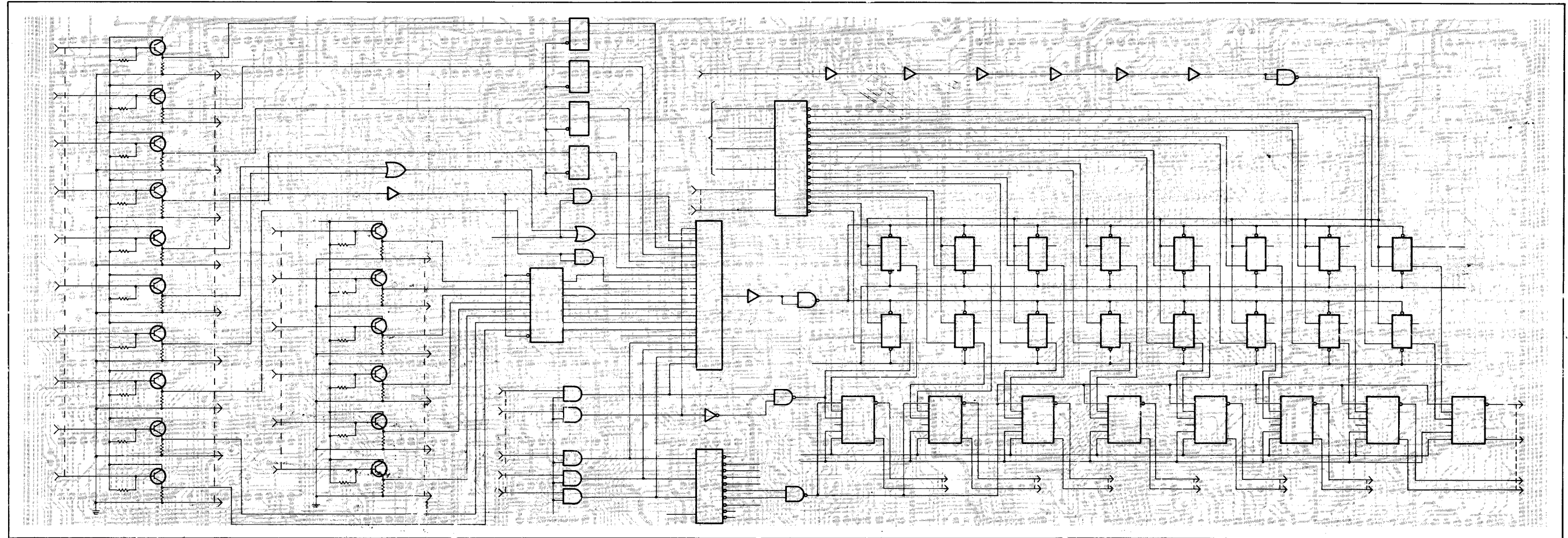




# Model 990 Computer Family Maintenance Drawings



## TILINE Expansion and Peripherals Volume IV

Part No. 945421-9704 \*\*  
15 June 1980

# TEXAS INSTRUMENTS

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### MANUAL REVISION HISTORY

**Model 990 Computer Family Maintenance Drawings, Volume IV, TILINE Expansion and Peripheral (945421-9704)**

**Original Issue ..... 15 June 1980 (MCR 000341)**

**Total number of pages in this publication is 410.**

## Preface

The Model 990 Computer Family Maintenance Drawings provide assembly drawings, list of materials, logic diagrams, and electronic schematic diagrams for equipment currently available in the 990 Family of Computers. This information is designed for use as a reference by customer representatives, factory-service personnel, factory-customer support engineers, and other maintenance personnel involved in diagnosis and repair of 990 computer equipment.

The Model 990 Computer Family Maintenance Drawings consists of five volumes. The five volumes are:

Volume	Part Number 0945421	Volume Title
I	-9701	Computer Chassis and Enclosures
II	-9702	Processors and Memories
III	-9703	CRU Expansion and Peripherals
IV	-9704	TILINE Expansion and Peripherals
V	-9705	AMPL Systems

The contents of Volume IV are summarized in the following paragraph:

**VOLUME IV, TILINE EXPANSION AND PERIPHERALS, PART NUMBER 0945421-9704.** Volume IV contains the following information and drawings:

- Preface — Description of Volume IV
- Table of Contents — For Volume IV Only
- Section 1 — TILINE Communications System
- Section 2 — TILINE Expansion
- Section 3 — DS10 Disk System
- Section 4 — DS31/DS32 Disk System
- Section 5 — DS25/DS50 and DS200 Disk Systems
- Section 6 — 979A Magnetic Tape System
- Section 7 — Floppy Disk System



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AD — denotes Assembly Drawing  
 LM — denotes List of Materials

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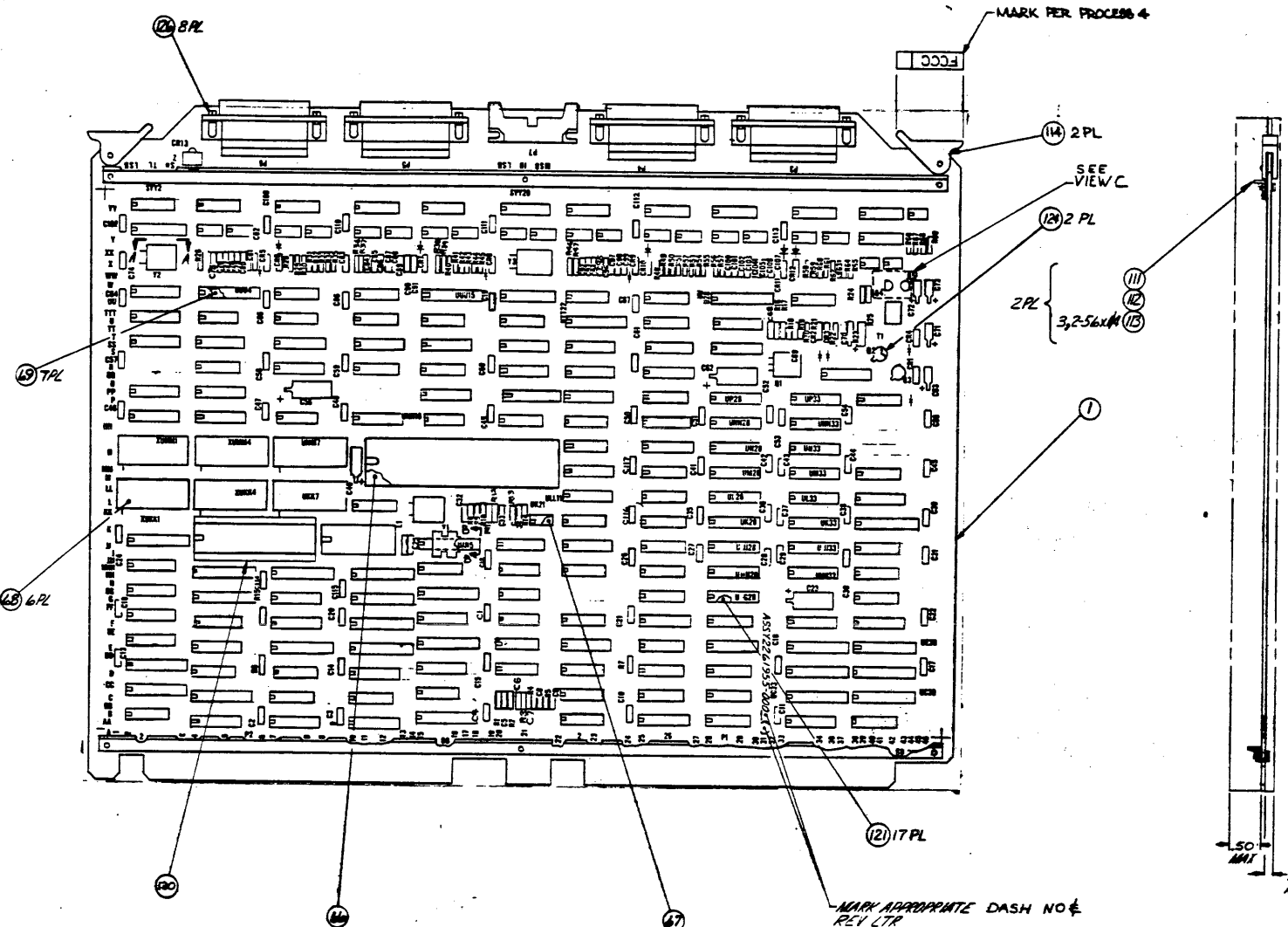
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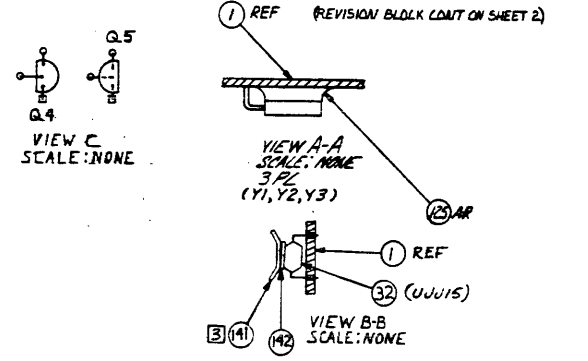
**Note:**

AD — denotes Assembly Drawing  
 LM — denotes List of Materials

NOTES: UNLESS OTHERWISE SPECIFIED:  
 1. ADHERE P3, P4, P5 AND P6 (ITEM 108) TO PWB (ITEM 1)  
 USING ITEM 125  
 NOTES CONT ZD-8 SH 2



REV	DESCRIPTION	DATE	APPROVED
A	CN448252 (C) R. Brown (1) REVISED FOR EXTENSIVE ENGINEERING CHANGES (2) ADDED SH 2 (3) UPDATED REV LEVEL BLOCK	4-20-79	J.R. [Signature]
B	CN448253 (C) R. Brown (1) CREATED -2 LM (2) UPDATED REV LEVEL BLK	4-20-79	J.R. [Signature]
C	CN448255 (D) P. [Signature] (1) ON L/M-0001 E-0002 ITEM 10 QTY WAS 3, ITEM 38 QTY WAS 1, ITEM B4 REF DES R67 WAS R46, ITEM B6 PN WAS 372946-005B, REF DES WAS R67 (2) ADDED ITEM 141 AND ADDED ITEM 142 (3) ADDED FLAG NOTE 3 (4) ADDED VIEW B-B (5) UPDATED REV LEVEL BLOCK	8-17-79	J.R. [Signature]
D	CN448258 (B) P. [Signature] (1) ON L/M'S E-0002 L/M'S ITEM 11 P/N WAS 972B22-0001, ITEM 49 WAS-0001 ITEM 65 WAS-0001 (2) ON-0001 E-0002 L/M'S ITEM 13 QTY WAS 9, ITEM 39 WAS 1, ITEM B8 WAS 2 AND ITEM 91 WAS 7 (3) ADDED NOTE 4 (4) ADDED VIEW C (5) REV LETTERS FOR PWB WAS B FOR REV A,B,C ASSY'S (6) UPDATED REV LEVEL BLOCK	8-17-79	J.R. [Signature]
E	CN44764 (D) P. [Signature] (1) REVISED LM PER EXTENSIVE ENGR CHANGES (2) UPDATED REV LEVEL BLOCK	8-17-79	J.R. [Signature]
F	CN448267 (B) P. [Signature] (1) ON L/M'S -5001 E-5002 ITEM B3 QTY WAS 9, ITEM B5 QTY WAS 3, ITEM B8 QTY WAS 4, ITEM 92 P/N WAS-0084 AND ADDED ITEM 144 (2) ON SH 1 OF ASSY DWG REVERSED STIFFENER Z C4-B (3) ADDED NOTE 5 (4) UPDATED REV LEVEL BLOCK	8-17-79	J.R. [Signature]
G	CN448268 (C) P. [Signature] (1) ON-5001 E-5002, LMS ITEM 100 WAS 972757-0021 QTY 24, ITEM 101 QTY WAS 3, ITEM 102 QTY WAS 49 & DELETED ITEM 122 (2) UPDATED REV LEVEL BLOCK	9-5-79	E. [Signature]



PART NO	DESCRIPTION
2261955-5002	AUTO INSERT TAPE FOR 2261955-0002
2261955-5001	AUTO INSERT TAPE FOR 2261955-0001
2261955-0002	COMMUNICATION CONTRLR, FOUR CHANNEL, 4MHZ
2261955-0001	COMMUNICATION CONTRLR, FOUR CHANNEL, 3MHZ

SEQ NO	IDENT	F-SPEC	NO	CLASSIFICATION	NOTES
4	MARK	100-07	721	CLR BLK, TYPE 6	
3	MARK	100-02	21	NGT. IZ, CLR BLK	
2	SLDR	127-01	00		
1	SLDR	124-02	00		

REV LTR	REV	DATE	BY	CHKD	APP'D
T.P.	2261955-9901				
LOGK	2261957-9901				
F.H.S.	22-1955-0001				
ASSY	22-1955				

REV STATUS	REV	J	J
OF SHEETS	SHEET	1	2

QTY	ITEM NO	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION	NOTES

HOLE TOLERANCE	THRU	NO	THRU	NO
.013	.004	.126	.008	.251
.125	.001	.250	.001	.500
.501	.008	.751	.010	1.001
.750	.001	1.000	.001	2.000

DATE	BY	CHKD	APP'D
12-1-78			
12/1/78			
12/18/78			

TEXAS INSTRUMENTS  
 INCORPORATED  
 DALLAS, TEXAS

COMMUNICATION CONTROLLER,  
 FOUR CHANNEL

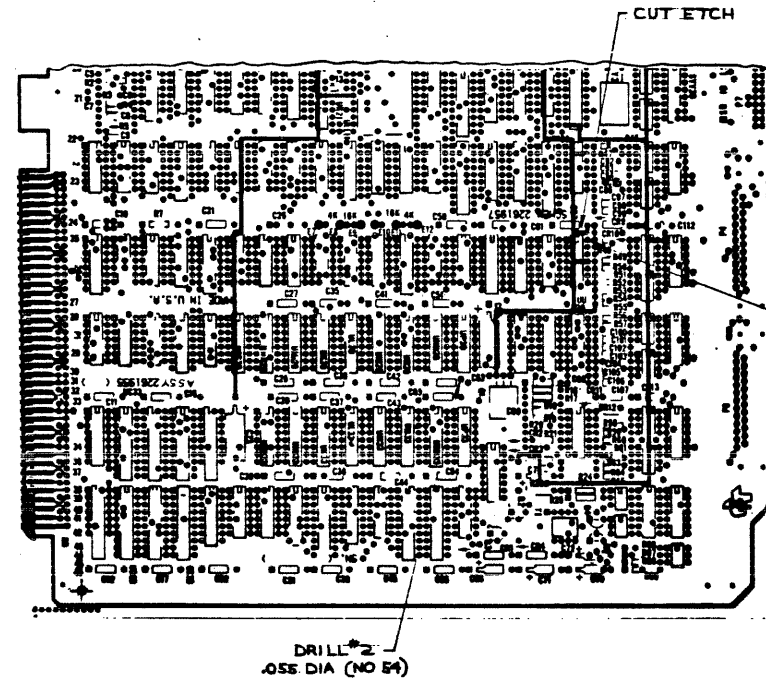
DWG NO: D96214  
 PART NO: 2261955

SCALE: 1:1

SHEET 1 OF 2

NOTES CONT.

2. REWORK PROCEDURE FOR PWB 2261956 REV A:  
 A. USING A .055 (#54) BIT, DRILL OUT PIN 14 OF UUU25. WITH AN OHMMETER ON X1 SCALE, VERIFY NO CONTINUITY BETWEEN PINS 13 & 10 OF UUU25.  
 NOTE: THIS HOLE MAY NOT CAUSE A SHORT ON ALL PWB'S, BUT ALL PWB'S SHOULD BE REWORKED TO INSURE AGAINST SHORTS AFTER FLOW SOLDER.



B. USING A .055 (#54) BIT, DRILL OUT THE FEEDTHROUGH NEAR PINS 8 OF UP26. WITH AN OHMMETER ON X1 SCALE, VERIFY NO CONTINUITY BETWEEN PINS 1 AND 8 OF UP26.

C. FILL THE 2 HOLES WITH EPOXY (TI P/N 996639-0001 OR EQUIVALENT). DO NOT APPLY EPOXY TO PADS OR HOLES OTHER THAN THE 2 HOLES DRILLED. ALLOW EPOXY TO CURE AT LEAST 12 HOURS.

D. CUT THE ETCH ON LAYER 1 CONNECTING C67 PIN 2 TO THE POWER BUS. WITH AN OHMMETER ON X1 SCALE, VERIFY NO CONTINUITY BETWEEN PINS 1 & 2 OF C67.

E. AFTER COMPONENTS ARE INSTALLED, CUT PIN 14 OF UUU25 AND CONNECT PIN 14 TO PIN 10 OF UUU25 USING 30 AWG INSULATED WIRE (TI P/N 535978-0058 OR EQUIVALENT). ALSO CUT PINS 4 & 11 OF UC28 AND CONNECT PINS 4 & 11 TO PIN 4 OF UC28 USING 30 AWG INSULATED WIRE AS ABOVE.

F. AFTER COMPONENTS ARE INSTALLED, CUT THE PINS INDICATED AND ADD JUMPERS USING 30 AWG INSULATED WIRE (TI P/N 535978-0058 OR EQUIVALENT).

- |             |            |            |
|-------------|------------|------------|
| CUT VEE10-4 |            | SIGNATURE  |
| ADD VEE10-4 | TO UD15-6  | TLSSLREADQ |
| CUT VEE4-2  |            | TLSSLREADQ |
| CUT UG2-2   |            | TLRAMCE    |
| ADD VEE4-2  | TO UG2-2   | TLRAMCE    |
| ADD VEE4-2  | TO UAA2-11 | TLRAMCEA   |
| ADD UFF7-2  | TO UAA2-12 | TLRAMCEA   |
| ADD UEE-19  | TO UAA2-13 | TLRAMCE    |
|             |            | IN (O)     |

NOTES CONT.

- F. CONT
- |             |             |          |
|-------------|-------------|----------|
| CUT UF33-4  |             | MPENG    |
| CUT UNN15-5 |             | MPENG    |
| ADD UP22-5  | TO UHH25-12 | MPENG    |
| ADD UP22-6  | TO UNN15-5  | MPENG    |
| ADD UP22-15 | TO UG25-1   | MPRESET2 |
| ADD UP22-1  | TO UTT10-10 | CLKS     |
| ADD UP22-3  | TO UD28-8   | MPENJ    |
| ADD UP22-2  | TO UP22-4   | VCC      |
| ADD UP22-4  | TO UP22-16  | VCC      |
| ADD UP22-16 | TO C50-1    | VCC      |
| ADD UP22-8  | TO C50-2    | GND      |
- CUT UJJ38-2
- |              |             |         |
|--------------|-------------|---------|
| CUT UJJ38-12 |             | GND     |
| ADD UJJ38-2  | TO UJJ38-12 | GND     |
| ADD UJJ38-2  | TO UC25-11  | TLPRESR |
|              |             | TLPRESR |

G. DIODES CR6, CR7, CR10, & CR12 SHOULD BE INSTALLED IN THE OPPOSITE DIRECTION FROM WHICH THEY ARE DRAWN. THE CATHODE SHOULD BE NEAREST THE EJECTOR EDGE OF THE PWB.

H. INSTALL SLEEVING (P/N 972436-0003) ON LEADS OF CAPACITORS C5, C6, C7, C9, & C25 AS REQUIRED TO PREVENT THE LEADS FROM SHORTING TO FEED THROUGHS.

J. INSTALL JUMPERS (P/N 972713-0001) FROM E5 TO E6, E8 TO E9, & E10 TO E11.

3. AFTER FLOW SOLDER, ADHERE ITEM 141 TO ITEM 32 (UJJ15) USING ITEM 142. ITEM 142 SHOULD FILL THE ENTIRE CONTACT SURFACE WITH AS THIN A FILM AS POSSIBLE. CENTER THE HEAT SINK (ITEM 141) ON THE IC (ITEM 32) AND ALLOW TO CURE AT LEAST 12 HOURS WITH THE PWB LAYING FLAT.

4. REWORK PROCEDURE FOR PWB 2261956 REV A ONLY:  
 A. AFTER COMPONENTS ARE INSTALLED, CONNECT UF22 PIN 12 TO UF22 PIN 14 USING 30 AWG INSULATED WIRE (TI P/N 535978-0058 OR EQUIVALENT).

5. MASK TOOLING HOLES PRIOR TO FLOW SOLDER.

6. FILL ALL HOLES EXCEPT TOOLING HOLES WITH SOLDER OR HOT MELT.

7. ITEM 143 IN THE -0001 & -0002 L.M. CONSISTS OF COMPONENTS WHICH ARE AUTO-INSERTED AND CONTAINED IN THE -5001 & -5002 L.M.

ZONE	LTN	DESCRIPTION	DATE	APPROVED
H		CU448265 (C) REV (1) (C) -0001 & -0002 L.M. ITEM 24 QTY WAS 3. ITEM 77 P/N WAS 972956-0001 DELETED ITEMS 102 106 107 & 132 (2) ON -5001 & 5002 L.M. ITEM 33 QTY WAS 2. ITEM 102 QTY WAS 4. (3) DELETED NOTATIONS W/MIS 30M 19MS 4416M 10M 144 (6) C50 WAS AT MAIN-24 (5) DELETED ROWS P/M MAIN (6) REVERSED DIODE SYMBOLS FOR CR6 CR7 CR10 & CR12 (UPDATED REV LEVEL BLK (3) IN NOTE 2H P/N 972436-0003 WAS ITEM 132 IN NOTE 2J P/N 972713-0001 WAS ITEM 107	11-6-79	E. Wang
J		CN448271 (C) REV (1) ADDED ITEM 143 TO L.M. -0001 AND -0002 AND CHANGED P/N FROM 996618-0003 ON ITEM 72 (2) CORRECTED REV LEVEL BLOCK AT ASSY LEVEL H IN PWB AND LOGIC STATUS		

DATE	3-28-79	REV	1
SCALE	4-25-79	DATE	3-28-79
SCALE	1:1	DATE	3-28-79
SCALE	1:1	DATE	3-28-79

TEXAS INSTRUMENTS  
 D 96214 2261955  
 SHEET 2



TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		DATE 03/13/80		PAGE 1 of		PART NUMBER LM 2261955-0001		REV J	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0002	REF	EA		2261957-9901	LOGIC DIAGRAM, COMM CONT, FOUR CHANNEL						
0022	00004-000	EA		0996089-0001	IC, SN74LS240N, LINE DRIVERS	001295-SN74LS240N					
0022A					UAA15 U8BA UC2 UG15						
0024	00011-000	EA		0996089-0004	IC, SN74LS244N LINE DRIVER	-SN74LS244N					
0024A					UD2 UDD7 UDG10 UEL5 UBE10						
0024B					UFF10 UH4 UH10 UJJ2 UK38						
0024C					UP20						
0025	00002-000	EA		0996755-0001	IC, SN74LS245M BUS XCVR TRANSITION	001295-SN74LS245M					
0025A					UEF4 UH7						
0030	00003-000	EA		0996029-0001	IC, SN74LS273M DCTAL D-TYPE FLIP/FLOP	TI -SN74LS273M					
0030A					UD33 UD38 UE33						
0032	00001-000	EA		2210239-0001	IC, 4-PHASE, 4MHZ CLOCK, GEN/DRVR	-SN74LS359N					
0032A					UJJ15						
0036	00001-000	EA		0219402-7408	NETWORK SN74S08N	TI- -SN74S08N					
0036A					UAA2						
0044	00001-000	EA		0222222-7150	NETWORK SN74150N						
0044A					UJ8						
0050	00001-000	EA		0972188-0001	NETWORK, NE555V, MONOLITHIC TIMING, LINEAR	SI -NE555V					
0050A					UK21						
0051	00001-000	EA		0972671-0001	NETWORK, MICROPROCESSOR, TMS9900						
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE				
			<i>A. R. ...</i>				COMMUNICATION CONTLR, FOUR CHANNEL, 3MHZ				
APPRO. ENG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.				
							7055				
								PART NUMBER		REV	
								LM 2261955-0001		J	

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		DATE 03/13/80		PAGE 2 of		PART NUMBER LM 2261955-0001		REV J	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0051A					UM11						
0052	00001-000	EA		0996475-0001	IC, TMS9900N PROGRAMMABLE SYSTEMS INTFC	001295-TMS9901N					
0052A					UJ4						
0053	00004-000	EA		0996484-0001	IC, TMS9900 SYNCHRONOUS RECEIVER XTR	001295-TMS9903					
0053A					UT22 UUU4 UUI5 UUU28						
0054	00017-000	EA		0996680-0001	IC, 16K RAM, (SEL)	001295-TMS4116/ZA072B					
0054A					UG28 UHM28 UHM33 UJJ28						
0054B					UJJ33 UK28 UK33 UL28 UL33						
0054C					UM28 UM33 UA28 UN33 UMM28						
0054D					UNM33 UP28 UP33						
0055	00001-000	EA		2261961-0001	FCC ERDM, 4K BYTE 0						
0055A					UMM7						
0056	00001-000	EA		2261961-0002	FCC ERDM, 4K BYTE 1						
0056A					UMK7						
0057	00001-000	EA		2261961-0003	FCC ERDM, 4K BYTE 2						
0057A					UMM4						
0058	00001-000	EA		2261961-0004	FCC ERDM, 4K BYTE 3						
0058A					UMK4						
0059	00002-000	EA		0996858-0001	IC, COM5014-6 DUAL BAUD RATE GENERATOR	053848-COM 5014-6					
0059A					UMU20 UY2						
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE				
							COMMUNICATION CONTLR, FOUR CHANNEL, 3MHZ				
APPRO. ENG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.				
								PART NUMBER		REV	
								LM 2261955-0001		J	

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		DATE 03/13/80		PAGE 3 of		PART NUMBER LM 2261955-0001		REV J	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0062	00001-000	EA		0772923-0005	SWITCH DUAL IN LINE, 8 POSITION	AMR -435166-5					
0062A					SVY20						
0065	00003-000	EA		0971000-0004	IC TIL-117 OPTICALLY COUPLED ISOLATOR						
0065A					UX38 UX41 UYY43						
0066	00001-000	EA		0945244-0001	SOCKET, INTEGRATED CIRCUIT, 64 PIN						
0066A					XU111						
0067	00001-000	EA		2210188-0001	SOCKET, LOW PROFILE, DIP, 3 CONT, 8 PINS	003612-D1L88P-108					
0067A					XUK21						
0068	00006-000	EA		2210188-0007	SOCKET, LOW PROFILE, DIP, 24 PINS	003612-D1L824P-108					
0068A					XUMK1 XUMK4 XUMK7 XUMM1						
0068B					XUMM4 XUMM7						
0069	00007-000	EA		2210188-0005	SOCKET, LOW PROFILE, DIP, 20 PINS	003612-D1L820P-108					
0069A					XUC33 XUC38 XUE38 XUT122						
0069B					XUUM4 XUMM15 XUMU28						
0070	00001-000	EA		0972499-0001	NETWORK, LM320T-5, Q/MC1905CP, -5 VOLT	SEE - TI DRAWING					
0070A					Q1						
0071	00001-000	EA		0972445-0001	CRYSTAL, 12 MHZ, QUARTZ	SEE - TI DRAWING					
0071A					Y1						
0072	00002-000	EA		0538031-0015	CRYSTAL UNLT, QUARTZ 4.9152 MHZ						
0072A					Y2 Y3						
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE				
							COMMUNICATION CONTLR, FOUR CHANNEL, 3MHZ				
APPRO. ENG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.				
								PART NUMBER		REV	
								LM 2261955-0001		J	

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		DATE 03/13/80		PAGE 4 of		PART NUMBER LM 2261955-0001		REV J	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0074	00001-000	EA		2261953-0001	TRANSFORMER, BERRITE, ISOLATION						
0074A					TI						
0075	00001-000	EA		0996936-0001	IC, UA78L05ACL, POSITIVE VOLTAGE REGLTR	001295-UA78L05ACL					
0075A					Q4						
0076	00001-000	EA		0996938-0001	IC, MC79L05ACP, NEGATIVE VOLTAGE REGULATOR	004713-MC79L05ACP					
0076A					Q5						
0077	00002-000	EA		0539879-0001	TRANSISTOR 2N3725A	TI -2N3725A					
0077A					Q2 Q3						
0078	00002-000	EA		0972268-0002	DIODE 1N4934-1 AMP	MUT - 1N4934					
0078A					CR1 CR4						
0080	00008-000	EA		0972118-0004	DIODE 1N5238	MUT - 1N5238					
0080A					CR5 CR6 CR7 CR8 CR9 CR10						
0080B					CR11 CR12						
0095	00001-000	EA		0972927-0006	CAP FIX MICA 500V 10.0 PF +/- 0.5 RF	QPL -CM05C1000G0					
0095A					C25						
0096	00002-000	EA		0972927-0034	CAP FIX MICA 500V 200 PF 5 %	QPL -CM05E201J00					
0096A					C5 C21						
0097	00001-000	EA		0972927-0043	CAP FIX MICA 300V 420 PF 5 %	QPL -CM05F471J00					
0097A					C9						
0098	00001-000	EA		0972927-0045	CAP FIX MICA 300V 560 PF 5 %	QPL -CM05F561J00					
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE				
							COMMUNICATION CONTLR, FOUR CHANNEL, 3MHZ				
APPRO. ENG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.				
								PART NUMBER		REV	
								LM 2261955-0001		J	

TEXAS INSTRUMENTS INCORPORATED

DATE 03/13/80 LIST OF MATERIAL PAGE 5 of PART NUMBER LM 2261955-0001 REV J

PART NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0098A				C6		
0099	00001.000	EA		0972927-0048	CAP FLX MICA 300V 750 PF 5 X	QPL -CM05F751JQC
0099A				C7		
0105	00003.000	EA		0996681-0001	CAPACITOR,35MF 25V -10%+75% ALUM ELCTLY	056289-3002076025DHS
0105A				C23 C56 C62		
0108	00004.000	EA		0972709-0001	CONNECTOR,RS-232,25 PIN MALE	
0108A				P3 P4 P5 P6		
0109	00001.000	EA		0972706-0002	HEADER,COMM.,RT ANGLE,20 CONTACT	
0109A				P7		
0110	00001.000	EA		0972537-0003	HEADER,LMD MED RT ANGLE	072619-550-U406
0110A				CR13		
0111	00002.000	EA		0965239-0001	BRACKET-STIFFENER, PWB, 141M	
0112	00002.000	EA		0944954-0001	INSULATOR, PWB, 141M	
0113	00006.000	EA		0972684-0002	SCREW,THD BRNG,HEX N5MB HD,2-56X1/4 LG	
0114	00002.000	EA		0533844-0001	EJECTOR, NYLON, NON-LOCKING, PWB	
0117	00001.000	EA		2261962-0001	FCCG PROM 0	
0117A				UC38		
0118	00001.000	EA		2261962-0002	FCCG PROM 1	
0118A				UC33		
0119	00001.000	EA		2261962-0003	FCCG PROM 2	
DRAFTSMAN DATE CED DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE COMMUNICATION CONTRL,FOUR CHANNEL,3MHZ						
APPRO. MFG. DATE APPR. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER LM 2261955-0001 REV J						

TEXAS INSTRUMENTS INCORPORATED

DATE 03/13/80 LIST OF MATERIAL PAGE 6 of PART NUMBER LM 2261955-0001 REV J

PART NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0119A				UE38		
0121	00017.000	EA		2210188-0003	SOCKET,LOW PROFILE,DIP,16 CONT	003612-D1L816P-108
0121A				XMG28 XUM28 XUM33 XUJ28		
0121B				XUJ33 XUM28 XUM33 XUL28		
0121C				XUL33 XUM28 XUM33 XUM28		
0121D				XUM33 XUM28 XUM33 XUM28		
0121E				XUP33		
0124	00002.000	EA		0530127-0001	PAD,MOUNTING,TO-18 4 LEAD, WHITE	013103-7717-44M
0125	AR	EA		0996069-0003	ADM,SOLID,THRNPLSTC 258 BAG ANAEROBIC	PERSAL-917-6302
0126	00008.000	EA		0406769-0001	SCREW,SPECIAL,CONNECTOR LOCKING	CIE - 020418-2
0127	REF	EA		2261958-0001	UNIT TEST PROG, FCCG	
0128	REF	EA		2261959-0001	SPECIFICATION,FCCG	
0130	00001.000	EA		2210188-0008	SOCKET, LOW PROFILE, DIP, 40 PINS	003612-D1L840P-108
0130A				XUJ4		
0131	00001.000	EA		0772923-0004	SWITCH DUAL IN LINE, 7 POSITION	AMP -435166-1
0131A				SKY2		
0141	00001.000	EA		2210458-0001	HEAT SINK, DIP	013103-60108
0142	AR	TU		0417857-0001	ADHESIVE,SILICON THERMAL COND	
0143	00001.000	EA		2261955-5001	AUTO INSERT TAPE FOR 2261955-0001	
0145	REF	EA		2261959-0001	SPEC,OPTICALLY ISOLATED MULTI-DROP MUX	
DRAFTSMAN DATE CED DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE COMMUNICATION CONTRL,FOUR CHANNEL,3MHZ						
APPRO. MFG. DATE APPR. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER LM 2261955-0001 REV J						

TEXAS INSTRUMENTS INCORPORATED

DATE 03/13/80 LIST OF MATERIAL PAGE 1 of PART NUMBER LM 2261955-0002 REV J

PART NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0002	REF	EA		2261957-9901	LOGIC DIAGRAM,CORR CORN,FOUR CHANNEL	
0022	00004.000	EA		0996089-0001	IC,SN74LS244N,LINE DRIVERS	001295-SN74LS244N
0022A				UAA15 UBB4 UC3 UC15		
0024	00011.000	EA		0996089-0004	IC,SN74LS244N LINE DRIVER	-SN74LS244N
0024A				U02 UDD7 UDD10 ME15 UEE10		
0024B				UFF10 UM4 UM10 UJJ2 UM38		
0024C				UR20		
0025	00002.000	EA		0996755-0001	IC,SN74LS245N BUS XCVR TRANSITION	001295-SN74LS245N
0025A				UFF4 UM7		
0030	00003.000	EA		0996029-0001	IC,SN74LS273N UGTL D-TYPE FLIP/FLOP	TI -SN74LS273N
0030A				UD33 UD38 UE33		
0032	00001.000	EA		2210239-0001	IC,4-PHASE, 4MHZ CLOCK GEN/DRVR	-SN74LS359N
0032A				UJJ15		
0036	00001.000	EA		0219402-7408	NETWORK SN74S08N	TI- -SN74S08N
0036A				UAA2		
0044	00001.000	EA		0222222-7150	NETWORK SN74150N	
0044A				UJ8		
0050	00001.000	EA		0972188-0001	NETWORK,ME555V,MONOLITHIC TIMING,LINEAR	SI -NE555V
0050A				UM21		
0054	00017.000	EA		0996680-0001	IC, 16K RAM, (SEL)	001295-TMS4116A2A0727
DRAFTSMAN DATE CED DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE COMMUNICATION CONTRL,FOUR CHANNEL,4MHZ						
APPRO. MFG. DATE APPR. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER LM 2261955-0002 REV J						

TEXAS INSTRUMENTS INCORPORATED

DATE 03/13/80 LIST OF MATERIAL PAGE 2 of PART NUMBER LM 2261955-0002 REV J

PART NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0054A				UG28 UMH28 UMH33 UJJ28		
0054B				UJJ33 UK28 UK33 UL28 UL33		
0054C				UM28 UM33 UA28 UM33 UMN28		
0054D				UMN33 UP28 UP33		
0059	00002.000	EA		0996858-0001	IC,CONSOLA-6 DUAL BAUD RATE GENERATOR	053848-COM 5016-6
0059A				UUL20 UY2		
0062	00001.000	EA		0772923-0005	SWITCH DUAL IN LINE, 8 POSITION	AMP -435166-3
0062A				SKY20		
0065	00003.000	EA		0971000-0004	IC TIL-117 OPTICALLY COUPLED ISOLATOR	
0065A				UX38 UX41 UYV43		
0066	00001.000	EA		0945244-0001	SOCKET,INTEGRATED CIRCUIT,64 PIN	
0066A				XULL11		
0067	00001.000	EA		2210188-0001	SOCKET,LOW PROFILE,DIP, 3 CONT, 8 PINS	003612-D1L88P-108
0067A				XUK21		
0068	00006.000	EA		2210188-0007	SOCKET, LOW PROFILE, DIP, 24 PINS	003612-D1L824P-108
0068A				XUKK1 XUKK4 XUKK7 XUMN1		
0068B				XUMN4 XUMN7		
0069	00007.000	EA		2210188-0005	SOCKET, LOW PROFILE, DIP, 20 PINS	003612-D1L820P-108
0069A				XUC33 XUC38 XUC38 XUT22		
DRAFTSMAN DATE CED DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE COMMUNICATION CONTRL,FOUR CHANNEL,4MHZ						
APPRO. MFG. DATE APPR. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER LM 2261955-0002 REV J						

TEXAS INSTRUMENTS INCORPORATED		DATE 03/13/80		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM 2261955-0002		REV J	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0070	00001.000	EA		0972499-0001	NETWORK, LM320T-5.0/MC1905CP, -5 VOLT	SEE - TI DRAWING					
0070A					Q1						
0072	00002.000	EA		0538031-0015	CRYSTAL UNIT, QUARTZ 4.9152 MHZ						
0072A					Y2 Y3						
0074	00001.000	EA		2261953-0001	TRANSFORMER, FERRITE, ISOLATION						
0074A					T1						
0075	00001.000	EA		0996936-0001	IC, UA78L05AGLP, POSITIVE VOLTAGE RGLTR	001295-UA78L05AGLP					
0075A					Q4						
0076	00001.000	EA		0996938-0001	IC, MC79L05AGP, NEGATIVE VOLTAGE REGULATOR	004713-MC79L05AGP					
0076A					Q5						
0077	00002.000	EA		0539879-0001	TRANSISTOR 2N3725A	TI -2N3725A					
0077A					Q2 Q3						
0078	00002.000	EA		0972268-0002	DIODE 1N4934-1 AMP	MOT - 1N4934					
0078A					CR1 CR4						
0080	00008.000	EA		0972118-0004	DIODE 1N5338	MOT --1N5338					
0080A					CR5 CR6 CR7 CR8 CR9 CR10						
0080B					CR11 CR12						
0095	00001.000	EA		0972927-0006	CAP FLX MICA 500V 10.0 PF +/- 0.5 RF	QPL -CM05C100000					
0095A					C25						
0096	00002.000	EA		0972927-0004	CAP FLX MICA 500V 200 PF 5 %	QPL -CM05E201J00					
DRAFTSMAN DATE CED DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE COMMUNICATION CONT'L, FOUR CHANNEL, 4MHZ											
APPROV. MGR. DATE APPR. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER LM 2261955-0002 REV J											

TEXAS INSTRUMENTS INCORPORATED		DATE 03/13/80		LIST OF MATERIAL		PAGE 4 of		PART NUMBER LM 2261955-0002		REV J	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0006A					C5 C2E						
0097	00001.000	EA		0972927-0043	CAP FLX MICA 300V 470 PF 5 %	QPL -CM05F471J06					
0097A					C9						
0098	00001.000	EA		0972927-0045	CAP FLX MICA 300V 560 PF 5 %	QPL -CM05F561J06					
0098A					C6						
0099	00001.000	EA		0972927-0048	CAP FLX MICA 300V 750 PF 5 %	QPL -CM05F751J06					
0099A					C7						
0105	00003.000	EA		0996601-0001	CAPACITOR, 35NF 25V -10%+75% ALUM ELCTLT	056289-3002026025DH5					
0105A					C23 C36 C42						
0108	00004.000	EA		0972709-0001	CONNECTOR, RS-232, 25 PIN MALE						
0108A					P3 P4 P5 P6						
0109	00001.000	EA		0972706-0002	HEADER, COMM., RT ANGLE, 20 CONTACT						
0109A					P7						
0110	00001.000	EA		0972537-0003	DIODE, LED RED RT ANGLE	072619-550-0406					
0110A					CR13						
0111	00002.000	EA		0945239-0001	BRACKET-STIFFENER, PWB, 14IN						
0112	00002.000	EA		0944954-0001	INSULATOR, PWB, 14IN						
0113	00006.000	EA		0972684-0002	SCREW, THD 5/8IN, MEX MSMA MD, 2-56X1.4 LG						
0114	00002.000	EA		0533844-0001	EJECTOR, M40M, NON-LOCKING, PMS						
0117	00001.000	EA		2261962-0001	FCC PROM 0						
DRAFTSMAN DATE CED DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE COMMUNICATION CONT'L, FOUR CHANNEL, 4MHZ											
APPROV. MGR. DATE APPR. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER LM 2261955-0002 REV J											

TEXAS INSTRUMENTS INCORPORATED		DATE 03/13/80		LIST OF MATERIAL		PAGE 5 of		PART NUMBER LM 2261955-0002		REV J	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0117A					UC38						
0118	00001.000	EA		2261962-0002	FCC PROM 1						
0118A					UC33						
0119	00001.000	EA		2261962-0003	FCC PROM 2						
0119A					UE38						
0121	00017.000	EA		2210188-0003	SOCKET, LOW PROFILE, DIP, 16 GONT	003612-D1L816P-108					
0121A					XUG28 XUMH28 XUMH33 XUJJ28						
0121B					XUJJ33 XUK28 XUK33 XUL28						
0121C					XUL33 XUN28 XUN33 XUN28						
0121D					XUN33 XUMH28 XUMH33 XUP28						
0121E					XUP33						
0124	00002.000	EA		0530127-0001	PAD, MOUNTING, TU-18 4 L6AD, WHITE	013103-7717-44N					
0125	AR	EA		0996069-0003	ADM, SOLID, THERMALSTC 25# BAG ANAEROBIC	PERSAL-917-6302					
0126	00008.000	EA		0406769-0001	SCREW, SPECIAL, CONNECTOR LOCKING	CIE - D20418-2					
0127	REF	EA		2261958-9901	UNIT TEST PROC, FCCC						
0128	REF	EA		2261959-9901	SPECIFICATION, FCCC						
0130	00001.000	EA		2210188-0009	SOCKET, LOW PROFILE, DIP, 40 PINS	003612-D1L840P-108					
0130A					XUJ4						
0131	00001.000	EA		0772923-0004	SWITCH DUAL IN LINE, 7 POSITION	AMP -435166-1					
0131A					SVY2						
DRAFTSMAN DATE CED DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE COMMUNICATION CONT'L, FOUR CHANNEL, 4MHZ											
APPROV. MGR. DATE APPR. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER LM 2261955-0002 REV J											

TEXAS INSTRUMENTS INCORPORATED		DATE 03/13/80		LIST OF MATERIAL		PAGE 6 of		PART NUMBER LM 2261955-0002		REV J	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0133	00001.000	EA		2210175-0001	IC, MICROPROCESSOR, TMS9900-40	001295-TMS9900-40					
0133A					UM11						
0134	00001.000	EA		2210330-0001	IC, PROGRAMMABLE SYSTEMS INTERFACE	001295-TMS9901-40					
0134A					UJ4						
0135	00004.000	EA		2210243-0001	IC, SYNCHRONOUS RECEIVER TRANSMITTER, 4MHZ	001295-TMS9903-40					
0135A					UT122 UMUM UUI5 UUI28						
0136	00001.000	EA		2265154-0001	EPRON, FCCC, 4MHZ, BYTE 0						
0136A					UMN7						
0137	00001.000	EA		2265154-0002	ERRON, FCCC, 4MHZ, BYTE 1						
0137A					UMK7						
0138	00001.000	EA		2265154-0003	ERRON, FCCC, 4MHZ, BYTE 2						
0138A					UMN4						
0139	00001.000	EA		2265154-0004	ERRON, FCCC, 4MHZ, BYTE 3						
0139A					UMK4						
0140	00001.000	EA		0996108-0006	CRYSTAL, QUARTZ, 30 OHMS, .015X, 16.000 MHZ	013454-MC-18U, 16MHZ					
0140A					Y1						
0141	00001.000	EA		2210458-0001	HEAT SINK, DIP	013103-60108					
0142	AR	TU		0417857-0001	ADHESIVE, SILICON THERMAL CONG						
0143	00001.000	EA		2261955-5002	AUTO INSERT TAPE FOR 2261955-0002						
0145	REF	EA		2265159-9901	SPEC, OPTICALLY ISOLATED MULTI-DRIP MOD						
DRAFTSMAN DATE CED DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE COMMUNICATION CONT'L, FOUR CHANNEL, 4MHZ											
APPROV. MGR. DATE APPR. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER LM 2261955-0002 REV J											

Four Channel Communications Controller Assembly

TEXAS INSTRUMENTS INCORPORATED DATE 03/13/80 LIST OF MATERIAL PAGE 1 of 4 PART NUMBER LM 2261955-5001 REV J

PART NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEASURE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0001	00001.000	EA		2261954-0001	PM8, COMM CONTROLLER, FOUR CHANNEL	
0003	00002.000	EA		0972900-7400	NETWORK SN74LS00N	TI -SN74LS00N
0003A					UF28 UMM20	
0004	00002.000	EA		0972900-7402	NETWORK SN74LS02N	
0004A					UMM22 UQ010	
0005	00008.000	EA		0972900-7404	NETWORK SN74LS04N	
0005A					UC22 UK22 UKK10 UT1A UT10	
0005B					UT15 UT120 UMM33	
0006	00002.000	EA		0972749-0001	NETWORK SN74LS08N	
0006A					UF20 UMM38	
0007	00001.000	EA		0972900-7410	NETWORK SN74LS10N	
0007A					UJJ25	
0008	00001.000	EA		0972788-0001	NETWORK SN74LS11, POSITIVE AND GATE	
0008A					UG38	
0009	00001.000	EA		0972784-0002	NETWORK SN74LS14N	
0009A					UE20	
0010	00002.000	EA		0972900-7432	NETWORK SN74LS32N	TI -SN74LS32N
0010A					UMM7 UT17	
0011	00001.000	EA		0972657-0001	NETWORK SN74LS37N	
0011A					MP25	
DRAFTSMAN DATE CED DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO INSERT TAPE FOR 2261955-0001						
APPROVED DATE APP'D PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER LM 2261955-5001 REV J						

TEXAS INSTRUMENTS INCORPORATED DATE 03/13/80 LIST OF MATERIAL PAGE 2 of 4 PART NUMBER LM 2261955-5001 REV J

PART NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEASURE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0012	00001.000	EA		0972783-0001	NETWORK SN74LS42N BCD/DEC	
0012A					UE22	
0013	00008.000	EA		0972900-7474	NETWORK SN74LS74N	
0013A					UAA38 UE22 UG20 UG25 UMM20	
0013B					UMM22 UK25 UM25	
0014	00002.000	EA		0972900-7100	NETWORK SN74LS109N	TI -SN74LS109N
0014A					UF25 UL38	
0015	00002.000	EA		0972900-7138	NETWORK SN74LS138N	TI -SN74LS138N
0015A					UE22 UM22	
0016	00002.000	EA		0972900-7139	NETWORK SN74LS139N	TI -SN74LS139N
0016A					UM2 UP4	
0017	00004.000	EA		0972900-7153	NETWORK SN74LS153N	TI -SN74LS153N
0017A					UQ07 UQ020 UQ025 US2	
0018	00001.000	EA		0972900-7155	NETWORK SN74LS155N	TI -SN74LS155N
0018A					UE20	
0019	00005.000	EA		0972649-0001	NETWORK SN74LS163N	
0019A					UGC10 UDD4 UE2 UEE7 UE2	
0020	00003.000	EA		0972900-7175	NETWORK SN74LS175N	
0020A					UD15 UF15 UE38	
0021	00004.000	EA		0996845-0001	IC, AM29701MG 16 X 4-BIT RAM	034335-AM29701PC
DRAFTSMAN DATE CED DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO INSERT TAPE FOR 2261955-0001						
APPROVED DATE APP'D PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER LM 2261955-5001 REV J						

TEXAS INSTRUMENTS INCORPORATED DATE 03/13/80 LIST OF MATERIAL PAGE 3 of 4 PART NUMBER LM 2261955-5001 REV J

PART NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEASURE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0021A					UE4 UFE7 UG2 UMM2	
0023	00004.000	EA		0994588-0001	IC, SN74LS242N QUADRUPLE BUS RECEIVER	012955-N74LS242N
0023A					UB87 UB810 UCC7 UE25	
0026	00003.000	EA		0972648-0001	NETWORK SN74LS251N	
0026A					UMM4 US4 US25	
0027	00002.000	EA		0972900-7253	NETWORK SN74LS253N	TI -SN74LS253N
0027A					US7 US22	
0028	00002.000	EA		0996136-0001	IC, SN74LS257N, DATA SELECTORS/MULTIPLEXER	TI -SN74LS257N
0028A					UM25 UMM25	
0029	00009.000	EA		0996023-0001	IC, LOW POWER SCHOTTKY 8 BIT SN74LS259N	TI -SN74LS259N
0029A					UMM2 UQ022 US10 US15 US20	
0029B					US28 UT32 UT128 UUU2	
0031	00002.000	EA		0972811-0001	NETWORK SN74LS280N	
0031A					UM38 UP38	
0033	00001.000	EA		0994508-0001	IC, 74LS393M DUAL BINARY COUNTER	001295-74LS393N
0033A					UJJ38	
0034	00001.000	EA		0219402-7400	NETWORK SN74LS00N	
0034A					UD25	
0035	00002.000	EA		0219402-7402	NETWORK SN74LS02N	TI -SN74LS02N
0035A					UC25 UMM25	
DRAFTSMAN DATE CED DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO INSERT TAPE FOR 2261955-0001						
APPROVED DATE APP'D PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER LM 2261955-5001 REV J						

TEXAS INSTRUMENTS INCORPORATED DATE 03/13/80 LIST OF MATERIAL PAGE 4 of 4 PART NUMBER LM 2261955-5001 REV J

PART NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEASURE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0036	00003.000	EA		0219402-7408	NETWORK SN74LS08N	TI -SN74LS08N
0036A					UQ22 UMM15 UM22	
0037	00002.000	EA		0219402-7411	NETWORK SN74LS11N	
0037A					UAA22 UD28	
0038	00002.000	EA		0219402-7432	NETWORK SN74LS32N	TI -SN74LS32N
0038A					UAA28 UT125	
0039	00002.000	EA		0219402-7474	NETWORK SN74LS74N	
0039A					UC28 UL25	
0040	00002.000	EA		0972655-0001	NETWORK SN74LS133N	
0040A					UC15 UMM18	
0041	00001.000	EA		0972751-0001	NETWORK SN74LS86N	
0041A					UQ04	
0042	00001.000	EA		0222222-7417	NETWORK SN7417N	
0042A					UB20	
0043	00001.000	EA		0219402-7112	NETWORK SN74LS12N	TI -SN74LS12N
0043A					UR22	
0045	00003.000	EA		0972656-0001	NETWORK SN74376N	
0045A					UE33 UJJ20 UJ22	
0046	00003.000	EA		0219401-1107	NETWORK SN75147N INTERFACE MIC	
0046A					UMM7 UMM22 UVT38	
DRAFTSMAN DATE CED DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO INSERT TAPE FOR 2261955-0001						
APPROVED DATE APP'D PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER LM 2261955-5001 REV J						

TEXAS INSTRUMENTS INCORPORATED		DATE 03/13/80		LIST OF MATERIAL		PAGE 5 of		PART NUMBER LM 2261955-5001		REV J	
PART ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0047	00003-000	EA		0996384-0001	IC, SN75112N DUAL LINE DRIVER						
0047A					UUU10 UAA25 UX38						
0048	00002-000	EA		0974674-0001	NETWORK, SN75138N						
0048A					UAA25 UAA33						
0049	00008-000	EA		0972450-0002	NETWORK, SN75189AM/MC1489AL QUAD LINE RCR SEE - TI DRAWING						
0049A					UY4 UY7 UY10 UY15 UY22						
0049B					UY25 UY28 UY33						
0060	00003-000	EA		0974849-0001	NETWORK, DM8136						
0060A					UA4 UA7 UA10						
0061	00018-000	EA		0996668-0001	IC, LINE DRIVER 9636TC	007263-9636TC					
0061A					UY4 UY5 UY7 UY8 UY10 UY12						
0061B					UY15 UY16 UY20 UY21 UY22						
0061C					UY23 UY25 UY26 UY28 UY29						
0061D					UY33 UY34						
0063	00002-000	EA		0972141-0041	NETWORK, RES= 1.0 K OHM 2 X 14 PIN DIP	BEC - 899-1-RL-OK					
0063A					UCC4 UQGL5						
0064	00001-000	EA		0996666-0001	IC, TL3524 CONTROLLER SWITCHING & RGLTR	001295-TL3524					
0064A					UQ034						
0073	00001-000	EA		0538292-0010	COILS, RF, WLD FXD, LT10K070	015305-MS75084-10					
0073A					LI						
DRAFTSMAN DATE CED DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE											
APPRO. DATE APPD. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO.											
AUTO INSERT TAPE FOR 2261955-0001											
PART NUMBER LM 2261955-5001 REV J											

TEXAS INSTRUMENTS INCORPORATED		DATE 03/13/80		LIST OF MATERIAL		PAGE 6 of		PART NUMBER LM 2261955-5001		REV J	
PART ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0079	00002-000	EA		0972932-0001	DIODE 1N9148	SEE TI- DRAWING					
0079A					CR2 CR3						
0081	00001-000	EA		0972977-0081	RES, 540OHMS, .5W 5% CHRSN, INSULATED, FIXED	-RCR20654LJS					
0081A					R22						
0082	00005-000	EA		0972946-0021	RES FIX 15.0 OHM 5 X .25 M CARBON FILM	R0H - R-25					
0082A					R7 R8 R9 R10 R11						
0083	00001-000	EA		0972946-0041	RES FIX 100 OHM 5 X .25 M CARBON FILM	R0H - R-25					
0083A					R17						
0084	00004-000	EA		0972946-0049	RES FIX 220 OHM 5 X .25 M CARBON FILM	R0H - R-25					
0084A					R24 R47 R47 R68						
0085	00002-000	EA		0972946-0053	RES FIX 330 OHM 5 X .25 M CARBON FILM	R0H - R-25					
0085A					R2 R5						
0086	00001-000	EA		0972946-0045	RES FIX 150 OHM 5 X .25 M CARBON FILM	R0H - R-25					
0086A					R66						
0087	00002-000	EA		0972946-0059	RES FIX 500 OHM 5 X .25 M CARBON FILM	R0H - R-25					
0087A					R20 R21						
0088	00003-000	EA		0972946-0061	RES FIX 680 OHM 5 X .25 M CARBON FILM	R0H - R-25					
0088A					R3 R13 R14						
0089	00004-000	EA		0972946-0065	RES FIX 100K OHM 5 X .25 M CARBON FILM	R0H - R-25					
0089A					R12 R15 R16 R18						
DRAFTSMAN DATE CED DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE											
APPRO. DATE APPD. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO.											
AUTO INSERT TAPE FOR 2261955-0001											
PART NUMBER LM 2261955-5001 REV J											

TEXAS INSTRUMENTS INCORPORATED		DATE 03/13/80		LIST OF MATERIAL		PAGE 7 of		PART NUMBER LM 2261955-5001		REV J	
PART ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0090	00002-000	EA		0972946-0075	RES FIX 2.7K OHM 5 X .25 M CARBON FILM	R0H - R-25					
0090A					R4 R19						
0091	00005-000	EA		0972946-0081	RES FIX 6.7K OHM 5 X .25 M CARBON FILM	R0H - R-25					
0091A					R4 R24 R36 R44 R56						
0092	00008-000	EA		0972946-0092	RES FIX 1.0 OHM 5 X .25 M CARBON FILM	R0H - R-25					
0092A					R33 R35 R43 R45 R53 R55 R63						
0092B					R65						
0093	00001-000	EA		0972946-0089	RES FIX 10K OHM 5 X .25 M CARBON FILM	R0H - R-25					
0093A					R1						
0094	00018-000	EA		0972946-0105	RES FIX 47 K OHM 5 X .25 M CARBON FILM	R0H - R-25					
0094A					R28 R29 R30 R31 R37 R38 R39						
0094B					R40 R41 R48 R49 R50 R51 R57						
0094C					R58 R59 R60 R61						
0100	00025-000	EA		0972757-0017	CAP FIX CBR 2200 10% 50V	007115-CAC02X7R222K10					
0100A					C69 C75 C86 C77 C78 C79 C80						
0100B					C84 C85 C86 C87 C88 C89 C92						
0100C					C93 C94 C95 C96 C97 C100						
0100D					C101 C102 C103 C104 C105						
0101	00011-000	EA		0972757-0025	CAP FIX CBR .01MF 10% 50V						
0101A					C8 C33 C34 C81 C82 C90 C91						
DRAFTSMAN DATE CED DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE											
APPRO. DATE APPD. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO.											
AUTO INSERT TAPE FOR 2261955-0001											
PART NUMBER LM 2261955-5001 REV J											

TEXAS INSTRUMENTS INCORPORATED		DATE 03/13/80		LIST OF MATERIAL		PAGE 8 of		PART NUMBER LM 2261955-5001		REV J	
PART ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0101B					C98 C99 C104 C107						
0102	00045-000	EA		0972763-0021	CAP., FIXED, AXIAL LEAD, .047 UF, .50V, -20%						
0102A					C1 C2 C3 C4 C10 C18 C23 C13						
0102B					C16 C15 C16 C17 C18 C19 C20						
0102C					C22 C24 C28 C31 C39 C45 C46						
0102D					C47 C48 C49 C50 C55 C57 C58						
0102E					C59 C60 C64 C65 C66 C67 C74						
0102F					C83 C108 C109 C112 C113						
0102G					C114 C115 C116 C117						
0103	00005-000	EA		0972924-0013	CAP FIX TANT SOLID 2.2 MFD 10 X 20 VOLTS GPL	-M39003/1-2283					
0103A					C63 C70 C71 C72 C73						
0104	00001-000	EA		0972924-0010	CAP FIX TANT SOLID 22 MFD 10 X 15 VOLTS GPL	-M39003/1-2271					
0104A					C40						
0115	00010-000	EA		0972763-0025	CAPACITOR, .10UF 50V FX, CERAMIC D16L	CWR CA-C0325010420508					
0115A					C27 C29 C32 C35 C37 C41 C43						
0115B					C51 C53 C68						
0116	00011-000	EA		0972763-0032	CAP FIXED .39 UF 50 VOLTS	UL -L53C3942					
0116A					C28 C30 C34 C38 C42 C44 C52						
0116B					C54 C61 C110 C111						
0120	00001-000	EA		2261964-0001	FCLC PHON 3						
DRAFTSMAN DATE CED DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE											
APPRO. DATE APPD. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO.											
AUTO INSERT TAPE FOR 2261955-0001											
PART NUMBER LM 2261955-5001 REV J											

TEXAS INSTRUMENTS INCORPORATED		DATE 03/13/80		LIST OF MATERIAL		PAGE 9 of		PART NUMBER LM 2261955-5001		REV J		
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEAS	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0120A					UMN10							
0123	00001.000	EA		0418766-0239	RES,FIXD,CPSM,STYLE RCR20, 5.6 OHMS R23	039008-KCR20G5M6J5						
0123A												
0129	00001.000	EA		0219402-7138	NETWORK SN74LS138N							
0129A					UR15							
0144	00002.000	EA		0972946-0068	RES FIX 1/2SK OHM 5 X .25 W CARBON FILM R45 R46	R0H - R-25						
0144A												
DRAFTSMAN DATE CDD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE												
APPROV. DATE APPR PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. AUTO INSERT TAPE FOR 2261955-0001												
										PART NUMBER LM 2261955-5001		REV J

TEXAS INSTRUMENTS INCORPORATED		DATE 03/13/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 2261955-5002		REV J		
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEAS	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00001.000	EA		2261956-0001	PMB, COMM CONTROLLER, FOUR CHANNEL							
0003	00002.000	EA		0972900-7400	NETWORK SN74LS00N	TI -SN74LS00N						
0003A					UR28 UMN20							
0004	00002.000	EA		0972900-7402	NETWORK SN74LS02N							
0004A					UMN22 UQ010							
0005	00008.000	EA		0972900-7404	NETWORK SN74LS04N							
0005A					UC22 UM22 UMN10 UTE6 UET10							
0005B					UT15 UET20 UMI33							
0006	00002.000	EA		0972749-0001	NETWORK, SN74LS08N							
0006A					UF20 UMN38							
0007	00001.000	EA		0972900-7410	NETWORK SN74LS10N							
0007A					UJ25							
0008	00001.000	EA		0972788-0001	NETWORK, SN74LS11, POSITIVE AND GATE							
0008A					UG38							
0009	00001.000	EA		0972784-0002	NETWORK SN74LS14N							
0009A					UE20							
0010	00002.000	EA		0972900-7432	NETWORK SN74LS32N	TI -SN74LS32N						
0010A					UMN7 UET7							
0011	00001.000	EA		0972657-0001	NETWORK, SN74LS37N							
0011A					UR25							
DRAFTSMAN DATE CDD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE												
APPROV. DATE APPR PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. AUTO INSERT TAPE FOR 2261955-0002												
										PART NUMBER LM 2261955-5002		REV J

TEXAS INSTRUMENTS INCORPORATED		DATE 03/13/80		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM 2261955-5002		REV J		
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEAS	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0012	00001.000	EA		0972783-0001	NETWORK, SN74LS42N BCD/DEC							
0012A					UE22							
0013	00008.000	EA		0972900-7474	NETWORK SN74LS74N							
0013A					UAA38 UE22 UG20 UG25 UMN20							
0013B					UMN22 UM25 UMI25							
0014	00002.000	EA		0972900-7109	NETWORK SN74LS109N	TI -SN74LS109N						
0014A					UE25 UL38							
0015	00002.000	EA		0972900-7138	NETWORK SN74LS138N	TI -SN74LS138N						
0015A					UL22 UM22							
0016	00002.000	EA		0972900-7139	NETWORK SN74LS139N	TI -SN74LS139N						
0016A					UR2 UR4							
0017	00004.000	EA		0972900-7153	NETWORK SN74LS153N	TI -SN74LS153N						
0017A					UQ07 UQ020 UQ025 U52							
0018	00001.000	EA		0972900-7155	NETWORK SN74LS155N	TI -SN74LS155N						
0018A					UE28							
0019	00005.000	EA		0972669-0001	NETWORK, SN74LS163N							
0019A					UCG10 UDDA UE2 UEE7 UE2							
0020	00003.000	EA		0972900-7175	NETWORK SN74LS175N							
0020A					UD15 UF15 UF38							
0021	00004.000	EA		0996845-0001	IC, AM29301PQ 16 X 4-BIT RAM	034335-AM2901PL						
DRAFTSMAN DATE CDD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE												
APPROV. DATE APPR PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. AUTO INSERT TAPE FOR 2261955-0002												
										PART NUMBER LM 2261955-5002		REV J

TEXAS INSTRUMENTS INCORPORATED		DATE 03/13/80		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM 2261955-5002		REV J		
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEAS	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0021A					UE64 UEE7 UE2 UMN2							
0023	00004.000	EA		0996588-0001	IC, SN74ALS242N QUADRUPLE BUS RECEIVER	012985-N74LS242N						
0023A					UM87 UMI10 UCG7 UE25							
0026	00003.000	EA		0972648-0001	NETWORK SN74LS251N							
0026A					UMN4 US4 US25							
0027	00002.000	EA		0972900-7253	NETWORK SN74LS253N	TI -SN74LS253N						
0027A					US7 US22							
0028	00002.000	EA		0996136-0001	IC, SN74ALS257N, DATA SELECTORS/MULTIPLEXER	TI -SN74LS257N						
0028A					UM25 UMN25							
0029	00009.000	EA		0996023-0001	IC, LOW POWER SCHOTTKY 8 BIT SN74LS259N	TI -SN74LS259N						
0029A					UMN2 UQ022 US80 US15 US20							
0029B					US28 UET2 UET28 UMN2							
0031	00002.000	EA		0972811-0001	NETWORK-SN74LS280N							
0031A					UM38 UP38							
0033	00001.000	EA		0996508-0001	IC, 74ALS392N DUAL BINARY COUNTER	001295-74LS392N						
0033A					UJJ38							
0034	00001.000	EA		0219402-7400	NETWORK SN74LS00N							
0034A					UB25							
0035	00002.000	EA		0219402-7402	NETWORK SN74LS02N	TI -SN74LS02N						
0035A					UC25 UMN25							
DRAFTSMAN DATE CDD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE												
APPROV. DATE APPR PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. AUTO INSERT TAPE FOR 2261955-0002												
										PART NUMBER LM 2261955-5002		REV J

TEXAS INSTRUMENTS INCORPORATED		DATE 03/13/80		LIST OF MATERIAL		PAGE 4 of		PART NUMBER LM 2261955-5002		REV J		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEASURE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0036	00003.000	EA		0219402-7408	NETWORK SM74508N	TI- -SM74508N						
0036A					UQ22 UHH15 UN22							
0037	00002.000	EA		0219402-7411	NETWORK SM74511N							
0037A					UAA22 UD28							
0038	00002.000	EA		0219402-7432	NETWORK SM74532N	TI- -SM74532N						
0038A					UAA28 UBT25							
0039	00002.000	EA		0219402-7474	NETWORK SM74574N							
0039A					UC28 UL25							
0040	00002.000	EA		0972655-0001	NETWORK, SM745132N							
0040A					UC15 UMN15							
0041	00001.000	EA		0072751-0001	NETWORK, SM74586N							
0041A					UQQ4							
0042	00001.000	EA		022222-7417	NETWORK-SM7417N							
0042A					UD20							
0043	00001.000	EA		0219402-7112	NETWORK SM745112N	TI -SM745112N						
0043A					UR22							
0045	00003.000	EA		0972856-0001	NETWORK, SM74376N							
0045A					UF33 UJJ20 UJJ22							
0046	00003.000	EA		0219401-1107	NETWORK, SM75107N INTERFACE MIC							
0046A					UUU7 UUU22 UYY38							
DRAFTSMAN				DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	AUTO INSERT TAPE FOR 2261955-0002		
APPRO. ENG.				DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 2261955-5002		

TEXAS INSTRUMENTS INCORPORATED		DATE 03/13/80		LIST OF MATERIAL		PAGE 5 of		PART NUMBER LM 2261955-5002		REV J		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEASURE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0047	00003.000	EA		0994384-0001	IC, SM75112N DUAL LINE DRIVER							
0047A					UUW10 UUU25 UY38							
0048	00002.000	EA		0974674-0001	NETWORK SM75138N							
0048A					UAA25 UAA33							
0049	00008.000	EA		0972450-0002	NETWORK, SM75189AN/MC1489AL QUAD LINE RCN SEE - II DRAWING							
0049A					UYX4 UYX7 UYX10 UYX15 UYX22							
0049B					UYX25 UYX28 UYX33							
0060	00003.000	EA		0974849-0001	NETWORK, DM8136							
0060A					UA4 UA7 UA10							
0061	00018.000	EA		0996668-0001	IC, LINE DRIVER 9436TC	007243-9436TC						
0061A					UY4 UY5 UY7 UY8 UY10 UY12							
0061B					UY15 UY16 UY20 UY21 UY22							
0061C					UY23 UY25 UY26 UY28 UY29							
0061D					UY33 UY34							
0063	00002.000	EA		0972141-0041	NETWORK, RES. 1.0 K OHM 2 X 14 PIN DIP	BEC - 899-1-R1-0K						
0063A					UCC4 UQQ15							
0064	00001.000	EA		0996666-0001	IC, TL3524 CONTROLLER SWITCHING & RGLTR	001295-TL3524						
0064A					UQQ34							
0073	00001.000	EA		0538292-0010	COILS, RF, MFD FXD, L710K070	015305-MS75084-10						
0073A					L1							
DRAFTSMAN				DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	AUTO INSERT TAPE FOR 2261955-0002		
APPRO. ENG.				DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 2261955-5002		

TEXAS INSTRUMENTS INCORPORATED		DATE 03/13/80		LIST OF MATERIAL		PAGE 6 of		PART NUMBER LM 2261955-5002		REV J		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEASURE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0079	00002.000	EA		0972932-0001	DIODE 1N9148	SEE TI- DRAWING						
0079A					CA2 CA3							
0081	00001.000	EA		0972977-0081	RES, 560OHMS, .5W 5% CMPSN, INSULATED, FIXED	-RCR206541JS						
0081A					R22							
0082	00005.000	EA		0972946-0021	RES FIX 15.0 OHM 5 X .25 W CARBON FILM	RDH - R-25						
0082A					R7 R8 R9 R10 R11							
0083	00001.000	EA		0972946-0041	RES FIX 100 OHM 5 X .25 W CARBON FILM	RDH - R-25						
0083A					R17							
0084	00004.000	EA		0972946-0049	RES FIX 220 OHM 5 X .25 W CARBON FILM	RDH - R-25						
0084A					R24 R47 R67 R68							
0085	00002.000	EA		0972946-0053	RES FIX 330 OHM 5 X .25 W CARBON FILM	RDH - R-25						
0085A					R2 R5							
0086	00001.000	EA		0972946-0045	RES FIX 150 OHM 5 X .25 W CARBON FILM	RDH - R-25						
0086A					R66							
0087	00002.000	EA		0972946-0058	RES FIX 560 OHM 5 X .25 W CARBON FILM	RDH - R-25						
0087A					R20 R21							
0088	00003.000	EA		0972946-0061	RES FIX 680 OHM 5 X .25 W CARBON FILM	RDH - R-25						
0088A					R3 R13 R14							
0089	00004.000	EA		0972946-0065	RES FIX 1.0K OHM 5% .25 W CARBON FILM	RDH - R-25						
0089A					R12 R15 R16 R18							
DRAFTSMAN				DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	AUTO INSERT TAPE FOR 2261955-0002		
APPRO. ENG.				DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 2261955-5002		

TEXAS INSTRUMENTS INCORPORATED		DATE 03/13/80		LIST OF MATERIAL		PAGE 7 of		PART NUMBER LM 2261955-5002		REV J		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEASURE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0090	00002.000	EA		0972946-0075	RES FIX 2.7K OHM 5 X .25 W CARBON FILM	RDH - R-25						
0090A					R4 R19							
0091	00005.000	EA		0972946-0081	RES FIX 4.7K OHM 5 X .25 W CARBON FILM	RDH - R-25						
0091A					R4 R26 R36 R46 R56							
0092	00008.000	EA		0972946-0092	RES FIX 13 K OHM 5 X .25 W CARBON FILM	RDH - R-25						
0092A					R33 R35 R43 R45 R53 R55 R63							
0092B					R65							
0093	00001.000	EA		0972946-0089	RES FIX 10K OHM 5% .25 W CARBON FILM	RDH - R-25						
0093A					R1							
0094	00018.000	EA		0972946-0105	RES FIX 47 K OHM 5 X .25 W CARBON FILM	RDH - R-25						
0094A					R20 R29 R30 R31 R33 R38 R39							
0094B					R40 R41 R48 R48 R50 R51 R57							
0094C					R38 R50 R60 R61							
0100	00025.000	EA		0972757-0017	CAP FIX CER 2200 10% 50V	007115-CAC02X7R222K10						
0100A					C49 C75 C76 C77 C78 C79 C80							
0100B					C84 C85 C86 C87 C88 C89 C92							
0100C					C93 C94 C95 C96 C97 C900							
0100D					C101 C102 C103 C104 C105							
0101	00011.000	EA		0972757-0023	CAP FIX CER .01MFD 10% 50V							
0101A					C8 C33 C36 C48 C82 C90 C91							
DRAFTSMAN				DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	AUTO INSERT TAPE FOR 2261955-0002		
APPRO. ENG.				DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 2261955-5002		

Four Channel Communications Controller Assembly

TEXAS INSTRUMENTS INCORPORATED		DATE 03/13/80		LIST OF MATERIAL		PAGE 8 of		PART NUMBER LM 2261955-5002		REV J		
ITEM NUMBER	QUANTITY REQUIRED	UNIT OF MEAS	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0101B					C88 C99 C100 C107							
0102	00045.000	EA		0972763-0021	CAP.,FIXED,AXIAL LEAD,.047 UF,+80%, -20%							
0102A					C1 C2 C3 C4 C10 C11 C12 C13							
0102B					C14 C15 C16 C17 C18 C19 C20							
0102C					C22 C24 C26 C31 C39 C45 C46							
0102D					C47 C48 C49 C50 C55 C57 C58							
0102E					C59 C60 C64 C65 C66 C67 C74							
0102F					C83 C100 C109 C112 C113							
0102G					C114 C115 C116 C117							
0103	00005.000	EA		0972924-0013	CAP FLX TANT SOLID 2-2 MFD 10 X 20 VOLT OPL	-M39003/1-2203						
0103A					C63 C70 C71 C72 C73							
0104	00001.000	EA		0972924-0010	CAP FIX TANT SOLID 22 MFD 10 X 15 VOLT OPL	-M39003/1-2271						
0104A					C40							
0115	00010.000	EA		0972763-0025	CAPACITOR,.10UF 50V FX,CERAMIC DIEI	COR CA-C0325U1042050A						
0115A					C27 C29 C32 C35 C37 C41 C43							
0115B					C51 C53 C54							
0116	00011.000	EA		0972763-0032	CAP FIXED .39 UF 50 VOLTS	UC -C53C394Z						
0116A					C28 C30 C36 C38 C42 C44 C52							
0116B					C54 C61 C110 C111							
0120	00001.000	EA		2261964-0001	PCCC BRON 3							
DRAFTSMAN		DATE	CED	DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	AUTO INSERT TARE FOR 2261955-0002			
APPD. JWC.		DATE	APPD.	PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	LM 2261955-5002 J			

TEXAS INSTRUMENTS INCORPORATED		DATE 03/13/80		LIST OF MATERIAL		PAGE 9 of		PART NUMBER LM 2261955-5002		REV J		
ITEM NUMBER	QUANTITY REQUIRED	UNIT OF MEAS	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0120A					UNN10							
0123	00001.000	EA		0418766-0230	RES.,FXD.,CPSM.,STYLE RCR20, 5.6 OHMS	Q39008-RGR20G5R0JS						
0123A					R23							
0129	00001.000	EA		0219402-7130	NETWORK 6N74S130N							
0129A					UR15							
0146	00002.000	EA		0972946-0060	RES FIX 1.5M OHM 5 X .25 X CARBON FILM	RDM - R-25						
0146A					R25 R49							
DRAFTSMAN		DATE	CED	DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	AUTO INSERT TARE FOR 2261955-0002			
APPD. JWC.		DATE	APPD.	PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	LM 2261955-5002 J			



- NOTES: UNLESS OTHERWISE SPECIFIED
1. ALL DEVICE TYPES PREFIXED WITH SN74
  2. GROUND IS APPLIED TO PIN 7 OF ALL 14-PIN IC'S, PIN 8 OF ALL 16-PIN IC'S, AND PIN 10 OF ALL 20-PIN IC'S.
  3. VCC IS APPLIED TO PIN 14 OF ALL 14-PIN IC'S, PIN 16 OF ALL 16-PIN IC'S, AND PIN 20 OF ALL 20-PIN IC'S.
  4. DEVICE TYPE, PIN NUMBERS, AND LOCATION OF IC IS SHOWN AS FOLLOWS:



LS00 AND LS04 = DEVICE TYPE  
 1, 2, AND 3 = PIN NUMBERS  
 NN20 AND KK10 = LOCATION; LETTER(S) DENOTES ROW AND NUMBERS DENOTE COLUMN; IC IS LOCATED AT INTERSECTION OF ROW AND COLUMN.

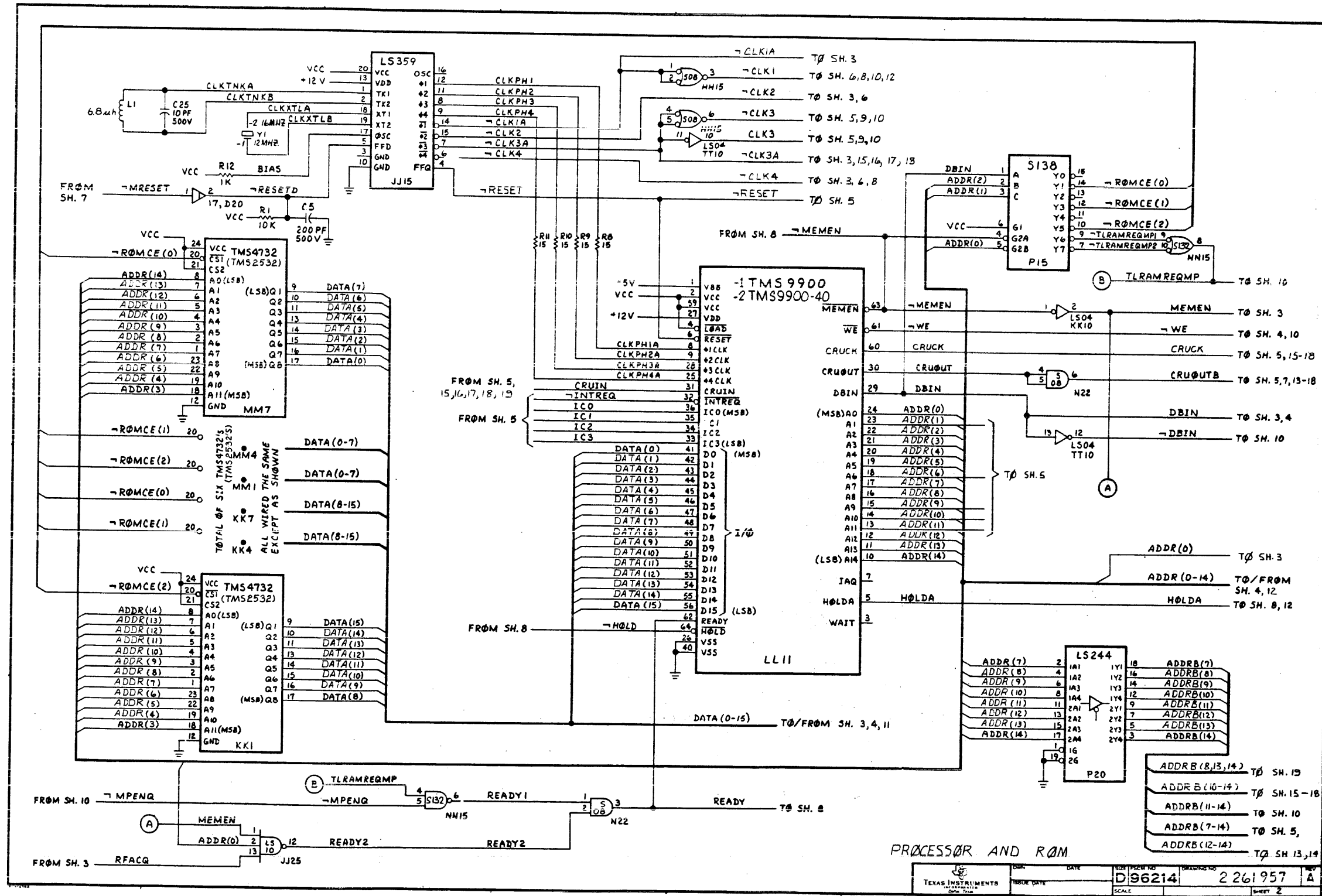
5. THE 4K RAM OPTION WAS DELETED FROM THE REVISION C PWB. ONE GATE OF THE SN74502 AT HH25 IS UNUSED AND THE FOLLOWING COMPONENTS WERE DELETED: JUMPER AT MM24, JUMPER AT MMM24, SN74LS2445 AT N38 AND NN38.
6. THE DELAY CIRCUIT OPTION WAS DELETED FROM THE REVISION C PWB. ONE GATE OF THE SN74LS02 AT NN22 IS UNUSED. ONE GATE OF THE SN74LS04 AT C22 IS UNUSED. THE SN74LS393 AT G22 IS DELETED. OUTPUT QO OF THE SN74LS42 AT E22 IS UNUSED. INPUT E3 OF THE SN74150 AT J8 WAS CHANGED TO VCC.

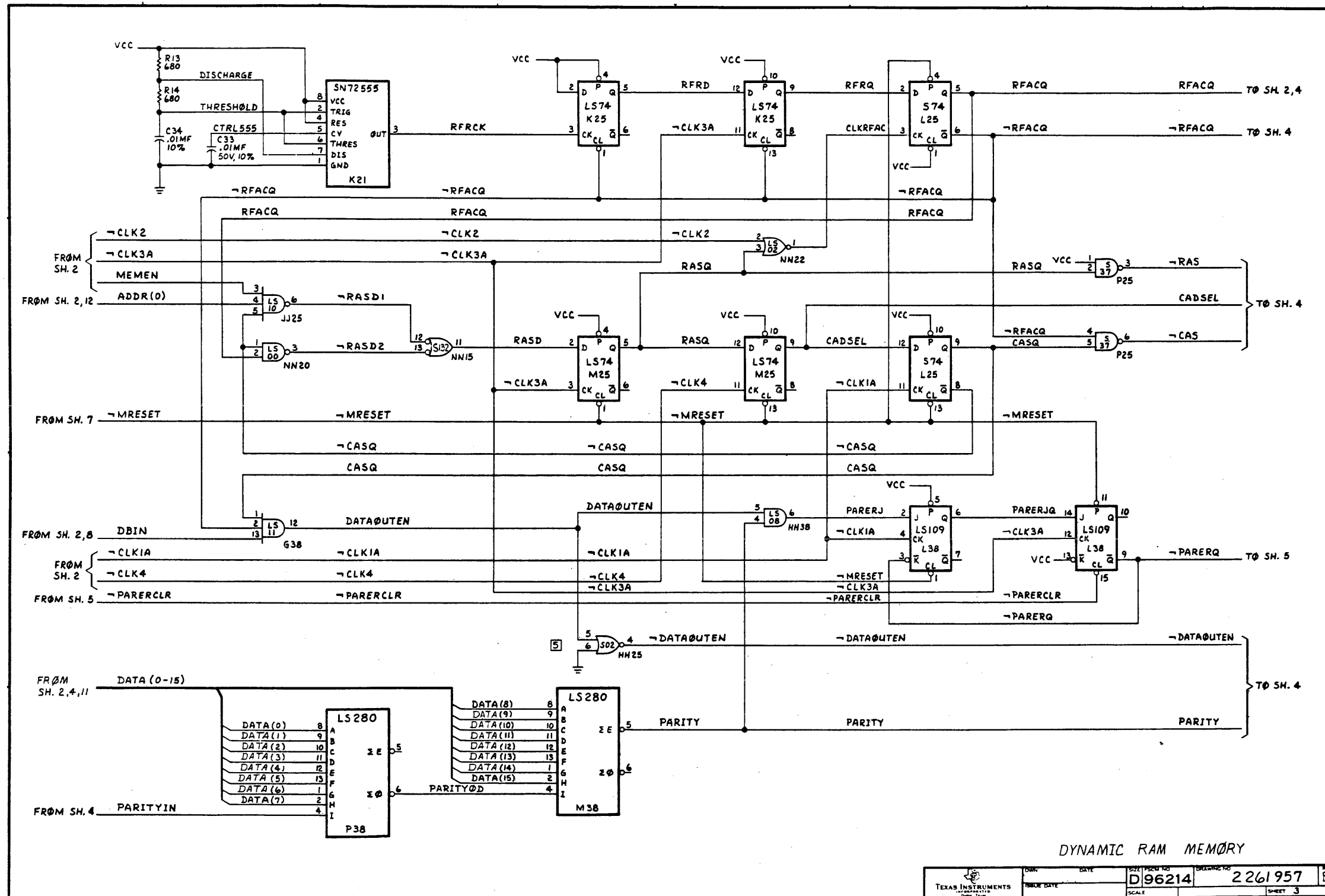
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	CN 448261 (E) L.T.H.E.	8-2-79	J. J. J.
B	CN 448270 (E) L.T.H.E.	11-29-79	J. J. J.

REV STATUS	REV	D	A	B	B	A	A	A	B	B	A	*B	B	D	D	B	B	A	B			
OF SHEETS	SH.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21

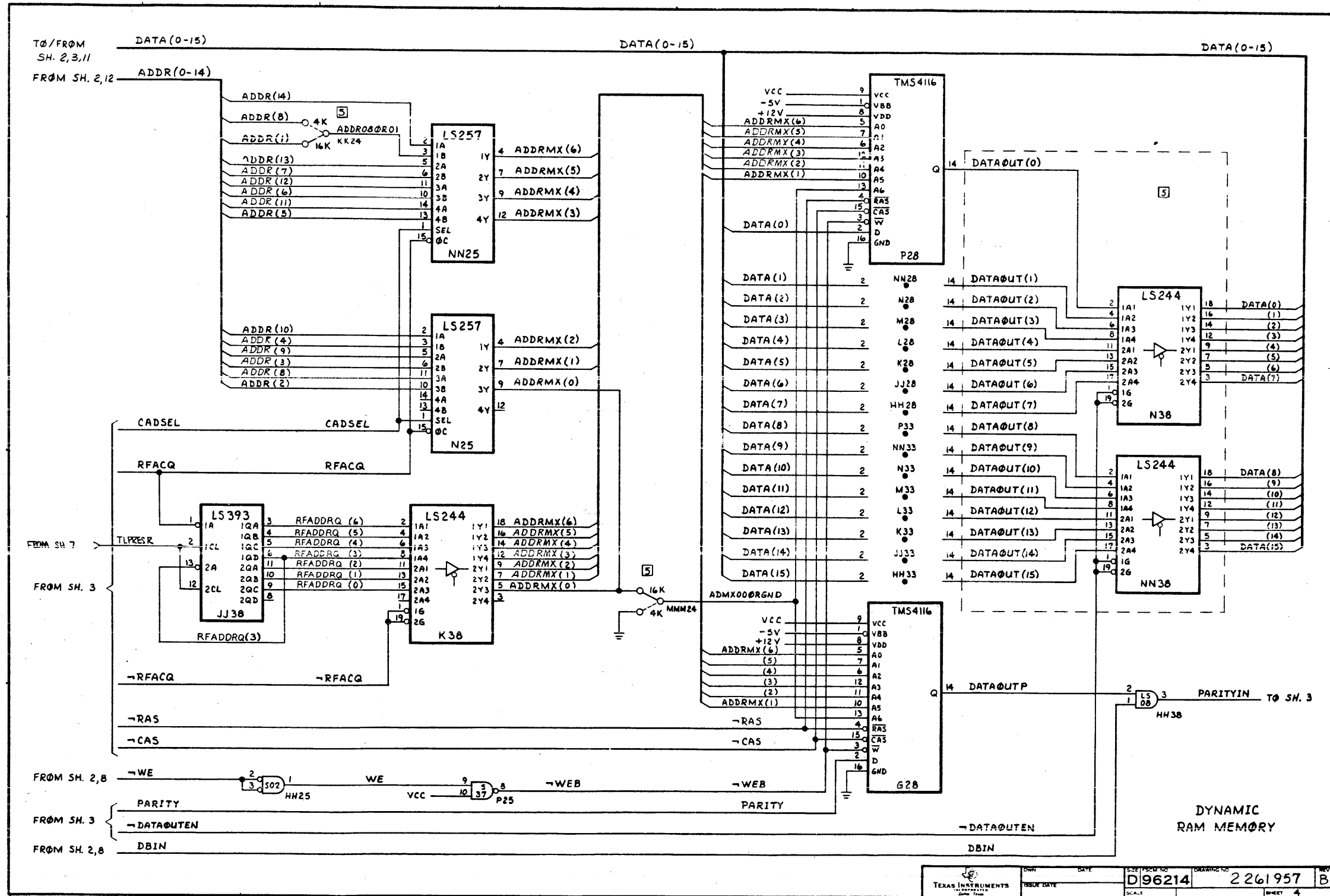
QTY	ITEM NO	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION	NOTES
PARTS LIST					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES - ANGLES ±1° 3 PLACE DECIMALS = .010 2 PLACE DECIMALS = .02 INTERPRET DRAWING PER MIL-D-1000 REMOVE ALL BURRS AND SHARP EDGES CONCENTRICITY MACHINED DIAMETERS .010 F/M DIMENSIONAL LIMITS APPLY BEFORE PROCESSING PARENTHESES INFO FOR REF ONLY					
HOLE TOLERANCE .013 THRU .004    .125 THRU .005    .251 THRU .008 .125 THRU .001    .250 THRU .001    .500 THRU .001 .801 THRU .008    .751 THRU .010    1.001 THRU .012 .750 THRU .001    1.000 THRU .001    2.000 THRU .001					
2261955	7055		LOGIC DIAGRAM, FOUR CHANNEL COMMUNICATIONS CONTROLLER (FCCC)		
NEXT ASSY USED ON APPLICATION			TEXAS INSTRUMENTS INCORPORATED Dallas, Texas DATE: 6-28-79 DRAWING NO: D96214 SHEET 1 OF 21		

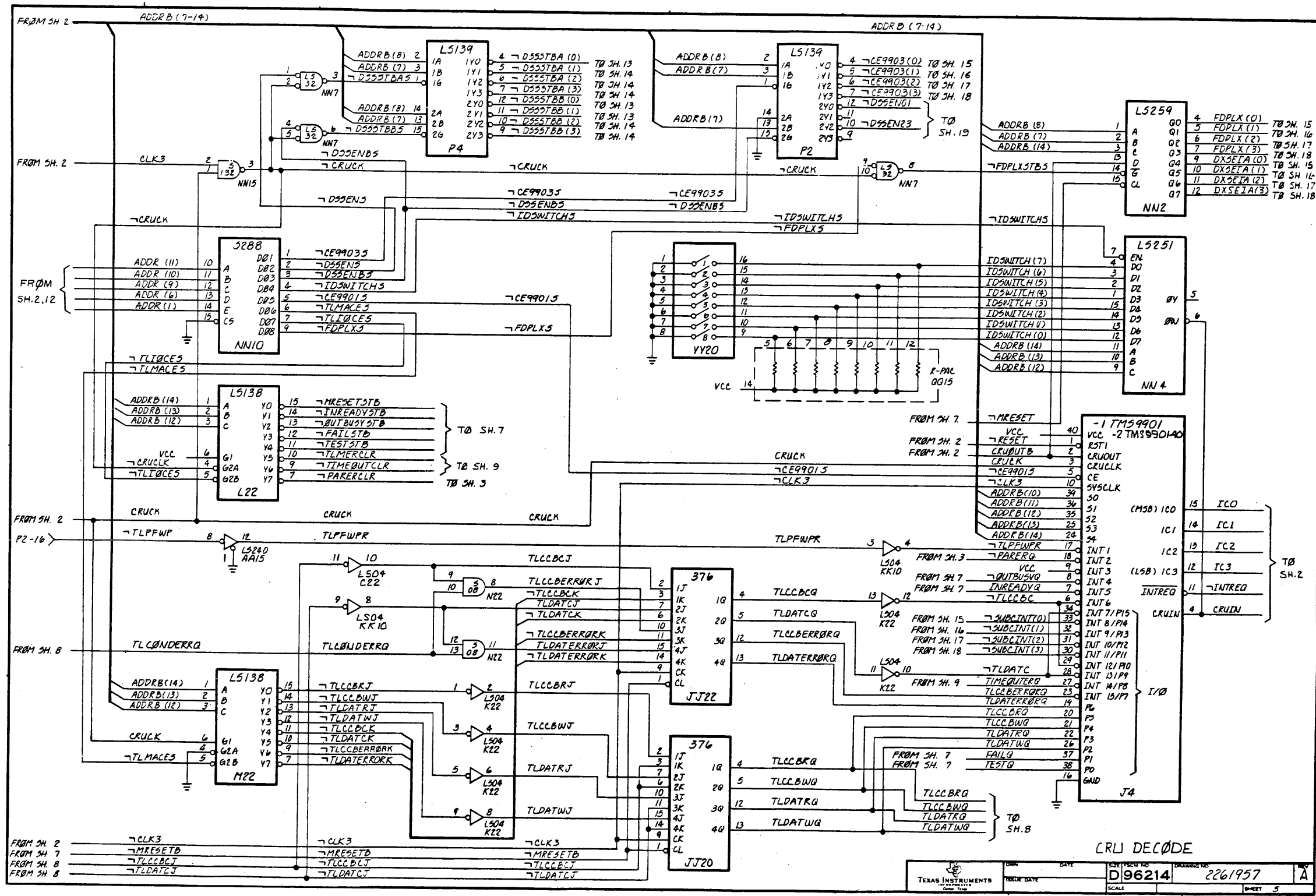
### Four Channel Communications Controller Logic Diagram

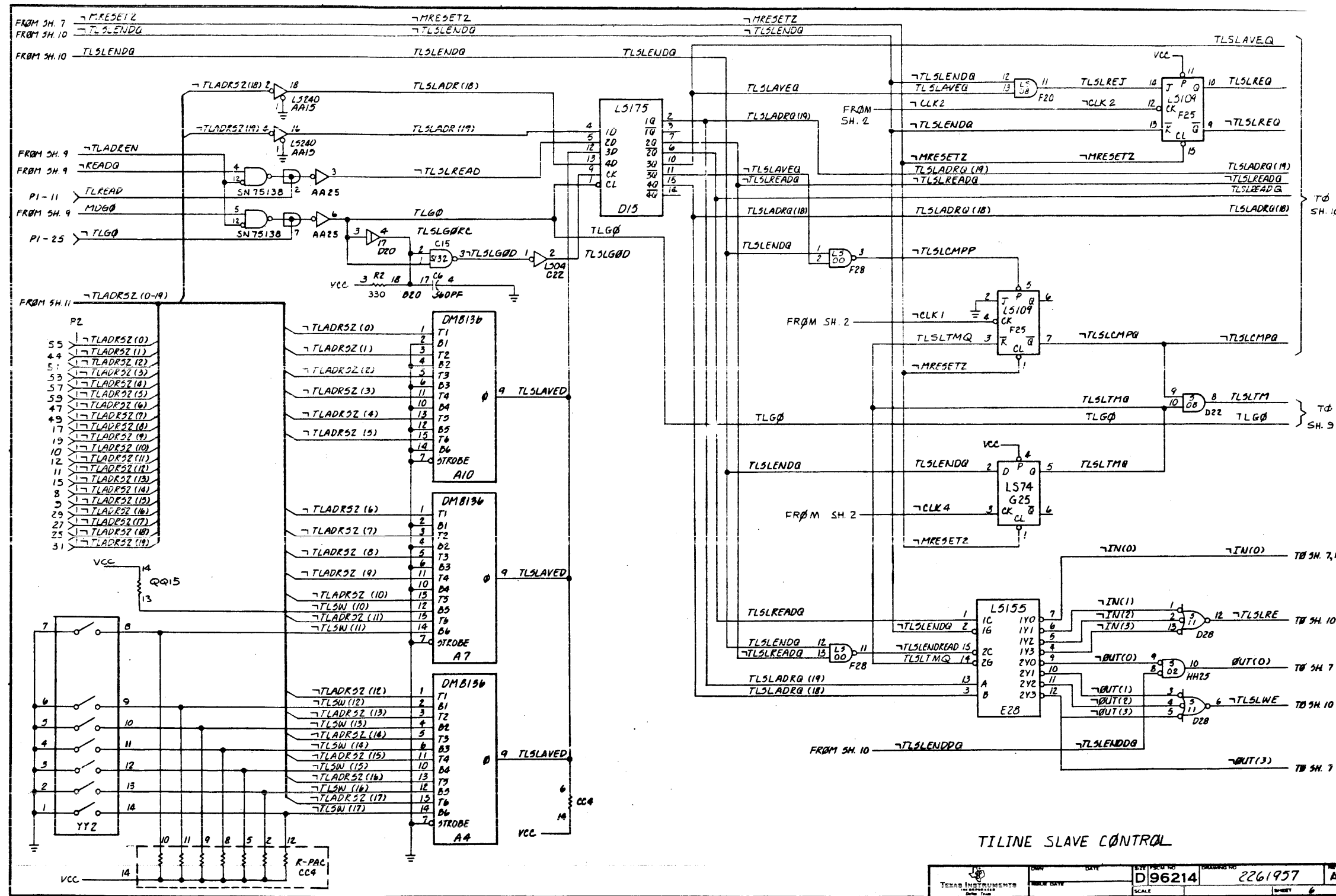


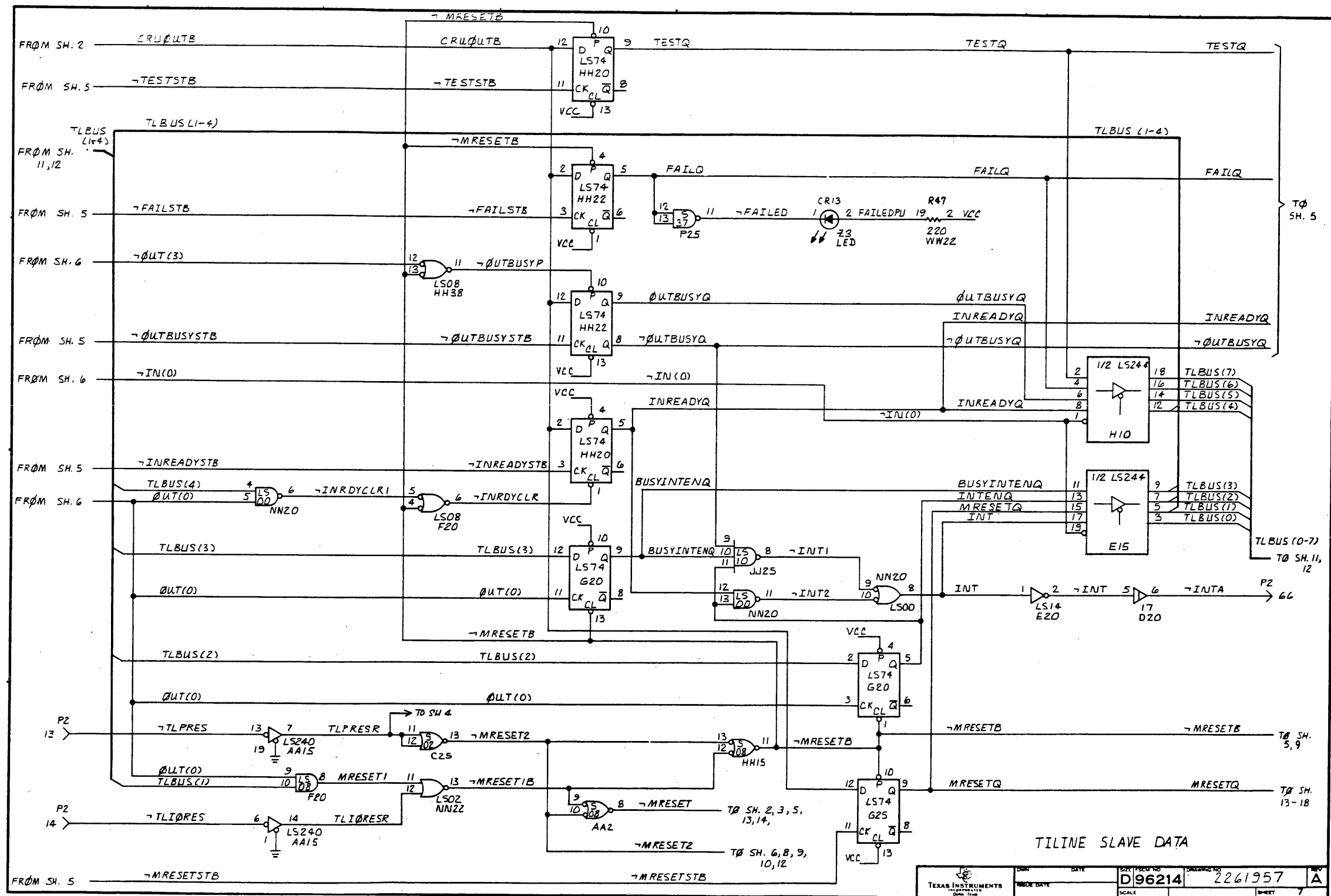


Four Channel Communications Controller Logic Diagram

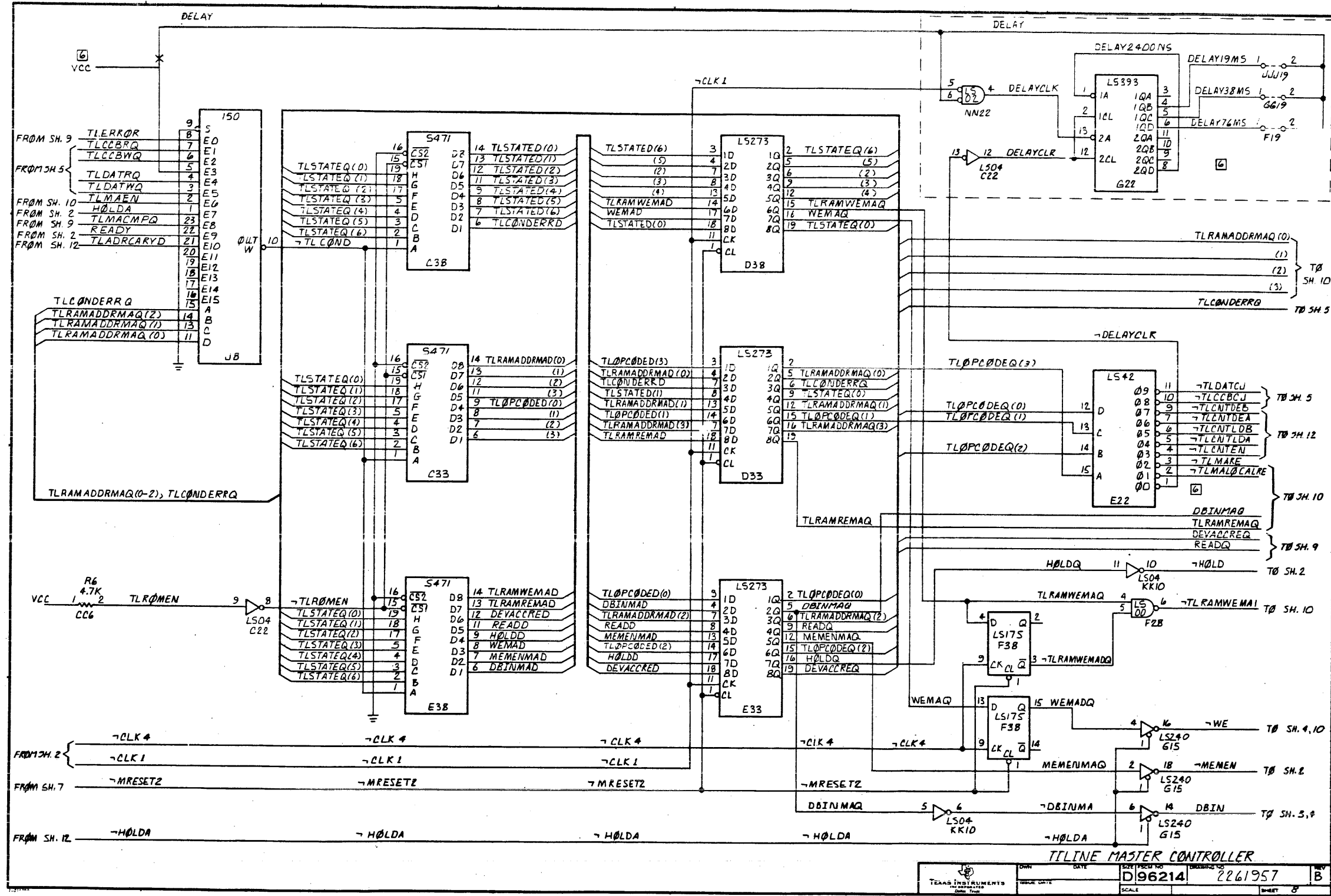




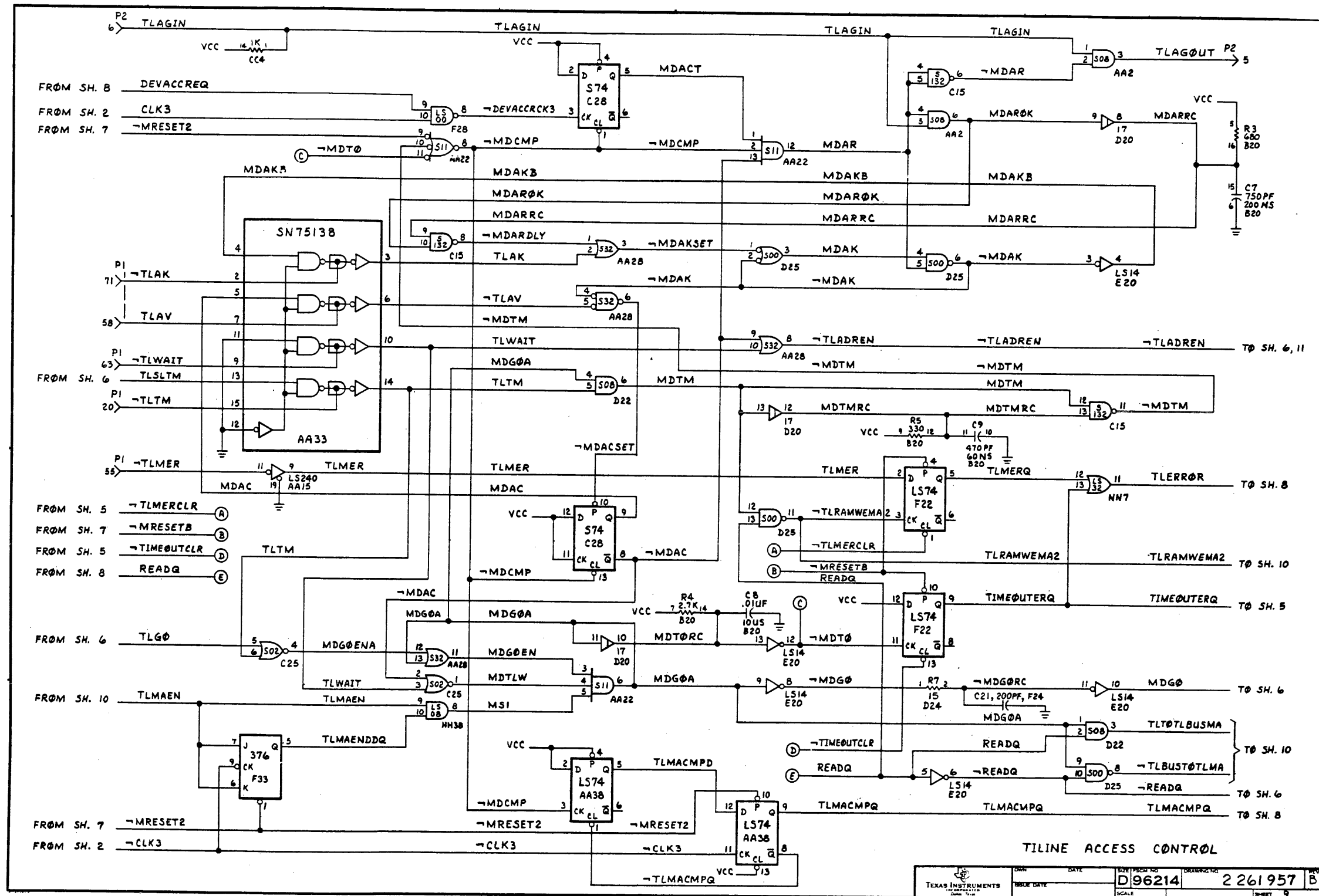




Four Channel Communications Controller Logic Diagram

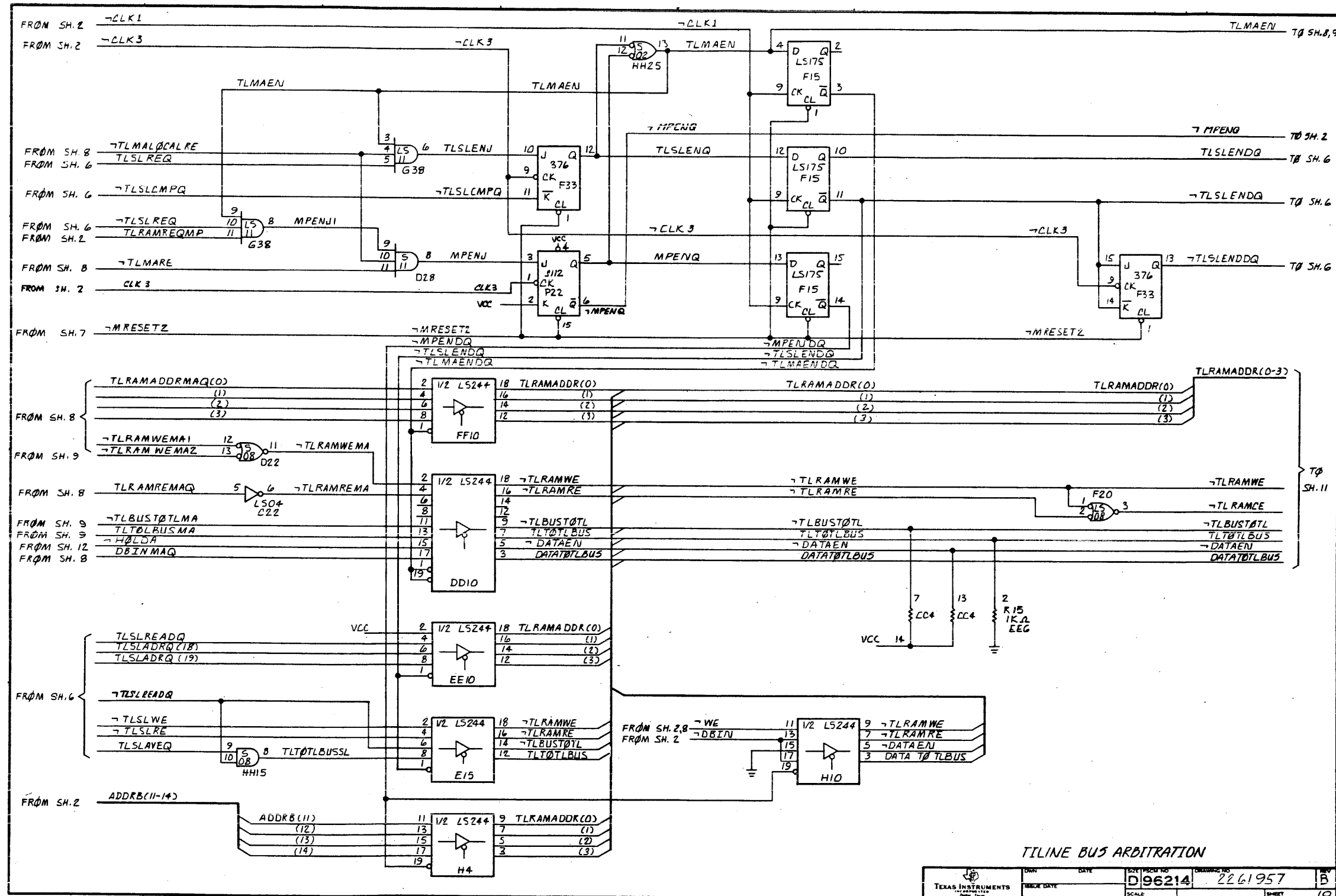


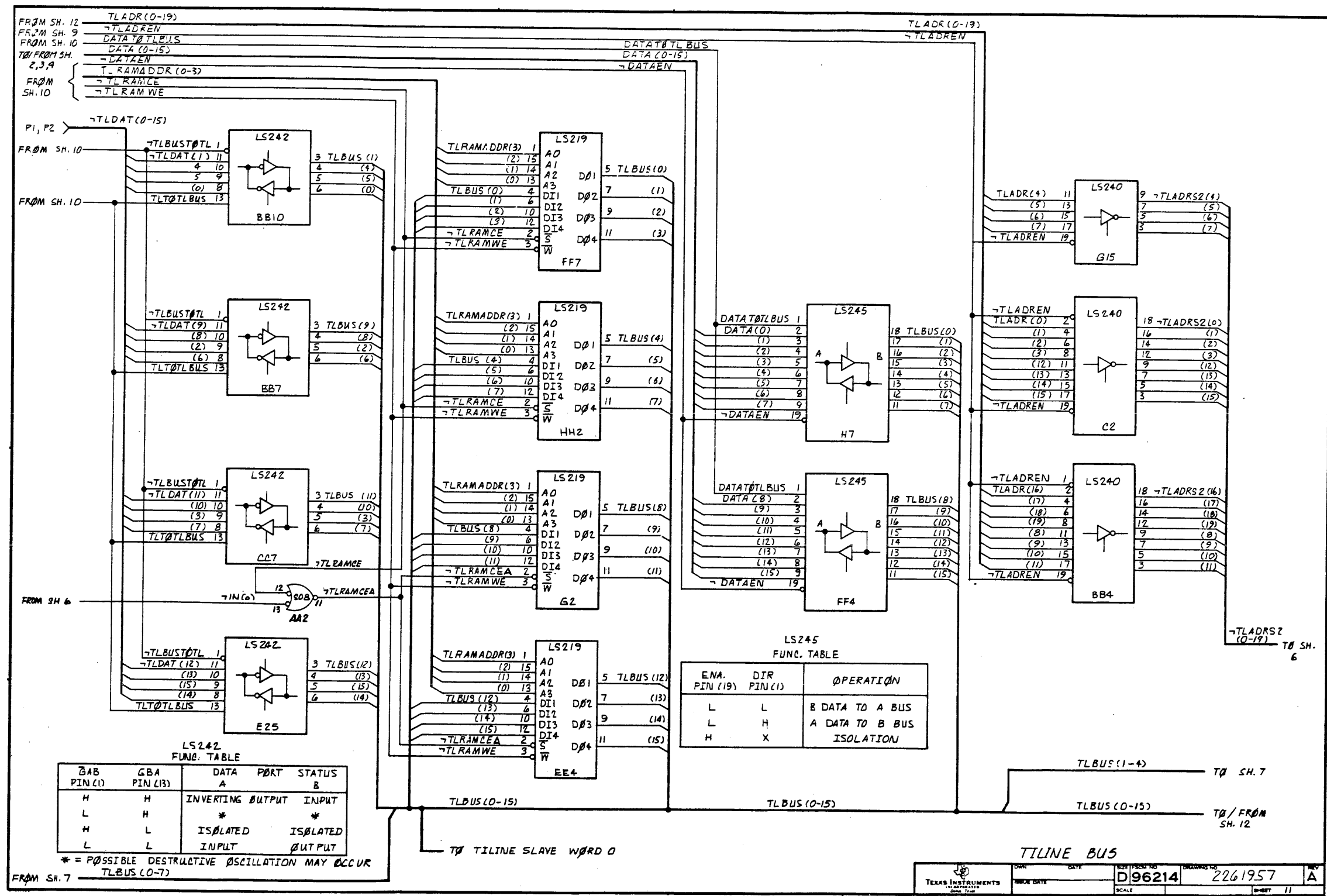




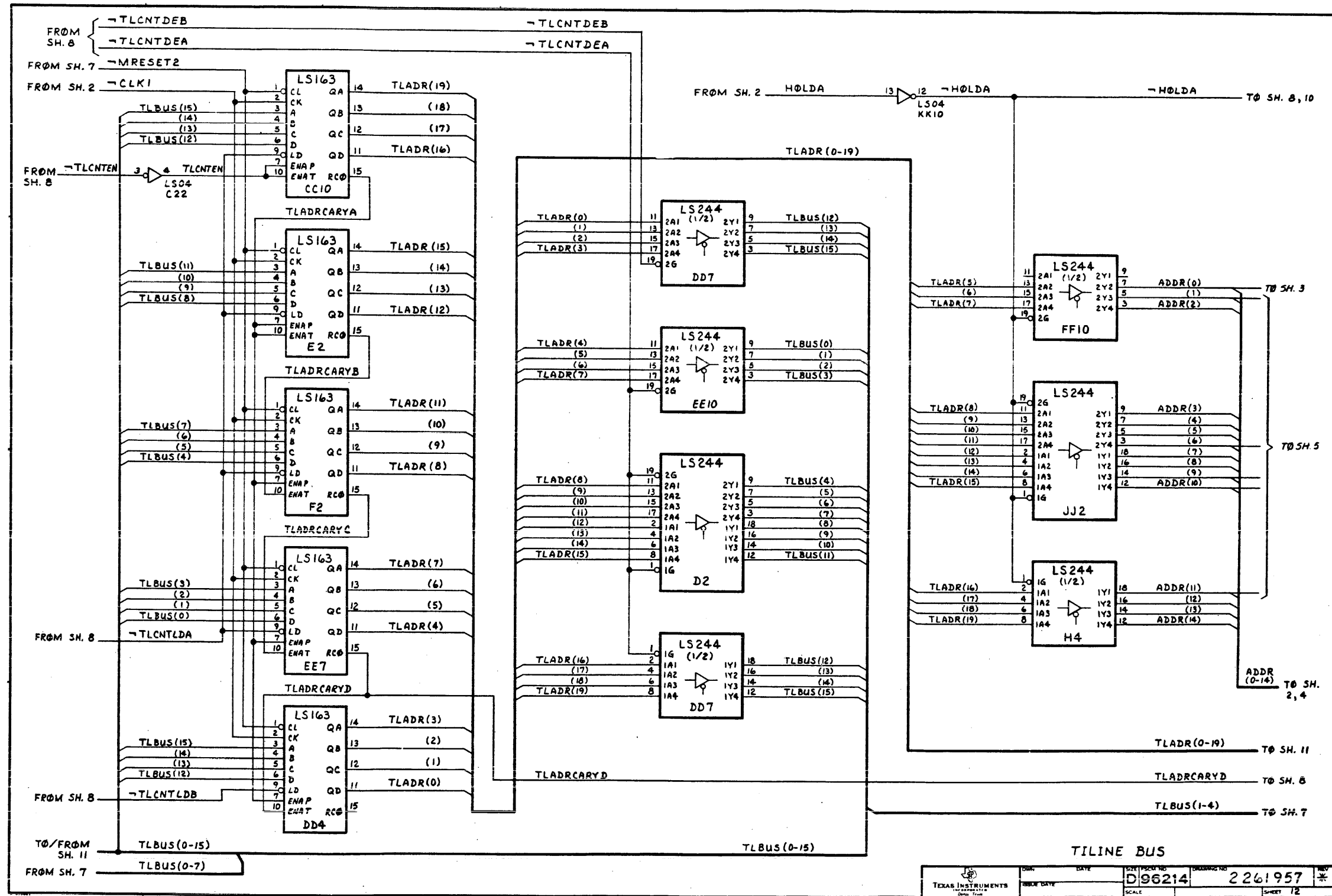
TEXAS INSTRUMENTS	DATE	DESIGN NO.	DRAWING NO.
	REV. DATE	D96214	2261957
	SCALE		SHEET 9

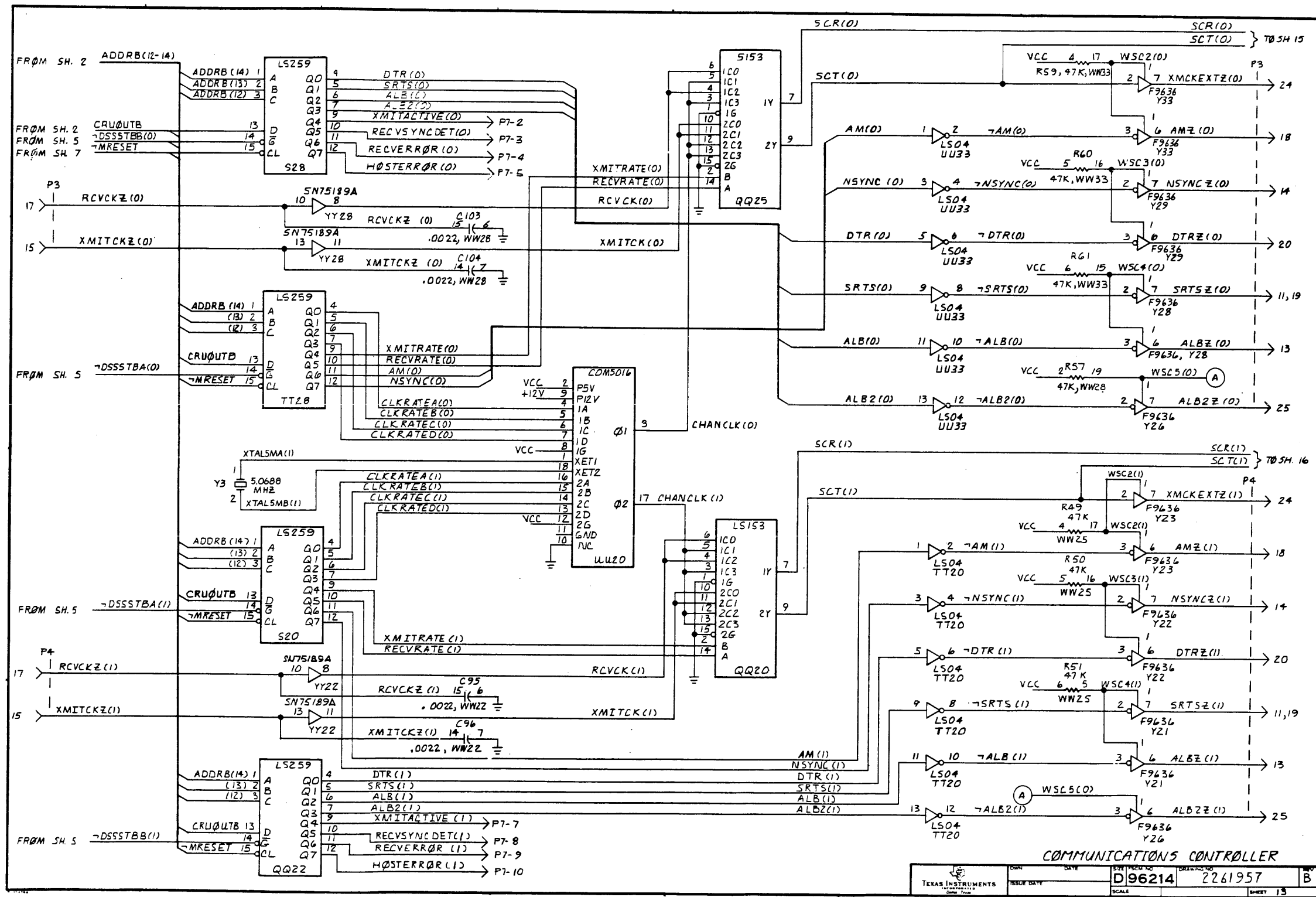
Four Channel Communications Controller Logic Diagram



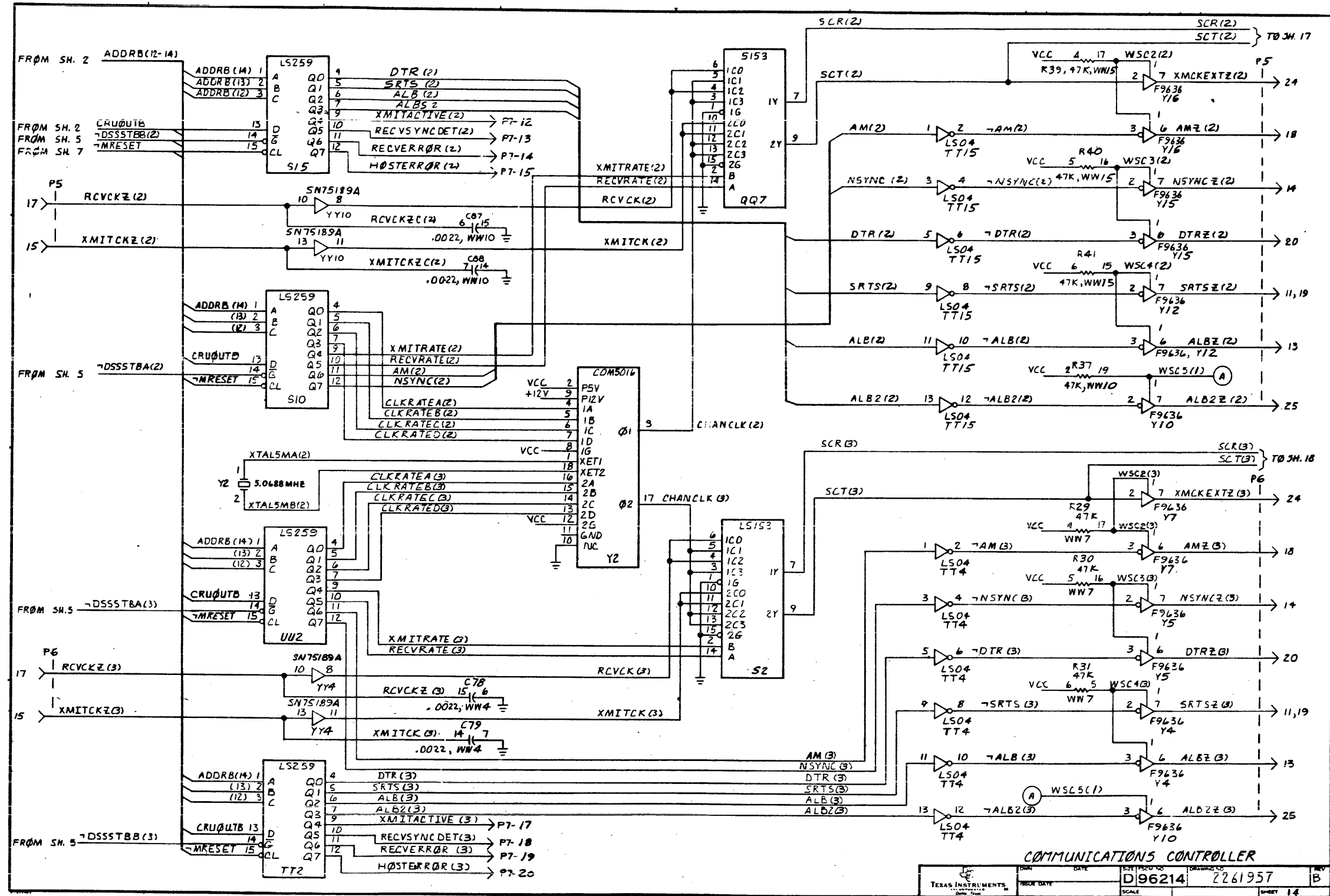


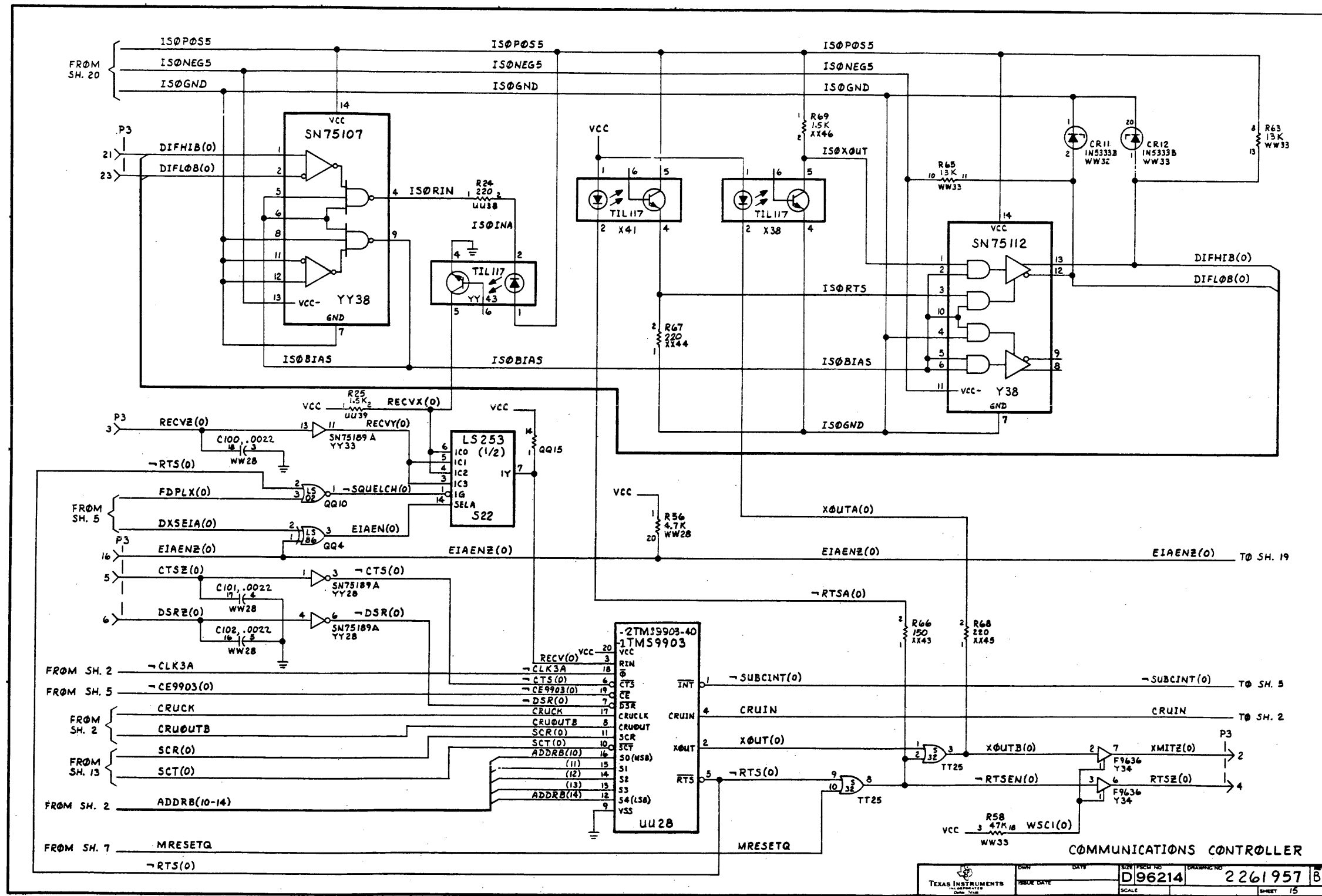
Four Channel Communications Controller Logic Diagram





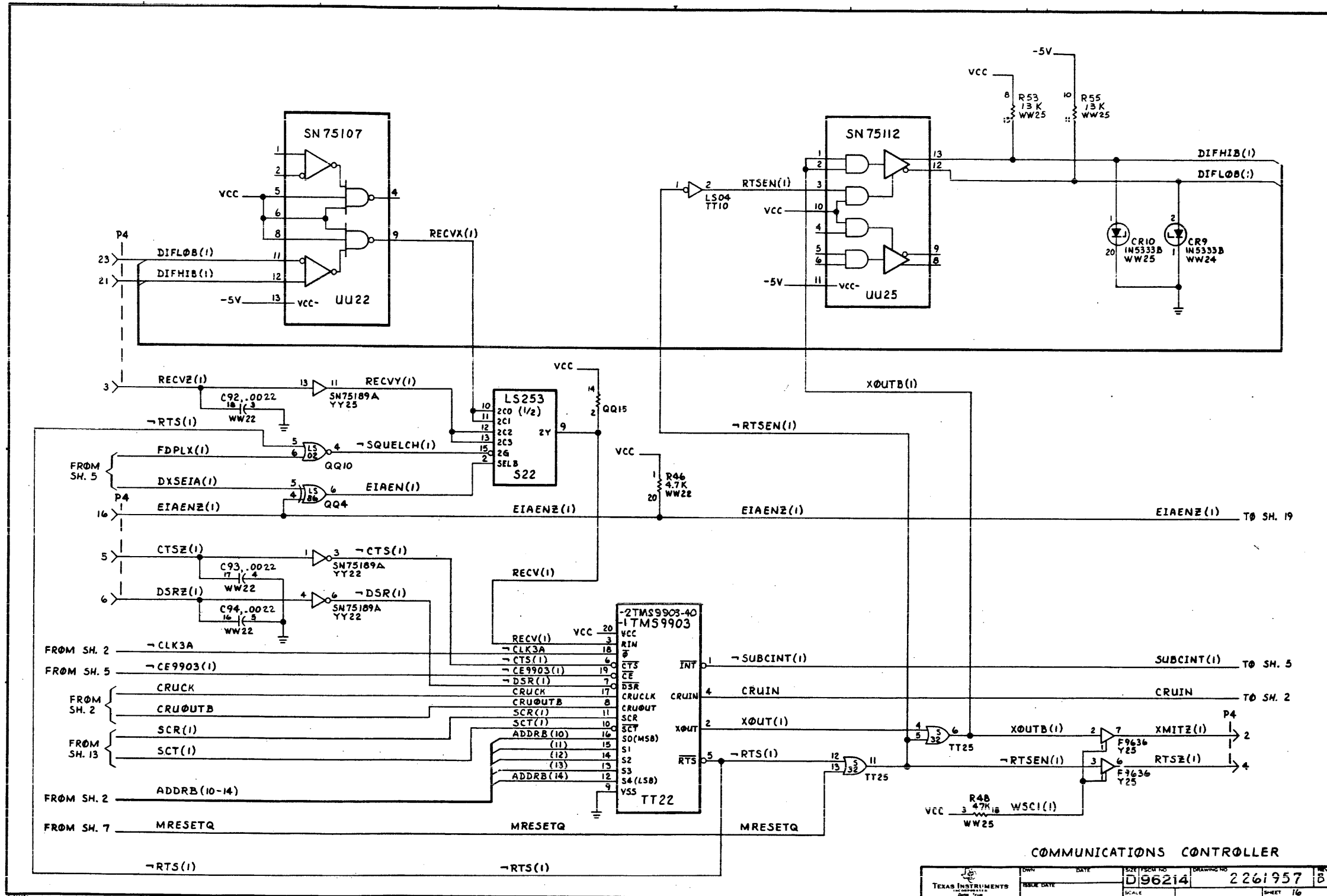
### Four Channel Communications Controller Logic Diagram



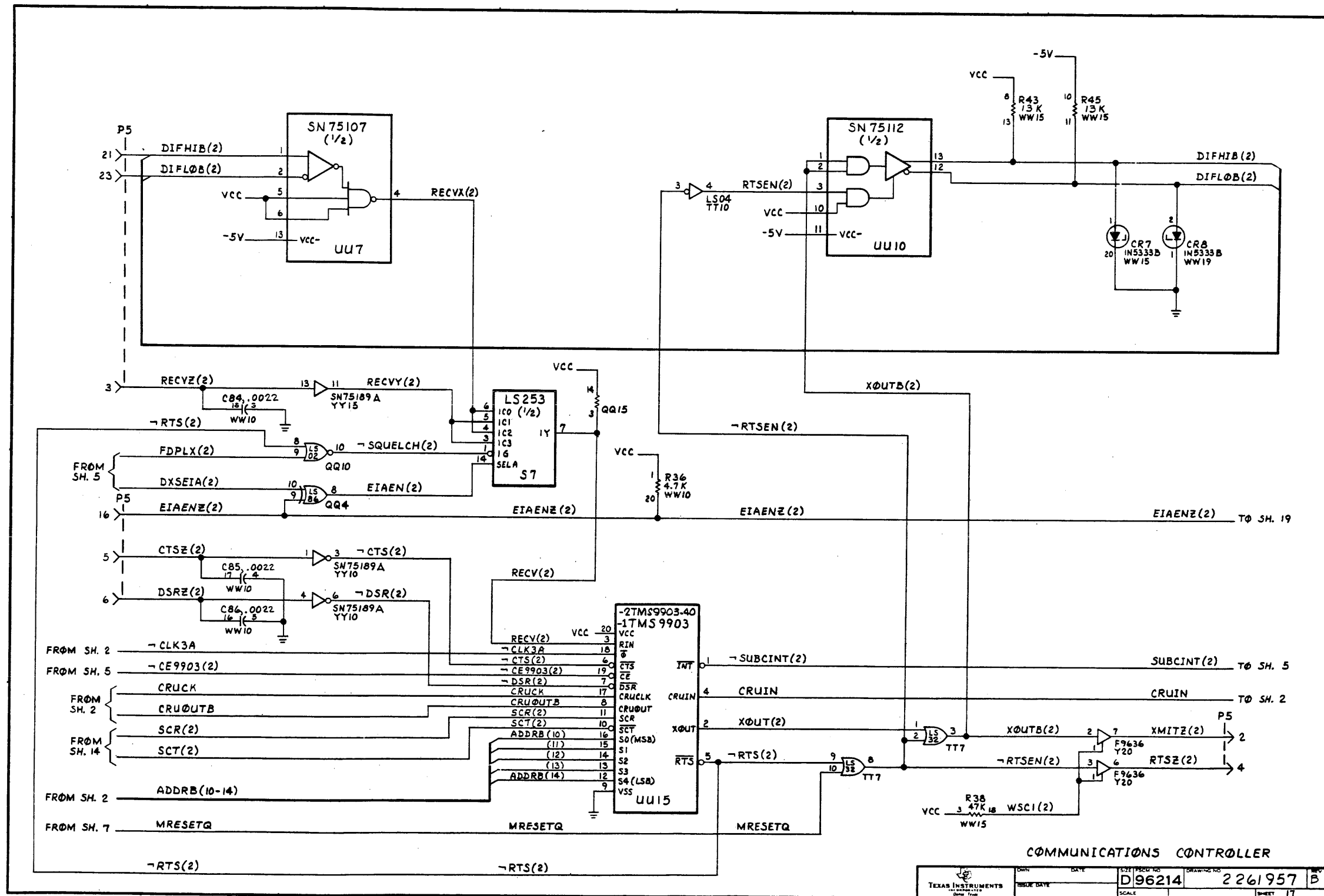


DATE	SCALE	DRAWING NO.	SHEET
		D96214	2261957 B
DESIGNED BY	CHECKED BY	DATE	SCALE

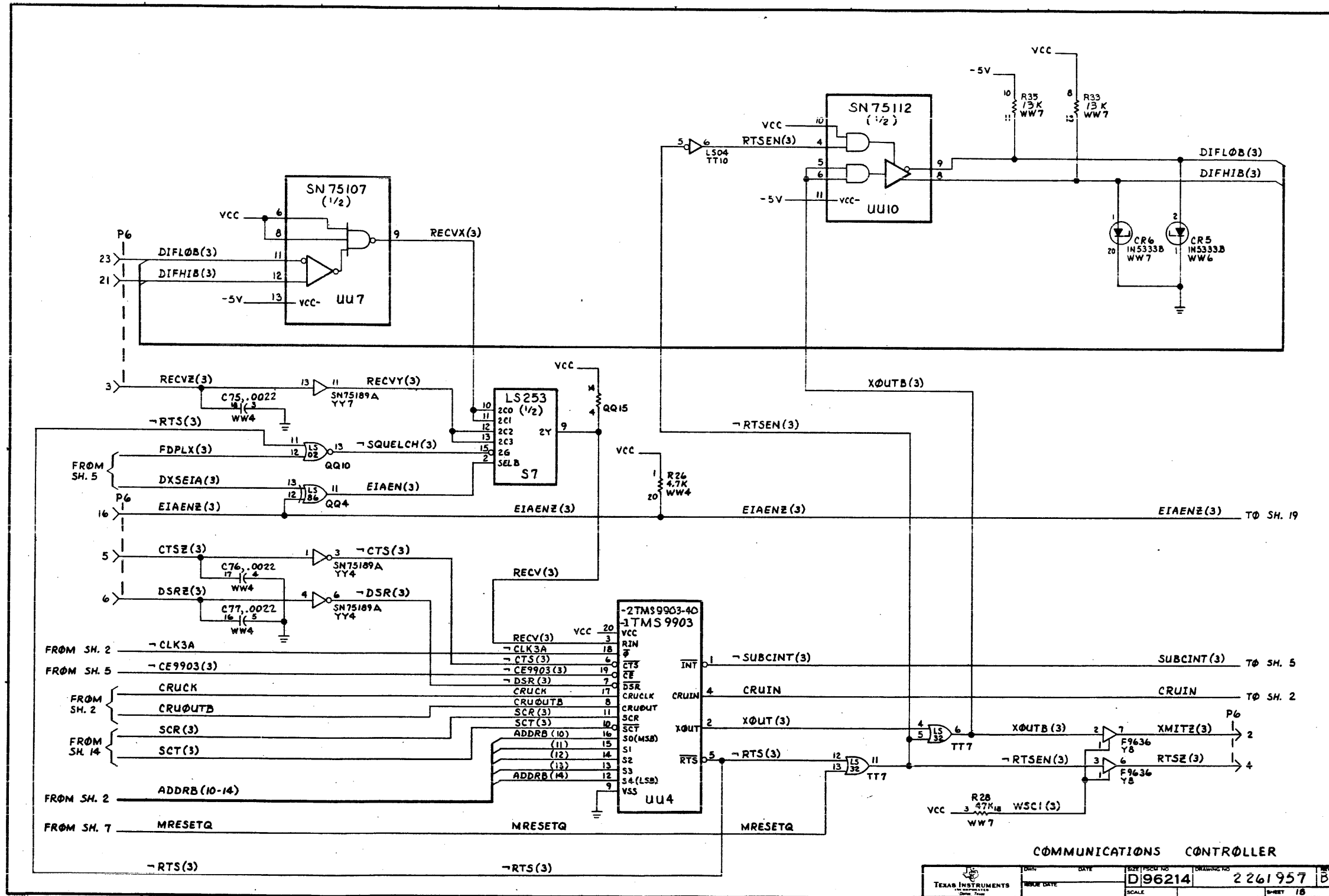
Four Channel Communications Controller Logic Diagram



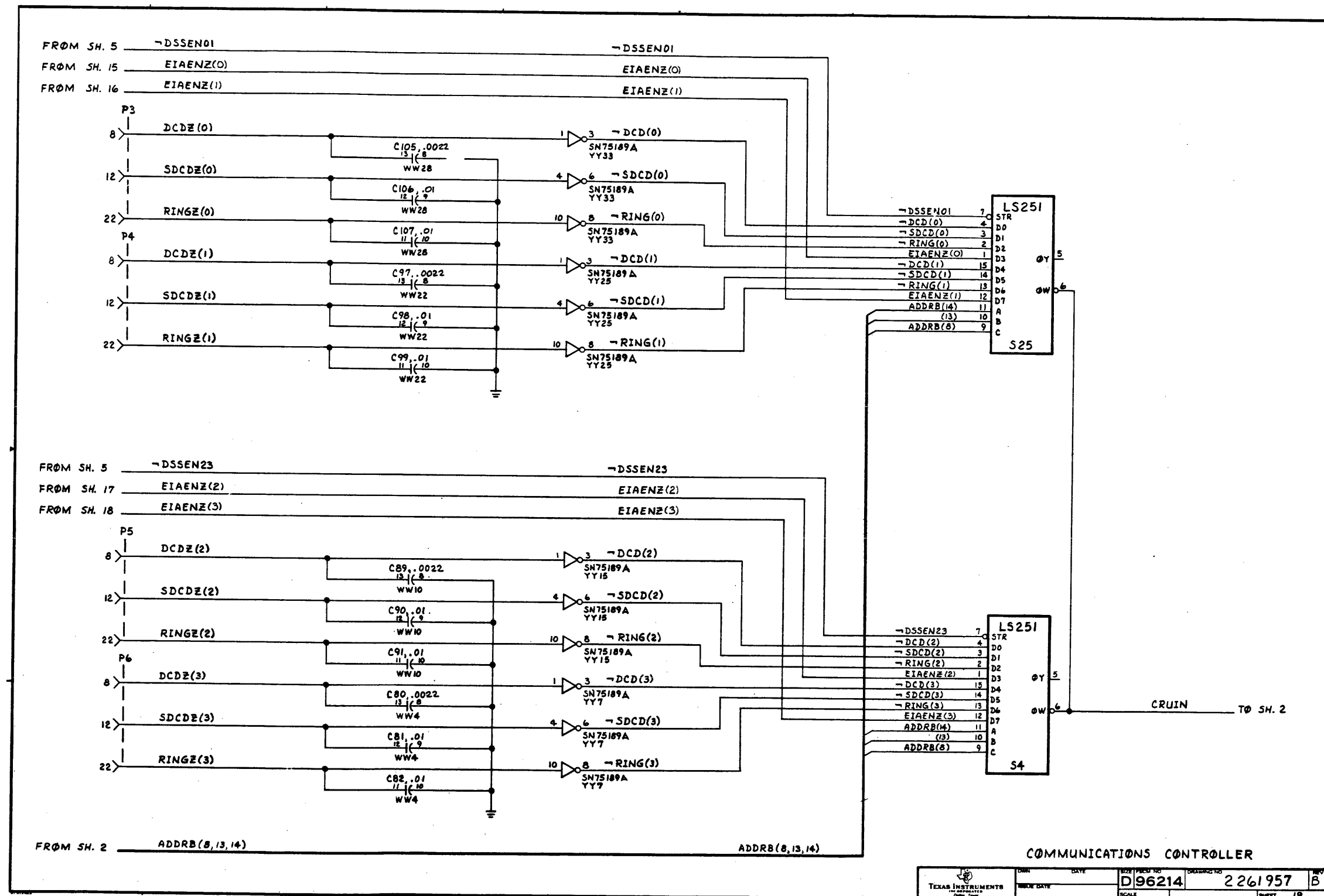


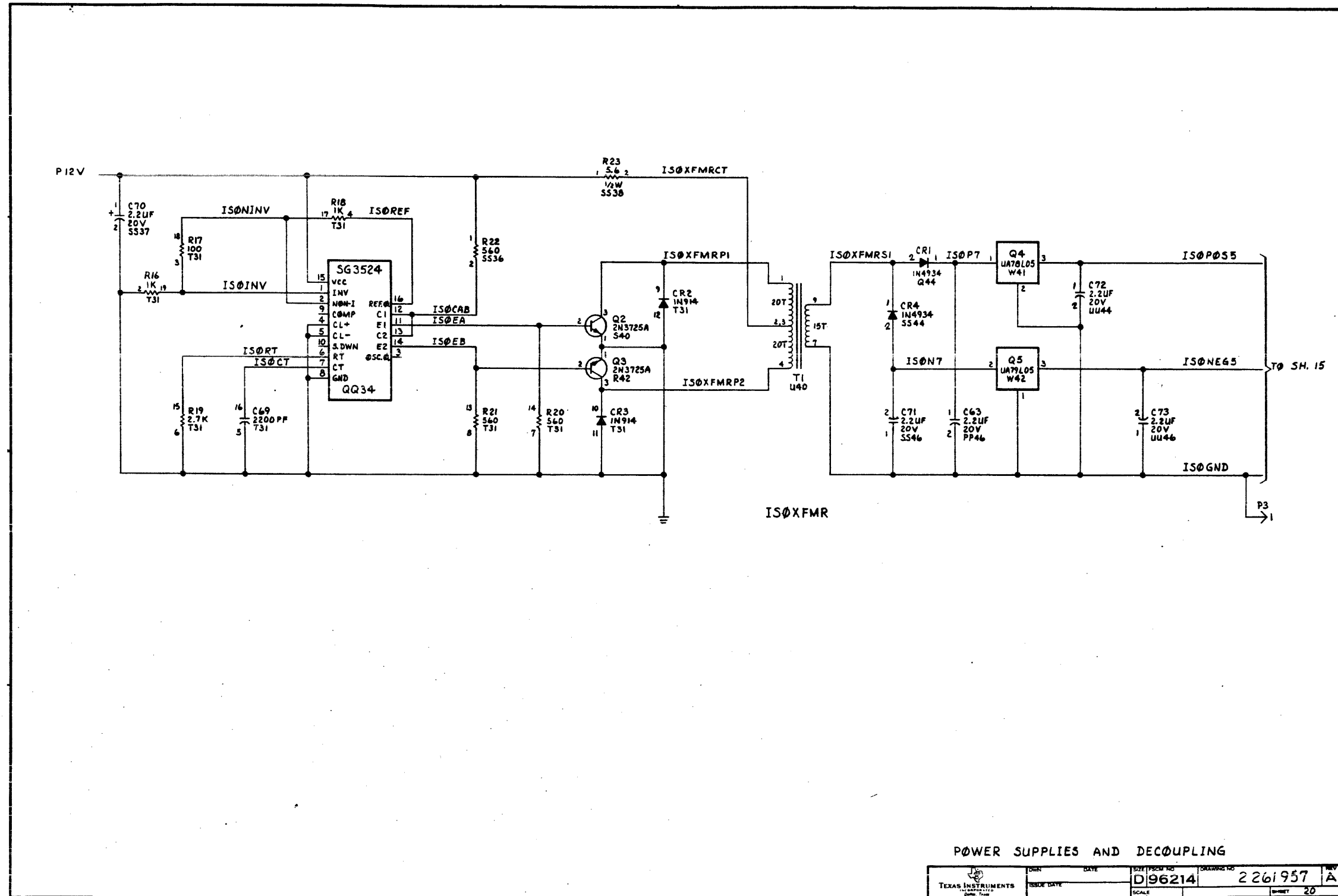


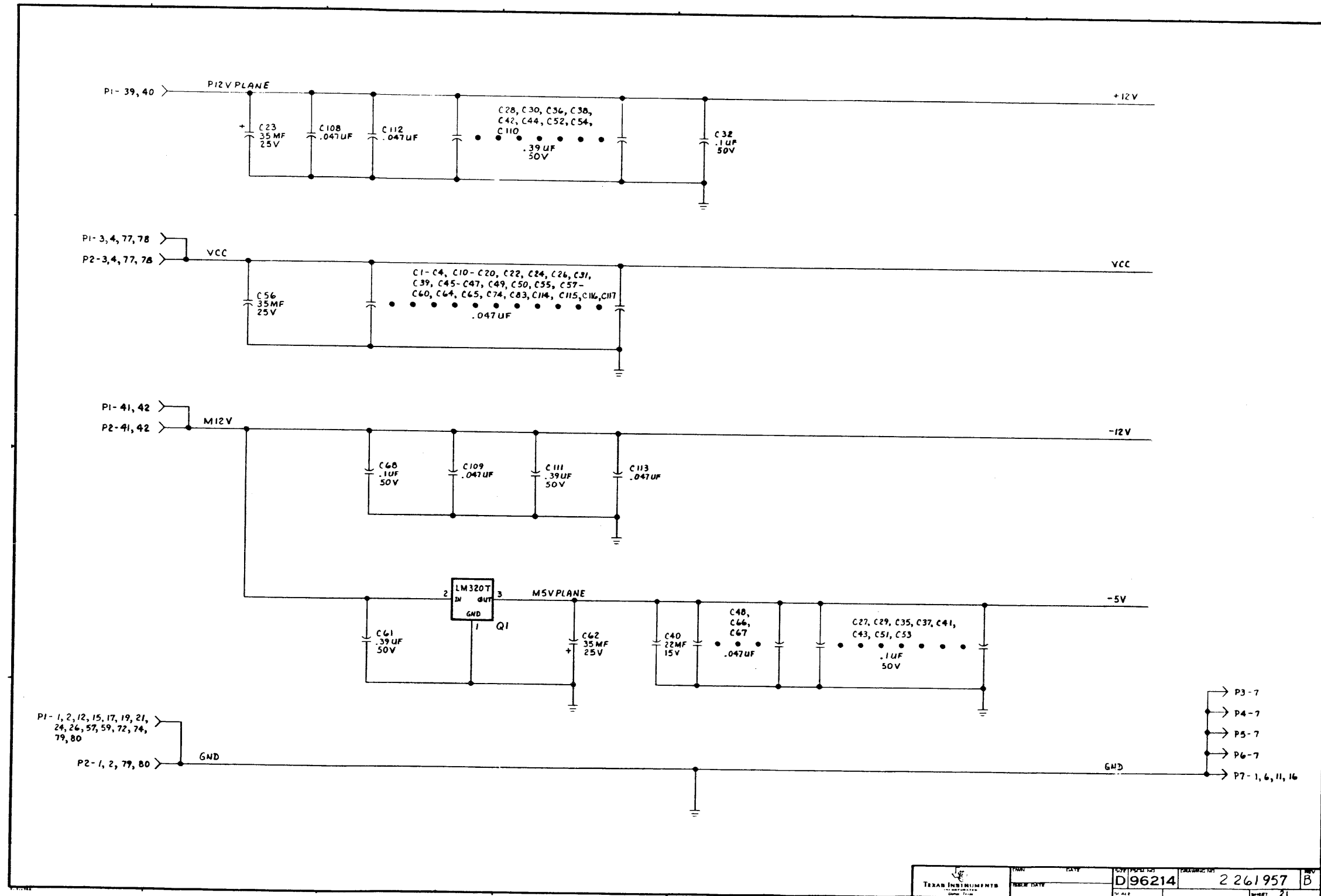
Four Channel Communications Controller Logic Diagram



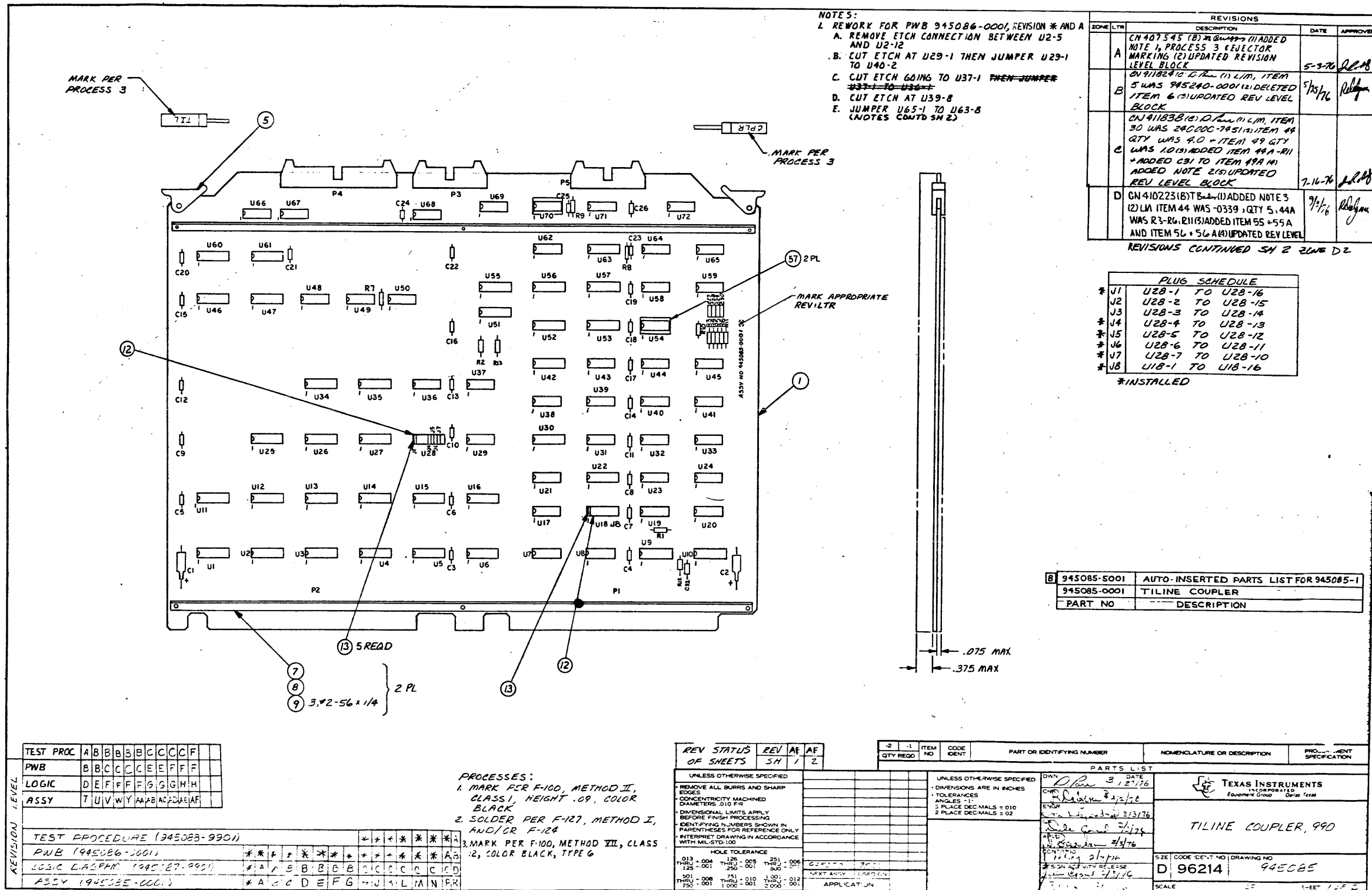
COMMUNICATIONS CONTROLLER		DATE	DATE	DESIGN NO.	DRAWING NO.	REV.
TEXAS INSTRUMENTS	DATE			D96214	2261957	B
SCALE						SHEET 18



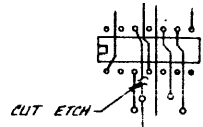




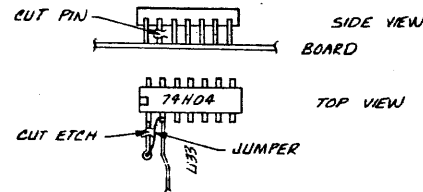
 TEXAS INSTRUMENTS <small>DAVIDSON ROAD DALLAS, TEXAS 75243</small>	DATE _____	SIZE D96214	DRAWING NO. 2261957	REV. B
	DRAWN BY _____	SCALE _____	SHEET 21	



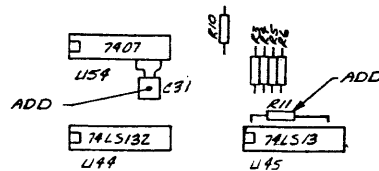
- NOTES (COND.)
2. REWORK FOR PWB 945086-0001 REV # AND A
    - A. REMOVE JUMPER FROM U37-1 TO U58-5 ON THE CONDUCTOR SIDE
    - B. ADD JUMPER FROM U37-1 TO U58-5 ON THE CONDUCTOR SIDE
    - C. CUT THE ETCH AT U36-1 COMPONENT SIDE ONLY
    - D. ADD JUMPER FROM U65-9 TO U65-12 ON THE CONDUCTOR SIDE
    - E. ADD JUMPER FROM U17-6 TO U65-13 ON THE CONDUCTOR SIDE
    - F. ADD JUMPER FROM U65-11 TO U36-1 ON THE CONDUCTOR SIDE
    - G. CUT ETCH GOING TO U45-5 UNDER THE CHIP ON THE COMPONENT SIDE
    - H. ADD JUMPER FROM U29-2 TO U38-13 ON THE CONDUCTOR SIDE
    - I. ADD JUMPER FROM U38-12 TO U45-5 ON THE CONDUCTOR SIDE
    - K. CUT THE ETCH GOING TO U19-12 ON THE COMPONENT SIDE



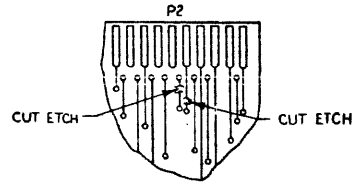
- L. ADD JUMPER FROM U19-12 TO U45-12 AND U45-13 ON THE CONDUCTOR SIDE
- M. CUT THE ETCH GOING TO U33-1 ON THE COMPONENT SIDE
- N. ADD JUMPER FROM U45-8 TO U33-1 AND U33-2 ON THE CONDUCTOR SIDE
- P. CUT PIN #2 ON U33
- R. ADD JUMPER FROM U33-2 TO THE FEED THROUGH HOLE ON THE ETCH WHICH WENT TO U33-1 ON THE COMPONENT SIDE



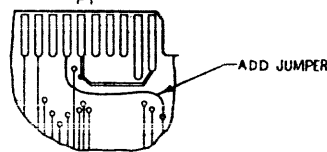
- S. ADD JUMPER FROM U69-2 TO U59-3 ON THE CONDUCTOR SIDE
- T. ADD JUMPER FROM U59-4 TO U45-9 AND U45-10 ON THE CONDUCTOR SIDE
- U. SOLDER R11 (539370-0354, 475 Ω) (ITEM 44) RESISTOR BETWEEN U45-9 AND U45-11 ON THE COMPONENT SIDE
- V. SOLDER C31 (539679-0006, 330 pF) (ITEM 49) CAPACITOR BETWEEN U59-4 AND U59-7 ON THE ETCH SIDE



- NOTES (COND.)
3. REWORK FOR PWB 945086-0001 REV # AND A
    - A. CHANGE R3 TO 750 Ω, 1/4W, 1%, 100 PPM/°C (539370-0373)
    - B. CHANGE R4, R6 AND R11 TO 475 Ω, 1/4W, 1%, 100 PPM/°C (539370-0354)
    - C. CHANGE R5 TO 385 Ω, 1/4W, 1%, 100 PPM/°C (539370-0345)
  4. REWORK FOR PWB 945086-0001, REV # AND A ONLY. COMPONENT SIDE, UNDER BOTTOM STIFFENER:
    - A. CUT THE ETCH GOING TO P2-14, AS SHOWN
    - B. CUT THE ETCH GOING TO P2-13, AS SHOWN



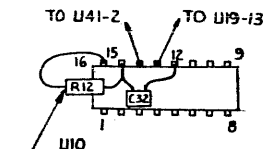
C. ADD JUMPER FROM P1-14 TO THE FEEDTHROUGH HOLE ON THE ETCH WHICH WENT TO P2-14, AS SHOWN.



