

NASA CR-143825

SCHEMATICS

for

MAN-COMPUTER INTERACTIVE DATA
ACCESS SYSTEM (McIDAS)

Final Report on Contract NAS5-23296

BOOK 1

(NASA-CR-143825) SCHEMATICS FOR
MAN-COMPUTER INTERACTIVE DATA ACCESS SYSTEM
(MCIDAS), BOOK 1 Final Report (Wisconsin
Univ.) 198 p HC \$7.00

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Unclas
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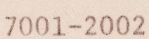
G3/60



REVISIONS			
LTR.	DESCRIPTION	DATE	APPROVED

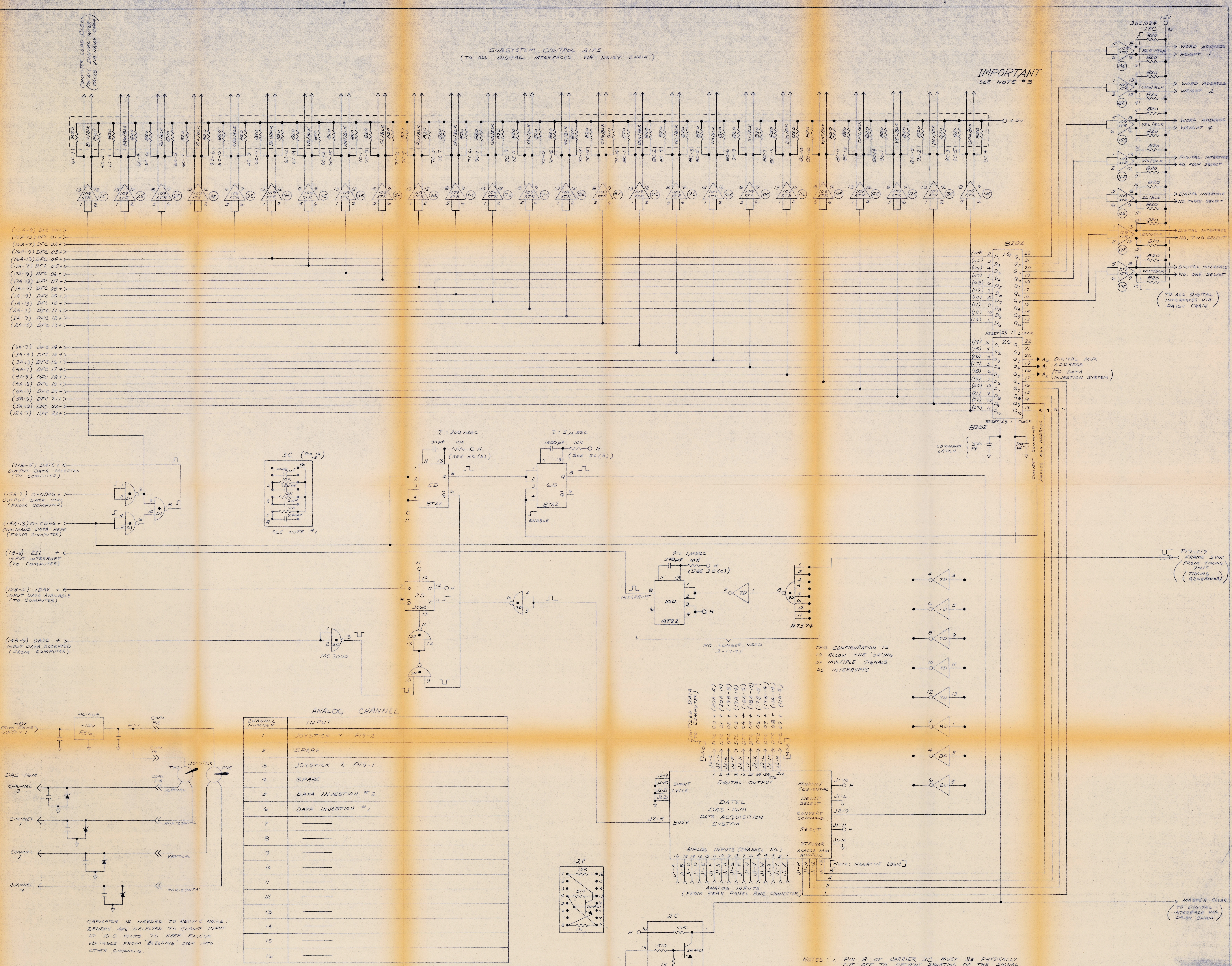
THE UNIVERSITY OF WISCONSIN			
SPACE SCIENCE & ENGINEERING CENTER			
MADISON, WISCONSIN			
TITLE			
McIDAS VIDEO CHAIN DRAWING LIST			
SCALE	None	DRAFTSMAN	DATE
		WBL	March 75
NEXT HIGHER ASSEMBLY		PRODUCT	CHECKER
		ASSURANCE	McIDAS Video Chain Drawing List
PROJECT NO.	SIZE	DRAWING	
7001	A	SHEET 1 OF 2	

