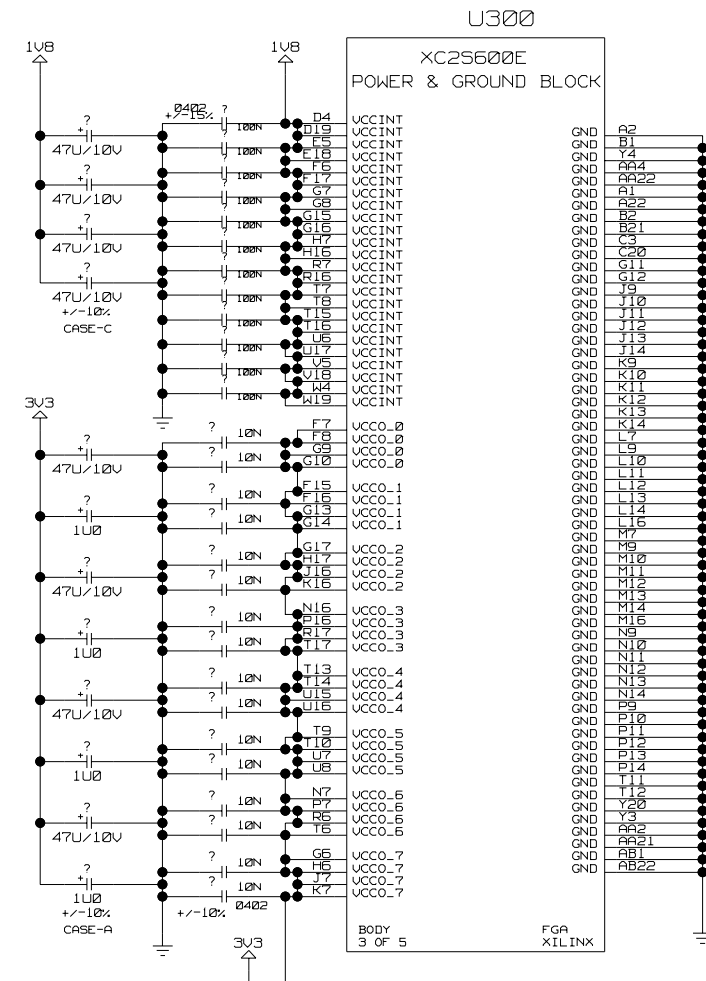


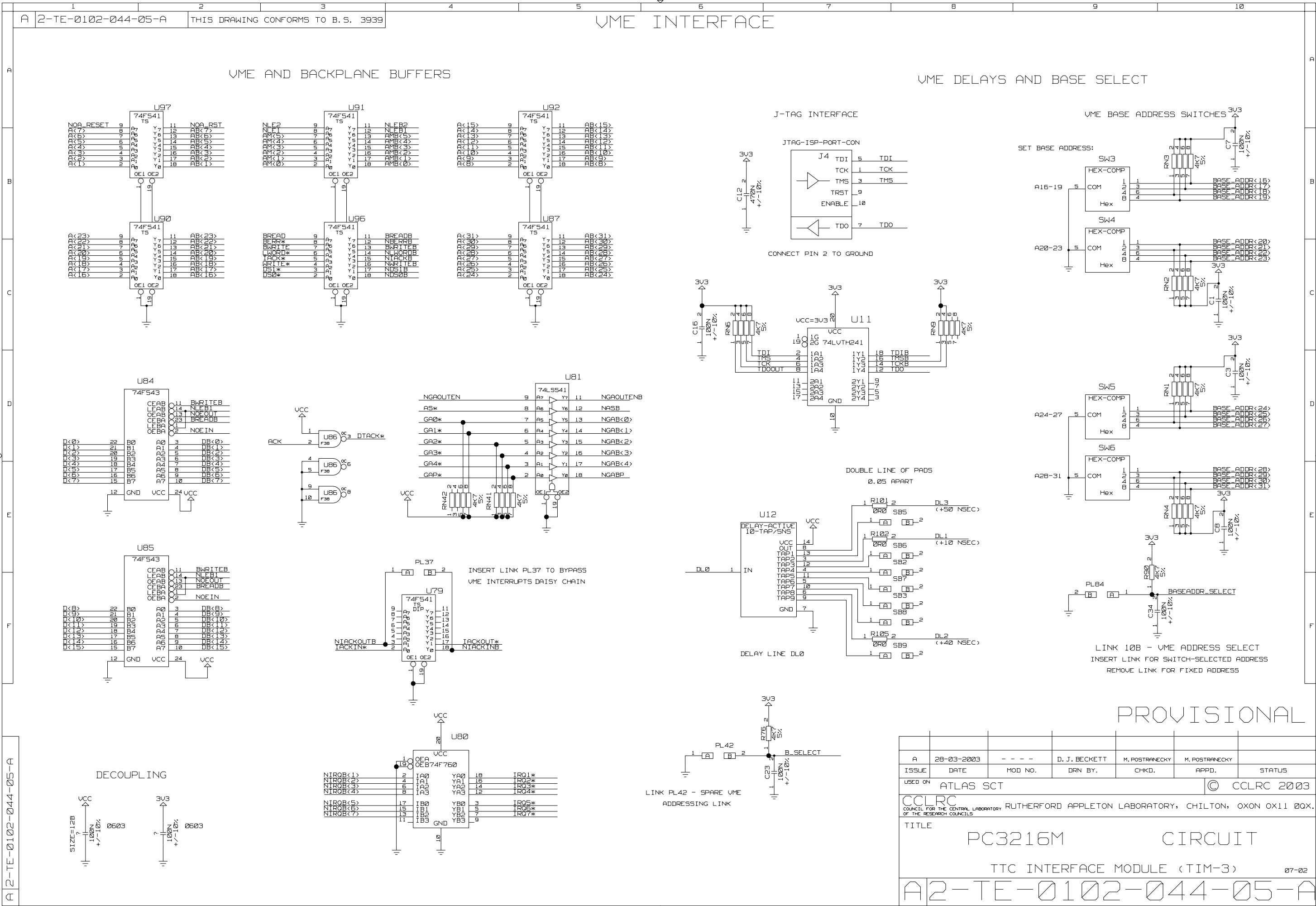
PROVISIONAL

A	28-03-2003	- - - -	D. J. BECKETT	M. POSTANECKY	M. POSTANECKY	
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) 07-02						
A2-TE-0102-044-03-A						



PROVISIONAL

A	28-03-2003	- - - -	D. J. BECKETT	M. POSTRAINEKY	M. POSTRAINEKY		
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 <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; margin-top: 10px;"> TTC INTERFACE MODULE (TIM-3) 07-02 </div>							
A2-TE-0102-044-04-A							



