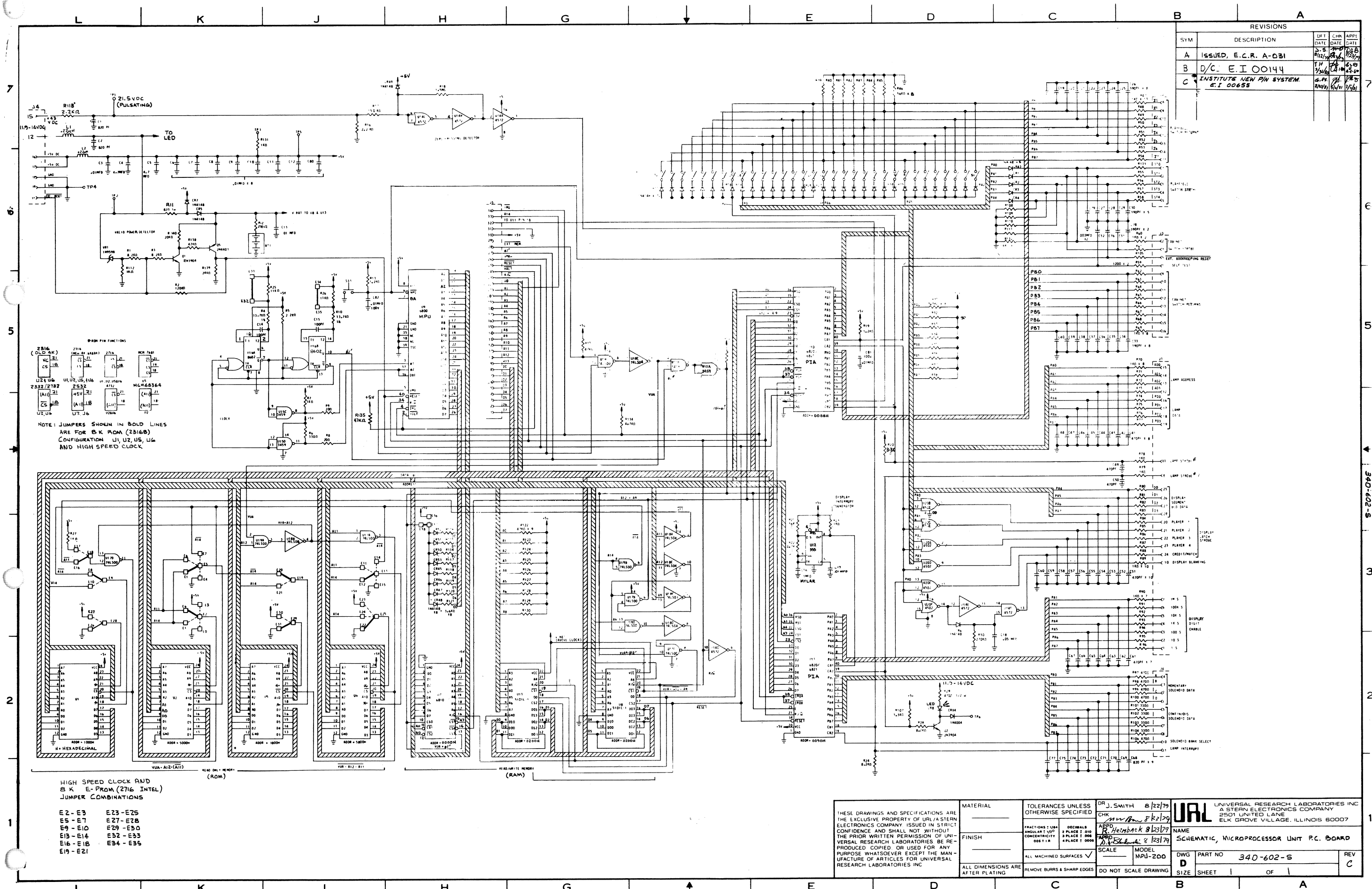
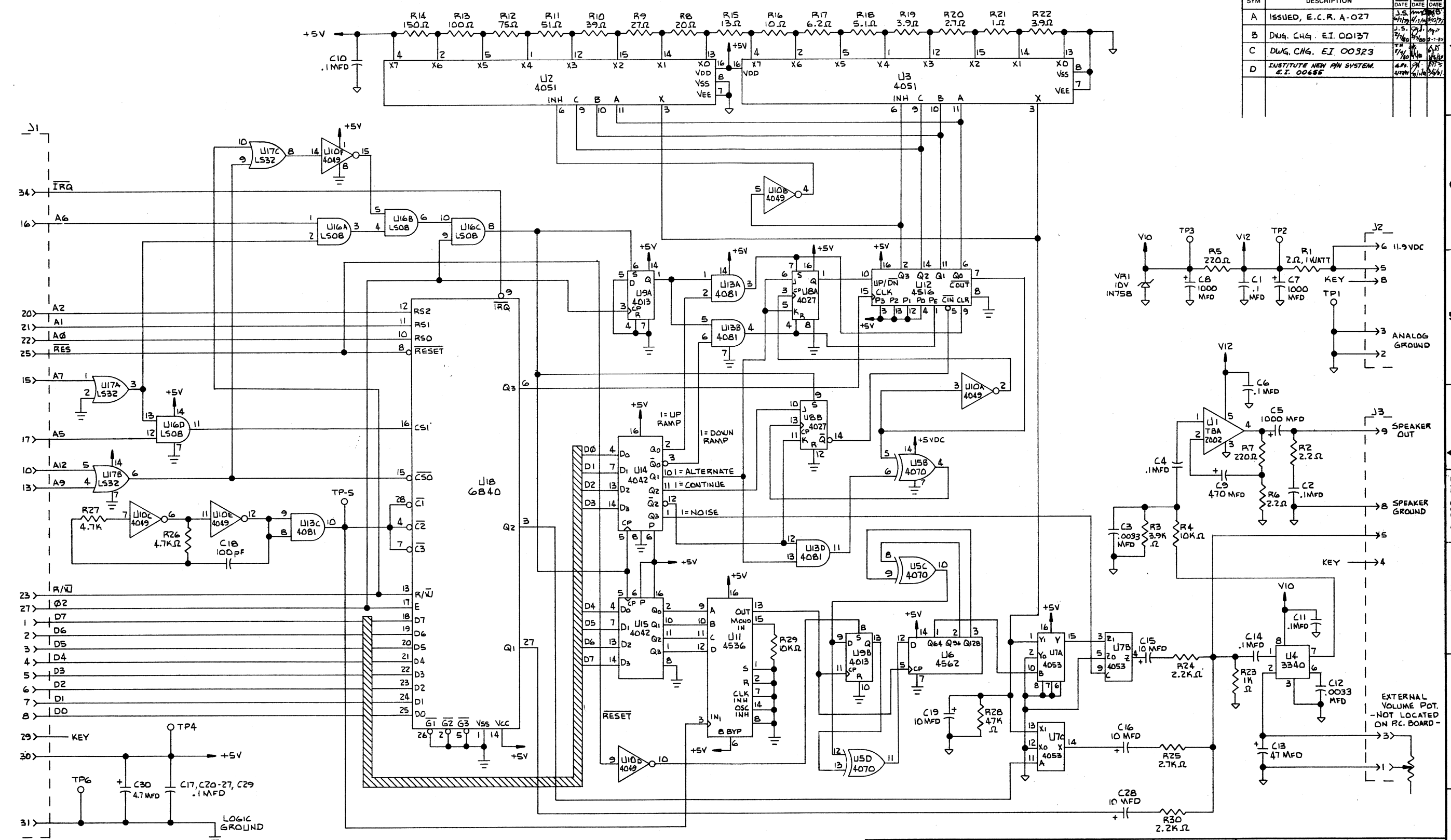




