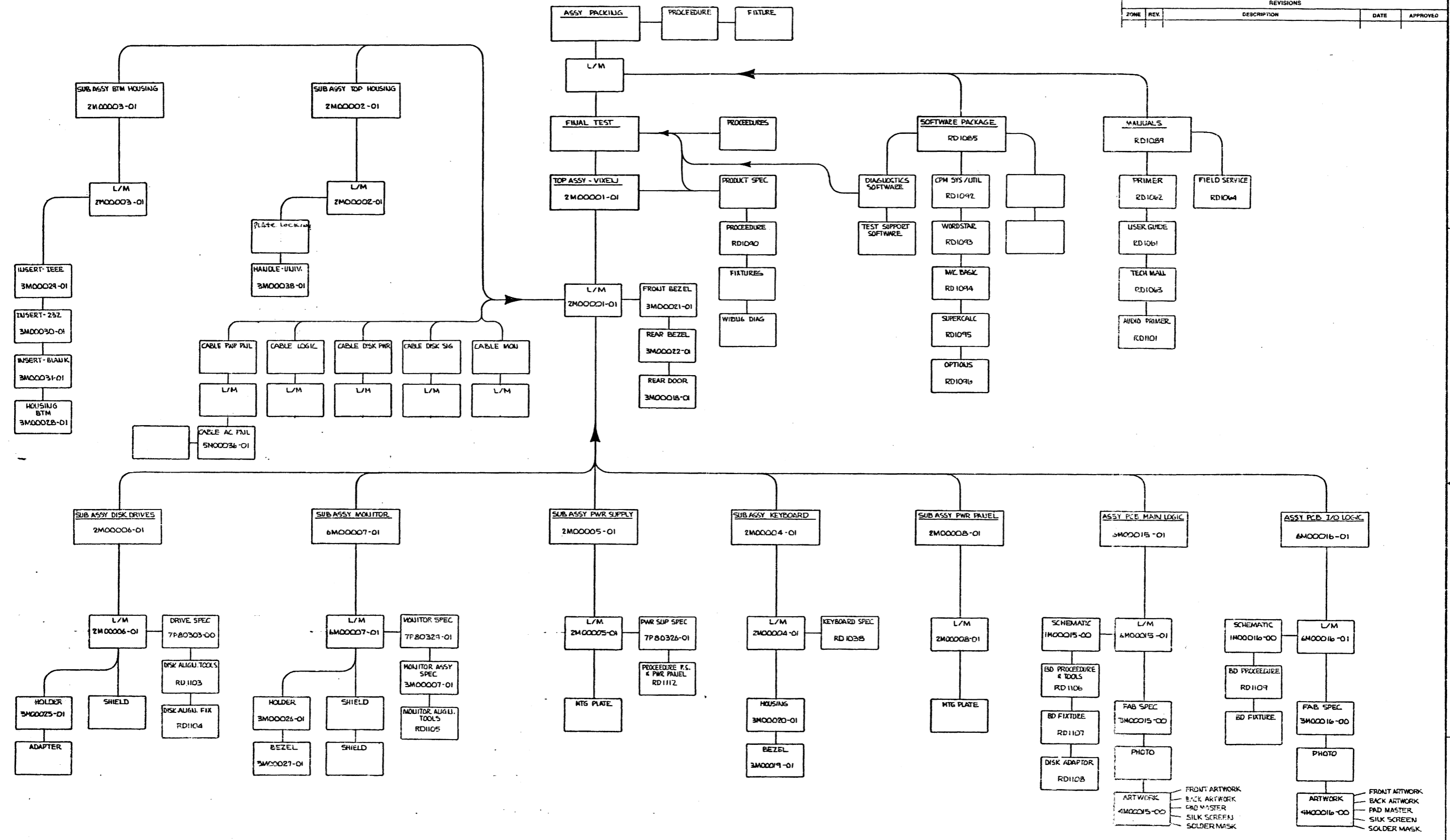


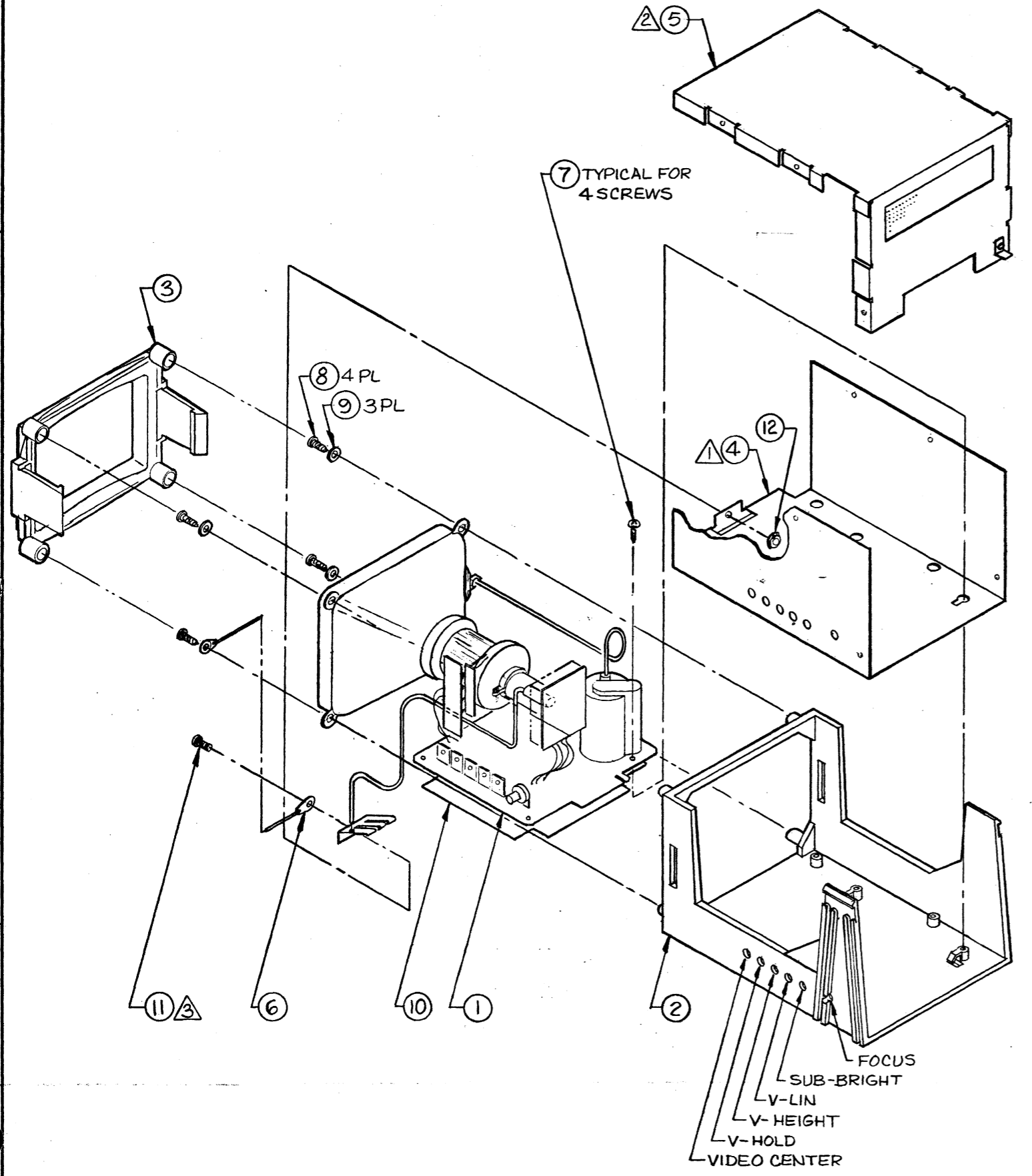
DWG. NO.		SH	REV.
REVISIONS			
ZONE	REV.	DESCRIPTION	DATE
			APPROVED

8 7 6 5 4 3 1



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES XX .XXX °		APPROVALS	DATE
MATERIAL	FINISH	DRAWN J.P. JAMES	3-25-83
NEXT ASSY	USED ON	ISSUED	SCALE
APPLICATION		DO NOT SCALE DRAWING	
		OSBORNE COMPUTER CORPORATION	
		26500 Corporate Avenue Hayward, California 94545 415-887-8080	
DOCUMENT TREE - VIXEN			
SHEET 1 OF 1		DWG. NO. REV. 00	

8 7 6 5 4 3 2 1



4. TORQUE SCREWS TO

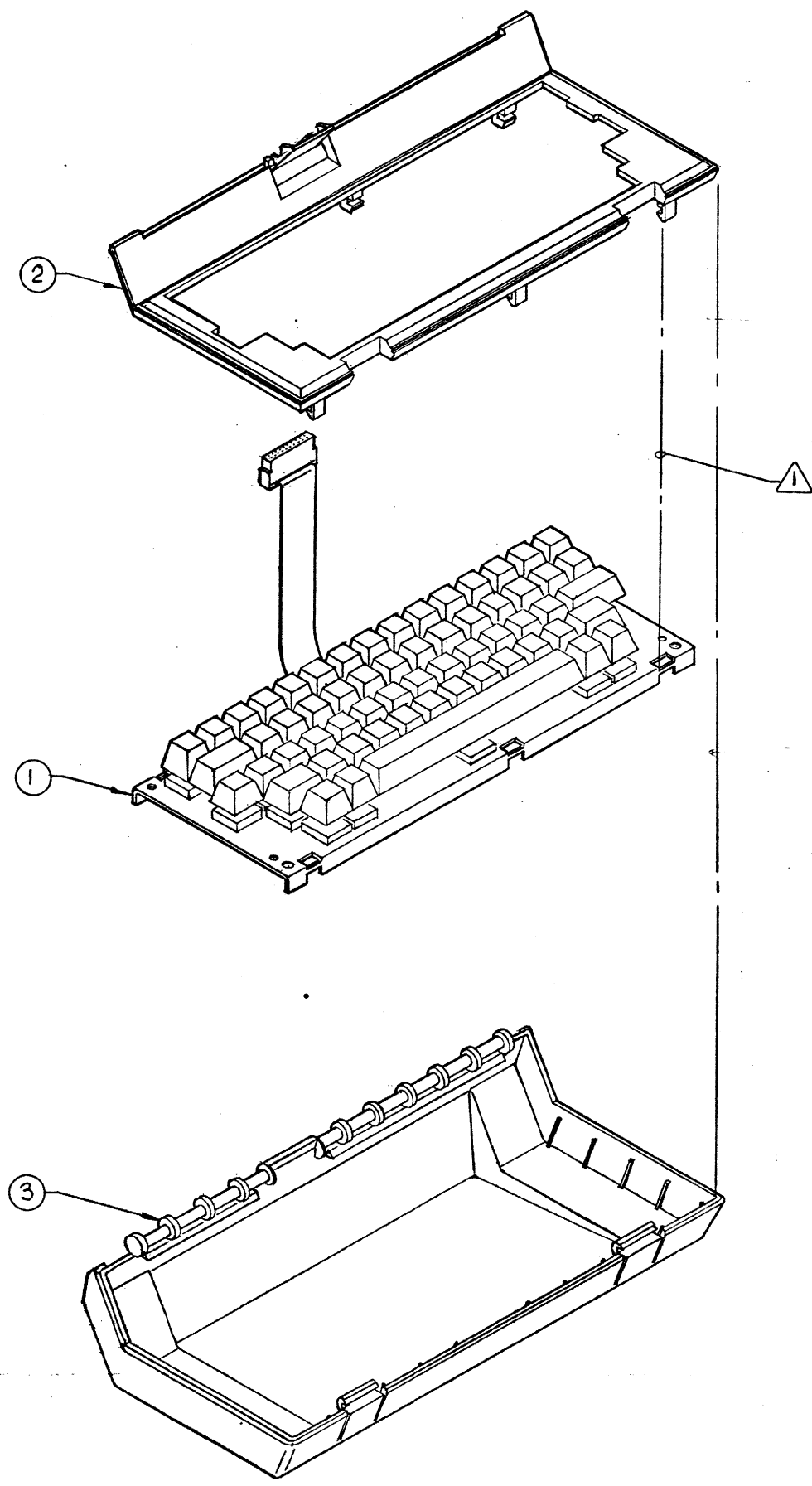
- ⚠️ SCREW GROUNDING SPRING & LUG TO BOTTOM SHIELD BEFORE INSTALLING SHIELD.
- ⚠️ ALIGN YOKE & MONITOR BEFORE INSTALLING TOP SHIELD.
- ⚠️ PRESS BOTTOM SHIELD INTO HOUSING UNTIL RETAINED BY 4 CATCHES.

NOTES, UNLESS OTHERWISE SPECIFIED:

SEE DETACHED LIST OF MATERIALS 6M00007-01

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .XX ± .XXX ± °		APPROVALS		DATE	OSBORNE 26500 Corporate Avenue Hayward, California 94545 415-887-8080 COMPUTER CORPORATION
MATERIAL		DRAWN <i>D. Smith</i>		3-20-83	
FINISH		CHECKED			MONITOR, KAGA, SUBASSEMBLY
NEXT ASSY		ISSUED			
USED ON		SCALE 1/2		DWG. NO. 6M00007	REV.
APPLICATION		DO NOT SCALE DRAWING		SHEET	

DWG. NO. 2M00004		SH	REV.	1
REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED



⚠ KEYBOARD IS RETAINED BY 6 CATCHES IN BEZEL.
 NOTES, UNLESS OTHERWISE SPECIFIED:

SEE DETACHED LIST OF MATERIAL 2M00004-01

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES = .XX = ° =		APPROVALS	DATE	OSBORNE COMPUTER CORPORATION 26500 Corporate Avenue Hayward, California 94545 415-887-8080
MATERIAL		DRAWN <i>JSmitts</i>	3-22-83	
FINISH		CHECKED		KEY BOARD SUBASSEMBLY
2M00001		ISSUED		
NEXT ASSY	USED ON			SIZE D DWG. NO. 2M00004 REV.
APPLICATION		DO NOT SCALE DRAWING		SCALE 1/2 SHEET

8

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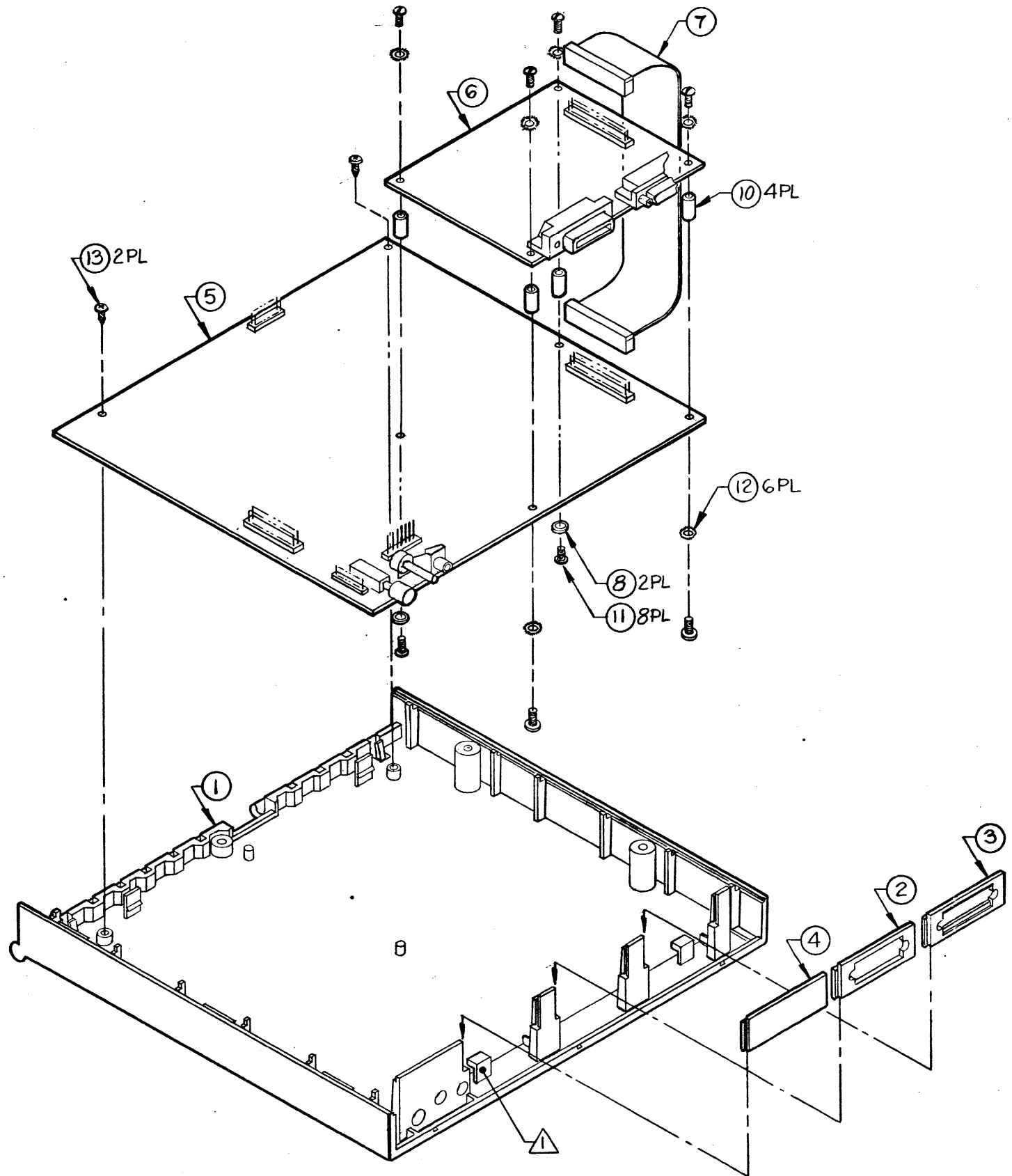
3

DWG. NO. 2M00003

SH REV.

1

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED



▲ BOARD IS RETAINED UNDER ANGLE, 2 PLACES.
 NOTES, UNLESS OTHERWISE SPECIFIED:

SEE DETACHED LIST OF MATERIALS 2M00003-01

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES = .XX = .XXX =		APPROVALS	DATE	OSBORNE COMPUTER CORPORATION 26500 Corporate Avenue Hayward, California 94545 415-887-6080
MATERIAL		DRAWN <i>DG Smith</i>	3/21/83	
FINISH		CHECKED		BOTTOM HOUSING SUBASSEMBLY
NEXT ASSY	USED ON	ISSUED		
APPLICATION		DO NOT SCALE DRAWING		DWG. NO. 2M00003 REV.
		SCALE 1/2		SHEET