U87

74F541

TS

Y7

Y6

Y5

Y4

Y3

Y2

Y1

Y0

OE1

OE2

11

10

9

8

7

6

5

4

3

2

1

0

AB<7>

AB<6>

AB<5>

AB<4>

AB<3>

AB<2>

AB<1>

AB<0>

AB<31>

AB<30>

AB<29>

AB<28>

AB<27>

AB<26>

AB<25>

AB<24>

U84

74F543

TS

Y7

Y6

Y5

Y4

Y3

Y2

Y1

Y0

OE1

OE2

11

10

9

8

7

6

5

4

3

2

1

0

AB<7>

AB<6>

AB<5>

AB<4>

AB<3>

AB<2>

AB<1>

AB<0>

BWRITEB

NLEB1

NOEOUT

NLEB2

BREADB

NLEB1

NOEIN

NLEB2

DB<0>

DB<1>

DB<2>

DB<3>

DB<4>

DB<5>

DB<6>

DB<7>

B0

B1

B2

B3

B4

B5

B6

B7

GND

VCC

24

VCC

U85

74F543

TS

Y7

Y6

Y5

Y4

Y3

Y2

Y1

Y0

OE1

OE2

11

10

9

8

7

6

5

4

3

2

1

0

AB<7>

AB<6>

AB<5>

AB<4>

AB<3>

AB<2>

AB<1>

AB<0>

BWRITEB

NLEB1

NOEOUT

NLEB2

BREADB

NLEB1

NOEIN

NLEB2

DB<0>

DB<1>

DB<2>

DB<3>

DB<4>

DB<5>

DB<6>

DB<7>

B0

B1

B2

B3

B4

B5

B6

B7

GND

VCC

24

VCC

U80

74F760

TS

Y7

Y6

Y5

Y4

Y3

Y2

Y1

Y0

OE1

OE2

11

10

9

8

7

6

5

4

3

2

1

0

AB<7>

AB<6>

AB<5>

AB<4>

AB<3>

AB<2>

AB<1>

AB<0>

YB0

YB1

YB2

YB3

YB4

YB5

YB6

YB7

YB8

YB9

YB10

YB11

YB12

YB13

YB14

YB15

YB16

YB17

YB18

YB19

YB20

YB21

YB22

YB23

YB24

YB25

YB26

YB27

YB28

YB29

YB30

YB31

YB32

YB33

YB34

YB35

YB36

YB37

YB38

YB39

YB40

YB41

YB42

YB43

YB44

YB45

YB46

YB47

YB48

YB49

YB50

YB51

YB52

YB53

YB54

YB55

YB56

YB57

YB58

YB59

YB60

YB61

YB62

YB63

YB64

YB65

YB66

YB67

YB68

YB69

YB70

YB71

YB72

YB73

YB74

YB75

YB76

YB77

YB78

YB79

YB80

YB81

YB82

YB83

YB84

YB85

YB86

YB87

YB88

YB89

YB90

YB91

YB92

YB93

YB94

YB95

YB96

YB97

YB98

YB99

YB100

YB101

YB102

YB103

YB104

YB105

YB106

YB107

YB108

YB109

YB110

YB111

YB112

YB113

YB114

YB115

YB116

YB117

YB118

YB119

YB120

YB121

YB122

YB123

YB124

YB125

YB126

YB127

YB128

YB129

YB130

YB131

YB132

YB133

YB134

YB135

YB136

YB137

YB138

YB139

YB140

YB141

YB142

YB143

YB144

YB145

YB146

YB147

YB148

YB149

YB150

YB151

YB152

YB153

YB154

YB155

YB156

YB157

YB158

YB159

YB160

YB161

YB162

YB163

YB164

YB165

YB166

YB167

YB168

YB169

YB170

YB171

YB172

YB173

YB174

YB175

YB176

YB177

YB178

YB179

YB180

YB181

YB182

YB183

YB184

YB185

YB186

YB187

YB188

YB189

YB190

YB191

YB192

YB193

YB194

YB195

YB196

YB197

YB198

YB199

YB200

YB201

YB202

YB203

YB204

YB205

YB206

YB207

YB208

YB209

YB210

YB211

YB212

YB213

YB214

YB215

YB216

YB217

YB218

YB219

YB220

YB221

YB222

YB223

YB224

YB225

YB226

YB227

YB228

YB229

YB230

YB231

YB232

YB233

YB234