REVISIONS			
SYM	DESCRIPTION	DATE	CHK
A	ISSUED, E.C.R. A-031	12/1/79	J.S.
B	D/C E.I. 00144	1/1/80	J.S.
C	INSTITUTE NEW PIN SYSTEM E.I. 00655	6/1/80	J.S.

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NAME: SCHEMATIC, MICROPROCESSOR UNIT P.C. BOARD		DWG: 340-602-S	PART NO: 340-602-S	REV: C	

REVISIONS			
SYM	DESCRIPTION	DATE	APPD
A	ISSUED, E.C.R. A-027	1/1/79	J.S.
B	DWG. CHG. E.I. 00137	1/1/79	J.S.
C	DWG. CHG. E.I. 00323	1/1/79	J.S.
D	INSTITUTE NEW PIN SYSTEM. E.I. 00455	1/1/79	J.S.



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TOLERANCES UNLESS OTHERWISE SPECIFIED FRACTIONS: 1/16" 1/32" 1/64" 3/32" 1/8" 1/4" 3/8" 1/2" 5/8" 3/4" 7/8" 1" 1 1/4" 1 1/2" 1 3/4" 2" 2 1/4" 2 1/2" 2 3/4" 3" 3 1/4" 3 1/2" 3 3/4" 4" 4 1/4" 4 1/2" 4 3/4" 5" 5 1/4" 5 1/2" 5 3/4" 6" 6 1/4" 6 1/2" 6 3/4" 7" 7 1/4" 7 1/2" 7 3/4" 8" 8 1/4" 8 1/2" 8 3/4" 9" 9 1/4" 9 1/2" 9 3/4" 10" 10 1/4" 10 1/2" 10 3/4" 11" 11 1/4" 11 1/2" 11 3/4" 12" 12 1/4" 12 1/2" 12 3/4" 13" 13 1/4" 13 1/2" 13 3/4" 14" 14 1/4" 14 1/2" 14 3/4" 15" 15 1/4" 15 1/2" 15 3/4" 16" 16 1/4" 16 1/2" 16 3/4" 17" 17 1/4" 17 1/2" 17 3/4" 18" 18 1/4" 18 1/2" 18 3/4" 19" 19 1/4" 19 1/2" 19 3/4" 20" 20 1/4" 20 1/2" 20 3/4" 21" 21 1/4" 21 1/2" 21 3/4" 22" 22 1/4" 22 1/2" 22 3/4" 23" 23 1/4" 23 1/2" 23 3/4" 24" 24 1/4" 24 1/2" 24 3/4" 25" 25 1/4" 25 1/2" 25 3/4" 26" 26 1/4" 26 1/2" 26 3/4" 27" 27 1/4" 27 1/2" 27 3/4" 28" 28 1/4" 28 1/2" 28 3/4" 29" 29 1/4" 29 1/2" 29 3/4" 30" 30 1/4" 30 1/2" 30 3/4" 31" 31 1/4" 31 1/2" 31 3/4" 32" 32 1/4" 32 1/2" 32 3/4" 33" 33 1/4" 33 1/2" 33 3/4" 34" 34 1/4" 34 1/2" 34 3/4" 35" 35 1/4" 35 1/2" 35 3/4" 36" 36 1/4" 36 1/2" 36 3/4" 37" 37 1/4" 37 1/2" 37 3/4" 38" 38 1/4" 38 1/2" 38 3/4" 39" 39 1/4" 39 1/2" 39 3/4" 40" 40 1/4" 40 1/2" 40 3/4" 41" 41 1/4" 41 1/2" 41 3/4" 42" 42 1/4" 42 1/2" 42 3/4" 43" 43 1/4" 43 1/2" 43 3/4" 44" 44 1/4" 44 1/2" 44 3/4" 45" 45 1/4" 45 1/2" 45 3/4" 46" 46 1/4" 46 1/2" 46 3/4" 47" 47 1/4" 47 1/2" 47 3/4" 48" 48 1/4" 48 1/2" 48 3/4" 49" 49 1/4" 49 1/2" 49 3/4" 50" 50 1/4" 50 1/2" 50 3/4" 51" 51 1/4" 51 1/2" 51 3/4" 52" 52 1/4" 52 1/2" 52 3/4" 53" 53 1/4" 53 1/2" 53 3/4" 54" 54 1/4" 54 1/2" 54 3/4" 55" 55 1/4" 55 1/2" 55 3/4" 56" 56 1/4" 56 1/2" 56 3/4" 57" 57 1/4" 57 1/2" 57 3/4" 58" 58 1/4" 58 1/2" 58 3/4" 59" 59 1/4" 59 1/2" 59 3/4" 60" 60 1/4" 60 1/2" 60 3/4" 61" 61 1/4" 61 1/2" 61 3/4" 62" 62 1/4" 62 1/2" 62 3/4" 63" 63 1/4" 63 1/2" 63 3/4" 64" 64 1/4" 64 1/2" 64 3/4" 65" 65 1/4" 65 1/2" 65 3/4" 66" 66 1/4" 66 1/2" 66 3/4" 67" 67 1/4" 67 1/2" 67 3/4" 68" 68 1/4" 68 1/2" 68 3/4" 69" 69 1/4" 69 1/2" 69 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Notes:

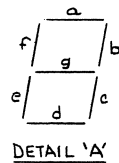
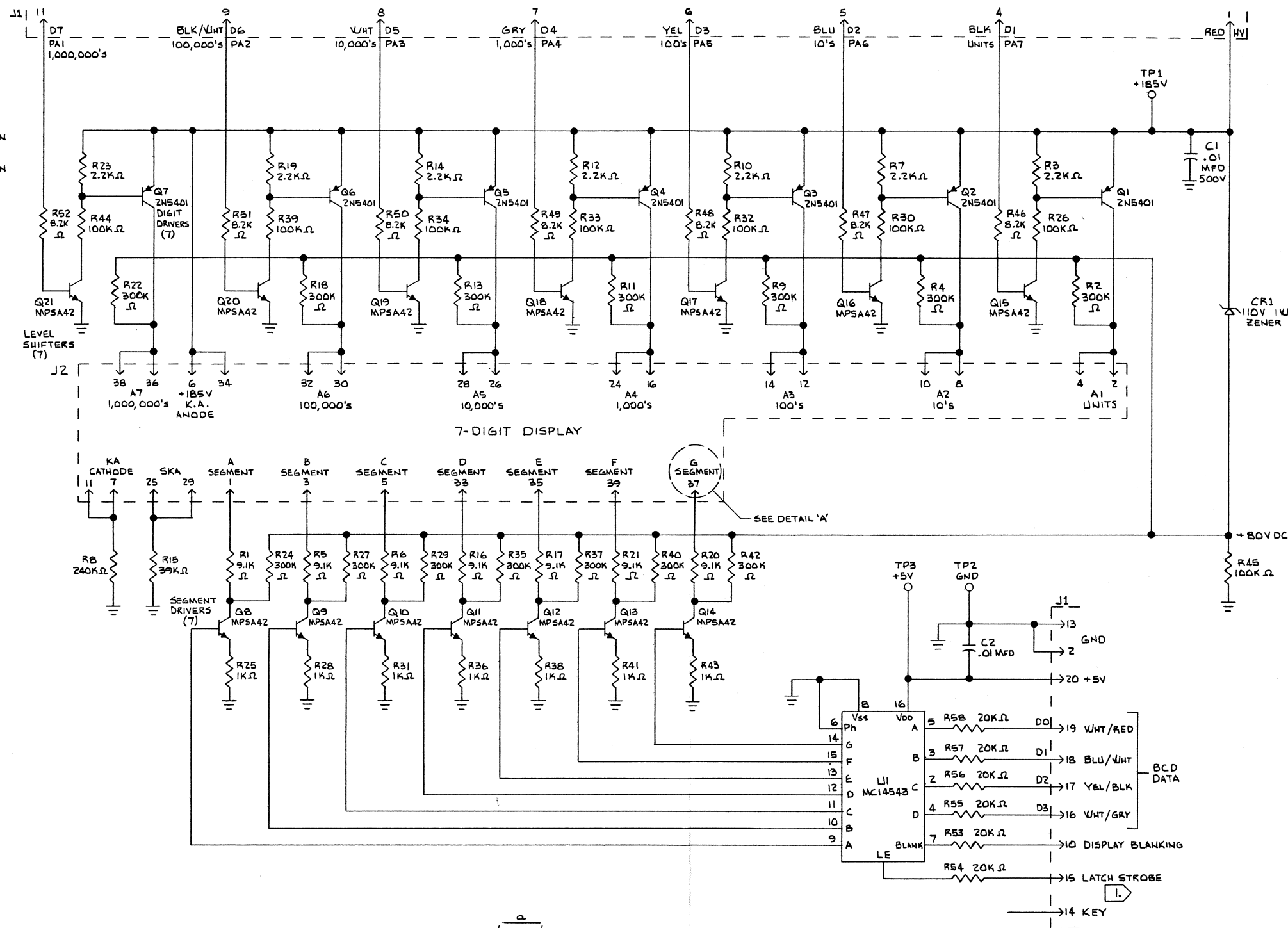
1.	PIN IS	WIRE COLOR
PLAYER # 1	BLK/WHT	
PLAYER # 2	OR6/BLU	
PLAYER # 3	RED/YEL	
PLAYER # 4	BRN/OR6	
HATCH/BALL	RED/BLACK	

2. LAST 'C' NUMBER USED C2
 LAST 'CR' NUMBER USED CR1
 LAST 'J' NUMBER USED J2
 LAST 'Q' NUMBER USED Q21
 LAST 'R' NUMBER USED R58
 LAST 'TP' NUMBER USED TP3
 LAST 'U' NUMBER USED U1

3. ON P.C. BOARD LEGEND;

NOMENCLATURE DD IS THE ABBREVIATION FOR DIGIT DRIVER.

