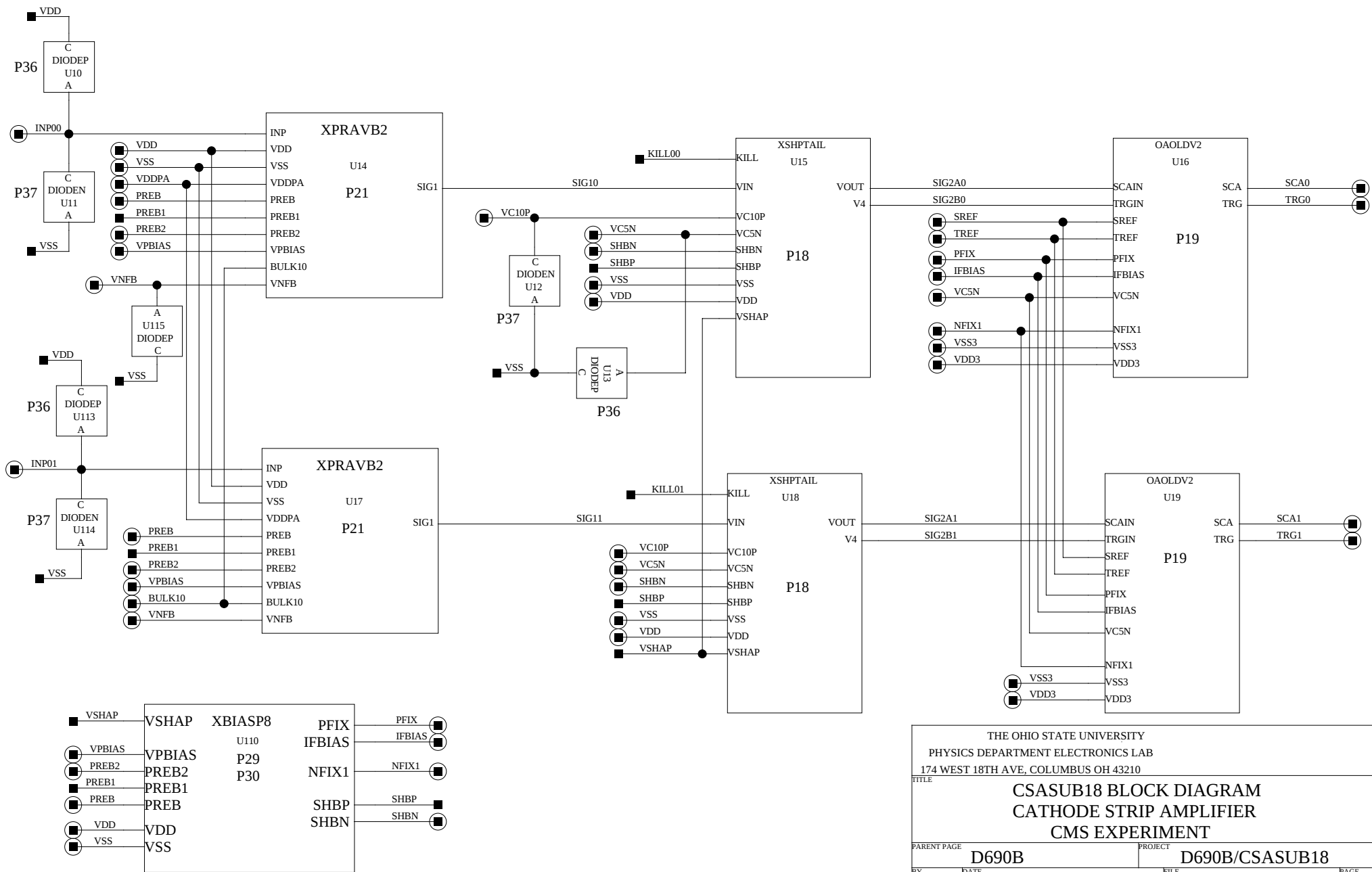
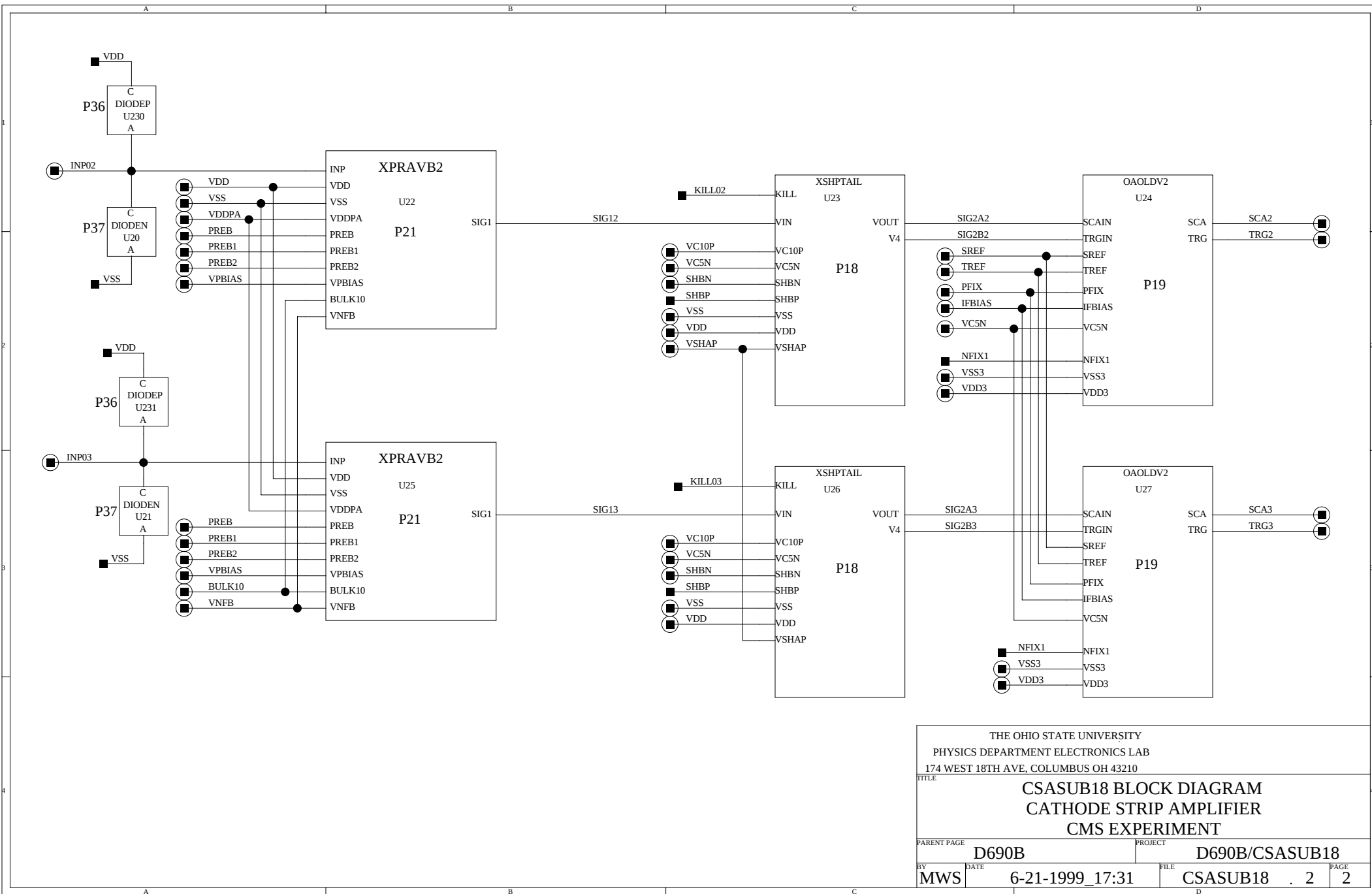
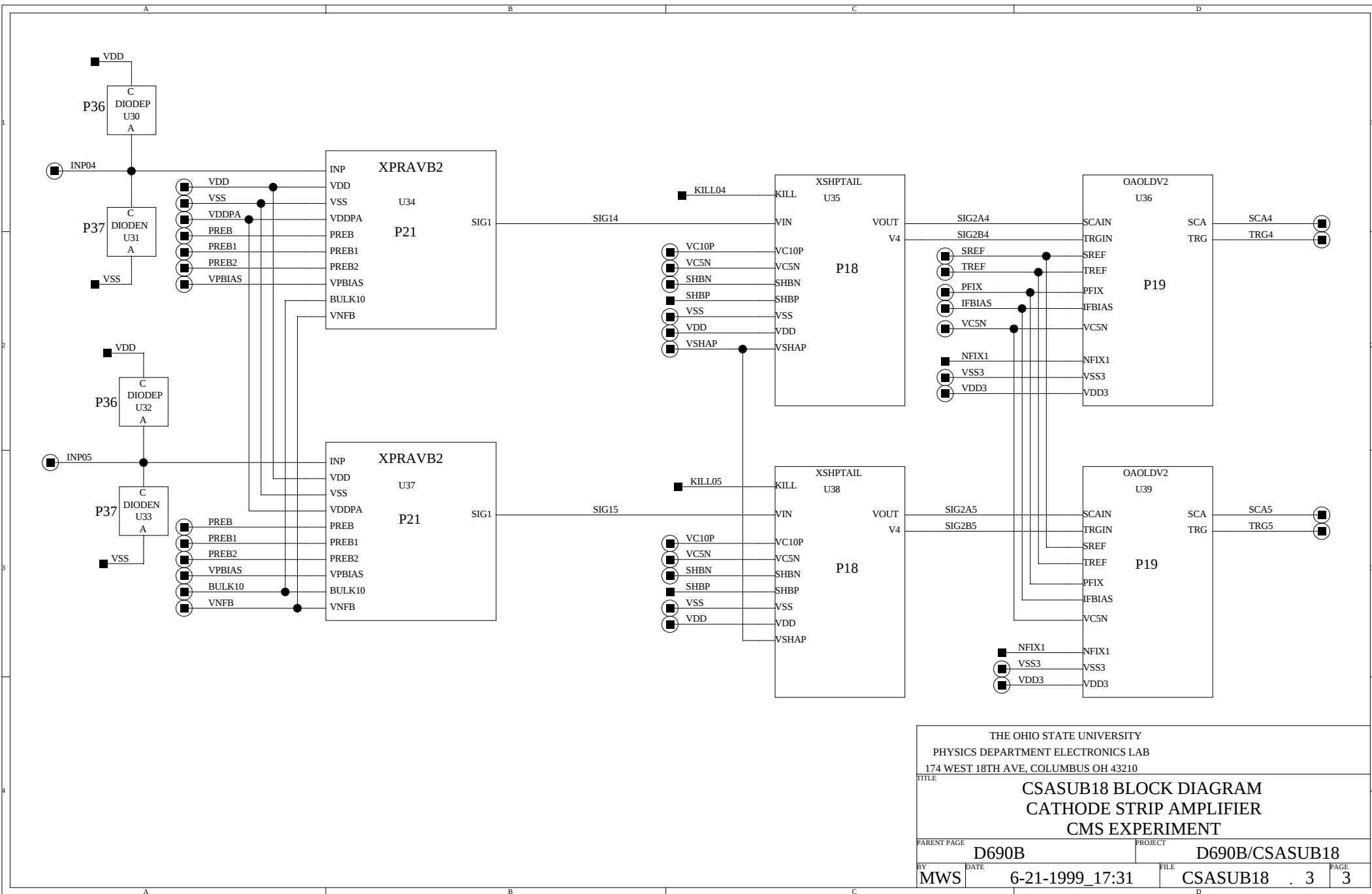