YB235

YB236

YB237

YB238

YB239

YB240

YB241

YB242

YB243

YB244

YB245

YB246

YB247

YB248

YB249

YB250

YB251

YB252

YB253

YB254

YB255

YB256

YB257

YB258

YB259

YB260

YB261

YB262

YB263

YB264

YB265

YB266

YB267

YB268

YB269

YB270

YB271

YB272

YB273

YB274

YB275

YB276

YB277

YB278

YB279

YB280

YB281

YB282

YB283

YB284

YB285

YB286

YB287

YB288

YB289

YB290

YB291

YB292

YB293

YB294

YB295

YB296

YB297

YB298

YB299

YB300

YB301

YB302

YB303

YB304

YB305

YB306

YB307

YB308

YB309

YB310

YB311

YB312

YB313

YB314

YB315

YB316

YB317

YB318

YB319

YB320

YB321

YB322

YB323

YB324

YB325

YB326

YB327

YB328

YB329

YB330

YB331

YB332

YB333

YB334

YB335

YB336

YB337

YB338

YB339

YB340

YB341

YB342

YB343

YB344

YB345

YB346

YB347

YB348

YB349

YB350

YB351

YB352

YB353

YB354

YB355

YB356

YB357

YB358

YB359

YB360

YB361

YB362

YB363

YB364

YB365

YB366

YB367

YB368

YB369

YB370

YB371

YB372

YB373

YB374

YB375

YB376

YB377

YB378

YB379

YB380

YB381

YB382

YB383

YB384

YB385

YB386

YB387

YB388

YB389

YB390

YB391

YB392

YB393

YB394

YB395

YB396

YB397

YB398

YB399

YB400

YB401

YB402

YB403

YB404

YB405

YB406

YB407

YB408

YB409

YB410

YB411

YB412

YB413

YB414

YB415

YB416

YB417

YB418

YB419

YB420

YB421

YB422

YB423

YB424

YB425

YB426

YB427

YB428

YB429

YB430

YB431

YB432

YB433

YB434

YB435

YB436

YB437

YB438

YB439

YB440

YB441

YB442

YB443

YB444

YB445

YB446

YB447

YB448

YB449

YB450

YB451

YB452

YB453

YB454

YB455

YB456

YB457

YB458

YB459

YB460

YB461

YB462

YB463

YB464

YB465

YB466

YB467

YB468

YB469

YB470

YB471

YB472

YB473

YB474

YB475

YB476

YB477

YB478

YB479

YB480

YB481

YB482

YB483

YB484

YB485

YB486

YB487

YB488

YB489

YB490

YB491

YB492

YB493

YB494

YB495

YB496

YB497

YB498

YB499

YB500

YB501

YB502

YB503

YB504

YB505

YB506

YB507

YB508

YB509

YB510

YB511

YB512

YB513

YB514

YB515

YB516

YB517

YB518

YB519

YB520

YB521

YB522

YB523

YB524

YB525

YB526

YB527

YB528

YB529

YB530

YB531

YB532

YB533

YB534

YB535

YB536

YB537

YB538

YB539

YB540

YB541

YB542

YB543

YB544

YB545

YB546

YB547

YB548

YB549

YB550

YB551

YB552

YB553

YB554

YB555

YB556

YB557

YB558

YB559

YB560

YB561

YB562

YB563

YB564

YB565

YB566

YB567

YB568

YB569

YB570

YB571

YB572

YB573

YB574

YB575

YB576

YB577

YB578

YB579

YB580

YB581

YB582

YB583

YB584

YB585

YB586

YB587

YB588

YB589

YB590

YB591

YB592

YB593

YB594

YB595

YB596

YB597

YB598