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C

C

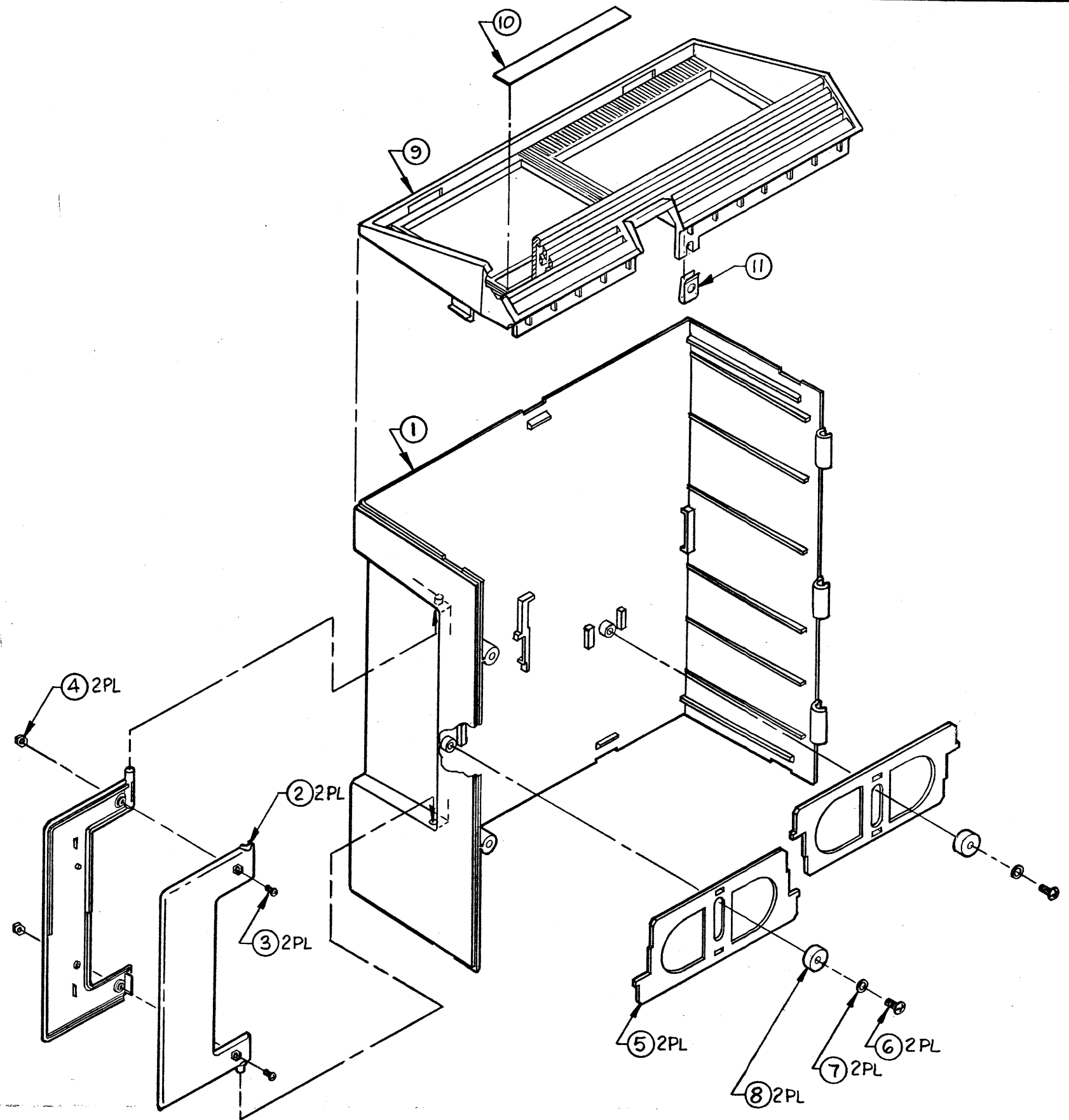
B

B

A

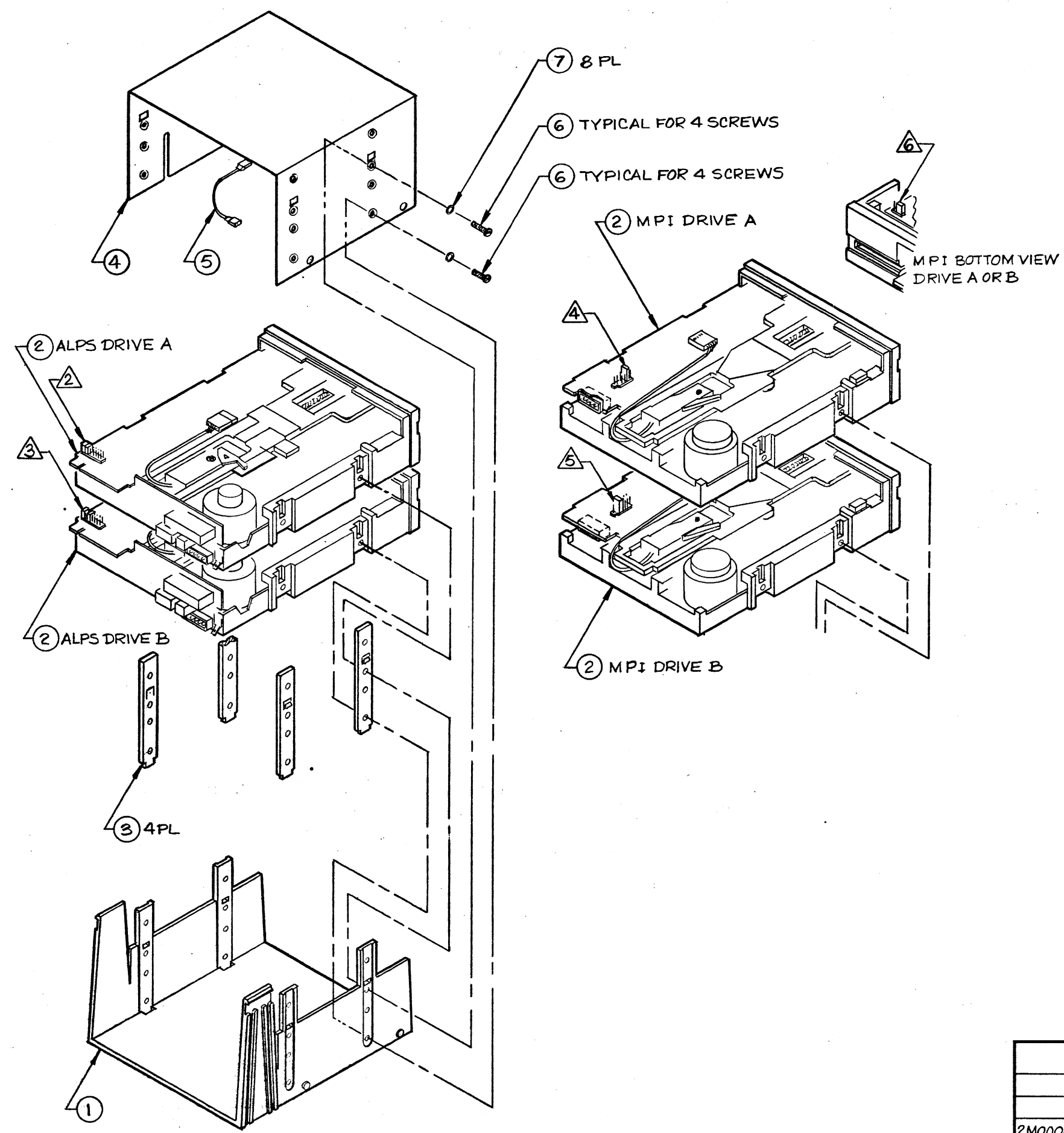
A

DWG. NO.		SH	REV.	1	
REVISIONS					
ZONE	REV.	DESCRIPTION		DATE	APPROVED



SEE DETACHED LIST OF MATERIALS 2M00002-01

		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES			
		FRACTIONS DECIMALS ANGLES = = = .XX .XXX ± °		APPROVALS DATE DRAWN <i>ASmith</i> 4-14-83 CHECKED ISSUED	
2M00001		MATERIAL		TOP HOUSING SUBASSEMBLY	
NEXT ASSY		FINISH		SIZE DWG. NO. REV. D 2M00002 1	
APPLICATION		DO NOT SCALE DRAWING		SCALE 1/2 SHEET	



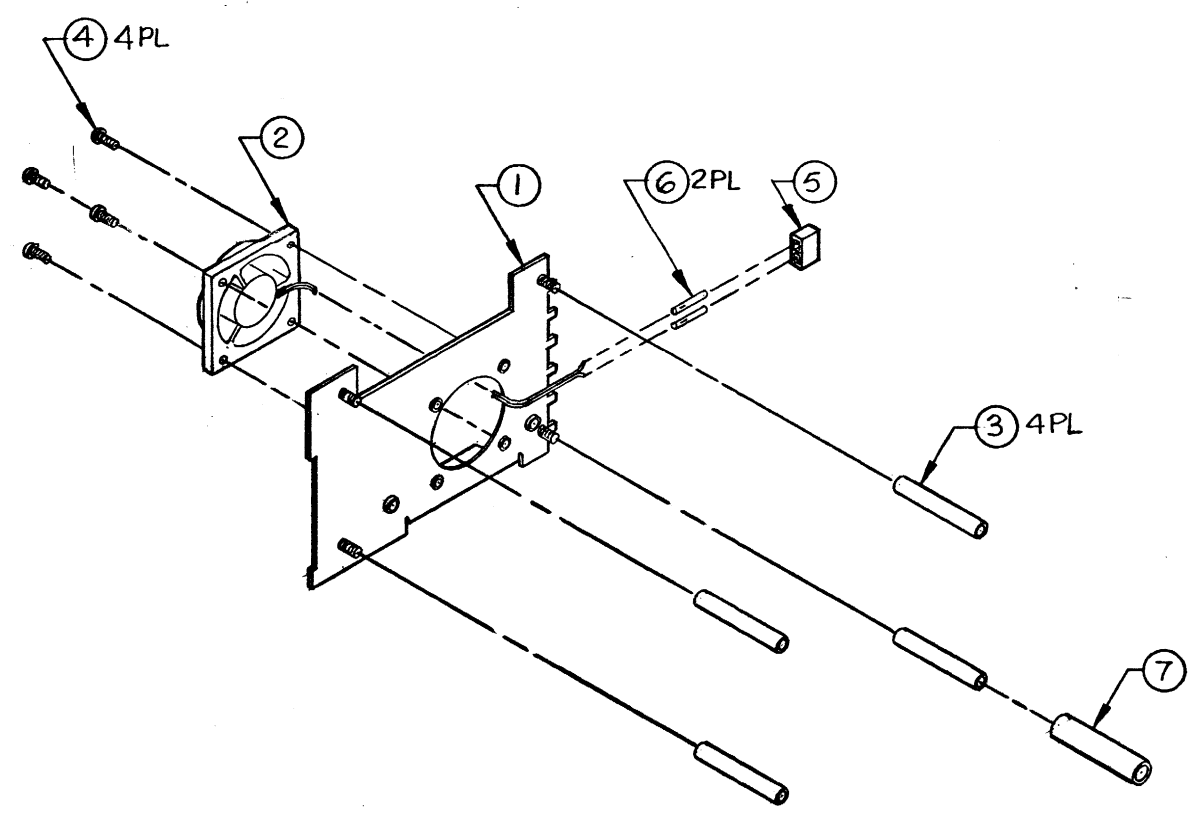
- ⚠ 6 JUMPER PINS E & F ON BOTH MPI DRIVES A & B.
 - ⚠ 5 JUMPER FOURTH SET OF PINS ON MPI DRIVE B.
 - ⚠ 4 JUMPER SECOND SET OF PINS ON MPI DRIVE A.
 - ⚠ 3 JUMPER FIRST & THIRD SET OF PINS ON ALPS DRIVE B.
 - ⚠ 2 JUMPER FIRST & SECOND SET OF PINS ON ALPS DRIVE A.
- 1 TORQUE SCREWS TO 6 IN/LB.

NOTES, UNLESS OTHERWISE SPECIFIED:

SEE DETACHED LIST OF MATERIALS 2M0006-1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES = .XX = .XXX = °		APPROVALS		DATE	OSBORNE COMPUTER CORPORATION 26500 Corporate Avenue Hayward, California 94545 415-887-8080
MATERIAL		DRAWN <i>J. Smith</i>		4-13-88	
FINISH		CHECKED			DISK DRIVE SUBASSEMBLY
NEXT ASSY		ISSUED			
USED ON		APPLICATION		DO NOT SCALE DRAWING	DWG. NO. 2M00006
					SIZE D SCALE 1/2 SHEET

DWG. NO.		SH	REV.	1
REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED



SEE DETACHED LIST OF MATERIALS

		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES = .XX = = .XXX =		APPROVALS		DATE		OSBORNE COMPUTER CORPORATION 26500 Corporate Avenue Hayward, California 94545 415-887-8080	
		MATERIAL		DRAWN <i>DSmith</i>		4.15.83			
2M00005		FINISH		CHECKED				POWER SUPPLY MOUNTING PLATE SUBASSEMBLY	
NEXT ASSY		USED ON		ISSUED					
APPLICATION		DO NOT SCALE DRAWING				SCALE 1/2		DWG. NO. _____ REV. _____ SHEET _____	

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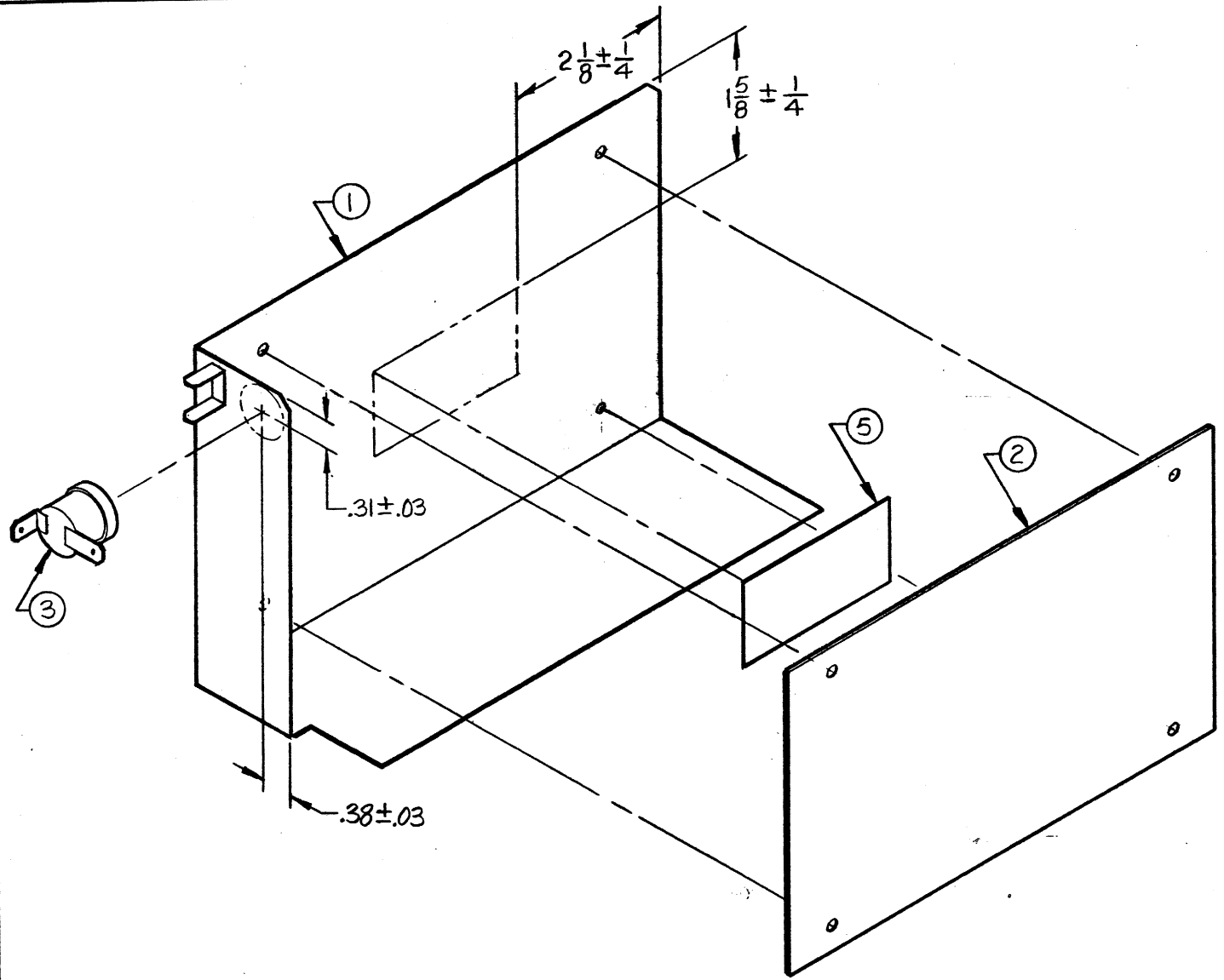
5

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DWG. NO.		SH	REV.	1	
REVISIONS					
ZONE	REV.	DESCRIPTION		DATE	APPROVED



D

C

B

A

SEE DETACHED LIST OF MATERIALS

		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES = .XX ± = = .XXX ± =		APPROVALS		DATE		OSBORNE COMPUTER CORPORATION 26500 Corporate Avenue Hayward, California 94545 415-887-8080	
		MATERIAL		DRAWN <i>RSmith</i>		4.14.83		POWER SUPPLY SHIELD SUB ASSEMBLY	
		FINISH		CHECKED					
NEXT ASSY		USED ON		ISSUED				SIZE D	
APPLICATION		DO NOT SCALE DRAWING		SCALE 1/1		DWG. NO.		REV.	

8

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6

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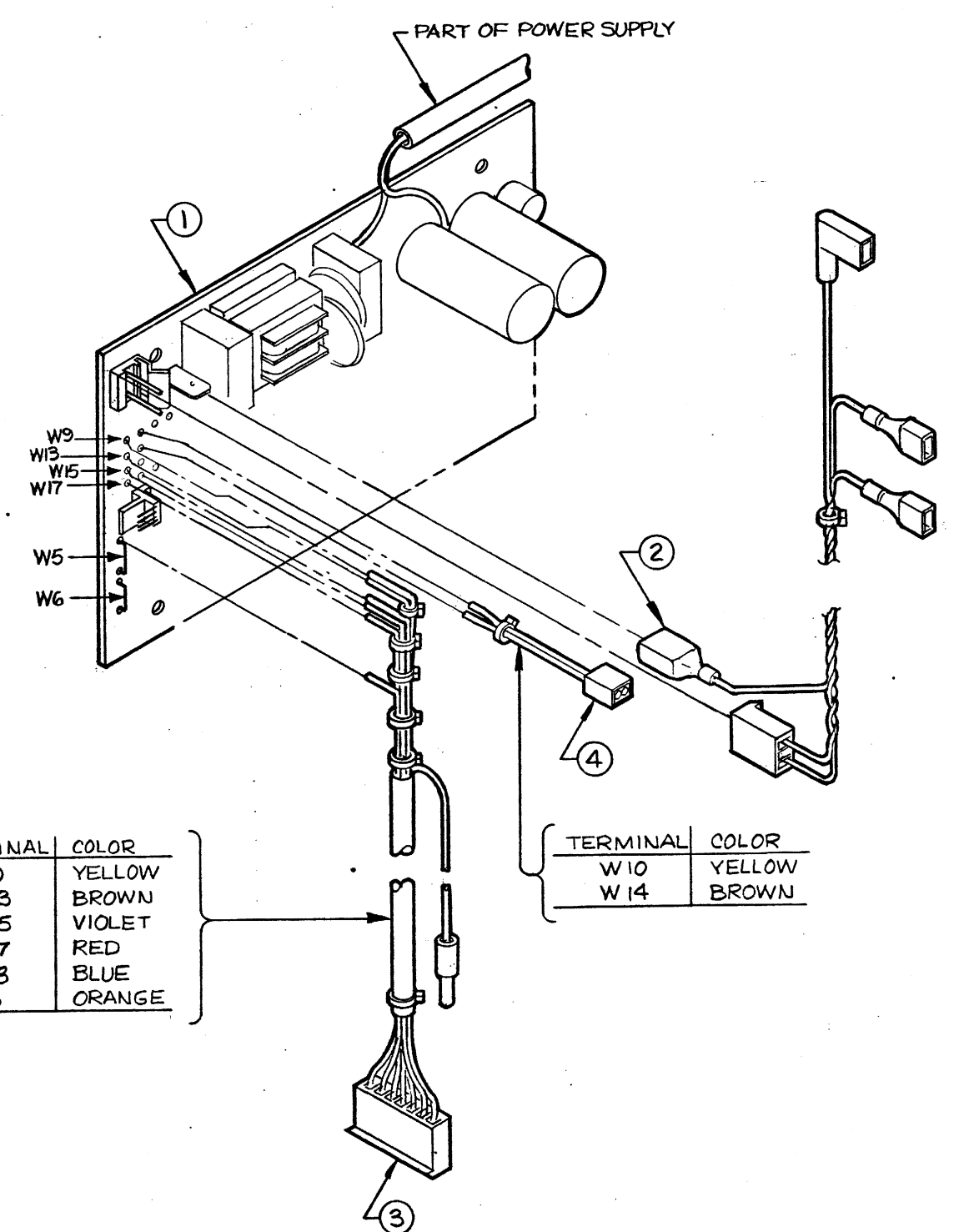
4