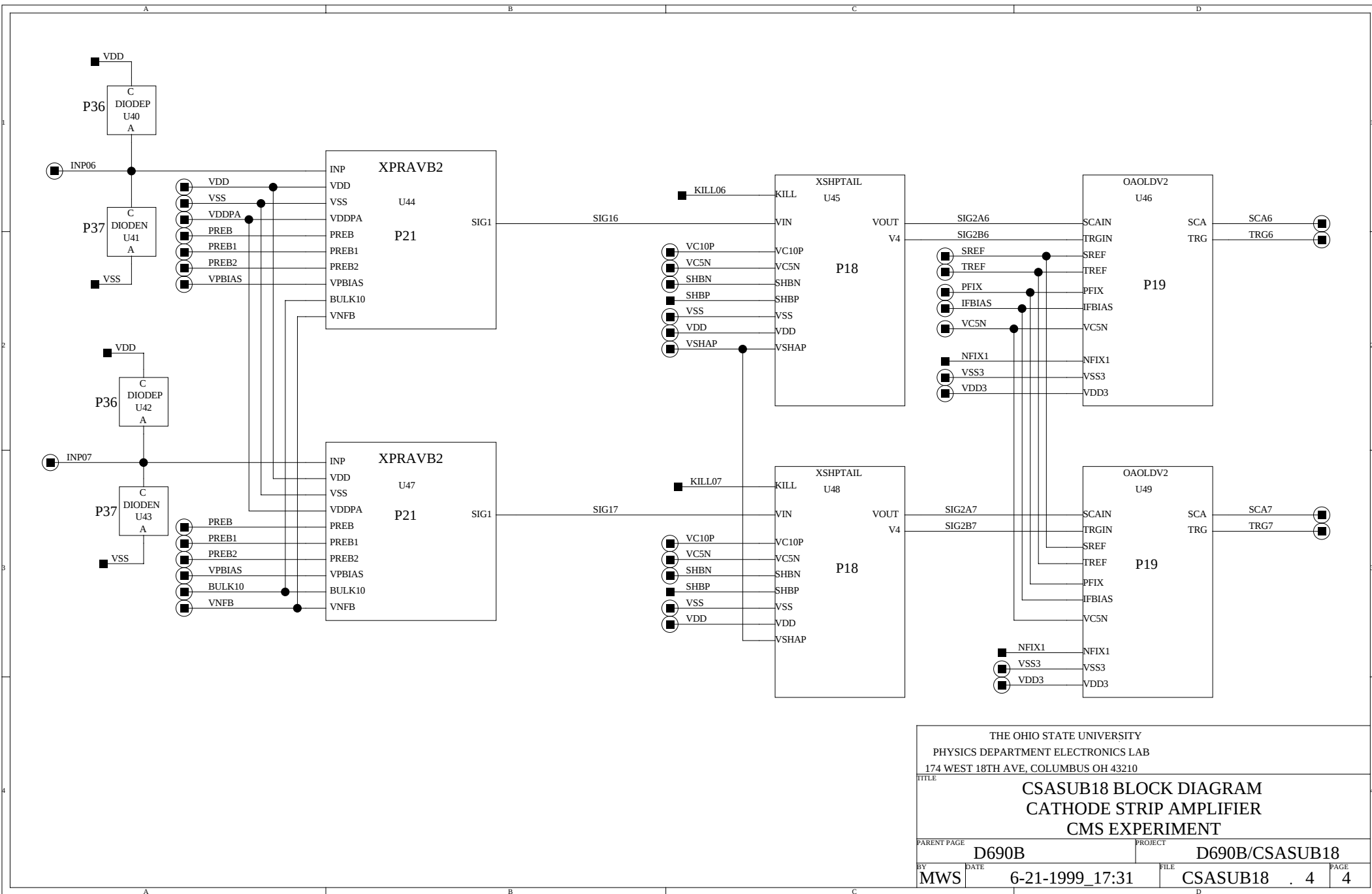
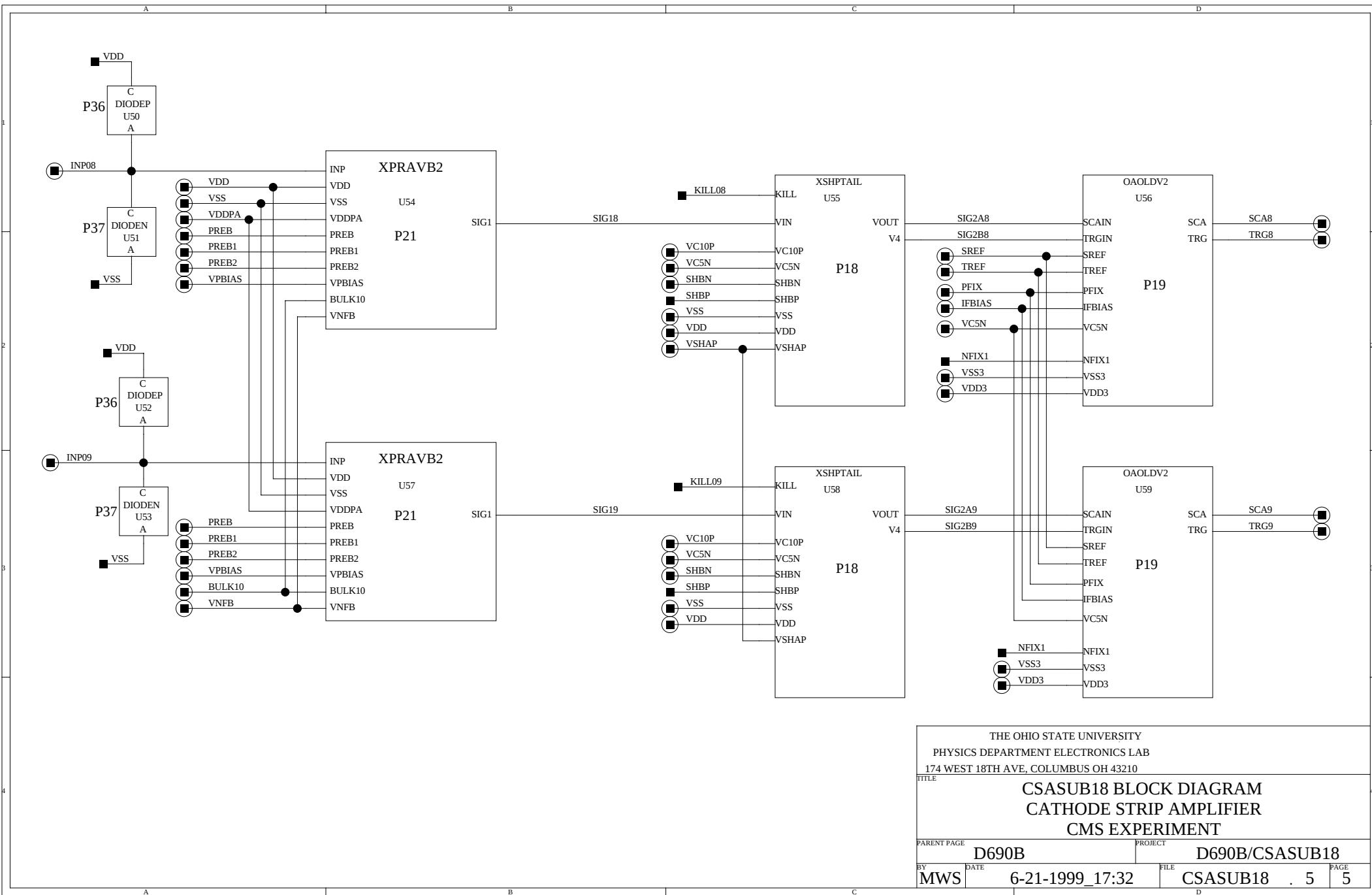