	DRAWING NO.	SIZE	TITLE	DATE
REVISION	7001-2001	A	McIDAS Video Chain Drawing List	March 75
	7001-2002	D	McIDAS Video Chain Detailed Functional Block Diagram	March 75
	7001-2003	E	McIDAS Unit Interface	March 75
	7001-2004	E	Digital Interface Control	March 75
	7001-2005	E	Digital Interface Latch Detail	March 75
	7001-2006	E	Fast Storage	March 75
	7001-2007	D	DR-10A Interface	March 75
	7001-2008	D	DR-10A Disc Monitor	March 75
	7001-2009	E	Enhancement Table (2 Drawing Set)	March 75
	7001-2010	D	Analog Distributor	March 75
DRAWING NO 7001-2001	7001-2011	D	Address Multiplexer	March 75
	7001-2012	D	Digital Multiplexer	March 75
	7001-2013	D	Video Sequencer	March 75
	7001-2014	D	Timing Generator	March 75
	7001-2015	E	Digital Cursor	March 75
SHEET 2 of 2	7001-2016	E	Level Discriminator	March 75
	7001-2017	D	Subsystem Interconnection Diagram Cabinet #1	March 75
	7001-2018	D	Subsystem Interconnection Diagram Cabinet #2	March 75
	7001-2019	D	Data Injestion System	March 75
	7001-2020	D	Data Injestion System Data Package Module	March 75

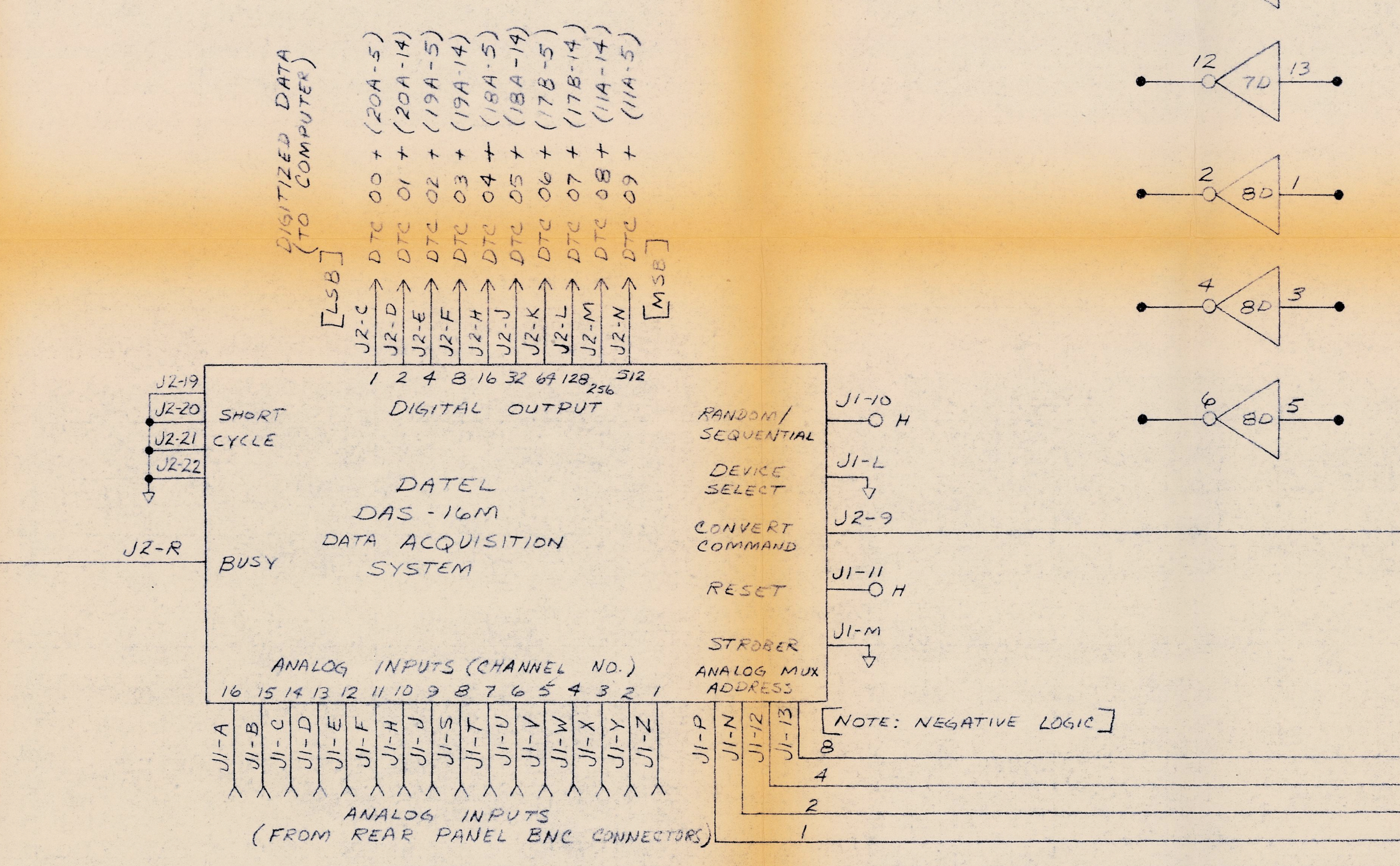


SUBSYSTEM CONTROL BITS (TO ALL DIGITAL INTERFACES VIA DAISY CHAIN)

