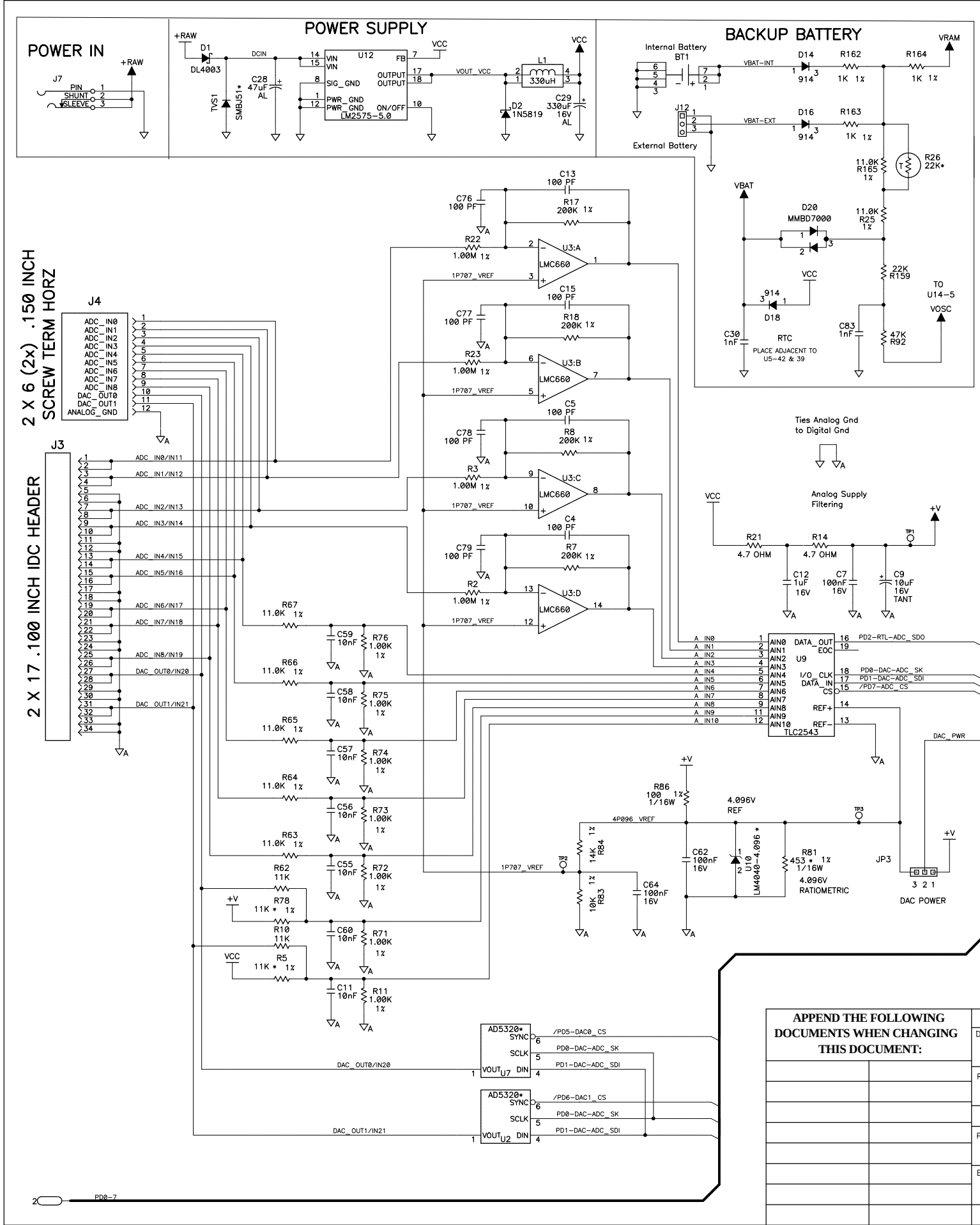
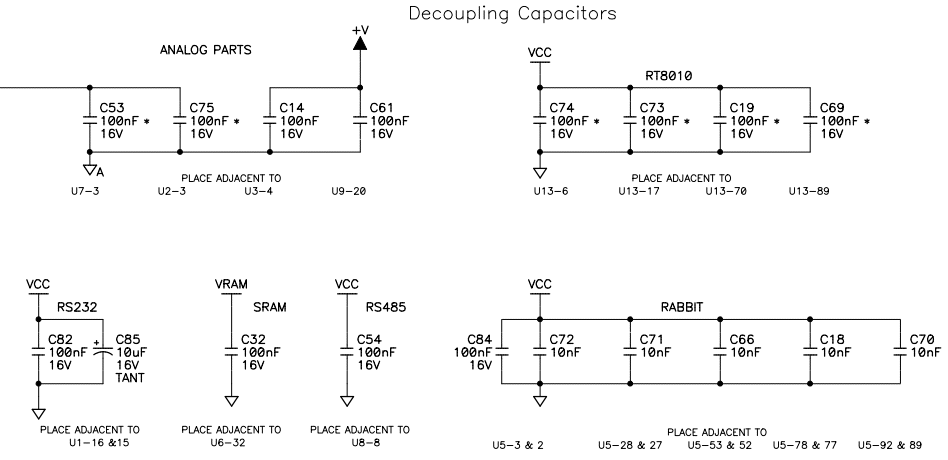




REVISION HISTORY				REVISION APPROVAL			
REV	ECO	DESCRIPTION OF CHANGE		PROJECT ENGINEER	APPROVAL DATE	DOCUMENT CONTROL	APPROVAL DATE
A	E11394	INITIAL SCHEMATIC RELEASE		VAN	5/13/01	KIS	5/13/01
B	E11620	NEW BATTERY CIRCUIT, OTHER MINOR IMPROVEMENTS		VAN	8/6/01	KIS	8/3/01
C	E11643	ADD NOTES TO PORT B AND C SIGNALS FOR ALT. NAMES.		VAN	9/5/01	KIS	9/7/01
D	E11931	6 LAYER PCB, CORRECT NOTES, ADD R87 & R166-167, 750ma DRIVERS ON OUT 8-9		VAN	6/6/02	KIS	6/5/02
E	E12132	STUFFING CHART IMPROVED & REMOVED 2040 REFERENCE.		VAN	11/13/02	KIS	11/13/02