- CONDUCTOR SIDE:
- D. ADD JUMPER FROM P1-13 TO U38-1
  - E. ADD JUMPER FROM U43-1 TO U70-11
  - F. ADD JUMPER FROM U70-10 TO U70-4

5. WHERE JUMPER WIRES ARE CALLED OUT USE ITEM 58

6. REWORK FOR PWB 945086-0001 REV # AND REV A:
  - A. CUT PIN U41-2 AS CLOSE TO BOARD AS PRACTICAL
  - B. CUT ETCH BETWEEN U17-10 AND U17-9 ON CONDUCTOR SIDE OF BOARD
  - C. ADD JUMPER FROM U19-13 TO U10-13
  - D. ADD JUMPER FROM U10-11 TO U17-10
  - E. ADD JUMPER FROM U10-14 TO U41-2 (DEVICE)
  - F. ADD R12 (ITEM 56-383 Ω 1%) FROM U10-16 TO U10-15, AND ADD C32 (ITEM 49-330 pF) FROM U10-15 TO U10-12 AS SHOWN:



SECURE TO BOARD WITH HOT MELT TO PREVENT R12 LEAD FROM SHORTING ETCH

- G. ADD JUMPER FROM U70-12 TO U54-10 ON CONDUCTOR SIDE OF BOARD
- H. ADD JUMPER FROM U70-13 TO U64-2 ON CONDUCTOR SIDE OF BOARD
- J. CUT PINS U36-9, U43-12, U43-13, U20-2 AS CLOSE TO BOARD AS PRACTICAL
- K. ADD JUMPER FROM U36-9 (DEVICE) TO U36-11
- L. ADD JUMPER FROM U43-11 TO U20-2 (DEVICE)
- M. ADD JUMPER FROM U43-12 (DEVICE) TO U30-11
- N. ADD JUMPER FROM U43-13 (DEVICE) TO U37-9

- NOTES (COND.)
7. REWORK FOR PWB 945086-0001 REV B:
    - A. CUT PIN U17-10 AS CLOSE TO BOARD AS PRACTICAL
    - B. ADD JUMPER FROM U10-11 TO U17-10 (DEVICE)
    - C. ADD JUMPER FROM U70-12 TO U54-10 ON CONDUCTOR SIDE OF BOARD
    - D. ADD JUMPER FROM U70-13 TO U64-2 ON CONDUCTOR SIDE OF BOARD
    - E. CUT PINS U36-9, U43-12, U43-13, U20-2 AS CLOSE TO BOARD AS PRACTICAL
    - F. ADD JUMPER FROM U36-9 (DEVICE) TO U36-11
    - G. ADD JUMPER FROM U43-11 TO U20-2 (DEVICE)
    - H. ADD JUMPER FROM U43-12 (DEVICE) TO U30-11
    - J. ADD JUMPER FROM U43-13 (DEVICE) TO U37-9
  8. ITEM 59 IN -0001 LM CONSISTS OF COMPONENTS WHICH ARE AUTO-INSERTED AND CONTAINED IN THE -5001 LM.
  9. REWORK FOR ASSY REV AD & EARLIER REMOVE C29 NEAR LOCATION U59 & INSTALL A 1500 PF CAPACITOR (ITEM 61) PN 972429-0400 AT THIS LOCATION.

REVISED		DESCRIPTION	DATE	APPROVED
E	1	CM413400(E) (1) (2) (3) LM-1, ITEM 52 WAS 972756-0021 (2) REVISED REV LEVEL BLOCK	9-30-76	J.R. Rife
F	1	CM417301(E) (1) (2) (3) LM-1, ITEM 53 WAS 972759-0021 (2) REVISED REVISION LEVEL BLOCK	9-30-76	J.R. Rife
G	1	CM422698(C) (1) (2) (3) SAT 1, UPDATED REV LEVEL BLOCK (2) REVISED NOTE 12 (3) SATZ DELETED NOTE 2A (4) ITEM 4 OF LM WAS 945089-9901	10/1/76	J.R. Rife
H	1	CM417811(E) (1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13) (14) (15) (16) (17) (18) (19) (20) (21) (22) (23) (24) (25) (26) (27) (28) (29) (30) (31) (32) (33) (34) (35) (36) (37) (38) (39) (40) (41) (42) (43) (44) (45) (46) (47) (48) (49) (50) (51) (52) (53) (54) (55) (56) (57) (58) (59) (60) (61) (62) (63) (64) (65) (66) (67) (68) (69) (70) (71) (72) (73) (74) (75) (76) (77) (78) (79) (80) (81) (82) (83) (84) (85) (86) (87) (88) (89) (90) (91) (92) (93) (94) (95) (96) (97) (98) (99) (100) (101) (102) (103) (104) (105) (106) (107) (108) (109) (110) (111) (112) (113) (114) (115) (116) (117) (118) (119) (120) (121) (122) (123) (124) (125) (126) (127) (128) (129) (130) (131) (132) (133) (134) (135) (136) (137) (138) (139) (140) (141) (142) (143) (144) (145) (146) (147) (148) (149) (150) (151) (152) (153) (154) (155) (156) (157) (158) (159) (160) (161) (162) (163) (164) (165) (166) (167) (168) (169) (170) (171) (172) (173) (174) (175) (176) (177) (178) (179) (180) (181) (182) 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D	1	96214	945085	

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		DATE 02/29/80		PAGE 1 of		PART NUMBER LM0945085-0001		REV AF			
PART ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEASURE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER							
0002	REF	EA		0945087-9901	LOGIC DIAGRAM-TILINE COUPLER								
0003	REF	EA		0945088-9901	TEST PROLEDRG-TILINE COUPLER								
0004	REF	EA		0945090-9901	SPECIFICATION-TILINE COUPLER								
0005	00002-000	EA		0533844-0001	EJECTOR, MXLON, NON-LOCKING, PWB								
0007	00002-000	EA		0945239-0001	BASKET-STIFFENER, PWB, 14IN								
0008	00002-000	EA		0944954-0001	INSULATOR, PWB, 14IN								
0009	00006-000	EA		0972684-0002	SCREW, THD FRNG, HEX HSKH HD, 2-56X1/4 LG								
0010	00002-000	EA		0972137-0001	CONNECTOR, PC-HEADER 20 CONTACT	BE1 - 65483-001							
0010A					P3 P5								
0011	00001-000	EA		0972137-0004	CONNECTOR, P.C. HEADER 40 CONTACT ANGLE	763813-422-1002							
0011A					P4								
0012	00002-000	EA		0972212-0016	SOCKET, IC 16 PIN DUAL-IN-LINE	AUGAT 7516-AE-10							
0012A					XU18 XU28								
0013	00006-000	EA		0972713-0001	PLUG, JUMPER, I.C., 0-300 INCH								
0013A					J1, J4 JIBU J8								
0014	00003-000	EA		0972594-0005	SWITCH, ROCKER-PWB MOUNTED	023880-900128							
0014A					U51 U55 U63								
0019	00002-000	EA		0222222-7407	NETWORK-SN7407N	TI- SN7407N							
0019A					U54 U70								
0047	00001-000	EA		0972944-0065	RES FIX 1/20K OHM 5% .25 W CARBON FILM	ROH 78-23							
DRAFTSMAN		DATE		C.D. DRAFTSMAN		DATE		DESIGN ENGINEER		DATE		TITLE	
		3-3-80		L.R. RAY								TILINE COUPLER	
APPD. MFG.		DATE		APPD. PROJECT ENGINEER		DATE		RELEASED		DATE		PROJECT NO.	
												7506	
												PART NUMBER LM0945085-0001	
												REV AF	

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		DATE 02/29/80		PAGE 2 of		PART NUMBER LM0945085-0001		REV AF			
PART ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEASURE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER							
0047A					R1								
0049	00003-000	EA		0539679-0006	CAPACITOR, 330 PF 24 100V FX CEM DIE	095275-VK20BA3316							
0049A					C28 C31 C32								
0050	00001-000	EA		0539679-0007	CAPACITOR, 390 PF 24 100V FX CER DIE	095275-VK20BA3916							
0050A					C30								
0051	00001-000	EA		0539679-0009	CAPACITOR, 750 PF 24 100V FX CER DIE	095275-VK20BA7516							
0051A					C27								
0054	00002-000	EA		0972924-0010	CAP FIX TANT SOLID 22 MFD 10 3 15 VOLT	WPL -M39003/1-2271							
0054A					C1 C2								
0057	00002-000	EA		2210188-0002	SOCKET, LHM PROFILE, DIP, 14 PINS	003612-DLL814P-108							
0057A					XU54, XU70								
0058	AR	FT		0535978-0058	WIRE ELCC, SOLID, "KVMAR" INSUL #30 AWG								
0059	00001-000	EA		0945085-5001	AUTO-INSERTED PARTS LIST FOR 945085-0001								
0061	00001-000	EA		0972929-0400	CAP, FIXED CERAMIC, .0015UF 10% 100V								
0061A					C29								
DRAFTSMAN		DATE		C.D. DRAFTSMAN		DATE		DESIGN ENGINEER		DATE		TITLE	
												TILINE COUPLER	
APPD. MFG.		DATE		APPD. PROJECT ENGINEER		DATE		RELEASED		DATE		PROJECT NO.	
												PART NUMBER LM0945085-0001	
												REV AF	

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		DATE 02/29/80		PAGE 1 of		PART NUMBER LM0945085-5001		REV AF			
PART ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEASURE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER							
0001	00001-000	EA		0945086-0001	PWB-TILINE COUPLER								
0015	00002-000	EA		0240000-7400	NETWORK-SN74H00N								
0015A					U37 U44								
0016	00001-000	EA		0219402-7402	NETWORK SN74S02N	TI -SN74S02N							
0016A					U41								
0017	00002-000	EA		0240000-7404	NETWORK SN74H04N								
0017A					U33 U38								
0018	00001-000	EA		0972900-7404	NETWORK SN74LS04N								
0018A					U8								
0020	00002-000	EA		0972749-0001	NETWORK, SN74LS08N								
0020A					U20 U43								
0021	00001-000	EA		0240000-7410	NETWORK-SN74H10N								
0021A					U32								
0022	00002-000	EA		0240000-7411	NETWORK-SN74H11N								
0022A					U19 U29								
0023	00001-000	EA		0972784-0001	NETWORK SN74LS13N								
0023A					U45								
0024	00001-000	EA		0972784-0002	NETWORK SN74LS14N								
0024A					U69								
0025	00001-000	EA		0240000-7420	NETWORK-SN74H20N								
DRAFTSMAN		DATE		C.D. DRAFTSMAN		DATE		DESIGN ENGINEER		DATE		TITLE	
												AUTO-INSERTED PARTS LIST FOR 945085-0001	
APPD. MFG.		DATE		APPD. PROJECT ENGINEER		DATE		RELEASED		DATE		PROJECT NO.	
												PART NUMBER LM0945085-5001	
												REV AF	

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		DATE 02/29/80		PAGE 2 of		PART NUMBER LM0945085-5001		REV AF			
PART ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEASURE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER							
0025A					U40								
0026	00001-000	EA		0972900-7430	NETWORK SN74LS30N	TI -SN74LS30N							
0026A					U7								
0027	00001-000	EA		0219402-7432	NETWORK SN74S32N	TI- SN74S32N							
0027A					U45								
0028	00001-000	EA		0222222-7438	NETWORK SN7438N								
0028A					U39								
0029	00001-000	EA		0972783-0001	NETWORK, SN74LS42N MCDADCL								
0029A					U22								
0030	00002-000	EA		0219402-7451	NETWORK SN74S51N								
0030A					U17 U21								
0031	00003-000	EA		0240000-7474	NETWORK-SN74H74N								
0031A					U23 U58 U59								
0032	00002-000	EA		0972900-7474	NETWORK SN74LS74N								
0032A					U24 U31								
0033	00004-000	EA		0972785-0001	NETWORK SN74S85N								
0033A					U52 U53 U56 U57								
0034	00001-000	EA		0222222-7125	NETWORK SN74125N								
0034A					U30								
0035	00001-000	EA		0972782-0001	NETWORK SN74LS132N	TI -SN74LS132N							
DRAFTSMAN		DATE		C.D. DRAFTSMAN		DATE		DESIGN ENGINEER		DATE		TITLE	
												AUTO-INSERTED PARTS LIST FOR 945085-0001	
APPD. MFG.		DATE		APPD. PROJECT ENGINEER		DATE		RELEASED		DATE		PROJECT NO.	
												PART NUMBER LM0945085-5001	
												REV AF	

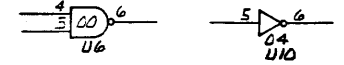


TEXAS INSTRUMENTS INCORPORATED		DATE 02/29/80		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM0945085-5001		REV AF	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0035A					U44						
0036	00001.000	EA		0219402-7133	NETWORK SM745133N						
0036A					U42						
0037	00001.000	EA		0972159-7265	NETWORK SM74265N						
0037A					U30						
0038	00002.000	EA		0972652-0001	NETWORK SM7413263N						
0038A					U46 U47						
0039	00007.000	EA		0972787-0003	NETWORK SM74LS367N						
0039A					U25 U26 U27 U34 U35 U40 U41						
0040	00012.000	EA		0972787-0004	NETWORK SM74LS368N						
0040A					U1 THRU U6, U11 THRU U16						
0041	00002.000	EA		0974674-0001	NETWORK SM75138N						
0041A					U9 U10						
0042	00006.000	EA		0972007-1470	NETWORK, RES., 14 PIN, 47 OHM, 2% TOLERANCE ELEMENT						
0042A					U48 U49 U50 U46 U47 U48						
0043	00003.000	EA		0972141-0057	NETWORK, RES., 4.7 K OHM 2 x 14 PIN DIP	BEC	- 899-1-R4-7K				
0043A					U62 U71 U72						
0044	00003.000	EA		0539370-0054	RES FIX FILM 475 OHM 1% .25 WATT	LUM	- NA55				
0044A					R4 R6 R11						
0045	00003.000	EA		0972946-0033	RES FIX 47-0 OHM 5 % .25 W-CARBON FILM	RUM	- N-25				
DRAFTSMAN _____ DATE _____ CTD DRAFTSMAN _____ DATE _____ DESIGN ENGINEER _____ DATE _____ TITLE _____ APP'D. MFG. _____ DATE _____ APP'D. PROJECT ENGINEER _____ DATE _____ RELEASED _____ DATE _____ PROJECT NO. _____ PART NUMBER: LM0945085-5001 REV: AF											

TEXAS INSTRUMENTS INCORPORATED		DATE 02/29/80		LIST OF MATERIAL		PAGE 4 of		PART NUMBER LM0945085-5001		REV AF	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0045A					R2 R7 R10						
0046	00001.000	EA		0972946-0047	RES FIX 10K OHM 5 % .25 W CARBON FILM	RUM	- R-25				
0046A					R8						
0048	00001.000	EA		0972946-0091	RES FIX 1.2 K OHM 5% .25 W CARBON FILM	RUM	- R-25				
0048A					R9						
0052	00001.000	EA		0972757-0021	CAP, FIX, CERAMIC, 4700PF, 50V 10% C25						
0052A					C25						
0053	00023.000	EA		0972763-0021	CAP., FIXED, AXIAL LEAD, .047 UF, +80% -20%						
0053A					C3 THRU C24, C26						
0055	00001.000	EA		0539370-0373	RES FIX FILM 750 OHM 1% .25 WATT	CUR	- NA55				
0055A					R3						
0056	00002.000	EA		0539370-0045	RES FIX FILM 383 OHM 1% .25 WATT	LUM	- NA55				
0056A					R5 R12						
0060	00001.000	EA		0972946-0081	RES FIX 4.7K OHM 5 % .25 W CARBON FILM	RUM	- N-25				
0060A					R13						
DRAFTSMAN _____ DATE _____ CTD DRAFTSMAN _____ DATE _____ DESIGN ENGINEER _____ DATE _____ TITLE _____ APP'D. MFG. _____ DATE _____ APP'D. PROJECT ENGINEER _____ DATE _____ RELEASED _____ DATE _____ PROJECT NO. _____ PART NUMBER: LM0945085-5001 REV: AF											

NOTES: UNLESS OTHERWISE SPECIFIED;

1. ALL DEVICE TYPES ARE PREFIXED WITH SN74.
2. GROUND IS APPLIED TO PIN 7 OF ALL 14-PIN IC'S AND PIN 8 OF ALL 16-PIN IC'S.
3. VCC IS APPLIED TO PIN 14 OF ALL 14-PIN IC'S AND PIN 16 OF ALL 16-PIN IC'S.
4. DEVICE TYPE, PIN NUMBERS AND REFERENCE DESIGNATOR OF IC IS SHOWN AS FOLLOWS:



00 AND 04 = DEVICE TYPE  
 4, 5 AND 6 = PIN NUMBERS  
 U6 AND U10 = REFERENCE DESIGNATOR

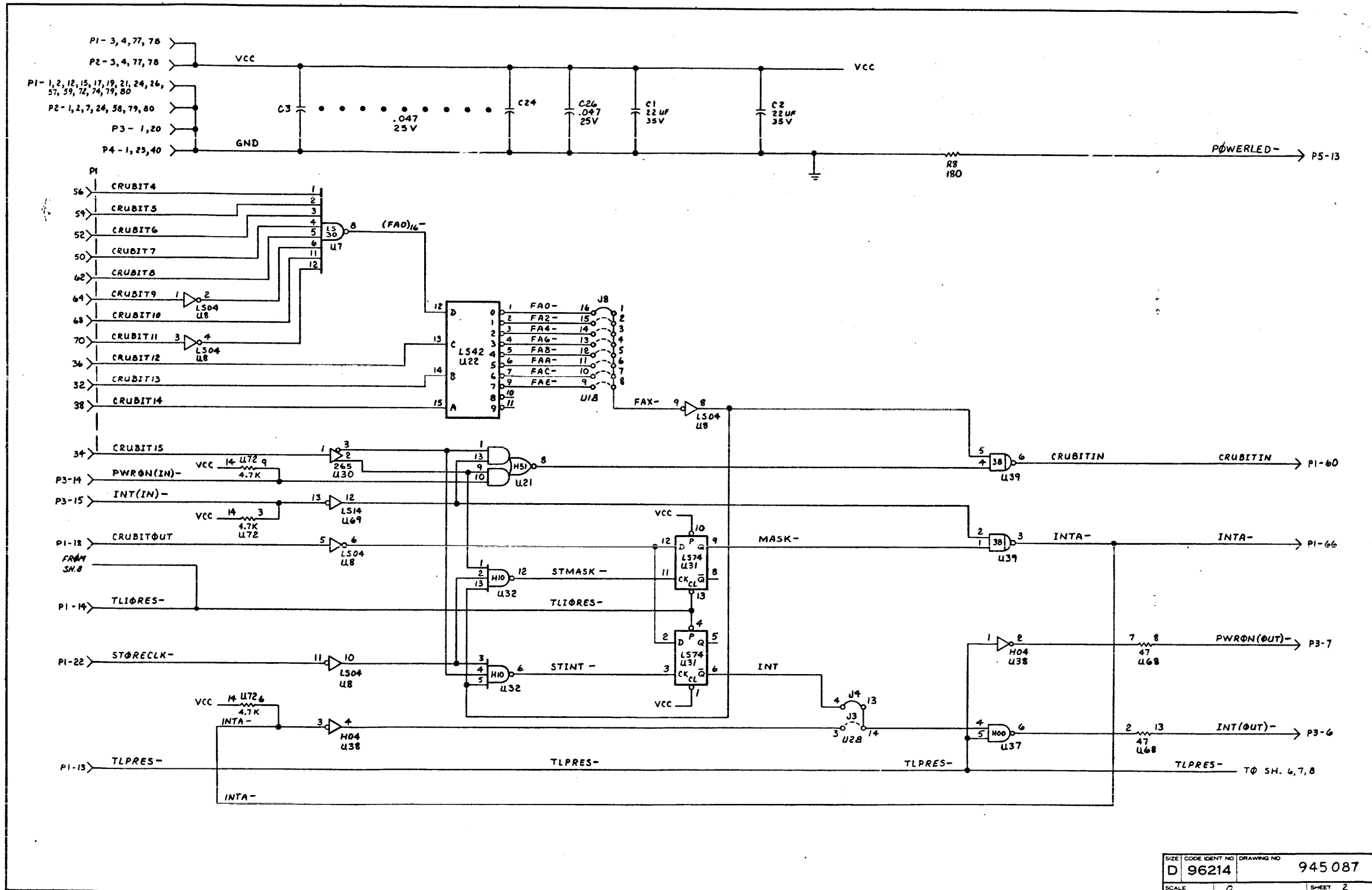
5. ALL RESISTORS 1/4 WATT, 5%

REVISIONS			
ZONE	LTR	DESCRIPTION	DATE
A		CN407547 (C) M. D. 4/19/76	5-11-76
B		CN411991 (C) D. J. 1/20/77	7-15-76
C		CN417810 (C) G. T. 1/20/77	1/20/77
D		CN426299 (C) G. T. 1/20/77	6-22-76
E		CN4342277 (C) A. C. 1/20/77	8-13-78
F		CN446457 (C) S. D. 1/20/77	10-3-79
G		CN442591 (C) S. D. 1/20/77	4-23-79

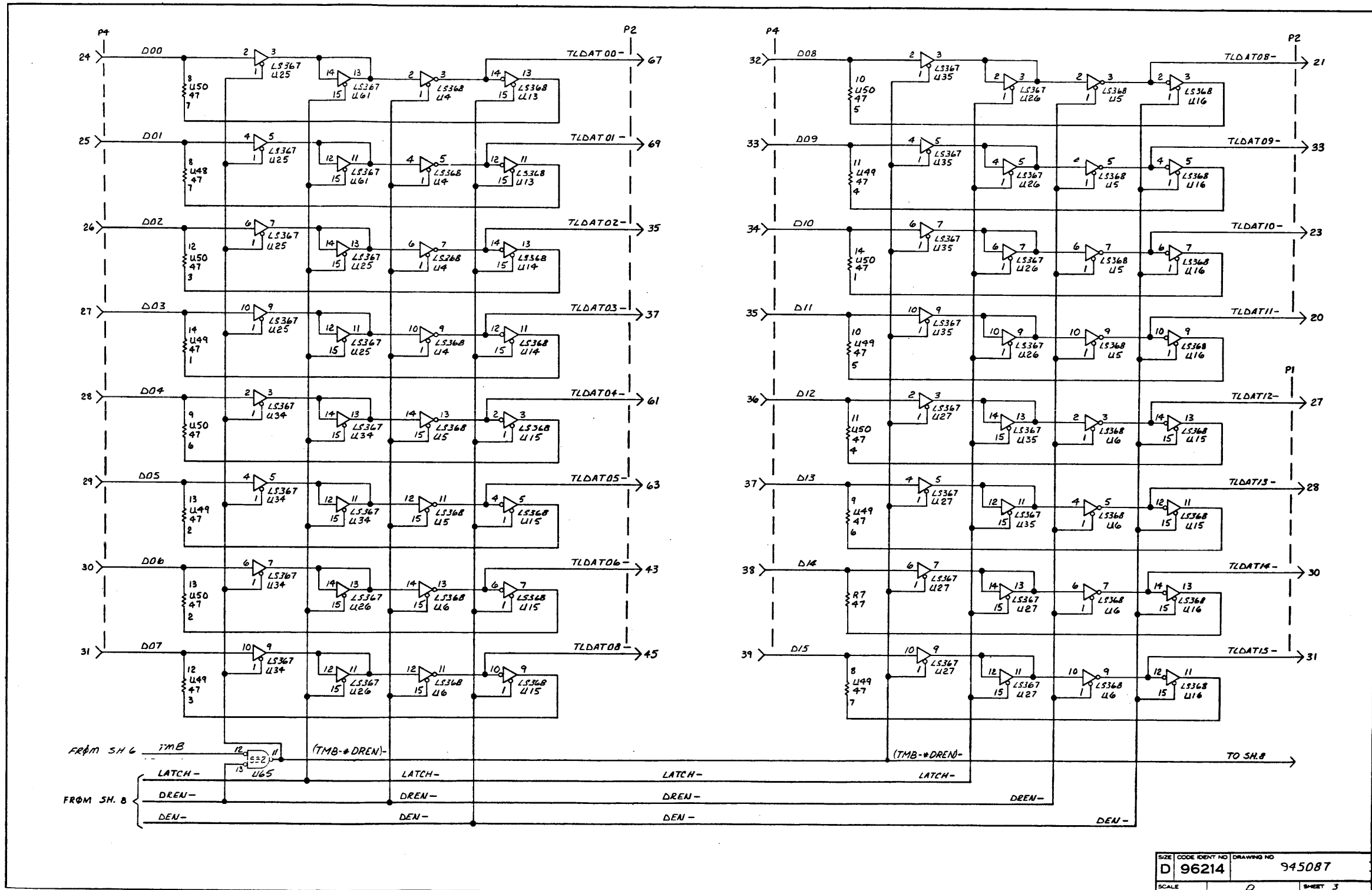
REV STATUS	REV	G	D	D	-	G	F	G	F
OF SHEETS	SHEET	1	2	3	4	5	6	7	8

QTY	REQD	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	REQUIREMENT SPECIFICATION																				
PARTS LIST																										
UNLESS OTHERWISE SPECIFIED				UNLESS OTHERWISE SPECIFIED																						
<ul style="list-style-type: none"> <li>• REMOVE ALL BURRS AND SHARP EDGES</li> <li>• CONCENTRICITY MACHINED DIAMETERS .010 Pk</li> <li>• DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING</li> <li>• IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY</li> <li>• INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100</li> </ul>				<ul style="list-style-type: none"> <li>• DIMENSIONS ARE IN INCHES</li> <li>• TOLERANCES</li> <li>• ANGLES ±1°</li> <li>• 3 PLACE DECIMALS = .010</li> <li>• 2 PLACE DECIMALS = .02</li> </ul>																						
<table border="1"> <thead> <tr> <th>HOLE TOLERANCE</th> <th>THRU</th> <th>THRU</th> <th>THRU</th> </tr> </thead> <tbody> <tr> <td>.013 +.004</td> <td>.125 +.005</td> <td>.251 +.005</td> <td></td> </tr> <tr> <td>.125 -.001</td> <td>.250 -.001</td> <td>.500 -.001</td> <td></td> </tr> </tbody> </table>				HOLE TOLERANCE	THRU	THRU	THRU	.013 +.004	.125 +.005	.251 +.005		.125 -.001	.250 -.001	.500 -.001		<table border="1"> <thead> <tr> <th>DATE</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>3/26/76</td> <td></td> </tr> <tr> <td>4/7/76</td> <td></td> </tr> <tr> <td>4/9/76</td> <td></td> </tr> </tbody> </table>			DATE	DATE	3/26/76		4/7/76		4/9/76	
HOLE TOLERANCE	THRU	THRU	THRU																							
.013 +.004	.125 +.005	.251 +.005																								
.125 -.001	.250 -.001	.500 -.001																								
DATE	DATE																									
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<table border="1"> <thead> <tr> <th>SIZE</th> <th>CODE IDENT NO</th> <th>DRAWING NO</th> </tr> </thead> <tbody> <tr> <td>D</td> <td>96214</td> <td>945 087</td> </tr> </tbody> </table>				SIZE	CODE IDENT NO	DRAWING NO	D	96214	945 087	<p>TEXAS INSTRUMENTS                  INCORPORATED                  Equipment Group                  Dallas, Texas</p> <p>LOGIC DIAGRAM -                  TILINE COUPLER</p>																
SIZE	CODE IDENT NO	DRAWING NO																								
D	96214	945 087																								
<table border="1"> <thead> <tr> <th>SCALE</th> <th>SHEET</th> </tr> </thead> <tbody> <tr> <td></td> <td>1 of 5</td> </tr> </tbody> </table>				SCALE	SHEET		1 of 5	<p>DESIGN ACTIVITY RELEASE</p>																		
SCALE	SHEET																									
	1 of 5																									

Coupler Logic Diagram

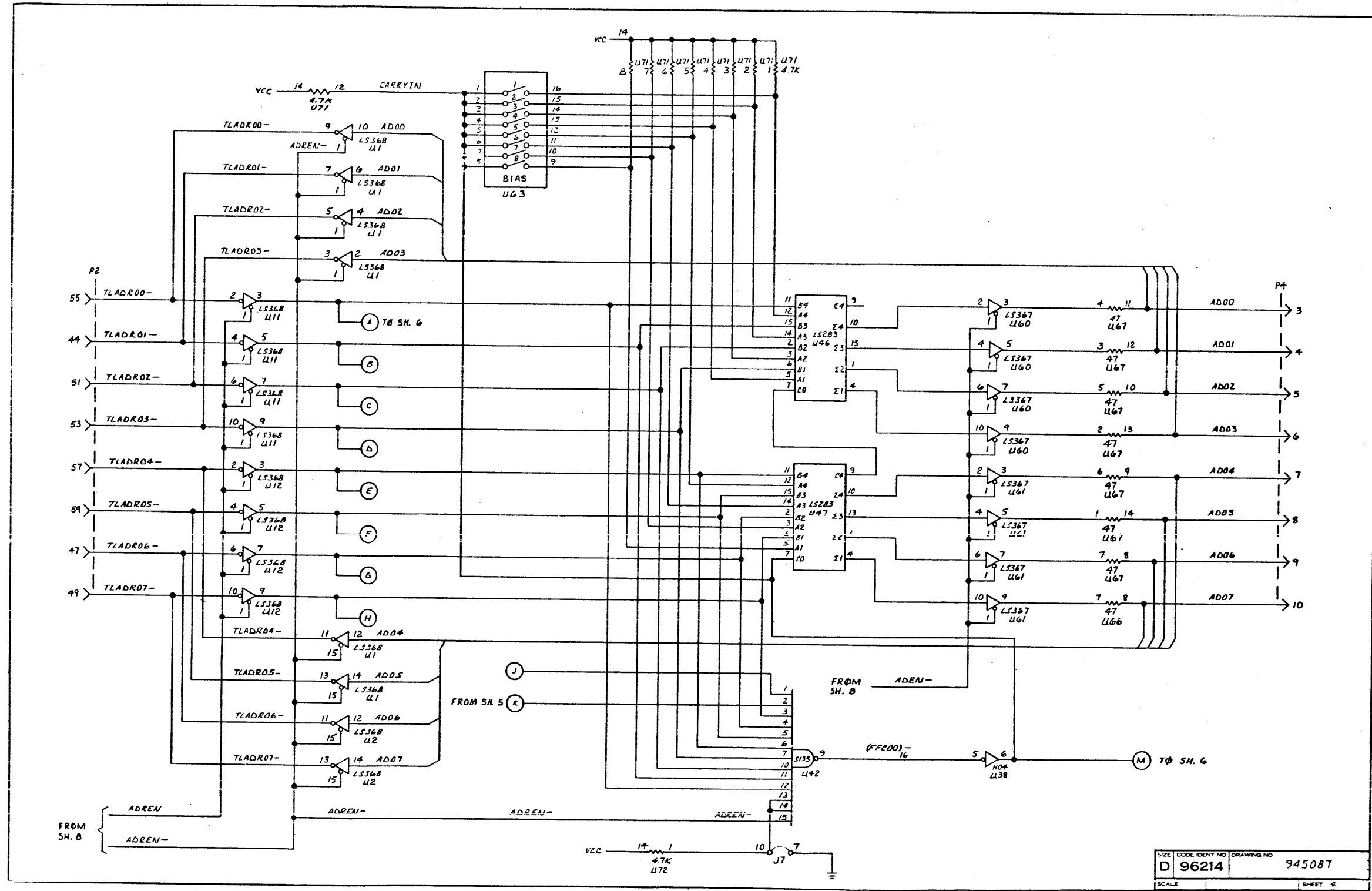


SIZE	CODE IDENT NO	DRAWING NO
D	96214	945087
SCALE	0	SHEET 2

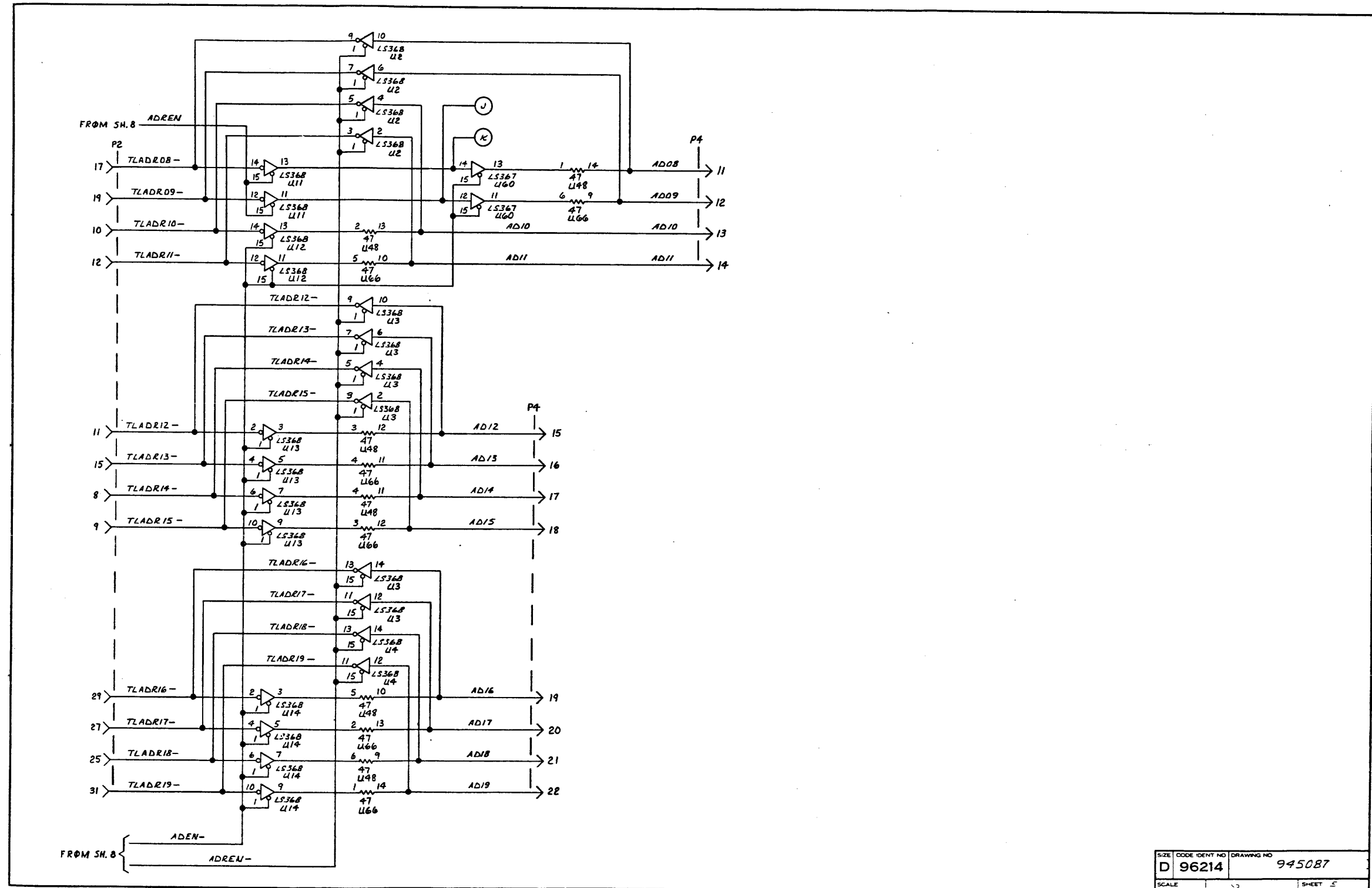


SIZE	CODE IDENT NO	DRAWING NO
D	96214	945087
SCALE	0	SHEET 3

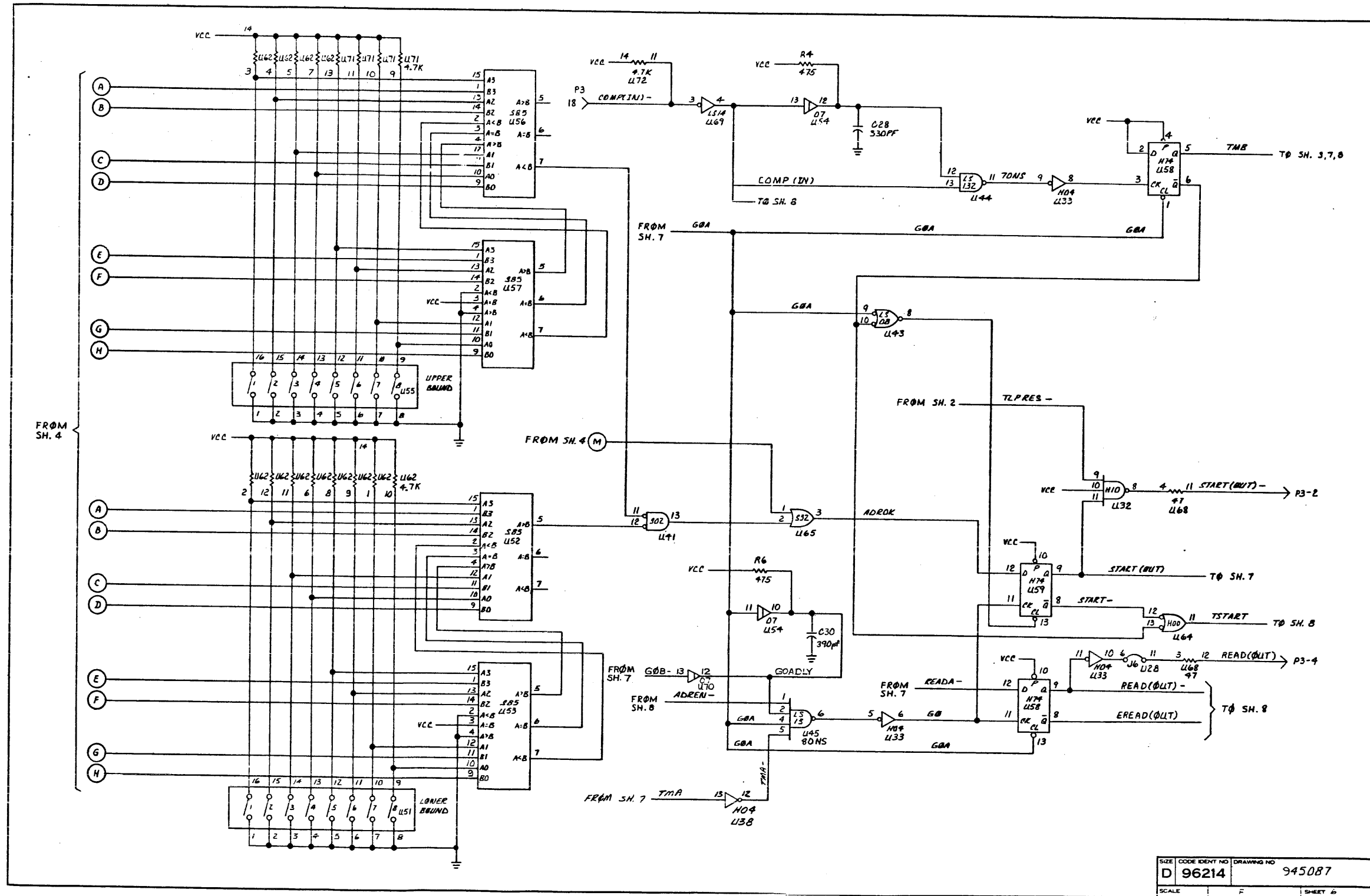
Coupler Logic Diagram



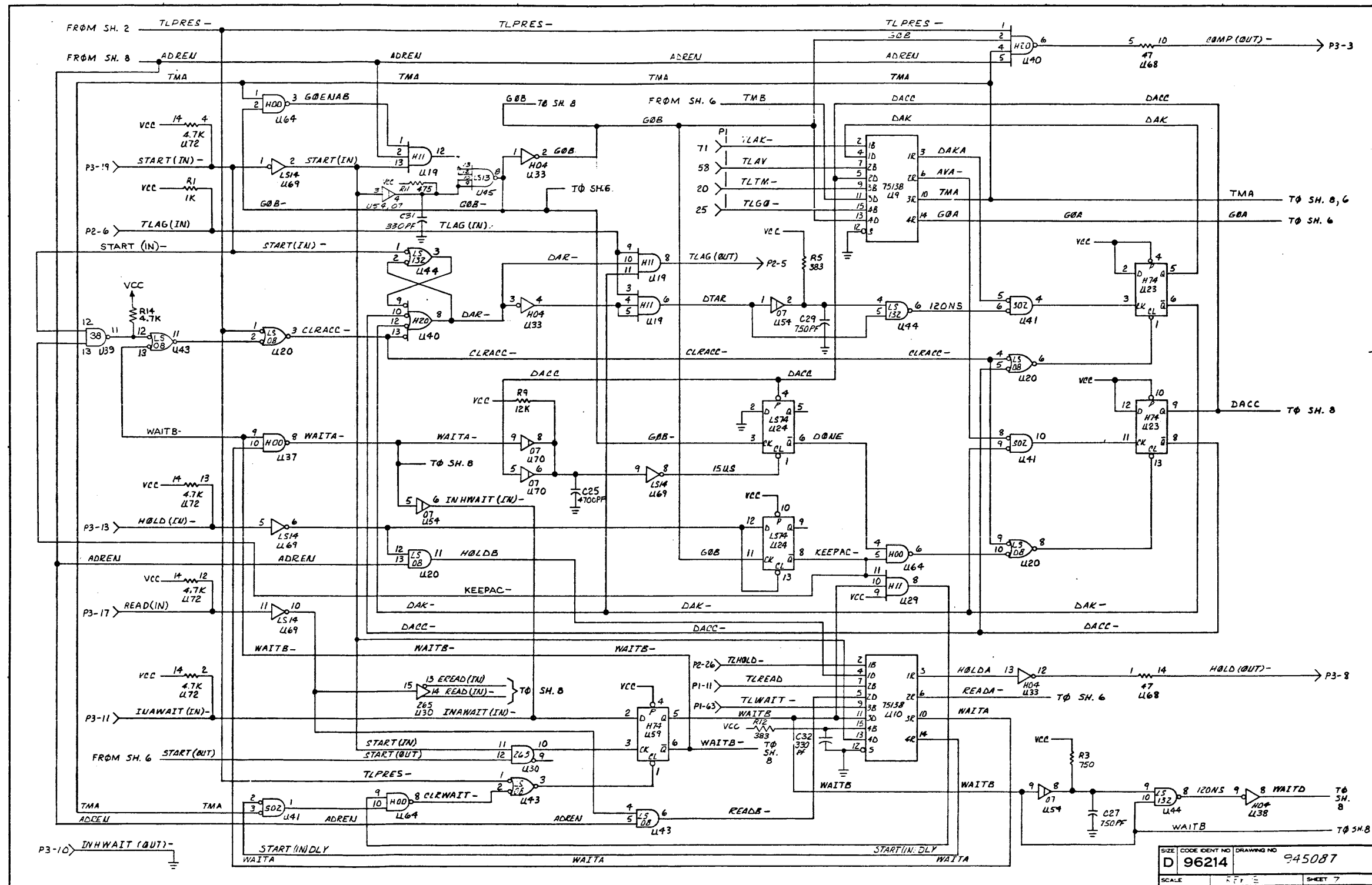
SIZE	CODE IDENT NO	DRAWING NO
D	96214	945087
SCALE	SHEET 4	



### Coupler Logic Diagram

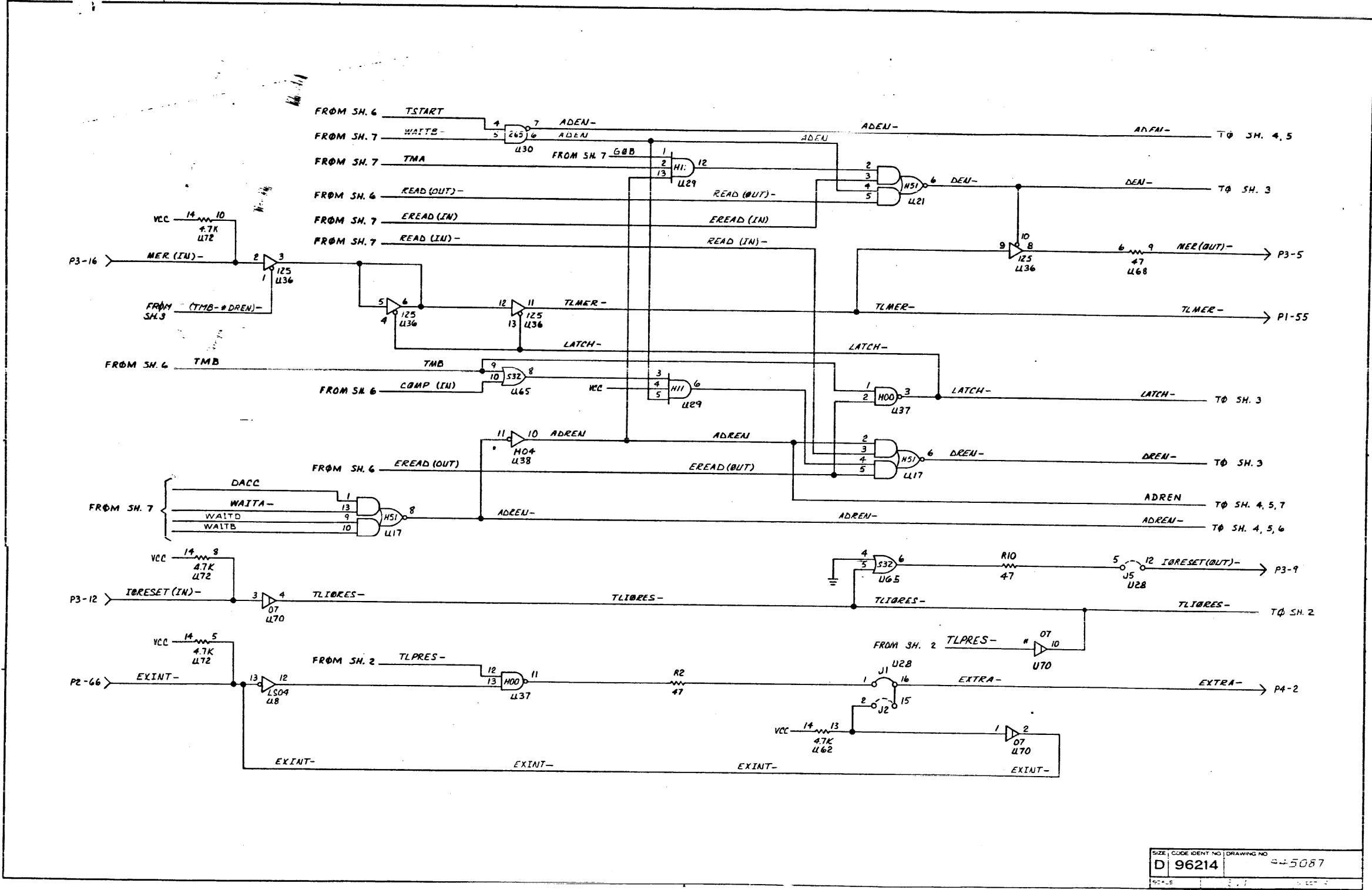


SIZE	CODE IDENT NO	DRAWING NO
D	96214	945087
SCALE	F	SHEET 4





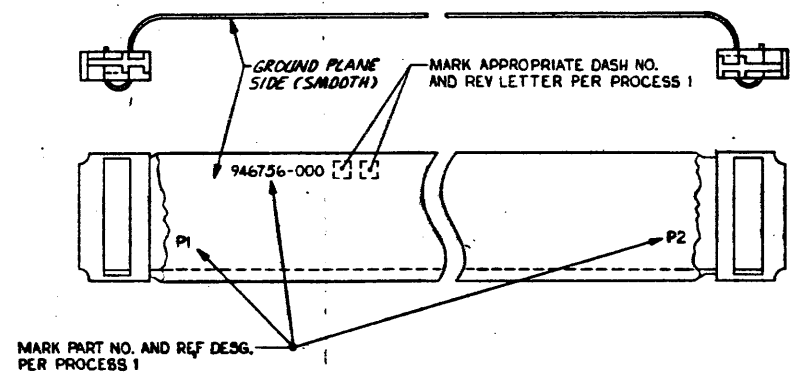
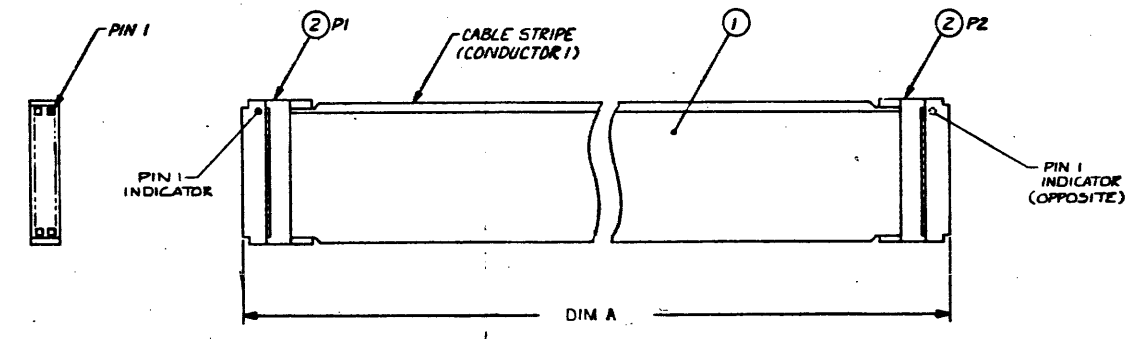
Coupler Logic Diagram



SIZE	CODE IDENT NO	DRAWING NO
D	96214	445087
REV.	2	1

NOTES:  
 1 ITEM 101 IN -0001 LM CONSISTS OF BULK CABLE ASSEMBLY MATERIAL

REV	DATE	APPROVED
A	04-22-75 (C) E. Niskell (1) REVISED PICTORIAL MARKING	[Signature]
B	04-29-75 (C) E. Niskell (1) LIM A WAS 144.00 ± 2.00 ADDED DIM TABLE (2) LIM ADDED - 2.7-6	[Signature]
C	04-22-75 (C) D. Edwards (1) REVISED -5001 LM (2) ADDED LM ITEM 101 TO -0001 (3) ADDED FLAG NOTE 1 (4) ADDED PART NO. BLOCK	[Signature]
D	04-27-75 (C) D. Edwards (1) ADDED PIN 1 INDICATOR ZONE C7, AT P1 (2) ADDED PIN 1 INDICATOR (OPPOSITE) ZONE C5, AT P2 (3) DELETED PIN 1 INDICATOR ZONES B5, B7 (4) -0001, -0002 & -0006 LM ITEM 2. PIN WAS 972097-5	[Signature]



PART NUMBER	DESCRIPTION
946756-5001	BULK CABLE ASSY MATERIAL DR-0001
946756-0006	CABLE, TILINE COUPLER DATA
946756-0002	CABLE, TILINE COUPLER DATA
946756-0001	CABLE, TILINE COUPLER DATA

PART #	DIM %
946756-0001	144.00 ± 2.00
946756-0002	96.00 ± 6.00
946756-0006	216.00 ± 12.00

PROCESSES:  
 1 MARK PER F-100 METHOD II CLASS 1  
 HEIGHT .09 COLOR BLACK

QTY REQD	ITEM NO	CODE	IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROUREMENT SPECIFICATION

UNLESS OTHERWISE SPECIFIED		UNLESS OTHERWISE SPECIFIED	
REMOVE ALL BURRS AND SHARP EDGES	CONCENTRICITY MACHINED DIAMETERS .010 P1	DIMENSIONS ARE IN INCHES	TOLERANCES
DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING	IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY	ANGLES ± 1°	3 PLACE DECIMALS ± .010
INTERPRET DRAWINGS IN ACCORDANCE WITH MIL-STD-100		2 PLACE DECIMALS ± .02	

DATE	BY	DATE	BY
1/30/76	[Signature]	2/17/76	[Signature]
2/17/76	[Signature]	2/17/76	[Signature]
2/17/76	[Signature]	2/17/76	[Signature]

TEXAS INSTRUMENTS Equipment Group Dallas, Texas	
CABLE ASSEMBLY, TILINE COUPLER DATA	
SIZE	CODE IDENT NO DRAWING NO
D	96214 946756
SCALE NONE	SHEET

Coupler Data Cable

TEXAS INSTRUMENTS INCORPORATED		DATE 08/14/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0946756-0001		REV D	
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0002	00002.000	EA		0996261-0015	CONNECTOR, RECEPTACLE, 40 POSITION	000779-88476-7					
0002A					P1 P2						
0003	REF	EA		0946770-9901	PROCEDURE, INSTALLATION, SHIELDED CABLE						
0101	00001.000	EA		0946756-5001	BULK CABLE ASSEMBLY MATERIAL FOR -0001						
DRAFTSMAN		DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE				
			<i>J. R. ...</i>	8-17-79			CABLE, TILINE COUPLER DATA				
APPD. MFG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.				
							7506	PART NUMBER LM0946756-0001 REV D			

TEXAS INSTRUMENTS INCORPORATED		DATE 08/14/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0946756-0002		REV D	
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00008.000	FT		0972694-0004	CABLE, FLAT, 40 CONDUCTOR, GND PLANE, DRAIN						
0002	00002.000	EA		0996261-0015	CONNECTOR, RECEPTACLE, 40 POSITION	000779-88476-7					
0002A					P1 P2						
0003	REF	EA		0946770-9901	PROCEDURE, INSTALLATION, SHIELDED CABLE						
DRAFTSMAN		DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE				
							CABLE, TILINE COUPLER DATA				
APPD. MFG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.				
								PART NUMBER LM0946756-0002 REV D			

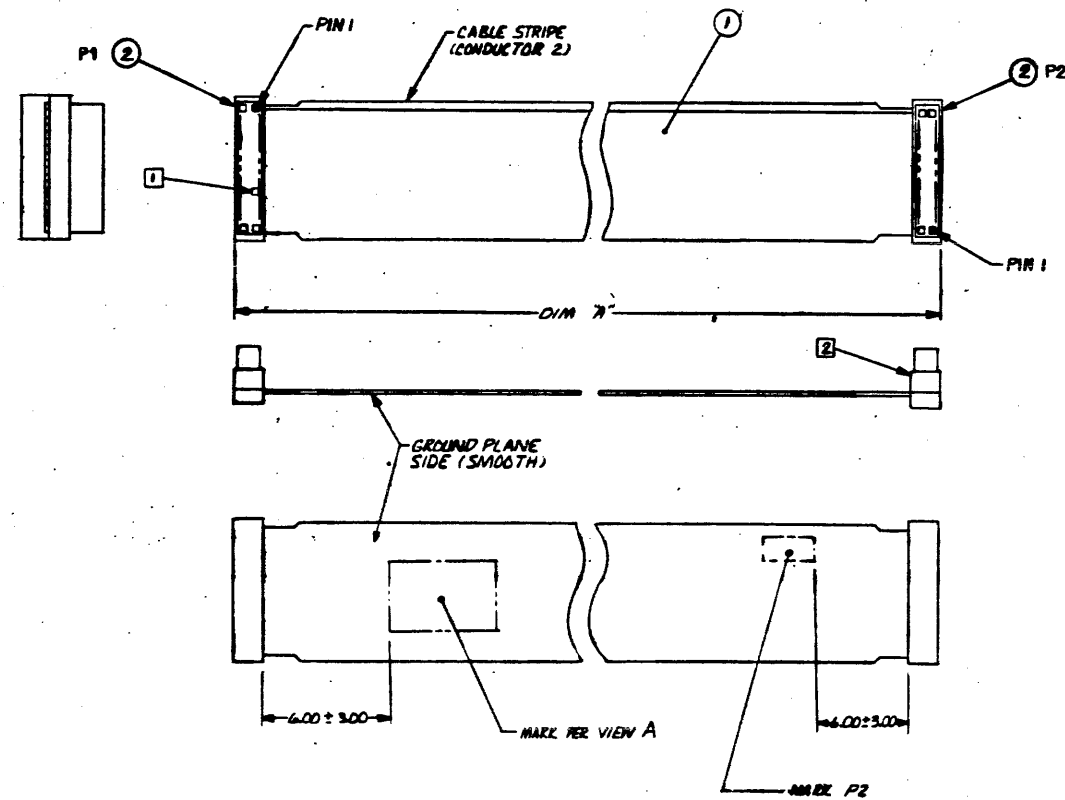
TEXAS INSTRUMENTS INCORPORATED		DATE 08/14/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0946756-0006		REV D	
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00018.000	FT		0972694-0004	CABLE, FLAT, 40 CONDUCTOR, GND PLANE, DRAIN						
0002	00002.000	EA		0996261-0015	CONNECTOR, RECEPTACLE, 40 POSITION	000779-88476-7					
0002A					P1 P2						
0003	REF	EA		0946770-9901	PROCEDURE, INSTALLATION, SHIELDED CABLE						
DRAFTSMAN		DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE				
							CABLE, TILINE COUPLER DATA				
APPD. MFG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.				
								PART NUMBER LM0946756-0006 REV D			

TEXAS INSTRUMENTS INCORPORATED		DATE 08/14/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0946756-5001		REV D	
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00012.000	FT		0972694-0004	CABLE, FLAT, 40 CONDUCTOR, GND PLANE, DRAIN						
DRAFTSMAN		DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE				
							BULK CABLE ASSEMBLY MATERIAL FOR -0001				
APPD. MFG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.				
								PART NUMBER LM0946756-5001 REV D			

**NOTES:**

- 1 PIN GOING TO CONDUCTOR NUMBER 11 IS REMOVED FROM THIS CONNECTOR
- 2 CONNECTOR P2 HAS REVERSED INDEX
- 3 ITEM 101 IN -0001 LM CONSISTS OF BULK CABLE ASSEMBLY MATERIAL.

ZONE	LTN	DESCRIPTION	DATE	APPROVED
A		CN 412133 (C) L.M. (1) L.M. ADDED L.M. 3 - 2 THRU - 6 (2) ADDED MARKINGS ON PART ADDED DIM 7 TABLE	7/22/76	[Signature]
B		CN 420704 (C) L.M. (1) ADDED MARKING VIEW	8-11-76	[Signature]
C		CN 42592 (C) L.M. (1) NOTE 1 WAS PINS GOING TO CONDUCTOR NUMBERS 9 AND 11 ARE REMOVED FROM THIS CONNECTOR, ADDED NOTE 2 (2) ON LM ITEM 2 WAS 972697-2	4-2-79	E. V. [Signature]
D		CN 43378 (C) L.T.H.M. (1) CREATED -5001 LM (2) ADDED ITEM 101 TO -0001 LM (3) ADDED NOTE 3 (4) ADDED PART NO BLOCK	8-26-79	[Signature]
E		CN 450840 (D) L.T.H.M. (1) 2A1-84 ADDED VIEW A (2) CHANGED P1 & P2 MARKINGS (3) ADDED DIMS. (3) PROCESS 1 HGT WAS .09 (4) REVISED CABLE SIDE VIEW	8-10-79	[Signature]



MARK APPROPRIATE DASH  
NO. AND REV. LTZ

945089-000 00 00  
← CABLE VECTOR  
VIEW A

PART NO	DESCRIPTION
945089-5001	BULK CABLE ASSEMBLY MATERIAL FOR -0001
-0006	CABLE, TILINE COUPLER, CONTROL, 216 IN
-0005	CABLE, TILINE COUPLER, CONTROL, 756 IN
-0004	CABLE, TILINE COUPLER, CONTROL, 684 IN
-0003	CABLE, TILINE COUPLER, CONTROL, 548 IN
-0002	CABLE, TILINE COUPLER, CONTROL, 96 IN
945089-0001	CABLE, TILINE COUPLER CONTROL

PART NUMBER	DIM "A"
945089-0001	144.00 ± 0.00
-0002	96.00 ± 0.00
-0003	480.00 ± 0.00
-0004	684.00 ± 0.00
-0005	756.00 ± 0.00
945089-0006	216.00 ± 0.00

**PROCESSES:**  
1. MARK PER F-100 METHOD II CLASS I  
HEIGHT .12 COLOR BLACK

QTY REQD	TEMP NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION																		
<p>UNLESS OTHERWISE SPECIFIED</p> <p>REMOVE ALL BURRS AND SHARP EDGES</p> <p>CONCENTRICITY MACHINED DIAMETERS 0.10 P/R</p> <p>DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING</p> <p>IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY</p> <p>INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100</p>																							
<p>HOLE TOLERANCE</p> <table border="1"> <tr> <td>Ø13</td> <td>Ø15</td> <td>Ø21</td> <td>Ø25</td> <td>Ø31</td> <td>Ø39</td> </tr> <tr> <td>THRU .008</td> <td>THRU .008</td> <td>THRU .008</td> <td>THRU .008</td> <td>THRU .008</td> <td>THRU .008</td> </tr> <tr> <td>.25</td> <td>.25</td> <td>.25</td> <td>.25</td> <td>.25</td> <td>.25</td> </tr> </table>						Ø13	Ø15	Ø21	Ø25	Ø31	Ø39	THRU .008	THRU .008	THRU .008	THRU .008	THRU .008	THRU .008	.25	.25	.25	.25	.25	.25
Ø13	Ø15	Ø21	Ø25	Ø31	Ø39																		
THRU .008	THRU .008	THRU .008	THRU .008	THRU .008	THRU .008																		
.25	.25	.25	.25	.25	.25																		
<p>UNLESS OTHERWISE SPECIFIED</p> <p>DIMENSIONS ARE IN INCHES</p> <p>TOLERANCES</p> <p>ANGLES ±1</p> <p>1 PLACE DECIMALS ±.01</p> <p>2 PLACE DECIMALS ±.02</p>																							
<p>DATE LIST</p> <p>SP. [Signature] 1/29/76</p> <p>[Signature] 2/17/76</p> <p>[Signature] 3/17/76</p> <p>[Signature] 4/17/76</p> <p>[Signature] 5/17/76</p> <p>[Signature] 6/17/76</p> <p>[Signature] 7/17/76</p> <p>[Signature] 8/17/76</p> <p>[Signature] 9/17/76</p> <p>[Signature] 10/17/76</p> <p>[Signature] 11/17/76</p> <p>[Signature] 12/17/76</p>																							
<p>TEXAS INSTRUMENTS</p> <p>ENCLOSURE</p> <p>CABLE ASSEMBLY, TILINE COUPLER CONTROL</p> <p>DATE OF LAST REV. DRAWING NO. D 96214 945089</p>																							

Coupler Control Cable

TEXAS INSTRUMENTS INCORPORATED		DATE 06/18/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0945089-0001		REV E	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0002	00002.000	EA		0996261-0004	CONNECTOR, RECEPTACLE, 20 POS	000779-88377-4					
0002A					P1 P2						
0033	REF	EA		0946770-9901	PROCEDURE, INSTALLATION, SHIELDED CABLE						
0101	00001.000	EA		0945089-5001	BULK CABLE ASSEMBLY MATERIAL FOR -0001						
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE				
APPRO. MFG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.				
			J.R. HALL	6-19-79			7506	CABLE, TILINE COUPLER CONTROL			
								PART NUMBER LM0945089-0001			
								REV E			

TEXAS INSTRUMENTS INCORPORATED		DATE 06/18/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0945089-0002		REV E	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00008.000	FT		0972694-0001	CABLE, FLAT, 20 CONDUCTOR, GND PLANE, DRAIN	000779-88377-4					
0002	00002.000	EA		0996261-0004	CONNECTOR, RECEPTACLE, 20 POS						
0002A					P1 P2						
0003	REF	EA		0946770-9901	PROCEDURE, INSTALLATION, SHIELDED CABLE						
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE				
APPRO. MFG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.				
								CABLE, TILINE COUPLER, CONTROL, 96IN			
								PART NUMBER LM0945089-0002			
								REV E			

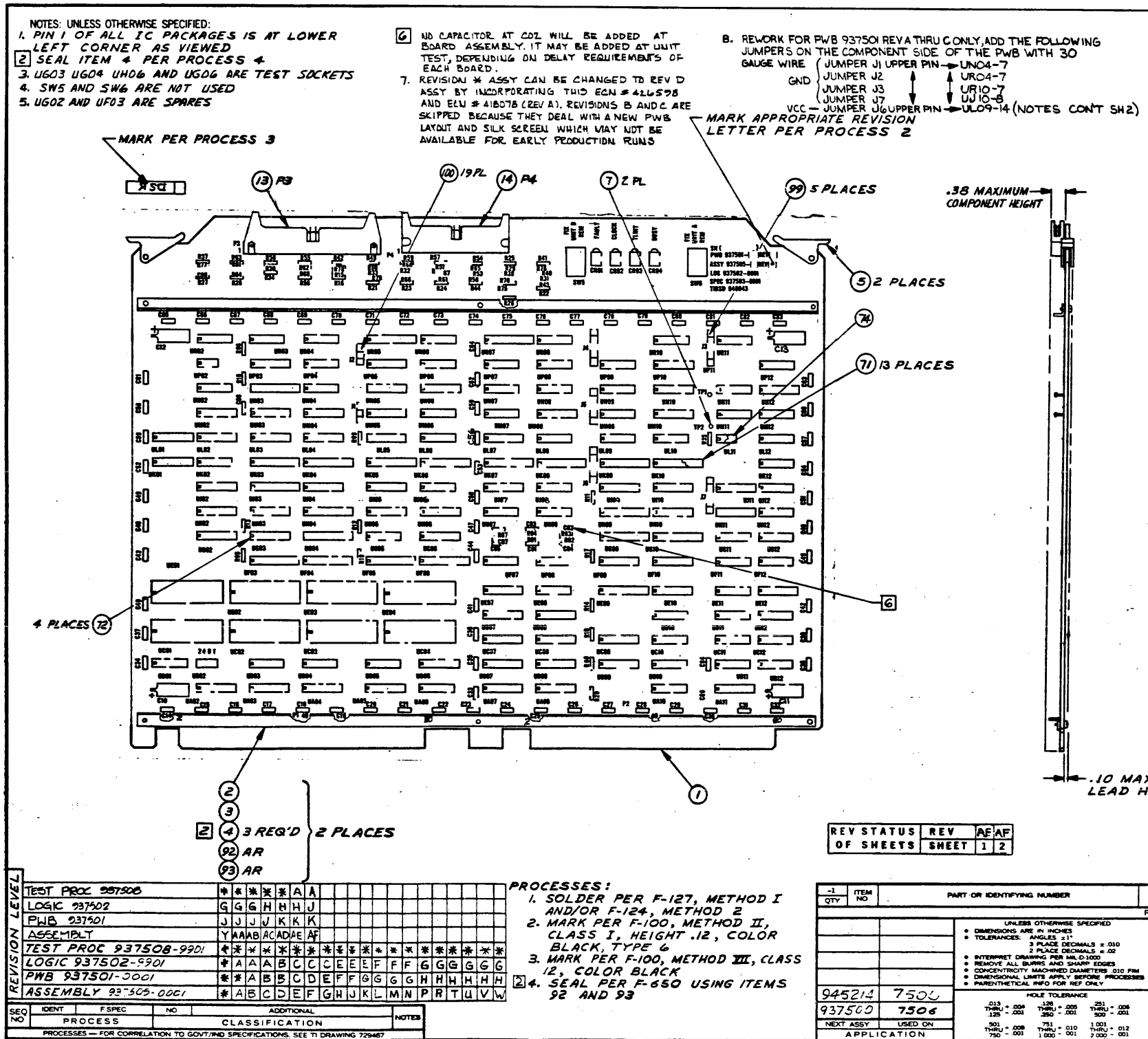
TEXAS INSTRUMENTS INCORPORATED		DATE 06/18/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0945089-0003		REV E	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00040.000	FT		0972694-0001	CABLE, FLAT, 20 CONDUCTOR, GND PLANE, DRAIN	000779-88377-4					
0002	00002.000	EA		0996261-0004	CONNECTOR, RECEPTACLE, 20 POS						
0002A					P1 P2						
0003	REF	EA		0946770-9901	PROCEDURE, INSTALLATION, SHIELDED CABLE						
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE				
APPRO. MFG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.				
								CABLE, TILINE COUPLER, CONTROL, 348IN			
								PART NUMBER LM0945089-0003			
								REV E			

TEXAS INSTRUMENTS INCORPORATED		DATE 06/18/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0945089-0004		REV E	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00057.000	FT		0972694-0001	CABLE, FLAT, 20 CONDUCTOR, GND PLANE, DRAIN	000779-88377-4					
0002	00002.000	EA		0996261-0004	CONNECTOR, RECEPTACLE, 20 POS						
0002A					P1 P2						
0003	REF	EA		0946770-9901	PROCEDURE, INSTALLATION, SHIELDED CABLE						
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE				
APPRO. MFG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.				
								CABLE, TILINE COUPLER, CONTROL, 684IN			
								PART NUMBER LM0945089-0004			
								REV E			

TEXAS INSTRUMENTS INCORPORATED		DATE 06/18/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0945089-0005		REV E		
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00063.000	FT		0972694-0001	CABLE, FLAT, 20 CONDUCTOR, GND PLANE, DRAIN							
0002	00002.000	EA		0996261-0004	CONNECTOR, RECEPTACLE, 20 POS	000779-88377-4						
0002A					P1 P2							
0003	REF	EA		0946770-9901	PROCEDURE, INSTALLATION, SHIELDED CABLE							
DRAFTSMAN		DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CABLE, TILINE COUPLER, CONTROL, 756IN					
APPRO. MFG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM0945089-0005		REV E		

TEXAS INSTRUMENTS INCORPORATED		DATE 06/18/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0945089-0006		REV E		
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00018.000	FT		0972694-0001	CABLE, FLAT, 20 CONDUCTOR, GND PLANE, DRAIN							
0002	00002.000	EA		0996261-0004	CONNECTOR, RECEPTACLE, 20 POS	000779-88377-4						
0002A					P1 P2							
0003	REF	EA		0946770-9901	PROCEDURE, INSTALLATION, SHIELDED CABLE							
DRAFTSMAN		DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CABLE, TILINE COUPLER, CONTROL, 216IN					
APPRO. MFG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM0945089-0006		REV E		

TEXAS INSTRUMENTS INCORPORATED		DATE 06/18/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0945089-5001		REV E		
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00012.000	FT		0972694-0001	CABLE, FLAT, 20 CONDUCTOR, GND PLANE, DRAIN							
DRAFTSMAN		DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE BULK CABLE ASSEMBLY MATERIAL FOR -0001					
APPRO. MFG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM0945089-5001		REV E		



REV	DESCRIPTION	DATE	APPROVED
A	CN418078 (C) W. Lyone (1) UPDATED REVISION LEVEL BLOCK	7-27-77	J. L. R...
B	CN418078 (C) G. Waller (1) QTY OF ITEM 75 WAS 71 (2) UPDATED REV LEVEL BLOCK (3) RELOCATED TP2	8/29/77	J. L. R...
C	CN418078 (D) G. Waller (1) UPDATED ASSY DWG PER NEW SILK SCREEN (2) UPDATED REV LEVEL BLOCK	8/29/77	J. L. R...
D	CN426598 (2) G. Waller (1) ON LM ITEM 32 QTY WAS 7 (2) ON LM DELETE ITEM 32 & B2A (3) ITEM 45 PN WAS 936410-0002 (4) ADDED ITEM 105 (5) ADDED NOTES 6 AND 7 (6) UPDATED REV LEVEL BLOCK	8/29/77	J. L. R...
E	CN424827 (C) H. Lyone (1) ADDED TOP BRACKET TO FRONT VIEW (2) REV PICTORIAL TO AGREE WITH REV C PWB (3) ITEM 84 WAS 939370-0338 (4) ITEMS 71883 QTY WAS 6 & 3 RE-SP (5) ADDED ITEMS 106 & 107 (6) DELETED TOOLING MARKS (7) UPDATED REV LEVEL BLOCK	3-21-78	J. R. R...
F	CN426374 (C) H. Lyone (1) ADDED NOTE 8 (2) UPDATED REV LEVEL BLOCK	3-21-78	J. R. R...
G	CN426235 (B) H. Lyone (1) ADDED SH2 (2) ADDED NOTE 9 (3) UPDATED REV LEVEL BLOCK	3-21-78	J. R. R...
H	CN426312 (B) H. Lyone (1) ADDED NOTE 10 (2) UPDATED REV LEVEL BLOCK	6-9-78	J. R. R...
J	CN426322 (E) H. Lyone (1) LM: PN OF ITEM 94 WAS 937504-001; ITEM 95 WAS 937504-002; ITEM 96 WAS 937504-003; ITEM 97 WAS 937504-004; ITEM 98 WAS 937504-005; (2) UPDATED REV LEVEL BLOCK	6-9-78	J. L. R...
K	CN426417 (C) H. Lyone (1) PIN NOS 2 & 3 WERE 78 & 1 RESR (2) UPDATED REV LEVEL BLOCK	7-26-78	J. R. R...
L	CN442301 (D) B. Lyone (1) ON LM ITEM 100 PN WAS 93742-1 (2) UPDATED REV LEVEL BLOCK	9-28-78	J. R. R...
M	CN446473 (D) R. Lyone (1) LM AND F/D DELETED ITEM 106 (2) UPDATED REV LEVEL BLOCK	12-20-78	E. Wing
N	CN446667 (C) R. Lyone (1) UPDATED REV LEVEL BLOCK (2) SH2; ADDED NOTE 11	12-6-78	E. Wing
P	CN441743 (C) E. Lyone (1) CREATED LM FOR -5001 (2) ON LM -0001 ADDED ITEM 108 (3) UPDATED REV LEVEL BLOCK	3-22-79	J. R. R...
R	CN448751 (B) E. Lyone (1) ON LM -0001 ITEM 94 WAS -6, ITEM 95 WAS -7, ITEM 96 WAS -8, ITEM 97 WAS -9, ITEM 98 WAS -10 (2) NOTE 10 WAS ... PERFORM REWORK AFTER AT5 TEST ... (3) ADDED NOTE 12 (4) UPDATED REV LEVEL BLOCK	3-22-79	J. R. R...
T	CN4451957 (C) J. Lyone (1) -0001 LM ITEM 3 WAS 936410-0001 (2) UPDATED REV STATUS BLOCK	5-2-79	E. Wing
U	CN441735 (C) J. Lyone (1) ON -6001 LM ITEM 43 WAS 932900-7279, ITEM 56 WAS 932900-7195 (2) UPDATED REV LEVEL BLOCK	5-2-79	E. Wing
V	CN448774 (C) J. Lyone (1) ON -0001 LM, ITEM 84 WAS -0327 (2) UPDATED REV LEVEL BLOCK	5-24-79	E. Wing

937505-5001 AUTO-INSERTED PARTS LIST FOR 937505-0001		
937505-0001	DISK CONTROLLER, 10 MEGA BYTE	
PART NO	DESCRIPTION	

REV STATUS OF SHEETS	REV	AE/AF
SHEET	1	2

REVISION LEVEL																				
TEST PROC 937506	*	*	*	*	A															
LOGIC 937502	G	G	G	H	H	H	J													
PWB 937501	J	J	J	K	K	K														
ASSEMBLT	Y	A	A	B	C	A	A	F												
TEST PROC 937508-9901	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
LOGIC 937502-9901	*	A	A	B	C	C	E	E	E	F	F	F	G	G	G	G	G	G	G	
PWB 937501-0001	*	A	B	C	D	E	F	F	G	G	G	H	H	H	H	H	H	H	H	
ASSEMBLY 937505-0001	*	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	T	U	V	
SEQ NO	IDENT	F SPEC	INC	ADDITIONAL	NOTES															
	PROCESS	CLASSIFICATION																		

PROCESSES:

- SOLDER PER F-127, METHOD I AND/OR F-124, METHOD 2
- MARK PER F-100, METHOD II, CLASS I, HEIGHT .12, COLOR BLACK, TYPE 6
- MARK PER F-100, METHOD III, CLASS II, COLOR BLACK
- SEAL PER F-650 USING ITEMS 92 AND 93

-1 ITEM QTY		PART OR IDENTIFYING NUMBER		NOMENCLATURE OR DESCRIPTION		PROCUREMENT SPECIFICATION		NOTES	
945214	7506								
937500	7506								
NEXT ASSY	USED ON	APPLICATION		HOLE TOLERANCE		DIMENSIONS ARE IN INCHES		UNLESS OTHERWISE SPECIFIED	
				DIMENSIONS: ANGLES ±1° 3 PLACE DECIMALS ±0.10 2 PLACE DECIMALS ±0.02 INTERPRET DRAWING PER MIL-D-1000 REMOVE ALL BURRS AND SHARP EDGES CONCENTRICITY MACHINED DIAMETERS 0.10 FIM DIMENSIONAL LIMITS APPLY BEFORE PROCESSES PARENTHETICAL INFO FOR REF ONLY		TEXAS INSTRUMENTS INCORPORATED Dallas, Texas  <b>DISK CONTROLLER,          10 MEGA BYTE</b>  DRAWING NO: 937505 SHEET 1 OF 2			

(NOTES CONT)

- 9. REWORK FOR PWB 937501 REV A THRU D ONLY
  - A) LIFT PIN 12 ON CHIP E10
  - B) LIFT PIN 4 ON CHIP JOB
  - C) ADD A WIRE FROM E10 PIN 12 (CHIP-NOT CONNECTED TO BOARD) TO THE PAD AT JOB PIN 4 (WHERE THE PIN HAD BEEN REMOVED).
  - D) ADD A WIRE FROM JOB PIN 4 (CHIP-NOT CONNECTED TO BOARD) TO THE PAD AT E10 PIN 12 (WHERE THE PIN HAD BEEN REMOVED).
- 10. REWORK FOR PWB 937501 REV E THRU J ONLY: (USE 30AWG WIRE)
  - A) LIFT UC12 PIN 9. ADD WIRE FROM UC12 PIN 9 (RAISED PIN) TO UK12 PIN 6.
  - B) ADD WIRE FROM UK12 PIN 3 TO UK12 PIN 4. ADD WIRE FROM UH05 PIN 8 TO UK12 PIN 5.
  - C) PERFORM REWORK BEFORE A.T.S.
- 11. REWORK FOR PWB 937501 REV K THRU J ONLY:
  - A) CUT PINS 3 AND 4 ON CHIP UPD 7
  - B) ON COMPONENT SIDE OF PWB, ADD WIRE FROM UH05 PIN 2 TO UP07 PIN 4 (ETCH PAD)
- 12. REWORK PROCEDURE FOR ASSY 937505 REV P AND EARLIER:
  - A) RDM PART NUMBERS 937504-8-9 AND -10 ARE SUBSTITUTABLE FOR 937504-15-16 AND -17 RESPECTIVELY. 937504-6 AND -7 MUST BE REPLACED WITH 937504-13 AND -14 TO DETECT RATE ERRORS ON A READ COMMAND.
- 13. ITEM 10B IN -0001 LM CONSISTS OF COMPONENTS WHICH ARE AUTO-INSERTED AND CONTAINED IN THE -5001 LM
- 14. JUMPER PLUG CONFIGURATION TO BE DETERMINED AT U.T. PER OPERATORS MANUAL.
- 15. REWORK FOR ASSY REV. AA AND EARLIER. REMOVE C05 AT LOCATION G07 AND INSTALL A 1200 PF CAP (ITEM 109) P.N. 972753-0001 AT THIS LOCATION.

REVISIONS				
ZONE	LYR	DESCRIPTION	DATE	APPROVED
	W	CN 433309 (C) - (1) SHEET 1 ZN D4 WAS QTY 6 (2) ON-2001 L/M ITEM 99 QTY WAS 6 (3) UPDATED REV LEVEL BLOCK	8-1-79	E. Wing
	Y	CN 433358 (D) - (1) (1) UPDATED REVISION LEVEL BLOCK	9-5-79	E. Wing
	AA	CN 433369 (D) - (1) ADDED NOTE 14 (2) UPDATED REVISION LEVEL BLOCK.	10-5-79	J. R. Poff
	AB	CN 433314 (B) - (1) ADDED NOTE 15 (2) UPDATED REVISION LEVEL BLOCK	10-5-79	J. R. Poff
	AC	CN 437960 (C) - (1) ON -0001 LM PIN ITEM 103 WAS 972944-0043 (2) CHANGED NOTE 10 (3) UPDATED REV LEVEL BLOCK	9-18-80	J. R. Poff
	AD	CN 437966 (D) - (1) CHANGED REWORK NOTES 10 & 11 TO REFLECT REV K THRU J ONLY (2) REWORK NOTE 12 WAS REWORK ... PWB 937501 REV. H ... COMMAND (3) UPDATED REV LEVEL BLOCK (4) CORRECTED REV LEVEL BLOCK FOR LOGIC TO REV G FOR ASSY AT REV AS (5) ON SHT 1 END-4 REMOVED PARSIDE FROM MARKING NOTE	9-18-80	J. R. Poff
	AE	CN 437987 (E) - (1) UPDATED REV LEVEL BLOCK		
	AF	CN 437990 (F) - (1) ON L.M. SH 1 (1-5001) QTY ITEM 25 WAS 2, AND DELETED UPO9 FROM ITEM 25A (2) UPDATED REV LEVEL BLOCK		

DATE: 11 AUG 21 1979	REV: 1	PROJ NO: D96214	DRAWING NO: 937505	REV: AE
SCALE: 3-21-78				SHEET 2



TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		DATE 03/31/80		PAGE 1 of		PART NUMBER LM0937505-0001		REV AF		
PRINT ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0002	00002.000	EA		0945239-0001	BRACKET-STIFFENER, PWB, 141A							
0003	00002.000	EA		0944954-0001	INSULATOR, PWB, 141A							
0004	00006.000	EA		0972988-0003	SCREW 2-56 X .250 PAN HEAD CRES							
0005	00002.000	EA		0533844-0001	EJECTOR, NYLON, NON-LOCKING, PWB							
0007	00002.000	EA		0235794-0050	TERMINAL 12808	SEE TI- DRAWING						
0007A					TP1 TP2							
0008	REF	EA		0937502-9901	LOGIC DIAGRAM, DISK CONT, 10 MEGA BYTE							
0009	REF	EA		0937503-9901	SPECIFICATION, DISK CONT, 10 MEGA BYTE							
0010	REF	EA		0937508-9901	T.P., UNIT, DISK CONT, 10 MEGA BYTE							
0013	00001.000	EA		0972137-0010	CONNECTOR, P.C. HEADER 50 CONTACTS	BE1 - 65483-020						
0013A					P3							
0014	00001.000	EA		0972706-0005	HEADER, CONN, RIGHT ANGLE, 40 CONTACTS	075037-3495-1002						
0014A					P4							
0015	00001.000	EA		0972537-0001	DIODE, LED 550-0103 50 MA 3 V	DIA --550-0103						
0015A					CR01							
0016	00003.000	EA		0972537-0002	DIODE, LED GREEN RT ANGLE	072619-550-0206						
0016A					CR02 CR03 CR04							
0017	00001.000	EA		0996059-0013	OSCILLATOR, RF, CRYSTAL 5.000MHZ 0.01%	001537-K-1100 A						
0017A					UP11							
0040	00002.000	EA		0996089-0001	IC, SN74LS240N, LINE DRIVERS	001295-SN74LS240N						
DRAFTSMAN		DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	DISK CONTROLLER, 10 MEGA BYTE				
APPRO. MFG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	7506				
								PART NUMBER LM0937505-0001				
								REV AF				

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		DATE 03/31/80		PAGE 2 of		PART NUMBER LM0937505-0001		REV AF		
PRINT ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0040A					UHQ4 UN03							
0042	00002.000	EA		0996089-0004	IC, SN74LS244N LINE DRIVER	-SN74LS244N						
0042A					UR05 UR07							
0044	00001.000	EA		0996307-0001	IC, SN74S373, OCTAL D. FLIPFLOP	TI -SN74S373						
0044A					UE09							
0045	00003.000	EA		0996201-0001	IC, SN74S374N, EDGE-TRIGGERED FLIP-FLUPS	TI -SN74S374N						
0045A					UF04 UJ03 UK06							
0046	00001.000	EA		0222222-7497	NETWORK SN7497N							
0046A					UJ07							
0057	00004.000	EA		0996564-0001	IC, SN74S225N 16 X 5-BIT FIFO MEMORY	001295-SN74S225N						
0057A					UK03 UK04 UK05 UK07							
0064	00003.000	EA		0996102-0001	IC, SN74S482N MICRO-ADDRESS GENERATOR	TI -SN74S482N						
0064A					UG09 UG10 UH09							
0066	00008.000	EA		0974859-0001	NETWORK, BI-POLAR 2BIT PROCESSOR -3002							
0066A					UC01 UC02 UC03 UC04 UE01							
0066B					UE02 UE03 UE04							
0070	00001.000	EA		0972899-0004	NETWORK, DUAL STATIC SHIFT REGISTER 132B	001295-TMS3129NC						
0070A					UL11							
0071	00013.000	EA		2210188-0005	SOCKET, LGW PROFILE, DIP, 20 PINS	003612-DIL20P-108						
0071A					XUF05 XUF06 XUK09 XUK10							
DRAFTSMAN		DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	DISK CONTROLLER, 10 MEGA BYTE				
APPRO. MFG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	LM0937505-0001				
								PART NUMBER LM0937505-0001				
								REV AF				

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		DATE 03/31/80		PAGE 3 of		PART NUMBER LM0937505-0001		REV AF		
PRINT ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0071B					XUK08 XUG04 XUG09 XUG10							
0071C					XUH09 XUK03 XUK04 XUK05							
0071D					XUK07							
0072	00004.000	EA		2210188-0003	SOCKET, LOW PROFILE, DIP, 16 CONT	003612-DIL16P-108						
0072A					XUG03 XUG06 XUH06 XUJ07							
0074	00001.000	EA		2210188-0001	SOCKET, LOW PROFILE, DIP, 3 CONT, 8 PINS	003612-DIL8P-108						
0074A					XUL11							
0075	00072.000	EA		0972763-0021	CAP., FIXED, AXIAL LEAD, .047 UF, +80%, -20%							
0075A					C08 C14 THRU C84							
0076	00001.000	EA		0972927-0041	CAP FIX MICA 500V 390 PF 5 %	CMR05E-391J00						
0076A					C09							
0078	00002.000	EA		0972927-0044	CAP FIX MICA 300V 510 PF 5 %	WPL -LM05F511J00						
0078A					C01 C07							
0079	00001.000	EA		0972929-0433	CAP FIX CERAMIC .100 UF 10 % 50 V	WPL -M39014/01-1433						
0079A					C06							
0080	00001.000	EA		0972929-0415	CAP FIX CERAMIC .010 UF 10 % 100 V	WPL -M39014/01-1415						
0080A					C04							
0081	00001.000	EA		0972927-0048	CAP FIX MICA 300V 750 PF 5 %	WPL -LM05F751J00						
0081A					C03							
0083	00001.000	EA		0539370-0339	RES FIX FILM 332 OHM 1% .25 WATT	COM -NA550-100PPM/L						
DRAFTSMAN		DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	DISK CONTROLLER, 10 MEGA BYTE				
APPRO. MFG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	LM0937505-0001				
								PART NUMBER LM0937505-0001				
								REV AF				

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		DATE 03/31/80		PAGE 4 of		PART NUMBER LM0937505-0001		REV AF		
PRINT ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0083A					R04							
0084	00001.000	EA		0539370-0334	RES FIX FILM 294 OHM 1% .25 WATT	COM - NA55						
0084A					R01							
0085	00001.000	EA		0539370-0337	RES FIX FILM 316 OHM 1% .25 WATT	COM -NA550-100PPM/L						
0085A					R03							
0086	00002.000	EA		0539370-0498	RES FIX FILM 15.0K OHM 1% .25 WATT	COM - NA55						
0086A					R06 R10							
0087	00001.000	EA		0539370-0453	RES FIX FILM 5.11K OHM 1% .25 WATT	COM - NA55						
0087A					R02							
0088	00012.000	EA		0539370-0385	RES FIX FILM 1.00K OHM 1% .25 WATT	COM - NA55						
0088A					R05 R08 R09 R11 R12 R13 R14							
0088B					R17 R18 R19 R20 R35							
0089	00004.000	EA		0539370-0332	RESISTOR, 280 OHMS .25W 1% FA METAL FILM U10299-NA55 100PPM/L							
0089A					M21 M22 M23 M24							
0090	00001.000	EA		0772923-0001	SWITCH DUAL IN LINE, 4 POSITION	AMP -435166-2						
0090A					UB02							
0092	00000.001	QT		0415804-0005	SEALING COMPOUND, ANAEROBIC-BLUE GRADE C							
0093	00000.001	TU		0415804-0011	SURFACE PRIMER, COMPOUND GRADE I YELLOW							
0094	00001.000	EA		0937504-0013	PROM, CONTNUL, 10 MEGA BYTE CONT, NUMBER 1							
0094A					UF05							
DRAFTSMAN		DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	DISK CONTROLLER, 10 MEGA BYTE				
APPRO. MFG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	LM0937505-0001				
								PART NUMBER LM0937505-0001				
								REV AF				

Controller Assembly

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 5 of		PART NUMBER LM0937505-0001		REV AF	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0095	00001.000	EA		0937504-0014	PROM, CONTROL, 10 MEGA BYTE CONT, NUMBER 2				
0095A					UF06				
0096	00001.000	EA		0937504-0015	PROM, CONTROL, 10 MEGA BYTE CONT, NUMBER 3				
0096A					UK09				
0097	00001.000	EA		0937504-0016	PROM, CONTROL, 10 MEGA BYTE CONT, NUMBER 4				
0097A					UK10				
0098	00001.000	EA		0937504-0017	PROM, CONTROL, 10 MEGA BYTE CONT, NUMBER 5				
0098A					UK08				
0099	00005.000	EA		0972713-0001	PLUG, JUMPER, I.C., 0.300 INCH				
0099A					J3 J4 J5 J6 J7				
0100	00019.000	EA		0996864-0001	CONNECTOR, SOCKET PCB	022526-75060-007			
0101	00004.000	EA		0972924-0011	CAP FIX TANT SOLID 68 MFD 10 & 15 VOLT CPL	-M39003/1-2274			
0101A					C10 C11 C12 C13				
0103	00023.000	EA		0972946-0047	RES FIX 180 OHM 5 & .25 IN CARBON FILM	R08 - R-25			
0103A					R15 R16 R25 THRU R27 R29				
0103B					THRU R34 R37 R39 THRU R44				
0103C					R49 R44 R17 R79 R81				
0104	00023.000	EA		0972946-0052	RES FIX 300 OHM 5 & .25 IN CARBON FILM	R08 - R-25			
0104A					R28 R50 R51 R53 THRU R63				
0104B					R65 THRU R67 R69 R70 R75				
DRAFTSMAN: DATE: CED DRAFTSMAN: DATE: DESIGN ENGINEER: DATE: TITLE: DISK CONTROLLER, 10 MEGA BYTE APPR. MFG: DATE: APPR. PROJECT ENGINEER: DATE: RELEASED: DATE: PROJECT NO.: PART NUMBER: LM0937505-0001 REV: AF									

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 6 of		PART NUMBER LM0937505-0001		REV AF	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0104C					R76 R78 R80				
0107	00002.000	EA		0539370-0349	RES FIX FILM 422 OHM 1/8 .25 WATT	COM - NA55			
0107A					R07 R38				
0108	00001.000	EA		0937505-5001	AUTO-INSERTED PARTS LIST FOR 937505-0001				
0109	00001.000	EA		0972753-0021	CAP., 1200PF, 2%, 25V, CERAMIC, AX-LEAD				
0109A					C05				
DRAFTSMAN: DATE: CED DRAFTSMAN: DATE: DESIGN ENGINEER: DATE: TITLE: DISK CONTROLLER, 10 MEGA BYTE APPR. MFG: DATE: APPR. PROJECT ENGINEER: DATE: RELEASED: DATE: PROJECT NO.: PART NUMBER: LM0937505-0001 REV: AF									

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0937505-5001		REV AF	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0001	00001.000	EA		0937501-0001	PWB, DISK CONTROLLER, 10 MEGA BYTE				
0018	00001.000	EA		0240000-7400	NETWORK-SN74H00M				
0018A					UF08				
0019	00003.000	EA		0972900-7402	NETWORK, SN74LS02M				
0019A					UC11 UE11 UF11				
0020	00001.000	EA		0219402-7404	NETWORK SN74S04N				
0020A					UJ08				
0021	00003.000	EA		0222222-7406	NETWORK SN7406N				
0021A					UR03 UR04 UR06				
0022	00002.000	EA		0222222-7407	NETWORK-SN7407N	TI - -SN7407N			
0022A					UG05 UH07				
0023	00002.000	EA		0972749-0001	NETWORK, SN74LS08N				
0023A					UL09 UM12				
0024	00001.000	EA		0219402-7408	NETWORK SN74S08N	TI - -SN74S08N			
0024A					UC10				
0025	00001.000	EA		0972900-7410	NETWORK SN74LS10N				
0025A					UL10				
0026	00001.000	EA		0240000-7411	NETWORK-SN74H11N				
0026A					UB12				
0027	00008.000	EA		0972784-0002	NETWORK SN74LS14N				
DRAFTSMAN: DATE: CED DRAFTSMAN: DATE: DESIGN ENGINEER: DATE: TITLE: AUTO-INSERTED PARTS LIST FOR 937505-0001 APPR. MFG: DATE: APPR. PROJECT ENGINEER: DATE: RELEASED: DATE: PROJECT NO.: PART NUMBER: LM0937505-5001 REV: AF									

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM0937505-5001		REV AF	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0027A					UA10 UF12 UL06 UL08 UM07				
0027B					UP07 UR08 UB01				
0028	00001.000	EA		0972813-0001	NETWORK-SN74LS21N				
0028A					UP12				
0029	00001.000	EA		0972814-0001	NETWORK-SN74LS27N				
0029A					UR10				
0030	00001.000	EA		0972900-7430	NETWORK SN74LS30N	TI - -SN74LS30N			
0030A					UN02				
0031	00003.000	EA		0972900-7432	NETWORK SN74LS32N	TI - -SN74LS32N			
0031A					UB11 UD10 UK12				
0032	00001.000	EA		0222222-7438	NETWORK SN7438N				
0032A					UR02				
0033	00001.000	EA		0972900-7451	NETWORK SN74LS51N	TI - -SN74LS51N			
0033A					UN09				
0034	00001.000	EA		0240000-7451	NETWORK-SN74H51N				
0034A					UH12				
0035	00010.000	EA		0972900-7474	NETWORK SN74LS74N				
0035A					UB10 UC11 UL12 UM04 UN07				
0035B					UN11 UP04 UP06 UP08 UK11				
0036	00001.000	EA		0219402-7474	NETWORK SN74S74N				
DRAFTSMAN: DATE: CED DRAFTSMAN: DATE: DESIGN ENGINEER: DATE: TITLE: AUTO-INSERTED PARTS LIST FOR 937505-0001 APPR. MFG: DATE: APPR. PROJECT ENGINEER: DATE: RELEASED: DATE: PROJECT NO.: PART NUMBER: LM0937505-5001 REV: AF									

TEXAS INSTRUMENTS INCORPORATED		DATE 03/31/80		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM0937505-5001		REV AF	
REV. ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0036A					UM09						
0037	00001.000	EA		0972900-7109	NETWORK SN74LS109N	TI	-SN74LS109N				
0037A					UN12						
0038	00006.000	EA		0972782-0001	NETWORK SN74LS132N	TI	-SN74LS132N				
0038A					UC12 UF07 UJ06 UJ12 UM11						
0038B					UN08						
0039	00003.000	EA		0972900-7174	NETWORK SN74LS174N						
0039A					UF09 UJ05 UP03						
0041	00004.000	EA		0996588-0002	IC, QUADRUPLE BUS TRANSCEIVER SN74LS243N	021955-N74LS243N					
0041A					UA06 UB03 UB04 UB05						
0043	00001.000	EA		0972667-0001	NETWORK, SN74LS279N						
0043A					UE12						
0047	00002.000	EA		0972900-7138	NETWORK SN74LS138N	TI	-SN74LS138N				
0047A					UM08 UN10						
0048	00001.000	EA		0219402-7138	NETWORK SN74S138N						
0048A					UE10						
0049	00002.000	EA		0219402-7139	NETWORK SN74S139N						
0049A					UJ11 UM10						
0050	00001.000	EA		0222222-7148	NETWORK SN74LS148N						
0050A					UF10						
DRAFTSMAN DATE CED DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE											
AUTO-INSERTED PARTS LIST FOR 937505-0001											
APPRO. MFG. DATE APPD. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV											
LM0937505-5001 AF											

TEXAS INSTRUMENTS INCORPORATED		DATE 03/31/80		LIST OF MATERIAL		PAGE 4 of		PART NUMBER LM0937505-5001		REV AF	
REV. ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0051	00001.000	EA		0972900-7153	NETWORK SN74LS153N	TI	-SN74LS153N				
0051A					UN06						
0052	00001.000	EA		0219402-7153	NETWORK SN74S153N	TI	-SN74S153N				
0052A					UE07						
0053	00013.000	EA		0972686-0001	NETWORK-QUAD MULTIPLEXER, SN74LS157N						
0053A					UA07 UA11 UB06 UB07 UB08						
0053B					UH03 UH10 UJ04 UJ10 UL02						
0053C					UM02 UM05 UN05						
0054	00003.000	EA		0972669-0001	NETWORK, SN74LS163N						
0054A					UH05 UL05 UP10						
0055	00003.000	EA		0219402-7182	NETWORK SN74S182N	TI	-SN74S182N				
0055A					UC07 UD07 UC08						
0056	00004.000	EA		0994427-0001	IC, SN74LS195AM 4-BIT PARALLEL-ACCESS	001295-SN74LS195AM					
0056A					UL03 UL04 UM03 UM04						
0058	00004.000	EA		0996136-0002	IC, SN74LS258N, DATA SELECTORS/MULTIPLEXER	TI	-SN74LS258N				
0058A					UH02 UJ02 UK01 UL01						
0059	00002.000	EA		0996023-0001	IC, LOW POWER SCHOTTKY 8 BIT SN74LS259N	TI	-SN74LS259N				
0059A					UH11 UP05						
0060	00001.000	EA		0972159-7265	NETWORK, SN74265N						
0060A					UL07						
DRAFTSMAN DATE CED DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE											
AUTO-INSERTED PARTS LIST FOR 937505-0001											
APPRO. MFG. DATE APPD. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV											
LM0937505-5001 AF											

TEXAS INSTRUMENTS INCORPORATED		DATE 03/31/80		LIST OF MATERIAL		PAGE 5 of		PART NUMBER LM0937505-5001		REV AF	
REV. ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0061	00001.000	EA		0947573-0001	PROM, 32X8, 800LEAK, NTC NO. 1						
0061A					UJ09						
0062	00001.000	EA		0972787-0004	NETWORK SN74LS368N						
0062A					UA05						
0063	00002.000	EA		0219402-7157	NETWORK SN74S157N						
0063A					UC08 UC09						
0065	00002.000	EA		0974674-0001	NETWORK SN75138N						
0065A					UA08 UB09						
0067	00001.000	EA		0974866-0001	NETWORK, CRC GENERATOR	FCD	-9401				
0067A					UM06						
0068	00001.000	EA		0972188-0001	NETWORK, ME555V, MONOLITHIC TIMING, LINEAR	SI	-ME555V				
0068A					UP02						
0069	00003.000	EA		0974849-0001	NETWORK, DM8136						
0069A					UA02 UA03 UA04						
0073	00001.000	EA		0240000-7474	NETWORK-SN74H74N						
0073A					UD12						
0077	00003.000	EA		0972900-7420	NETWORK SN74LS20N						
0077A					UD11 UE08 UK02						
0102	00001.000	EA		0219402-7432	NETWORK SN74S32N	TI-	-SN74S32N				
0102A					UG12						
DRAFTSMAN DATE CED DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE											
AUTO-INSERTED PARTS LIST FOR 937505-0001											
APPRO. MFG. DATE APPD. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV											
LM0937505-5001 AF											

TEXAS INSTRUMENTS INCORPORATED		DATE 03/31/80		LIST OF MATERIAL		PAGE 6 of		PART NUMBER LM0937505-5001		REV AF	
REV. ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0105	00001.000	EA		0222222-7132	NETWORK SN74132N						
0105A					UH08						
0110	00001.000	EA		0219402-7410	NETWORK SN74S10N						
0110A					UP09						
DRAFTSMAN DATE CED DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE											
AUTO-INSERTED PARTS LIST FOR 937505-0001											
APPRO. MFG. DATE APPD. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV											
LM0937505-5001 AF											

NOTES: CONTINUED

- 6 JUMPER INSTALLED TO ALLOW THE CONTROLLER TO RUN LONG SELF DIAGNOSTIC TEST ON POWER UP TO BE USED BY UNIT TEST ONLY.
- 7 SWITCH 5 AND 6 ARE NORMALLY NOT INSTALLED ON BOARD BUT MAY BE ADDED AS OPTION LATER.
- 8 THIS JUMPER (J5) IS USED TO INVERT THE PHASE OF THE WRITE CLOCK IF NEEDED.
- 9 J3, J4, J6, AND J7 ARE INSTALLED AS SHOWN AND ARE USED TO CHANGE THE DATA INTERFACE FROM A 10 MEGA BYTE DRIVE TO A 20 MEGA BYTE DRIVE.
- 10 THIS CAPACITOR IS OMITTED AT ASSEMBLY AND MAY BE ADDED AT UNIT TEST ON TIMING REQUIREMENTS.
- 11 RESISTOR VALUES 100 OHMS
- 12 RESISTOR VALUES 300 OHMS

NOTES: UNLESS OTHERWISE SPECIFIED

- 1. ALL DEVICE TYPES PREFIXED WITH SN74
- 2. GROUND IS APPLIED TO PIN 7 OF ALL 14 PIN IC'S, PIN 8 OF ALL 16-PIN IC'S, PIN 10 OF ALL 20-PIN IC'S, AND PIN 14 OF ALL 28-PIN IC'S.
- 3. VCC IS APPLIED TO PIN 14 OF ALL 14-PIN IC'S, PIN 16 OF ALL 16-PIN IC'S, PIN 20 OF ALL 20-PIN IC'S, AND PIN 28 OF ALL 28-PIN IC'S.
- 4. DEVICE TYPE, PIN NUMBERS, AND LOCATION OF IC IS SHOWN AS FOLLOWS:



00 AND 04 = DEVICE TYPE  
 4 5 AND 6 = PIN NUMBERS  
 B06 AND C10 = LOCATION; FIRST LETTER DENOTES ROW, SECOND AND THIRD DIGITS DENOTE COLUMN. IC IS LOCATED AT THE INTERSECTION OF ROW AND COLUMN. ALL LOCATIONS ARE PREFIXED ON THE ASSEMBLY SILKSCREEN BY THE LETTER 'U'.  
 5. ALL RESISTORS ARE 1/4 WATT.