3

2

1

DWG. NO.	SH	REV.	1
REVISIONS			
ZONE	REV.	DESCRIPTION	DATE
			APPROVED



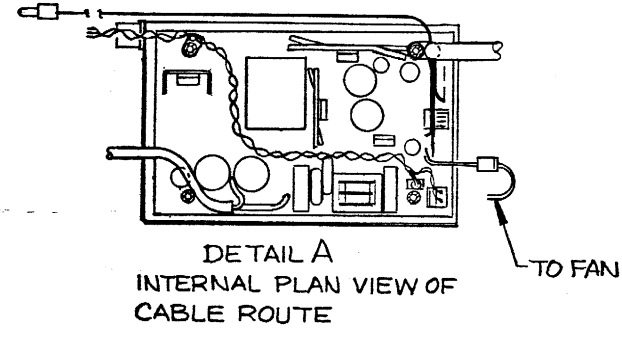
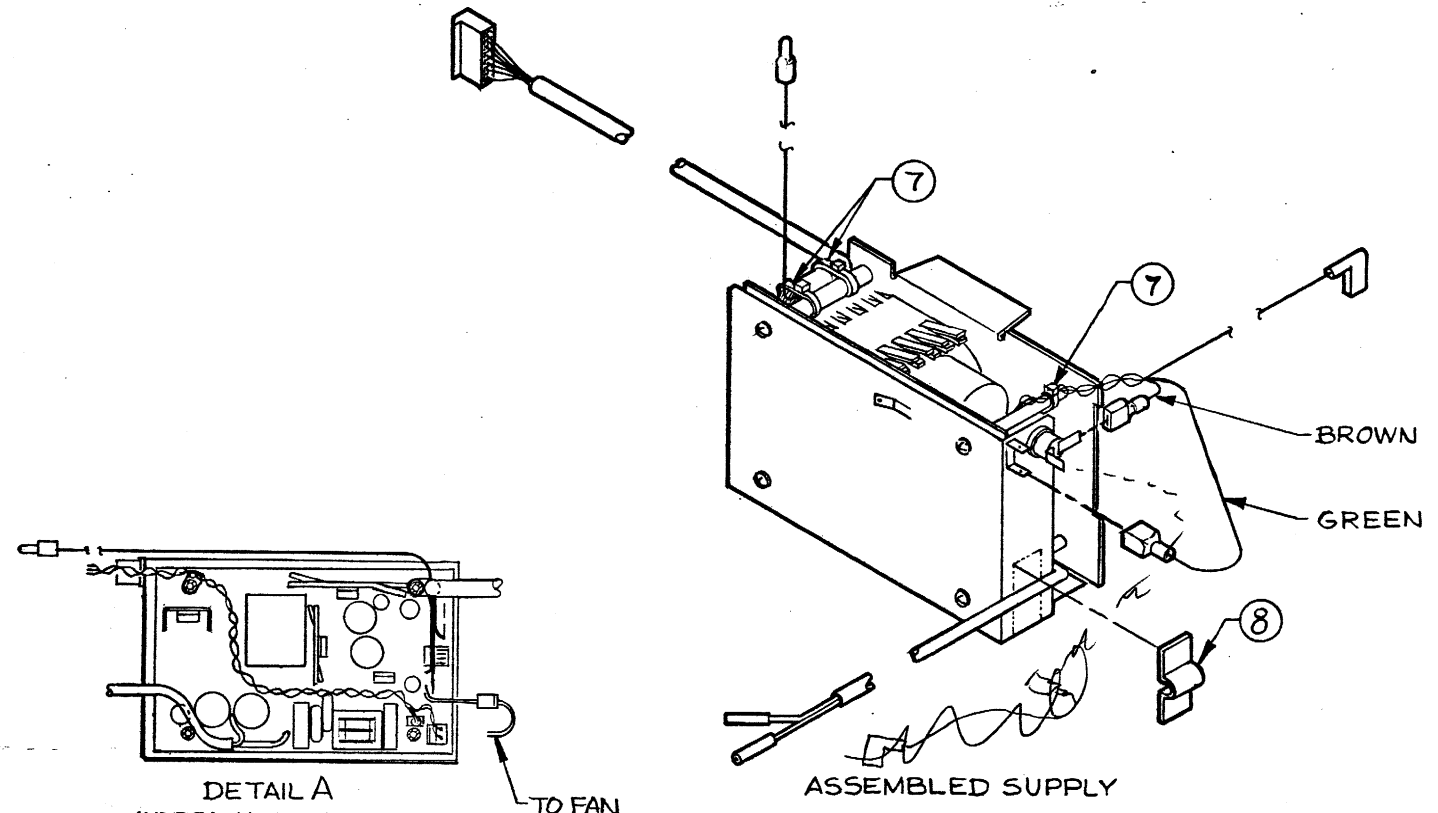
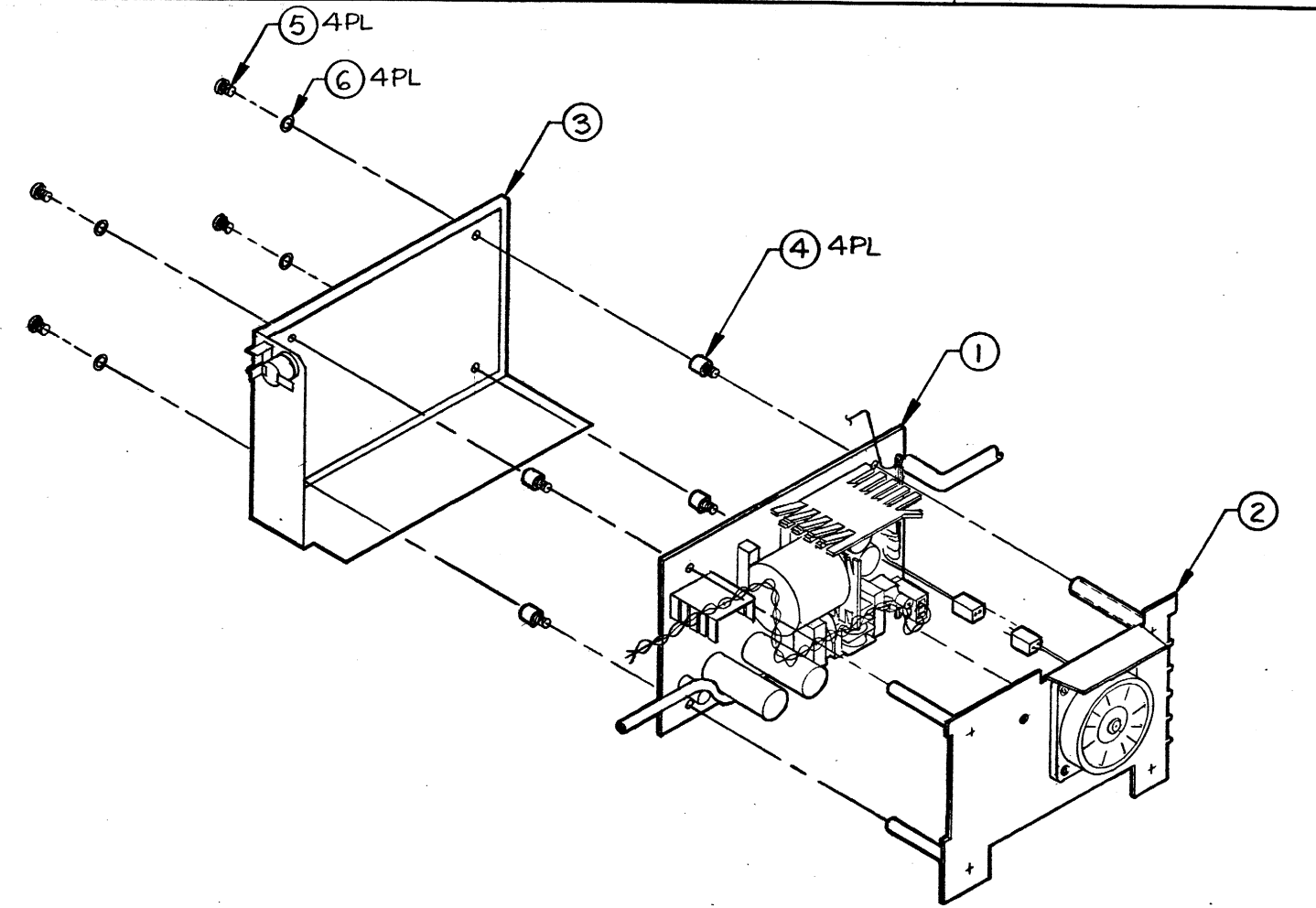
TERMINAL	COLOR
W9	YELLOW
W13	BROWN
W15	VIOLET
W17	RED
W18	BLUE
W5	ORANGE

TERMINAL	COLOR
W10	YELLOW
W14	BROWN

SEE DETACHED LIST OF MATERIALS

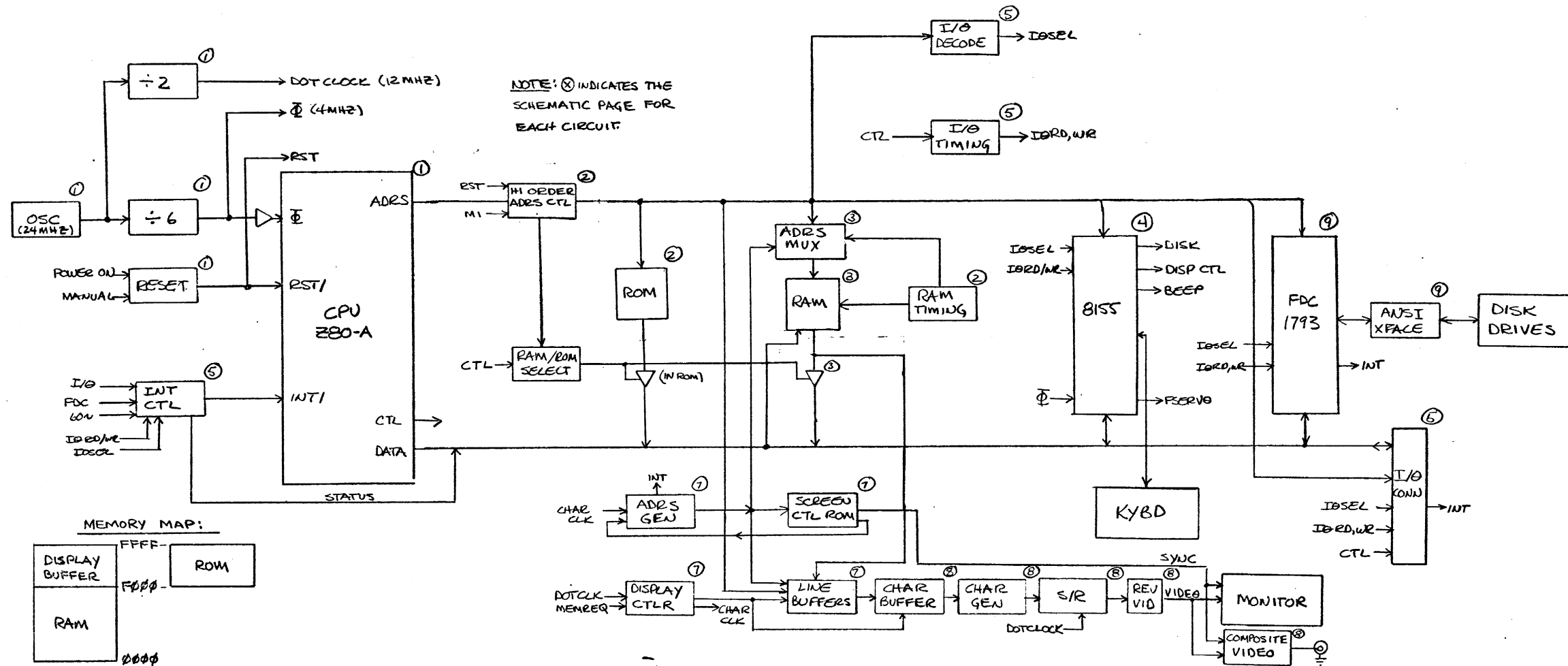
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES = .XX = = .XXX = =		APPROVALS		DATE	OSBORNE COMPUTER CORPORATION 25500 Corporate Avenue Hayward, California 94545 415-887-8080
MATERIAL		DRAWN <i>ASmith</i>		4.15.83	
FINISH		CHECKED			POWER SUPPLY WIRING SUBASSEMBLY
NEXT ASSY		USED ON			
APPLICATION		DO NOT SCALE DRAWING			DWG. NO. SCALE 1/1 SHEET

DWG. NO.		SH	REV.	1	
REVISIONS					
ZONE	REV.	DESCRIPTION		DATE	APPROVED



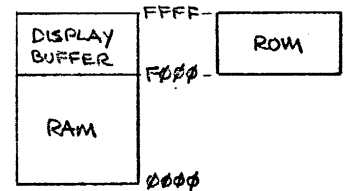
SEE DETACHED LIST OF MATERIAL 2M00005-01

		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES = .XX = .XXX =		APPROVALS	DATE	 26500 Corporate Avenue Hayward, California 94545 415-887-8080
2M00001		MATERIAL		<i>D. Smith</i>	4.17.83	
NEXT ASSY		USED ON	FINISH	CHECKED		SIZE D
APPLICATION		DO NOT SCALE DRAWING		ISSUED		DWG. NO. 2M00005
				SCALE 1/2		REV.



NOTE: ⑤ INDICATES THE SCHEMATIC PAGE FOR EACH CIRCUIT

MEMORY MAP:



	READ	WRITE	EXECUTE
ROM	FROM ROM	NO	YES
RAM	YES	YES	YES
DISP	FROM RAM	YES	NO

RESET FORCES EXECUTION OF INSTRUCTION IN F000 (ROM)

PROPRIETARY
OSBORNE
COMPUTER CORPORATION

DES:	FPC 11/82
DWG:	FPC 11/82
CHK:	
CHK:	
VIXEN BLOCK DIAGRAM	
	REV 1 Ø

OSBORNE COMPUTER CORP.				TITLE: VIXEN MAINLOGIC		ILM# 6M00015-01	
DRAWN: ACA				DATE 03/13/83		Revision 2.1	
CHECKED: _____				APPRVD: _____		IECO#: _____	
DATE: _____				DATE: _____		RELEASED: _____	
DETACHED LIST OF MATERIALS							
ITEM	PART NO.	QTY	UM	TITLE			REFERENCE DESIGNATORS
001		01	EA	PC CARD			
002	7P11000-00	01	EA	74LS00N LSTTL QUAD NAND GATE			A4
003	7P11002-00	02	EA	74LS02N LSTTL QUAD NOR GATE			C7, E10
004	7P11003-00	01	EA	74LS03N LSTTL QUAD OC NAND GATE			A6
005	7P11004-00	03	EA	74LS04N LSTTL HEX INV			A2, F12, H14
006	7P11008-00	01	EA	74LS08N LSTTL QUAD AND GATE			B8
007	7P11014-00	01	EA	74LS14N LSTTL HEX ST			H15
008	7P11020-00	01	EA	74LS20N LSTTL DUAL 4 IN NAND			B6
009	7P11032-00	04	EA	74LS32N LSTTL QUAD OR GATE			B7, B9, C8, D10
010	7P11074-00	06	EA	74LS74N LSTTL DUAL JK F/F			A3, A5, A7, A8, B11, C6
011	7P11086-00	01	EA	74LS86N LSTTL QUAD XOR GATE			E11
012							
013							
014	7P11138-00	01	EA	74LS138 LSTTL 3 TO 8 LINE DECODER			D7
015	7P11153-00	04	EA	74LS153N LSTTL DCDR/DEMUL			E1-4
016	7P11157-00	01	EA	74LS157 LSTTL QUAD SEL/MULT			B10
017	7P11162-00	01	EA	74LS162A LD PWR BCD CNTR			G9
018	7P11163-00	04	EA	74LS163 LSTTL SYNC CNTR			D8, F8, F9, G11
019	7P11166-00	02	EA	74LS166 LSTTL SHIFT REGISTER			G8, G12

LM CONTINUED

OSBORNE COMPUTER CORP.				TITLE: VIXEN MAINLOGIC		ILM# 6M00015-01	
Drawn: ACA				DATE 03/13/83		Revision 2.1	
Checked				Appvd:		Date:	
DETACHED LIST OF MATERIALS				ECO#:		Released:	
ITEM	PART NO.	QTY	UM	TITLE		REFERENCE DESIGNATORS	
020	7P11174-00	01	EA	74LS174 LO PWR HEX REGISTER		A9	
021	7P11244-00	03	EA	74LS244 LSTTL TRI ST OCT BUF		D4, F7, G5	
022	7P11273-00	01	EA	74LS273 LSTTL OCT D F/F		F6	
023	7P11374-00	02	EA	74LS374 LO PWR OCT REGISTER		E7, F5	
024							
025							
026	7P11837-00	01	EA	74S00 STTL QUAD NAND GATE		D6	
027	7P11897-00	03	EA	74S04 STTL HEX INV		B3, C10, E8	
028	7P11839-00	01	EA	74S32 FAST QUAD OR GATE		D3	
029	7P11838-00	02	EA	74S74 FAST DUAL D F/F		D2, D11	
030	7P11840-00	01	EA	74S175 FAST QUAD REGISTER		B4	
031							
032							
033	7P11899-00	02	EA	7406 TTL HEX INV		A11, B5	
034	7P11900-00	02	EA	7407 TTL HEX OC		H1, H8	
035	7P11800-00	02	EA	7438 TTL QUAD NAND BUFFER		H13, H16	
036	7P11813-00	01	EA	Z80A CPU MICROPROCESSOR		C4	
037	7P11811-00	01	EA	1793 FLOPPY DISK CONT/XMTR		H12	
038	7P11829-00	02	EA	2114 1KX4 STATIC RAM 200NS		E5, E6	

OSBORNE COMPUTER CORP.					TITLE: VIXEN MAINLOGIC		ILM# 6M00015
Drawn: ACA			Checked	Appvd:	ECO#:	Date:	Revision 2.1 Released:
DETACHED LIST OF MATERIALS							
ITEM	PART NO.	QTY	UM	TITLE			REFERENCE DESIGNATORS
039	7P11841-00	08	EA	4164 64KX1 DYNAMIC RAM 200NS			F1-4, G1-4
040	7P18155-00	01	EA	8155 PORT RAM CNTR			H7
041	7P11816-00	03	EA	2732 (SEE ASSY DETAIL FOR PROGRAM)			F11, G7, H3
042							
043							
044		01	EA	CRYSTAL 23.96160 HC18 CASE			Y1
045	7P46109-00	01	EA	CAP, 470PF, 25V, 10%, CER. AXIAL			C5
046	7P46107-00	29	EA	CAP, .01UF, 10V, 30%, CER. AXIAL			C8-27, C36-44
047	7P46108-00	08	EA	CAP, .1UF, 10V, 50%, CER. AXIAL			C28-35
048		01	EA	CAP, 10UF, 10V, LO PFL, ALUM			C7
049	7P45606-00	02	EA	CAP, 47UF, 10V, LO PFL, ALUM			C1, C2
050		02	EA	CAP, 68UF, 10V, LO PFL, ALUM			C3, C4
051		02	EA	DIODE, 1N270, GERMANIUM			CR2, CR3
052		01	EA	DIODE, 1N4001, ZENER			CR1
053							
054							
055	7P52100-00	01	EA	RES, 10 OHM, 1/4W, 5%, CARBON FILM			R2
056	7P52220-00	01	EA	RES, 22 OHM, 1/4W, 5%, CARBON FILM			R10
057	7P52330-00	03	EA	RES, 33 OHM, 1/4W, 5%, CARBON FILM			R18, 19, 20

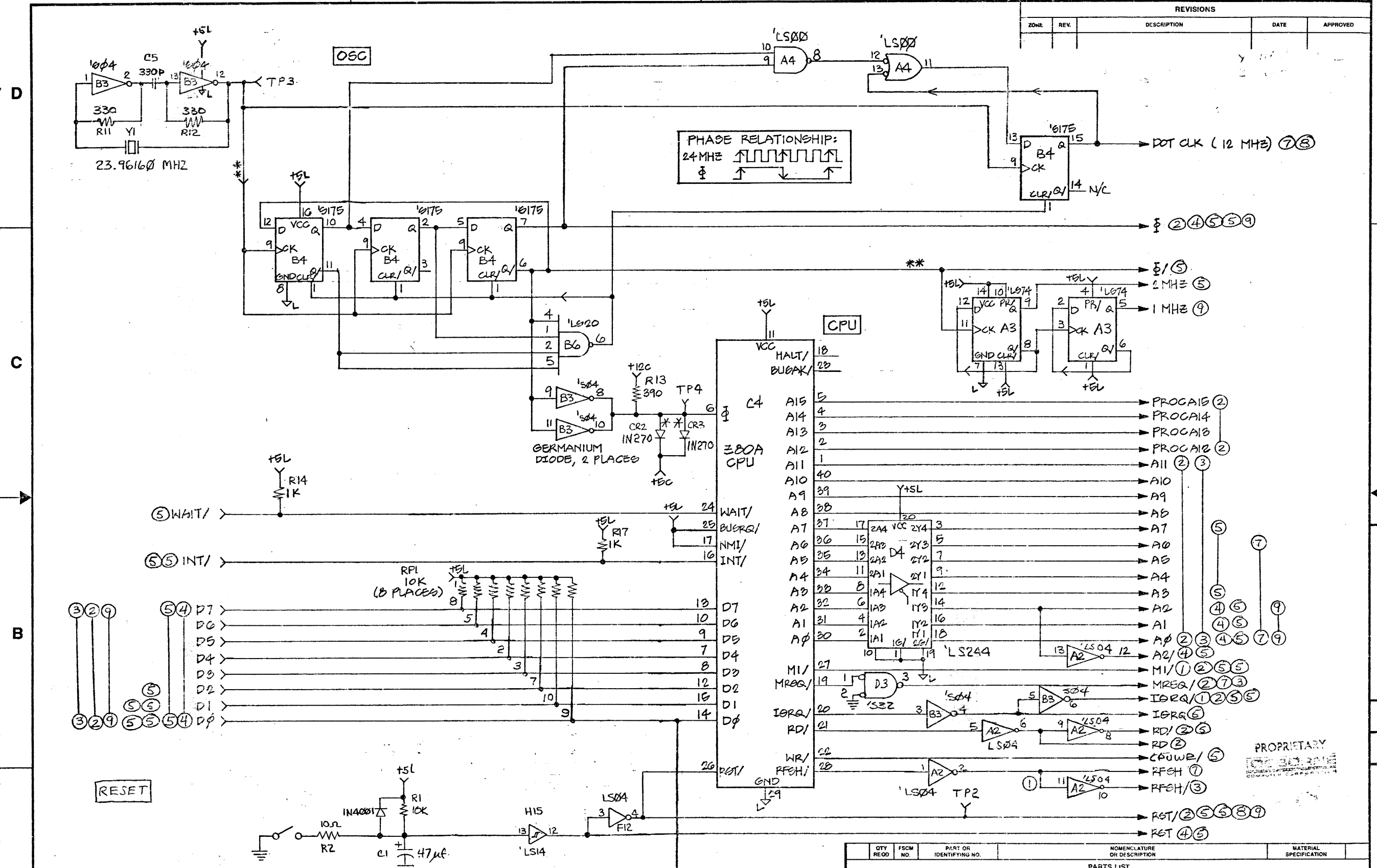
LM CONTINUED

OSBORNE COMPUTER CORP.				TITLE: VIXEN MAINLOGIC		ILM# 6M00015
Drawn: ACA			Checked	Appvd:	ECO#:	Date:
DETACHED LIST OF MATERIALS				Revision 2.1		Released:
ITEM	PART NO.	QTY	UM	TITLE		REFERENCE DESIGNATORS
058	7P52470-00	01	EA	RES, 47 OHM, 1/4W, 5%, CARBON FILM		R9
059	7P52151-00	02	EA	RES, 150 OHM, 1/4W, 5%, CARBON FILM		R26, 27
060	7P52221-00	01	EA	RES, 220 OHM, 1/4W, 5%, CARBON FILM		R8
061	7P52331-00	02	EA	RES, 330 OHM, 1/4W, 5%, CARBON FILM		R11, 12
062	7P52391-00	01	EA	RES, 390 OHM, 1/4W, 5%, CARBON FILM		R13
063	7P52471-00	02	EA	RES, 470 OHM, 1/4W, 5%, CARBON FILM		R3, 6
064	7P52511-00	01	EA	RES, 510 OHM, 1/4W, 5%, CARBON FILM		R4
065	7P52102-00	06	EA	RES, 1K OHM, 1/4W, 5%, CARBON FILM		R5, 14, 17, 23, 24, 25
066	7P52103-00	05	EA	RES, 10K OHM, 1/4W, 5%, CARBON FILM		R1, 15, 16, 21, 22
067						
068						
069	7P51007-00	02	EA	RES NET, 10K OHM, 1/8W, 10%, SIP, 10 PIN		RN1, 2
070		01	EA	POT, 100K, SINGLE TURN, PC MNT		R27
071	7P61106-01	01	EA	SWITCH, DPDT, MOMENTARY ACTION		S1
072	7P40026-00	01	EA	AUDIO ALARM, PEIZO, CER		A1
073	7P64410-00	01	EA	HEADER, 10 PIN, SINGLE-IN-LINE		P2
074	7P63622-00	01	EA	HEADER, 20 PIN, DUAL-IN-LINE		P1
075	7P63624-00	01	EA	HEADER, 34 PIN, DUAL-IN-LINE		P4
076		01	EA	HEADER, 40 PIN, DUAL-IN-LINE		P3