YB599

YB600

YB601

YB602

YB603

YB604

YB605

YB606

YB607

YB608

YB609

YB610

YB611

YB612

YB613

YB614

YB615

YB616

YB617

YB618

YB619

YB620

YB621

YB622

YB623

YB624

YB625

YB626

YB627

YB628

YB629

YB630

YB631

YB632

YB633

YB634

YB635

YB636

YB637

YB638

YB639

YB640

YB641

YB642

YB643

YB644

YB645

YB646

YB647

YB648

YB649

YB650

YB651

YB652

YB653

YB654

YB655

YB656

YB657

YB658

YB659

YB660

YB661

YB662

YB663

YB664

YB665

YB666

YB667

YB668

YB669

YB670

YB671

YB672

YB673

YB674

YB675

YB676

YB677

YB678

YB679

YB680

YB681

YB682

YB683

YB684

YB685

YB686

YB687

YB688

YB689

YB690

YB691

YB692

YB693

YB694

YB695

YB696

YB697

YB698

YB699

YB700

YB701

YB702

YB703

YB704

YB705

YB706

YB707

YB708

YB709

YB710

YB711

YB712

YB713

YB714

YB715

YB716

YB717

YB718

YB719

YB720

YB721

YB722

YB723

YB724

YB725

YB726

YB727

YB728

YB729

YB730

YB731

YB732

YB733

YB734

YB735

YB736

YB737

YB738

YB739

YB740

YB741

YB742

YB743

YB744

YB745

YB746

YB747

YB748

YB749

YB750

YB751

YB752

YB753

YB754

YB755

YB756

YB757

YB758

YB759

YB760

YB761

YB762

YB763

YB764

YB765

YB766

YB767

YB768

YB769

YB770

YB771

YB772

YB773

YB774

YB775

YB776

YB777

YB778

YB779

YB780

YB781

YB782

YB783

YB784

YB785

YB786

YB787

YB788

YB789

YB790

YB791

YB792

YB793

YB794

YB795

YB796

YB797

YB798

YB799

YB800

YB801

YB802

YB803

YB804

YB805

YB806

YB807

YB808

YB809

YB810

YB811

YB812

YB813

YB814

YB815

YB816

YB817

YB818

YB819

YB820

YB821

YB822

YB823

YB824

YB825

YB826

YB827

YB828

YB829

YB830

YB831

YB832

YB833

YB834

YB835

YB836

YB837

YB838

YB839

YB840

YB841

YB842

YB843

YB844

YB845

YB846

YB847

YB848

YB849

YB850

YB851

YB852

YB853

YB854

YB855

YB856

YB857

YB858

YB859

YB860

YB861

YB862

YB863

YB864

YB865

YB866

YB867

YB868

YB869

YB870

YB871

YB872

YB873

YB874

YB875

YB876

YB877

YB878

YB879

YB880

YB881

YB882

YB883

YB884

YB885

YB886

YB887

YB888

YB889

YB890

YB891

YB892

YB893

YB894

YB895

YB896

YB897

YB898

YB899

YB900

YB901

YB902

YB903

YB904

YB905

YB906

YB907

YB908

YB909

YB910

YB911

YB912

YB913

YB914

YB915

YB916

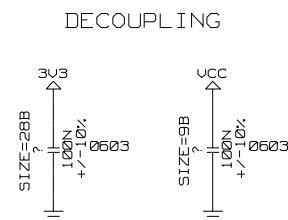
YB917

YB918

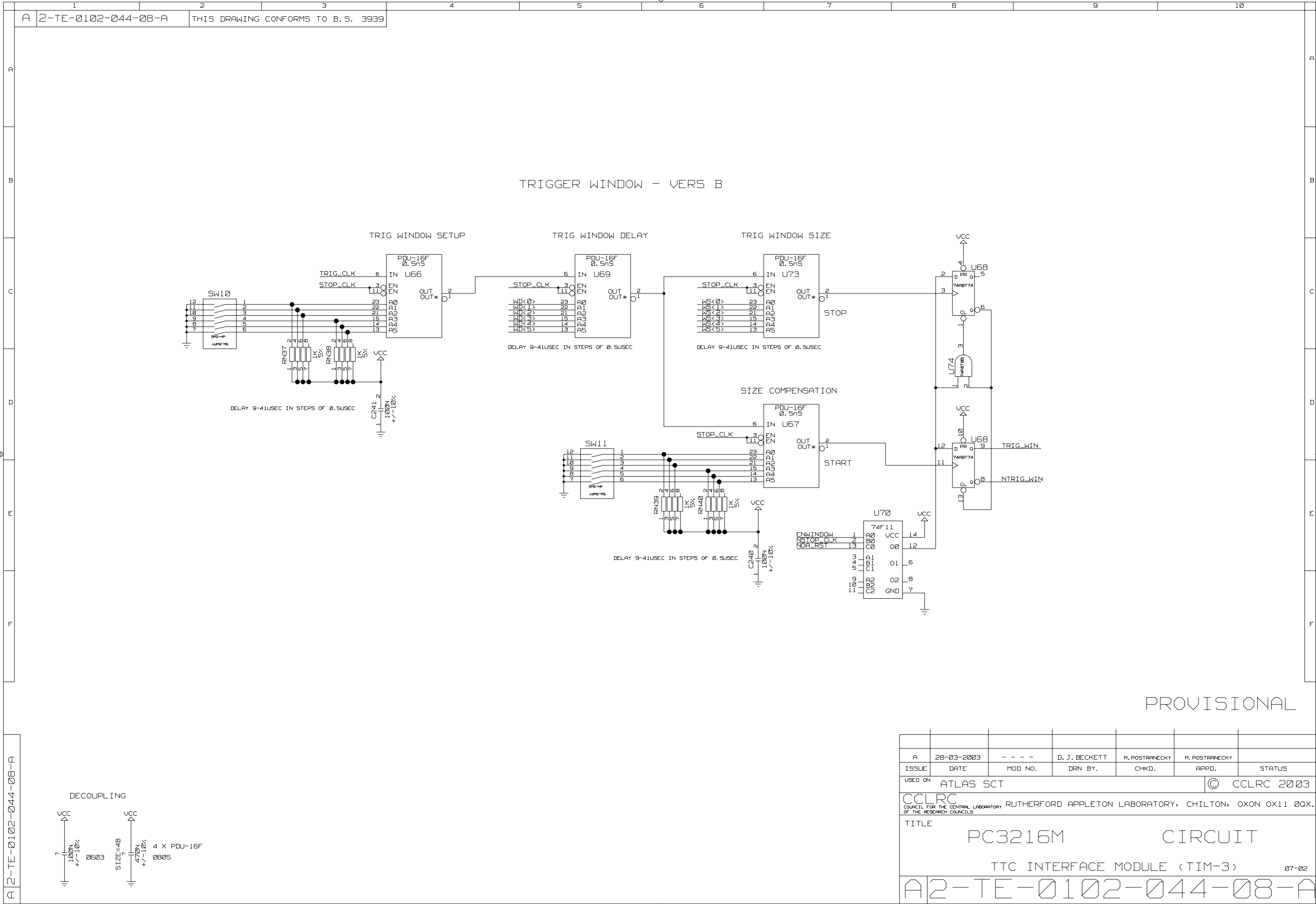
YB919

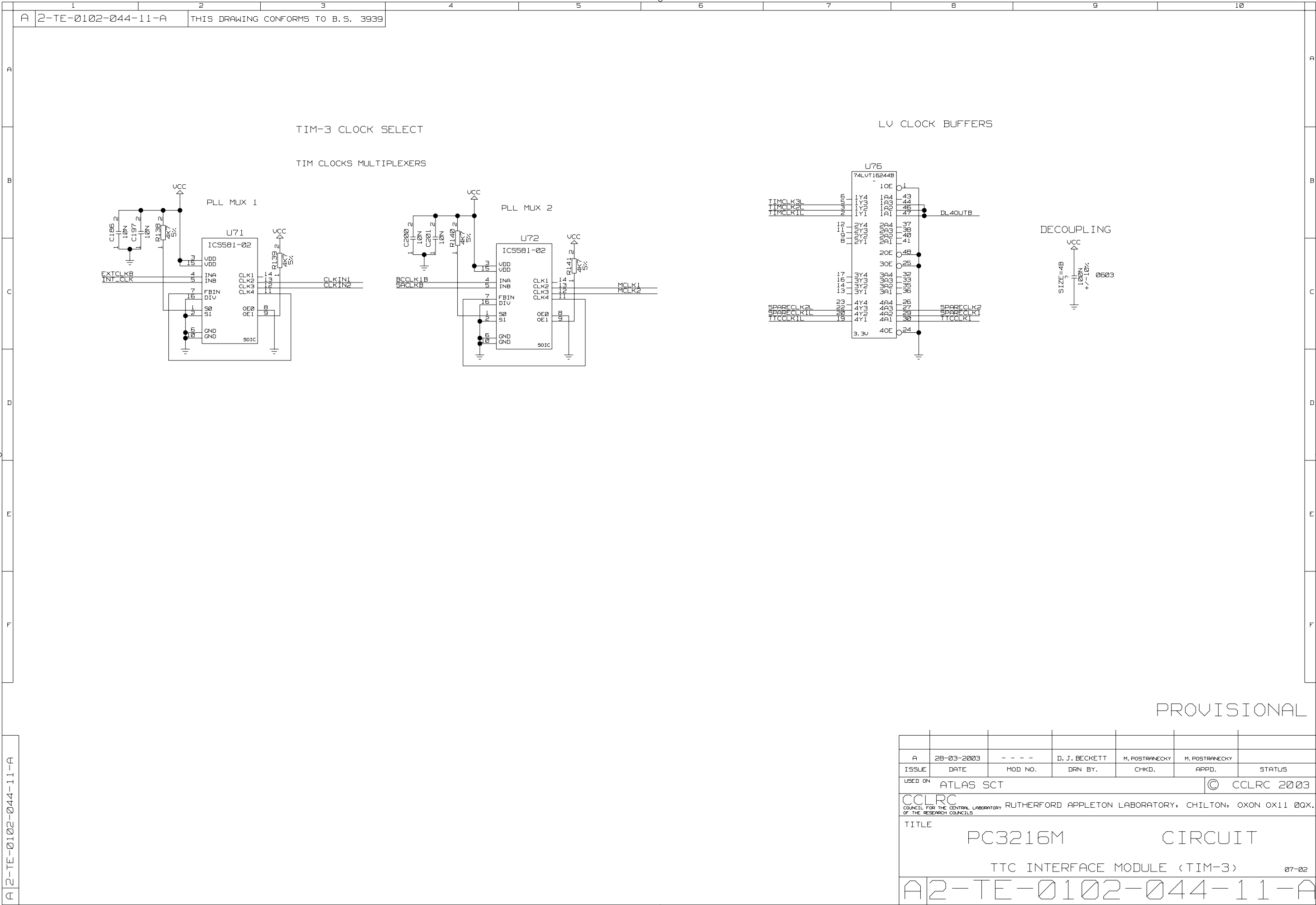
YB920

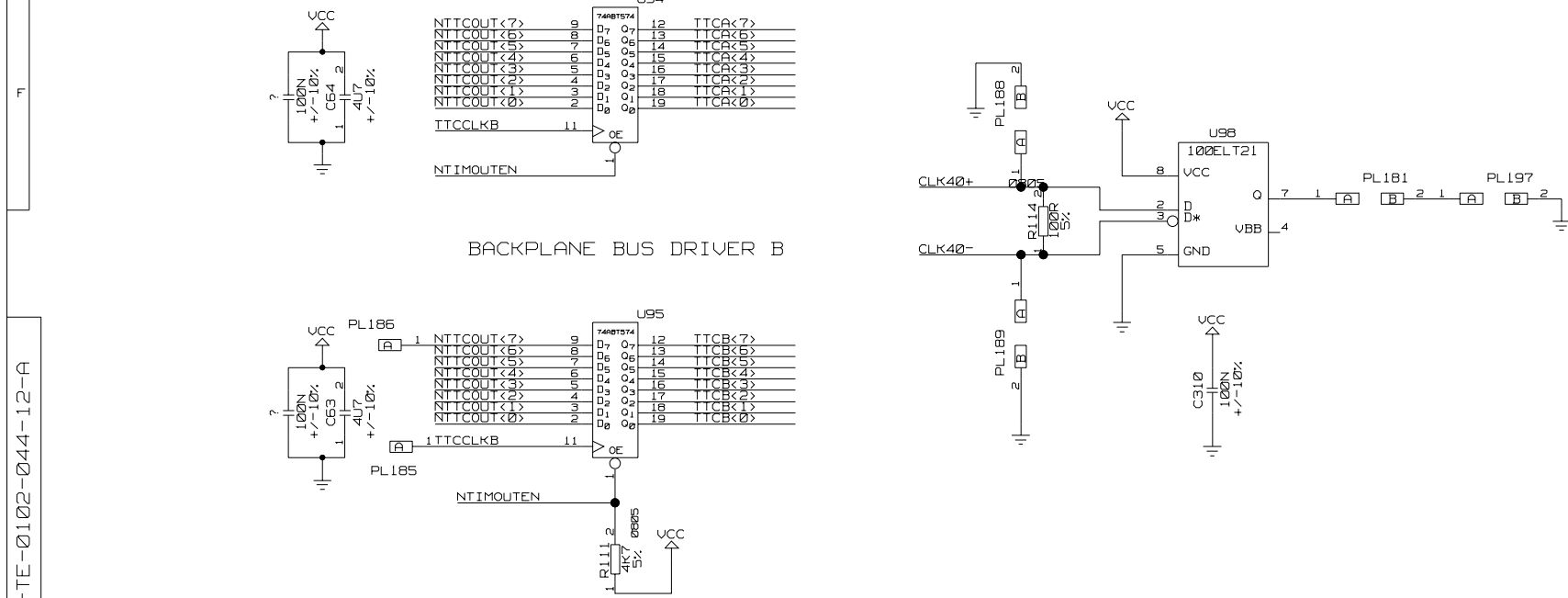
YB



A	28-03-2003	- - - -	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)						
07-02						
A2-TE-0102-044-06-A						