REVISIONS			
ZONE	LTR	DESCRIPTION	DATE
	A	SD data (1) REVISED W/CHANGE	
	B	SD data (1) REVISED W/CHANGE	
FORMAL RELEASE			
	C	CU424830 (C) A. D. Miller	1/9/77
	D	CN428503 (C) A. D. Miller	4-4-75
	E	CN428311 (E) H. Miller	5-2-75
	F	CU442697 (C) A. D. Miller	8-18-75
	G	CN446664 (C) B. Miller	11-4-78
	H	CN437962 (E) G. Miller	3-18-80
	J	CN437992 (E) C. Miller	4-1-80

REVISION STATUS OF SHEETS	REV	J	H	H	H	H	C	C	H	C	H	D	H	D	B	H	C	J	J	B	C	B
SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22

QTY	REQD	ITEM NO	CODE	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROUREMENT SPECIFICATION

PARTS LIST	
DATE	DATE
2-6-77	9-6-77
9-9-77	9-9-77
1/1/77	9-9-77
9-9-77	9-9-77

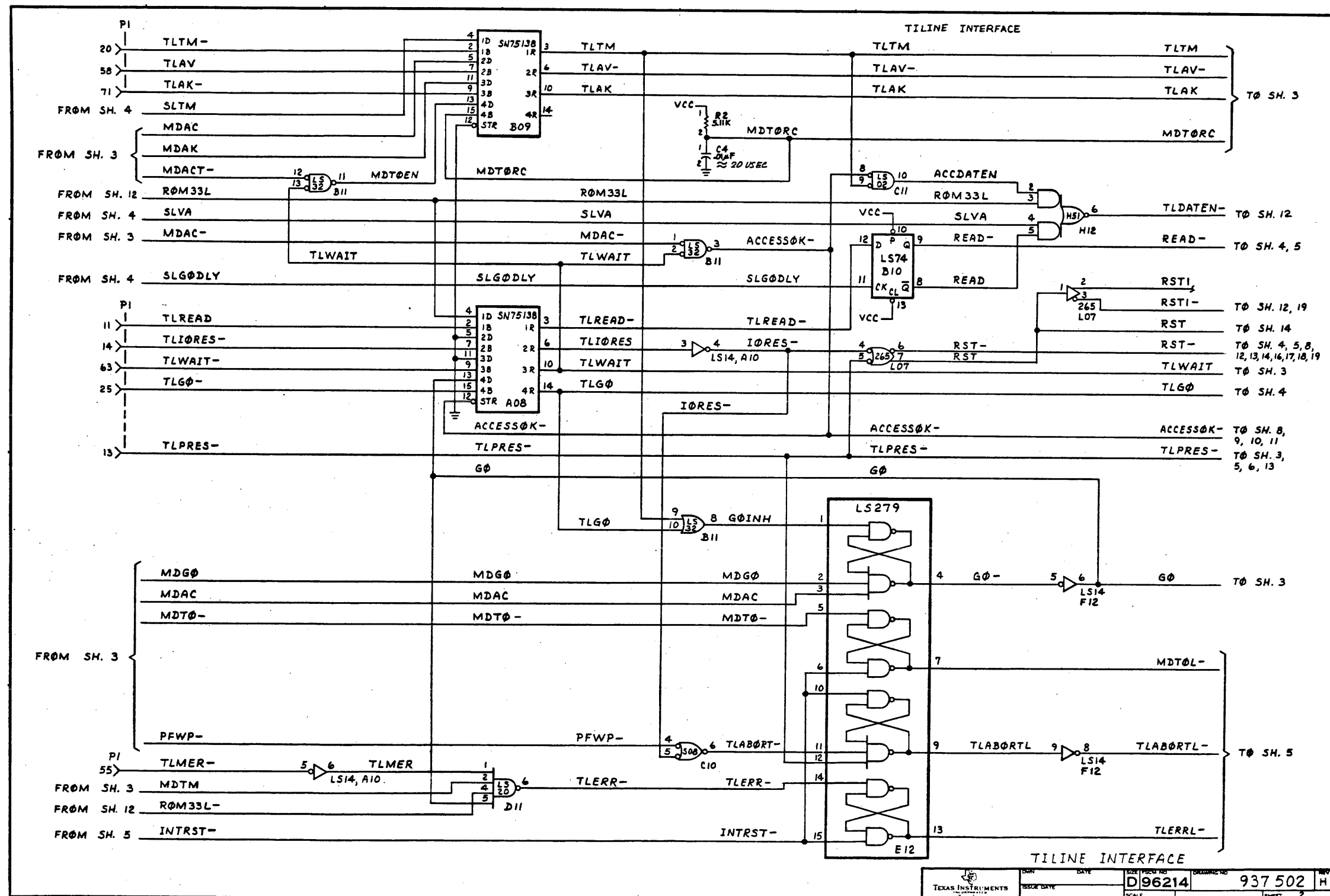
UNLESS OTHERWISE SPECIFIED		UNLESS OTHERWISE SPECIFIED	
REMOVE ALL BURRS AND SHARP EDGES	CONCENTRICITY MATCHED	DIMENSIONS ARE IN INCHES	TOLERANCES
DIA METERS .010 FIN	DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING	ANGLES ±1°	3 PLACE DECIMALS ±.010
IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY	INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-105	MATERIAL:	2 PLACE DECIMALS ±.02
HOLE TOLERANCE			
.013 +.004	.125 +.006		
.180 +.001	.250 +.001		
.301 +.008	.750 +.010		
.750 +.001	1.000 +.001		
	2.000 +.001		

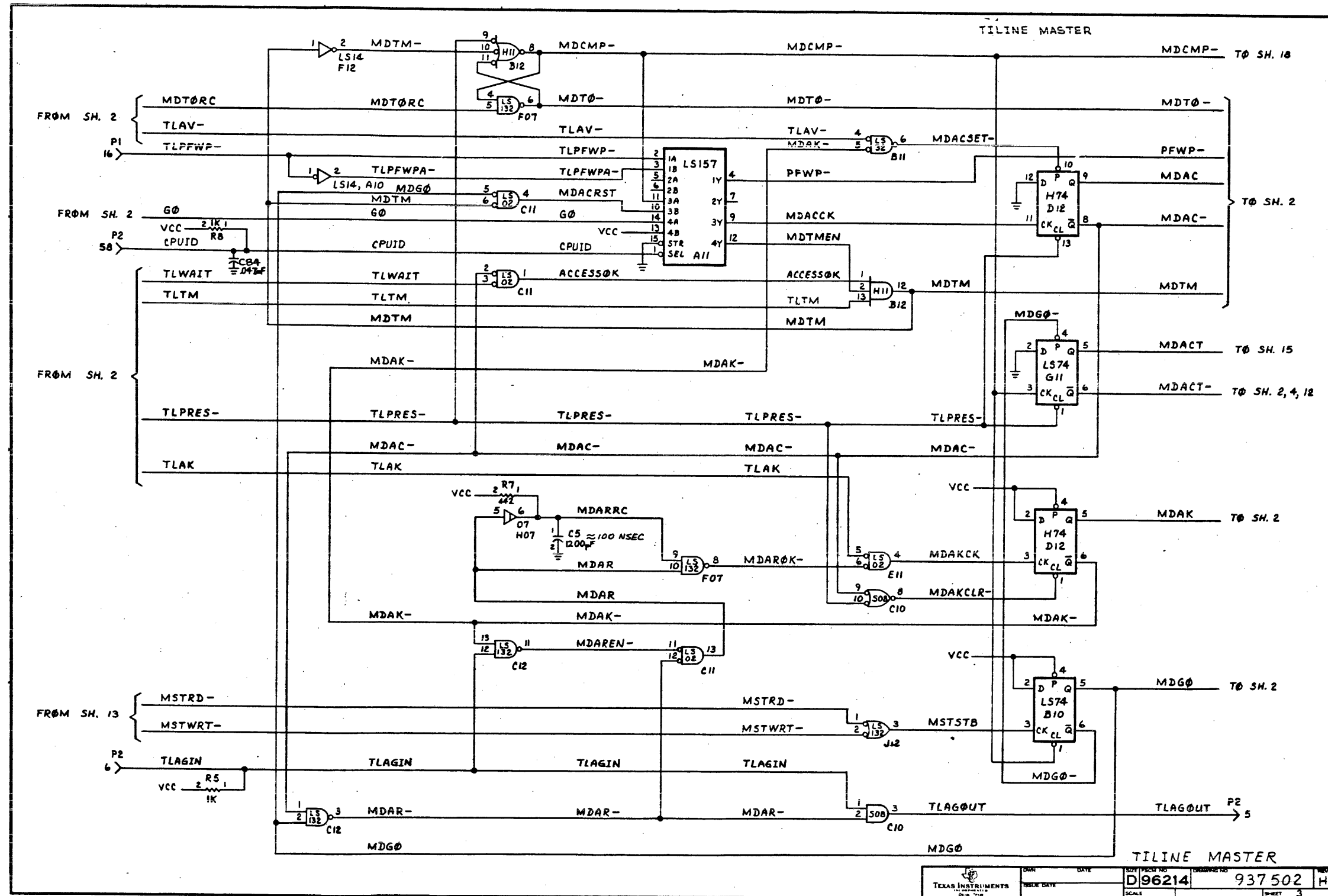
937505	7506
APPROVED	DATE
	9/1/77
DESIGNED	DATE
	9-9-77
CONTR NO	
FORMAL ACTIVITY RELEASE	DATE
	9/1/77

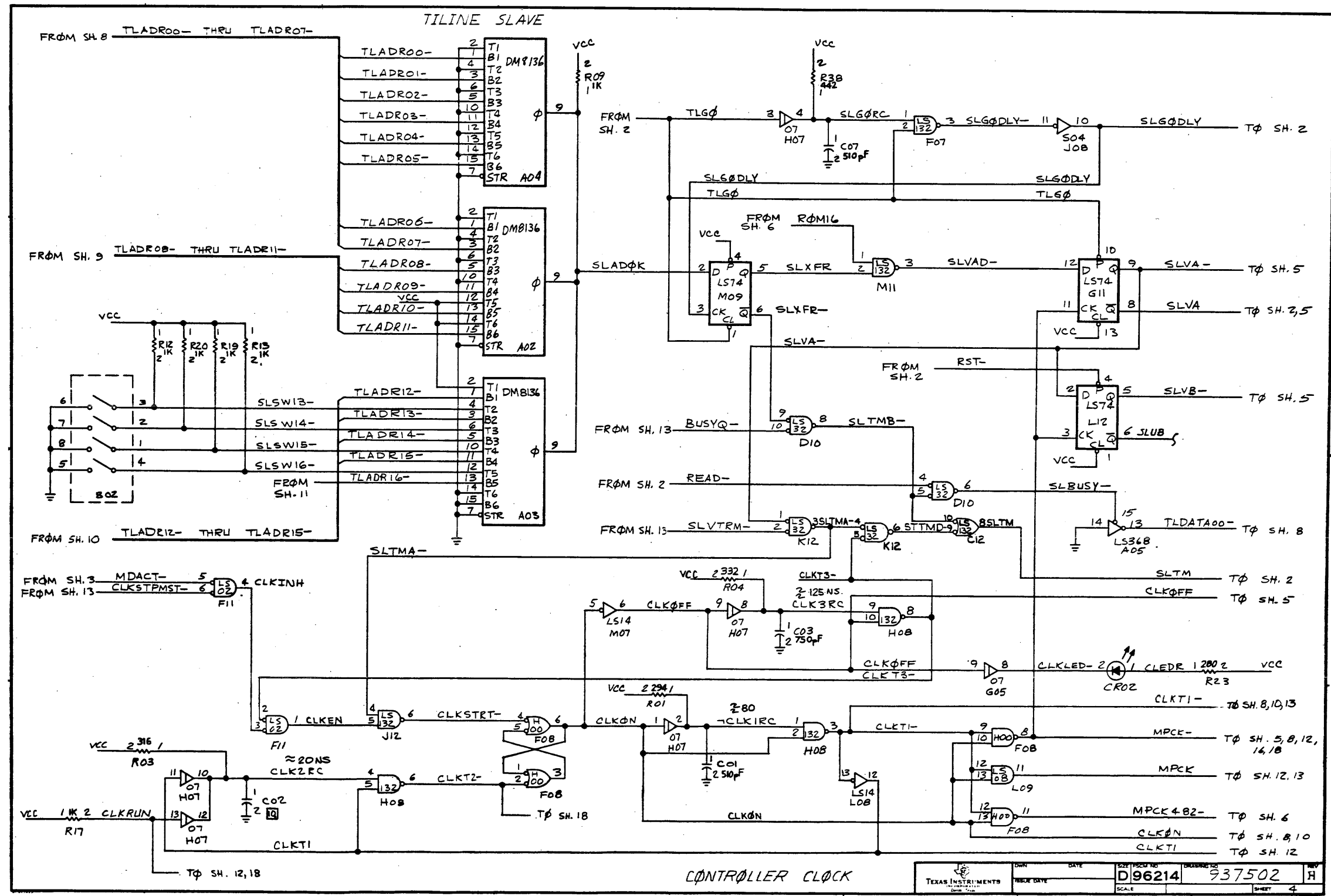
TEXAS INSTRUMENTS	
DIAGRAM, LOGIC, DETAILED, 10 MEGA BYTE DISK CONTROLLER	
SIZE	CODE
D	96214
DRAWING NO	937502
SCALE	



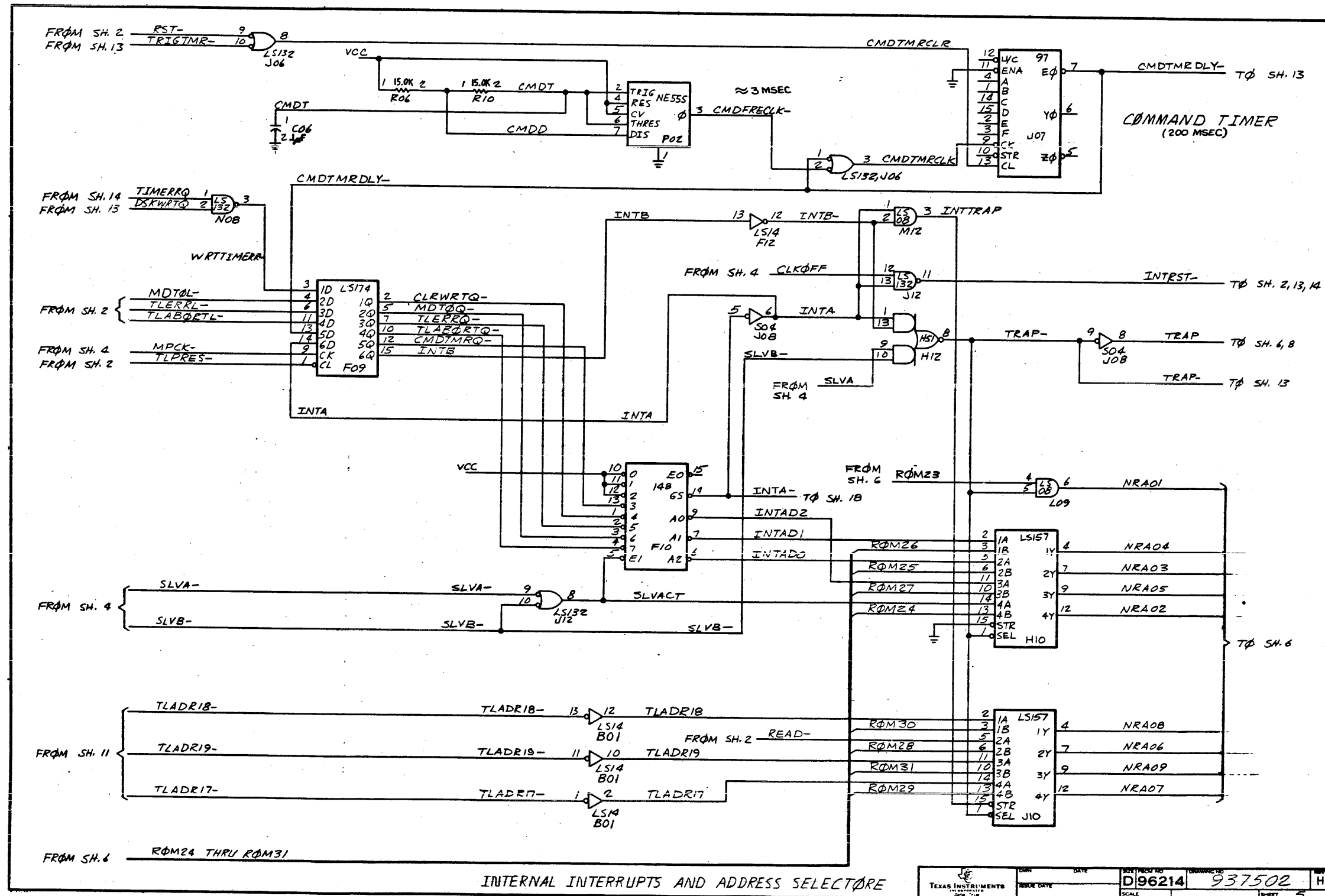
DATE	DATE	SIZE (INCHES)	NO. OF SHEETS	DESIGN NO.	REV.
		D96214	937 502		H
SCALE	SHEET				
	2				



TILINE MASTER		DATE	DESIGNED BY	NO.
TEXAS INSTRUMENTS		DATE	D 96214	937502 H
SCALE		SHEET 3		

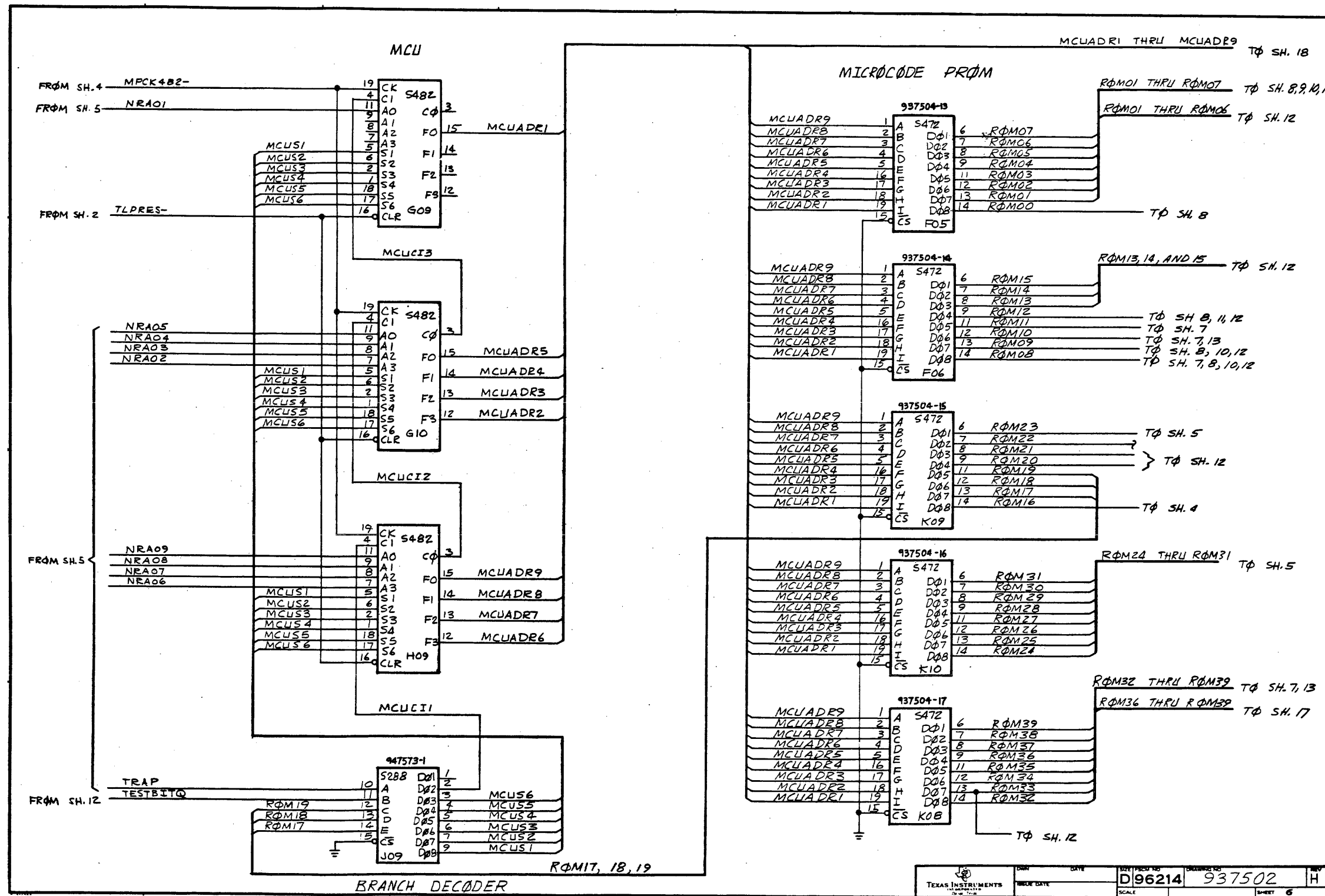


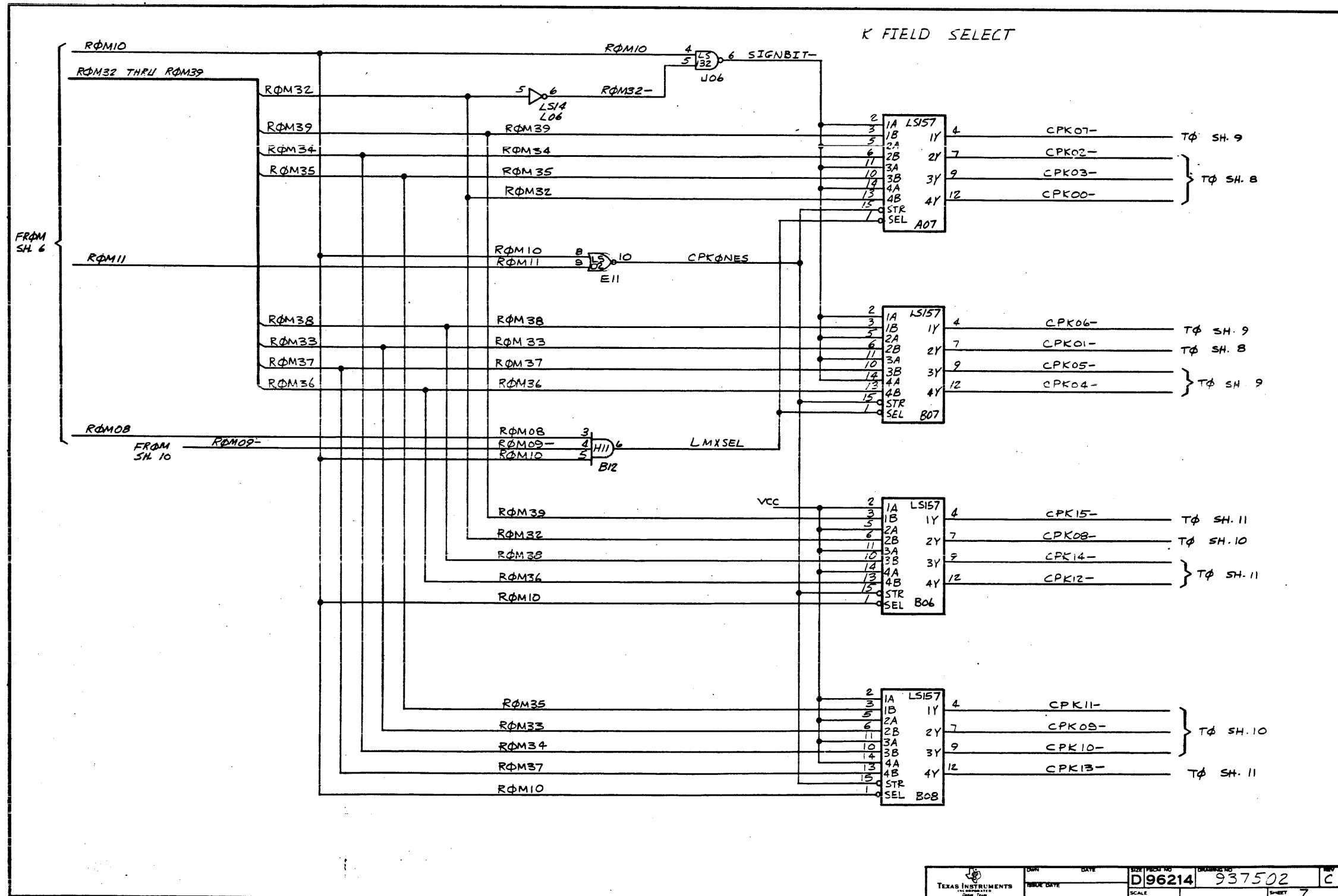
DATE	SCALE	DESIGNED BY	REV
		D96214	37502
TEXAS INSTRUMENTS		SHEET 4	

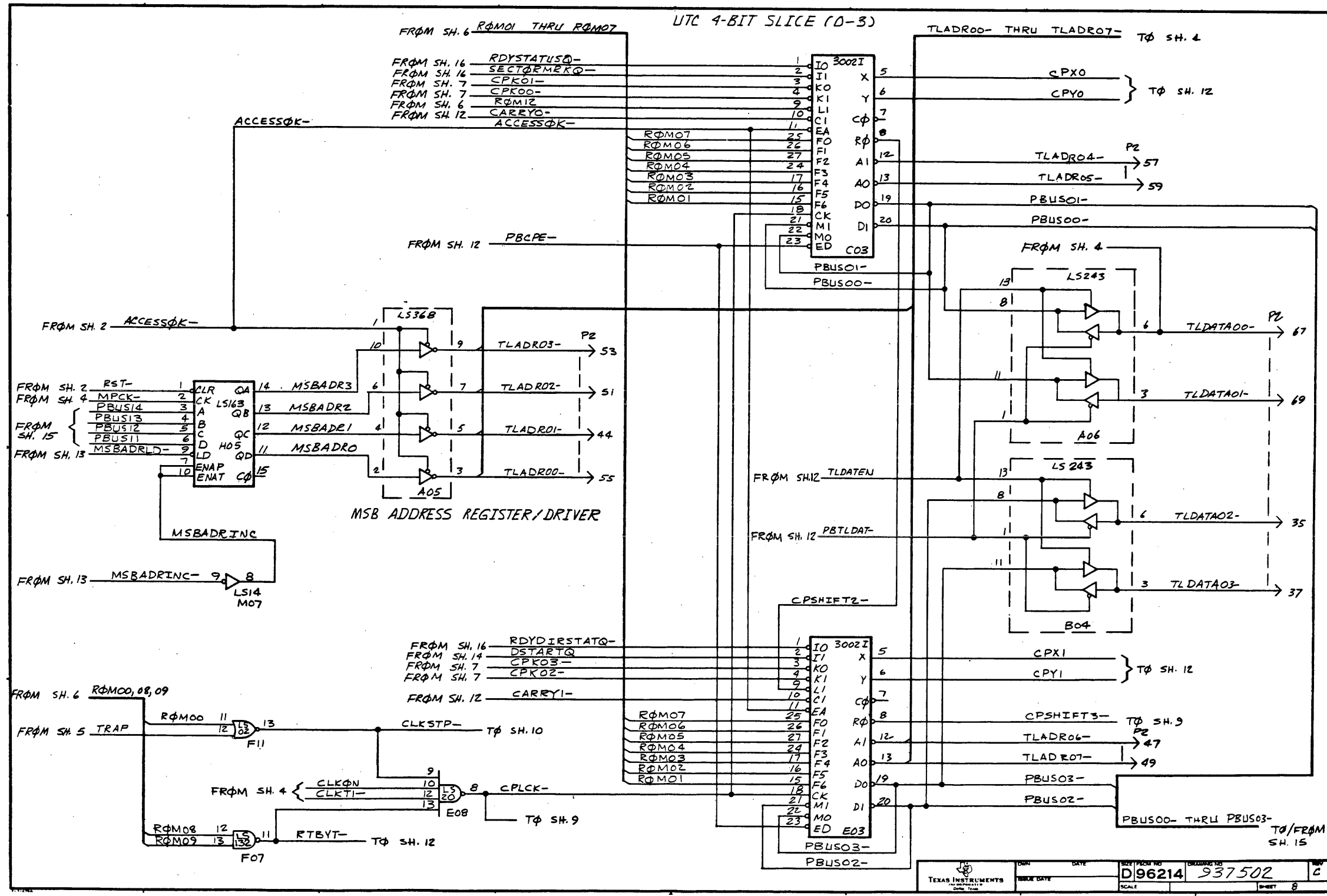


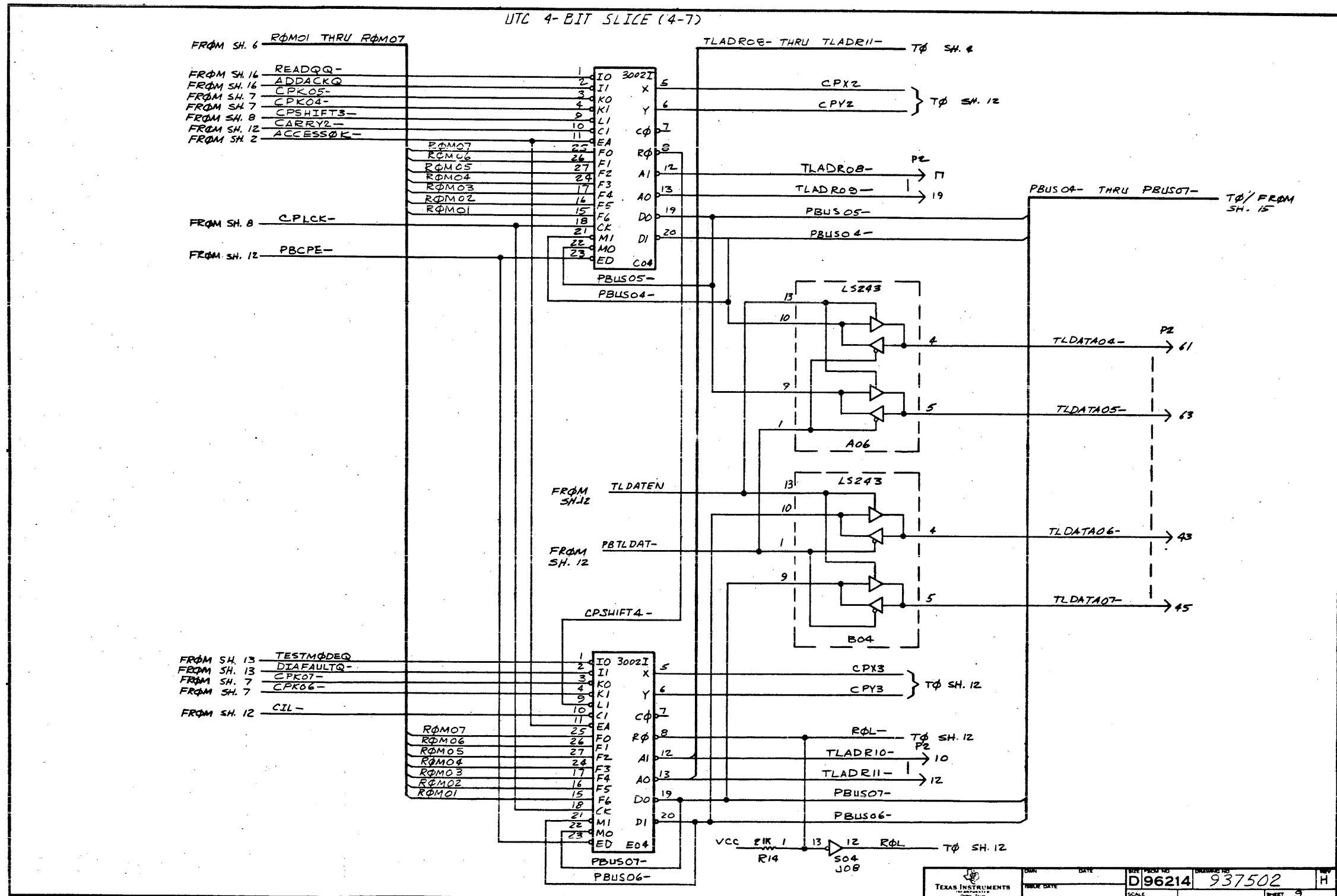
INTERNAL INTERRUPTS AND ADDRESS SELECTORE

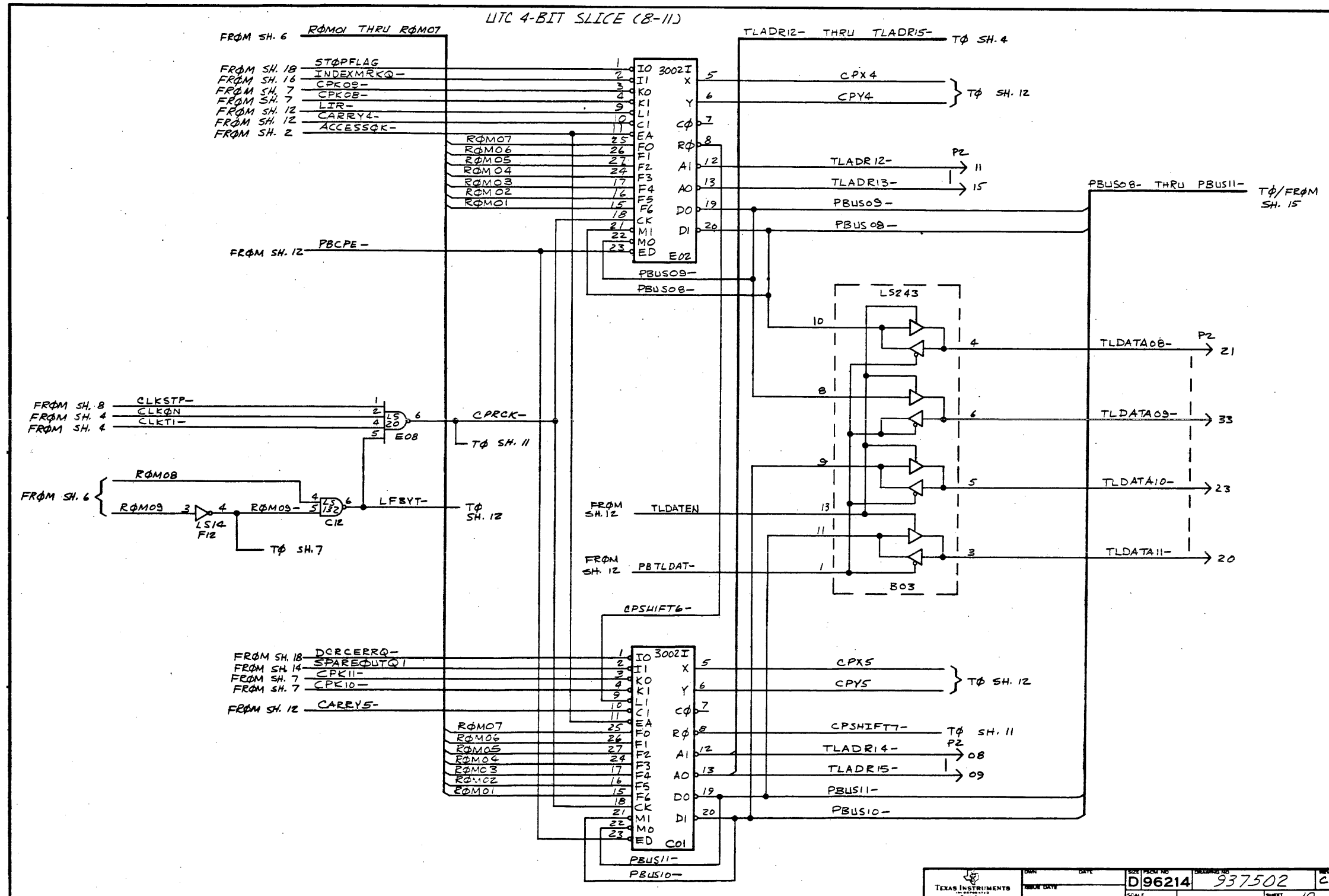




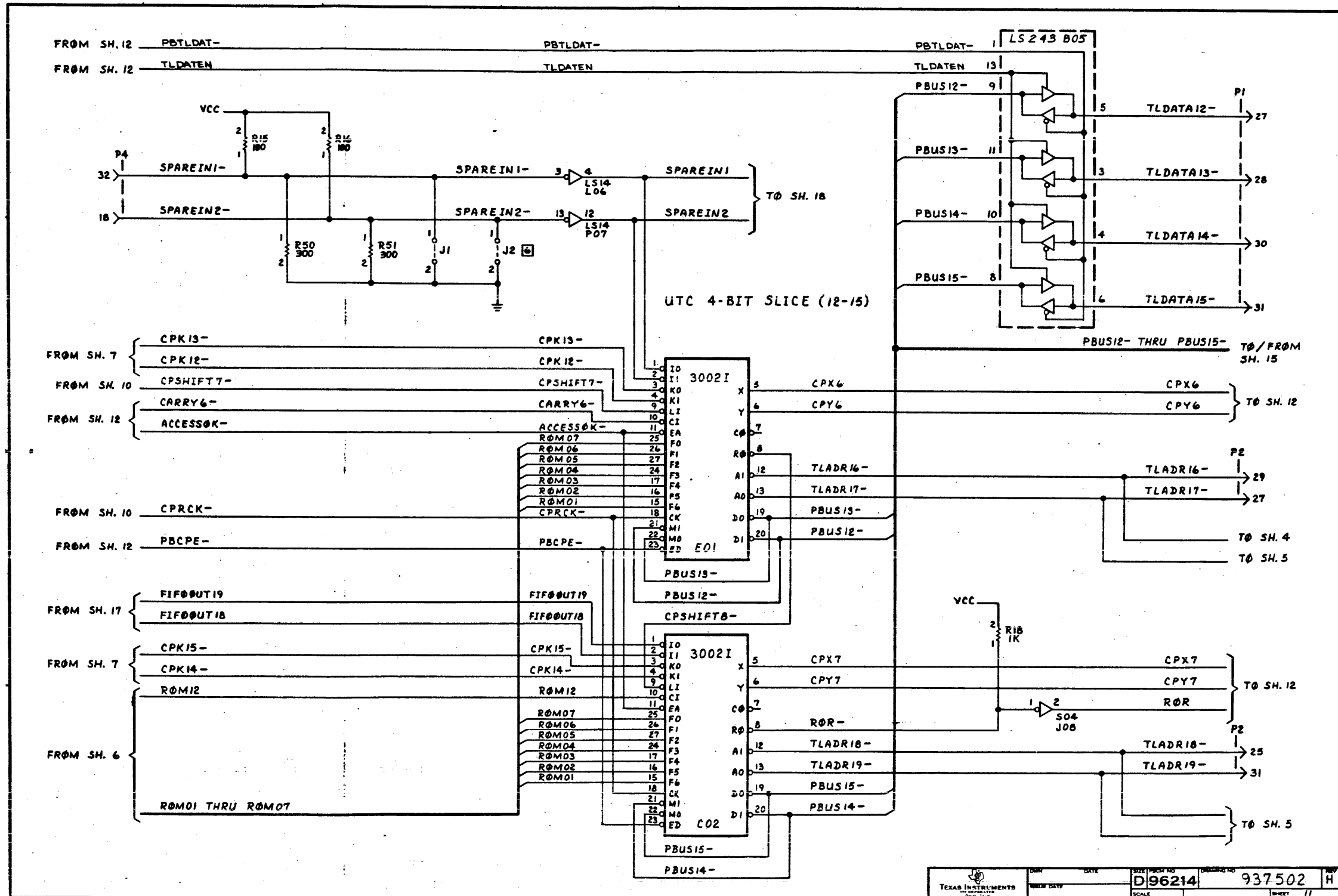


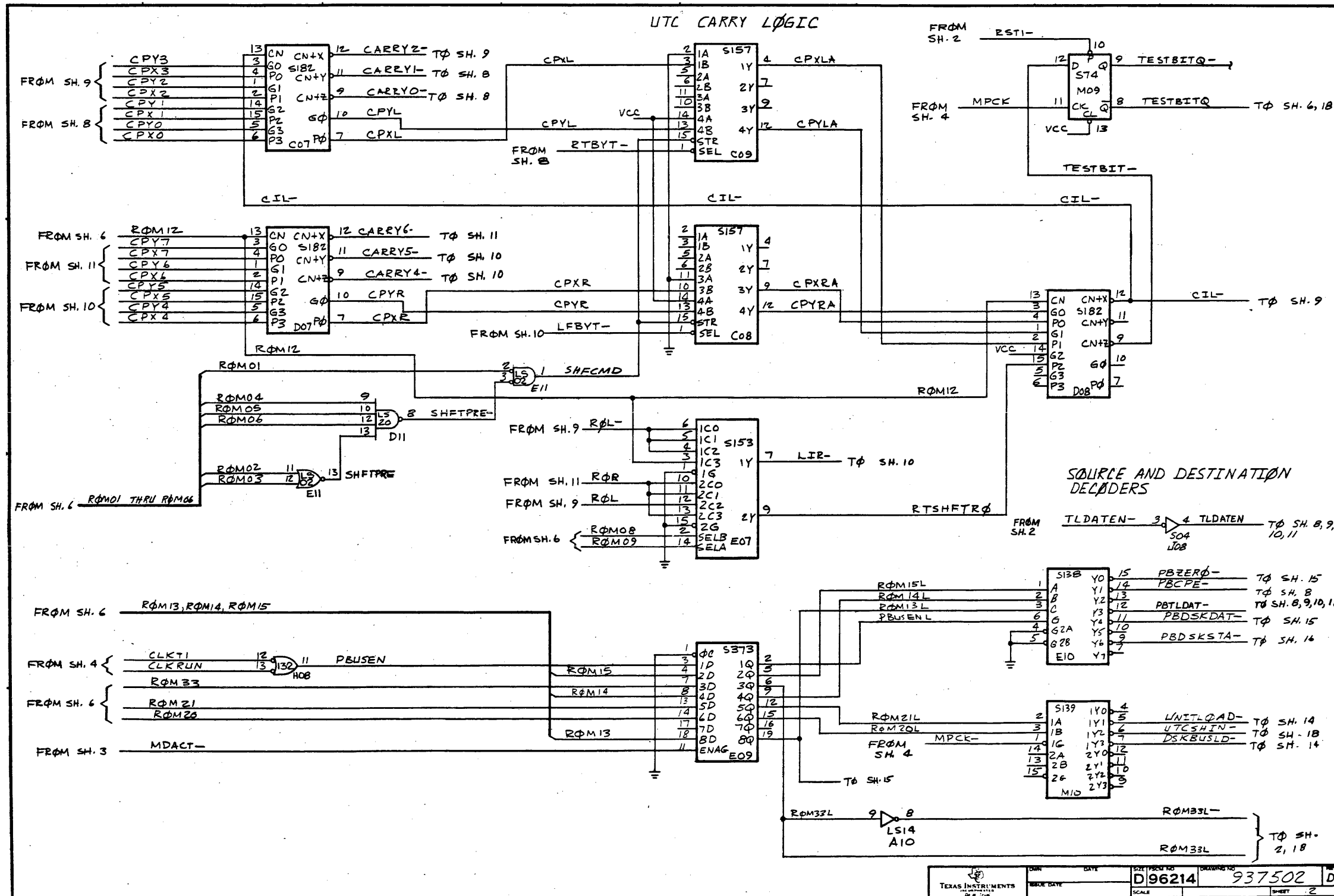




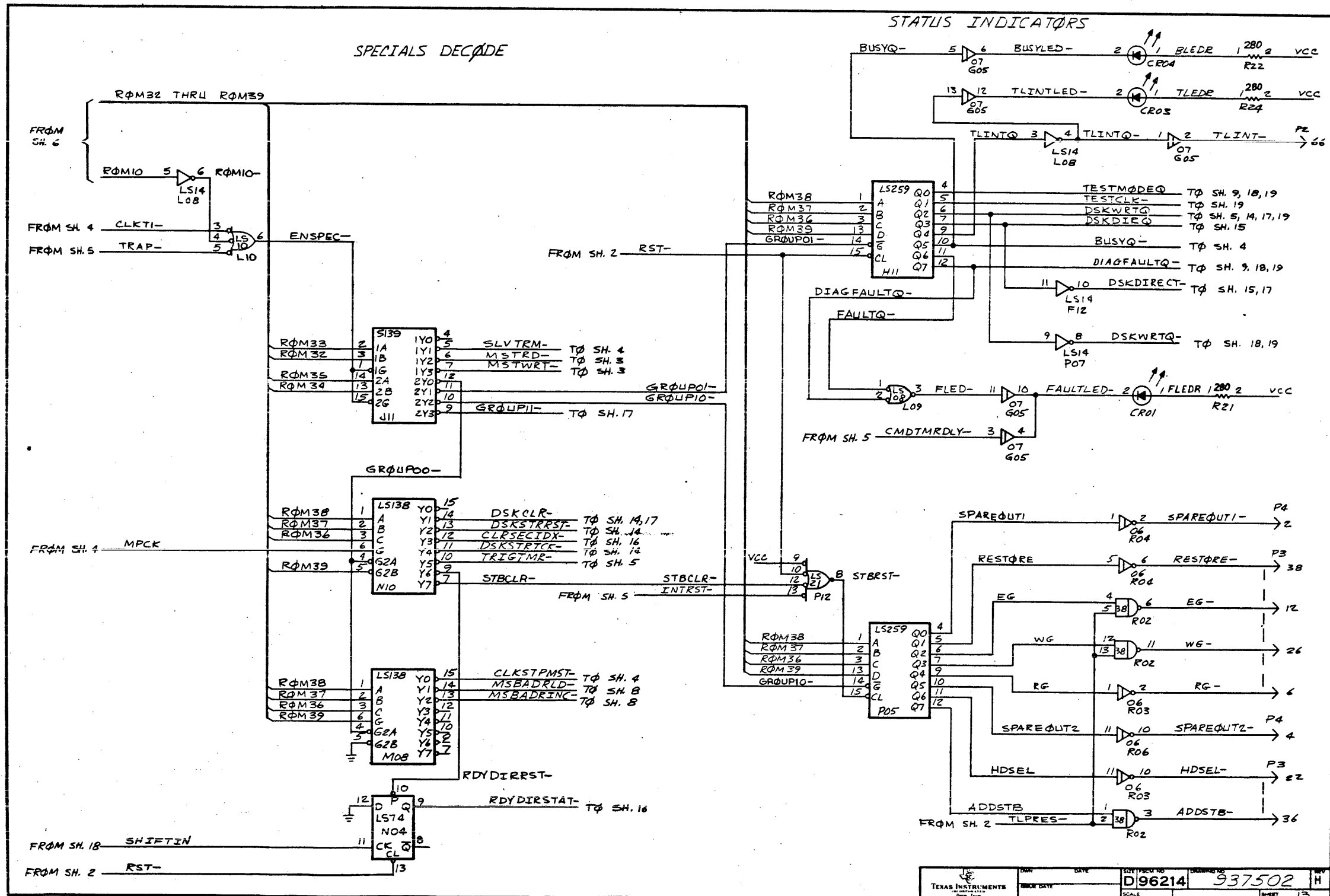


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		D96214	937502	C
		SCALE	SHEET	10

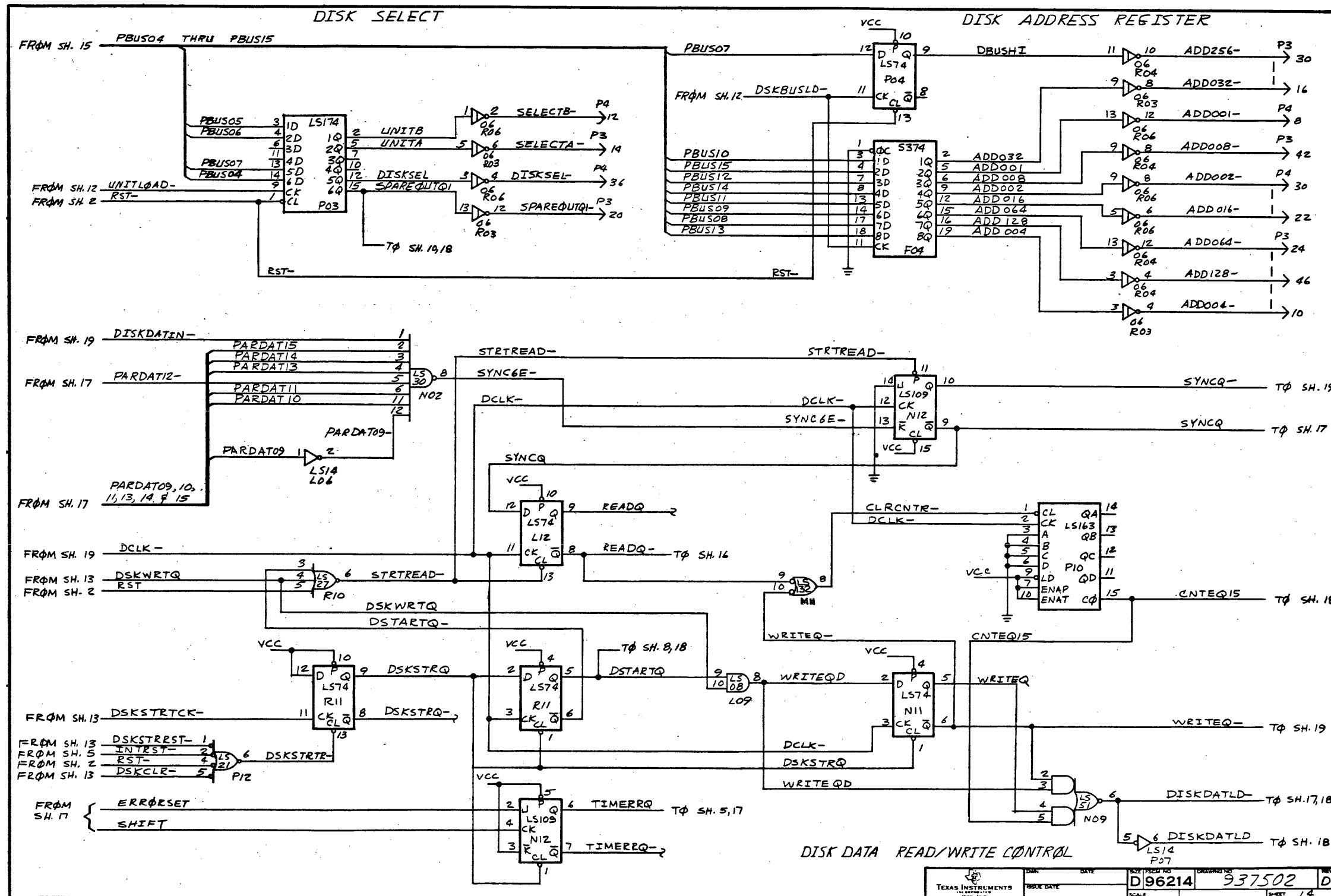


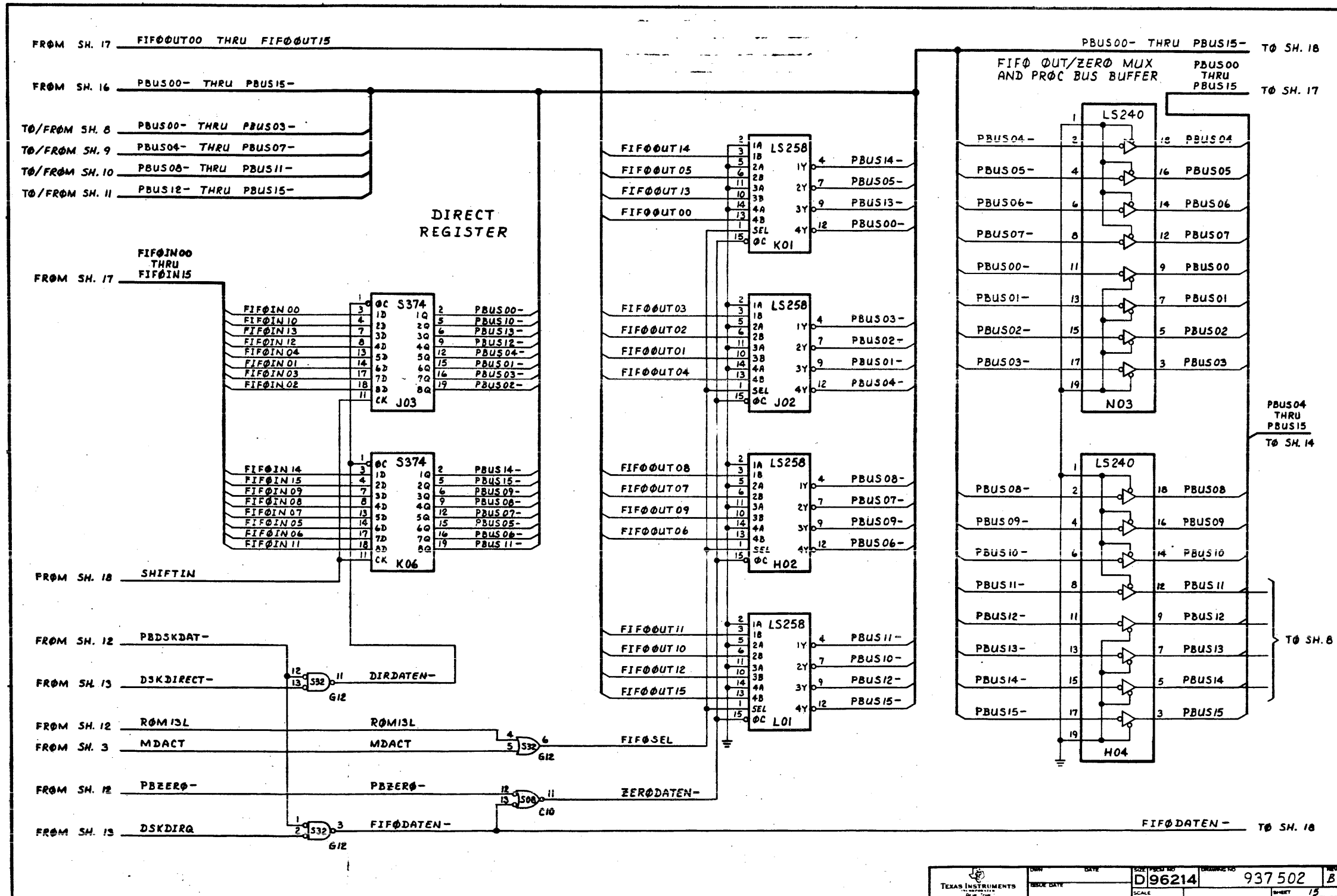


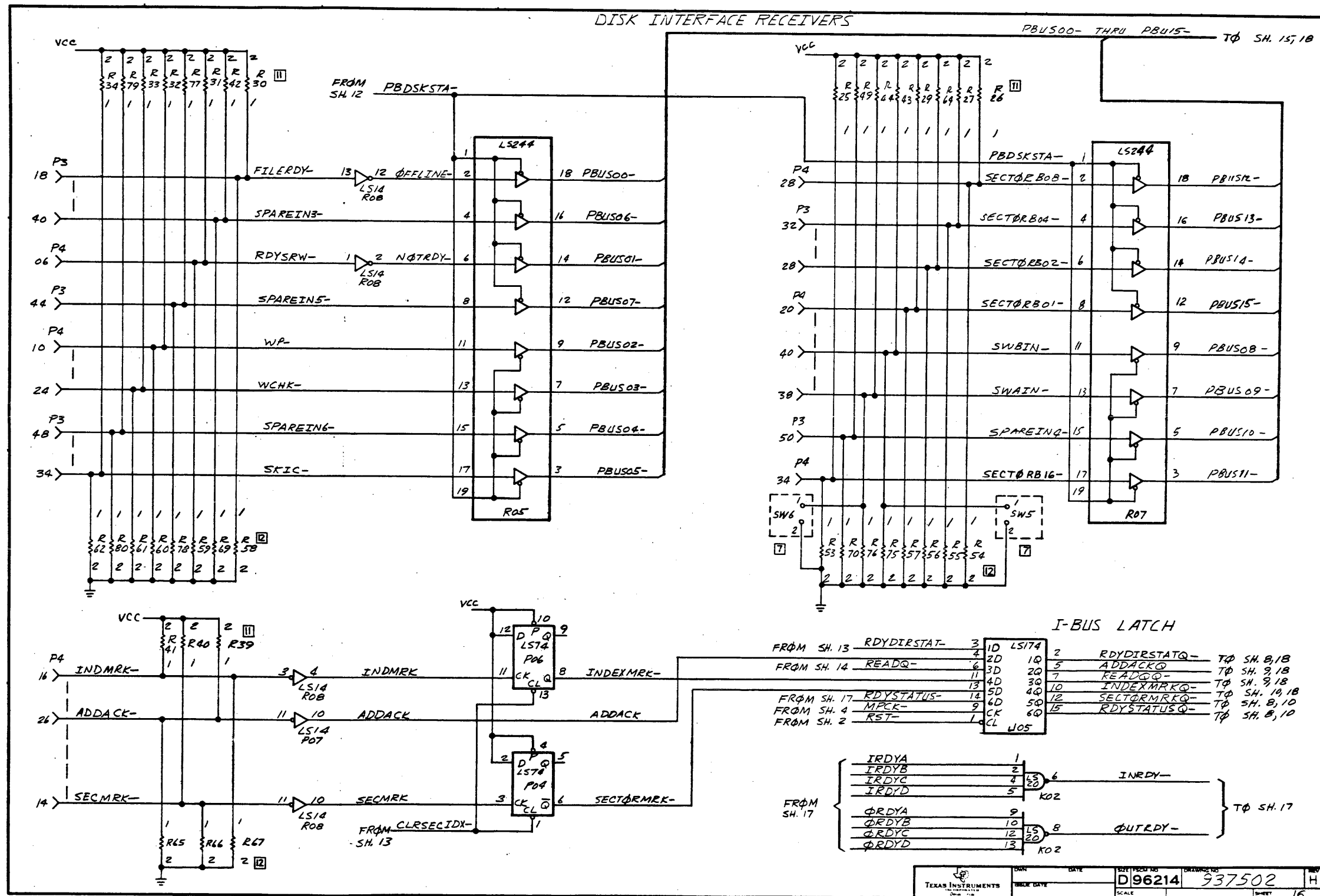
DATE	DATE	SIZE	PRICE NO.	DRAWING NO.	REV.
		D	96214	937502	D
SCALE	SHEET				
	2				

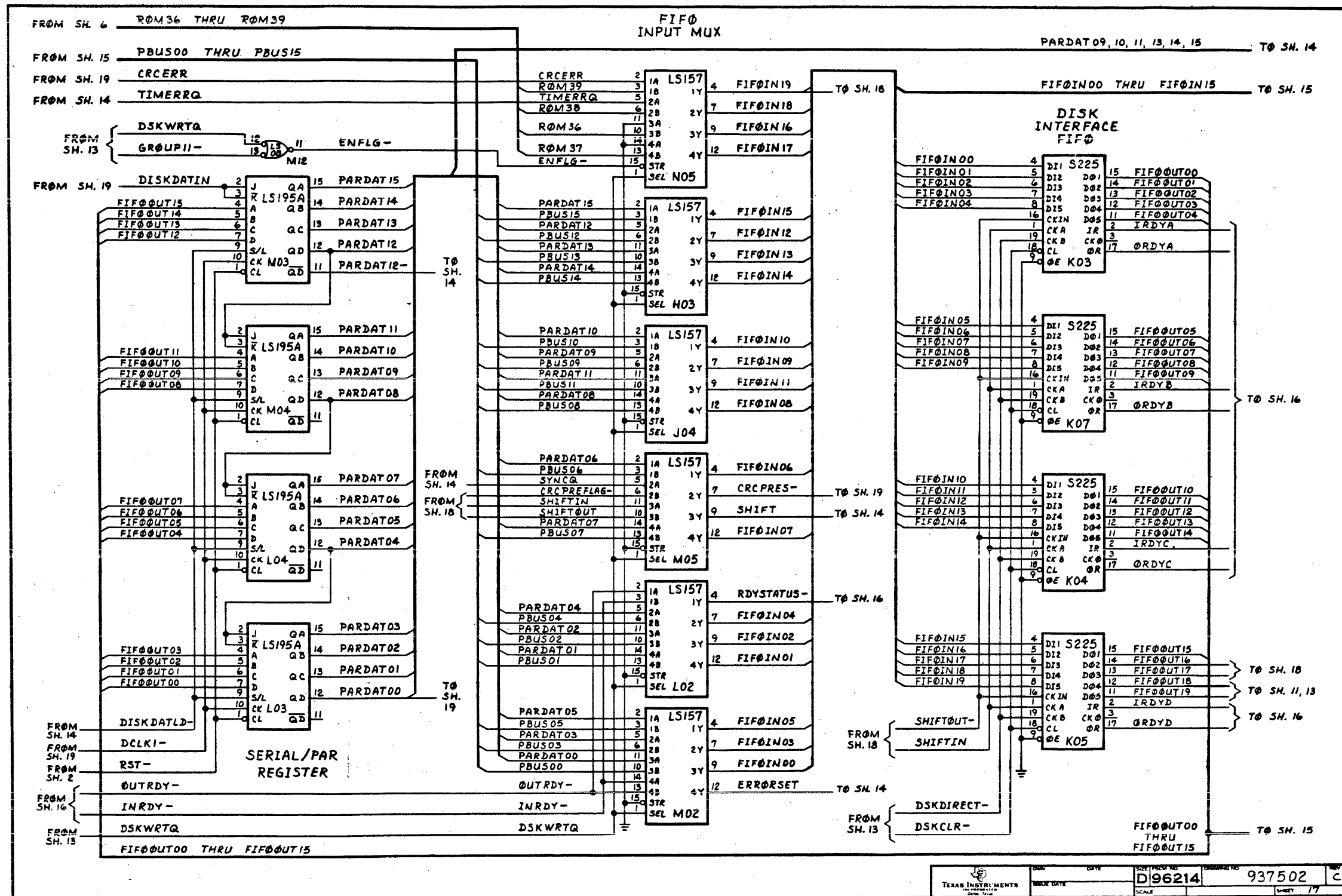


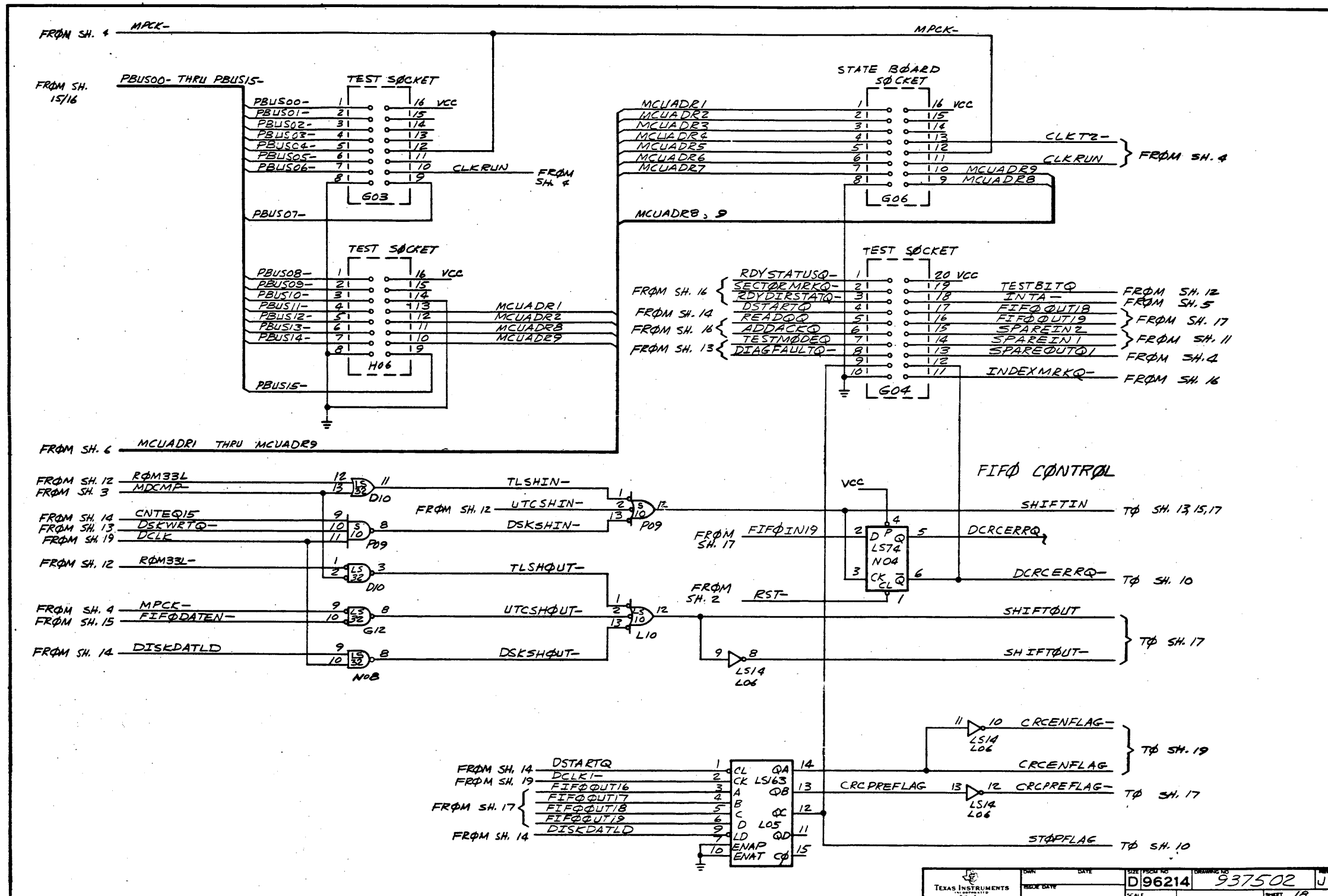




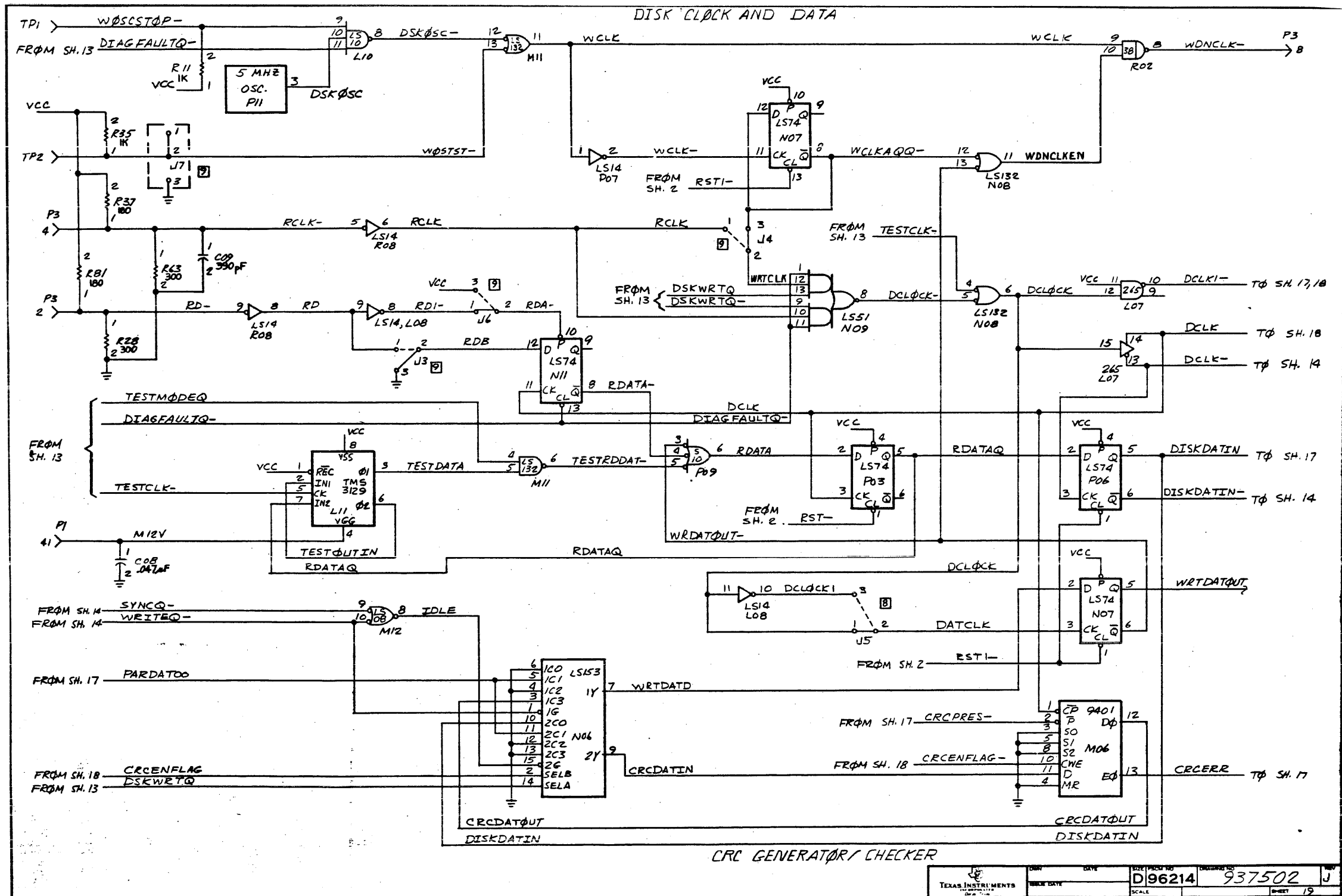


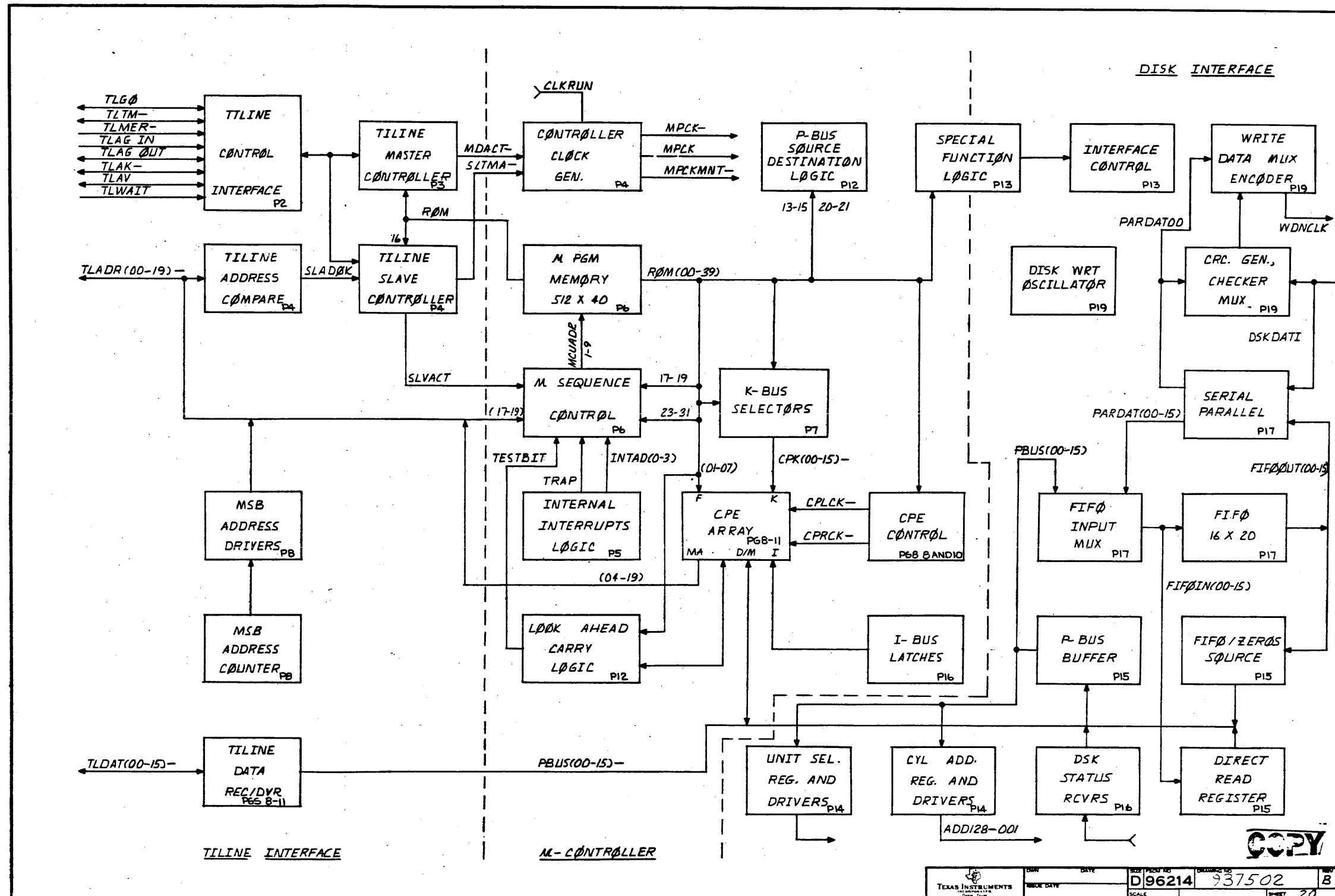






TEXAS INSTRUMENTS	DATE	SIZE PRICE NO.	DRAWING NO.
	REV. DATE	D 96214	937502
	SCALE		SHEET 18





TEXAS INSTRUMENTS	DATE	REV. FROM NO.	QUANTITY	SCALE	SHEET
		D96214	937502		20

0	1	7	8	9	10	11	12	13	15	16	17	19	20	21	22	31	32	33	34	35	36	39	
CLKSTP	FUNCTION		WS	KC		CI	SOURCE	ENSLV	BRANCH			DEST	NRA	IMMEDIATE									
																			TILINE DP	SPECIAL GROUP	SPECIAL FUNCTION		
000	NOP	WORD		F'S → K ENSP		1 → CI	ODDO	NOP	RA + 1 → RA			NOP	NOP										
001	CLKSTP	RT SHFD WD		O'S → K ENSP		0 → CI	CPE	ENSLV	NRA → RA			UNITLOAD	SLYTRM										
010		LEFT BYTE		IM → K			EXTERNAL		RA + 1 → RA / NRA → RA			FIF0	MSTRD										
011		RIGHT BYTE		IM → K			TILINE		NRA → RA, RA + 1 → RA			CYL ADDR	MSTWRT										
100							DSKDATA		NRA → RA / RA + 1 → STACK														
101									NRA → RA / STACK → RA														
110							DSKSTATUS		STACK → RA / NRA → RA														
111									STACK → RA														

RQM	RQM 34, 35		
	00	01	10
0000	NOP	RST TESTMODE	RST SPAREOUT1
0001	CLK STOP MAST	SET TESTMODE	SET SPAREOUT1
0010	CLR DSK I/F	SET TESTCLK	RST RESTORE
0011	MSB ADR LD	RST TESTCLK	SET RESTORE
0100	STOP I/F CNT.	RST I/F WRT	RST ERASE
0101	MSB ADR INC	SET I/F READ	SET ERASE
0110	CLR SECT/INDX	RST DIRECT MODE	RST W.G.
0111	NOP	SET DIRECT MODE	SET W.G.
1000	START I/F CNT.	RST TL. INT	RST READ
1001	NOP	SET TL. INT	SET READ
1010	TRIGGER TIMER	SET BUSY	RST SPAREOUT2
1011	NOP	RST BUSY	SET SPAREOUT2
1100	RST DIR. READY	SET FAULT	RST HEADSEL
1101	NOP	RST FAULT	SET HEADSEL
1110	CLR DISK CNT.	SET DIAG FAULT	RST ADDSTB
1111	NOP	RST DIAG FAULT	SET ADDSTB

RQM 34 35	RQM 36-39
11	BIT 36 SET(ONE) CAUSES CRC TO BE ENABLED OUT TO DISK
11	BIT 37 SET(ONE) CAUSES THE CRC CHARACTER GENERATOR TO BE SET TO A STATE OF ALL ONES
11	BIT 38 SET(ONE) ENABLES A SPECIAL FLAG BIT TO BE LOADED INTO FIF0 TO ALLOW THE CONTROLLER TO DETECT WHEN A STOP CONDITION IS PRESENT
11	BIT 39 IS AN UNUSED SPARE FLAG BIT

MICROCODE FIELD DEFINITIONS

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
R0	FE			I.	ATTN MSK			0 1 2 3								
R1	T.I. COMMAND						SECTORS/RECORD									
R2	SECTORS/RECORD						DIAG. ERROR #									
R3	HD						CYLINDER									
R4	FORMAT WORD															
R5	TILINE WORD COUNT(2'S COMPL.)															
R6	TILINE ADDRESS(04-19)															
R7	UNIT SEL.				TILINE ADR.				00-05							
R8	RECORD WORD COUNT															
R9	TEST COMPLETION COUNT															
T	RECORD WORD COUNT(2'S COMPL.)															
AC	GENERAL UTILITY															
H	GENERAL UTILITY															

		BIT POSITION																	
		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
PBUS SOURCE	ZER0'S	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0																	
	CPE	CPE ARRAY OUTPUT (AC)																	
	EXTERNAL TILINE	FLOAT																	
	DISK DATA	TILINE DATA 00-15																	
PBUS DESTINATION	DISK STATUS	(DIRECT DATA) DISK DATA (FIF0 OUTPUT)																	
	CYL. ADD.	OFFLINE	NOT READY																
		WRT PROT	UNSAFE																
		SEEKING	SPAREIN6																
		SPAREIN3	SPAREIN5																
		SWB	SWA																
SECTORB16		SECTORB16																	
SECTORB8	SECTORB8																		
SECTORB4	SECTORB4																		
SECTORB2	SECTORB2																		
SECTORB1	SECTORB1																		
PBUS DESTINATION	NONE	NONE																	
	UNIT	SPARE1 SELB SELA DSKSEL																	
	FIFO	FIF0 INPUT 00-15																	
PBUS DESTINATION	CYL. ADD.	ADD256		ADD128		ADD064		ADD032		ADD016		ADD008		ADD004		ADD002		ADD001	



MICRO - FUNCTION SUMMARY			
STEP	F-GROUP	R-GROUP	MICRO-FUNCTIONS
1		I	$R_N + (AC \wedge K) + CI \rightarrow R_N \cdot AC$
2	0	II	$M + (AC \wedge K) + CI \rightarrow AT$
3		III	$AT_L \wedge (I_L \wedge K_L) \rightarrow RO$ $LI \vee [(I_H \wedge K_H) \wedge AT_H] \rightarrow AT_H$ $[AT_L \wedge (I_L \wedge K_L)] \vee [AT_H \vee (I_H \wedge K_H)] \rightarrow AT_L$
4		I	$K \vee R_N \rightarrow MAR$ $R_N + K + CI \rightarrow R_N$
5	1	II	$K \vee M \rightarrow MAR$ $M + K + CI \rightarrow AT$
6		III	$(\overline{AT} \vee K) + (AT \wedge K) + CI \rightarrow AT$
7		I	$(AC \wedge K) \cdot I + CI \rightarrow R_N$
8	2	II	$(AC \wedge K) \cdot I + CI \rightarrow AT$ } SEE NOTE ①
9		III	$(I \wedge K) \cdot I + CI \rightarrow AT$ }
10		I	$R_N + (AC \wedge K) + CI \rightarrow R_N$
11	3	II	$M + (AC \wedge K) + CI \rightarrow AT$
12		III	$AT + (I \wedge K) + CI \rightarrow AT$
13		I	$CI \vee (R_N \wedge AC \wedge K) \rightarrow CO$ $R_N \wedge (AC \wedge K) \rightarrow R_N$
14	4	II	$CI \vee (M \wedge AC \wedge K) \rightarrow CO$ $M \wedge (AC \wedge K) \rightarrow AT$
15		III	$CI \vee (AT \wedge I \wedge K) \rightarrow CO$ $AT \wedge (I \wedge K) \rightarrow AT$
16		I	$CI \vee (R_N \wedge K) \rightarrow CO$ $K \wedge R_N \rightarrow R_N$
17	5	II	$CI \vee (M \wedge K) \rightarrow CO$ $K \wedge M \rightarrow AT$
18		III	$CI \vee (AT \wedge K) \rightarrow CO$ $K \wedge AT \rightarrow AT$
19		I	$CI \vee (AC \wedge K) \rightarrow CO$ $R_N \vee (AC \wedge K) \rightarrow R_N$
20	6	II	$CI \vee (AC \wedge K) \rightarrow CO$ $M \vee (AC \wedge K) \rightarrow AT$
21		III	$CI \vee (I \wedge K) \rightarrow CO$ $AT \vee (I \wedge K) \rightarrow AT$
22		I	$CI \vee (R_N \wedge AC \wedge K) \rightarrow CO$ $R_N \oplus (AC \wedge K) \rightarrow R_N$
23	7	II	$CI \vee (M \wedge AC \wedge K) \rightarrow CO$ $M \oplus (AC \wedge K) \rightarrow AT$
24		III	$CI \vee (AT \wedge I \wedge K) \rightarrow CO$ $AT \oplus (I \wedge K) \rightarrow AT$

NOTES:  
 1. 2'S COMPLEMENT ARITHMETIC ANDS III...II TO PERFORM SUBTRACTION OF 000...01.  
 2.  $R_N$  INCLUDES T AND AC AS SOURCE AND DESTINATION REGISTERS IN F-GROUP I MICRO-FUNCTIONS.  
 3. STANDARD ARITHMETIC ARRY OUTPUT VALUES ARE GENERATED IN F-GROUP 0, 1, 2 AND 3 INSTRUCTIONS.

LEGEND	
SYMBOL	MEANING
I, K, M	DATA ON THE I, K, AND M BUSES, RESPECTIVELY
CI, LI	DATA ON THE CARRY INPUT AND LEFT INPUT, RESPECTIVELY
CO, RO	DATA ON THE CARRY OUTPUT AND RIGHT OUTPUT, RESPECTIVELY
$R_N$	CONTENTS OF REGISTER N INCLUDING T AND AC (F-GROUP I)
AC	CONTENTS OF THE ACCUMULATOR
AT	CONTENTS OF AC OR T, AS SPECIFIED
MAR	CONTENTS OF THE MEMORY ADDRESS REGISTER
+	2'S COMPLEMENT ADDITION
$\wedge$	LOGICAL AND
$\vee$	LOGICAL OR
$\oplus$	EXCLUSIVE NOR
$\rightarrow$	DEPOSIT INTO

FUNCTION GROUP	F <sub>6</sub>	F <sub>5</sub>	F <sub>4</sub>
0	0	0	0
1	0	0	1
2	0	1	0
3	0	1	1
4	1	0	0
5	1	0	1
6	1	1	0
7	1	1	1

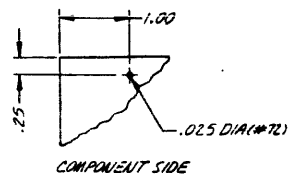
REGISTER GROUP	REGISTER	F <sub>3</sub>	F <sub>2</sub>	F <sub>1</sub>	F <sub>0</sub>
	R <sub>0</sub>	0	0	0	0
	R <sub>1</sub>	0	0	0	1
	R <sub>2</sub>	0	0	1	0
	R <sub>3</sub>	0	0	1	1
	R <sub>4</sub>	0	1	0	0
	R <sub>5</sub>	0	1	0	1
	R <sub>6</sub>	0	1	1	0
	R <sub>7</sub>	0	1	1	1
	R <sub>8</sub>	1	0	0	0
	R <sub>9</sub>	1	0	0	1
	T	1	1	0	0
	AC	1	1	0	1
II	T	1	0	1	0
	AC	1	0	1	1
III	T	1	1	1	0
	AC	1	1	1	1

SLAVES		
	READ ADRS.	WRITE ADRS.
SLAVE 0	0F0	0FB
SLAVE 1	0F1	0FA
SLAVE 2	0F2	0F9
SLAVE 3	0F3	0F8
SLAVE 4	0F4	0F7
SLAVE 5	0F5	0F6
SLAVE 6	0F6	0F5
SLAVE 7	0F7	0F4

TRAPS	
TRAP ADRS.	DESCRIPTION
000	TLABRTQ - (I/O RESET, PFWP, TLPRES)
010	MDTQ - (TILINE TIME OUT)
020	TLERRQ - (MEMORY PARITY ERROR)
030	CLRWRQ - (RATE ERROR)
040	CMDTRQ - (COMMAND TIMER)

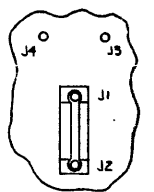
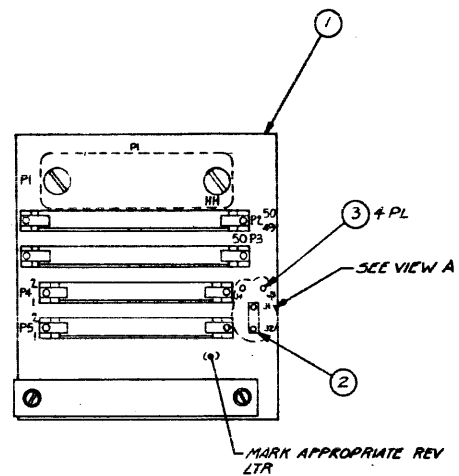
NOTES: UNLESS OTHERWISE SPECIFIED:

1. INSTALL ITEMS 6, 8, 9, 11 & 12 AFTER PROCESS 1.
2. REVISION A PWB'S ARE REQUIRED FOR USE ON QUINCY CABINETS BECAUSE OF MECHANICAL INTERFERENCE.
3. THE MALE COLLECTOR SHALL BE INSTALLED ON THE SIDE NEAREST THE "A" REFERENCE PIN. THE FEMALE COLLECTOR SHALL BE INSTALLED ON THE OPPOSITE SIDE, BY THE "FF" REFERENCE PIN.
4. REWORK FOR PWB 937511 REV C OR PRIOR: A DRILL A HOLE THROUGH THE BOARD IN THE TOP LEFT AREA NEXT TO THE WILCHESTER COLLECTOR. THE HOLE SHALL BE .025 INCH IN DIAMETER. LOCATE HOLE FROM TOP LEFT CORNER AS SHOWN BELOW:

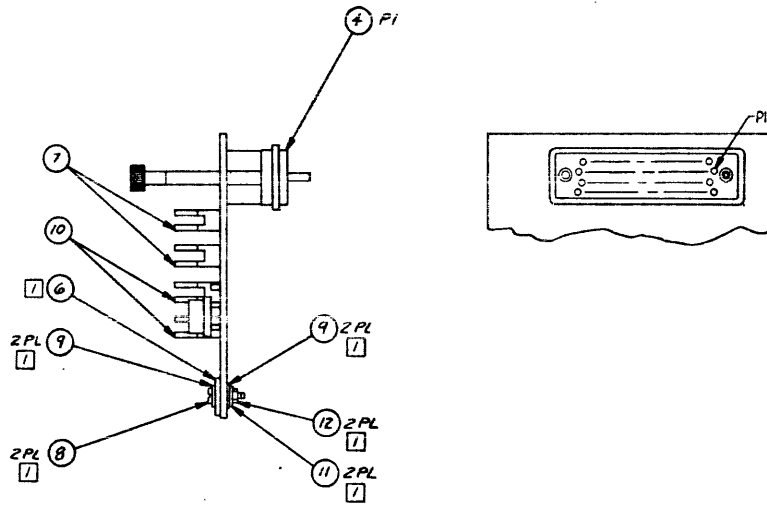


NOTES CONT:

- A. B. ON PI (WILCHESTER CONNECTOR) ADD A JUMPER WIRE BETWEEN PI-H AND PI-I. THIS JUMPER SHOULD BE SOLDERED BETWEEN PINS ON THE COMPONENT SIDE OF THE BOARD.
- C. ADD A JUMPER FROM PI-H ON THE COMPONENT SIDE TO PA-4 ON THE SOLDER SIDE OF THE BOARD. ROUTE THE WIRE THROUGH THE HOLE MADE IN STEP A WHEN ADDING THE JUMPER.
- D. ADD JUMPER FROM PA-4 TO P5-4 (SOLDER SIDE).



VIEW A  
SCALE: NONE



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	CN 426376 (C) H. L. (1) UPDATED REV LEVEL BLOCK	5-4-77	J. R. [Signature]
B	CN 426376 (C) H. L. (1) ADDED NOTE 2 (2) REVISED LOCATION OF ITEM 4 TO AGREE WITH PWB REV B (3) UPDATED REV LEVEL BLOCK	7-26-77	J. R. [Signature]
C	CN 426376 (C) H. L. (1) ADDED NOTE 3 (2) REVISED SIDE VIEW OF PI TO SHOW FEMALE COLLECTOR (WAS MALE TYPE) (3) RELOCATED PI TO AGREE WITH REV C PWB (4) UPDATED REV LEVEL BLOCK	10-26-77	J. R. [Signature]
D	CN 426376 (C) H. L. (1) ADDED NOTE 4 (2) UPDATED REV LEVEL BLOCK	4-18-78	J. R. [Signature]
E	CN 426376 (C) H. L. (1) REVISED PICTORIAL TO AGREE WITH REV D PWB (2) UPDATED REV LEVEL BLOCK	4-18-78	J. R. [Signature]
F	CN 440455 (D) S. B. (1) ON LM ITEM 3 PN WAS 972742-1 (2) UPDATED REV LEVEL BLK.	9-28-78	J. R. [Signature]
G	CN 445229 (C) C. LANG (1) ADDED ITEM 14 TO LM (2) ADDED TEST PROCEDURE BLOCK (3) UPDATED REV LEVEL BLOCK	5-22-79	J. R. [Signature]
H	CN 448368 (E) S. B. (1) DELETED ITEM 5 (2) Z 04 DELETED CALLOUT 5 (3) UPDATED REV LEVEL BLOCK	8-13-79	J. R. [Signature]

REV	TEST PROCEDURE 941916-9901												C	D	
	SCHEMATIC 937512-9901												A	B	
	PWB 937511-0001												A	B	
	ASSY 937510-0001												A	B	
A	A	A	A	B	B	B	B	B	B	B	B	B	B	B	B
B	A	B	C	C	D	D	D	D	D	D	D	D	D	D	
C	A	B	C	D	E	F	G	H	H	H	H	H	H	H	

- PROCESSES:
1. SOLDER PER F-127, METHOD 1 AND/OR F-124, METHOD 2
  2. MARK PER F-100, METHOD II, CLASS 1, HEIGHT .12, COLOR BLK

QTY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION	NOTES
1	7506	94004	CABLE ADAPTER, 10 MEGA BYTE DISK	D96214	937510

UNLESS OTHERWISE SPECIFIED:  
 1. DIMENSIONS ARE IN INCHES  
 2. TOLERANCES - ANGLES ±1°  
 3. PLACE DECIMALS & 010  
 4. INTERPRET DRAWING PER MIL-D-10000  
 5. REMOVE ALL BURRS AND SHARP EDGES  
 6. CONCENTRICITY MACHINED DIAMETERS 0.10 FIM  
 7. DIMENSIONAL LIMITS APPLY BEFORE PROCESSES  
 8. PARENTHESES INFO FOR REF ONLY

HOLE TOLERANCE:  
 013 THRU .004 136 THRU .006 251 THRU .006  
 125 THRU .001 250 THRU .001 300 THRU .001  
 501 THRU .008 751 THRU .010 1001 THRU .012  
 1201 THRU .001 1200 THRU .001 2100 THRU .001

REV	IDENT	ESPEC	NO	ADDITIONAL	NOTES



TEXAS INSTRUMENTS  
INCORPORATED

DATE 07/24/79

LIST OF MATERIAL

PAGE 1 of

PART NUMBER  
**LM0937510-0001** REV  
H

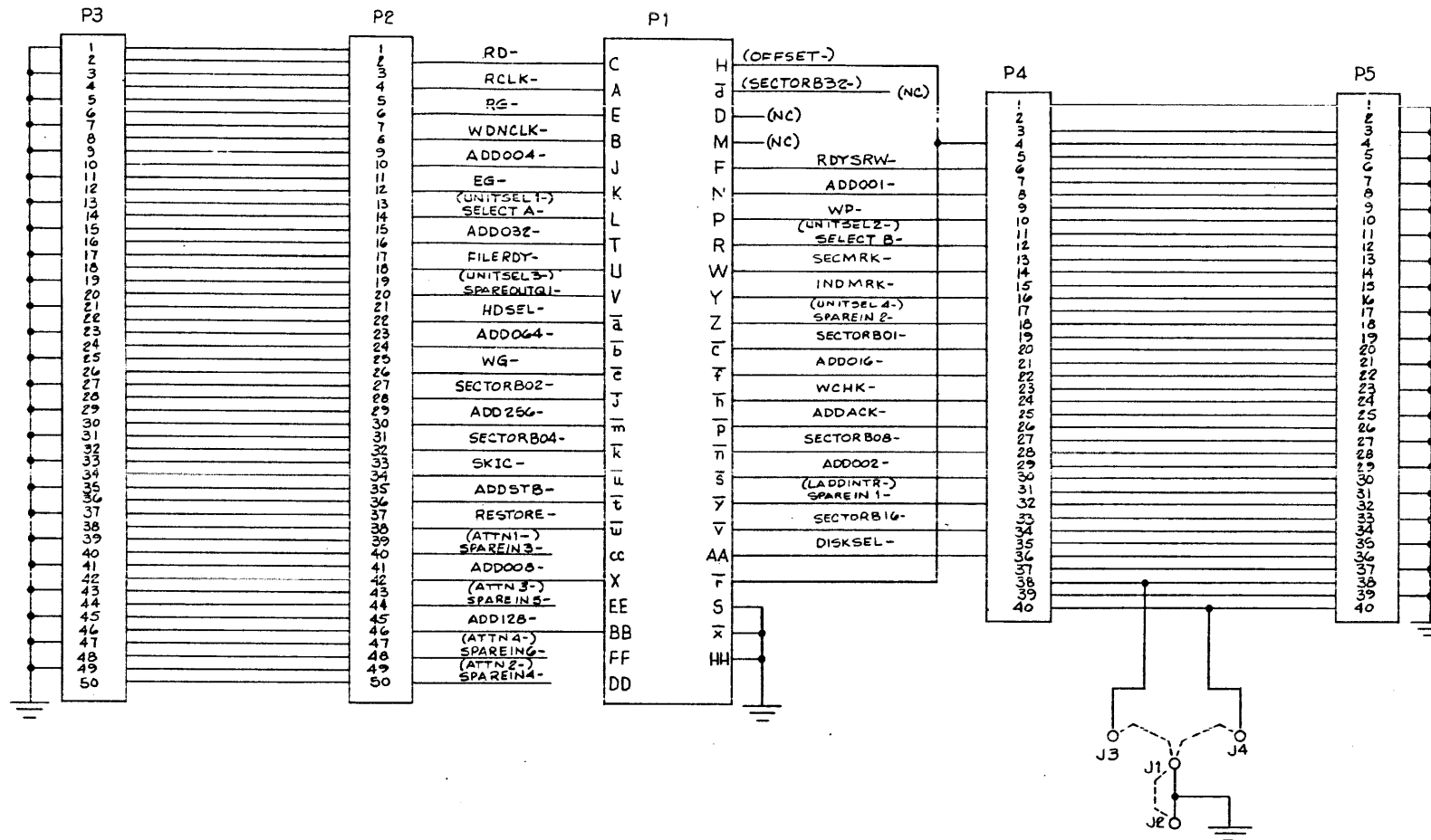
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0001	0001.000	EA		0937511-0001	PWB,CABLE ADAPTER	
0002	0001.000	EA		0972713-0001	PLUG, JUMPER, I.C., 0.300 INCH	
0003	0004.000	EA		0996864-0001	CONNECTOR, SOCKET PCB	022526-75060-007
0003A					J1 J2 J3 J4	
0004	0001.000	EA		0972781-0002	CONNECTOR, RECP 50 CONTACTS, RECTANGULAR	081312-MRAC50SJ6-8113
0004A					P1	
0006	0001.000	EA		0975377-0001	STRAIN RELIEF, AMPEX SERIES 400	
0007	0002.000	FA		0996604-0005	HEADER STR PIN 50 CONTACTS .062 THK	076381-3433-2002
0007A					P2 P3	
0008	0002.000	FA		0972989-0030	SCREW 6-32 X .500 PAN HEAD CRES	
0009	0004.000	EA		0411027-0806	WASHER .156 X .375 X .049 FLAT CRES	QPL - MS15795-806
0010	0002.000	EA		0996604-0004	HEADER STR PIN 40 CONTACTS .062 THK	076381-3432-2002
0010A					P4 P5	
0011	0002.000	FA		0411104-0136	WASHER, LOCK-SPRING, HELICAL, #6	QPL - MS35338-136
0012	0002.000	FA		0416453-0022	NUT, PLAIN 6-32 UNC-2B HEX CRES, SMALL	QPL - NAS671C6
0013	REF	FA		0937512-9901	SCHEM, CABLE ADAPTER, 10 MEGA BYTE DISK	
0014	REF	FA		0941916-9901	TEST PROCEDURE, OMNI INTERFACE NO. 2	

DRAFTSMAN	DATE	CDR/DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE
		<i>J. Kobby</i>	<i>8-1-79</i>			CABLE ADAPTER, 10 MEGA BYTE DISK
APP'D MFG	DATE	APP'D PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO
						7506
						PART NUMBER
						<b>LM0937510-0001</b>
						REV
						H

NOTES: UNLESS OTHERWISE SPECIFIED:

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	CN425375(E) C. Ferguson	6-9-77	[Signature]
B	CN459291(E) R. P. [Signature]	12-2-77	[Signature]



SEC NO	IDENT	F SPEC	NO	ADDITIONAL CLASSIFICATION	NOTES

QTY	ITEM NO	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION	NOTES
PARTS LIST					
			UNLESS OTHERWISE SPECIFIED * DIMENSIONS ARE IN INCHES * TOLERANCES ANGLES ±1° 3 PLACE DECIMALS ±.010 2 PLACE DECIMALS ±.02 * INTERPRET DRAWING PER MIL-D-1000 * REMOVE ALL BURRS AND SHARP EDGES * CONCENTRICITY MACHINED DIAMETERS .010 P/M * DIMENSIONAL LIMITS APPLY BEFORE PROCESSES * PARENTHESES FOR REF ONLY		
			HOLE TOLERANCE .013 - .004    .126 - .005    .251 - .006 THRU - .001    THRU - .001    THRU - .001 .501 - .008    .751 - .010    1.001 - .012 THRU - .001    THRU - .001    THRU - .001		
			TEXAS INSTRUMENTS INCORPORATED Dallas, Texas		
			SCHEMATIC, CABLE ADAPTER, 10 MEGA BYTE DISK		
			D96214    937512		
			APPLICATION    USED ON		

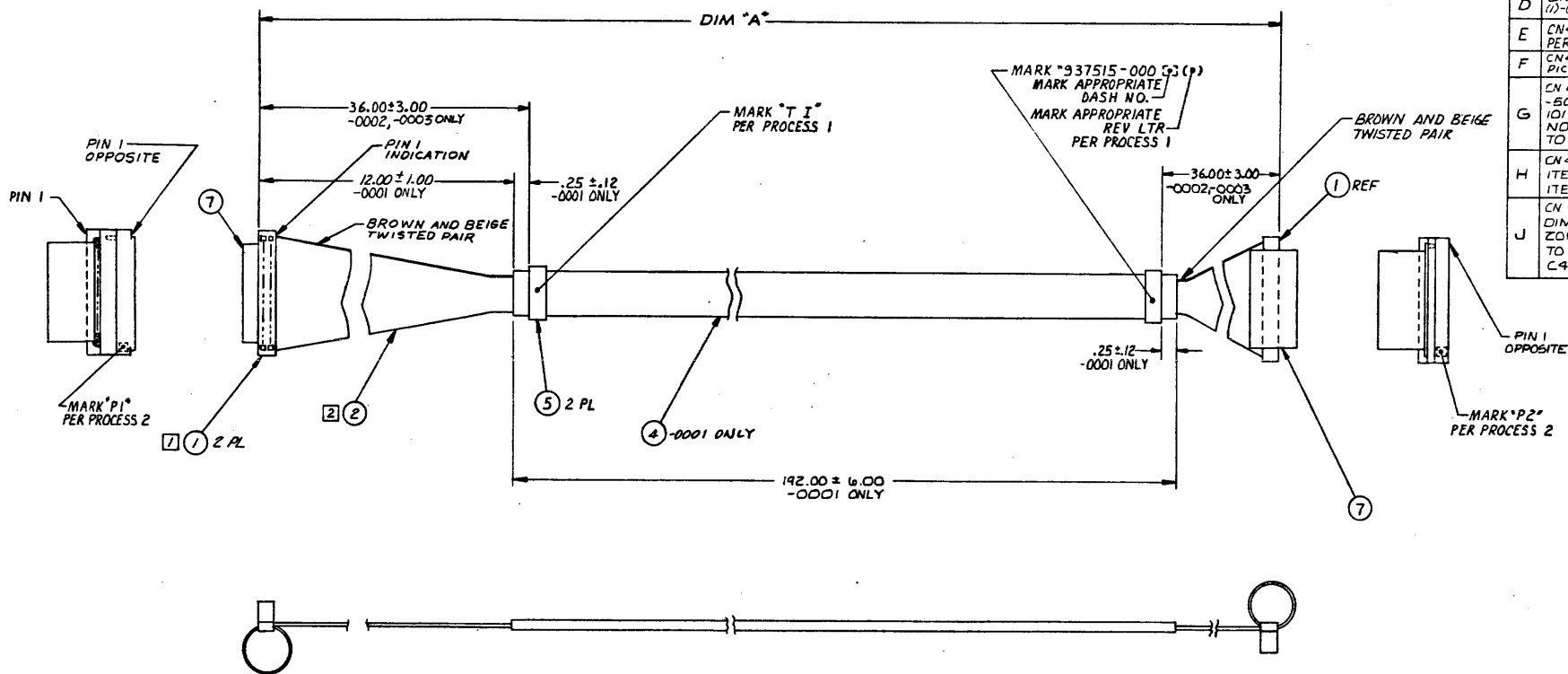
NOTES: UNLESS OTHERWISE SPECIFIED:

- 1 PIN 1 AND P2 MUST BE CRIMPED TO THE FLAT UNTWISTED AREAS OF THE CABLE (ITEM 2)
- 2 MATERIAL (ITEM 2) INITIAL CUT TO BE AT CENTER OF 2 INCH FLAT SECTION, OVERALL LENGTH TO BE AS SHOWN IN DIMENSIONAL TABLE. DIMENSION "A" IS NOMINAL AND IS FOR REFERENCE ONLY

- 3 ITEM 101 IN -0001, -0002 & -0003 LMS CONSISTS OF BULK CABLE ASSEMBLY MATERIAL.

ZONE	LTR	DESCRIPTION	DATE	APPROVED
K		CN464121 (D) (1) CREATED -0003 -5003 LMS & ADDED RESP COLUMNS TO PN BLOCK (2) ADDED NHA 226B02 5 - PROJ 700B (3) ADDED -0003 TO NOTE (3) DIM 36.00 ± 6.00 IN ZONE 4 (4) ADDED (3) TO -0003 IN PN BLOCK	2-28-80	J.R.W.

REV	DESCRIPTION	DATE	APPROVED
A	CN424809 (C) (1) REVISED -0003 EXTENSIVE ENGR CHANGES	11-9-78	J.R.W.
B	CN424814 (C) (1) REVISED -0003 QTY WAS 15.5 (11.5 RESP) TITLE DESCRIPTION WAS 15 FT ON LMS (3) DIM AB 60 CN-0001 WAS 155.00 ± 5.00 90.00 ± 6.00 & 90.00 ± 6.00 RESP	3-10-78	J.R.W.
C	CN440480 (C) (1) CHANGED PRESENTATION OF P1 & P2 TO SHOW SLOT (2) REVERSED TRIANGLE ON P1, REMOVED TRIANGLE ON P2 (3) ADDED PROJECTION OF P1 & P2	7-26-78	J.R.W.
D	CN443077B (C) (1) REVISED -0001 LMS, ITEM 3 PN WAS 417177-B	11-13-78	J.R.W.
E	CN446556 (E) (1) REVISED PER EXTENSIVE ENGR CHANGES	4-6-79	E. King
F	CN448358 (C) (1) REVISED PICT 3-7-C-7, C-8 ROTATED CONNECTOR	5-10-79	E. King
G	CN457441 (C) (1) CREATED -5001 & -5002 LMS (2) ADDED ITEM 101 TO -5001, -5002 (3) ADDED NOTE 3 (4) ADDED PART NUMBER TO BLOCK	10-3-79	E. King
H	CN448377 (E) (1) DELETED ITEMS 3 AND 4, LM-5001 (2) LM-5001 ITEM 4 WAS 972435-0003	10-3-79	E. King
J	CN447468 (C) (1) ADDED DIMENSION 192.00 ± 6.00 -0001 ONLY IN ZONE B5 (2) ADDED -0002 ONLY TO DIMENSION 36.00 ± 3.00 IN ZONE C4.	10-3-79	E. King



937515-5003	BULK CABLE ASSY MATL FOR -0003	
937515-5002	BULK CABLE ASSY MATL FOR -0002	
937515-5001	BULK CABLE ASSY MATERIAL FOR -0001	
3 937515-0003	CABLE ASSY, 40 PIN, 10 FT	120.00 ± 6.00
3 937515-0002	CABLE ASSY, 40 PIN, 6 FT	80.00 ± 6.00
3 937515-0001	CABLE ASSY, 40 PIN, 20 FT	240.00 ± 12.00
PART NUMBER	DESCRIPTION	DIM "A" [2]

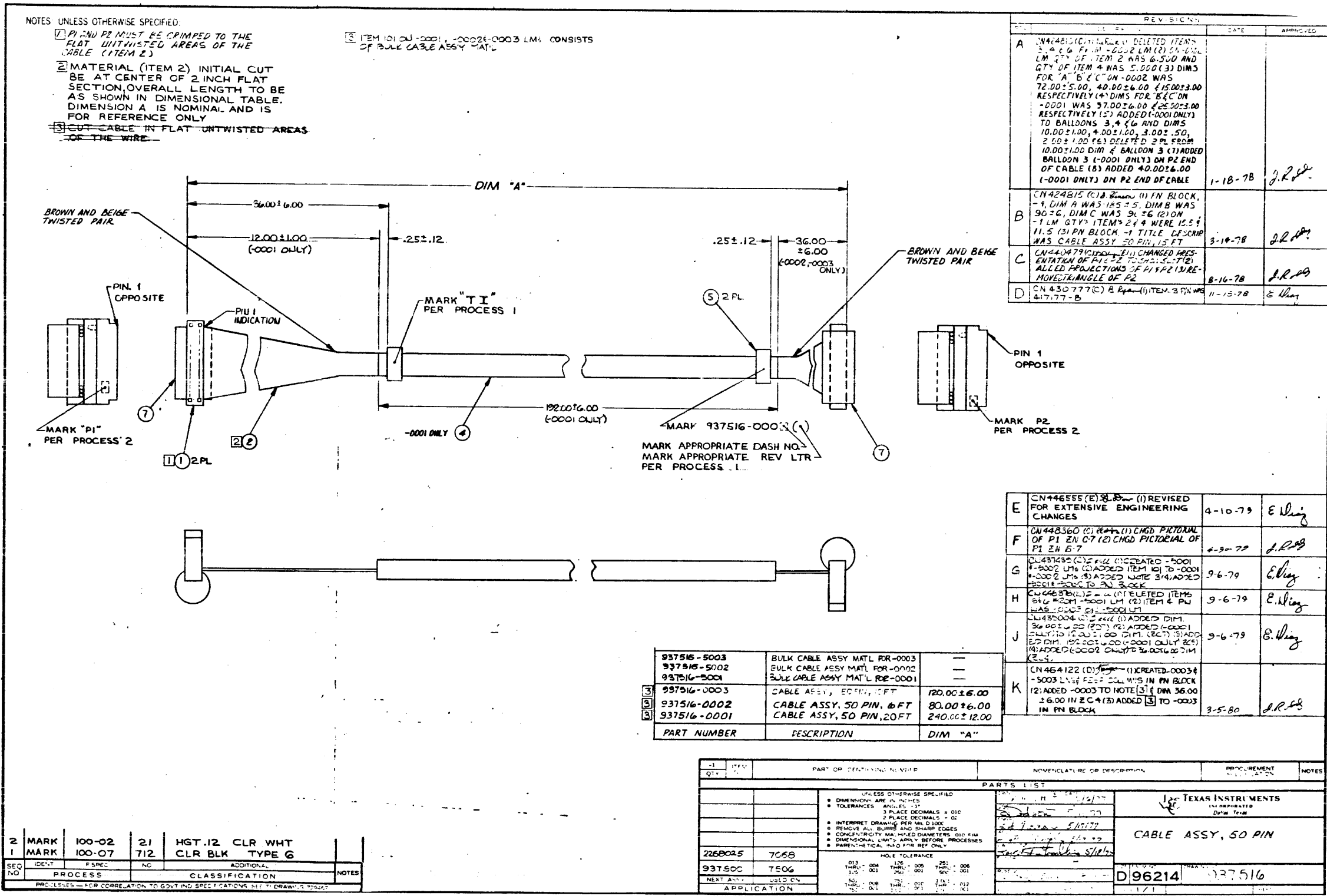
2	MARK	100-02	21	HGT 12 CLR WHT
1	MARK	100-07	712	CLR BLACK TYPE G
SEQ NO	PROCESS	NO	ADDITIONAL INFORMATION	NOTES

QTY	ITEM NO	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION	NOTES
			PARTS LIST		
			UNLESS OTHERWISE SPECIFIED		
			• DIMENSIONS ARE IN INCHES		
			• TOLERANCES ANGLES ±1°		
			• 3 PLACE DECIMALS ± .010		
			• 2 PLACE DECIMALS ± .005		
			• INTERPRET DRAWING PER MIL D 1000		
			• REMOVE ALL BURRS AND SHARP EDGES		
			• CONCENTRICITY MACHINED DIAMETERS .010 PIM		
			• DIMENSIONAL LIMITS APPLY BEFORE PROCESSES		
			• PARENTHESES INFO FOR REF ONLY		
			HOLE TOLERANCE		
			.013 THRU .004 1.36 ± .005 .751 THRU .008		
			.125 ± .001 250 ± .001 500 ± .001		
			NEXT ASSY USED ON		
			.501 ± .008 .751 ± .010 1.001 ± .012		
			1.500 ± .001 1.125 ± .001 2.500 ± .001		
			APPLICATION		
			PARTS LIST		
			CABLE ASSY, 40 PIN		
			D96214		



TEXAS INSTRUMENTS INCORPORATED		DATE 02/14/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0937515-5002		REV K		
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0002	00006.667	FT		0556128-0007	CABLE,FLAT,20 TWISTED PR,1.950 WICE	SSM -455-248-40						
0005	00002.000	EA		0418201-0060	STRAP,MARKER,ADJUSTABLE,PLASTIC	QPL-MS-3368-1-98						
DRAFTSMAN		DATE	CDR. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE BULK CABLE ASSEMBLY MATERIAL FOR -0002					
APPROV. ENG.		DATE	APPR. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM0937515-5002				REV K

TEXAS INSTRUMENTS INCORPORATED		DATE 02/14/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0937515-5003		REV K		
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0002	00010.500	FT		0556128-0007	CABLE,FLAT,20 TWISTED PR,1.950 WICE	SSM -455-248-40						
0005	00002.000	EA		0418201-0060	STRAP,MARKER,ADJUSTABLE,PLASTIC	QPL-MS-3368-1-98						
DRAFTSMAN		DATE	CDR. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE BULK CABLE ASSEMBLY MATERIAL FOR -0003					
APPROV. ENG.		DATE	APPR. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM0937515-5003				REV K



REV	REV. SICK	DATE	APPROVED
A	CN424815 (C) 1. DELETED ITEMS 3, 4 & 6 FROM -0002 L.M. (2) CN424815 L.M. QTY OF ITEM 2 WAS 6.500 AND QTY OF ITEM 4 WAS 5.000 (3) DIMS FOR 'A' 'B' 'C' ON -0002 WAS 72.00 ± 5.00, 40.00 ± 6.00 & 15.00 ± 3.00 RESPECTIVELY (4) DIMS FOR 'B' 'C' ON -0001 WAS 37.00 ± 6.00 & 25.00 ± 3.00 RESPECTIVELY (5) ADDED (0001 ONLY) TO BALLOONS 3, 4 & 6 AND DIMS 10.00 ± 1.00, 4.00 ± 1.00, 3.00 ± .50, 2.00 ± 1.00 (6) DELETED 3 PL FROM 10.00 ± 1.00 DIM & BALLOON 3 (7) ADDED BALLOON 3 (-0001 ONLY) ON P2 END OF CABLE (8) ADDED 40.00 ± 6.00 (-0001 ONLY) ON P2 END OF CABLE	1-18-78	J.R.S.
B	CN424815 (C) 1. IN BLOCK -1, DIM A WAS 185 ± 5, DIM B WAS 90 ± 6, DIM C WAS 96 ± 6 (2) ON -1 L.M. QTY OF ITEM 2 & 4 WERE 10.5 & 11.5 (3) IN BLOCK -1 TITLE DESCRIP WAS CABLE ASSY 50 PIN, 15 FT	3-19-78	J.R.S.
C	CN424815 (C) 1. CHANGED REPRESENTATION OF FIG 2 TO SHG 5-17 (2) ADDED PROJECTIONS OF FIG 2 IN VIEW - MOVE TRIANGLE OF FIG 2	8-16-78	J.R.S.
D	CN 430777 (C) 1. EXPANDED ITEM 3 FROM 47.77 - B	11-15-78	E. King

E	CN446555 (E) 1. REVISED FOR EXTENSIVE ENGINEERING CHANGES	4-10-79	E. King
F	CN448360 (C) 1. CHG PICTORIAL OF P1 EN C7 (2) CHG PICTORIAL OF P1 EN E-7	4-9-79	J.R.S.
G	CN437435 (C) 1. INCREASED -0001 & -0002 LMS (2) ADDED ITEM 101 TO -0001 & -0002 LMS (3) ADDED NOTE 3 (4) ADDED PROJECTIONS TO EN VIEW	9-6-79	E. King
H	CN442836 (C) 1. DELETED ITEMS 816 & 821 -0001 L.M. (2) ITEM 4 PIN WAS -0003 (3) -0001 L.M.	9-6-79	E. King
J	CN435004 (C) 1. ADDED DIM. 36.00 ± 6.00 (2) (3) ADDED (-0001 ONLY) TO 12.00 ± 1.00 DIM. (4) ADDED 50 DIM. 192.00 ± 6.00 (-0001 ONLY) (5) (6) ADDED (-0002 ONLY) TO 36.00 ± 6.00 DIM (7) -1.	9-6-79	E. King
K	CN464122 (C) 1. INCREASED -0003 & -0003 LMS FROM 20 LMS IN PIN BLOCK (2) ADDED -0003 TO NOTE 3 (3) DIM 36.00 ± 6.00 IN Z C (4) ADDED 3 TO -0003 IN PIN BLOCK	3-5-80	J.R.S.

PART NUMBER	DESCRIPTION	DIM "A"
937516-5003	BULK CABLE ASSY MATL FOR -0003	—
937516-5002	BULK CABLE ASSY MATL FOR -0002	—
937516-5001	BULK CABLE ASSY MATL FOR -0001	—
937516-0003	CABLE ASSY, 50 PIN, 15 FT	120.00 ± 6.00
937516-0002	CABLE ASSY, 50 PIN, 6 FT	80.00 ± 6.00
937516-0001	CABLE ASSY, 50 PIN, 20 FT	240.00 ± 12.00

2 MARK	100-02	21	HGT .12 CLR WHT		
1 MARK	100-07	712	CLR BLK TYPE 6		
SEQ NO	IDENT	FSPEC	NO	ADDITIONAL	NOTES
	PROCESS			CLASSIFICATION	

QTY	ITEM NO	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT ACTION	NOTES												
PARTS LIST																	
UNLESS OTHERWISE SPECIFIED: • DIMENSIONS ARE IN INCHES • TOLERANCES ANGLES ± .1° • 3 PLACE DECIMALS ± .012 • 2 PLACE DECIMALS ± .01 • INTERPRET DRAWING PER MIL D1000 • REMOVE ALL BURRS AND SHARP EDGES • CONCENTRICITY MAX HOLE DIAMETERS .010 RIM • DIMENSIONAL LIMITS APPLY BEFORE PROCESSES • PARENTHETICAL INFO FOR REF ONLY																	
HOLE TOLERANCE																	
<table border="1"> <tr> <td>003 - 004</td> <td>126 - 005</td> <td>751 - 006</td> </tr> <tr> <td>127 - 001</td> <td>250 - 001</td> <td>500 - 001</td> </tr> <tr> <td>50 - 008</td> <td>751 - 010</td> <td>711 - 012</td> </tr> <tr> <td>752 - 011</td> <td>711 - 013</td> <td>711 - 014</td> </tr> </table>						003 - 004	126 - 005	751 - 006	127 - 001	250 - 001	500 - 001	50 - 008	751 - 010	711 - 012	752 - 011	711 - 013	711 - 014
003 - 004	126 - 005	751 - 006															
127 - 001	250 - 001	500 - 001															
50 - 008	751 - 010	711 - 012															
752 - 011	711 - 013	711 - 014															
2258025 7068 937500 7506			TEXAS INSTRUMENTS INCORPORATED Dallas, Texas CABLE ASSY, 50 PIN D96214 937516														



TEXAS INSTRUMENTS INCORPORATED		DATE 02/14/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0937516-0001		REV K		
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00002.000	EA		0996261-0008	CONNECTOR, RECEPT, 50 POS W/C STRAIN RELIEF	000779-88379-8						
0001A					P1 P2							
0007	00002.000	EA		2210259-0005	TAB, PULL, PLASTIC LCCP, 2.500 L, 50 PCS	000779-88450-9						
0101	00001.000	EA		0937516-5001	BULK CABLE ASSEMBLY MATERIAL FOR -0001							
DRAFTSMAN		DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE					
			J. Kohler	2-15-80			CABLE ASSY, 50 PIN, 20FT					
APPRO. MFG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER		REV		
							7506	LM 0937516-0001		K		

TEXAS INSTRUMENTS INCORPORATED		DATE 02/14/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0937516-0002		REV K		
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00002.000	EA		0996261-0008	CONNECTOR, RECEPT, 50 PCS W/C STRAIN RELIEF	000779-88379-8						
0001A					P1 P2							
0007	00002.000	EA		2210259-0005	TAB, PULL, PLASTIC LCCP, 2.500 L, 50 PCS	000779-88450-9						
0101	00001.000	EA		0937516-5002	BULK CABLE ASSEMBLY MATERIAL FOR -0002							
DRAFTSMAN		DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE					
							CABLE ASSY, 50 PIN, 6FT					
APPRO. MFG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER		REV		
								LM 0937516-0002		K		

TEXAS INSTRUMENTS INCORPORATED		DATE 02/14/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0937516-0003		REV K		
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00002.000	EA		0996261-0008	CONNECTOR, RECEPT, 50 POS W/C STRAIN RELIEF	000779-88379-8						
0001A					P1 P2							
0007	00002.000	EA		2210259-0005	TAB, PULL, PLASTIC LOOP, 2.500 L, 50 POS	000779-88450-9						
0101	00001.000	EA		0937516-5003	BULK CABLE ASSEMBLY MATERIAL FOR -0003							
DRAFTSMAN		DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE					
							CABLE ASSY, 50 PIN, 10FT					
APPRO. MFG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER		REV		
								LM 0937516-0003		K		

TEXAS INSTRUMENTS INCORPORATED		DATE 02/14/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0937516-5001		REV K		
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0002	00020.000	FT		0996128-0008	CABLE #28 AWG 7-STRAND TWISTED PAIRS FL	SSW - 455-248-50						
0004	00016.500	FT		0972435-0104	INSUL SLEEVING, 5/8" ID ZIP TUBE, PVC	007240-2T0625432080						
0005	00002.000	EA		0418201-0060	STRAP, MARKER, ADJUSTABLE, PLASTIC	QPL-MS-3368-1-98						
DRAFTSMAN		DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE					
							BULK CABLE ASSEMBLY MATERIAL FOR -0001					
APPRO. MFG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER		REV		
								LM 0937516-5001		K		

TEXAS INSTRUMENTS INCORPORATED		DATE 02/14/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0937516-5002		REV K	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0002	0007.500	FT		0996128-0008	CABLE #28 AWG 7-STRAND TWISTED PAIRS FL	SSM - 455-248-50					
0005	0002.000	EA		0418201-0060	STRAP, MARKER, ADJUSTABLE, PLASTIC	QPL-MS-3368-1-98					

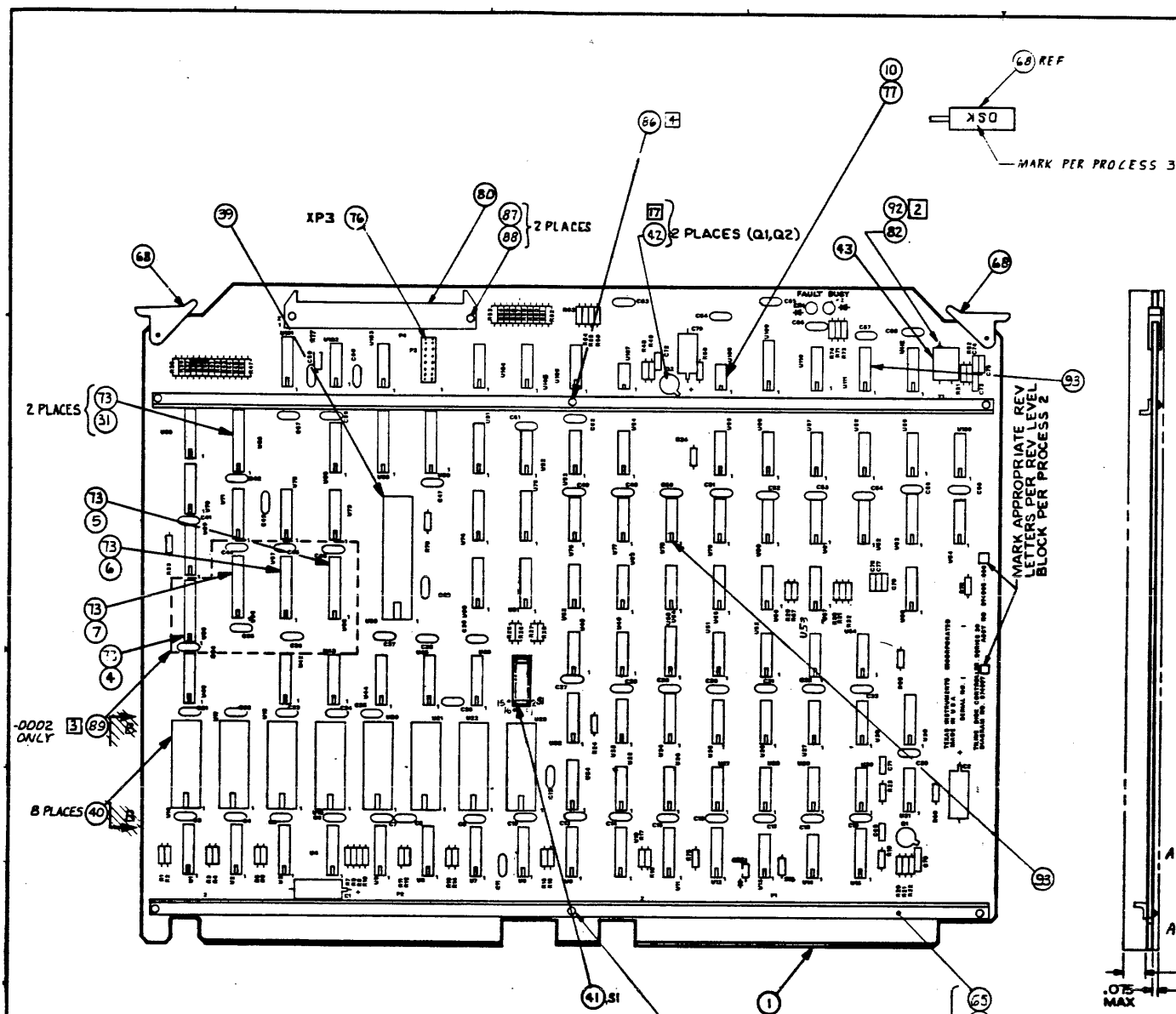
  

DRAFTSMAN	DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	BULK CABLE ASSEMBLY MATERIAL FOR -0002				
APP'D. MFG.	DATE	APP'D. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM0937516-5002				
							REV K				

TEXAS INSTRUMENTS INCORPORATED		DATE 02/14/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0937516-5003		REV K	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0002	0010.500	FT		0996128-0008	CABLE #28 AWG 7-STRAND TWISTED PAIRS FL	SSM - 455-248-50					
0005	0002.000	EA		0418201-0060	STRAP, MARKER, ADJUSTABLE, PLASTIC	QPL-MS-3368-1-98					

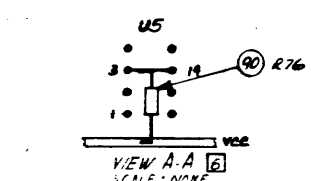
  

DRAFTSMAN	DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	BULK CABLE ASSEMBLY MATERIAL FOR -0003				
APP'D. MFG.	DATE	APP'D. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM0937516-5003				
							REV K				

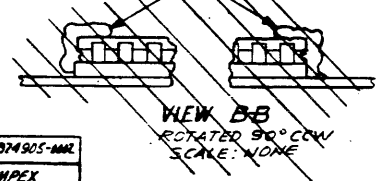


- NOTES:
1. TO PREVENT SOLDER FROM WICKING DOWN CONNECTOR FINGERS WHEN SOLDERING, MASK ALL CONNECTOR FINGERS ON BOTH SIDES OF BOARD.
  2. FIT ITEM 82 ON ITEM 43, APPLY ITEM 92 UNDER 43
  3. ITEMS 4, 5, 6 AND 7 ARE REPLACED WITH ITEM 89 ON -0002 ASSY. C34, C35, C36, C44, C45 AND C46 ARE DELETED ON -0002 ASSY
  4. ITEM 86 IS INSTALLED ON THE CONDUCTOR SIDE OF THE PWB TO INSULATE CONDUCTOR RUNS FROM SHORTING OUT ON THE METAL WASHER
  5. SEAL ITEM 67 PER PROCESS 4
  6. FOR PWB'S A,B,C REWORK PER VIEW A-A, INSTALL RESISTOR BETWEEN J5 PIN 3, H TO VCC BUS.
  7. AFTER TEST, ADD HOT MOUNT LOCATIONS 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450 TO HOLD PACKAGE IN PLACE. SEE VIEW B-B
  8. WORK RELIABLE FOR STAGE CODE ASSY ONLY
- REV LEVEL BLOCK PER PROCESS 2

ZONE	LTR	DESCRIPTION	DATE	APPROVED
A	022500	ITEM 92 QTY 13 WAS 7, 6 QTY OF ITEM 13, 96 WAS 7, 6 - UPDATED REV LEVEL BLK	11/76	[Signature]
B	022891	ADDED NOTE 6 VIEW A-A (2 LIM) QTY OF ITEM 90 WAS 2 (3) ITEM 50 WAS 972996-0016	11/76	[Signature]
C	022926	FOR RELIABLE ENGR CHANGES/UPDATED REV LEVEL BLOCK	5/21/76	[Signature]
D	022926	ADDED VIEW B-B & NOTE 7 TO ADD (2) ADDED ITEM 92 TO LIM FOR ALL DASH NO. (2) UPDATED REV LEVEL BLOCK	8/19/76	[Signature]
E	022926	ADDED VIEW B-B & NOTE 7 TO ADD (2) ADDED ITEM 92 TO LIM FOR ALL DASH NO. (2) UPDATED REV LEVEL BLOCK	8/19/76	[Signature]
F	022926	ADDED VIEW B-B & NOTE 7 TO ADD (2) ADDED ITEM 92 TO LIM FOR ALL DASH NO. (2) UPDATED REV LEVEL BLOCK	11-76	[Signature]
G	022926	ADDED VIEW B-B & NOTE 7 TO ADD (2) ADDED ITEM 92 TO LIM FOR ALL DASH NO. (2) UPDATED REV LEVEL BLOCK	11-76	[Signature]
H	022926	ADDED VIEW B-B & NOTE 7 TO ADD (2) ADDED ITEM 92 TO LIM FOR ALL DASH NO. (2) UPDATED REV LEVEL BLOCK	11-76	[Signature]
J	022926	ADDED VIEW B-B & NOTE 7 TO ADD (2) ADDED ITEM 92 TO LIM FOR ALL DASH NO. (2) UPDATED REV LEVEL BLOCK	11-76	[Signature]



PART NUMBER	DESCRIPTION
974905-5002	AUTO INSERTED PARTS LIST FOR 974905-NMR
974905-0004	TILINE DISK CONTROLLER, AMPEX
974905-5001	AUTO INSERTED PARTS LIST FOR 974905-NMR
974905-0002	TILINE DISK CONTROLLER, 2K PRDM
974905-0001	TILINE DISK CONTROLLER, 4K PRDM



REVISION LEVEL	TEST PROCEDURE	BOARD	SCHEMATIC	ASSEMBLY
	TEST PROCEDURE (974905)	BOARD (974906-0001)	SCHEMATIC (974907-9901)	ASSEMBLY (974905)

- PROCESSES:
1. SOLDER PER F-124 AND/OR F-127, METHOD 1
  2. RUBBER STAMP F-100, HEIGHT .09, COLOR BLACK.
  3. HOT STAMP PER F-100, HEIGHT .12, COLOR BLACK.
  4. SEAL PER F-650 USING ITEMS 7 AND 83
- REV LEVEL BLOCK CONT B-A8)

REV	STATUS	REV	AT	T
2		1		0
1		0		0
0		0		0

OF SHEETS SHEET 2 2

UNLESS OTHERWISE SPECIFIED
REMOVE ALL BURRS AND SHARP EDGES
CONCENTRICITY MACHINED DIAMETERS .010 FIR
DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING
IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ANGLES ±1°
3 PLACE DECIMALS ±.010
2 PLACE DECIMALS ±.02

DATE	DATE
21 OCT 76	21 OCT 76

TXI	DATE
TXI	21 OCT 76

TILINE DISK CONTROLLER, SERIES 30

SIZE CODE IDENT NO DRAWING NO  
D 96214 974905

NOTES: UNLESS OTHERWISE SPECIFIED:  
 NOTE 10 CONT.  
 DASH CONNECTOR FOR WHICH LOOKS LIKE

9. FOR 974905-0004 ASSEMBLY, SEE REWORK PROCEDURE 975386.  
 10. 974905-0004 REQUIRES TWO SYSTEM TESTS AND TWO G.C. STAMPS.  
 11. REWORK ASSEMBLIES USING REV C AND EARLIER PWB AS FOLLOWS:  
 A. CUT AND ISOLATE THE FOLLOWING IC PINS FROM ETCH. LEAVE ENOUGH IC PIN TO CONNECT WIRE IN STEP B BELOW.  
 U80-10, U90-2, U84-2  
 B. ADD THE FOLLOWING WIRES ON IC SIDE. USE ITEM B9:  
 U77-8 TO U80-10 (IC PIN)  
 U77-9 TO U83-4  
 U77-10 TO U81-9  
 U78-3 TO U61-12  
 U80-3 TO U90-2 (IC PIN)  
 U86-3 TO U84-2 (IC PIN)  
 12. REWORK ASSEMBLIES USING REV C AND EARLIER PWB AS FOLLOWS:  
 A. CUT AND ISOLATE THE FOLLOWING IC PINS FROM ETCH. LEAVE ENOUGH IC PIN TO CONNECT WIRE IN STEP C BELOW.  
 U62-1, U63-4, U63-12, U69-15  
 B. ADD THE FOLLOWING WIRES ON COMPONENT SIDE  
 U75-1 TO U79-2 TO U79-4  
 C. ADD THE FOLLOWING WIRES ON IC SIDE.  
 U62-8 TO U79-1  
 U79-4 TO U63-12 (IC PIN)  
 U79-5 TO U63-1  
 U79-6 TO U62-1 (IC PIN)  
 U62-2 TO U63-4 (IC PIN)  
 U63-3 TO U49-1  
 U63-3 TO U49-2  
 U49-3 TO U60-15 (IC PIN)  
 13. REWORK FOR ASSEMBLIES USING REV F PWB  
 A. CUT IC PIN U74-11  
 B. ADD WIRE (ITEM U5) FROM U74-11 TO U89-7  
 14. R67 IS SELECTED BY TEST AND MAY OR MAY NOT BE PRESENT  
 15. REWORK FOR ASSEMBLIES USING F REV PWB  
 A. VERIFY U53 IS INSTALLED AND THAT U83 IS A 7414  
 B. CUT AND ISOLATE IC PIN U83-1 FROM ETCH. LEAVE ENOUGH IC PIN TO ADD WIRE BELOW.  
 C. ON COMPONENT SIDE OF PWB, CUT ETCH 2 PLACES TO ISOLATE U11-10 FROM VCC. (ETCH IS UNDER IC SOCKET IF SOCKET IS INSTALLED)  
 ISOLATE PIN 10. CUT ETCH 2 PLACES

D. ADD THE FOLLOWING WIRES TO ASSY.  
 U82-5 TO U11-10 (LEAD SIDE)  
 U80-11 TO U83-1 (IC PIN)  
 U80-12 TO U95-0  
 U80-13 TO U53-6  
 U94-3 TO U53-2 TO U53-1  
 U94-2 TO U53-3  
 U53-4 TO U54-14  
 U53-7 TO HOLE IN GND ETCH ABOVE U53-7

- ITEM 107 IN THE 974905-0001 & -0002 LMS FOR AUTO INSERTED PARTS CONTAINED IN THE 974905-5001 & -5002 LMS.
- ITEM 42 IS TO BE MECHANICALLY MACHINE PREPPED PRIOR TO INSERTION
- REWORK ASSEMBLIES USING REV C AND EARLIER PWB AS FOLLOWS:  
 A. CUT IC PINS U60-15, U88-13, U26-5, U28-1, U30-3.  
 B. REMOVE TOP EDGE STIFFENER AND NOTCH THE INSULATOR IN THE AREA BETWEEN U92 AND U93 TO ALLOW A WIRE TO BE ROUTED UNDER STIFFENER.  
 C. USING 30 GA WIRE ADD THE FOLLOWING WIRES:  
 U163-5 TO U106-12 (CONDUCTOR SIDE)  
 U163-9 TO U106-13 (CONDUCTOR SIDE)  
 U104-11 TO U60-15 (IC PIN) (COMPONENT SIDE - ROUTE WIRE BETWEEN U92 AND U93) (COMPONENT SIDE)
- U88-15 (IC PIN) TO U49-2  
 U26-2 TO U49-1  
 U30-15 TO U49-3  
 U30-3 (IC PIN) TO U37-3  
 U37-4 TO U38-3  
 U38-1 TO U51-13  
 U38-5 TO U29-2  
 U38-4 TO U38-4  
 U38-2 TO U27-9 (COMPONENT SIDE)
- RE-INSTALL TOP STIFFENER AND INSULATOR CARE TO ROUTE WIRE GOING TO U106-11 IN NOTCH CUT IN INSULATOR ENSURE THAT THE INSULATION IS NOT DAMAGED.

REV	DESCRIPTION	DATE	APPROVED
AC	CN 425053 (D) R. R. (1) ON ALL LMS 12-22-77	12-22-77	R. R.
AD	CN 425044 (C) R. R. (1) ON LMS 1 & 2 ITEM 22 QTY WAS 10. ITEM 26 P/N WAS 22222-716312. SH1 ADDED U53 BETWEEN U52 & U54 (3) ADDED NOTE 15 (4) UPDATED REV LEVEL BLOCK	11-30-77	R. R.
AE	CN 425093 (E) G. M. (1) ON LMS ITEM 67 PART NUMBER WAS 972988-0003 (2) UPDATED REV LEVEL BLK	1-9-78	R. R.
AF	CN 424953 (B) A. R. (1) ON SH2, NOTE 15 D. LINE 2 WAS U106-5 TO U11-10 (LEAD SIDE) (2) UPDATED REV LEVEL BLOCK	2-24-78	R. R.
AG	CN 428307 (B) D. R. (1) ON CN-0004LM 3-10-78	3-10-78	R. R.
AH	CN 441314 (C) J. R. (1) ADDED ITEM 107 TO 974905-0001 & -0002 LMS (2) REVISED 974905-0001 & -0002 LMS AND CREATED 974905-5001 & -5002 LMS (3) ON SH 2, ADDED NOTES 16 (4) UPDATED REV LEVEL BLOCK	7-12-78	R. R.
AJ	CN 442821 (C) R. R. (1) ON -1 & -2 LMS 8-29-78	8-29-78	R. R.
AK	CN 446466 (B) J. R. (1) NOTE 12A DELETED U160-15 & 12C DELETED U163-5 TO U49-1, U63-9 TO U49-2, U49-3 TO U60-15 (IC PIN). (2) ADDED NOTE 18. (3) UPDATED REV LEVEL BLOCK	12-21-78	R. R.
AL	CN 442767 (C) J. R. (1) ON -0001 & -0002 LMS. ADDED ITEM 49, ON -5001 & -5002 LMS QTY ITEM 49 WAS 32 (2) UPDATED REV LEVEL BLOCK	12-21-78	R. R.
AM	CN 441363 (C) J. R. (1) ON -0001, -0002, -5001, & -5002, REVISED LMS PER EXTENSIVE ENGR. CHANGES (2) UPDATED REV LEVEL BLOCK	12-21-78	R. R.
AN	CN 437783 (C) J. R. (1) ON -5001 & -5002 LMS. QTY ITEM 46 WAS 7, QTY ITEM 50 WAS 2. ADDED ITEM 108 & 109 (2) ON -0001 & -0002 LMS. ITEM 62 WAS 972929-0397. ITEM 61 WAS 972929-0385 (3) UPDATED REV LEVEL BLOCK	12-21-78	R. R.
AO	CN 451937 (D) J. R. (1) ON LMS-0001 (5-29-79) E. N. (2) QTY ITEM 65 P/N WAS 966486-1 (2) UPDATED REVISION LEVEL BLOCK	5-29-79	E. N.
AP	CN 451783 (C) J. R. (1) ON LMS -0001 & -0002. ITEM 73 WAS 539544-10, ITEM 77 WAS 539544-2, ITEM 77 WAS 539544-6, ITEM 93 WAS 539544-1 (2) UPDATED REVISION LEVEL BLOCK	5-29-79	J. R.
AQ	CN 450525 (D) G. S. (1) UPDATED REV LEVEL BLOCK	1-8-80	R. R.

REV	DESCRIPTION	DATE	APPROVED
K	CN 420000 (C) R. R. (1) ON ALL LMS 12-16-76 ON LMS 1, -2, & -4 CHG: 1) IT 71, 72, 82, 83 QTY WAS "AR" 2) IT 80 P/N WAS 972638-5 3) IT 76 QTY WAS 3 4) REF. DESGN WERE XP3, XU7B, XU111 5) ON DRWG. 204 B, CA WAS (2) 2 PLS. 6) LMS 1, -2, & -4 IT 41 WAS P/N 972547-7 7) ON DRWG. NOTE (6) WAS -- REVA, -- REVIEW A-A, RESISTOR INSTALLATION BETWEEN US PIN 3, 14 TO VCC BUS. ADDED: 8) IT 93 ON ALL LMS. 9) NOTE (7) WORDS "AFTER TEST" BEFORE PHRASE. 10) UPDATED REV LEVEL BLOCK, ADDED 5H 2.	12/17/77	R. R.
L	CN 417575 (C) D. Campbell (1) ON ALL DASH NOS. QTY ITEM 91 WAS 2, QTY ITEM 85 WAS 1 (2) ON LMS-0004 ONLY QTY ITEM 44 WAS 14, ITEM 4 P/N WAS 975374-0001, ITEM 5 P/N WAS 975374-0002, ITEM 6 P/N WAS 975374-0005, ITEM 7 P/N WAS 975374-0004 (3) ADDED NOTE (4) (4) UPDATED REV LEVEL BLOCK	11/21/77	R. R.
M	CN 421939 (B) J. R. (1) ITEM 44 QTY WAS 48 QTY WAS 14 (2) ITEM 46 QTY WAS 5 (3) LMS 1 & 2 ITEMS 94 & 94A WERE ADDED (4) UPDATED REV LEVEL BLK	2-9-77	J. R.
N	CN 418074 (B) R. R. (1) NOTE B DELETED ON FACE OF DRAWING SH1 (2) ADDED NOTE 9 (10) (3) UPDATED REVISION LEVEL BLOCK	2-25-77	R. R.
P	CN 420343 (D) J. R. (1) ITEM 29 WAS 22222-7279 (2) UPDATED REV LEVEL BLOCK	3-12-77	J. R.
R	CN 420062 (D) L. T. (1) LMS-0004 DELETED ITEMS 1 THRU 95, ADDED ITEMS 96 THRU 104 (2) LMS-0001 & -0002, ITEM 61 WAS 972929-0379 (3) UPDATED REV LEVEL BLOCK	3-31-77	R. R.
S	CN 420443 (A) L. T. (1) ADDED NOTES 11 & 12. (2) LMS (ALL DASH LMS) ADDED ITEM 89 (3) UPDATED REV LEVEL BLOCK	3-31-77	R. R.
T	CN 420089 (E) R. R. (1) UPDATED REVISION LEVEL BLOCK	5-13-77	R. R.
U	CN 420360 (B) L. T. (1) DELETED VIEW B-B & CALLOUT (2) DELETED NOTE 7 AND CALLOUT (3) LMS 1 & 2 ITEM 75 WAS 539544-0011 AND ITEM 74 WAS 539544-0009 AND DELETED ITEM 92. (4) UPDATED REV LEVEL BLOCK	6-7-77	J. R.
V	CN 427347 (B) J. R. (1) DELETED (1) -0001 & -0002 LMS ITEM 61 P/N WAS 972929-0388; ITEM 13 & 34 QTY WAS 54 (2) CORRECTED & UPDATED REV LEVEL BLOCK	8-23-77	J. R.
W	CN 420394 (D) J. R. (1) -0001 & -0002 LMS ITEM 66 P/N WAS 975461-0001 (2) UPDATED REV LEVEL BLOCK	8-23-77	J. R.
Y	CN 421283 (B) J. R. (1) DELETED REV U CALLOUT CHANGE WAS C & ECU 420360 REV U WAS C (2) UPDATED REV LEVEL BLOCK. PWB WAS F FOR REV WASSY	9-16-77	J. R.
AA	CN 422006 (E) J. R. (1) ON -0001 & -0002 LMS ITEM 49 QTY WAS 31, 90 WAS 3, ADDED ITEM 106 & DELETED ITEMS 74 & 75 (2) ADDED NOTE 13 (3) UPDATED REV LEVEL BLOCK	9-19-77	J. R.
AB	CN 426492 (C) J. R. (1) DELETED NOTES (2) DELETED ITEMS 71, 72 & 83 AND CALLOUTS ON FIELD OF DRAWING (3) DELETED PROCESS 4 (4) NOTE 2 WAS APPLY ITEM 72 UNDER 43 (5) LMS. ADDED ITEM 92 (6) ZND-5 ADDED ITEM 92. (7) UPDATED REV LEVEL BLOCK	10-11-77	J. R.