IMPORTANT
SEE NOTE #3

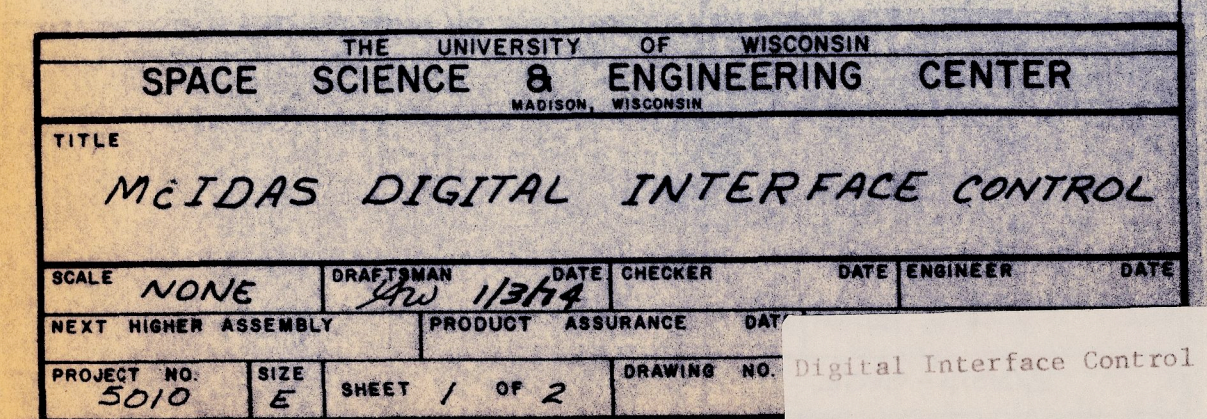
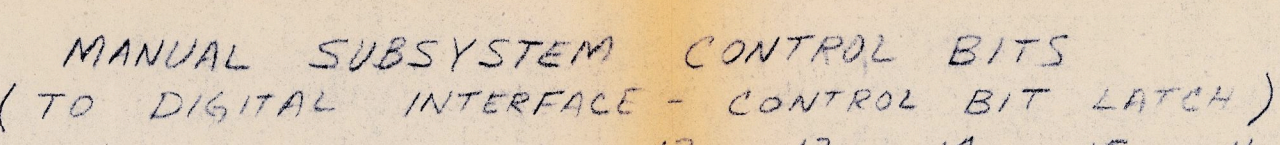
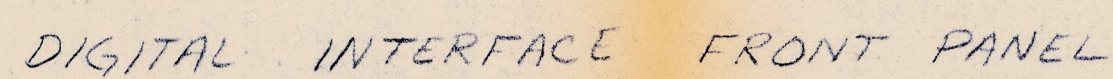


CHANNEL NUMBER	INPUT
1	JOYSTICK Y P19-2
2	SPARE
3	JOYSTICK X P19-1
4	SPARE
5	DATA INJECTION #2
6	DATA INJECTION #1
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	



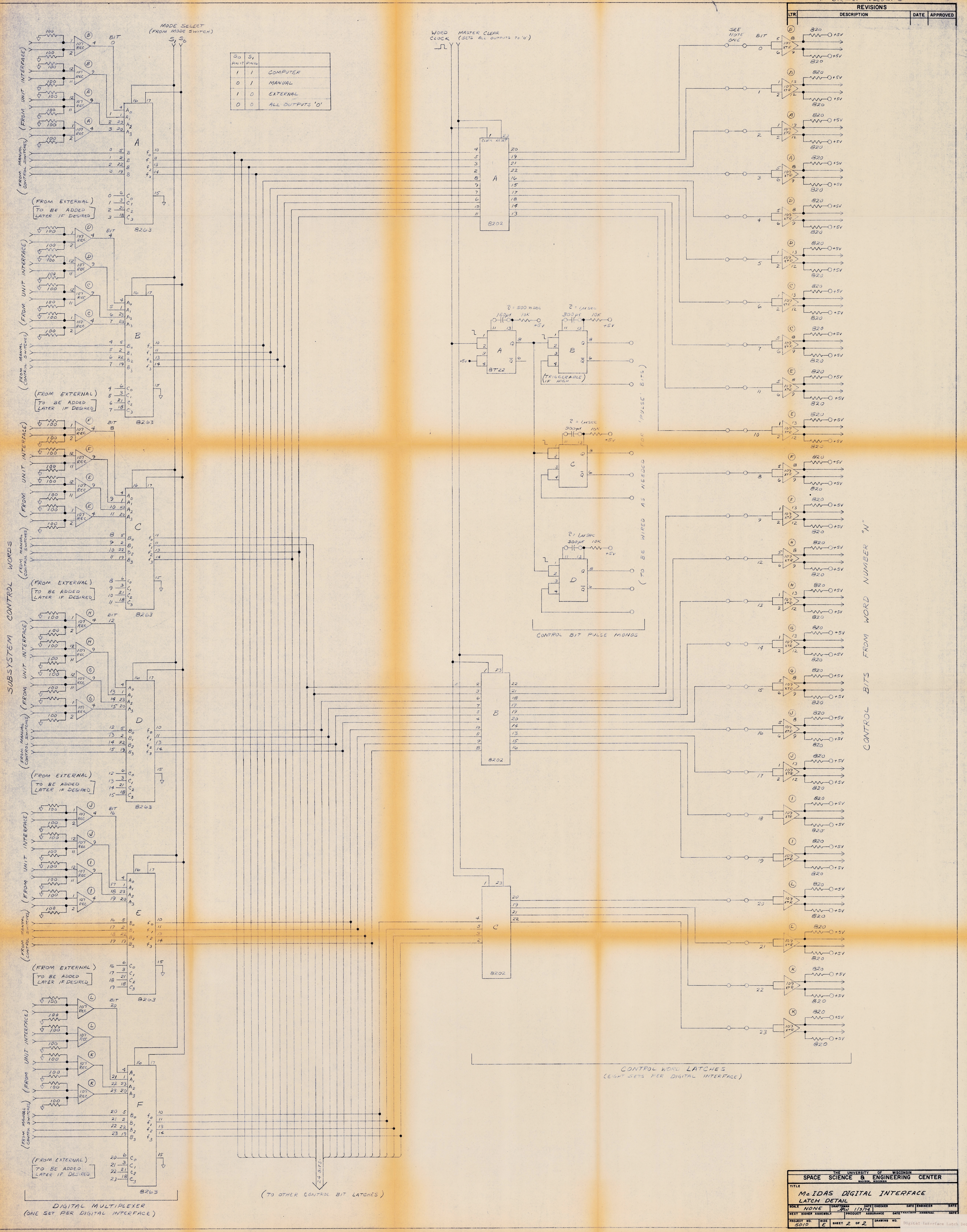
- NOTES:
- PIN 8 OF CARRIER 3C MUST BE PHYSICALLY CUT OFF TO PREVENT SHORTING OF THE SIGNAL TO GROUND.
 - COMPUTER MUST WAIT UNTIL IT RECEIVES AN IDAV+ SIGNAL AFTER IT SENDS A CONVERT COMMAND BEFORE IT SENDS A SECOND CONVERT COMMAND.
 - PULL-UP RESISTORS ARE 16 PIN DIP PACKAGES LOCATED AT 6C, 7C, 8C & 9C. PACKAGE IS THE 36C1024 WHICH CONTAIN 1K OHM RESISTORS AND NOT THE 820 OHM SHOWN. THE CORRECT VALUE WILL BE SUBSTITUTED WHEN THEY BECOME AVAILABLE.

