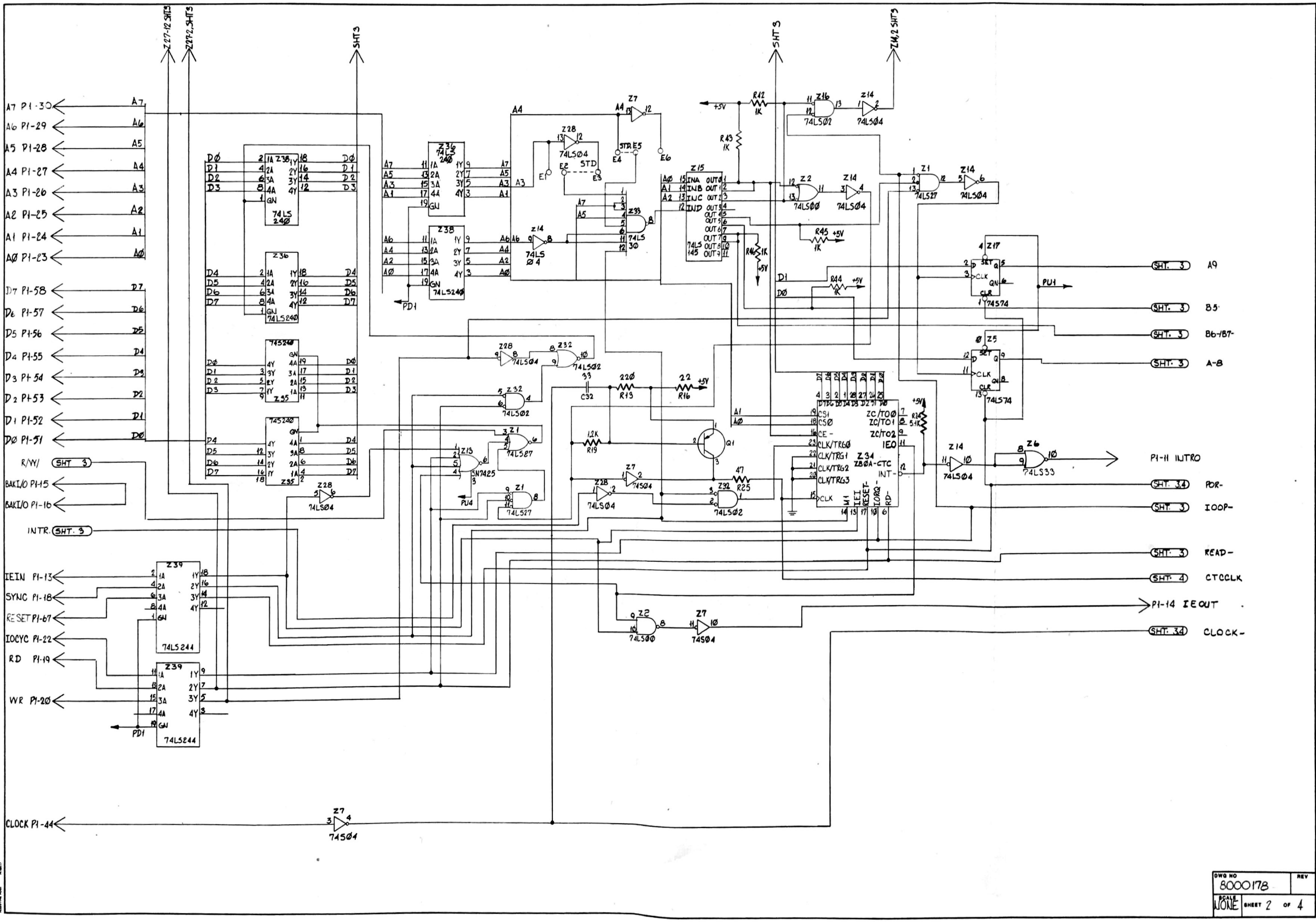
REF DES	
LAST USED	NOT USED
T1	
J2	
R46	R32, R33
CR1	
C32	
Z49	
L5	
Q3	
E9	

JUMPER CHART		
FROM	TO	NOTE
E2	E3	STD CONFIGURATION
E4	E5	STD CONFIGURATION
E6	E9	-001 ASSY ONLY
E7	E8	-002 ASSY ONLY

SPARES			
REF DES	TYPE	INPUT	OUTPUT
Z6	LS33	11 12	13
Z20	S04	11	10
Z31	LS00	13, 12	11
Z31	LS00	9, 10	8
Z31	LS00	4, 5	6
Z13	7425	9, 10, 12, 13	8