QTY	ITEM NO	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION	NOTES
PARTS LIST					
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: ANGLES ± 1° 3 PLACE DECIMALS ± 0.10 2 PLACE DECIMALS ± 0.02 INTERPRET DRAWING PER MIL-D-1000 REMOVE ALL BURRS AND SHARP EDGES CONCENTRICITY MACHINED DIAMETERS 0.010 DIA DIMENSIONAL LIMITS APPLY BEFORE PROCESSES PARENTHETICAL INFO FOR REF ONLY					
HOLE TOLERANCE 0.13 THRU .004 138 THRU .008 251 THRU .008 .125 .001 250 .001 500 .001					
NEXT ASSY USED ON .501 THRU .008 751 .010 1.001 THRU .012 .750 .001 1.200 .001 2.000 .001					
APPLICATION					
DATE: 12-16-76			TEXAS INSTRUMENTS INCORPORATED Dallas, Texas		
"WRITE UP" FOR TILINE DISK CONTROLLER SERIES 30					
SIZE: 1/2" X 1/2" X 1/2"		DRAWING NO: 974905		D96214	
SCALE: N.P.E.		REV: A		SHEET: 2	

SEQ NO	IDENT	F-SPEC	NO	ADDITIONAL CLASSIFICATION	NOTES
PROCESSES - FOR CORRELATION TO GOVT/IND SPECIFICATIONS, SEE TI DRAWING 729467					

TEXAS INSTRUMENTS INCORPORATED		DATE 04/20/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0974905-0001		REV AT	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0002	REF	EA		0974907-9901	DIAGRAM, LOGIC, TILINE DISK CONTROLLER						
0003	REF	EA		0974910-9901	UNIT TEST PROC, TILINE DISK CONTROLLER						
0004	00001.000	EA		0974947-0001	CONTROL ROM, TDS 30A N01						
0004A					U55						
0005	00001.000	EA		0974947-0002	CONTROL ROM, TDS 30A N02						
0005A					U58						
0006	00001.000	EA		0974947-0003	CONTROL ROM, TDS 30A N03						
0006A					U57						
0007	00001.000	EA		0974947-0005	CONTROL ROM, TILINE DISK SERIES 30A, N04A						
0007A					U56						
0010	00001.000	EA		0972188-0001	NETWORK, NE555V, MONOLITHIC TIMING, LINEAR	ST	-NE555V				
0010A					U108						
0019	00001.000	EA		022222-7437	NETWORK SN7437N						
0019A					U78						
0022	00001.000	EA		0972900-7474	NETWORK SN74LS74N						
0022A					U53						
0030	00001.000	EA		0972496-0001	NETWORK, SN74273N						
0030A					U89						
0031	00002.000	EA		0972637-0001	NETWORK, 74S299 SERIAL/PARALLEL CONVERTER						
0031A					U86, U90						
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE				
APPRO. MFG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.				
							8190				
								PART NUMBER LM 0974905-0001			
								REV AT			

TEXAS INSTRUMENTS INCORPORATED		DATE 04/20/79		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM 0974905-0001		REV AT	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0032	00001.000	EA		0972787-0003	NETWORK SN74LS367N						
0032A					U1						
0039	00001.000	EA		0974858-0001	NETWORK, BI-POLAR MICRO CONTROL -3001						
0039A					U59						
0040	00008.000	EA		0974859-0001	NETWORK, BI-POLAR 2BIT PROCESSOR -3002						
0040A					U16 THRU U23						
0041	00001.000	EA		0972594-0004	SWITCH,ROCKER-PWB MOUNTED	023880-900127					
0041A					S1						
0042	00002.000	EA		0972948-0002	TRANSISTOR, 2N2222A NPN GEN PURP SW TO-18 TI	-	2N2222A				
0042A					Q1, Q2						
0043	00001.000	EA		0418801-0005	CRYSTAL, QUARTZ 3.124 MHZ HC-18/U	QPL	-	CR-64/U			
0043A					Y1						
0049	00002.000	EA		0972946-0065	RES FIX 1.0K OHM 5% .25 W CARBON FILM	ROH	-	R-25			
0049A					R1 R2						
0052	00001.000	EA		0399999-9702	RESISTOR SELECTED AT UNIT TEST						
0052A					R67						
0054	00066.000	EA		0972627-0003	CAP, CERAMIC, .047 MF 16V	-B37449-T647353					
0054A					C3 THRU C68						
0055	00001.000	EA		0972927-0044	CAP FIX MICA 300V 510 PF 5%	QPL	-	CM05F511JOC			
0055A					C69						
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE				
APPRO. MFG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.				
								PART NUMBER LM 0974905-0001			
								REV AT			

TEXAS INSTRUMENTS INCORPORATED		DATE 04/20/79		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM 0974905-0001		REV AT	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0056	00001.000	EA		0972965-0008	CAP FIX CERAMIC .0047 MF 10% 200 V	QPL	-	CK068X472K			
0056A					C70						
0057	00001.000	EA		0230491-9999	CAP .001500 MF 200V 10. %	MIL	-	CK068X152K			
0057A					C71						
0058	00001.000	EA		0972965-0012	CAP FIX CERAMIC .010 MF 10% 200V	QPL	-	CK068X103K			
0058A					C72						
0059	00002.000	EA		0972926-0020	CAP FIX MICA 500V 51.0 PF 5%	QPL	-	CM04E510JOD			
0059A					C73, C74						
0060	00001.000	EA		0972929-0391	CAP FIX CERAMIC 470 PF 10 % 200 V	QPL	-	M39014/01-139			
0060A					C75						
0061	00001.000	EA		0539679-0004	CAPACITOR, 220 PF 2% 100V FX CER DIELECT	095275-VK208A221G					
0061A					C76						
0062	00001.000	EA		0539679-0002	CAPACITOR, .001 UF 2% 100V FX CER DIELECT	095275-VK208A102G					
0062A					C77						
0063	00001.000	EA		0972927-0045	CAP FIX MICA 300V 560 PF 5%	QPL	-	CM05F561JOC			
0063A					C78						
0064	00003.000	EA		0972924-0011	CAP FIX TANT SOLID 68 MFD 10 % 15 VOLT	QPL	-	M39003/1-2274			
0064A					C1, C2, C79						
0065	00002.000	EA		0944954-0001	INSULATOR, PWB, 14IN						
0066	00002.000	EA		0945239-0001	BRACKET-STIFFENER, PWB, 14IN						
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE				
APPRO. MFG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.				
								PART NUMBER LM 0974905-0001			
								REV AT			

TEXAS INSTRUMENTS INCORPORATED		DATE 04/20/79		LIST OF MATERIAL		PAGE 4 of		PART NUMBER LM 0974905-0001		REV AT	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0067	00006.000	EA		0972684-0002	SCREW, THD FRMG, HEX WSHR HD, 2-56X1/4 LG						
0068	00002.000	EA		0533844-0001	EJECTOR, NYLON, NON-LOCKING, PWB						
0073	00006.000	EA		2210188-0005	SOCKET, LOW PROFILE, DIP, 20 PINS	003612-DIL820P-108					
0073A					XU55 THRU XU58, XU86, XU90						
0076	00001.000	EA		2210188-0003	SOCKET, LOW PROFILE, DIP, 7 CONT, 16 PINS	003612-DIL816P-108					
0076A					XP3						
0077	00001.000	EA		2210188-0001	SOCKET, LOW PROFILE, DIP, 3 CONT, 8 PINS	003612-DIL88P-108					
0077A					XU108						
0079	00001.000	EA		0222222-7107	NETWORK SN74107N						
0079A					U111						
0080	00001.000	EA		0972137-0005	CONNECTOR, PC 50 PIN	BEI - 65483-005					
0080A					P4						
0082	00000.020	FT		0411634-1310	SLEEVE, PVC, .133 DIA. CLEAR	QPL	-	MIL-1-631			
0084	00002.000	EA		0972537-0001	DIODE, LED 550-0103 50 MA 3 V	DIA	-	550-0103			
0084A					CR1, CR2						
0086	00002.000	EA		0418730-0101	WASHER, NYLON						
0087	00002.000	EA		0972988-0005	SCREW 2-56 X .375 PAN HEAD CRES						
0088	00002.000	EA		0411115-0024	NUT, PLAIN 2-56 UNC-28 HEX CRES	QPL	-	M535649-224			
0092	AR	EA		0996069-0003	ADH, SOLID, THRMPLSTC 25# BAG ANAEROBIC	PERSAL-917-6302					
0093	00002.000	EA		2210188-0002	SOCKET, LOW PROFILE, DIP, 14 PINS	003612-DIL814P-108					
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE				
APPRO. MFG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.				
								PART NUMBER LM 0974905-0001			
								REV AT			

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		DATE 04/20/79		PAGE 5 of		PART NUMBER LM0974905-0001		REV AT	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0093A					XU78,XU111						
0105	00003.000	FT		0457313-0006	WIRE 24 AWG SOLID,TEFLON,WHITE	QPL - MIL-W-16878/4					
0107	00001.000	EA		0974905-5001	AUTO INSERTED PARTS LIST FOR 974905-1						
DRAFTSMAN DATE CKD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE TILINE DISK CONTROLLER, 4K PROM											
APPD MFG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO DATE PART NUMBER REV LM0974905-0001 AT											

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		DATE 04/20/79		PAGE 1 of		PART NUMBER LM0974905-0002		REV AT	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0002	REF	EA		0974907-9901	DIAGRAM, LOGIC, TILINE DISK CONTROLLER						
0003	REF	EA		0974910-9901	UNIT TEST PROC, TILINE DISK CONTROLLER						
0010	00001.000	EA		0972188-0001	NETWORK,NE555V,MONOLITHIC TIMING,LINEAR	ST -NE555V					
0010A					U108						
0019	00001.000	EA		0222222-7437	NETWORK SN7437N						
0019A					U78						
0022	00001.000	EA		0972900-7474	NETWORK SN74LS74N						
0022A					U53						
0030	00001.000	EA		0972496-0001	NETWORK, SN74273N						
0030A					U89						
0031	00002.000	EA		0972637-0001	NETWORK,74S299 SERIAL/PARALLEL CONVERTER						
0031A					U86,U90						
0032	00001.000	EA		0972787-0003	NETWORK SN74LS367N						
0032A					U1						
0039	00001.000	EA		0974858-0001	NETWORK, BI-POLAR MICRO CONTROL -3001						
0039A					U59						
0040	00008.000	EA		0974859-0001	NETWORK, BI-POLAR 2BIT PROCESSOR -3002						
0040A					U16 THRU U23						
0041	00001.000	EA		0972594-0004	SWITCH,ROCKER-PWB MOUNTED	023880-900127					
0041A					S1						
DRAFTSMAN DATE CKD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE TILINE DISK CONTROLLER, 2K PROM											
APPD MFG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO DATE PART NUMBER REV LM0974905-0002 AT											

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		DATE 04/20/79		PAGE 2 of		PART NUMBER LM0974905-0002		REV AT	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0042	00002.000	EA		0972948-0002	TRANSISTOR,2N2222A NPN GEN PURP SW TO-18	TI - 2N2222A					
0042A					Q1,Q2						
0043	00001.000	EA		0418801-0005	CRYSTAL,QUARTZ 3.124 MHZ HC-18/U	QPL - CR-64/U					
0043A					Y1						
0049	00002.000	EA		0972946-0065	RES FIX 1.0K OHM 5% .25 W CARBON FILM	POH - R-25					
0049A					R1 R2						
0052	00001.000	EA		0399999-9702	RESISTOR SELECTED AT UNIT TEST						
0052A					R67						
0054	00060.000	EA		0972627-0003	CAP,CERAMIC,.047 MF 16V	-B37449-T647353					
0054A					C3 THRU C33,C37 THRU C43						
0054B					C47 THRU C68						
0055	00001.000	EA		0972927-0044	CAP FIX MICA 300V 510 PF 5 %	QPL -C405F511JOC					
0055A					C69						
0056	00001.000	EA		0972965-0008	CAP FIX CERAMIC .0047 MF 10% 200 V	QPL - CK068X472K					
0056A					C70						
0057	00001.000	EA		0230491-9999	CAP .001500 MF 200V 10. %	MIL -CK068X152K					
0057A					C71						
0058	00001.000	EA		0972965-0012	CAP FIX CERAMIC .010 MF 10% 200V	QPL - CK068X103K					
0058A					C72						
0059	00002.000	EA		0972926-0020	CAP FIX MICA 500V 51.0 PF 5 %	QPL -C404E510JOD					
DRAFTSMAN DATE CKD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE TILINE DISK CONTROLLER, 2K PROM											
APPD MFG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO DATE PART NUMBER REV LM0974905-0002 AT											

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		DATE 04/20/79		PAGE 3 of		PART NUMBER LM0974905-0002		REV AT	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0059A					C73,C74						
0060	00001.000	EA		0972929-0391	CAP FIX CERAMIC 470 PF 10 % 200 V	QPL -M39014/01-1391					
0060A					C75						
0061	00001.000	EA		0539679-0004	CAPACITOR, 220 PF 2% 100V FX CER DIE	095275-VK208A221G					
0061A					C76						
0062	00001.000	EA		0539679-0002	CAPACITOR, .001 UF 2% 100V FX CER DIE	095275-VK208A102G					
0062A					C77						
0063	00001.000	EA		0972927-0045	CAP FIX MICA 300V 560 PF 5 %	QPL -C405F561JOC					
0063A					C78						
0064	00003.000	EA		0972924-0011	CAP FIX TANT SOLID 68 MFD 10 % 15 VOLT	QPL -M39003/1-2274					
0064A					C1,C2,C79						
0065	00002.000	EA		0944954-0001	INSULATOR, PWB, 14IN						
0066	00002.000	EA		0945239-0001	BRACKET-STIFFENER, PWB, 14IN						
0067	00006.000	EA		0972684-0002	SCREW,THD FRMG,HEX WSHR HD,2-56X1/4 LG						
0068	00002.000	EA		0533844-0001	EJECTOR, NYLON, NON-LOCKING, PWB						
0073	00006.000	EA		2210188-0005	SOCKET, LOW PROFILE, DIP, 20 PINS	003612-D1L820P-108					
0073A					XU55 THRU XU58,XU86,XU90						
0076	00001.000	EA		2210188-0003	SOCKET,LOW PROFILE,DIP, 7 CONT, 16 PINS	003612-D1L816P-108					
0076A					XP3						
0077	00001.000	EA		2210188-0001	SOCKET,LOW PROFILE,DIP, 3 CONT, 8 PINS	003612-D1L88P-108					
DRAFTSMAN DATE CKD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE TILINE DISK CONTROLLER, 2K PROM											
APPD MFG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO DATE PART NUMBER REV LM0974905-0002 AT											

TEXAS INSTRUMENTS INCORPORATED		DATE 04/20/79		LIST OF MATERIAL		PAGE 4 of		PART NUMBER LM 0974905-0002		REV AT	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0077A					XU108						
0079	00001.000	EA		022222-7107	NETWORK SN74107M						
0079A					U111						
0080	00001.000	EA		0972137-0005	CONNECTOR, PC 50 PIN	BEI - 65483-005					
0080A					P4						
0082	00000.020	FT		0411634-1310	SLEEVE, PVC, .133 DIA. CLEAR	QPL - MIL-1-631					
0084	00002.000	EA		0972537-0001	DIODE, LED 550-0103 50 MA 3 V	DIA --550-0103					
0084A					CR1, CR2						
0086	00002.000	EA		0418730-0101	WASHER, NYLON						
0087	00002.000	EA		0972988-0005	SCREW 2-56 X .375 PAN HEAD CRES						
0088	00002.000	EA		0411115-0024	NUT, PLAIN 2-56 UNC-28 HEX CRES	QPL - MS35649-224					
0089	00001.000	EA		0974940-0001	ZK ROM ADAPTER						
0092	AR	EA		0996069-0003	ADH, SOLID, THRMPLSTC 25# BAG ANAEROBIC	PERSAL-917-6302					
0093	00002.000	EA		2210188-0002	SOCKET, LOW PROFILE, DIP, 14 PINS	003612-DILB14P-108					
0093A					XU78, XU111						
0105	00003.000	FT		0457313-0006	WIRE 24 AWG SOLID, TEFLON, WHITE	QPL - MIL-W-16878/4					
0107	00001.000	EA		0974905-5002	AUTO INSERTED PARTS LIST FOR 974905-2						
DRAFTSMAN DATE CKD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE TILINE DISK CONTROLLER, 2K PROM											
APPROVING DATE APP'D PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER LM 0974905-0002 REV AT											

TEXAS INSTRUMENTS INCORPORATED		DATE 04/20/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0974905-0004		REV AT	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0096	00001.000	EA		0974905-0001	TILINE DISK CONTROLLER, 4K PROM						
0097	00001.000	EA		0418801-0007	CRYSTAL, QUARTZ 5.000 MHZ HC-18/U	QPL - CR-64/U					
0097A					Y1						
0098	00001.000	EA		0975374-0007	CONTROL ROM, SERIES 400, NO. 7						
0098A					U55						
0099	00001.000	EA		0975374-0008	CONTROL ROM, SERIES 400, NO. 8						
0099A					U58						
0100	00001.000	EA		0975374-0011	CONTROL ROM, SERIES 400, NO. 11						
0100A					U57						
0101	00001.000	EA		0975374-0010	CONTROL ROM, SERIES 400, NO. 10						
0101A					U56						
0102	00003.000	EA		0972946-0043	RES FIX 120 OHM 5% .25 W CARBON FILM	ROH - R-25					
0102A					R53 R54 R77						
0103	00002.000	EA		0972946-0052	RES FIX 300 OHM 5% .25 W CARBON FILM	FOH - R-25					
0103A					R61 R62						
0104	REF	EA		0975384-9901	TEST PROCEDURE, SYS TEST (990/10)						
0105	00003.000	FT		0457313-0006	WIRE 24 AWG SOLID, TEFLON, WHITE	QPL - MIL-W-16878/4					
DRAFTSMAN DATE CKD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE TILINE DISK CONTROLLER, AMPEX											
APPROVING DATE APP'D PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER LM 0974905-0004 REV AT											

TEXAS INSTRUMENTS INCORPORATED		DATE 04/20/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0974905-5001		REV AT	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00001.000	EA		0974906-0001	PMB, TILINE DISK CONTROLLER						
0008	00003.000	EA		0974849-0001	NETWORK, DM8136						
0008A					U10, U24, U32						
0009	00001.000	EA		0974866-0001	NETWORK, CRC GENERATOR	FCD --9401					
0009A					U84						
0010	00001.000	EA		0972188-0001	NETWORK, NE555V, MONOLITHIC TIMING, LINEAR	ST -NE555V					
0010A					U107						
0011	00005.000	EA		0972900-7400	NETWORK SN74LS00N	TI -SN74LS00N					
0011A					U33, U76, U80, U98, U105						
0012	00001.000	EA		0972900-7402	NETWORK SN74LS02N						
0012A					U28						
0013	00004.000	EA		0972900-7404	NETWORK SN74LS04N						
0013A					U26, U37, U48, U100						
0014	00003.000	EA		022222-7407	NETWORK-SN7407N	TI -SN7407N					
0014A					U31, U67, U103						
0015	00004.000	EA		0972749-0001	NETWORK, SN74LS08N						
0015A					U14, U36, U49, U106						
0016	00005.000	EA		0972900-7420	NETWORK SN74LS20N						
0016A					U25, U27, U51, U64, U79						
0017	00001.000	EA		0972900-7430	NETWORK SN74LS30N	TI -SN74LS30N					
DRAFTSMAN DATE CKD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO INSERTED PARTS LIST FOR 974905-1											
APPROVING DATE APP'D PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER LM 0974905-5001 REV AT											

TEXAS INSTRUMENTS INCORPORATED		DATE 04/20/79		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM 0974905-5001		REV AT	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0017A					U62						
0018	00002.000	EA		0972900-7432	NETWORK SN74LS32N	TI -SN74LS32N					
0018A					U77, U95						
0020	00001.000	EA		022222-7438	NETWORK SN7438N						
0020A					U102						
0021	00001.000	EA		0972751-0001	NETWORK, SN74LS86N						
0021A					U94						
0022	00010.000	EA		0972900-7474	NETWORK SN74LS74N						
0022A					U29, U35, U38, U63, U68, U81, U92						
0022B					U96 U97 U110						
0023	00002.000	EA		022222-7132	NETWORK SN74132N						
0023A					U30, U66						
0024	00001.000	EA		0972900-7153	NETWORK SN74LS153N	TI -SN74LS153N					
0024A					U34						
0025	00008.000	EA		022222-7157	NETWORK SN74157N						
0025A					U40, U42, U44, U45, U46, U50, U72						
0025B					U109						
0026	00001.000	EA		022222-7161	NETWORK SN74161N	-SN74161N					
0026A					U83						
0027	00008.000	EA		022222-7173	NETWORK SN74173N						
DRAFTSMAN DATE CKD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO INSERTED PARTS LIST FOR 974905-1											
APPROVING DATE APP'D PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER LM 0974905-5001 REV AT											

TEXAS INSTRUMENTS INCORPORATED		DATE 04/20/79		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM0974905-5001		REV AT	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0027A					U60,U69,U70,U71,U73,U74,U9,						
0027B					U101						
0028	00002.000	EA		0222222-7182	NETWORK SN74182N						
0028A					U3,U7						
0029	00001.000	EA		0972159-7279	NETWORK, QUADRUPLE S-R LATCH	TI-	-SN74275N				
0029A					U39						
0032	00006.000	EA		0972787-0003	NETWORK SN74LS367N						
0032A					U2,U4,U5,U6,U8,U91						
0033	00001.000	EA		0972787-0004	NETWORK SN74LS368N						
0033A					U85						
0034	00002.000	EA		0240000-7404	NETWORK SN74H04N						
0034A					U65 U112						
0035	00001.000	EA		0240000-7411	NETWORK-SN74H11N						
0035A					U54						
0036	00001.000	EA		0240000-7474	NETWORK-SN74H74N						
0036A					U13						
0037	00003.000	EA		0219402-7138	NETWORK SN74S138N						
0037A					U61,U75,U88						
0038	00004.000	EA		0974674-0001	NETWORK SN75138N						
0038A					U11,U12,U15,U43						
DRAFTSMAN DATE CKD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO INSERTED PARTS LIST FOR 974905-1											
APPD MFG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER LM0974905-5001 REV AT											

TEXAS INSTRUMENTS INCORPORATED		DATE 04/20/79		LIST OF MATERIAL		PAGE 4 of		PART NUMBER LM0974905-5001		REV AT	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0044	00012.000	EA		0972946-0043	RES FIX 120 OHM 5 % .25 W CARBON FILM	ROH	- R-25				
0044A					R35,R37,R39,R41,R43,R45,R47						
0044B					R55,R56,R57,R64,R65						
0045	00003.000	EA		0972946-0049	RES FIX 220 OHM 5 % .25 W CARBON FILM	ROH	- R-25				
0045A					R21,R22,R49						
0046	00004.000	EA		0972946-0053	RES FIX 330 OHM 5 % .25 W CARBON FILM	ROH	- R-25				
0046A					R19,R23,R53,R54						
0047	00002.000	EA		0972946-0057	RES FIX 470 OHM 5 % .25 W CARBON FILM	ROH	- R-25				
0047A					R51,R52						
0048	00012.000	EA		0972946-0052	RES FIX 300 OHM 5 % .25 W CARBON FILM	ROH	- R-25				
0048A					R33,R36,R38,R40,R42,R44,R46						
0048B					R58,R59,R60,R63,R66						
0049	00030.000	EA		0972946-0065	RES FIX 1.0K OHM 5% .25 W CARBON FILM	ROH	- R-25				
0049A					R3 THRU R18,R24 THRU R29,						
0049B					R34,R68 THRU R72,R75,R76						
0050	00001.000	EA		0972946-0069	RES FIX 1.5K OHM 5 % .25 W CARBON FILM	ROH	- R-25				
0050A					R20						
0051	00002.000	EA		0972946-0089	RES FIX 10K OHM 5% .25 W CARBON FILM	ROH	- R-25				
0051A					R48,R50						
0078	00002.000	EA		0222222-7451	NETWORK SN7451N						
DRAFTSMAN DATE CKD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO INSERTED PARTS LIST FOR 974905-1											
APPD MFG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER LM0974905-5001 REV AT											

TEXAS INSTRUMENTS INCORPORATED		DATE 04/20/79		LIST OF MATERIAL		PAGE 5 of		PART NUMBER LM0974905-5001		REV AT	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0078A					U52,U99						
0085	00002.000	EA		0222222-7414	NETWORK SN7414N						
0085A					U82 U104						
0090	00003.000	EA		0972946-0055	RES FIX 390 OHM 5 % .25 W CARBON FILM	ROH	- R-25				
0090A					R30,R73,R74						
0091	00001.000	EA		0222222-7404	NETWORK SN7404N						
0091A					U93						
0094	00002.000	EA		0972946-0061	RES FIX 680 OHM 5 % .25 W CARBON FILM	ROH	- R-25				
0094A					R61,R62						
0106	00001.000	EA		0972932-0001	DIODE, 1N914B SWITCHING 75V PIV 75MA 4MS	TI	- 1N914B				
0106A					CR3						
0108	00001.000	EA		0539371-0331	RESISTOR, FIXED FILM 274 OHMS 1/8W 1%	CDR	- NC4				
0108A					R31						
0109	00001.000	EA		0539371-0339	RES FIX FILM 332 OHM 1% .13 WATT	CDR	- NC4				
0109A					R32						
DRAFTSMAN DATE CKD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO INSERTED PARTS LIST FOR 974905-1											
APPD MFG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER LM0974905-5001 REV AT											

TEXAS INSTRUMENTS INCORPORATED		DATE 04/20/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0974905-5002		REV AT	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00001.000	EA		0974906-0001	PWB, TILINE DISK CONTROLLER						
0008	00003.000	EA		0974849-0001	NETWORK, DM8136						
0008A					U10,U24,U32						
0009	00001.000	EA		0974866-0001	NETWORK, CRC GENERATOR	FCD	--9401				
0009A					U84						
0010	00001.000	EA		0972188-0001	NETWORK, NE555V, MONOLITHIC TIMING, LINEAR	ST	-NE555V				
0010A					U107						
0011	00005.000	EA		0972900-7400	NETWORK SN74LS00N	TI	-SN74LS00N				
0011A					U33,U76,U80,U98,U105						
0012	00001.000	EA		0972900-7402	NETWORK SN74LS02N						
0012A					U28						
0013	00004.000	EA		0972900-7404	NETWORK SN74LS04N						
0013A					U26 U37 U48 U100						
0014	00003.000	EA		0222222-7407	NETWORK-SN7407N	TI-	-SN7407N				
0014A					U31,U67,U103						
0015	00004.000	EA		0972749-0001	NETWORK, SN74LS08N						
0015A					U14,U36,U49,U106						
0016	00005.000	EA		0972900-7420	NETWORK SN74LS20N						
0016A					U25,U27,U51,U64,U79						
0017	00001.000	EA		0972900-7430	NETWORK SN74LS30N	TI	-SN74LS30N				
DRAFTSMAN DATE CKD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO INSERTED PARTS LIST FOR 974905-2											
APPD MFG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER LM0974905-5002 REV AT											

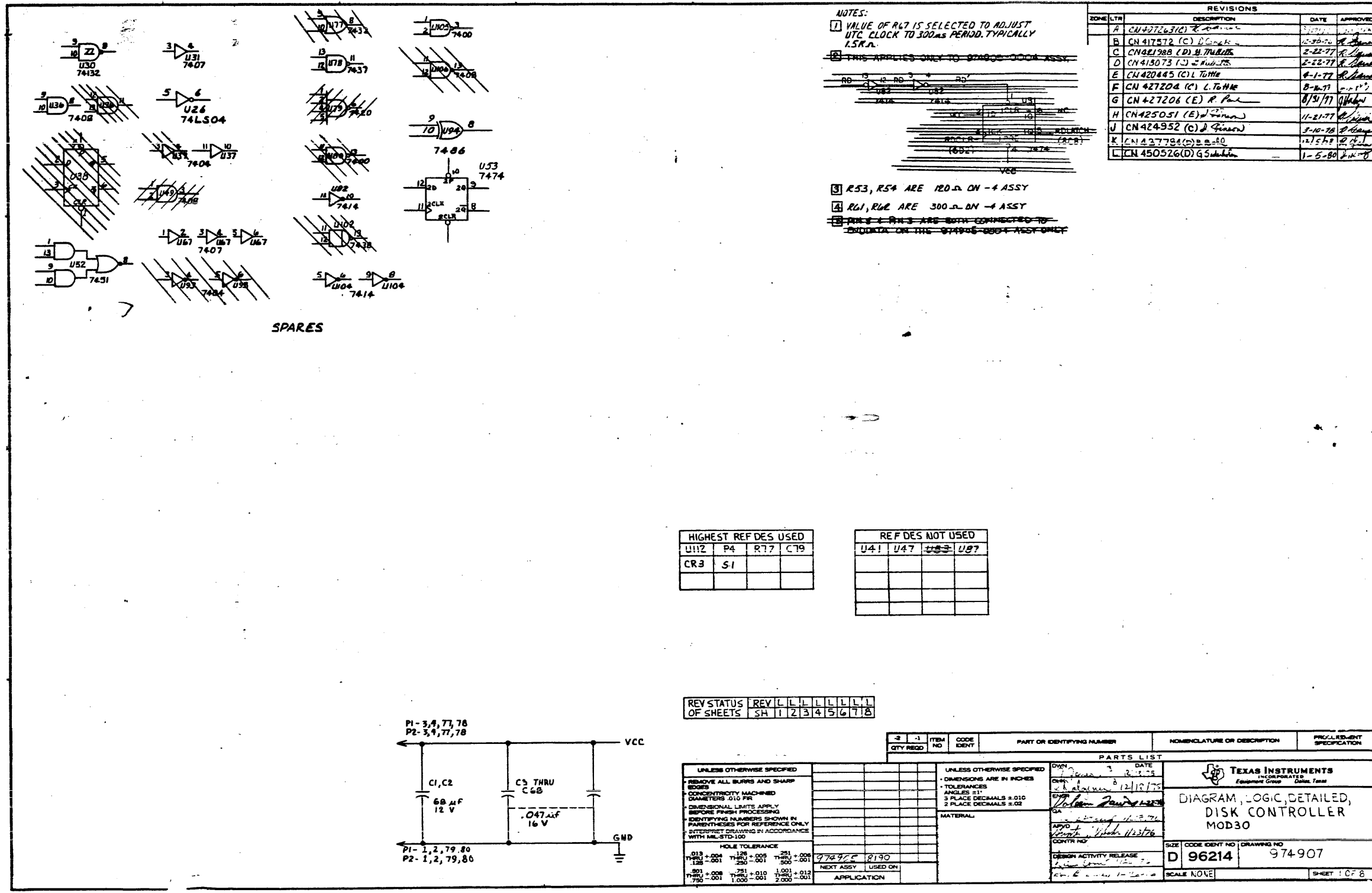


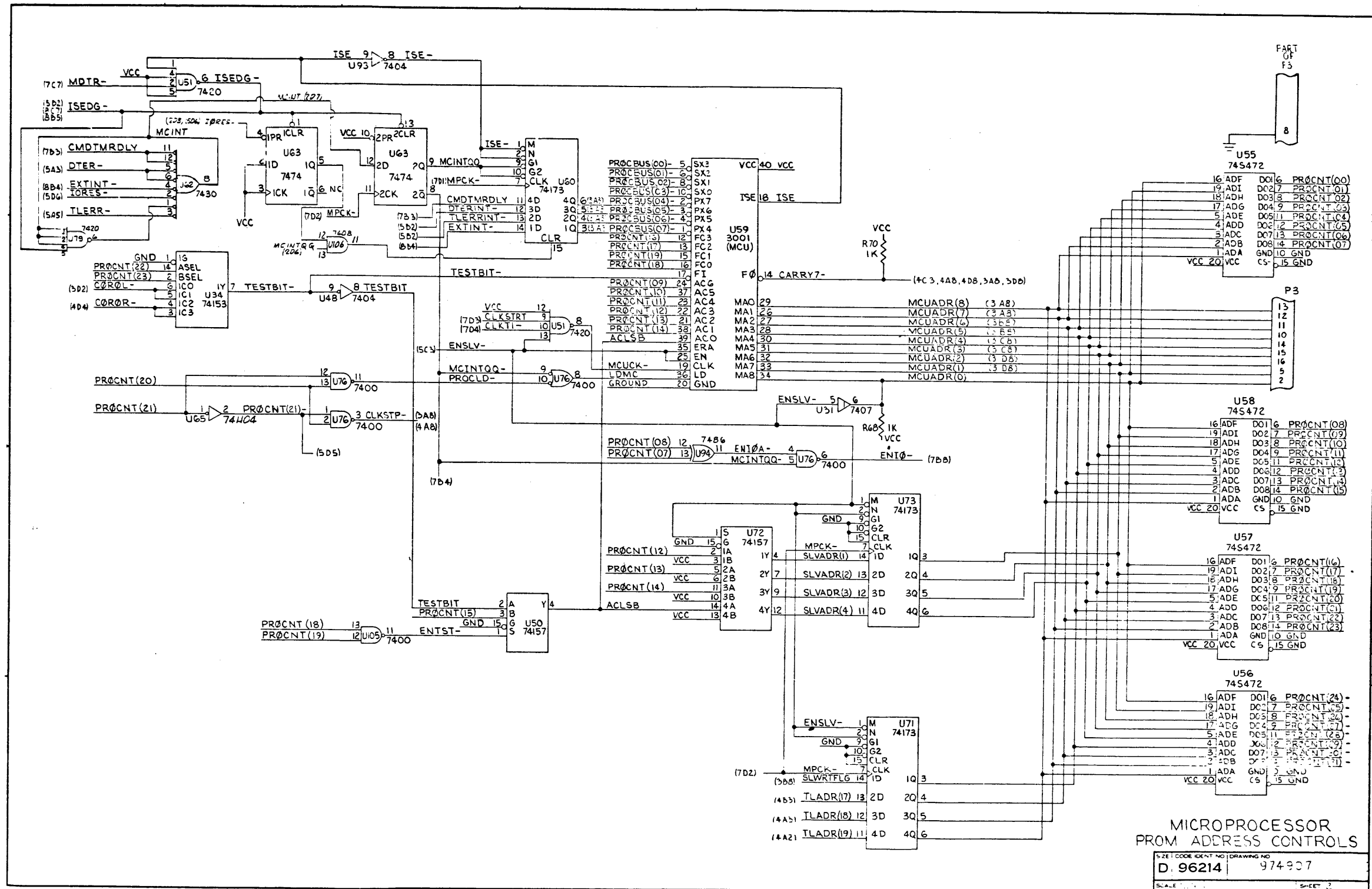
TEXAS INSTRUMENTS INCORPORATED		DATE 04/20/79		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM 0974905-5002		REV AT	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0017A					U62						
0018	00002.000	EA		0972900-7432	NETWORK SN74LS32N	TI	-SN74LS32N				
0018A					U77,U95						
0020	00001.000	EA		0222222-7438	NETWORK SN7438N						
0020A					U102						
0021	00001.000	EA		0972751-0001	NETWORK, SN74LS86N						
0021A					U94						
0022	00010.000	EA		0972900-7474	NETWORK SN74LS74N						
0022A					U29,U35,U38,U63,U68,U81,U92						
0022B					U96,U97,U110						
0023	00002.000	EA		0222222-7132	NETWORK SN74132N						
0023A					U30,U66						
0024	00001.000	EA		0972900-7153	NETWORK SN74LS153N	TI	-SN74LS153N				
0024A					U34						
0025	00008.000	EA		0222222-7157	NETWORK SN74157N						
0025A					U40,U42,U44,U45,U46,U50,U72						
0025B					U109						
0026	00001.000	EA		0222222-7161	NETWORK SN74161N						
0026A					U83						
0027	00008.000	EA		0222222-7173	NETWORK SN74173N						
DRAFTSMAN DATE CD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO INSERTED PARTS LIST FOR 974905-2											
APPD: MFG DATE APPD: PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER REV LM 0974905-5002 AT											

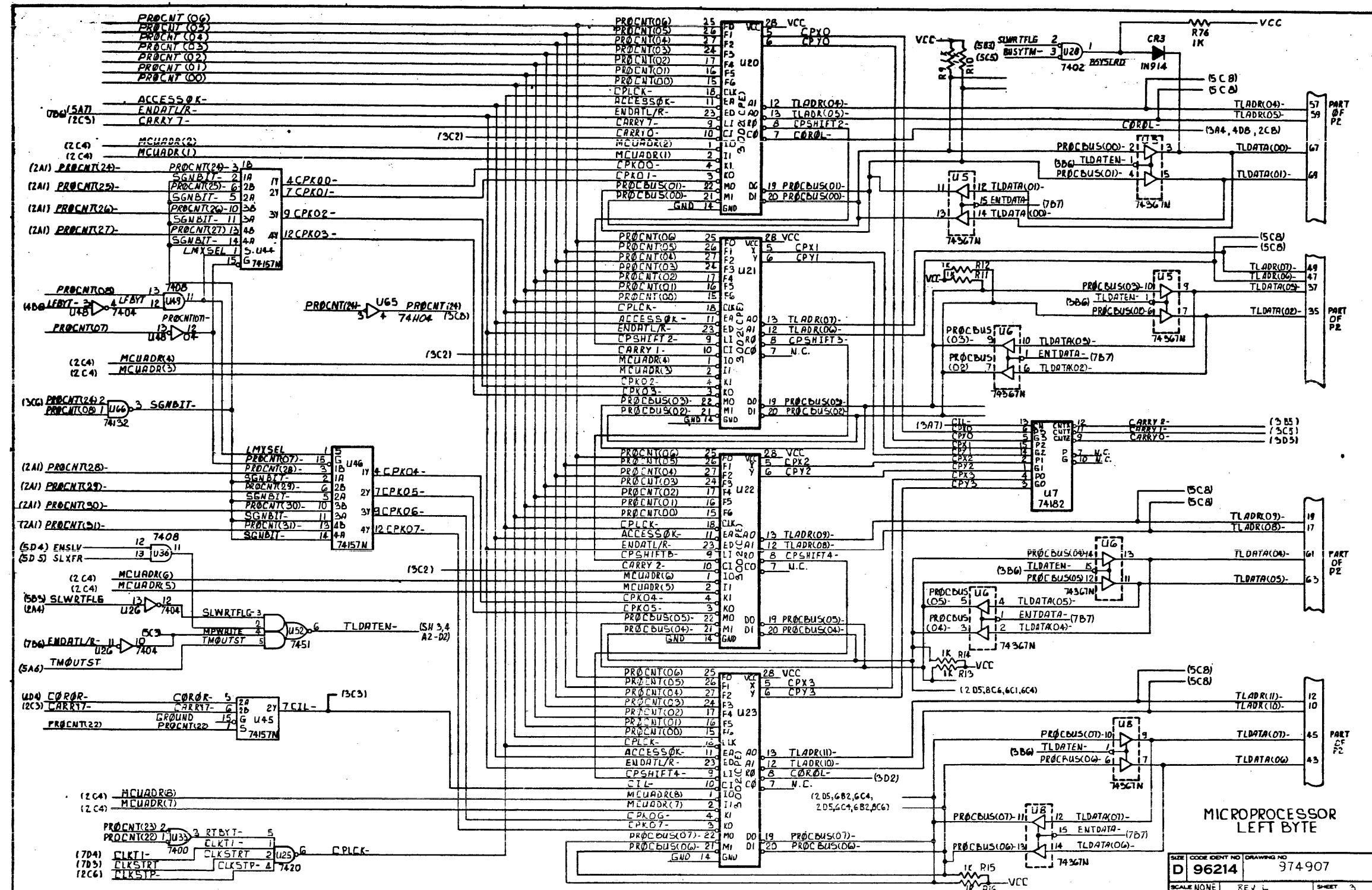
TEXAS INSTRUMENTS INCORPORATED		DATE 04/20/79		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM 0974905-5002		REV AT	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0027A					U60,U69,U70,U71,U73,U74,U9						
0027B					U101						
0028	00002.000	EA		0222222-7182	NETWORK SN74182N						
0028A					U3,U7						
0029	00001.000	EA		0972159-7279	NETWORK, QUADRUPLE S-R LATCH	TI-	-SN74279N				
0029A					U39						
0032	00006.000	EA		0972787-0003	NETWORK SN74LS367N						
0032A					U2,U4,U5,U6,U8,U91						
0033	00001.000	EA		0972787-0004	NETWORK SN74LS368N						
0033A					U85						
0034	00002.000	EA		0240000-7404	NETWORK SN74H04N						
0034A					U65 U112						
0035	00001.000	EA		0240000-7411	NETWORK-SN74H11N						
0035A					U54						
0036	00001.000	EA		0240000-7474	NETWORK-SN74H74N						
0036A					U13						
0037	00003.000	EA		0219402-7138	NETWORK SN74S138N						
0037A					U61,U75,U88						
0038	00004.000	EA		0974674-0001	NETWORK SN75138N						
0038A					U11,U12,U15,U43						
DRAFTSMAN DATE CD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO INSERTED PARTS LIST FOR 974905-2											
APPD: MFG DATE APPD: PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER REV LM 0974905-5002 AT											

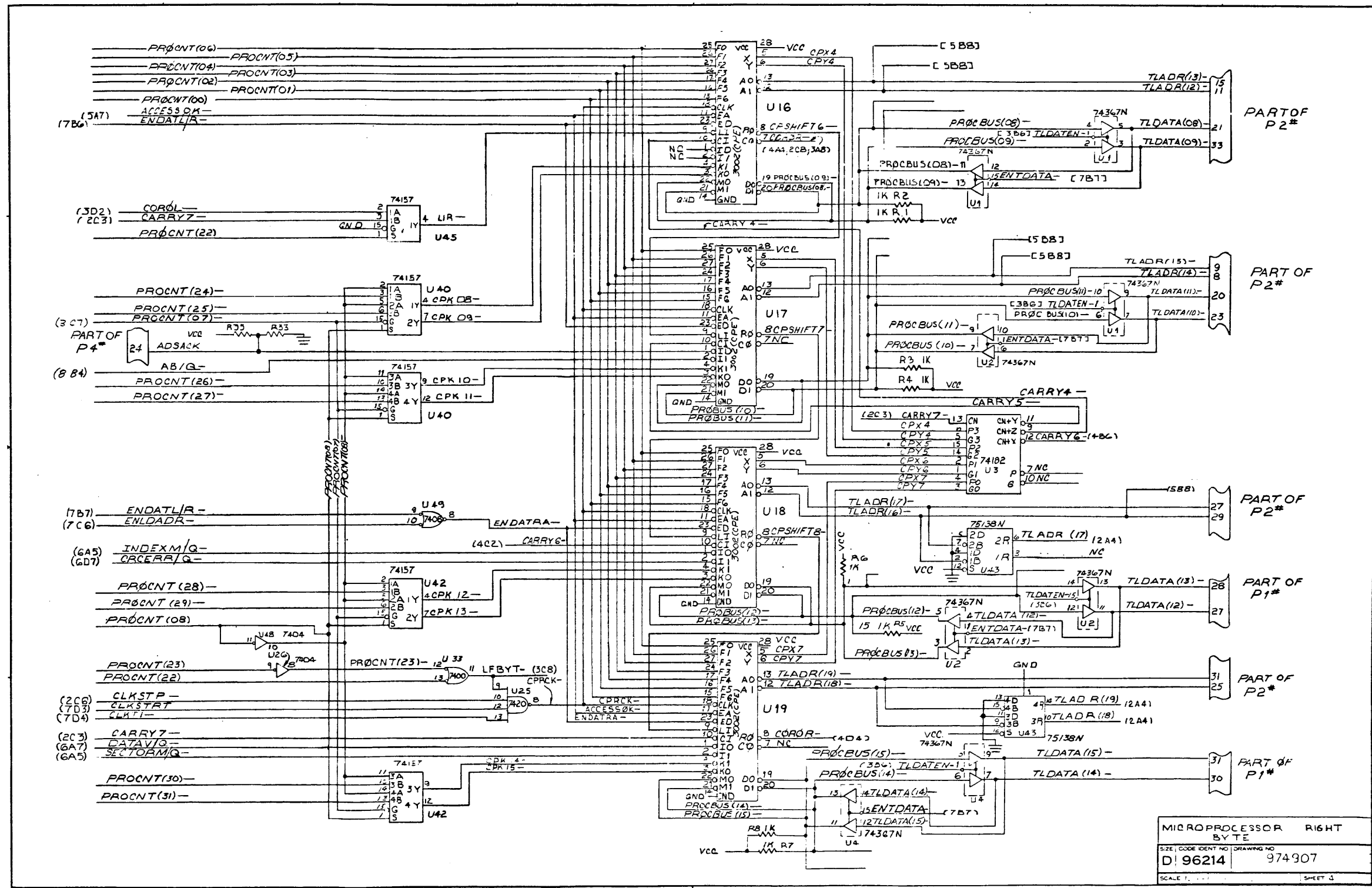
TEXAS INSTRUMENTS INCORPORATED		DATE 04/20/79		LIST OF MATERIAL		PAGE 4 of		PART NUMBER LM 0974905-5002		REV AT	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0044	00012.000	EA		0972946-0043	RES FIX 120 OHM 5% .25 W CARBON FILM	ROH	- R-25				
0044A					R35,R37,R39,R41,R43,R45,R47						
0044B					R55,R56,R57,R64,R65						
0045	00003.000	EA		0972946-0049	RES FIX 220 OHM 5% .25 W CARBON FILM	ROH	- R-25				
0045A					R21,R22,R49						
0046	00004.000	EA		0972946-0053	RES FIX 330 OHM 5% .25 W CARBON FILM	ROH	- R-25				
0046A					R19,R23,R53,R54						
0047	00002.000	EA		0972946-0057	RES FIX 470 OHM 5% .25 W CARBON FILM	ROH	- R-25				
0047A					R51,R52						
0048	00012.000	EA		0972946-0052	RES FIX 300 OHM 5% .25 W CARBON FILM	ROH	- R-25				
0048A					R33,R36,R38,R40,R42,R44,R46						
0048B					R58,R59,R60,R63,R66						
0049	00030.000	EA		0972946-0065	RES FIX 1.0K OHM 5% .25 W CARBON FILM	ROH	- R-25				
0049A					R3 THRU R18,R24 THRU R29,						
0049B					R34,R68 THRU R72,R75,R76						
0050	00001.000	EA		0972946-0069	RES FIX 1.5K OHM 5% .25 W CARBON FILM	ROH	- R-25				
0050A					R20						
0051	00002.000	EA		0972946-0089	RES FIX 10K OHM 5% .25 W CARBON FILM	ROH	- R-25				
0051A					R48,R50						
0078	00002.000	EA		0222222-7451	NETWORK SN7451N						
DRAFTSMAN DATE CD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO INSERTED PARTS LIST FOR 974905-2											
APPD: MFG DATE APPD: PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER REV LM 0974905-5002 AT											

TEXAS INSTRUMENTS INCORPORATED		DATE 04/20/79		LIST OF MATERIAL		PAGE 5 of		PART NUMBER LM 0974905-5002		REV AT	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0078A					U52,U99						
0085	00002.000	EA		0222222-7414	NETWORK SN7414N						
0085A					U82 U104						
0090	00003.000	EA		0972946-0055	RES FIX 390 OHM 5% .25 W CARBON FILM	ROH	- R-25				
0090A					R30,R73,R74						
0091	00001.000	EA		0222222-7404	NETWORK SN7404N						
0091A					U93						
0094	00002.000	EA		0972946-0061	RES FIX 680 OHM 5% .25 W CARBON FILM	ROH	- R-25				
0094A					R61,R62						
0106	00001.000	EA		0972932-0001	DIODE, 1N914B SWITCHING 75V PIV 75MA 4NS	TI	- IN914B				
0106A					CR3						
0108	00001.000	EA		0539371-0331	RESISTOR, FIXED FILM 274 OHMS 1/8W 1%	COR	- NC4				
0108A					R31						
0109	00001.000	EA		0539371-0339	RES FIX FILM 332 OHM 1% .13 WATT	COR	- NC4				
0109A					R32						
DRAFTSMAN DATE CD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO INSERTED PARTS LIST FOR 974905-2											
APPD: MFG DATE APPD: PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER REV LM 0974905-5002 AT											

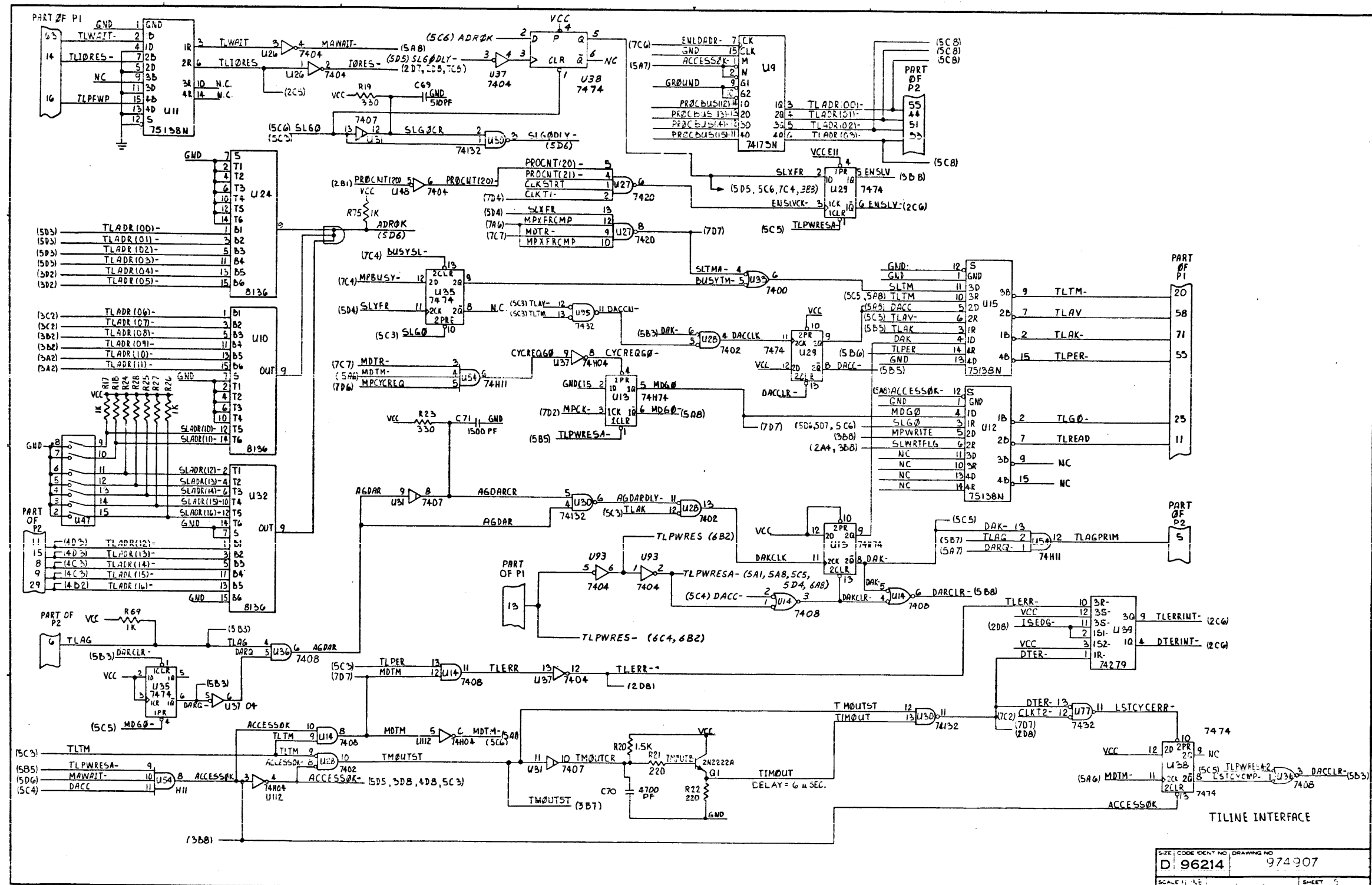




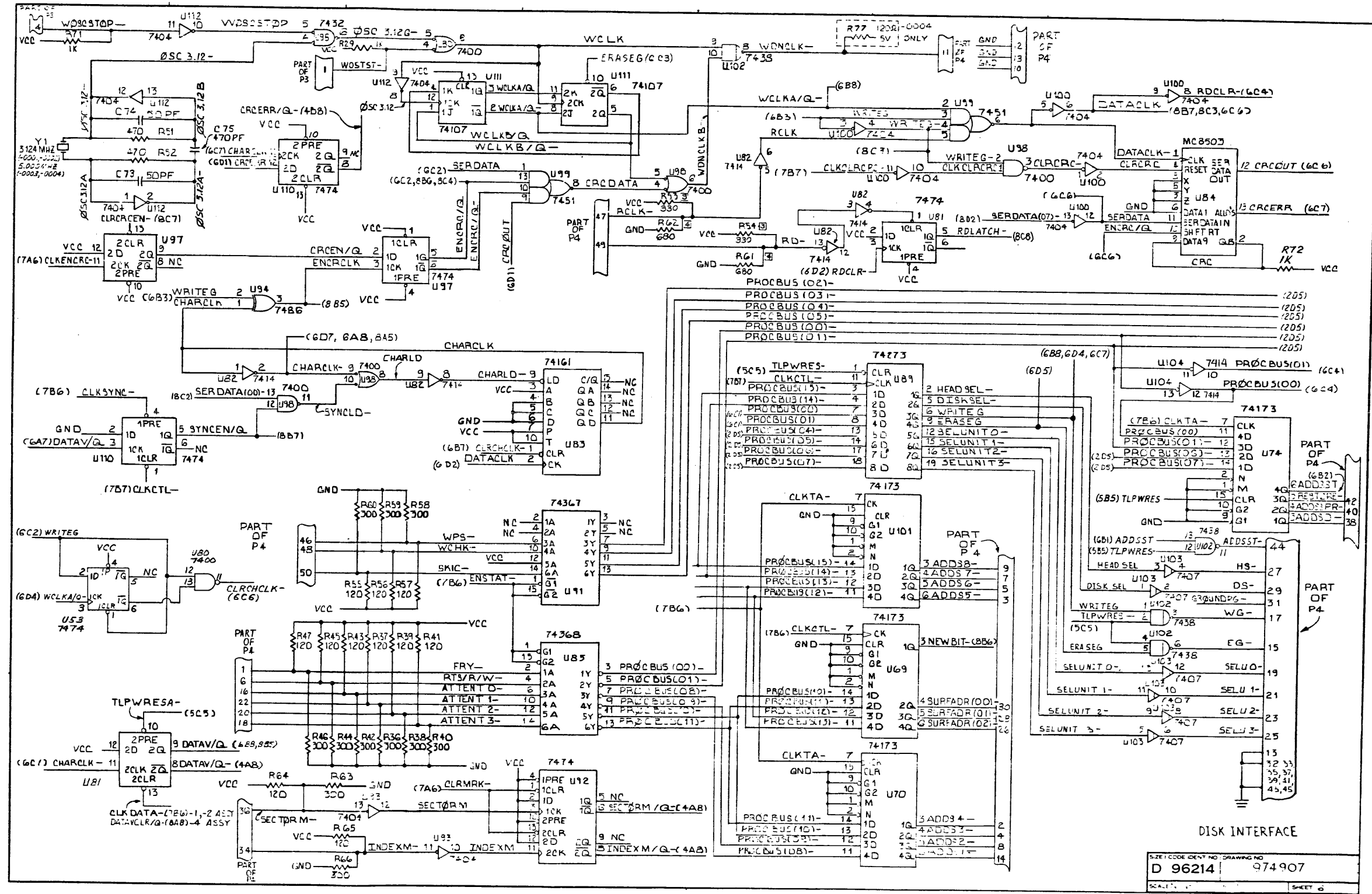




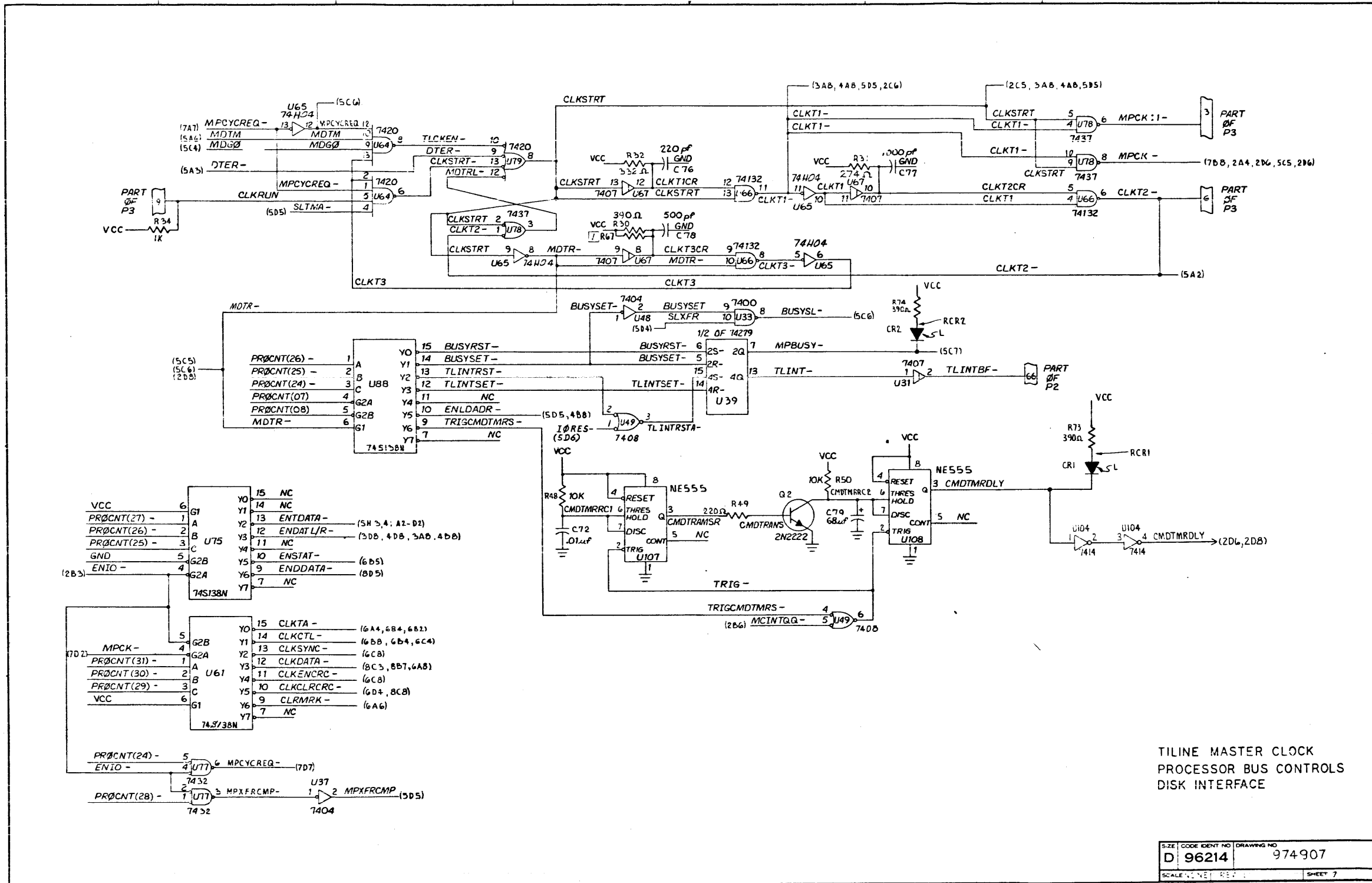
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D1 96214	974907
SCALE 1:1	SHEET 3



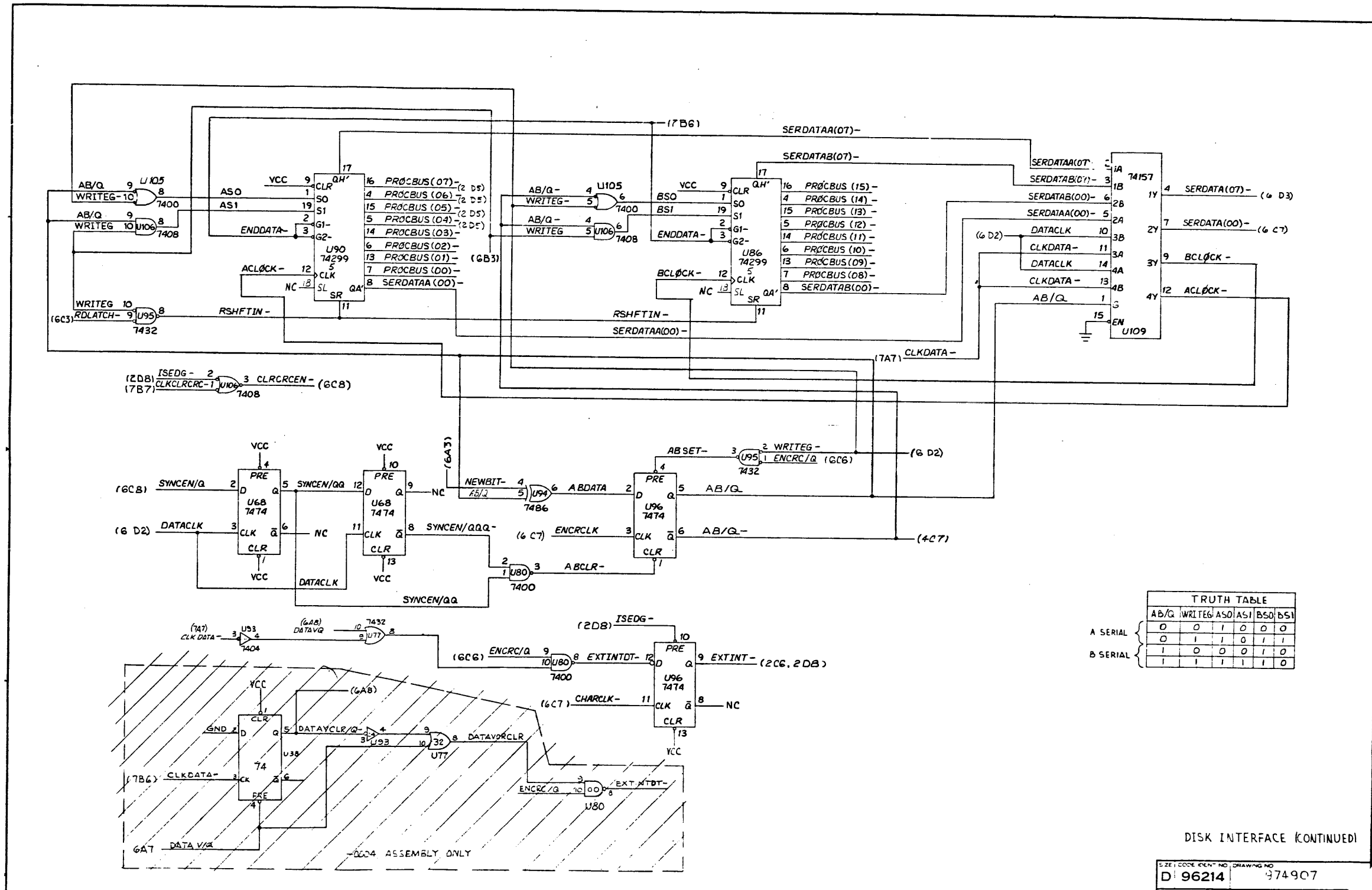
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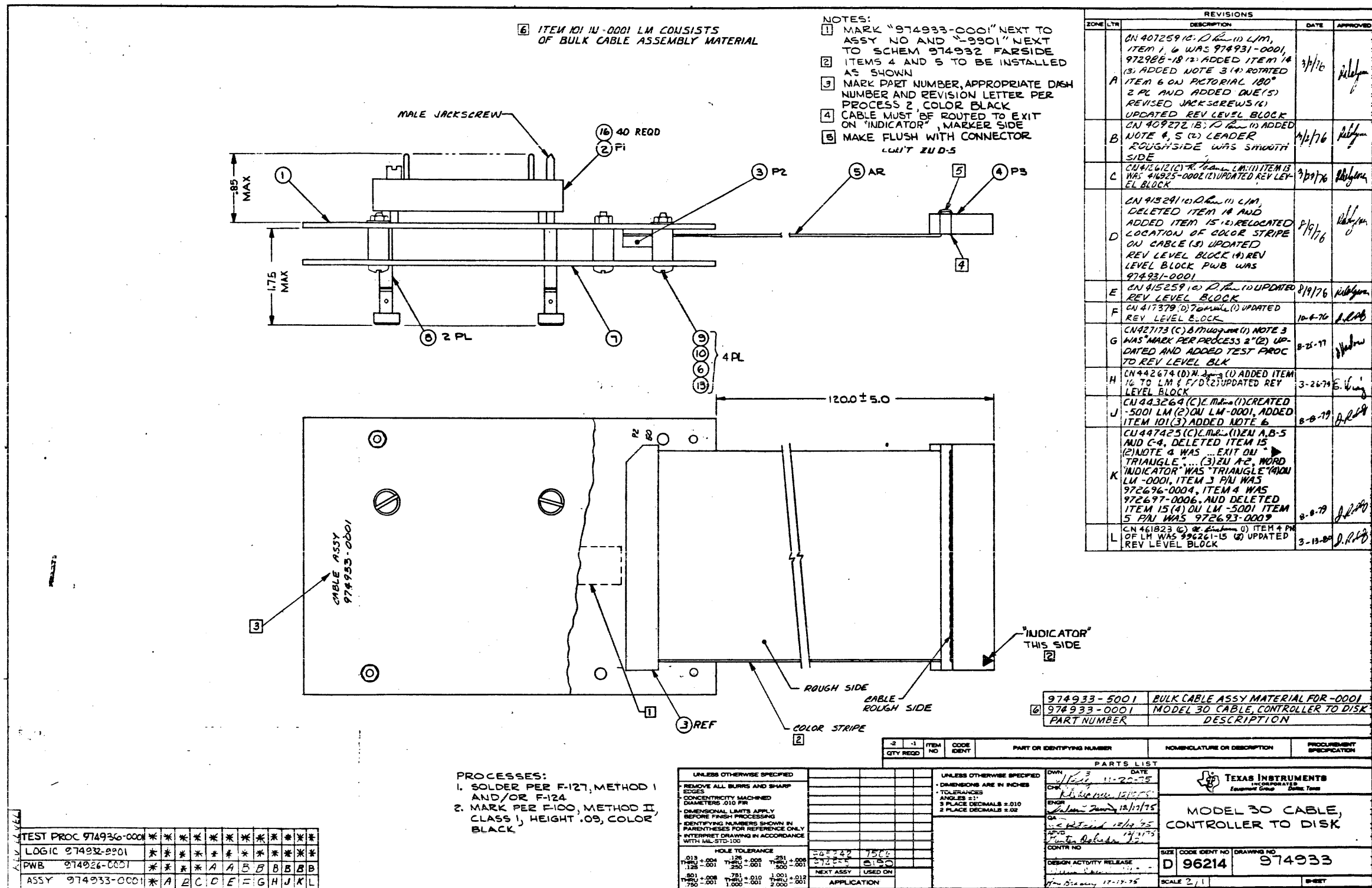


D 96214 | 974907  
 SCALE: | SHEET 6



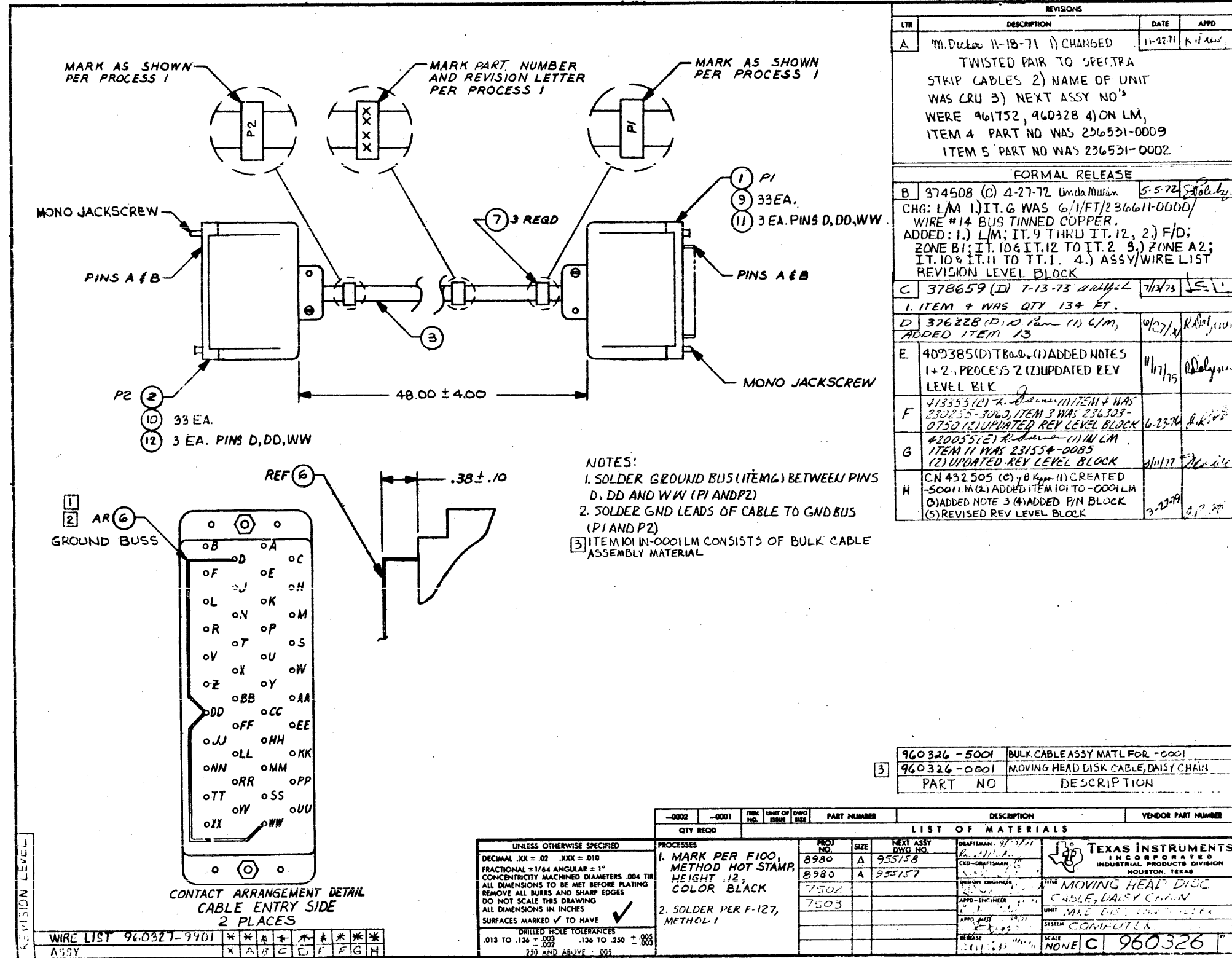






TEXAS INSTRUMENTS INCORPORATED		DATE 02/21/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0974933-0001		REV L		
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF MEAS.	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	0001.000	EA		0974926-0001	PNB, CABLE ADAPTER							
0002	0001.000	EA		0972780-0001	CONNECTOR, PIN, MINIATURE RECTANGULAR	081312-NRAC42PJIC						
0002A					P1							
0003	0001.000	EA		2210165-0004	HEADER, RADDLED TO RIBBON CBL, 50 POS	000779-88213-8						
0003A					P2							
0004	0001.000	EA		0996261-0016	CONNECTOR, RECEPT, 50POS W/STRAIN RELIEF	000779-88476-8						
0004A					P3							
0007	0001.000	EA		0974938-0001	COVER, TERMINATOR							
0008	0002.000	EA		0416925-0416	SPACER, SLEWEE, ALUM							
0011	REF	EA		0974932-9901	LOGIC DIAGRAM, MODEL 30 CABLE							
0012	REF	EA		0974936-9901	TEST PROCEDURE, FOR CABLE ADAPTER							
0013	0004.000	EA		0416925-0404	SPACER, ALUM, #4X.375							
0016	0004.000	EA		0996608-0003	CONT, MALE & FEMALE, PIN CONT W/DIP SOLDER	081312-8124						
0101	0001.000	EA		0974933-5001	BULK CABLE ASSEMBLY MATERIAL FOR -0001							
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE					
APPRO. MFG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	8190	PART NUMBER	LM 0974933-0001	REV	L

TEXAS INSTRUMENTS INCORPORATED		DATE 02/21/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0974933-5001		REV L		
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF MEAS.	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0005	0010.000	FT		0996491-0001	CABLE, FIBER, 50-CONDUCTOR, UL-2828	008261-655-240-50						
0006	0004.000	EA		0972988-0019	SCREW 4-40 X .750 PAN HEAD CRES							
0009	0004.000	EA		0411115-0044	NUT, 4-40 HEXAGON CRES STEEL	MS -35649-244						
0010	0004.000	EA		0411101-0057	LOCKWASHER # 4 EXTERNAL TOOTH CRES	QPL - MS35335-57						
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	BULK CABLE ASSEMBLY MATERIAL FOR -0001				
APPRO. MFG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.		PART NUMBER	LM 0974933-5001	REV	L



NOTES:  
 1. SOLDER GROUND BUS (ITEM 6) BETWEEN PINS D, DD AND WW (PI AND P2)  
 2. SOLDER GND LEADS OF CABLE TO GND BUS (PI AND P2)  
 3. ITEM 101 IN-0001LM CONSISTS OF BULK CABLE ASSEMBLY MATERIAL

REVISIONS			
LTR	DESCRIPTION	DATE	APPD
A	M. Decker 11-18-71 1) CHANGED TWISTED PAIR TO SPECTRA STRIP CABLES 2) NAME OF UNIT WAS CRU 3) NEXT ASSY NO'S WERE 961752, 960328 4) ON LM, ITEM 4 PART NO WAS 236531-0009 ITEM 5 PART NO WAS 236531-0002	11-22-71	R. J. Reed
FORMAL RELEASE			
B	374508 (C) 4-27-72 Linda Miller 5-5-72 J. J. Kelly CHG: L/M 1) IT. 6 WAS 6/1/FT/236611-0000/ WIRE #14 BUS TINNED COPPER. ADDED: 1.) L/M; IT. 9 THRU IT. 12, 2.) F/D; ZONE B1; IT. 10 & IT. 12 TO IT. 2 3.) ZONE A2; IT. 10 & IT. 11 TO IT. 1. 4.) ASSY/WIRE LIST REVISION LEVEL BLOCK		
C	378659 (D) 7-13-73 J. J. Kelly 7/13/73 J. J. Kelly 1. ITEM 4 WAS QTY 134 FT.		
D	376228 (D) 10-12-73 (1) L/M, 9/10/73 R. J. Reed ADDED ITEM 13		
E	409385 (D) T. B. ... (1) ADDED NOTES 1+2, PROCESS 2 (2) UPDATED REV LEVEL BLK 11/17/75 R. J. Reed		
F	413555 (D) R. J. Reed (1) ITEM 4 WAS 236531-0009, ITEM 3 WAS 236531-0750 (2) UPDATED REV LEVEL BLOCK 6-23-76 R. J. Reed		
G	430055 (E) R. J. Reed (1) L/M ITEM 11 WAS 23155-0085 (2) UPDATED REV LEVEL BLOCK 11/17/77 R. J. Reed		
H	CN 432505 (C) J. B. ... (1) CREATED -5001LM (2) ADDED ITEM 101 TO -0001LM (3) ADDED NOTE 3 (4) ADDED P/N BLOCK (5) REVISED REV LEVEL BLOCK 3-22-79 R. J. Reed		

3	960326 - 5001	BULK CABLE ASSY MATL FOR -0001
	960326 - 0001	MOVING HEAD DISK CABLE, DAISY CHAIN
	PART NO	DESCRIPTION

REVISION LEVEL

WIRE LIST 960327-9901	*	*	*	*	*	*	*	*	*
ASSY	X	A	B	C	D	E	F	G	H

UNLESS OTHERWISE SPECIFIED  
 DECIMAL .XX = .02 .XXX = .010  
 FRACTIONAL = 1/64 ANGULAR = 1°  
 CONCENTRICITY MACHINED DIAMETERS .004 TIR  
 ALL DIMENSIONS TO BE MET BEFORE PLATING  
 REMOVE ALL BURRS AND SHARP EDGES  
 DO NOT SCALE THIS DRAWING  
 ALL DIMENSIONS IN INCHES  
 SURFACES MARKED ✓ TO HAVE

DRILLED HOLE TOLERANCES  
 .013 TO .136 ± .003  
 .136 TO .250 ± .005  
 .250 AND ABOVE ± .005

QTY REQD	PROJ NO.	SIZE	NEXT ASSY DWG NO.	DRAWN BY	DATE	DESCRIPTION	VENDOR PART NUMBER
	8980	A	955158	J. J. Kelly	11/17/71	MOVING HEAD DISK CABLE, DAISY CHAIN	
	8980	A	955157	J. J. Kelly	11/17/71	MOVING HEAD DISK CABLE, DAISY CHAIN	
	7502			J. J. Kelly	11/17/71	MOVING HEAD DISK CABLE, DAISY CHAIN	
	7503			J. J. Kelly	11/17/71	MOVING HEAD DISK CABLE, DAISY CHAIN	

TEXAS INSTRUMENTS INCORPORATED INDUSTRIAL PRODUCTS DIVISION HOUSTON, TEXAS

SCALE NONE C 960326

TEXAS INSTRUMENTS INCORPORATED		DATE 09/05/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0960326-0001		REV H	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00001.000	EA		0539574-0002	CONNECTOR, PLUG 42 PIN	WIN -MRAC42PJTDH					
0001A					P1						
0002	00001.000	EA		0539574-0001	CONNECTOR, SOCKET 42 PIN	WIN -MRAC42SJTDH					
0002A					P2						
0008	REF	EA		0960327-9901	WIRE LIST, PT-TD-PT						
0013	REF	EA		0973585-9901	UNIT TEST PROCEDURE						
0101	00001.000	FA		0960326-5001	BULK CABLE ASSEMBLY MATERIAL FOR-0001						

DRAFTSMAN	DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE					
		<i>L. Ross</i>	2-6-79			MOVING HEAD DISK CABLE, DAISY CHAIN					
APPD. MFG	DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO	3980	PART NUMBER	LM0960326-0001	REV	H

TEXAS INSTRUMENTS INCORPORATED		DATE 09/05/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0960326-5001		REV H	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0003	00004.000	FT		0972435-0005	INSUL SLEEVING, 3/4" ID ZIPPER TUBE PVC	ZIP -2TR-3750-63-23					
0004	00025.000	FT		0772970-0005	CABLE, ELEC, FLAT (ST-1426-198-XL)						
0006	00001.000	FT		0411400-0016	WIRE, 16AWG, SOLID, UNINSULATED						
0007	00003.000	EA		0418201-0060	STRAP, MARKER, ADJUSTABLE, PLASTIC	QPL-MS-3368-1-98					
0009	00033.000	EA		0231554-0110	CONTACT, REMOVABLE, 24AWG	WIN --103-1024-P					
0010	00033.000	EA		0411378-0004	CONTACT ELECT FEMALE	GE -11637					
0011	00003.000	EA		0972739-0002	CONTACT #16 13 AMP SOCKET, CONNECTOR	036779-103-1016S					
0012	00003.000	EA		0418722-0002	CONTACT PIN, CRIMP, REMOVABLE SIZE 16 & 20 MIL	-MS17803-16-16					

DRAFTSMAN	DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE					
						BULK CABLE ASSEMBLY MATERIAL FOR-0001					
APPD. MFG	DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO		PART NUMBER	LM0960326-5001	REV	H

PROJ NO.	SIZE	NEXT ASSY DWG NO.	REVISIONS				
DESCRIPTION	DATE	APPD					
8980	C	960326	LTR				
7502							
7503							
REV							
SUPL SHEET							
REV							
SHEET							
REV STATUS OF SHEETS	REV SHEET	1	2	3	4		
DR <i>11/17/71</i> CKD <i>11/22/71</i> ENGR <i>11/22/71</i>	APPD <i>11-25-71</i> APPD <i>11/22/71</i> RELEASE <i>11/22/71</i>	TITLE WIRING LIST, POINT TO POINT, MOVING HEAD DISC CABLE, DAISY CHAIN				SCALE NONE	SIZE A
TEXAS INSTRUMENTS INCORPORATED INDUSTRIAL PRODUCTS DIVISION HOUSTON, TEXAS						REV	
TEXAS INSTRUMENTS INCORPORATED INDUSTRIAL PRODUCTS DIVISION HOUSTON, TEXAS						960327 SHEET 2	

WIRE NO.	DESCRIPTION	TOTAL LENGTH	SIGNATURE	COMPONENT CONNECTION FOR START STATION	COMPONENT CONNECTION FOR FINISH STATION	REMARKS	N/A LM ITEM NO.
1	WIRE RED	48" ↑	ADDS0-	P1-BB	P2-BB	∞	4
2	WHT		GRD	P1-GRD BUS	P2-GRD BUS		
3	RED		ADDS1-	P1-T	P2-T	∞	
4	WHT		GRD	P1-GRD BUS	P2-GRD BUS		
5	RED		ADDS2-	P1-TF	P2-TF	∞	
6	WHT		GRD	P1-GRD BUS	P2-GRD BUS		
7	RED		ADDS3-	P1-X	P2-X	∞	
8	WHT		GRD	P1-GRD BUS	P2-GRD BUS		
9	RED		ADDS4-	P1-J	P2-J	∞	
10	WHT		GRD	P1-GRD BUS	P2-GRD BUS		
11	RED		ADDS5-	P1-RR	P2-RR	∞	
12	WHT		GRD	P1-GRD BUS	P2-GRD BUS		
13	RED		ADDS6-	P1-N	P2-N	∞	
14	WHT		GRD	P1-GRD BUS	P2-GRD BUS		
15	RED		ADDS7-	P1-LI	P2-LI	∞	
16	WHT		GRD	P1-GRD BUS	P2-GRD BUS		
17	RED		RESTORE-	P1-VV	P2-VV	∞	
18	WHT		GRD	P1-GRD BUS	P2-GRD BUS		
19	RED		ADDS8-	P1-SS	P2-SS	∞	
20	WHT		GRD	P1-GRD BUS	P2-GRD BUS		
21	RED		HS-	P1-AA	P2-AA	∞	
22	WHT		GRD	P1-GRD BUS	P2-GRD BUS		
23	RED		WG-	P1-EE	P2-EE	∞	
24	WHT	48" ↓	GRD	P1-GRD BUS	P2-GRD BUS	∞	4

TEXAS INSTRUMENTS  
INCORPORATED  
INDUSTRIAL PRODUCTS DIVISION  
HOUSTON, TEXAS

**A**     960327  
SHEET 2

WIRE NO.	DESCRIPTION	TOTAL LENGTH	SIGNATURE	COMPONENT CONNECTION FOR START STATION	COMPONENT CONNECTION FOR FINISH STATION	REMARKS	N/A LA ITEM NO.
1	WIRE RED	48"	EG-	P1-K	P2-K	8	4
2	WHT	↑	GRD	P1-GRD BUS	P2-GRD BUS		
3	RED		RG-	P1-E	P2-E	8	
4	WHT		GRD	P1-GRD BUS	P2-GRD BUS		
5	RED		WDNCLK-	P1-B	P2-B	8	
6	WHT		GRD	P1-GRD BUS	P2-GRD BUS		
7	RED		SELU0-	P1-L	P2-L	8	
8	WHT		GRD	P1-GRD BUS	P2-GRD BUS		
9	RED		SELU1-	P1-R	P2-R	8	
10	WHT		GRD	P1-GRD BUS	P2-GRD BUS		
11	RED		SELU2-	P1-V	P2-V	8	
12	WHT		GRD	P1-GRD BUS	P2-GRD BUS		
13	RED		SELU3-	P1-Z	P2-Z	8	
14	WHT		GRD	P1-GRD BUS	P2-GRD BUS		
15	RED		FRY-	P1-U	P2-U	8	
16	WHT		GRD	P1-GRD BUS	P2-GRD BUS		
17	RED		RTS/R/W-	P1-F	P2-F	8	
18	WHT		GRD	P1-GRD BUS	P2-GRD BUS		
19	RED		AD&ALK-	P1-NN	P2-NN	8	
20	WHT		GRD	P1-GRD BUS	P2-GRD BUS		
21	RED		SK1C-	P1-TT	P2-TT	8	
22	WHT		GRD	P1-GRD BUS	P2-GRD BUS		
23	RED	↓	RCLK-	P1-A	P2-A	8	
24	WIRE WHT	48"	GRD	P1-GRD BUS	P2-GRD BUS		4

TEXAS INSTRUMENTS  
INCORPORATED  
INDUSTRIAL PRODUCTS DIVISION  
HOUSTON, TEXAS

A 960327  
SHEET 3

REV

WIRE NO.	DESCRIPTION	TOTAL LENGTH	SIGNATURE	COMPONENT CONNECTION FOR START STATION	COMPONENT CONNECTION FOR FINISH STATION	REMARKS	N/A LA ITEM NO.
1	WIRE RED	48"	RD-	P1-C	P2-C	8	4
2	WHT	↑	GRD	P1-GRD BUS	P2-GRD BUS		
3	RED		SECTORM-	P1-W	P2-W	8	
4	WHT		GRD	P1-GRD BUS	P2-GRD BUS		
5	RED		INDEXM-	P1-Y	P2-Y	8	
6	WHT		GRD	P1-GRD BUS	P2-GRD BUS		
7	RED		WCHK-	P1-HH	P2-HH	8	
8	WHT		GRD	P1-GRD BUS	P2-GRD BUS		
9	RED		MPS-	P1-P	P2-P	8	
10	WHT		GRD	P1-GRD BUS	P2-GRD BUS		
11	RED		ATTENT0-	P1-H	P2-H	8	
12	WHT		GRD	P1-GRD BUS	P2-GRD BUS		
13	RED		ATTENT1-	P1-M	P2-M	8	
14	WHT		GRD	P1-GRD BUS	P2-GRD BUS		
15	RED		ATTENT2-	P1-S	P2-S	8	
16	WHT		GRD	P1-GRD BUS	P2-GRD BUS		
17	RED	↓	ATTENT3-	P1-XX	P2-XX	8	
18	WIRE WHT	48"	GRD	P1-GRD BUS	P2-GRD BUS		4

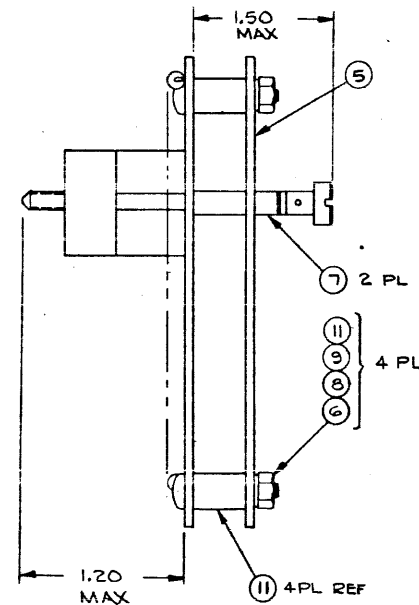
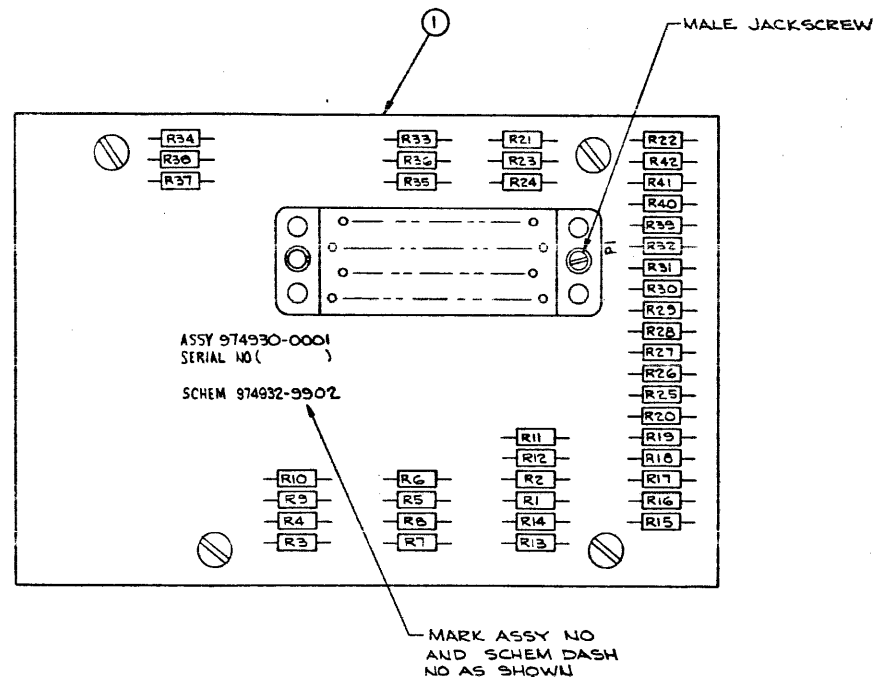
TEXAS INSTRUMENTS  
INCORPORATED  
INDUSTRIAL PRODUCTS DIVISION  
HOUSTON, TEXAS

A 960327  
SHEET 4

REV

NOTES:  
1. TEST AT NEXT HIGHER ASSEMBLY

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED



PROCESSES:  
1. SOLDER PER F-127, METHOD I AND/OR F-124  
2. MARK PER F-100, METHOD II, CLASS I, HEIGHT .09, COLOR BLACK

LOGIC	974932-9902	*	
PWB	974931-0001	*	
ASSY	974930-0001	*	

QTY	REQD	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION

UNLESS OTHERWISE SPECIFIED		UNLESS OTHERWISE SPECIFIED	
REMOVE ALL BURRS AND SHARP EDGES	CONCENTRICITY MACHINED DIAMETERS .010 FIR	DIMENSIONS ARE IN INCHES	ANGLES ±1°
DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING	IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY	3 PLACE DECIMALS ±.010	2 PLACE DECIMALS ±.02
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100		INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100	

DWR	DATE	11-15-75
CHK	DATE	12/18/75
ENGR	DATE	12/17/75
GA	DATE	12/19/75
APPD	DATE	12/19/75
CONTR NO		
DESIGN ACTIVITY RELEASE		

SIZE	CODE IDENT NO	DRAWING NO
D	96214	974930
SCALE		SHEET

TEXAS INSTRUMENTS  
INCORPORATED  
Dallas Texas

TERMINATOR MODEL 30  
DISC DRIVE





**TEXAS INSTRUMENTS**  
INCORPORATED

**LIST OF MATERIAL**

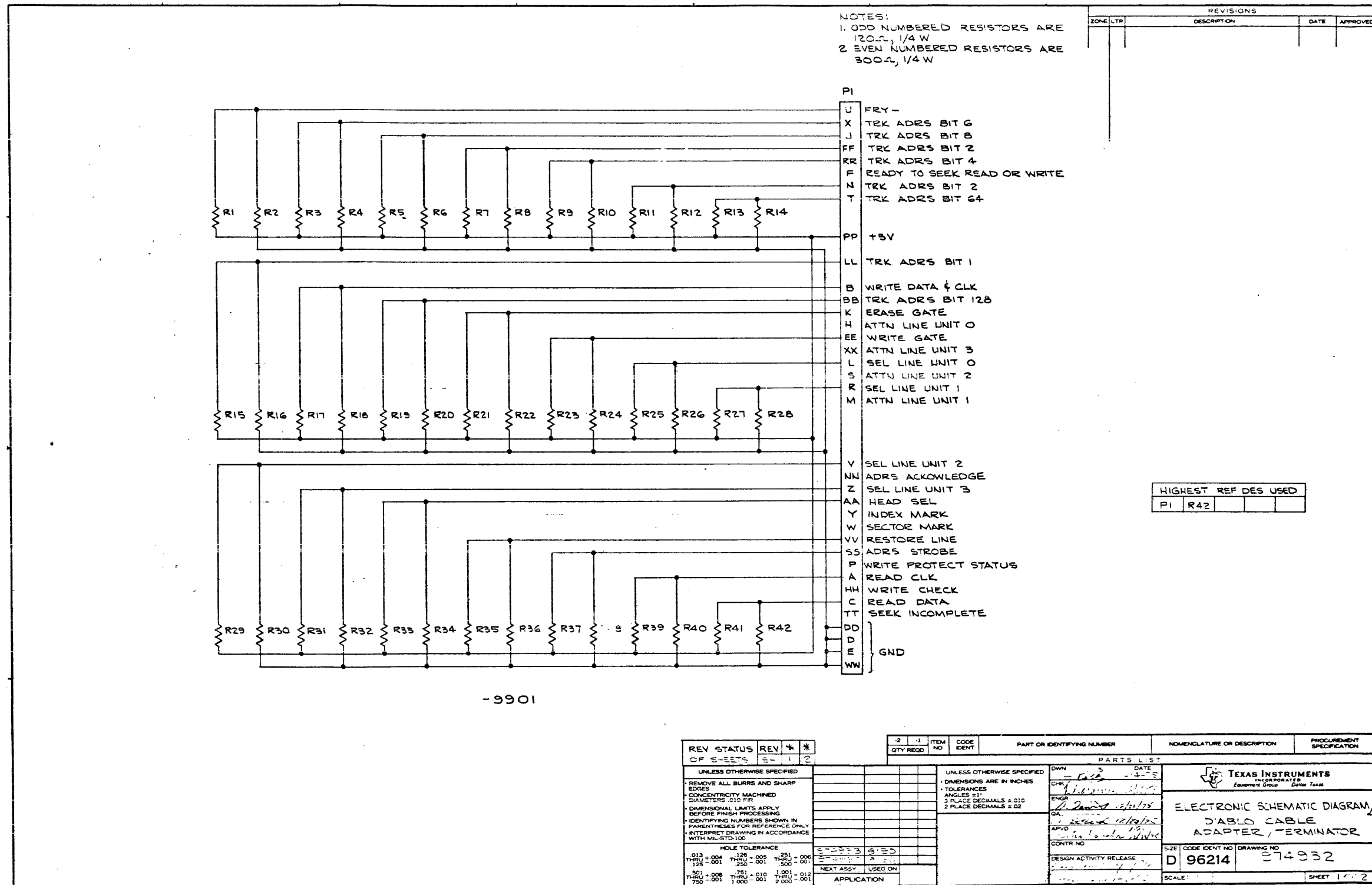
DATE 12/15/75

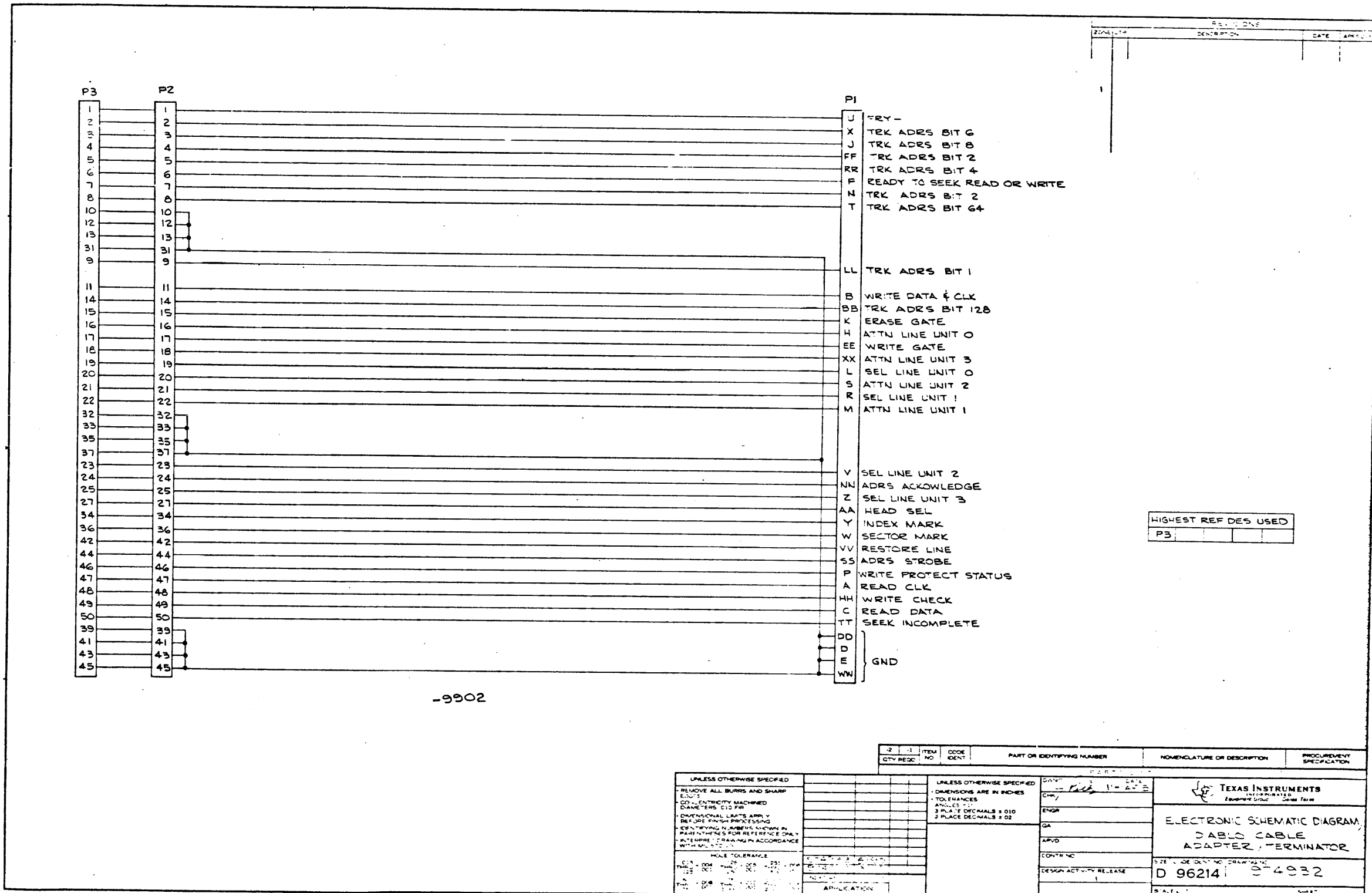
PAGE 1 of

LM 974930-0001

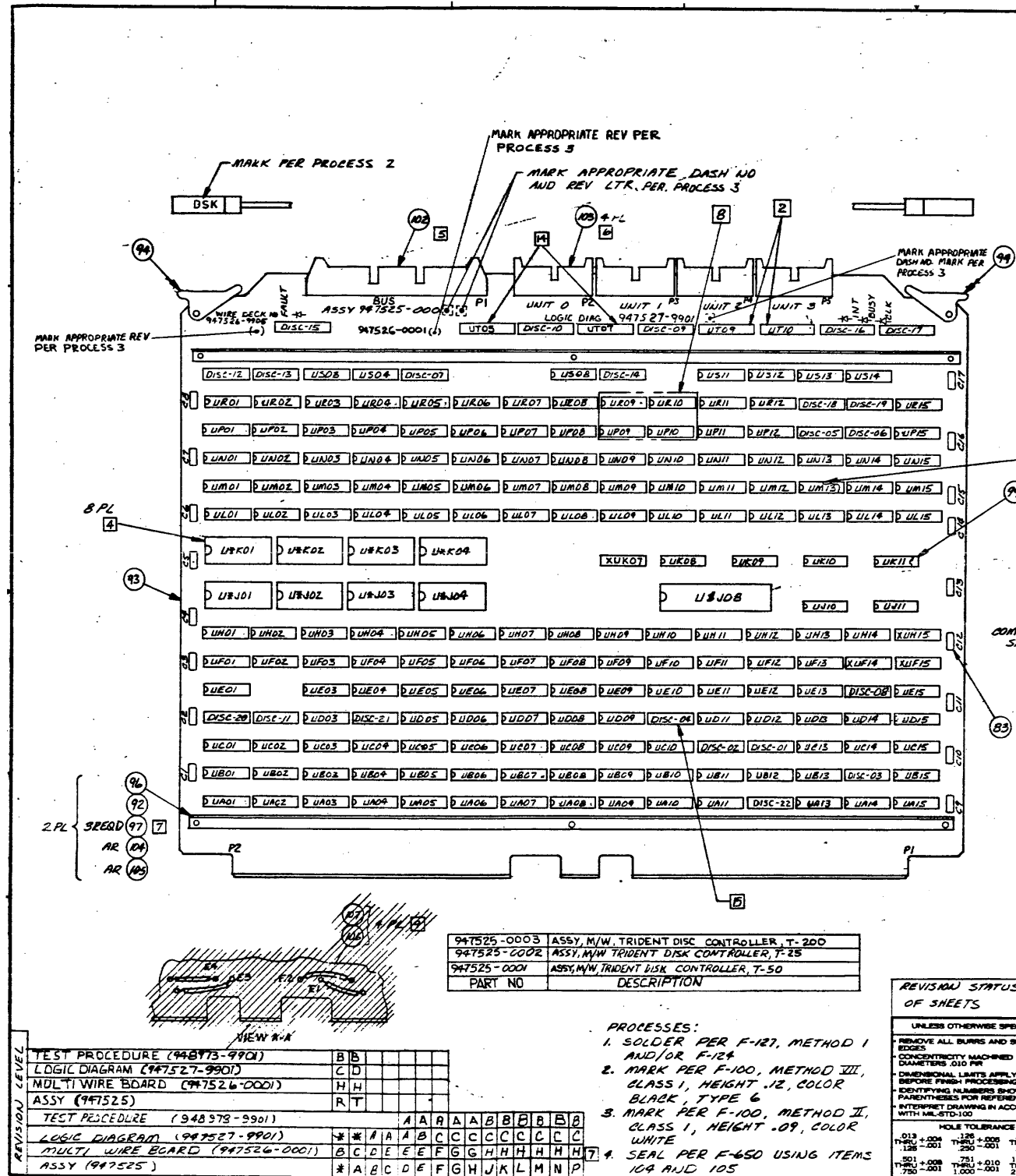
ITEM NUMBER	QUANTITY ASSEMBLY	UNIT OF MEAS	DRWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0001	00001.000	EA		974931-0001	PWB, MCD 30 CABLE, CONTROLLER TO DISC	
0002	00001.000	EA		972730-0002	CONNECTOR, MINIATURE, RECTANGULAR	
0002A					P1	
0003	00021.000	EA		9729+6-0043	RES FIX 120 OHM 5 % .25 W CARBON FILM	ROH- R-25
0003A					R1 R3 R5 R7 R9 R11 R13 R15	
0003B					R17 R19 R21 R23 R25 R27 R29	
0003C					R31 R33 R35 R37 R39 R41	
0004	00021.000	EA		9729+0-0052	RES FIX 300 OHM 5 % .25 W CARBON FILM	ROH- P-25
0004A					R2 R4 R6 R8 R10 R12 R14 R16	
0004B					R18 R20 R22 R24 R26 R28 R30	
0004C					R32 R34 R36 R38 R40 R42	
0005	00001.000	EA		974933-0001	COVER, TERMINATOR	
0006	00004.000	EA		972938-0013	SCREW 4-40 X .625 PAN HEAD CRES	
0007	00002.000	EA		416925-0410	SPACER, SLEEVE, ALUM	
0008	00004.000	EA		411111-0057	LOCKWASHER # 4 EXTERNAL TOOTH CRES	QPL- MS35335-57
0009	00004.000	EA		411115-0044	NUT, 4-40 HEXAGON CRES STEEL	MS -35649-244
0010	REF	EA		974932-9902	DIAGRAM, MODEL 30 TERMINATOR	
0011	00004.000	EA		416925-0002	SPACER-SCREW & BOLT, 3/8 LONG	

DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE
	12/15/75		12/15/75		12/15/75		12/15/75		12/15/75
DESIGNER	PROJECT ENGINEER	DESIGN ENGINEER	RELEASED	TITLE	PROJECT NO	PART NUMBER	REV		
				ASSY, MODEL 30 DISK DRIVE TERMINATOR		LM 974930-0001	*		





-9902



- NOTES:
1. SEE SHEET 2 FOR VIEWS OF DISC 01 THRU 21
  2. DEVICES THAT PLUG INTO LOCATIONS UT09 AND UT10 SHALL HAVE DEVICE PIN 1 PLUGGED INTO LOCATION PIN 2
  3. FOR PROPER INSTALLATION OF ITEM 99 (20 PIN SOCKET) PERFORM THE FOLLOWING STEPS:  
INSTALL A SOCKET AT PIN 1 OF LOCATION #80B.  
SKIP THREE PINS AND INSTALL THE NEXT SOCKET IN THE FOURTH PIN FOLLOWING THE LAST PIN OF THE PREVIOUS IC. THERE SHOULD BE 3 OPEN PINS BETWEEN SOCKETS.  
REPEAT THIS UNTIL SOCKETS FOR UK08, UK09, UK10 AND UK11 ARE INSTALLED. INSTALL A SOCKET AT PIN ONE OF LOCATION #710. SKIP 3 PINS AND INSTALL THE NEXT IC. AFTER ASSY REVC IS AVAILABLE (NEW SILK SCREEN) INSTALL THE SOCKETS FOR UK08, UK09, UK10, UK11 AND UK12 AS OUTLINED ON THE BOARD.

ZONE	LTR	DESCRIPTION	DATE	APPROVED
A		CN4076 BLC (1) REVISED LM AND PD PER EXTENSIVE ENGR CHANGES (2) UPDATED REV LEVEL BLOCK	4/6/76	J. R. ...
B		CN 407605 (1) REVISED PER EXTENSIVE ENGR CHG (2) UPDATED REV LVL BLK	4/17/76	J. R. ...
C		CN 4191A (1) REVISED PER EXTENSIVE ENGR CHG (2) REV REV LVL BLK	4/17/76	J. R. ...
D		CH417882 (E) 3 TRIDENT (1) ON - C LK. ITEM 5 REF DES UN14 HAS UD14 (2) UPDATED REV LVL BLK & ADDED TEST PROC	1-28-77	J. R. ...
E		CN 420486 (E) 74H (1) REVISED PER EXTENSIVE ENGR CHANGES	5-31-77	J. R. ...
F		CN 420486 (E) 74H (1) REVISED PER EXTENSIVE ENGR CHANGES	4-19-77	J. R. ...
G		CN 420486 (E) 74H (1) REVISED PER EXTENSIVE ENGR CHANGES	6-2-77	J. R. ...

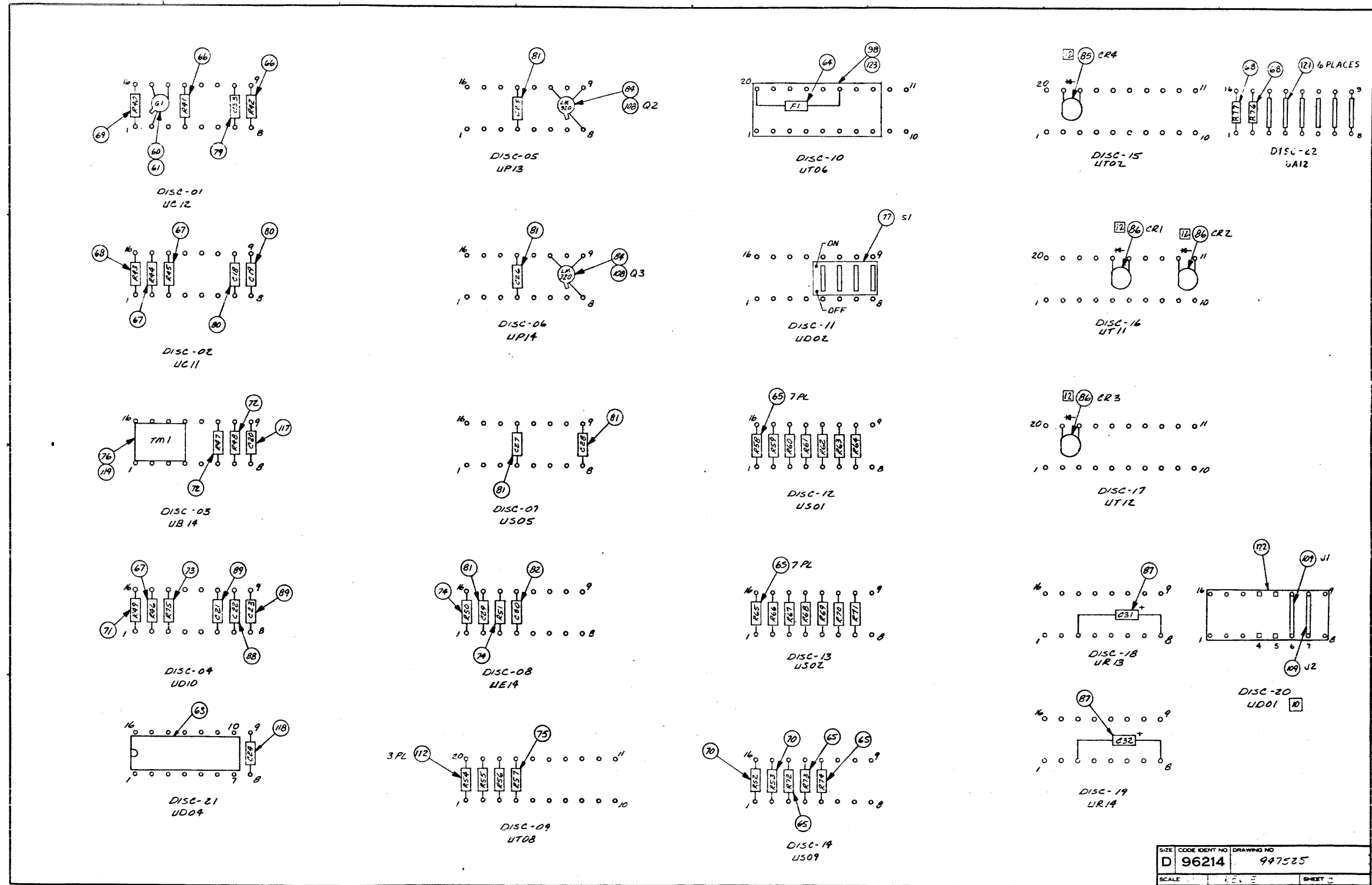
(REV CONTINUED - SH. 3)

- NOTES: (CONDD)
4. FOR PROPER INSTALLATION OF ITEM 31 (28 PIN IC) PERFORM THE FOLLOWING STEPS: INSTALL A IC AT PIN 1 OF LOCATION #K01. SKIP ONE PIN AND INSTALL NEXT IC (REPEAT THIS UNTIL IC FOR UK K01, UK K02, UK K03 AND UK K04 ARE INSTALLED) INSTALL A IC AT PIN 1 OF LOCATION #J01. SKIP ONE PIN AND INSTALL THE NEXT IC (REPEAT THIS UNTIL IC - FOR UK U01, UK U02, UK U03 AND UK U04 ARE INSTALLED) DISREGARD THE CHIP PLACEMENT "SILK SCREEN" FOR THESE IC'S. AFTER ASSY REVC IS AVAILABLE (NEW SILK SCREEN) INSTALL THE CHIPS AT UJ01 THROUGH UJ04 AND UK01 THROUGH UK04 AS OUTLINED ON THE BOARD.
  5. INSTALL ITEM 102 PIN 1 AT P3-99
  6. INSTALL ITEM 103 PIN 1 AT P3-10, P3-29, P3-48, P3-67
  7. SEAL ITEM 97 PER PROCESS 4
  8. PLUG ALL 14 PIN DEVICES LEFT JUSTIFIED IN 16 PIN LOCATIONS EXCEPT AT LOCATIONS UP09, UP10, URO9, UK10. AT THESE LOCATIONS THE CHIPS SHOULD BE STUFFED BY STARTING AT PIN 2 OF THE CHIP
  9. US306 DEVICES 104 AND 107. INSTALL VCC AND GROUND CONNECTIONS AS LISTED BELOW ON BACK WIRE SIDE WITH NO PROTECTIONS ON COMPONENT SIDE. E1 TO P2 - 14/18 VCC, E2 TO P2 - 28/30 GND, E3 TO P2 - 14/18 GND, E4 TO P2 - 28/30 VCC.
  10. DISC-20 DRAWING SHOWS THE CONNECTION FOR USE OF THE DISK CONTROLLER ON A 990/10 COMPUTER THE JUMPER CONNECTIONS ARE MADE FROM PINS 7 TO 10 AND 6 AND 11 OF UJ01 LOCATION. IF THE CONTROLLER IS TO BE USED ON A 990/9 COMPUTER THE JUMPERS LISTED ABOVE SHOULD BE REMOVED AND INSERTED IN PINS 9 TO 13 AND 5 TO 12 OF LOCATION UJ01
  11. USING ITEM 121 INSTALL JUMPERS AS FOLLOWS:  
TG6-15 - P3-10 - P3-29 - P3-48 - P3-67
  12. INSERT THE LED'S AS FAR INTO THE BOARD AS POSSIBLE AND THEN BEND THEM AT APPROXIMATELY A 45° ANGLE TOWARD THE TOP OF THE BOARD
  13. REWORK FOR ASSY USING PWB REV F AND EARLIER AS FOLLOWS:  
A. CUT AND ISOLATE THE FOLLOWING IC PIN FROM ETCH:  
BOB-12  
B. ADD THE FOLLOWING WIRES TO THE ASSY. USE ITEM 121.  
R13-4 TO BOB-12 (IC PIN)  
R13-1 TO R13-5 TO R13-6  
R13-2 TO R11-1  
R13-3 TO R11-15  
R13-7 TO R13-8
- (NOTES CONTINUED - SH. 3)

PROCESSES:

1. SOLDER PER F-127, METHOD I AND/OR F-124
2. MARK PER F-100, METHOD III, CLASS 1, HEIGHT .12, COLOR BLACK, TYPE 6
3. MARK PER F-100, METHOD II, CLASS 1, HEIGHT .09, COLOR WHITE
4. SEAL PER F-650 USING ITEMS 104 AND 105

Trident Disk Controller Multiwire Assembly



- 14. USING LONG NOSE PLIERS OR OTHER SUITABLE TOOL MODIFY TWO 20 PIN SOCKETS (ITEM 97), FOR USE AT LOCATIONS T05 AND T07, BY COMPLETELY REMOVING PIN 20 BEFORE INSTALLATION.
- 15. RESISTOR VALUES R46 AND R49 OF DISC-04 PINS 1, 16 AND PINS 2, 15 MAY BE CHANGED BY UNIT TEST AS OUTLINED IN THE TEST PROCEDURE, 94-8973
- 16. REWORK FOR ASSY REV A AND EARLIER. REMOVE C19 AT LOCATION C11 PINS 8 AND 9. INSTALL A 1500PF CAPACITOR (ITEM 127) PN 972929-0400 AT THIS LOCATION

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
	H	CN390424(B)C. 20 pin sockets (1) REVISED PER EXTENSIVE ENGRG CHANGE 2 ADDED SN 3	6-6-77	J.R. Pugh
	J	CN421189(D) 20 pin sockets (1) UPDATED REV LEVEL BLOCK (CN 11)	6-6-77	J.R. Pugh
	K	CN420007(E) 18 pin sockets (1) AND -2 LM'S ITEM 122 WAS 996526-0002 (2) UPDATED REV LEVEL BLOCK	7/6/77	Stewart
	L	CN420394(D) 20 pin sockets (1) LM, ITEM 96 WAS 975461-0001 (2) UPDATED REV LEVEL BLOCK	8-10-77	J.R. Pugh
	M	CN427209(C) 20 pin sockets (1) -0001 LM ONLY, ITEM 83 PN WAS 972627-0009 (2) UPDATED REV LEVEL BLOCK	9/11/77	Stewart
	N	CN426467(C) 20 pin sockets (1) LM, ITEM 94 WAS 413277-0001 (2) DELETED ITEM 95 (3) UPDATED REV LEVEL BLOCK	10-4-77	J.R. Pugh
	P	CN427185(C) 20 pin sockets (1) NOTE 4 WAS REMOVE PIN 20... T05 AND T07 (2) ADDED NOTE 15 (3) UPDATED REV LEVEL BLOCK	10-20-77	J.R. Pugh
	R	CN433313(C) 20 pin sockets (1) ITEM 115 125, 126 & 127 PN WAS 947581-0018, 947581-0019, 947581-0022 RESP (2) UPDATED REV LEVEL BLOCK	10-16-77	J.R. Pugh
	T	CN433386(B) 20 pin sockets (1) -0001 LM ITEM 80 QTY WAS 2 (2) -0001 LM ADDED ITEM 127 (3) ADDED NOTE 16 (4) UPDATED REV LEVEL BLOCK	10-16-77	J.R. Pugh

DATE	DATE	DATE	DATE
ISSUE DATE	ISSUE DATE	ISSUE DATE	ISSUE DATE
9-30-77	9-30-77	9-30-77	9-30-77
947525	947525	947525	947525
D96214	D96214	D96214	D96214
T	T	T	T

TEXAS INSTRUMENTS INCORPORATED		DATE 09/20/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0947525-0001		REV T		
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00010.000	FA		0972787-0003	NETWORK SN74LS367N							
0001A					UA01 UA02 UA03 UA04 UA05							
0001B					UB01 UB02 UB03 UF02 UM10							
0002	00001.000	EA		0972787-0004	NETWORK SN74LS368N							
0002A					UA06							
0003	00014.000	EA		0974674-0001	NETWORK SN75138N							
0003A					UA07 UA08 UA09 UL01 UL02							
0003B					UL03 UL04 UP15 UR01 URQ3							
0003C					UR05 UR07 US04 US08							
0004	00003.000	FA		0240000-7411	NETWORK-SN74H11N							
0004A					UA10 UF13 UL06							
0005	00007.000	EA		0972900-7404	NETWORK SN74LS04N							
0005A					UA14 UC08 UE10 UM09							
0005B					UN14 UN15 US12							
0006	00004.000	FA		0219402-7138	NETWORK SN74S138N							
0006A					UA15 UC13 UC14 UC15							
0007	00001.000	EA		0219402-7400	NETWORK SN74S00N							
0007A					UF10							
0008	00001.000	FA		0972900-7420	NETWORK SN74LS20N							
0008A					UF06							
DRAFTSMAN		DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	ASSY, M/W, TRIDENT DISK CONTROLLER, T-50				
APPRO. MFG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	7506	PART NUMBER	LM0947525-0001	REV	T

TEXAS INSTRUMENTS INCORPORATED		DATE 09/20/79		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM0947525-0001		REV T		
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0009	00001.000	EA		0972784-0001	NETWORK SN74LS13N							
0009A					UB05							
0010	00002.000	EA		0240000-7404	NETWORK SN74H04N							
0010A					UB06 UE05							
0011	00006.000	EA		0972900-7400	NETWORK SN74LS00N	TI	-SN74LS00N					
0011A					UB07 UE01 UE06 UF11 UL07							
0011B					UA11							
0012	00003.000	EA		0240000-7400	NETWORK-SN74H00N							
0012A					UB08 UB10 UF12							
0013	00001.000	EA		0240000-7451	NETWORK-SN74H51N							
0013A					UB09							
0014	00002.000	EA		0222222-7407	NETWORK-SN7407N	TI	-SN7407N					
0014A					UB11 UC09							
0015	00003.000	EA		0972900-7109	NETWORK SN74LS109N	TI	-SN74LS109N					
0015A					UB13 UE09 UL08							
0016	00001.000	FA		0222222-7497	NETWORK SN7497N							
0016A					UB15							
0017	00004.000	FA		0974849-0001	NETWORK, DM8136							
0017A					UC01 UC02 UC03 UB12							
0018	00001.000	EA		0972900-7410	NETWORK SN74LS10N							
DRAFTSMAN		DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	ASSY, M/W, TRIDENT DISK CONTROLLER, T-50				
APPRO. MFG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.		PART NUMBER	LM0947525-0001	REV	T

TEXAS INSTRUMENTS INCORPORATED		DATE 09/20/79		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM0947525-0001		REV T		
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0018A					UC05							
0019	00002.000	EA		0240000-7474	NETWORK-SN74H74N							
0019A					UC06 UC08							
0020	00003.000	EA		0972749-0001	NETWORK, SN74LS08N							
0020A					UC07 UD05 UL15							
0021	00002.000	EA		0222222-7132	NETWORK SN74132N							
0021A					UC10 UD09							
0022	00001.000	EA		0972900-7432	NETWORK SN74LS32N	TI	-SN74LS32N					
0022A					UD06							
0023	00004.000	FA		0972900-7402	NETWORK SN74LS02N							
0023A					UD07 UL10 UL11 UL14							
0024	00007.000	EA		0996049-0001	IC, SN74LS298N QUAD 2-INPUT MP XR	TI	-SN74LS298N					
0024A					UD11 UD13 UM01 UM03 UM05							
0024B					UM07 UN11							
0025	00001.000	EA		0972751-0001	NETWORK, SN74LS06N							
0025A					UD12							
0026	00004.000	EA		0222222-7173	NETWORK SN74173N							
0026A					UD14 UD15 UF07 UF08							
0027	00002.000	FA		0972654-0001	NETWORK, SN74LS670N							
0027A					UE03 UE04							
DRAFTSMAN		DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	ASSY, M/W, TRIDENT DISK CONTROLLER, T-50				
APPRO. MFG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.		PART NUMBER	LM0947525-0001	REV	T

TEXAS INSTRUMENTS INCORPORATED		DATE 09/20/79		LIST OF MATERIAL		PAGE 4 of		PART NUMBER LM0947525-0001		REV T		
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0028	00001.000	EA		0222222-7437	NETWORK SN7437N							
0028A					UE08							
0029	00001.000	FA		0222222-7148	NETWORK SN74148N							
0029A					UF01							
0030	00002.000	FA		0219402-7157	NETWORK SN74S157N							
0030A					UF03 UF04							
0031	00003.000	EA		0219402-7182	NETWORK SN74S182N	TI	-SN74S182N					
0031A					UF05 UM03 UM05							
0032	00006.000	EA		0972686-0001	NETWORK-QUAD MULTIPLEXER, SN74LS157N							
0032A					UH01 UM02 UM06 UM07 UL12							
0032B					UN12							
0033	00001.000	EA		0219402-7153	NETWORK SN74S153N	TI	-SN74S153N					
0033A					UH04							
0034	00001.000	EA		0219402-7151	NETWORK SN74S151N							
0034A					UH08							
0036	00001.000	FA		0996029-0001	IC, SN74LS273N DCTAL D-TYPE FLIP/FLOP	TI	-SN74LS273N					
0036A					UJ11							
0037	00008.000	FA		0974859-0001	NETWORK, RT-POLAR 2BIT PROCESSOR -3002							
0037A					U*J01 U*J02 U*J03 U*J04							
0037B					U*K01 U*K02 U*K03 U*K04							
DRAFTSMAN		DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	ASSY, M/W, TRIDENT DISK CONTROLLER, T-50				
APPRO. MFG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.		PART NUMBER	LM0947525-0001	REV	T

TEXAS INSTRUMENTS INCORPORATED

DATE 09/20/79 LIST of MATERIAL PAGE 5 of LM0947525-0001 REV T

PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0038	00001.000	EA		0974858-0001	NETWORK, BI-POLAR MICRO CONTROL -3001	
0038A					USJ08	
0039	00001.000	EA		0972900-7454	NETWORK SN74LS54N	TI -SN74LS54N
0039A					UE07	
0040	00002.000	EA		0972900-7197	NETWORK SN74LS197N	TI -SN74LS197N
0040A					UE11 UE12	
0041	00001.000	EA		0972159-7221	NETWORK SN74221N	TI- -SN74221N
0041A					UE13	
0042	00003.000	EA		0972900-7474	NETWORK SN74LS74N	
0042A					UE15 UH10 UM14	
0043	00002.000	EA		0219402-7474	NETWORK SN74S74N	
0043A					UH11 UF09	
0044	00001.000	EA		0219402-7408	NETWORK SN74S08N	TI- -SN74S08N
0044A					UH12	
0045	00001.000	EA		0222222-7470	NETWORK SN7470N	-SN7470N
0045A					UH13	
0046	00004.000	FA		0972900-7174	NETWORK SN74LS174N	
0046A					UH14 UR02 UR04 UR06	
0047	00002.000	EA		0219402-7260	NETWORK SN74S260N	
0047A					UL05 UM15	

ASSEMBLYMAN DATE CRO DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE ASSY,M/W,TRIDENT DISK CONTROLLER,T-50  
 APPO-ING. DATE APPO PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM0947525-0001 T

TEXAS INSTRUMENTS INCORPORATED

DATE 09/20/79 LIST of MATERIAL PAGE 6 of LM0947525-0001 REV T

PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0048	00003.000	EA		0219402-7163	NETWORK, SN74LS163N	
0048A					UL09 UM09 UB04	
0049	00001.000	EA		0972813-0301	NETWORK-SN74LS21N	
0049A					UL13	
0050	00005.000	EA		0972900-7195	OBSOLETE P/N REPLC BY 996427-0001	TI -SN74LS195N
0050A					UM02 UM04 UM06 UM08 UP12	
0051	00001.000	EA		0972900-7175	NETWORK SN74LS175N	
0051A					UM11	
0052	00009.000	EA		0972900-7153	NETWORK SN74LS153N	TI -SN74LS153N
0052A					UM12 UP01 UP02 UP03 UP04	
0052B					UP05 UP06 UP07 UP08	
0053	00001.000	EA		0974866-0001	NETWORK,CRC GENERATOR	FCD -9401
0053A					UM13	
0054	00010.000	EA		0800006-0002	IC,3341ADC,MOS MEM 64-WORD X 4 BIT	FCD -3341ADC
0054A					UN01 UN02 UN03 UN04 UN05	
0054B					UN06 UN07 UN08 UN09 UN10	
0055	00001.000	EA		0972159-7265	NETWORK, SN74265N	
0055A					UN13	
0056	00001.000	FA		0222222-7438	NETWORK SN7438N	
0056A					UP11	

ASSEMBLYMAN DATE CRO DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE ASSY,M/W,TRIDENT DISK CONTROLLER,T-50  
 APPO-ING. DATE APPO PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM0947525-0001 T

TEXAS INSTRUMENTS INCORPORATED

DATE 09/20/79 LIST of MATERIAL PAGE 7 of LM0947525-0001 REV T

PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0057	00001.000	EA		0219402-7175	NETWORK SN74S175N	
0057A					UR08	
0058	00004.000	EA		0219401-1108	NETWORK INTERFACE MIC SN75108N	
0058A					UR11 UR12 UR15 US11	
0059	00002.000	EA		0219401-1113	NETWORK SN75110N	-SN75110N
0059A					US13 US14	
0060	00001.000	FA		0972949-0002	TRANSISTOR,2N2222A NPN GEN PURP Sw TO-18	TI -2N2222A
0060A					Q1	
0061	00001.000	FA		0145113-0001	X SPACER XST TO-18 CASE	* -
0062	00002.000	EA		0972037-1910	NETWORK,RES 16 PIN R ELFM- 91.00 OHMS	BEC -898-3-R91
0062A					UT09 UT10	
0063	00002.000	EA		0972141-0041	NETWORK,RES. 1.0 K CHM 2 & 14 PIN DIP	BFC -899-1-F1.0K
0063A					UD03 UD04	
0064	00001.000	EA		0537399-0309	FUSE 2.0 A 125V RADIAL LEAD	LIT -276.002
0064A					F1	
0065	00017.000	EA		0972946-0041	RES FIX 100 OHM 5 & .25 W CARBON FILM	ROH -R-25
0065A					R58 R59 R60 R61 R62 R63	
0065B					R64 R65 R66 R67 R68 R69	
0065C					R70 R71 R72 R73 R74	
0066	00002.000	EA		0972975-0031	RES FIX COMP 220 OHMS 5 & 1/8 WATT	QPL -RC05G221JS

ASSEMBLYMAN DATE CRO DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE ASSY,M/W,TRIDENT DISK CONTROLLER,T-50  
 APPO-ING. DATE APPO PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM0947525-0001 T

TEXAS INSTRUMENTS INCORPORATED

DATE 09/20/79 LIST of MATERIAL PAGE 8 of LM0947525-0001 REV T

PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0066A					R41 R42	
0067	00003.000	EA		0539370-0339	RES FIX FILM 332 OHM 1/4 .25 WATT	COB -NA55D-100PPM/C
0067A					R44 R45 R46	
0068	00003.000	FA		0972975-0049	RES FIX COMP 1.0 K OHMS 5 & 1/8 WATT	OPL -RC05G102JS
0068A					R43 R77 R76	
0069	00001.000	EA		0972975-0060	RES FIX COMP 3.0 K OHMS 5 & 1/8 WATT	OPL -RC05G302JS
0069A					R40	
0070	00002.000	EA		0972975-0045	RES FIX COMP 680 OHMS 5 & 1/8 WATT	
0070A					R52 R53	
0071	00001.000	EA		0539370-0338	RES FIX FILM 324 OHM 1/4 .25 WATT	COB -NA55D-100PPM/C
0071A					R49	
0072	00002.000	EA		0972975-0113	X RES FIX COMP 470K OHM 5 & 1/8 W	OPL -RC05G474JS
0072A					R47 R48	
0073	00001.000	FA		0539470-0337	RES FIX FILM 316 OHM 1/4 .25 WATT	COB -NA55D-100PPM/C
0073A					R75	
0074	00002.000	EA		0972975-0073	RESISTOR 10K OHMS 1/8 W 5%	
0074A					P50 P51	
0075	00001.000	EA		0972975-0042	RES FIX COMP 510 OHMS 5 & 1/8 WATT	OPL -RC05G511JS
0075A					R57	
0076	00001.000	EA		0972188-0001	NETWORK,NES55V,MONOLITHIC TIMING,LINEAR	ST -NE555V

ASSEMBLYMAN DATE CRO DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE ASSY,M/W,TRIDENT DISK CONTROLLER,T-50  
 APPO-ING. DATE APPO PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM0947525-0001 T



Trident Disk Controller Multiwire Assembly

TEXAS INSTRUMENTS INCORPORATED LIST OF MATERIAL DATE 09/20/79 PAGE 9 of PART NUMBER LM0947525-0001 REV T

PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0076A					TM1	
0077	30001.000	EA		0972994-0001	SWITCH,ROCKER-PWB MOUNTED	023880-900124
0077A					S1	
0078	00004.000	EA		0539855-0002	RELAY, REED, DIP-250 MA 10 W 100 VDC	095348-G88314-4
0078A					UP09 UP10 UR09 UR10	
0079	00001.000	EA		0972929-0405	CAP FIX CERAMIC 4700 PF 10 & 100 V	QPL -M39014/01-1409
0079A					C33	
0080	00001.000	EA		0972927-0044	CAP FIX MICA 300V 510 PF 5 &	QPL -CM05F511JOC
0080A					C18	
0081	00005.000	EA		0972965-0024	CAP FIX CERAMIC .100 MF 10& 100V	QPL - CK068X104K
0081A					C25 C26 C27 C28 C29	
0082	00001.000	EA		0972929-0379	CAP FIX CERAMIC 100 PF 10 & 200 V	QPL -M39014/01-1379
0082A					C30	
0083	00017.000	EA		0972763-0021	CAP.,FIXED,AXIAL LEAD,.047 UF,+80&, -20&	
0083A					C1 THRU C17	
0084	00002.000	FA		0972872-0001	NETWORK,LM 320H-05 VOLTAGE REGULATOR	- -
0084A					Q2 Q3	
0085	00001.000	FA		0539480-0003	OPTOELECTRONIC DEVICE-TIL 220	
0085A					CR4	
0086	30003.000	EA		0539480-0004	OPTOELECTRONIC DEVICE VISIBLE-LIGHT(GRN) TI	-TIL222
DRAFTSMAN DATE Ckd DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE ASSY,M/W,TRIDENT DISK CONTROLLER,T-50						
APPD. MFG. DATE APPD. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM0947525-0001 T						

TEXAS INSTRUMENTS INCORPORATED LIST OF MATERIAL DATE 09/20/79 PAGE 10 of PART NUMBER LM0947525-0001 REV T

PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0086A					CR1 CR2 CR3	
0087	00002.000	EA		0972924-0005	CAP FIX TANT SOLID 4.7 MFD 10 & 10 VOLT	QPL -M39003/1-2254
0087A					C31 C32	
0088	00001.000	EA		0972927-0047	CAP FIX MICA 300V 680 PF 5 &	QPL -CM05F681JOC
0088A					C22	
0089	00002.000	EA		0972927-0039	CAP FIX MICA 500V 330 PF 5 &	QPL -CM05E331JOC
0089A					C21 C23	
0090	REF	EA		0947530-9901	SPECIFICATION, TRIDENT DISK	
0091	REF	EA		0948973-9901	UNIT TP,TRIDENT T-50/25 DISK CONT ASSY	
0092	00002.000	EA		0966486-0001	INSULATOR PWB STIFFENER	
0093	00001.000	EA		0947526-0001	BOARD;M/W, LG 990 DISK CONTROLLER I/F	
0094	00002.000	EA		0533844-0001	EJECTOR, NYLON, NON-LOCKING, PWB	
0096	30002.000	EA		0945239-0001	BRACKET-STIFFENER, PWB, 14IN	
0097	00006.000	FA		0972988-0003	SCREW 2-56 X .250 PAN HEAD CRCS	
0098	00009.000	EA		2210188-0003	SOCKET, LOW PROFILE, DIP, 16 CONT	003612-DILB16P-108
0098A					XUK07 XUM13 XUF14 XUF15	
0098B					XUM15 XUM14 XUB15 XUT06	
0099	00007.000	EA		2210188-0005	SOCKET, LOW PROFILE, DIP, 20 PINS	003612-DILB20P-108
0099A					XUJ10 XUK08 XUK09 XUK10	
0099B					XUK11 XUT05 XUT07	
DRAFTSMAN DATE Ckd DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE ASSY,M/W,TRIDENT DISK CONTROLLER,T-50						
APPD. MFG. DATE APPD. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM0947525-0001 T						

TEXAS INSTRUMENTS INCORPORATED LIST OF MATERIAL DATE 09/20/79 PAGE 11 of PART NUMBER LM0947525-0001 REV T

PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0102	30001.000	EA		0972137-0010	CONNECTOR,P.C.HFADER 50 CONTACTS	BEI - 65493-020
0102A					P1	
0103	00304.000	EA		0972706-0008	HEAD,CONNECTOR,20 CONTACT 1 AMP	MMH - 3492-1003
0103A					P2 P3 P4 P5	
0104	AR	QT		0415804-0005	SEALING COMPOUND,ANAEROBIC-BLUE GRADE C	
0105	AR	TU		0415804-0011	SURFACE PRIMER,COMPOUND GRADE T YELLOW	
0108	00002.000	EA		0232583-0025	TO-5 MOUNTING PAD,4-LEADS,TEFLON	-SEE TI DWG
0109	00002.000	EA		0972713-0001	PLUG, JUMPER, I.C., 0.300 INCH	
0109A					J1 J2	
0110	00001.000	EA		0947581-0015	CONTROL ROM NO 18,TRIDENT (T25/50)	
0110A					UK08	
0111	00001.000	EA		0947581-0020	CONTROL ROM NO 58,TRIDENT (T25/50)	
0111A					UJ10	
0112	00003.000	EA		0972975-0025	RES FIX COMP 100 OHMS 5& 1/8 WATT	QPL - RC05G101JS
0112A					R54 R55 R56	
0113	00001.000	EA		0947581-0016	CONTROL ROM NO 28,TRIDENT (T25/50)	
0113A					UK09	
0114	00001.000	EA		0947581-0017	CONTROL ROM NO 38,TRIDENT (T25/50)	
0114A					UK10	
0115	00001.000	EA		0947581-0023	CONTROL ROM NO 48,TRIDENT (T-50)	
DRAFTSMAN DATE Ckd DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE ASSY,M/W,TRIDENT DISK CONTROLLER,T-50						
APPD. MFG. DATE APPD. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM0947525-0001 T						

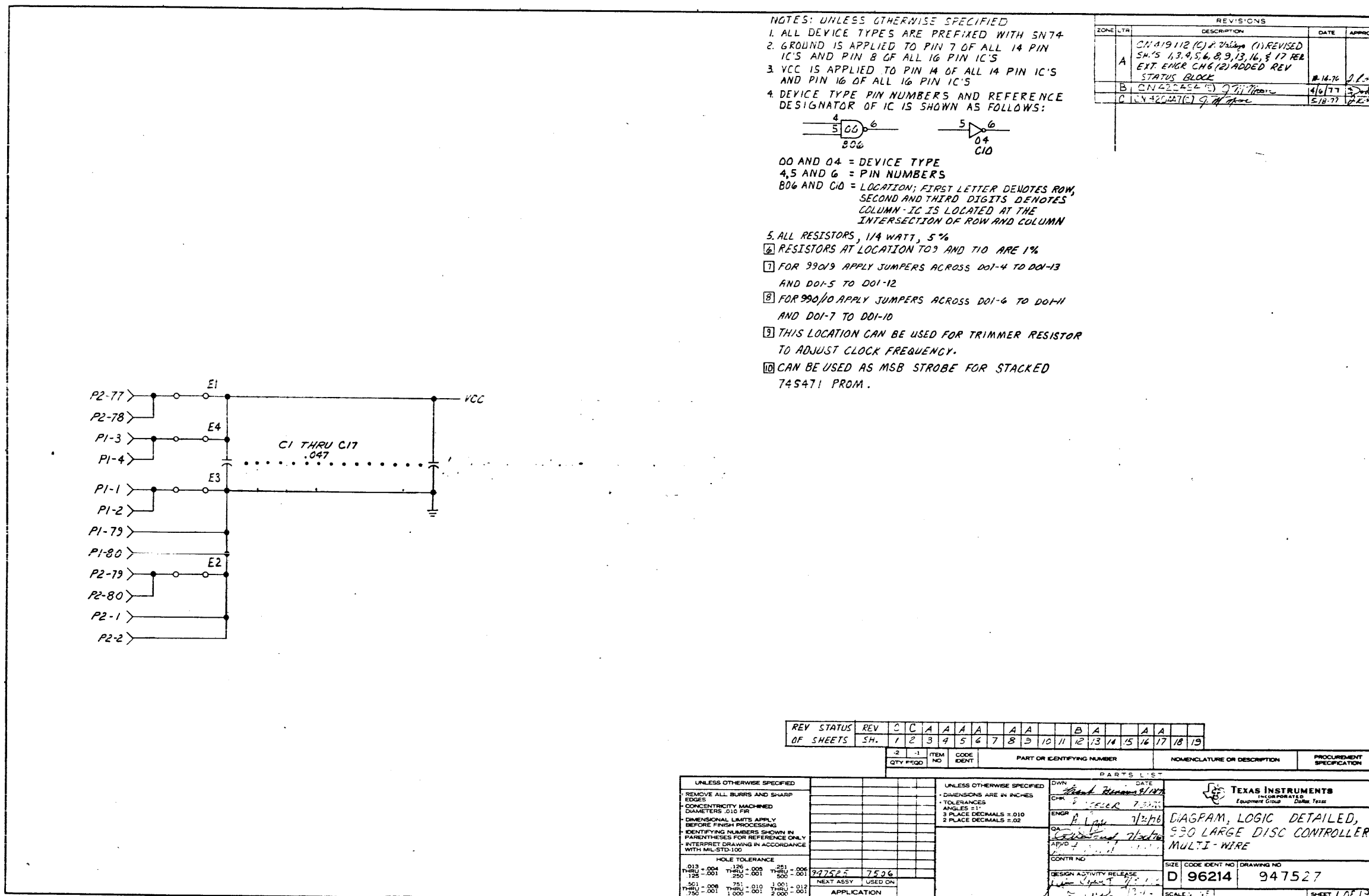
TEXAS INSTRUMENTS INCORPORATED LIST OF MATERIAL DATE 09/20/79 PAGE 12 of PART NUMBER LM0947525-0001 REV T

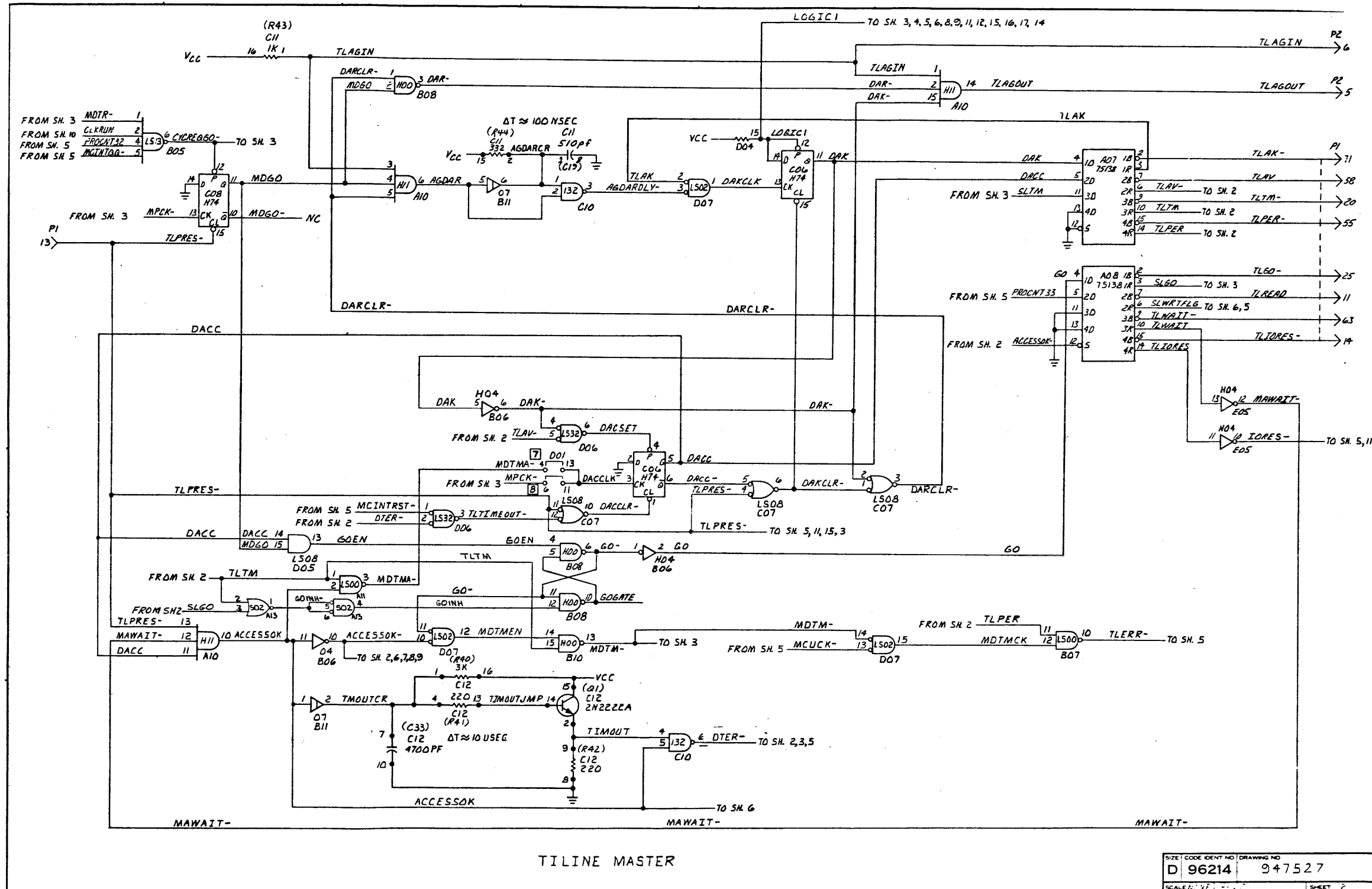
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0115A					UK11	
0116	00002.000	FA		0972784-0002	NETWORK SN74LS14N	
0116A					US03 UC04	
0117	00001.000	EA		0972929-0400	CAP,FIXED CERAMIC,.0015UF 10& 100V	
0117A					C20	
0118	00001.000	EA		0972979-0385	CAP FIX CERAMIC 220 PF 10& 200V	SEE - TI DRAWING
0118A					C24	
0119	30001.000	EA		2210188-0001	SOCKET, LOW PROFILE, DIP, 3 CONT, 8 PINS	003612-DILB8P-108
0119A					UB14	
0120	REF	EA		0947527-9901	LOGIC DIAGRAM,990 LARGE DISK CONT, M/W	
0121	30002.000	FT		2210083-0003	WIRE,ELEFC,COND U/L STYLE 1213,24 AWG	090484-MTE24A
0122	30001.000	EA		0972212-0016	SOCKET, IC 16 PIN DUAL-IN-LINE	AUGAT -516-AG-10
0122A					XU001	
0123	00001.000	FA		0800392-0002	PLUG,ADAPTOR,COMPONENT	616-CG-1
0123A					XUT06	
0124	00001.000	EA		0219402-7402	NETWORK SN74S02N	TI -SN74S02N
0124A					UA13	
0125	00001.000	EA		0947581-0024	CONTROL ROM NO 48,TRIDENT (T-25)	
0125A					UT05	
0126	00001.000	EA		0947581-0025	CONTROL ROM NO.4,TRIDENT (T-200)	
DRAFTSMAN DATE Ckd DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE ASSY,M/W,TRIDENT DISK CONTROLLER,T-50						
APPD. MFG. DATE APPD. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM0947525-0001 T						

TEXAS INSTRUMENTS INCORPORATED		DATE 09/20/79		LIST OF MATERIAL		PAGE 13 of		PART NUMBER LM0947525-0001		REV T		
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0126A					UT07							
0127	00001.090	EA		0972929-0400	CAP, FIXED CERAMIC, .0015UF 10% 100V							
0127A					C19							
DRAFTSMAN		DATE	CRD. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE ASSY, M/W, TRIDENT DISK CONTROLLER, T-50					
APPRO. ENG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM0947525-0001		REV T		

TEXAS INSTRUMENTS INCORPORATED		DATE 09/20/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0947525-0002		REV T		
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0201	00001.000	EA		0947525-0001	ASSY, M/W, TRIDENT DISK CONTROLLER, T-50							
0202	REF	EA		0938141-9901	MOD PROCEDURE, T-50 DISK I/F TO T-25/T-50							
DRAFTSMAN		DATE	CRD. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE ASSY, M/W, TRIDENT DISK CONTROLLER, T-25					
APPRO. ENG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM0947525-0002		REV T		

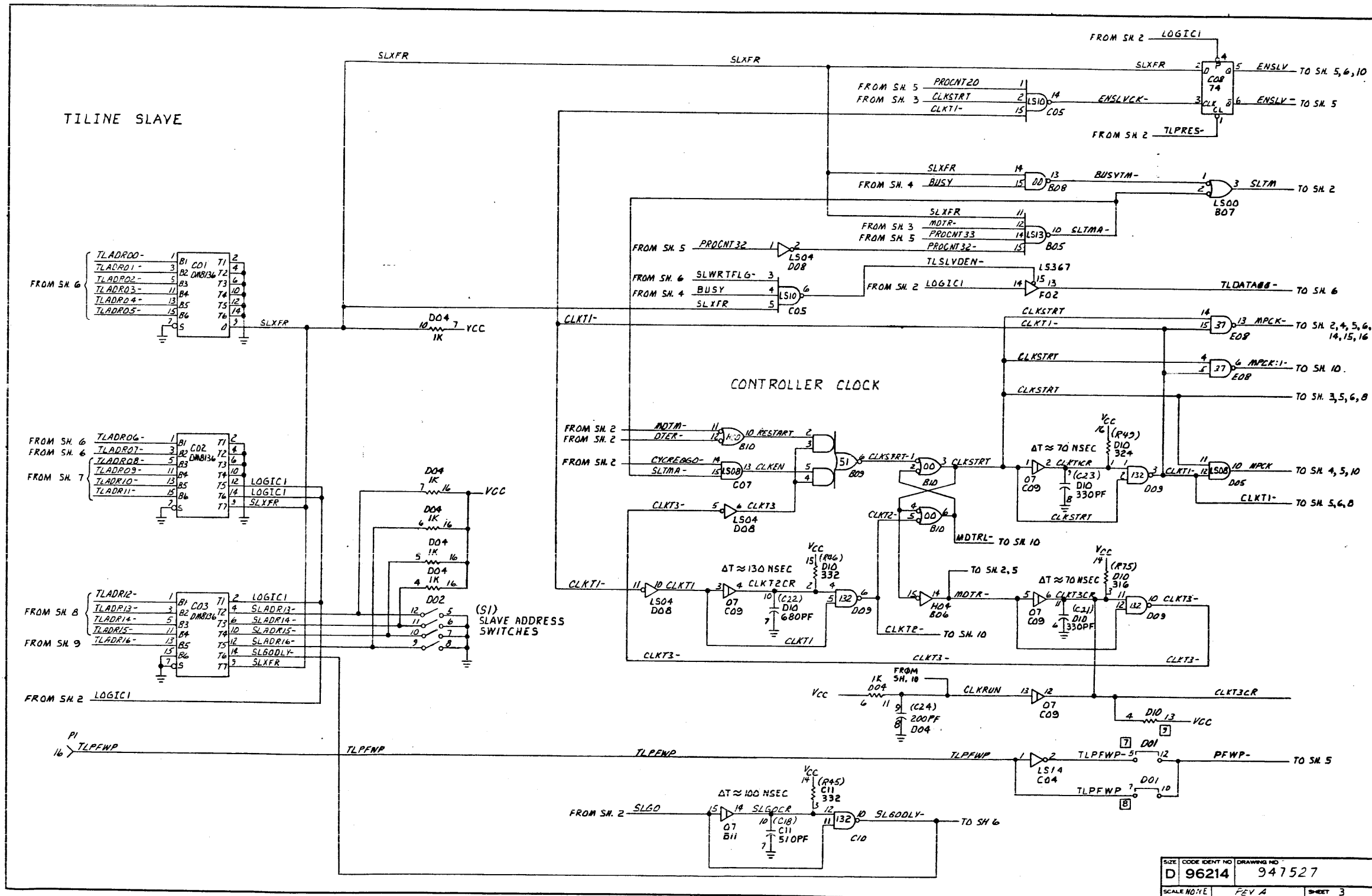
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ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0201	00001.000	EA		0947525-0001	ASSY, M/W, TRIDENT DISK CONTROLLER, T-50							
0202	REF	EA		0938141-9901	MOD PROCEDURE, T-50 DISK I/F TO T-25/T-50							
DRAFTSMAN		DATE	CRD. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE ASSY, M/W, TRIDENT DISK CONTROLLER, T-200					
APPRO. ENG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM0947525-0003		REV T		

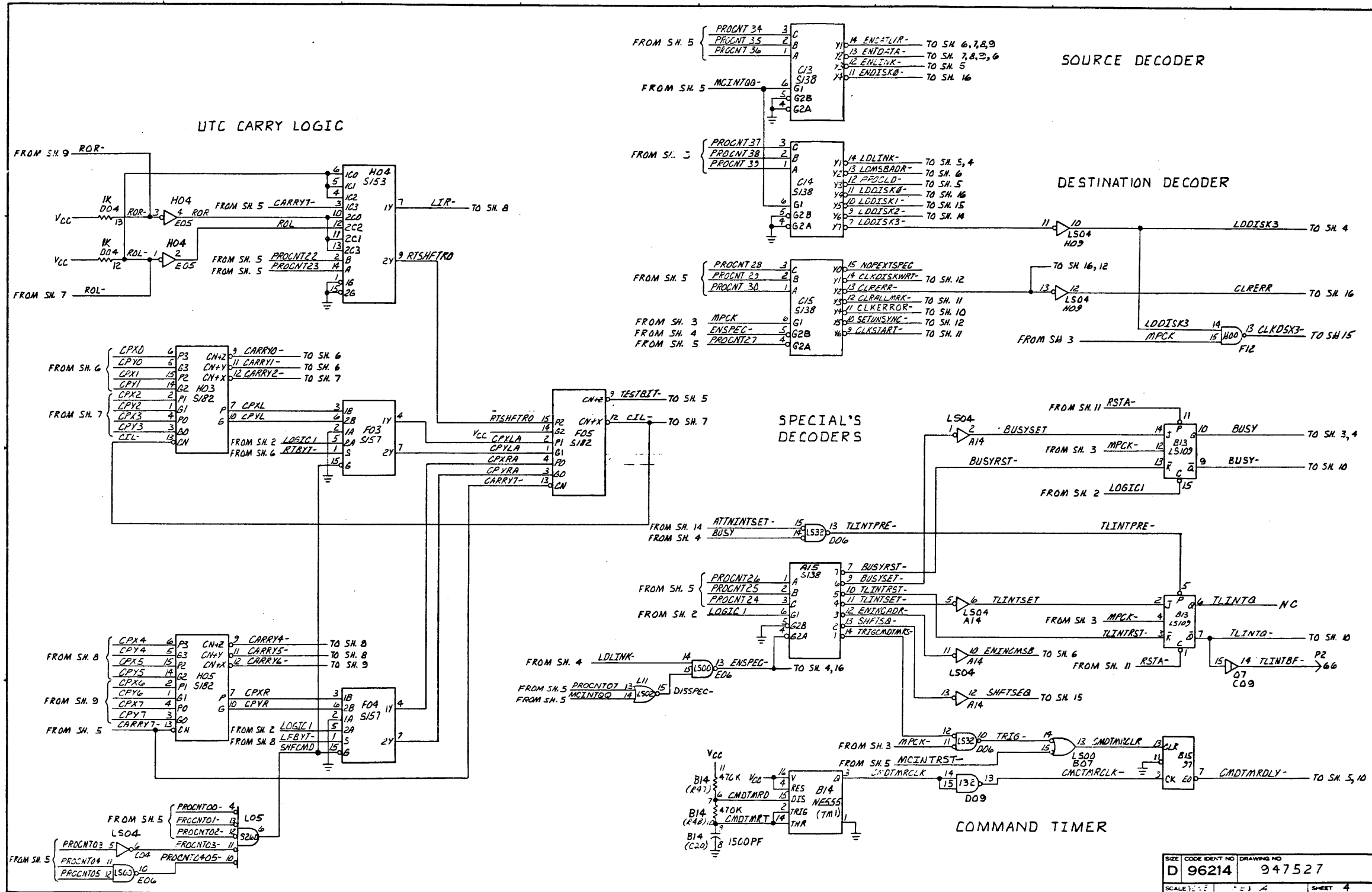




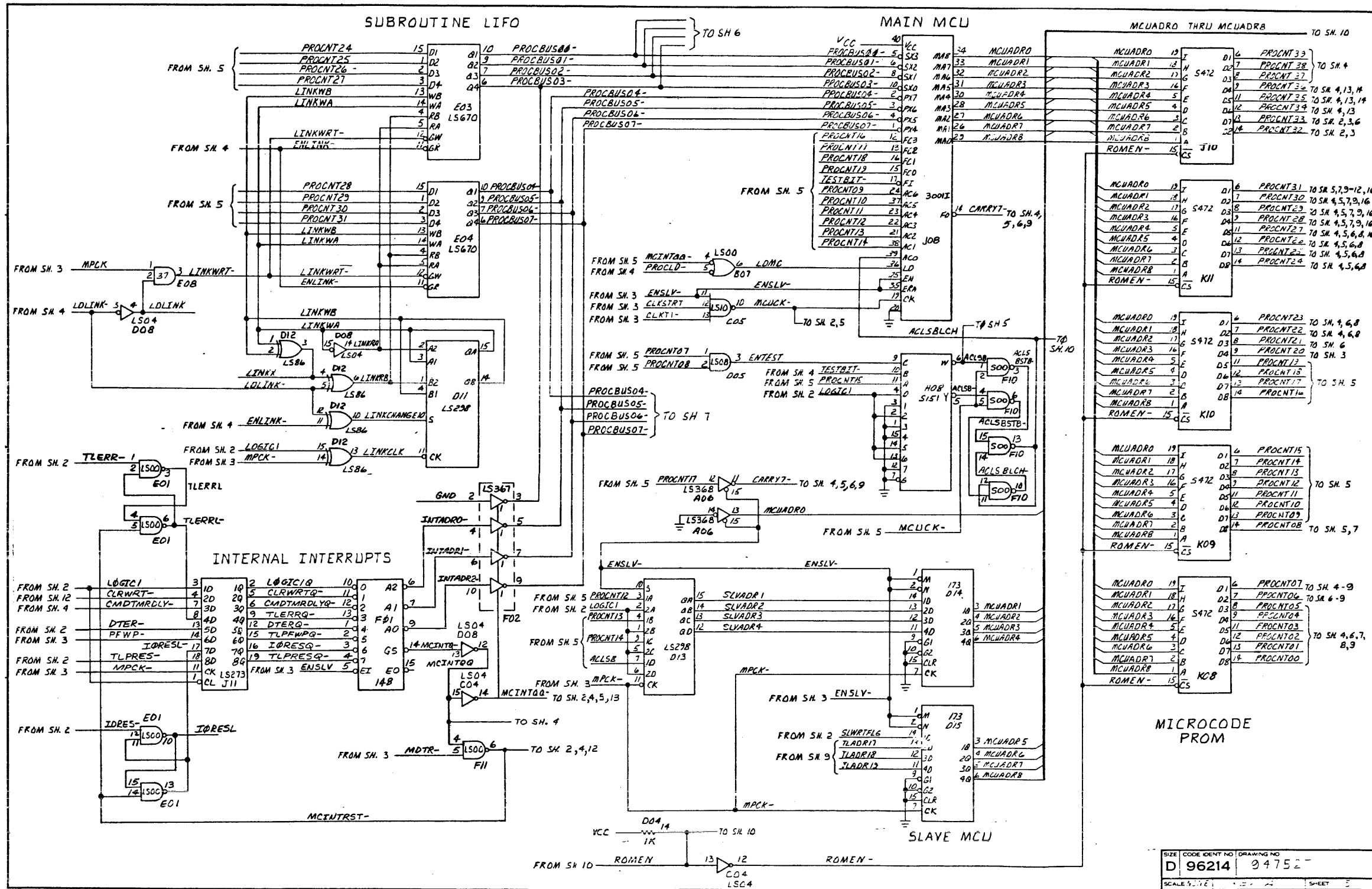
TILINE MASTER

SIZE	CODE	IDENT NO	DRAWING NO
D	96214	947527	947527
SCALE	1:1	SHEET	2





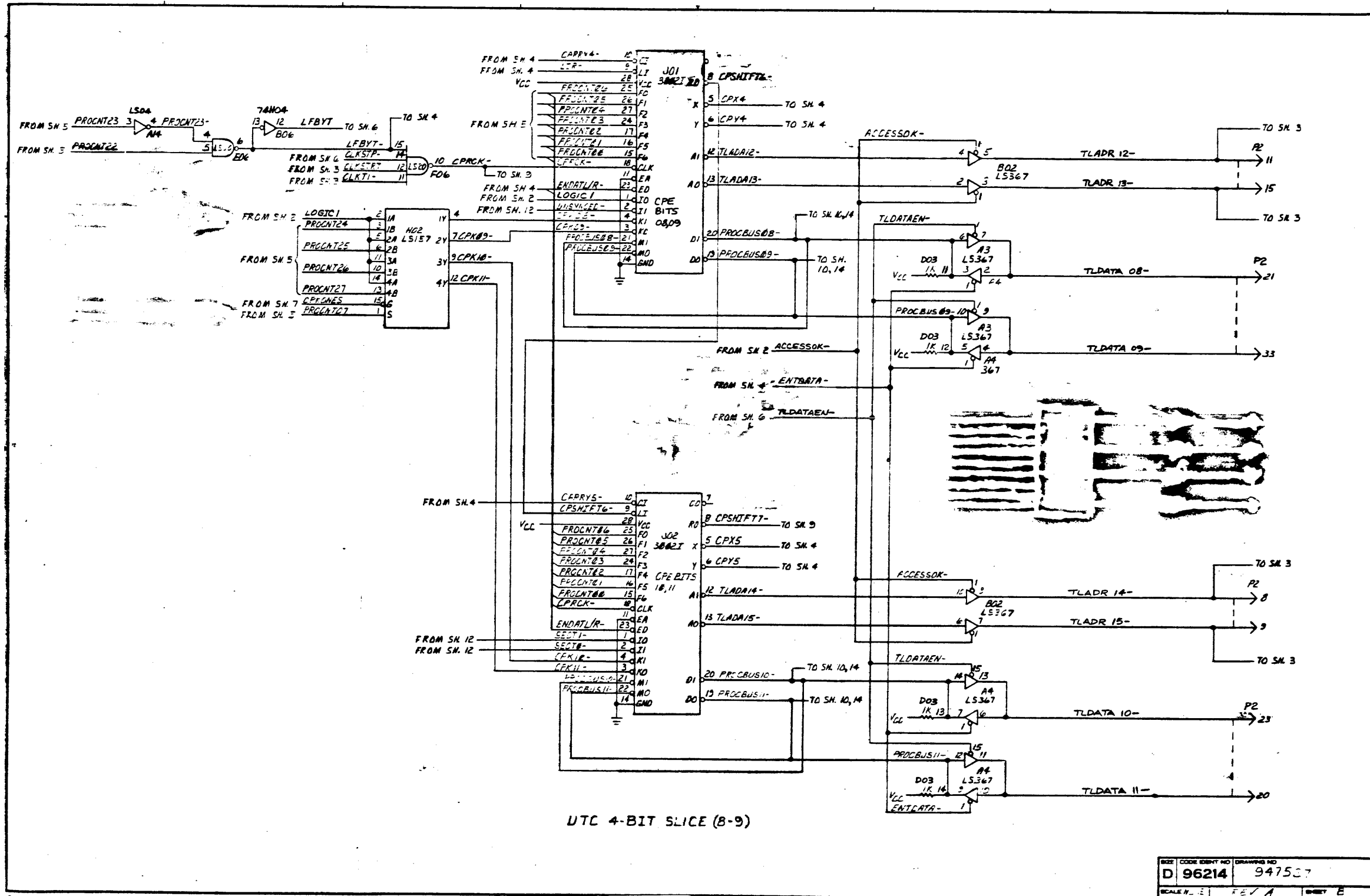
SIZE	CODE IDENT NO	DRAWING NO
D	96214	947527
SCALE	1:1	SHEET 4