F	E12403	IMPROVE ETHERNET JACK CIRC. REMOVE CAPS, BETTER CONNECTOR.		XT	9/18/03	KF	9/17/03

REF DES	DEVICE	DEVICE VOLTAGE INFORMATION								DEVICE: FILTER CAP REF DES(s)
		AGND	GND	VCC	VRAM	+V	VOSC	VBAT		
U13	RTL8019AS		14,28,44 52,83,86	6,17, 70,89						C19, C69, C73, C74
U5	RABBIT 2000		2,27,39 52,77,89	3,28,53, 78,92			42			C18, C66, C70, C71, C72, C84
U3	LM660	11				4				C14
U2	AD5320	2				3				C75
U7	AD5320	2				3				C53
U9	TLC2543	10				20				C61
U1	SP232		15	16						C82
U8	RS485		5	8						C54
U11	FLASH		24	8						
U4	ETC811L		2	4						C24
U6	SRAM 512K X 8		15		32					C32
U6	SRAM 128K X 8		14		28					
U14	74AHC1GU84		3				5			

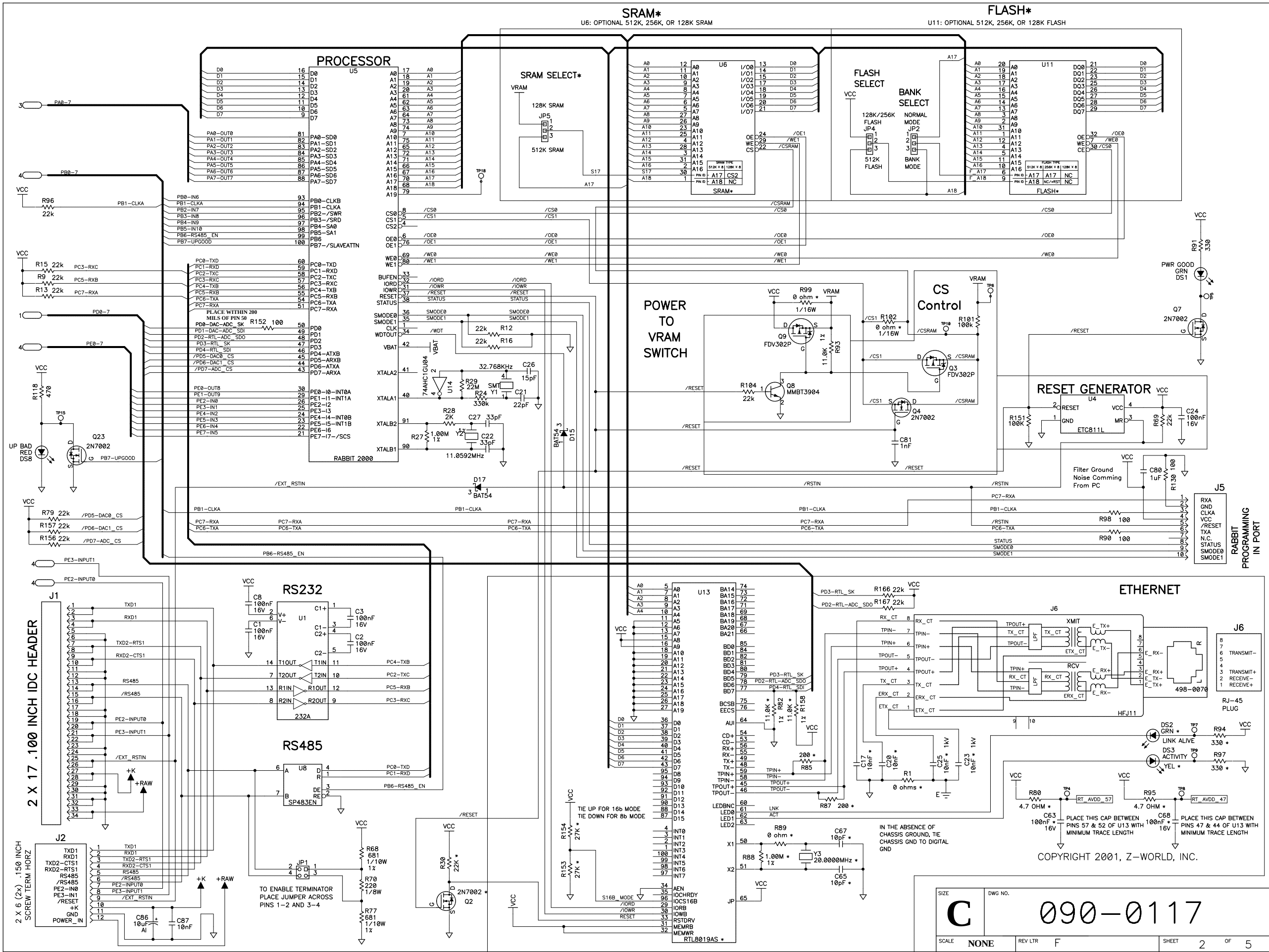
- NOTES: UNLESS OTHERWISE SPECIFIED:
- ALL RESISTOR VALUES ARE IN OHMS, 1/16W, 5%
 - ALL CAPACITORS ARE 50VDC OR HIGHER.
 - THE ORIGINATION SOURCE OF A VOLTAGE IS REPRESENTED BY (vcc), AND ALL REFERENCES TO THAT VOLTAGE ARE REPRESENTED BY (vcc).
 - OUTLINED CIRCUIT MAY NOT BE STUFFED DEPENDING ON MODEL, SEE STUFFING CHART FOR CLARIFICATION.
 - COMPONENTS OR COMPONENT VALUES SHOWN WITH AN ASTERISK (*) FOLLOWING THE VALUE, MAY HAVE DIFFERENT VALUES, OR MAY NOT BE STUFFED DEPENDING ON MODEL. SEE STUFFING CHART FOR CLARIFICATION.



