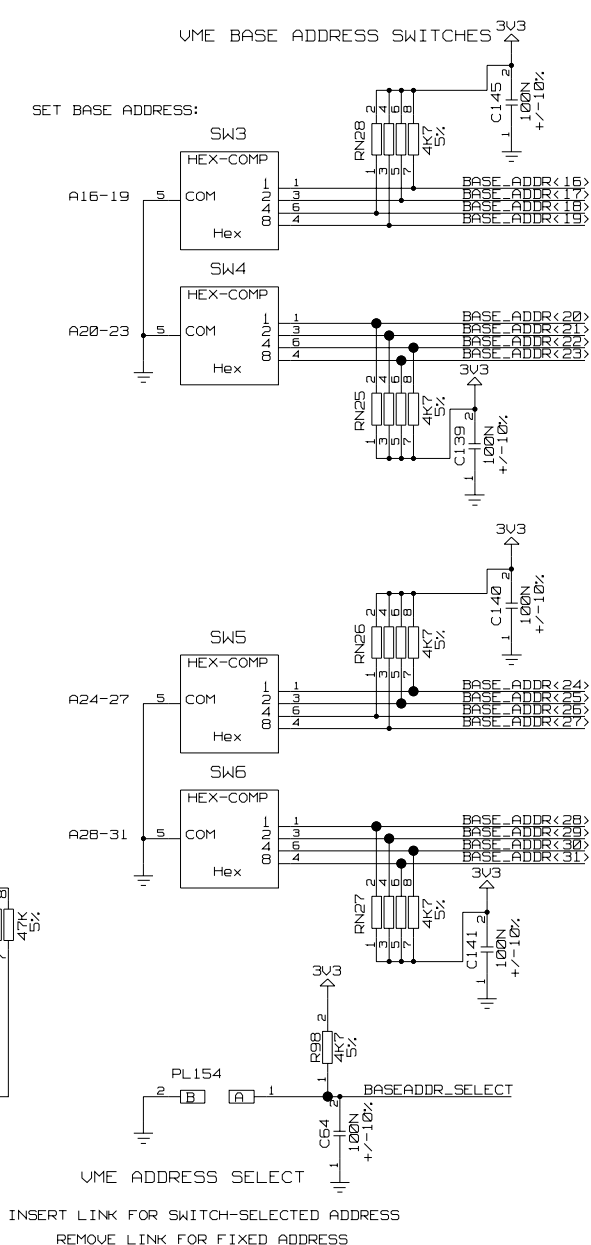


VME DELAYS AND BASE SELECT

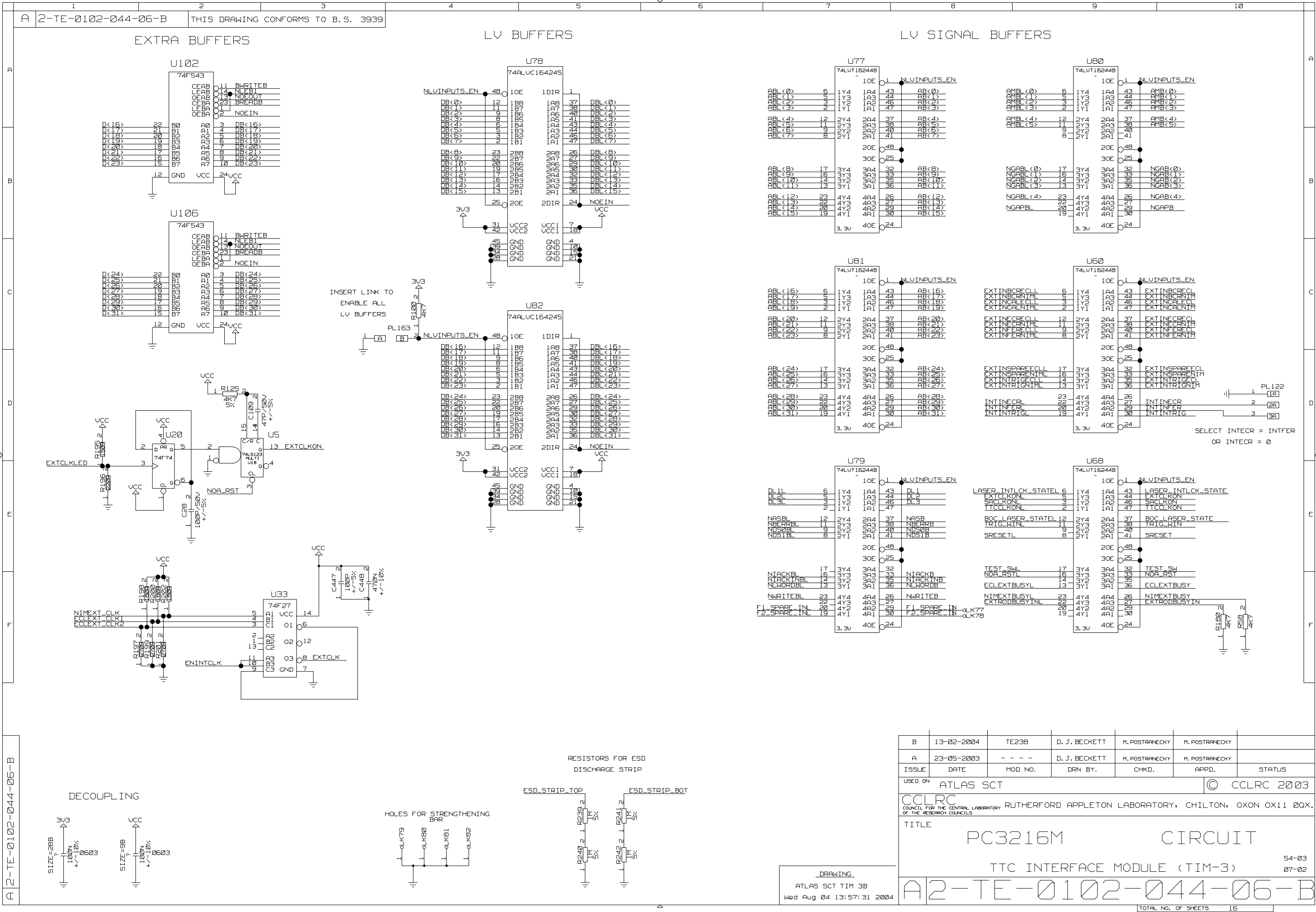


INSERT LINK TO BYPASS
VME INTERRUPTS DAISY CHAIN

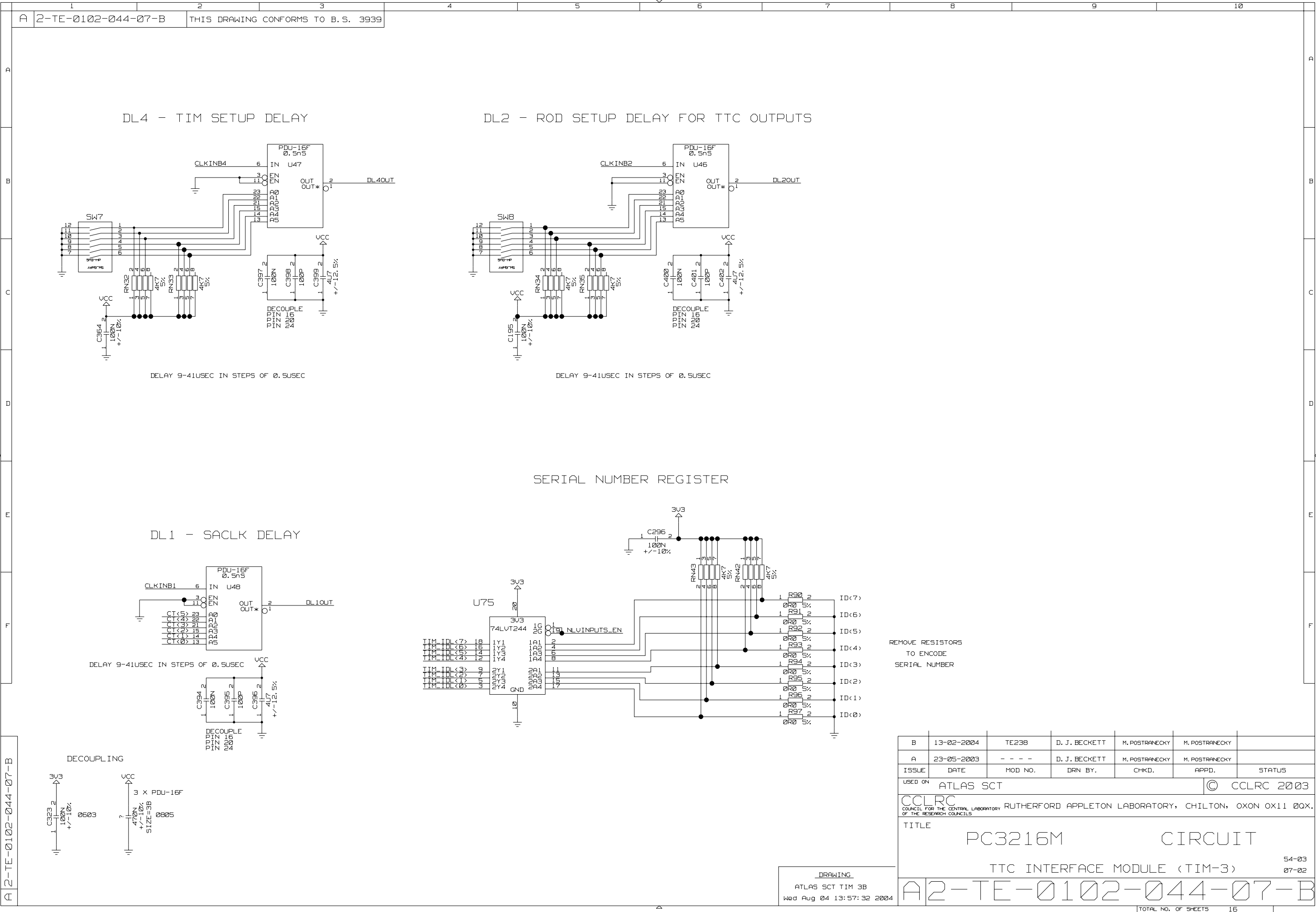
B	13-02-2004	TE238	D. J. BECKETT	M. POSTRANECKY	M. POSTRANECKY	
A	23-05-2003	- - - -	D. J. BECKETT	M. POSTRANECKY	M. POSTRANECKY	
ISSUE	DATE	MOD NO.	DRN BY.	CHKD.	APPD.	STATUS
USED ON					ATLAS SCT	
					© CCLRC 2003	

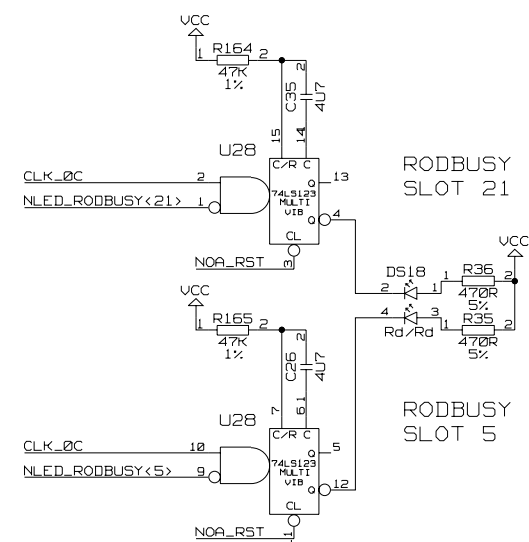
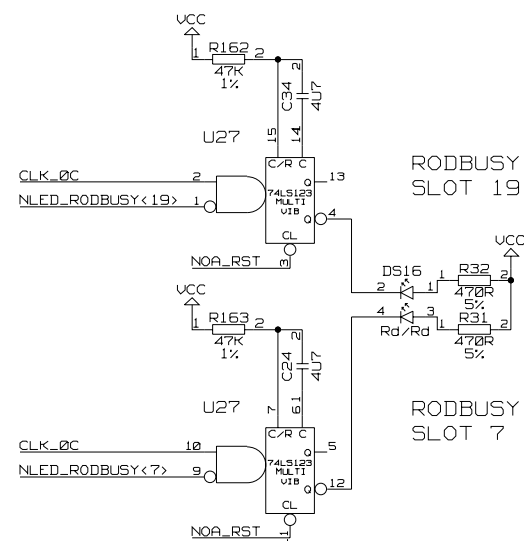
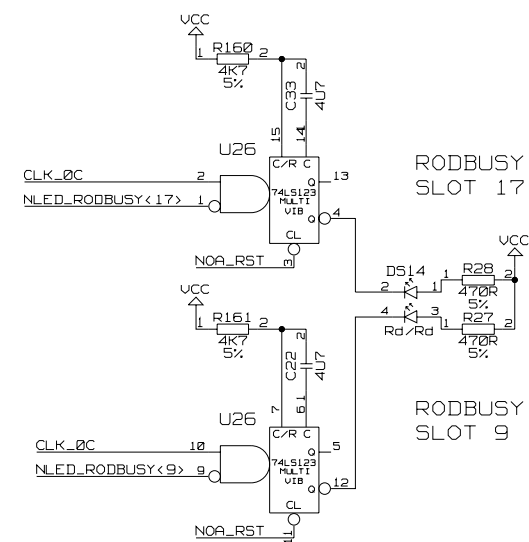
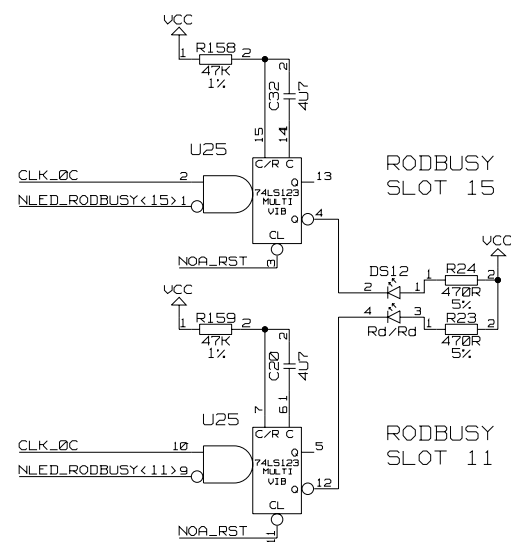
CCLRC
COUNCIL FOR THE CENTRAL LABORATORY RUTHERFORD APPLETON LABORATORY, CHILTON, OXON OX11 0QX

OF THE RESEARCH COUNCILS	
TITLE	
PC3216M	CIRCUIT
TTC INTERFACE MODULE (TIM-3)	54-03 07-02
A2-TE-0102-044-05-E	



B	13-02-2004	TE238	D. J. BECKETT	M. POSTRANECKY	M. POSTRANECKY	
A	23-05-2003	- - - -	D. J. BECKETT	M. POSTRANECKY	M. POSTRANECKY	
ISSUE	DATE	MOD NO.	DRN BY.	CHKD.	APPD.	STATUS
USED ON ATLAS SCT					© CCLRC 2003	
CCLRC COUNCIL FOR THE CENTRAL LABORATORY OF THE RESEARCH COUNCILS						
RUTHERFORD APPLETON LABORATORY, CHILTON, OXON OX11 0QX.						
TITLE						
PC3216M CIRCUIT						
TTC INTERFACE MODULE (TIM-3)						
54-03 07-02						
A2-TE-0102-044-06-B						
TOTAL NO. OF SHEETS					16	





SIZE=8B
?
100N
+/-10%
CC

CCLRC RUTHERFORD APPLETON LABORATORY, CHILTON, OXON OX11 0QX.