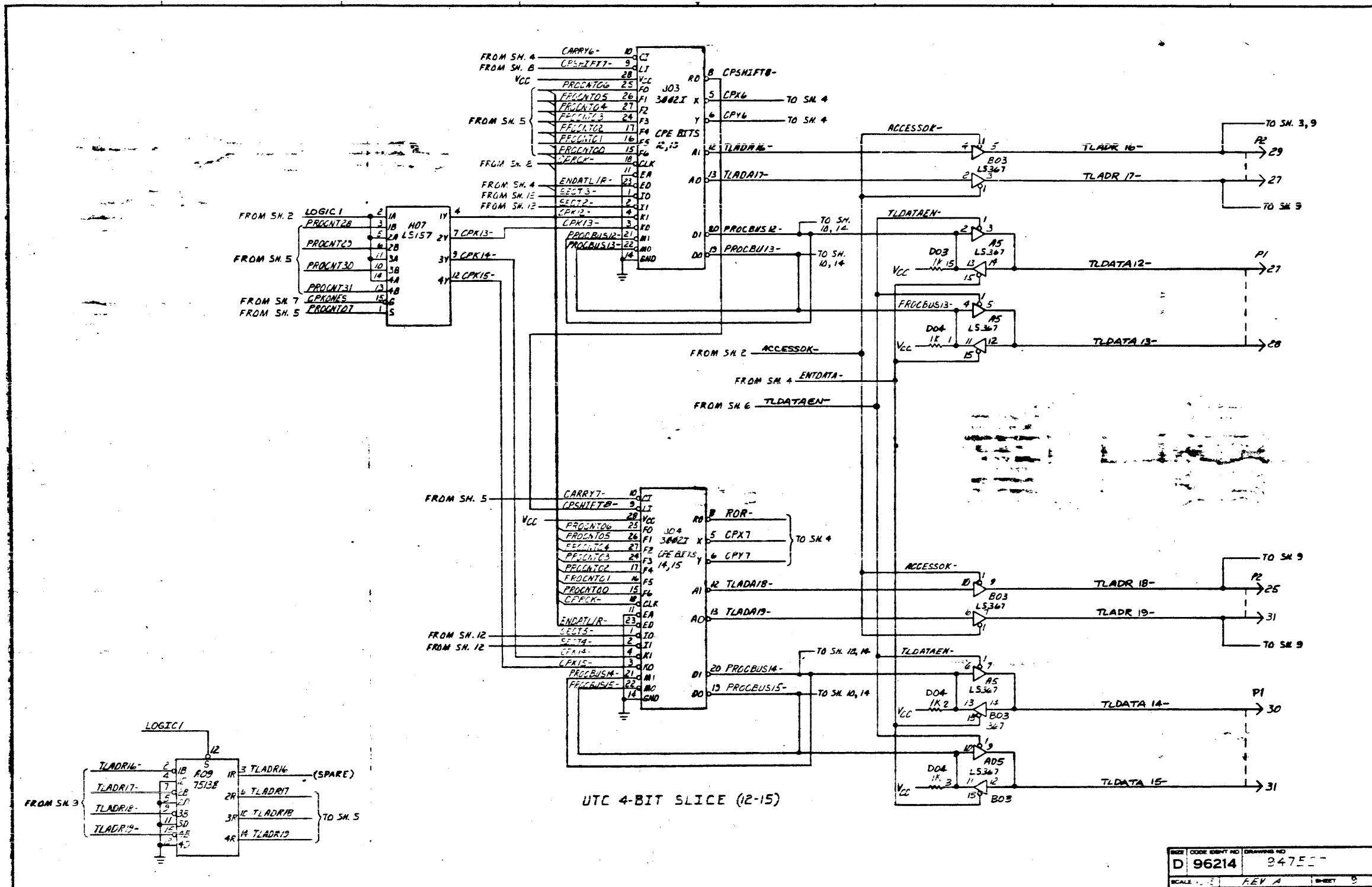




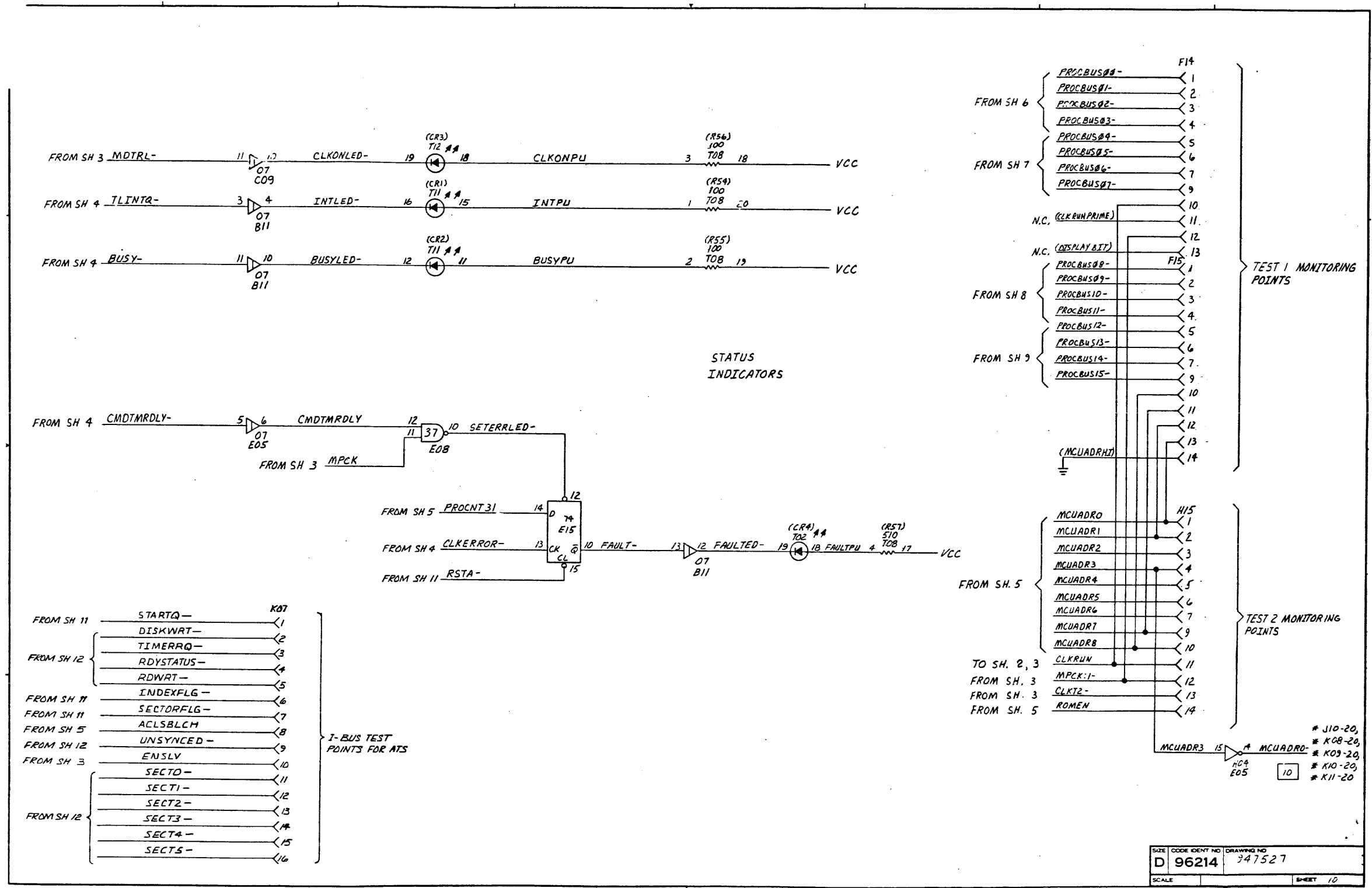


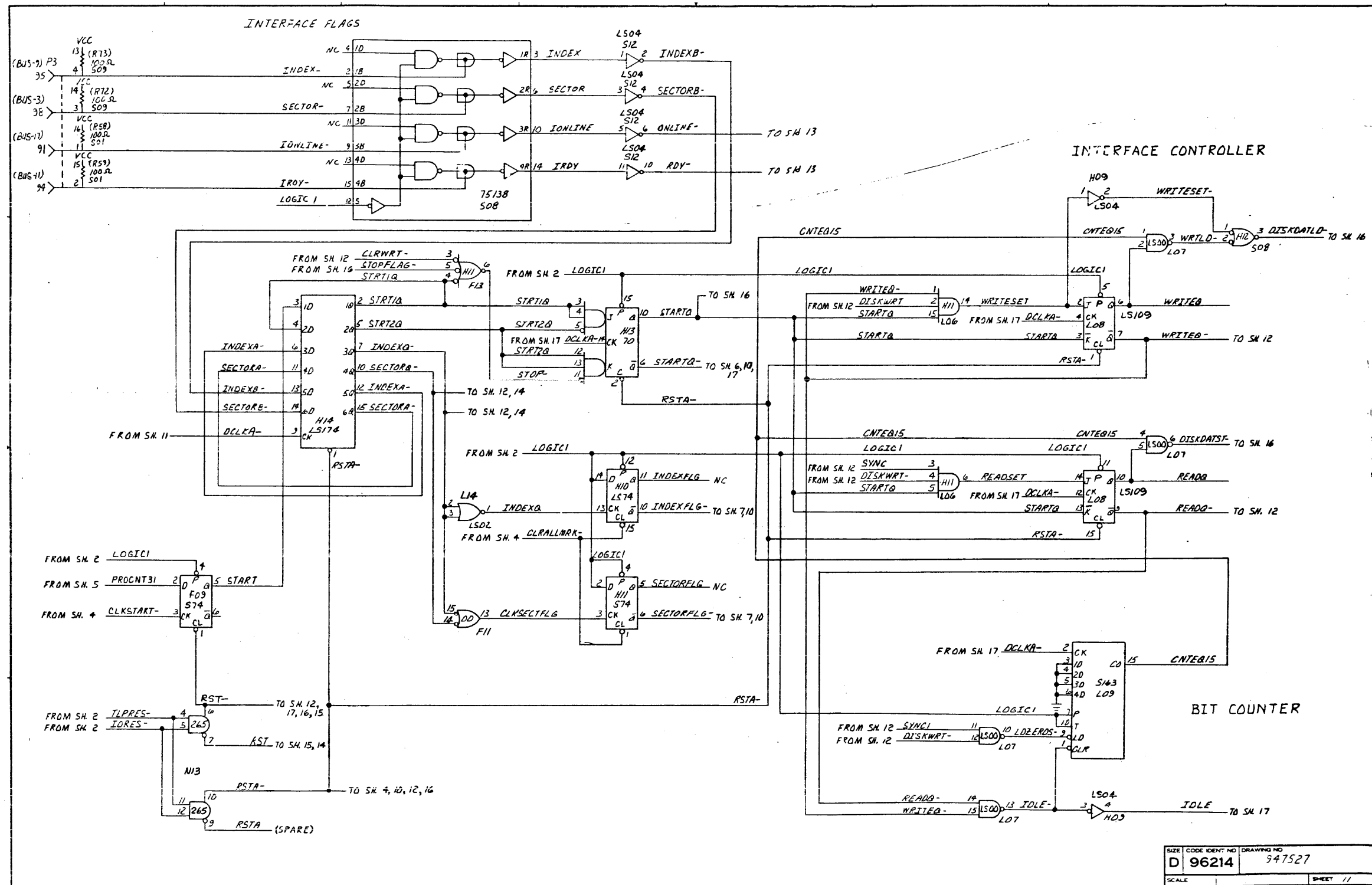




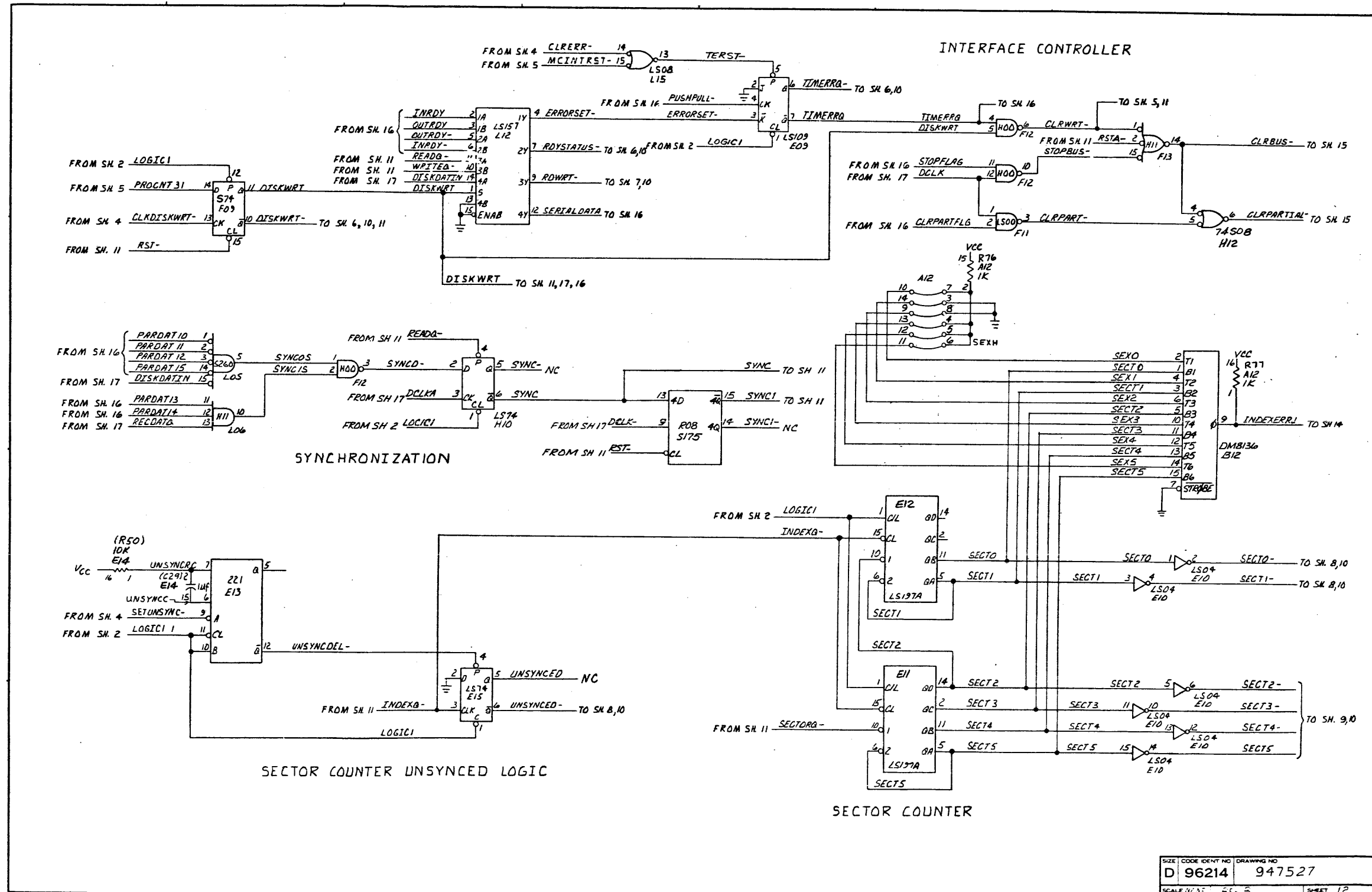


SIZE	CODE IDENT NO	DRAWING NO
D	96214	24750
SCALE	REV	SHEET
	A	5

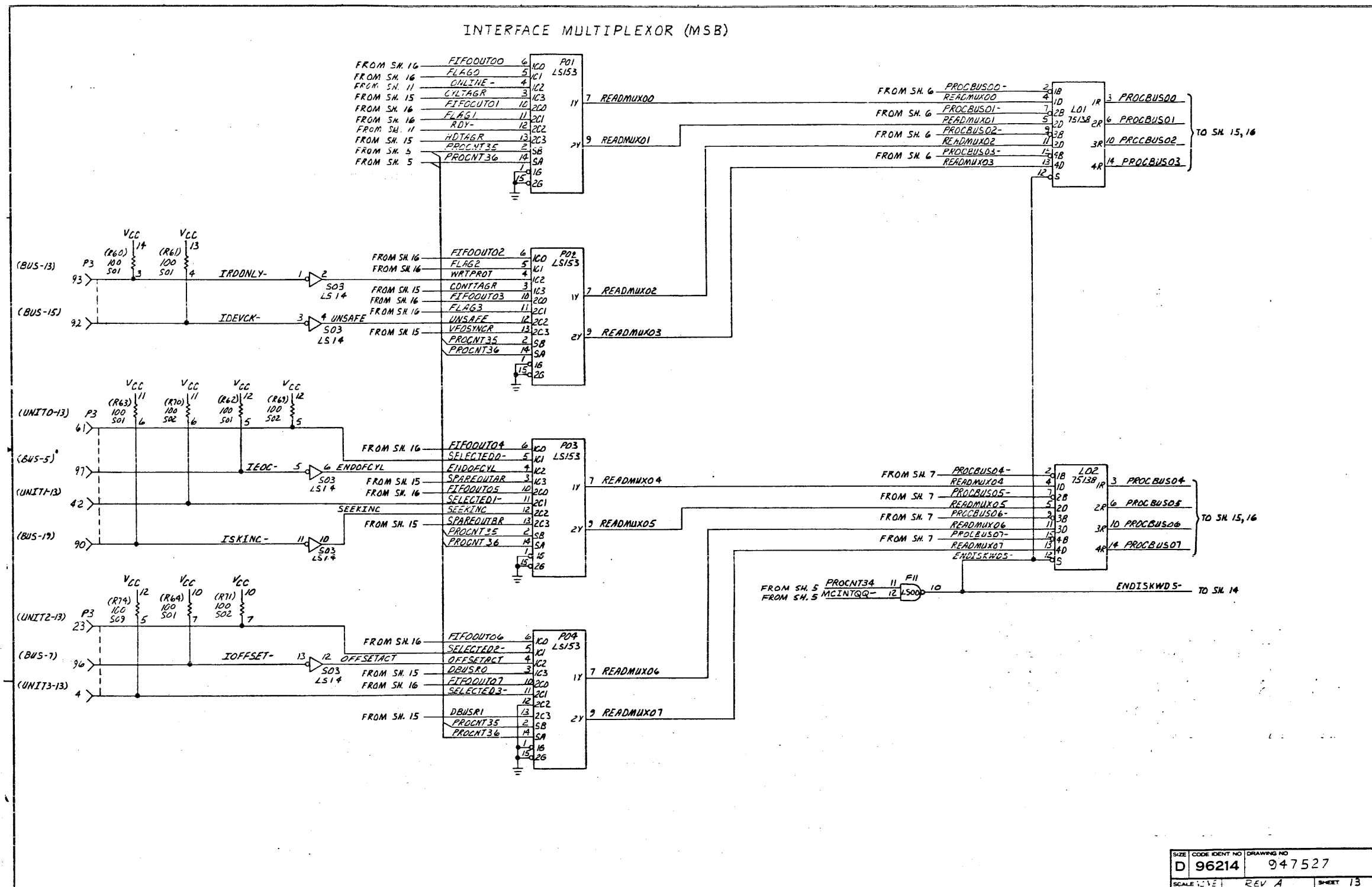




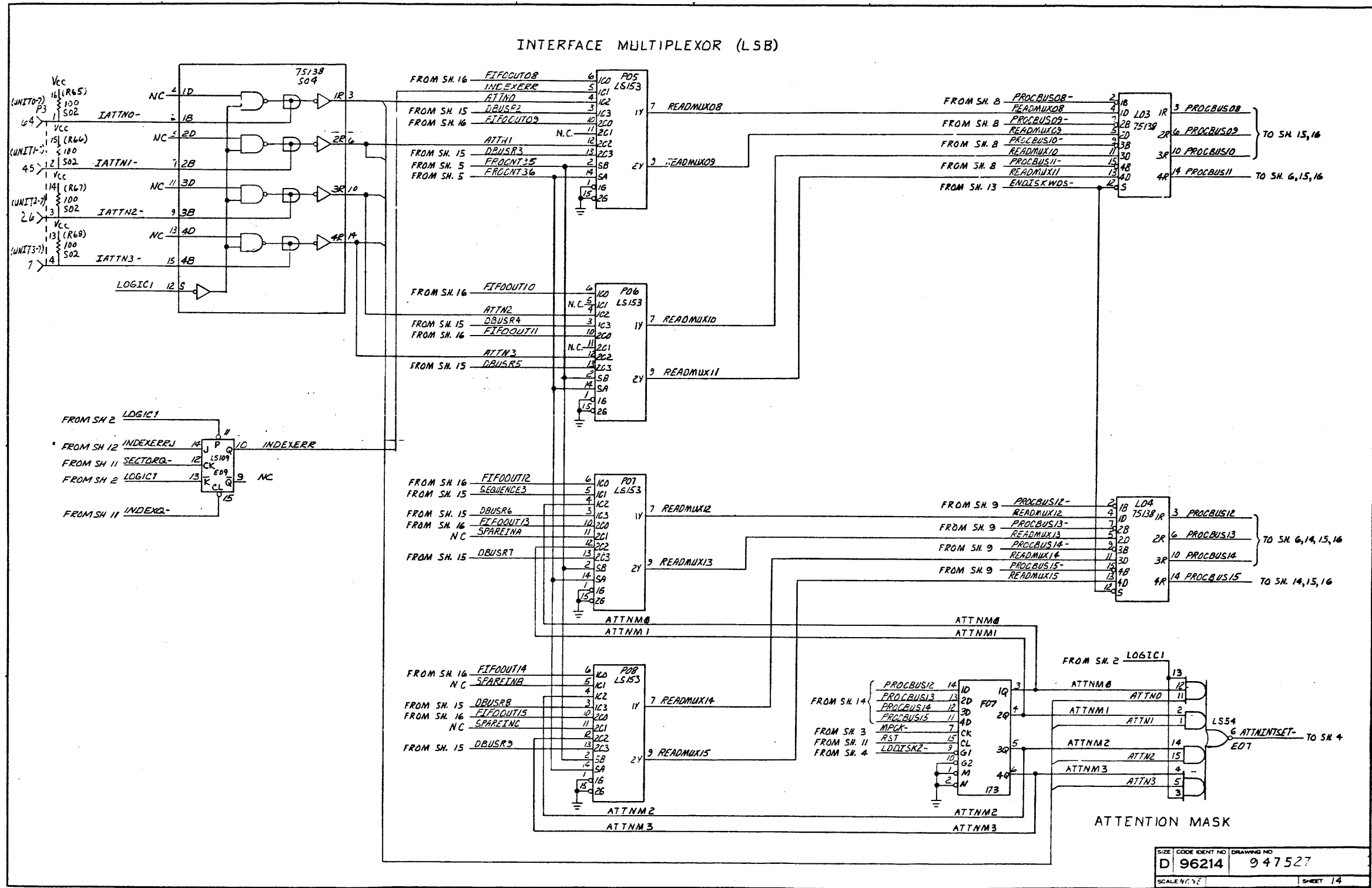
SIZE	CODE IDENT NO	DRAWING NO
D	96214	947527
SCALE		SHEET 11



SIZE	CODE IDENT NO	DRAWING NO
D	96214	947527
SCALE	NONE	SHEET 12

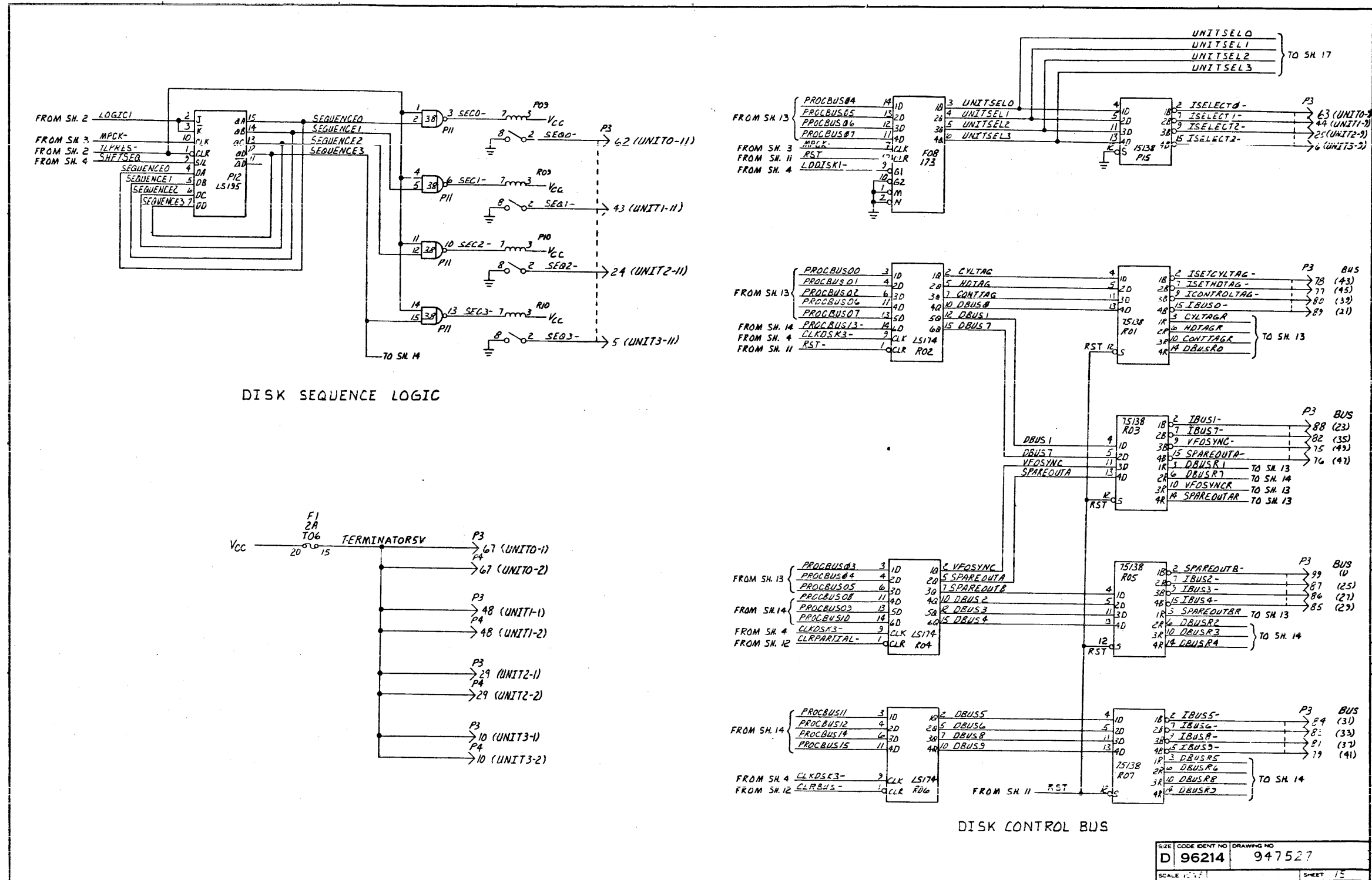


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D	96214	947527
SCALE	REV	SHEET
1:1	A	13

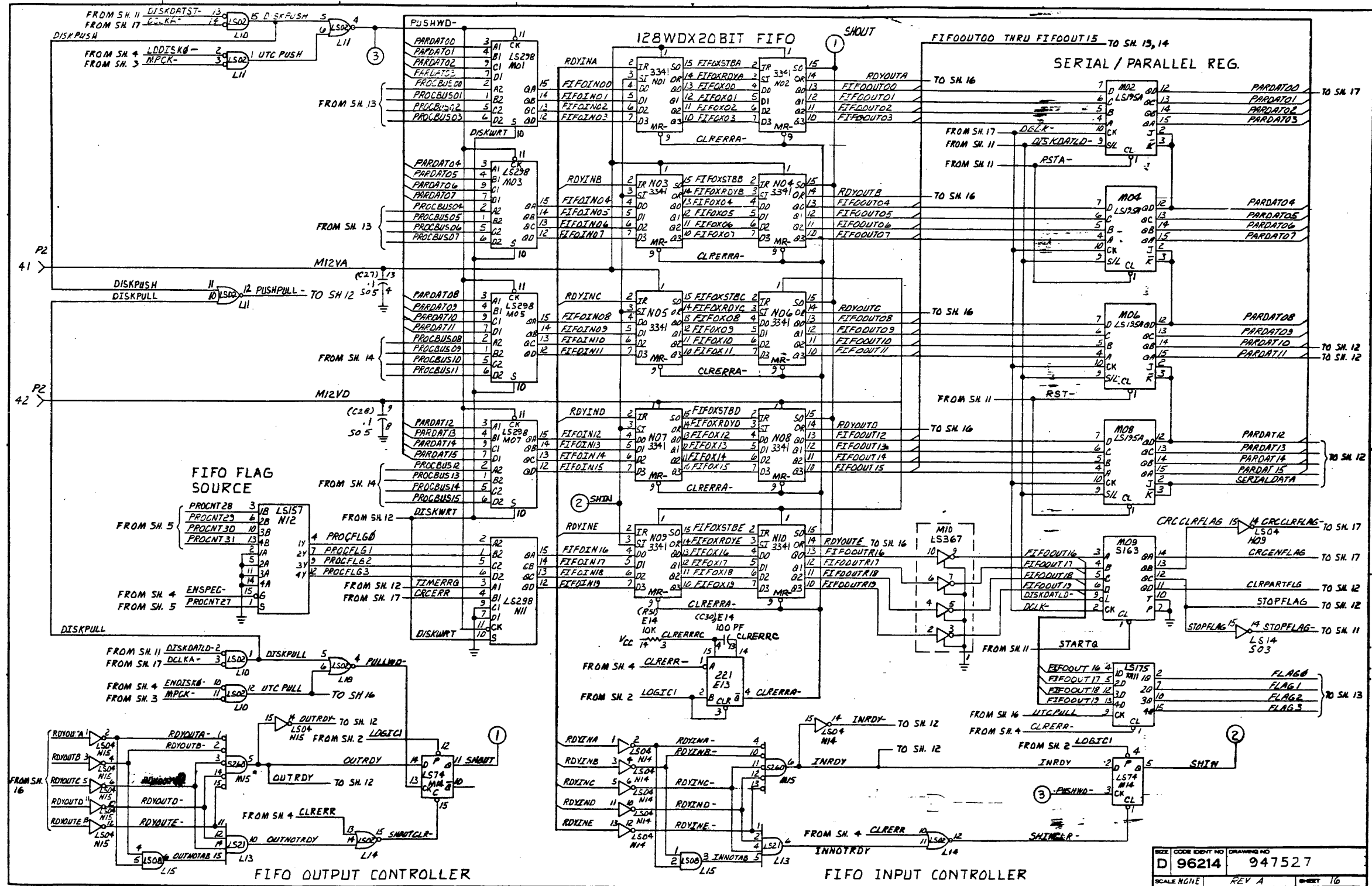


SIZE	CODE IDENT NO	DRAWING NO
D	96214	947527
SCALE	NONE	SHEET 14

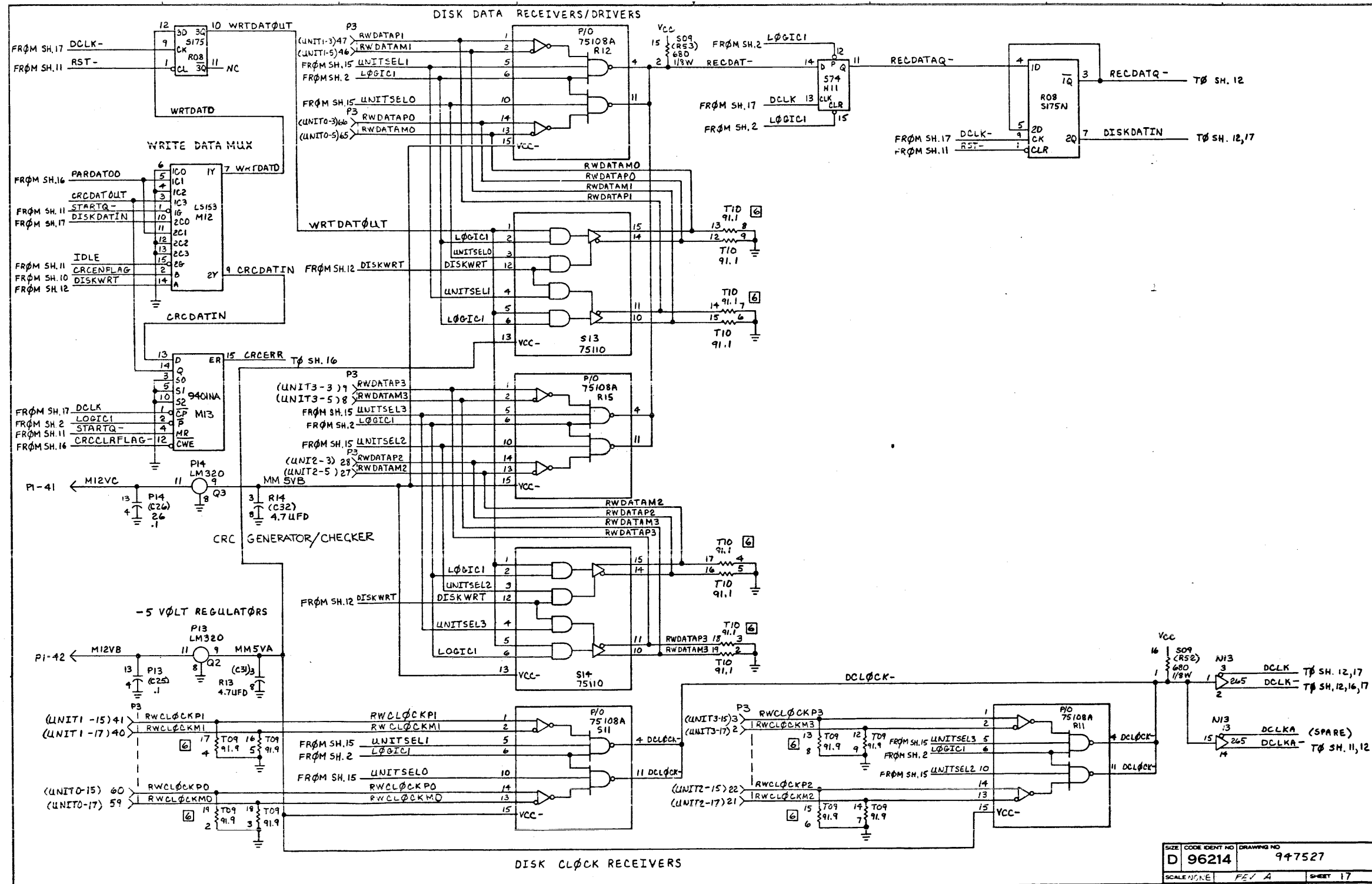




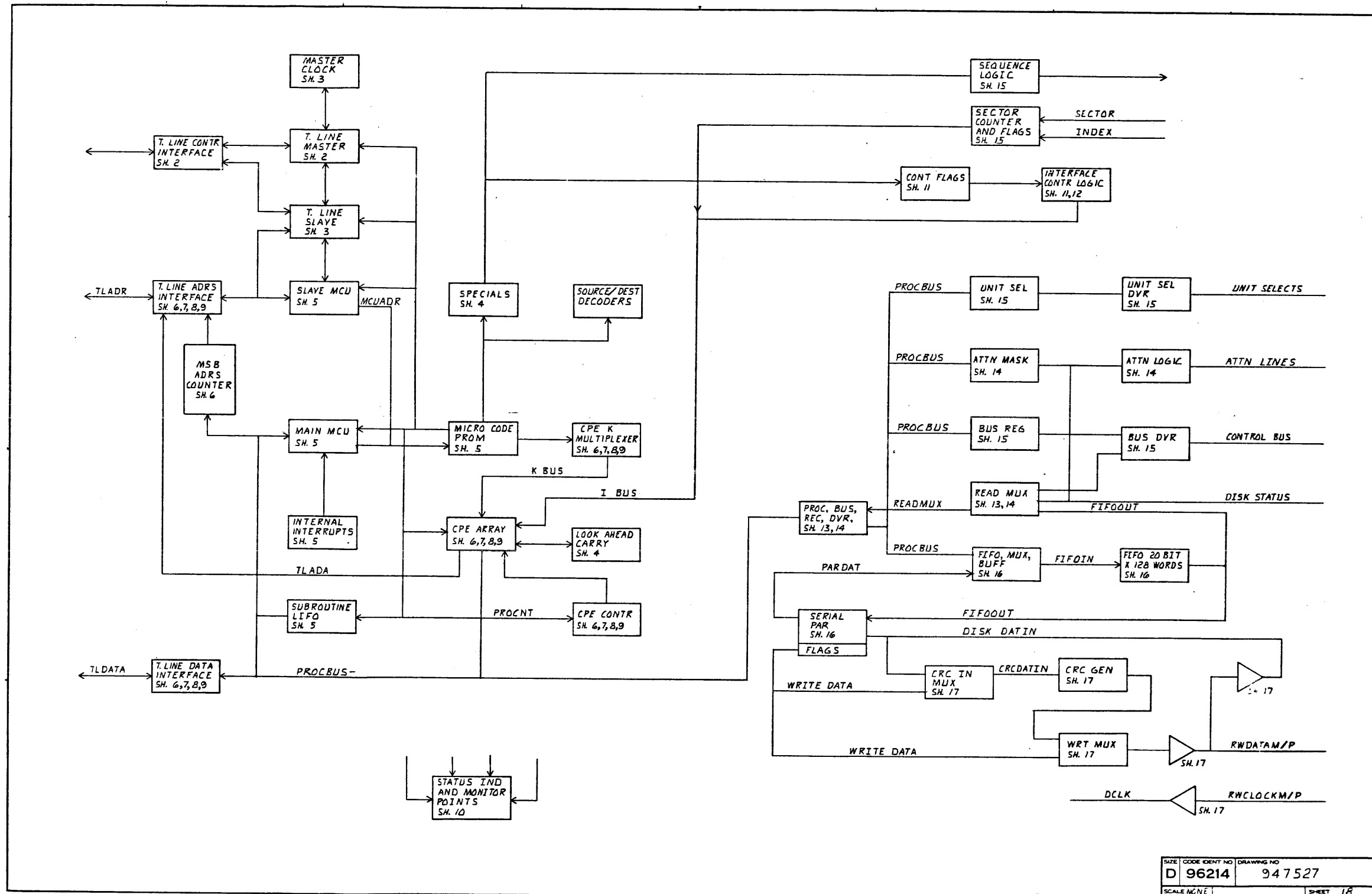
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D	96214	947527
SCALE 1:1	SHEET 15	



SIZE	CODE IDENT NO	DRAWING NO
D	96214	947527
SCALE NGINE	REV A	SHEET 16



SIZE	CODE	IDENT NO	DRAWING NO
D	96214		947527
SCALE	NONE	FEL A	SHEET 17



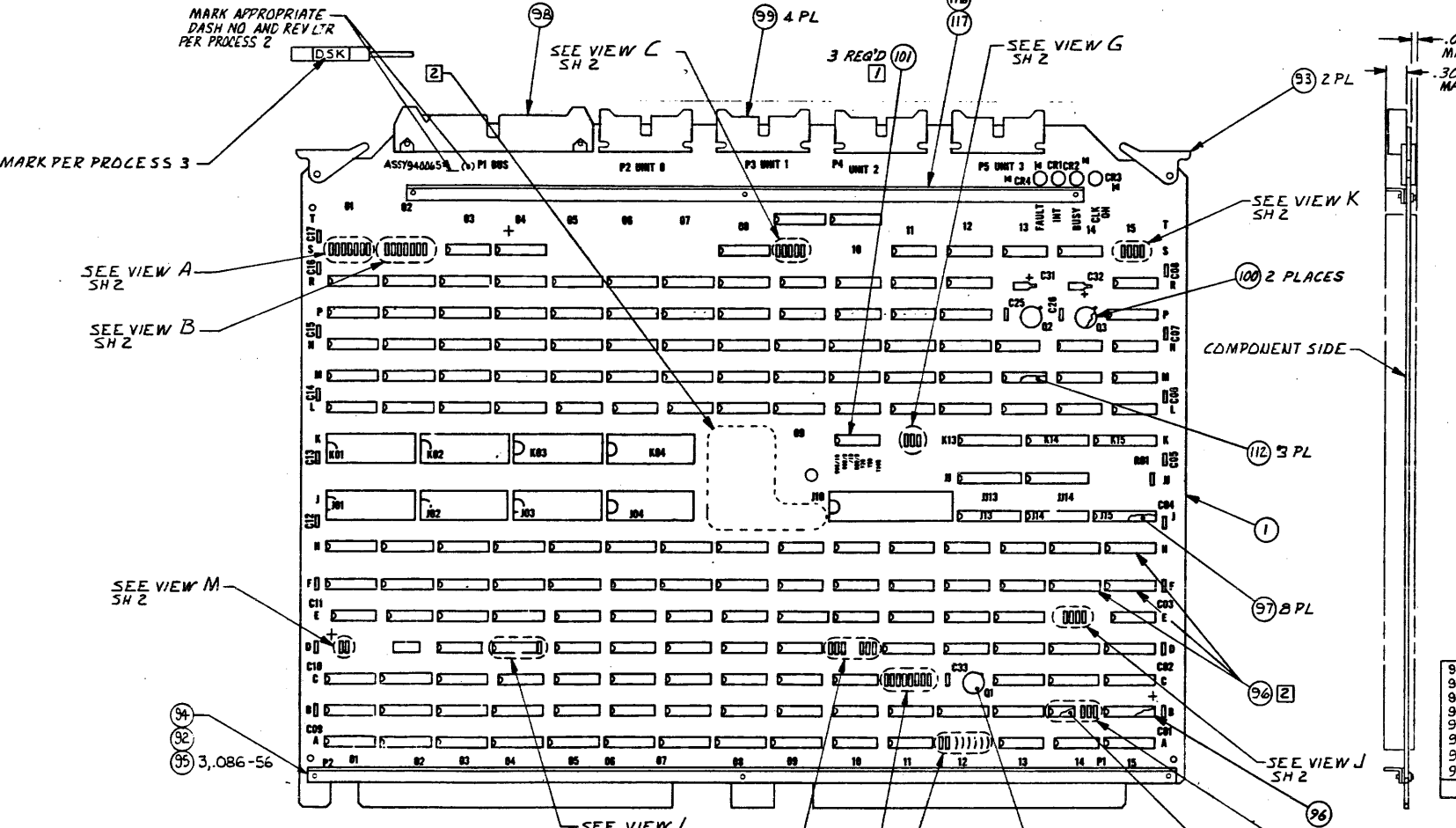
SIZE	CODE IDENT NO	DRAWING NO
D	96214	947527
SCALE	NONE	SHEET 18



NOTES: UNLESS OTHERWISE SPECIFIED:  
 1 REFER TO TABLE BELOW FOR POSITION OF JUMPER PLUGS IN SOCKET AT LOCATION K-10. FOR USE IN 99C-9 COMPUTERS MOVE JUMPER J1 FROM PIN 1 TO PIN 14 TO PIN 2 TO PIN 13 AND J2 FROM PIN 3 TO PIN 12 TO PIN 4 TO PIN 11

CTRL TYPN	DISK DRIVE	J1	J2	J3
940065-0001	T-50	PIN 1 TO PIN 14	PIN 3 TO PIN 12	PIN 6 TO PIN 9
940065-0002	T-25	PIN 1 TO PIN 14	PIN 3 TO PIN 12	PIN 5 TO PIN 10
940065-0003	T-200	PIN 1 TO PIN 14	PIN 3 TO PIN 12	PIN 7 TO PIN 8
940065-0004	T-50	PIN 1 TO PIN 14	PIN 3 TO PIN 12	PIN 6 TO PIN 9
940065-0005	T-25	PIN 1 TO PIN 14	PIN 3 TO PIN 12	PIN 5 TO PIN 10
940065-0006	T-200	PIN 1 TO PIN 14	PIN 3 TO PIN 12	PIN 7 TO PIN 8

NOTES: CONTINUED  
 2 THE FOLLOWING LOCATIONS ARE SPARE SOCKETS J8, J9, K8, AND J9. THE FOLLOWING LOCATIONS ARE TEST SOCKETS F14, F15 AND H15. PIN 1 OF ALL LOCATIONS (SQUARE PAD) ARE LOWER LEFT AS VIEWED  
 (NOTES CONTINUED SH 2)



REV LEVEL (CONT)	DESCRIPTION	D	D	D	D	D	D	D	D
PRINTED WIRING BOARD (FR) 2262111-0001		D	D	D	D	D	D	D	D
TEST PROCEDURE 940068-9901		*	*	*	*	*	*	*	*
LOGIC DIAGRAM 940067-9901		B	C	C	C	D	D	D	D
PRINTED WIRING BOARD (FL) 940066-0001		D	D	D	D	D	D	D	D
ASSEMBLY 940065		K	L	M	N	P	R		
PRINTED WIRING BOARD (FL) 2262111-0001		*	*	*	*	*	*	*	D
TEST PROCEDURE 940068-9901		*	*	*	*	*	*	*	*
LOGIC DIAGRAM 940067-9901		*	A	B	B	B	B	B	B
PRINTED WIRING BOARD 940066-0001		*	A	A	A	B	B	B	D
ASSEMBLY 940065		*	A	B	C	D	E	F	H

PROCESSES:  
 1. SOLDER PER F-127, METHOD I AUD/DR F-124, METHOD 2  
 2. MARK PER F-100, METHOD II, CLASS I, HEIGHT .12, COLOR BLACK  
 3. MARK PER F-100, METHOD III, CLASS 12, COLOR BLACK, TYPE 4

SEQ NO	IDENT	F-SPEC	NO	ADDITIONAL	NOTES
PROCESS				CLASSIFICATION	

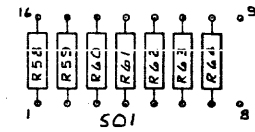
REV STATUS OF SHEETS	REV	R	R
	1	2	

QTY	ITEM NO	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION	NOTES
	947680				
	939180				
	647511	7506			

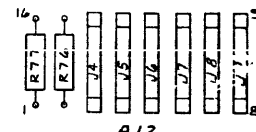
REVISIONS				
REV	DESCRIPTION	DATE	APPROVED	
A	CN 428304 (C) M... (1) UPDATED REV LEVEL BLOCK (2) NOTE 3-B WAS ON UEO2 RAISE PIN 11 AND JUMPER WIRE FROM UEO2-11 TO UEO2-1	2-24-78	J. Webb	
B	CN 428331 (C) M... (1) ITEM 66 WAS 80018-0008 (2) UPDATED REV LEVEL BLOCK	4-3-78	A.R. Webb	
C	CN 446675 (C) R. G... (1) UPDATED REV LEVEL BLOCK (2) DELETED ITEM 64 FROM LM + F/D (3) ADDED FLAG NOTE 4 (4) ADDED BALLOON FOR ITEM 63 + FLAG 4	12-6-78	H. Webb	
D	CN 441716 (C) S... (1) CREATED -5001 LM (2) ADDED ITEM 118 TO -5001 LM (3) UPDATED REV LEVEL BLOCK	3-21-79	A.R. Webb	
E	CN 451933 (D) R... (1) UPDATED REV LEVEL BLK	3-21-79	A.R. Webb	
F	CN 451937 (D) S... (1) UPDATED REV LEVEL BLK (2) ON -11M ITEM 92 WAS 966486-0001	4-20-79	A.R. Webb	
G	CN 441736 (C) S... (1) -5001 LM ITEM 53 WAS 972900-7195 (2) UPDATED REV LEVEL BLOCK	4-20-79	A.R. Webb	
H	CN 435521 (C) S... (1) ADDED NOTE 6 (2) UPDATED REV LEVEL BLOCK	9-7-79	E. Webb	
J	CN 432200 (C) M... (1) CREATED -0004 -0005 -0006 -5004 LMS (2) ADDED -0004 -0005 -0006 TO NOTE 1 (3) ADDED PWS (FL) 226211-0001 TO REV LEVEL BLK (4) UPDATED REV LEVEL BLOCK	10-16-79	A.R. Webb	
K	CN 433572 (C) S... (1) ON -0001 -0004 LMS ITEM 107 PU WAS 947581 -0013, ITEM 114 WAS 947581-0013 & ITEM 115 WAS 947581-0022 (2) UPDATED REV LEVEL BLOCK	10-16-79	A.R. Webb	
L	CN 433572 (C) S... (1) ON -0001 LM QUANTITY OF ITEM 82 WAS 2 (2) QUANTITY OF ITEM 103 WAS 1 (2) ADDED NOTE 7 (3) UPDATED REV LEVEL BLOCK	10-16-79	A.R. Webb	
M	CN 456179 (C) G... (1) CHANGED PIC-TORIAL ON ITEM 95 (2) -0004 ITEM 82 WAS QTY 2 (3) UPDATED REV LEVEL BLK (4) ITEM 109 IN -0004 LM QTY WAS 1	1-9-80	A.R. Webb	
N	CN 461347 (C) G... (1) -0001 LM ITEM 73 PU WAS 539370-0338 (2) ADDED NOTE 8 TO -0001 LM ITEM 96 WAS 539544-0002 (3) -0001 LM ITEM 97 WAS 539544-0001 (4) -0001 LM ITEM 112 WAS 539544-0002 (5) -0001 LM ITEM 112 WAS 539544-0002 (6) UPDATED REV LEVEL BLOCK	1-9-80	A.R. Webb	
P	CN 437950 (C) R... (1) -0004 LM ITEMS 96, 97, 111 AND 112 WAS PN 539544-0002, 539544-0001, 539544-0006, 539544-0001 RES(P2) UPDATED REV LEVEL BLOCK	2-28-80	A.R. Webb	

PART NO	DESCRIPTION	
940065-5004	AUTO INSERTED PARTS LIST FOR 940065-0004	5
940065-0006	TRIDENT DISK CONTROLLER, T-200 (FL)	
940065-0005	TRIDENT DISK CONTROLLER, T-25 (FL)	
940065-0004	TRIDENT DISK CONTROLLER, T-50 (FL)	
940065-5001	AUTO INSERTED PARTS LIST FOR 940065-0001	5
940065-0003	TRIDENT DISK CONTROLLER, T-200	
940065-0002	TRIDENT DISK CONTROLLER, T-25	
940065-0001	TRIDENT DISK CONTROLLER, T-50	

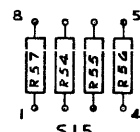
REVISIONS CONT. ENG-12 SHT 2		DATE		TXAS INSTRUMENTS	
3	11-22-77	TRIDENT DISK CONTROLLER			
1-19-77					
1-24-78		D 96214		940065	
1-1-78		SHEET 1 OF 2			



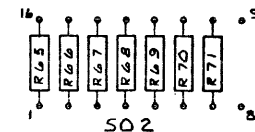
VIEW A  
SCALE: NONE  
SEE SH1



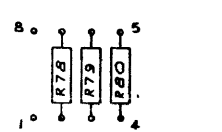
VIEW F  
SCALE: NONE  
SEE SH1



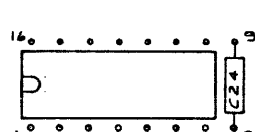
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SEE SH1



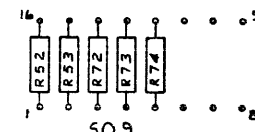
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SEE SH1



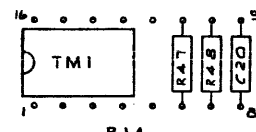
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SEE SH1



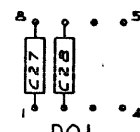
VIEW L  
SCALE: NONE  
SEE SH1



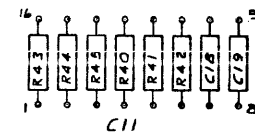
VIEW C  
SCALE: NONE  
SEE SH1



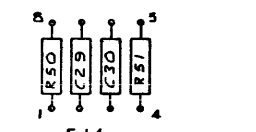
VIEW H  
SCALE: NONE  
SEE SH1



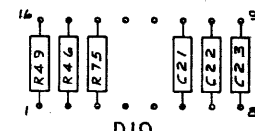
VIEW M  
SCALE: NONE  
SEE SH1



VIEW D  
SCALE: NONE  
SEE SH1



VIEW J  
SCALE: NONE  
SEE SH1



VIEW E  
SCALE: NONE  
SEE SH1

NOTES: CONTINUED

3. REWORK PROCEDURE FOR PWB 940066-001 REVISION \*:
  - A) ROUTE .10 INCH OFF OF THE TOP EDGE OF BOARD (ITEM 1), PRIOR TO ASSEMBLY OF CONNECTORS (ITEMS 98 AND 99)
  - B) ON UD15, RAISE PIN 14 AND ADD JUMPER WIRE FROM UD15 -# TO UACB-6
4. ITEM 63 MUST BE MACHINE PREPPED PRIOR TO INSERTION
5. ITEM 118 IN -00011-000+ LMS CONSISTS OF COMPONENTS WHICH ARE AUTO-INSERTED AND CONTAINED IN -50014-500+ LMS
6. RESISTORS R46 & R49, LOCATIONS D10-2 & D10-1, ARE SELECTED AT UNIT TEST. A TRIMMER RESISTOR AT D10-4 MAY BE ADDED AT UNIT TEST.
7. REWORK FOR ASSY REV K AND EARLIER. REMOVE C19 AT LOCATION C11 PINS 8&9. INSTALL A 1500 PF CAPACITOR (ITEM 109) PN 92293-0400 AT THIS LOCATION
8. THE RESISTORS INSTALLED AT LOCATION D10 PINS 1, 2, 3 OR 4 MAY BE SELECTED AT UNIT TEST FOR TIMING PURPOSES (ITEMS 69, 73, 75 FOR R46, R49 OR R75 RESPECTIVELY)

REVISIONS CONT.			
REV	DESCRIPTION	DATE	APPROVED
R	CN 456146 (D1C Edinick) (1) UPDATED REV LEVEL BLOCK	3-18-80	J. R. [Signature]

TEXAS INSTRUMENTS INCORPORATED				DATE	LIST OF MATERIAL	PAGE 1 of	PART NUMBER	REV
0002	REF	EA	0940067-9901	02/13/80	LOGIC DIAGRAM, LG 990 DISK CONTROLLER I/F		LM 0940065-0001	R
0003	REF	EA	0947530-9901		SPECIFICATION, TRIDENT DISK			
0004	REF	EA	0940068-9901		TEST PROC. UNIT, T-50 DISK CNTRLR ASSY, PWB			
0005	00002.000	EA	0972787-0003		NETWORK SN74LS367M			
0005A					UA01 U801			
0010	00001.000	EA	0219402-7138		NETWORK SN74S138N			
0010A					UA15			
0020	00001.000	EA	0222222-7457		NETWORK SN7497N			
0020A					UB15			
0021	00001.000	EA	0974849-0001		NETWORK, DM8136			
0021A					UC01			
0039	00001.000	EA	0996029-0001		IC, SN74LS273N OCTAL D-TYPE FLIP/FLOP	TI	-SN74LS273N	
0039A					UJ15			
0040	00008.000	EA	0974859-0001		NETWORK, BI-POLAR 2BIT PROCESSOR -3002			
0040A					UJ01 UJ02 UJ03 UJ04 UK01			
0040B					UK02 UK03 UK04			
0041	00001.000	EA	0974858-0001		NETWORK, BI-POLAR MICRO CONTROL -3001			
0041A					UJ10			
0045	00001.000	EA	0972900-7474		NETWORK SN74LS74N			
0045A					UM14			
DRAFTSMAN DATE CED DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE						TRIDENT DISK CONTROLLER, T-50		
APPRO. MFG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER REV						7506 LM 0940065-0001 R		

TEXAS INSTRUMENTS INCORPORATED				DATE	LIST OF MATERIAL	PAGE 2 of	PART NUMBER	REV
0056	00001.000	EA	0974866-0001	02/13/80	NETWORK, CRC GENERATOR		LM 0940065-0001	R
0056A					UM13			
0063	00001.000	EA	0972948-0002		TRANSISTOR, 2N2222A NPN GEN PURP SM TO-18 TI		-2N2222A	
0063A					G1			
0067	00017.000	EA	0972944-0041		RES FIX 100 OHM 5 X .25 W CARBON FILM	ROM	-R-25	
0067A					R58 R59 R40 R41 R42 R63 R64			
0067B					R65 R66 R67 R68 R69 R70 R71			
0067C					R72 R73 R74			
0068	00003.000	EA	0972975-0033		RES FIX COMP 220 OHMS 5 X 1/8 WATT	QPL	-RC05G221J5	
0068A					R41 R42 R81			
0069	00003.000	EA	0539370-0339		RES FIX FILM 332 OHM 1 X .25 WATT	COR	-NA55D-100PPM/C	
0069A					R44 R45 R46			
0070	00006.000	EA	0972975-0049		RES FIX COMP 1.0 K OHMS 5 X 1/8 WATT	QPL	-RC05G102J5	
0070A					R43 R77 R76 R78 R79 R80			
0071	00001.000	EA	0972975-0060		RES FIX COMP 3.0 K OHMS 5 X 1/8 WATT	QPL	-RC05G302J5	
0071A					R40			
0072	00002.000	EA	0972975-0045		RES FIX COMP 680 OHMS 5 X 1/8 WATT			
0072A					R52 R53			
0073	00001.000	EA	0539370-0347		RES FIX FILM 402 OHM 1 X .25 WATT	COR	-NA55	
0073A					R49			
DRAFTSMAN DATE CED DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE						TRIDENT DISK CONTROLLER, T-50		
APPRO. MFG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER REV						LM 0940065-0001 R		

TEXAS INSTRUMENTS INCORPORATED				DATE	LIST OF MATERIAL	PAGE 3 of	PART NUMBER	REV
0074	00002.000	EA	0972975-0113	02/13/80	X RES FIX COMP 470K OHM 5 X 1/8 W		LM 0940065-0001	R
0074A					R47 R48			
0075	00001.000	EA	0539370-0337		RES FIX FILM 316 OHM 1 X .25 WATT	COR	-NA55D-100PPM/C	
0075A					R75			
0076	00002.000	EA	0972975-0073		RESISTOR 10K OHMS 1/8W 5X			
0076A					R50 R51			
0077	00001.000	EA	0972975-0042		RES FIX COMP 510 OHMS 5 X 1/8 WATT	QPL	-RC05G511J5	
0077A					R57			
0078	00001.000	EA	0972188-0001		NETWORK, NE555V, MONOLITHIC TIMING, LINEAR	ST	-NE555V	
0078A					TM1			
0079	00001.000	EA	0972594-0001		SWITCH, ROCKER-PWB MOUNTED		023880-900124	
0079A					UD02			
0080	00004.000	EA	0539855-0002		RELAY, REED, DIP-250 MA 10 W 100 VDC		095348-GB831A-4	
0080A					UP09 UP10 UR09 UR10			
0081	00001.000	EA	0972929-0409		CAP FIX CERAMIC 4700 PF 10 X 100 V	QPL	-M39014/01-1409	
0081A					C33			
0082	00001.000	EA	0972927-0044		CAP FIX MICA 300V 510 PF 5 X	QPL	-CM05F511J0C	
0082A					C18			
0083	00005.000	EA	0972945-0024		CAP FIX CERAMIC .100 MF 10X 100V	QPL	-CK068X104K	
0083A					C25 C26 C27 C28 C29			
DRAFTSMAN DATE CED DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE						TRIDENT DISK CONTROLLER, T-50		
APPRO. MFG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER REV						LM 0940065-0001 R		

TEXAS INSTRUMENTS INCORPORATED				DATE	LIST OF MATERIAL	PAGE 4 of	PART NUMBER	REV
0084	00001.000	EA	0972929-0379	02/13/80	CAP FIX CERAMIC 100 PF 10 X 200 V	QPL	-M39014/01-1379	
0084A					C30			
0085	00017.000	EA	0972743-0021		CAP., FIXED, AXIAL LEAD, .047 UF, +80%, -20%			
0085A					C01 C02 C03 C04 C05 C06 C07			
0085B					C08 C09 C10 C11 C12 C13 C14			
0085C					C15 C16 C17			
0086	00002.000	EA	0972872-0001		NETWORK, LM 320H-05 VOLTAGE REGULATOR	-	-	
0086A					G2 C3			
0087	00001.000	EA	0539480-0003		OPTOELECTRONIC DEVICE-TIL 220			
0087A					CR4			
0088	00003.000	EA	0539480-0004		OPTOELECTRONIC DEVICE VISIBLE-LIGHT (GRN) TI		-TIL222	
0088A					CR1 CR2 CR3			
0089	00002.000	EA	0972924-0005		CAP FIX TANT SOLID 4.7 MFD 10 X 10 VOLT	QPL	-M39003/1-2254	
0089A					C31 C32			
0090	00001.000	EA	0972927-0047		CAP FIX MICA 300V 680 PF 5 X	QPL	-CM05F681J0C	
0090A					C22			
0091	00002.000	EA	0972927-0039		CAP FIX MICA 500V 330 PF 5 X	QPL	-CM05E331J0D	
0091A					C21 C23			
0092	00001.000	EA	0944954-0001		INSULATOR, PWB, 141H			
0093	00002.000	EA	0533844-0001		EJECTOR, NYLON, NON-LOCKING, PWB			
DRAFTSMAN DATE CED DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE						TRIDENT DISK CONTROLLER, T-50		
APPRO. MFG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER REV						LM 0940065-0001 R		



TEXAS INSTRUMENTS INCORPORATED		DATE 02/13/80		LIST OF MATERIAL		PAGE 5 of		PART NUMBER LM 0940065-0001		REV R		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0094	0001.000	EA		0945239-0001	BRACKET-STIFFENER, PWB, 14IN							
0095	0006.000	EA		0972684-0002	SCREW, THD FRMG, HEX WSHR HD, 2-56X1/4 LG							
0096	0004.000	EA		2210188-0003	SOCKET, LOW PROFILE, DIP, 16 CONT	003612-DIL816P-108						
0096A					XUF14 XUF15 XUM15 XUB15							
0097	0008.000	EA		2210188-0005	SOCKET, LOW PROFILE, DIP, 20 PINS	003612-DIL820P-108						
0097A					XUJ13 XUJ14 XUJ15 XUJ13							
0097B					XUJ14 XUM13 XUM14 XUM15							
0098	0001.000	EA		0972137-0010	CONNECTOR, P.C. HEADER 50 CONTACTS	BEI - 65483-020						
0098A					P1							
0099	0004.000	EA		0972706-0008	HEAD, CONNECTOR, 20 CONTACT 1 AMP	MMH - 3492-1003						
0099A					P2 P3 P4 P5							
0100	0002.000	EA		0232583-0025	TO-5 MOUNTING PAD, 4-LEADS, TEFLON	SEE TI- DRAWING						
0101	0009.000	EA		4972713-0001	PLUG, JUMPER, 1.C., 0.300 INCH							
0101A					J1 THRU J9							
0102	0001.000	EA		0947581-0015	CONTROL ROM NO 18, TRIDENT (T25/50)							
0102A					UK14							
0103	0001.000	EA		0947581-0020	CONTROL ROM NO 58, TRIDENT (T25/50)							
0103A					UK15							
0104	0003.000	EA		0972975-0025	RES FIX COMP 100 OHMS 5% 1/8 WATT	QPL - RC05G101J5						
0104A					R54 R55 R56							
DRAFTSMAN		DATE	CAD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE TRIDENT DISK CONTROLLER, T-50					
APPD. MFG		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO. LM 0940065-0001					

TEXAS INSTRUMENTS INCORPORATED		DATE 02/13/80		LIST OF MATERIAL		PAGE 6 of		PART NUMBER LM 0940065-0001		REV R		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0105	0001.000	EA		0947581-0016	CONTROL ROM NO 28, TRIDENT (T25/50)							
0105A					UJJ14							
0106	0001.000	EA		0947581-0017	CONTROL ROM NO 38, TRIDENT (T25/50)							
0106A					UJ14							
0107	0001.000	EA		0947581-0023	CONTROL ROM NO 48, TRIDENT (T-50)							
0107A					UJJ13							
0109	0002.000	EA		0972929-0400	CAP, FIXED CERAMIC, .0015UF 10% 100V							
0109A					C19, C20							
0110	0001.000	EA		0972929-0385	CAP FIX CERAMIC 220 PF 10% 200V	SEE - TI DRAWING						
0110A					C24							
0111	0001.000	EA		2210188-0001	SOCKET, LOW PROFILE, DIP, 3 CONT, 8 PINS	003612-DIL88P-108						
0111A					UB14							
0112	0003.000	EA		2210188-0002	SOCKET, LOW PROFILE, DIP, 14 PINS	003612-DIL814P-108						
0112A					XUM13 XUM14 XUM16							
0114	0001.000	EA		0947581-0024	CONTROL ROM NO 48, TRIDENT (T-25)							
0114A					UK13							
0115	0001.000	EA		0947581-0025	CONTROL ROM NO.4, TRIDENT (T-200)							
0115A					UJ13							
0116	0001.000	EA		0946788-0001	INSULATOR, STIFFENER, PWB, 11 INCH							
0117	0001.000	EA		0946787-0001	STIFFENER, PWB, 11 INCH							
DRAFTSMAN		DATE	CAD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE TRIDENT DISK CONTROLLER, T-50					
APPD. MFG		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO. LM 0940065-0001					

TEXAS INSTRUMENTS INCORPORATED		DATE 02/13/80		LIST OF MATERIAL		PAGE 7 of		PART NUMBER LM 0940065-0001		REV R		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0118	0001.000	EA		0940065-5001	AUTO INSERTED PARTS LIST FOR 940065-0001							
DRAFTSMAN		DATE	CAD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE TRIDENT DISK CONTROLLER, T-50					
APPD. MFG		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO. LM 0940065-0001					

TEXAS INSTRUMENTS INCORPORATED		DATE 02/13/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0940065-0002		REV R		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0119	0001.000	EA		0940065-0001	TRIDENT DISK CONTROLLER, T-50							
0120	REF	EA		2261648-9901	MOD PROC, PWB CNTRLR, T50 TO T25/T200							
DRAFTSMAN		DATE	CAD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE TRIDENT DISK CONTROLLER, T-25					
APPD. MFG		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO. LM 0940065-0002					

TEXAS INSTRUMENTS INCORPORATED		DATE 02/13/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0940065-0003		REV R		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0119	0001.000	EA		0940065-0001	TRIDENT DISK CONTROLLER, T-50							
0120	REF	EA		2261648-9901	MOD PROC, PWB CNTRLR, T50 TO T25/T200							
DRAFTSMAN				DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE			
									TRIDENT DISK CONTROLLER, T-200			
APPRO. MFG.				DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER	REV	
										LM 0940065-0003	R	

TEXAS INSTRUMENTS INCORPORATED		DATE 02/14/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0940065-0004		REV R		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0002	REF	EA		0940067-9901	LOGIC DIAGRAM, LG 990 DISK CONTROLLER I/F							
0003	REF	EA		0947530-9901	SPECIFICATION, TRIDENT DISK							
0004	REF	EA		0940068-9901	TEST PROC, UNIT, T-50 DISK CNTRLR ASSY, PWB							
0005	00002.000	EA		0972787-0003	NETWORK SN74LS367N							
0005A					UA01 UB01							
0010	00001.000	EA		0219402-7138	NETWORK SN74S138N							
0010A					UA15							
0020	00001.000	EA		0222222-7497	NETWORK SN7497N							
0020A					UB15							
0021	00001.000	EA		0974849-0001	NETWORK, DM8136							
0021A					UC01							
0039	00001.000	EA		0996029-0001	IC, SN74LS273N OCTAL D-TYPE FLIP/FLOP	TI	-SN74LS273N					
0039A					UJ15							
0040	00008.000	EA		0974859-0001	NETWORK, BI-POLAR 2BIT PROCESSOR -3002							
0040A					UJ01 UJ02 UJ03 UJ04 UK01							
0040B					UK02 UK03 UK04							
0041	00001.000	EA		0974858-0001	NETWORK, BI-POLAR MICRO CONTROL -3001							
0041A					UJ10							
0045	00001.000	EA		0972900-7474	NETWORK SN74LS74N							
0045A					UM14							
DRAFTSMAN				DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE			
									TRIDENT DISK CONTROLLER, T-50 (FL)			
APPRO. MFG.				DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER	REV	
										LM 0940065-0004	R	

TEXAS INSTRUMENTS INCORPORATED		DATE 02/14/80		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM 0940065-0004		REV R		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0056	00001.000	EA		0974866-0001	NETWORK, CRC GENERATOR	PCD	--9401					
0056A					UM13							
0063	00001.000	EA		0972948-0002	TRANSISTOR, 2N2222A NPN GEN PURP SW TU-18	TI	- 2N2222A					
0063A					Q1							
0067	00017.000	EA		0972946-0041	RES FIX 100 OHM 5% .25 W CARBON FILM	RUH	- R-25					
0067A					R58 R59 R60 R61 R62 R63 R64							
0067B					R65 R66 R67 R68 R69 R70 R71							
0067C					R72 R73 R74							
0068	00003.000	EA		0972975-0033	RES FIX COMP 220 OHMS 5% 1/8 WATT	WPL	- RC05G221JS					
0068A					R41 R42 R81							
0069	00003.000	EA		0539370-0339	RES FIX FILM 332 OHM 1% .25 WATT	GOR	-NA55D-100PPM/C					
0069A					R44 R45 R46							
0070	00006.000	EA		0972975-0049	RES FIX COMP 1.0 K OHMS 5% 1/8 WATT	WPL	- RC05G102JS					
0070A					R43 R77 R76 R78 R79 R80							
0071	00001.000	EA		0972975-0060	RES FIX COMP 3.0 K OHMS 5% 1/8 WATT	WPL	- RL05G302JS					
0071A					R40							
0072	00002.000	EA		0972975-0045	RES FIX COMP 680 OHMS 5% 1/8 WATT							
0072A					R52 R53							
0073	00001.000	EA		0539370-0338	RES FIX FILM 324 OHM 1% .25 WATT	GOR	-NA55D-100PPM/C					
0073A					R49							
DRAFTSMAN				DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE			
									TRIDENT DISK CONTROLLER, T-50 (FL)			
APPRO. MFG.				DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER	REV	
										LM 0940065-0004	R	

TEXAS INSTRUMENTS INCORPORATED		DATE 02/14/80		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM 0940065-0004		REV R		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0076	00002.000	EA		0972975-0113	X RES FIX COMP 470K OHM 5% 1/8W	QPL	- RC05G474JS					
0074A					R47 R48							
0075	00001.000	EA		0539370-0337	RES FIX FILM 316 OHM 1% .25 WATT	GOR	-NA55D-100PPM/C					
0075A					R75							
0076	00002.000	EA		0972975-0073	RESISTOR 10K OHMS 1/8W 5%							
0076A					R50 R51							
0077	00001.000	EA		0972975-0042	RES FIX COMP 510 OHMS 5% 1/8 WATT	QPL	- RC05G511JS					
0077A					R57							
0078	00001.000	EA		0972188-0001	NETWORK, NE555V, MONOLITHIC TIMING, LINEAR	ST	-NE555V					
0078A					TM1							
0079	00001.000	EA		0972594-0001	SWITCH, RUCKER-PWB MOUNTED	023880-900124						
0079A					UD02							
0080	00004.000	EA		0539855-0002	RELAY, REED, DIP-250 MA 10 W 100 VDC	095348-G8831A-4						
0080A					UP09 UP10 UR09 UR10							
0081	00001.000	EA		0972929-0409	CAP FIX CERAMIC 4700 PF 10% 100 V	QPL	-M39014/01-1409					
0081A					C33							
0082	00001.000	EA		0972927-0044	CAP FIX MICA 300V 510 PF 5%	WPL	-CM05F511JOC					
0082A					C18							
0083	00005.000	EA		0972965-0024	CAP FIX CERAMIC .100 MF 10% 100V	WPL	-CK068X104K					
0083A					C25 C26 C27 C28 C29							
DRAFTSMAN				DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE			
									TRIDENT DISK CONTROLLER, T-50 (FL)			
APPRO. MFG.				DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER	REV	
										LM 0940065-0004	R	

TEXAS INSTRUMENTS INCORPORATED		DATE 02/14/80		LIST OF MATERIAL		PAGE 4 of		PART NUMBER LM0940065-0004		REV R	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0084	00001.000	EA		0972929-0379	CAP FIX CERAMIC 100 PF 10 X 200 V	QPL -H39014/01-1379					
0084A					C30						
0085	00017.000	EA		0972763-0021	CAP.,FIXED,AXIAL LEAD,-.047 UF,+80%, -20%						
0085A					C01 C02 C03 C04 C05 C06 C07						
0085B					C08 C09 C10 C11 C12 C13 C14						
0085C					C15 C16 C17						
0086	00002.000	EA		0972872-0001	NETWORK,LM 320H-05 VOLTAGE REGULATOR	-					
0086A					Q2 Q3						
0087	00001.000	EA		0539480-0003	OPTOELECTRONIC DEVICE-TIL 220						
0087A					CR4						
0088	00003.000	EA		0539480-0004	OPTOELECTRONIC DEVICE VISIBLE-LIGHTIGN	TI -TIL222					
0088A					CR1 CR2 CR3						
0089	00002.000	EA		0972924-0005	CAP FIX TANT SOLID 4.7 MFD 10 X 10 VOLT	QPL -H39003/1-2254					
0089A					C31 C32						
0090	00001.000	EA		0972927-0047	CAP FIX MICA 300V 680 PF 5 X	QPL -CM05F681JUC					
0090A					C22						
0091	00002.000	EA		0972927-0039	CAP FIX MICA 500V 330 PF 5 X	QPL -CM05E331JUD					
0091A					C21 C23						
0092	00001.000	EA		0944954-0001	INSULATOR, PWB, 1.4IN						
0093	00002.000	EA		0533844-0001	EJECTOR, NYLON, NON-LOCKING, PWB						
DRAFTSMAN DATE CDD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE TRIDENT DISK CONTROLLER, T-50 (FL)											
APPD. ENG. DATE APPD. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM0940065-0004 R											

TEXAS INSTRUMENTS INCORPORATED		DATE 02/14/80		LIST OF MATERIAL		PAGE 5 of		PART NUMBER LM0940065-0004		REV R	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0094	00001.000	EA		0945239-0001	BRACKET-STIFFENER, PWB, 1.4IN						
0095	00006.000	EA		0972684-0002	SCREW,TMD FRMG,HEX WSHR HD,2-56X1/4 LG						
0096	00004.000	EA		2210188-0003	SOCKET,LOW PROFILE,DIP,16 CONT	003612-DILB16P-108					
0096A					XUF14 XUF15 XUM15 XUB15						
0097	00008.000	EA		2210188-0005	SOCKET, LOW PROFILE, DIP, 20 PINS	003612-DILB20P-108					
0097A					XUJ13 XUJ14 XUJ15 XUJ13						
0097B					XUJ14 XUJ13 XUM14 XUM15						
0098	00001.000	EA		0972137-0010	CONNECTOR,P.C.HEADER 50 CONTACTS	BEI - 65483-020					
0098A					P1						
0099	00004.000	EA		0972706-0008	HEAD,CONNECTOR,20 CONTACT 1 AMP	MMM - 3492-1003					
0099A					P2 P3 P4 P5						
0100	00002.000	EA		0232583-0025	TU-5 MOUNTING PAD,4-LEADS,TEFLON	SEE TI- DRAWING					
0101	00009.000	EA		0972713-0001	PLUG, JUMPER, I.C., 0.300 INCH						
0101A					J1 THRU J9						
0102	00001.000	EA		0947581-0015	CONTROL ROM NO 18,TRIDENT (T25/50)						
0102A					UK14						
0103	00001.000	EA		0947581-0020	CONTROL ROM NO 58,TRIDENT (T25/50)						
0103A					UK15						
0104	00003.000	EA		0972975-0025	RES FIX CUMP 100 OHMS 5% 1/8 WATT	QPL - RC05G101JS					
0104A					R54 R55 R56						
DRAFTSMAN DATE CDD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE TRIDENT DISK CONTROLLER, T-50 (FL)											
APPD. ENG. DATE APPD. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM0940065-0004 R											

TEXAS INSTRUMENTS INCORPORATED		DATE 02/14/80		LIST OF MATERIAL		PAGE 6 of		PART NUMBER LM0940065-0004		REV R	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0105	00001.000	EA		0947581-0016	CONTROL ROM NO 28,TRIDENT (T25/50)						
0105A					UJ14						
0106	00001.000	EA		0947581-0017	CONTROL ROM NO 38,TRIDENT (T25/50)						
0106A					UJ14						
0107	00001.000	EA		0947581-0023	CONTROL ROM NO 48,TRIDENT (T-50)						
0107A					UJ13						
0109	00002.000	EA		0972929-0400	CAP,FIXED CERAMIC,.0015UF 10% 100V						
0109A					C19 C20						
0110	00001.000	EA		0972929-0385	CAP FIX CERAMIC 220 PF 10% 200V	SEE - TI DRAWING					
0110A					C24						
0111	00001.000	EA		2210188-0001	SOCKET,LOW PROFILE,DIP, 3 CONT, 8 PINS	003612-DILB8P-108					
0111A					UB14						
0112	00003.000	EA		2210188-0002	SOCKET,LOW PROFILE,DIP, 14 PINS	003612-DILB14P-108					
0112A					XUM13 XUM14 XUM10						
0114	00001.000	EA		0947581-0024	CONTROL ROM NO 48,TRIDENT (T-25)						
0114A					UK13						
0115	00001.000	EA		0947581-0025	CONTROL ROM NO.4,TRIDENT (T-200)						
0115A					UJ13						
0116	00001.000	EA		0946708-0001	INSULATOR,STIFFENER,PWB,1.1 INCH						
0117	00001.000	EA		0946707-0001	STIFFENER,PWB,1.1 INCH						
DRAFTSMAN DATE CDD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE TRIDENT DISK CONTROLLER, T-50 (FL)											
APPD. ENG. DATE APPD. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM0940065-0004 R											

TEXAS INSTRUMENTS INCORPORATED		DATE 02/14/80		LIST OF MATERIAL		PAGE 7 of		PART NUMBER LM0940065-0004		REV R	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0118	00001.000	EA		0940065-5004	AUTO INSERTED PARTS LIST FOR 940065-0004						
DRAFTSMAN DATE CDD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE TRIDENT DISK CONTROLLER, T-50 (FL)											
APPD. ENG. DATE APPD. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM0940065-0004 R											

TEXAS INSTRUMENTS INCORPORATED		DATE	LIST OF MATERIAL	PAGE 1 of	PART NUMBER	REV
02/13/80					LM 0940065-0005	R
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0119	00001.000	EA		0940065-0004	TRIDENT DISK CONTROLLER, T-50 (FL)	
0120	REF	EA		2261648-9901	MOD PROC, PWB CNTRLR, T50 TO T25/T200	
DRAFTSMAN DATE C/D DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE TRIDENT DISK CONTROLLER, T-25 (FL)						
APPRO. MFG DATE APPO. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM 0940065-0005 R						

TEXAS INSTRUMENTS INCORPORATED		DATE	LIST OF MATERIAL	PAGE 1 of	PART NUMBER	REV
02/13/80					LM 0940065-0006	R
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0119	00001.000	EA		0940065-0004	TRIDENT DISK CONTROLLER, T-50 (FL)	
0120	REF	EA		2261648-9901	MOD PROC, PWB CNTRLR, T50 TO T25/T200	
DRAFTSMAN DATE C/D DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE TRIDENT DISK CONTROLLER, T-200 (FL)						
APPRO. MFG DATE APPO. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM 0940065-0006 R						

TEXAS INSTRUMENTS INCORPORATED		DATE	LIST OF MATERIAL	PAGE 1 of	PART NUMBER	REV
02/13/80					LM 0940065-5001	R
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0001	00001.000	EA		0940066-0001	PWB, LG 990 DISK CONTROLLER I/F	
0005	00008.000	EA		0972787-0003	NETWORK SN74LS367N	
0005A					UA02 UA03 UA04 UA05 UB02	
0005B					UB03 UF02 UM10	
0006	00001.000	EA		0972787-0004	NETWORK SN74LS368N	
0006A					UA06	
0007	00014.000	EA		0974674-0001	NETWORK SN75138N	
0007A					UA07 UA08 UA09 UL01 UL02	
0007B					UL03 UL04 UP15 UR01 UR03	
0007C					UR05 UR07 US04 US08	
0008	00003.000	EA		0240000-7411	NETWORK-SN74H11N	
0008A					UA10 UF13 UL06	
0009	00007.000	EA		0972900-7404	NETWORK SN74LS04N	
0009A					UA14 UD08 UE10 UM09 UN14	
0009B					UN15 US12	
0010	00003.000	EA		0219402-7138	NETWORK SN74S138N	
0010A					UC13 UC14 UC15	
0011	00001.000	EA		0219402-7400	NETWORK SN74S00N	
0011A					UF10	
0012	00001.000	EA		0972900-7420	NETWORK SN74LS20N	
DRAFTSMAN DATE C/D DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO INSERTED PARTS LIST FOR 940065-0001						
APPRO. MFG DATE APPO. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM 0940065-5001 R						

TEXAS INSTRUMENTS INCORPORATED		DATE	LIST OF MATERIAL	PAGE 2 of	PART NUMBER	REV
02/13/80					LM 0940065-5001	R
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0012A					UF06	
0013	00001.000	EA		0972784-0001	NETWORK SN74LS13N	
0013A					UB05	
0014	00002.000	EA		0240000-7404	NETWORK SN74H04N	
0014A					UB06 UE05	
0015	00006.000	EA		0972900-7400	NETWORK SN74LS00N	TI -SN74LS00N
0015A					UB07 UE01 UE06 UF11 UL07	
0015B					UA11	
0016	00003.000	EA		0240000-7400	NETWORK-SN74H00N	
0016A					UB08 UB10 UF12	
0017	00001.000	EA		0240000-7451	NETWORK-SN74H51N	
0017A					UB09	
0018	00002.000	EA		0222222-7407	NETWORK-SN7407N	TI- -SN7407N
0018A					UB11 UC09	
0019	00003.000	EA		0972900-7109	NETWORK SN74LS109N	TI -SN74LS109N
0019A					UB13 UE09 UL08	
0021	00003.000	EA		0974849-0001	NETWORK, CM8136	
0021A					UC02 UC03 UB12	
0022	00001.000	EA		0972900-7410	NETWORK SN74LS10N	
0022A					LC05	
DRAFTSMAN DATE C/D DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO INSERTED PARTS LIST FOR 940065-0001						
APPRO. MFG DATE APPO. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM 0940065-5001 R						

TEXAS INSTRUMENTS INCORPORATED		DATE 02/13/80		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM 0940065-5001		REV R	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0023	00002.000	EA		0240000-7474	NETWORK-SN74H74N						
0023A					UC06 UC08						
0024	00003.000	EA		0972749-0001	NETWORK, SN74LS08N						
0024A					UC07 UD05 UL15						
0025	00002.000	EA		0222222-7132	NETWORK SN74132N						
0025A					UC10 UD09						
0026	00001.000	EA		0972900-7432	NETWORK SN74LS32N	TI	-SN74LS32N				
0026A					UD06						
0027	00004.000	EA		0972900-7402	NETWORK,SN74LS02N						
0027A					UD07 UL10 UL11 UL14						
0028	00007.000	EA		C596049-0001	IC,SN74LS298N QUAD 2-INPUT MPXR	TI	-SN74LS298N				
0028A					UD11 UD13 UM01 UM03 UM05						
0028B					UM07 UN11						
0029	00001.000	EA		0972751-0001	NETWORK, SN74LS86N						
0029A					UD12						
0030	00004.000	EA		0222222-7173	NETWORK SN74173N						
0030A					UD14 UD15 UF07 UF08						
0031	00002.000	EA		0972654-0001	NETWORK,SN74LS670N						
0031A					UE03 UE04						
0032	00001.000	EA		0222222-7437	NETWORK SN7437N						
DRAFTSMAN DATE C/D DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE											
APPRO. DATE APPD. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO.											
AUTO INSERTED PARTS LIST FOR 940065-0001											
PART NUMBER REV											
LM 0940065-5001 R											

TEXAS INSTRUMENTS INCORPORATED		DATE 02/13/80		LIST OF MATERIAL		PAGE 4 of		PART NUMBER LM 0940065-5001		REV R	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0032A					UE08						
0033	00001.000	EA		0222222-7148	NETWORK SN74148N						
0033A					UF01						
0034	00002.000	EA		0219402-7157	NETWORK SN74S157N						
0034A					UF03 UF04						
0035	00003.000	EA		0219402-7182	NETWORK SN74S182N	TI	-SN74S182N				
0035A					UF05 UM03 UM05						
0036	00006.000	EA		0972686-0001	NETWORK-QUAC MULTIPLEXER, SN74LS157N						
0036A					UM01 UM02 UM06 UM07 UL12						
0036B					UN12						
0037	00001.000	EA		0219402-7153	NETWORK SN74S153N	TI	-SN74S153N				
0037A					UM04						
0038	00001.000	EA		0219402-7151	NETWORK SN74S151N						
0038A					UM08						
0042	00001.000	EA		0972900-7454	NETWORK SN74LS54N	TI	-SN74LS54N				
0042A					UE07						
0043	00002.000	EA		0972900-7197	NETWORK SN74LS197N	TI	-SN74LS197N				
0043A					UE11 UE12						
0044	00001.000	EA		0972159-7221	NETWORK SN74221N	TI-	-SN74221N				
0044A					UE13						
DRAFTSMAN DATE C/D DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE											
APPRO. DATE APPD. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO.											
AUTO INSERTED PARTS LIST FOR 940065-0001											
PART NUMBER REV											
LM 0940065-5001 R											

TEXAS INSTRUMENTS INCORPORATED		DATE 02/13/80		LIST OF MATERIAL		PAGE 5 of		PART NUMBER LM 0940065-5001		REV R	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0045	00003.000	EA		0972900-7474	NETWORK SN74LS74N						
0045A					UE15 UM10 UE02						
0046	00002.000	EA		0219402-7474	NETWORK SN74S74N						
0046A					UM11 UF09						
0047	00001.000	EA		0219402-7408	NETWORK SN74S08N	TI-	-SN74S08N				
0047A					UM12						
0048	00001.000	EA		0222222-7470	NETWORK SN7470N						
0048A					UM13						
0049	00004.000	EA		0972900-7174	NETWORK SN74LS174N						
0049A					UM14 UR02 UR04 UR06						
0050	00002.000	EA		0219402-7260	NETWORK SN74S260N						
0050A					UL05 UM15						
0051	00003.000	EA		0219402-7163	NETWORK, SN74S163N						
0051A					UL09 UM09 UB04						
0052	00001.000	EA		0972813-0001	NETWORK-SN74LS21N						
0052A					UL13						
0053	00005.000	EA		0996427-0001	IC,SN74LS195AN 4-BIT PARALLEL-ACCESS	001295-SN74LS195AN					
0053A					UM02 UM04 UM06 UM08 UP12						
0054	00001.000	EA		0972900-7175	NETWORK SN74LS175N						
0054A					UM11						
DRAFTSMAN DATE C/D DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE											
APPRO. DATE APPD. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO.											
AUTO INSERTED PARTS LIST FOR 940065-0001											
PART NUMBER REV											
LM 0940065-5001 R											

TEXAS INSTRUMENTS INCORPORATED		DATE 02/13/80		LIST OF MATERIAL		PAGE 6 of		PART NUMBER LM 0940065-5001		REV R	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0055	00009.000	EA		0972900-7153	NETWORK SN74LS153N	TI	-SN74LS153N				
0055A					UM12 UP01 UP02 UP03 UP04						
0055B					UP05 UP06 UP07 UP08						
0057	00010.000	EA		0600006-0002	IC,3341ADC, MDS MEM 64-WORD X 4 BIT	FCD	- 3341ADC				
0057A					UM01 UM02 UM03 UM04 UM05						
0057B					UM06 UM07 UM08 UM09 UM10						
0058	00001.000	EA		0972159-7265	NETWORK, SN74265N						
0058A					UM13						
0059	00001.000	EA		0222222-7438	NETWORK SN7438N						
0059A					UP11						
0060	00001.000	EA		0219402-7175	NETWORK SN74S175N						
0060A					UR08						
0061	00004.000	EA		0219401-1108	NETWORK INTERFACE MIC SN75108N						
0061A					UR11 UR12 UR15 US11						
0062	00002.000	EA		0219401-1110	NETWORK SN75110N						
0062A					US13 US14						
0065	00002.000	EA		0972037-1910	NETWORK,RES 91 CHM 24 16PIN BELEMENT BEC						
0065A					UT09 UT10						
0066	00002.000	EA		0972141-0034	NETWORK,RES. 510 CHM 2 & 14 PIN DIP	BEC	- 899-1-R510				
0066A					UD03 UD04						
DRAFTSMAN DATE C/D DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE											
APPRO. DATE APPD. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO.											
AUTO INSERTED PARTS LIST FOR 940065-0001											
PART NUMBER REV											
LM 0940065-5001 R											

TEXAS INSTRUMENTS INCORPORATED		DATE 02/13/80		LIST OF MATERIAL		PAGE 7 of		PART NUMBER LM 0940065-5001		REV R 1	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0108	00002.000	EA		0972784-0002	NETWORK SN74LS14N						
0108A					US03 UC04						
0113	00001.000	EA		0219402-7402	NETWORK SN74S02N	TI	-SN74S02N				
0113A					UA13						
DRAFTSMAN DATE CED DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE											
AUTO INSERTED PARTS LIST FOR 940065-0004											
APPRO. DATE APPRO. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO.											
PART NUMBER LM 0940065-5001											
REV R 1											

TEXAS INSTRUMENTS INCORPORATED		DATE 02/13/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0940065-5004		REV R 1	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00001.000	EA		2262111-0001	PWB, TRIDENT FINELINE (TRIDFL)						
0005	00008.000	EA		0972787-0003	NETWORK SN74LS367N						
0005A					UA02 UA03 UA04 UA05 UB02						
0005B					UB03 UF02 UP10						
0006	00001.000	EA		0972787-0004	NETWORK SN74LS368N						
0006A					UA06						
0007	00014.000	EA		0974674-0401	NETWORK SN75138N						
0007A					UA07 UA08 UA09 UL01 UL02						
0007B					UL03 UL04 UP15 UR01 UR03						
0007C					UR05 UR07 US04 US08						
0008	00003.000	EA		0240000-7411	NETWORK-SN74H11N						
0008A					UA10 UF13 UL06						
0009A	00007.000	EA		0972900-7404	NETWORK SN74LS04N						
0009B					UA14 UD08 UE10 UH09 UN14						
0009C					UN15 US12						
0010	00003.000	EA		0219402-7138	NETWORK SN74LS138N						
0010A					UC13 UC14 UC15						
0011	00001.000	EA		0219402-7400	NETWORK SN74S00N						
0011A					UF10						
0012	00001.000	EA		0972900-7420	NETWORK SN74LS20N						
DRAFTSMAN DATE CED DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE											
AUTO INSERTED PARTS LIST FOR 940065-0004											
APPRO. DATE APPRO. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO.											
PART NUMBER LM 0940065-5004											
REV R 1											

TEXAS INSTRUMENTS INCORPORATED		DATE 02/13/80		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM 0940065-5004		REV R 1	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0012A					UF06						
0013	00001.000	EA		0972784-0001	NETWORK SN74LS13N						
0013A					UB05						
0014	00002.000	EA		0240000-7404	NETWORK SN74H04N						
0014A					UB06 UE05						
0015	00006.000	EA		0972900-7400	NETWORK SN74LS00N	TI	-SN74LS00N				
0015A					UB07 UE01 UE06 UF11 UL07						
0015B					UA11						
0016	00003.000	EA		0240000-7400	NETWORK-SN74H00N						
0016A					UB08 UB10 UF12						
0017	00001.000	EA		0240000-7451	NETWORK-SN74H51N						
0017A					UB09						
0018	00002.000	EA		0222222-7407	NETWORK-SN7407N	TI-	-SN7407N				
0018A					UB11 UC09						
0019	00003.000	EA		0972900-7109	NETWORK SN74LS109N	TI	-SN74LS109N				
0019A					UB13 UE09 UL08						
0021	00003.000	EA		0974049-0001	NETWORK, DM8136						
0021A					UC02 UC03 UB12						
0022	00001.000	EA		0972900-7410	NETWORK SA74LS10N						
0022A					UC05						
DRAFTSMAN DATE CED DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE											
AUTO INSERTED PARTS LIST FOR 940065-0004											
APPRO. DATE APPRO. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO.											
PART NUMBER LM 0940065-5004											
REV R 1											

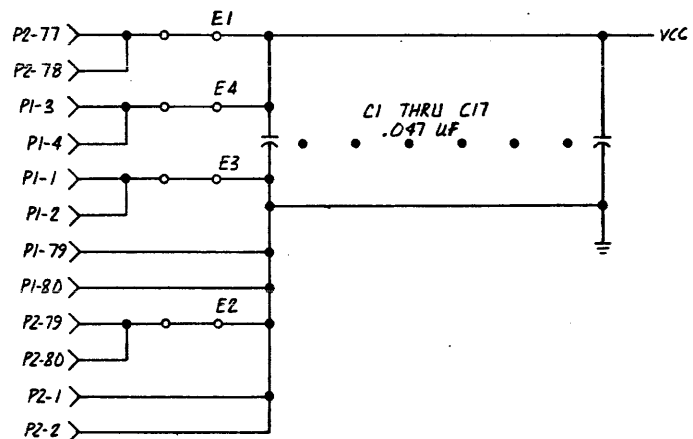
TEXAS INSTRUMENTS INCORPORATED		DATE 02/13/80		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM 0940065-5004		REV R 1	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0023	00002.000	EA		0240000-7474	NETWORK-SN74H74N						
0023A					UC06 UC08						
0024	00003.000	EA		0972749-0001	NETWORK, SN74LS08N						
0024A					UC07 UD05 UL15						
0025	00002.000	EA		0222222-7132	NETWORK SN74LS32N						
0025A					UC10 UD09						
0026	00001.000	EA		0972900-7432	NETWORK SN74LS32N	TI	-SN74LS32N				
0026A					UD06						
0027	00004.000	EA		0972900-7402	NETWORK, SN74LS02N						
0027A					UD07 UL10 UL11 UL14						
0028	00007.000	EA		0996049-0001	IC, SN74LS298N QUAD 2-INPUT MPXR	TI	-SN74LS298N				
0028A					UD11 UD13 UF01 UM03 UM05						
0028B					UM07 UN11						
0029	00001.000	EA		0972751-0001	NETWORK, SN74LS86N						
0029A					UD12						
0030	00004.000	EA		0222222-7173	NETWORK SN74173N						
0030A					UD14 UD15 UF07 UF08						
0031	00002.000	EA		0972654-0401	NETWORK, SN74LS670N						
0031A					UE03 UE04						
0032	00001.000	EA		0222222-7437	NETWORK SN7437N						
DRAFTSMAN DATE CED DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE											
AUTO INSERTED PARTS LIST FOR 940065-0004											
APPRO. DATE APPRO. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO.											
PART NUMBER LM 0940065-5004											
REV R 1											

TEXAS INSTRUMENTS INCORPORATED		DATE	02/13/80	LIST OF MATERIAL	PAGE	4 of	PART NUMBER	REV
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER	LM 0940065-5004 R	
0032A					UE08			
0033	00001.000	EA		0222222-7148	NETWORK SN74148N			
0033A					UF01			
0034	00002.000	EA		0219402-7157	NETWORK SN74S157N			
0034A					UF03 UF04			
0035	00003.000	EA		0219402-7182	NETWORK SN74S182N	TI -SN74S182N		
0035A					UF05 UH03 UF05			
0036	00006.000	EA		0972686-0001	NETWORK-QUAD MULTIPLEXER, SN74LS157N			
0036A					UH01 UH02 UH06 UH07 UL12			
0036B					UN12			
0037	00001.000	EA		0219402-7153	NETWORK SN74S153N	TI -SN74S153N		
0037A					UH04			
0038	00001.000	EA		0219402-7151	NETWORK SN74S151N			
0038A					UH08			
0042	00001.000	EA		0972900-7454	NETWORK SN74LS54N	TI -SN74LS54N		
0042A					UE07			
0043	00002.000	EA		0972900-7197	NETWORK SN74LS197N	TI -SN74LS197N		
0043A					UE11 UE12			
0044	00001.000	EA		0972159-7221	NETWORK SN74221N	TI- -SN74221N		
0044A					UE13			
DRAFTSMAN: DATE: C/D DRAFTSMAN: DATE: DESIGN ENGINEER: DATE: TITLE: AUTO INSERTED PARTS LIST FOR 940065-0004 APP'D: MFG: DATE: APP'D PROJECT ENGINEER: DATE: RELEASED: DATE: PROJECT NO: PART NUMBER: REV: LM 0940065-5004 R								

TEXAS INSTRUMENTS INCORPORATED		DATE	02/13/80	LIST OF MATERIAL	PAGE	5 of	PART NUMBER	REV
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER	LM 0940065-5004 R	
0045	00003.000	EA		0972900-7474	NETWORK SN74LS74N			
0045A					UE15 UH10 UE02			
0046	00002.000	EA		0219402-7474	NETWORK SN74S74N			
0046A					UH11 UF09			
0047	00001.000	EA		0219402-7408	NETWORK SN74S08N	TI- -SN74S08N		
0047A					UH12			
0048	00001.000	EA		0222222-7470	NETWORK SN7470N	-SN7470N		
0048A					UH13			
0049	00004.000	EA		0972900-7174	NETWORK SN74LS174N			
0049A					UH14 UR02 UR04 UR06			
0050	00002.000	EA		0219402-7260	NETWORK SN74S260N			
0050A					UL05 UM15			
0051	00003.000	EA		0219402-7163	NETWORK, SN74S163N			
0051A					UL09 UM09 UB04			
0052	00001.000	EA		0972813-0001	NETWORK-SN74LS21N			
0052A					UL13			
0053	00005.000	EA		0996427-0001	IC, SN74LS195AN 4-BIT PARALLEL-ACCESS	001295-SN74LS195AN		
0053A					UM02 UM04 UM06 UM08 UP12			
0054	00001.000	EA		0972900-7175	NETWORK SN74LS175N			
0054A					UH11			
DRAFTSMAN: DATE: C/D DRAFTSMAN: DATE: DESIGN ENGINEER: DATE: TITLE: AUTO INSERTED PARTS LIST FOR 940065-0004 APP'D: MFG: DATE: APP'D PROJECT ENGINEER: DATE: RELEASED: DATE: PROJECT NO: PART NUMBER: REV: LM 0940065-5004 R								

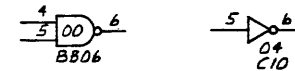
TEXAS INSTRUMENTS INCORPORATED		DATE	02/13/80	LIST OF MATERIAL	PAGE	6 of	PART NUMBER	REV
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER	LM 0940065-5004 R	
0055	00009.000	EA		0972900-7153	NETWORK SN74LS153N	TI -SN74LS153N		
0055A					UM12 UP01 UP02 UP03 UP04			
0055B					UP05 UP06 UP07 UP08			
0057	00010.000	EA		0800006-0002	IC, 3341ADC, POS MEM 64-WORD X 4 BIT	FCD - 3341ADC		
0057A					UN01 UN02 UN03 UN04 UN05			
0057B					UN06 UN07 UN08 UN09 UN10			
0058	00001.000	EA		0972159-7265	NETWORK, SN74265N			
0058A					UN13			
0059	00001.000	EA		0222222-7438	NETWORK SN7438N			
0059A					UP11			
0060	00001.000	EA		0219402-7175	NETWORK SN74S175N			
0060A					UR08			
0061	00004.000	EA		0219401-1108	NETWORK INTERFACE MIC SN75108N			
0061A					UR11 UR12 UR15 US11			
0062	00002.000	EA		0219401-1110	NETWORK SN75110N	-SN75110N		
0062A					US13 US14			
0065	00002.000	EA		0972037-1910	NETWORK, RES 91 CHM 24 16PIN BELEMENT BEC - 898-3-R91			
0065A					UT09 UT10			
0066	00002.000	EA		0972141-0034	NETWORK, RES. 510 GHM 2 x 14 PIN DIP BEC - 899-1-R510			
0066A					UD03 UD04			
DRAFTSMAN: DATE: C/D DRAFTSMAN: DATE: DESIGN ENGINEER: DATE: TITLE: AUTO INSERTED PARTS LIST FOR 940065-0004 APP'D: MFG: DATE: APP'D PROJECT ENGINEER: DATE: RELEASED: DATE: PROJECT NO: PART NUMBER: REV: LM 0940065-5004 R								

TEXAS INSTRUMENTS INCORPORATED		DATE	02/13/80	LIST OF MATERIAL	PAGE	7 of	PART NUMBER	REV
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER	LM 0940065-5004 R	
0108	00002.000	EA		0972784-0002	NETWORK SN74LS14N			
0108A					US03 UC04			
0113	00001.000	EA		0219402-7402	NETWORK SN74S02N	TI -SN74S02N		
0113A					UA13			
DRAFTSMAN: DATE: C/D DRAFTSMAN: DATE: DESIGN ENGINEER: DATE: TITLE: AUTO INSERTED PARTS LIST FOR 940065-0004 APP'D: MFG: DATE: APP'D PROJECT ENGINEER: DATE: RELEASED: DATE: PROJECT NO: PART NUMBER: REV: LM 0940065-5004 R								



NOTES: UNLESS OTHERWISE SPECIFIED

1. ALL DEVICE TYPES ARE PREFIXED WITH SN74.
2. GROUND IS APPLIED TO PIN 7 OF ALL 14-PIN IC'S, PIN 8 OF ALL 16-PIN IC'S, PIN 14 OF ALL 28-PIN IC'S, AND PIN 20 OF ALL 40-PIN IC'S.
3. VCC IS APPLIED TO PIN 14 OF ALL 14-PIN IC'S, PIN 16 OF ALL 16-PIN IC'S, PIN 28 OF ALL 28-PIN IC'S, AND PIN 40 OF ALL 40-PIN IC'S.
4. DEVICE TYPE, PIN NUMBERS, AND LOCATION OF IC IS SHOWN AS FOLLOWS:



00 AND 04 = DEVICE TYPE  
 4, 5, AND 6 = PIN NUMBERS  
 BB06 AND C10 = LOCATION; LETTERS DENOTE ROW, DIGITS DENOTE COLUMN.  
 IC IS LOCATED AT THE INTERSECTION OF ROW AND COLUMN.

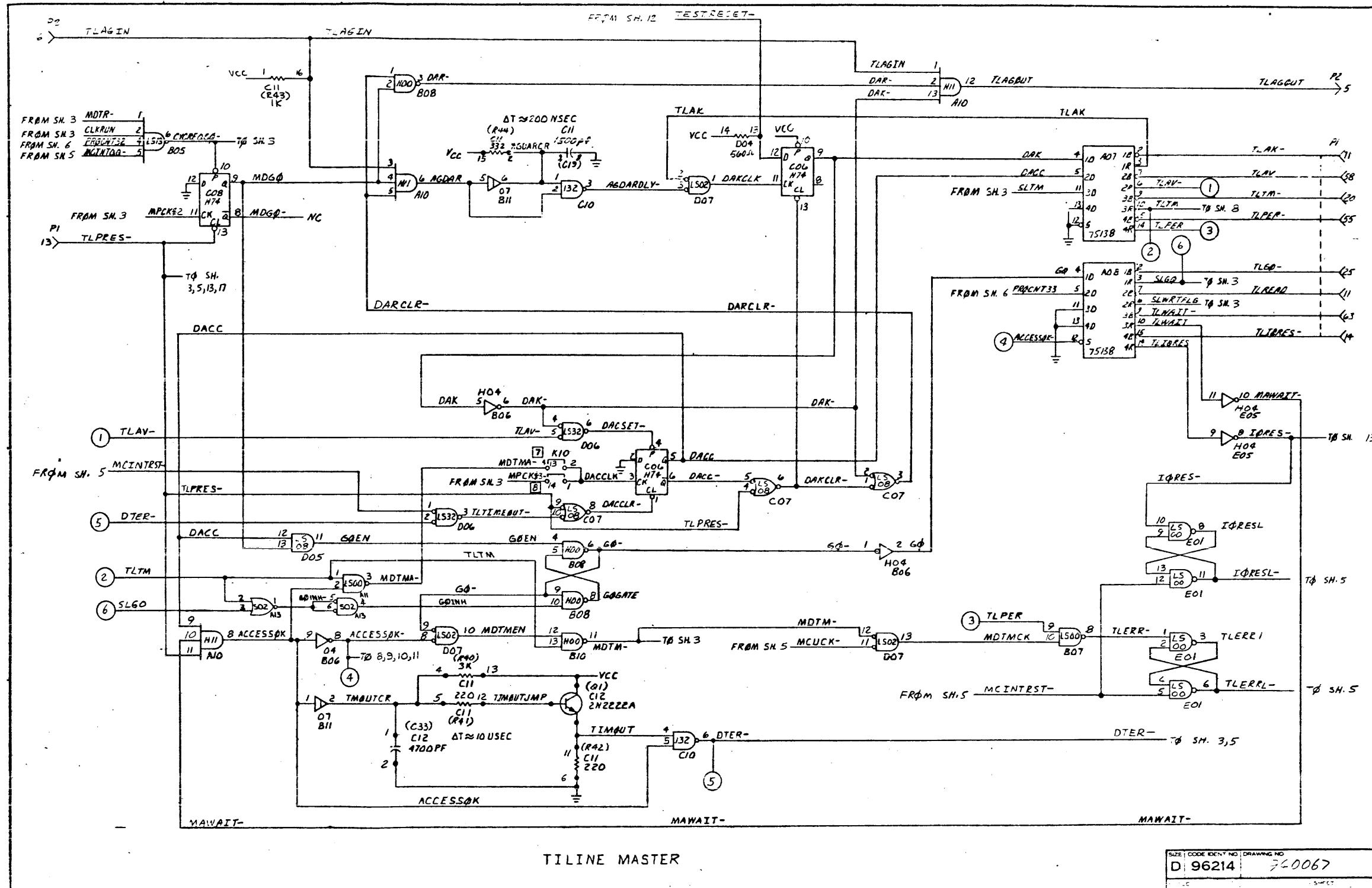
5. RESISTORS ARE 1/4 WATT, 5%.
6. RESISTORS AT LOCATION T09 AND T10 ARE 10%.
7. FOR 99019 APPLY JUMPERS ACROSS DOI-4 TO DOI-13 AND DOI-5 TO DOI-12.
8. FOR 99010 APPLY JUMPERS ACROSS DOI-6 TO DOI-11 AND DOI-7 TO DOI-10.
9. THIS LOCATION CAN BE USED FOR TRIMMER RESISTOR TO ADJUST CLOCK FREQUENCY.
10. CAN BE USED AS MSB STRØBE FOR STACKED 74S471 FROM.

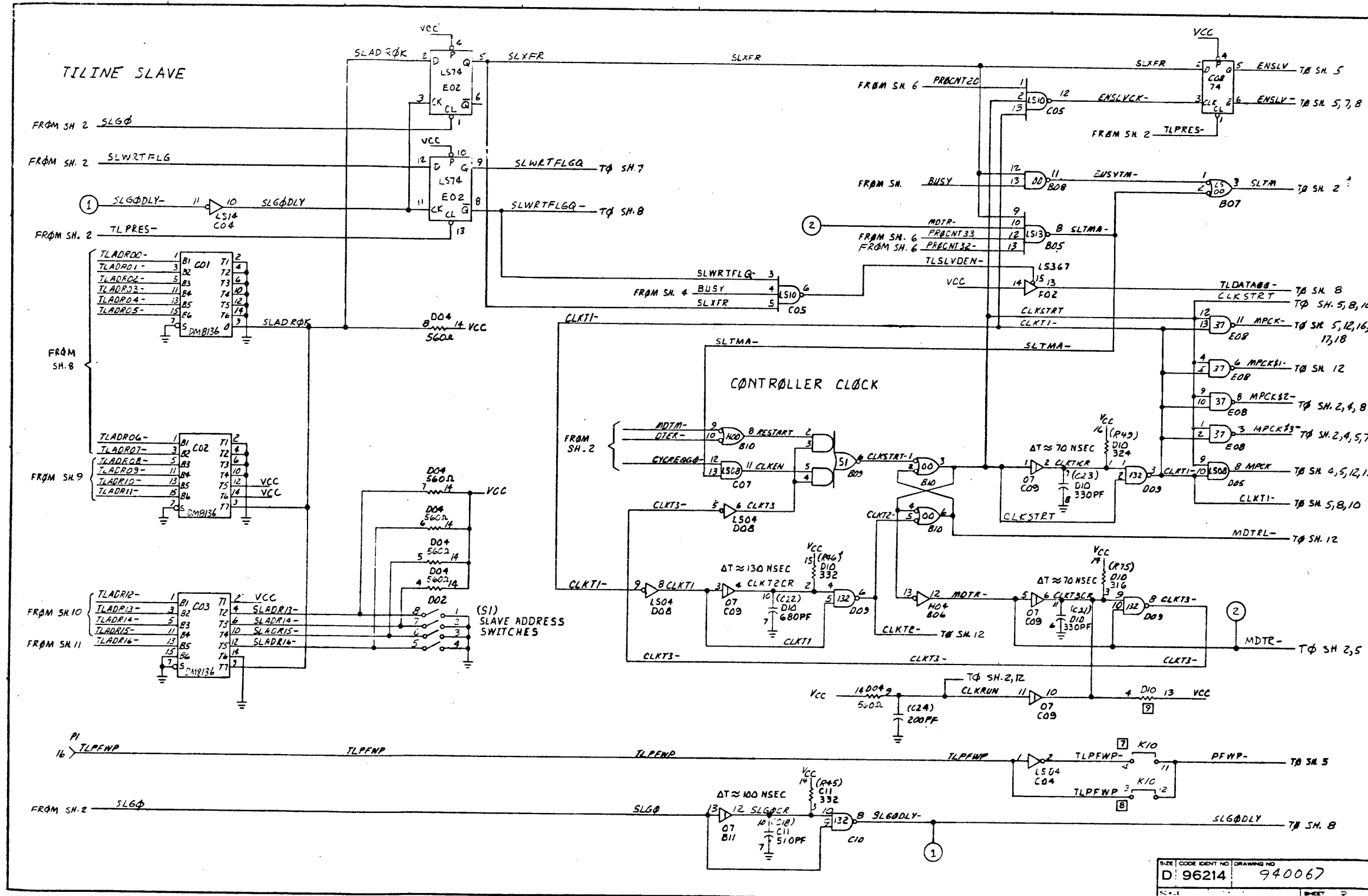
REVISIONS			
ZONE	LTR	DESCRIPTION	DATE
A		CM#2F334(10) ST. Dallas	5-16-77
B		CM#2F327(10) ST. Dallas	5-16-77
C		CM#41362(10) ST. Dallas	11-6-77
D		CM#456187(10) ST. Dallas	5-26-79

REV STATUS	REV	C	B	A	...	D
OF SHEETS	SH	1	2	3	4	5

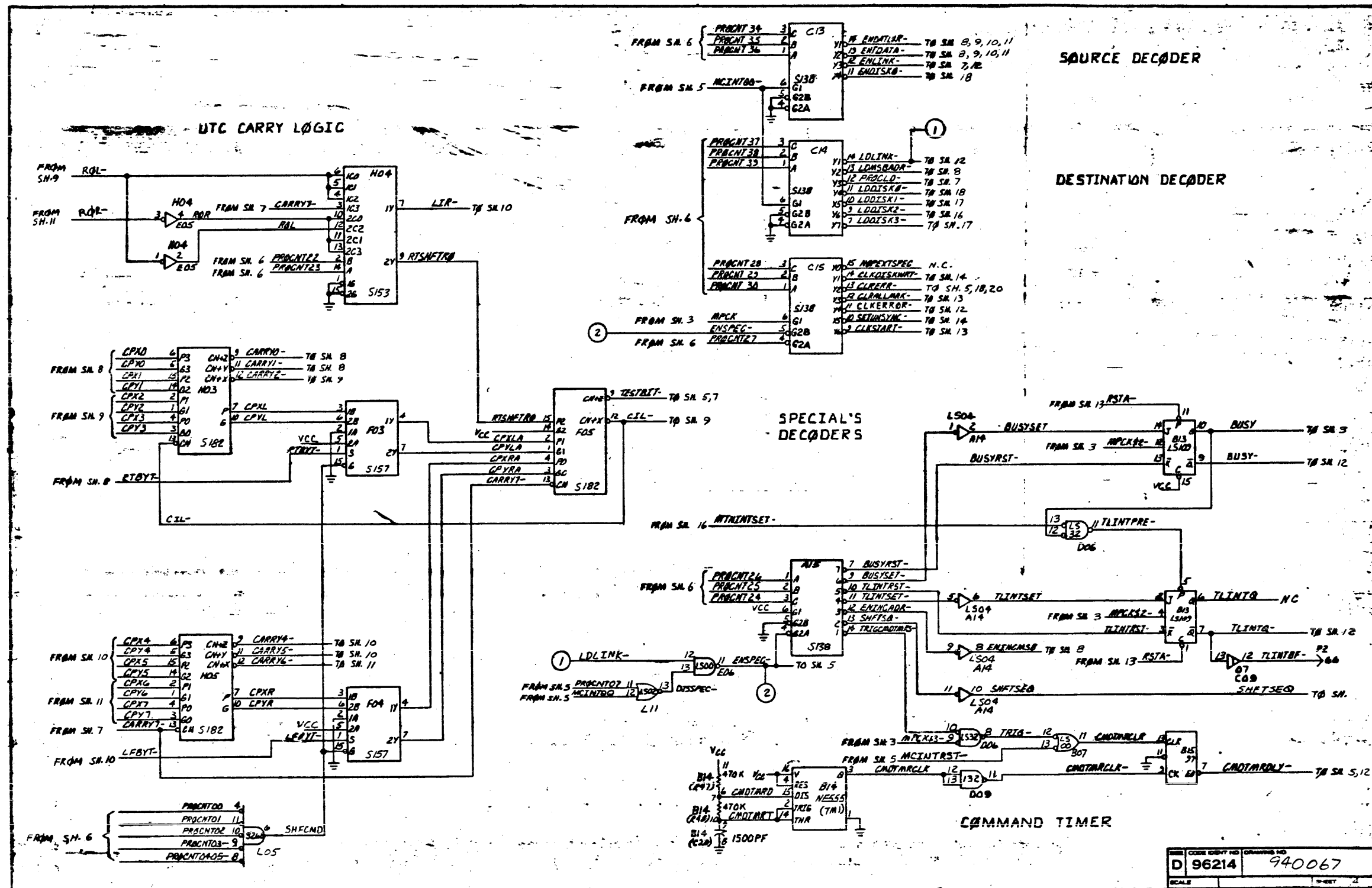
QTY	REQD	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROUREMENT SPECIFICATION
PARTS LIST						
UNLESS OTHERWISE SPECIFIED				UNLESS OTHERWISE SPECIFIED		
REMOVE ALL BURRS AND SHARP EDGES				DIMENSIONS ARE IN INCHES		
CONCENTRICITY MACHINED DIAMETERS .010 FIB				TOLERANCES		
DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING				ANGLES ±1°		
IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY				3 PLACE DECIMALS ±.010		
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100				2 PLACE DECIMALS ±.02		
HOLE TOLERANCE				MATERIAL		
.013 ±.004				APPROX 1-18-77		
.125 ±.001				DATE		
.250 ±.001				1-18-77		
.500 ±.001				ENGR		
1.000 ±.001				DATE		
2.000 ±.001				1-18-77		
NEXT ASSY USED ON				APPROX 1-18-77		
APPLICATION				APPROX 1-18-77		
CONTR NO				CONTR NO		
DESIGN ACTIVITY RELEASE				CONTR NO		
D 96214				CONTR NO		
DRAWING NO				CONTR NO		
940067				CONTR NO		
SCALE: 1:1				CONTR NO		
SHEET 1 OF 24				CONTR NO		

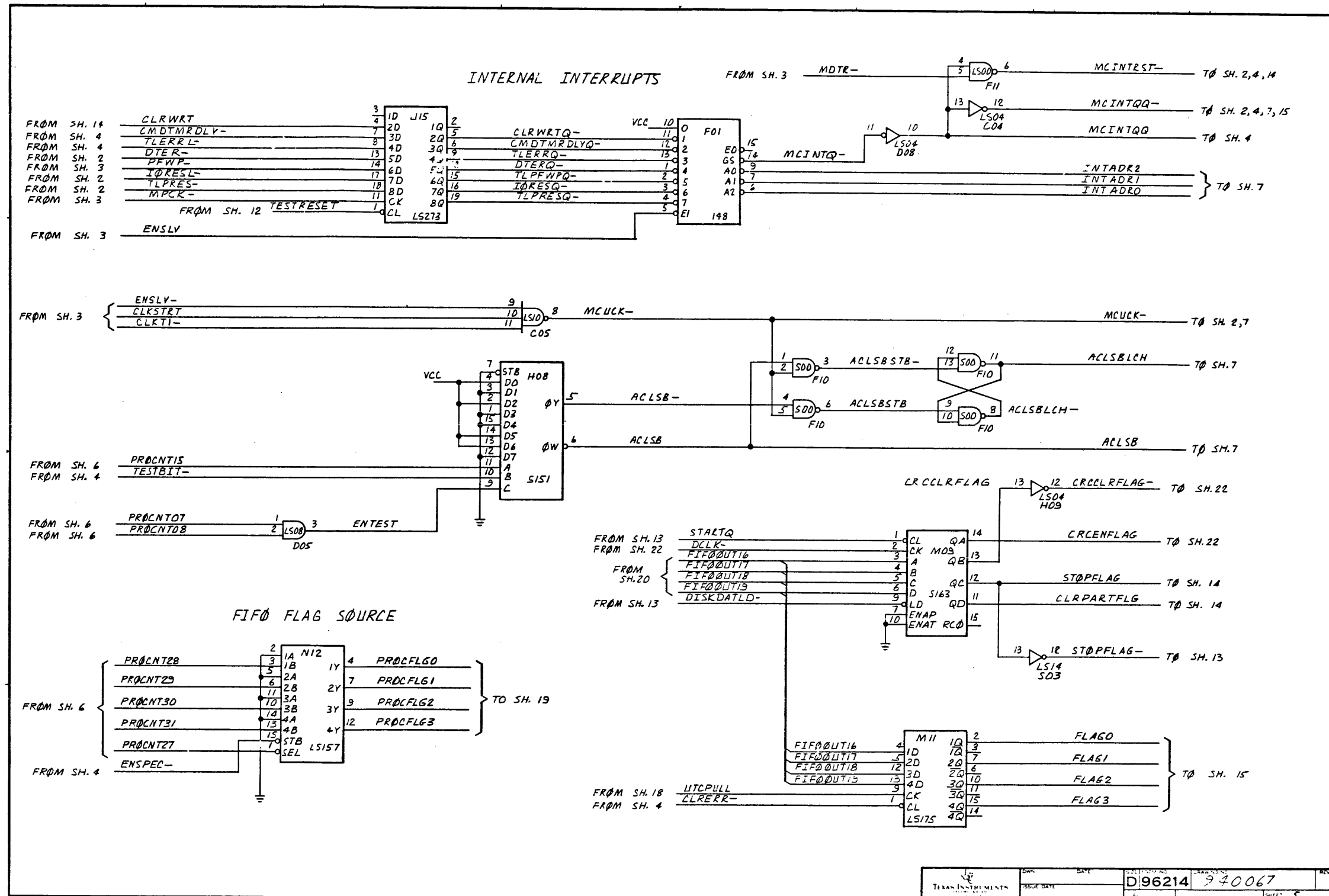




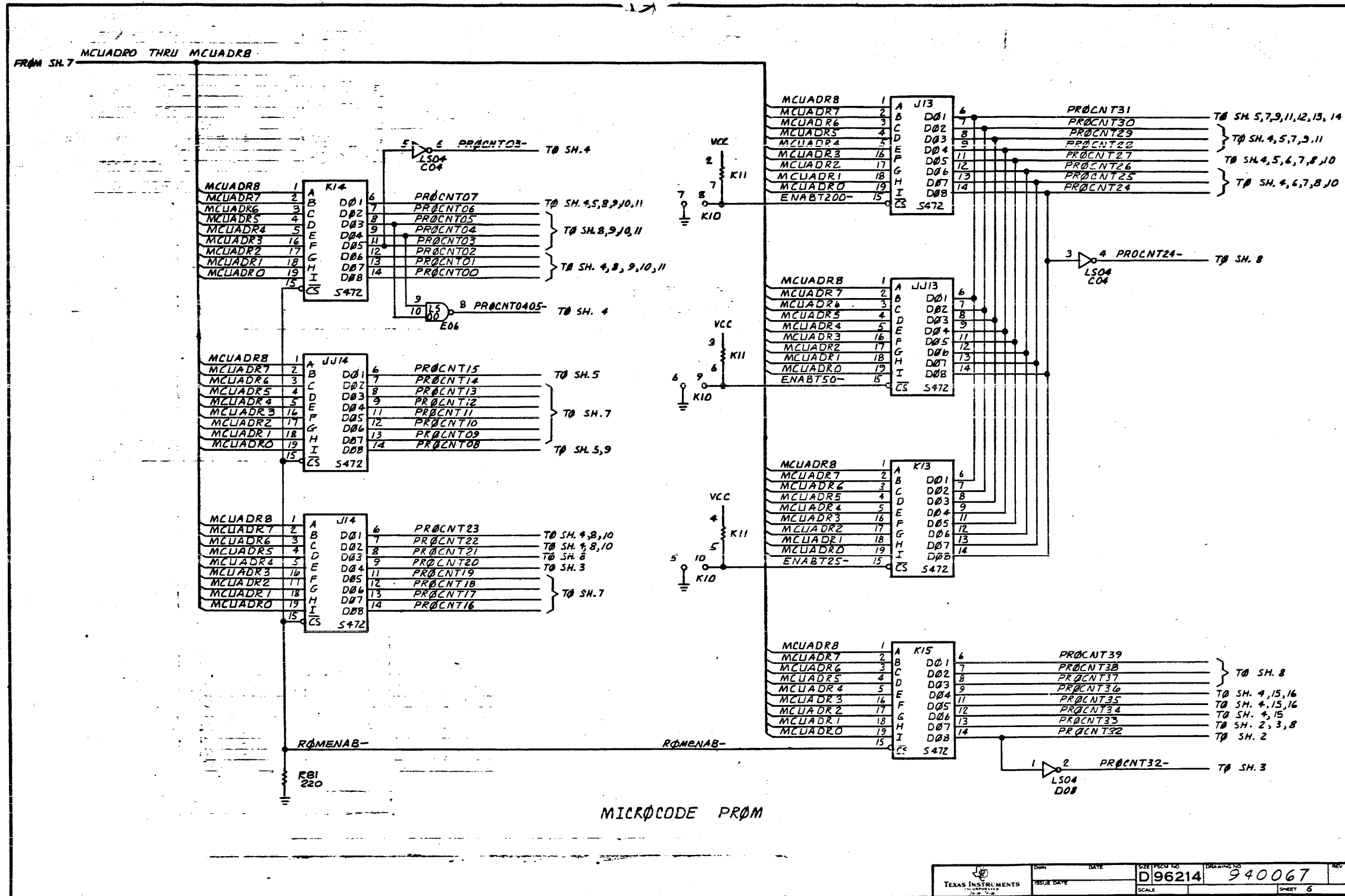


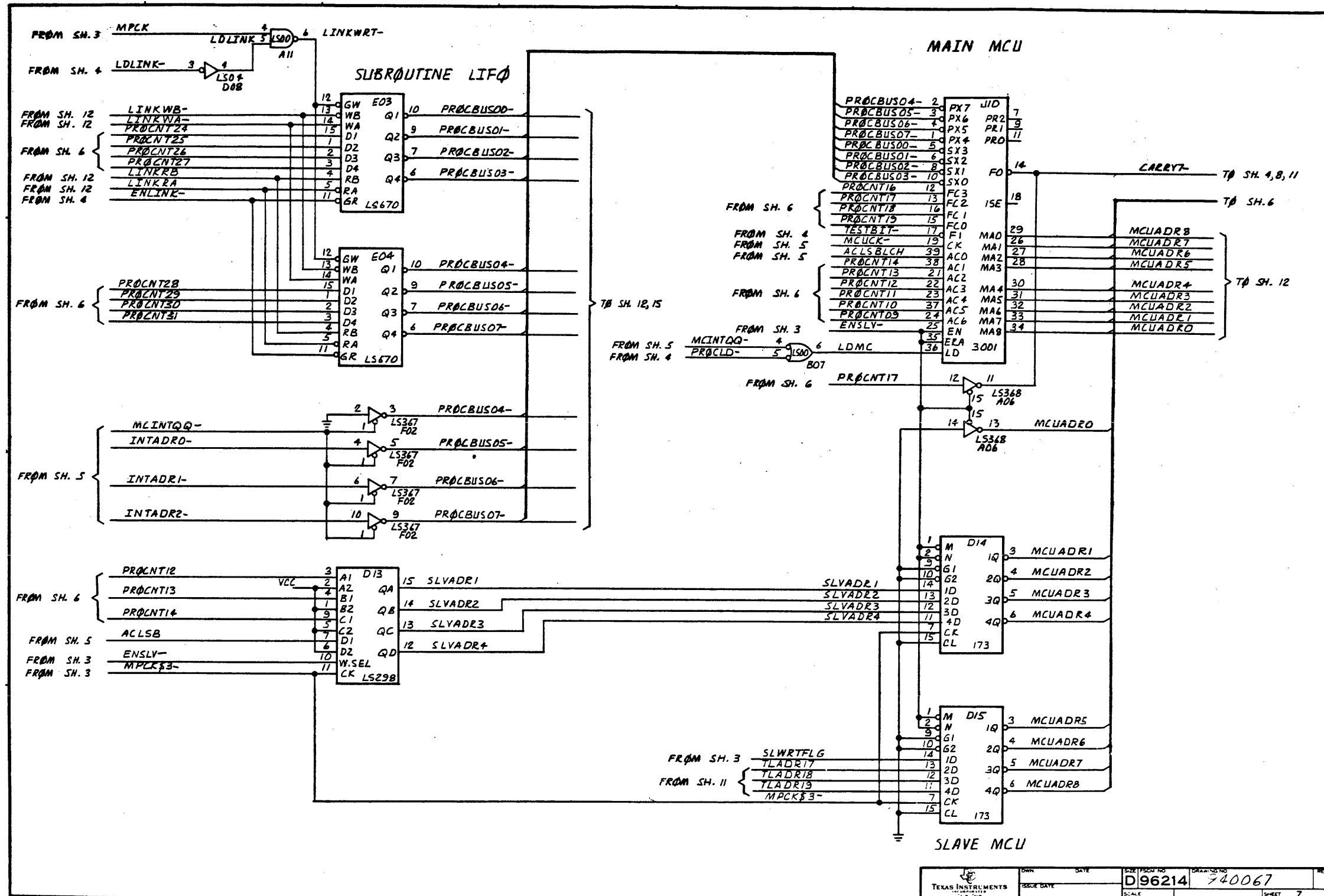
SIZE	CODE IDENT NO	DRAWING NO
D	96214	940067
SHEET		



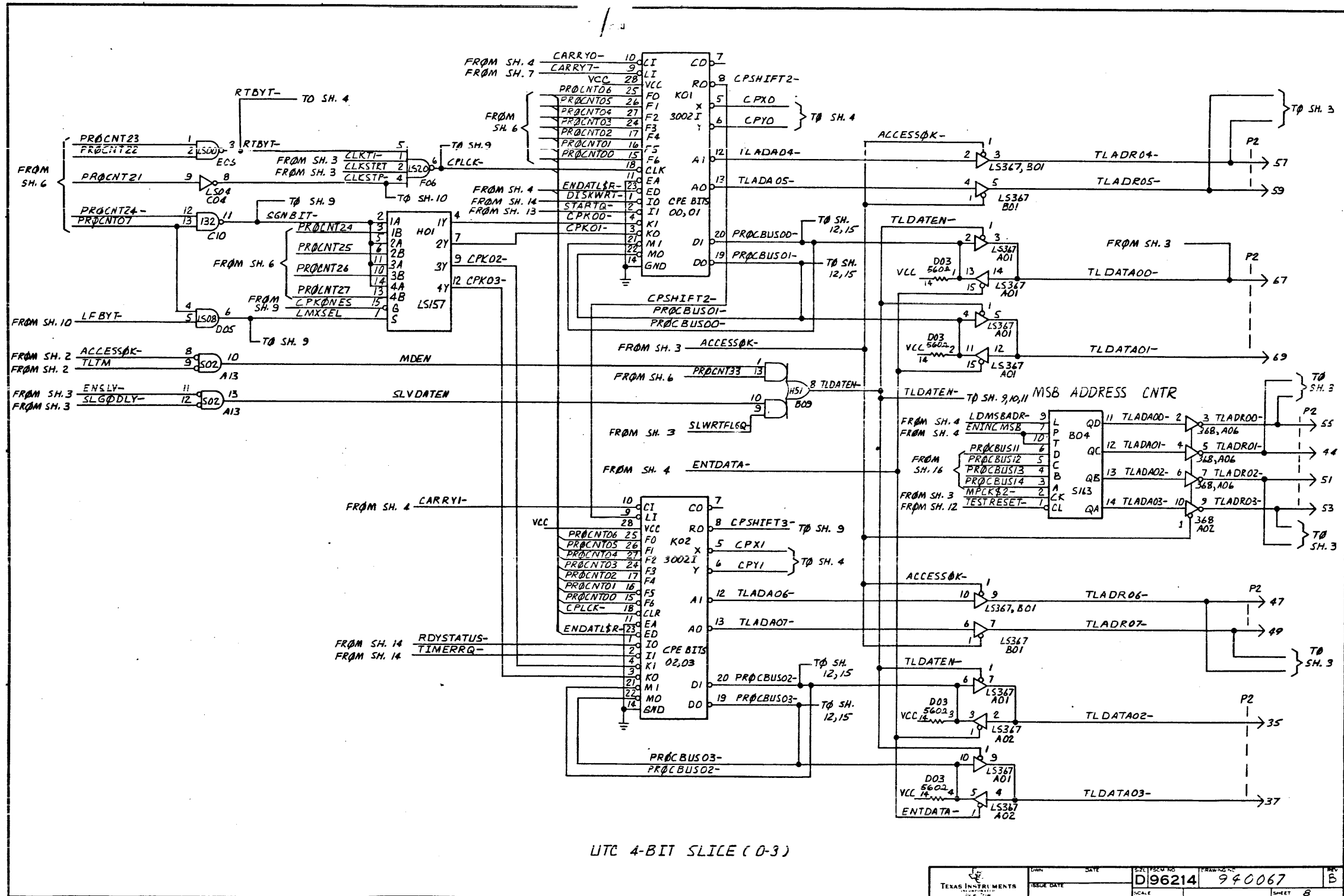


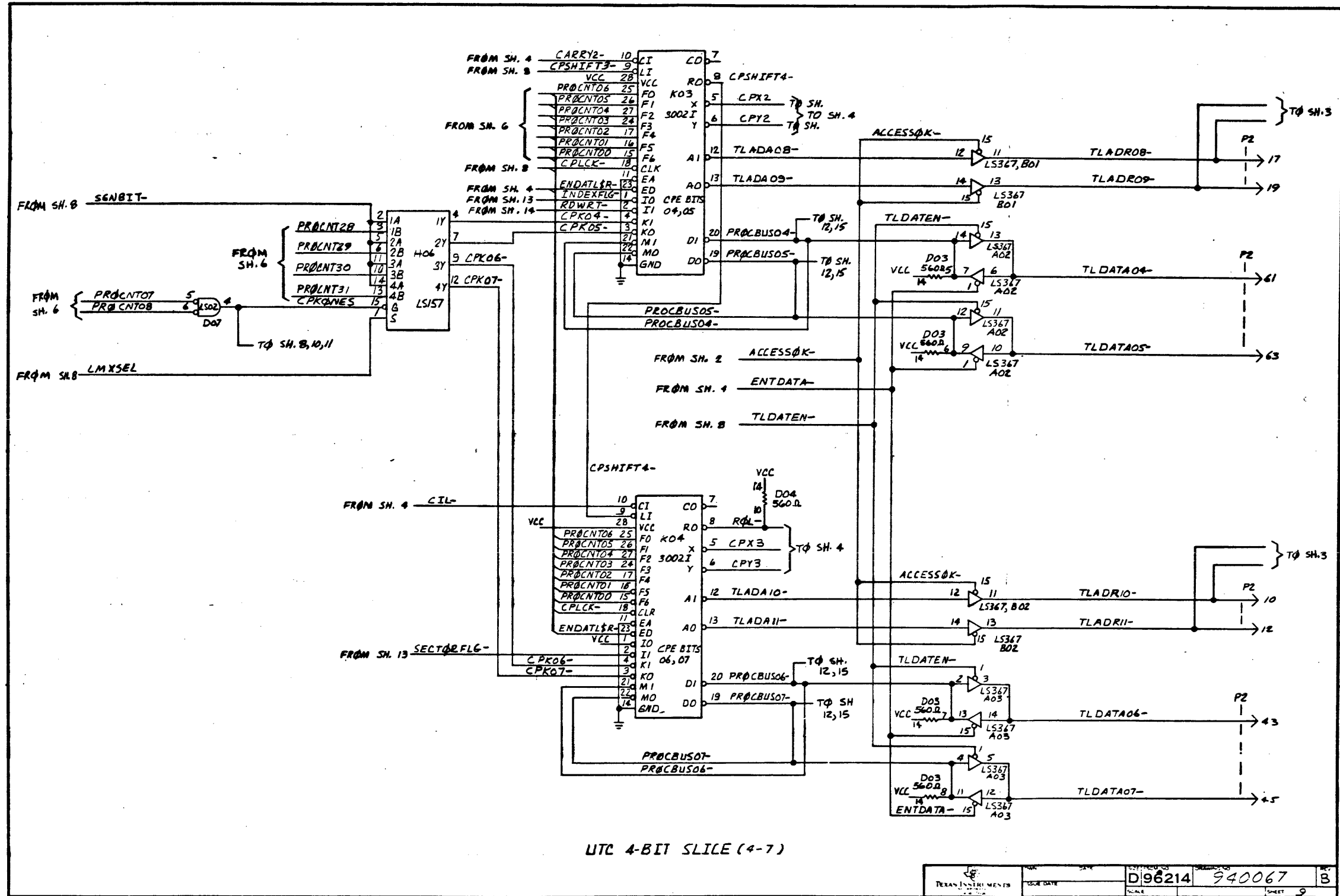
DATE	ISSUE	NO.	REV.
		D96214	740067
ISSUE DATE			





DESIGN NO.	DATE	SIZE (P/S) NO.	DRAWING NO.	REV.
ISSUE DATE		D 96214	340067	
SCALE				SHEET 7

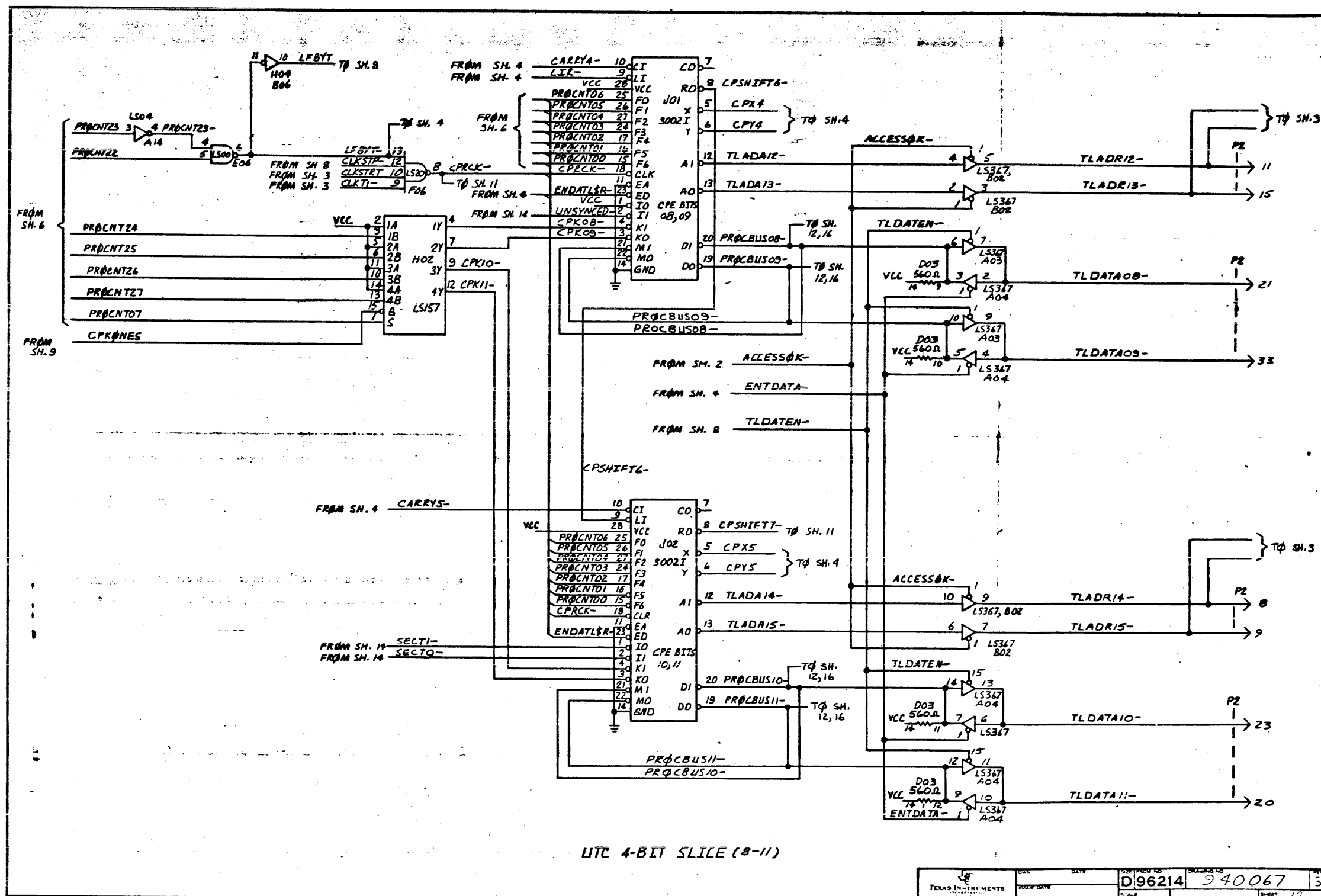




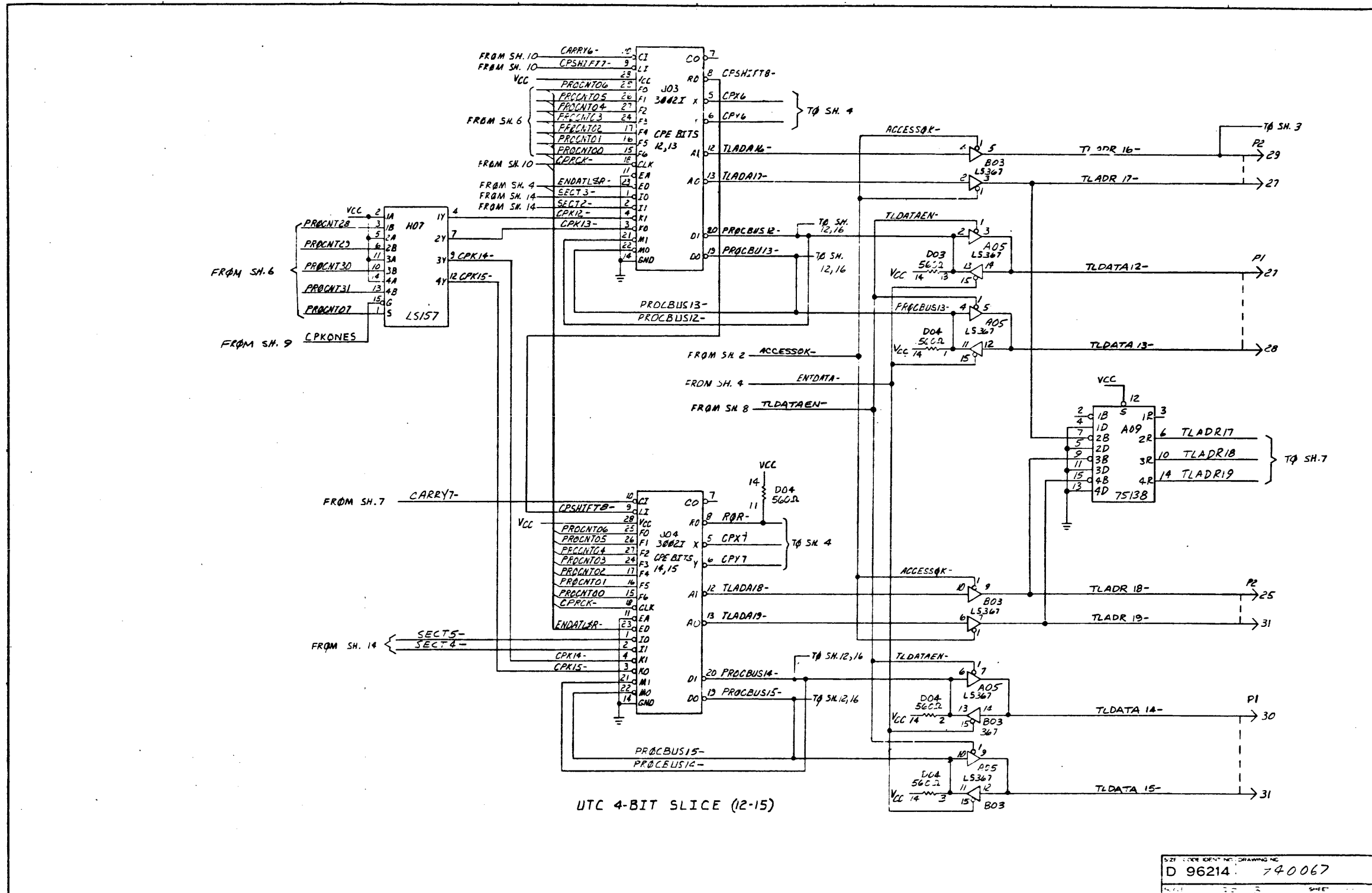
LTC 4-BIT SLICE (4-7)