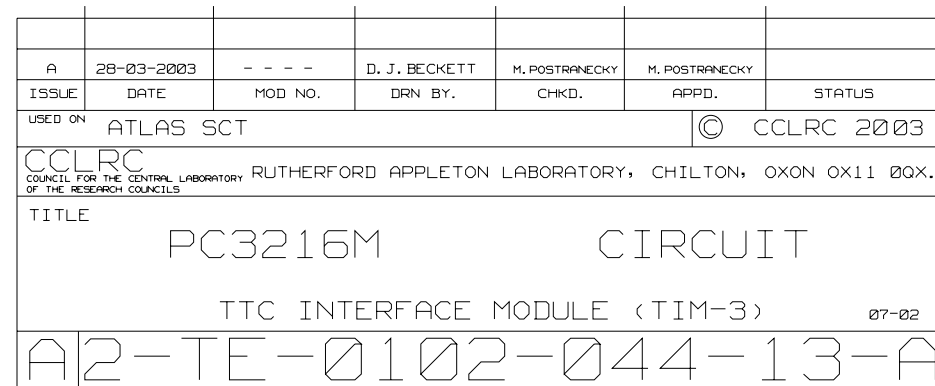


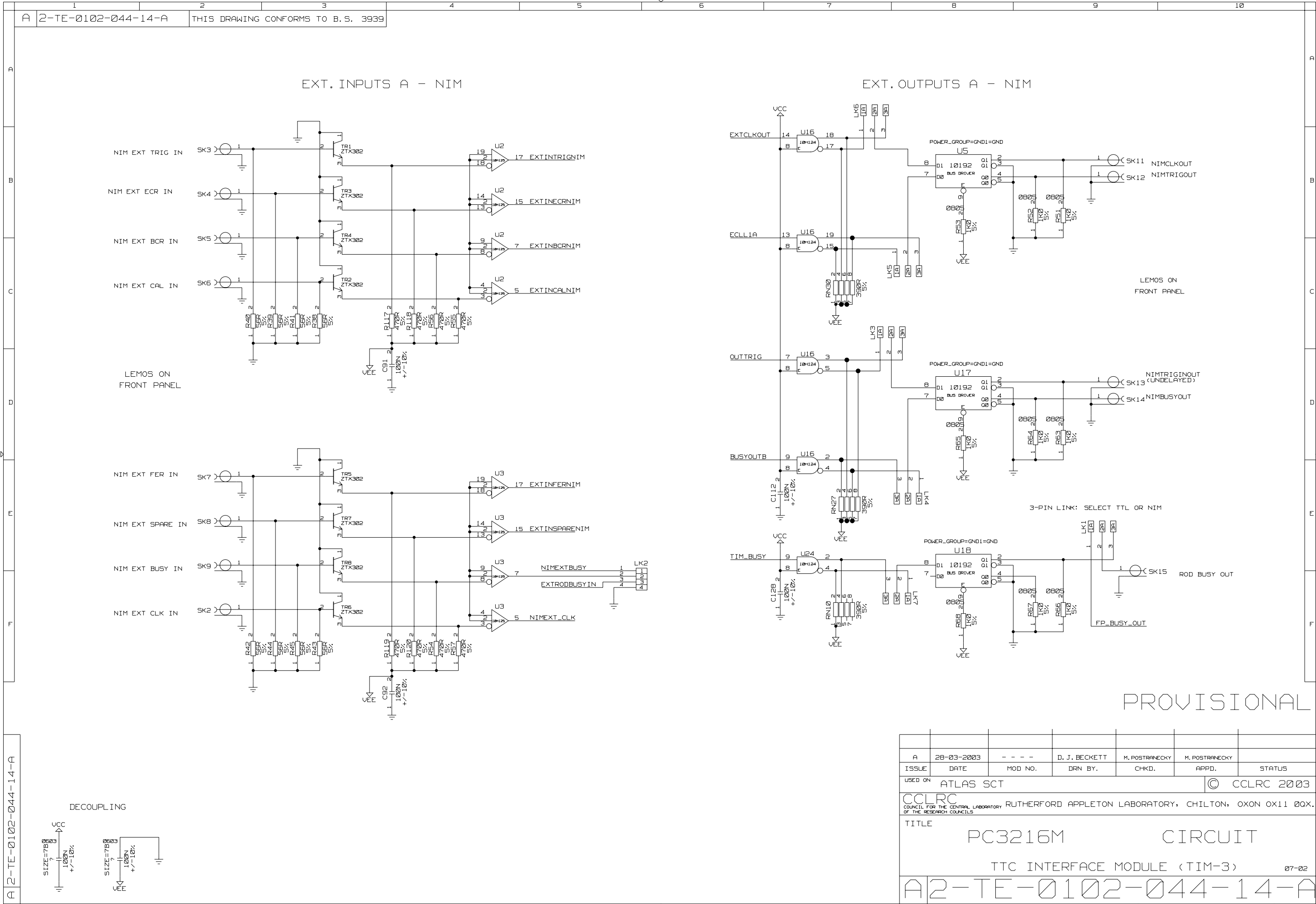


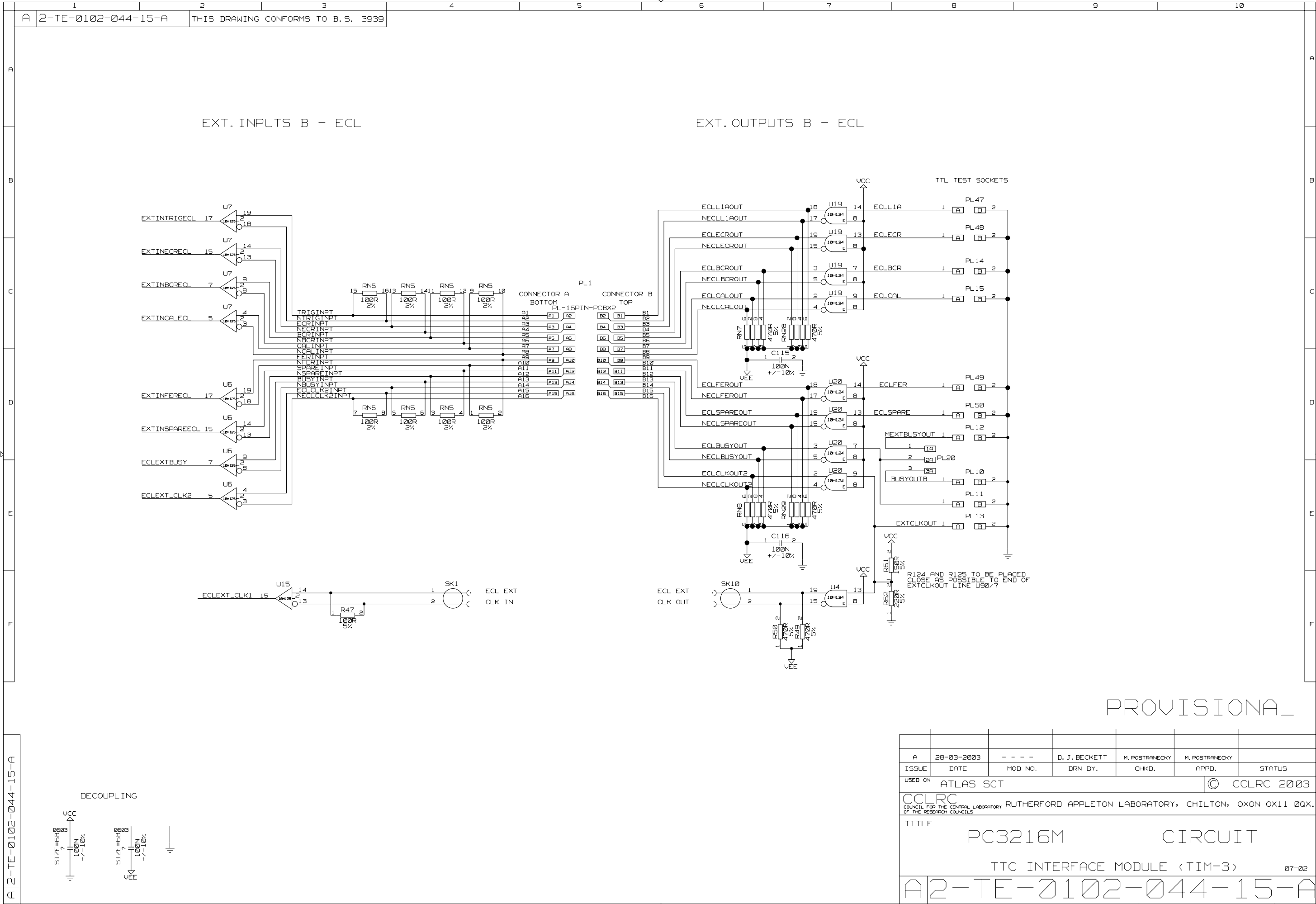
PROVISIONAL

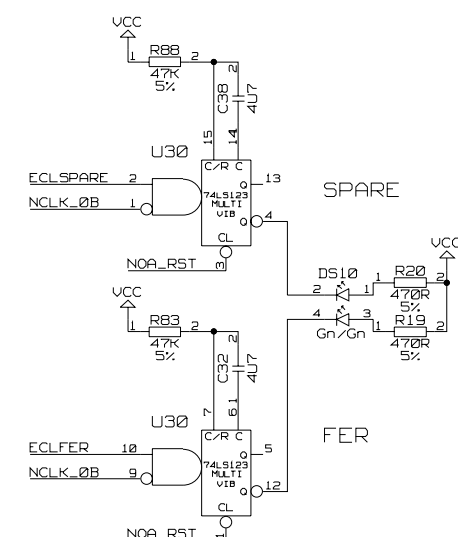
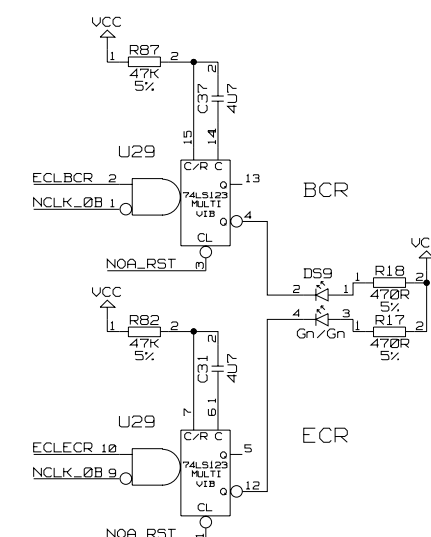
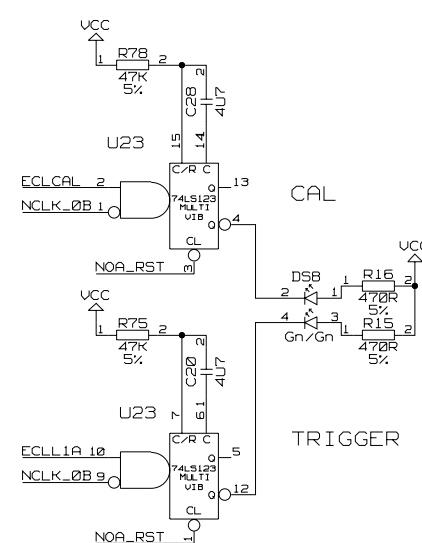
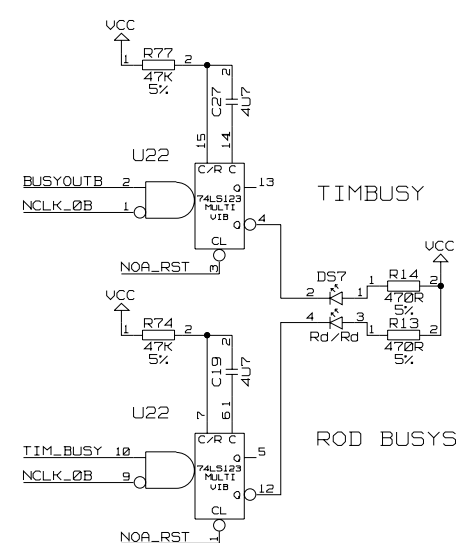
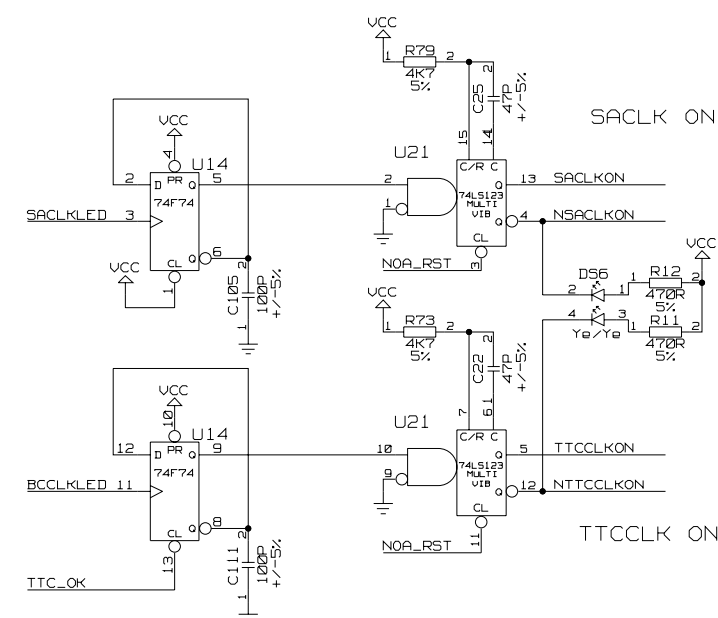
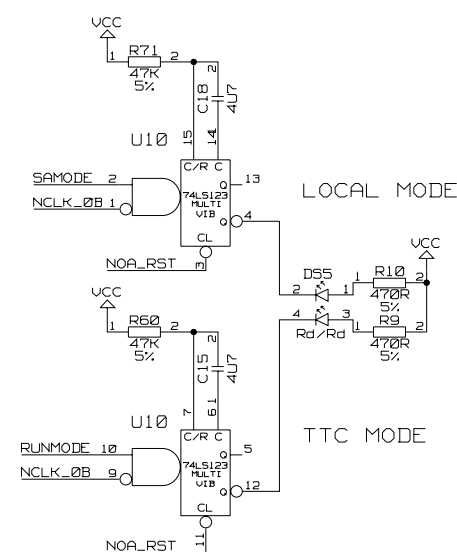
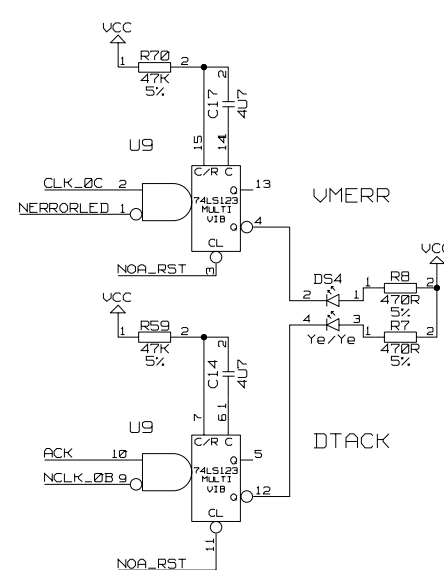