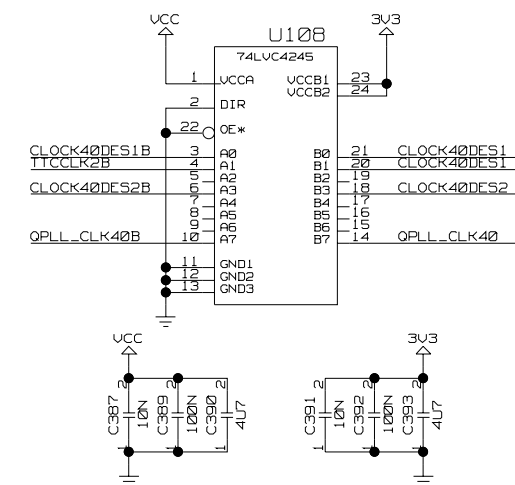
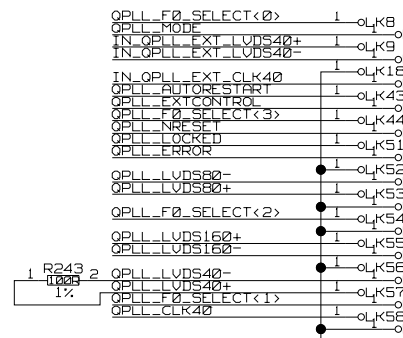
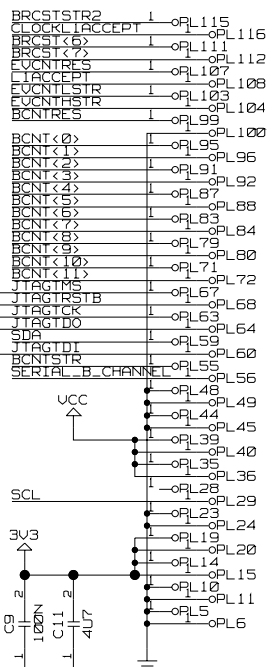
TTC INTERFACE MODULE (TIM-3)

A|2-TE-0102-044-09-B

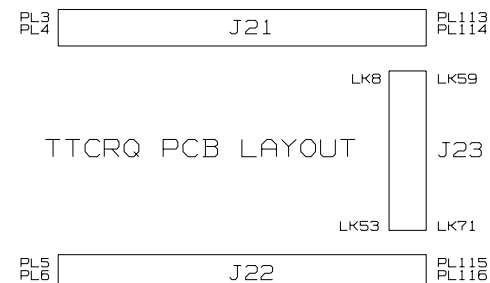
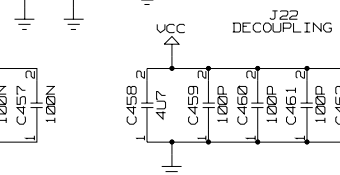
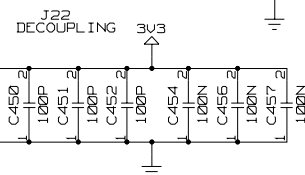
TTCRQ DAUGHTER BOARD CONNECTORS