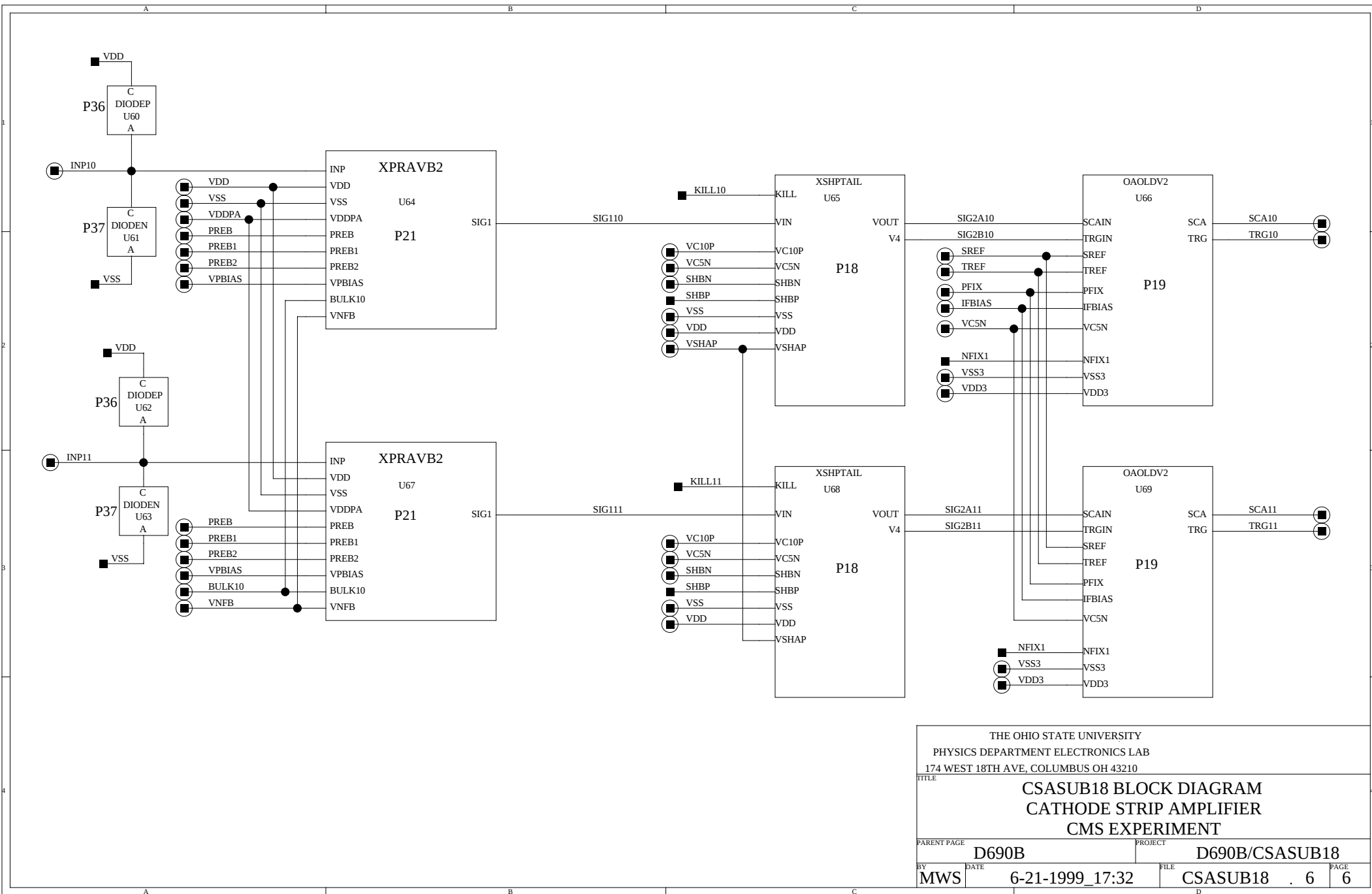


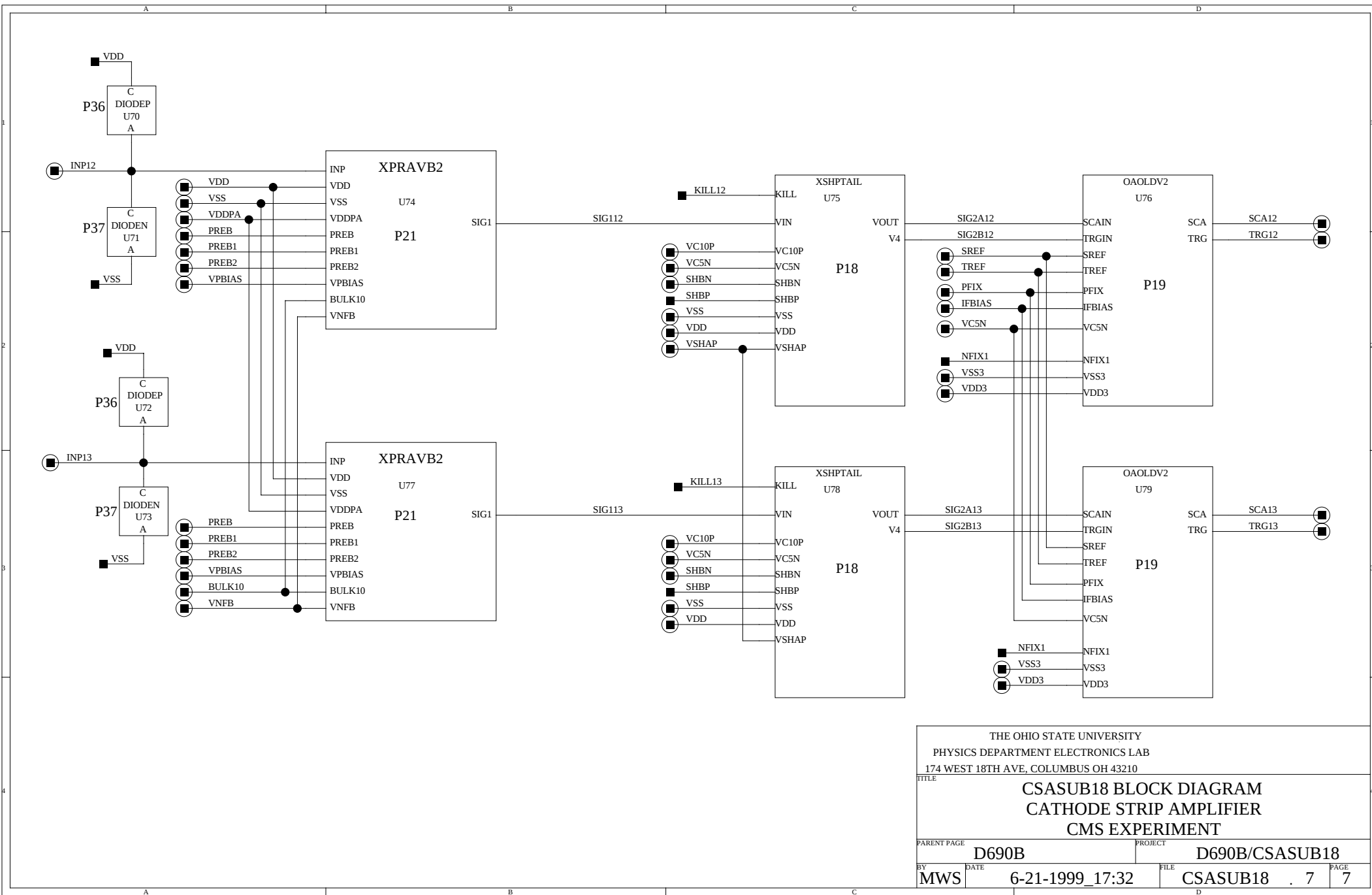


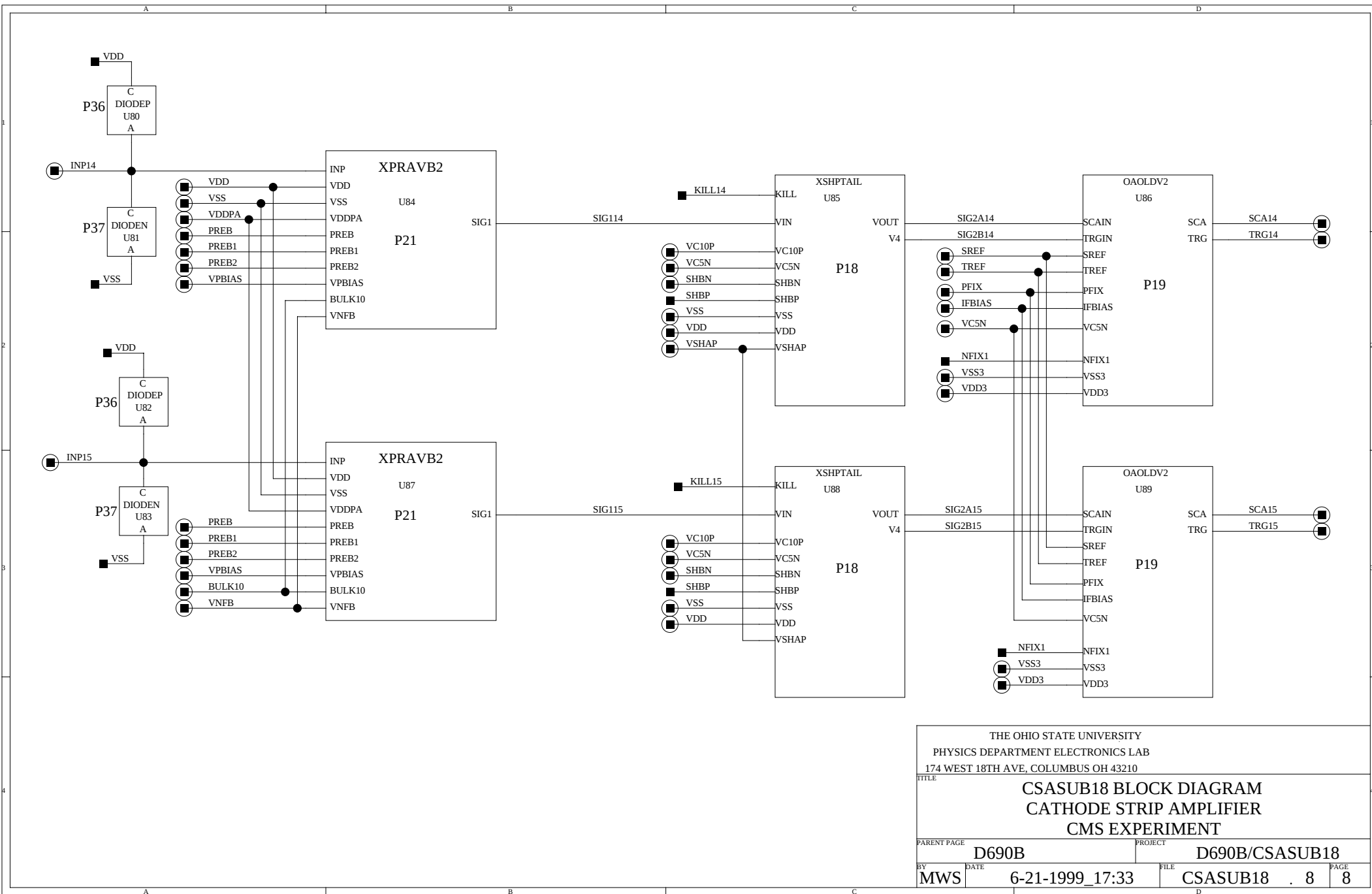




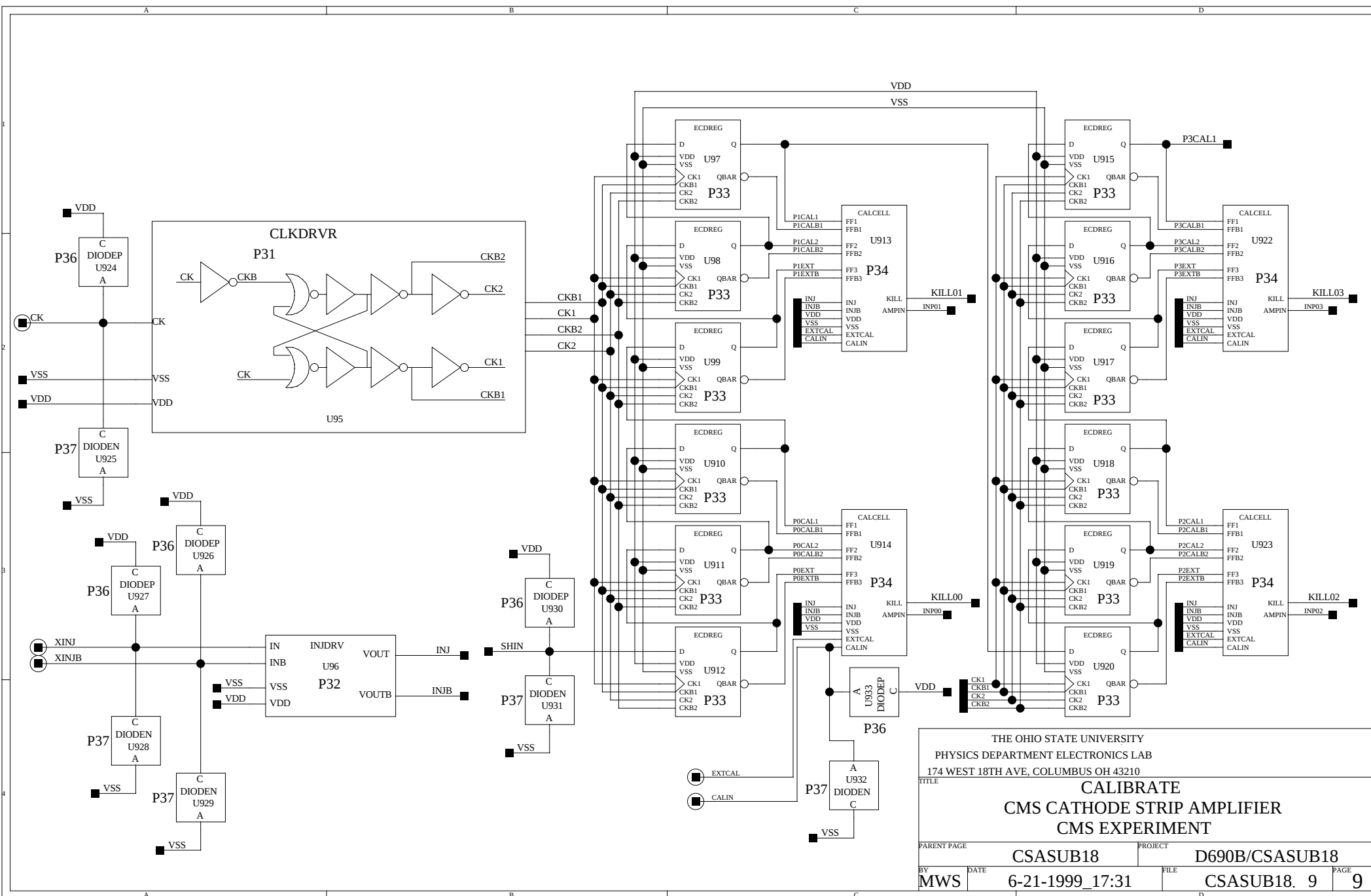


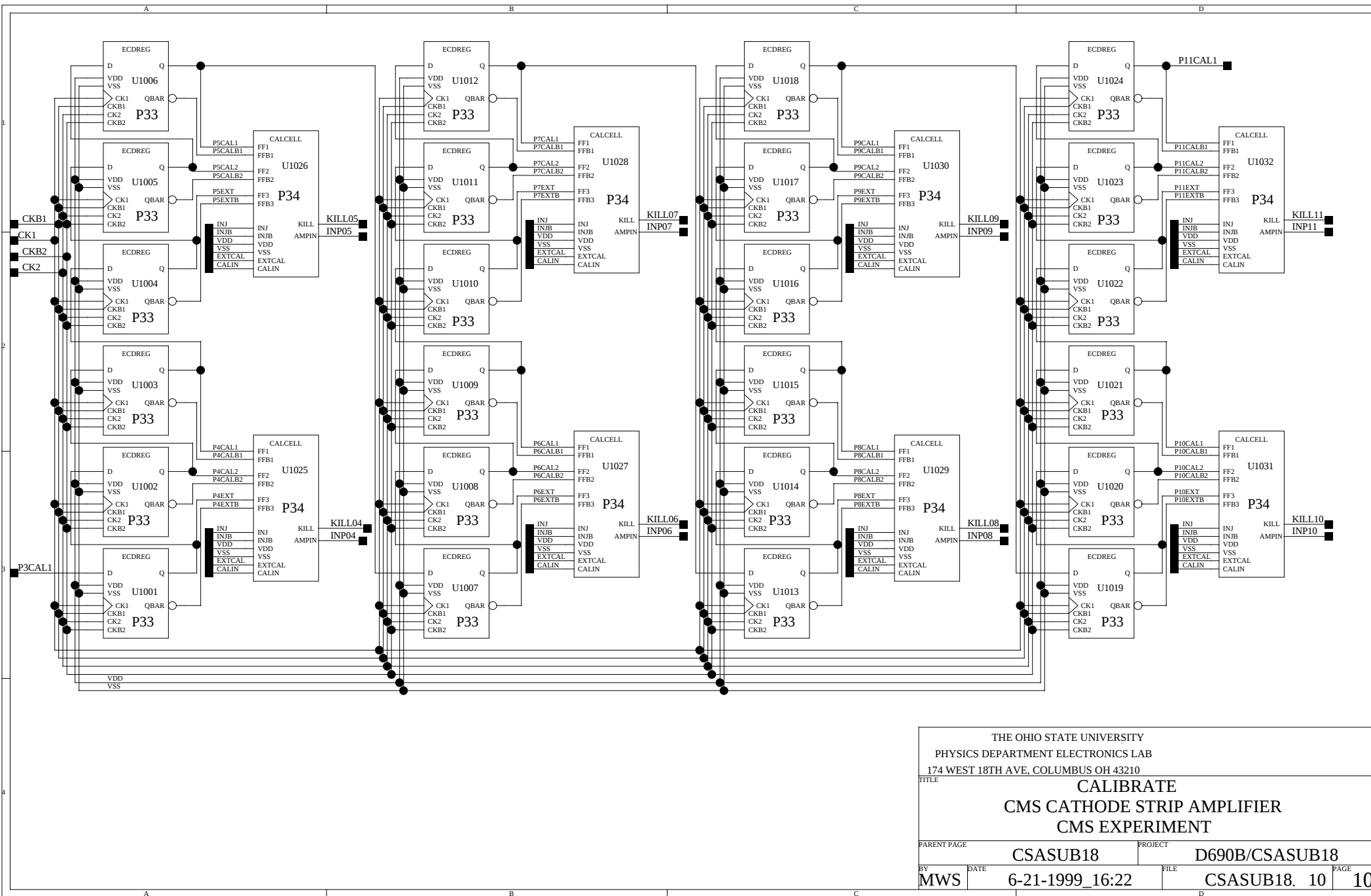




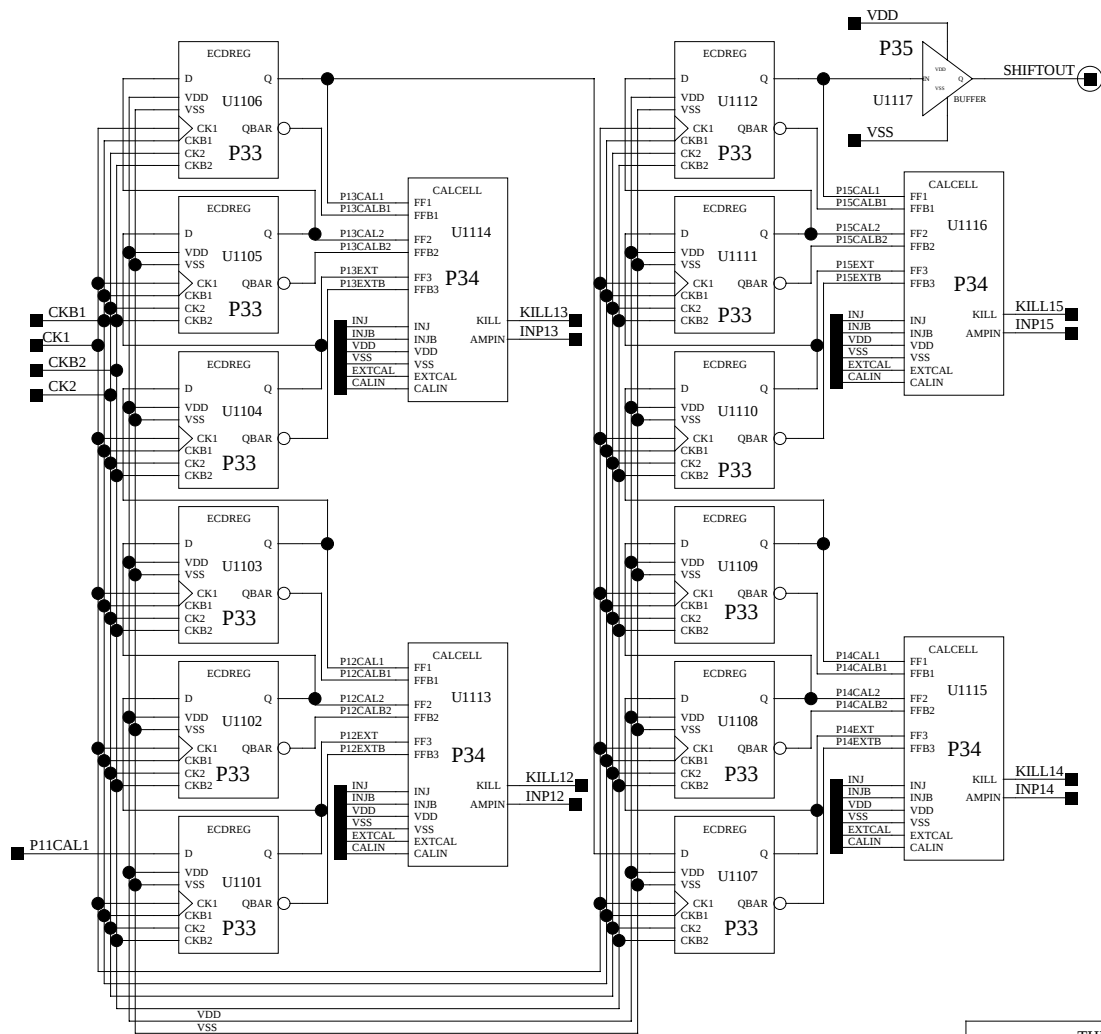


THE OHIO STATE UNIVERSITY PHYSICS DEPARTMENT ELECTRONICS LAB 174 WEST 18TH AVE, COLUMBUS OH 43210			
TITLE CSASUB18 BLOCK DIAGRAM CATHODE STRIP AMPLIFIER CMS EXPERIMENT			
PARENT PAGE	D690B		PROJECT
BY	DATE	FILE	PAGE
MWS	6-21-1999_17:33	CSASUB18 . 8	8