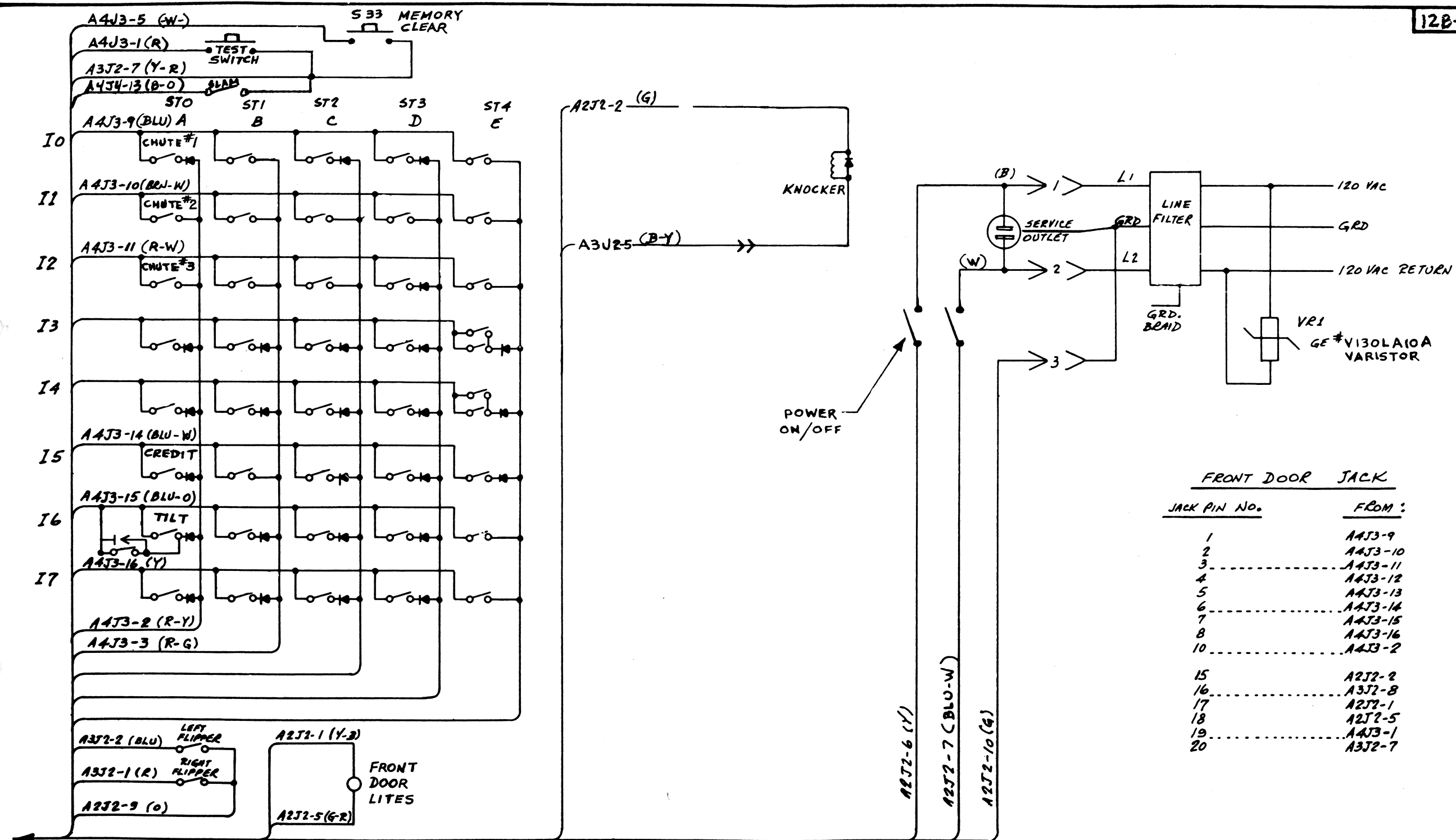
NOMENCLATURE LS IS THE ABBREVIATION FOR LEVEL SHIFTER.



REVISIONS				
SYM	DESCRIPTION	DFT DATE	CHK DATE	APPD DATE
A	ISSUED, E.I. 00111	J.S.	11/14/79	J.S.
B	DWG. CHANGE E.I. 00123	J.S.	11/14/79	J.S.
C	INSTITUTE NEW P.V. SYSTEM, E.I. 00655	J.S.	11/14/79	J.S.

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NAME SCHEMATIC, 7-DIGIT DISPLAY P.C. BOARD		PART NO. 340-645-S		REV. C		DWG. D		SHEET 1 OF 1	