STRAIGHT RECEPTACLE CONTACTS PRECI-DIP 714-91-125-31-001
1X DOUBLE ROW OF 13 CONTACTS

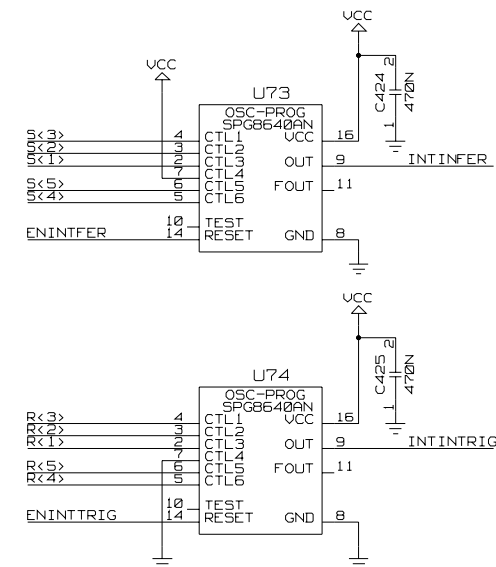
TTC J23



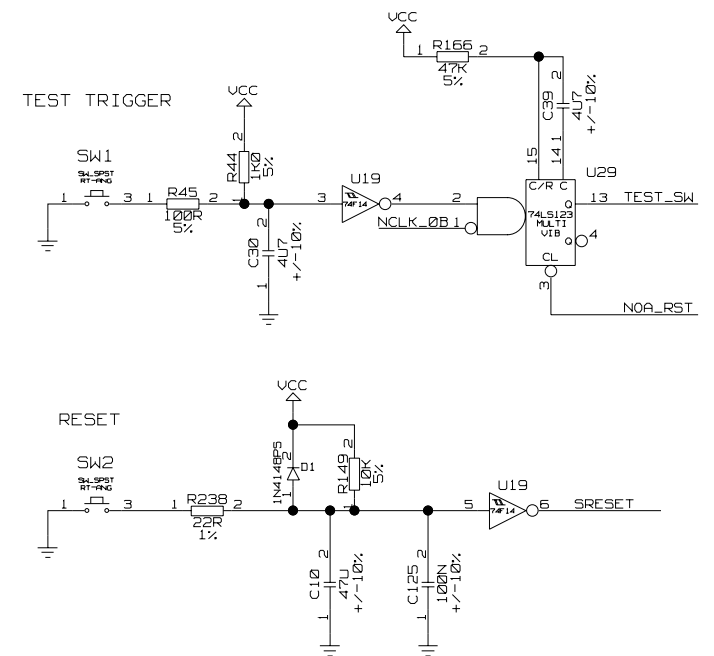
TTCRQ PCB LAYOUT



TEST SWITCHES

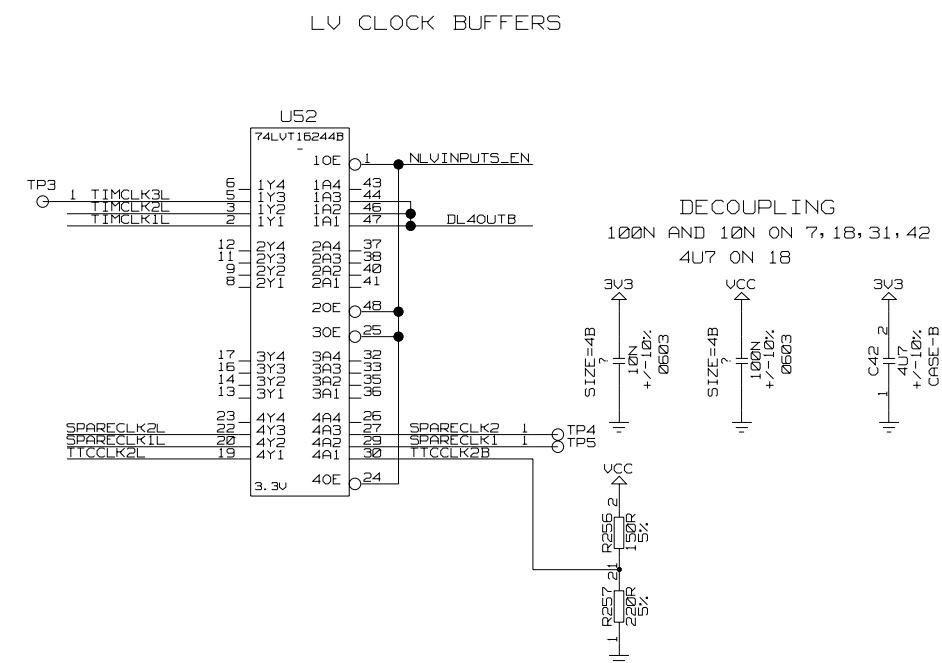
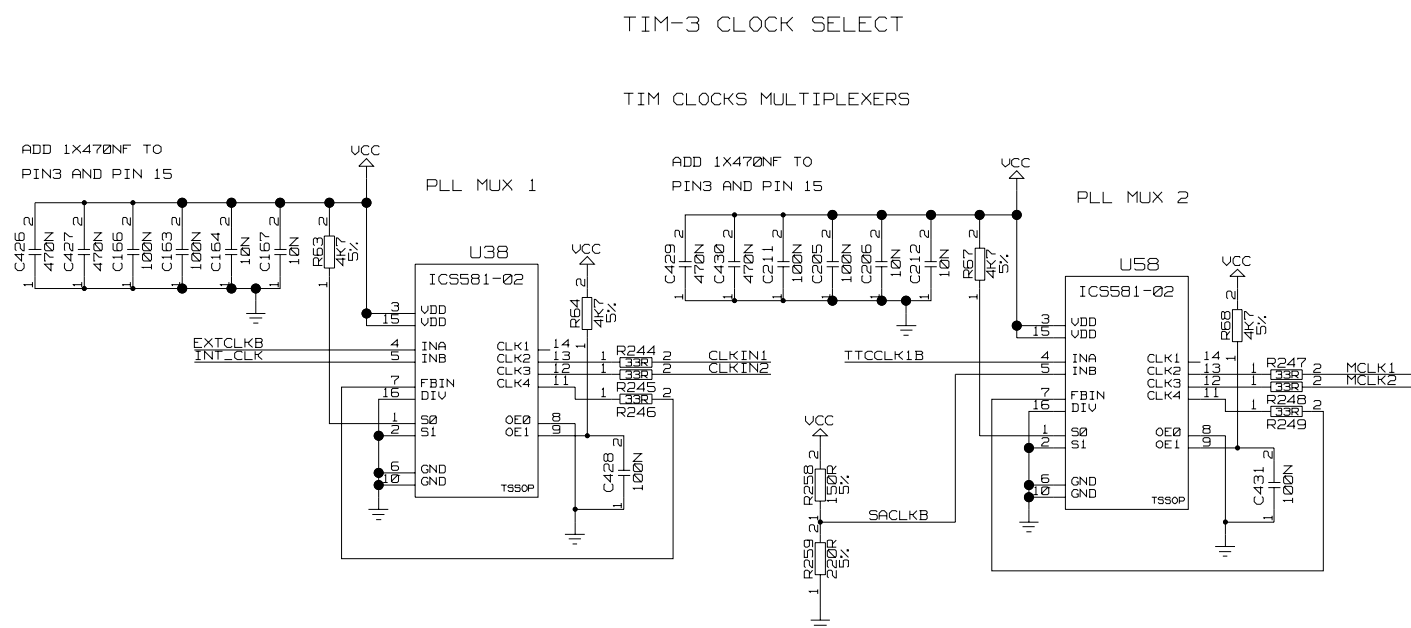


REPEAT TRIGGER = C2
SET FREQUENCY IN THE
RANGE 50HZ-600KHZ

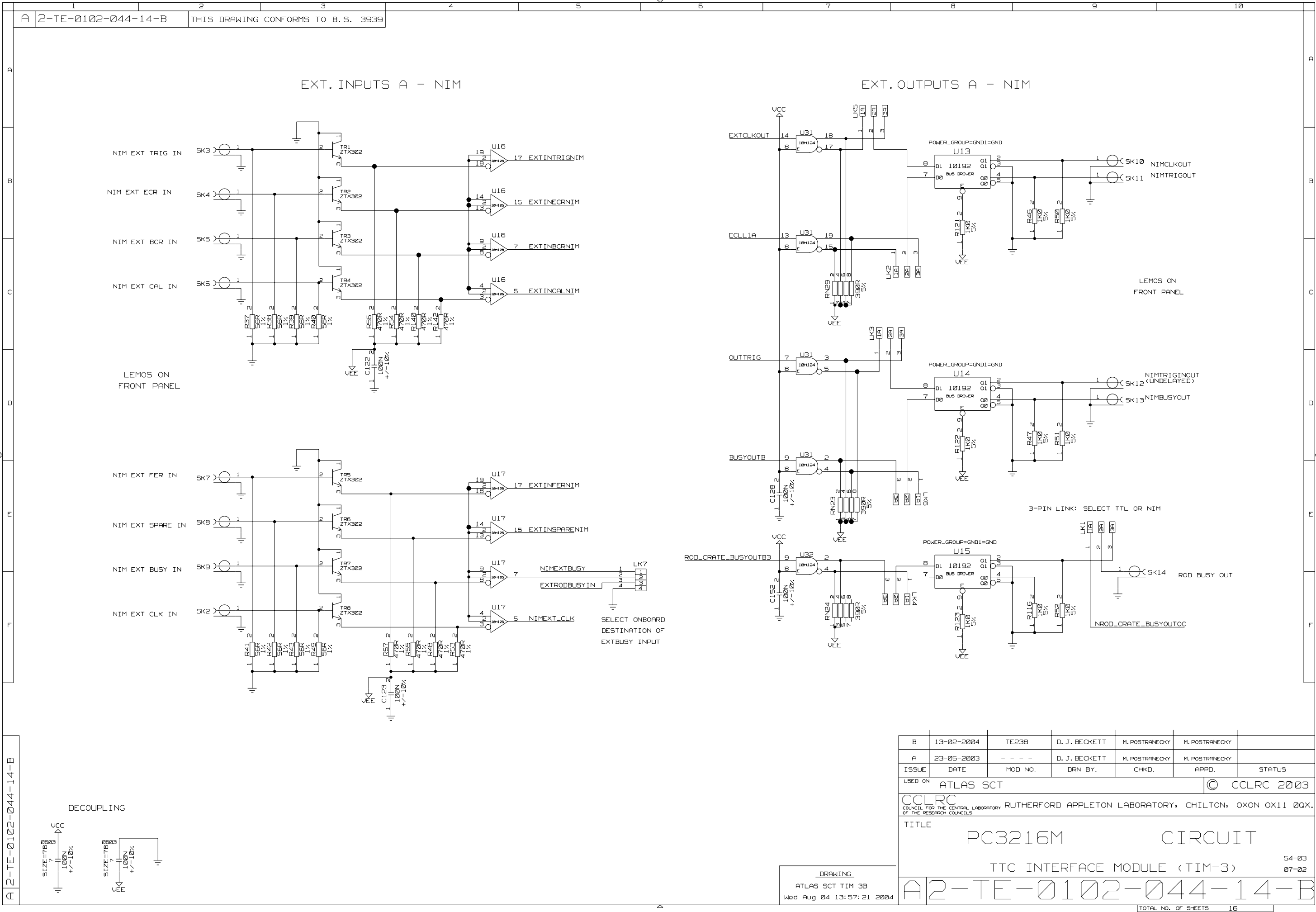


SIZE=7B
?
100N
+/-10%
VCC

B	13-02-2004	TE23B	D. J. BECKETT	M. POSTRANECKY	M. POSTRANECKY	
A	23-05-2003	- - - -	D. J. BECKETT	M. POSTRANECKY	M. POSTRANECKY	
ISSUE	DATE	MOD NO.	DRN BY.	CHKD.	APPD.	STATUS
USED ON					ATLAS SCT	
					© CCLRC 2003	
CCLRC COUNCIL FOR THE CENTRAL LABORATORY RUTHERFORD APPLETON LABORATORY, CHILTON, OXON OX11 0QX. OF THE RESEARCH COUNCILS						
TITLE PC3216M CIRCUIT						
TTC INTERFACE MODULE (TIM-3)						
A2-TE-0102-044-10-B						