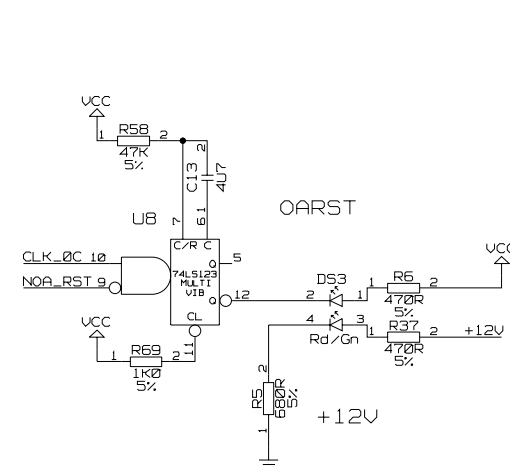
A	28-03-2003	- - - -	D. J. BECKETT	M. POSTRANECKY	M. POSTRANECKY		
ISSUE	DATE	MOD NO.	DRN BY.	CHKD.	APPD.	STATUS	
USED ON ATLAS SCT						© CCLRC 2003	
CCLRC COUNCIL FOR THE CENTRAL LABORATORY OF THE RESEARCH COUNCILS							
RUTHERFORD APPLETON LABORATORY, CHILTON, OXON OX11 0QX.							
TITLE							
PC3216M CIRCUIT							
TTC INTERFACE MODULE (TIM-3) 07-02							
A2-TE-0102-044-12-A							