12B-432-S-121



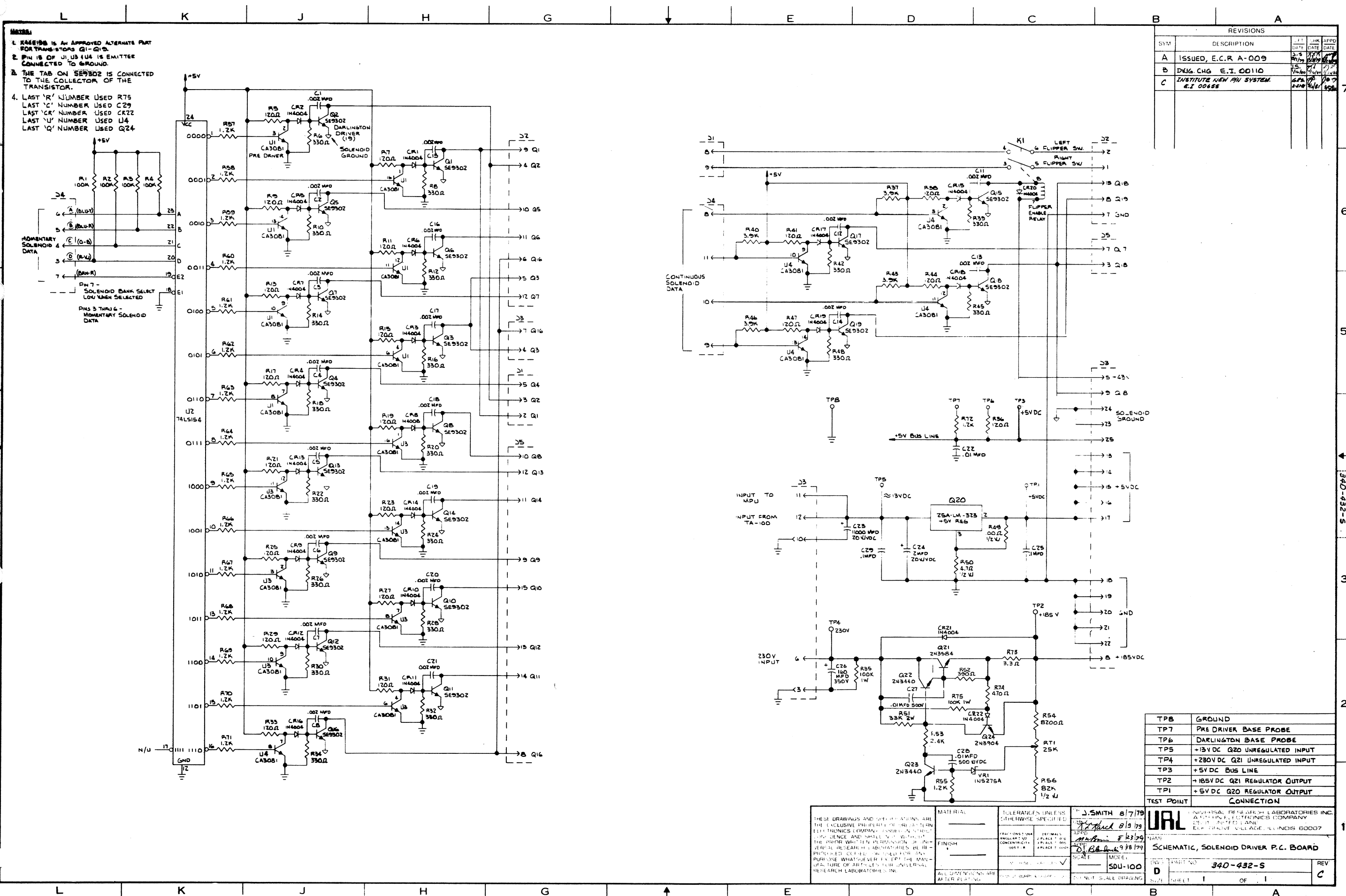
N/U = NOT USED
ALL DIODES ARE IN-4004

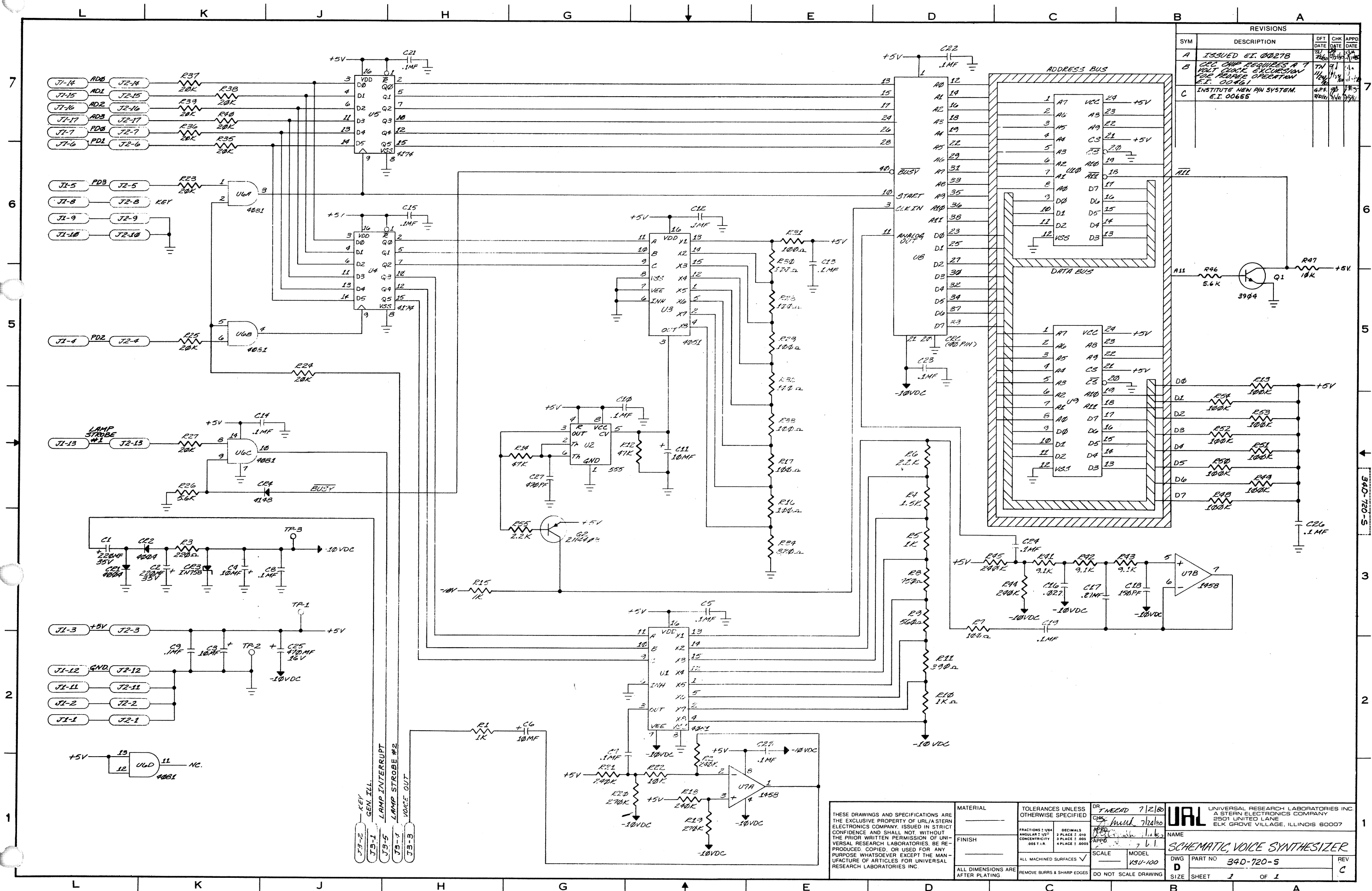
ISSUE	CHANGE	DATE

12B-432-121-1

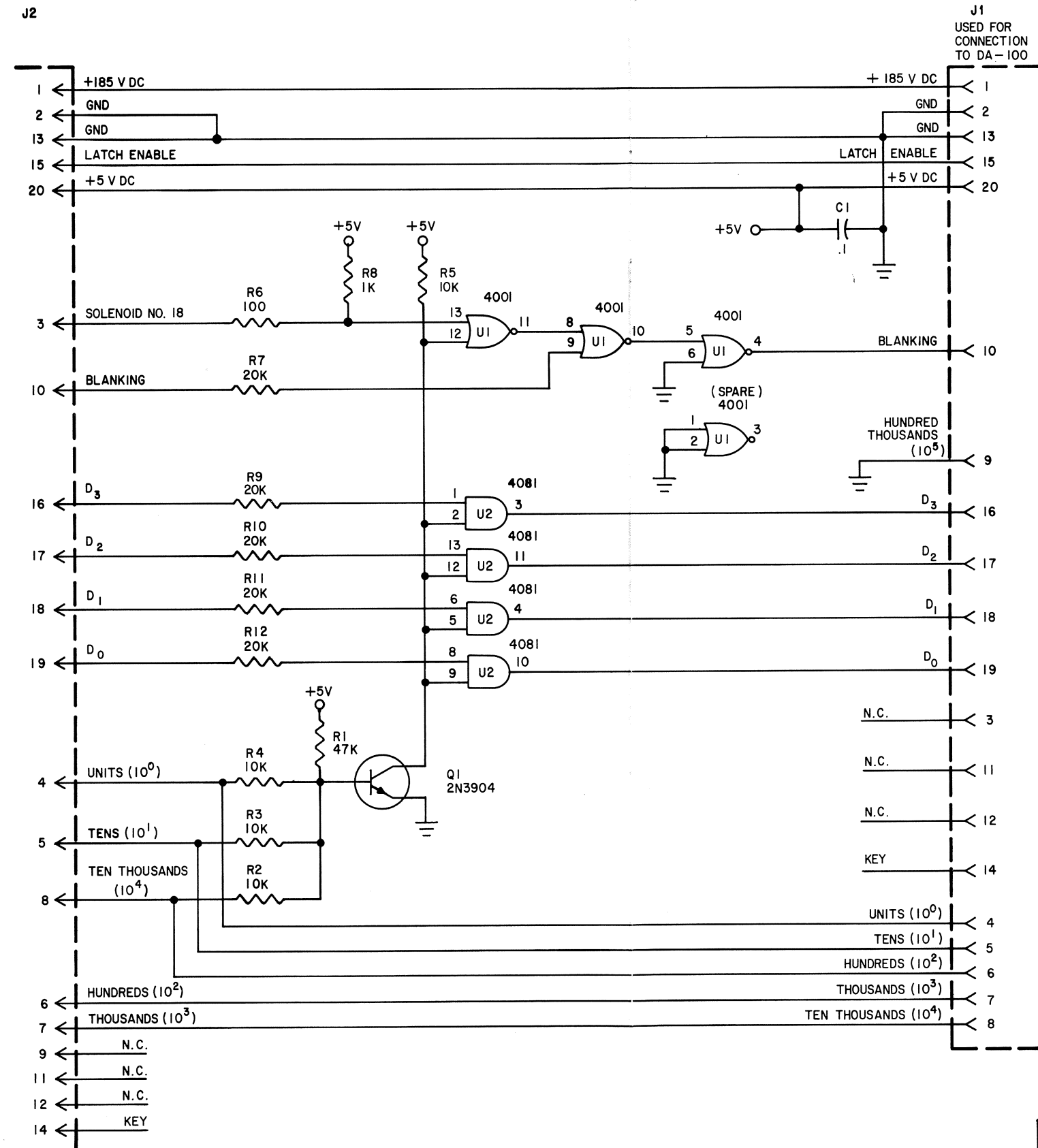
SHEET NO. 100M AGEPROOF

STERN ELECTRONICS INC.		
1725 DIVERSEY BLVD. CHICAGO 90614		