LM CONTINUED

ENGRG. ONLY
OSBORNE PROPRIETARY
FOR QUOTE ONLY SUBJECT TO CHANGE

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED

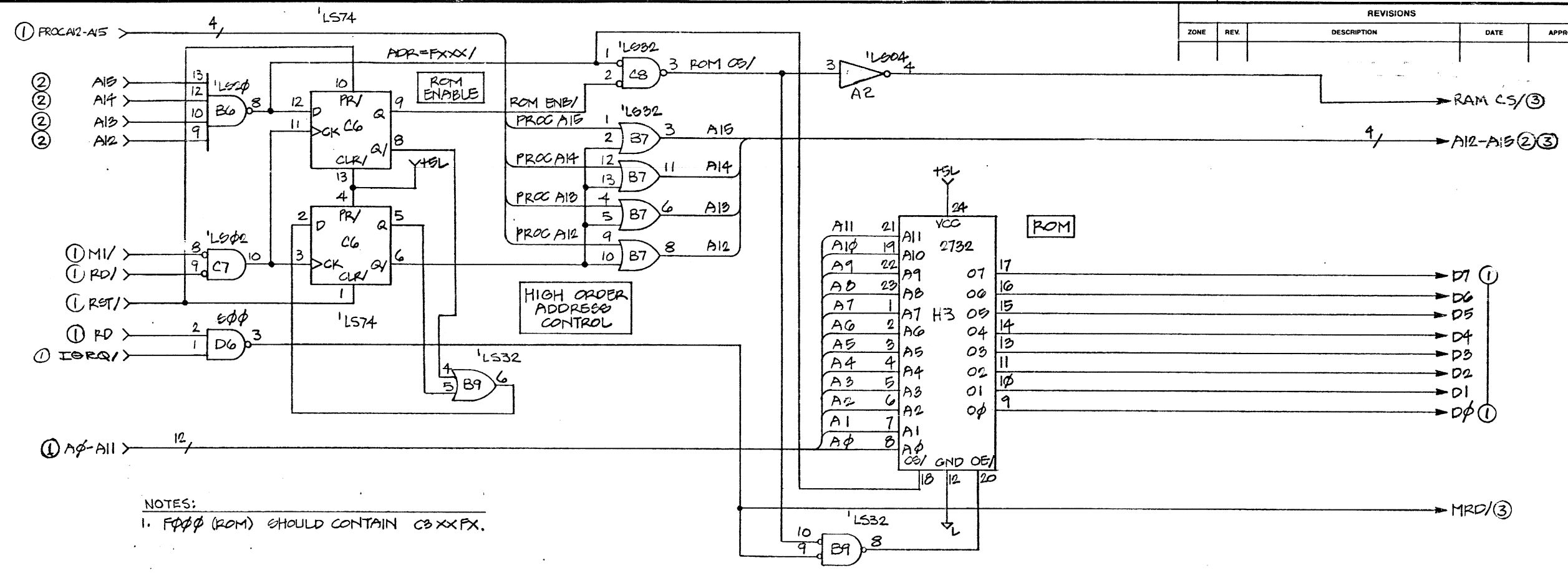


- NOTES:**
1. ALL RESISTANCE VALUES IN OHMS.
 2. ALL RESISTORS 1/4 WATT.
 3. ALL CAPACITANCE VALUES IN FARADS.
 4. ALL INDUCTANCE VALUES IN HENRIES.
 5. (X) TO OR FROM SHEET X.
 6. ** CRITICAL SIGNALS - KEEP AS SHORT AS POSSIBLE.

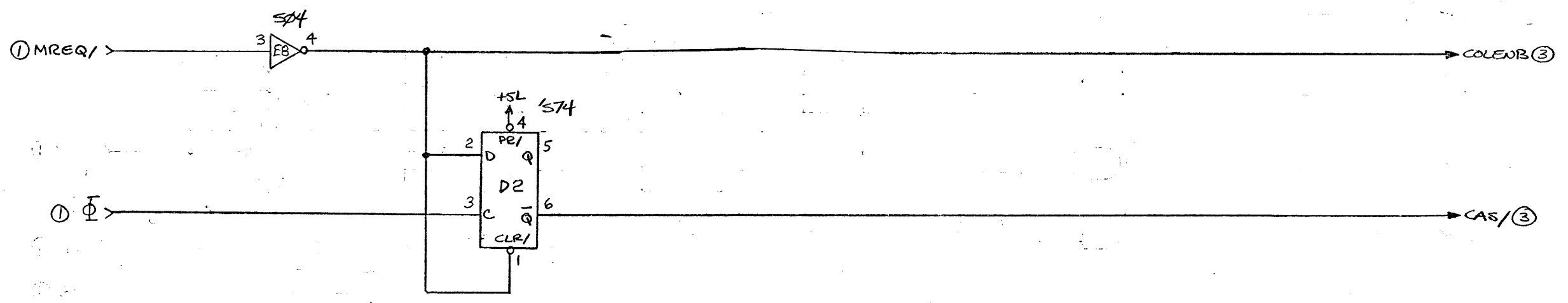
QTY	FSCM	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	MATERIAL SPECIFICATION
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:		CONTRACT NO.		
FRACTIONS	DECIMALS	ANGLES	APPROVALS	
.XX	.XXX	=	DATE	
MATERIAL		DRAWN		OSB04
FINISH		CHECKED		CLOCKS
NEXT ASSY		ISSUED		CPU
USED ON		SCALE		SIZE FSCM NO.
APPLICATION		DO NOT SCALE DRAWING		DWG. NO. 1M00015
				REV. 2
				SHEET 1 OF 9

OSBORNE
 COMPUTER CORPORATION
 26500 Corporate Avenue
 Hayward, California 94545
 415-887-8080

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED

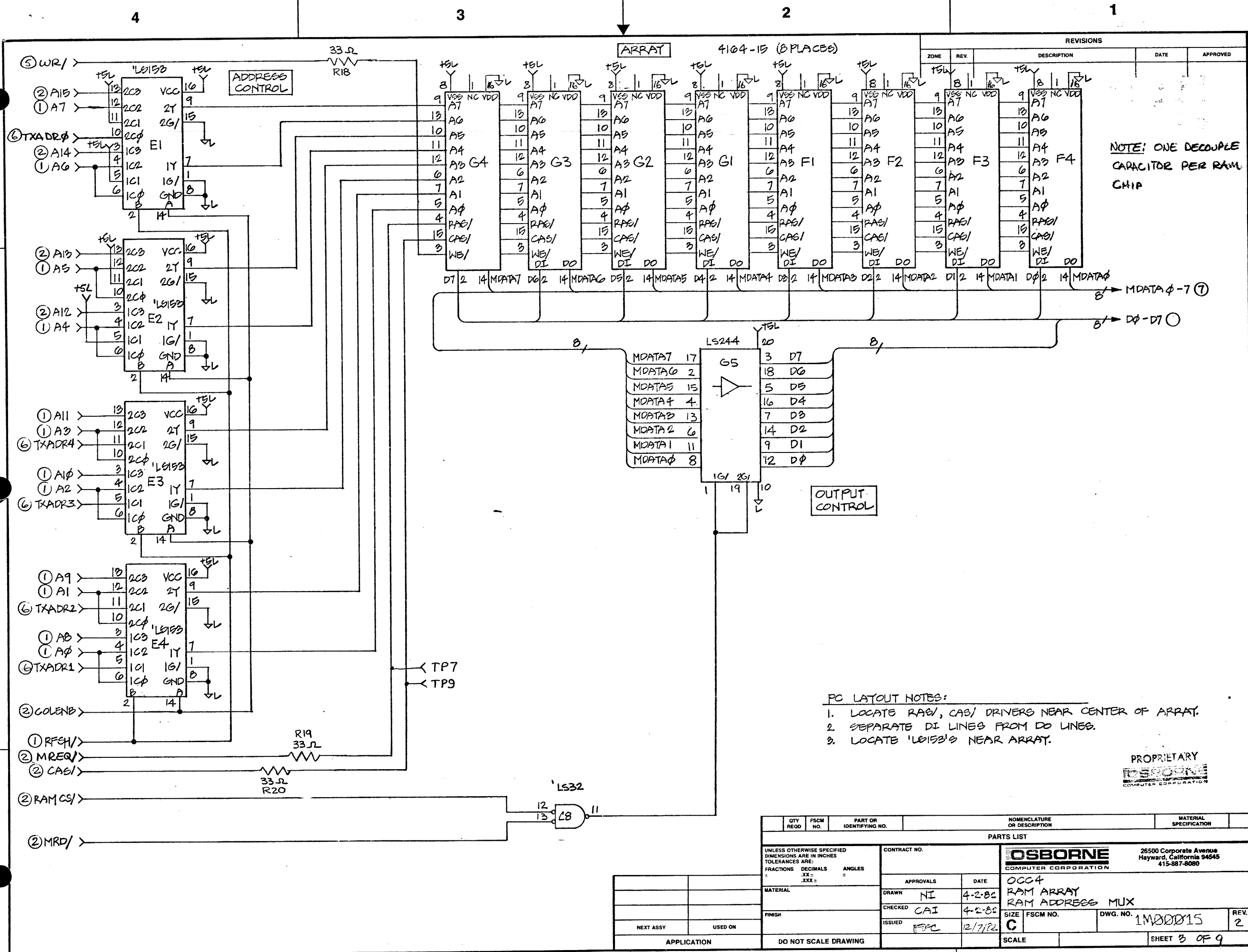


NOTES:
 1. FFFF (ROM) SHOULD CONTAIN CB XX FX.



PROPRIETARY
OSBORNE
 COMPUTER CORPORATION

QTY RECD	FSCM NO.	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	MATERIAL SPECIFICATION
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES .XX = .XXX =		CONTRACT NO.		OSBORNE 26500 Corporate Avenue Hayward, California 94545 415-887-8080
MATERIAL		APPROVALS	DATE	
FINISH		DRAWN	DATE	OCC4 ROM RAM TIMING
NEXT ASSY		CHECKED	DATE	
USED ON		ISSUED	DATE	SIZE FSCM NO. DWG. NO. REV. C 1M00015 2
APPLICATION		DO NOT SCALE DRAWING		SCALE SHEET 2 OF 9



REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED

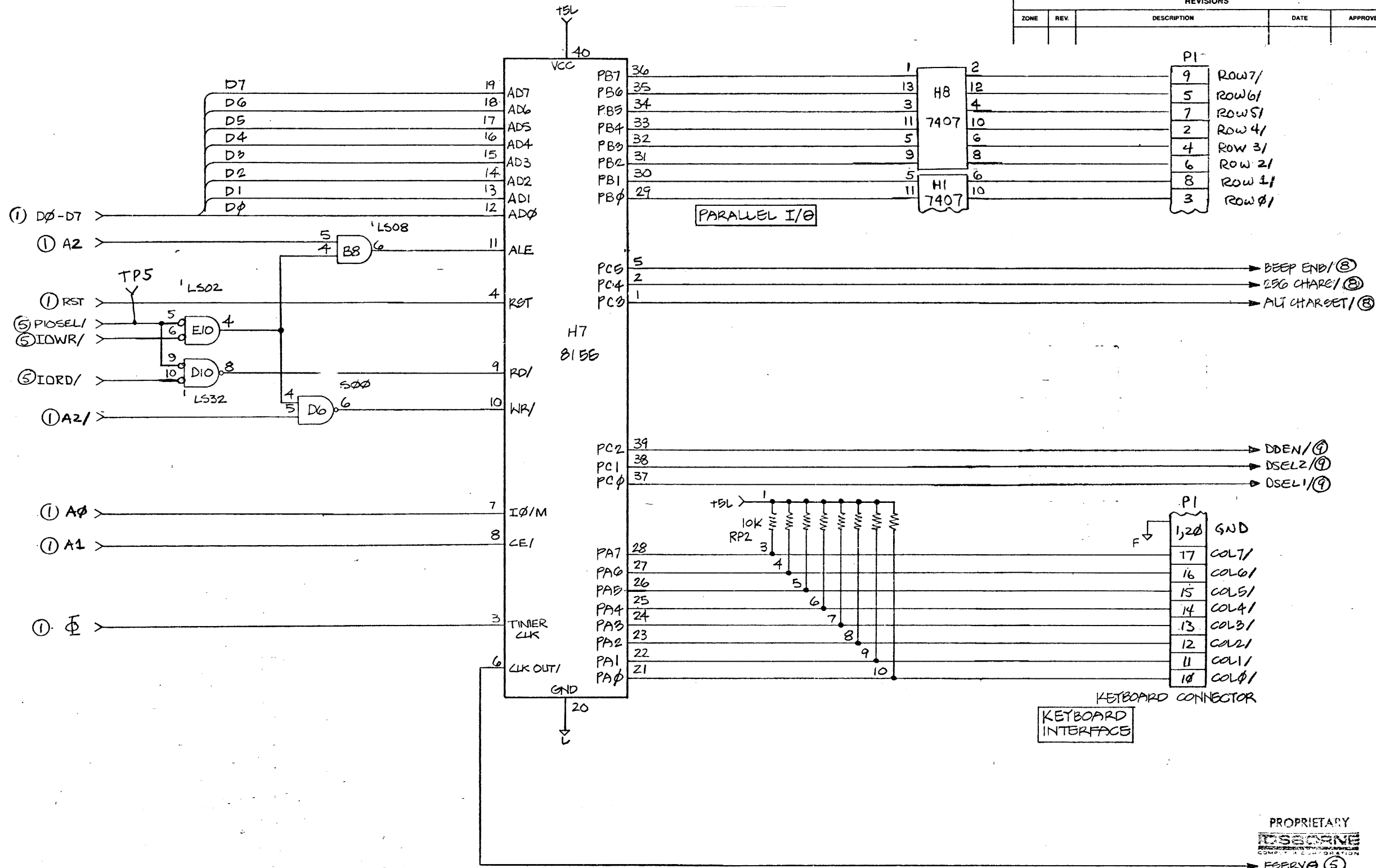
NOTE: ONE DECOUPLE CAPACITOR PER RAM CHIP

- PC LAYOUT NOTES:
1. LOCATE RAM, CAS/ DRIVERS NEAR CENTER OF ARRAY.
 2. SEPARATE DI LINES FROM DO LINES.
 3. LOCATE 'L6153'S NEAR ARRAY.

PROPRIETARY
OSBORNE
COMPUTER CORPORATION

QTY REQD	FSCM NO.	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	MATERIAL SPECIFICATION
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES XX- ° .XXX- "		CONTRACT NO.		OSBORNE COMPUTER CORPORATION 26500 Corporate Avenue Hayward, California 94545 415-887-8080
MATERIAL		APPROVALS	DATE	
FINISH		CHECKED	DATE	OCC4 RAM ARRAY RAM ADDRESS MUX
NEXT ASSY		ISSUED	DATE	SIZE FSCM NO. DWG. NO. 1M00015 REV. 2
APPLICATION		DO NOT SCALE DRAWING		SCALE SHEET 3 OF 9

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED



D

C

DWG. NO.

SH

REV.

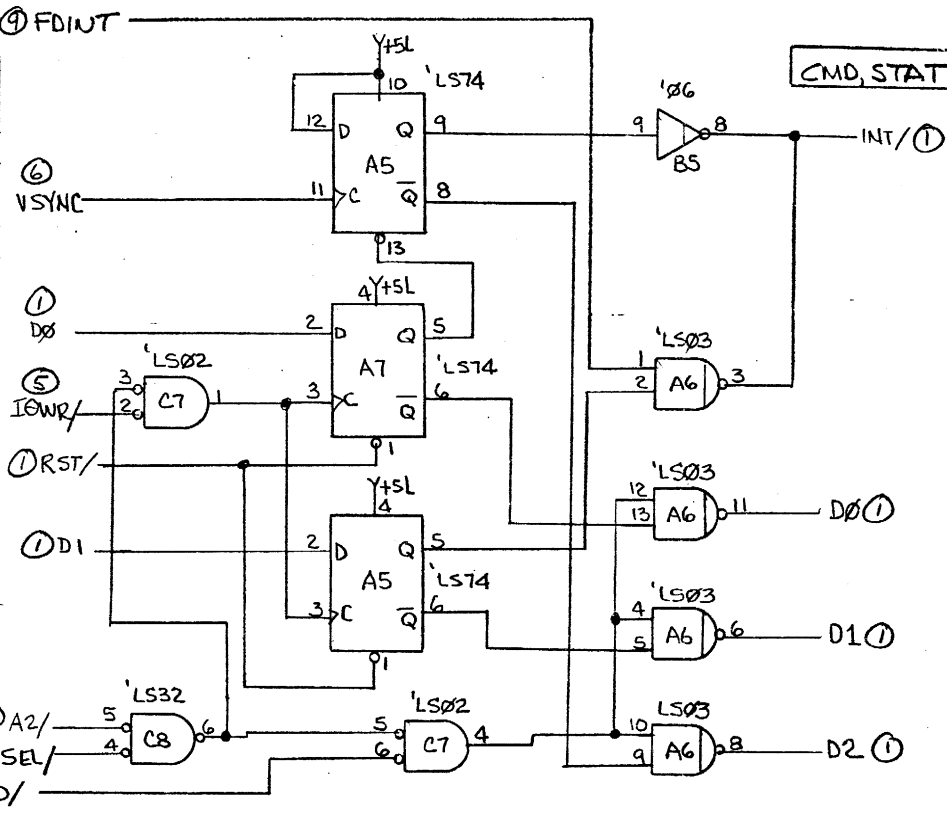
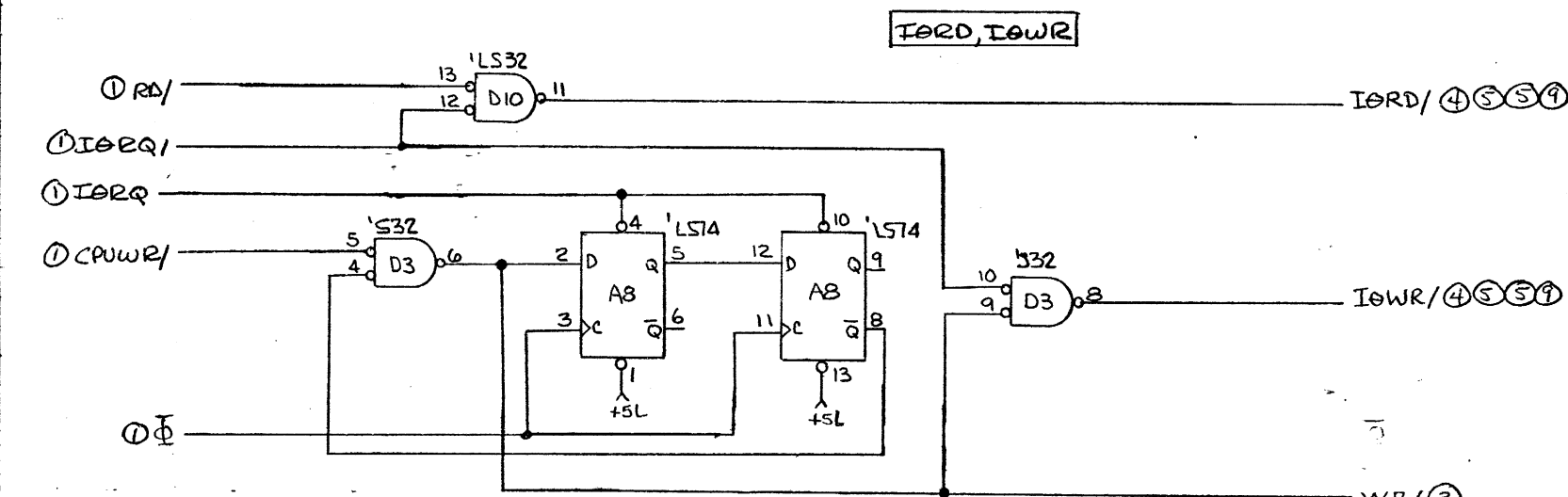
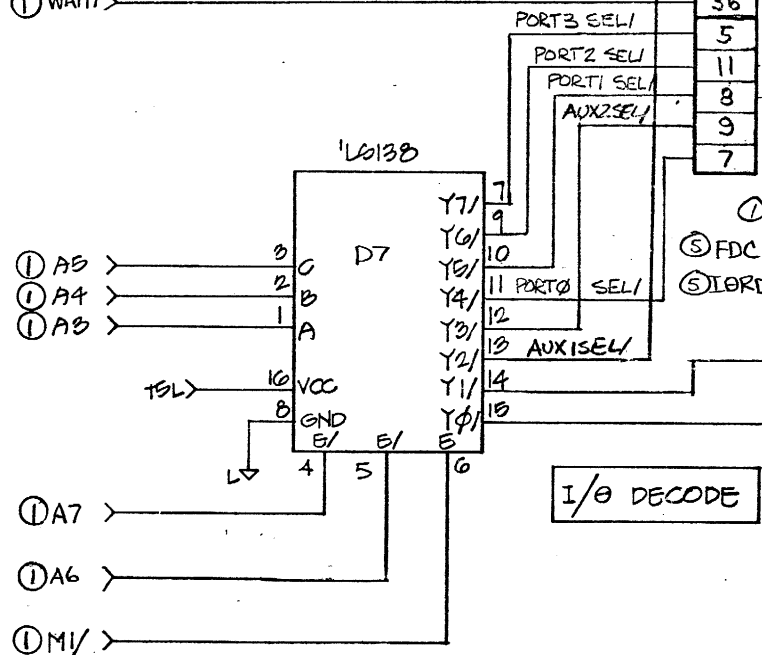
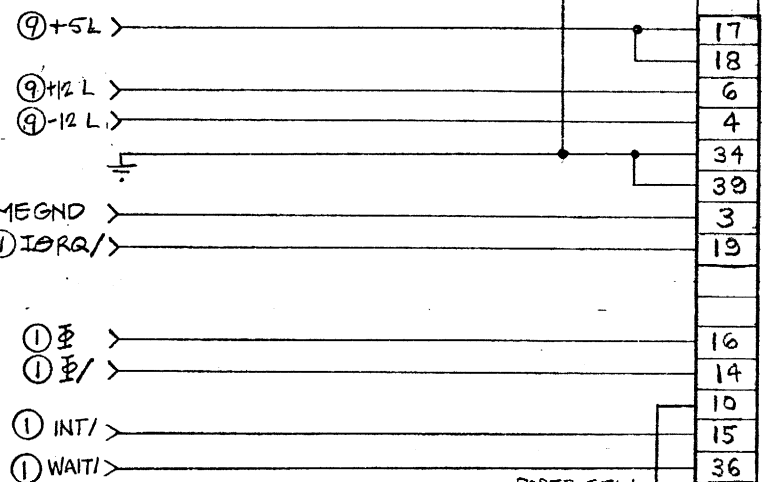
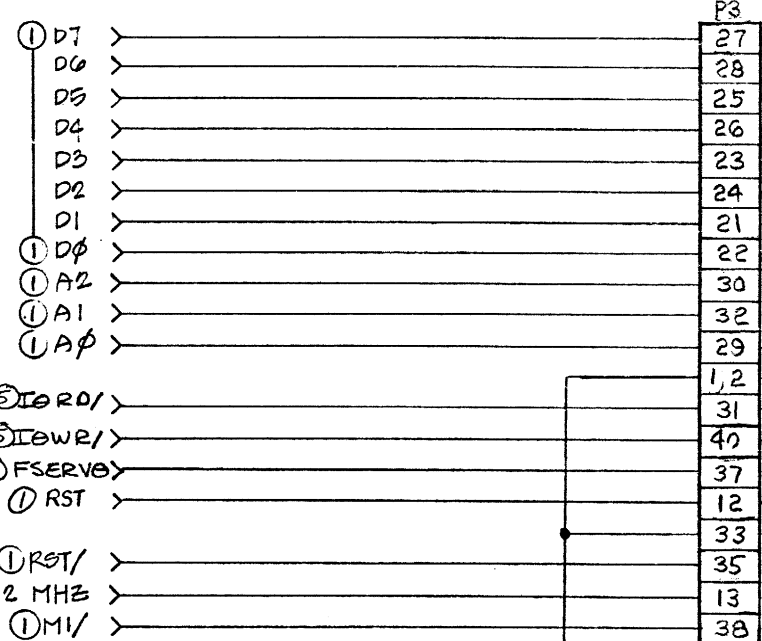
PROPRIETARY
OSBORNE
 COMPUTER CORPORATION