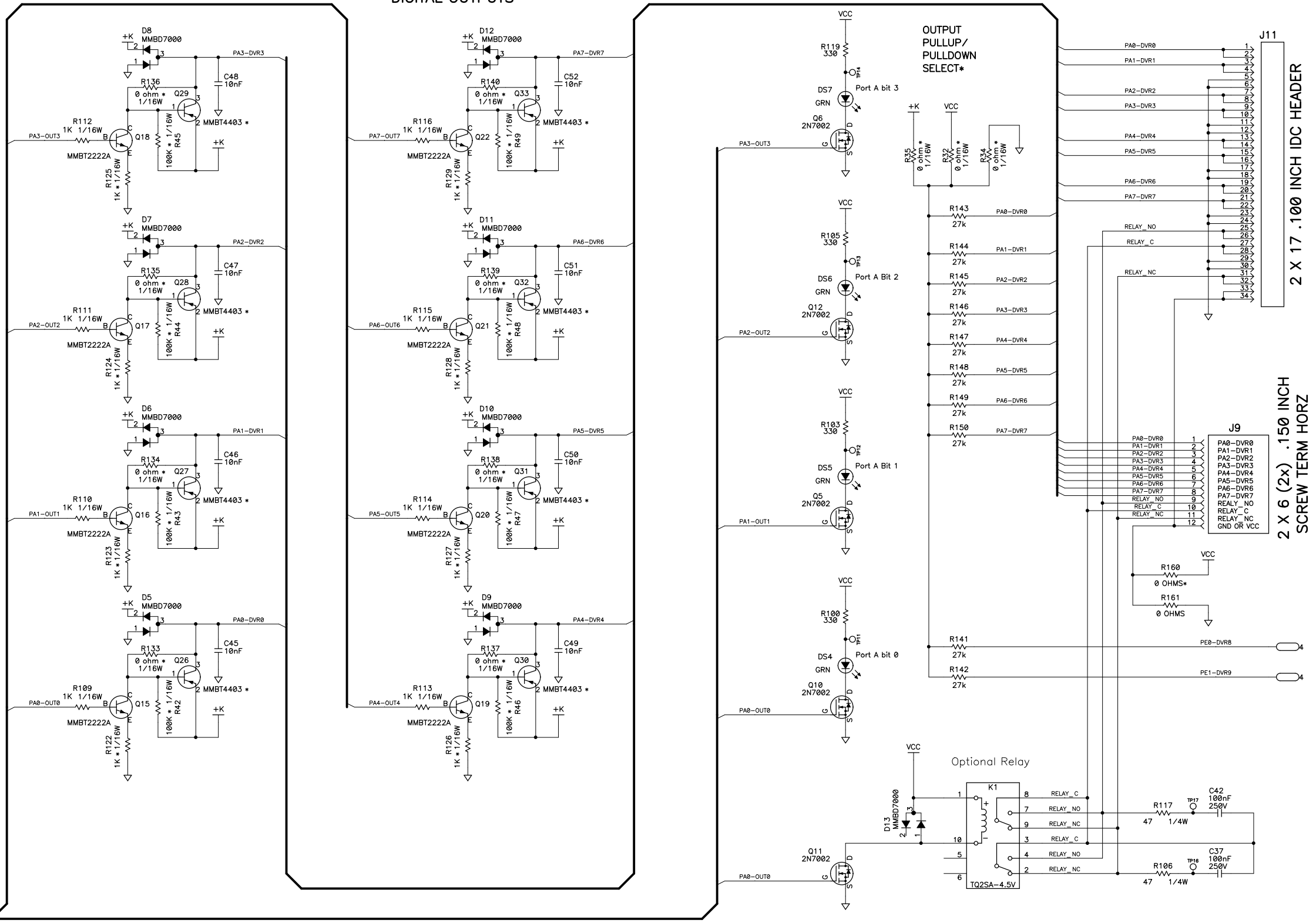
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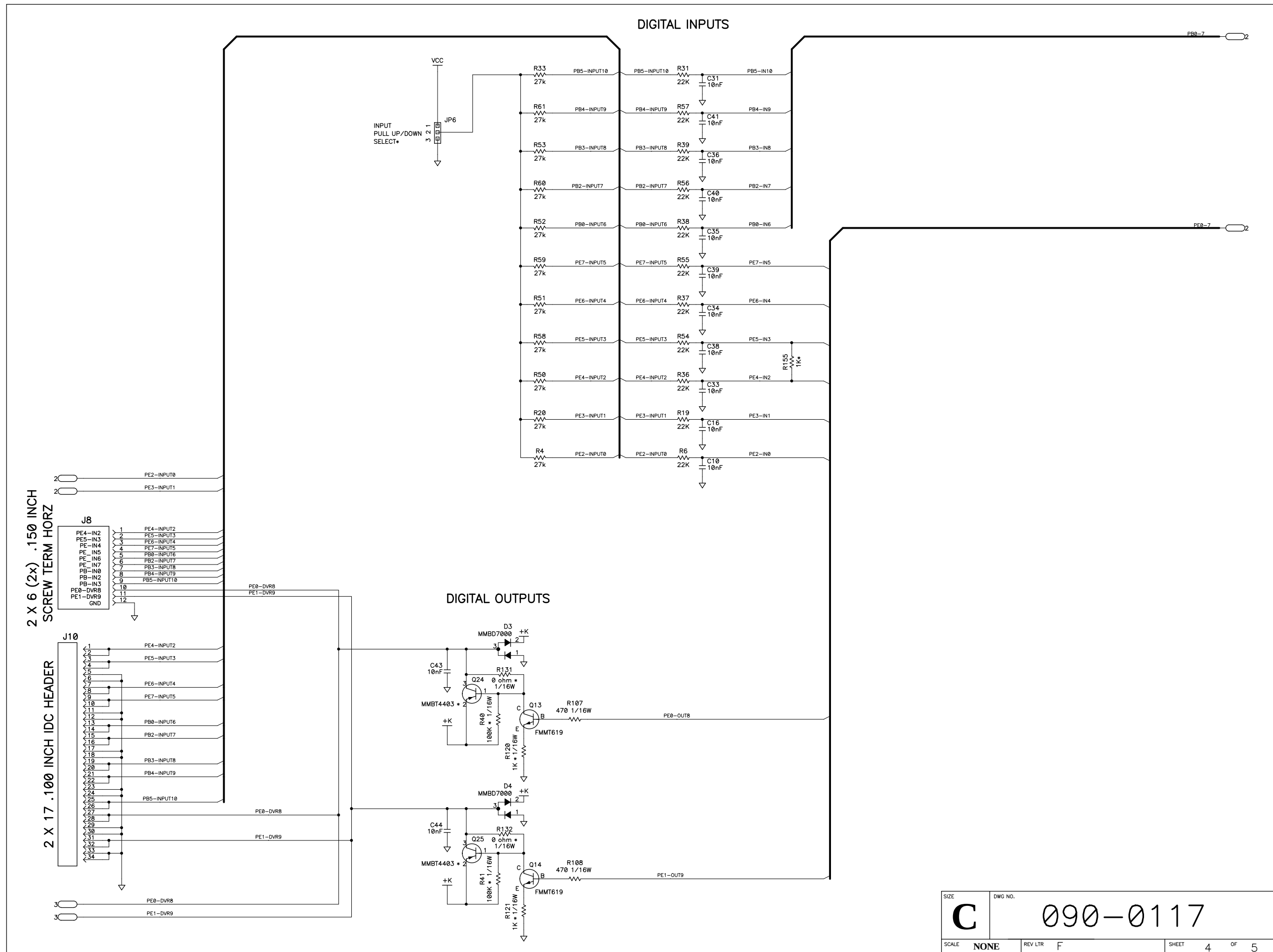
APPEND THE FOLLOWING DOCUMENTS WHEN CHANGING THIS DOCUMENT:		DRAWING CONTENT:		TITLE		 2900 SPAFFORD ST. DAVIS, CA 95616 530 - 757-4616	
		DRAWN BY: (INITIAL RELEASE) VAN	4/26/01	SCHEMATIC DIAGRAM BL2000 SERIES WILDCAT			
		REVISED BY: K.SCHALLER	11/13/02				
		APPROVALS: INITIAL RELEASE					
		PROJECT ENGINEER: Van O.	5/13/01				
		ENGINEERING MANAGER: Dick Matthews	5/14/01				
		SIGNATURES	DATE	SIZE C	DWG NO. 090-0117		
				SCALE NONE	RELEASE DATE 5/13/01	SHEET 1	OF 5





DIGITAL OUTPUTS





STUFFING TABLE

	CIRCUIT	PART	OPTION INSTALLED	OPTION NOT INSTALLED
	ADC INPUTS AIN_9 & AIN_10	R5 R78		NOT INSTALLED NOT INSTALLED
UNINSTALLED COMPONENTS	CS CONTROL	R99 R102		NOT INSTALLED NOT INSTALLED
	ETHER–NET	R154		NOT INSTALLED
	RT8019 SDI PU	R158		NOT INSTALLED
	Source Vcc	R160		NOT INSTALLED
	Battery	R26		NOT INSTALLED
	Ext Interrupt	R155		NOT INSTALLED
	ETHER–NET	R87		NOT INSTALLED
SRAM	SRAM DENSITY	U6	128K SRAM	256K/512K SRAM
	SRAM SELECT	JP5	ZERO ohm ACROSS PINS 1–2	ZERO ohm ACROSS PINS 2–3
FLASH	FLASH DENSITY	U11	128K/256K FLASH	512K FLASH
	FLASH SELECT	JP4	ZERO ohm ACROSS PINS 1–2	ZERO ohm ACROSS PINS 2–3
FLASH BANK SELECT	FLASH DENSITY	U11	256K SRAM	128K/512K SRAM