DESIGNED BY	DATE	REVISED BY	DATE	REVISED BY	DATE
TEXAS INSTRUMENTS		D196214	940067		B
SCALE	SHEET	9			

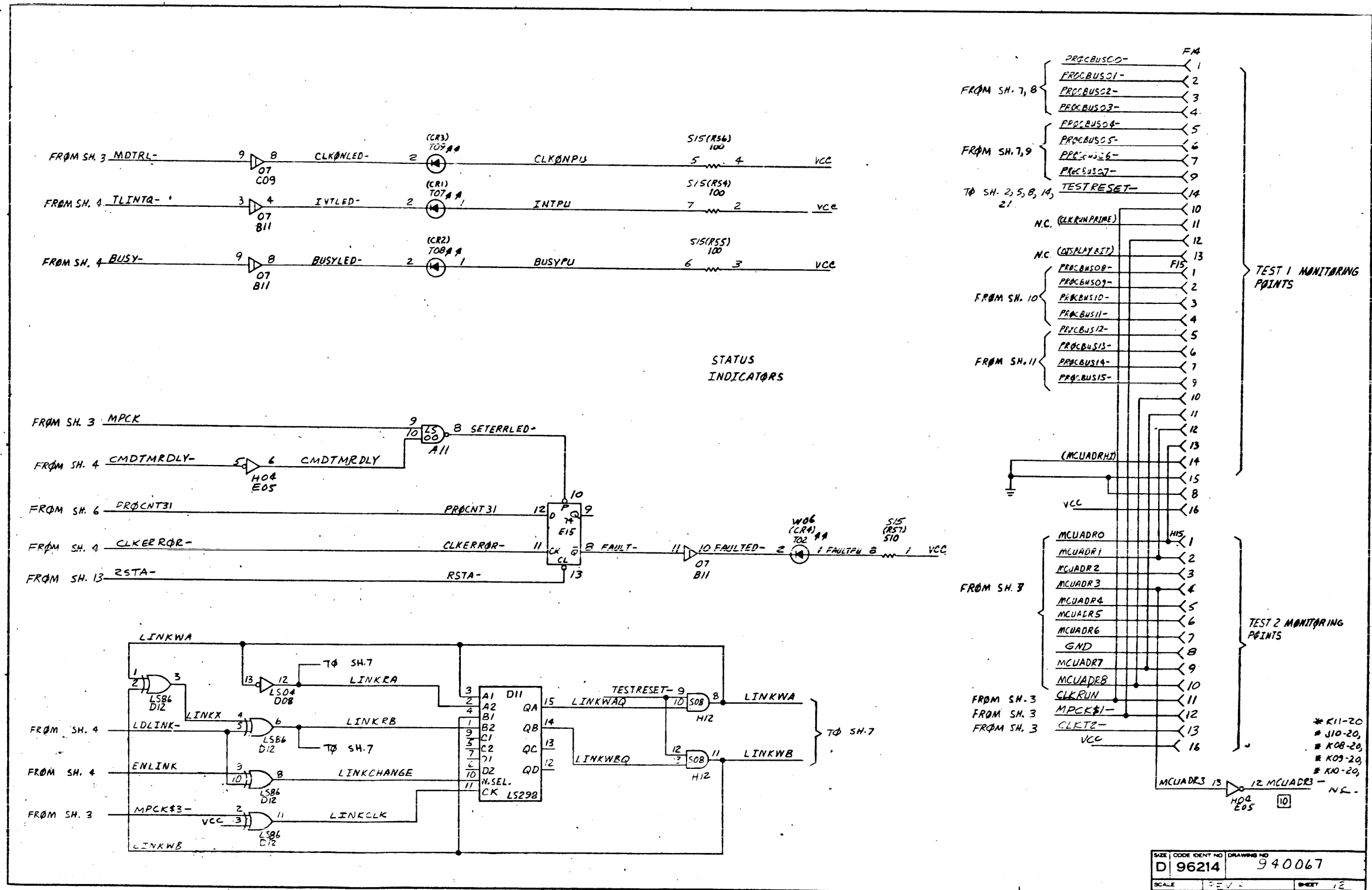




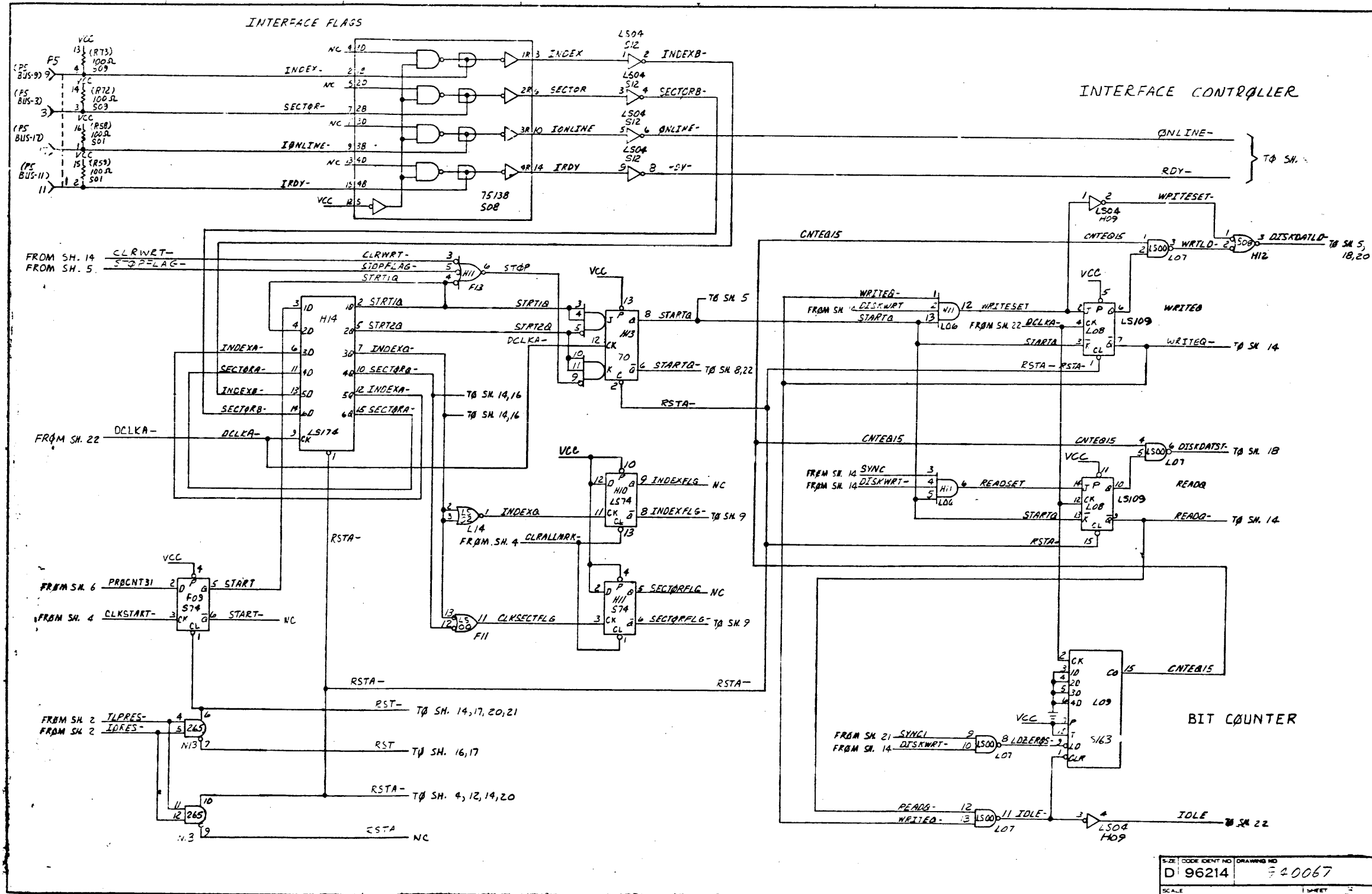
DESIGN NO.	DATE	REV.	BY
D96214		3	
PROJECT NO.	DATE	REV.	BY
940067			
SCALE		SHEET 15	



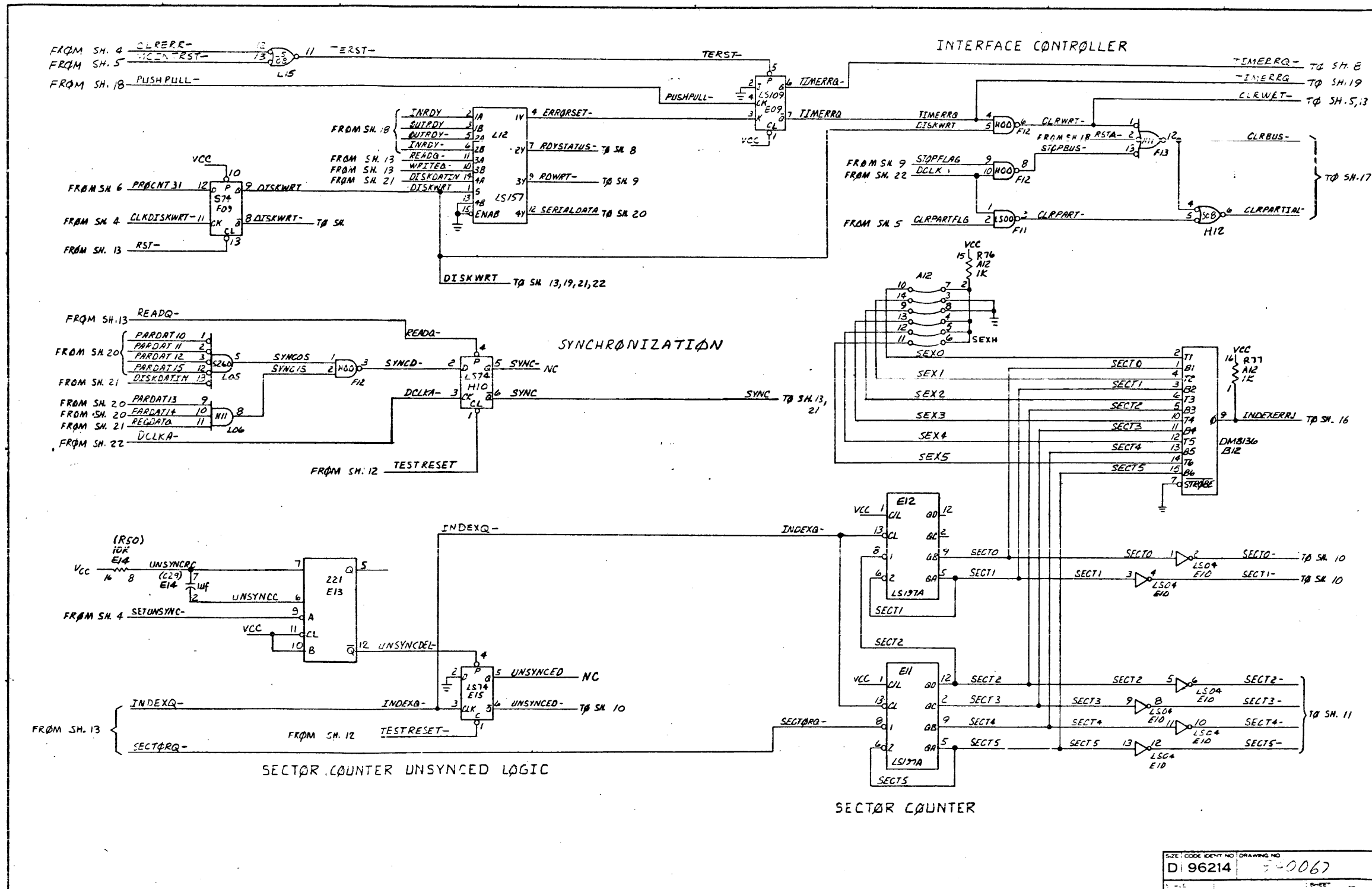
SIZE: 11.5x17.5 IN. DRAWING NO. D 96214 740067



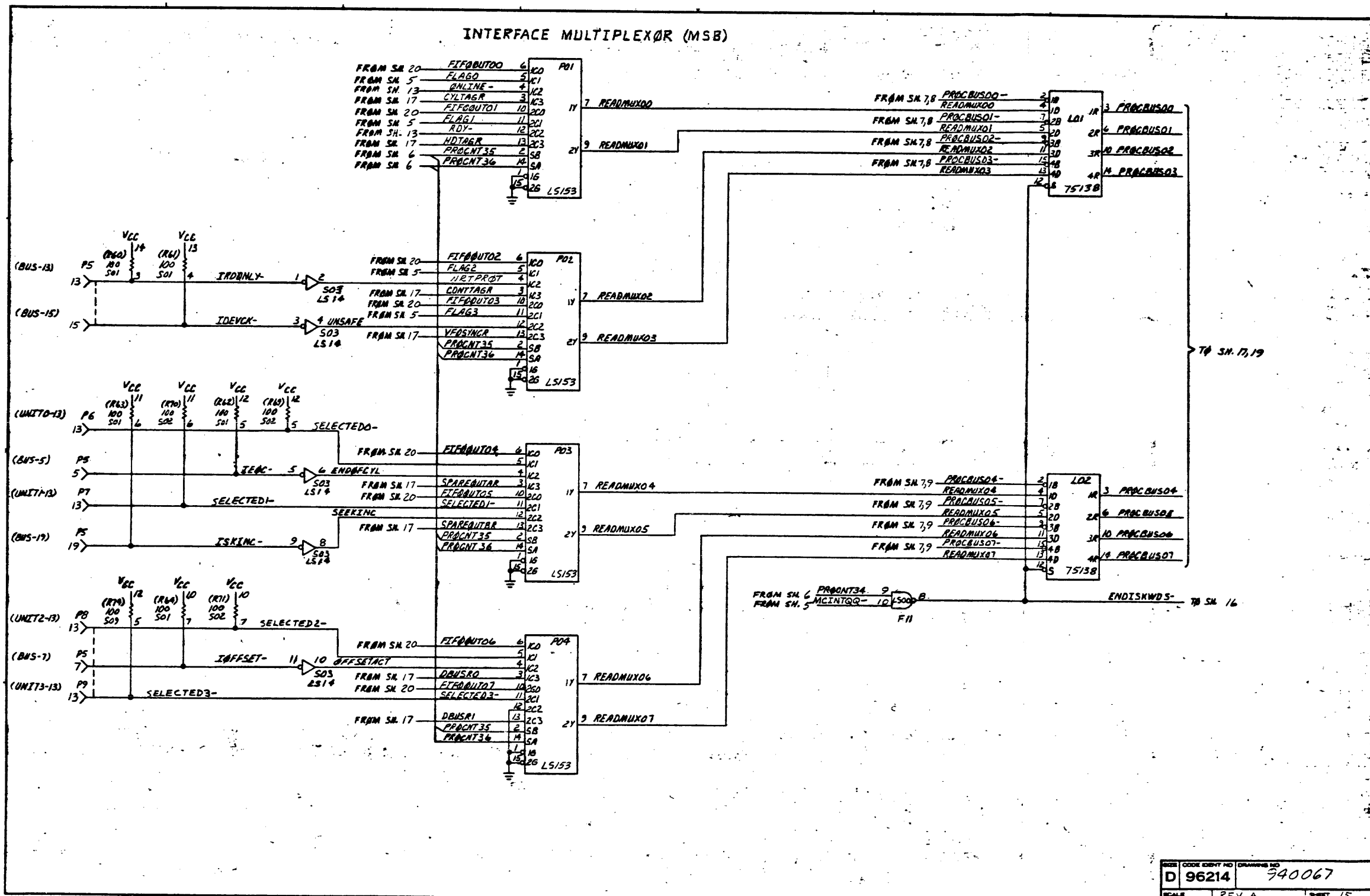
SIZE	CODE IDENT NO	DRAWING NO
D	96214	940067
SCALE	REV	SHEET
		12



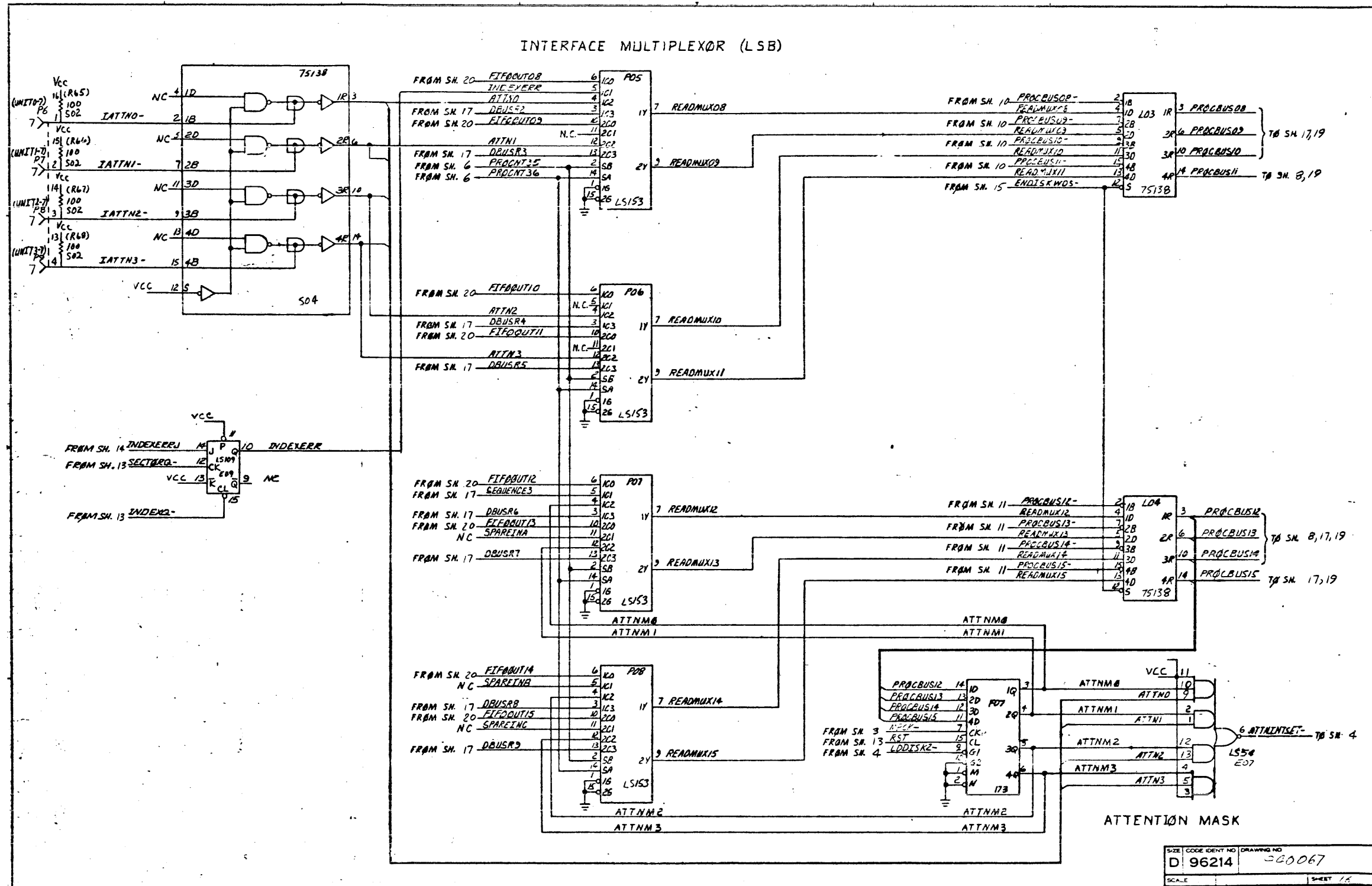
SIZE	CODE IDENT NO	DRAWING NO
D	96214	40067
SCALE	SHEET	

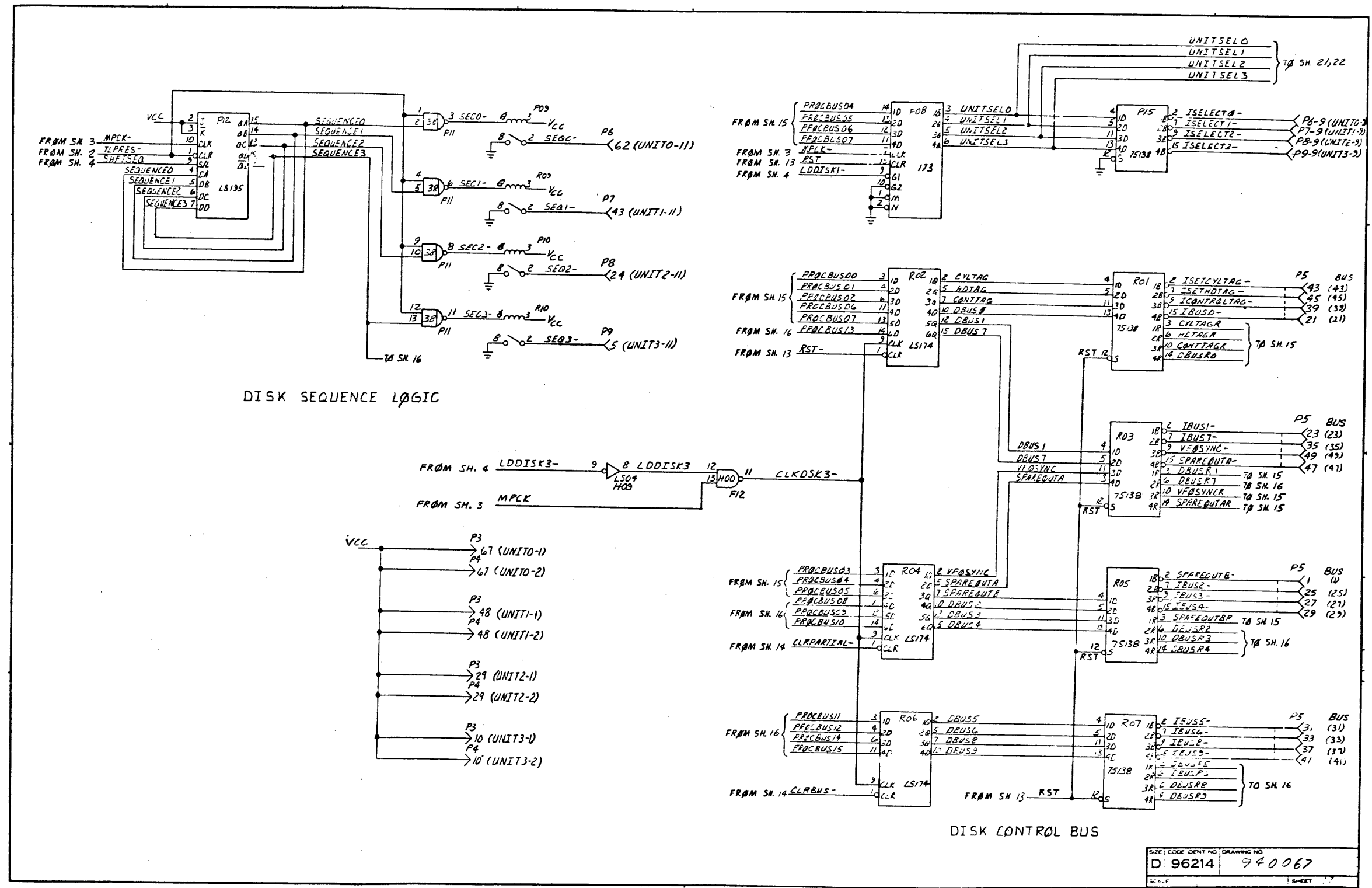


INTERFACE MULTIPLEXOR (MSB)



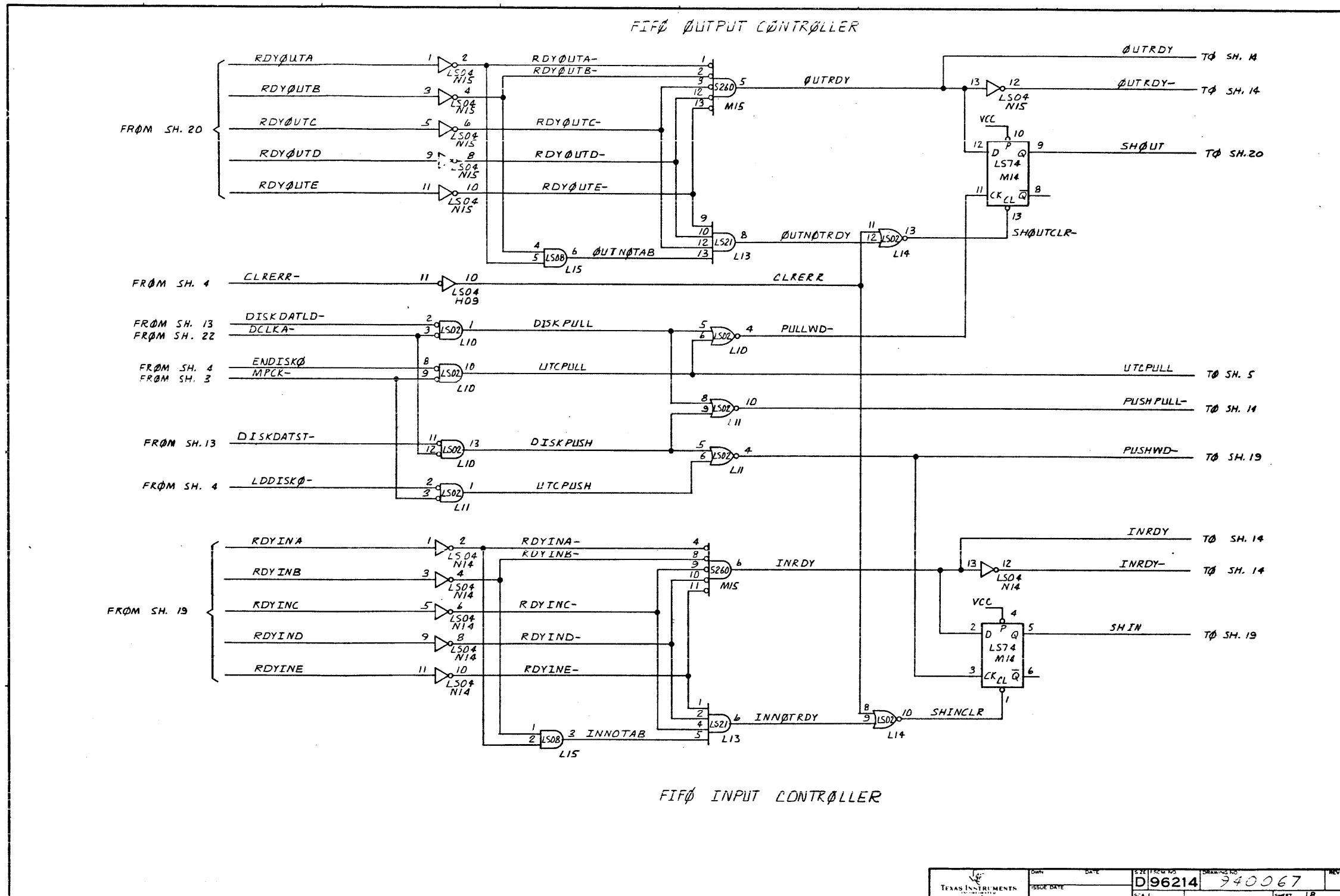
DATE	CODE IDENT NO	DRAWING NO
D	96214	940067
SCALE	REV A	SHEET 15

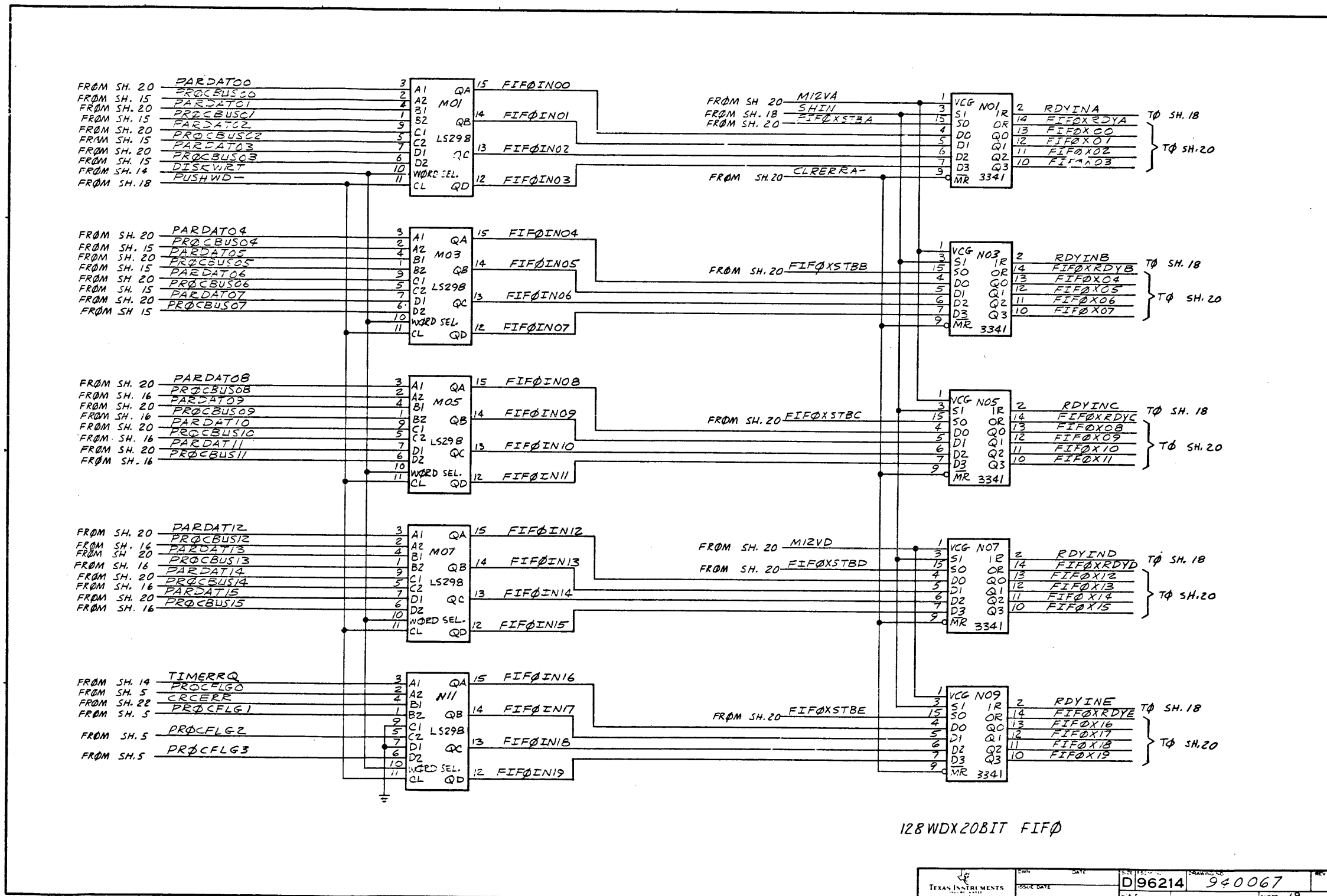




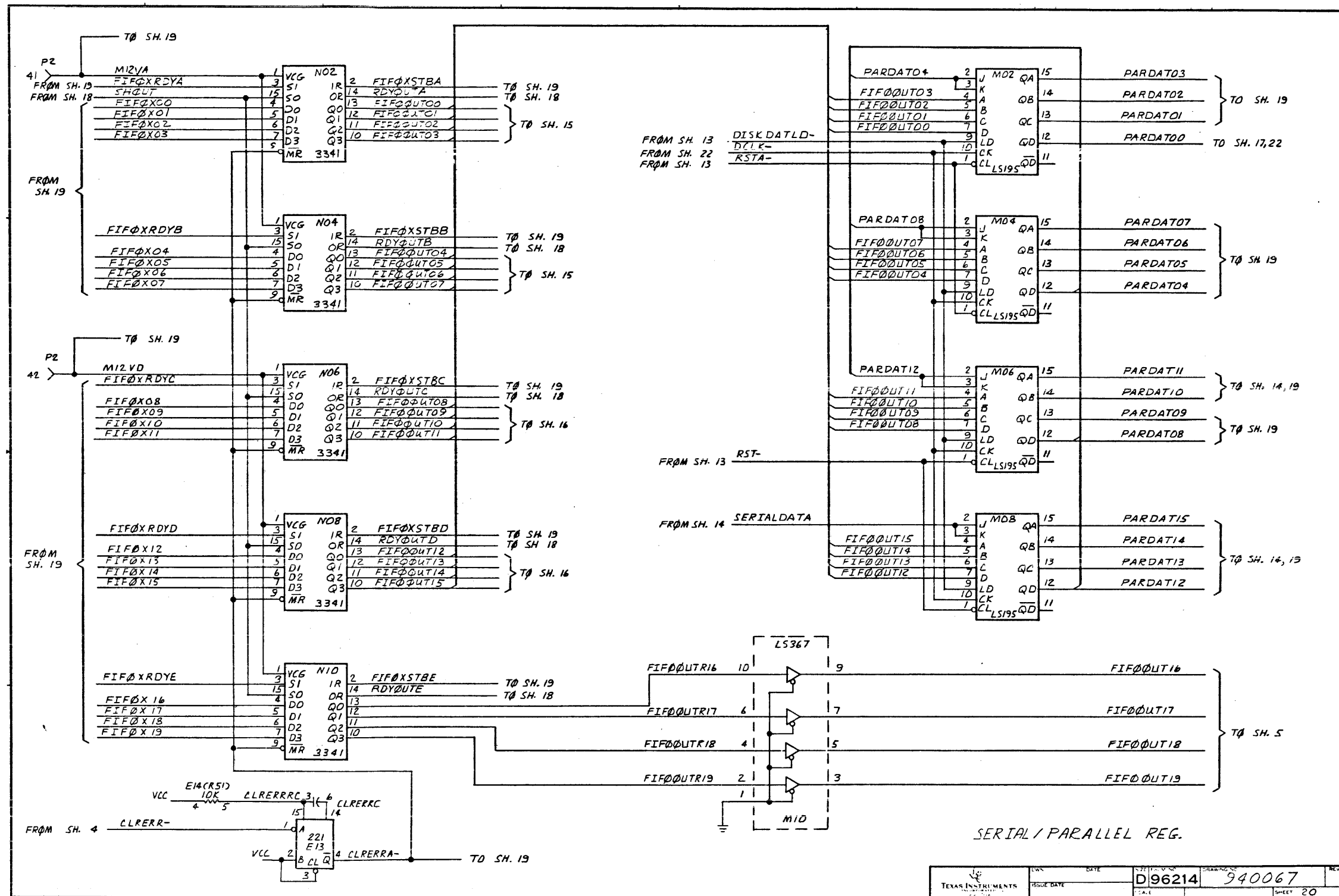
SIZE	CODE IDENT NO	DRAWING NO
D	96214	940067
SCALE	SHEET	

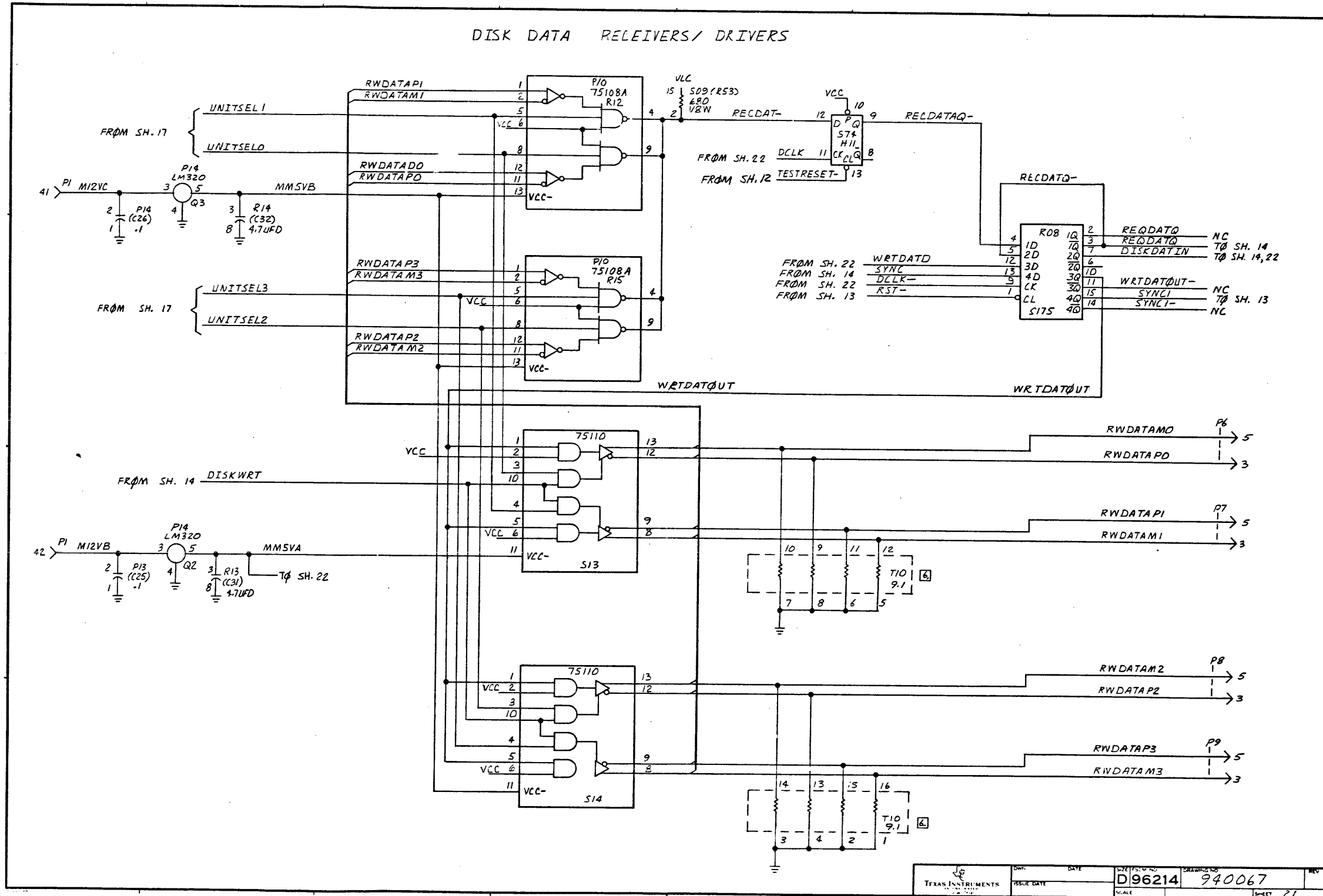




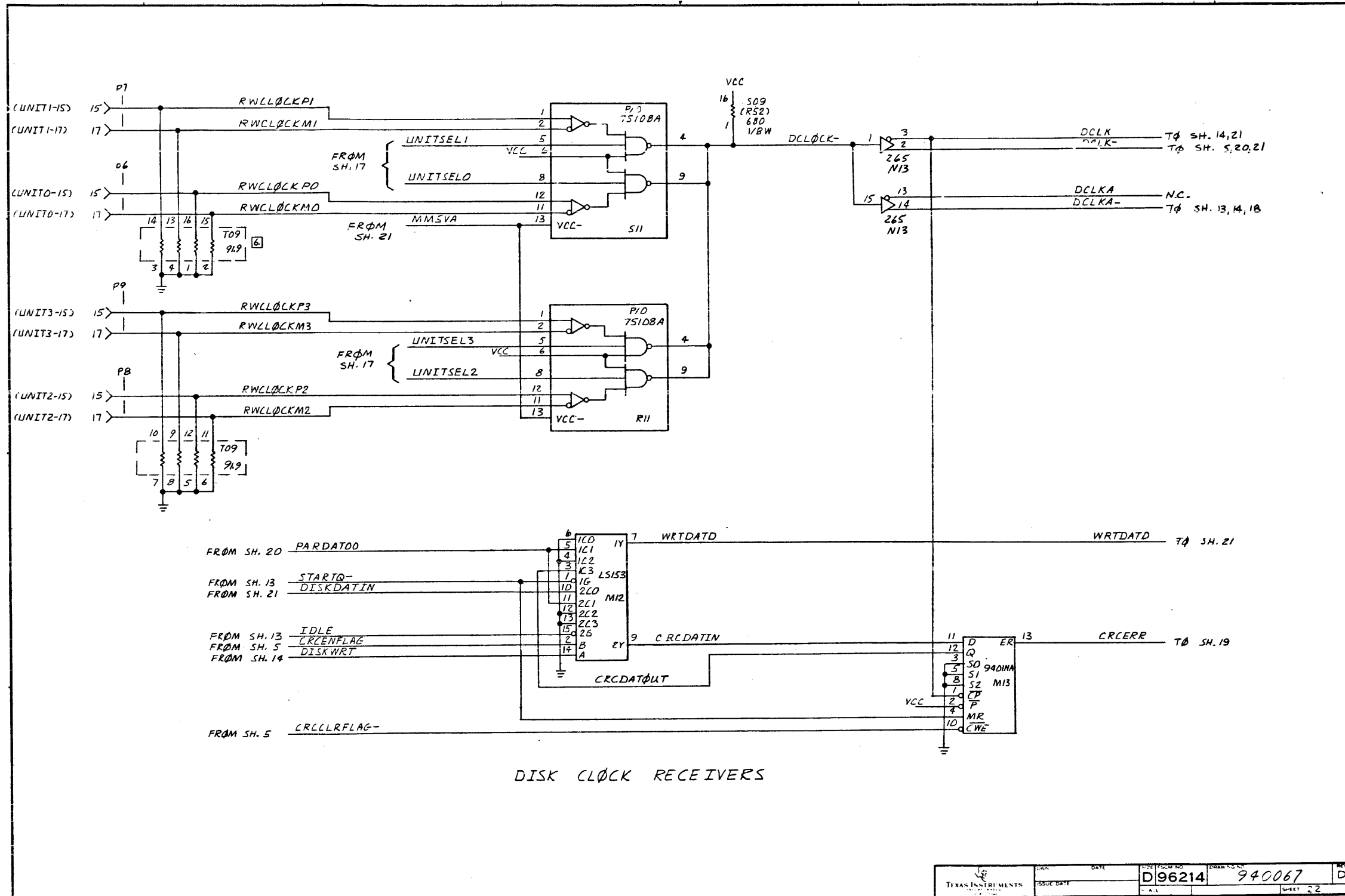


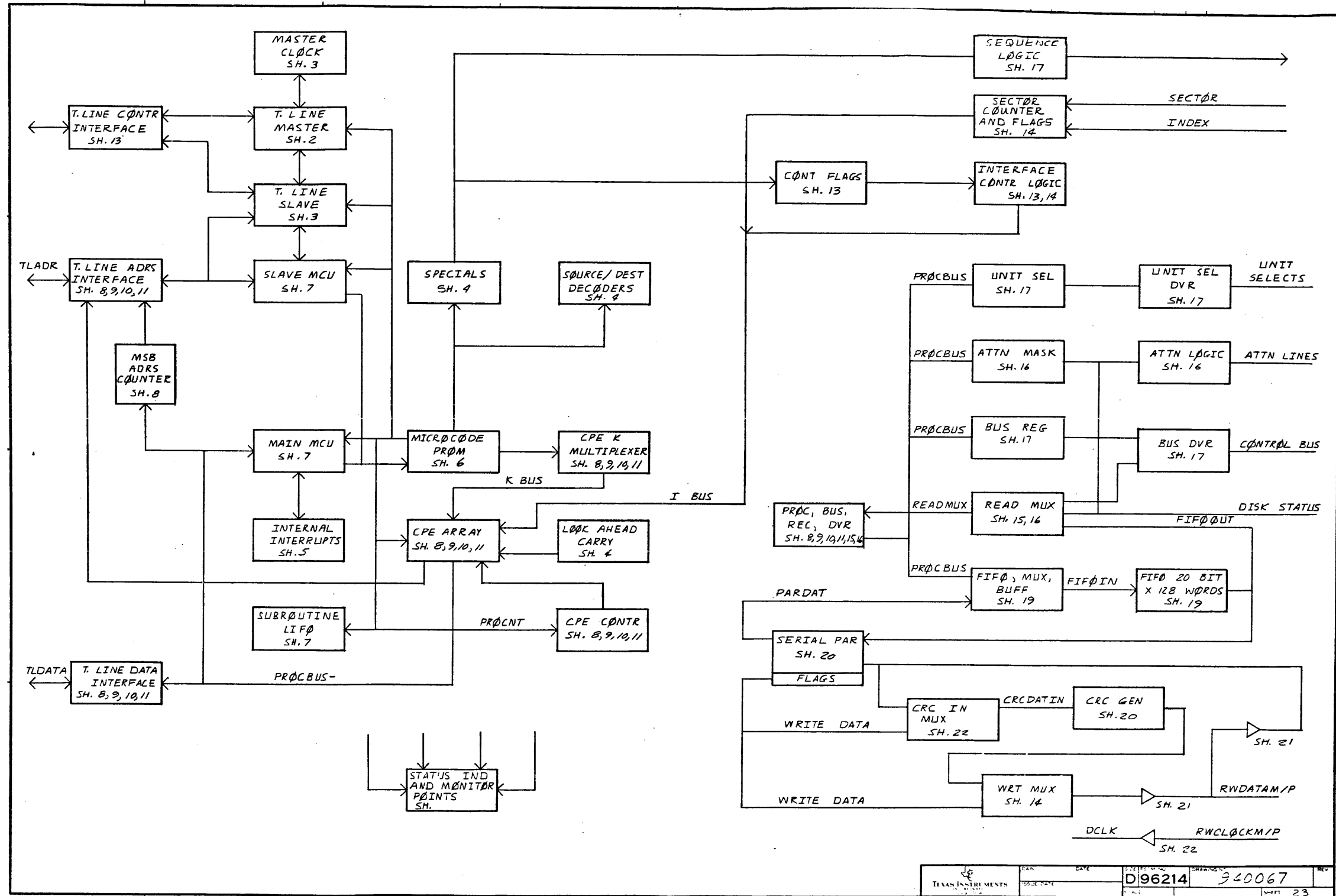
TEXAS INSTRUMENTS	DATE	D 96214	DRAWING NO. 940067	REV
	ISSUE DATE			
				SHEET 19





 TEXAS INSTRUMENTS <small>DAVIDSON ROAD MESA, TEXAS 75001</small>	DATE: _____ ISSUE DATE: _____	SIZE (FIG. NO.): <b>D96214</b>	DRAWING NO.: <b>940067</b>	REV: _____ SHEET: <b>21</b>
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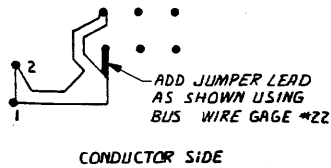




DATE	REV	DATE	REV
		096214	340067
TXAS INSTRUMENTS		REV 23	

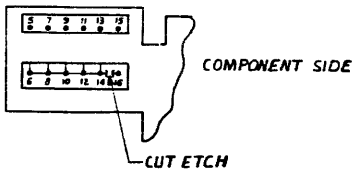


NOTES: CONT  
5. B. ADD JUMPER LEAD AS SHOWN BELOW:  
(CONT)



CONDUCTOR SIDE

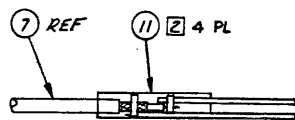
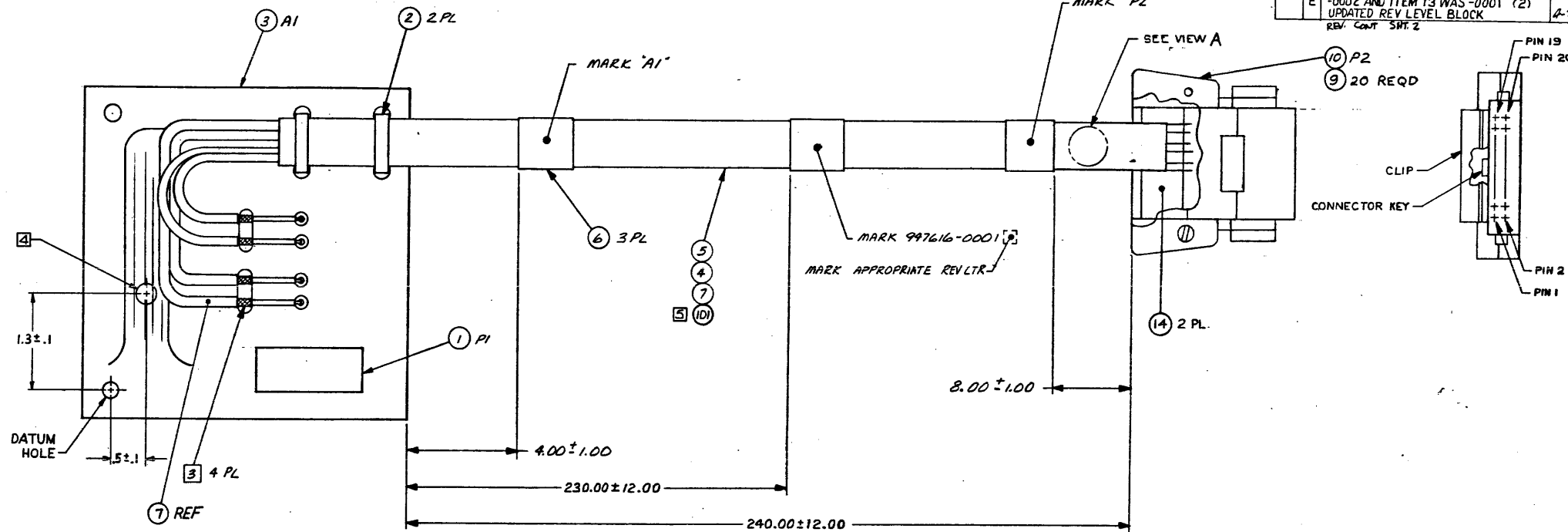
NOTES: CONT  
5. REWORK PROCEDURE FOR PWB 947614  
REV A ONLY  
A. CUT ETCH AS SHOWN BELOW:



NOTES:

1. ~~WIRE MUST BE RIGID TO CONNECTOR ITEM 10~~
2. TERMINATE SOLDER SLEEVE ITEM 11 A MINIMUM OF 3.00 INCHES FROM TOP OF CONNECTOR ITEM 10
3. SOLDER SHIELD TO PAD PER PROCESS 1
4. APPLY FOR ASSY WHICH USE PWB (947614) REV \* ONLY. DRILL A .25 DIA HOLE AT THIS POINT AND FEED THE TWISTED PAIR HARNESS THRU THE HOLE. SOLDER THE WIRES ON COMPONENT SIDE AS PER WIRE LIST. CUT THE LEADS AS SHORT AS POSSIBLE.
5. ITEM 10 IN -0001 LM CONSISTS OF BULK CABLE ASSY MATERIAL

ZONE	LTR	DESCRIPTION	DATE	APPROVED
A		CN407604 (E) (1) LM ITEM 9, ADDED VENDORS PN.		
B		(2) LM ITEM 13 VENDOR PN WAS TTT-030-7313-092, DESC WAS DISK CABLE 24-30 (3) LM, ADDED ITEM 15	4-18-79	J. R. R.
C		CN423394 (B) (1) LM ITEM 1, PN WAS 996223-0001, VENDOR PN WAS UBS4802CA1DH	6-10-79	J. R. R.
D		CN421181 (B) (1) ADDED DATUM HOLE (4) DIM 1.3±.1, .5±.1 (2) ADDED NOTE (4) REV. LEVEL BLOCK	6-10-79	J. R. R.
E		CN429052 (B) (1) REV LEVEL OF REVISION B WAS C (2) UPDATED REV LEVEL BLOCK	1-5-78	J. R. R.
		CN429827 (C) (1) LM, ITEM 9 WAS -0002 AND ITEM 13 WAS -0001 (2) UPDATED REV LEVEL BLOCK	2-26-79	J. R. R.



VIEW A

PART NO	DISCRIPTION
947616-0001	CABLE ASSY, CONTROLLER TO TRIDENT, RADIAL
947616-0001	BULK CABLE ASSY MATERIAL FOR -0001

- PROCESSES:  
3. 1. SOLDER PER F-27, METHOD I  
2. MARK PER F-100, METHOD VII, CLASS 12, COLOR BLACK, TYPE 6

REV. LEVEL	SCHEMATIC 948950	WIRE LIST 947590	PWB 947614	THIS DRAWING
	* * * * *	* * * * *	* * A A A A A B B B B	* A B C D E F G H J K L

REV STATUS	REV	L	L
OF SHEETS	SHEET	1	2

QTY REQ	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION

UNLESS OTHERWISE SPECIFIED	UNLESS OTHERWISE SPECIFIED
REMOVE ALL BURRS AND SHARP EDGES	DWN DATE
CONCENTRICITY MACHINED	CHG 3 4/3/79
DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING	ENGR 7/2/76
IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY	GA 7/2/76
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100	APVD 7/2/76
HOLE TOLERANCE	CONTR NO
0.18 ±.004	DESIGN ACTIVITY RELEASE
0.25 ±.005	DATE 7/2/76
0.30 ±.005	SCALE 1:1
0.35 ±.005	
0.40 ±.005	
0.50 ±.005	
0.750 ±.005	

SIZE	CODE IDENT NO	DRAWING NO
D	96214	947616

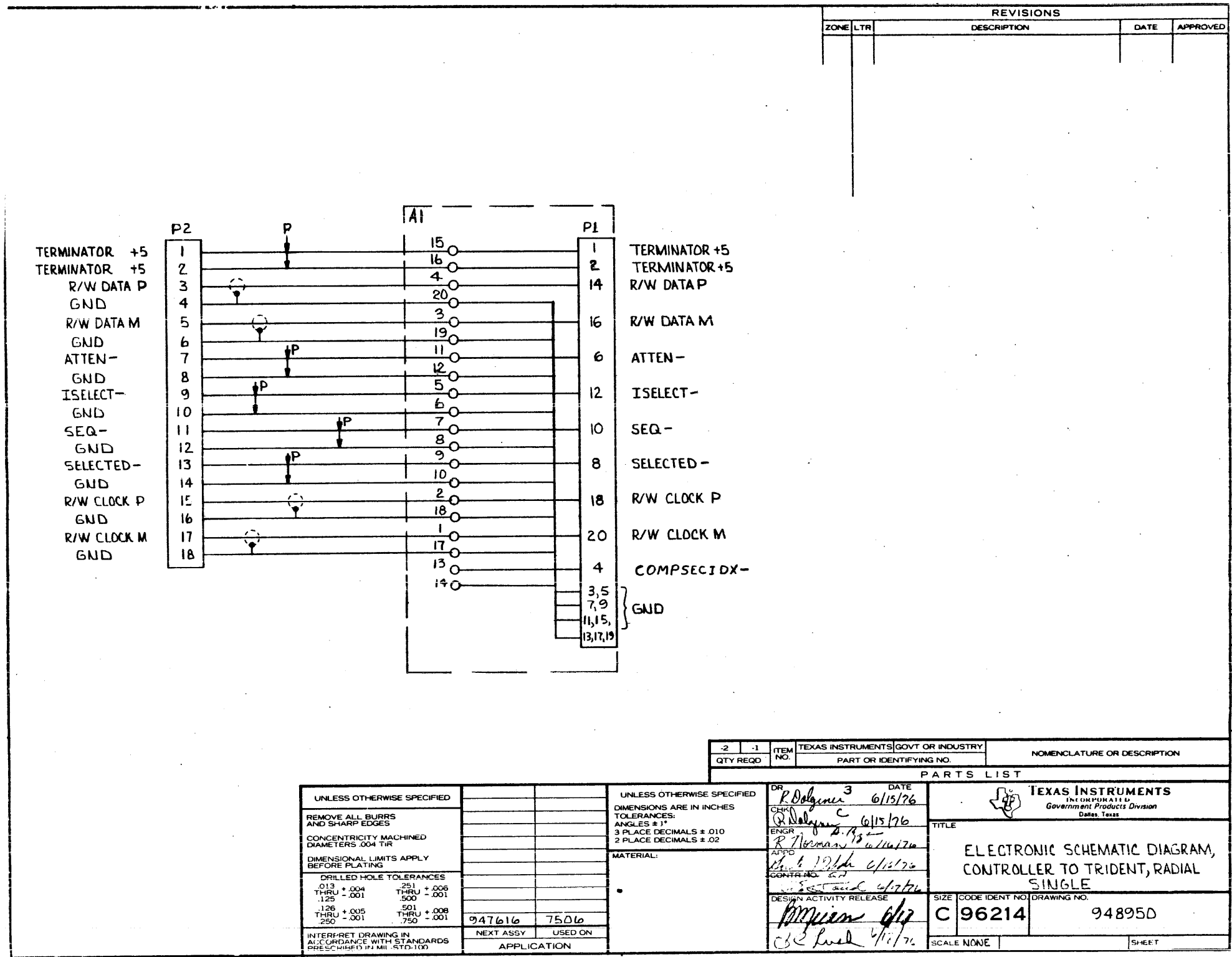


REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
	F	CN424812 (C) <del>2</del> (1) DIM 240.00 ±12.00 WAS 180.00 ±6.00 AND DIM 230.00 ±12.00 WAS 90.00 ±6.00 (2) LM, QTY OF ITEMS 4, 5, AND 7 WAS 75, 15, AND 60 RESP. (3) UPDATED REV LEVEL BLOCK (4) ADDED SH 2	6-25-78	L.R.P.
	G	CN429932 (B) <del>1</del> (1) ADDED NOTE 5 (2) UPDATED REV LEVEL BLOCK	5-25-78	L.R.P.
	H	CN452545 (C) <del>1</del> (1) ADDED -5001 LM, ALSO DELETE SAME ITEM NOS FROM RESPECTIVE LM (2) ON LM -0001 ADDS ITEM 10 (3) ADDS ITEM 101 AND FLAG NOTE (4) ON SH1 OF DWG (5) ADDED PART ID BLOCK ON SH1-1 (5) UPDATED REV LEVEL BLOCK	10-2-79	E. Way
	J	CN447465 (C) <del>1</del> (1) IN LM -5001: CHG ITEM 3, QTY WAS 12 BA (2) PN ITEM 11 WAS 906159-0001 (3) ITEM 14 QTY WAS 250 (4) DELETE ITEM 13 (5) UPDATED REV LEVEL BLOCK	10-2-79	E. Way
	K	CN433728 (D) <del>1</del> (1) CHANGED PICTORIAL OF P2 FROM A DOWNWARD SLANT (2) UPDATED REV LEVEL BLOCK	2-19-80	L.R.P.
	L	CN433750 (D) <del>1</del> (1) DELETED NOTE (2) LM, ITEM 5 PN WAS 972436-0017 (3) UPDATED REV LEVEL BLOCK	2-12-80	L.R.P.

TEXAS INSTRUMENTS <small>MEMPHIS, TENN.</small>	DATE 4-25-78	D96214	DRAWING NO. 947616	SHEET L
	SCALE 1:1	SHEET 2		

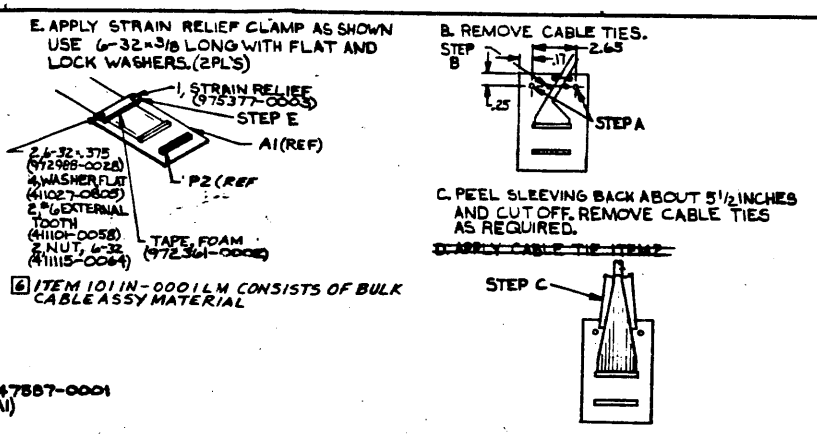
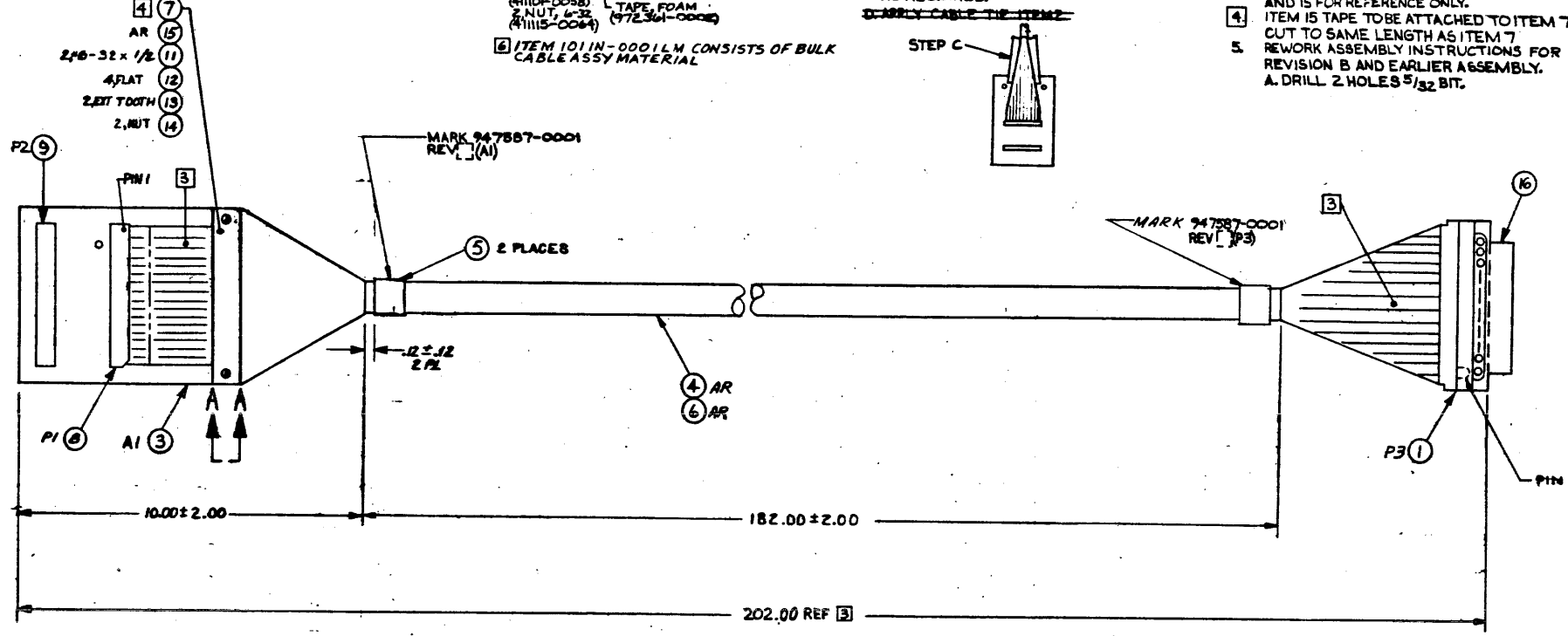
TEXAS INSTRUMENTS INCORPORATED		DATE	LIST OF MATERIAL		PAGE	1 of	PART NUMBER	REV
		02/13/80					LM 0947616-0001	L
REV ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER		
0001	00001.000	EA		0996587-0001	CONNECTOR, 20 CONTACTS DDU ROW PCB MOUNT	071468-U8S130105-9		
0001A					A1P1			
0002	00002.000	EA		0925815-0002	TIE, CABLE			
0003	00001.000	EA		0947614-0001	PWB, RADIAL CABLE			
0003A					A1			
0008	REF	EA		0947590-9901	WIRING LIST, CONT TO TRIDENT, BUS, CABLE			
0010	00001.000	EA		0956222-0001	CONNECTOR	CAN - 130002-0101		
0010A					P2			
0012	REF	EA		0948950-9901	SCHEMATIC, CABLE, CONTR TO TRIDENT, RADIAL			
0015	REF	EA		0948973-9901	UNIT TP, TRIDENT T-50/25 DISK CONT ASSY			
0101	00001.000	EA		0947616-5001	BULK CABLE ASSEMBLY MATERIAL FOR -0001			
DRAFTSMAN		DATE	CKD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	
			H.R. [Signature]	2-14-80			CABLE ASSY, CONTROLLER TO TRIDENT, RADIAL	
APPD. ENG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	
							7506	
							LM 0947616-0001	L

TEXAS INSTRUMENTS INCORPORATED		DATE	LIST OF MATERIAL		PAGE	1 of	PART NUMBER	REV
		02/13/80					LM 0947616-5001	L
REV ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER		
0004	00100.000	FT		0966760-2692	WIRE, TWISTED PAIR #26 WHT/RED IPVC	UL - 1472 7STR UL		
0005	00020.000	FT		0972436-0019	INSULATION SLEEVING PVC CHLORIDE	LFS - HT-105C-24		
0006	00003.000	EA		0418201-0060	STRAP, MARKER, ADJUSTABLE, PLASTIC	QPL-MS-3368-1-98		
0007	00080.000	FT		0914976-0001	COAXIAL CABLE, 95 OHM MINIATURE			
0009	00020.000	EA		0996224-0004	CONTACTS, CRIMP, 24-30 AWG, REEL	071468-110238-0151		
0011	00004.000	EA		0535332-0004	SLEEVE, SOLDER-HEAT SHRINK, 24 GA, 19 STRND	008795-SEE TI DWG		
0014	00000.002	RL		0235744-0120	TAPE FOAM 1/8THX1/4IN TH D/COATED BLK.	SEE TI- DRAWING		
DRAFTSMAN		DATE	CKD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	
							BULK CABLE ASSEMBLY MATERIAL FOR -0001	
APPD. ENG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	
							LM 0947616-5001	L



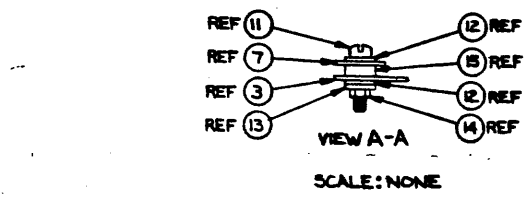
-2	-1	ITEM NO.	TEXAS INSTRUMENTS GOVT OR INDUSTRY	NOMENCLATURE OR DESCRIPTION
QTY REQD		PART OR IDENTIFYING NO.		
PARTS LIST				
UNLESS OTHERWISE SPECIFIED REMOVE ALL BURRS AND SHARP EDGES CONCENTRICITY MACHINED DIAMETERS .004 TIR DIMENSIONAL LIMITS APPLY BEFORE PLATING DRILLED HOLE TOLERANCES .013 +.004 THRU -.001      .251 +.006 THRU -.001 .125 +.005 THRU -.001      .501 +.008 THRU -.001 .250 +.005 THRU -.001      .750 +.001 THRU -.001			UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES: ANGLES ± 1° 3 PLACE DECIMALS ± .010 2 PLACE DECIMALS ± .02 MATERIAL:	
INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-STD-100			DR <i>R. Dolgner</i> 3 DATE 6/15/76 CKD <i>R. Dolgner</i> C 6/15/76 ENGR <i>R. Dolgner</i> 2/15/76 APPD <i>R. Dolgner</i> 6/15/76 CONTR NO. 67 DESIGN ACTIVITY RELEASE <i>Compton 6/17</i> <i>CB2 Lued 4/1/76</i>	
NEXT ASSY USED ON APPLICATION			TEXAS INSTRUMENTS INCORPORATED Government Products Division Dallas, Texas TITLE ELECTRONIC SCHEMATIC DIAGRAM, CONTROLLER TO TRIDENT, RADIAL SINGLE SIZE CODE IDENT NO DRAWING NO. C 96214 94895D SCALE NONE SHEET	

ZONE	LTR	DESCRIPTION	DATE	APPROVED
L		CN433710 (D) P2 DELETED DIM 500±.50, 2.00±.25, 1.00±.25 2 PLACES (2) DIM. 202.00 (3) WAS 180.00 (3) ADDED DIM 10.00±2.00, REWOK 22.00±.12±.12, 2 PL (4) REVISED PICTORIAL PER DIM. CHANGES (5) 500ILM ITEM 6 QTY WAS 15.0	2-11-80	J.R.P.
M		CN433757 (D) P2 DELETED DIM 500±.50, 2.00±.25, 1.00±.25 2 PLACES (2) DIM. 202.00 (3) WAS 180.00 (3) ADDED DIM 10.00±2.00, REWOK 22.00±.12±.12, 2 PL (4) REVISED PICTORIAL PER DIM. CHANGES (5) 500ILM ITEM 6 QTY WAS 15.0	4-1-80	J.R.P.



- NOTES:
- PIN 1 OF CONNECTOR AI/P1 GOES TO PIN 1 OF CONNECTOR P3, ETC...
  - THE CONNECTOR MUST BE CRIMPED TO THE FLAT UNTWISTED AREAS OF THE WIRE MATERIAL (ITEM 4) TO BE CUT AT CENTER OF 2 INCH FLAT SECTION. OVERALL LENGTH TO BE APPROX. 200.00 INCHES. OVERALL LENGTH AS SHOWN IS NOMINAL AND IS FOR REFERENCE ONLY.
  - ITEM 15 TAPE TO BE ATTACHED TO ITEM 7, CUT TO SAME LENGTH AS ITEM 7, REWORK ASSEMBLY INSTRUCTIONS FOR REVISION B AND EARLIER ASSEMBLY. A. DRILL 2 HOLES 5/32 BIT.

ZONE	LTR	DESCRIPTION	DATE	APPROVED
A		CN420053 (D) P2 WASHALL (1) DIM 180.00±.18±.00 WAS 180.00±.600 (2) ADDED NOTE 4	8-7-77	J.R.P.
B		CN424400 (D) P2 (1) ON L.M. ITEM 9 WAS 994 223-0002	6-9-77	J.R.P.
C		CN430041 (D) P2 (1) ON L.M. REV 8. LIST OF CHANGE WAS C. (2) L.M. ITEM 7 QTY WAS 2. (3) WAS 972361-0003. ITEM 2 QTY WAS 1. ADDED ITEMS 11 THRU 15 (3) REVISED PICTORIAL OF ITEM 3 TO SHOW STRAIN RELIEF ITEM 7 (4) ADDED DIM: 5.00±.50	1-25-78	J.R.P.
D		CN429068 (B) H. (1) ADDED REWORK NOTE 5 (2) CHANGED NOTE 4 (3) ITEM 15 WAS 972361-0003 (4) ADDED VIEW A (5) ADDED NOTE 4 TO F/D	5-1-78	J.R.P.
E		CN429823 (E) H. (1) CHANGED NOTE 3 (2) DIM 180.00 WAS 180.00±.00±.00 (3) REV MARKER CALL OUT FOR DIM P3 (4) DELETED MARKER BAND AND DIM 9.00±.2.00 (5) DELETED DIM 8.00±.1.00 (6) ITEM 1 WAS 972696-4 (7) ITEM 4 QTY WAS 16.00 (8) (3) DELETED ITEM 2 (DIM 100±.25 WAS 1.00±.50	5-1-78	J.R.P.
F		CN429832 (D) H. (1) ITEM 6 WAS 3	5-1-78	J.R.P.



PROCESSES:  
 1. MARK PER F-100, METHOD VII, CLASS 12, COLOR BLACK, TYPE 6  
 2. SOLDER PER F-127, METHOD I

PART NO	DESCRIPTION
947587-5001	BULK CABLE ASSEMBLY MATERIAL FOR -0001
947587-0001	CABLE ASSY, CONTROLLER TO TRIDENT, BUS

G		CN442673 (C) H. (1) ON L.M. ITEM 1 WAS PN996261-16 AND CHANGED PICTORIAL	9-28-78	E. King
B-7	C-2	CN446559 (E) C. (1) ADDED INDEXING NOTCH TO ITEM 8 (2) ADDED PICTORIAL OF ITEM 16 (3) DELETE ".25" FROM NOTE 3 (4) L.M.: ADDED ITEM 16: P1 OF ITEM 8 WAS 972696-4; QTY'S OF ITEMS 6 AND 15 WERE 15.000 AND .010 RESPECT	3-23-79	E. King
J		CN448354 (C) M. (1) REVERSED PICT OF P3 ITEM 1	5-17-79	J.R.P.
K		CN432647 (C) L.T. (1) CREATED -5001 L.M. (2) ADDED ITEM 101 TO -0001 L.M. (3) ADDED NOTE 6 (4) ADDED PART NO BLOCK	8-14-79	J.R.P.

REV CONTINUED D-B

UNLESS OTHERWISE SPECIFIED	UNLESS OTHERWISE SPECIFIED	DATE	DESIGNER	DATE	DATE
REMOVE ALL BURRS AND SHARP EDGES	DIMENSIONS ARE IN INCHES	6/10/76	J. King	7/2/76	7/2/76
CONCENTRICITY MACHINED DIAMETERS .010 PIR	TOLERANCES				
DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING	ANGLES ±1°				
IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY	3 PLACE DECIMALS ±.010				
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100	2 PLACE DECIMALS ±.02				
HOLE TOLERANCE					
.015 ±.001					
.030 ±.001					
.045 ±.001					
.075 ±.001					
.100 ±.001					
.150 ±.001					
.200 ±.001					
APPLICATION					

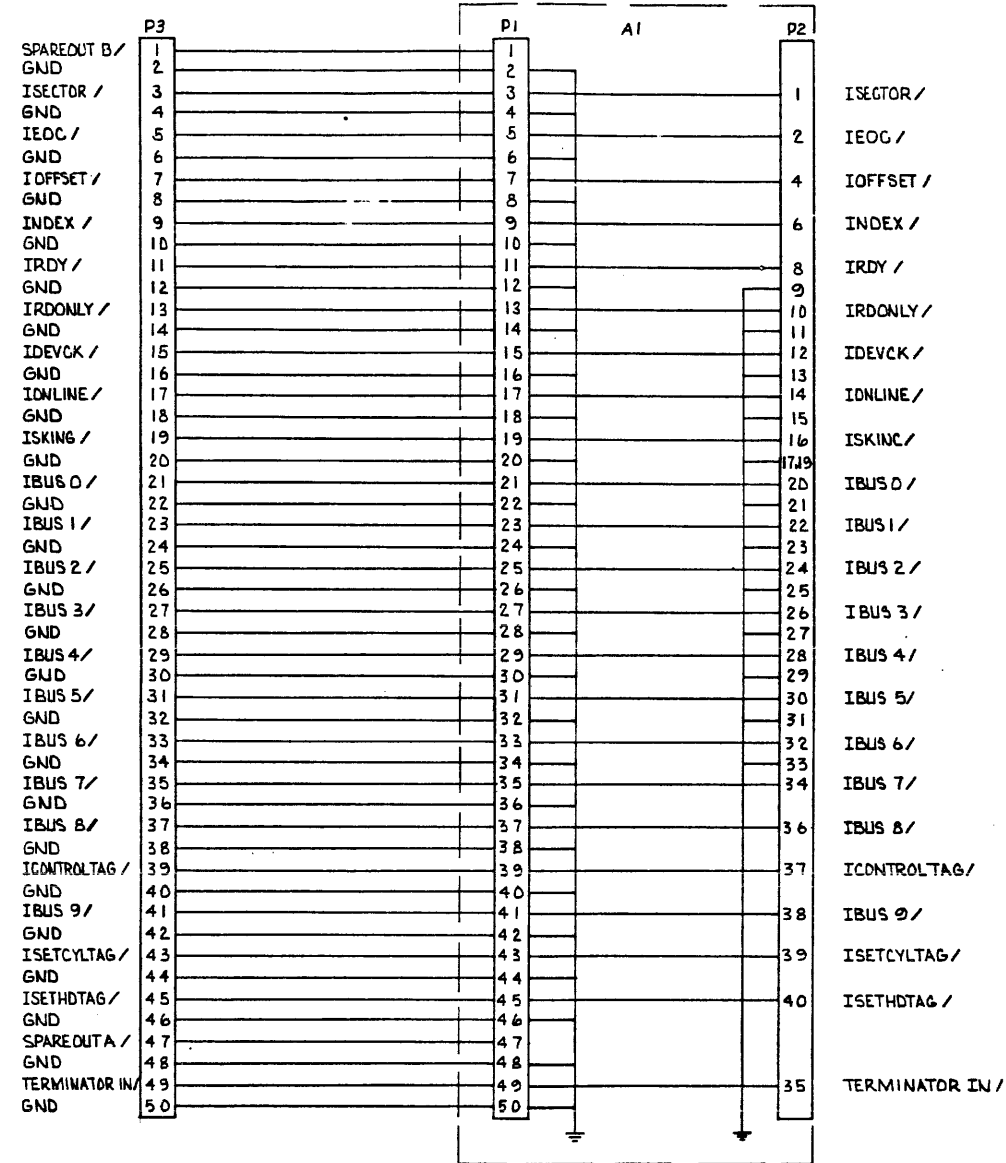
TEXAS INSTRUMENTS  
 EQUIPMENT GROUP  
 CABLE ASSY, CONTROLLER TO TRIDENT, BUS

SIZE: CODE IDENT NO: DRAWING NO:  
 D 96214 947587

SCALE: 1:1

TEXAS INSTRUMENTS INCORPORATED		DATE 03/14/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0947587-5001		REV M		
PART ITEM NUMBER	QUANTITY OR ASSEMBLY	UNIT OF REQ	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0004	00016.660	FT		0996128-0008	CABLE #28 AWG 7-STRAND TWISTED PAIRS FL	SSM - 455-248-50						
0005	00002.000	EA		0418201-0060	STRAP, MARKER, ADJUSTABLE, PLASTIC	QPL-MS-3368-1-98						
0006	00015.167	FT		0972435-0104	INSUL SLEEVING, 5/8" ID ZIP TUBE, PVC	007240-2TZ0625632080L						
0011	00002.000	EA		0972988-0030	SCREW 6-32 X .500 PAN HEAD CRES							
0012	00004.000	EA		0411027-0005	WASHER, FLAT, .15610 X .312 OD X .035THK							
0013	00002.000	EA		0411101-0058	LOCKWASHER #6 EXTERNAL TOOTH CRES	QPL - MS35335-58						
0014	00002.000	EA		0411115-0064	NUT, PLAIN 6-32 UNC-28 HEX CRES	QPL - MS35649-264						
0015	00000.002	RL		0972361-0002	TAPE, FOAM, VINYL, SELF ADH 3/8 WIDE	NRS --V544						
DRAFTSMAN		DATE	CHKD	DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE BULK CABLE ASSEMBLY MATERIAL FOR -0001				
APP'D		DATE	APP'D	PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 0947587-5001			REV M

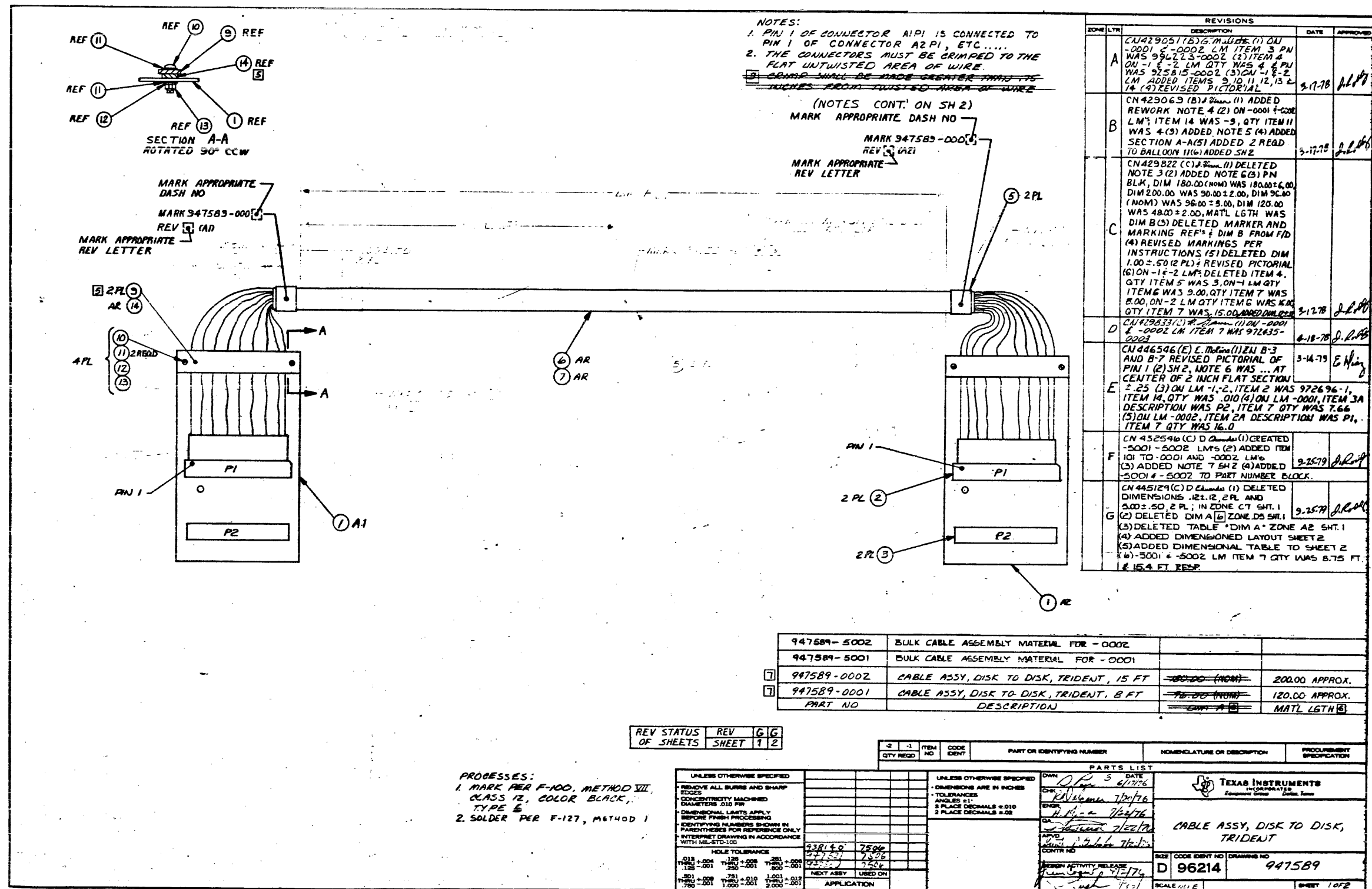
TEXAS INSTRUMENTS INCORPORATED		DATE 03/14/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 0947587-0001		REV M			
PART ITEM NUMBER	QUANTITY OR ASSEMBLY	UNIT OF REQ	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER							
0001	00001.000	EA		0996261-0008	CONNECTOR, RECEPT, 50 POS W/O STRAIN RELIEF	000779-88379-8							
0001A					P3								
0003	00001.000	EA		0947613-0001	PMB, BUS CABLE								
0003A					A1								
0007	00001.000	EA		0975377-0003	STRAIN RELIEF, PMB								
0008	00001.000	EA		2210165-0004	HEADER, PADDLEBD TO RIBBON CBL, 50 POS	000779-88213-8							
0008A					P1								
0009	00001.000	EA		0996587-0002	CONNECTOR, 40 CONTACTS DOU ROW PCB MOUNT	071460-UBS130105-5							
0009A					P2								
0010	REF	EA		0947583-9901	SCHEMATIC, CABLE, CONTR TO TRIDENT BUS								
0016	00001.000	EA		2210259-0009	TAB, PULL, PLASTIC LOOP, 2.500 L, 50 POS	000779-88450-9							
0101	00001.000	EA		0947587-5001	BULK CABLE ASSEMBLY MATERIAL FOR -0001								
DRAFTSMAN		DATE	CHKD	DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CABLE ASSY, CONTROLLER TO TRIDENT, BUS					
APP'D		DATE	APP'D	PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	7506			PART NUMBER LM 0947587-0001	REV M



NOTES:  
 1. ALL WIRES FROM P3 TO A1 ARE TWISTED PAIR.

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED

QTY	REQD	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION
PARTS LIST						
UNLESS OTHERWISE SPECIFIED				UNLESS OTHERWISE SPECIFIED		
- REMOVE ALL BURRS AND SHARP EDGES				- DIMENSIONS ARE IN INCHES		
- CONCENTRICITY MACHINED DIAMETERS .010 FIR				- TOLERANCES ANGLES ±1°		
- DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING				- 3 PLACE DECIMALS ± 0.10		
- IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY				- 2 PLACE DECIMALS ± 0.02		
- INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100				DWN: [Signature] DATE: [Date]		
HOLE TOLERANCE				CHK: [Signature]		
.013 - .001				ENGR: [Signature]		
.125 - .001				APVD: [Signature]		
.251 - .001				CONTR NO: [Number]		
.501 - .001				DESIGN ACTIVITY RELEASE: [Signature]		
.751 - .001				SIZE: D		
1.001 - .001				CODE IDENT NO: 96214		
1.251 - .001				DRAWING NO: 947583		
1.501 - .001				SCALE: [Scale]		
1.751 - .001				SHEET: [Number]		
2.001 - .001						



NOTES:  
 1. PIN 1 OF CONNECTOR A/P1 IS CONNECTED TO PIN 1 OF CONNECTOR A/P2, ETC.....  
 2. THE CONNECTORS MUST BE CRIMPED TO THE FLAT UNTWISTED AREA OF WIRE.  
~~3. CRIMP SHALL BE MADE GREATER THAN 1/16 INCHES FROM TWISTED AREA OF WIRE~~

(NOTES CONT. ON SH 2)  
 MARK APPROPRIATE DASH NO  
 MARK APPROPRIATE REV LETTER

ZONE LTR	DESCRIPTION	DATE	APPROVED
A	CN 429051 (B) 6.7M LTR (1) ON -0001 & -0002 LM ITEM 3 PN WAS 994213-0002 (2) ITEM 4 ON -1 & -2 LM QTY WAS 4 & PU WAS 925815-0002 (3) ON -1 & -2 LM ADDED ITEMS 9, 10, 11, 12, 13 & 14 (4) REVISED PICTORIAL	3-11-78	J. R. P.
B	CN 429063 (B) 7.2M LTR (1) ADDED REWORK NOTE 4 (2) ON -0001 & -0002 LM ITEM 14 WAS -3, QTY ITEM 11 WAS 4 (3) ADDED NOTE 5 (4) ADDED SECTION A-A (5) ADDED 2 READ TO BALLOON 11 (6) ADDED SH 2	3-11-78	J. R. P.
C	CN 429822 (C) 8.2M LTR (1) DELETED NOTE 3 (2) ADDED NOTE 6 (3) PN BLK, DIM 180.00 (NOM) WAS 180.00 ± 6.00, DIM 200.00 WAS 90.00 ± 2.00, DIM 90.00 (NOM) WAS 96.00 ± 8.00, DIM 120.00 WAS 48.00 ± 2.00, MATL LGTH WAS DIM B (5) DELETED MARKER AND MARKING REF'S & DIM B FROM P/D (4) REVISED MARKINGS PER INSTRUCTIONS (5) DELETED DIM 1.00 ± .50 (2 PL) & REVISED PICTORIAL (6) ON -1 & -2 LMS DELETED ITEM 4, QTY ITEM 5 WAS 3, ON -1 LM QTY ITEM 6 WAS 9.00, QTY ITEM 7 WAS 8.00, ON -2 LM QTY ITEM 8 WAS 16.00, QTY ITEM 7 WAS 15.00, ADDED DIM 1.00 ± .50 (2 PL)	3-12-78	J. R. P.
D	CN 429833 (D) 8.2M LTR (1) ON -0001 & -0002 LM ITEM 7 WAS 972435-0002	4-18-78	J. R. P.
E	CN 446546 (E) 8.2M LTR (1) ZAL B-3 AND B-7 REVISED PICTORIAL OF PIN 1 (2) SH 2, NOTE 6 WAS ... AT CENTER OF 2 INCH FLAT SECTION ± .25 (3) ON LM -1, -2, ITEM 2 WAS 972696-1, ITEM 14, QTY WAS .010 (4) ON LM -0001, ITEM 3A DESCRIPTION WAS P2, ITEM 7 QTY WAS 7.66 (5) ON LM -0002, ITEM 2A DESCRIPTION WAS P1, ITEM 7 QTY WAS 16.0	3-14-79	E. H. W.
F	CN 432546 (C) D 8.2M LTR (1) CREATED -5001 -5002 LMS (2) ADDED ITEM 101 TO -0001 AND -0002 LMS (3) ADDED NOTE 7 SH 2 (4) ADDED -5001 & -5002 TO PART NUMBER BLOCK	9-25-79	J. R. P.
G	CN 445129 (C) D 8.2M LTR (1) DELETED DIMENSIONS .12 ± .12, 2 PL AND 5.00 ± .50, 2 PL; IN ZONE C7 SHT. 1 (2) DELETED DIM A (3) ZONE D5 SHT. 1 (3) DELETED TABLE "DIM A" ZONE A2 SHT. 1 (4) ADDED DIMENSIONED LAYOUT SHEET 2 (5) ADDED DIMENSIONAL TABLE TO SHEET 2 (6) -5001 & -5002 LM ITEM 7 QTY WAS 8.75 FT. & 15.4 FT. RESP.	9-25-79	J. R. P.

947589-5002	BULK CABLE ASSEMBLY MATERIAL FOR -0002		
947589-5001	BULK CABLE ASSEMBLY MATERIAL FOR -0001		
947589-0002	CABLE ASSY, DISK TO DISK, TRIDENT, 15 FT	15.00 (NOM)	200.00 APPROX.
947589-0001	CABLE ASSY, DISK TO DISK, TRIDENT, 8 FT	8.00 (NOM)	120.00 APPROX.
PART NO	DESCRIPTION	QTY REQ	MATL LGTH

REV STATUS OF SHEETS	REV	G/G
	1	2

PROCESSES:  
 1. MARK PER F-100, METHOD VII, CLASS 12, COLOR BLACK, TYPE 6  
 2. SOLDER PER F-127, METHOD 1

UNLESS OTHERWISE SPECIFIED		UNLESS OTHERWISE SPECIFIED	
REMOVE ALL BURRS AND SHARP EDGES	CONCENTRICITY MACHINED	DIMENSIONS ARE IN INCHES	TOLERANCES
DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING	IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY - INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100	ANGLES ± 1°	3 PLACE DECIMALS ± 0.10
		2 PLACE DECIMALS ± 0.02	

QTY REQ	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION

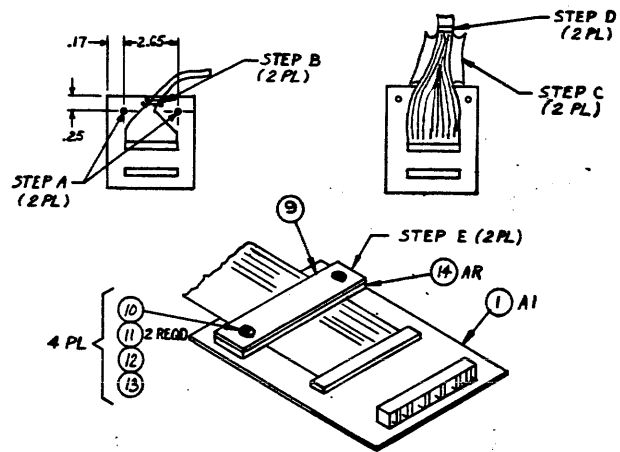
PARTS LIST		DATE	
DATE	BY	DATE	BY
7/20/76	J. R. P.	7/20/76	J. R. P.
7/22/76	J. R. P.	7/22/76	J. R. P.
7/23/76	J. R. P.	7/23/76	J. R. P.
7/24/76	J. R. P.	7/24/76	J. R. P.
7/25/76	J. R. P.	7/25/76	J. R. P.
7/26/76	J. R. P.	7/26/76	J. R. P.
7/27/76	J. R. P.	7/27/76	J. R. P.
7/28/76	J. R. P.	7/28/76	J. R. P.
7/29/76	J. R. P.	7/29/76	J. R. P.
7/30/76	J. R. P.	7/30/76	J. R. P.
7/31/76	J. R. P.	7/31/76	J. R. P.

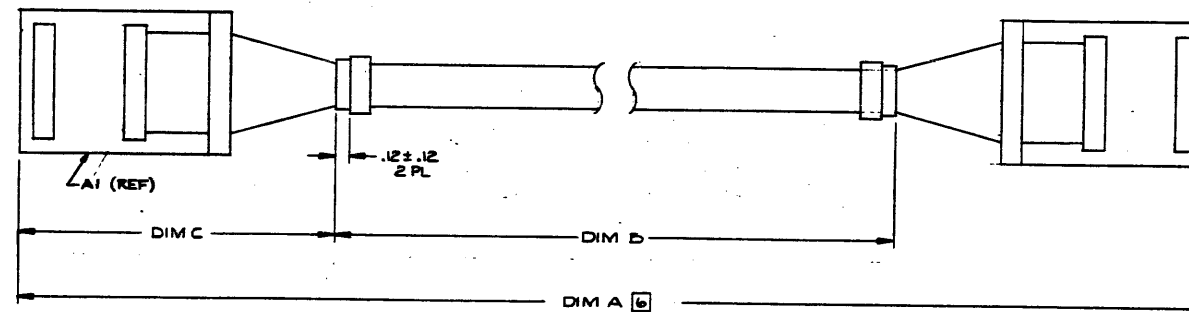
TEXAS INSTRUMENTS INCORPORATED	
EQUIPMENT GROUP - Dallas, Texas	
CABLE ASSY, DISK TO DISK, TRIDENT	
SIZE	CODE IDENT NO
D	96214
DRAWING NO	947589
SCALE	NONE
SHEET	1 OF 2

**NOTES CONT.**

4. REWORK ASS'Y INSTRUCTIONS FOR REV \* ASS'Y
  - A. DRILL 2 HOLES  $\frac{1}{32}$  BIT
  - B. REMOVE CABLE TIES
  - C. PEEL SLEEVING BACK ABOUT  $5\frac{1}{2}$  INCHES AND CUT OFF. REMOVE CABLE TIES AS REQUIRED
  - D. APPLY CABLE TIE ITEM 4
  - E. APPLY STRAIN RELIEF CLAMP, ITEM 9, AS SHOWN. USE  $6-32 \times \frac{1}{2}$  LONG WITH FLAT LOCK WASHERS (4 PLS)



5. ITEM 14 TAPE TO BE ATTACHED TO ITEM 9, CUT TO SAME LENGTH AS ITEM 9
6. MATERIAL (ITEM 6) TO BE CUT AT CENTER OF 2 INCH FLAT SECTION ~~OF~~, OVERALL LENGTH TO BE AS SHOWN IN DIMENSIONAL TABLE. DIMENSION A IS NOMINAL AND IS FOR REFERENCE ONLY
7. ITEM 10 IN -0001 & -0002 LMS CONSISTS OF BULK CABLE ASSEMBLY MATERIAL



947589-0002	205.00 ± 6.00	182.00 ± 2.00	13.50 ± 2.00
947589-0001	125.00 ± 6.00	98.00 ± 2.00	13.50 ± 2.00
PART NUMBER	DIM A [6]	DIM B	DIM C
DIMENSIONAL TABLE			

TEXAS INSTRUMENTS	DATE: 2-8-73	SIZE: D	PART NO: 96214	ENGINEER NO: 947589	REV: 6
	DATE: 3-17-78	SCALE: A=1			SHEET: 2



TEXAS INSTRUMENTS INCORPORATED		DATE 08/16/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0947589-0001		REV G	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00002.000	EA		0947613-0001	PWB,BUS CABLE						
0001A					A1 A2						
0002	00002.000	EA		2210165-0004	HEADER,PADDLEBD TO RIBBON CBL, 50 POS	000779-88213-8					
0002A					A1P1 A2P1						
0003	00002.000	EA		0996587-0002	CONNECTOR,40 CONTACTS DOU ROW PCB MOUNT	071468-UBS130105-5					
0003A					A1P2 A2P2						
0008	REF	EA		0947593-9901	SCHEMATIC, CABLE, TRIDENT TO TRIDENT,BUS						
0009	00002.000	EA		0975377-0003	STRAIN RELIEF,PWB						
0101	00001.000	EA		0947589-5001	BULK CABLE ASSEMBLY MATERIAL FOR -0001						

DRAFTSMAN	DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	CABLE,ASSY,DISK TO DISK,TRIDENT,8FT				
APPRO. MFG.	DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	7506	PART NUMBER	LM0947589-0001	REV	G

TEXAS INSTRUMENTS INCORPORATED		DATE 08/16/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0947589-0002		REV G	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00002.000	EA		0947613-0001	PWB,BUS CABLE						
0001A					A1 A2						
0002	00002.000	EA		2210165-0004	HEADER,PADDLEBD TO RIBBON CBL, 50 POS	000779-88213-8					
0002A					A1P1 A2P1						
0003	00002.000	EA		0996587-0002	CONNECTOR,40 CONTACTS DOU ROW PCB MOUNT	071468-UBS130105-5					
0003A					A1P2 A2P2						
0008	REF	EA		0947593-9901	SCHEMATIC, CABLE, TRIDENT TO TRIDENT,BUS						
0009	00002.000	EA		0975377-0003	STRAIN RELIEF,PWB						
0101	00001.000	EA		0947589-5002	BULK CABLE ASSEMBLY MATERIAL FOR -0002						

DRAFTSMAN	DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	CABLE ASSY,DISK TO DISK,TRIDENT,15 FT				
APPRO. MFG.	DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.		PART NUMBER	LM0947589-0002	REV	G

TEXAS INSTRUMENTS INCORPORATED		DATE 08/16/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0947589-5001		REV G	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0005	00002.000	EA		0418201-0060	STRAP,MARKER,ADJUSTABLE,PLASTIC	QPL-MS-3368-1-98					
0006	00010.000	FT		0996128-0008	CABLE #28 AWG 7-STRAND TWISTED PAIRS FL	SSW - 455-248-50					
0007	00008.166	FT		0972435-0104	INSUL SLEEVING, 5/8" ID ZIP TUBE,PVC	007240-ZT0625632080L					
0010	00004.000	EA		0972988-0028	SCREW 6-32 X .375 PAN HEAD CRES						
0011	00008.000	EA		0411027-0805	WASHER,FLAT,.156ID X .312 OD X .035THK						
0012	00004.000	EA		0411101-0058	LOCKWASHER #6 EXTERNAL TOOTH CRES	QPL - MS35335-58					
0013	00004.000	EA		0411115-0064	NUT,PLAIN 6-32 UNC-28 HEX CRES	QPL - MS35649-264					
0014	00000.004	RL		0972361-0002	TAPE, FOAM, VINYL, SELF ADH 3/8 WIDE	NRS --V544					

DRAFTSMAN	DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	BULK CABLE ASSEMBLY MATERIAL FOR -0001				
APPRO. MFG.	DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.		PART NUMBER	LM0947589-5001	REV	G

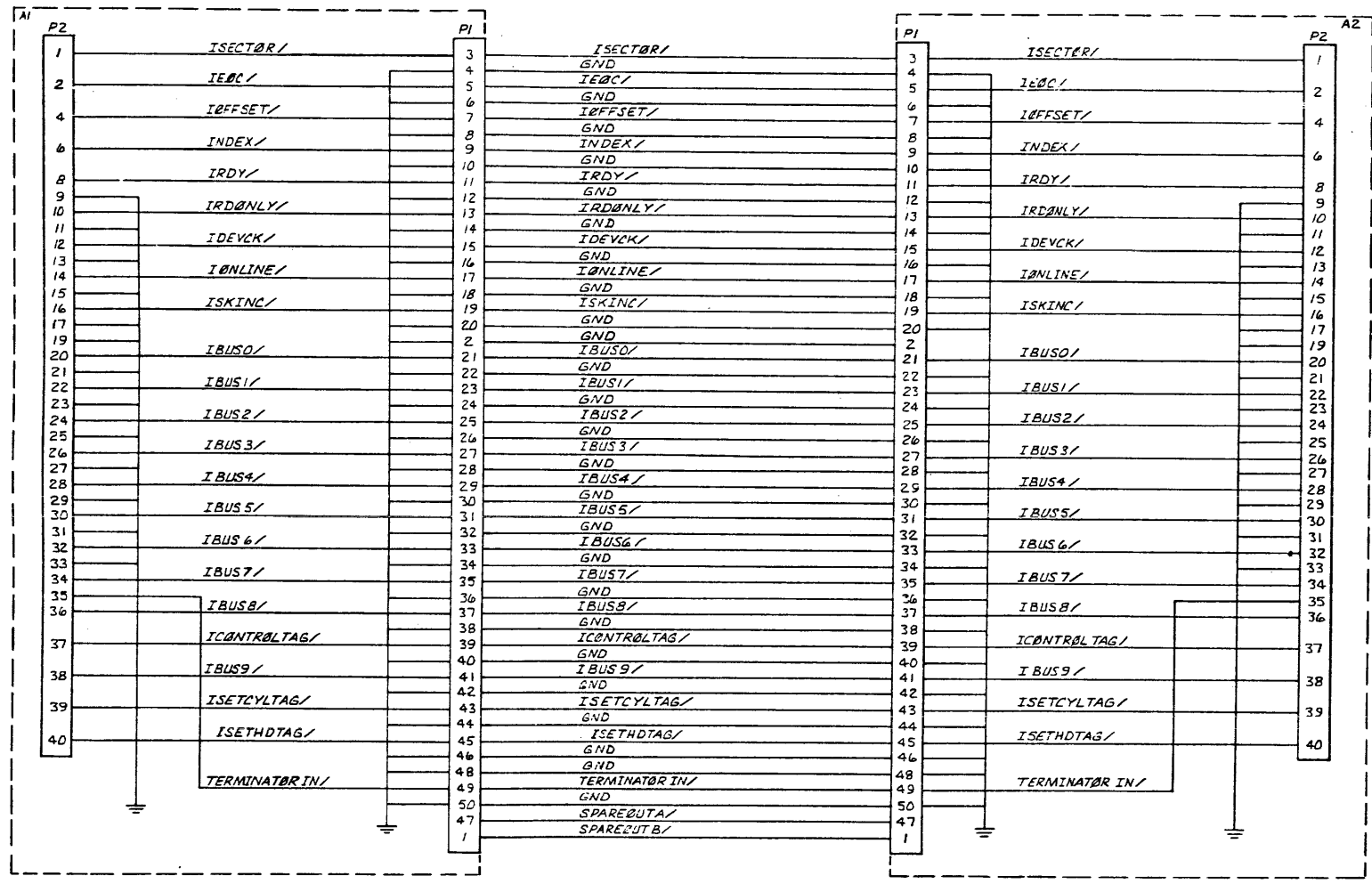
TEXAS INSTRUMENTS INCORPORATED		DATE 08/16/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0947589-5002		REV G	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0005	00002.000	EA		0418201-0060	STRAP,MARKER,ADJUSTABLE,PLASTIC	QPL-MS-3368-1-98					
0006	00016.000	FT		0996128-0008	CABLE #28 AWG 7-STRAND TWISTED PAIRS FL	SSW - 455-248-50					
0007	00015.166	FT		0972435-0104	INSUL SLEEVING, 5/8" ID ZIP TUBE,PVC	007240-ZT0625632080L					
0010	00004.000	EA		0972988-0028	SCREW 6-32 X .375 PAN HEAD CRES						
0011	00008.000	EA		0411027-0805	WASHER,FLAT,.156ID X .312 OD X .035THK						
0012	00004.000	EA		0411101-0058	LOCKWASHER #6 EXTERNAL TOOTH CRES	QPL - MS35335-58					
0013	00004.000	EA		0411115-0064	NUT,PLAIN 6-32 UNC-28 HEX CRES	QPL - MS35649-264					
0014	00000.004	RL		0972361-0002	TAPE, FOAM, VINYL, SELF ADH 3/8 WIDE	NRS --V544					

DRAFTSMAN	DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	BULK CABLE ASSEMBLY MATERIAL FOR -0002				
APPRO. MFG.	DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.		PART NUMBER	LM0947589-5002	REV	G

NOTES:  
1. ALL WIRES FROM A1P1 TO A2P1 ARE TWISTED PAIR

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED



QTY REQD	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION

UNLESS OTHERWISE SPECIFIED		UNLESS OTHERWISE SPECIFIED	
REMOVE ALL BURRS AND SHARP EDGES	CONCENTRICITY MACHINED	DIMENSIONS ARE IN INCHES	TOLERANCES
DIAMETERS .010 FIR	DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING	ANGLES 1°	3 PLACE DECIMALS ± 0.01
IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY	INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100	2 PLACE DECIMALS ± 0.02	
HOLE TOLERANCE			
0.13 ± .004	1.26 ± .008	2.51 ± .008	
THRU ± .001	THRU ± .001	THRU ± .001	
501 ± .008	751 ± .010	1.001 ± .012	
THRU ± .001	THRU ± .001	THRU ± .001	

DATE	BY	DATE	BY
1/16/76			

DESIGN ACTIVITY RELEASE	

SIZE	CODE IDENT NO	DRAWING NO
D	96214	447593

SCALE	SHEET

APPLICATION		REVISIONS			
NEXT ASSY	USED ON	LTR	DESCRIPTION	DATE	APPROVED
047520	7506	A	CN429441 (E) G.M. Delle...	2-23-78	R. Adams
947580	7506				
947521	7506				
958140	7506				

1.0 SCOPE:  
This specification covers the requirements for a PWB-Signal Terminator Assembly.

2.0 APPLICABLE DOCUMENTS:

2.1 The following documents of the issue in effect on date of invitation for bids or request for proposal form a part of the specification to the extent specified herein. In the event of any conflict between this document and the reference documents, this document shall govern.

MIL-STD-105D Sampling Procedures and Tables for Inspection by Attributes

SPECIFICATION CONTROL DRAWING

REV	SHEET	REV STATUS OF SHEETS	REV	A	A	A	A	A	A

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ANGLES ± 1° 3 PLACE DECIMAL ± 0.10 2 PLACE DECIMAL ± 0.2	QWEN L. HENRY 3 6/9/76	<b>TEXAS INSTRUMENTS</b> INCORPORATED Equipment Group Dallas, Texas
	CHK R. Adams 6/10/76	
	ENGR A. Adams 6/10/76	
IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY	DRAWN R. Adams 6/11/76	TERMINATOR ASSY, PWB-SIGNAL
INTERPRET DWG IN ACCORDANCE WITH MIL-STD-100	APP'D R. Adams 6/11/76	SIZE A
	DESIGN ACTIVITY RELEASE Form 9/14/76	CODE IDENT NO 96214
	PCC	DRAWING NO 947528
		SCALE NONE
		REV
		SHEET 1 of 6

3.0 REQUIREMENTS:

3.1 Materials and Construction;  
Materials, finishes, and marking for each part shall be as specified herein. When the materials, or class of materials are not specified, a material shall be used which will enable the device to meet all the requirements of this drawing. Materials, finishes, and marking shall not blister, crack, flow or be adversely affected when exposed to the storage, operating or environmental conditions specified on this drawing.

3.1.1 Physical Configuration:  
See Figure 1

FIGURE 1

3.1.2.1 Electrical Characteristics:  
See Figure 2, Sheet 3 and Figure 3, Sheet 5.

3.1.3 UL Approval  
The printed circuit board used in the terminator assembly shall comply with the flammability requirements of UL94V-2. Proof of this compliance shall be a marking on the PCB giving the UL recognized code number of the PCB manufacturer.

<b>TEXAS INSTRUMENTS</b> INCORPORATED DIGITAL SYSTEMS DIVISION HOUSTON, TEXAS	A	947528	REV
		SHEET 2	A

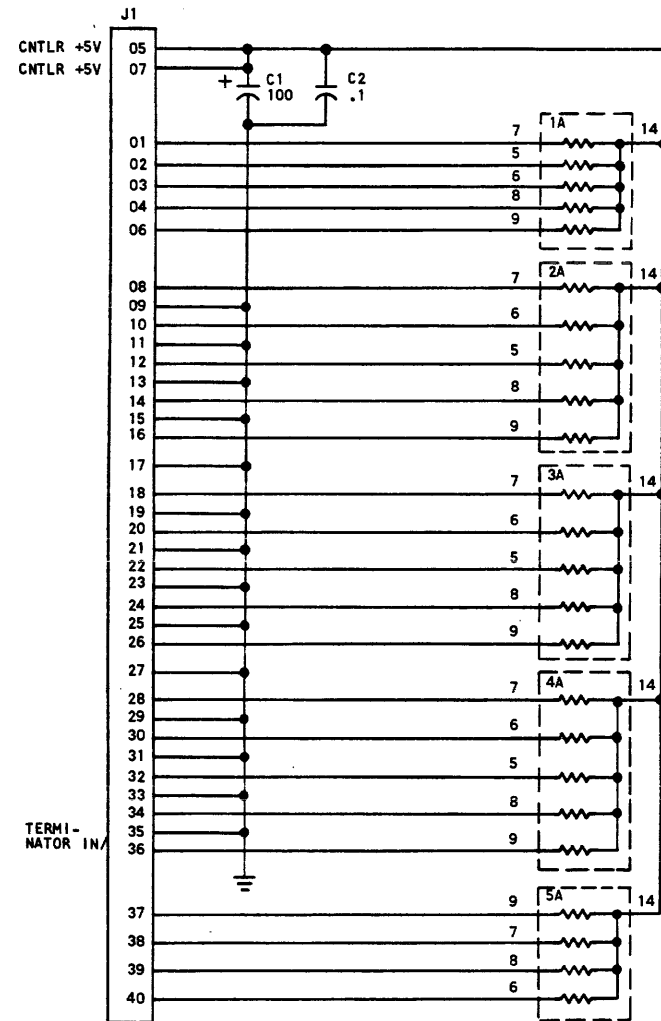


FIGURE 2

NOTE: VENDOR PART NO. 12421-001

SIZE	CODE IDENT NO	DRAWING NO
A	96214	947528
SCALE	REV A	SHEET 3

4.0 QUALITY ASSURANCE PROVISIONS:

4.1 Responsibility for Inspection:

Unless otherwise specified in the contract or purchase order, the supplier is responsible for the performance of all inspection requirements as specified herein. Except as otherwise specified in the contract or order, the supplier may use his own or any other facilities suitable for the performance of the inspection requirements specified herein, unless disapproved by the procuring activity. The procuring activity reserves the right to perform any of the inspections set forth in the specification where such inspections are deemed necessary to assure supplies and services conform to prescribed requirements.

4.2 Inspection by Texas Instruments Incorporated:

All items furnished to this specification shall meet the mechanical and electrical requirements specified herein when subjected to receiving inspection at Texas Instruments Incorporated. The standard inspection sampling plan used at Texas Instruments, unless otherwise specified in the contract or purchase order, is a 1% AQL Single Sampling, General Inspection Level II and Normal Inspection per MIL-STD-105D. Failure of any sample to meet the requirements of this sampling plan shall be grounds for rejection of the entire lot. Rejected lots may be returned to the supplier for screening or may be screened at Texas Instruments, at the procuring activity's option, at the supplier's expense.

5.0 PREPARATION FOR DELIVERY:

5.1 Packaging:

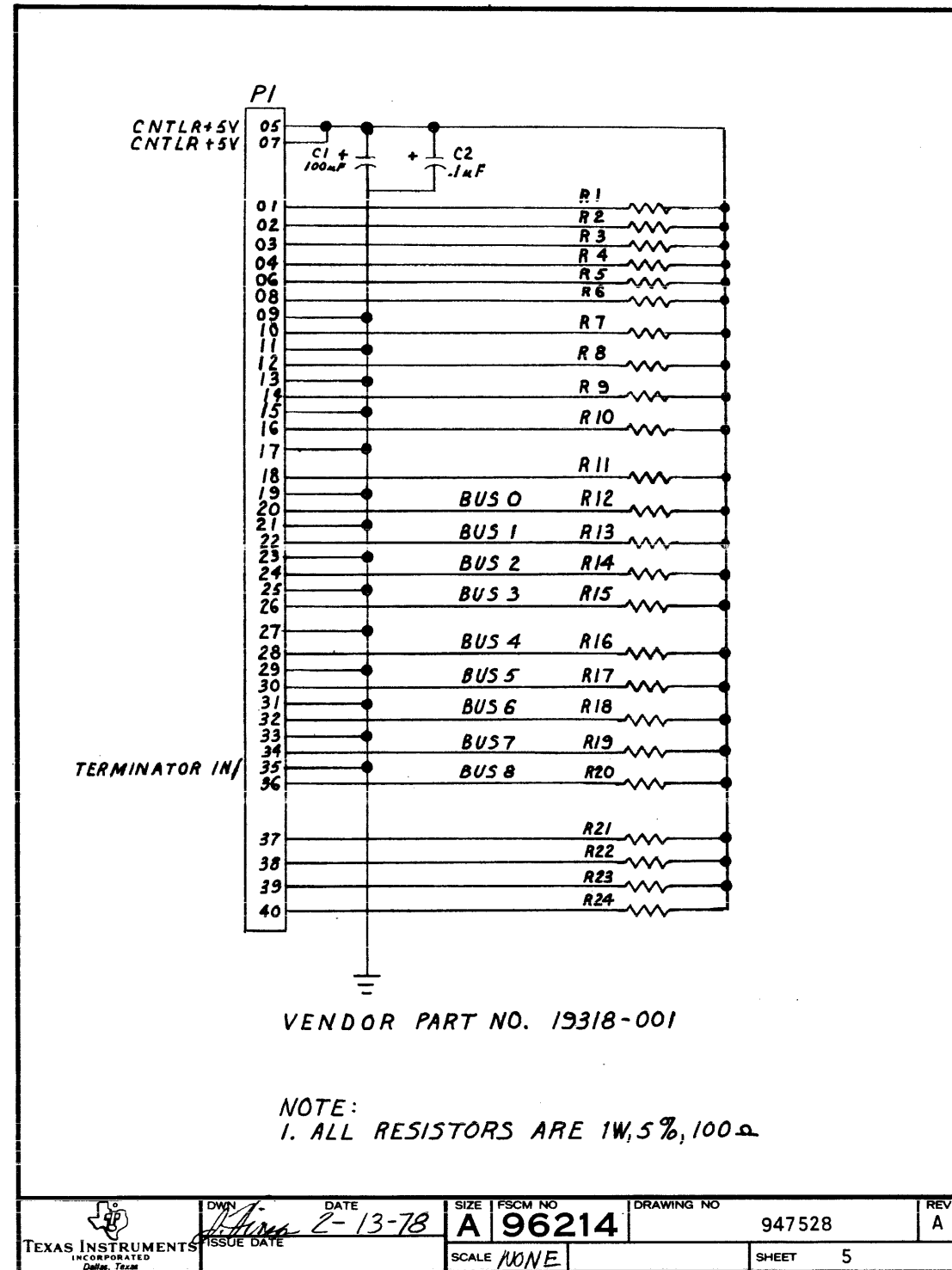
5.1.1 Packaging shall be adequate to provide protection against any damage, breakage, or loss during shipment from the supply source to the ultimate using activity.



A 947528

REV

SHEET 4



6.0 NOTES:

6.1 Unless otherwise specified, all parts shall be marked with manufacturer's identification, manufacturer's part number, and date code or inspection lot or equivalent if space permits. If space does not permit part marking, the original protective envelope or wrapping shall contain the above required information.

SUGGESTED SOURCE(S) OF SUPPLY:

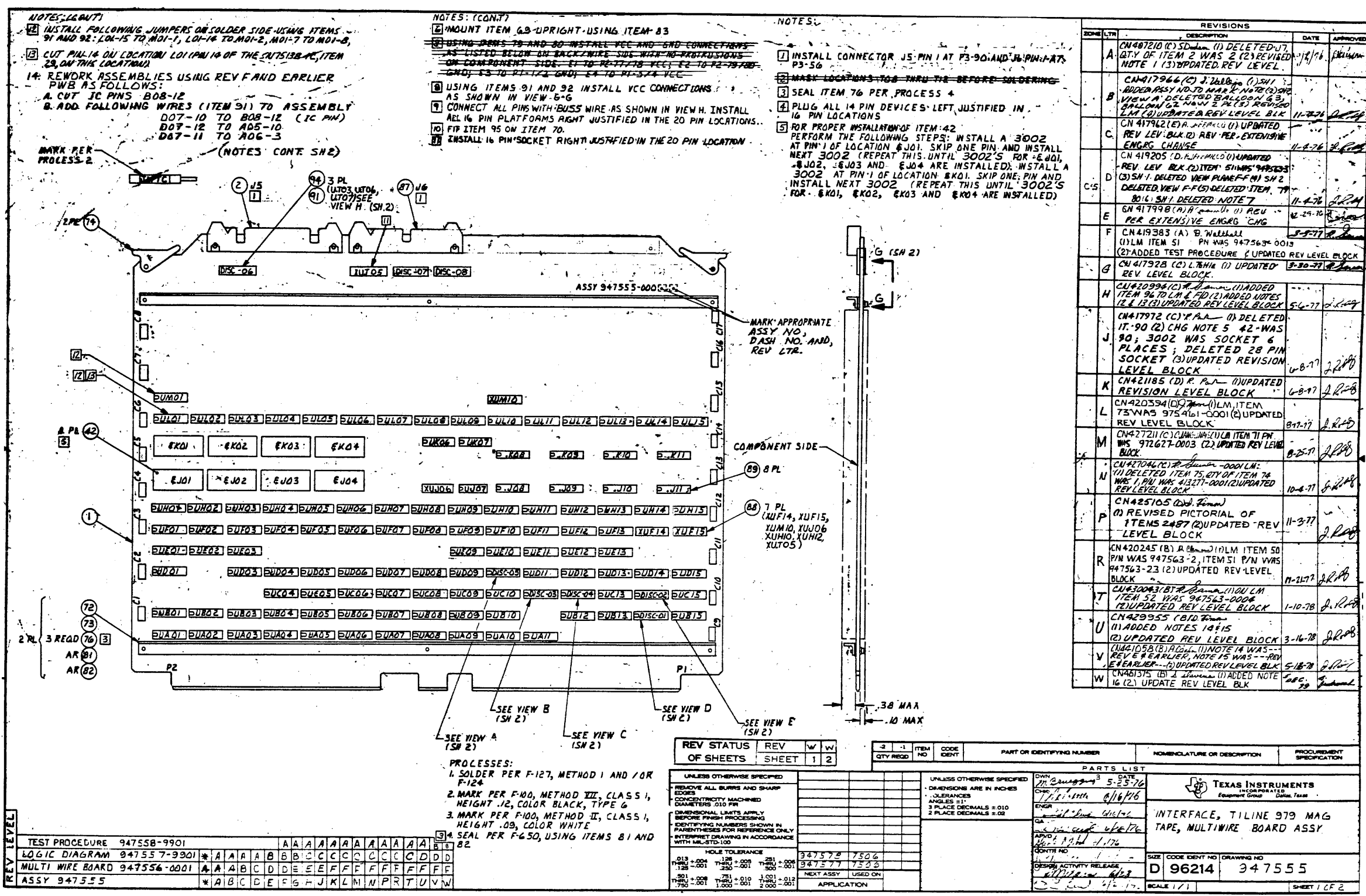
1. California Computer Products, Inc.  
2411 W. La Palma Ave.  
Anaheim, CA 92801
- 2.

PART NUMBER	MFR PART NUMBER	
	SOURCE 1	SOURCE 2
947528-0001	19318-001*	

\*Cal Comp part number 12421-001 is an acceptable substitute for 19318-001.

 TEXAS INSTRUMENTS INCORPORATED Dallas, Texas	DWN <i>[Signature]</i>	DATE 2-13-78	SIZE A	FSCM NO 96214	DRAWING NO 947528	REV A
	ISSUE DATE	SCALE NONE	SHEET 5			

 TEXAS INSTRUMENTS INCORPORATED DIGITAL SYSTEMS DIVISION HOUSTON, TEXAS	A	947528	REV A
		SHEET 6	



**NOTES: (CONT.)**  
1. INSTALL FOLLOWING JUMPERS ON SOLDER SIDE USING ITEMS 91 AND 92: L01-15 TO M01-1, L01-16 TO M01-2, M01-7 TO M01-8, ON THIS LOCATION.  
2. CUT PAL 14 ON LOCATION L01 (PIN 14 OF THE OUTSIDE IC, ITEM 23, ON THIS LOCATION).  
14. REWORK ASSEMBLYS USING REV F AND EARLIER PWB AS FOLLOWS:  
A. CUT IC PINS B08-12  
B. ADD FOLLOWING WIRES (ITEM 91) TO ASSEMBLY  
D07-10 TO B08-12 (IC PIN)  
D07-12 TO A05-10  
D07-11 TO A06-3

**NOTES: (CONT.)**  
1. MOUNT ITEM 63 UPRIGHT USING ITEM 83.  
2. USING PINS 79 AND 80 INSTALL VCC AND GND CONNECTIONS AS LISTED BELOW ON BACK WIRE SIDE WITH NO FABRICATIONS ON COMPONENT SIDE. L1 TO P2-77 TO VCC L2 TO P2-79 TO GND L3 TO P2-72 TO GND L4 TO P2-74 VCC.  
3. USING ITEMS 91 AND 92 INSTALL VCC CONNECTIONS AS SHOWN IN VIEW 5-6.  
4. CONNECT ALL PINS WITH BUSS WIRE AS SHOWN IN VIEW H. INSTALL 16 PIN PLATFORMS RIGHT JUSTIFIED IN THE 20 PIN LOCATIONS.  
5. FIP ITEM 95 ON ITEM 70.  
6. INSTALL 16 PIN SOCKET RIGHT JUSTIFIED IN THE 20 PIN LOCATION.

**NOTES:**  
1. INSTALL CONNECTOR J5 PIN 1 AT P3-90 AND PIN 1 AT P3-56.  
2. MASK LOCATIONS T08 THRU THE BEFORE SOLDERING.  
3. SEAL ITEM 76 PER PROCESS 4.  
4. PLUG ALL 14 PIN DEVICES LEFT JUSTIFIED IN 16 PIN LOCATIONS.  
5. FOR PROPER INSTALLATION OF ITEM 42 PERFORM THE FOLLOWING STEPS: INSTALL A 3002 AT PIN 1 OF LOCATION #K01. SKIP ONE PIN AND INSTALL NEXT 3002 (REPEAT THIS UNTIL 3002'S FOR #K01, #K02, #K03 AND #K04 ARE INSTALLED). INSTALL A 3002 AT PIN 1 OF LOCATION #K01. SKIP ONE PIN AND INSTALL NEXT 3002 (REPEAT THIS UNTIL 3002'S FOR #K01, #K02, #K03 AND #K04 ARE INSTALLED).

ZONE	LTR	DESCRIPTION	DATE	APPROVED
A		CM487210 (C) SD... (1) DELETED J7... QTY OF ITEM 2 WAS 2 (2) REVISED NOTE 1 (3) UPDATED REV LEVEL	11-27-76	J.R.P.
B		CM417966 (C) J. 2x18... (1) SH1... (2) DELETED BALLOON G3... (3) DELETED BALLOON G2... (4) REVISED LM (5) UPDATED REV LEVEL BLK	11-27-76	J.R.P.
C		CM 417962 (E) A. JEFFREY (U) UPDATED REV LEV. BLK (2) REV. PER. EXTENSIVE ENGRG CHNG	11-2-76	J.R.P.
D		CM 419205 (D) R. J. H. MULLO (U) UPDATED REV. LEV. BLK (2) ITEM 51 WAS 947563-0013 (3) SH 1 DELETED VIEW PLANE F (4) SH 2 DELETED VIEW F-F (5) DELETED ITEM 79 80 (6) SH 1 DELETED NOTE 7	11-2-76	J.R.P.
E		CM 417998 (A) J. H. MULLO (U) REV PER EXTENSIVE ENGRG CHG	11-2-76	J.R.P.
F		CM 419385 (A) B. Wellhall (U) LM ITEM 51 PN WAS 947563-0013 (2) ADDED TEST PROCEDURE (3) UPDATED REV LEVEL BLOCK	5-9-77	J.R.P.
G		CM 417928 (C) L. B. H. MULLO (U) UPDATED REV LEVEL BLOCK	3-30-77	J.R.P.
H		CM 420994 (C) J. H. MULLO (U) ADDED ITEM 96 TO LM & FID (2) ADDED NOTES (3) REVISED REV LEVEL BLOCK	5-6-77	J.R.P.
J		CM 417972 (C) J. P. A. (U) DELETED 17-90 (2) CHG NOTE 5 42 WAS 90; 3002 WAS SOCKET 6 PLACES; DELETED 28 PIN SOCKET (3) UPDATED REVISION LEVEL BLOCK	6-8-77	J.R.P.
K		CM 421185 (D) R. P. A. (U) UPDATED REVISION LEVEL BLOCK	6-8-77	J.R.P.
L		CM 420354 (D) J. H. MULLO (U) LM ITEM 73 WAS 975461-0001 (2) UPDATED REV LEVEL BLOCK	8-17-77	J.R.P.
M		CM 427211 (C) J. H. MULLO (U) LM ITEM 71 PN WAS 972627-0003 (2) UPDATED REV LEVEL BLK	8-25-77	J.R.P.
N		CM 427041 (C) J. H. MULLO (U) LM: (1) DELETED ITEM 75 QTY OF ITEM 74 WAS 1, PN WAS 413271-0001 (2) UPDATED REV LEVEL BLOCK	10-4-77	J.R.P.
P		CM 425105 (C) J. P. A. (U) (1) REVISED PICTORIAL OF ITEMS 2487 (2) UPDATED REV LEVEL BLOCK	11-9-77	J.R.P.
R		CM 420245 (B) A. B. H. MULLO (U) LM ITEM 50 PIN WAS 947563-2, ITEM 51 PIN WAS 947563-23 (2) UPDATED REV LEVEL BLOCK	11-21-77	J.R.P.
T		CM 420483 (B) J. H. MULLO (U) LM ITEM 52 WAS 947563-0006 (2) UPDATED REV LEVEL BLOCK	1-10-78	J.R.P.
U		CM 420955 (B) J. H. MULLO (U) (1) ADDED NOTES 14 & 15 (2) UPDATED REV LEVEL BLOCK	3-16-78	J.R.P.
V		CM 41058 (B) A. B. H. MULLO (U) NOTE 14 WAS REV E EARLIER, NOTE 15 WAS REV E EARLIER (3) UPDATED REV LEVEL BLK	5-18-78	J.R.P.
W		CM 413175 (B) J. H. MULLO (U) ADDED NOTE 16 (2) UPDATE REV LEVEL BLK	5-8-79	J.R.P.

**PROCESSES:**  
1. SOLDER PER F-127, METHOD I AND /OR F-124  
2. MARK PER F-100, METHOD III, CLASS I, HEIGHT .12, COLOR BLACK, TYPE G  
3. MARK PER F-100, METHOD II, CLASS I, HEIGHT .09, COLOR WHITE  
4. SEAL PER F-650, USING ITEMS 81 AND 82

REV LEVEL	TEST PROCEDURE 947558-9901	A	B	C	D	E	F	G	H	I	J	K	L	M	N	P	R	T	U	V	W
	LOGIC DIAGRAM 947557-9901	A	A	A	A	B	B	C	C	C	C	C	C	D	D	D	D	D	D	D	D
	MULTI WIRE BOARD 947556-0001	A	A	A	B	C	D	E	F	F	F	F	F	F	F	F	F	F	F	F	F
	ASSY 947555	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	T	U	V	W	

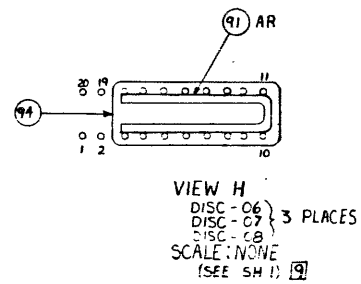
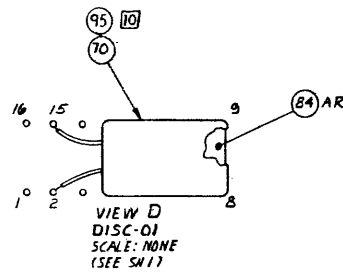
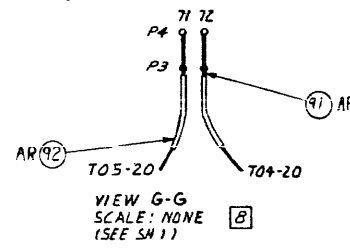
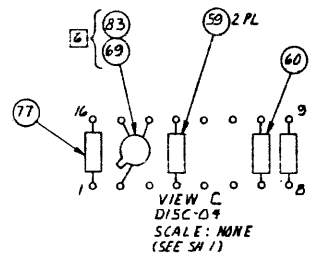
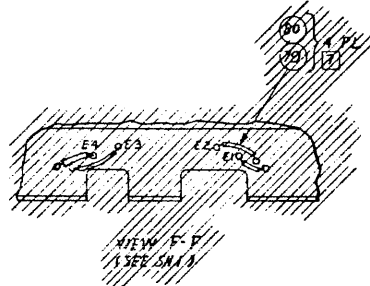
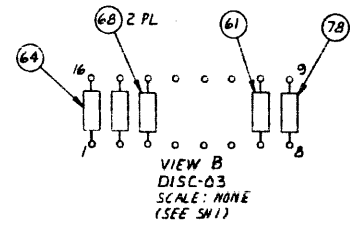
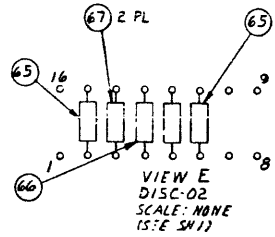
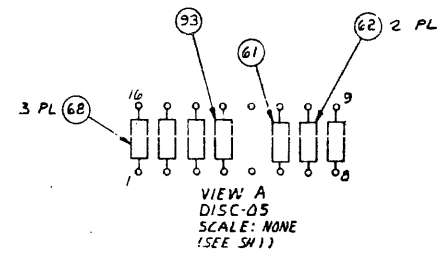
REV STATUS OF SHEETS	REV	W	W	QTY REQD	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION
UNLESS OTHERWISE SPECIFIED									
REMOVE ALL BURRS AND SHARP EDGES									
CONCENTRICITY MACHINED DIAMETERS .010 P/R									
DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING									
PARENTHESES FOR REFERENCE ONLY									
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100									
HOLE TOLERANCE									
0.13 - .004	THRU	+.003	-.001	347578	7506				
.125 - .001	THRU	+.001	-.001	347577	7503				
.101 - .001	THRU	+.010	-.001						
.750 - .001	THRU	+.010	-.012						

**TEXAS INSTRUMENTS**  
 CORPORATION  
 Equipment Group Dallas, Texas

INTERFACE, TILINE 979 MAG TAPE, MULTIWIRED BOARD ASSY

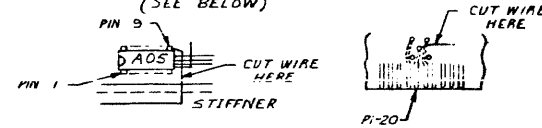
SIZE CODE IDENT NO DRAWING NO  
 D 96214 347555

SCALE 1/1 SHEET 1 OF 2



NOTES CONT.  
15. REWORK ASSEMBLIES USING REV D THRU F PWB AS FOLLOWS:

A. CUT THE TLTM-WIRE, RUN TWO PLACES ON COMPONENT SIDE. CUT NEAR A05-9 AND NEAR P1-20 CONNECTOR FEEDTHROUGH (SEE BELOW)



B. ADD FOLLOWING WIRE (ITEM 91) TO LEAD SIDE OF BOARD. A05-9 TO P1-20 (FEEDTHROUGH NEAR CONNECTOR PIN)

16. REWORK ASSY'S. USING REV F AND EARLIER PWB AS FOLLOWS:

A. AT DEVICE UHQ4 (SN 74574) CUT PIN 15 LEAVING ENOUGH LEAD FOR REWORK WIRE ON PACKAGE  
B. ADD 30 AWG WIRE FROM UHQ4 PIN 15 (FK6) TO UHQ4 PIN 14

SIZE	CODE	IDENT NO	DRAWING NO
D	96214	947555	
SCALE	1/1		SHEET 2

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		DATE 01/05/78		PAGE 1 of		PART NUMBER LM 947555-0001		REV W#	
REV. ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00001.000	EA		0947556-0001	BOARD-MULTI-WIRE, TMTC						
0007	00001.000	EA		0972137-0010	CONNECTOR P.C.HFA	BFI - 55493-020					
0007A					J5						
0003	FFF	FA		0947557-9901	LOGIC DIAGRAM, TILINE 979 MAG TAPE 1/F						
0004	FFF	FA		0947558-9901	TEST PROC., UNIT, TMTC						
0005	00002.000	FA		0972900-7400	NETWORK SN74LS00N	TI - SN74LS00N					
0005A					UB07 UF07						
0006	00003.000	FA		0240000-7400	NETWORK-SN74H00N						
0006A					UB08 UB10 UB07						
0007	00001.000	FA		0972900-7407	NETWORK SN74LS02N						
0007A					UD08						
0008	00001.000	FA		0222227-7404	NETWORK SN7404N						
0008A					UD14						
0009	00003.000	FA		0972900-7404	NETWORK SN74LS04N						
0009A					UC04 UD12 UF17						
0010	00007.000	FA		0240000-7404	NETWORK SN74H04N						
0010A					UB06 UF07						
0011	00002.000	FA		0222227-7406	NETWORK SN7404N						
0011A					UL10 UL11						
0012	00003.000	FA		0222227-7407	NETWORK-SN7407N	TI - SN7407N					
DRAFTSMAN: <i>J.R.M.</i> DATE: 1-6-78 TITLE: INTERFACE, TILINE 979 MAG TAPE APP'D-MFG: DATE: PROJECT ENGINEER: DATE: RELEASED: DATE: PROJECT NO: 7506 PART NUMBER: LM 947555-0001 REV: W#											

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		DATE 01/05/78		PAGE 2 of		PART NUMBER LM 947555-0001		REV W#	
REV. ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0012A					UC09 UL08 UL09						
0013	00004.000	FA		0972749-0001	NETWORK, SN74LS08N						
0013A					UC07 UC15 UD05 UD06						
0014	00001.000	FA		0972900-7410	NETWORK SN74LS10N						
0014A					UC05						
0015	00001.000	FA		0240000-7411	NETWORK-SN74H11N						
0015A					UD11						
0016	00003.000	FA		0972900-7420	NETWORK SN74LS20N						
0016A					UD13 UD15 UF01						
0017	00002.000	EA		0972900-7432	NETWORK SN74LS32N	TI - SN74LS32N					
0017A					UC13 UD07						
0018	00001.000	FA		0222222-7437	NETWORK SN7437N						
0018A					UF08						
0019	00001.000	FA		0240000-7451	NETWORK-SN74H51N						
0019A					UB09						
0020	00001.000	FA		0972900-7474	NETWORK SN74LS74N						
0020A					UA11						
0021	00002.000	FA		0240000-7474	NETWORK-SN74H74N						
0021A					UC06 UC08						
0022	00001.000	FA		0972751-0001	NETWORK, SN74LS86N						
DRAFTSMAN: DATE: CED: DRAFTSMAN: DATE: DESIGN ENGINEER: DATE: TITLE: INTERFACE, TILINE 979 MAG TAPE APP'D-MFG: DATE: PROJECT ENGINEER: DATE: RELEASED: DATE: PROJECT NO: PART NUMBER: LM 947555-0001 REV: W#											

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		DATE 01/05/78		PAGE 3 of		PART NUMBER LM 947555-0001		REV W#	
REV. ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0022A					UE11						
0023	00003.000	FA		0972900-7109	NETWORK SN74LS109N	TI - SN74LS109N					
0023A					UF10 UF13 UF10						
0024	00001.000	FA		0222227-7125	NETWORK SN74125N						
0024A					UF11						
0025	00002.000	FA		0222227-7126	NETWORK SN74126N	TI - SN74126N					
0025A					UF17 UF13						
0026	00002.000	FA		0222227-7132	NETWORK SN74132N						
0026A					UC10 UD09						
0027	00002.000	FA		0972900-7138	NETWORK SN74LS138N	TI - SN74LS138N					
0027A					UF09 UH09						
0028	00001.000	EA		0219402-7139	NETWORK SN74LS138N						
0028A					UB12						
0029	00003.000	FA		0974674-0001	NETWORK SN75138N						
0029A					UA05 UA06 UL01						
0030	00001.000	FA		0222227-7148	NETWORK SN74148N						
0030A					UH14						
0031	00001.000	FA		0219402-7153	NETWORK SN74LS153N	TI - SN74LS153N					
0031A					UH05						
0032	00004.000	FA		0972686-0001	NETWORK-QUAD MULTIPLEXER, SN74LS157N						
DRAFTSMAN: DATE: CED: DRAFTSMAN: DATE: DESIGN ENGINEER: DATE: TITLE: INTERFACE, TILINE 979 MAG TAPE APP'D-MFG: DATE: PROJECT ENGINEER: DATE: RELEASED: DATE: PROJECT NO: PART NUMBER: LM 947555-0001 REV: W#											

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		DATE 01/05/78		PAGE 4 of		PART NUMBER LM 947555-0001		REV W#	
REV. ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0032A					UF03 UF04 UF05 UF06						
0033	00002.000	FA		0219402-7157	NETWORK SN74LS157N						
0033A					UH07 UH06						
0034	00003.000	FA		0222227-7173	NETWORK SN74173N						
0034A					UH07 UF01 UF02						
0035	00003.000	FA		0972900-7174	NETWORK SN74LS174N						
0035A					UH13 UL06 UL07						
0036	00002.000	FA		0222227-7180	NETWORK SN74180N						
0036A					UE03 UL05						
0037	00003.000	FA		0219402-7187	NETWORK SN74LS187N	TI - SN74LS187N					
0037A					UH01 UH03 UH07						
0038	00003.000	FA		0972665-0001	NETWORK SN74LS257N						
0038A					UB01 UB02 UB03						
0039	00006.000	FA		0972787-0003	NETWORK SN74LS367N						
0039A					UA01 UA02 UA03 UA04 UA04						
0039B					UH15						
0040	00005.000	FA		0972856-0001	NETWORK, SN74376N						
0040A					UL03 UL12 UL13 UM14 UL15						
0041	00003.000	FA		0974949-0001	NETWORK, DM8136						
0041A					UA08 UA09 UA10						
DRAFTSMAN: DATE: CED: DRAFTSMAN: DATE: DESIGN ENGINEER: DATE: TITLE: INTERFACE, TILINE 979 MAG TAPE APP'D-MFG: DATE: PROJECT ENGINEER: DATE: RELEASED: DATE: PROJECT NO: PART NUMBER: LM 947555-0001 REV: W#											



TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 5 of		LM 947555-0001 W/P	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER	
0042	00008.000	EA		0974859-0001	NETWORK, RT-POLAR 7BIT PROCESSOR -3007		
0042A					EJ01 EJ02 EJ03 EJ04 EK01		
0042B					EK02 EK03 EK04		
0043	00001.000	FA		0222222-7438	NETWORK SN7438N		
0043A					UE09		
0044	00001.000	FA		0219402-7474	NETWORK SN74574N		
0044A					UH04		
0045	00001.000	FA		0219402-7760	NETWORK SN745260N		
0045A					UH08		
0046	00001.000	EA		0972900-7279	NETWORK, SN74LS279		
0046A					UH11		
0047	00001.000	FA		0972556-0001	NETWORK SN74367N	TI -	-SN74367N
0047A					UR05		
0048	00002.000	EA		0996035-0002	IC, 4 BIT COUNTER SN74393	TI	-SN74393
0048A					UB13 UB15		
0049	00001.000	FA		0947563-0001	MTC MICROPROGRAM PROM NO.1		
0049A					.K08		
0050	00001.000	FA		0947563-0012	MTC MICROPROGRAM PROM NO.8		
0050A					.K09		
0051	00001.000	FA		0947563-0033	MTC MICROPROGRAM PROM NO.9		
DRAFTSMAN DATE C/D DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE							
INTERFACE, TILINE 979 MAG TAPE							
APPRO. MFG DATE APPRO. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV							
LM 947555-0001 W/P							

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 6 of		LM 947555-0001 W/P	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER	
0051A					.K10		
0052	00001.000	EA		0947563-0014	MTC MICROPROGRAM PROM NO.10		
0052A					.K11		
0053	00001.000	FA		0947563-0005	MTC MICROPROGRAM PROM NO.5		
0053A					.J11		
0054	00001.000	FA		0947573-0001	PROM, 32XB, 800LEA, MTC NO.1		
0054A					UH12		
0055	00001.000	FA		0947573-0002	PROM, 32XB, 800LEA, MTC NO.2		
0055A					UH10		
0056	00003.000	FA		0800118-0008	RESISTOR 1.0K OHMS 01L PULL UP 16 PINS	RFC	-8981R1.0K
0056A					UD01 UD03 UD04		
0057	00003.000	EA		0996102-0001	IC, MICRO-ADDRESS GENERATOR SN74S482N	TI	-SN74S482N
0057A					.J08 .J09 .J10		
0058	00002.000	FA		0972547-0008	SWITCH, SLIDF-SPST, 01P 8 SWITCHES		
0058A					UK06 UK07		
0059	00002.000	FA		0972975-0033	RES FIX COMP 220 OHMS 5 % 1/8 WATT	OPL	-RC05G221JS
0059A					UC12-4 UC12-8		
0060	00001.000	FA		0972965-0008	CAP FIX CERAMIC .0047 MF 10K 200 V	OPL	-CC03X472K
0060A					UC12-7		
0061	00002.000	FA		0972927-0044	CAP FIX MICA 300V 510 PF 5 %	OPL	-C405F511J0C
DRAFTSMAN DATE C/D DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE							
INTERFACE, TILINE 979 MAG TAPE							
APPRO. MFG DATE APPRO. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV							
LM 947555-0001 W/P							

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 7 of		LM 947555-0001 W/P	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER	
0061A					U710-6 UC11-7		
0062	00002.000	FA		0972927-0045	CAP FIX MICA 300V 560 PF 5 %	OPL	-C405F561J0C
0062A					UD10-7 UD10-8		
0064	00001.000	FA		0972975-0049	RES FIX COMP 1.0 K OHMS 5% 1/8 WATT	OPL	-RC05G102JS
0064A					UC11-1		
0065	00002.000	EA		0972927-0020	CAP FIX MICA 500V 51.0 PF 5 %	OPL	-C405F510J0D
0065A					UC14-7 UC14-6		
0066	00001.000	FA		0972929-0391	CAP FIX CERAMIC 470 PF 10 % 200 V	OPL	-439014/01-1391
0066A					UC14-4		
0067	00002.000	FA		0972975-0041	RES FIX COMP 470 OHMS 5 % 1/8 WATT	OPL	-RC05G471JS
0067A					UC14-3 UC14-5		
0068	00005.000	FA		0972975-0037	RES FIX COMP 330 OHMS 5 % 1/8 WATT	OPL	-RC05G331JS
0068A					UD10-1 UD10-2 UD10-3 UF11-2		
0068B					UC11-3		
0069	00001.000	FA		0972948-0002	TRANSISTOR, 2N2222A NPN GEN PURP SW TO-18	TI	-2N2222A
0069A					UC12-2		
0070	00001.000	FA		0418801-0003	CRYSTAL, QUARTZ 3.840 MHZ HC-19/U	OPL	-CR-64/U
0070A					UB14-2		
0071	00017.000	FA		0972763-0021	CAP., FIXED, AXIAL LEAD, .047 UF, +80%, -20%		
0071A					C1 THRU C17		
DRAFTSMAN DATE C/D DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE							
INTERFACE, TILINE 979 MAG TAPE							
APPRO. MFG DATE APPRO. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV							
LM 947555-0001 W/P							

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		DATE 01/05/78	PAGE 8 of	PART NUMBER LM947555-0001	REV W*
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER	
0072	00302.000	FA		0966486-0001	INSULATOR PWR STIFFENER		
0073	00002.000	FA		0945239-0001	BRACKET-STIFFENER, PWR, 14IN		
0074	00002.000	FA		0533844-0001	EJECTOR, NYLON, NON-LOCKING, PWR		
0076	00006.000	FA		0972988-0003	SCREW 2-56 X .250 PAN HEAD CRFS		
0077	00001.000	FA		0972975-0060	RES FIX COMP 3.0 K OHMS 5% 1/4 WATT	OPL	- RC05G302J5
0077A					UC12-1		
0078	00001.000	FA		0972929-0400	CAP.FIXED CERAMIC,.0015UF 10% 100V		
0078A					UC11-8		
0081	AR	QT		0415804-0005	SEALING COMPOUND,ANAEROBIC-BLUE GRADE C		
0082	AR	QT		0415804-0010	PRIMER,SEALING COMPOUND,ANAEROBIC		
0083	00001.000	FA		0185113-0001	X SPACER XST TD-18 CASE	*	-
0084	AR	FA		0096069-0003	ADH,SOLID,THRMPLSTC 25# BAG ANAEROBIC	PEPSAL-917-6307	
0086	00002.000	FA		0972925-0001	NETWORK,RESISTOR 28 ELEMENT 16 PIN DIP	BFC	--898-5-R 220/3
0086A					UL07 UL04		
0087	00001.000	FA		0972137-0009	CONNECTOR P.C.HEADER	RFI	- 55493-019
0087A					JA		
0088	00007.000	EA		0539544-0002	SOCKET,16PIN IC LOW PROFILE SOLDER TAIL	TI	-C93-16-02
0088A					XUF14 XUF15 XUM10 X'1H10		
0088B					XUM12 XUJ06 XUT05		
0089	00008.000	FA		0539544-0010	SOCKET,20PIN IC LOW PROFILE SOLDER TAIL	TI	-C93-20-02
DRAFTSMAN		DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE
					INTERFACE,TILINE 979 MAG TAPE		
APPD. MFG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.
					PART NUMBER	REV	
					LM947555-0001	W*	

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		DATE 01/05/78	PAGE 9 of	PART NUMBER LM947555-0001	REV W*
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER	
0089A					XUJ08 XUJ09 XUJ10 XUJ11		
0089B					XUJ08 XUJ09 XUJ10 XUJ11		
0091	00001.000	FT		0411400-0024	WIRE, 24AWG ELECTRON TIN PLATED COPPER		
0092	00001.000	FT		0410499-0005	SLEEVE,TFEFLON #24 NATURAL	OPI	- MTL-1-22129
0093	00001.000	FA		0999999-9702	RESISTOR SELECTED AT UNIT TEST		
0093A					U710-4		
0094	00003.000	FA		0800392-0002	PLUG,ADAPTOR,COMPONENT		616-C0-1
0094A					U703 U706 U707		
0095	AR	FT		0411634-1310	SLEEVE,PVC, .133 DIA. CLEAR	OPL	- MTL-1-631
0096	00001.000	FA		0972784-0002	NETWORK SN74LS14N		
0096A					UM01		
DRAFTSMAN		DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE
					INTERFACE,TILINE 979 MAG TAPE		
APPD. MFG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.
					PART NUMBER	REV	
					LM947555-0001	W*	

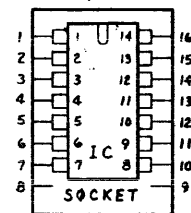
NOTES: UNLESS OTHERWISE SPECIFIED;

1. ALL DEVICE TYPES ARE PREFIXED WITH SN74.
2. GROUND IS APPLIED TO PIN 7 OF ALL 14-PIN IC'S AND PIN 8 OF ALL 16-PIN IC'S.
3. VCC IS APPLIED TO PIN 14 OF ALL 14-PIN IC'S AND PIN 16 OF ALL 16-PIN IC'S.
4. DEVICE TYPE, PIN NUMBERS, AND LOCATION OF IC IS SHOWN AS FOLLOWS:



00 AND 04 = DEVICE TYPE  
 4, 5 AND 6 = PIN NUMBERS  
 B08 AND D14 = LOCATION; FIRST LETTER DENOTES ROW, SECOND AND THIRD DIGITS DENOTE COLUMN, IC IS LOCATED AT INTERSECTION OF ROW AND COLUMN.