FEERV 5

QTY REQD	FSCM NO.	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	MATERIAL SPECIFICATION
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES .XX ± ° .XXX ± °		CONTRACT NO.		
MATERIAL		APPROVALS DATE		
FINISH		DRAWN NI 4-2-80		
NEXT ASSY		CHECKED CAI 4-2-80		
USED ON		ISSUED FFC 12/7/82		
APPLICATION		SCALE		
DO NOT SCALE DRAWING		SIZE FSCM NO.		
		DWG. NO. 1M00015		
		REV. 2		
		SHEET 4 OF 9		

A

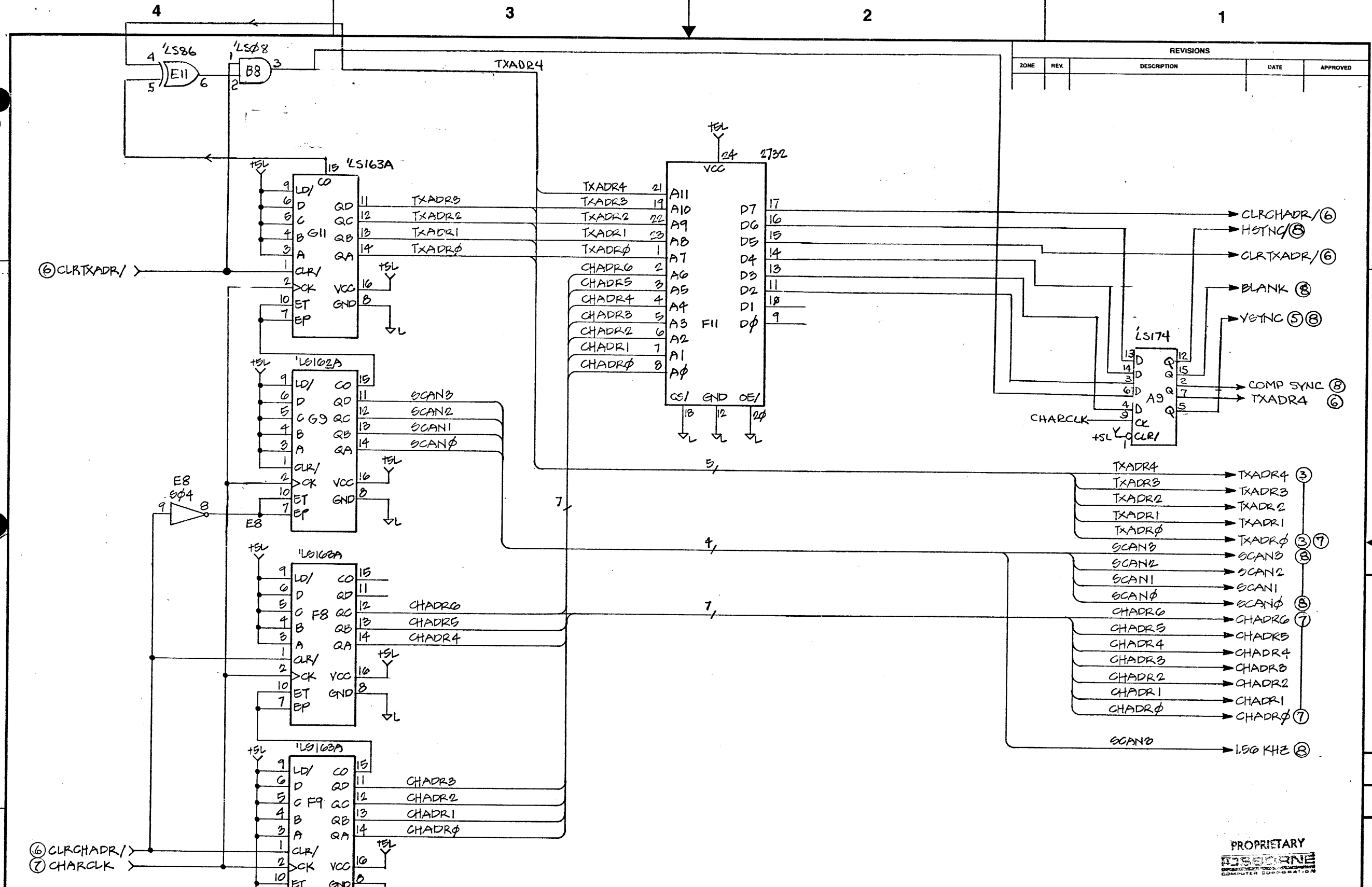
REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED



I/O ADDRESS MAP	
ADDR	SELECT
φ - 3	FDC
4 - 7	CMD/STATUS
8 - F	.PIO
10 - 17	AUX 1
18 - 1F	AUX 2
2φ - 27	PORTφ
28 - 2F	PORT1
3φ - 37	PORT2
3φ - 3F	PORTφ

PROPRIETARY
OSBORNE
COMPUTER CORPORATION

QTY REQD	FSCM NO.	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	MATERIAL SPECIFICATION
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES			CONTRACT NO.	
MATERIAL			APPROVALS DATE	
FINISH			CHECKED DATE	
NEXT ASSY USED ON			ISSUED DATE	
APPLICATION			DO NOT SCALE DRAWING	
			OSBORNE COMPUTER CORPORATION	
			26500 Corporate Avenue Hayward, California 94545 415-887-8080	
			OCC4 I/O DECODE I/O PORTS	
			SIZE FSCM NO. DWG. NO. REV.	
			C 1M00015 2	
			SCALE SHEET 5 OF 9	



REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED

D

C

DWG. NO.

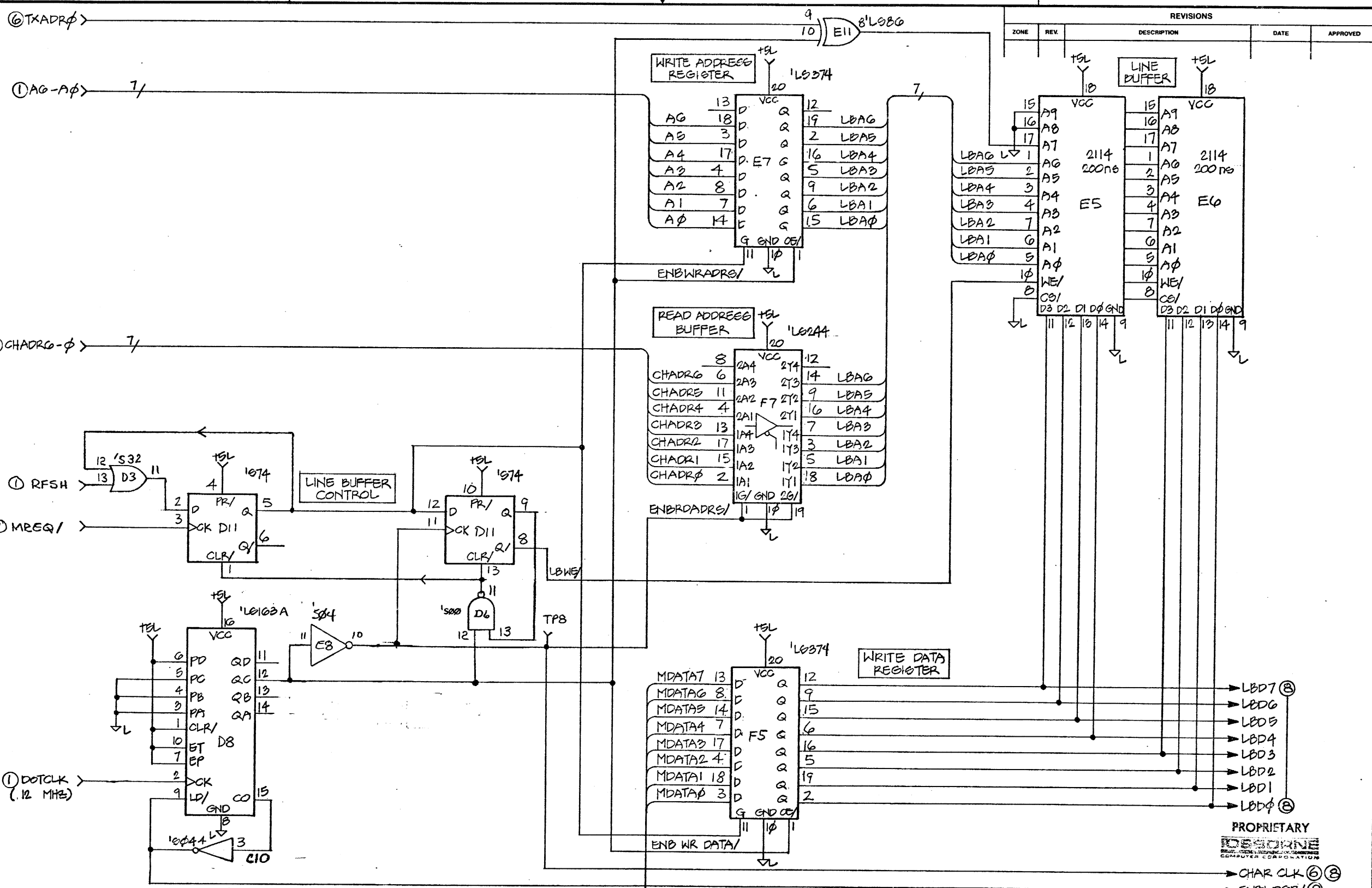
SH

REV

A

PROPRIETARY
OSBORNE
COMPUTER CORPORATION

QTY REQD	FSCM NO.	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	MATERIAL SPECIFICATION
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES = .XX = .XXX = °		CONTRACT NO.		
MATERIAL		APPROVALS	DATE	OSBORNE 26500 Corporate Avenue Hayward, California 94545 415-887-8080
FINISH		DRAWN	NI 4-4-82	
NEXT ASSY USED ON		CHECKED	CAI 4-4-82	
APPLICATION		ISSUED	TRC 12/7/82	OCC4 DISPLAY ADDRESS DISPLAY CONTROL ROM SIZE FSCM NO. DWG. NO. 1M00015 REV. 2 SCALE SHEET 6 OF 9



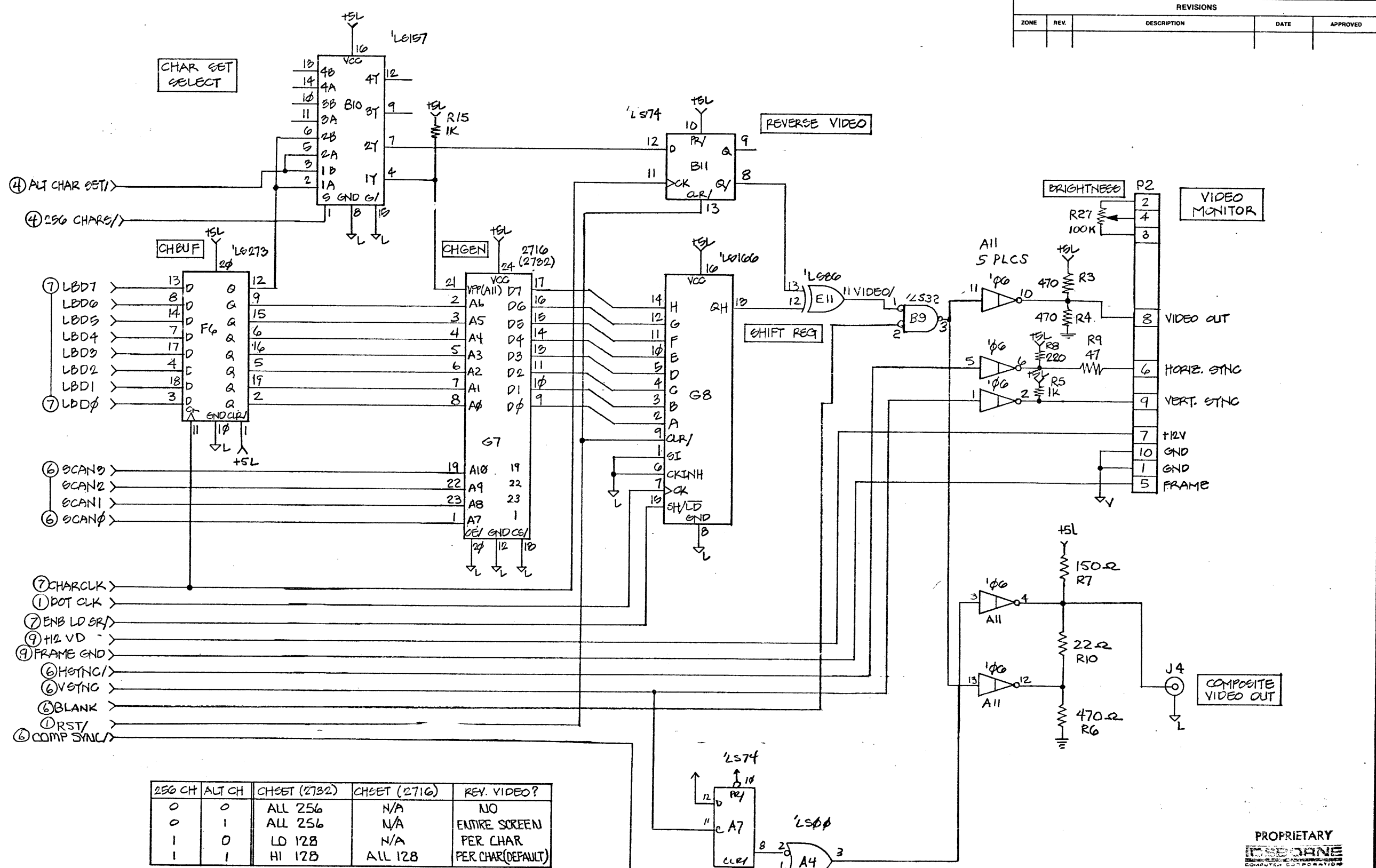
REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED

QTY REQD	FSCM NO.	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	MATERIAL SPECIFICATION
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES - .XX °		CONTRACT NO.		
MATERIAL		APPROVALS		DATE
FINISH		DRAWN		4.4.82
NEXT ASSY		CHECKED		4.4.82
USED ON		ISSUED		2/7/82
APPLICATION		SCALE		
DO NOT SCALE DRAWING		OSBORNE COMPUTER CORPORATION		26500 Corporate Avenue Hayward, California 94545 415-887-8080
		OCC4		
		LINE BUFFER		
		SIZE	FSCM NO.	DWG. NO.
		C		1M00015
		SCALE		REV. 2
				SHEET 7 OF 9

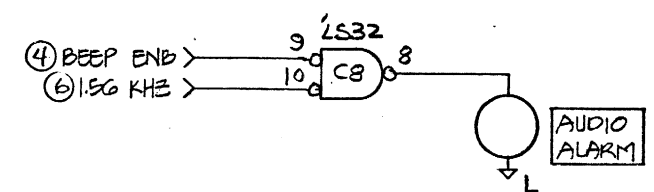
DWG. NO. REV.

A

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED



256 CH	ALT CH	CHSET (2732)	CHSET (2716)	REV. VIDEO?
0	0	ALL 256	N/A	NO
0	1	ALL 256	N/A	ENTIRE SCREEN
1	0	LD 128	N/A	PER CHAR
1	1	HI 128	ALL 128	PER CHAR(DEFAULT)



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QTY REQD	FSCM NO.	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	MATERIAL SPECIFICATION

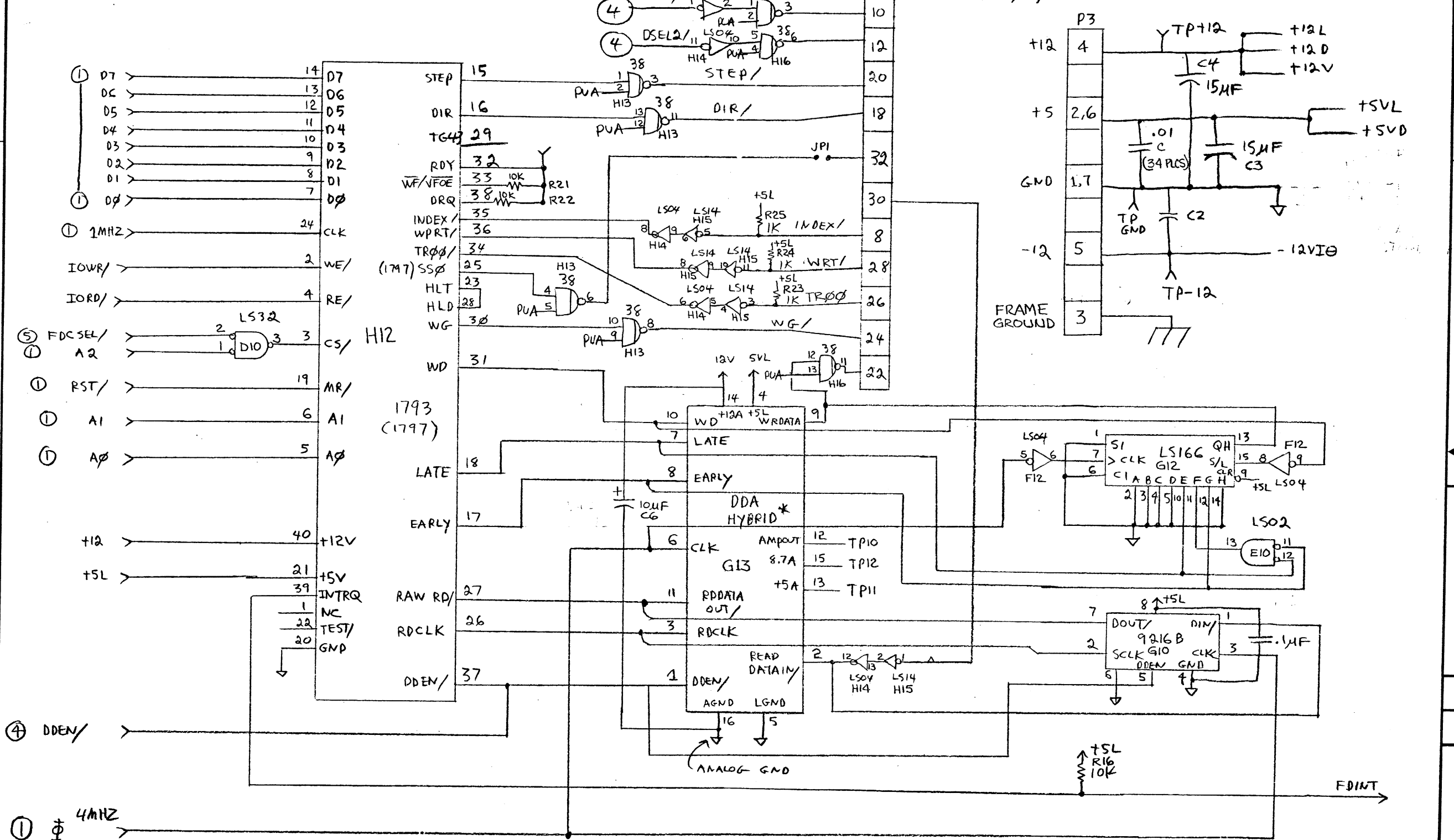
APPROVALS		DATE	OSBORNE COMPUTER CORPORATION	
DRAWN	NI	4-7-82	26500 Corporate Avenue Hayward, California 94545 415-887-8080	
CHECKED	CAI	4-7-82	OCC4 CHARACTER GENERATOR VIDEO	
ISSUED	FFC	12/7/82	SIZE	FSCM NO.
			DWG. NO.	REV.
			1M00015	2
			SHEET	0 OF 9