	BANK SELECT	JP2	DISABLED ZERO ohm ACROSS PINS 1–2 ENABLED ZERO ohm ACROSS PINS 2–3	DISABLED ZERO ohm ACROSS PINS 1–2
DACs	DAC_0	U7	AD5320	NOT INSTALLED
		C53	INSTALLED	NOT INSTALLED
	DAC_1	U2	AD5320	NOT INSTALLED
		C75	INSTALLED	NOT INSTALLED
	DAC POWER	JP3	4.096V ZERO ohm ACROSS PINS 2–3	5.0V ZERO ohm ACROSS PINS 1–2
	4.096V REF	U10	LM4040BIM3–4.1	NOT INSTALLED
		R81	NOT INSTALLED	453 ohms 1%
ADC	10 BIT ADC	U9	TLC1543	NOT INSTALLED
	12 BIT ADC	U9	TLC2543	NOT INSTALLED
ETHERNET	ETHERNET	U13	RTL8019AS	NOT INSTALLED
		Q2	2N7002	NOT INSTALLED
		J6	RJ45	NOT INSTALLED
		Y3	20MHz XTAL	NOT INSTALLED
		R30	22K	NOT INSTALLED
		R82	11K	NOT INSTALLED
		R88	1.00M	NOT INSTALLED
		R89	ZERO ohm	NOT INSTALLED
		R85	200 ohms	NOT INSTALLED
		R94	330 ohms	NOT INSTALLED
		R97	330 ohms	NOT INSTALLED
		R80	4.7 ohms	NOT INSTALLED
		R95	4.7 ohms	NOT INSTALLED
		R153	27K	NOT INSTALLED
		C67	10pf	NOT INSTALLED
		C65	10pf	NOT INSTALLED
		C17	10nf	NOT INSTALLED
		C20	10nf	NOT INSTALLED
		C25	NOT INSTALLED	NOT INSTALLED
		C23	NOT INSTALLED	NOT INSTALLED
		C63	100nf	NOT INSTALLED
		C68	100nf	NOT INSTALLED
		DS2	GRN LED	NOT INSTALLED
		DS3	ORG LED	NOT INSTALLED

STUFFING TABLE

	CIRCUIT	PART	OPTION INSTALLED	OPTION NOT INSTALLED
	RELAY	K1	TQ2SA–4.5V	NOT INSTALLED
RELAY SUPPORT		Q11	2N7002	NOT INSTALLED
		D13	MMBD7000	NOT INSTALLED
		R117	47 ohms 1/4W	NOT INSTALLED
		R106	47 ohms 1/4W	NOT INSTALLED
		C42	100nf 250V	NOT INSTALLED