B	13-02-2004	TE238	D. J. BECKETT	M. POSTRANEKY	M. POSTRANEKY	
A	23-05-2003	- - - -	D. J. BECKETT	M. POSTRANEKY	M. POSTRANEKY	
ISSUE	DATE	MOD NO.	DRN BY.	CHKD.	APPD.	SSTATUS
USED ON					ATLAS SCT	
					© CCLRC 2003	
CCLRC COUNCIL FOR THE CENTRAL LABORATORY OF THE RESEARCH COUNCILS						
RUTHERFORD APPLETON LABORATORY, CHILTON, OXON OX11 0QX.						
TITLE						
PC3216M CIRCUIT						
TTC INTERFACE MODULE (TIM-3)						
54-03 07-02						
A2-TE-0102-044-11-B						



EXT. OUTPUTS A - NIM

U31

14

EXTCLKOUT

U31

18

17

U31

19

15

U31

3

OUTTRIG

U31

2

BUSYOUTB

U32

2

ROD_CRATE_BUSYOUTB3

U13

01

10192

BUS DRIVER

U14

01

10192

BUS DRIVER

U15

01

10192

BUS DRIVER

SK10

NIMCLKOUT

SK11

NIMTRIGOUT

SK12

NIMTRIGINOUT

SK13

NIMBUSYOUT

SK14

ROD BUSY OUT

LEMONS ON
FRONT PANEL

3-PIN LINK: SELECT TTL OR NIM

DECOUPLING

SIZE=7003

100N

+/-10%

SIZE=7003

100N

+/-10%

DRAWING

ATLAS SCT TIM 3B

Wed Aug 04 13:57:21 2004

PC3216M

CIRCUIT

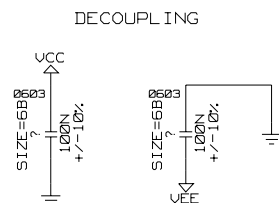
TTC INTERFACE MODULE (TIM-3)

54-03



07-02

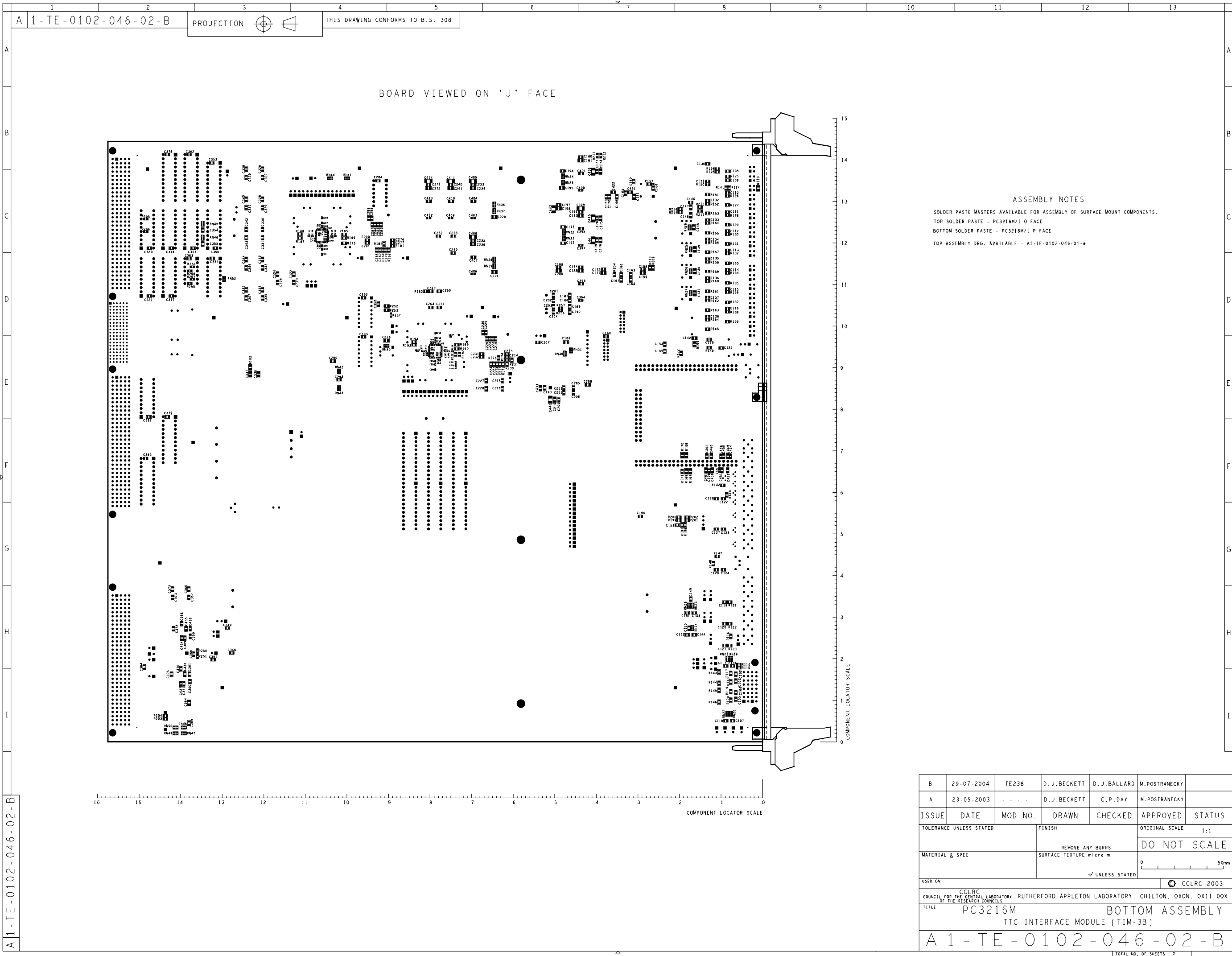
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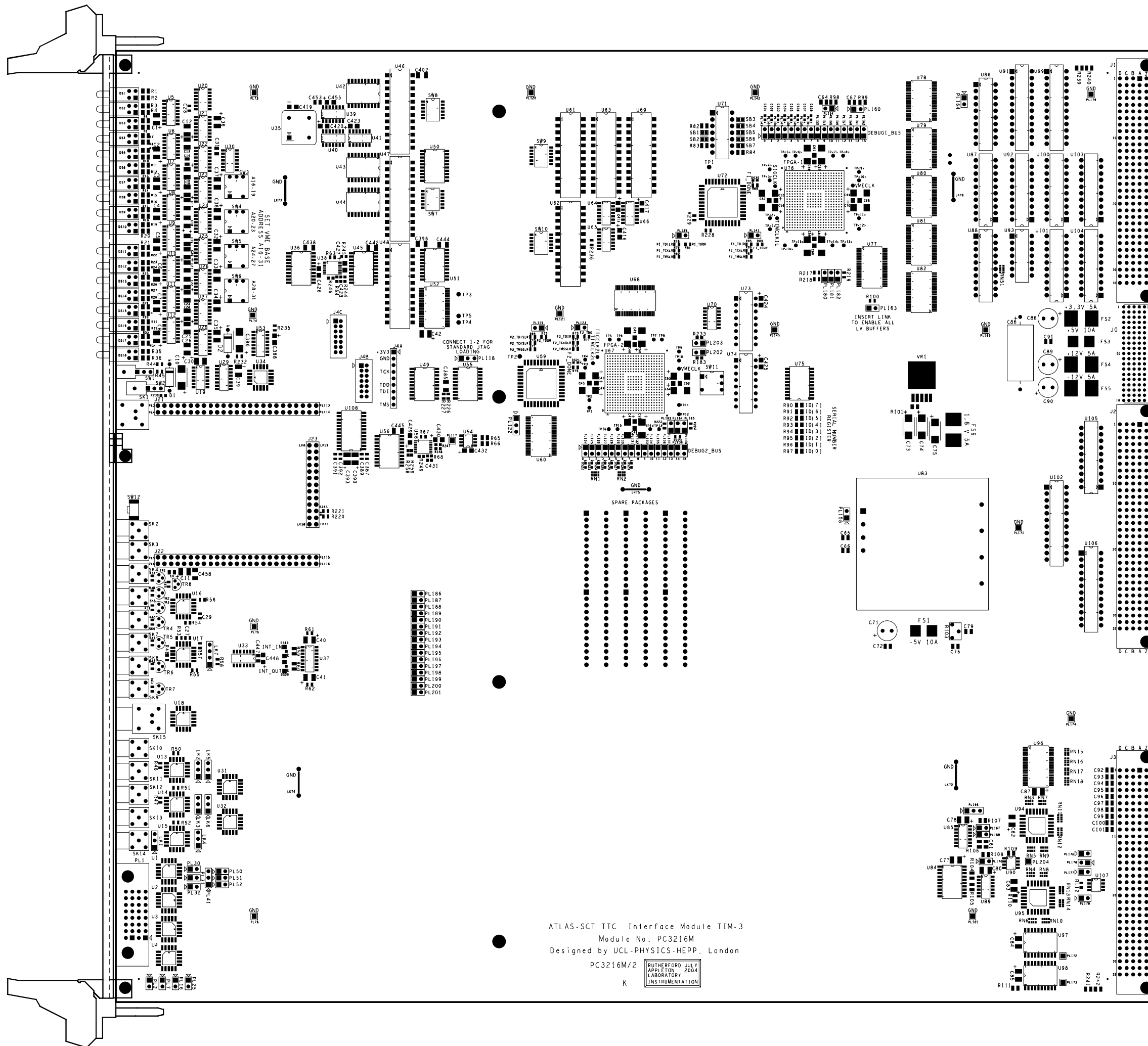
TOTAL NO. OF SHEETS 16