↑ TSL
150Ω R26
PUA

ANSI DISC XFACE
CONNECTOR

ALL ODD 1,3,5,7,9,11
13,15,17,19,21
23,25,27,29,31,33

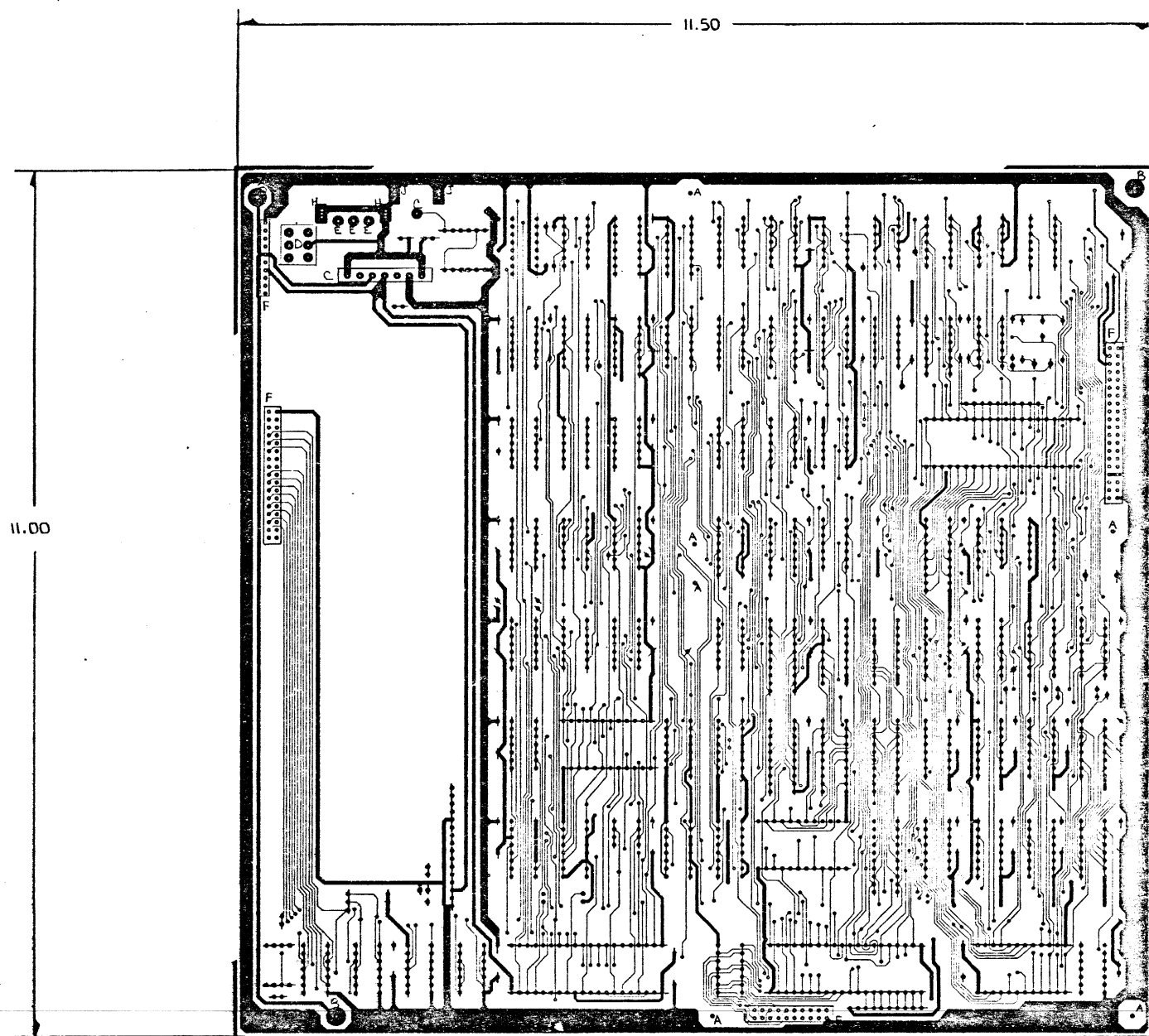
REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED



- NOTES
- ① IF HYBRID DO NOT STUFF LS166, 9216
 - ② ——— INDICATES A CONNECTION TO TSL
 - ③ ——— INDICATES AN INDIVIDUAL CONNECTION TO A 150Ω SIP

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES XX ± .XXX ±		CONTRACT NO.		OSBORNE COMPUTER CORPORATION Hayward, California 94545 415-887-8080	
APPROVALS		DATE		DRAWN AL ROGERS NOV 8 1972	
MATERIAL		FINISH		SIZE FSCM NO. DWG. NO. 1M00015 REV.	
NEXT ASSY		USED ON		ISSUED 12/7/72 SCALE	
APPLICATION		DO NOT SCALE DRAWING		SHEET 9 OF 9	

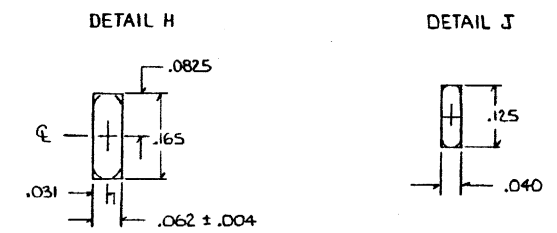
NON-COMPONENT SIDE SHOWN



- NOTES:**
- MATERIAL** A) .062 THICK GLASS EPOXY BOARD TYPE: FR4
COLOR: NATURAL 1DE THICK COPPER CLAD 2 SIDES
UL APPROVED
 - DRILLING** A) ALL HOLES ARE FINISHED SIZE AFTER PLATING.
B) ALL HOLES TO BE DRILLED TO BEST COMMERCIAL STANDARDS.
C) ALL HOLES SHALL BE LOCATED WITHIN .003 INCH OF THEIR TRUE POSITION WITH RESPECT TO CENTER OF PAD.
D) HOLE DIAMETER, UNLESS OTHERWISE NOTED, ±.004 INCH.
E) SCHEDULE

SYMBOL	SIZE-DIA.	QTY.
A	.150 DIA NOPLATE THRU	6
B	.150 DIA PLATED THRU	3
C	.070	8
D	.060	6
E	.050	3
F	.036 -.001 +.002	104
G	.036	1594
UNMKD	.032 - .034	NC
H	SEE DETAIL PLATED THRU	2
J	SEE DETAIL PLATED THRU	2

- FINISH** A) PLATE-THRU WITH COPPER, UNLESS OTHERWISE NOTED. MINIMUM PLATING THICKNESS: .0012 INCH
B) TIN-LEAD ELECTRO-PLATE BOARD SURFACES, EXCLUDING EDGE FINGERS. TIN CONTENT TO BE 60% ±10%. MINIMUM PLATING THICKNESS: .0005 INCH
~~C) GOLD PLATE EDGE FINGERS OVER LOW STRESS NICKEL. GOLD TYPE: TWO. MINIMUM NICKEL THICKNESS: .0005 INCH. MINIMUM GOLD THICKNESS: .0003 INCH. THERE SHALL BE NO EXPOSED COPPER ALONG DE MARGINATION LINE.~~
D) APPLY SOLDER MASK FRONT AND BACK. USE SUPPLIED FILMWORK. CURE PER RECOMMENDED DIRECTIONS. MASK TYPE: EPOXY, COLOR: GREEN MFG: PC401
E) APPLY SILK SCREEN TO FRONT SIDE. LETTERING AND LINE WORK TO BE CLEAR AND NON-SMEARED. INK TYPE: EPOXY, COLOR: WHITE
- GENERAL** A) FRONT TO BACK REGISTRATION BETTER THAN .005 INCH
B) MECHANICAL TOLERANCE: .XX = .010; .XXX = .005
C) MINIMUM CONDUCTOR WIDTH: .010
MINIMUM CONDUCTOR WIDTH: —
MINIMUM AIR GAP: .010
D) THIS PRINTED CIRCUIT BOARD IS TO BE FABRICATED TO BEST STANDARDS. THE FINISHED BOARD IS TO MEET THE ABOVE REQUIREMENTS, AND SPECIFICATIONS. THE FINISHED BOARD WILL NOT HAVE THE FOLLOWING: NICKS, SCRATCHES, VOIDS, EXPOSED COPPER, POOR PLATING, OR MISDRILLED HOLES.
E) PACK FINISHED BOARD WITH PROTECTIVE COVERING.

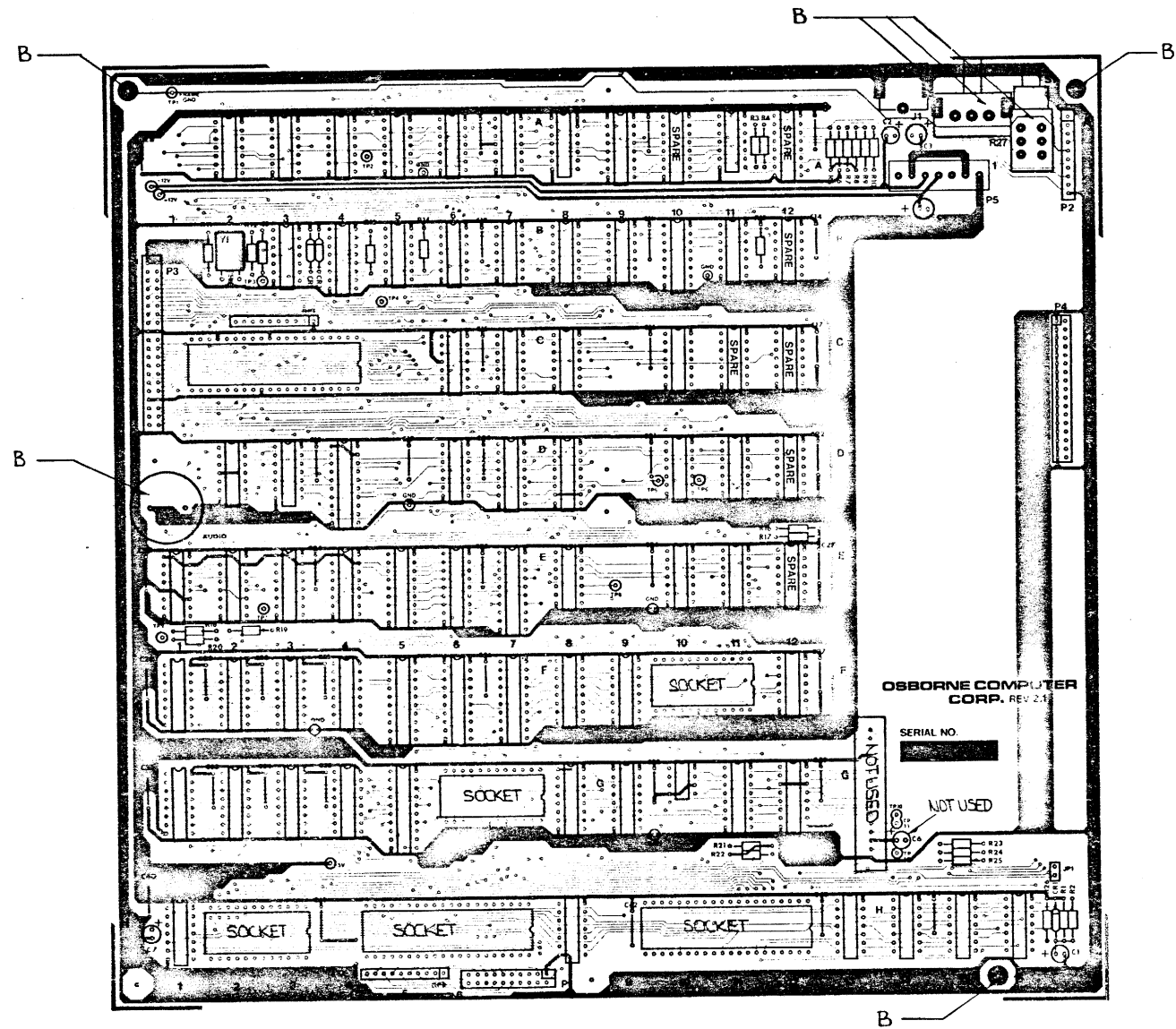


NOTE: DETAILS H AND J CAN BE RECTANGLE OR FULL RADIUS

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		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES XX .XXX		OSBORNE Hayward, California 94545 COMPUTER CORPORATION 415-887-3000	
		APPROVALS	DATE	MAINLOGIC BOARD	
		DRAWN PCA	3-13-83		
		CHECKED			
MATERIAL		ISSUED	SIZE D	DWG. NO.	REV. 2.1
FINISH		SCALE 1:1		SHEET 1 OF 1	
NEXT ASSY	USED ON	APPLICATION		DO NOT SCALE DRAWING	

COMPONENT SIDE SHOWN



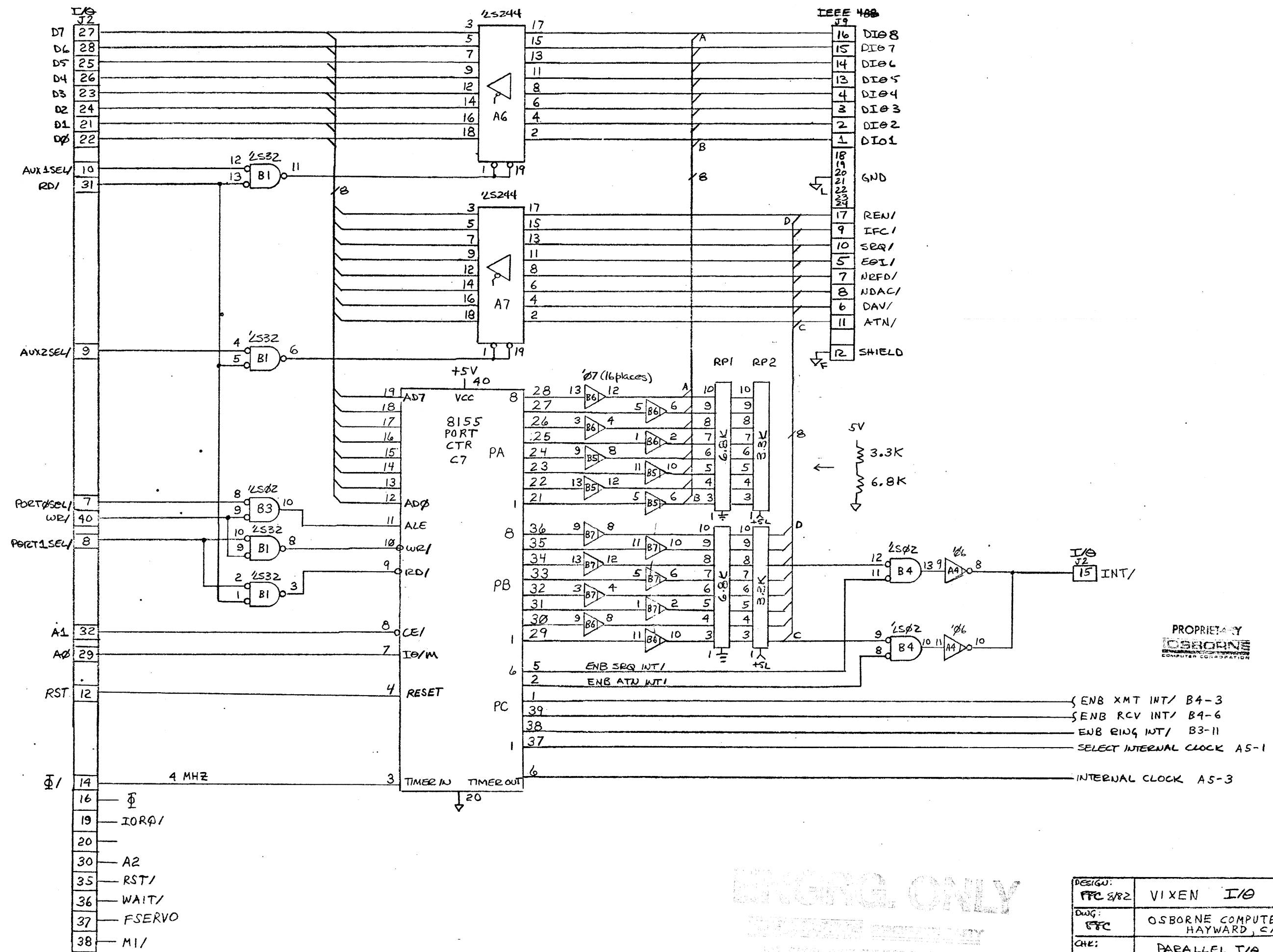
- NOTES: A. INSTALL SOCKETS AT LOCATIONS C4, F11, G7, H3, H7, H12.
 B. SECOND ASSEMBLY, MASK BEFORE WAVE SOLDER.
 C. ALL RESISTORS ARE $\frac{1}{4}$ " W, .5" SPACING.
 D. C1, 2, 3, AND CAPACITOR C5 ARE .5" SPACING.
 E. CAPACITORS C8 - C44 ARE .4" SPACING.
 F. LOCATION G13 AND CAPACITOR C6 ARE NOT USED.

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		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES - .XX - - .XXX -		OSBORNE Hayward, California 94545 COMPUTER CORPORATION 415-887-8080	
		APPROVALS		DATE	
		DRAWN ACA		3-13-83	
		CHECKED			
		ISSUED			
NEXT ASSY	USED ON	FINISH		SIZE	REV.
		DO NOT SCALE DRAWING		D	2.1
APPLICATION		DO NOT SCALE DRAWING		SCALE 1:1	SHEET 1 OF 1

OSBORNE COMPUTER CORP.				TITLE: VIXEN I/O		LM# 6M00016-01	
Drawn: ACA		Checked		DATE 3/13/83		Revision 1.1	
Appvd:		IECO#:		Date:		Released:	
DETACHED LIST OF MATERIALS							
ITEM	PART NO.	QTY	UM	TITLE			REFERENCE DESIGNATORS
001		001	EA	BLANK PC BOARD			
002	7P11899-00	001	EA	7406, TTL HEX OC INV			A4
003	7P11900-00	003	EA	7407, TTL HEX OC			B5, B6, B7
004	7P11002-00	002	EA	74LS02N LSTTL QUAD NOR GATE			B3, B4
005	7P11032-00	002	EA	74LS32N LSTTL QUAD OR GATE			B1, B2
006	7P11157-00	001	EA	74LS157 LSTTL QUAD SEL/MULT			A5
007	7P11244-00	002	EA	74LS244 LSTTL TRI ST OCT BUF			A6, A7
008	7P11830-00	001	EA	1488 QUAD RS-232-C DRIVER			A1
009	7P11831-00	002	EA	1489A QUAD RS-232-C RECEIVER			A2, A3
010		001	EA	8155 PORT/RAM/CTR			C7
011		001	EA	8251A ASYNC/SYNC UART			C3
012	7P46104-00	010	EA	CAP, 10UF, 25V, 30%, CER, AXIAL			C2-C11
013	7P45601-00	001	EA	CAP, 22UF, 16V ALUM			C1
014	7P51008-00	002	EA	RES NET, 3.3K, 1/8W, 10%, SIP 10 PIN			RN2, RN4
015	7P51009-00	002	EA	RES NET, 6.8K, 1/8W, 10%, SIP 10 PIN			RN1, RN3
016		001	EA	HEADER, 40 PIN, STRT, PC MOUNT			J3
017	7P64125-00	001	EA	CONN, 25 PIN D RT ANGLE RS232 XFACE			J1
018		001	EA	CONN, 24 PIN, RT ANGLE, IEEE-488 XFACE			J2

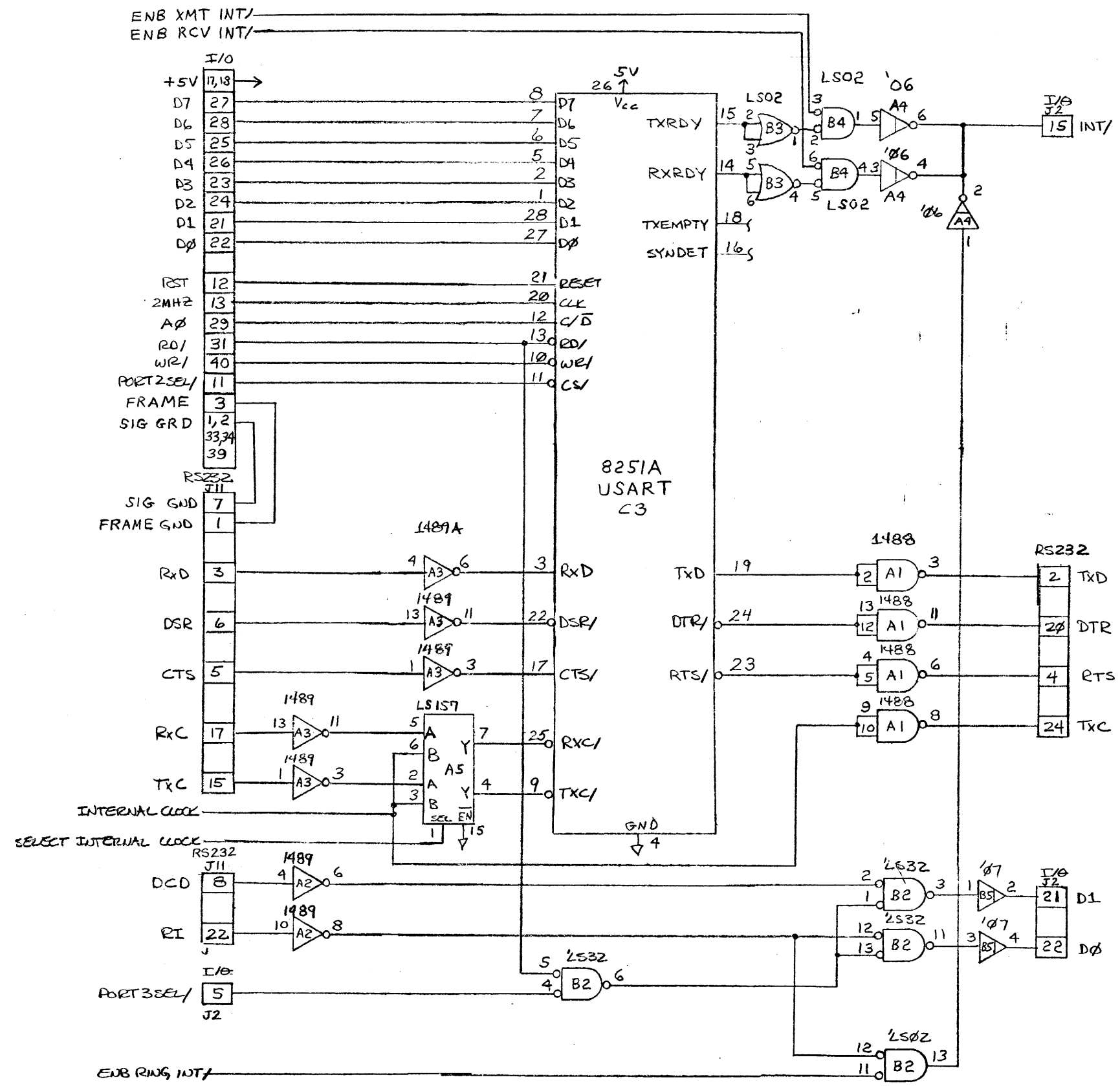
OSBORNE COMPUTER CORP.				TITLE: VIXEN I/O		ILM# 6M00016-01	
				DATE 3/13/83		Revision 1.1	
Drawn: ACA		Checked:		Appvd:		IECD#:	
						Date:	
						Released:	
DETACHED LIST OF MATERIALS							
ITEM	PART NO.	QTY	UM	TITLE			REFERENCE DESIGNATORS
019	7P65124-00	001	EA	SOCKET, IC, 24 PIN LOW PROFILE			C3
020	7P65140-00	001	EA	SOCKET, IC, 40 PIN LOW PROFILE			C7
-----END OF LM-----							