		C37	100nf 250V	NOT INSTALLED
OUTPUT PULL–UP/DOWN	OUTPUTS PULLED UP TO +K	R35	ZERO ohm	
		R32		NOT INSTALLED
		R34		NOT INSTALLED
	OUTPUTS PULLED UP TO +5V	R35		NOT INSTALLED
		R32	ZERO ohm	
		R34		NOT INSTALLED
	OUTPUTS PULLED DOWN TO GROUND	R34		NOT INSTALLED
		R32		NOT INSTALLED
		R34	ZERO ohm	
OUTPUT DRIVERS 0–9	DRIVER 0		CURRENT SINK	CURRENT SOURCE
		Q26	NOT INSTALLED	MMBT4403
		R122	ZERO ohm	1K
		R133	ZERO ohm	NOT INSTALLED
	DRIVER 1	R42	NOT INSTALLED	100K
		Q27	NOT INSTALLED	MMBT4403
		R123	ZERO ohm	1K
		R134	ZERO ohm	NOT INSTALLED
	DRIVER 2	R43	NOT INSTALLED	100K
		Q28	NOT INSTALLED	MMBT4403
		R124	ZERO ohm	1K
		R135	ZERO ohm	NOT INSTALLED
	DRIVER 3	R44	NOT INSTALLED	100K
		Q29	NOT INSTALLED	MMBT4403
		R125	ZERO ohm	1K
		R136	ZERO ohm	NOT INSTALLED
	DRIVER 4	R45	NOT INSTALLED	100K
		Q30	NOT INSTALLED	MMBT4403
		R126	ZERO ohm	1K
		R137	ZERO ohm	NOT INSTALLED
	DRIVER 5	R46	NOT INSTALLED	100K
		Q31	NOT INSTALLED	MMBT4403
		R127	ZERO ohm	1K
		R138	ZERO ohm	NOT INSTALLED
	DRIVER 6	R47	NOT INSTALLED	100K
		Q32	NOT INSTALLED	MMBT4403
		R128	ZERO ohm	1K
		R139	ZERO ohm	NOT INSTALLED
	DRIVER 7	R48	NOT INSTALLED	100K
		Q33	NOT INSTALLED	MMBT4403
		R129	ZERO ohm	1K
		R140	ZERO ohm	NOT INSTALLED
	DRIVER 8	R49	NOT INSTALLED	100K
		Q24	NOT INSTALLED	MMBT4403
		R120	ZERO ohm	1K
		R131	ZERO ohm	NOT INSTALLED
	DRIVER 9	R40	NOT INSTALLED	100K
		Q25	NOT INSTALLED	MMBT4403