THE UNIVERSITY OF WISCONSIN SPACE SCIENCE & ENGINEERING CENTER			
TITLE McIDAS UNIT INTERFACE			
SCALE NONE	DRAWN JAW 1/8/76	CHECKED DATE	DATE
NEXT HIGHER ASSEMBLY 3010		PRODUCT ASSURANCE DATE PROJECT APPROVAL	
PROJECT NO. 3010	SHEET 1	DRAWING NO.	

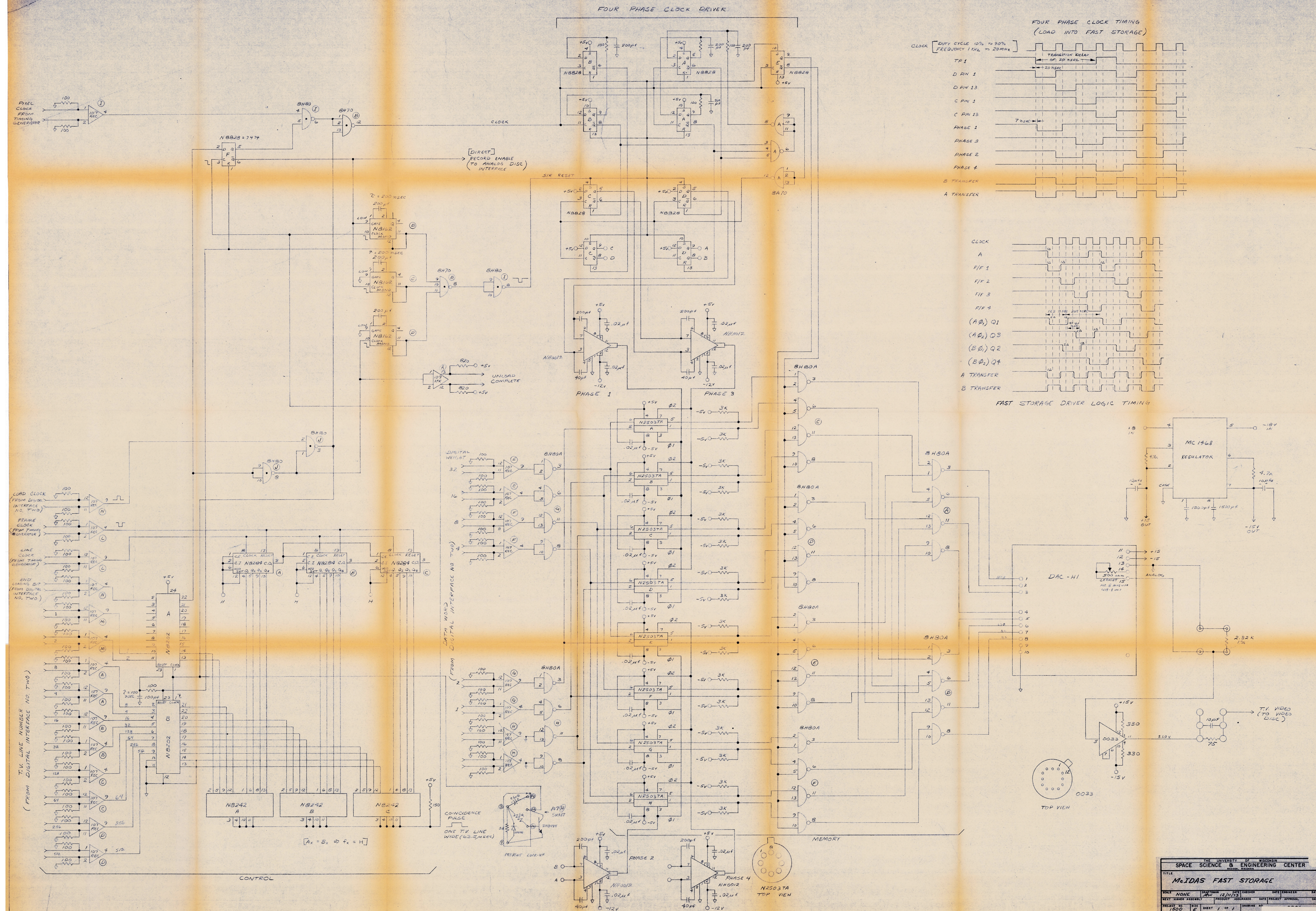


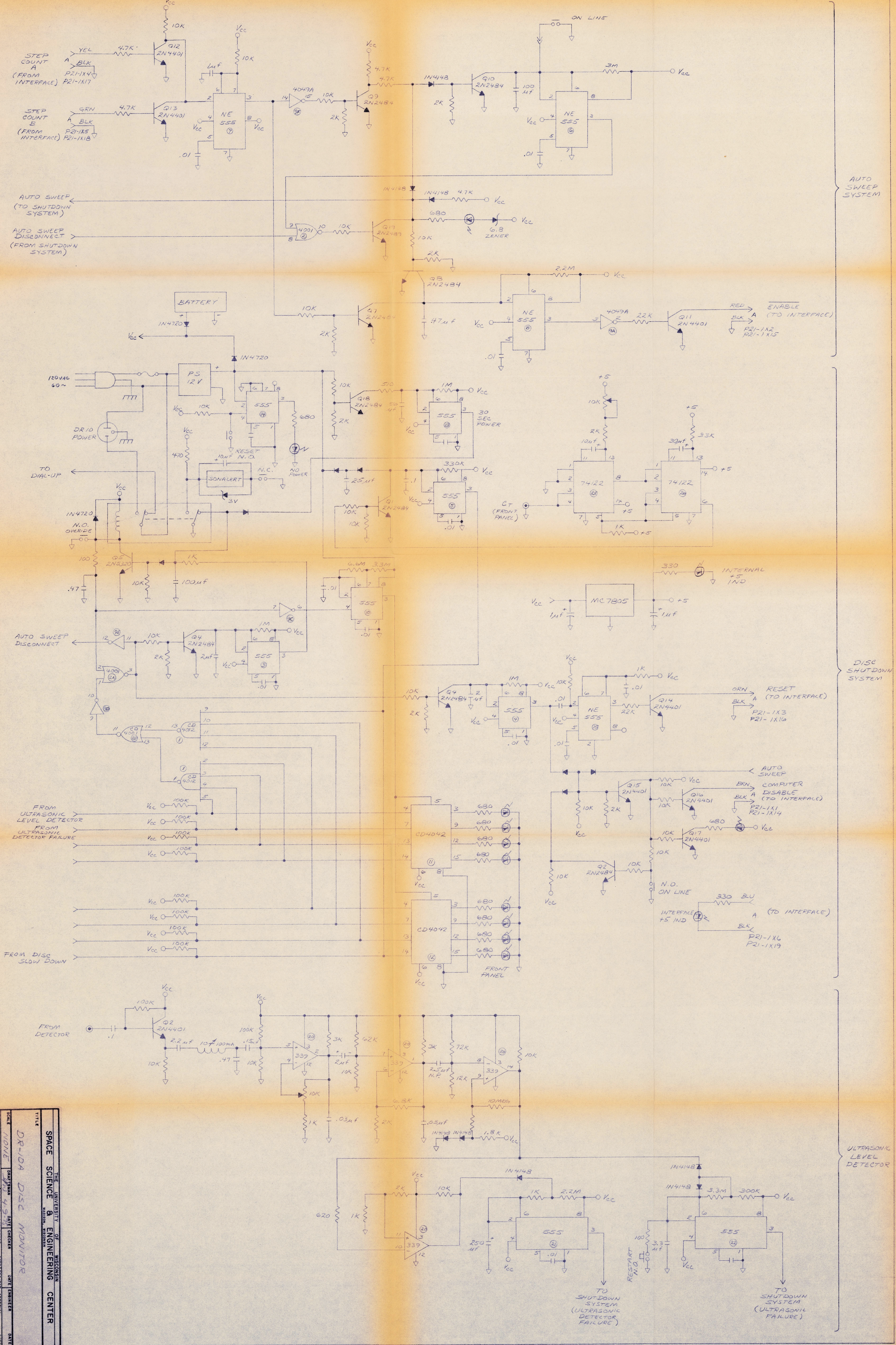
REVISIONS	DATE	APPROVED
DESCRIPTION		

S ₀	S ₁	FUNCTION
1	1	COMPUTER
0	1	MANUAL
1	0	EXTERNAL
0	0	ALL OUTPUTS '0'



THE UNIVERSITY OF WISCONSIN SPACE SCIENCE & ENGINEERING CENTER			
TITLE MaIDAS DIGITAL INTERFACE LATCH DETAIL			
SCALE NONE	DRAWN BY JW	DATE CHECKED 11/3/74	DATE ENGINEERED DATE
NEXT DESIGN ASSEMBLY	PRODUCT ASSURANCE	DATE	DATE
PROJECT NO. 5010	SHEET 2	OF 2	DRAWING NO.