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COMPUTER CORPORATION

EMERG. ONLY
FOR SERVICE ONLY
NOT TO BE USED FOR ANY OTHER PURPOSE
AND SHOULD BE SUBJECT TO CHANGE

DESIGN:	FFC S/R2	VIXEN I/O
DWG:	FFC	OSBORNE COMPUTER CORP. HAYWARD, CA.
CHK:		PARALLEL I/O
CHK:		1M00016
		SHEET 1 of 2
		REV: 1

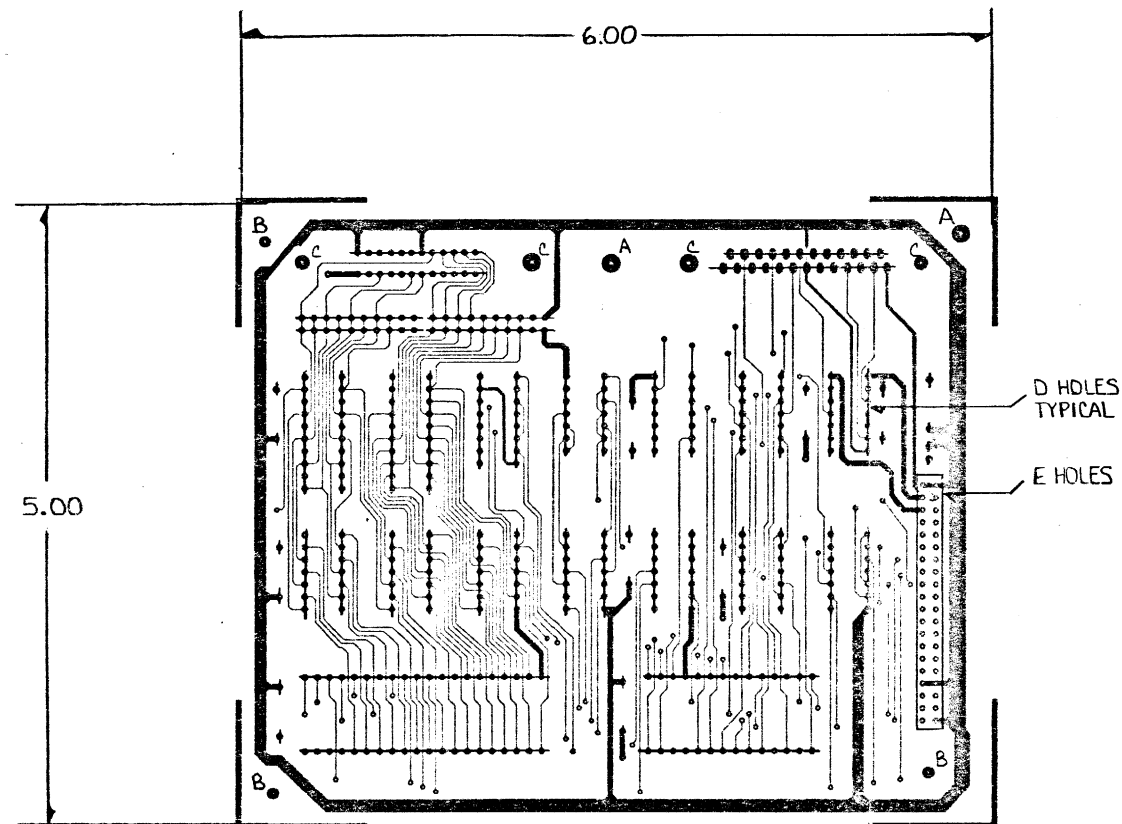


PROPRIETARY
OSBORNE

FOR QUOTE ONLY SUBJECT TO CHANGE

DESIGN:	FFC 8/82	VIXEN - I/O
DWG:	FFC	OSBORNE COMPUTER CORP. HAYWARD, CA.
CHK:		SERIAL I/O 1M00010
CHK:		SHEET 2 of 2

REV 1



NOTES:

1. MATERIAL A) .062 THICK GLASS EPOXY BOARD TYPE: FR4
COLOR: NATURAL 1 OZ THICK COPPER CLAD 2 SIDES
UL APPROVED
2. DRILLING A) ALL HOLES ARE FINISHED SIZE AFTER PLATING.
B) ALL HOLES TO BE DRILLED TO BEST COMMERCIAL STANDARDS.
C) ALL HOLES SHALL BE LOCATED WITHIN .003 INCH OF THEIR TRUE POSITION WITH RESPECT TO CENTER OF PAD.
D) HOLE DIAMETER, UNLESS OTHERWISE NOTED, $\pm .004$ INCH.
E) SCHEDULE

SYMBOL	SIZE-DIA.	QTY.
A	.150 DIA	2
B	.150 DIA NO PLATE THRU	3
C	.125 DIA	4
D	.036 DIA	391
E	.036 - .001 + .002	40
UNMKD	.032 ~ .034	NC

3. FINISH A) PLATE-THRU WITH COPPER, UNLESS OTHERWISE NOTED. MINIMUM PLATING THICKNESS: .0012 INCH
B) TIN-LEAD ELECTRO-PLATE BOARD SURFACES, EXCLUDING EDGE FINGERS. TIN CONTENT TO BE 60% \pm 10%. MINIMUM PLATING THICKNESS: .0005 INCH
~~C) GOLD PLATE EDGE FINGERS OVER LOW STRESS NICKEL - GOLD TYPE TWO. MINIMUM NICKEL THICKNESS: .0005 INCH. MINIMUM GOLD THICKNESS: .0003 INCH. THERE SHALL BE NO EXPOSED COPPER ALONG DE-EMAGNATION LINE.~~
D) APPLY SOLDER MASK FRONT AND BACK. USE SUPPLIED FILMWORK. CURE PER RECOMMENDED DIRECTIONS. MASK TYPE: EPOXY, COLOR: GREEN MFG: PC 401
E) APPLY SILK SCREEN TO FRONT SIDE. LETTERING AND LINE WORK TO BE CLEAR AND NON-SMEARED. INK TYPE: EPOXY, COLOR: WHITE
4. GENERAL A) FRONT TO BACK REGISTRATION BETTER THAN .005 INCH
B) MECHANICAL TOLERANCE: XX = .010; XXX = .005
C) MINIMUM CONDUCTOR WIDTH: .010
MAXIMUM CONDUCTOR WIDTH: —
MINIMUM AIR GAP: .010
D) THIS PRINTED CIRCUIT BOARD IS TO BE FABRICATED TO BEST STANDARDS. THE FINISHED BOARD IS TO MEET THE ABOVE REQUIREMENTS, AND SPECIFICATIONS. THE FINISHED BOARD WILL NOT HAVE THE FOLLOWING: NICKS, SCRATCHES, VOIDS, EXPOSED COPPER, POOR PLATING, OR MISDRILLED HOLES.
E) PACK FINISHED BOARD WITH PROTECTIVE COVERING.

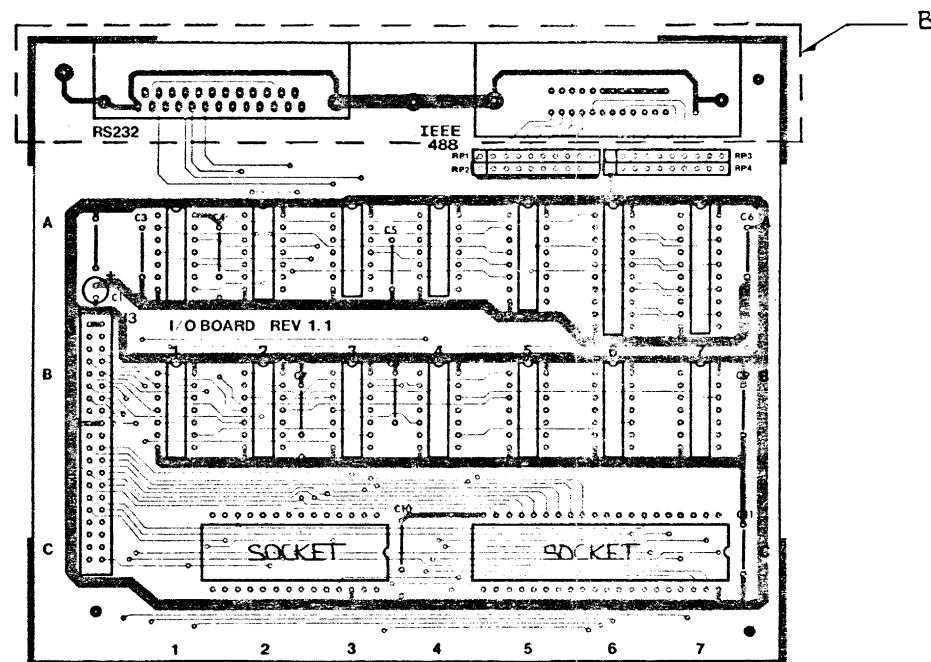
NON-COMPONENT SIDE SHOWN

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		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE FRACTIONS DECIMALS ANGLES XX XXX			
		APPROVALS		DATE	
		DRAWN		3-13-88	
		CHECKED			
		ISSUED			
NEXT ASSY		USED ON		SIZE	
APPLICATION		DO NOT SCALE DRAWING		DWG. NO.	
				REV. 1.1	
				SCALE 1:1	
				SHEET 1 OF 1	

Hayward, California 94545
415-867-8080

I/O BOARD

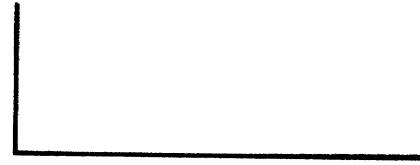


- NOTES: A. INSTALL SOCKETS AT LOCATION C3 AND C7.
 B. SECOND ASSY. MASK BEFORE WAVE SOLDER.
 C. CAPACITORS C2-C11 ARE ON .4" SPACING.

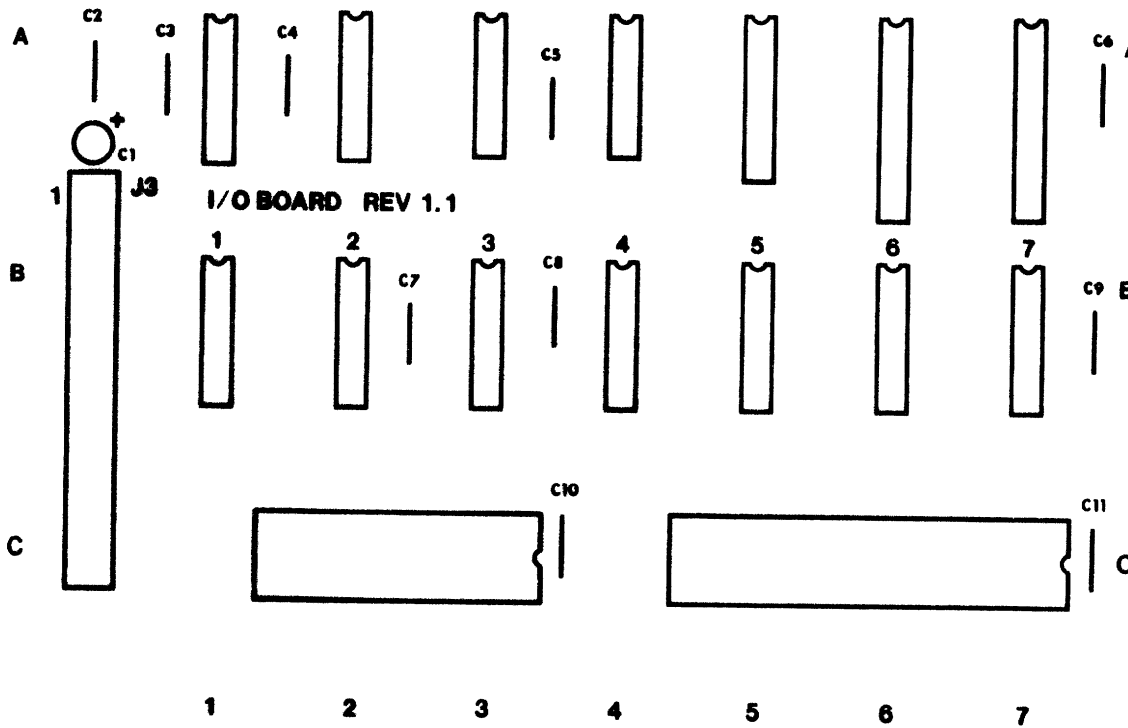
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE FRACTIONS DECIMALS ANGLES XX - XXX -		OSBORNE COMPUTER CORPORATION Hayward, California 94545 415-887-8080	
		MATERIAL		APPROVALS	DATE
		FINISH		DRAWN ACA	3-13-83
				CHECKED	
NEXT ASSY	USED ON			ISSUED	
APPLICATION		DO NOT SCALE DRAWING		I/O BOARD ASSEMBLY DETAIL	
				SIZE C	DWG. NO.
				SCALE 1:1	REV. 1.1
				SHEET 1 OF 1	



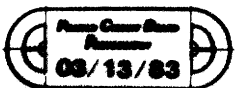
RS232

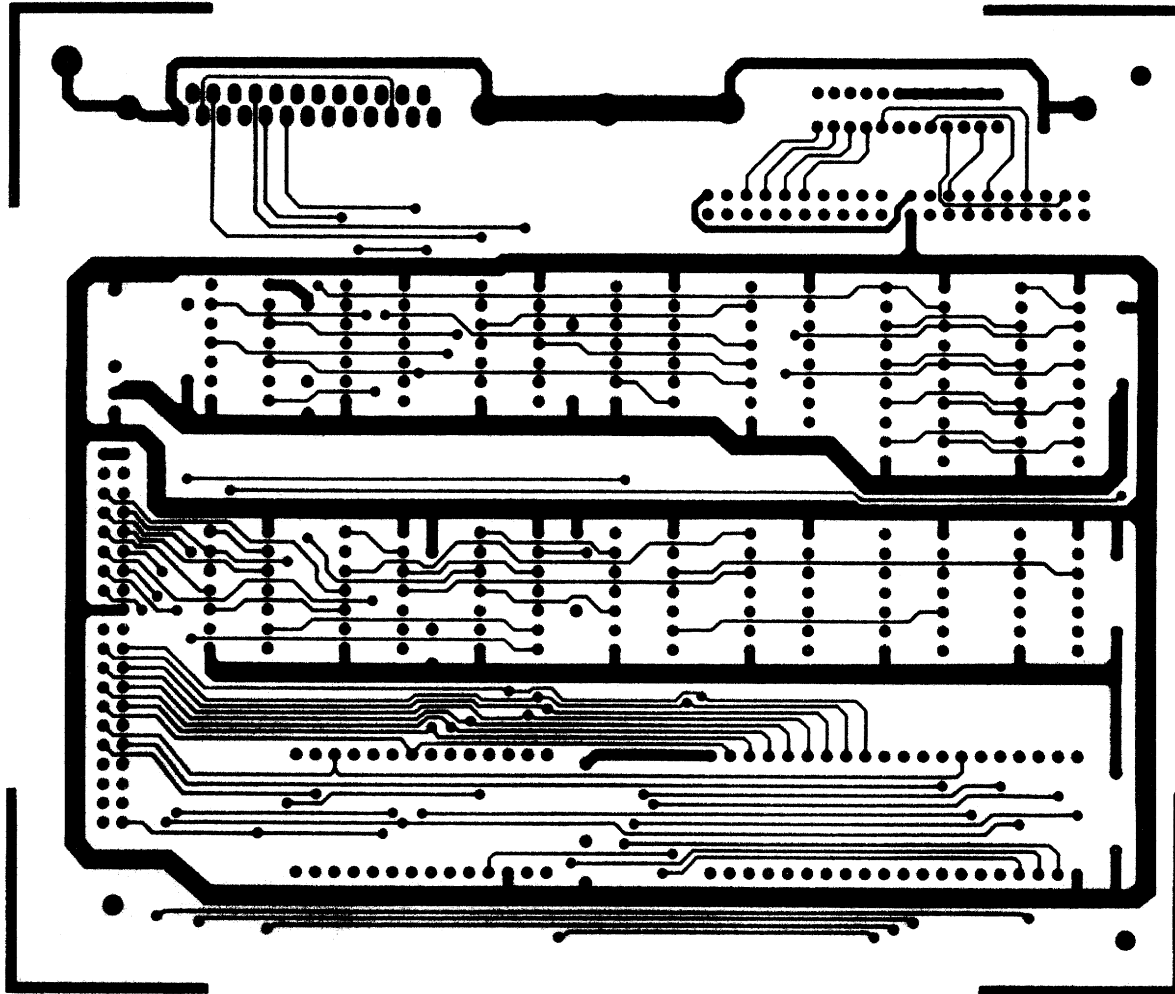


IEEE
488

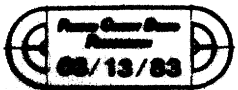


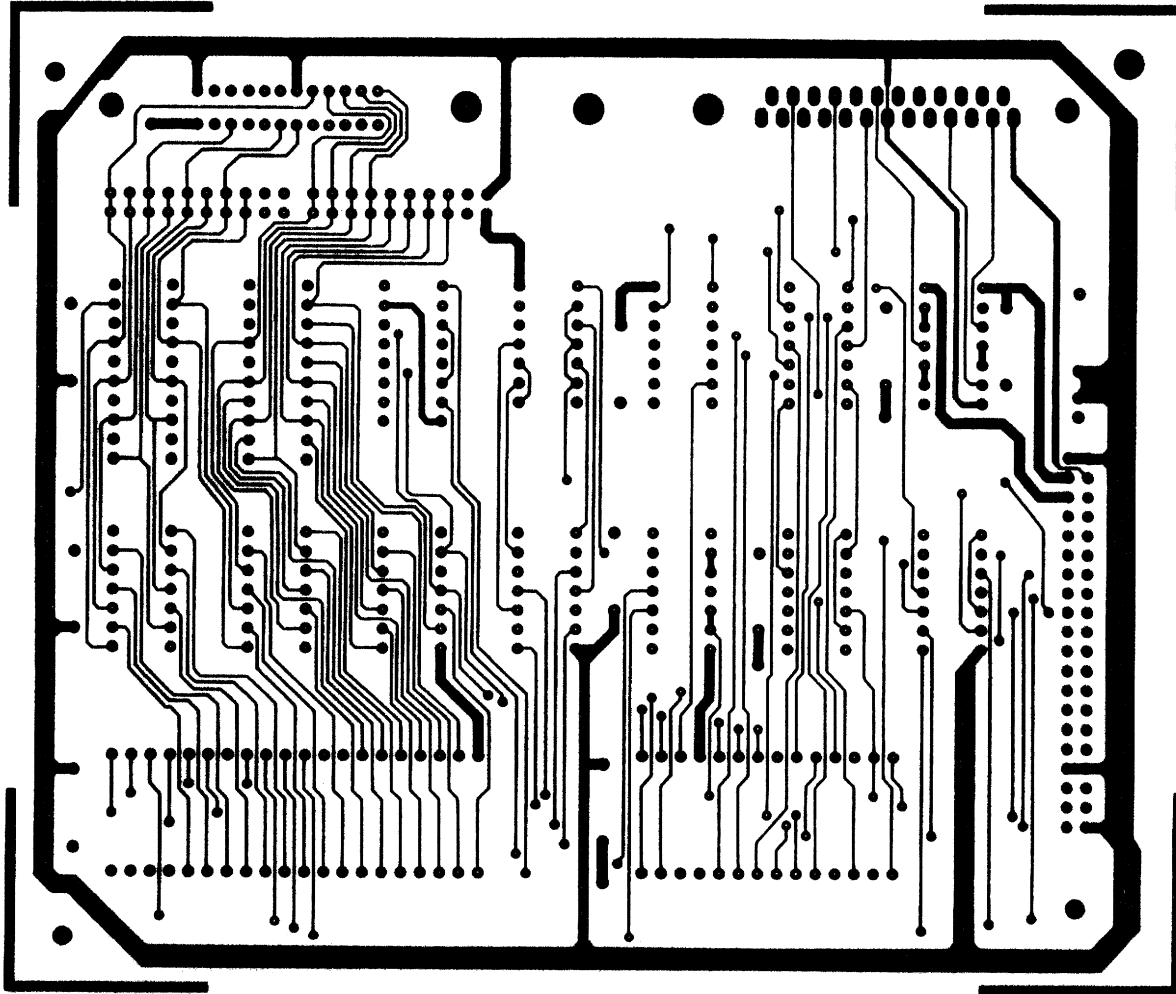
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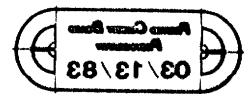