CABINET AND FRONT DOOR WIRING		
FOR STANDARD		
DRN. C.W.	DATE 10-16-79	AMT. 24
MAT. 24	FIN. 24	APPR.





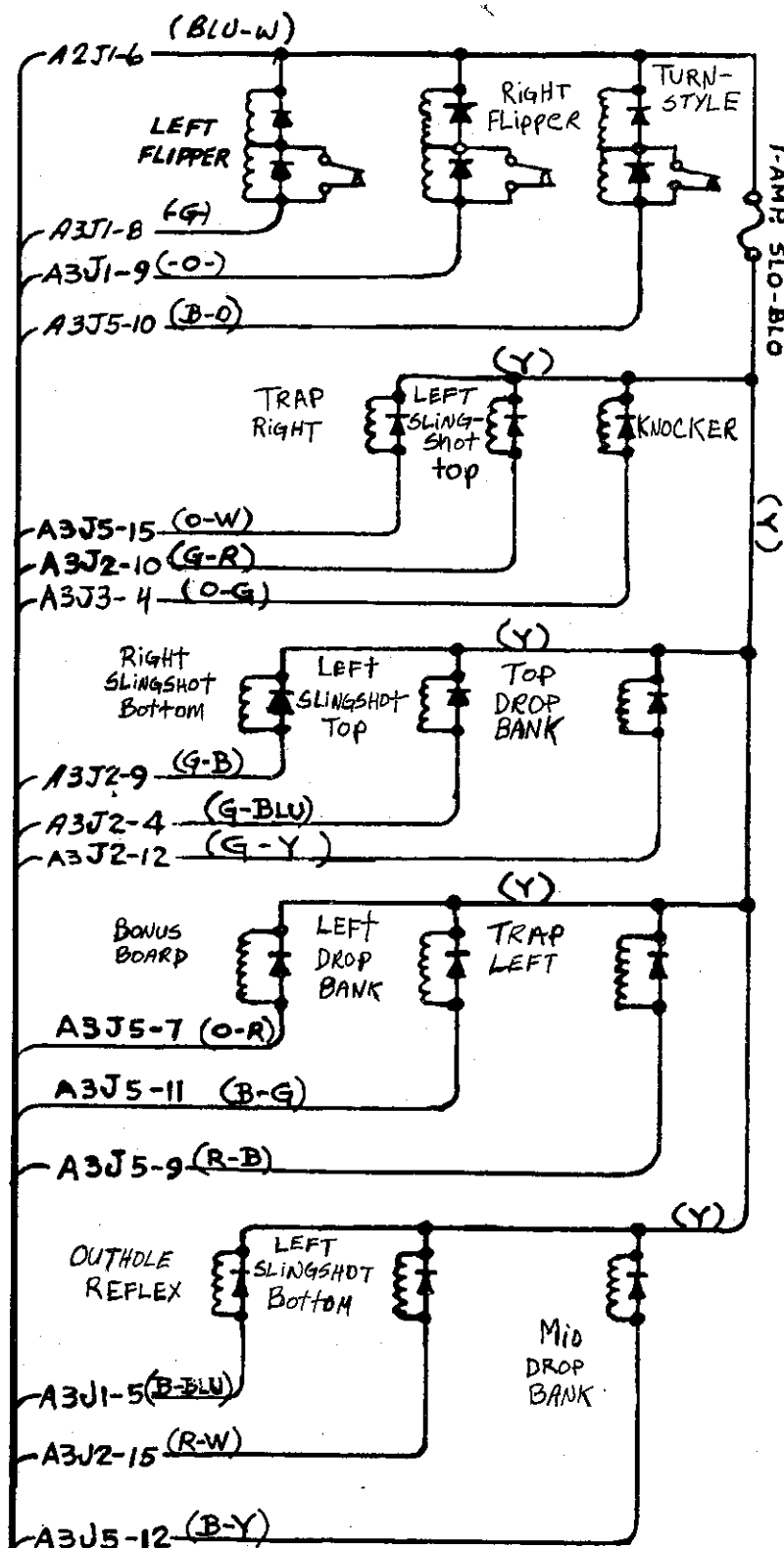
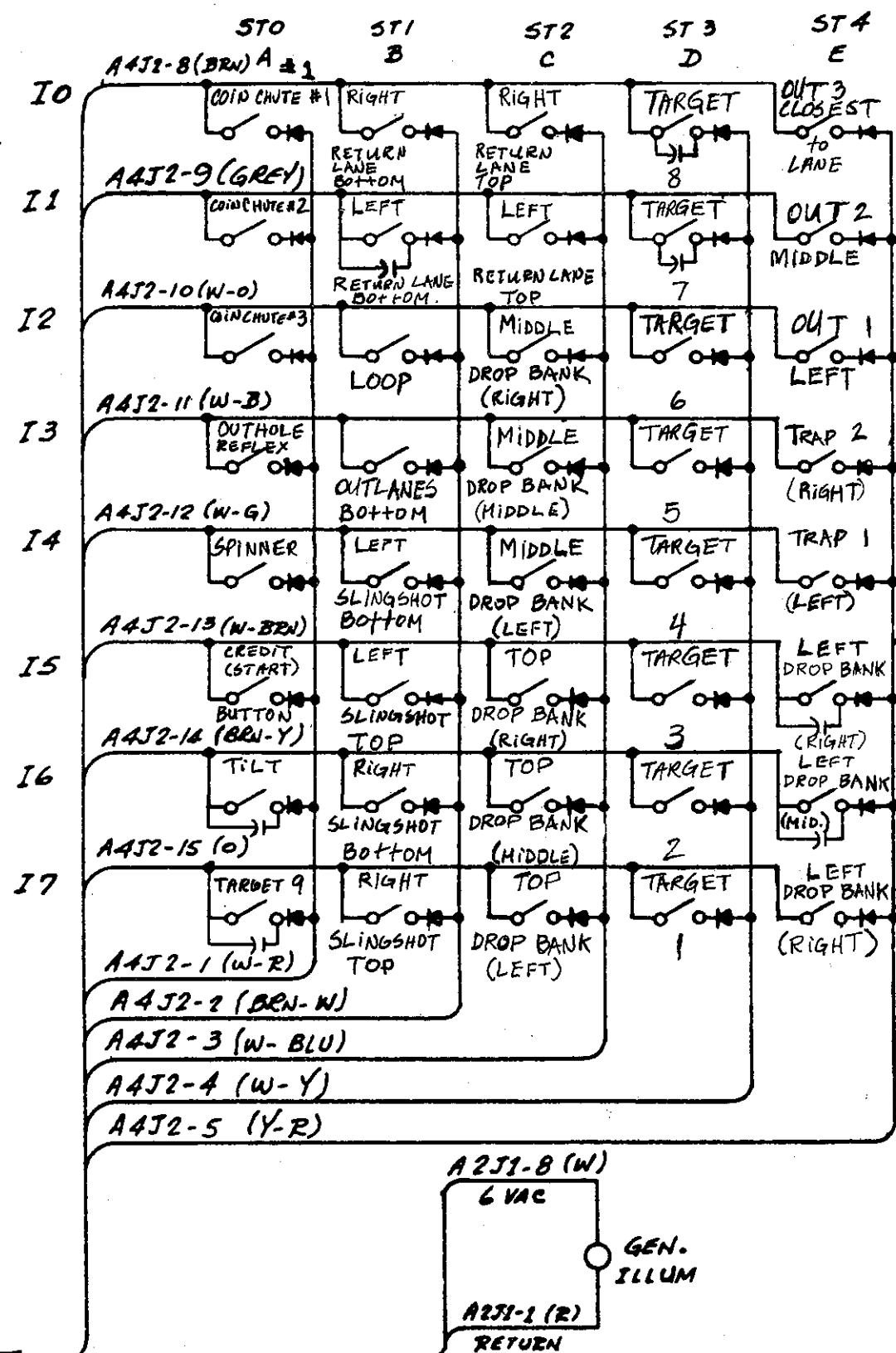
REVISIONS				
SYM	DESCRIPTION	DFT DATE	CHK DATE	APPD DATE
A	ISSUED E.I. 00613	6/25/81	7/1/81	7/1/81