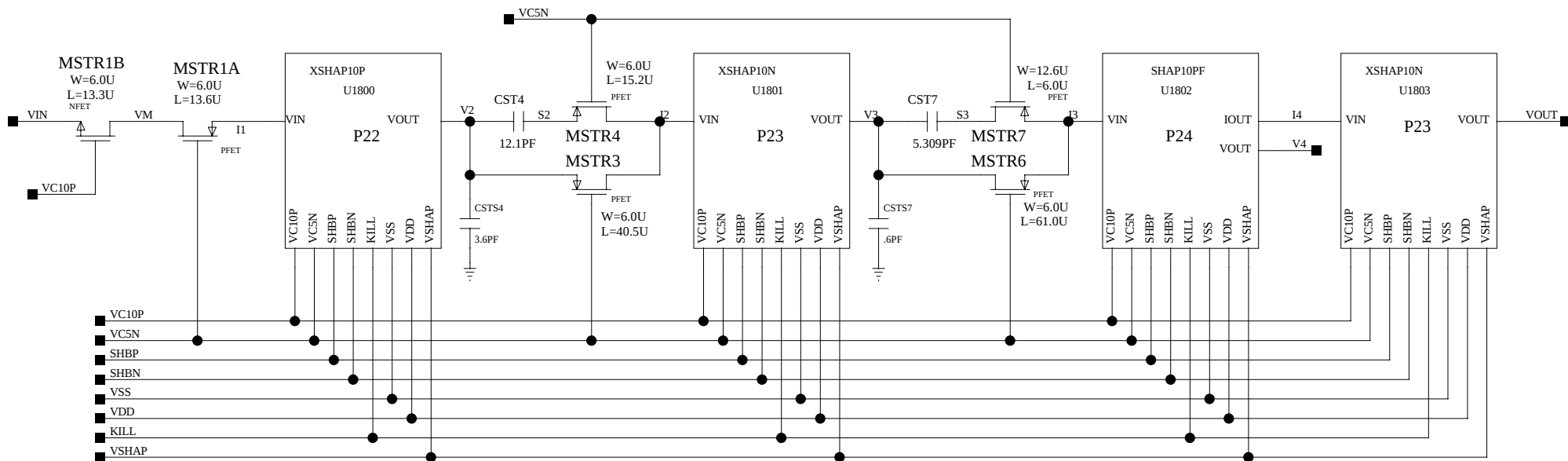




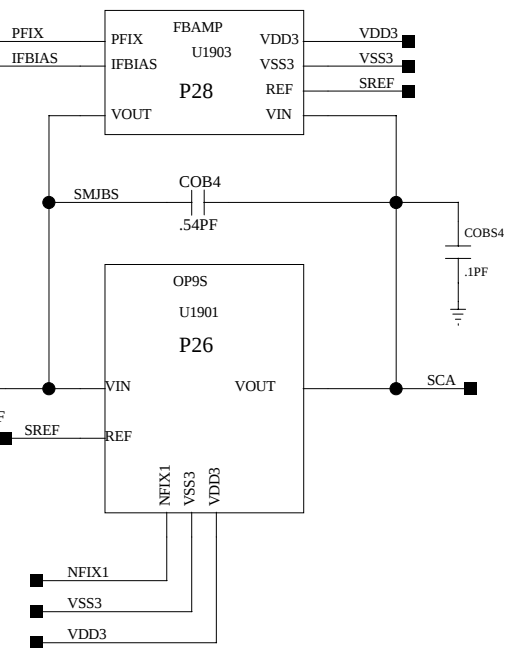
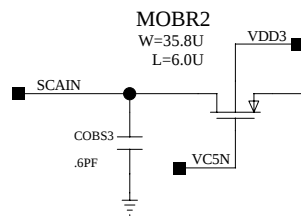
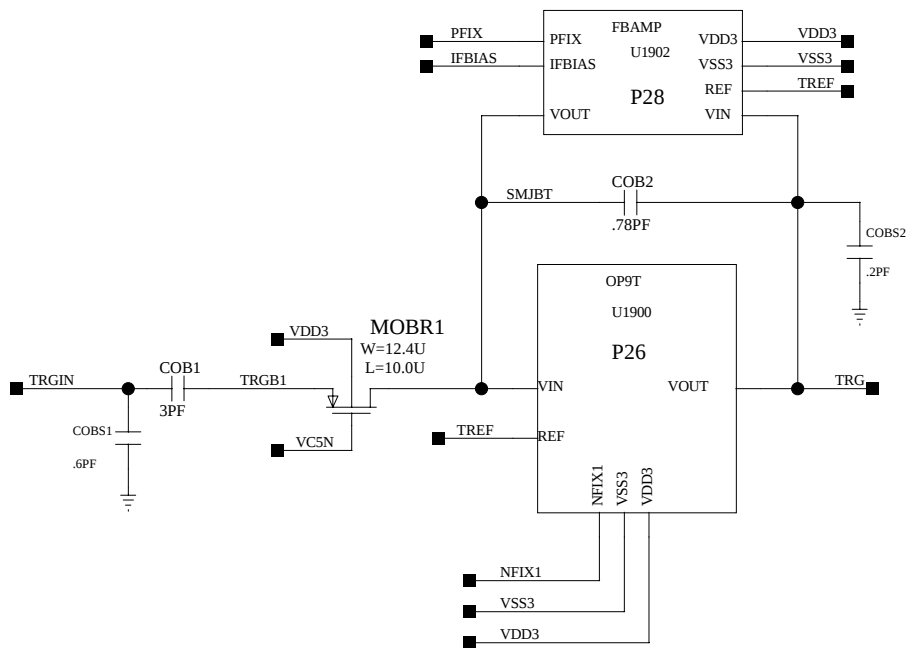
THE OHIO STATE UNIVERSITY PHYSICS DEPARTMENT ELECTRONICS LAB 174 WEST 18TH AVE, COLUMBUS OH 43210			
TITLE CALIBRATE CMS CATHODE STRIP AMPLIFIER CMS EXPERIMENT			
PARENT PAGE CSASUB18		PROJECT D690B/CSASUB18	
BY MWS	DATE 6-21-1999 16:22	FILE CSASUB18. 10	PAGE 10



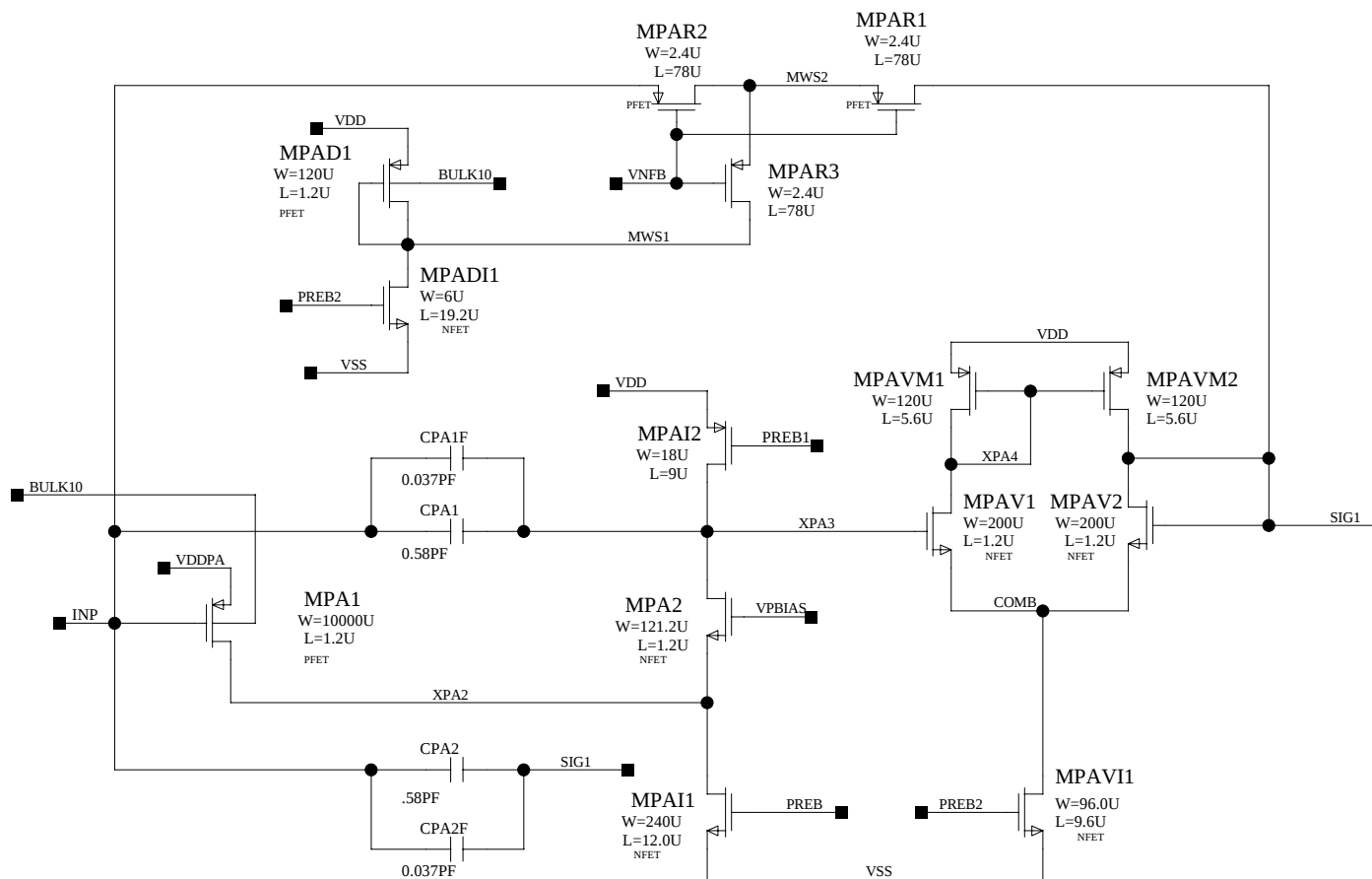
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TITLE CALIBRATE CMS CATHODE STRIP AMPLIFIER CMS EXPERIMENT			
PARENT PAGE		PROJECT	
CSASUB18		D690B/CSASUB18	
BY	DATE	FILE	PAGE
MWS	6-21-1999 16:30	CSASUB18. 11	11



THE OHIO STATE UNIVERSITY PHYSICS DEPARTMENT ELECTRONICS LAB 174 WEST 18TH AVE, COLUMBUS OH 43210			
TITLE XSHPTAIL CMS CATHODE STRIP AMPLIFIER CMS EXPERIMENT			
PARENT PAGE		PROJECT	
CSASUB18		D690B/CSASUB18	
BY	DATE	FILE	PAGE
MWS	7-12-1999_18:31	XSHPTAIL. 1	18

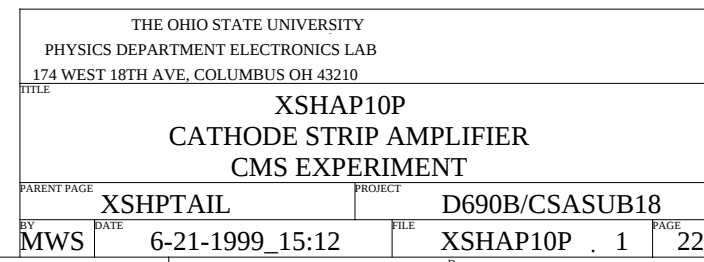


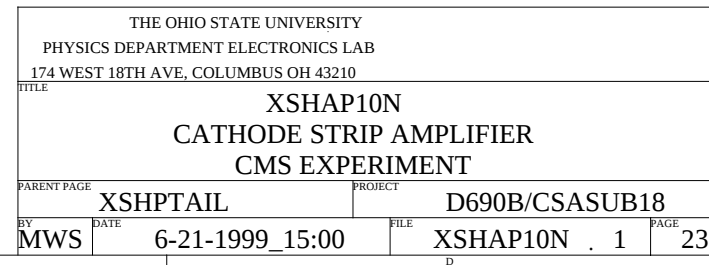
THE OHIO STATE UNIVERSITY PHYSICS DEPARTMENT ELECTRONICS LAB 174 WEST 18TH AVE, COLUMBUS OH 43210			
TITLE OAOLDV2 CMS CATHODE STRIP AMPLIFIER CMS EXPERIMENT			
PARENT PAGE CSASUB18		PROJECT D690B/CSASUB18	
BY MWS	DATE 6-24-1999_13:39	FILE OAOLDV2 . 1	PAGE 19