comp side

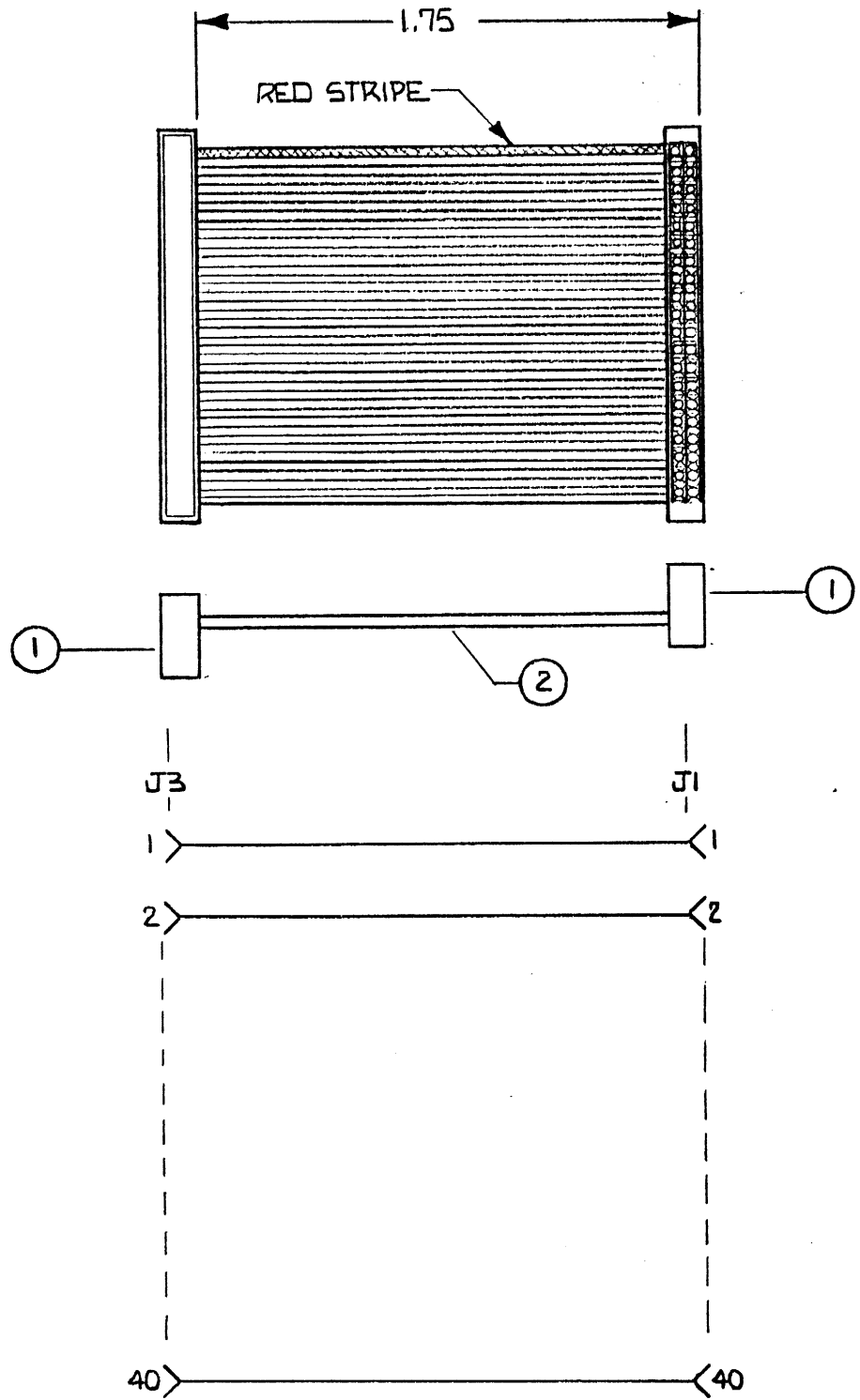




solder side



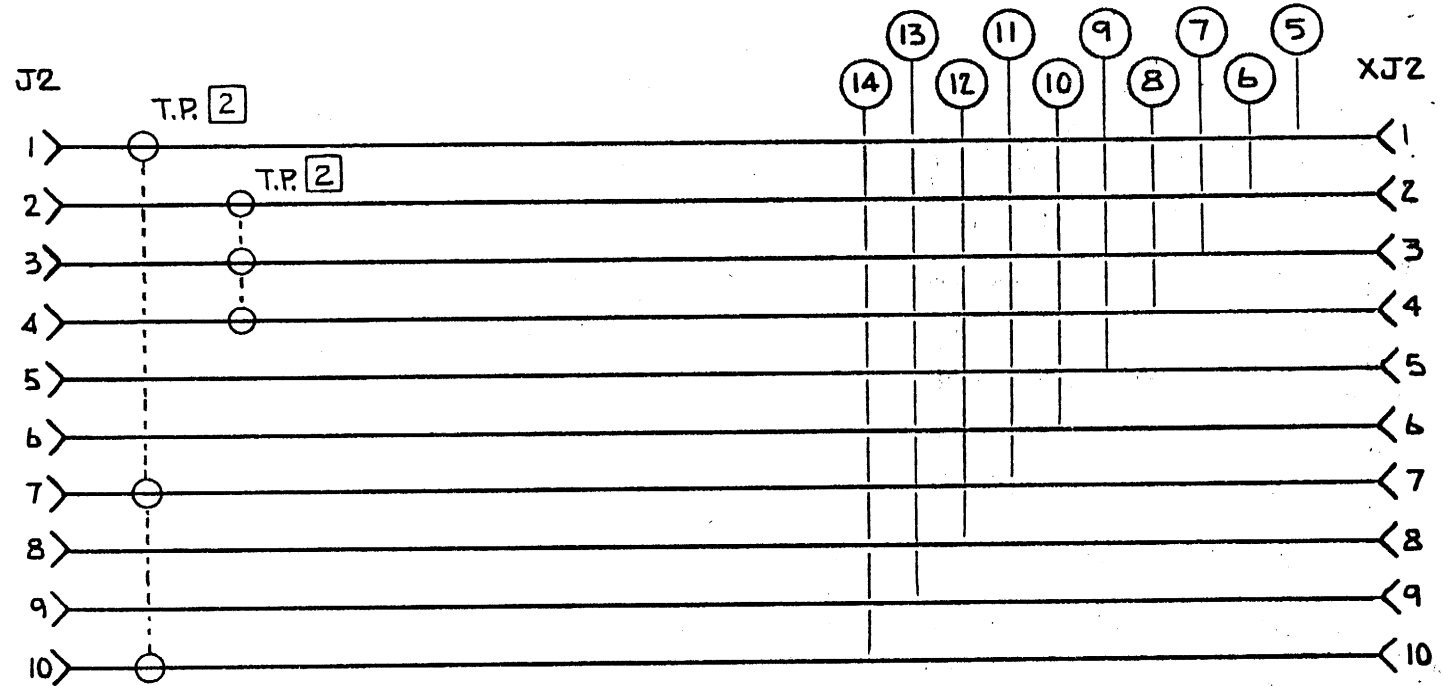
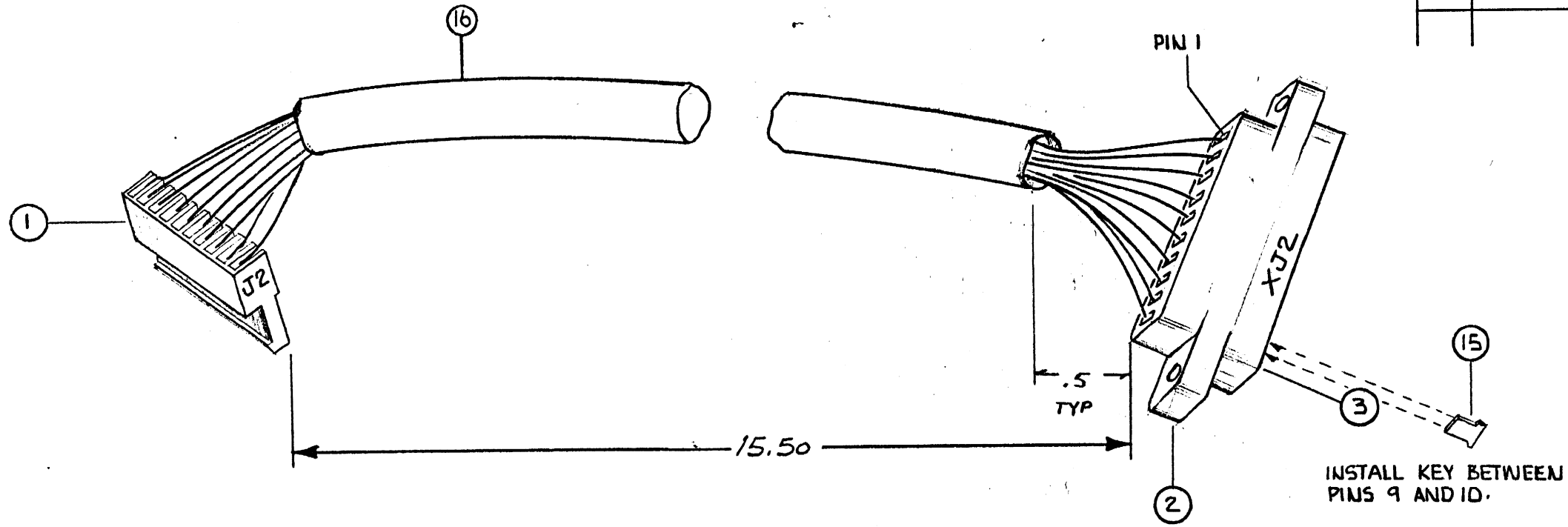
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED



2. ENSURE CONN. CAPS ARE IN PROPER FIT WITH CONN. BODY AFTER CRIMP.
 NOTES 1. ASSEMBLE PER BEST COM'L STDS

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:			
FRACTIONS ±	DECIMALS .XX ± .XXX ±	ANGLES ±	APPROVALS DATE DRAWN <i>J.P. BINNIS</i> 3-11-83 CHECKED ISSUED
MATERIAL	SEE L/M	FINISH	SIZE B DWG. NO. REV. XZ
NEXT ASSY	USED ON	APPLICATION	SCALE 1:1 SHEET 1
		DO NOT SCALE DRAWING	

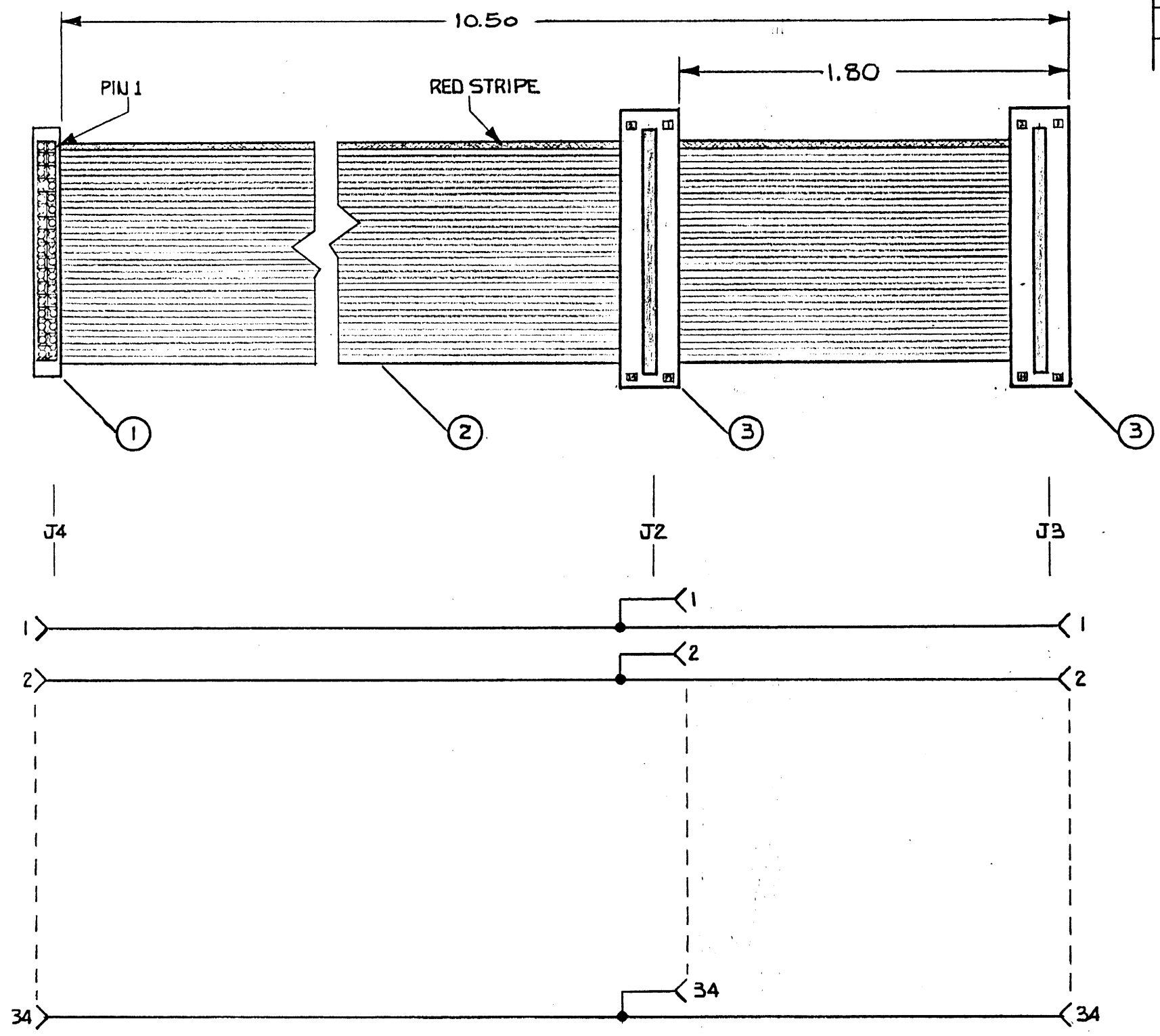
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED



2 T.P. = TWISTED PAIR
 NOTE 1. ASSEMBLE PER BEST COM'L STD'S

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:		OSBORNE COMPUTER CORPORATION	
FRACTIONS ±	DECIMALS .XX ± .XXX ±		
MATERIAL	SEE L/M	APPROVALS	DATE
FINISH		DRAWN M. BINNS	3-13-83
NEXT ASSY	USED ON	CHECKED	
		ISSUED	
APPLICATION	DO NOT SCALE DRAWING	SIZE B	DWG. NO.
		SCALE 1:1	REV. X2
			SHEET 1

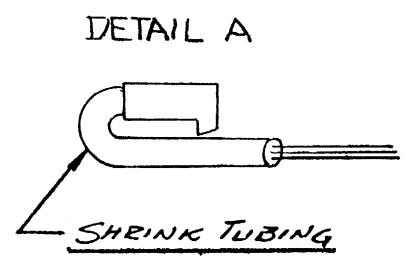
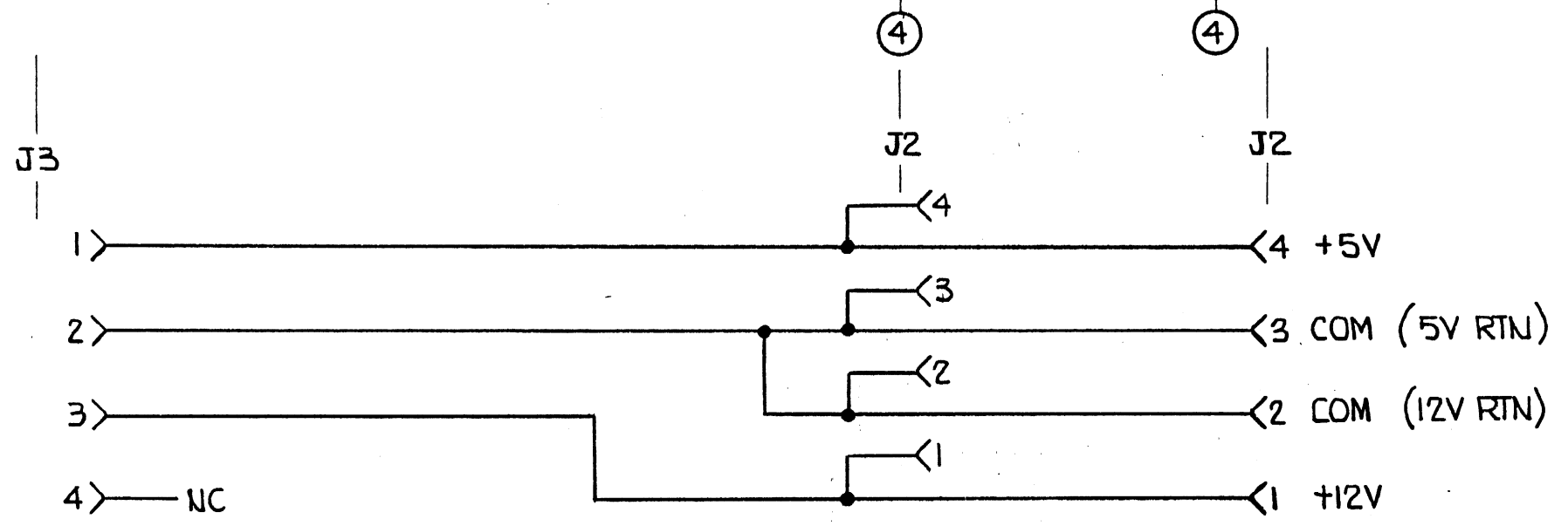
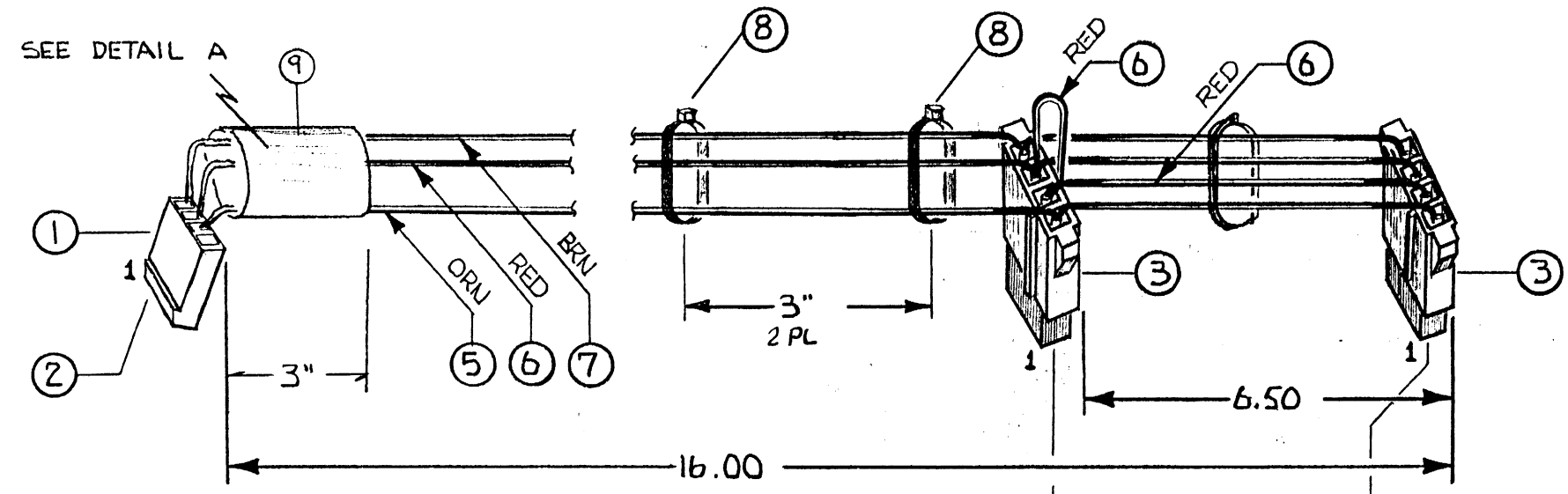
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED



2. ENSURE CONN. CAPS ARE IN PROPER FIT WITH CONN. BODY AFTER CRIMP.
 NOTES 1. ASSEMBLE PER BEST COMIL STDS

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:			
FRACTIONS ±	DECIMALS .XX ± .XXX ±	ANGLES ±	APPROVALS _____ DATE 3-11-83
MATERIAL	SEE L/M	FINISH	DRAWN <i>J.P. BINNIS</i> CHECKED _____ ISSUED _____
NEXT ASSY	USED ON	APPLICATION	ASSY, CABLE, DISC DRIVE, SIGNAL PORT. COMP. DWG. NO. _____ REV. XZ
DO NOT SCALE DRAWING		SCALE 1:1	SHEET 1

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED



FORM TIGHT 180° BEND WHILE SHRINK TUBING IS STILL HOT. BUTT TUBING AGAINST CONN. HOUSING

NOTES 1. ASSEMBLE PER BEST COM'L STDS.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:		OSBORNE COMPUTER CORPORATION	
FRACTIONS ±	DECIMALS .XX ± .XXX ±		
MATERIAL	SEE L/M	APPROVALS	DATE
FINISH		DRAWN <i>J.P. BARNES</i>	3-11-83
NEXT ASSY	USED ON	CHECKED	
APPLICATION		ISSUED	
DO NOT SCALE DRAWING		SIZE B	DWG. NO.
		SCALE 1:1	REV. X2
		SHEET	