B	13-02-2004	TE238	D. J. BECKETT	M. POSTRANECKY	M. POSTRANECKY	
A	23-05-2003	- - - -	D. J. BECKETT	M. POSTRANECKY	M. POSTRANECKY	
ISSUE	DATE	MOD NO.	DRN BY.	CHKD.	APPD.	STATUS
USED ON					ATLAS SCT	
					© CCLRC 2003	
CCLRC COUNCIL FOR THE CENTRAL LABORATORY RUTHERFORD APPLETON LABORATORY, CHILTON, OXON OX11 0QX. OF THE RESEARCH COUNCILS						
TITLE <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">PC3216M</div> <div style="text-align: center;">CIRCUIT</div> </div> <div style="display: flex; justify-content: space-between; align-items: center;"> <div>TTC INTERFACE MODULE (TIM-3)</div> <div>54-03 07-02</div> </div>						
<div style="display: flex; align-items: center;"> <div style="border: 1px solid black; padding: 5px; margin-right: 10px;">A2-TE-0102-044-15-B</div> <div style="border: 1px solid black; padding: 5px; margin-right: 10px;">TOTAL NO. OF SHEETS</div> <div style="border: 1px solid black; padding: 5px; margin-right: 10px;">16</div> <div style="border: 1px solid black; padding: 5px; margin-right: 10px;">DATE</div> <div style="border: 1px solid black; padding: 5px; margin-right: 10px;">BY</div> <div style="border: 1px solid black; padding: 5px; margin-right: 10px;">SIGNATURE</div> <div style="border: 1px solid black; padding: 5px; margin-right: 10px;">REMARKS</div> </div>						

B	29-07-2004	TE238	D. J. BECKETT	D. J. BALLARD	M. POSTRANECKY	
A	23-05-2003	- - - -	D. J. BECKETT	C. P. DAY	M. POSTRANECKY	
ISSUE	DATE	MOD NO.	DRAWN	CHECKED	APPROVED	STATUS
TOLERANCE UNLESS STATED			FINISH REMOVE ANY BURRS SURFACE TEXTURE micro m		ORIGINAL SCALE	1:1
					DO NOT SCALE	
MATERIAL & SPEC			SURFACE TEXTURE micro m		0  50mm	
USED ON					 CCLRC 2003	
CCLRC COUNCIL FOR THE CENTRAL LABORATORY OF THE RESEARCH COUNCILS			RUTHERFORD APPLETON LABORATORY, CHILTON, OXON. OX11 0OX			
TITLE			PC3216M TOP ASSEMBLY TTC INTERFACE MODULE (TIM-3B)			
A 1 - T E - 0 1 0 2 - 0 4 6 - 0 1 - B						





K COMPONENT IDENT

KITTING LIST for: PC3216M

OM Job No:

Engineer	Designer	PC Issue	Circuit Issue	Qty	Cost Centre	Checked & Approved (Signed & dated)
M.POSTRANECKY	D.J.BECKETT	2	B			

Comp Ref	Manufacturer & Part No or Supplier's Name & Part No	Part Description	Board Qty	Kit Qty	Kit	Kit	Kit	Kit	Not Issued	Check	Comments
-	PC3216M/2	PC Board	1								-
C1-8 C11-13 C15-26 C30 C32-42 C77 C78 C80 C82-85 C87 C390 C393	AVX-KYOCERA TAJB475K016R	4.7uF SMD 16V Capacitor, Case Size B	45								-
C9 C64-67 C72 C76 C79 C81 C91-101 C139-141 C145 C186 C195 C220 C221 C278 C296 C336 C337 C364	AVX-KYOCERA CM21X7R104K25VAT	100nF SMD Capacitor, 0805	33								-
C10 C386	AVX-KYOCERA TAJD476K016R	47uF SMD 16V Capacitor, Case Size D	2								-
C14 C31	Siemens B37940K5470J60	47pF SMD Capacitor, 50V, 0805	2								-
C27 C29 C102-108 C110-138 C143 C144 C146 C149-155 C157 C158 C160 C162 C163 C166 C168 C172 C177-180 C182 C184 C188 C189 C191-194 C196 C197 C199 C202 C203 C205 C209 C211 C214-216 C222 C224 C227-229 C231-233 C235 C238-240 C250-252 C263 C264 C271 C276 C277 C281 C283 C284 C286-290 C292-294 C322-335 C338-358 C361-363 C365-384 C389 C392 C394 C397 C400 C403 C406 C409 C412 C418 C428 C431 C454 C456 C457	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603	183								-
C28 C156 C165 C170 C171	Farnell 722-080	100pF NPO Capacitor, 0603	5								-
C43 C44 C46 C47 C50 C51 C53-56 C58 C59 C62 C63 C69 C70	AVX TAJC476K010R	47uF SMD 10V Capacitor, Case Size C	16								-
C45 C48 C49 C52 C57 C60 C61 C68	AVX-KYOCERA TAJA105K016R	1uF SMD 16V Capacitor, Case Size A	8								-
C71 C88-90	Farnell 920-460	470uF 16V Electrolytic	4								-
C73 C74	AVX-KYOCERA TPSE477K010R0050	470uF SMD 10V Low ESR Capacitor, Case Size E	2								-
C75	AVX TPSD107K010R0100	100uF SMD 10V Capacitor, Case Size D	1								-
C86	Farnell 912-967	1000uF 16V Axial Electrolytic	1								-
C109	Farnell 722-042	47pF NPO Capacitor, 0603	1								-

KITTING LIST for: PC3216M

OM Job No:

Comp Ref	Manufacturer & Part No or Supplier's Name & Part No	Part Description	Board Qty	Kit Qty	Kit	Kit	Kit	Kit	Not Issued	Check	Comments
C142 C159 C169 C173-176 C181 C183 C185 C198 C200 C208 C210 C234 C236 C241 C272	AVX-KYOCERA CM21X7R474K16VAT	470nF SMD Capacitor, 0805	18								-
C147 C148 C395 C398 C401 C404 C407 C410 C413 C421 C422 C433-437 C447 C449-453 C459-462	RS 298-9258	100pF SMD Capacitor, 0805, COG Dielectric, 100V	26								-
C161	AVX-KYOCERA CM21X7R334K16VAT	330nF SMD Capacitor, 0805	1								-
C164 C167 C206 C212	CC0603HY5V103ZTR	10nF SMD Capacitor, 0603	4								-
C187 C190 C201 C204 C207 C213 C217-219 C223 C225 C226 C230 C279 C280 C282 C285 C291 C359 C360 C387 C391	AVX-KYOCERA 06033C103KAT00J	10nF SMD Capacitor, 0603	22								-
C237 C244 C247-249 C255 C260 C265-267 C270 C275 C298 C301-303 C306 C311 C314-316 C319	Murata GRP155R61A104KA01E	100nF X5R Capacitor, 0402, 10V	22								-
C242 C243 C245 C246 C253 C254 C256-259 C261 C262 C268 C269 C273 C274 C295 C297 C299 C300 C304 C305 C307-310 C312 C313 C317 C318 C320 C321	Farnell 578-149	10nF SMD Capacitor, 0402	32								-
C385 C396 C399 C402 C405 C408 C411 C414 C438-446 C458	Flint CC1206CX5R475KTR	4.7uF X5R 16V Capacitor, 1206	18								-
C388	AVX-KYOCERA TPSA106K010R	10uF SMD 10V Capacitor,Low ESR, Case Size A	1								-
C415-417 C419 C420 C423-427 C429 C430 C432 C448 C455	AVX-KYOCERA TAJA474K025R	470nF SMD 25V Capacitor, Case Size A	15								-
D1 D2	Farnell 368-106	1N4148PS, Small Signal Diode	2								-
DS1 DS2	Schroff 69004-287	Bi-Level Low Current Green/Green 3.2mm LED	2								-
DS3	Schroff 69004-127	Bi-Level Standard Red/Green 3.2mm LED	1								-
DS4 DS6	Schroff 69004-126	Bi-Level Standard Yellow/Yellow 3.2mm LED	2								-
DS5 DS7 DS11-18	Schroff 69004-124	Bi-Level Standard Red/Red 3.2mm LED	10								-
DS8-10	Schroff 69004-125	Bi-Level Standard Green/Green 3.2mm LED	3								-
DS19 DS20	Agilent Technologies HSMD-S660	Rt-Ang Surface Mount Orange LED	2								-
DS21-38	HP HSMC-H690	Surface Mount Flip-Chip Red LED, Metric	18								-
FS1 FS3	Littelfuse R451.010	10A SMD Fuse, no holder - see comments, Nano2 Series	2								-
FS2 FS4-6	RS 344-5096	5A SMD Fuse in Holder, OMF63 Series	4								-

KITTING LIST for: PC3216M

OM Job No:

Comp Ref	Manufacturer & Part No or Supplier's Name & Part No	Part Description	Board Qty	Kit Qty	Kit	Kit	Kit	Kit	Not Issued	Check	Comments
J0	Harting 17250952102	95 Way HARBUS HM Shielded Rt-Angle Socket, Press fit	1								-
J1-3	Harting 02011602101	160way Rt-Ang Plug Har-Bus 64 System	3								-
J4C	FCI 98414-S08-14U	2mm pitch 2x7 pin Vertical Shrouded Header, PTH	1								-
J4B	Molex 87331-1420	Molex Straight 2mm pitch 2x7 pin Header, PTH	1								-
J4A	Harwin M20-999 09 05	Harwin Straight 9 pin Header	1								-
LK1-6 PL41 PL118 PL122 PL166	Harwin M20-999 03 05	Harwin Straight 3 pin Header	10								-
LK7	Harwin M20-999 04 05	Harwin Straight 4 pin Header	1								-
LK72-76	Farnell 175-319	2 pin 0.4 inch pitch Jumper	5								-
PL1	3M 3408-D303	32-Pin Condo double-header, PCB RT-ANG	1								-
PL2 PL7 PL16 PL25 PL30-32 PL50-52 PL119 PL123-141 PL143 PL144 PL146-164 PL167 PL168 PL170 PL175-178 PL180-203	Harwin M20-999 02 05	Harwin Straight 2 pin Header	82								-
PL73-76 PL117 PL120 PL121 PL142 PL145 PL165 PL169 PL171-174 PL179 PL204	Harwin M20-999 20 05	Harwin Straight 1 pin Header	17								-
R1 R2 R6-36 R59 R60 R113	Farnell 613-058	470R SMD Resistor, 0.1W, 0805	36								-
R3	Farnell 613-034	330R SMD Resistor, 0.1W, 0805	1								-
R4 R106	Farnell 613-095	1K0 SMD Resistor, 0.1W, 0805	2								-
R5	Farnell 613-071	680R SMD Resistor, 0.1W, 0805	1								-
R37-43 R49	Farnell 911-082	56R SMD Resistor, 0.063W, 0603	8								-
R44 R46 R47 R50-52 R116 R121-123 R141	Rohm MCR03EZHJ102	1K0 SMD Resistor, 0.1W, 0603	11								-
R45 R112 R172	Rohm MCR03EZHJ101	100R SMD Resistor, 0.1W, 0603	3								-
R48 R53-57 R140 R142 R147 R148	Farnell 911-197	470R SMD Resistor, 0.063W, 0603	10								-
R58 R63 R64 R67 R68 R100 R125 R152 R153 R160 R161 R174 R175 R180-183 R226 R233 R234 R237	Rohm MCR03EZHJ472	4K7 SMD Resistor, 0.1W, 0603	21								-
R61 R62 R124 R126-139 R150 R151 R154-159 R162-165 R205-208 R235 R236 R254	Farnell 911-434	47K SMD Resistor, 0.063W, 0603	36								-
R65 R66 R109	Farnell 613-022	270R SMD Resistor, 0.1W, 0805	3								-
R69-75 R77-81 R85-87 R89 R220 R221 R228-231	Farnell 772-227	0R0 SMD Resistor, 0.063W, 0603	22								-

KITTING LIST for: PC3216M

OM Job No:

Comp Ref	Manufacturer & Part No or Supplier's Name & Part No	Part Description	Board Qty	Kit Qty	Kit	Kit	Kit	Kit	Not Issued	Check	Comments
R76 R88 R186 R188 R190 R192 R194 R196 R204 R210 R212 R215 R216 R257 R259	Rohm MCR03EZHJ221	220R SMD Resistor, 0.1W, 0603	15								-
R82-84 R90-97 R173 R252 R253	Farnell 772-239	0R0 SMD Resistor, 0.1W, 0805	14								-
R98 R99 R104 R105 R108 R111	Farnell 613-174	4.7K SMD Resistor, 0.1W, 0805	6								-
R101 R102 R167-170	Farnell 613-216	10K SMD Resistor, 0.1W, 0805	6								-
R103	Farnell 347-681	100K, 3266W Variable Resistor, 0.25W	1								-
R107 R166	Farnell 613-290	47K SMD Resistor, 0.1W, 0805	2								-
R110	Farnell 612-972	100R SMD Resistor, 0.1W, 0805	1								-
R114 R185 R187 R189 R191 R193 R195 R203 R209 R211 R213 R214 R250 R256 R258	Farnell 612-388	150R SMD Resistor, 0.063W, 0603	15								-
R115 R251	Farnell 911-150	220R SMD Resistor, 0.063W, 0603	2								-
R117-120 R143-146	Rohm MCR03EZPF101	100R SMD Resistor, 0.063W, 0603	8								-
R149 R171 R232 R255	Rohm MCR03EZHJ103	10K SMD Resistor, 0.1W, 0603	4								-
R176 R184	Rohm MCR03EZHJ332	3K3 SMD Resistor, 0.1W, 0603	2								-
R177 R179	Farnell 195-030	1K0 SMD Resistor, 0.063W, 0402	2								-
R178	Farnell 195-110	4K7 SMD Resistor, 0.063W, 0402	1								-
R197 R199 R201	Farnell 911-161	270R SMD Resistor, 0.063W, 0603	3								-
R198 R200 R202	Rohm MCR03EZHJ181	180R SMD Resistor, 0.1W, 0603	3								-
R217-219 R222-224	Farnell 911-318	4K7 SMD Resistor, 0.063W, 0603	6								-
R225	Farnell 194-918	100R SMD Resistor, 0.063W, 0402,5%	1								-
R227	Rohm MCR03EZHJ220	22R SMD Resistor, 0.063W, 0603	1								-
R238	Farnell 911-033	22R SMD Resistor, 0.063W, 0603	1								-
R239-242	Farnell 613-459	1M0 SMD Resistor, 0.1W, 0805	4								-
R243	Farnell 360-3209	100R SMD Resistor, 0.063W, 0402	1								-
R244-249	Farnell 911-057	33R SMD Resistor, 0.063W, 0603	6								-
RN1 RN2 RN41 RN44 RN48 RN50	Farnell 776-660	220R, ARC241, 4-isolated Resistors, 0.062W	6								-
RN3-14	Farnell 307-0153	270R, ARC241, 4-isolated Resistors, 0.062W	12								-
RN15-18	Farnell 776-762	10K, ARC241, 4-isolated Resistors, 0.062W	4								-
RN19-22	Farnell 776-683	470R, ARC241, 4-isolated Resistors, 0.062W	4								-
RN23 RN24 RN29	Farnell 307-0165	390R, ARC241, 4-isolated Resistors, 0.062W	3								-
RN25-28 RN30-35 RN40 RN42 RN43 RN45 RN46	Farnell 776-749	4K7, ARC241, 4-isolated Resistors, 0.062W	15								-
RN36-39	Farnell 776-701	1K, ARC241, 4-isolated Resistors, 0.062W	4								-
RN47 RN49	Farnell 776-658	150R, ARC241, 4-isolated Resistors, 0.062W	2								-