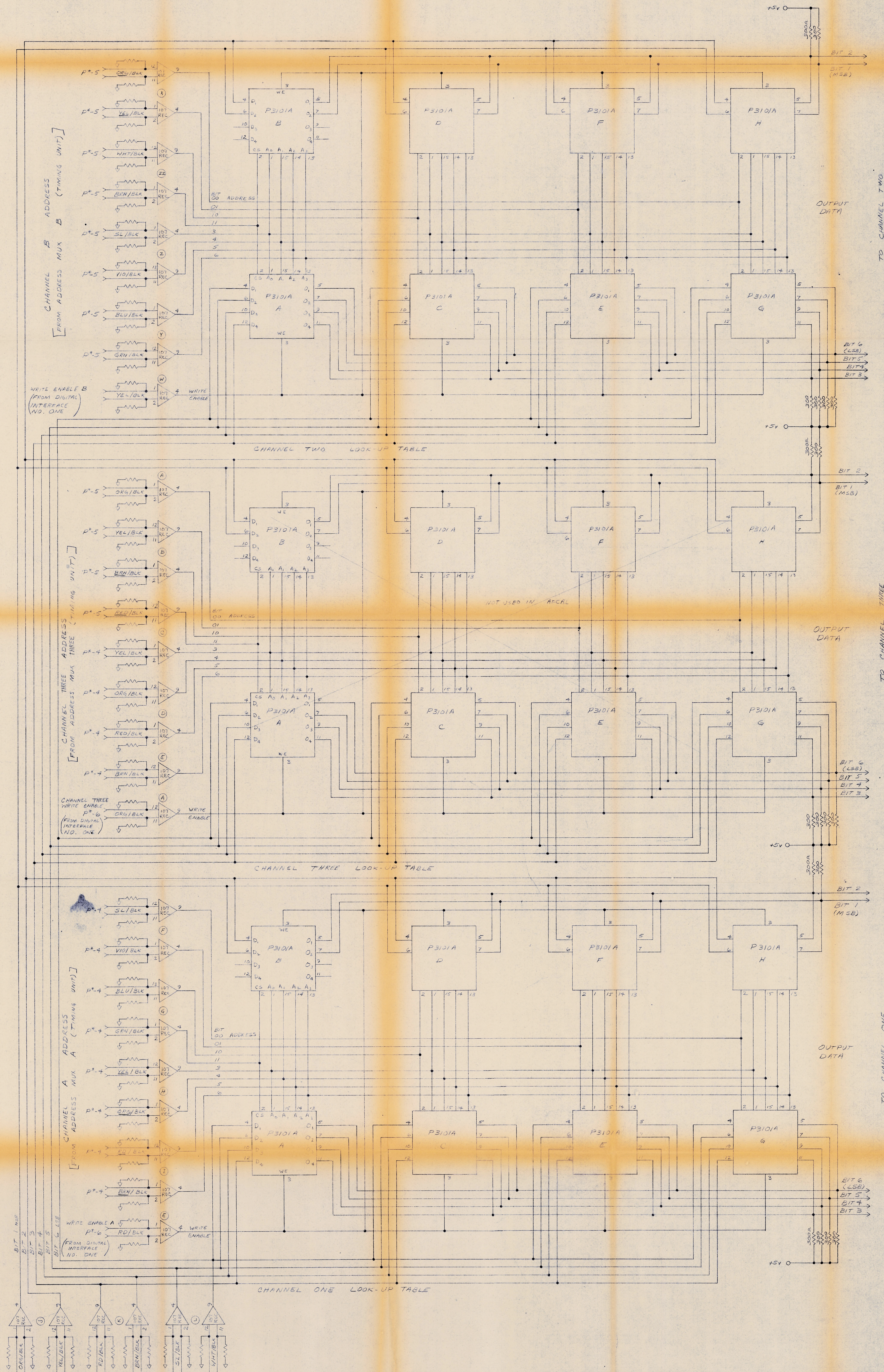
AUTO SWEEP SYSTEM

DISC SHUTDOWN SYSTEM

ULTRASONIC LEVEL DETECTOR

PROJECT NO.	1001-2008
SHEET	1 OF 1
DRAWING NO.	DR-10A Disc Monitor
DATE	10/1/70
DESIGNED BY	DR-10A
CHECKED BY	DR-10A
APPROVED BY	DR-10A
SCALE	1:1
NOTES	1. DR-10A DISC MONITOR
2. SPACE SCIENCE & ENGINEERING CENTER	
3. THE UNIVERSITY OF WISCONSIN	
4. MADISON, WISCONSIN	