REF: DRILL PLAN 1700216

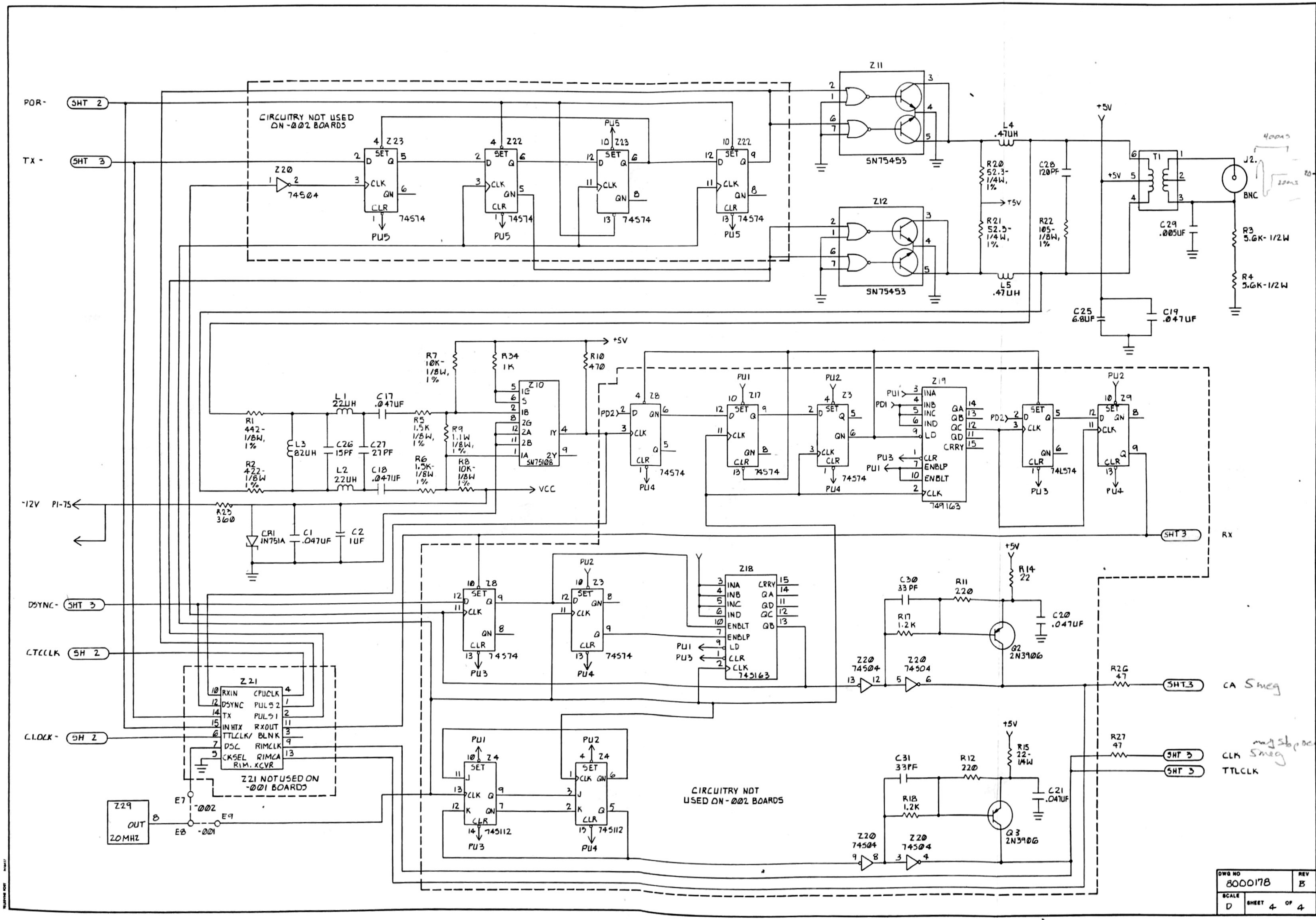
MATERIAL	UNLESS OTHERWISE SPECIFIED			DRAFT HATFIELD, BOYER, TERRY	DATE 12-6-82	TITLE
FINISH	TOLERANCES .XX=±.010 .XXX=±.005 ANGLES=±1° HOLE DIA TOLERANCES .014-.250 = +.005 -.001; .251-.750 = +.008 -.001; .751-UP = +.015 -.001			CHECK	DATE	SCHEMATIC DIAGRAM ARC INTERFACE BOARD
				DESIGN	DATE	
				APPD	DATE	
				APPD	DATE	
	DIMENSIONS ARE IN INCHES AND APPLY AFTER PLATING			tandy	DWG. NO. 8000178	SIZE
	DO NOT SCALE THIS DRAWING	NEXT ASSY.	USED ON		SCALE NONE	SHEET 1 OF 4