5. WHEN A 14-PIN IC IS USED IN A 16-PIN SOCKET, THE IC PIN NUMBER SHOWN ON THE LOGIC DIAGRAM IS THE SAME AS THE SOCKET PIN NUMBER. THEREFORE; IC PIN 8 IS LABELED PIN 10, IC PIN 9 IS LABELED PIN 11, ECT.



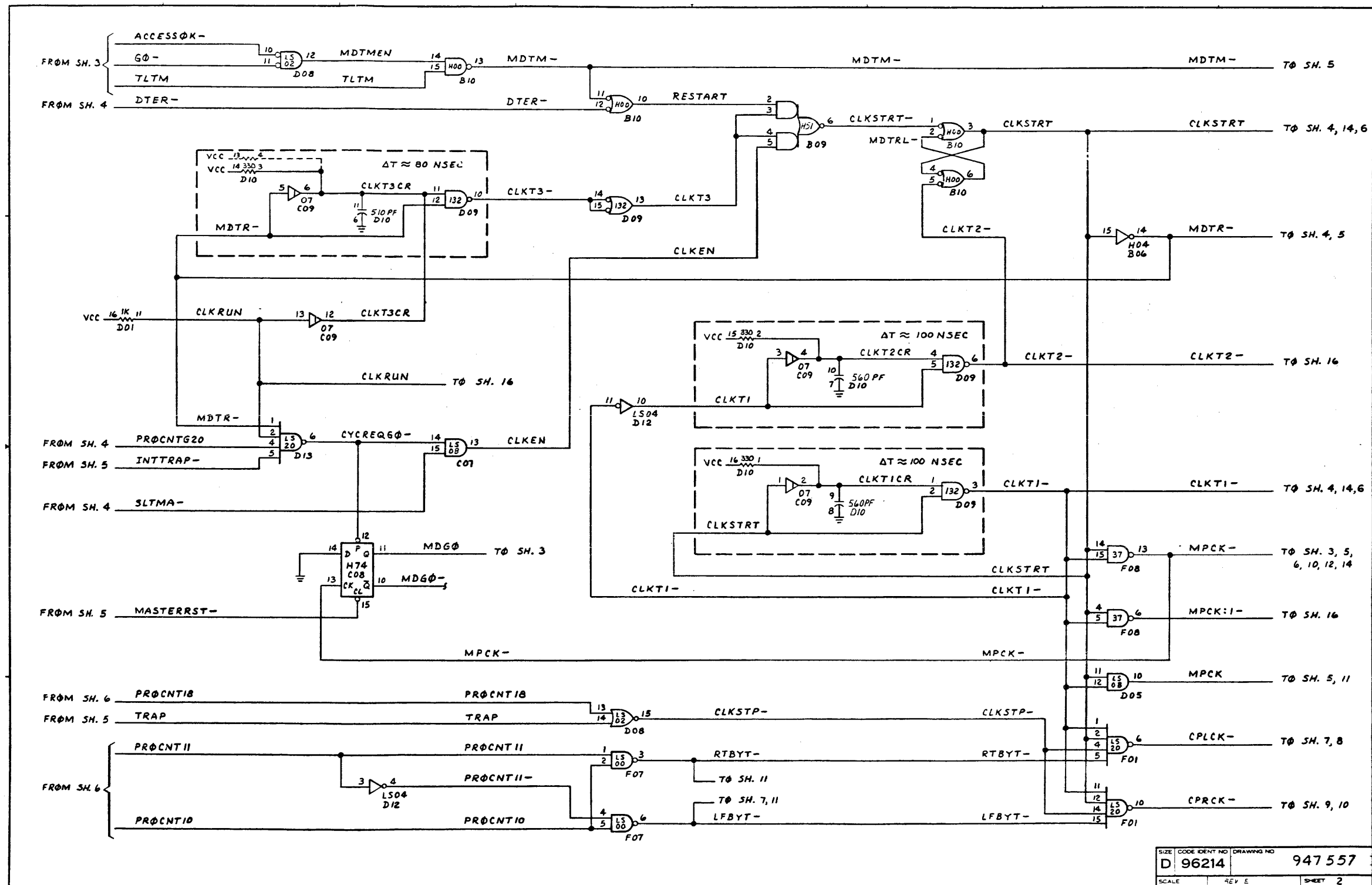
REVISIONS			
ZONE	LTR	DESCRIPTION	DATE
A		0085701 217	7-1-76
B		CN 418006 (C)	7-1-76
C		CN420995 (D) R.A.	7-1-76
D		CN423956 (L) R.O.	7-1-76
E		DU437854 (E) J.M.	7-1-76

REV STATUS	REV	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
OF SHEETS	SHEET																

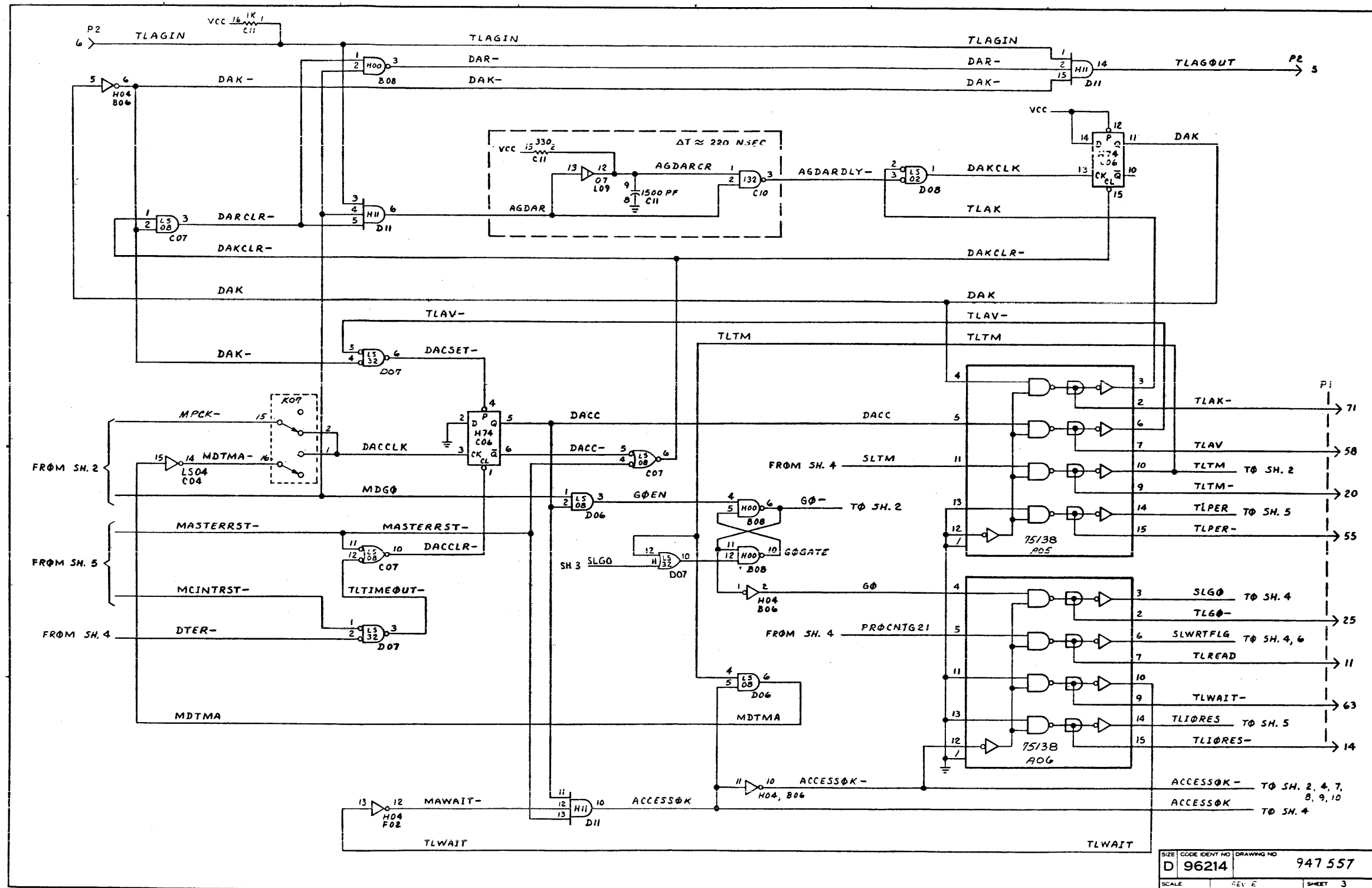
QTY	REGD	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION

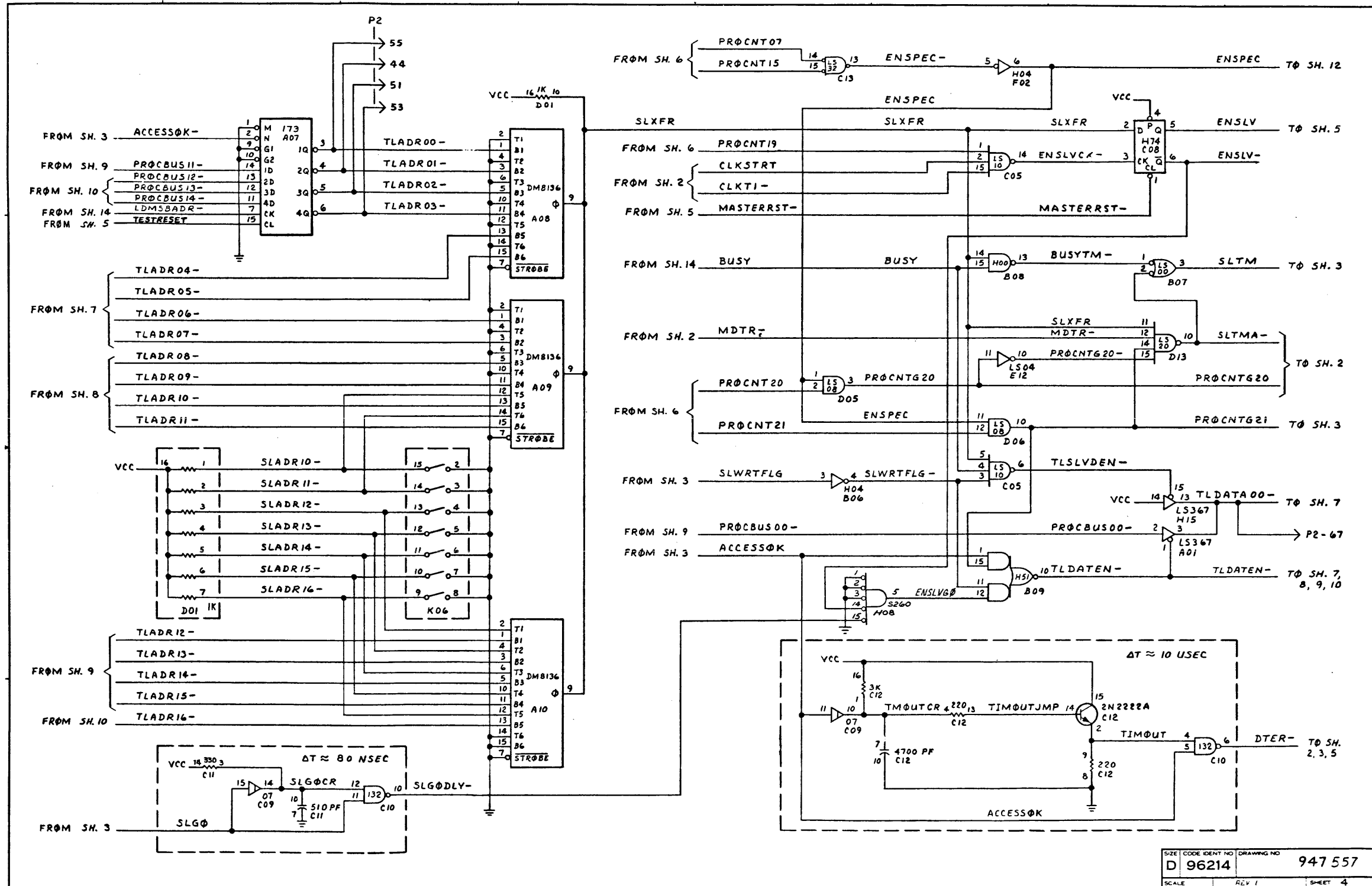
UNLESS OTHERWISE SPECIFIED		UNLESS OTHERWISE SPECIFIED	
REMOVE ALL BURRS AND SHARP EDGES	CONCENTRICITY MACHINED DIAMETERS = 0.10 FIB	DIMENSIONS ARE IN INCHES	TOLERANCES: ANGLES ±1°; 3 PLACE DECIMALS = 0.10; 2 PLACE DECIMALS = 0.02
DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING	IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY		
HOLE TOLERANCE		HOLE TOLERANCE	
0.13 +.004	.126 +.005	.251 +.006	
THRU -.001	THRU .250	THRU .500	
501	751	1.001	
THRU +.008	THRU +.010	THRU +.012	
THRU -.001	THRU 1.000	THRU 2.000	

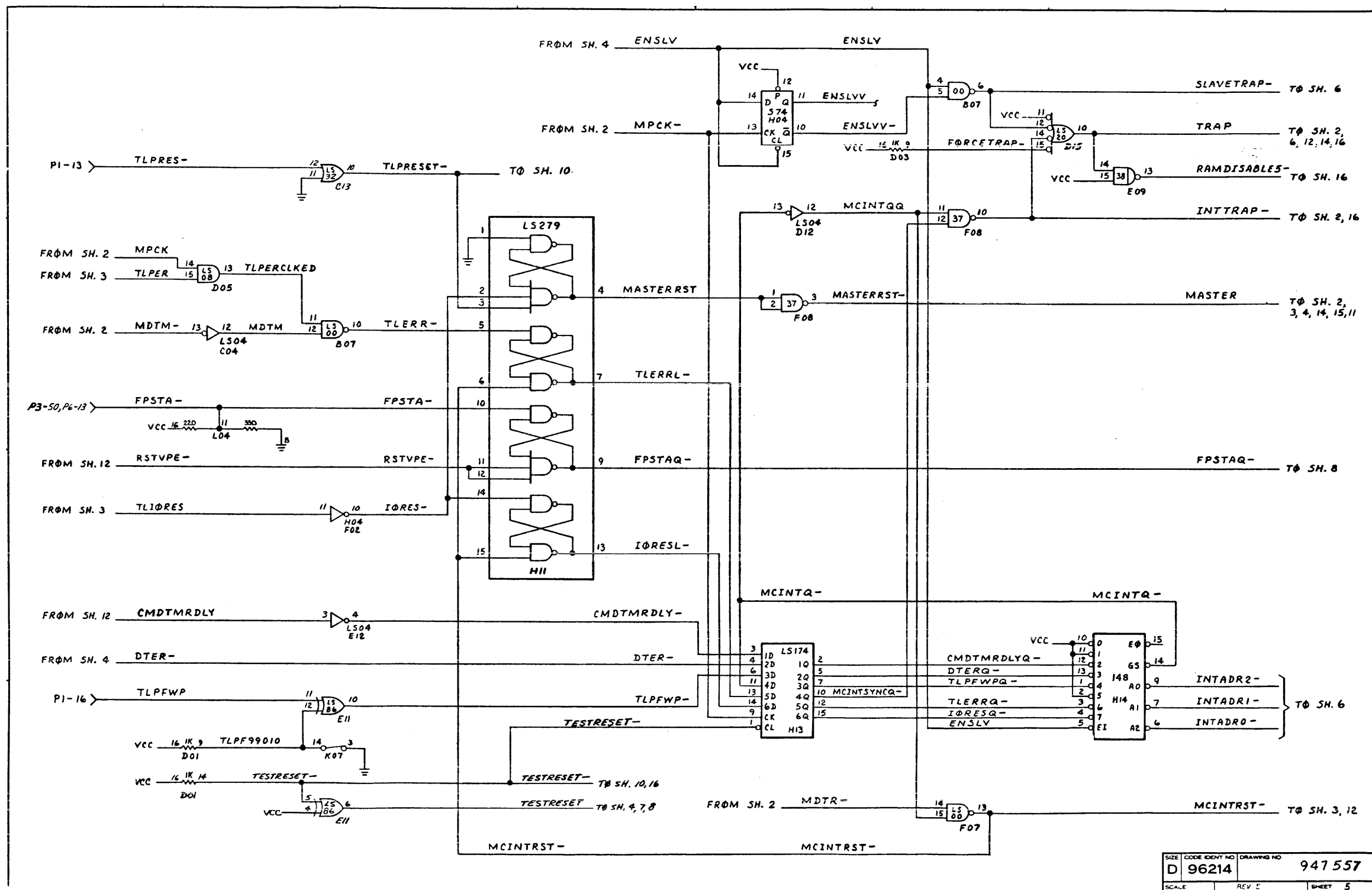
DWN C. KEELER 6-12-76 ENGR S. KEELER 6-24-76 DATE 6-24-76 CONTR NO DESIGN ACTIVITY RELEASE	TEXAS INSTRUMENTS INCORPORATED Equipment Group Dallas Texas LOGIC DIAGRAM, TILINE 979 - MAGTAPE CONTROLLER (MULTIWIRE) SIZE CODE IDENT NO DRAWING NO D 96214 947557 SCALE SHEET 1 OF 16
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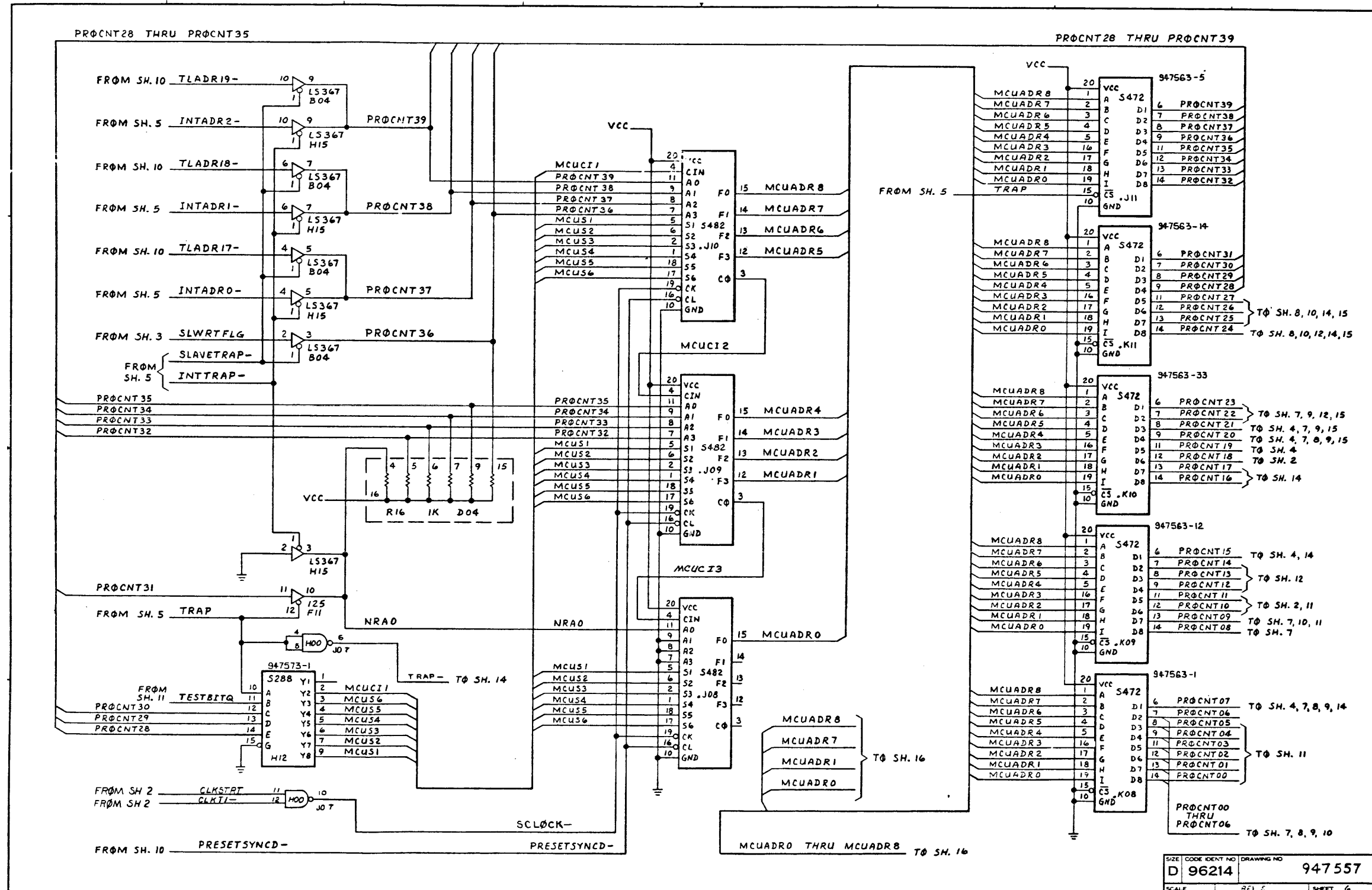
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SCALE	REV E	SHEET 2



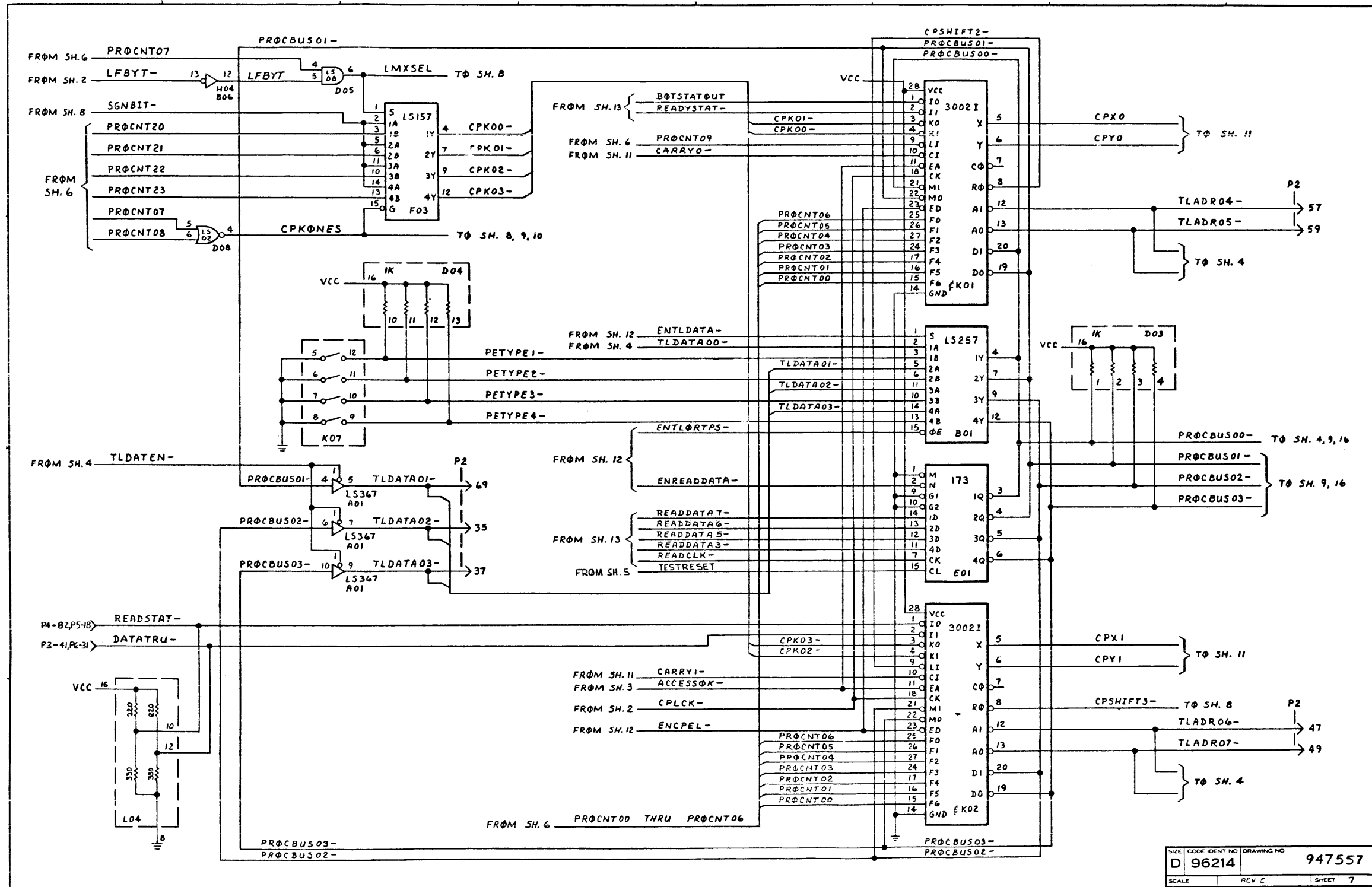




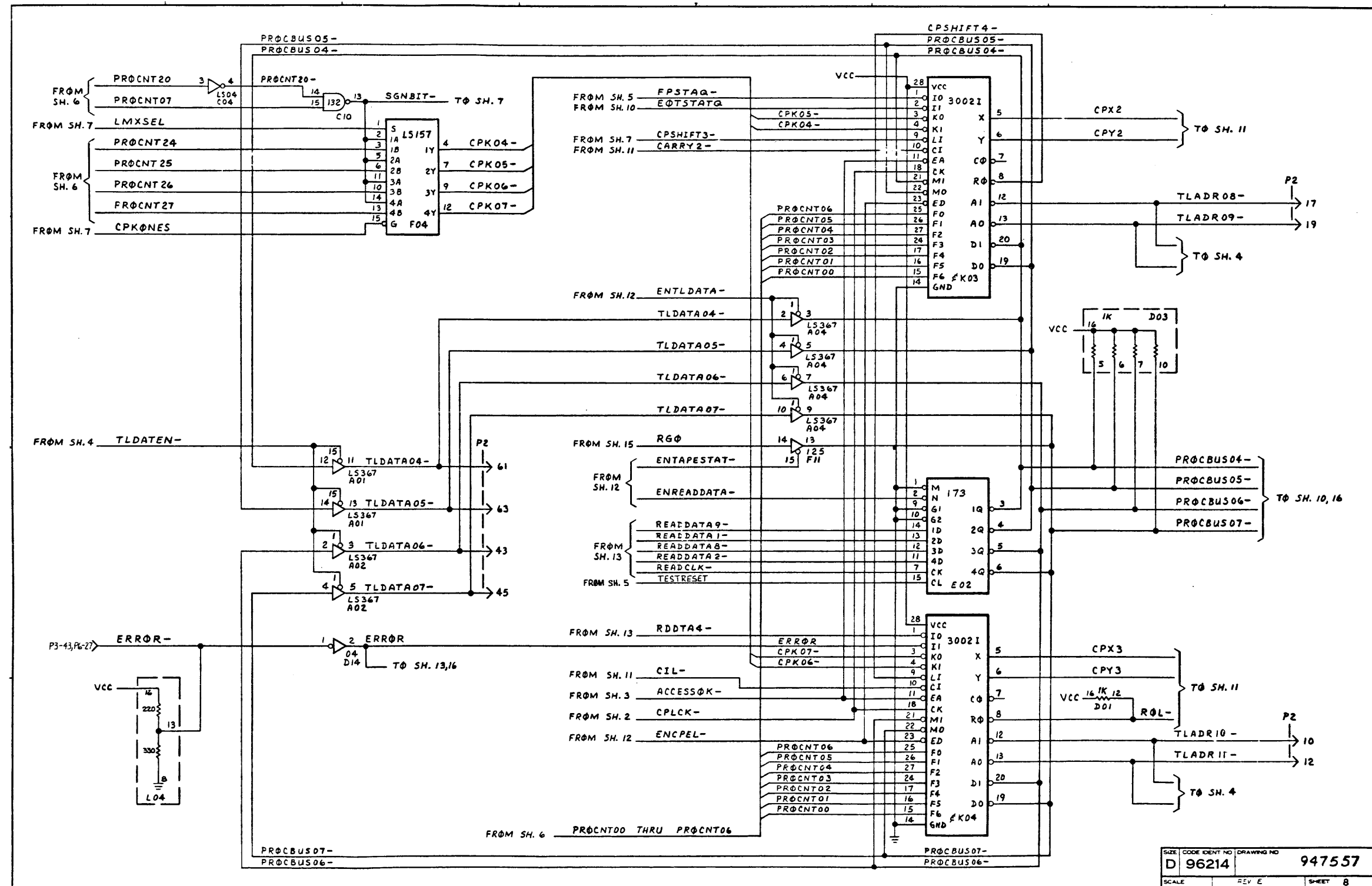
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D	96214	947 557
SCALE	REV E	SHEET 5

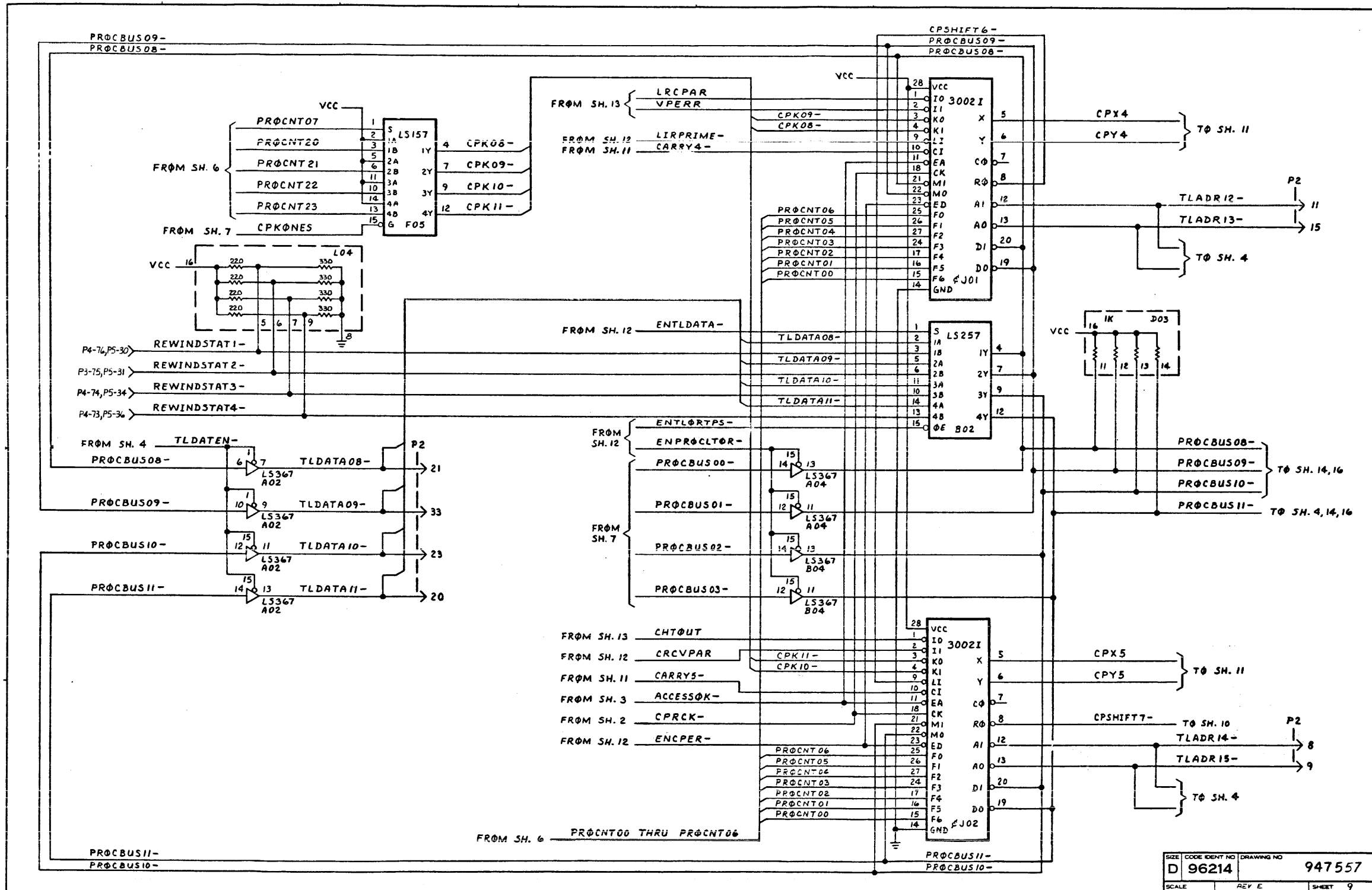




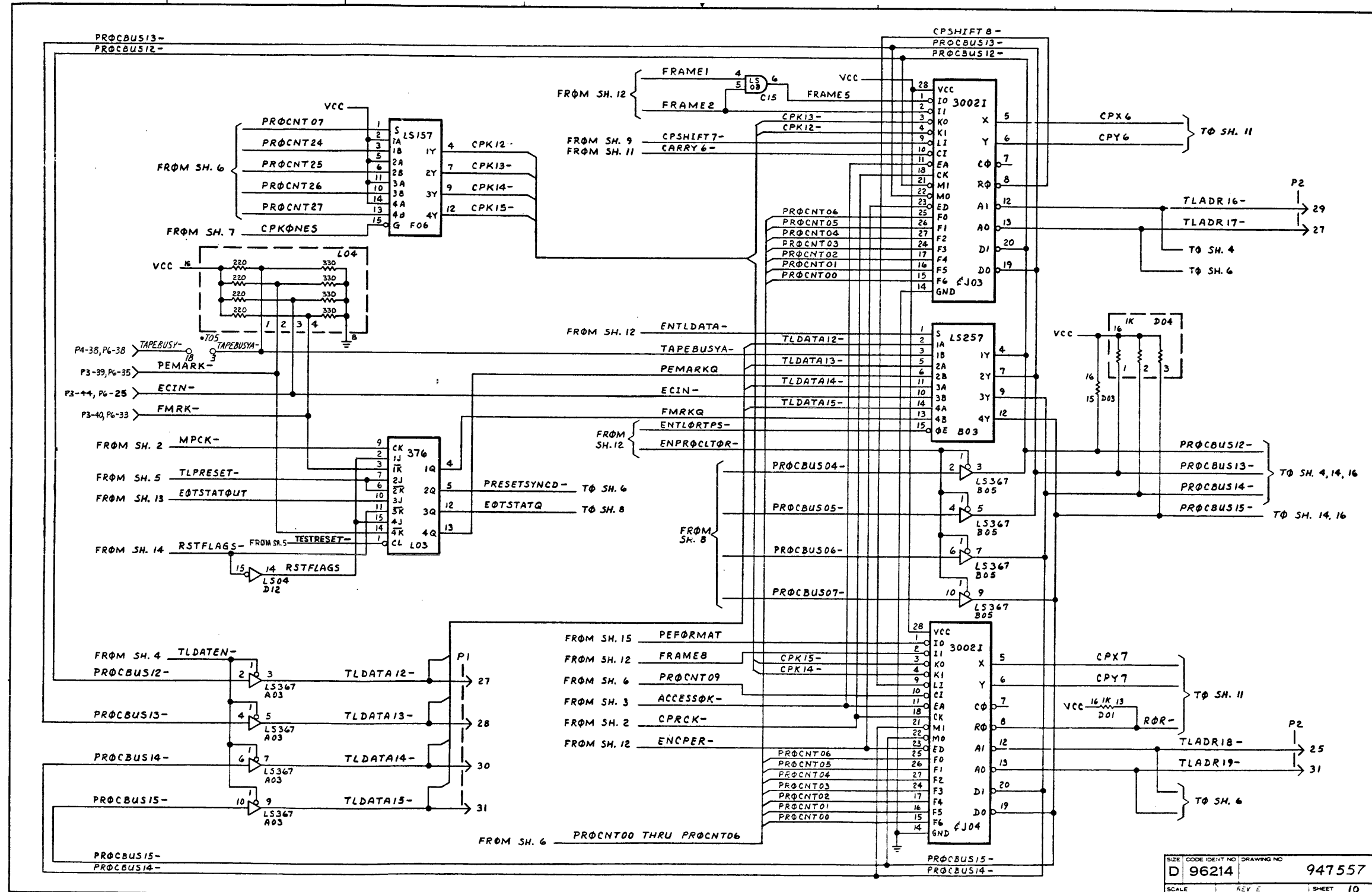


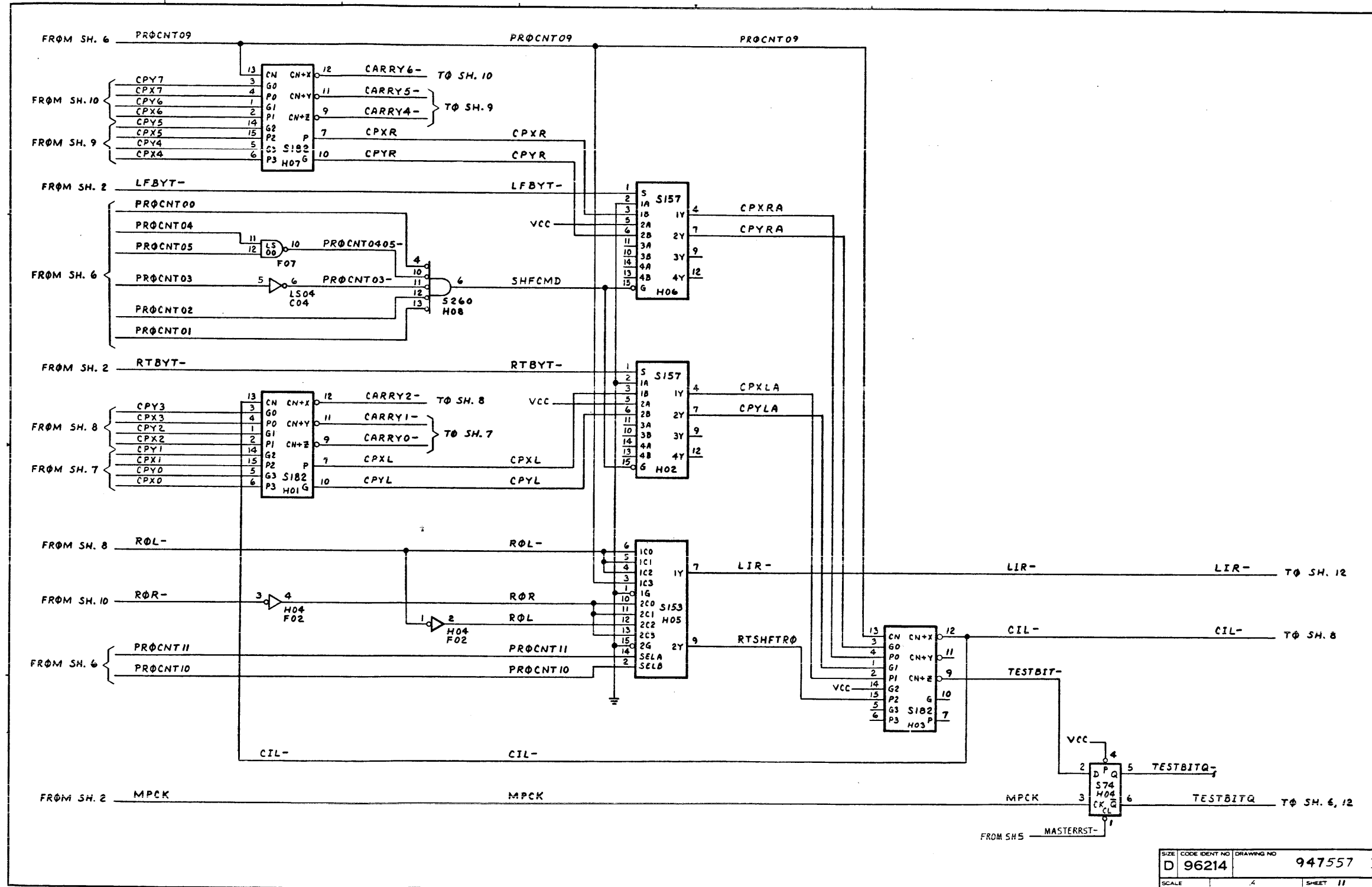
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D	96214	947557
SCALE	REV E	SHEET 7



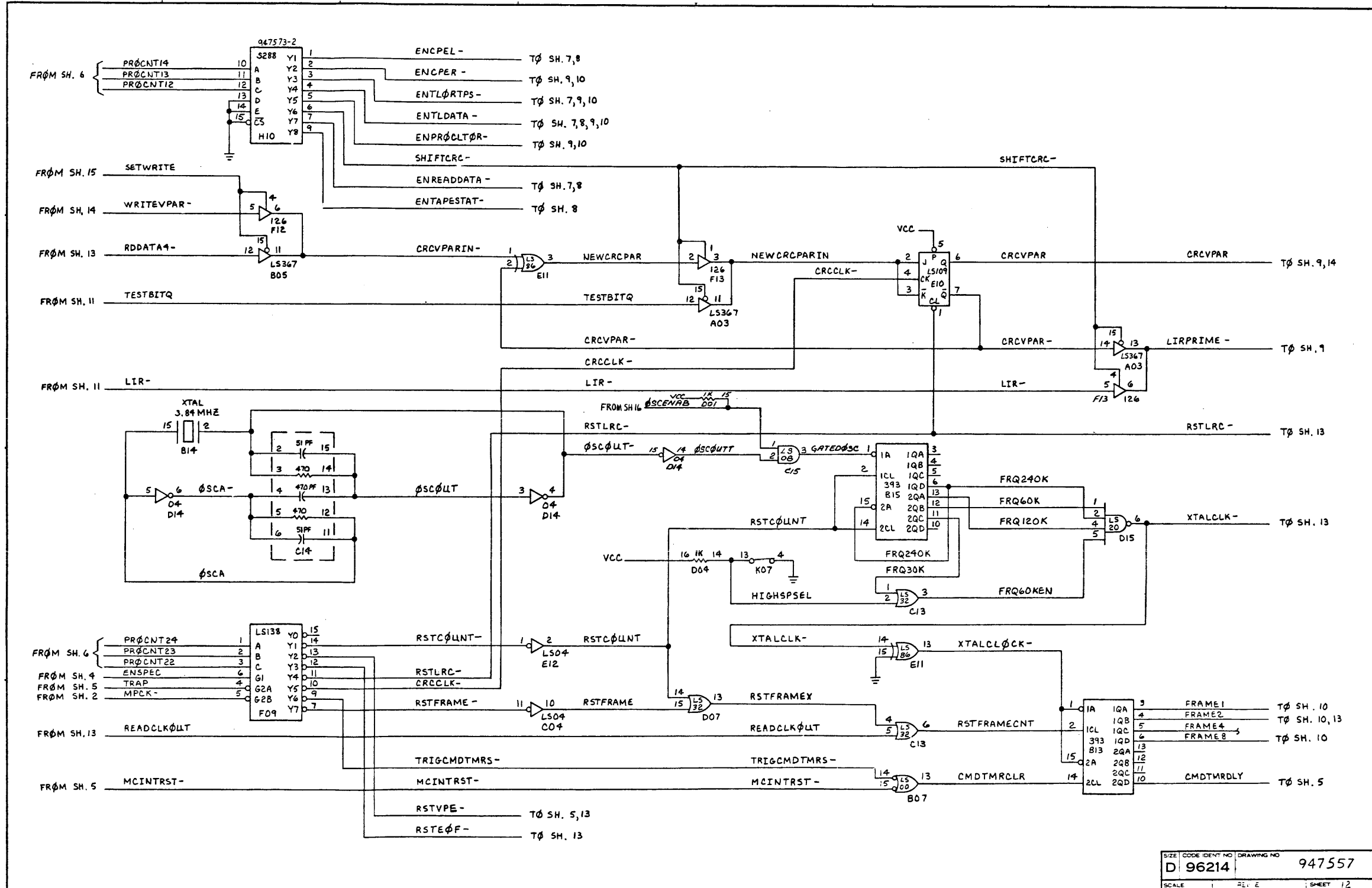


SIZE	CODE IDENT NO	DRAWING NO
D	96214	947557
SCALE	REV E	SHEET 9

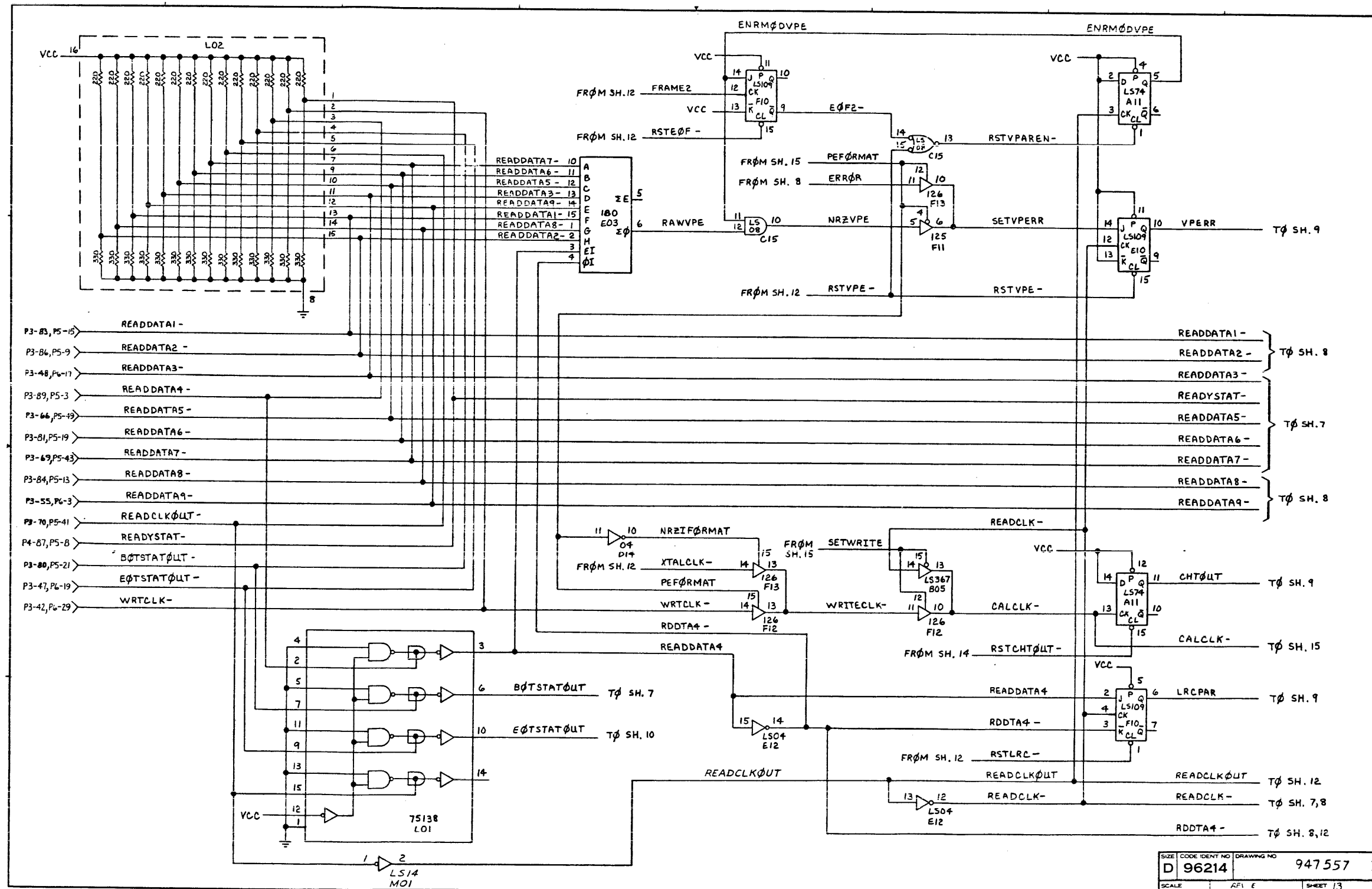




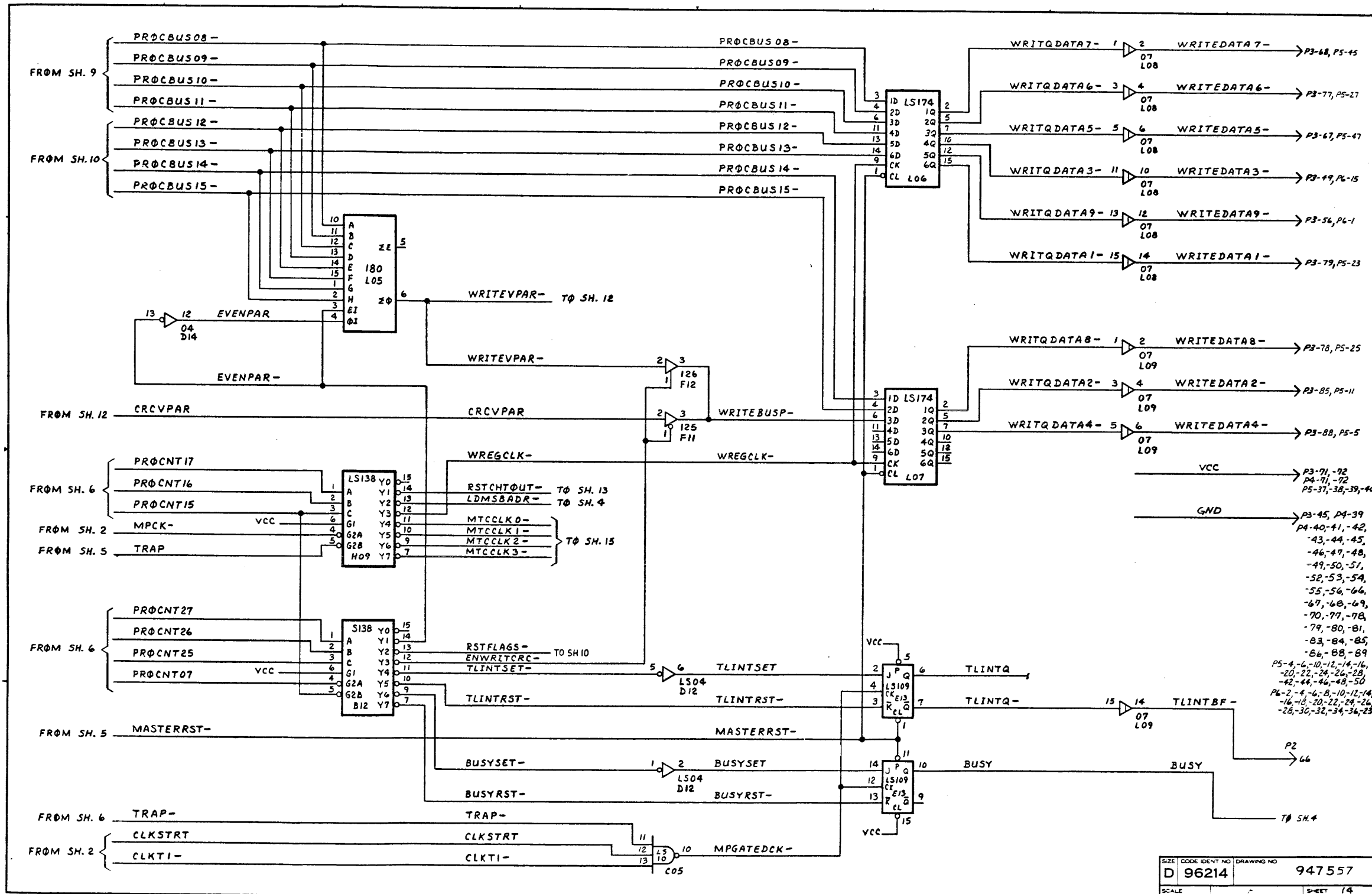
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D	96214	947557
SCALE	4	SHEET 11



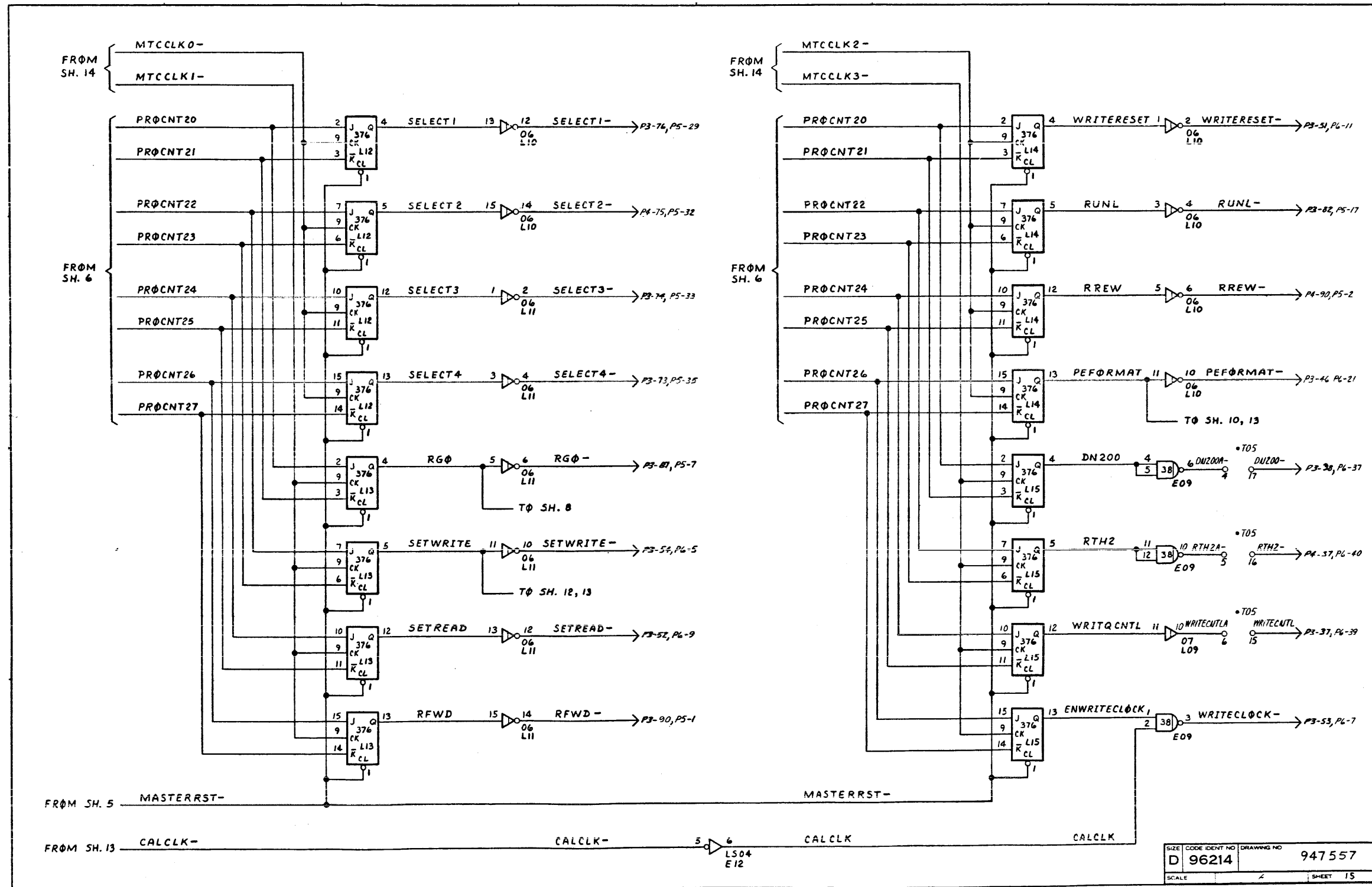
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SCALE	REV. E	SHEET 12

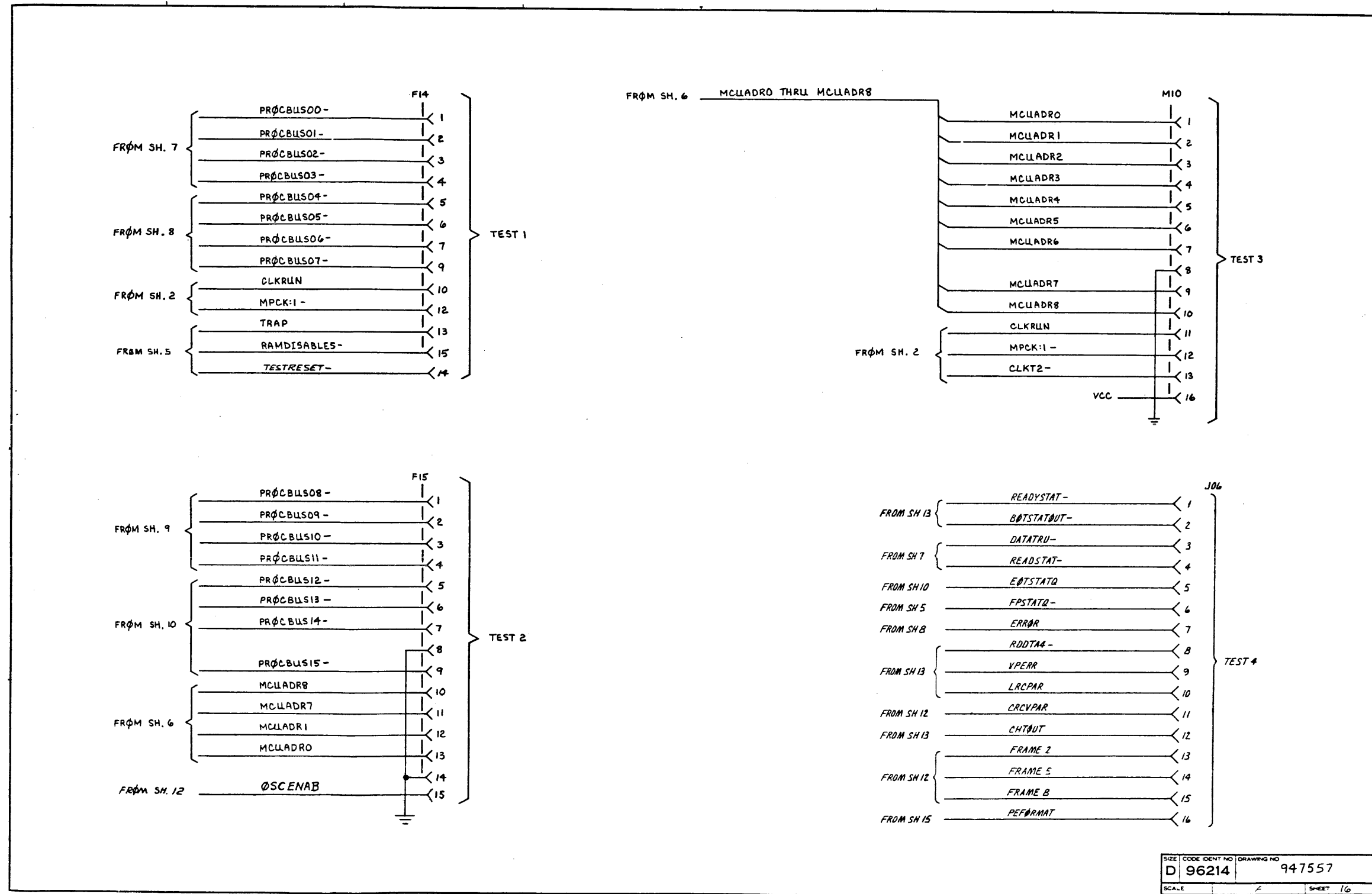


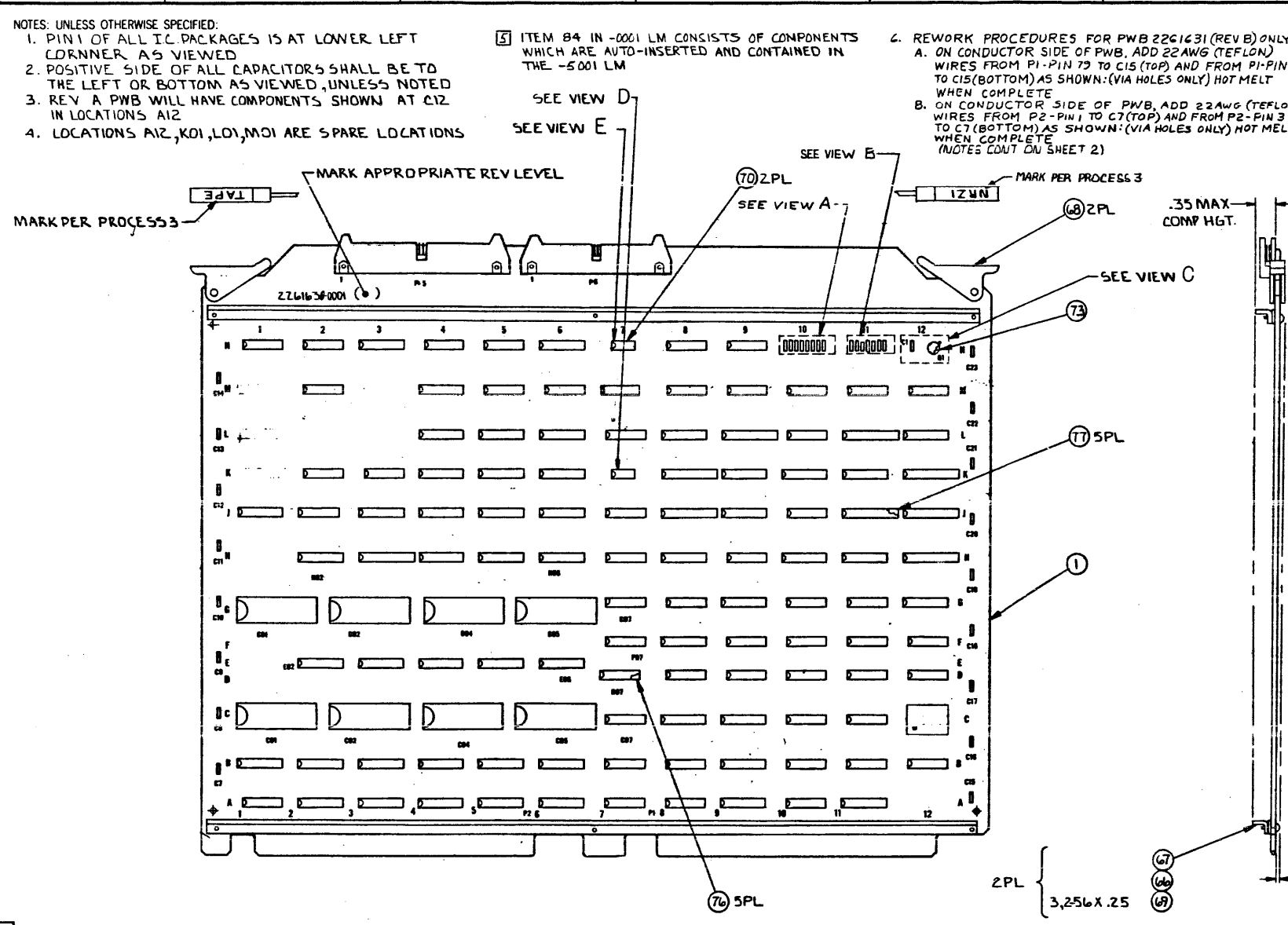
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D	96214	947557
SCALE	APL E	SHEET 13



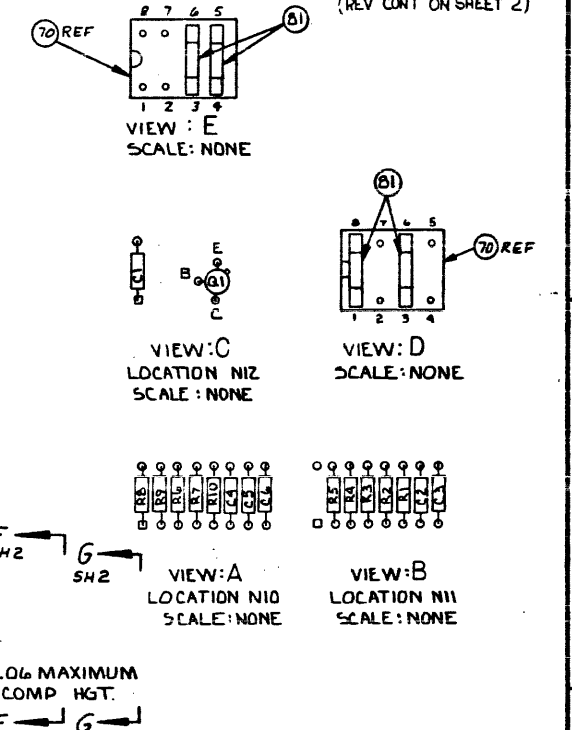








REV	DESCRIPTION	DATE	APPROVED
A	CM44174 (C) (2) (3) (4) ONLY ITEM ITEM 42 WAS --- 0046 DESCRIPTION WAS --- 220FF 5% (2) UPDATED REV LEVEL BLOCK	8-3-78	J.R. 28
B	CM44257 (C) (2) (3) (4) (1) NOTE 3 WAS *REV. & ASSY WILL (2) COMPONENT CIP WAS AN IC (3) UPDATED REV LEVEL BLOCK	12/6/78	R. J. 28
C	CM44172 (C) (2) (3) (4) (1) CREATED -5001 LM AND ADDED ITEM B4 TO -0001 LM (2) UPDATED REV LEVEL BLOCK (3) ADDED NOTE 5	3-15-79	J.R. 28
D	CM44884 (C) (2) (3) (4) (1) UPDATED REV LEVEL BLOCK	3-15-79	J.R. 28
E	CM45197 (C) (2) (3) (4) (1) LM ITEM 42 WAS 966486-1 (2) UPDATED REV LEVEL BLOCK	5-1-79	E. 28
F	CM43791 (C) (2) (3) (4) (1) (1) ONSHI ADDED NOTE 6 (2) UPDATE REV LEVEL (3) ADDED N 21 ALL REV INFORMATION	5-2-79	E. 28
G	CM44173 (C) (2) (3) (4) (1) LM ITEM 38146 WAS 972265-1 (2) 972900-1 (3) RESP (2) UPDATED REV LEVEL BLOCK	5-1-79	E. 28
H	CM44259 (C) (2) (3) (4) (1) LM ITEMS 49 THRU 53 WAS 949005-001, -002, -003, -004 & -005 RESP (3) UPDATED REV LEVEL BLOCK	5-1-79	E. 28



REVISION LEVEL	TEST PROC	LOGIC	PWB	ASSY
	94755B	2261632	2261631	2261630
	* B B B B B B B B B B C	* A A A B B B B B B B D	A B B B B B C C C C D	* A B C D E F G H J K L

IDENT	F.SPEC	NO	ADDITIONAL	NOTES
PROCESS			CLASSIFICATION	

PROCESSES — FOR CORRELATION TO GOVT/IND SPECIFICATIONS, SEE TI DRAWING 729467

PROCESSES:

1. SOLDER PER F-127, METHOD I, AND/OR F-124, METHOD 2
2. MARK PER F-100, METHOD II, CLASS 1, HEIGHT .12, COLOR BLACK
3. MARK PER F-100, METHOD VII, CLASS 12, COLOR BLACK.

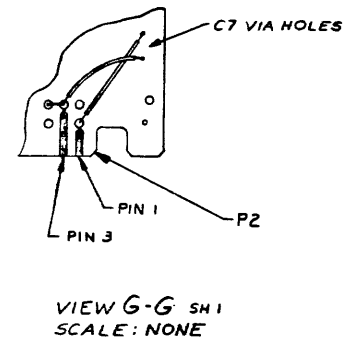
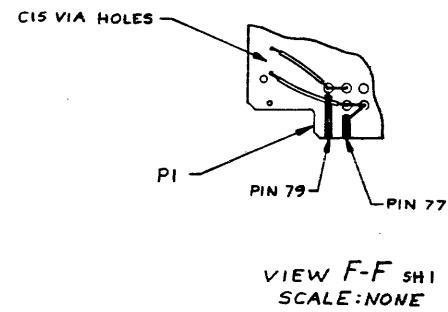
REV STATUS	REV	L	L
OF SHEETS	SH	1	2

2261630-5001	AUTO-INSERTED PARTS LIST FOR 2261630-1
2261630-0001	979 MAG TAPE, NRZ1, I/F (PWB)
PART NUMBER	DESCRIPTION

QTY	ITEM NO	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION	NOTES
UNLESS OTHERWISE SPECIFIED: • DIMENSIONS ARE IN INCHES • TOLERANCES: ANGLES ±1° 3 PLACE DECIMALS = .010 2 PLACE DECIMALS = .02 • INTERPRET DRAWING PER MIL-D-3000 • REMOVE ALL BURRS AND SHARP EDGES • CONCENTRICITY MACHINED DIAMETERS .010 P/M • DIMENSIONAL LIMITS APPLY BEFORE PROCESSES • PARENTHEUSAL INFO FOR REF ONLY					
949008		7506			
NEXT ASSY USED ON					
APPLICATION					
HOLE TOLERANCE .03 THRU .004 138 ± .005 .125 ± .001 250 ± .001 500 ± .001 .501 THRU .008 751 ± 1.001 .750 ± .001 1.000 ± .001 2.000 ± .001			DATE: 1-2-78 DRAWN: 2-28-78 CHECKED: 3-21-78 APPROVED: 4-13-78 DATE: 4-13-78		
TEXAS INSTRUMENTS INCORPORATED Dallas, Texas			979 MAG TAPE, NRZ1, I/F (PWB)		
D96214			DRAWING NO: 2261630		
SCALE: 1/1			SHEET 1 OF 2		

NOTES (CONT)  
 7. REWORK PROCEDURE FOR PWB 2261631 (REV C) AND LOWER:  
 A. AT DEVICE LOCATION UF12 (874574) CUT PIN 1 LEAVING  
 ENOUGH LEAD AT PACKAGE FOR REWORK WIRE  
 B. ADD 30 AWG WIRE FROM UF12 PIN 1 (PND) TO UF12 PIN 2

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
	J	CN 497453 (C) DELETED ITEM 53, 63, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000	11-14-79	[Signature]
	K	CN 481365 (B) 2 WIRE MODEL NOTE 7 TO SHEET 2 OF FID (2) UPDATED REV LEVEL BLOCK	10-2-79	[Signature]
	L	CN 437453 (C) DELETED (1) ON - 0001 LH DELETED ITEM 82, ITEM 82 QTY WAS 1, PIN WAS 472 427-0045 (2) ON - 5001 LH ITEM 65 QTY WAS 6, AND ADDED ITEM 85. (3) UPDATED REV LEVEL BLOCK	2-25-80	[Signature]



TEXAS INSTRUMENTS	DATE	SIZE FROM FIG	DRAWING NO	REV
	SCALE	D 96214	2261630	L
			SHEET	2

TEXAS INSTRUMENTS INCORPORATED

DATE 02/21/80 LIST OF MATERIAL PAGE 1 of

PART NUMBER LM 2261630-0001 REV L

QTY	REF	UNIT	QTY	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0002	REF	EA	2261632-9901	LOGIC DIAGRAM, 979 MAG TAPE, NRZ1, I/F (PWB)		
0003	REF	EA	0947550-9801	TEST PROC. UNIT, TMTC		
0004	00001-000	EA	0972137-0010	CONNECTOR, R.C. HEADER 50 CONTACTS	BEI - 65483-020	
0004A				P5		
0015	00001-000	EA	0240000-7411	NETWORK-SN74HL1N		
0015A				UA01		
0042	00008-000	EA	0974859-0001	METWORK, BI-POLAR 2BIT PROCESSOR -3002		
0042A				UC01 UC02 UC04 UC05 UC01		
0042B				UC02 UC04 UC05		
0049	00001-000	EA	0849005-0031	PROM, TMTC MICROPROGRAM NO.10		
0049A				UJ08		
0050	00001-000	EA	0849005-0032	PROM, TMTC MICROPROGRAM NO.11		
0050A				UL09		
0051	00001-000	EA	0849005-0033	PROM, TMTC MICROPROGRAM NO.12		
0051A				UK08		
0052	00001-000	EA	0849005-0034	PROM, TMTC MICROPROGRAM NO.13		
0052A				UL11		
0053	00001-000	EA	0849005-0035	PROM, TMTC MICROPROGRAM NO.14		
0053A				UJ11		
0054	00001-000	EA	0947573-0001	PROM, 32KB, BOOLEAN, MIC NO.1		

APPROVED: J. R. P. 2-25-80

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LM 2261630-0001

TEXAS INSTRUMENTS INCORPORATED

DATE 02/21/80 LIST OF MATERIAL PAGE 2 of

PART NUMBER LM 2261630-0001 REV L

QTY	REF	UNIT	QTY	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0054A				UL12		
0055	00001-000	EA	0947573-0002	PROM, 32KB, BOOLEAN, MIC NO.2		
0055A				UL08		
0057	00003-000	EA	0896102-0001	IC, SN74S482N MICRO-ADDRESS GENERATOR	TI ->N74S482N	
0057A				UH12 UK12 UJ12		
0058	00001-000	EA	0972547-0010	SWITCH, SLIDE-SPST, DIP 10 SWITCHES	SEE - TI DRAWING	
0058A				UM03		
0060	00001-000	EA	0972965-0008	CAP FIX CERAMIC .0047 MF 10% 200 V	QPL - CK068X472K	
0060A				C1		
0061	00001-000	EA	0972927-0044	CAP FIX MICA 300V 510 PF 5 %	QPL -CM05F511J0C	
0061A				C2		
0062	00002-000	EA	0972927-0039	CAP FIX MICA 500V 330 PF 5 %	QPL -CM05E331J0D	
0062A				C5 C6		
0064	00001-000	EA	0972948-0002	TRANSISTOR, 2N2222A NPN GEN PUMP SH TO-18	TI - 2N2222A	
0064A				Q1		
0066	00002-000	EA	0844954-0001	INSULATOR, PWB, 141N		
0067	00002-000	EA	0848239-0001	BRACKET-SI16FENGR, PWB, 141N		
0068	00002-000	EA	0533844-0001	EJECTOR, NYLON, NON-LOCKING, PWB		
0069	00006-000	EA	0972988-0003	SCREW 2-56 X .250 PAN HEAD CRES		
0070	00002-000	EA	2210188-0001	SOCKET, LOW PROFILE, DIP, 3 CONT, 8 PINS	003612-DIL88P-108	

APPROVED: J. R. P. 2-25-80

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LM 2261630-0001

TEXAS INSTRUMENTS INCORPORATED

DATE 02/21/80 LIST OF MATERIAL PAGE 3 of

PART NUMBER LM 2261630-0001 REV L

QTY	REF	UNIT	QTY	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0070A				XUK07 XUM07		
0072	00001-000	EA	0972929-0400	CAP, FIXED CERAMIC, .0015MF 10% 100V		
0072A				C3		
0073	00001-000	EA	0185113-0001	X SPACER MST TO-18 CASE	*	
0075	00001-000	EA	0972137-0009	CONNECTOR R.C. HEADER	BEI - 65483-019	
0075A				P6		
0076	00005-000	EA	2210188-0003	SOCKET, LOW PROFILE, DIP, 16 CONT	003612-DIL816P-108	
0076A				XUD07 XUL11 XUM07 XUL12		
0076B				XUL08		
0077	00005-000	EA	2210188-0005	SOCKET, LOW PROFILE, DIP, 20 PINS	003612-DIL820P-108	
0077A				XUJ11 XUL11 XUK08 XUL09		
0077B				XUJ08		
0078	00001-000	EA	0389999-9702	RESISTOR SELECTED AT UNIT TEST		
0078A				R7		
0080	00001-000	EA	0994059-0008	OSCILLATOR, RF 3.840MHZ .05% XTAL CUNI	001537-K-1114 A	
0080A				UC12		
0081	00004-000	EA	0972713-0001	PLUG, JUMPER, 1.000 0.300 INCH		
0083	00001-000	EA	0972927-0043	CAP FIX MICA 300V 670 PF 5 %	QPL -CM05F471J0C	
0083A				C4		
0084	00001-000	EA	2261630-5001	AUTO-INSERTED PARTS LIST FOR 2261630-1		

APPROVED: J. R. P. 2-25-80

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LM 2261630-0001

TEXAS INSTRUMENTS INCORPORATED

DATE 02/21/80 LIST OF MATERIAL PAGE 1 of

PART NUMBER LM 2261630-5001 REV L

QTY	REF	UNIT	QTY	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0001	00001-000	EA	2261631-0001	PWB, 979 MAG TAPE, NRZ1, I/F		
0005	00002-000	EA	0972900-7400	NETWORK SN74LS00N	TI ->SN74LS00N	
0005A				U011 UH09		
0006	00003-000	EA	0240000-7400	NETWORK-SN74H00N		
0006A				U011 U012 U012		
0007	00001-000	EA	0972900-7402	NETWORK, SN74LS02N		
0007A				UC11		
0008	00001-000	EA	0222222-7404	NETWORK SN7404N		
0008A				UM08		
0009	00003-000	EA	0972900-7404	NETWORK SN74LS04N		
0009A				UF10 UL10 UK02		
0010	00002-000	EA	0240000-7404	NETWORK SN74H04N		
0010A				UA10 UF09		
0011	00002-000	EA	0222222-7406	NETWORK SN7406N		
0011A				UN02 UN05		
0012	00003-000	EA	0222222-7407	NETWORK-SN7407N	TI ->SN7407N	
0012A				UM05 UM09 UN04		
0013	00004-000	EA	0972749-0001	NETWORK, SN74LS08N		
0013A				UC10 U012 UF07 UB07		
0014	00001-000	EA	0972900-7410	NETWORK SN74LS10N		

APPROVED: J. R. P. 2-25-80

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LM 2261630-5001

TEXAS INSTRUMENTS INCORPORATED		DATE 02/21/80		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM 2261630-5001		REV L	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0014A					UG10						
0016	00003.000	EA		0972900-7420	NETWORK SN74LS20N						
0016A					UG07 UF11 UJ07						
0017	00002.000	EA		0972900-7432	NETWORK SN74LS32N	TI	-SN74LS32N				
0017A					UA08 UD10						
0018	00001.000	EA		022222-7437	NETWORK SN7437M						
0018A					UJ10						
0019	00001.000	EA		0240000-7451	NETWORK-SN74H51N						
0019A					UM11						
0020	00002.000	EA		0972900-7474	NETWORK SN74LS74N						
0020A					UA07 UK03						
0021	00002.000	EA		0240000-7474	NETWORK-SN74H74N						
0021A					UB10 UG11						
0022	00001.000	EA		0972751-0001	NETWORK, SN74LS86N						
0022A					UB08						
0023	00003.000	EA		0972900-7109	NETWORK SN74LS109N	TI	-SN74LS109N				
0023A					UC08 UK10 UJ03						
0024	00001.000	EA		022222-7125	NETWORK SN74125N						
0024A					UN08						
0025	00002.000	EA		022222-7126	NETWORK SN74126N	TI	-SN74126N				
DRAFTSMAN DATE C/D DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE											
AUTO-INSERTED PARTS LIST FOR 2261630-1											
APPRO. MFG. DATE APPD. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV											
LM 2261630-5001 L											

TEXAS INSTRUMENTS INCORPORATED		DATE 02/21/80		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM 2261630-5001		REV L	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0025A					UC07 UN09						
0026	00002.000	EA		022222-7132	NETWORK SN74132N						
0026A					UD09 UM10						
0027	00002.000	EA		0972900-7138	NETWORK SN74LS138N	TI	-SN74LS138N				
0027A					UF08 UK06						
0028	00001.000	EA		0219402-7138	NETWORK SN74S138N						
0028A					UK09						
0029	00002.000	EA		0974674-0001	NETWORK SN75138N						
0029A					UA09 UA11						
0030	00001.000	EA		022222-7148	NETWORK SN74148N						
0030A					UH11						
0031	00001.000	EA		0219402-7153	NETWORK SN74S153N	TI	-SN74S153N				
0031A					UJ09						
0032	00004.000	EA		0972686-0001	NETWORK-QUAD MULTIPLEXER, SN74LS157N						
0032A					UB05 UA05 UN04 UN05						
0033	00002.000	EA		0219402-7157	NETWORK SN74S157N						
0033A					UM02 UJ01						
0034	00003.000	EA		022222-7173	NETWORK SN74173N						
0034A					UB04 UE04 UE05						
0035	00004.000	EA		0972900-7174	NETWORK SN74LS174N						
DRAFTSMAN DATE C/D DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE											
AUTO-INSERTED PARTS LIST FOR 2261630-1											
APPRO. MFG. DATE APPD. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV											
LM 2261630-5001 L											

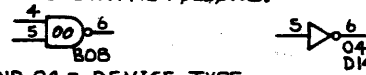
TEXAS INSTRUMENTS INCORPORATED		DATE 02/21/80		LIST OF MATERIAL		PAGE 4 of		PART NUMBER LM 2261630-5001		REV L	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0035A					UK04 UL04 UM10						
0036	00002.000	EA		022222-7180	NETWORK SN74180N						
0036A					UN01 UL07						
0037	00003.000	EA		0219402-7182	NETWORK SN74S182N	TI	-SN74S182N				
0037A					UE02 UE06 UJ02						
0038	00003.000	EA		0996136-0001	IC, SN74LS257N, DATA SELECTORS/MULTIPLEXER	TI	-SN74LS257N				
0038A					UB06 UC09 UM04						
0039	00006.000	EA		0072787-0003	NETWORK SN74LS367N						
0039A					UA02 UA04 UA06 UB03 UB09						
0039B					UG12						
0040	00005.000	EA		0972856-0001	NETWORK, SN74376N						
0040A					UJ05 UJ06 UL06 UL05 UK05						
0041	00003.000	EA		0974849-0001	NETWORK, DM8136						
0041A					UA03 UB01 UB02						
0043	00001.000	EA		022222-7438	NETWORK SN7438N						
0043A					UM06						
0044	00001.000	EA		0219402-7474	NETWORK SN74S74N						
0044A					UF12						
0045	00001.000	EA		0219402-7260	NETWORK SN74S260N						
0045A					UG08						
DRAFTSMAN DATE C/D DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE											
AUTO-INSERTED PARTS LIST FOR 2261630-1											
APPRO. MFG. DATE APPD. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV											
LM 2261630-5001 L											

TEXAS INSTRUMENTS INCORPORATED		DATE 02/21/80		LIST OF MATERIAL		PAGE 5 of		PART NUMBER LM 2261630-5001		REV L		
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0046	0001.000	EA		0972667-0001	NETWORK, SN74LS279N							
0046A					UG09							
0047	0001.000	EA		0972556-0001	NETWORK SN74367N	TI- -SN74367N						
0047A					UJ04							
0048	0002.000	EA		0996035-0002	IC, 4 BIT COUNTER SN74393N	-SN74393N						
0048A					UD08 UH07							
0056	0003.000	EA		0800118-0008	RESISTOR 1.0KOHMS DIL PULL UP 16 PINS	BEC -8981R1.0K						
0056A					UE03 UH06 UH08							
0059	0002.000	EA		0972976-0071	RES, FIX, 220 OHM, 5%, 0.25 W, CARBON COMP.							
0059A					R1, R2							
0063	0004.000	EA		0972976-0075	RES, FIX, 230 OHM, 5%, 0.25 W, CARBON COMP.							
0063A					R4 R5 R6 R10							
0065	00017.000	EA		0972763-0021	CAP, FIXED, AXIAL LEAD, .047 UF, +80%, -20%							
0065A					C7 THRU C23							
0071	0001.000	EA		0972976-0098	RES, FIX, 3.0K OHM, 5%, 0.25 W, CARBON COMP.							
0071A					R3							
0074	00002.000	EA		0972525-0001	NETWORK, RESISTOR 28 ELEMENT 16 PIN DIP	BEC -898-5-R 220/3						
0074A					UN03 UN06							
0079	00001.000	EA		0972784-0002	NETWORK SN74LS14N							
0079A					UN02							
DRAFTSMAN				DATE	C.D. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	AUTO-INSERTED PARTS LIST FOR 2261630-1		
APPROV. MFG.				DATE	APPROV. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 2261630-5001		
										REV L		

TEXAS INSTRUMENTS INCORPORATED		DATE 02/21/80		LIST OF MATERIAL		PAGE 6 of		PART NUMBER LM 2261630-5001		REV L		
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0085	0002.000	EA		0972976-0081	RES FIXED 560 OHMS 1/4 W 5%							
0085A					R8 R9							
DRAFTSMAN				DATE	C.D. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	AUTO-INSERTED PARTS LIST FOR 2261630-1		
APPROV. MFG.				DATE	APPROV. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 2261630-5001		
										REV L		

NOTES: UNLESS OTHERWISE SPECIFIED:

1. ALL DEVICE TYPES ARE PREFIXED WITH SN74.
2. GROUND IS APPLIED TO PIN 7 OF ALL 14-PIN IC'S AND PIN 8 OF ALL 16-PIN IC'S.
3. VCC IS APPLIED TO PIN 14 OF ALL 14-PIN IC'S AND PIN 16 OF ALL 16-PIN IC'S.
4. DEVICE TYPE, PIN NUMBERS, AND LOCATION OF IC IS SHOWN AS FOLLOWS:



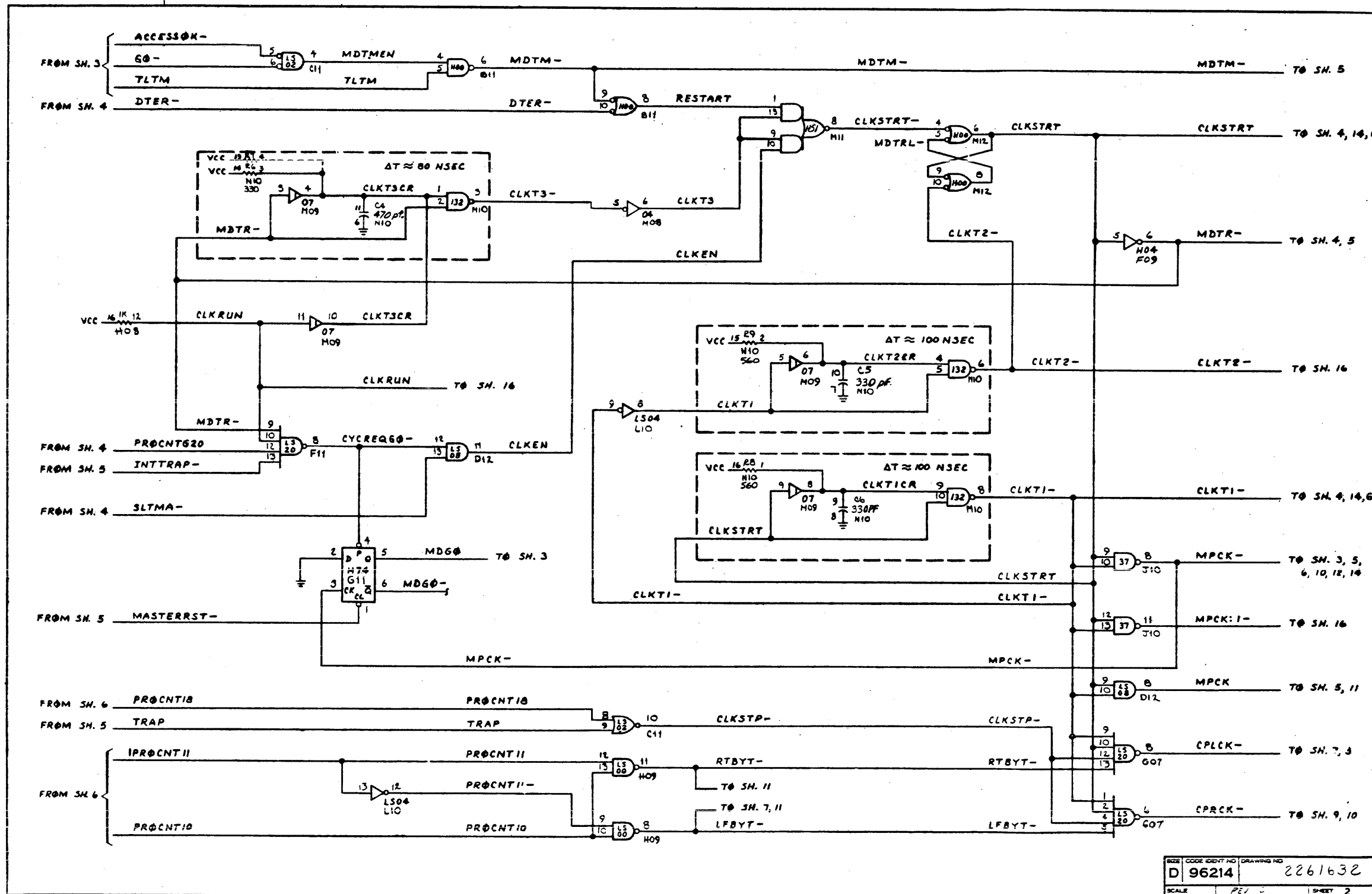
00 AND 04 = DEVICE TYPE  
 4, 5 AND 6 = PIN NUMBERS  
 BOB AND D14 = LOCATION; FIRST LETTER DENOTES ROW, SECOND AND THIRD DIGITS DENOTE COLUMN, IC IS LOCATED AT INTERSECTION OF ROW AND COLUMN.

REVISIONS			
ZONE/LTR	DESCRIPTION	DATE	APPROVED
A	CN447170 (C) R. O. Dale	8-15-78	[Signature]
B	CN448843 (C) R. O. Dale	3-13-79	[Signature]
C	CN461367 (E) RGUDRV	3-19-80	[Signature]
D	CN437954 (E) RGUDRV	3-19-80	[Signature]

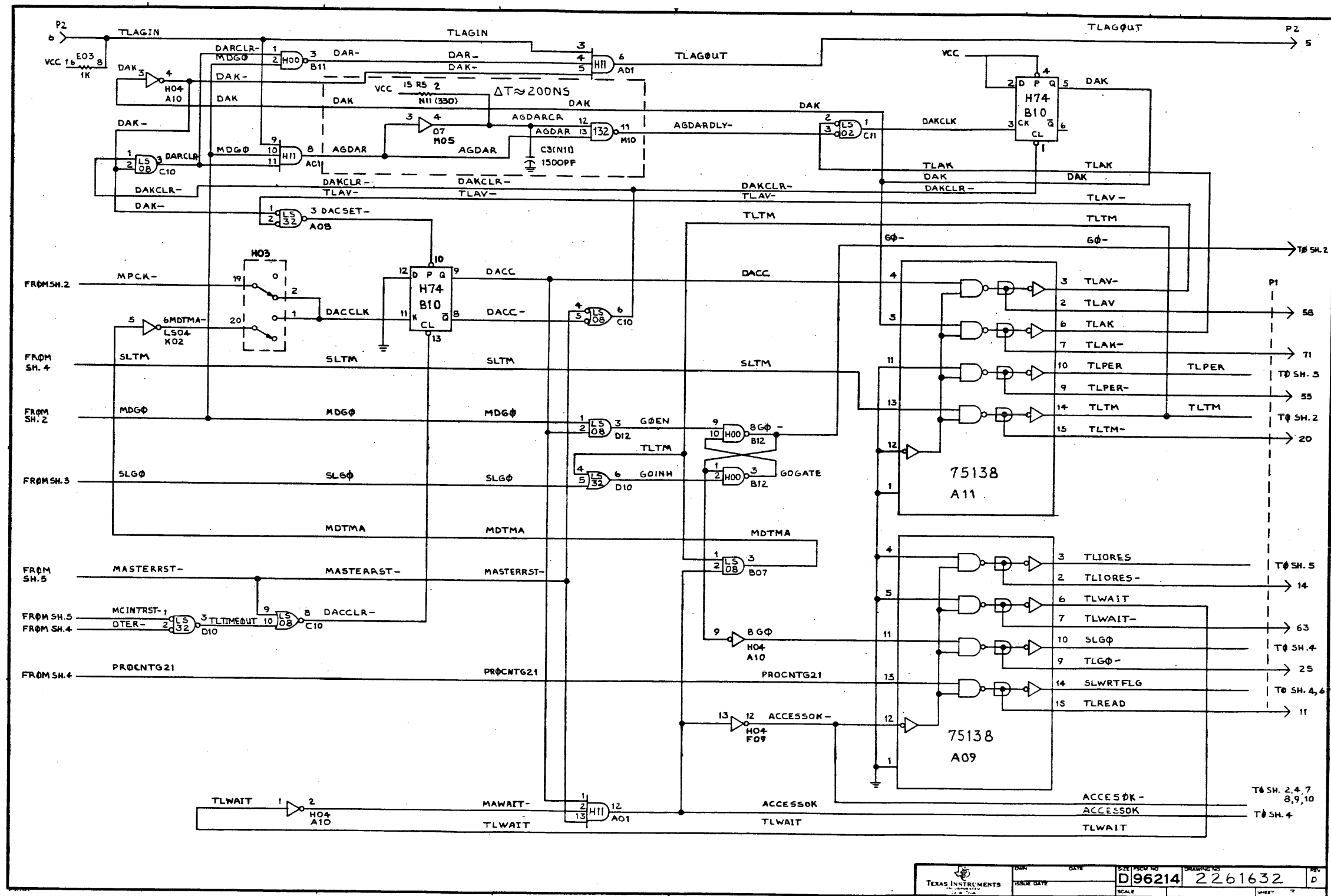
REV STATUS	REV	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
OF SHEETS	SHEET	D	D	C	C	C	C	C	C	C	C	C	C	C	C	C	C

QTY REQD	QTY	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROUREMENT SPECIFICATION
UNLESS OTHERWISE SPECIFIED						
REMOVE ALL BURRS AND SHARP EDGES CONCENTRICITY MACHINED DIAMETERS .010 FIR DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100				UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ANGLES ±1° 3 PLACE DECIMALS ±.010 2 PLACE DECIMALS ±.02		
HOLE TOLERANCE .013 +.004 THRU -.005    .250 ±.005 .125 +.001 THRU -.001    .500 ±.001 .801 +.008 THRU +.010    1.001 ±.010 .750 +.001 THRU -.001    2.000 ±.001				PARTS LIST DWN DATE CKD ENGR APPR CONTR NO DESIGN ACTIVITY RELEASE DATE		
APPLICATION 1627 722				MATERIAL LOGIC LIABRAM, TILINE 979 - MAGTAPE CONTROLLER PWB		
SIZE CODE IDENT NO DRAWING NO D 96214 2251532				SCALE: 1/16"    SHEET 1 OF 1		

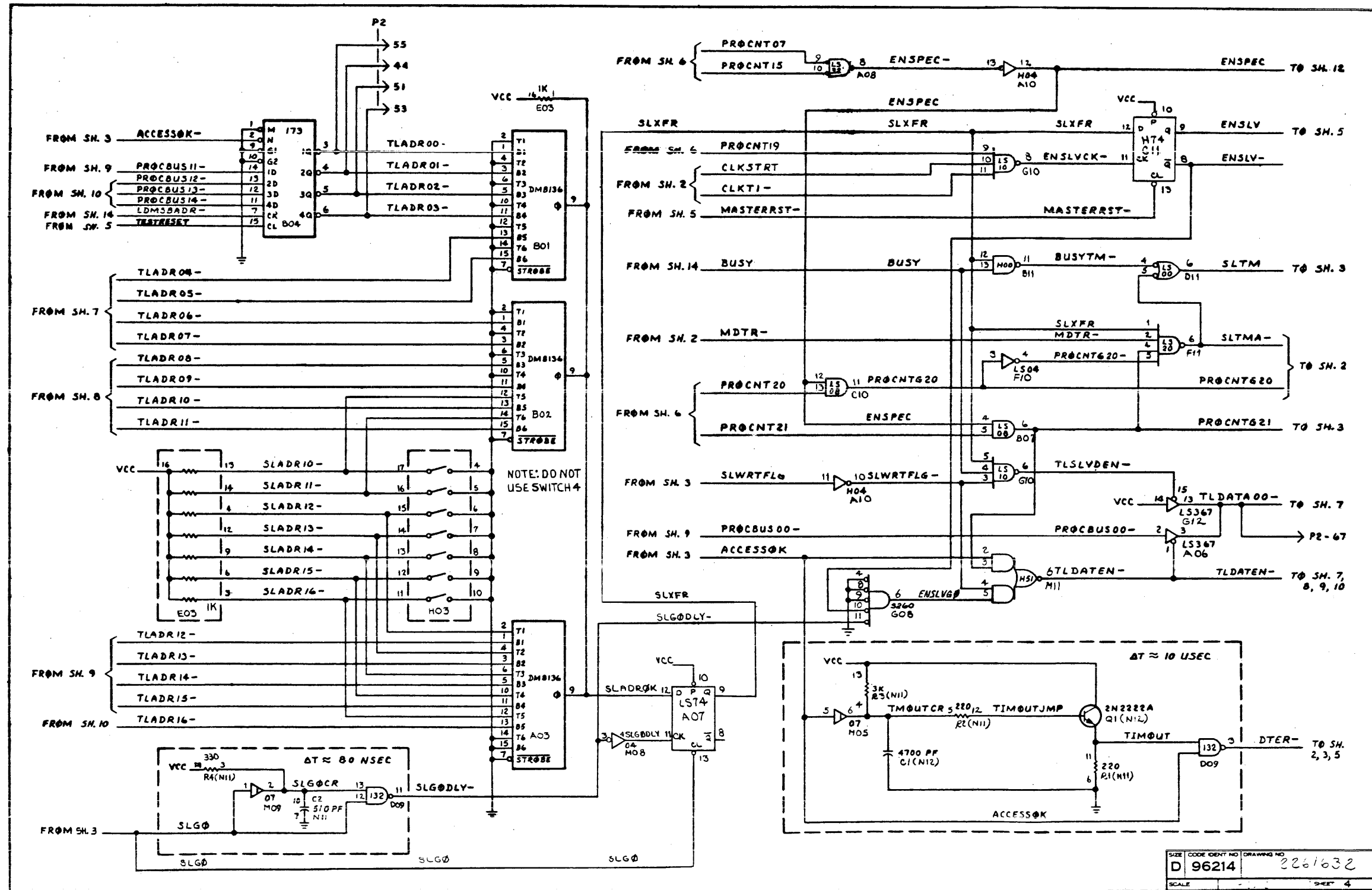


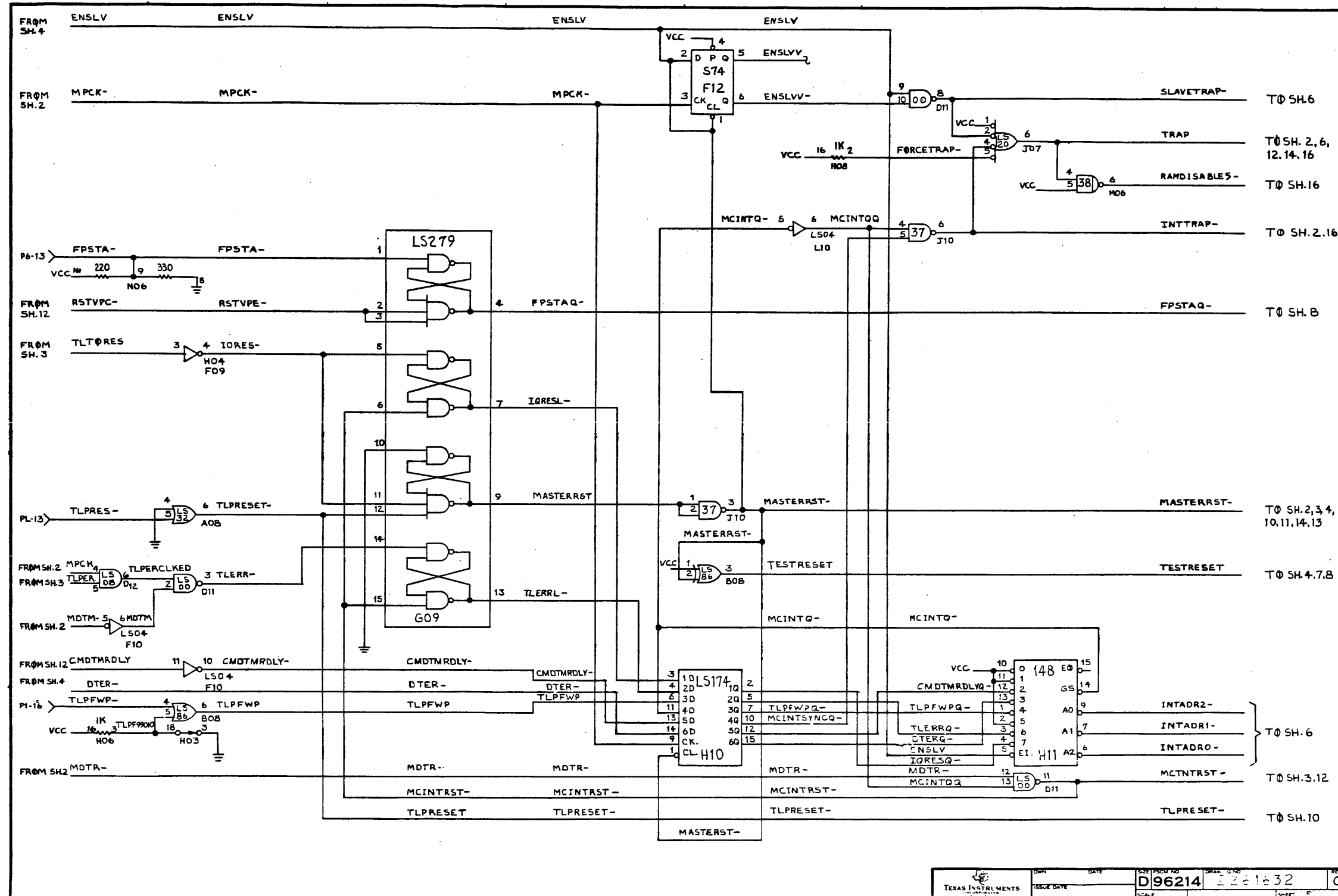


SIZE	CODE IDENT NO	DRAWING NO
D	96214	2261632
SCALE	REV	SHEET
		2

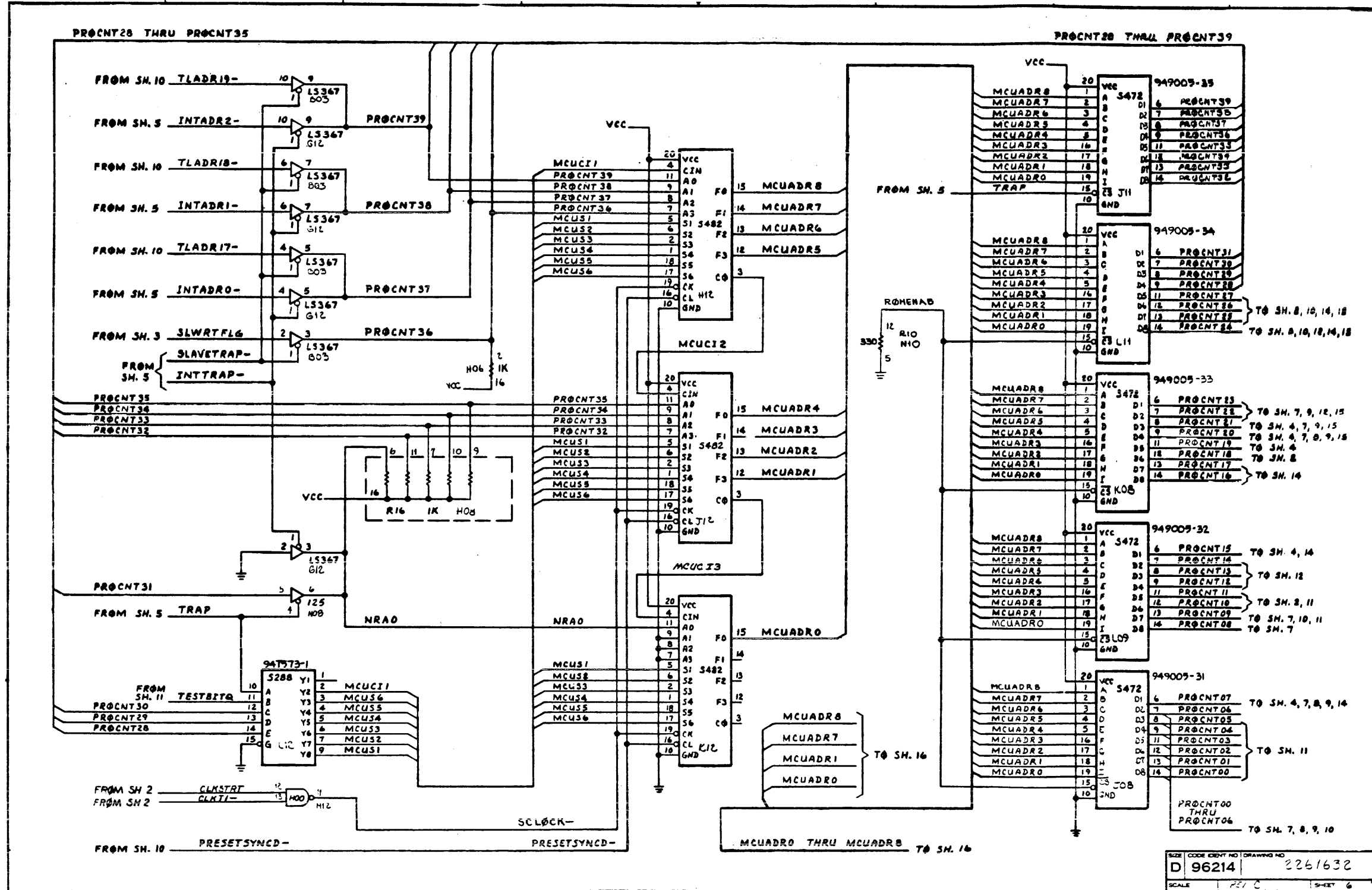


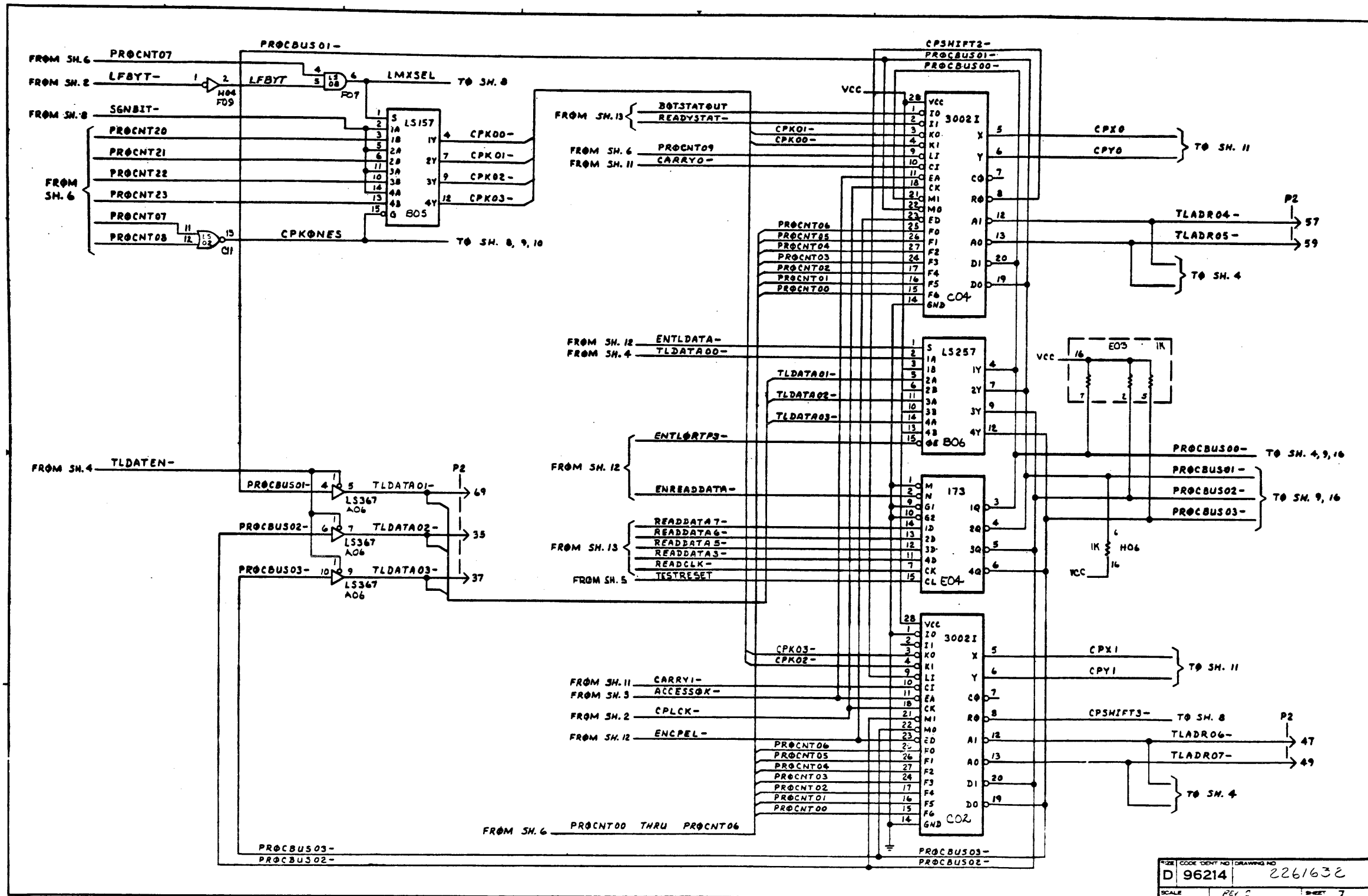
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ISSUE DATE	ISSUE DATE	D96214	2261632
SCALE	SCALE		
SHEET		D	



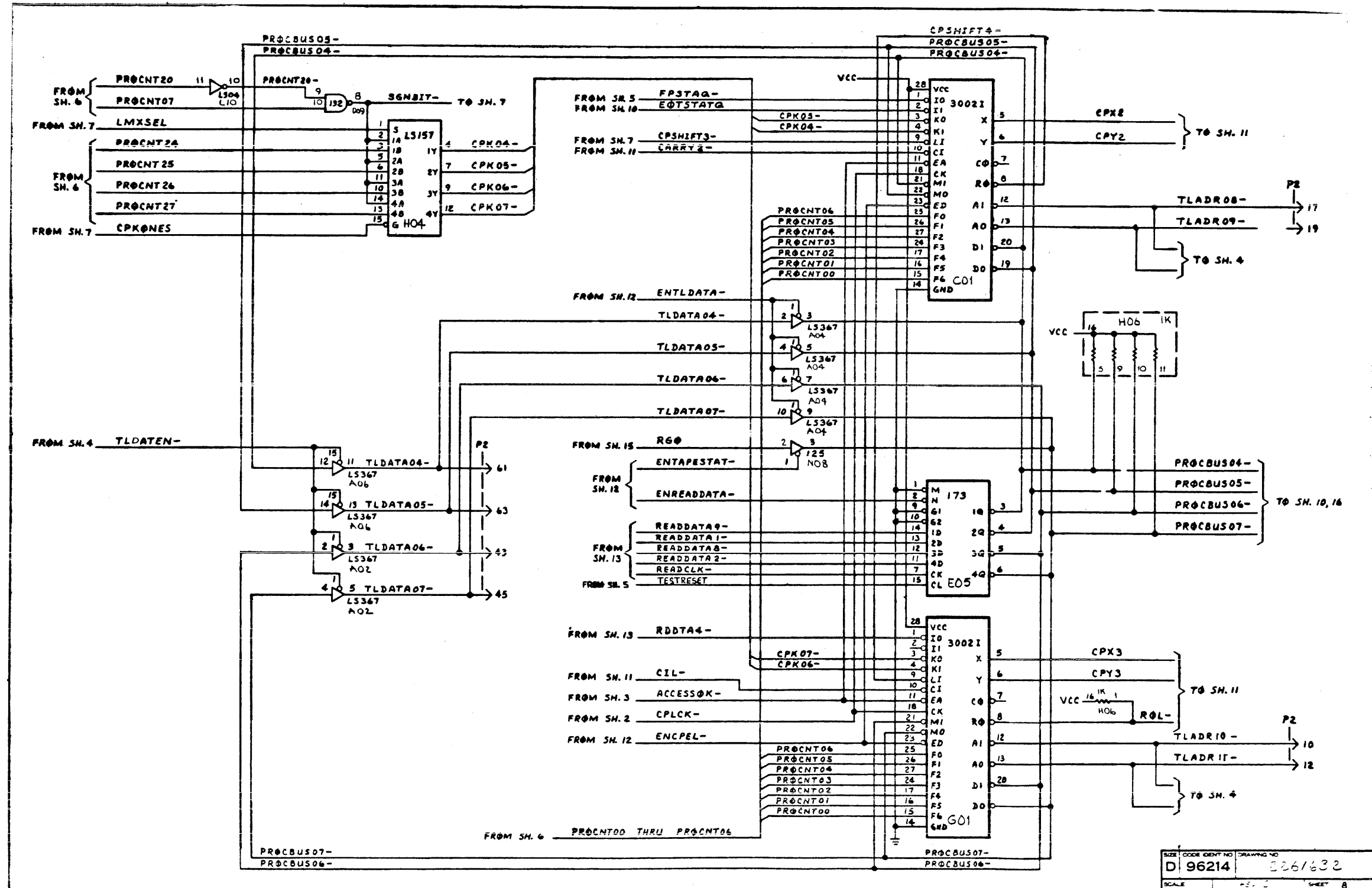


DESIGNED BY	DATE	SIZE (INCHES)	SCALE	REV.
ISSUED BY	DATE	D196214	2 26 16 32	C
TEXAS INSTRUMENTS		SCALE		

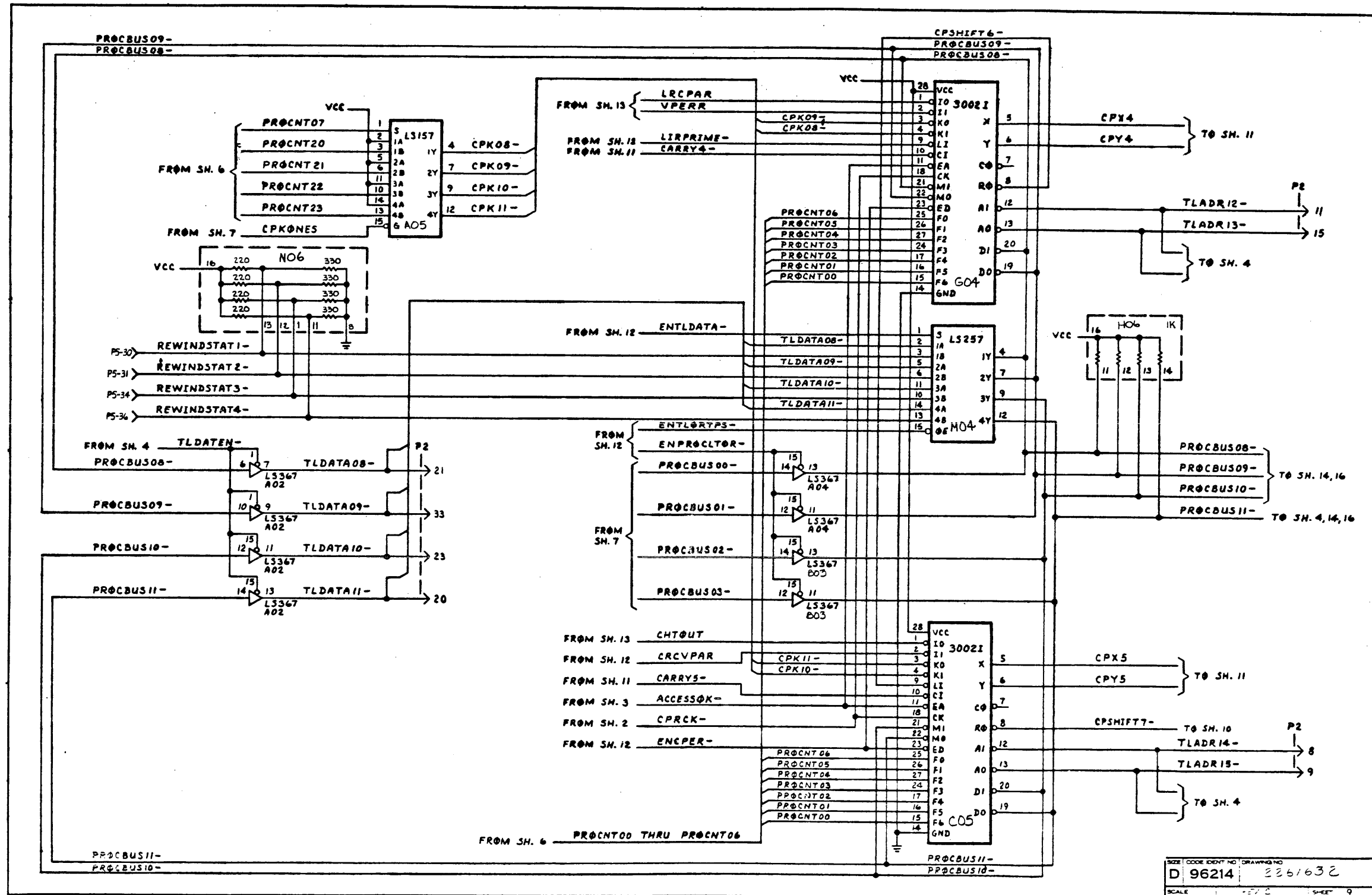




CODE IDENT NO DRAWING NO  
 D 96214 2261632  
 SCALE REV 2 SHEET 7

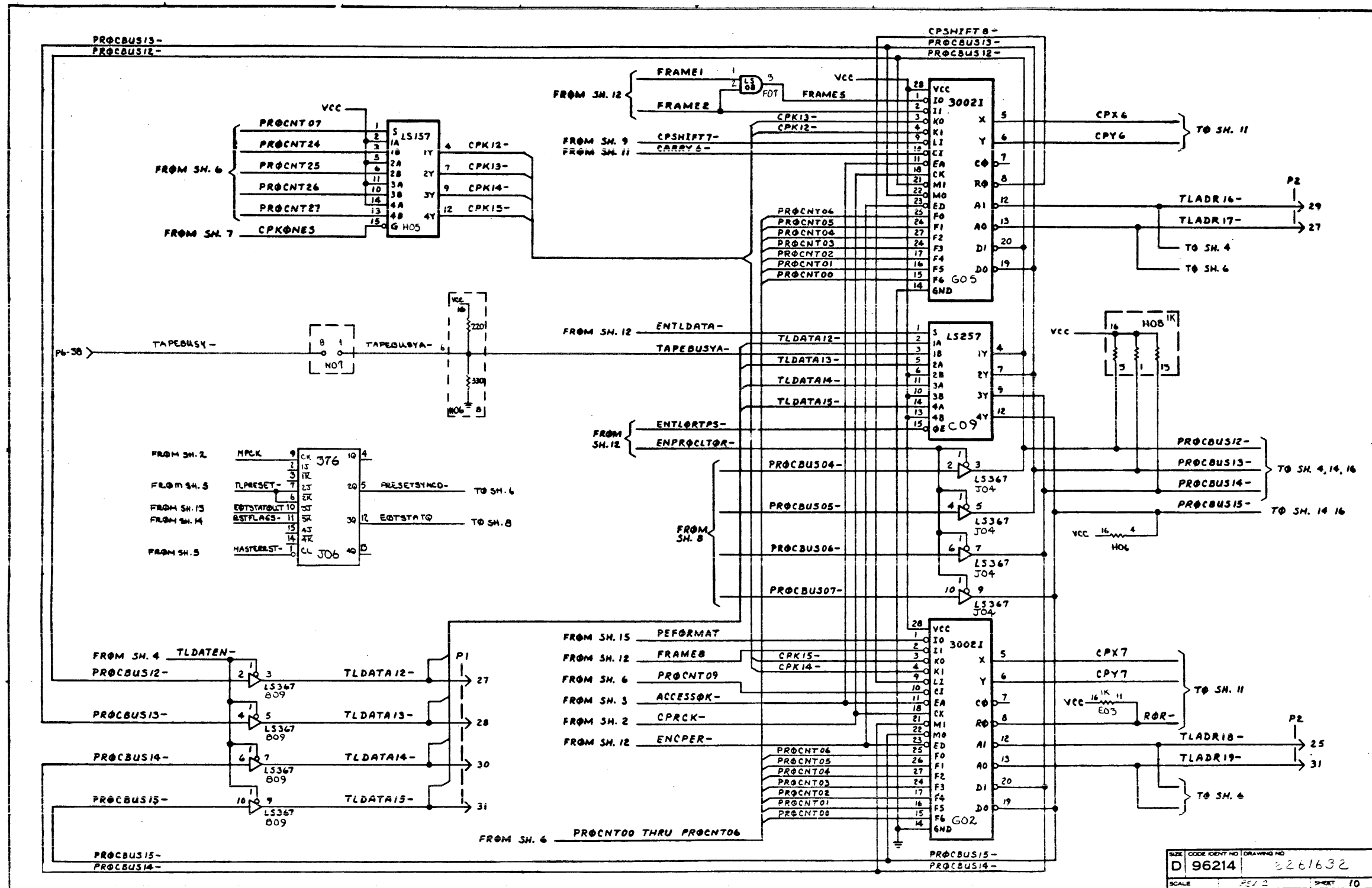


SIZE	CODE	REV. NO.	DRAWING NO.
D	96214		8261632
SCALE		SHEET	8

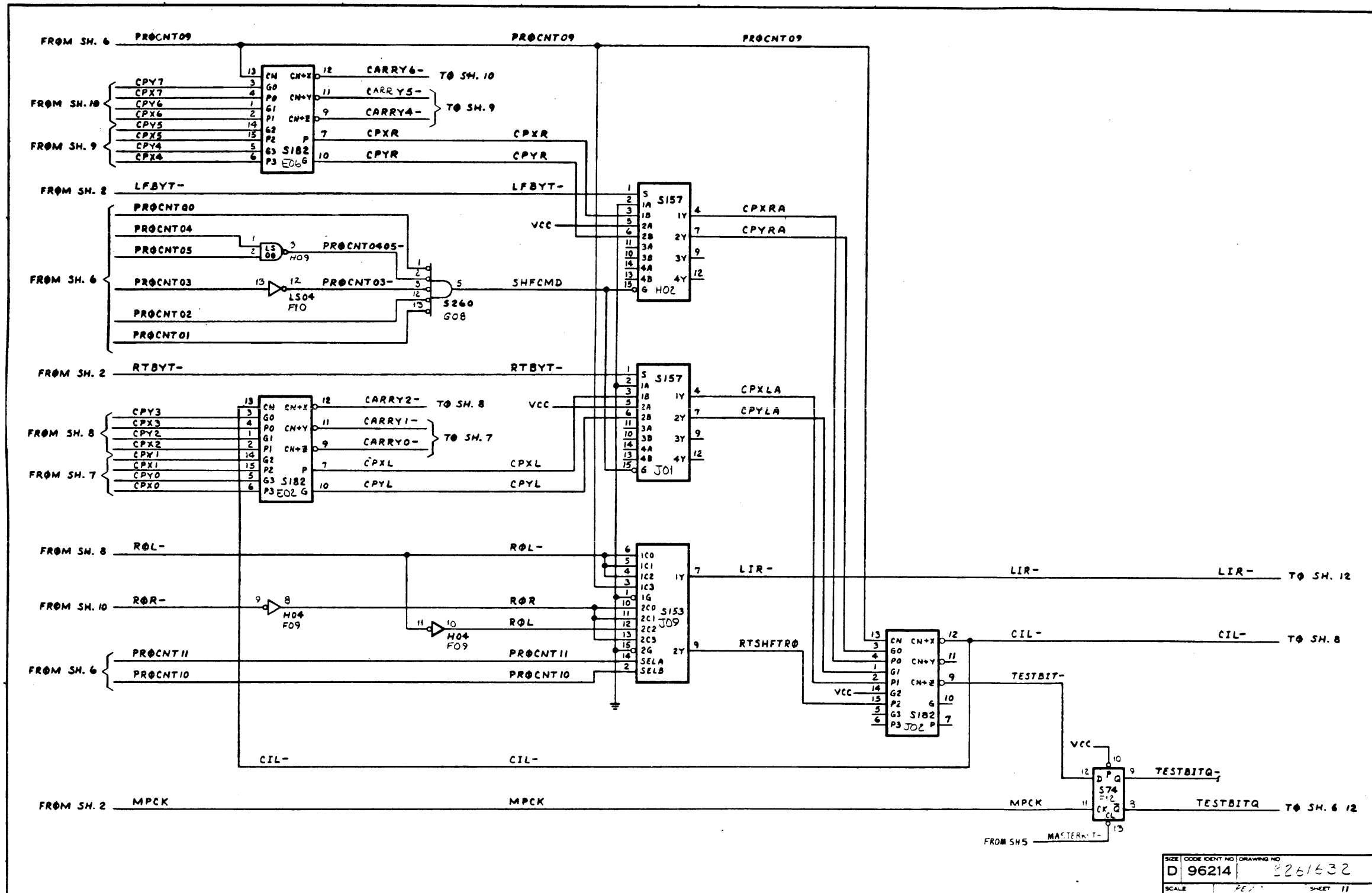


SIZE: D 96214  
 CODE IDENT NO: 2261632  
 DRAWING NO:  
 SCALE: 1/2" = 1"  
 SHEET: 9

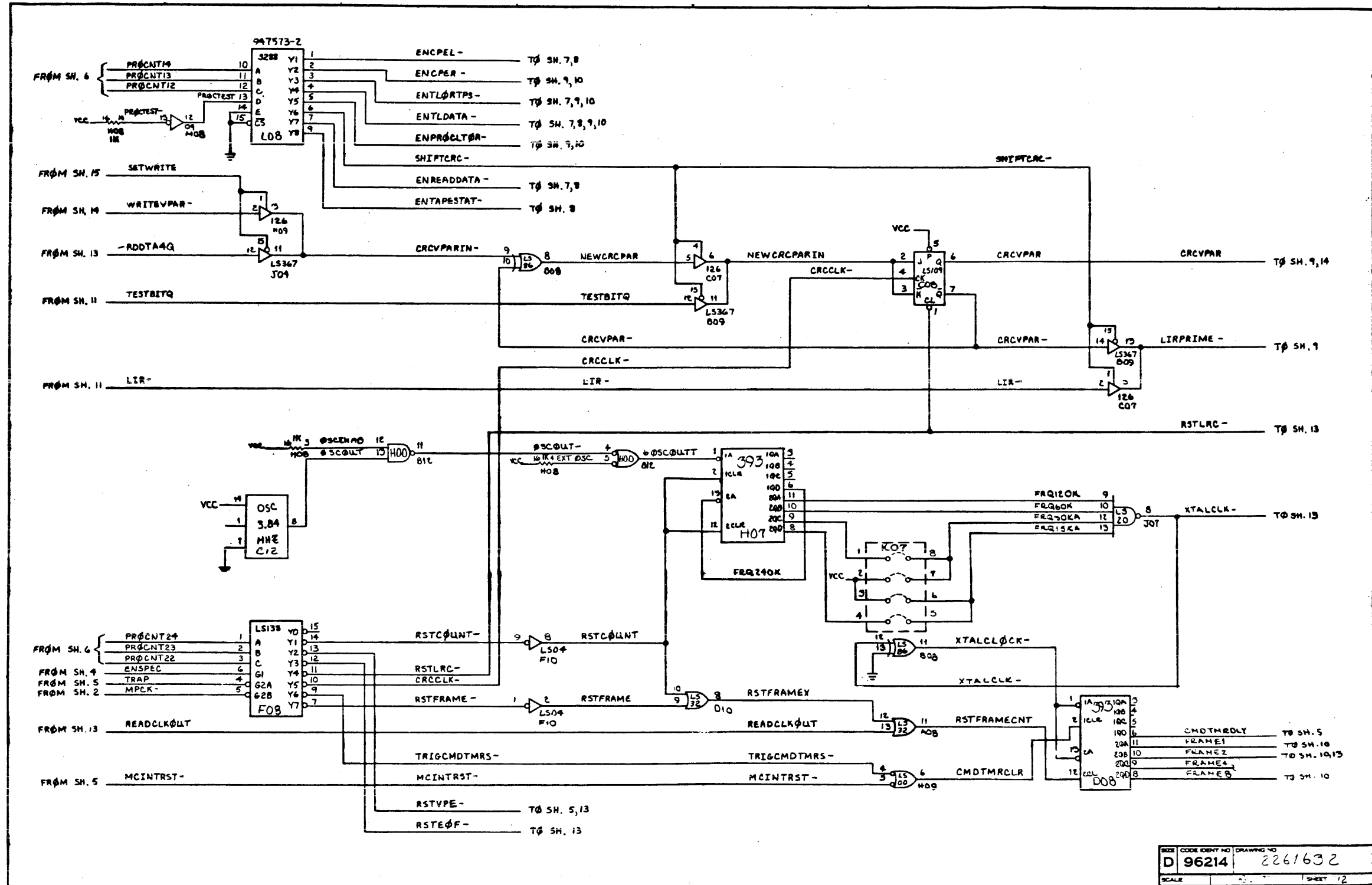




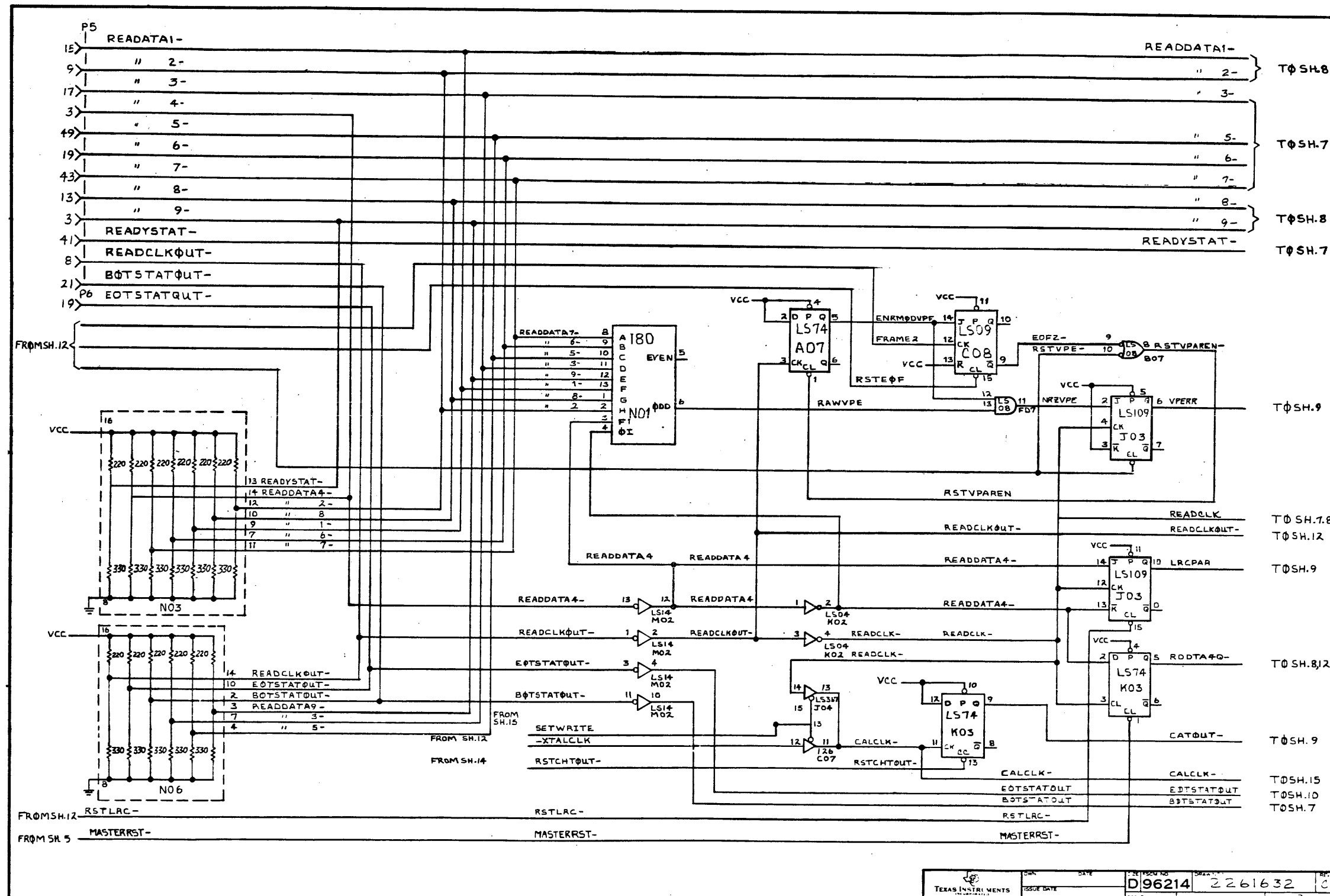
SIZE	CODE	IDENT NO	DRAWING NO
D	96214		3261632
SCALE	FE/2	SHEET	10



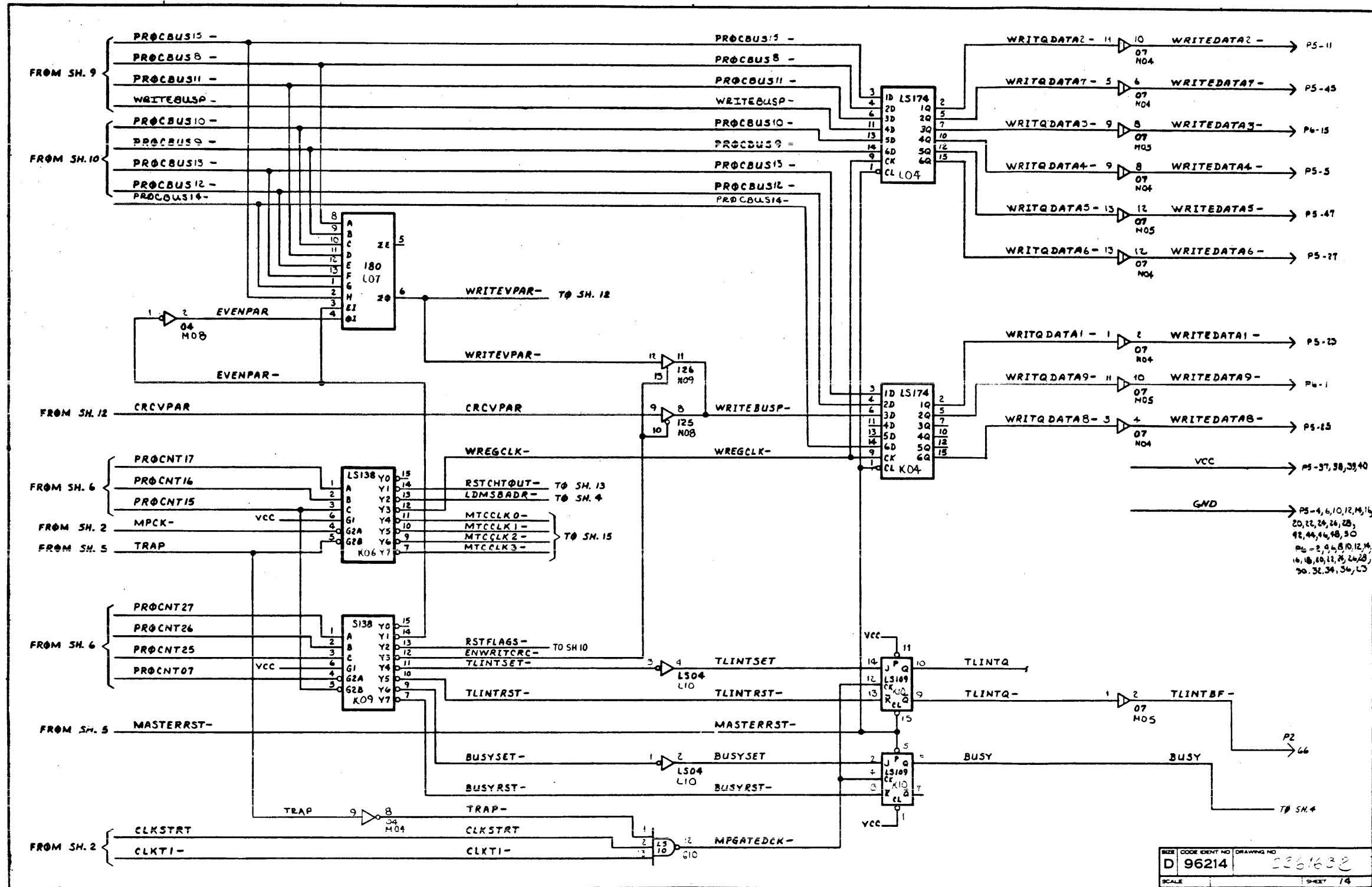
SIZE	CODE IDENT NO	DRAWING NO
D	96214	2261632
SCALE	FE	SHEET 11

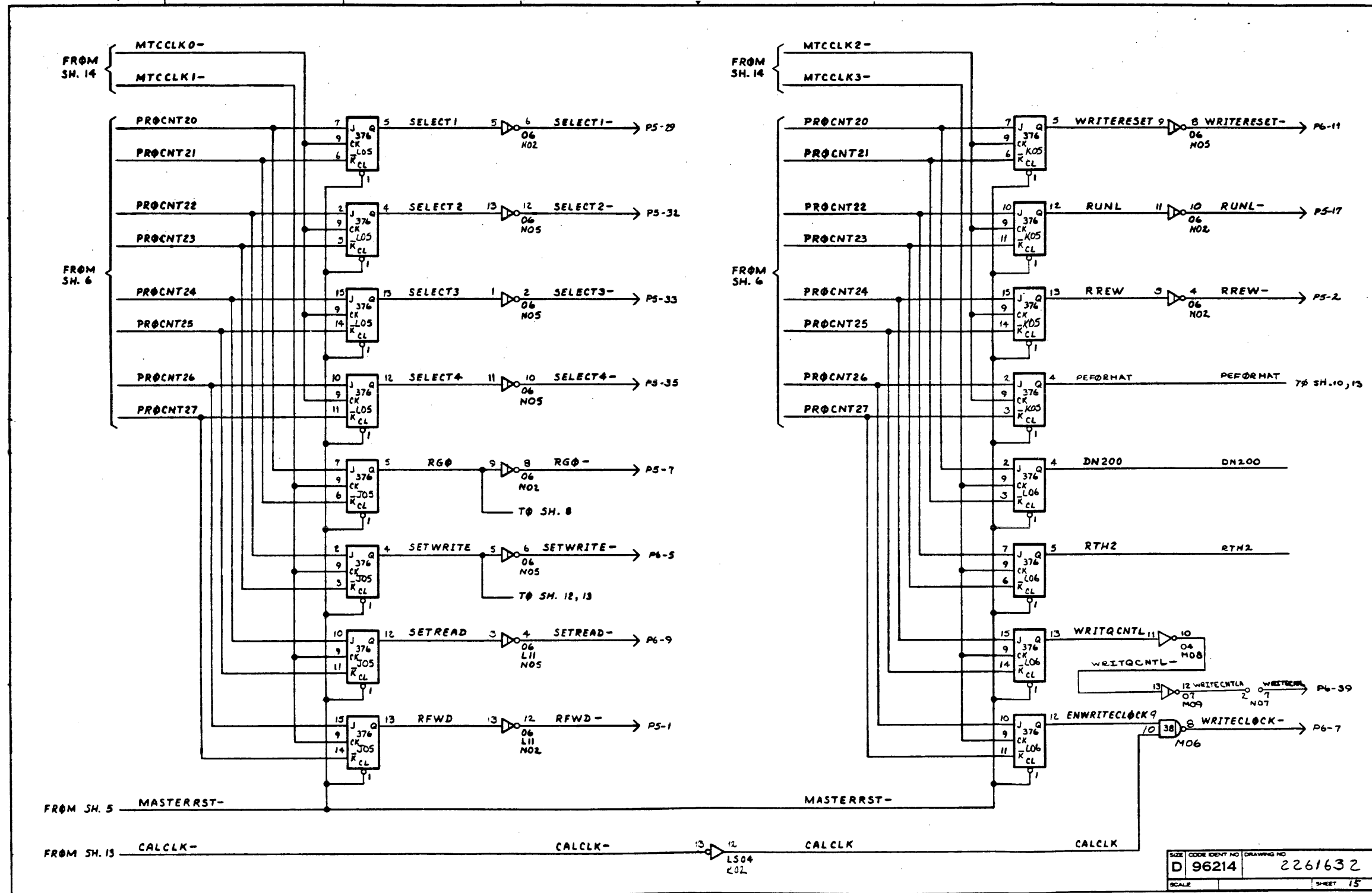


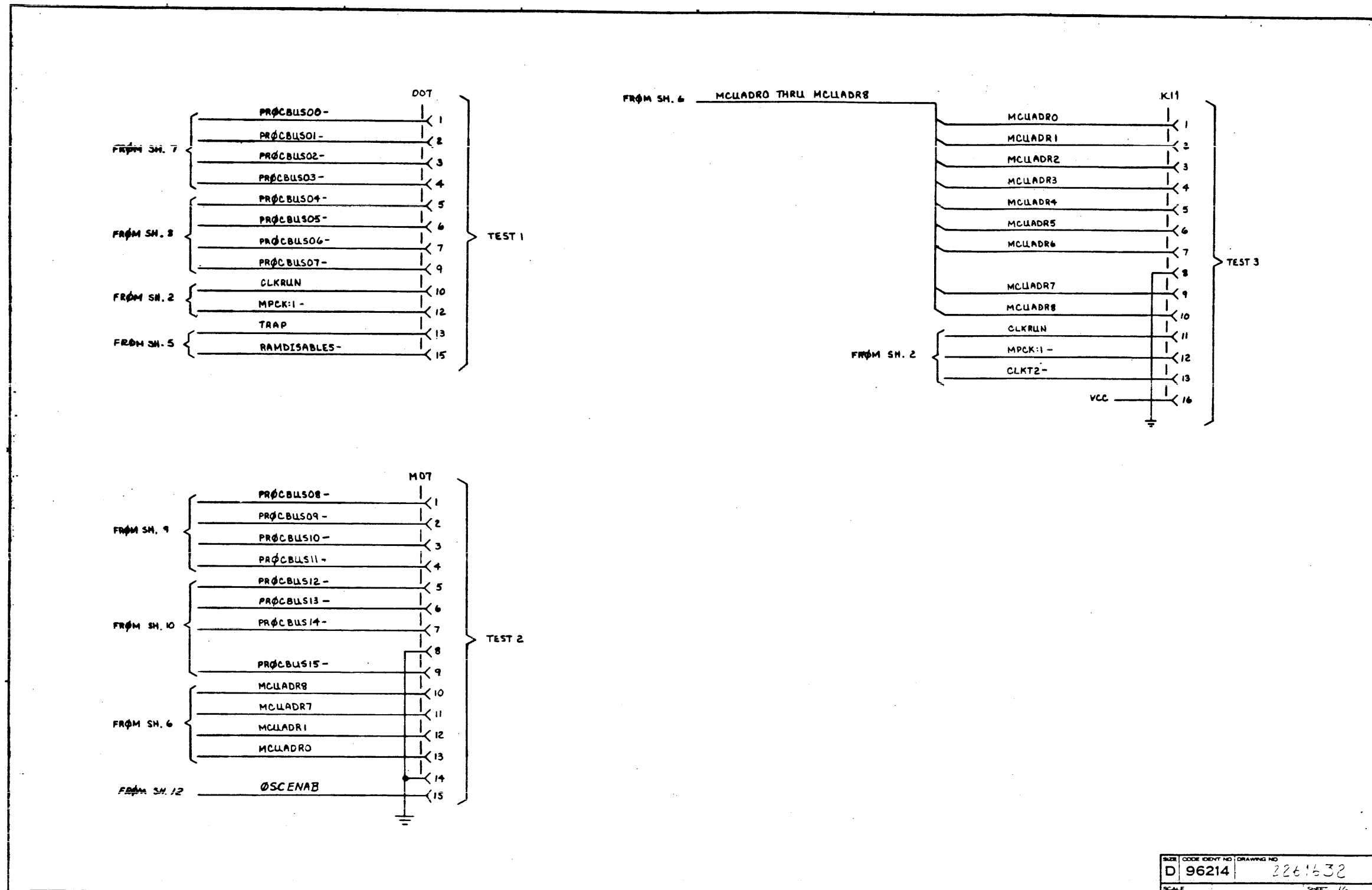
SIZE	CODE IDENT NO	DRAWING NO
D	96214	2261632
SCALE		SHEET 12



TEXAS INSTRUMENTS DALLAS, TEXAS 75243	DATE: _____ ISSUE DATE: _____	DRAWING NO: D196214 SCALE: _____	SHEET NO: 2261632 SHEET 13
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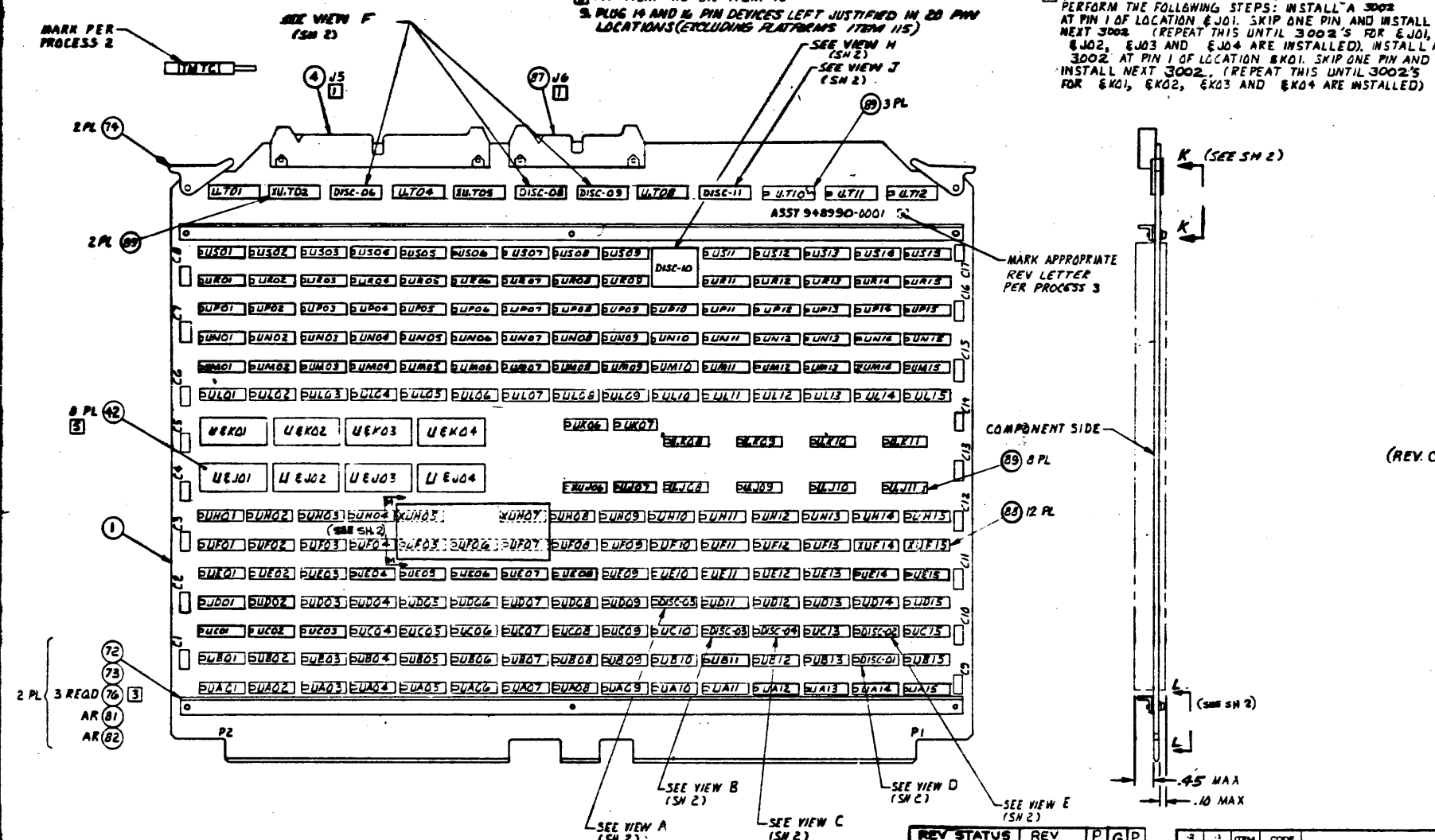


NOTES: (CONT)  
 27 THE FOLLOWING SHOULD BE RE-ADDED AFTER QMT TEST, COVER TOP OF THE SOLDER SIDE OF THE PLS PLATFORM (ITEM 76) WITH NYLON (ITEM 15) USING NYLON TAPE (ITEM 84)  
 NOTES CONT SH3

NOTES: (CONT)  
 28 USING ITEMS 127 & 128 INSTALL VCC & GND CONNECTIONS AS LISTED BELOW:  
 E1 TO P2-77/78 E3 TO P1-1/2  
 E2 TO P2-79/80 E4 TO P1-3/4  
 NOTE: NOTE 10 ONLY APPLIES TO ASSY'S WITH THE MWD MARKED 948982-0001 X-36  
 MAY BE ANY REV LETTER

NOTES: (CONT)  
 29 USING ITEMS 91 AND 92 INSTALL VCC AND GND CONNECTIONS AS SHOWN IN VIEW K  
 30 CONNECT ALL PINS WITH BUS WIRE (ITEM 91). INSTALL ALL 16 PIN PLATFORMS RIGHT JUSTIFIED IN 20 PIN LOCATIONS  
 31 FIT ITEM 110 ON ITEM 70  
 32 PLUG 14 AND 16 PIN DEVICES LEFT JUSTIFIED IN 20 PIN LOCATIONS (EXCLUDING PLATFORMS ITEM 115)

NOTES:  
 1 INSTALL CONNECTOR J5 PIN 1 AT P3-90 AND J6 PIN 1 AT P3-56  
 2 MOUNT ITEM 69 UPRIGHT USING ITEM 83  
 3 SEAL ITEM 76 PER PROCESS 4  
 4 PLUG 14 PIN DEVICES LEFT JUSTIFIED IN 16 PIN LOCATIONS  
 5 FOR PROPER INSTALLATION OF ITEM 42 PERFORM THE FOLLOWING STEPS: INSTALL A 3002 AT PIN 1 OF LOCATION E-J01. SKIP ONE PIN AND INSTALL NEXT 3002. (REPEAT THIS UNTIL 3002'S FOR E-J01, E-J02, E-J03 AND E-J04 ARE INSTALLED). INSTALL A 3002 AT PIN 1 OF LOCATION E-K01. SKIP ONE PIN AND INSTALL NEXT 3002. (REPEAT THIS UNTIL 3002'S FOR E-K01, E-K02, E-K03 AND E-K04 ARE INSTALLED)



REV	DATE	DESCRIPTION	APPROVED
A	8-15-77	CA417925 (C) LHM (1) REVISED PER EXTENSIVE ENGR CHANGES (2) UPDATED REV LEVEL BLOCK	J.R.P.
B	8-15-77	CA417927 (C) LHM (1) UPDATED REV LEVEL BLOCK (2) DUPLICATE ITEM 23 QTY WAS 8, ADDED ITEM 130	J.R.P.
C	5-24-77	CA421130 (C) LHM (1) REVISED PER EXTENSIVE ENGR CHANGES (2) ADDED NOTE 15, NOTE 9 ADDED (EXCLUDING -119) (2) ADDED PIN TABLE 7 LHM-0002 THRU -0005 (3) LHM-0001, ITEM 130 PIN WAS 22222-7414, ADDED ITEM 131 (4) REVISED REV LEVEL BLOCK	J.R.P.
D	5-31-77	CA417967 (C) LHM (1) REVISED PER EXTENSIVE ENGR CHANGES (2) ADDED ASSY 930110 TO REV LEVEL BLOCK AND UPDATED REV LEVEL BLOCK (3) ADDED NOTE 7	J.R.P.
E	6-3-77	CA421130 (C) LHM (1) REVISED REV LEVEL BLOCK	J.R.P.
F	8-31-77	CA420394 (C) LHM (1) LHM ITEM 73 PIN WAS 975461-1 (2) UPDATED REV LEVEL BLOCK	J.R.P.
G	8-31-77	CA420998 (C) LHM (1) LHM ITEM 50 PIN WAS 99105-0002, ITEM 51 PIN WAS 99105-0001 (2) NOTE 2 SMI 1001... 83... USING ITEM 84 (3) DELETED CALLOUT 84 ON VIEW C (4) UPDATED REV LEVEL BLOCK	J.R.P.
H	8-31-77	CA421210 (C) LHM (1) LHM ITEM 71 PIN WAS 97527-0003 (2) UPDATED REV LEVEL BLOCK	J.R.P.
J	11-4-77	CA421043 (C) LHM (1) LHM-0001 LHM DELETED ITEM 75, ITEM 76 WAS QTY 1 PIN 43177-0001 (2) UPDATED REV LEVEL BLOCK	J.R.P.
K	10-12-77	CA421412 (C) LHM (1) NOTE 9 WAS PLUG-119 (2) MAX CMPNT HEIGHT WAS 378 (3) LHM ITEM 76 PIN WAS 97528-0003 (4) UPDATED REV LEVEL BLOCK	J.R.P.