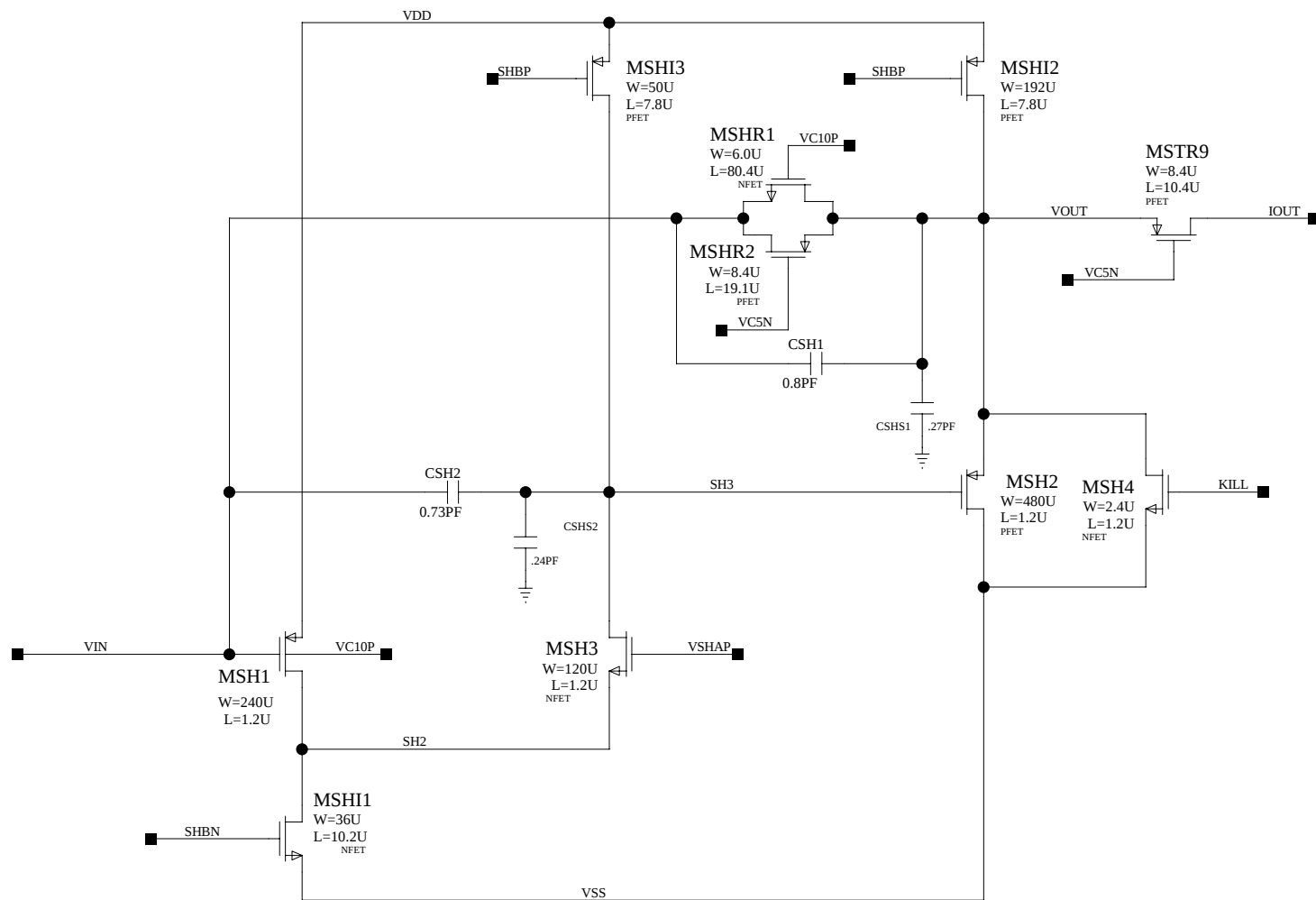


NOTE: ALL MFETP BULK PINS ARE TIED TO VDD
ALL MFETN BULK PINS ARE TIED TO VSS
UNLESS OTHERWISE NOTED

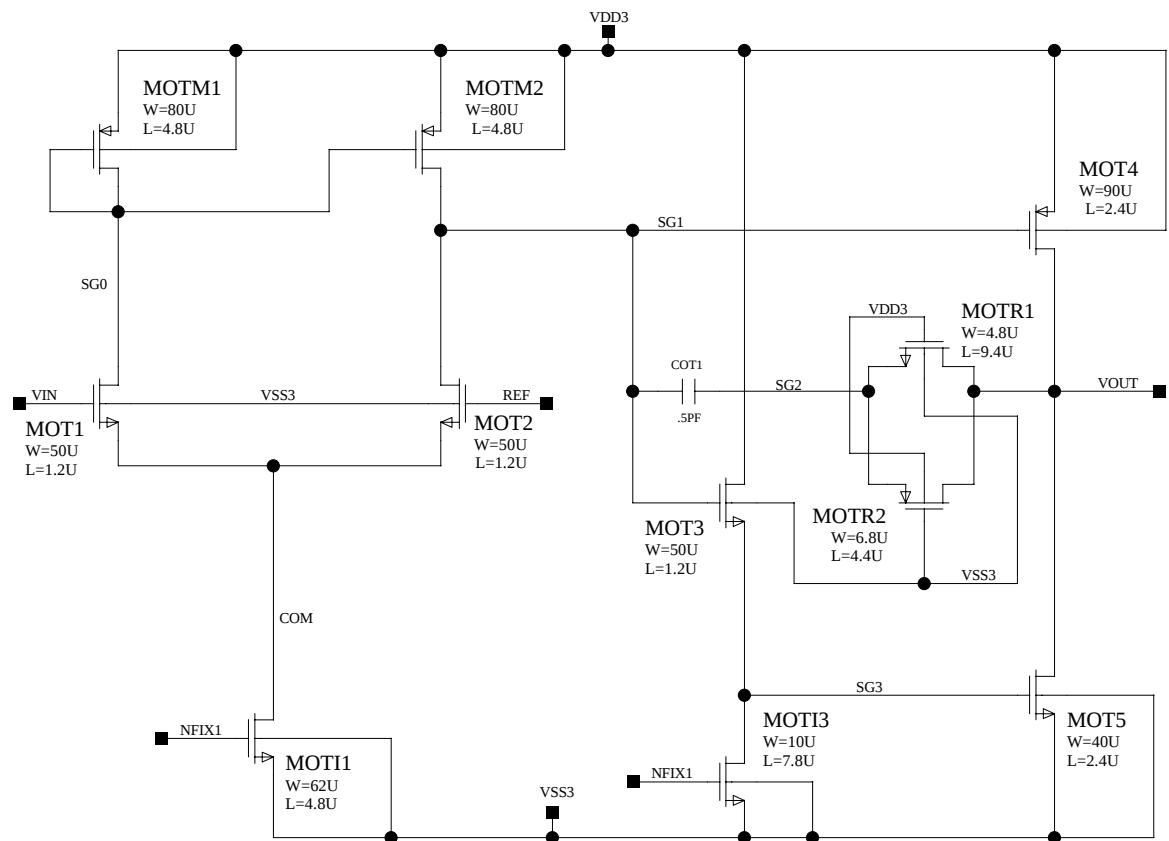
THE OHIO STATE UNIVERSITY PHYSICS DEPARTMENT ELECTRONICS LAB 174 WEST 18TH AVE, COLUMBUS OH 43210			
TITLE XPRAVB CATHODE STRIP AMPLIFIER CMS EXPERIMENT			
PARENT PAGE CSASUB18		PROJECT D690B/CSASUB18	
BY MWS	DATE 6-24-1999_13:45	FILE XPRAVB2 . 1	PAGE 21