PROVISIONAL

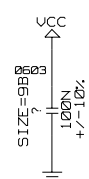








PROVISIONAL



A	28-03-2003	- - - -	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)						
07-02						
A2-TE-0102-044-16-A						

ORDERING LIST for: PC3216M TIM-3

OM Job No:

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

Comp Ref	Manufacturer & Part No or Supplier's Name & Part No	Part Description	Board Qty	Total Qty	Qty Ordered	Purchase Order No	Order Date	Supplier	Goods In	Comments
C1 C3 C7 C8 C16 C23 C26 C34 C54-57 C59 C71 C72 C75-84 C91 C92 C112 C115 C116 C128 C218 C220 C240 C241 C286	AVX-KYOCERA CM21X7R104K25VAT	100nF SMD Capacitor, 0805	36							Available from FARNELL 499-687
C2 C4-6 C66 C85 C87 C89 C125-127 C131 C133 C137 C141 C153	AVX TAJC476K010R	47uF SMD 10V Capacitor, Case Size C	16							Available from FARNELL 197-166
C9 C13-15 C17-21 C24 C27-33 C35-49 C52 C60 C61 C63 C64 C74 C312 C314	AVX-KYOCERA TAJB475K016R	4.7uF SMD 16V Capacitor, Case Size B	40							Available from FARNELL 498-725
C10	AVX-KYOCERA TAJD476K016R	47uF SMD 16V Capacitor, Case Size D	1							Available from FARNELL 498-762
C11 C53 C132 C135 C136 C138 C139 C142-145 C147-152 C155-157 C160-165 C167 C170-175 C178-183 C203 C205 C207 C211 C230-239 C243 C245-260 C262-285 C287-311 C313 C315-333 CI63	AVX-KYOCERA CM105X7R104K16VAT	100nF SMD Capacitor, 0603	140							Available from FARNELL 499-675
C12 C106 C159 C184 C189 C190 C192 C194 C204 C206 C208 C216 C222 C224 C242 C244 C261	AVX-KYOCERA CM21X7R474K16VAT	470nF SMD Capacitor, 0805	17							Available from FARNELL 578-228
C22 C25	Siemens B37940K5470J60	47pF SMD Capacitor, 50V, 0805	2							Available from RS 211-3287
C50 C51 C129 C166 C215	Farnell 722-080	100pF NPO Capacitor, 0603	5							-
C58	Farnell 912-967	1000uF 16V Axial Electrolytic	1							-
C62 C65	AVX-KYOCERA 06033C103KAT00J	10nF SMD Capacitor, 0603	2							Available from FARNELL 499-146
C67 C86 C88 C90 C134 C140 C146 C154	AVX-KYOCERA TAJA105K016R	1uF SMD 16V Capacitor, Case Size A	8							Available from FARNELL 498-701
C68-70 C73	Farnell 920-460	470uF 16V Electrolytic	4							-
C93-102 C158 C168 C169 C177 C185 C187 C188 C191 C193 C195 C196 C198	Murata GRP155R61A104KA01E	100nF X5R Capacitor, 0402, 10V	22							-
C103 C104 C107-110 C113 C114 C117-124 C199 C202 C209 C210 C212-214 C217 C219 C221 C223 C225-229	Farnell 578-149	10nF SMD Capacitor, 0402	32							-

ORDERING LIST for: PC3216M TIM-3

OM Job No:

Comp Ref	Manufacturer & Part No or Supplier's Name & Part No	Part Description	Board Qty	Total Qty	Qty Ordered	Purchase Order No	Order Date	Supplier	Goods In	Comments
C105 C111	RS 298-9258	100pF SMD Capacitor, 0805, COG Dielectric, 100V	2							-
C130	Farnell 722-042	47pF NPO Capacitor, 0603	1							-
C176	AVX-KYOCERA CM21X7R334K16VAT	330nF SMD Capacitor, 0805	1							Available from FARNELL 578-216
C186 C197 C200 C201	CC0603HY5V103ZTR	10nF SMD Capacitor, 0603	4							-
D1	Farnell 368-106	1N4148PS, Small Signal Diode	1							-
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							-
FS1-3	RS 344-5096	5A SMD Fuse in Holder, OMF63 Series	3							Order Fuseholder RS 167-5194
FS4 FS5	RS 344-5103	10A SMD Fuse in Holder, OMF63 Series	2							Order Fuseholder RS 167-5194
J1-3	Harting 02011602101	160way Rt-Ang Plug Har-Bus 64 System	3							Available from RS 235-6406
J4	3M 2510-6002UN	10way vert IDC hdr for J-TAG ISP port	1							-
JAUX	Erni(Stuc3) 30-M-ABC	30way Rt-Ang PCB Plug	1							-
LK1 LK3-7 PL20 PL121 PL172	Harwin M20-999 03 05	Harwin Straight 3 pin Header	9							Can be cut from M20-999 36 05
LK2	Harwin M20-999 04 05	Harwin Straight 4 pin Header	1							Can be cut from M20-999 36 05
LK8 LK11 LK13 LK14	Comatel 3000500	2 pin 0.6 inch pitch Jumper	4							-
PL1	3M 3408-D303	32-Pin Condo double-header, PCB RT-ANG	1							-
PL2-5 PL71 PL122-126 PL135 PL139 PL140 PL171 PL176-179 PL184-187 PL198	Harwin M20-999 20 05	Harwin Straight 1 pin Header	23							Can be cut from M20-999 20 05
PL10-15 PL37 PL42 PL47-50 PL84 PL141-156 PL159-161 PL163-170 PL173-175 PL180 PL181 PL188 PL189 PL197	Harwin M20-999 02 05	Harwin Straight 2 pin Header	48							Can be cut from M20-999 36 05
R1 R2 R6-37 R49 R50 R54-57 R117-120	Farnell 613-058	470R SMD Resistor, 0.1W, 0805	44							-
R3	Farnell 613-034	330R SMD Resistor, 0.1W, 0805	1							-
R4 R51-53 R63-69 R107	Farnell 613-095	1K0 SMD Resistor, 0.1W, 0805	12							-
R5	Farnell 613-071	680R SMD Resistor, 0.1W, 0805	1							-
R38-45	Farnell 612-947	56R SMD Resistor, 0.1W, 0805	8							-
R46	Rohm MCR03EZHJ101	100R SMD Resistor, 0.1W, 0603	1							-
R47 R113 R114	Farnell 612-972	100R SMD Resistor, 0.1W, 0805	3							-