KITTING LIST for: PC3216M

OM Job No:

Comp Ref	Manufacturer & Part No or Supplier's Name & Part No	Part Description	Board Qty	Kit Qty	Kit	Kit	Kit	Kit	Not Issued	Check	Comments
RN51 RN52	Farnell 776-804	47K, ARC241, 4-isolated Resistors, 0.062W	2								-
SK1 SK15	Lemo EPG.302.HLN	Lemo Socket, 2 Female PCB Mount	2								-
SK2-14	Lemo EPL.00.250.DTN	Lemo Rt-Angle Socket Size 00, PCB Mount	13								-
SW1 SW2	RS 664-389	SPST Right-Angle Momentary Switch	2								-
SW3-6 SW11	Farnell 146-199	Sealed PCB Mount Vert Rotary Hex Switch	5								-
SW7-10	Thomas & Betts GDH06S	6way SMD Half Pitch Switch	4								-
SW12	ITT Cannon KSS221G	Subminiature side-activated rt-ang SPST (NO) Momentary Switch	1								-
TP1-5	Vero 20-2137D	Black 1.02mm Test Point	5								-
TR1-8	Farnell 358-010	General Purpose Switching NPN Transistor	8								-
U1 U4 U18 U31 U32	Motorola MC10H124FN	Quad TTL to ECL Translator	5								-
U2 U3 U16 U17 U34	Motorola MC10H125FN	Quad ECL to TTL Translator	5								-
U5-12 U21-29 U37 U53	TI SN74LS123D	SMD Dual Monostable	19								-
U13-15	Motorola MC10192FN	Quad Bus Driver	3								-
U19	Philips N74F14D	SMD Hex Schmitt-Trigger Inverters	1								-
U20 U30	Philips N74F74D	SMD Dual D-Type Positive-Edge Trigger Flip-Flops	2								-
U33	Philips N74F27D	Triple 3-Input NOR Gate, SOIC	1								-
U35	ECM GBS-204-80.15733-A	80.15733 MHz Crystal Clock Oscillator	1								-
U36 U42-45 U50 U51 U56	Philips 74ABT541D	SMD Octal Buffer, 3-state	8								-
U38 U58	ICS ICS581-02	Zero-Delay Glitch Free Clock Multiplexer	2								-
U39	Philips 74ABT04D	SMD Hex Invertors	1								-
U40 U41 U64	Philips N74ABT74D	Dual D-Type Flip-Flop	3								-
U46-48 U61-63 U69	Data Delay Devices PDU-16F-.5A4	6 Bit Programmable Delay Unit, TTL 0.5nS Steps, Gull-Wing	7								-
U49 U55 U75 U84	Philips 74LVT244AD	3-State Low Voltage Octal Buffer	4								-
U52 U60 U68 U77 U79-81 U96	Philips 74LVT16244BDL	3.3V 16-bit Buffer/Line Driver	8								-
U54 U90	Motorola MC100ELT20D	TTL to Differential PECL Translator	2								-
U59	Xilinx XC18V04PC44C	Xilinx In-System Programmable Configuration PROM	1								-
U65	Philips N74F11D	Triple 3-Input AND Gate	1								-
U66	Philips 74ABT08D	SMD Quad 2-input AND Gate	1								-
U67	Xilinx XC2S600E-7FG456C	Xilinx Spartan-IIE 1.8V FPGA	1								-
U70	Philips 74LVT04D	Low Voltage Hex Invertors (3V3)	1								-
U71	Newport 50A10500	Active Buffered 10-Tap, 5ns Step Delay Line	1								-
U72	Xilinx XC18V02PC44C	Xilinx In-System Programmable Configuration PROM	1								-
U73 U74	Euroquartz SPG8640AN	Programmable Crystal Oscillator	2								-

KITTING LIST for: PC3216M

OM Job No:

Comp Ref	Manufacturer & Part No or Supplier's Name & Part No	Part Description	Board Qty	Kit Qty	Kit	Kit	Kit	Kit	Not Issued	Check	Comments
U76	Xilinx XC2S200E-6FG456C	Xilinx Spartan-IIE 1.8V FPGA	1								-
U78 U82	Philips 74ALVC164245DL	16-Bit Dual Supply Translating Transceiver	2								-
U83	TRACO TAM 25-2411	25W Single 5V Output DC/DC Converter	1								-
U85 U89	Philips 74ABT125D	3-State Quad Buffer	2								-
U86 U92 U100 U101 U103-105	Philips N74F541N	Octal Buffers, 3-state outputs	7								-
U87	TI SN74LS541N	Octal Buffers with 3 State Outputs	1								-
U88	Philips N74F760N	Octal Buffer (Open-Collector)	1								-
U91 U99 U102 U106	NSC 74F543PC	Octal Registered Transceiver	4								-
U93	TI SN74F38N	Quad 2 Input NAND Buffer	1								-
U94 U95	Synergy SY100E111JC	1:9 Differential Clock Driver With Enable	2								-
U97 U98	Philips 74ABT574D	SMD Octal Edge Triggered D-Type Latches	2								-
U107	Motorola MC100ELT21D	Differential PECL to TTL Translator	1								-
U108	Philips 74LVC4245AD	Octal Dual Supply Translating Transceiver	1								-
VR1	NSC LP3963ES-1.8	3A Fast Ultra Low Dropout Linear Regulator	1								-
-	Rittal 3685.516	9Ux4HP Flat Front Panel	1								For Detail see Drawing A2-TE-0102-047-01-*
-	Rittal 3688.770	Injector/Extractor Handle - Top	1								-
-	Rittal 3688.771	Injector/Extractor Handle - Bottom	1								-
-	Schroff 60807-181	Front Panel Mounting Block	1								-
-	Preci-Dip 714-91-125-31-001	PCB Sockets	6								4 Rows of 25 required for Daughter Card J21 and J23, 2 Rows of 13 Required for J23
-	Harwin D01-99-03-314	Low Profile DIP Sockets	1								Required for 1 14-pin DIP chips
-	Harwin D01-99-03-320	Low Profile DIP Sockets	9								Required for 9 20-pin DIP chips
-	Harwin D01-99-03-324	Low Profile DIP Sockets	4								Required for 4 24-pin DIP chips
-		DIP14-3 PCB Socket	1								Required for U71
-	-	Stiffening Bar	1								For Detail see Drawing A3-TE-0116-005-01-A