U2	4081	14	7
U1	4001	14	7
CHIP	TYPE	+5 V	GROUND
POWER CONNECTIONS			

DR. G.P. Shick	2/3/81	UNIVERSAL RESEARCH LABORATORIES INC. A SUBSIDIARY OF STERN ELECTRONICS 700 CHASE AVENUE ELK GROVE VILLAGE, ILLINOIS 60007	NAME SCHEMATIC, BONUS / TIMER CONTROL INTERFACE P.C. BOARD	DWG C SIZE SHEET 1 OF 1	REV. A
CHK. <i>[Signature]</i>	2/13/81				
APPD. <i>[Signature]</i>	2/13/81				
APPD. <i>[Signature]</i>	2/13/81				
MODEL BTI-100	PART NO. 34C-866-S				

34C-866-S
1 OF 1



R.O.W. = ROLL OVER WIRE
S.U. = STAND-UP TARGET
D.T. = DROP TARGET

PLAYFIELD
lightning

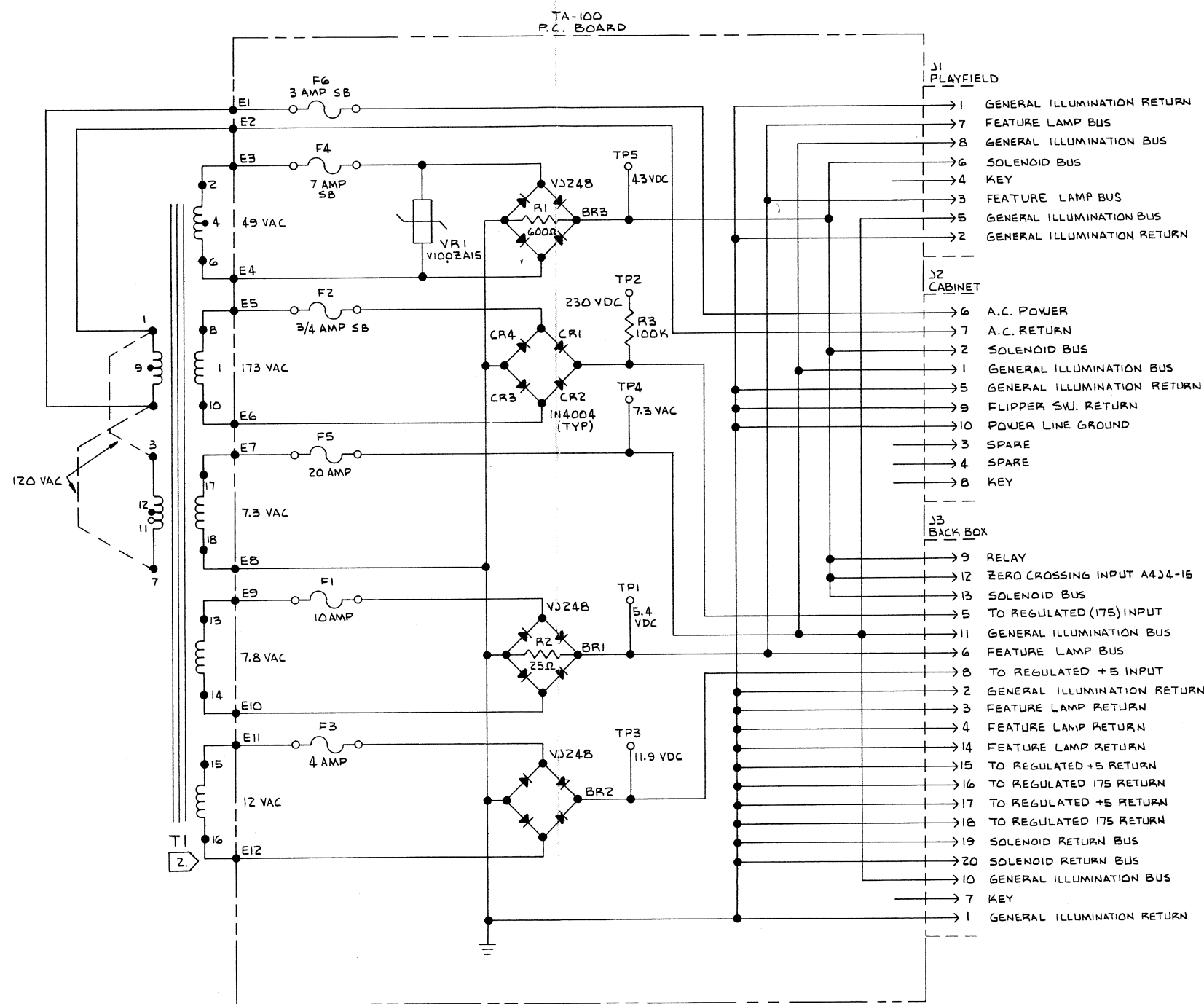
A2J5-7 (BLU) FEATURE LAMP BUS
A2J5-3 (BLU)