A7 P1-30
A6 P1-29
A5 P1-28
A4 P1-27
A3 P1-26
A2 P1-25
A1 P1-24
AØ P1-23
D7 P1-58
D6 P1-57
D5 P1-56
D4 P1-55
D3 P1-54
D2 P1-53
D1 P1-52
DØ P1-51
R/W/ SHT 3
BAKI/O P1-15
BAKI/O P1-16
INTR. SHT 3
IEIN P1-13
SYNC P1-18
RESET P1-67
IOCYC P1-22
RD P1-19
WR P1-20
CLOCK P1-44
Z27-12 SHT3
Z27-2 SHT3
SHT3
SHT 3
Z14-2 SHT3
74LS240
74LS244
74LS04
74LS02
74LS00
74LS27
74LS30
74LS33
74LS74
74LS145
SN7425
Z80A-CTC
SHT. 3 A9
SHT. 3 B5
SHT. 3 B6+B7-
SHT. 3 A-8
P1-11 INTRO
SHT. 3,4 POR-
SHT. 3 IOOP-
SHT. 3 READ-
SHT. 4 CTCCLK
P1-14 IEOUT
SHT. 3,4 CLOCK-
PU1
PD1
PU4
DWG NO 8000178
REV
SCALE NONE
SHEET 2 OF 4

DATEN-
AWAIT-
ADIE-
DASEL
SHT. 2
MREQ-
SHT. 2
74LS32 Z27
74LS191 Z49
74LS191 Z47
74LS244 Z37
74LS244 Z37
74LS257 Z43
74LS257 Z45
74LS373 Z42
RB7 RB6 RB5 RB4 RB3 RB2 RB1 RB0
SEE SHT 2-Z14
TTLCLK SHT 4
RX SHT 4
CLK SHT 4
CA SHT 4
POR- SHT 2
SHT 2 MREQ-
SHT 4 TX-
SHT 4 DSYNC-
SHT 2 ADIE-
SHT 2 INTR
Z40 47
R18 1K +5V
Z41 RIM
RX CLK CA POR- MREQ- IOREQ- DWR- A5 REQ R/W WAIT ILE- RBB RB9 RB10 AIE-
RB7 RB6 RB5 RB4 RB3 RB2 RB1 RB0 L OE- WE-
TX- DSYNC ADIE- INTR ET1 ET2 TEST1 TEST2 ECHO IDLD IDDAT
R29 1K +5V
R30 1K +5V
R31 1K +5V
PD2
PD1
Z30 74LS166
+5V
Z25
Z26
CLOCK- SHT 2
B5- SHT 2
IOOP- SHT 2
B6-/B7- SHT 2
READ- SHT 2
A9 SHT 2
A8 SHT 2
74LS32 Z27
74LS00 Z31
74S04 Z7
74LS74 PU2 Z5
74LS33 Z6
74S04 Z14
74LS02 Z32
74LS02 Z16
74LS33 Z6
74LS02 Z16
74LS02 Z16
74LS00 Z2
74LS00 Z2
Z46 47
74LS373 Z44
Z48
74LS257
Z24 WR4118
RB7 RB6 RB5 RB4 RB3 RB2 RB1 RB0
RB0 RB1 RB2
P1-48 WAIT
SHT 2 EWAIT
SHT 2 R/W/
SHT 2 DATEN-
SHT 2 DATSEL
74S04 Z7

DWG NO	REV
8000178	
SCALE NONE	SHEET 3 OF 4



POR- SHT 2
TX- SHT 3
CIRCUITRY NOT USED ON -002 BOARDS
Z20 74S04
Z23 74S74
Z22 74S74
Z11 SN75453
Z12 SN75453
L4 .47UH
L5 .47UH
R20 52.3-1/4W, 1%
R21 52.3-1/4W, 1%
C28 120PF
R22 105-1/8W, 1%
+5V
T1
J2 BNC
C29 .005UF
R3 5.6K-1/2W
R4 5.6K-1/2W
C25 6.8UF
C19 .047UF
R7 10K-1/8W, 1%
R34 1K
R10 470
Z10 SN75108
R1 442-1/8W, 1%
R2 422-1/8W 1%
L1 22UH
L2 22UH
L3 82UH
C17 .047UF
C18 .047UF
C26 15PF
C27 27PF
R5 1.5K 1/8W, 1%
R6 1.5K-1/8W 1%
R9 1.1W 1/8W, 1%
R8 10K-1/8W 1%
VCC
-12V P1-75
R23 360
CR1 1N751A
C1 .047UF
C2 1UF
Z8 74S74
Z17 74S74
Z3 74S74
Z19 74S163
Z9 74LS74
SHT 3 RX
DSYNC- SHT 3
CTCCLK SH 2
CLOCK- SH 2
Z21 NOT USED ON -001 BOARDS
Z18 74S163
C30 33 PF
R11 220
R14 22
R17 1.2K
C20 .047UF
Q2 2N3906
Z20 74S04
R26 47
SHT 3 CA
Z29 20MHZ
E7 -002
E8 -001 E9
Z4 74S112
C31 33PF
R12 220
R15 22-1/4W
R18 1.2K
C21 .047UF
Q3 2N3906
R27 47
SHT 3 CLK
SHT 3 TTLCLK
CIRCUITRY NOT USED ON -002 BOARDS
DWG NO 8000178
REV B
SCALE D
SHEET 4 OF 4