ORDERING LIST for: PC3216M TIM-3

OM Job No:

Comp Ref	Manufacturer & Part No or Supplier's Name & Part No	Part Description	Board Qty	Total Qty	Qty Ordered	Purchase Order No	Order Date	Supplier	Goods In	Comments
R48	Rohm MCR03EZHJ102	1K0 SMD Resistor, 0.1W, 0603	1							-
R58-60 R70-72 R74 R75 R77 R78 R80-89 R91 R93-96 R98-100 R108	Farnell 613-290	47K SMD Resistor, 0.1W, 0805	29							-
R61	Farnell 612-996	150R SMD Resistor, 0.1W, 0805	1							-
R62	Farnell 613-010	220R SMD Resistor, 0.1W, 0805	1							-
R73 R76 R79 R90 R92 R97 R111 R112 R125 R126 R128 R129	Farnell 613-174	4.7K SMD Resistor, 0.1W, 0805	12							-
R101 R102 R105 R127 R130-136	Farnell 772-239	0R0 SMD Resistor, 0.1W, 0805	11							-
R103 R104 R109	Farnell 613-022	270R SMD Resistor, 0.1W, 0805	3							-
R106 R138-141	Rohm MCR03EZHJ472	4K7 SMD Resistor, 0.1W, 0603	5							-
R110	Farnell 347-681	100K, 3266W Variable Resistor, 0.25W	1							-
R115 R137	Rohm MCR03EZHJ103	10K SMD Resistor, 0.1W, 0603	2							-
R116 R121-124	Farnell 613-216	10K SMD Resistor, 0.1W, 0805	5							-
RN1-4 RN6 RN9 RN33-36 RN41-44	Farnell 776-749	4K7, ARC241, 4-isolated Resistors, 0.062W	14							-
RN5	Farnell 149-011	100R, 8-isolated Resistors, 2.25W	1							-
RN7 RN8 RN28 RN29	Farnell 776-683	470R, ARC241, 4-isolated Resistors, 0.062W	4							-
RN10 RN27 RN30	Farnell 307-0165	390R, ARC241, 4-isolated Resistors, 0.062W	3							-
RN11-22	Farnell 307-0153	270R, ARC241, 4-isolated Resistors, 0.062W	12							-
RN23-26	Farnell 776-762	10K, ARC241, 4-isolated Resistors, 0.062W	4							-
RN37-40	Farnell 776-701	1K, ARC241, 4-isolated Resistors, 0.062W	4							-
SK1 SK10	Lemo EPG.302.HLN	Lemo Socket, 2 Female PCB Mount	2							-
SK2-9 SK11-15	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	Farnell 146-199	Sealed PCB Mount Vert Rotary Hex Switch	4							Available from Farnell 146-199
SW8-11	Thomas & Betts GDH06S	6way SMD Half Pitch Switch	4							Available from Farnell 312-691
TR1-8	Farnell 358-010	General Purpose Switching NPN Transistor	8							-
U1	Philips N74F14D	SMD Hex Schmitt-Trigger Inverters	1							-
U2 U3 U6 U7 U15	Motorola MC10H125FN	Quad ECL to TTL Translator	5							-
U4 U16 U19 U20 U24	Motorola MC10H124FN	Quad TTL to ECL Translator	5							-
U5 U17 U18	Motorola MC10192FN	Quad Bus Driver	3							-
U8-10 U21-23 U27-31 U33-37 U77	TI SN74LS123D	SMD Dual Monostable	17							-
U11 U65	TI SN74LVTH241DW	ABT Octal Buffers and Drivers with 3-State Outputs	2							-

ORDERING LIST for: PC3216M TIM-3

OM Job No:

Comp Ref	Manufacturer & Part No or Supplier's Name & Part No	Part Description	Board Qty	Total Qty	Qty Ordered	Purchase Order No	Order Date	Supplier	Goods In	Comments
U12	Newport 50A10500	Active Buffered 10-Tap, 5ns Step Delay Line	1							Available for Farnell 175-218
U13 U32 U84 U85	NSC 74F543PC	Octal Registered Transceiver	4							-
U14 U100	Philips N74F74D	SMD Dual D-Type Positive-Edge Trigger Flip-Flops	2							-
U25 U26	Euroquartz SPG8640AN	Programmable Crystal Oscillator	2							-
U38	Philips N74F27D	Triple 3-Input NOR Gate, SOIC	1							-
U39 U43	Philips 74ALVC164245DL	16-Bit Dual Supply Translating Transceiver	2							-
U40	ECM GBS-204-80.16-C	80.16MHz Crystal Clock Oscillator	1							-
U41 U46 U68	Philips N74ABT74D	Dual D-Type Flip-Flop	3							-
U42 U49-53 U60 U62 U63	Philips 74ABT541D	SMD Octal Buffer, 3-state	9							-
U44 U47 U48 U54 U59 U64 U76 U93	Philips 74LVT16244BDL	3.3V 16-bit Buffer/Line Driver	8							-
U45	Philips 74ABT04D	SMD Hex Invertors	1							-
U55 U57 U58 U66 U67 U69 U73	Data Delay Devices PDU-16F-.5A4	6 Bit Programmable Delay Unit, TTL 0.5nS Steps, Gull-Wing	7							-
U56	Philips 74LVT244AD	3-State Low Voltage Octal Buffer	1							Available from RS 197-6920
U61 U83	Motorola MC100ELT20D	TTL to Differential PECL Translator	2							-
U70	Philips N74F11D	Triple 3-Input AND Gate	1							-
U71 U72	ICS ICS581-02	Zero-Delay Glitch Free Clock Multiplexer	2							-
U74	Philips 74ABT08D	SMD Quad 2-input AND Gate	1							-
U75 U99	Philips 74ABT125D	3-State Quad Buffer	2							-
U78	TRACO TAM 25-2411	25W Single 5V Output DC/DC Converter	1							-
U79	Philips N74F541N	Octal Buffers, 3-state outputs	1							-
U80	Philips N74F760N	Octal Buffer (Open-Collector)	1							-
U81	TI SN74LS541N	Octal Buffers with 3 State Outputs	1							-
U82	NSC 74F14PC	Hex Schmitt-Trigger Inverters	1							-
U86	TI SN74F38N	Quad 2 Input NAND Buffer	1							-
U87 U90-92 U96 U97	NSC 74F541PC	Octal Buffers, 3-state outputs	6							-
U88 U89	Synergy SY100E111JC	1:9 Differential Clock Driver With Enable	2							Unsocketed Device
U94 U95	Philips 74ABT574D	SMD Octal Edge Triggered D-Type Latches	2							-
U98	Motorola MC100ELT21D	Differential PECL to TTL Translator	1							-
U200	Xilinx XC2S200E-6FG456C	Xilinx Spartan-IIE 1.8V FPGA	1							-
U300	Xilinx XC2S600E-7FG456C	Xilinx Spartan-IIE 1.8V FPGA	1							-