NOTES:

1. POWER LINE CONNECTIONS:

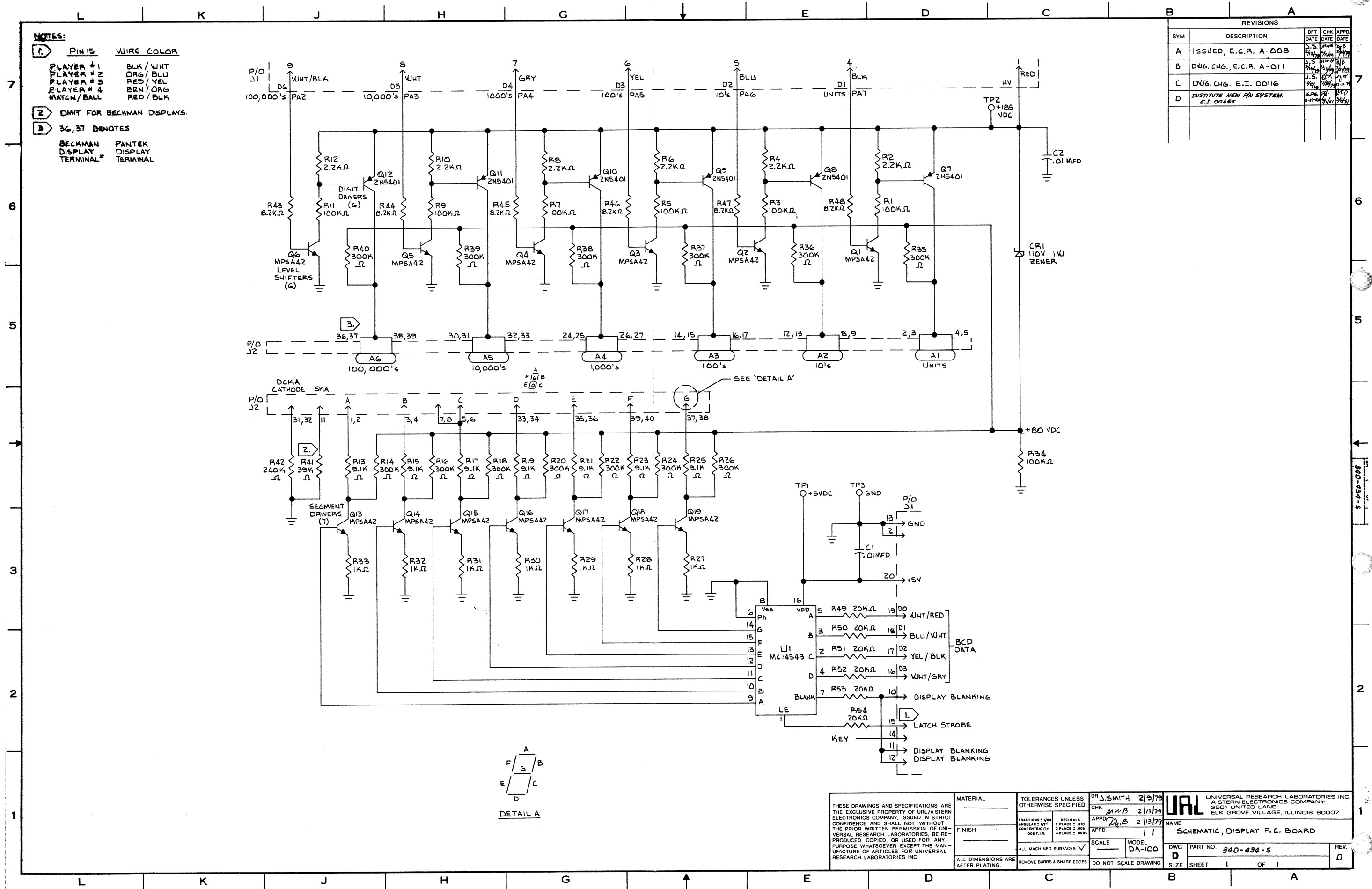
AC LINE VOLTAGE	STRAP TERMINALS	APPLY POWER TO TERMINALS
115	1 TO 3 AND 9 TO 11	1 AND 9
120	1 TO 3 AND 5 TO 7	1 AND 5
220	3 TO 5	1 AND 12
240	3 TO 5	1 AND 7

2. T1 IS NOT LOCATED ON PRINTED CIRCUIT BOARD.



REVISIONS				
SYM	DESCRIPTION	DATE	CHK	APPD
B	ISSUED, E.C.R. A-015	3/5/79	J.S.	J.S.
C	ADDED JUMPER BETWEEN J1 PIN 3 & 7 E.I. 00164	3/5/79	J.S.	J.S.
D	F4 WAS 5 AMP, CHANGED TO 7 AMP PER E.I. 00188	3/5/79	J.S.	J.S.
E	INSTITUTE NEW PIN SYSTEM E.I. 00688	3/5/79	J.S.	J.S.

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A1 INSERT

A2 TRANSFORMER