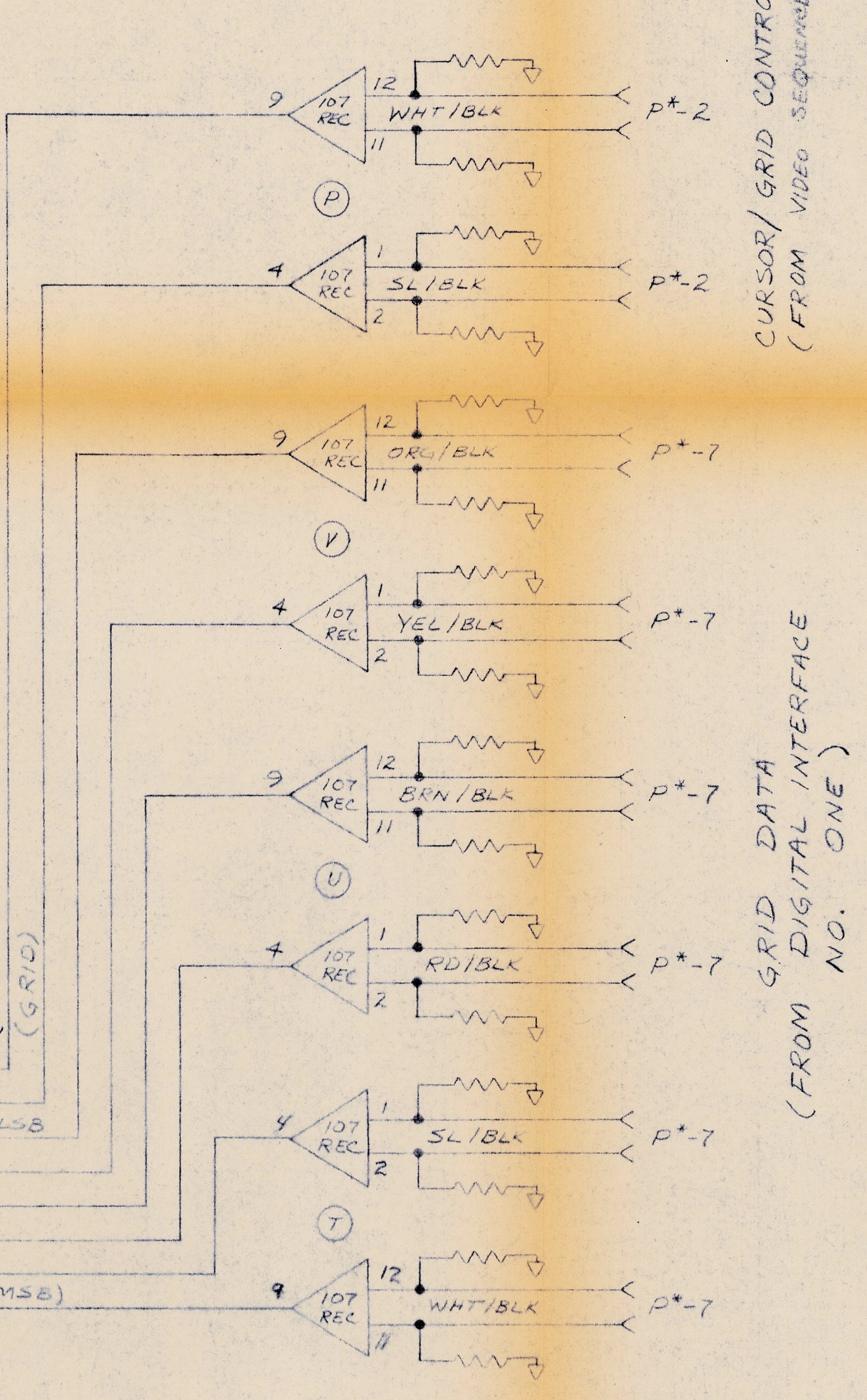
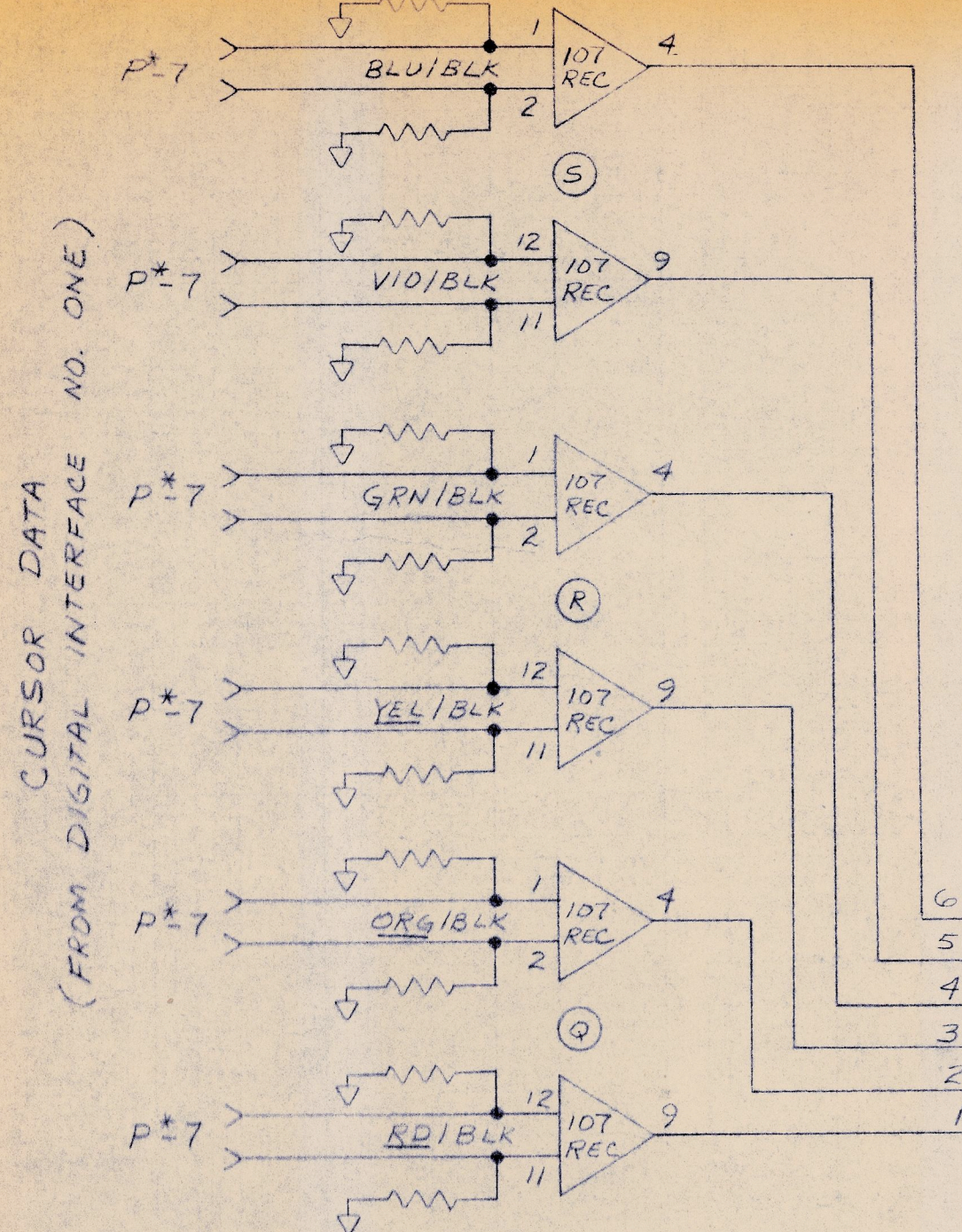
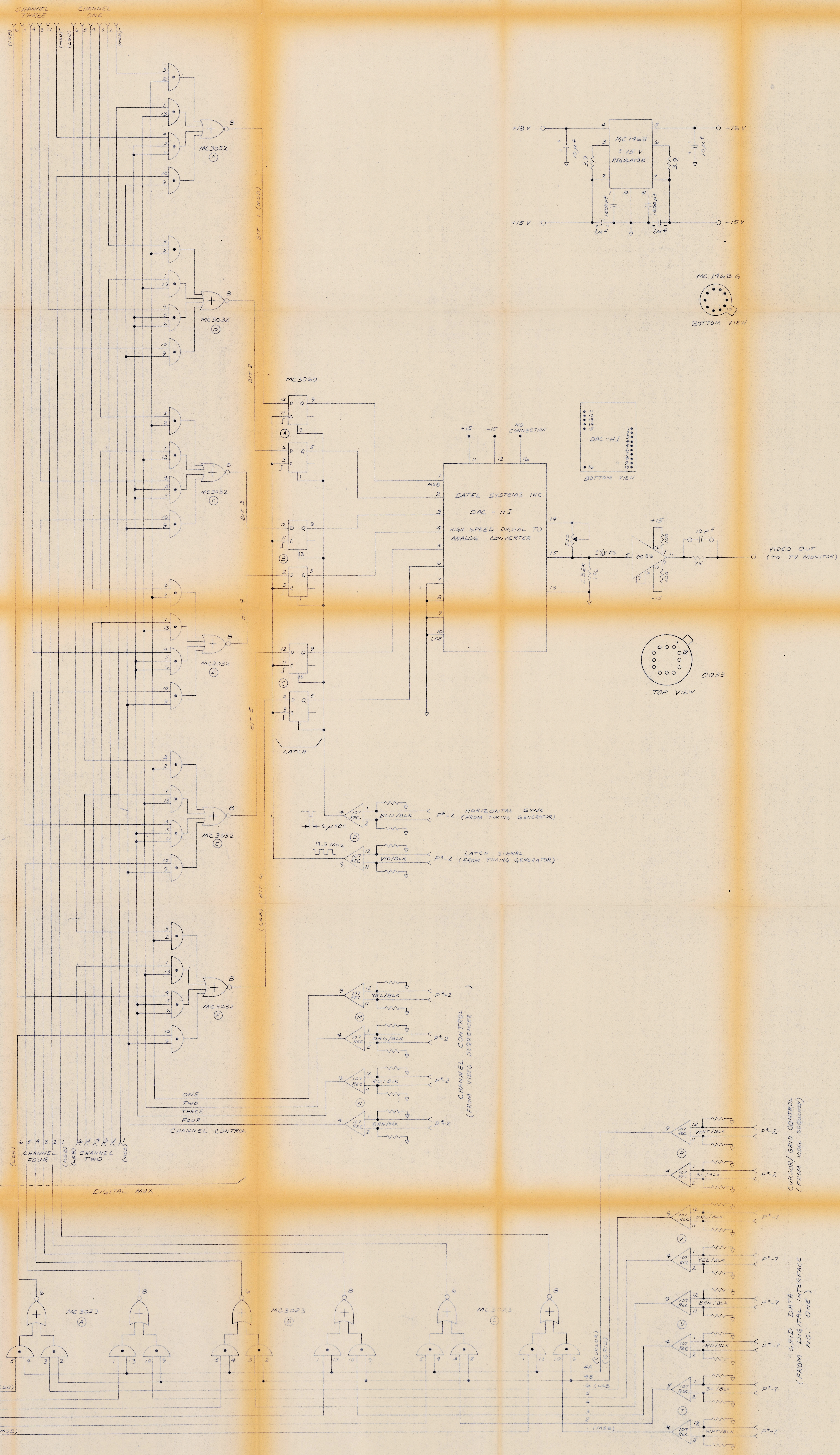
THIS SECTION NOT USED 3-18-75



NOTES
1. P1-4 THE + IMPLIES THE FOLLOWING:
6 IMPLIES RED
5 IMPLIES GREEN
4 IMPLIES BLUE
2. ALL UNMARKED RESISTORS HAVE A VALUE OF 100Ω

INPUT ENHANCEMENT DATA (FROM DIGITAL INTERFACE NO. ONE)

REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED



THE UNIVERSITY OF WISCONSIN SPACE SCIENCE & ENGINEERING CENTER MADISON, WISCONSIN			
TITLE McIDAS RED GREEN BLUE ENHANCEMENT TABLE			
SCALE NONE	DATE 10/21/72	DATE 10/21/72	DATE 10/21/72
NEXT REVIEW ASSEMBLY 1300	PRODUCT ASSURANCE 1300	DATE 10/21/72	DATE 10/21/72
PROJECT NO. 1300	SHEET 2 OF 2	GRAPHIC NO. 1300	REVISIONS (Following Set)