		R121	ZERO ohm	1K
		R132	ZERO ohm	NOT INSTALLED
INPUT PULL–UP/DOWN	INPUTS PULLED UP TO +5V	JP6	ZERO ohm ACROSS PINS 1–2	
	INPUTS PULLED DOWN TO GROUND	JP6	ZERO ohm ACROSS PINS 2–3	

BL20XX OPTION TABLE

CIRCUIT OPTION	BL2000	BL2010	BL2020	BL2030
FLASH DENSITY	256K	256K	256K	256K
FLASH BANK SELECT	DISABLED	DISABLED	DISABLED	DISABLED
SRAM DENSITY	128K	128K	128K	128K
DAC_0	INSTALLED	NOT INSTALLED	INSTALLED	NOT INSTALLED
DAC_1	INSTALLED	NOT INSTALLED	INSTALLED	NOT INSTALLED
DAC POWER	4.096V	4.096V	4.096V	4.096V
4.096V REF	INSTALLED	NOT INSTALLED	INSTALLED	NOT INSTALLED
10 BIT ADC	NOT INSTALLED	INSTALLED	NOT INSTALLED	INSTALLED
12 BIT ADC	INSTALLED	NOT INSTALLED	INSTALLED	NOT INSTALLED
ETHER–NET	INSTALLED	INSTALLED	NOT INSTALLED	NOT INSTALLED
OUTPUT CURRENT 0	SINKING	SINKING	SINKING	SINKING
OUTPUT CURRENT 1	SINKING	SINKING	SINKING	SINKING
OUTPUT CURRENT 2	SINKING	SINKING	SINKING	SINKING
OUTPUT CURRENT 3	SINKING	SINKING	SINKING	SINKING
OUTPUT CURRENT 4	SINKING	SINKING	SINKING	SINKING
OUTPUT CURRENT 5	SINKING	SINKING	SINKING	SINKING
OUTPUT CURRENT 6	SINKING	SINKING	SINKING	SINKING
OUTPUT CURRENT 7	SINKING	SINKING	SINKING	SINKING
OUTPUT CURRENT 8	SINKING	SINKING	SINKING	SINKING
OUTPUT CURRENT 9	SINKING	SINKING	SINKING	SINKING
OUTPUT PULL UP/DOWN	PULLED TO +5V	PULLED TO +5V	PULLED TO +5V	PULLED TO +5V
INPUT PULL UP/DOWN	PULLED TO +5V	PULLED TO +5V	PULLED TO +5V	PULLED TO +5V