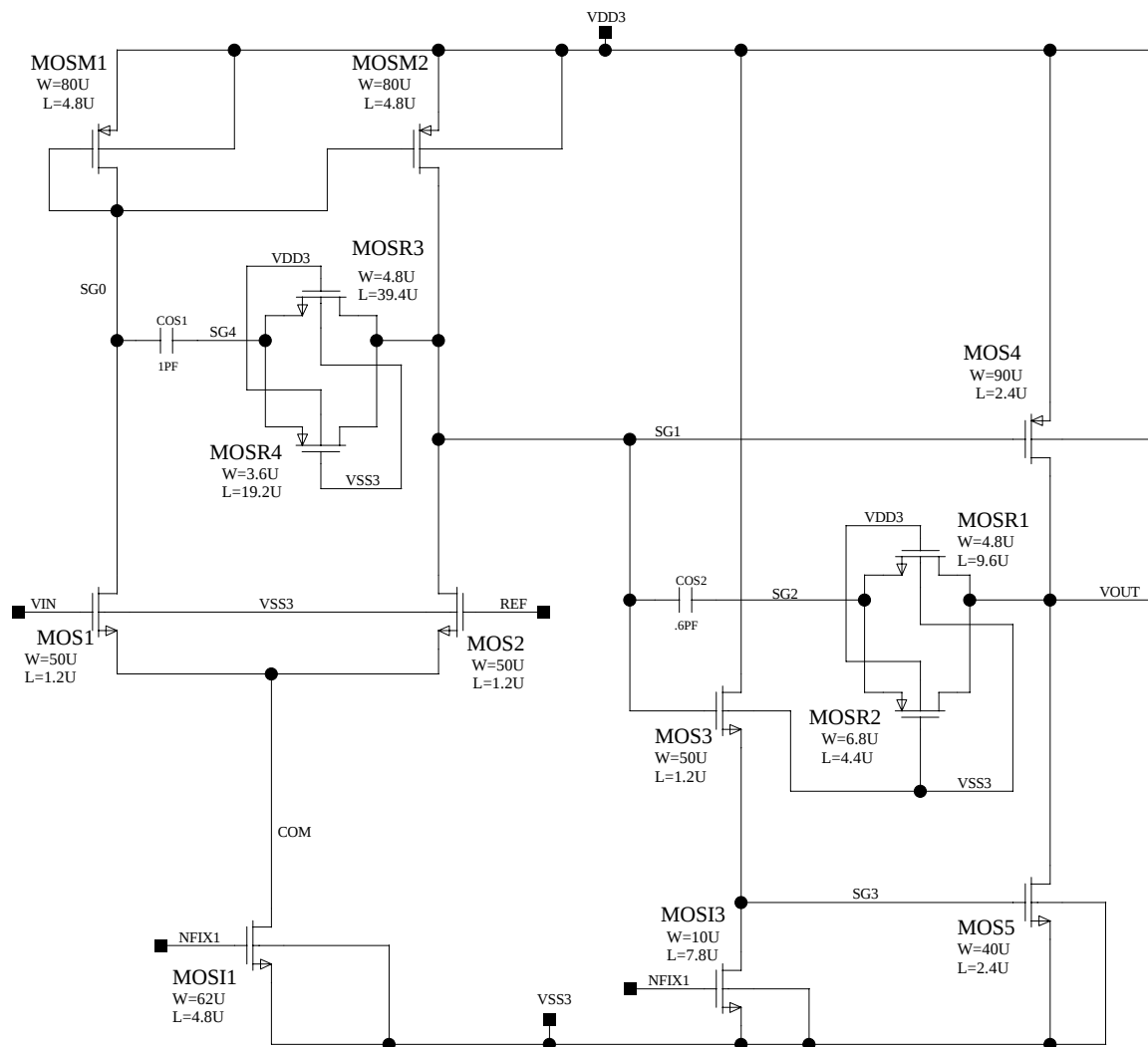


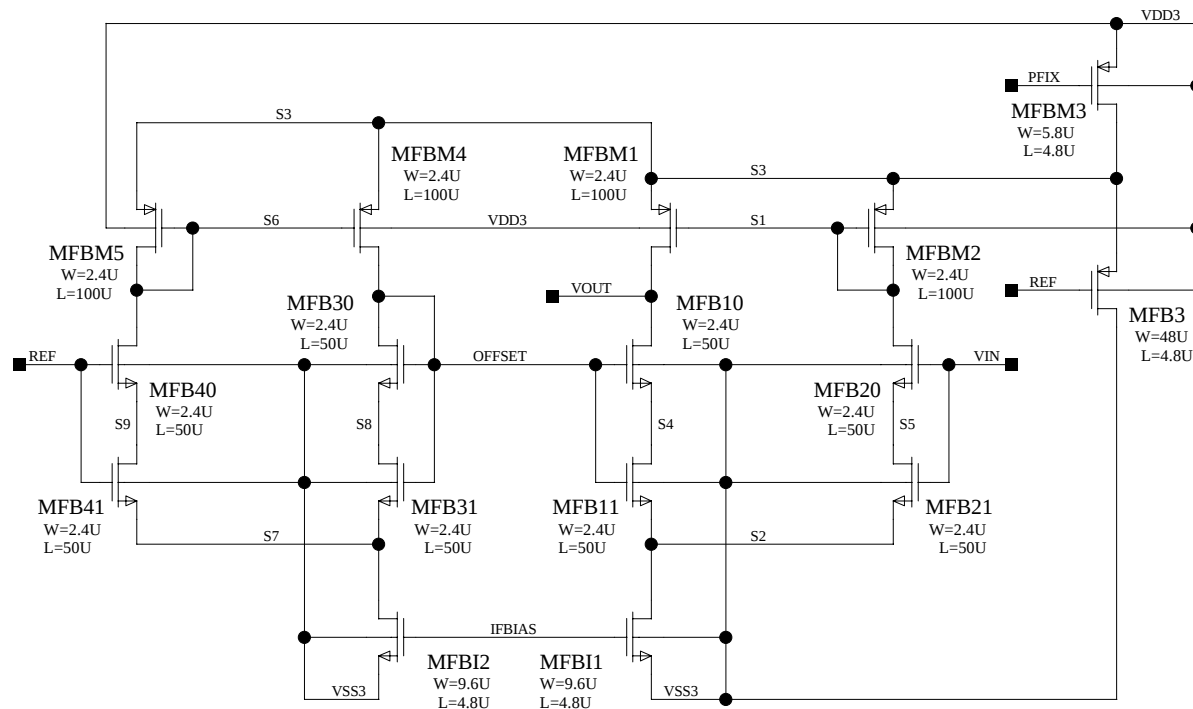


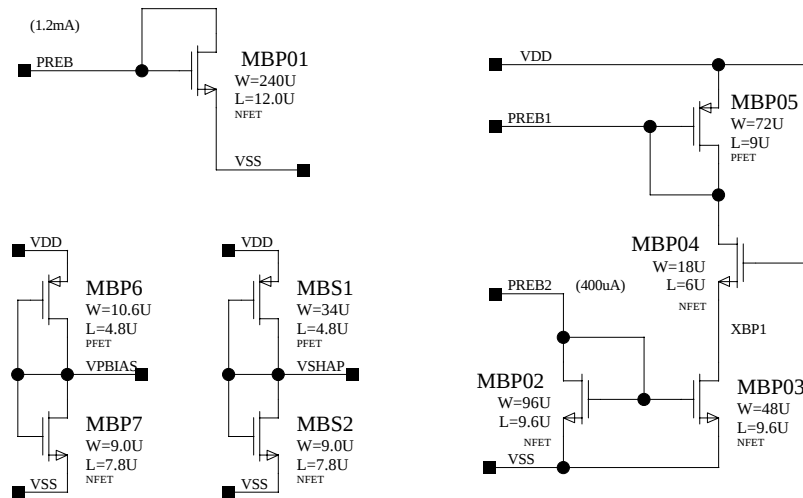


THE OHIO STATE UNIVERSITY PHYSICS DEPARTMENT ELECTRONICS LAB 174 WEST 18TH AVE, COLUMBUS OH 43210			
TITLE XSHAP10PF CATHODE STRIP AMPLIFIER CMS EXPERIMENT			
PARENT PAGE		PROJECT	
XSHPTAIL		D690B/CSASUB18	
BY	DATE	FILE	PAGE
MWS	6-21-1999_15:14	SHAP10PF . 1	24

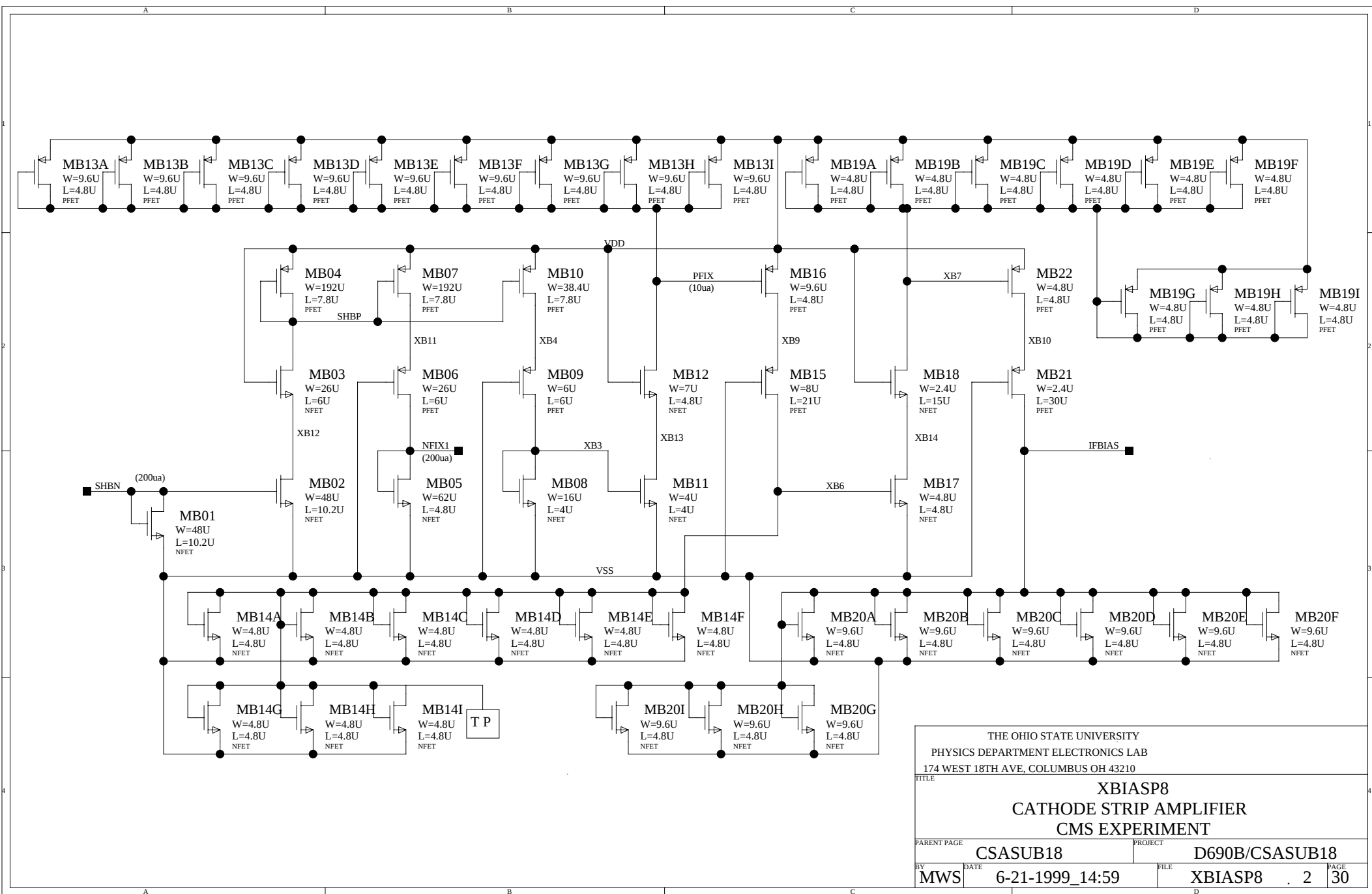


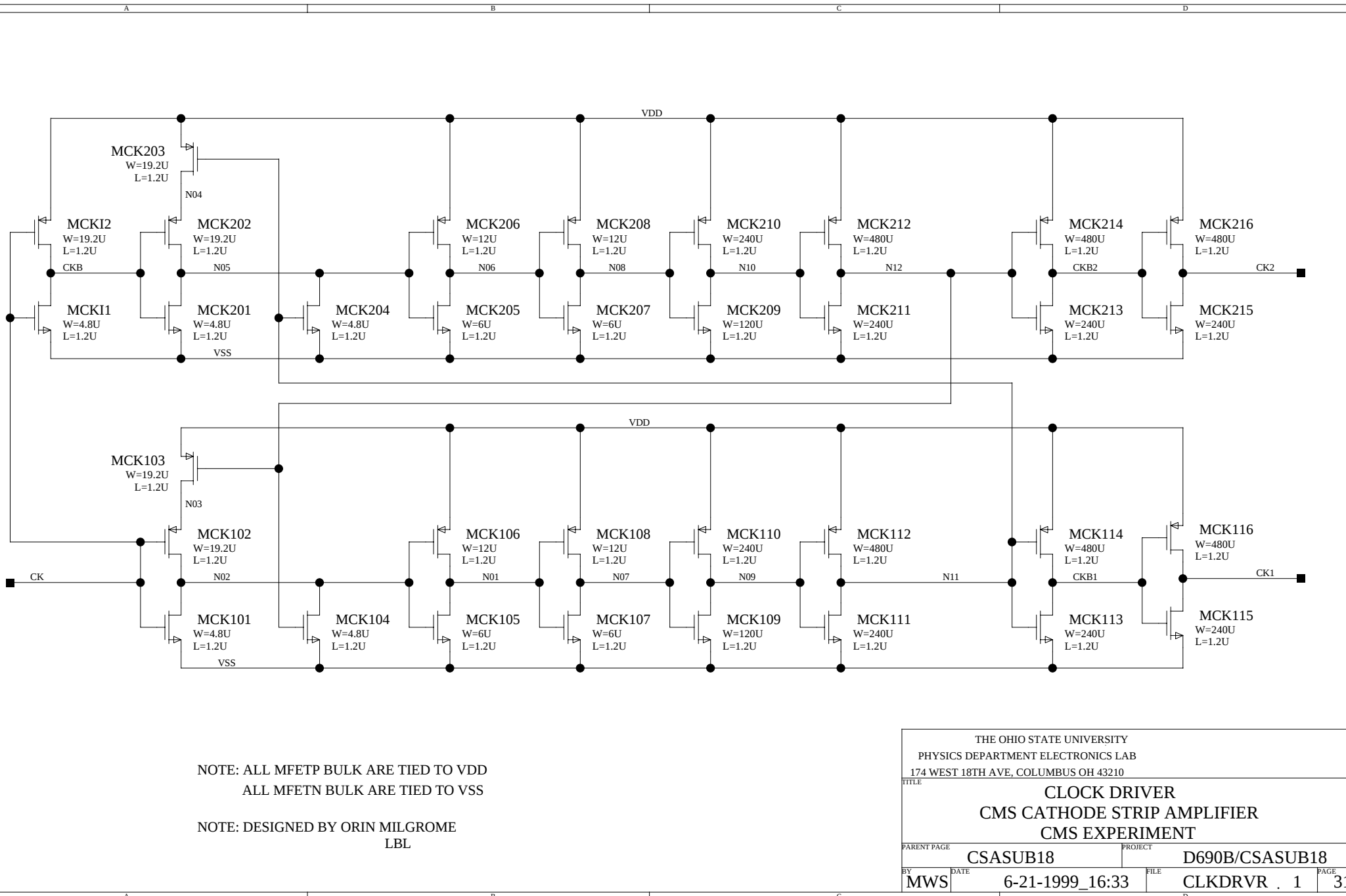






THE OHIO STATE UNIVERSITY PHYSICS DEPARTMENT ELECTRONICS LAB 174 WEST 18TH AVE, COLUMBUS OH 43210			
TITLE XBIASP8 CATHODE STRIP AMPLIFIER CMS EXPERIMENT			
PARENT PAGE	CSASUB18		PROJECT D690B/CSASUB18
BY MWS	DATE 6-21-1999_14:59	FILE XBIASP8 . 1	PAGE 29

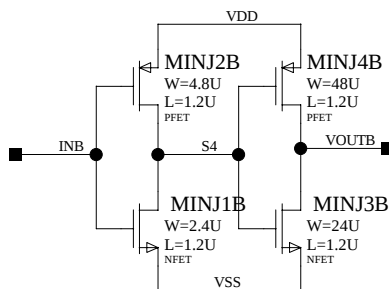
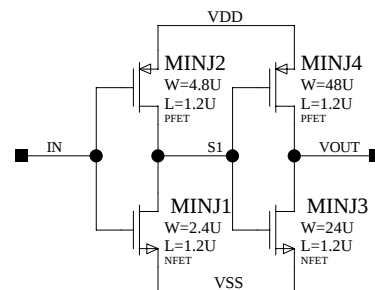




NOTE: ALL MFETP BULK ARE TIED TO VDD
ALL MFETN BULK ARE TIED TO VSS

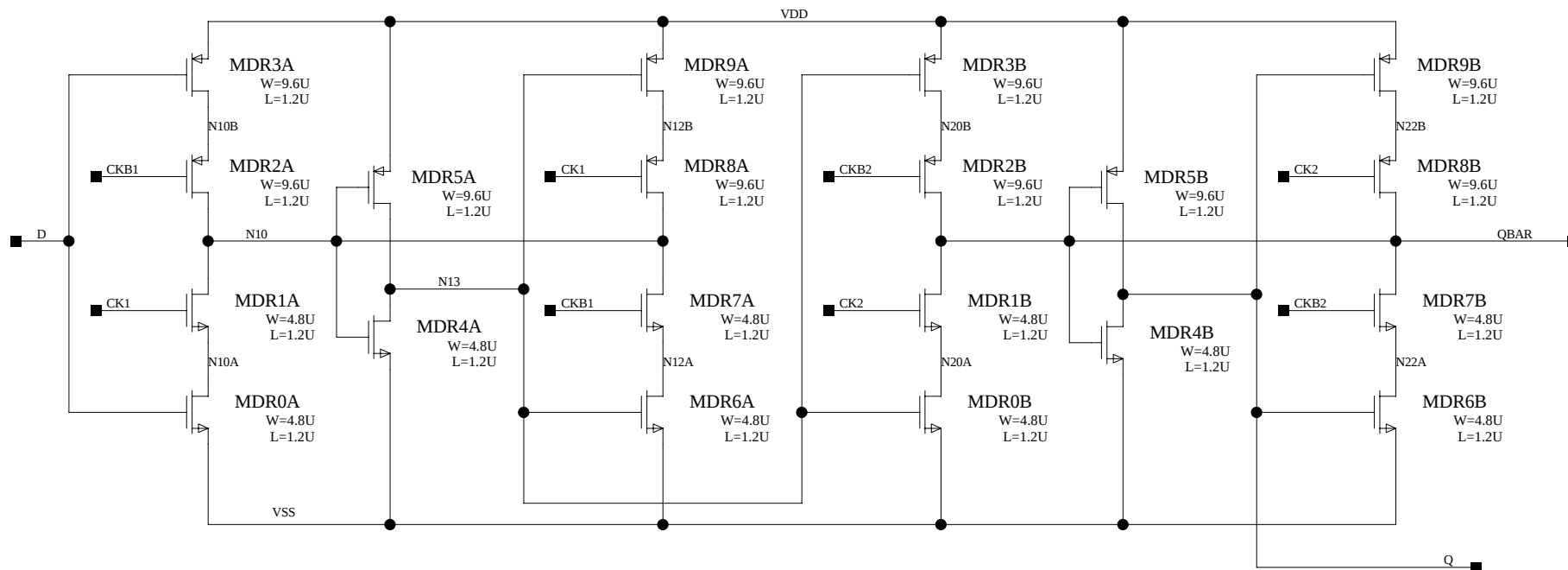
NOTE: DESIGNED BY ORIN MILGROME
LBL

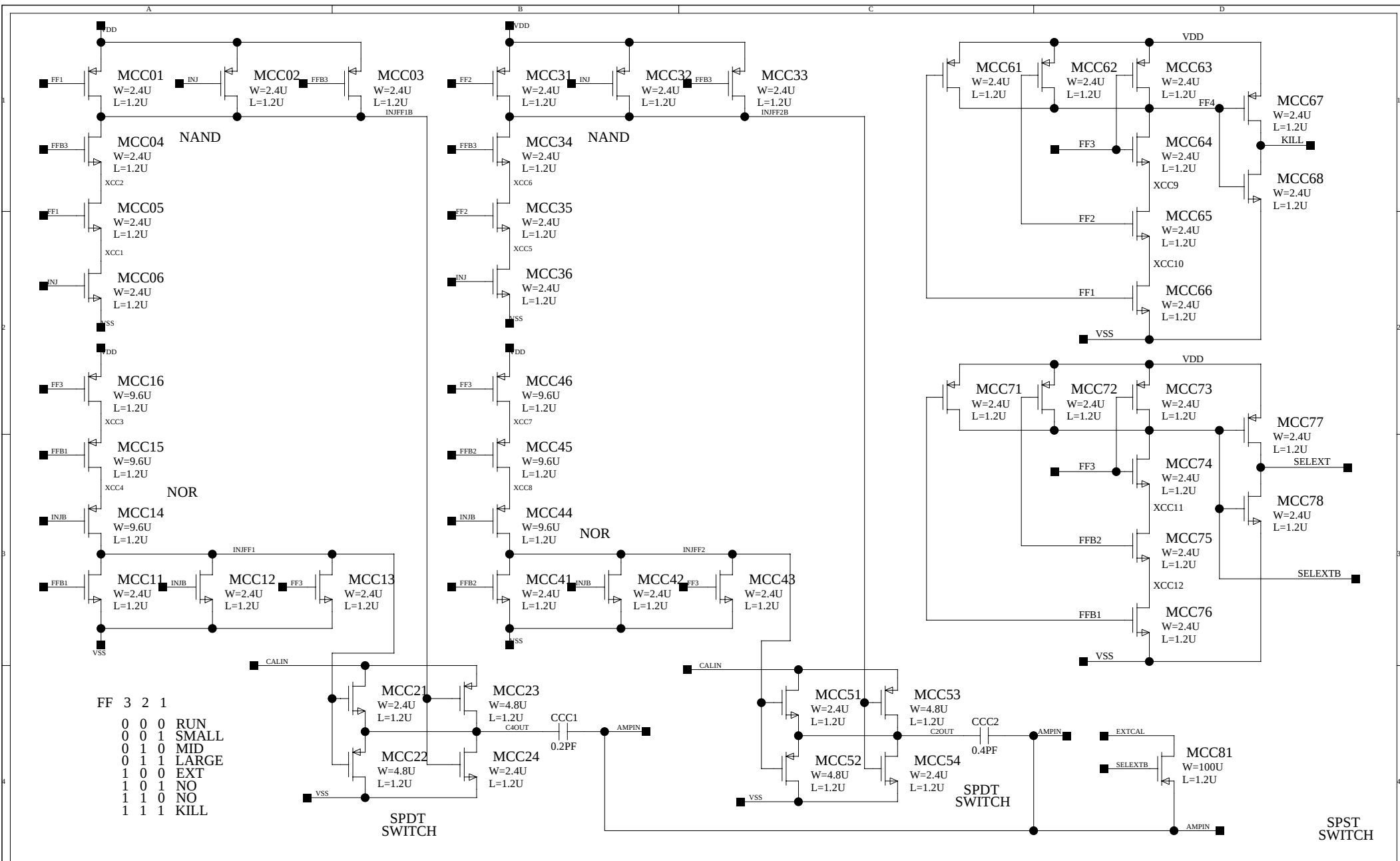
THE OHIO STATE UNIVERSITY PHYSICS DEPARTMENT ELECTRONICS LAB 174 WEST 18TH AVE, COLUMBUS OH 43210			
TITLE CLOCK DRIVER CMS CATHODE STRIP AMPLIFIER CMS EXPERIMENT			
PARENT PAGE CSASUB18		PROJECT D690B/CSASUB18	
BY MWS	DATE 6-21-1999_16:33	FILE CLKDRVR . 1	PAGE 31

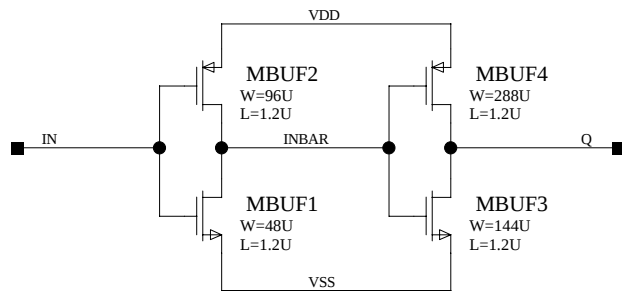


NFET BULK = VSS
PFET BULK = VDD

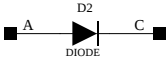
THE OHIO STATE UNIVERSITY PHYSICS DEPARTMENT ELECTRONICS LAB 174 WEST 18TH AVE, COLUMBUS OH 43210			
TITLE INJDRV CATHODE STRIP AMPLIFIER CMS EXPERIMENT			
PARENT PAGE	CSASUB18		PROJECT D690B/CSASUB18
BY MWS	DATE 6-21-1999_16:34	FILE INJDRV . 1	PAGE 32





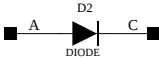


THE OHIO STATE UNIVERSITY PHYSICS DEPARTMENT ELECTRONICS LAB 174 WEST 18TH AVE, COLUMBUS OH 43210			
TITLE BUFFER CMS CATHODE STRIP AMPLIFIER CMS EXPERIMENT			
PARENT PAGE		PROJECT	
CSASUB18		D690B/CSASUB18	
BY	DATE	FILE	PAGE
MWS	6-21-1999_15:15	BUFFER . 1	35



NOTE: THIS DEVICE HAS A DOUBLE GUARD RING

THE OHIO STATE UNIVERSITY PHYSICS DEPARTMENT ELECTRONICS LAB 174 WEST 18TH AVE, COLUMBUS OH 43210			
TITLE DIODEP CMS CATHODE STRIP AMPLIFIER CMS EXPERIMENT			
PARENT PAGE CSASUB18		PROJECT D690B/CSASUB18	
BY MWS	DATE 6-21-1999_15:04	FILE DIODEP . 1	PAGE 36



NOTE: THIS DEVICE HAS A DOUDLE GUARD RING

THE OHIO STATE UNIVERSITY PHYSICS DEPARTMENT ELECTRONICS LAB 174 WEST 18TH AVE, COLUMBUS OH 43210			
TITLE DIODEN CMS CATHODE STRIP AMPLIFIER CMS EXPERIMENT			
PARENT PAGE CSASUB18		PROJECT D690B/CSASUB18	
BY MWS	DATE 6-21-1999_14:59	FILE DIODEN . 1	PAGE 37