REV	DESCRIPTION
948990-0007	I/F, TMTc, DENM, DUAL DENS. W/O ADAPT., 18.75
-0008	I/F, TMTc, DENM, DUAL DENS. W/O ADAPT., 37.6
-0007	I/F, TMTc, DENM, DUAL DENS., 18.75 IPS.
-0006	I/F, TMTc, DENM, PE, 18.75 IPS.
-0005	I/F, TMTc, DENM, NRZ, 18.75 IPS.
-0004	I/F, TMTc, DENM, DUAL DENS., 37.5 IPS.
-0003	I/F, TMTc, DENM, PE, 37.5 IPS.
-0002	I/F, TMTc, DENM, NRZ, 37.5 IPS.
948990-0001	INTERFACE 979 MAGTAP 800/1600 BPI
PART NO	DESCRIPTION

REV	LEVEL	DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M	N	P
1	1	ASSY MTC PHASE LOCKED LOOP 93010	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1	2	TEST PROC (948983)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1	3	LOGIC DIAGRAM 948781-9501	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1	4	MULTI WIRE BOARD 948982-0001	A	B	C	D	E	F	F	F	F	F	F	F	F	F	
1	5	ASSY 948990	*	*	*	*	*	*	*	*	*	*	*	*	*	*	

PROCESSES:  
 1. SOLDER PER F-127, METHOD I AND /OR F-124, METHOD 2  
 2. MARK PER F-100, METHOD III, CLASS I, HEIGHT .12, COLOR BLACK, TYPE G  
 3. MARK PER FIGO, METHOD II, CLASS I, HEIGHT .12, COLOR WHITE  
 4. SEAL PER F-650, USING ITEMS B1 AND B2

REV STATUS OF SHEETS	REV	P	G	P
		1	2	3

UNLESS OTHERWISE SPECIFIED	UNLESS OTHERWISE SPECIFIED
REMOVE ALL BURRS AND SHARP EDGES	DIMENSIONS ARE IN INCHES
CONCENTRICITY MACHINED DIAMETERS .010 MIN	TOLERANCES ANGLES 11
DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING	3 PLACE DECIMALS ± 0.10
IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY	2 PLACE DECIMALS ± 0.02
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100	
HOLE TOLERANCE	
.013 +.004	.128 +.008
.128 +.004	.251 +.008
.251 +.004	.500 +.001
.500 +.001	1.000 +.001
1.000 +.001	2.000 +.001
2.000 +.001	

REV	QTY	REQD	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION
1	1						

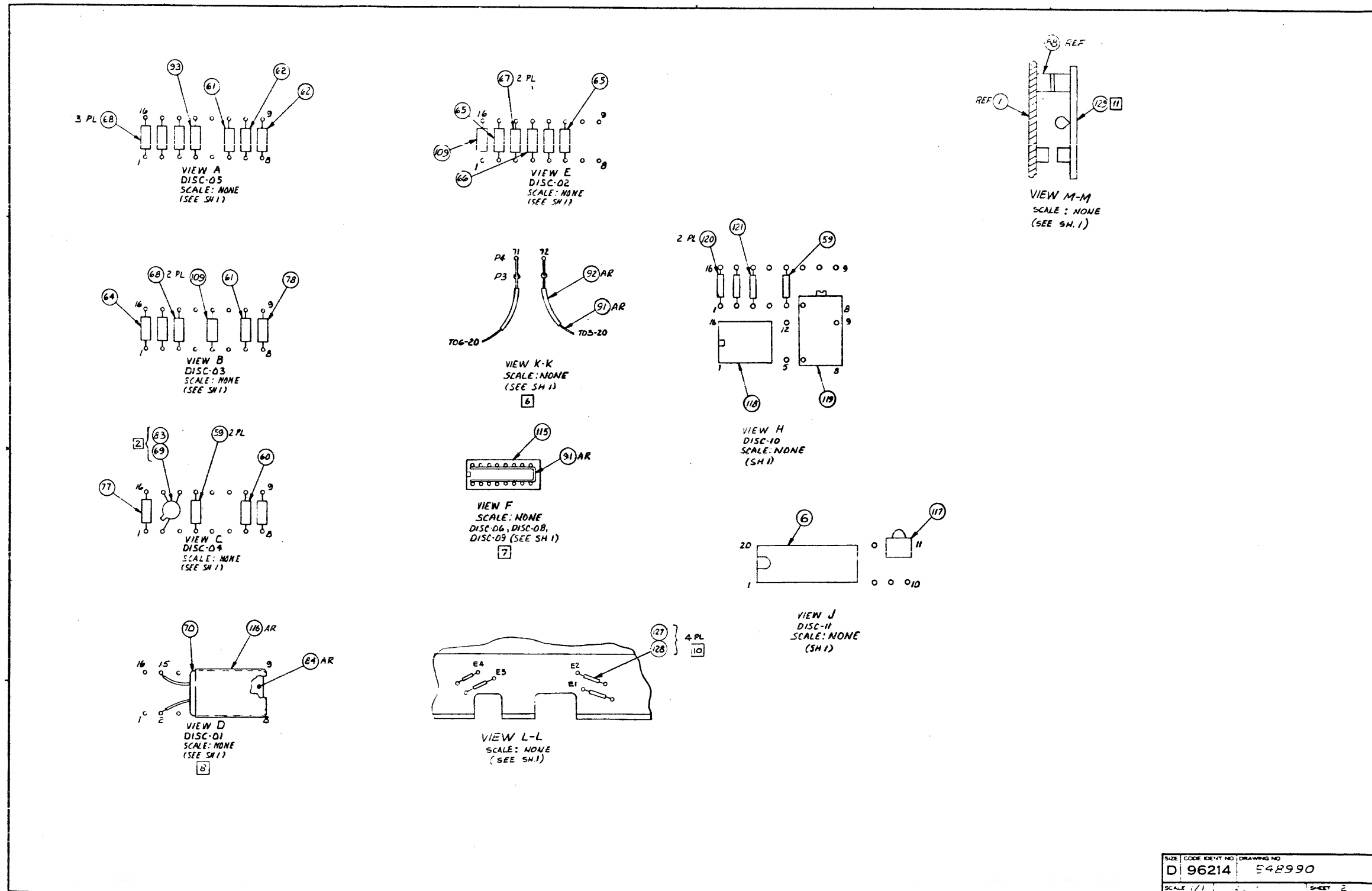
TEXAS INSTRUMENTS  
 CORPORATION  
 Dallas, Texas

INTERFACE, TILINE 979  
 MAG TAPE MULTIWIRED  
 BOARD ASSY

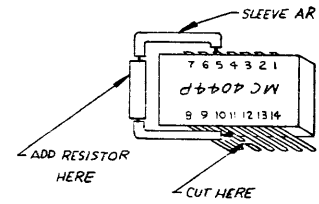
SIZE, CODE IDENT NO, DRAWING NO  
 D 96214 948990

SCALE 1/1 SHEET 1 OF 3





12. REWORK MTC PHASE LOCKED LOOP  
 ASSY 93810 USING PWB 93811  
 PER \* IN THE FOLLOWING MANNER:
- a) CUT PIN 10 OF MC4044 (U2) NEAR CIRCUIT BOARD ON COMPONENT SIDE
  - b) ADD 15K, 1/8W, 5%, RESISTOR (92975-0077) BETWEEN U2 - PINS AND U2 - PIN 10 AS SHOWN. SLEEVE LEADS.
  - c) MARK ASSY 93810 REV LETTER A, PWB REV LETTER A, AND SCHEMATIC REV A.
  - d) MARK ASSY 948990 WITH CORRECT REV LETTER



13. REWORK FOR MULTI WIRE BOARD  
 948982-0001 REV F AND EARLIER:
- a. ON RESISTOR PACKAGE CUT DOZ PIN 1. CONNECT MO3 PINS 4 & 5 TOGETHER USING ITEM 91.
14. REWORK PROCEDURE FOR ASSY 948990, ALL REVISIONS
- a. AT DEVICE UE04 (SN74S74) CUT PIN 15 LEAVING ENOUGH LEAD AT PACKAGE FOR REWORK WIRE
  - b. ADD 30 AWG WIRE FROM UE04 PIN 15 (PKG) TO UE04 PIN 14

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
	L	CN420246 (B) (1) ADDED NOTE 50. PIN WAS 943005-0012. ITEM 51. PIN WAS 943005-0013 (2) UPDATED REV LEVEL BLOCK	11-21-77	J.K.P.
	M	CN430310 (C) L.T.H.H. (1) ADDED NOTE B (2) UPDATED REV LEVEL BLOCK	12-22-77	J.K.P.
	N	CN429432 (C) (2) (1) NOTE 13, A WAS ... CONNECT MO1 PINS 4 & 5 TOGETHER ... (2) UPDATED REV LEVEL BLOCK	2-15-78	J.K.P.
	O	CN461376 (B) (1) ADDED REWORK NOTE 14 (2) ADDED MULTI WIRE BOARD ASSY TO TITLE BLOCK (3) UPDATED REV LEVEL BLOCK	1-23-80	J.K.P.

TEXAS INSTRUMENTS	DATE	ISSUE DATE	REV. NO.	DRAWING NO.	BY
			D 96214	948990	P
			1	3	SHEET 3

TEXAS INSTRUMENTS INCORPORATED DATE 11/17/77 LIST OF MATERIAL PAGE 1 of 4 PART NUMBER LM0548990-0001 REV P 4

PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0001	0001.000	EA		0948582-0001	BOARD, MULTIWIRE, TMTC 800/1600 BPI	
0002	REF	EA		0948981-9901	LOGIC DIAGRAM, 979 MAG TAPE INTERFACE	
0003	REF	EA		0948983-9901	UNIT TEST PROC. 979A TMTC 800/1600 BPI	
0004	0001.000	EA		0972137-0010	CONNECTOR P.C.H.E.A	BEI - 65483-020
0004A					J5	
0005	0002.000	EA		0972900-7400	NETWORK SN74LS00N	TI - SN74LS00N
0005A					UB07 UF07	
0006	0003.000	EA		0240000-7400	NETWORK-SN74H00N	
0006A					UB08, UB10, U.TC9	
0007	0002.000	EA		0972900-7402	NETWORK SN74LSC2N	
0007A					LD08 UJ07	
0008	0002.000	EA		0222222-7404	NETWORK SN7404N	
0008A					LD14 UR07	
0009	0006.000	EA		0972900-7404	NETWORK SN74LS04N	
0009A					UA14 UC04 UD12 UF12 UN10	
0009B					UR11	
0010	0002.000	EA		0240000-7404	NETWORK SN74H04N	
0010A					UB06 UF02	
0011	0002.000	EA		0222222-7406	NETWORK SN7406N	
0011A					UH10 UH11	

DRAFTSMAN DATE 11-17-77 DESIGN ENGINEER DATE TITLE INTERFACE 979 MAG TAPE 800/1600BPI  
 APP'D-MFG DATE PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. 7504 PART NUMBER LM0548990-0001 REV P 4

TEXAS INSTRUMENTS INCORPORATED DATE 11/17/77 LIST OF MATERIAL PAGE 2 of 4 PART NUMBER LM0548990-0001 REV P 4

PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0012	0002.000	EA		0222222-7407	NETWORK-SN7407N	TI - SN7407N
0012A					UC09 UH09	
0013	0003.000	EA		0972749-0001	NETWORK, SN74LSC8N	
0013A					UC07 UC15 UD05 UDG6 UN03	
0013B					U.T01	
0014	0003.000	EA		0972900-7410	NETWORK SN74LS10N	
0014A					UC05 UD01 UP02	
0015	0001.000	EA		0240000-7411	NETWORK-SN74H11N	
0015A					UD11	
0016	0003.000	EA		0972900-7420	NETWORK SN74LS20N	
0016A					LD13 UD15 UF01	
0017	0003.000	EA		0972900-7432	NETWORK SN74LS32N	TI - SN74LS32N
0017A					UC13 UD07 UN11 UN12 UN13	
0017B					UP14 UP15	
0018	0003.000	EA		0222222-7437	NETWORK SN7437N	
0018A					UF08 UH04 UL05	
0019	0001.000	EA		0240000-7451	NETWORK-SN74H51N	
0019A					UB09	
0020	0003.000	EA		0972900-7474	NETWORK SN74LS74N	
0020A					UA11 UP03 U.T08	

DRAFTSMAN DATE 11-17-77 DESIGN ENGINEER DATE TITLE INTERFACE 979 MAG TAPE 800/1600BPI  
 APP'D-MFG DATE PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER LM0548990-0001 REV P 4

TEXAS INSTRUMENTS INCORPORATED DATE 11/17/77 LIST OF MATERIAL PAGE 3 of 4 PART NUMBER LM0548990-0001 REV P 4

PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0021	0002.000	EA		0240000-7474	NETWORK-SN74H74N	
0021A					UC06 UC08	
0022	0003.000	EA		0972751-0001	NETWORK, SN74LS86N	
0022A					UA13 UP08 UP10	
0023	0003.000	EA		0972900-7109	NETWORK SN74LS109N	TI - SN74LS109N
0023A					UA12 UA15 UF10 UR04 U.T04	
0024	0003.000	EA		0222222-7125	NETWORK SN74125N	
0024A					UF11 UM05 US06	
0025	0003.000	EA		0222222-7126	NETWORK SN74126N	TI - SN74126N
0025A					UF13 UL13 UM05 UN04 US07	
0026	0002.000	EA		0222222-7132	NETWORK SN74132N	
0026A					UC10 UD09	
0027	0002.000	EA		0972900-7138	NETWORK SN74LS138N	TI - SN74LS138N
0027A					UE09 UF09	
0028	0001.000	EA		0219402-7138	NETWORK SN74S138N	
0028A					UB12	
0029	0007.000	EA		0974674-0001	NETWORK SN75138N	
0029A					UA05, UA06, UB11, UC08	
0029B					LS09 US12 US13	
0030	0001.000	EA		0222222-7143	NETWORK SN74143N	

DRAFTSMAN DATE 11-17-77 DESIGN ENGINEER DATE TITLE INTERFACE 979 MAG TAPE 800/1600BPI  
 APP'D-MFG DATE PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER LM0548990-0001 REV P 4

TEXAS INSTRUMENTS INCORPORATED DATE 11/17/77 LIST OF MATERIAL PAGE 4 of 4 PART NUMBER LM0548990-0001 REV P 4

PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0030A					UE14	
0031	0001.000	EA		0219402-7153	NETWORK SN74S153N	TI - SN74S153N
0031A					UE05	
0032	0004.000	EA		0972686-0001	NETWORK-QUAD MULTIPLEXER, SN74LS157N	
0032A					UF03 UF04 UF05 UF06	
0033	0002.000	EA		0219402-7157	NETWORK SN74S157N	
0033A					UE02 UE06	
0034	0003.000	EA		0222222-7173	NETWORK SN74173N	
0034A					UA07 UC01 UC02	
0035	0009.000	EA		0972900-7174	NETWORK SN74LS174N	
0035A					UE13 UL15 UM06 UPG5 URC8	
0035B					UR09 UM01 UM02 UM15	
0036	0003.000	EA		0222222-7180	NETWORK SN74180N	
0036A					UC03 UH02 UP04	
0037	0003.000	EA		0219402-7182	NETWORK SN74S182N	TI - SN74S182N
0037A					UE01 UE03 UE07	
0038	0003.000	EA		0996136-0001	IC, SN74LS257N, DATA SELECTORS/MULTIPLEXER	TI - SN74LS257N
0038A					UB01 UB02 UB03	
0039	0006.000	EA		0972787-0003	NETWORK SN74LS367N	
0039A					UA01 UA02 UA03 UA04 UB04	

DRAFTSMAN DATE 11-17-77 DESIGN ENGINEER DATE TITLE INTERFACE 979 MAG TAPE 800/1600BPI  
 APP'D-MFG DATE PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER LM0548990-0001 REV P 4

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL				PAGE 5 of		PART NUMBER LM0948990-0001	REV P 8	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
00398					UE15					
0040	00016.000	EA		0972856-3001	NETWORK, SN74376N					
0040A					UH03 UH12 UH13 UH14 UH15					
0040B					UL01 UL02 UM11 UM12 UM13					
0040C					UN01 UN14 UN15 UP07 UR05					
0040D					LS02					
0041	00003.000	EA		0974849-0001	NETWORK, DM8136					
0041A					UA08 UA09 UA10					
0042	00008.000	EA		0974859-0001	NETWORK, BI-POLAR 28BIT PROCESSOR -3002					
0042A					UEJ01 UEJ02 UEJ03 UEJ04					
0042B					UEK01 UEK02 UEK03 UEK04					
0043	00001.000	EA		0219402-7162	IC SN74S162N	TI	-SN74S162N			
0043A					UL06					
0044	00001.000	EA		0219402-7474	NETWORK SN74S74N					
0044A					UE04					
0045	00001.000	EA		0219402-7260	NETWORK SN74S260N					
0045A					UE08					
0046	00001.000	EA		0972900-7279	NETWORK, SN74LS279					
0046A					UE11					
0047	00001.000	EA		0972556-0001	NETWORK SN74367N	TI	-SN74367N			
DRAFTSMAN				DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	
APPD MFG				DATE	APPD PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO	
INTERFACE 979 MAG TAPE 800J/1600BPI						PART NUMBER LM0948990-0001				REV P 8

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL				PAGE 6 of		PART NUMBER LM0948990-0001	REV P 8	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0047A					UB05					
0048	00006.000	EA		0990035-0002	IC, 4 BIT COUNTER SN74393	TI	-SN74393			
0048A					UB13 UB15 UH08 UM07 UR03					
0048B					LS01					
0049	00001.000	EA		0949005-0001	PROM,TMTC MICROPROGRAM NO.1					
0049A					U.K08					
0050	00001.000	EA		0949005-0022	PROM,TMTC,MICROPROGRAM NO.8					
0050A					U.K09					
0051	00001.000	EA		0949005-0023	PROM,TMTC,MICROPROGRAM NO.9					
0051A					U.K10					
0052	00001.000	EA		0949005-0004	PROM,TMTC MICROPROGRAM NO.4					
0052A					U.K11					
0053	00001.000	EA		0949005-0005	PROM,TMTC MICROPROGRAM NO.5					
0053A					U.J11					
0054	00001.000	EA		0947573-0001	PROM,32X8,BUCCLEAN,PTC NO.1					
0054A					UE12					
0055	00001.000	EA		0947573-0002	PROM,32X8,BUCCLEAN,PTC NO.2					
0055A					UE10					
0056	00002.000	EA		J800118-0008	RESISTOR 1.0KCHMS DIL PULL UP 16 PINS	REC	-8581R1.0K			
0056A					UD03 UD04					
DRAFTSMAN				DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	
APPD MFG				DATE	APPD PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO	
INTERFACE 979 MAG TAPE 800J/1600BPI						PART NUMBER LM0948990-0001				REV P 8

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL				PAGE 7 of		PART NUMBER LM0948990-0001	REV P 8	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0057	00003.000	EA		0996102-0001	IC,MICRO-ADDRESS GENERATOR SN74S482N	TI	-SN74S482N			
0057A					U.J08 U.J09 U.J10					
0058	00001.000	EA		0972547-0008	SWITCH, SLIDE-SPST,DIP 8 SWITCHES					
0058A					UK07					
0059	00003.000	EA		0972975-0033	RES FIX COMP 220 OHMS 5% 1/8 WATT	QPL	-RC050221JS			
0059A					UC12-4 UC12-8 US1U->					
0060	00001.000	EA		0972965-0008	CAP FIX CERAMIC .0047 MF 10% 200 V	QPL	-CK66X472K			
0060A					UC12-7					
0061	00002.000	EA		0972927-0044	CAP FIX MICA 300V 510 PF 5%	QPL	-CM05F511JUC			
0061A					UD10-6 UC11-7					
0062	00002.000	EA		0972927-0045	CAP FIX MICA 300V 560 PF 5%	QPL	-CM05F561JUC			
0062A					UD10-7 UD10-8					
0064	00001.000	EA		0972975-0049	RES FIX COMP 1.0 K OHMS 5% 1/8 WATT	QPL	-RC050102JS			
0064A					UC11-1					
0065	00002.000	EA		0972927-0020	CAP FIX MICA 500V 51.0 PF 5%	QPL	-CM05E510JUC			
0065A					UC14-2 UC14-6					
0066	00001.000	EA		0972929-0391	CAP FIX CERAMIC 470 PF 10% 200 V	QPL	-M39014/01-1391			
0066A					UC14-4					
0067	00002.000	EA		0972975-0041	RES FIX COMP 470 OHMS 5% 1/8 WATT	QPL	-RC050471JS			
0067A					UC14-3 UC14-5					
DRAFTSMAN				DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	
APPD MFG				DATE	APPD PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO	
INTERFACE 979 MAG TAPE 800J/1600BPI						PART NUMBER LM0948990-0001				REV P 8

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL				PAGE 8 of		PART NUMBER LM0948990-0001	REV P 8	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0068	00005.000	EA		0972975-0037	RES FIX COMP 330 OHMS 5% 1/8 WATT	QPL	-RC050331JS			
0068A					UD10-1 UD10-2 UD10-3 UC11-2					
0068B					UC11-3					
0069	00001.000	EA		0972948-0002	TRANSISTOR, 2N2222A NPN GEN PURP Sw TC-18	TI	-2N2222A			
0069A					UC12-2					
0070	00001.000	EA		0418801-0003	CRYSTAL, QUARTZ 3.840 MHZ HC-18/U	QPL	-CR-04/U			
0070A					UB14-2					
0071	00001.000	EA		0972763-0021	CAP, FIXED, AXIAL LEAD, .047 UF, .80%, -20%					
0071A					C1 THRU C17					
0072	00002.000	EA		0966486-0001	INSULATOR PWB STIFFENER					
0073	00002.000	EA		0945239-0001	BRACKET-STIFFENER, PWB, 14IN					
0074	00002.000	EA		0533844-0001	EJECTOR, NYLON, NCA-LOCKING, PWB					
0076	00006.000	EA		0972684-0002	SCREW, THD FRM, HEX WSHR HD, 2-56X1/4 LG					
0077	00001.000	EA		0972975-0060	RES FIX COMP 3.0 K OHMS 5% 1/8 WATT	QPL	-RC050302JS			
0077A					UC12-1					
0078	00001.000	EA		0972929-0400	CAP, FIXED CERAMIC, .0015UF 10% 100V					
0078A					UC11-8					
0081	AR	QT		0415804-0005	SEALING COMPOUND, ANAEROBIC-BLUE GRADE C					
0082	AR	QT		0415804-0010	PRIMER, SEALING COMPOUND, ANAEROBIC					
0083	00002.000	EA		0185113-0001	X SPACER XST TC-18 CASE					
DRAFTSMAN				DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	
APPD MFG				DATE	APPD PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO	
INTERFACE 979 MAG TAPE 800J/1600BPI						PART NUMBER LM0948990-0001				REV P 8

TEXAS INSTRUMENTS INCORPORATED DATE 11/17/77 LIST OF MATERIAL PAGE 9 of LM0948990-0001 P 4

PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0084	AR	EA		0996069-0003	ADH, SOLID, THRMPLSTC 25# BAG ANAEROBIC	PERSAL-917-0302
0086	0002.000	EA		0972525-0001	NETWORK, RESISTOR 28 ELEMENT 16 PIN DIP	BEC --858-5-R 220/3
0086A					UD02 US11	
0087	0001.000	EA		0972137-0009	CONNECTOR P.C. HEADER	BEI - 65483-019
0087A					J6	
0088	00012.000	EA		0539544-0002	SOCKET, 16PIN IC LOW PROFILE SOLDER TAIL	TI -C53-16-02
0088A					XUE10 XUE12 XUF14 XUF15	
0088B					XUL14 XUM08 XUM14 XUN02	
0088C					XUR06, XUJ06, XUJ05, XUJ07	
0089	00013.000	EA		0539544-0010	SOCKET, 20PIN IC LOW PROFILE SOLDER TAIL	TI -C53-20-02
0089A					XUJ08 XUJ09 XUJ10 XUJ11	
0089B					XUK08 XUK09 XUK10 XUK11	
0089C					XUT10 XUT11 XUT12 XUT02	
0089D					XUT05	
0091	0001.000	FT		0411400-0024	WIRE, 24AWG ELECTRO TIN PLATED COPPER	
0092	0001.000	FT		0410455-0005	SLEEVE, TEFLON #24 NATURAL	QPL - MIL-1-22129
0093	0001.000	EA		0399959-9702	RESISTOR SELECTED AT UNIT TEST	
0093A					UD10-4	
0096	0003.000	EA		0972686-0002	NETWORK SN74LS158N	
0096A					US03 US04 US05	
DRAFTSMAN DATE CKD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE INTERFACE 979 MAG TAPE 800/1600BPI						
APPRO. MFC DATE APPO. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM0948990-0001 P 4						

TEXAS INSTRUMENTS INCORPORATED DATE 11/17/77 LIST OF MATERIAL PAGE 10 of LM0948990-0001 P 4

PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0097	00011.000	EA		0972665-0001	NETWORK, SN74LS163N	
0097A					UP01 UR01 US14 US15 UP11	
0097B					UP12 UP13 UR12 UR13 UR14	
0097C					UR15	
0098	00011.000	EA		0972688-0001	NETWORK SN74LS164N	
0098A					UK06 UL08 UL09 UM10 UN06	
0098B					UN08 UN09 UP06 UR02 UM09	
0098C					UN07	
0099	00001.000	EA		0219402-7408	NETWORK SN74S08N	TI - -SN74S08N
0099A					UL03	
0100	00001.000	EA		0948985-0001	PROM, BOOLEAN, TMTC, 512, NO. 1	
0100A					UL14	
0101	00001.000	EA		0948985-0002	PROM, BOOLEAN, TMTC, 512, NO. 2	
0101A					UM08	
0102	00001.000	EA		0948985-0003	PROM, BOOLEAN, TMTC, 512, NO. 3	
0102A					UN02	
0104	00001.000	EA		0219402-7432	NETWORK SN74S32N	TI - -SN74S32N
0104A					UL04	
0105	0001.000	EA		0948991-0001	PROM, BOOLEAN, TMTC, 2K, NO. 1	
0105A					U.T10	
DRAFTSMAN DATE CKD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE INTERFACE 979 MAG TAPE 800/1600BPI						
APPRO. MFC DATE APPO. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM0948990-0001 P 4						

TEXAS INSTRUMENTS INCORPORATED DATE 11/17/77 LIST OF MATERIAL PAGE 11 of LM0948990-0001 P 4

PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0106	0001.000	EA		0948987-0001	PROM, BOOLEAN, TMTC 4K	
0106A					U.T12	
0108	0001.000	EA		0222222-7442	NETWORK-SN7442N	
0108A					UL07	
0109	0002.000	EA		0972975-0059	RES FIX COMP 2.7 K OHMS 5 % 1/8 WATT	QPL - RC056272JS
0109A					UC11-5, UC14-1	
0113	0001.000	EA		0222222-7120	NETWORK-SN74120N	TI - -SN74120N
0113A					UP09	
0115	0003.000	EA		0800392-0002	PLUG, ACAPTOR, COMPONENT	616-CG-1
0115A					U.T03 U.T06 U.T07	
0116	0000.100	FT		0411634-1310	SLEEVE, PVC, .133 DIA. CLEAR	JPL - MIL-1-631
0117	0001.000	EA		0972537-0001	DIODE, LED 550-0103 50 MA 3 V	DIA --550-0103
0117A					U.T09-11	
0118	0001.000	EA		0972188-0001	NETWORK, NE555V, MONOLITHIC TIMING, LINEAR	ST -NE555V
0118A					UR10-1	
0119	0001.000	EA		0539795-0009	RES VAR CERMET 5.0 K OHMS 10 % .75 WATT	HUL -3069P-1-502
0119A					UR10-6	
0120	0002.000	EA		0972975-0039	RES FIX COMP 390 OHMS 5 % 1/8 WATT	QPL - RC056391JS
0120A					US10-1 US10-2	
0121	0001.000	EA		0972927-0051	CAP FIX MICA 100V 100V PF 5 %	QPL -CM05F102J0A
DRAFTSMAN DATE CKD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE INTERFACE 979 MAG TAPE 800/1600BPI						
APPRO. MFC DATE APPO. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM0948990-0001 P 4						

TEXAS INSTRUMENTS INCORPORATED DATE 11/17/77 LIST OF MATERIAL PAGE 12 of LM0948990-0001 P 4

PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0121A					US10-3	
0122	0001.000	EA		0972788-0001	NETWORK, SN74LS11, POSITIVE AND GATE	
0122A					UM03	
0123	0001.000	EA		0948991-0002	PROM, BOOLEAN, TMTC 2K, NO. 2	
0123A					U.T11	
0124	0001.000	EA		0947573-0003	PROM, 32X8, BOOLEAN, MTC NO. 3	
0124A					UR06	
0125	0003.000	EA		0219402-7251	NETWORK SN74S251	
0125A					UL10 UL11 UL12	
0126	0001.000	EA		0972900-7112	NETWORK SN74LS112N	TI - -SN74LS112N
0126A					UM04	
0127	0001.000	FT		0411634-0510	SLEEVE, PVC, .053 DIA. CLEAR	QPL - MIL-1-631
0128	0001.000	FT		0411400-0016	WIRE, 16AWG, SCLID, UNINSULATED	
0129	0001.000	EA		0938110-0001	ASSY, MTC PHASE LOCK LOOP PLATFORM	
0129A					UH05	
0130	0001.000	EA		0972784-0002	NETWORK SN74LS14N	
0130A					UH01	
0131	0001.000	SF		0415218-1140	SHEET .014 MYLAR POLYESTER FILM	APL - MYLAR SHEET
DRAFTSMAN DATE CKD DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE INTERFACE 979 MAG TAPE 800/1600BPI						
APPRO. MFC DATE APPO. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM0948990-0001 P 4						

TEXAS INSTRUMENTS INCORPORATED DATE 11/17/77 LIST OF MATERIAL PAGE 1 of PART NUMBER LM0948990-0002 REV p 4

PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0199	0001.000	EA		0948990-0001	INTERFACE 979 MAG TAPE 800/1600BPI	
0200	REF	EA		0948988-9901	MODIFICATION PROCEDURE, 979 TMT TO GEM	
0201	0001.000	EA		0772565-0004	ADAPTER, PLUG, 16 PINS	
0202	00000.50J	FT		0411400-0024	WIRE, 24AWG ELECTRO TIN PLATED COPPER	
0203	0001.000	EA		0772565-0006	ADAPTER, PLUG, 16 PINS .885LGX.450WD	091506-616-2P1

DRAFTSMAN DATE C/D DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE I/F, TMT, OEM, NRZ1, 37.5 IPS.  
 APP'D. MFG. DATE APP'D. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER LM0948990-0002 REV p 4

TEXAS INSTRUMENTS INCORPORATED DATE 11/17/77 LIST OF MATERIAL PAGE 1 of PART NUMBER LM0948990-0003 REV p 4

PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0199	0001.000	EA		0948990-0001	INTERFACE 979 MAG TAPE 800/1600BPI	
0200	REF	EA		0948988-9901	MODIFICATION PROCEDURE, 979 TMT TO GEM	
0201	0001.000	EA		0772565-0004	ADAPTER, PLUG, 16 PINS	
0202	00000.500	FT		0411400-0024	WIRE, 24AWG ELECTRO TIN PLATED COPPER	
0203	0001.000	EA		0772565-0006	ADAPTER, PLUG, 16 PINS .885LGX.450WD	091506-616-2P1

DRAFTSMAN DATE C/D DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE I/F, TMT, OEM, PE, 37.5 IPS.  
 APP'D. MFG. DATE APP'D. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER LM0948990-0003 REV p 4

TEXAS INSTRUMENTS INCORPORATED DATE 11/17/77 LIST OF MATERIAL PAGE 1 of PART NUMBER LM0948990-0004 REV p 4

PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0199	0001.000	EA		0948990-0001	INTERFACE 979 MAG TAPE 800/1600BPI	
0200	REF	EA		0948988-9901	MODIFICATION PROCEDURE, 979 TMT TO GEM	
0201	0001.000	EA		0772565-0004	ADAPTER, PLUG, 16 PINS	
0202	00000.500	FT		0411400-0024	WIRE, 24AWG ELECTRO TIN PLATED COPPER	
0203	0001.000	EA		0772565-0006	ADAPTER, PLUG, 16 PINS .885LGX.450WD	091506-616-2P1

DRAFTSMAN DATE C/D DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE I/F, TMT, OEM, DUAL DENS. 37.5 IPS.  
 APP'D. MFG. DATE APP'D. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER LM0948990-0004 REV p 4

TEXAS INSTRUMENTS INCORPORATED DATE 11/17/77 LIST OF MATERIAL PAGE 1 of PART NUMBER LM0948990-0005 REV p 4

PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0199	0001.000	EA		0948990-0001	INTERFACE 979 MAG TAPE 800/1600BPI	
0200	REF	EA		0948988-9901	MODIFICATION PROCEDURE, 979 TMT TO GEM	
0201	0001.000	EA		0772565-0004	ADAPTER, PLUG, 16 PINS	
0202	00000.50J	FT		0411400-0024	WIRE, 24AWG ELECTRO TIN PLATED COPPER	
0203	0001.000	EA		0772565-0006	ADAPTER, PLUG, 16 PINS .885LGX.450WD	091506-616-2P1
0210	0001.000	EA		0972929-0378	CAPACITOR, 82PF 1/4 200VDC FX CER DIELECT	-4PL39014
0211	0001.000	EA		0996069-0003	ADH, SOLID, THRMPLSTC 25# BAG ANAEROBIC	PERSAL-917-6302

DRAFTSMAN DATE C/D DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE I/F, TMT, OEM, NRZ1, 18.75 IPS.  
 APP'D. MFG. DATE APP'D. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER LM0948990-0005 REV p 4

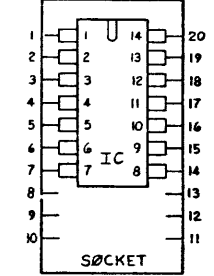
TEXAS INSTRUMENTS INCORPORATED		DATE 11/17/77		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0948990-0006		REV P 1		
PART ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0199	00001.000	EA		0948990-0001	INTERFACE 979 MAG TAPE 800/1600BPI							
0200	REF	EA		0948988-9901	MODIFICATION PROCEDURE, 979 TMTC TO OEM							
0201	00001.000	EA		0772565-0004	ADAPTER, PLUG, 16 PINS							
0202	00000.500	FT		0411400-0024	WIRE, 24AWG ELECTRO TIN PLATED COPPER							
0203	00001.000	EA		0772565-0006	ADAPTER, PLUG, 16PINS .885LGX.450WD	091506-616-2P1						
0210	00001.000	EA		0972929-0378	CAPACITOR, 82PF 10% 200VDC FX CER DIELECT	-QPL39014						
0211	00001.000	EA		0996065-0003	ADH, SOLID, THRMPLSTC 25# BAG ANAEROBIC	PERSAL-917-6302						
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	I/F, TMTC, GEN, PE, 18.75 IPS.				
APP'D MFG		DATE	APP'D PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	LM0948990-0006 P 1				

TEXAS INSTRUMENTS INCORPORATED		DATE 11/17/77		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0948990-0007		REV P 1		
PART ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0199	00001.000	EA		0948990-0001	INTERFACE 979 MAG TAPE 800/1600BPI							
0200	REF	EA		0948988-9901	MODIFICATION PROCEDURE, 979 TMTC TO OEM							
0201	00001.000	EA		0772565-0004	ADAPTER, PLUG, 16 PINS							
0202	00000.500	FT		0411400-0024	WIRE, 24AWG ELECTRO TIN PLATED COPPER							
0203	00001.000	EA		0772565-0006	ADAPTER, PLUG, 16PINS .885LGX.450WD	091506-616-2P1						
0210	00001.000	EA		0972929-0378	CAPACITOR, 82PF 10% 200VDC FX CER DIELECT	-QPL39014						
0211	00001.000	EA		0996065-0003	ADH, SOLID, THRMPLSTC 25# BAG ANAEROBIC	PERSAL-917-6302						
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	I/F, TMTC, GEN, DUAL DENS. 18.75 IPS.				
APP'D MFG		DATE	APP'D PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	LM0948990-0007 P 1				

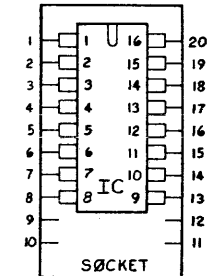
TEXAS INSTRUMENTS INCORPORATED		DATE 11/17/77		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0948990-0008		REV P 1		
PART ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0199	00001.000	EA		0948990-0001	INTERFACE 979 MAG TAPE 800/1600BPI							
0200	REF	EA		0948988-9901	MODIFICATION PROCEDURE, 979 TMTC TO OEM							
0201	00001.000	EA		0772565-0004	ADAPTER, PLUG, 16 PINS							
0202	00000.500	FT		0411400-0024	WIRE, 24AWG ELECTRO TIN PLATED COPPER							
0203	00001.000	EA		0772565-0006	ADAPTER, PLUG, 16PINS .885LGX.450WD	091506-616-2P1						
0204	00002.000	EA		0972975-0033	RES FIX COMP 220 OHMS 5% 1/8 WATT	QPL - RC056221J5						
0205	00001.000	EA		0996303-0001	TRANSISTOR, 2N5449, NPN SILICONE	001295-2N5449						
0206	00000.500	FT		0410499-0005	SLEEVE, TEFLON #24 NATURAL	QPL - MIL-1-22129						
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	I/F, TMTC, GEN, DUAL DENS. w/ ADAPT., 37.5				
APP'D MFG		DATE	APP'D PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	LM0948990-0008 P 1				

TEXAS INSTRUMENTS INCORPORATED		DATE 11/17/77		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0948990-0009		REV P 1		
PART ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0199	00001.000	EA		0948990-0001	INTERFACE 979 MAG TAPE 800/1600BPI							
0200	REF	EA		0948988-9901	MODIFICATION PROCEDURE, 979 TMTC TO OEM							
0201	00001.000	EA		0772565-0004	ADAPTER, PLUG, 16 PINS							
0202	00000.500	FT		0411400-0024	WIRE, 24AWG ELECTRO TIN PLATED COPPER							
0203	00001.000	EA		0772565-0006	ADAPTER, PLUG, 16PINS .885LGX.450WD	091506-616-2P1						
0204	00002.000	EA		0972975-0033	RES FIX COMP 220 OHMS 5% 1/8 WATT	QPL - RC056221J5						
0205	00001.000	EA		0996303-0001	TRANSISTOR, 2N5449, NPN SILICONE	001295-2N5449						
0206	00000.500	FT		0410499-0005	SLEEVE, TEFLON #24 NATURAL	QPL - MIL-1-22129						
0210	00001.000	EA		0972929-0378	CAPACITOR, 82PF 10% 200VDC FX CER DIELECT	-QPL39014						
0211	00001.000	EA		0996065-0003	ADH, SOLID, THRMPLSTC 25# BAG ANAEROBIC	PERSAL-917-6302						
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	I/F, TMTC, GEN, DUAL DENS. w/ ADAPT., 18.75				
APP'D MFG		DATE	APP'D PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	LM0948990-0009 P 1				

6. WHEN A 14-PIN IC IS USED IN A 20-PIN SOCKET, THE IC PIN NUMBER SHOWN ON THE LOGIC DIAGRAM IS THE SAME AS THE SOCKET PIN NUMBER. THEREFORE; IC PIN 8 IS LABELED PIN 14, IC PIN 9 IS LABELED PIN 15, ETC.



7. WHEN A 16-PIN IC IS USED IN A 20-PIN SOCKET, THE IC PIN NUMBER SHOWN ON THE LOGIC DIAGRAM IS THE SAME AS THE SOCKET PIN NUMBER. THEREFORE; IC PIN 9 IS LABELED PIN 13, IC PIN 10 IS LABELED PIN 14, ETC.



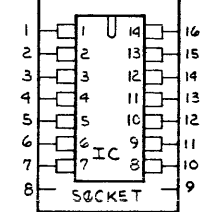
NOTES: UNLESS OTHERWISE SPECIFIED;

1. ALL DEVICE TYPES ARE PREFIXED WITH SN74.
2. GROUND IS APPLIED TO PIN 7 OF ALL 14-PIN IC'S, PIN 8 OF ALL 16-PIN IC'S, AND PIN 10 OF ALL 20-PIN IC'S.
3. VCC IS APPLIED TO PIN 14 OF ALL 14-PIN IC'S, PIN 16 OF ALL 16-PIN IC'S, AND PIN 20 OF ALL 20-PIN IC'S.
4. DEVICE TYPE, PIN NUMBERS, AND LOCATION OF IC IS SHOWN AS FOLLOWS:



C0 AND C4 = DEVICE TYPE  
 4, 5 AND 6 = PIN NUMBERS  
 B08 AND D14 = LOCATION; FIRST LETTER DENOTES ROW, SECOND AND THIRD DIGITS DENOTE COLUMN, IC IS LOCATED AT INTERSECTION OF ROW AND COLUMN.

5. WHEN A 14-PIN IC IS USED IN A 16-PIN SOCKET, THE IC PIN NUMBER SHOWN ON THE LOGIC DIAGRAM IS THE SAME AS THE SOCKET PIN NUMBER. THEREFORE; IC PIN 8 IS LABELED PIN 10, IC PIN 9 IS LABELED PIN 11, ETC.



REVISIONS			
ZONE	LTR	DESCRIPTION	DATE
	A	CH4212777	5-77
	B	CH420933 (C) E. K. K. K.	5-77
	D	CH437936 (C) E. K. K. K.	5-77

REV STATUS	REV	D	D	D	D	C	C		D		A	D	B		D	A	D	D	C										
OF SHEETS	SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28

QTY	REQD	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION

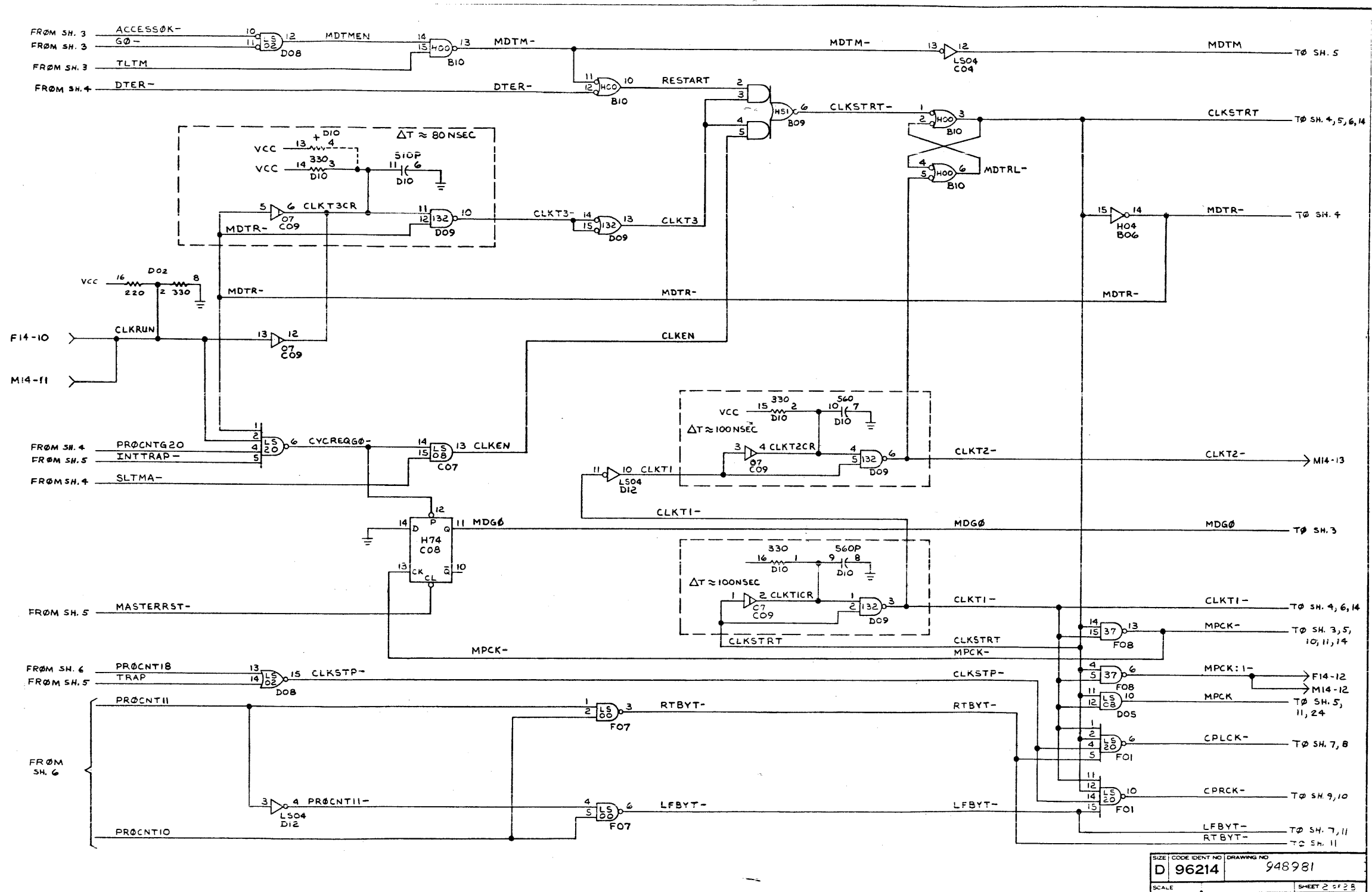
  

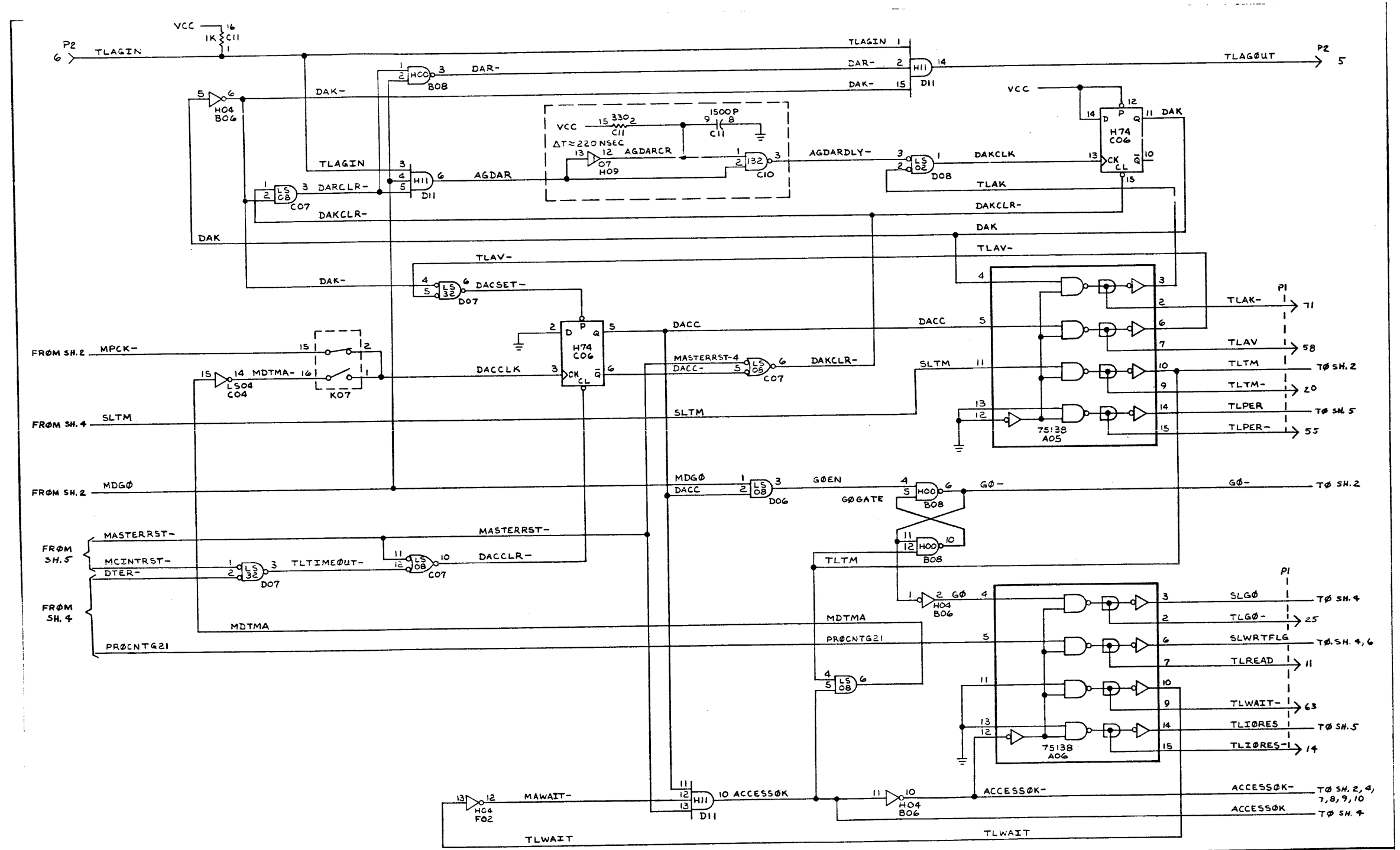
UNLESS OTHERWISE SPECIFIED	UNLESS OTHERWISE SPECIFIED	OWN	DATE
REMOVE ALL BURRS AND SHARP EDGES	DIMENSIONS ARE IN INCHES	CHK	1-17-77
CONCENTRICITY MACHINED DIAMETERS .010 FIR	TOLERANCES	ENGR	1-17-77
DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING	ANGLES 90°	GA	1-17-77
IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY	3 PLACE DECIMALS ±.010	APVD	1-17-77
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100	2 PLACE DECIMALS ±.02	CONTR NO	
HOLE TOLERANCE	MATERIAL	DESIGN ACTIVITY RELEASE	
013 - .004			
THRU - .001			
126			
THRU - .005			
125 - .001			
THRU - .001			
501 - .008			
THRU - .001			
1.000			

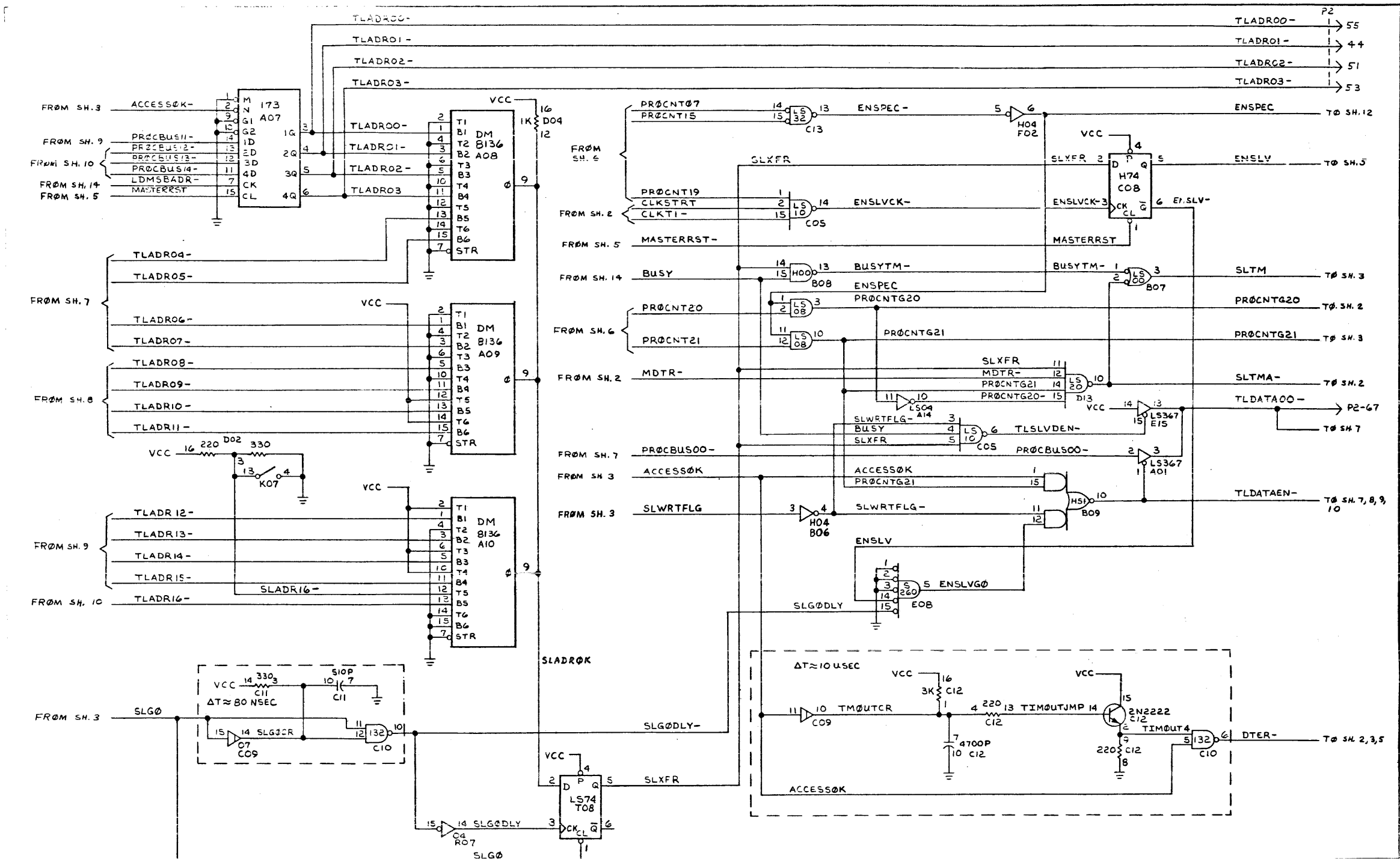
TEXAS INSTRUMENTS IN CORPORATION Equipment Group Dallas, Texas	
LOGIC DIAGRAM, TI LINE MAG TAPE CONTROLLER 800/1600 BPI (M/W)	
SIZE	CODE IDENT NO   DRAWING NO
D	96214   948931
SCALE	SHEET 1 OF 28



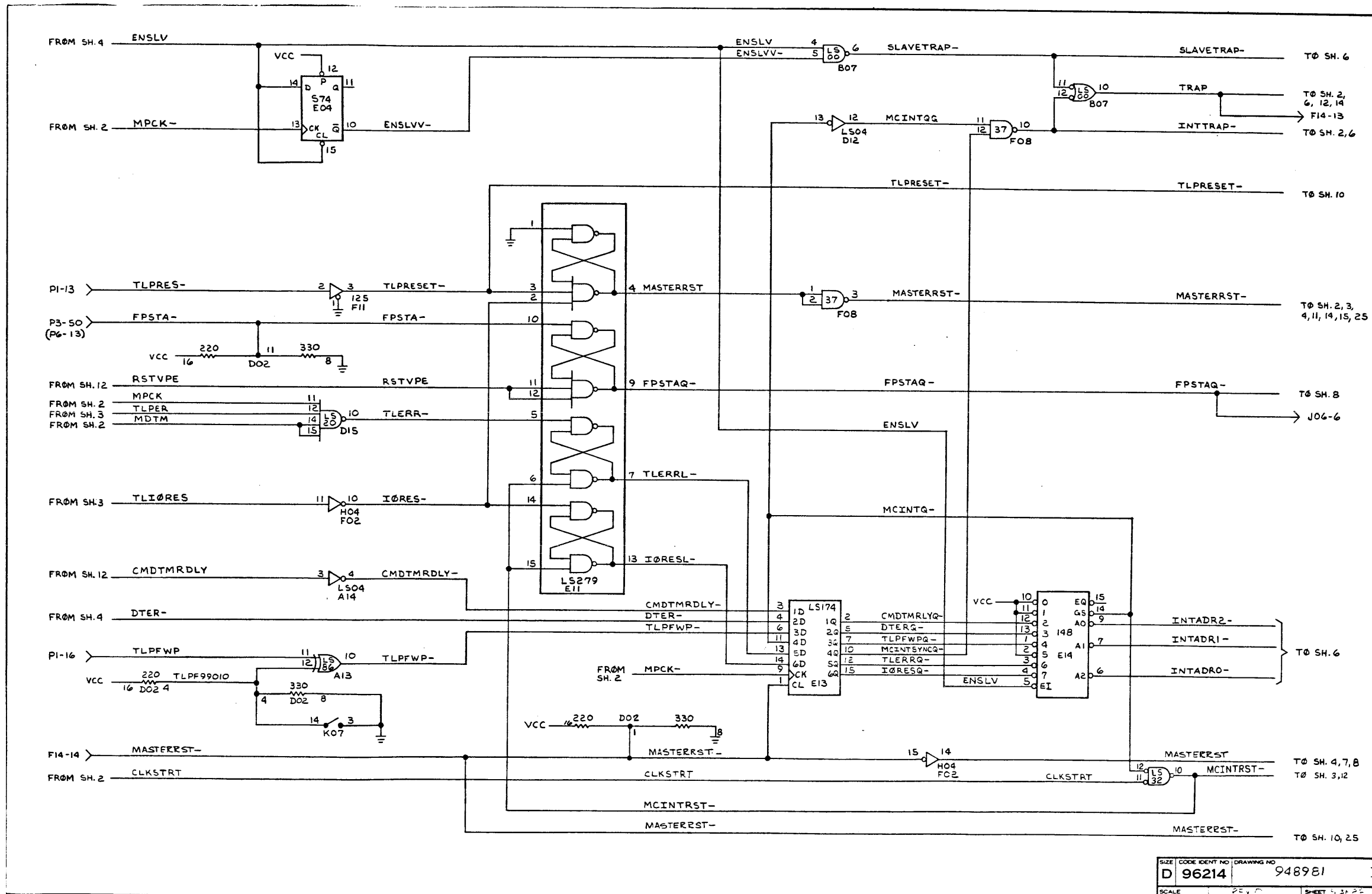




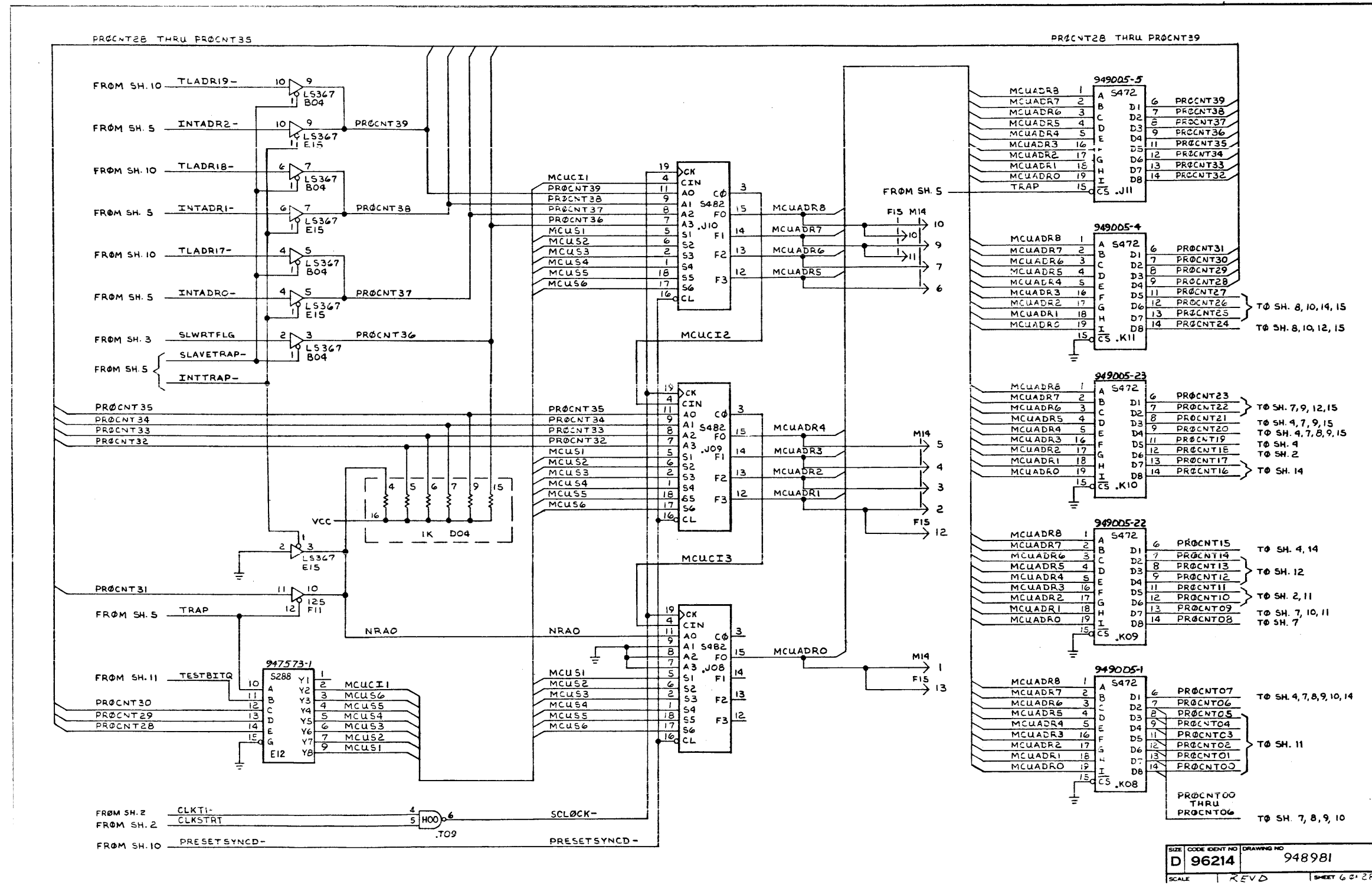
SIZE	CODE IDENT NO	DRAWING NO
D	96214	948981
SCALE	REV D	SHEET 3 OF 28

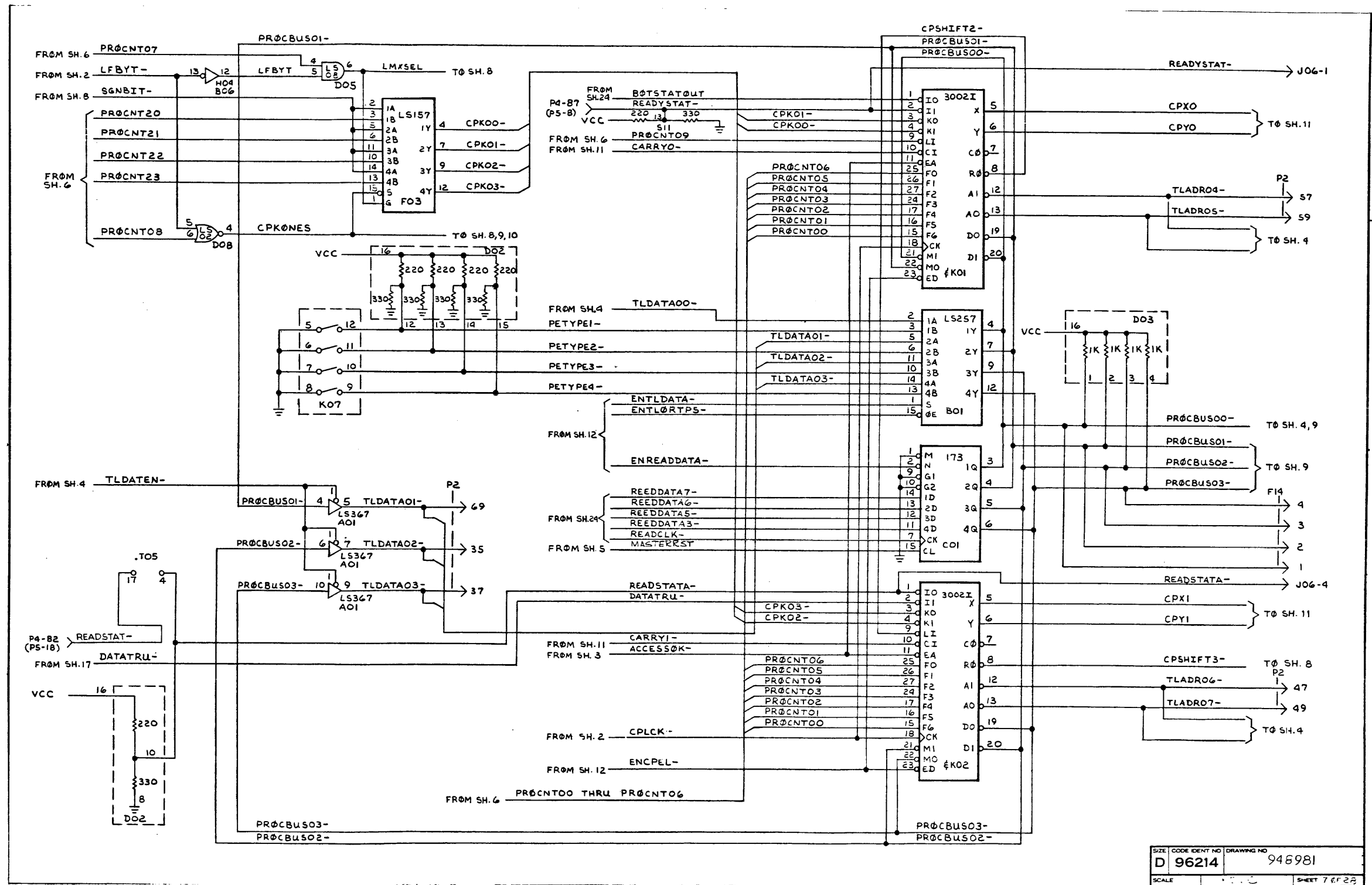


SIZE	CODE IDENT NO	DRAWING NO
D	96214	948981
SCALE	1:1	SHEET 4 OF 28

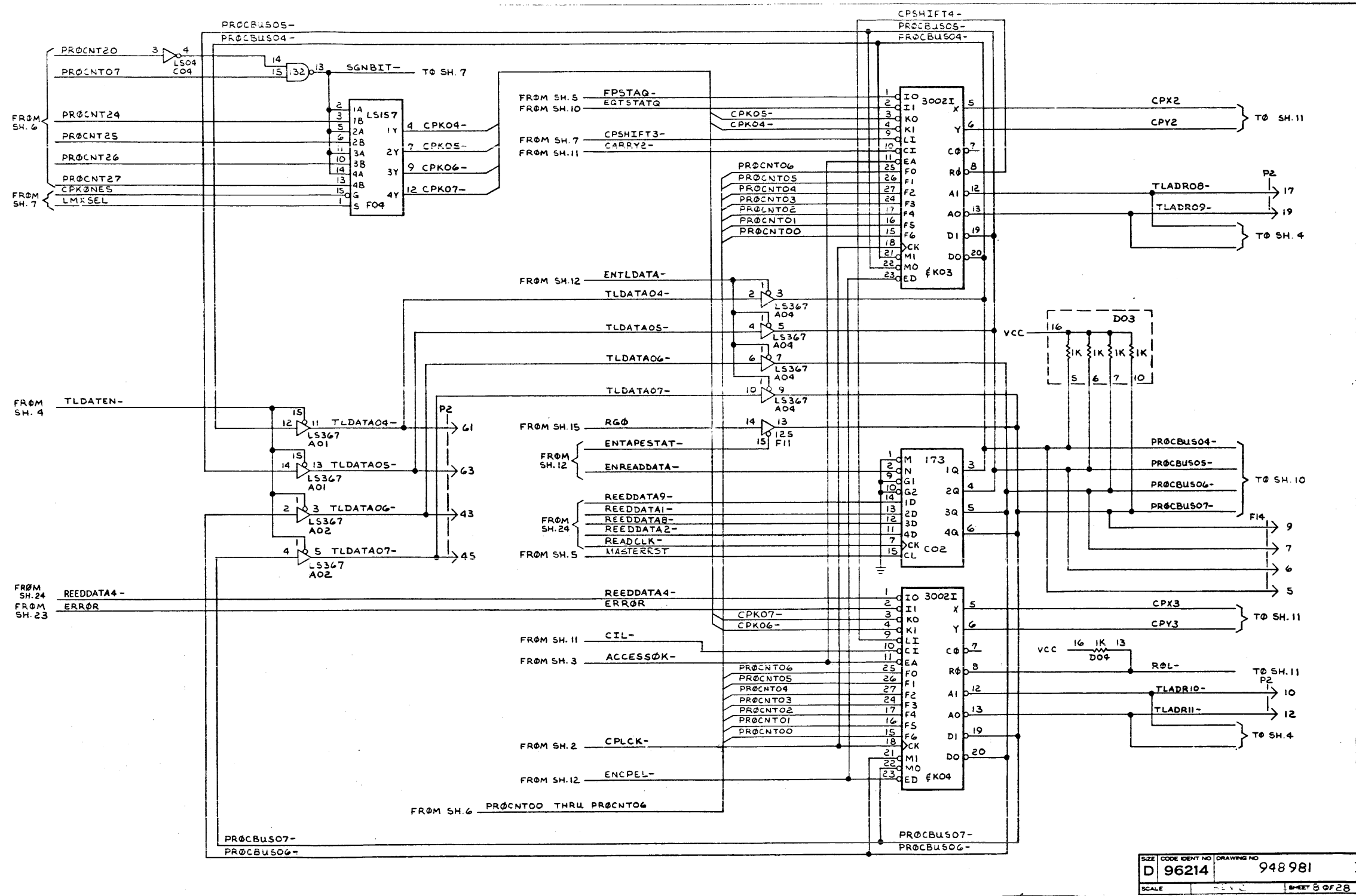


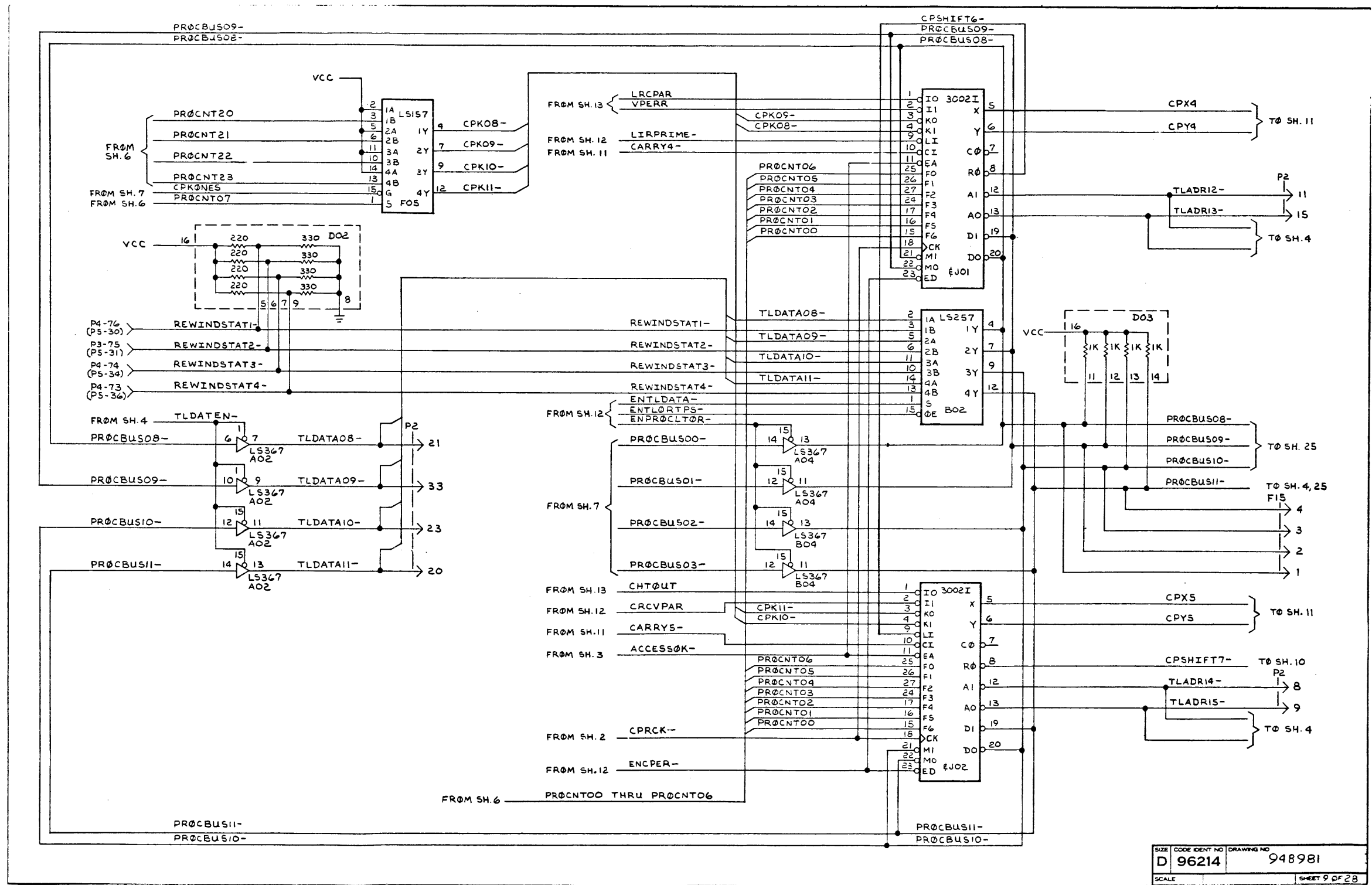
SIZE	CODE IDENT NO	DRAWING NO
D	96214	948981
SCALE	REV	SHEET 3 OF 25





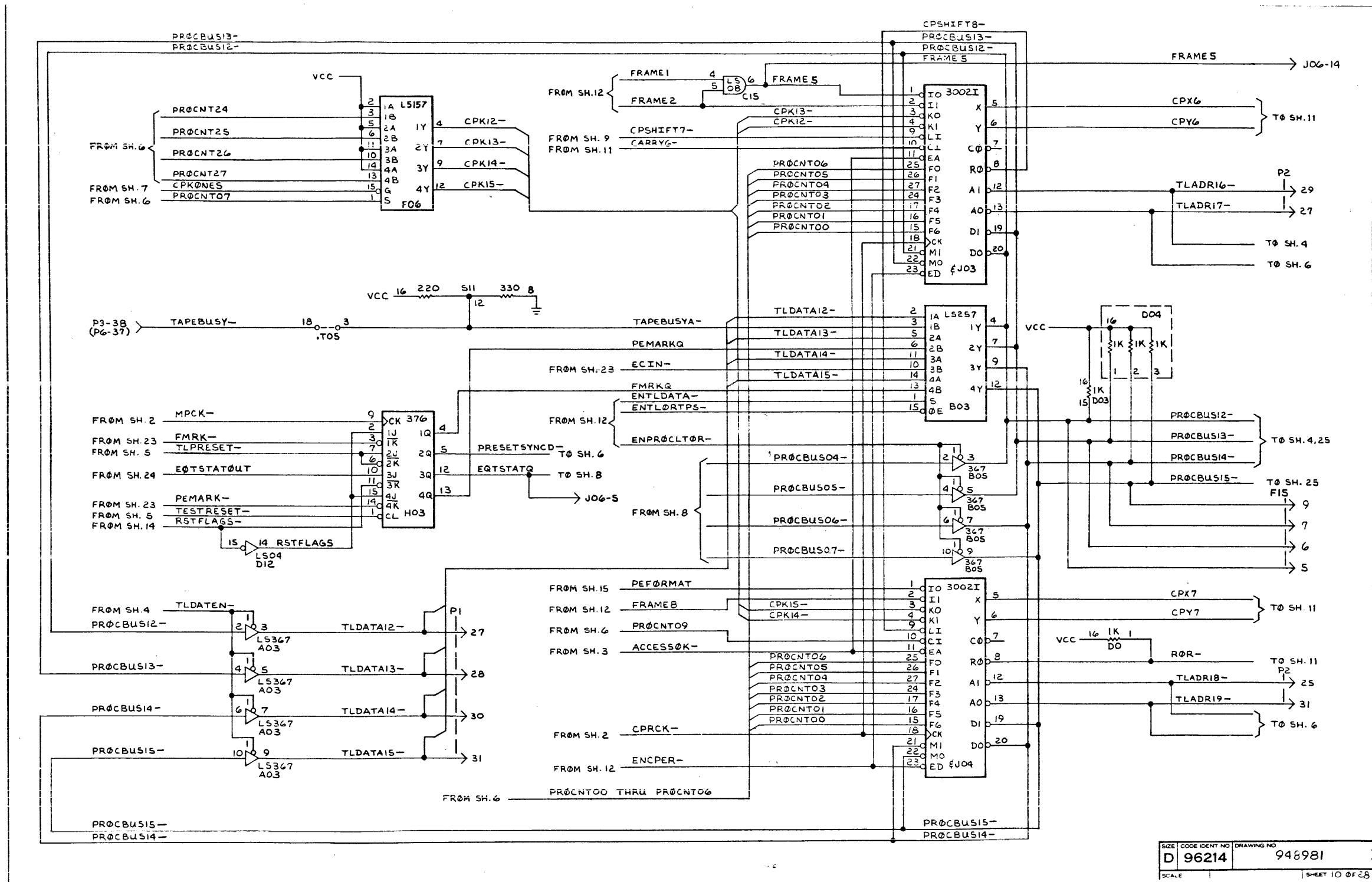
SIZE	CODE IDENT NO	DRAWING NO
D	96214	946981
SCALE		SHEET 7 of 23

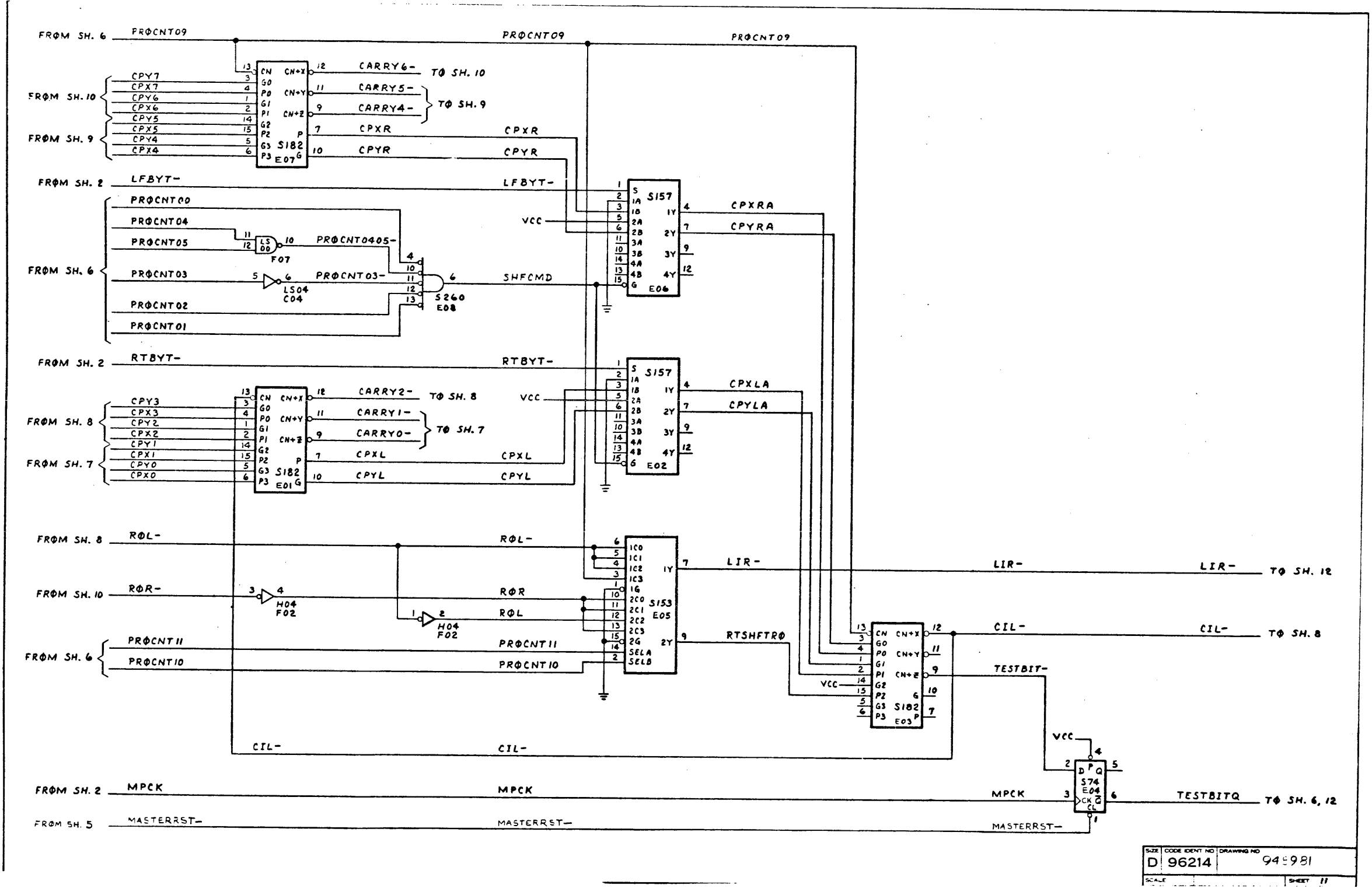




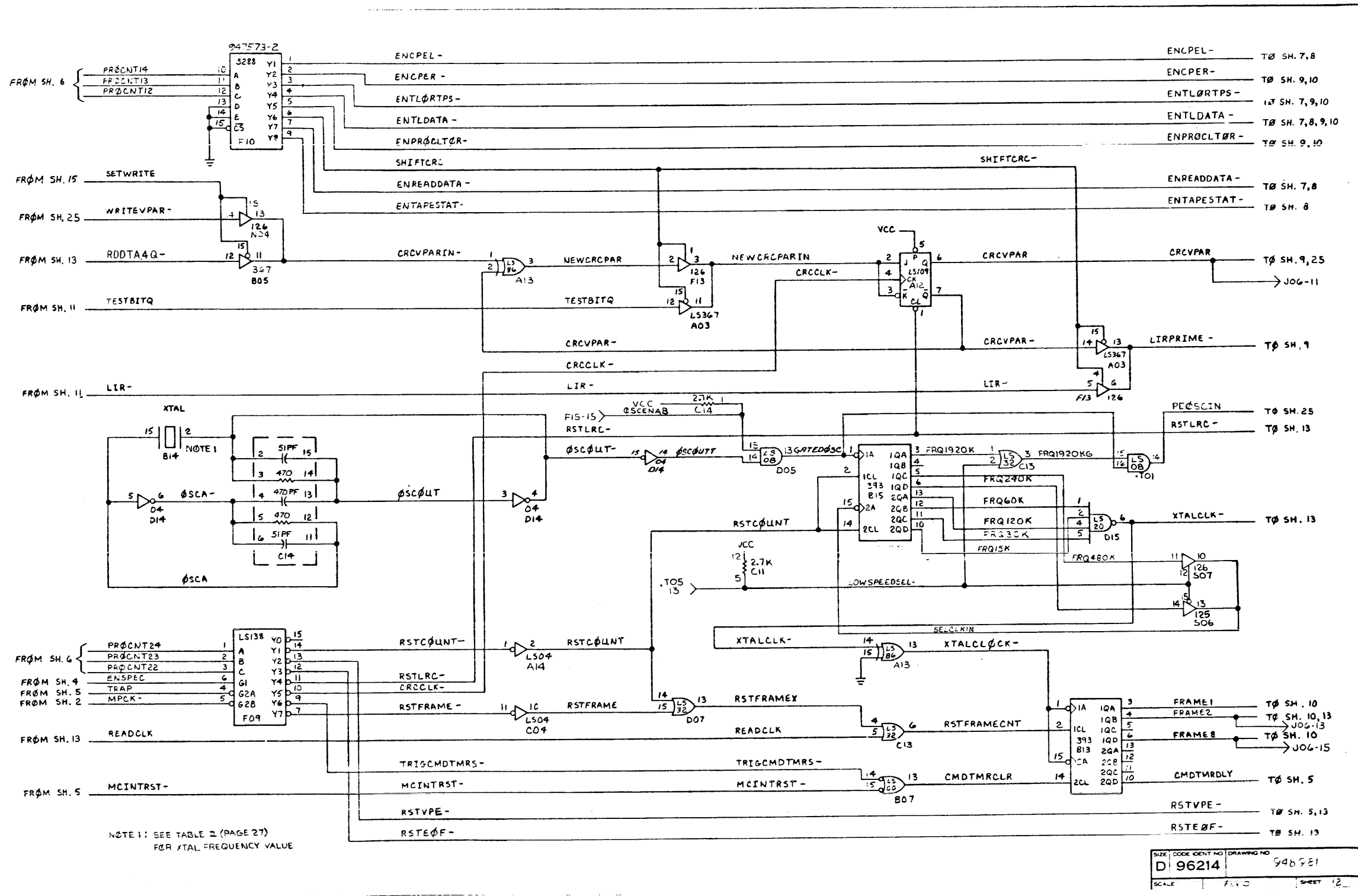
SIZE	CODE IDENT NO	DRAWING NO
D	96214	948981
SCALE	SHEET 9 OF 28	

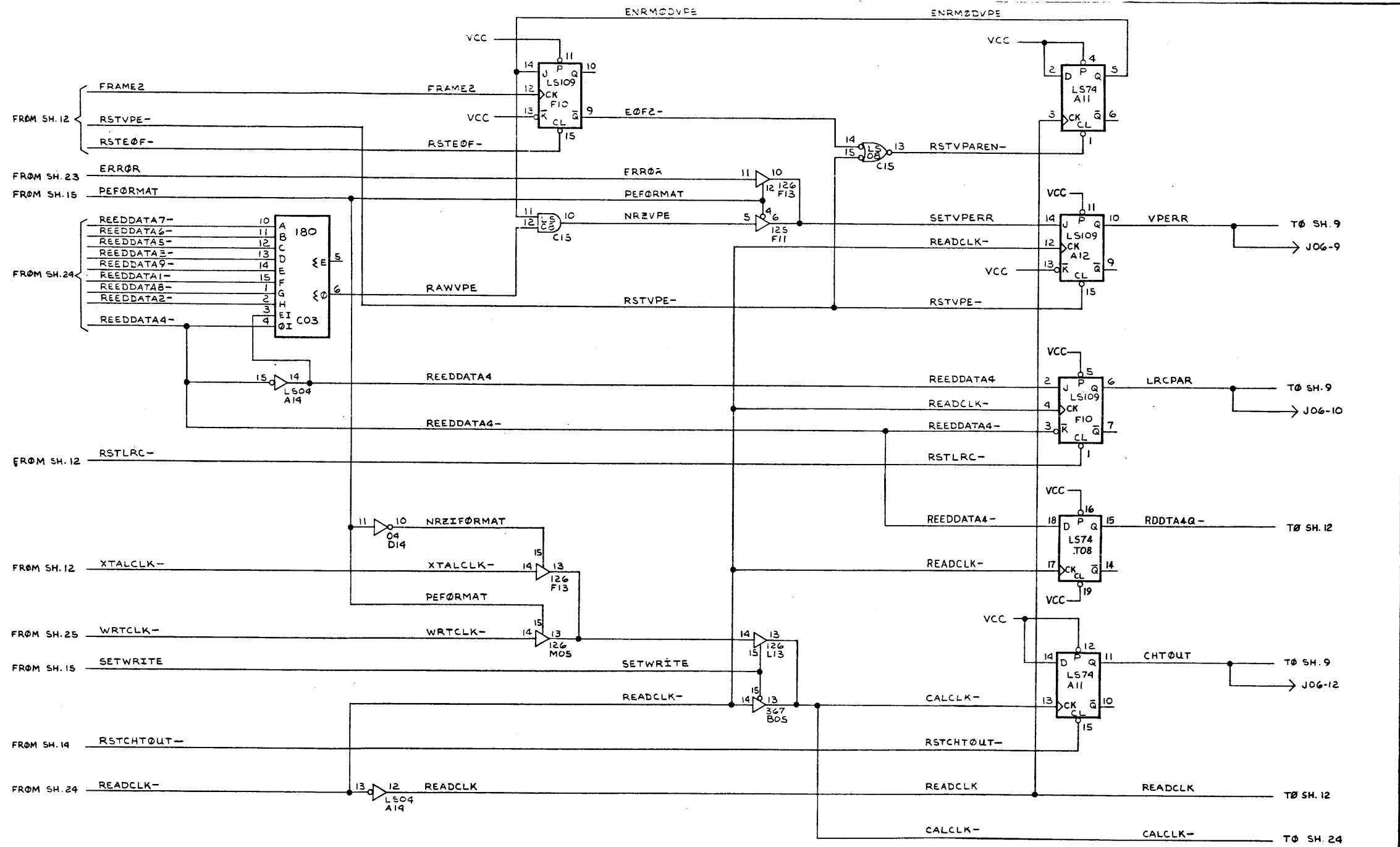




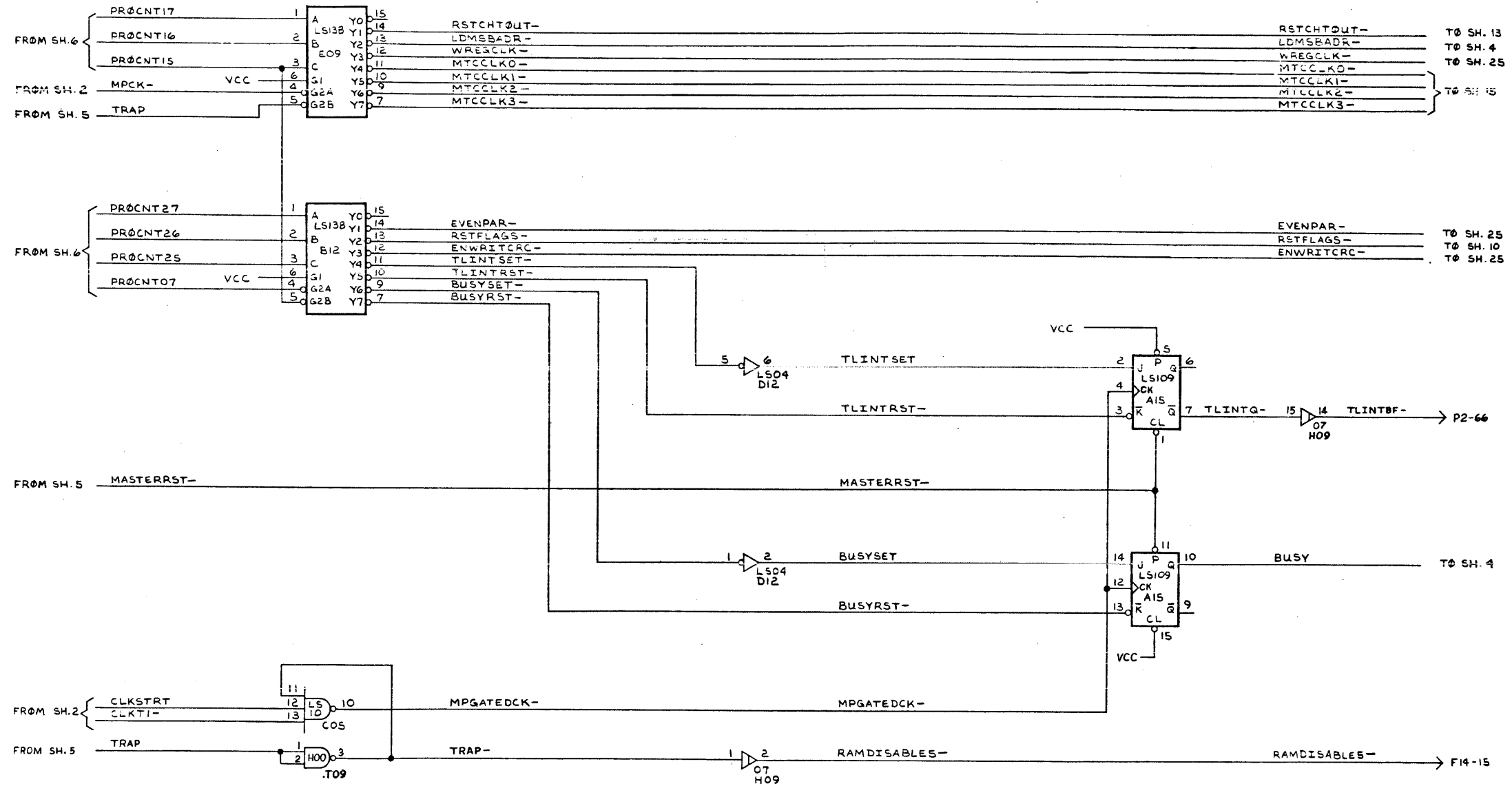


SIZE	CODE	IDENT. NO.	DRAWING NO.
D	96214		94-981
SCALE		SHEET	11

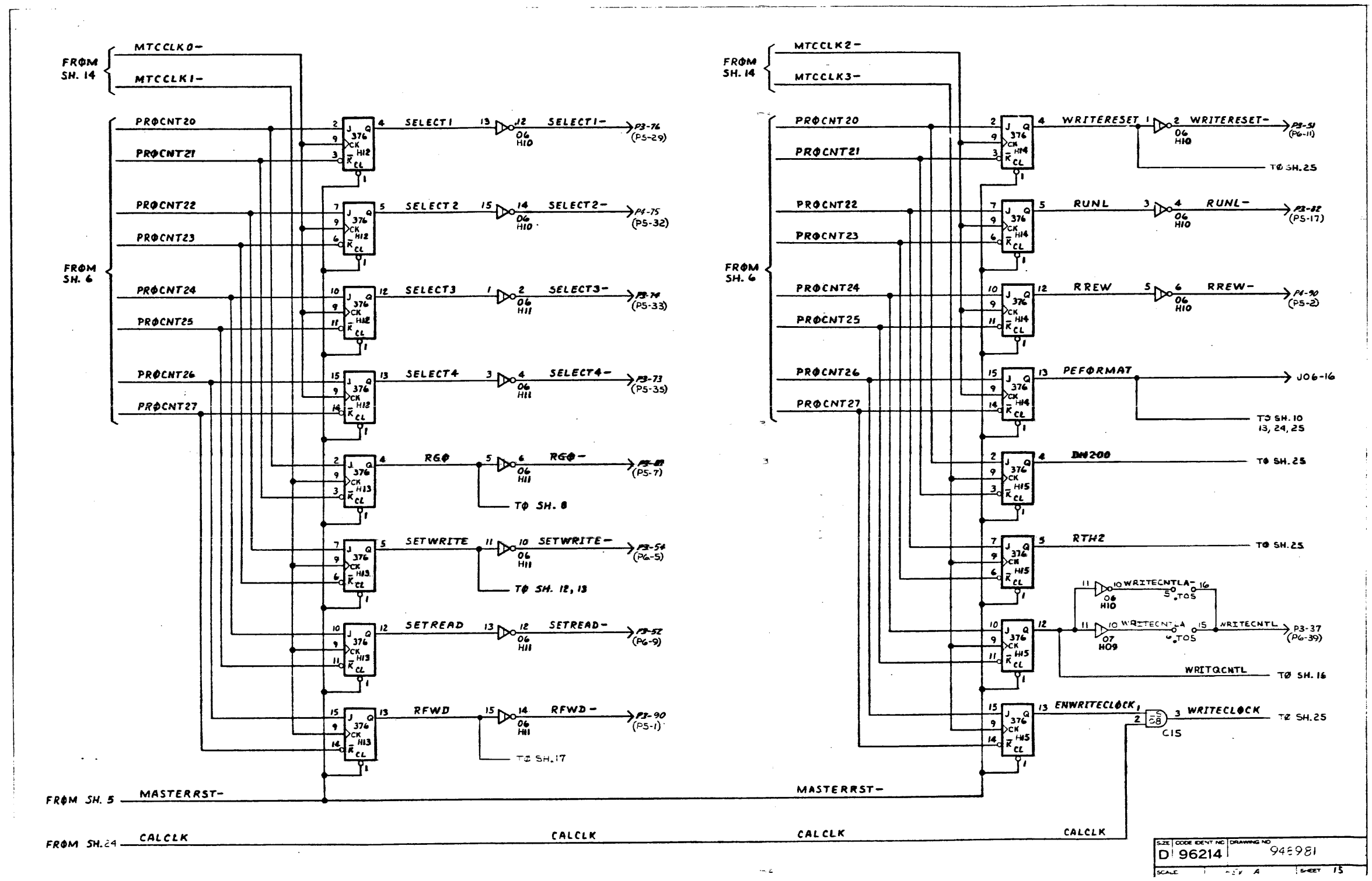


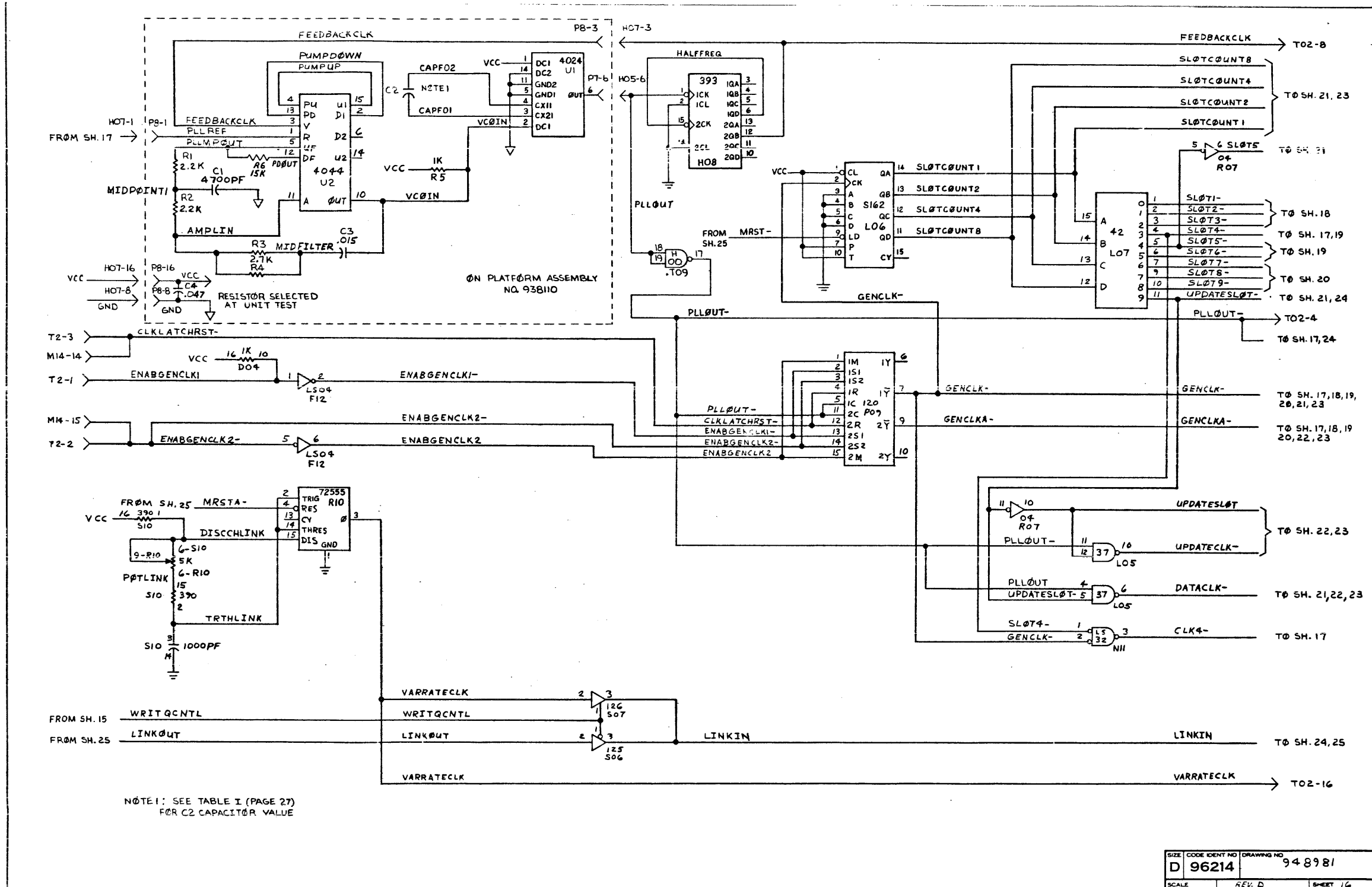


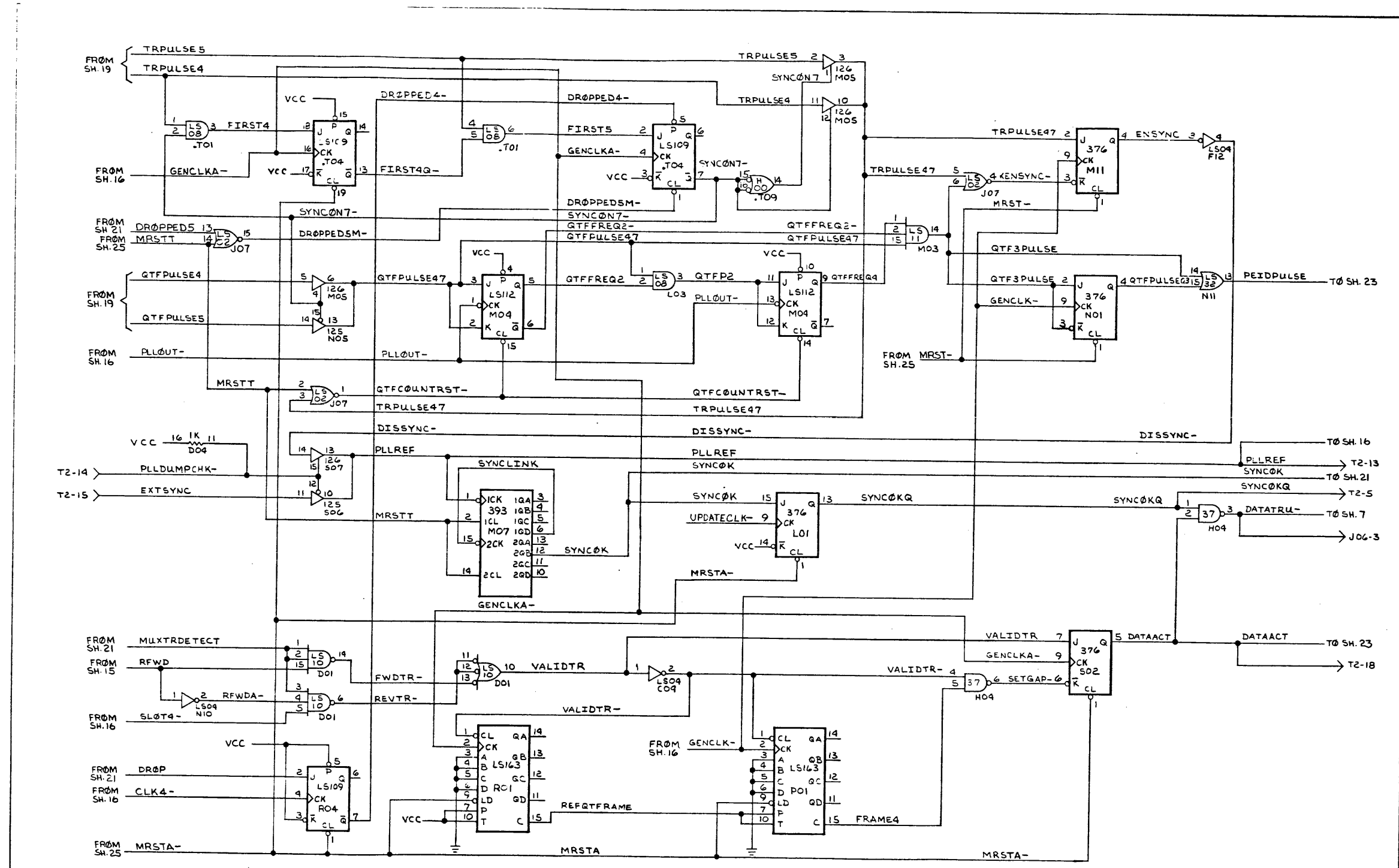
SIZE	CODE IDENT NO	DRAWING NO
D	96214	948981
SCALE	SHEET 13 OF 28	



SIZE	CODE	IDENT NO	DRAWING NO
D	96214		948981
SCALE			SHEET 14 OF 25

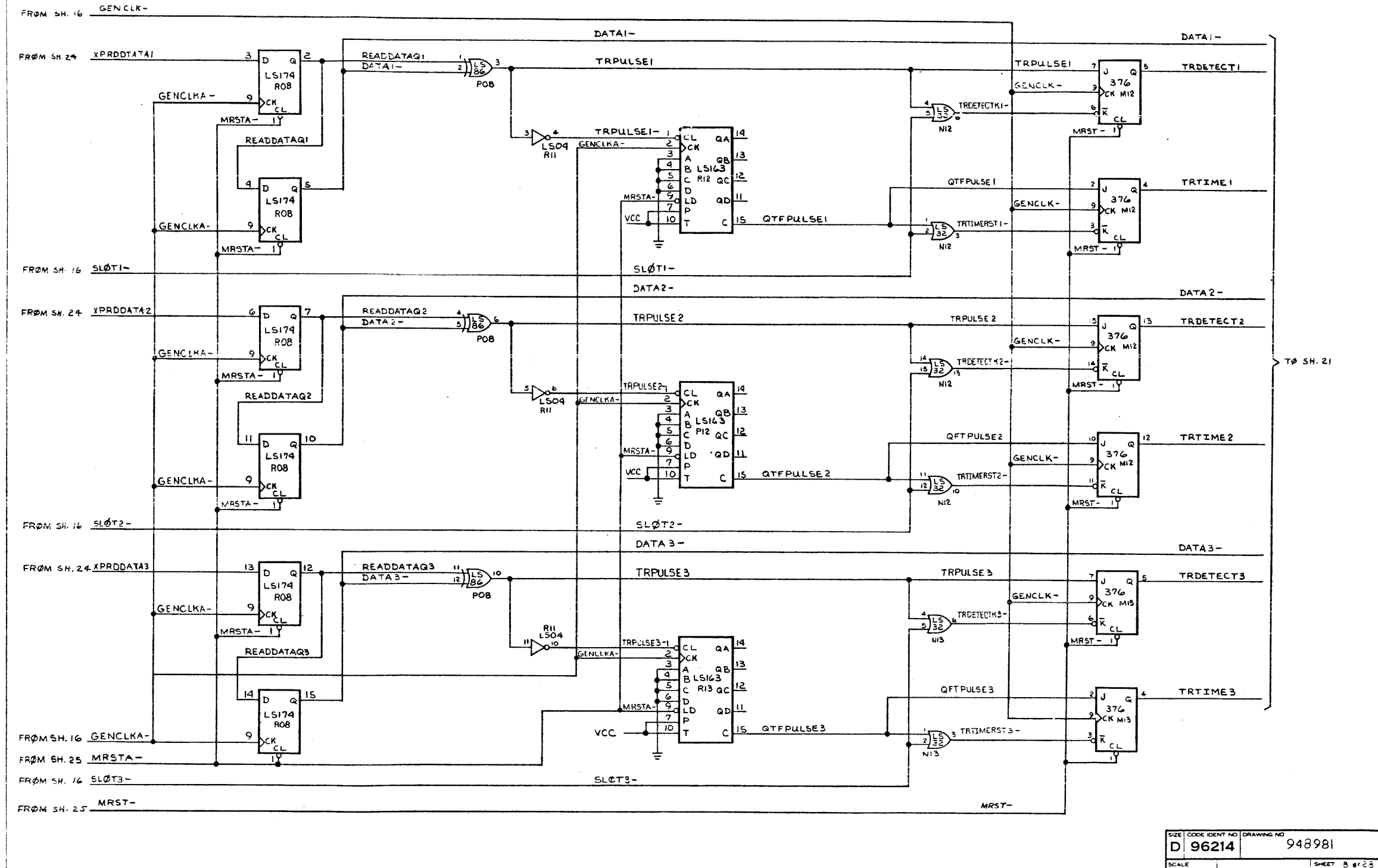


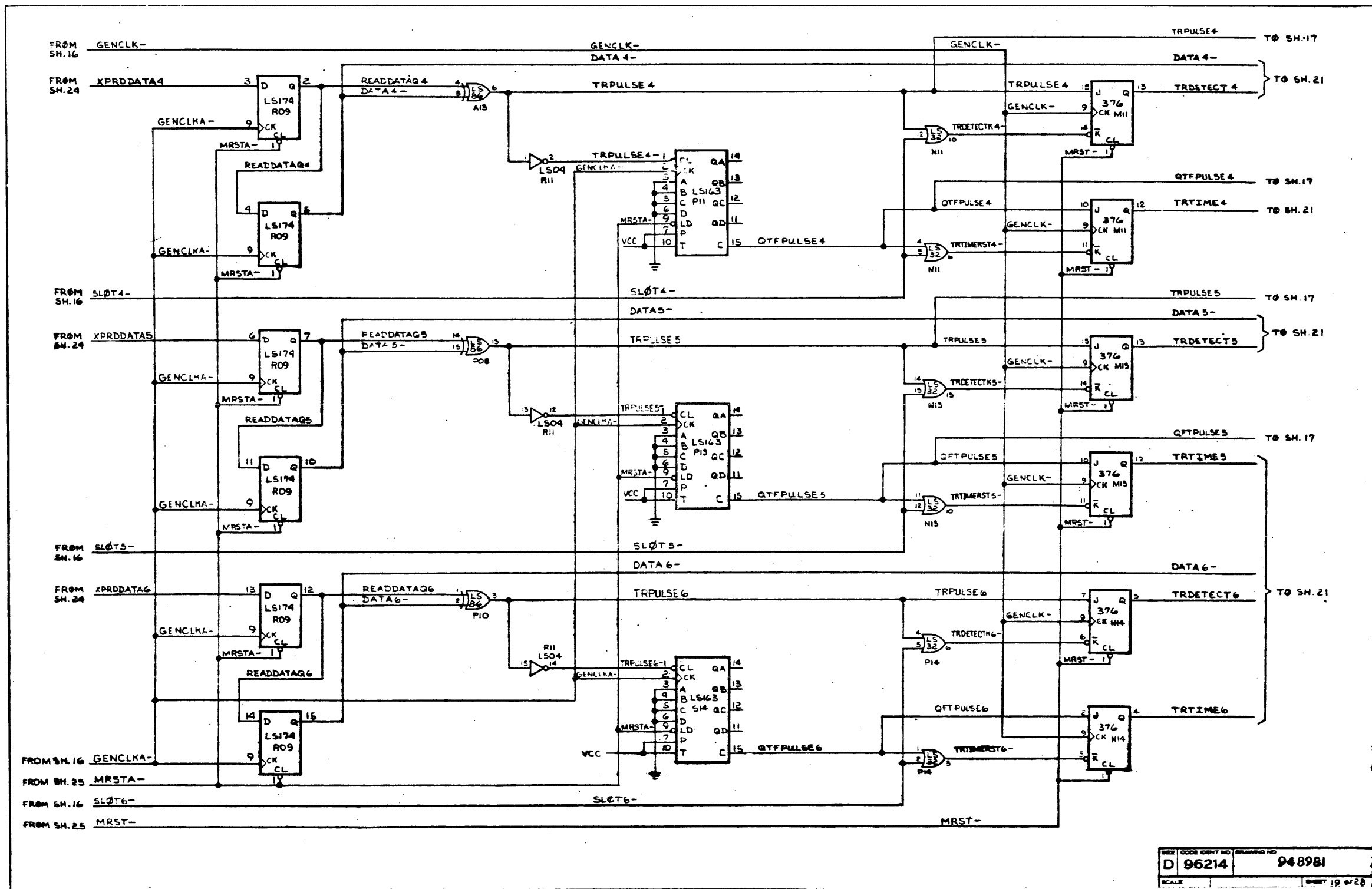




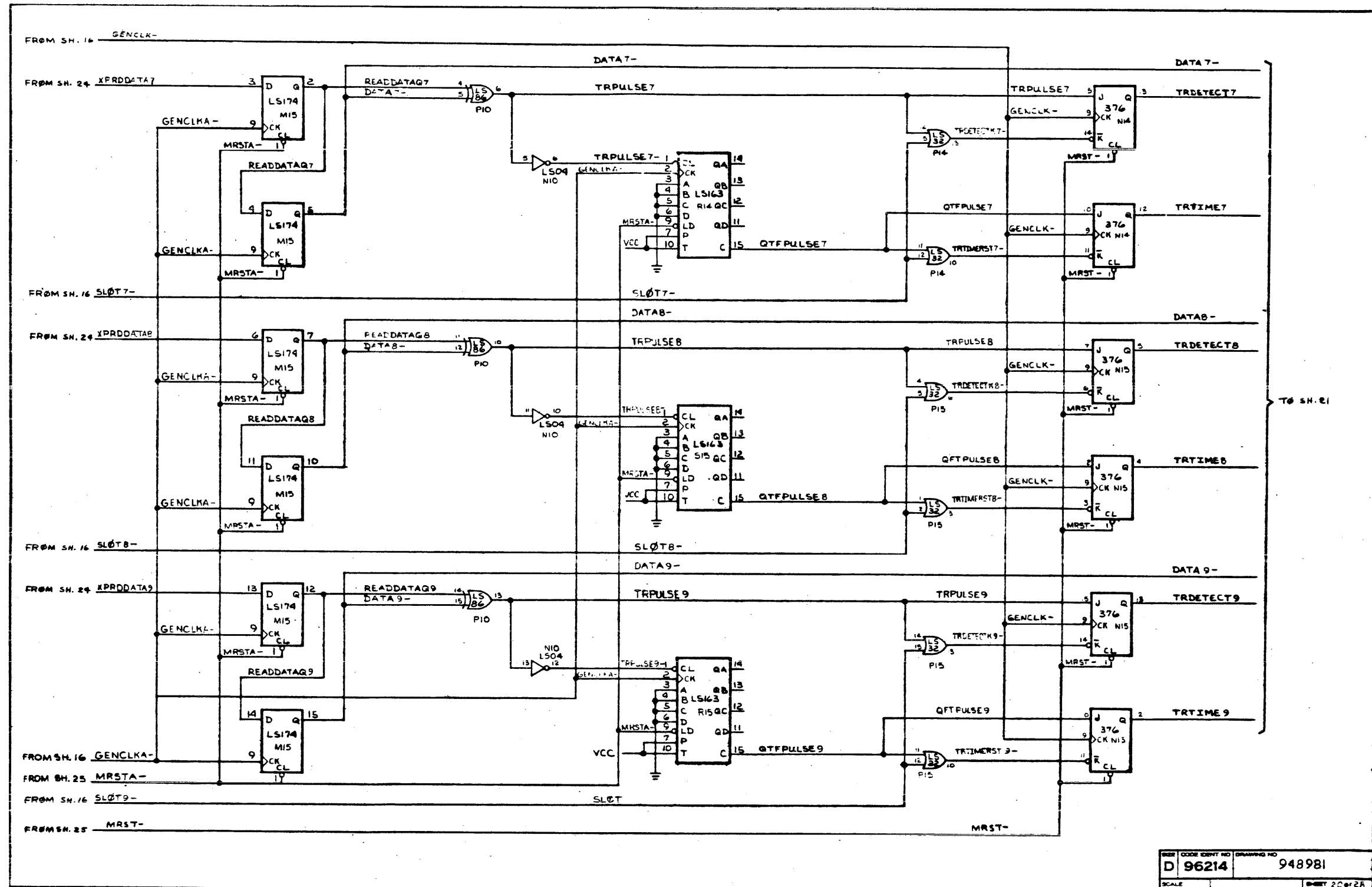
SIZE	CODE IDENT NO	DRAWING NO
D	96214	948981
SCALE	REV. C	SHEET 7 OF 25



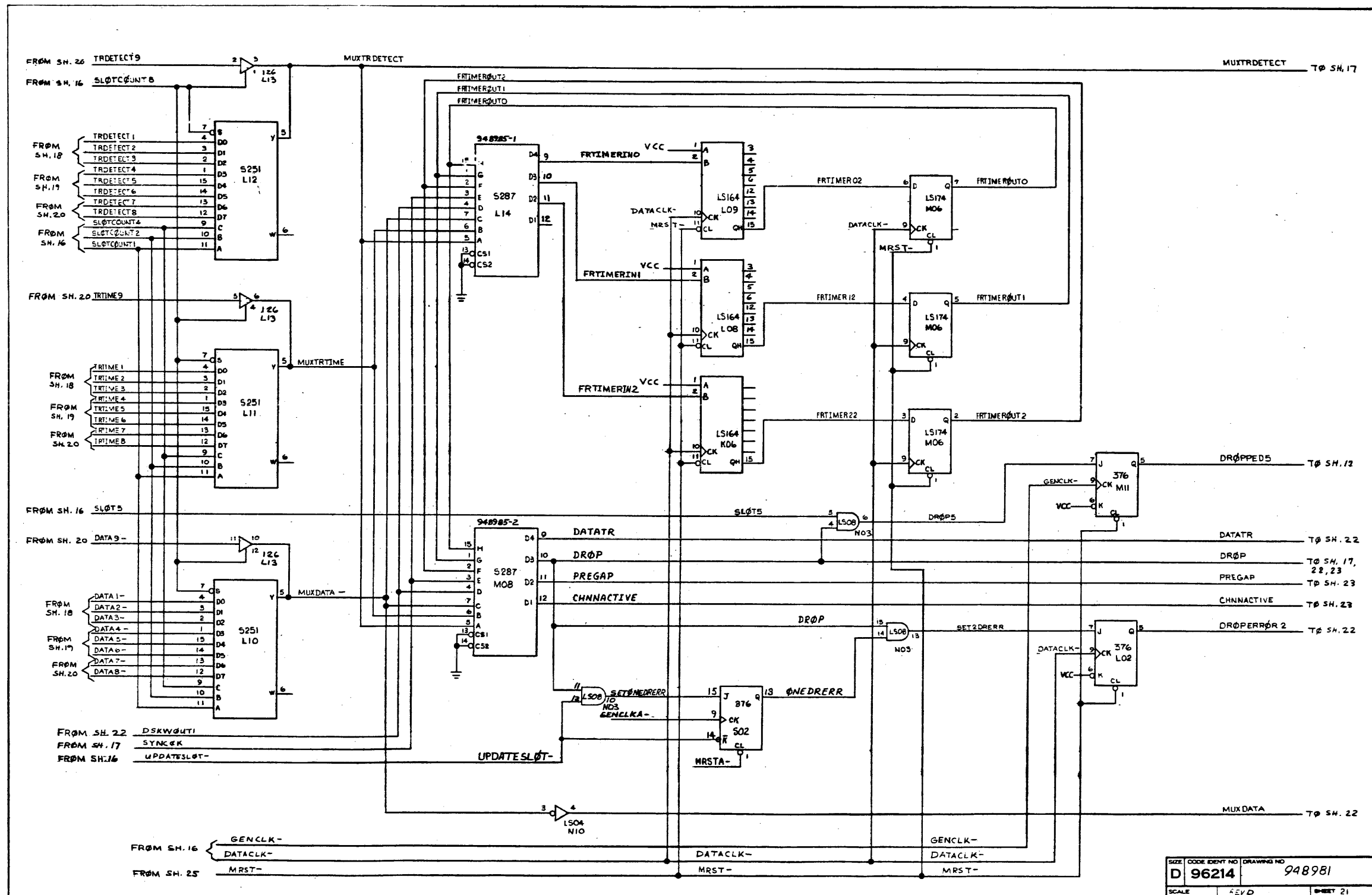




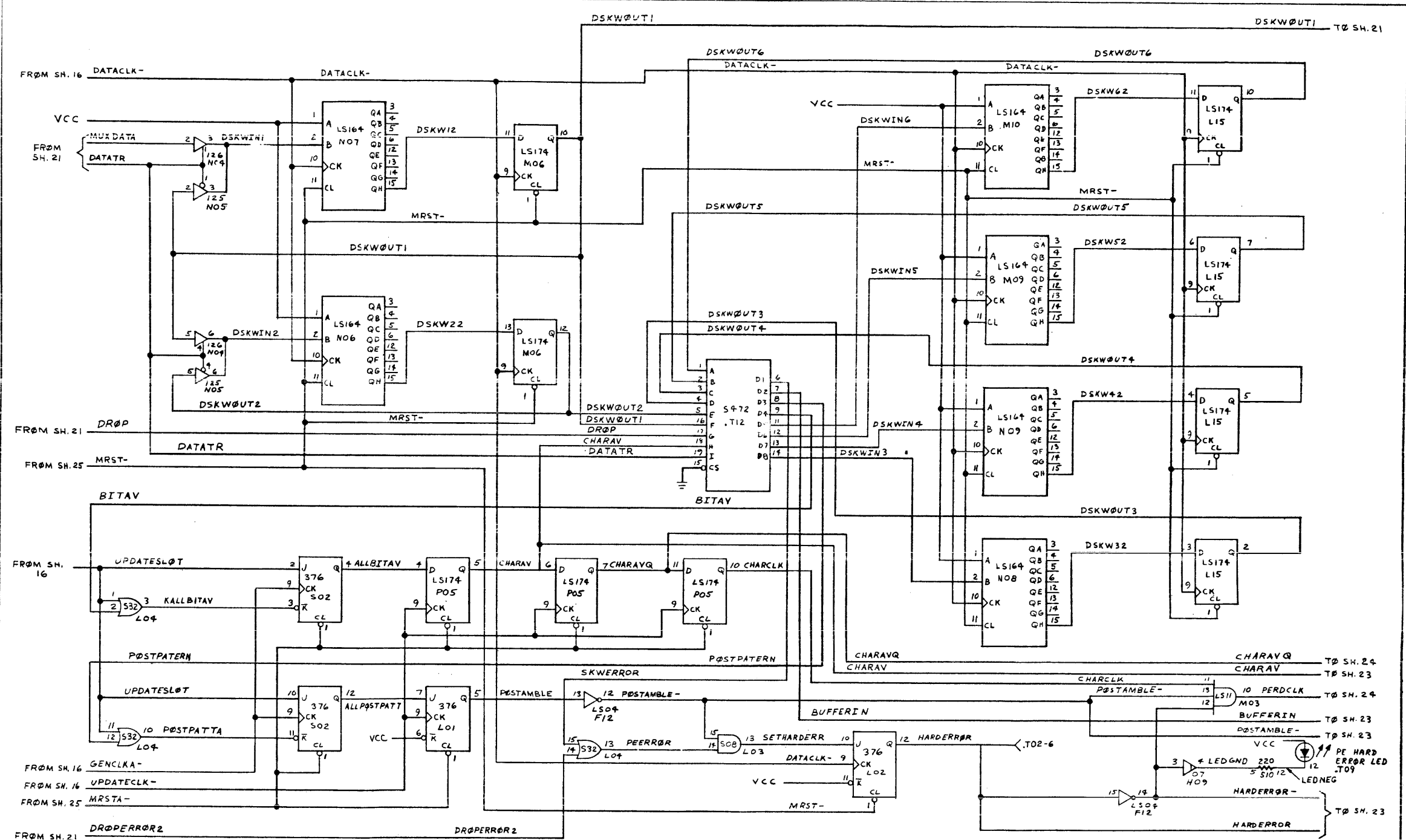
REV	CODE	EMPTY NO	DRAWING NO
D	96214		948981
SCALE			SHEET 19 of 28



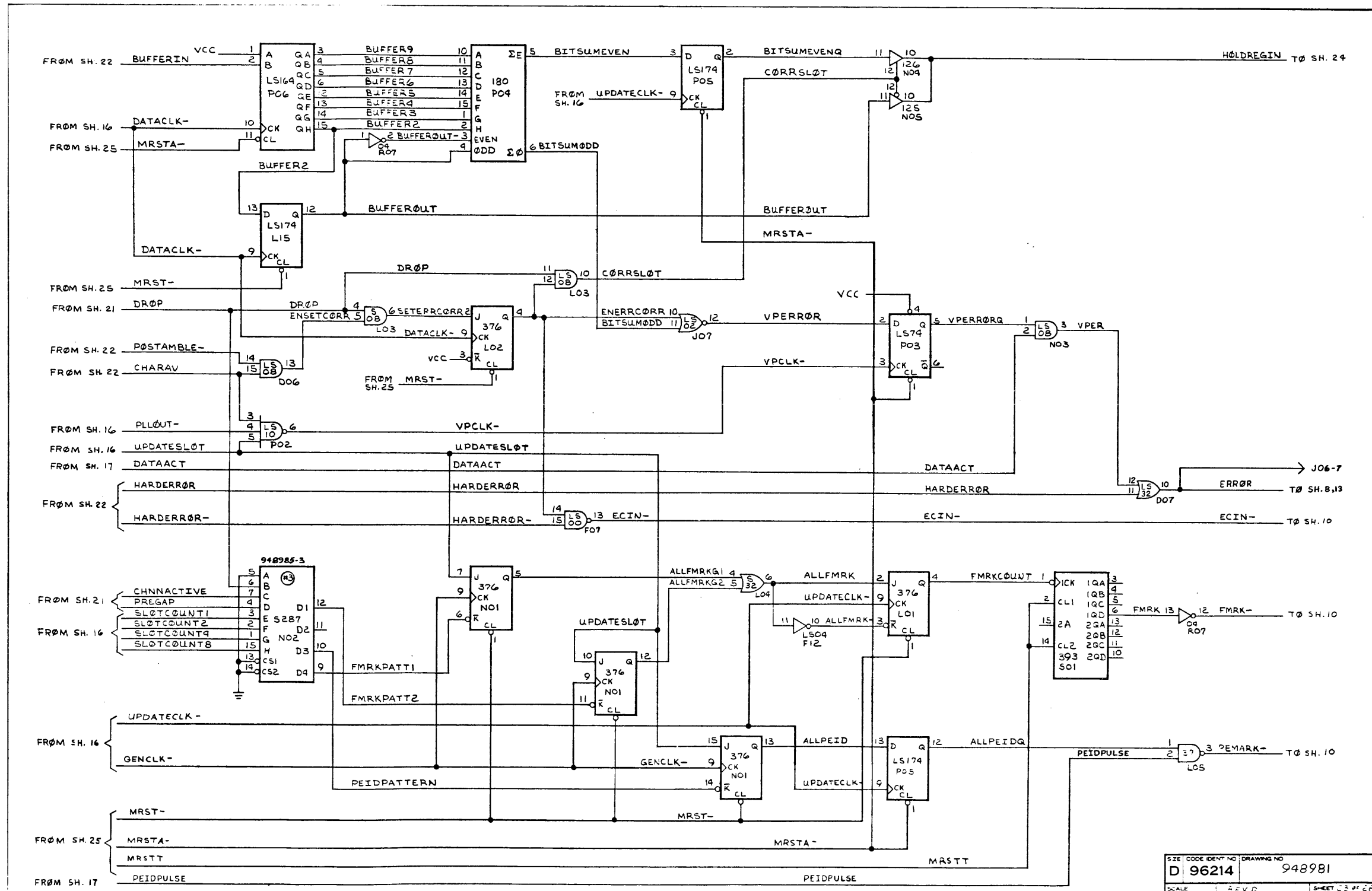
REV	CODE	IDENT NO	DRAWING NO
D	96214		948981
SCALE		SHEET 20 of 25	

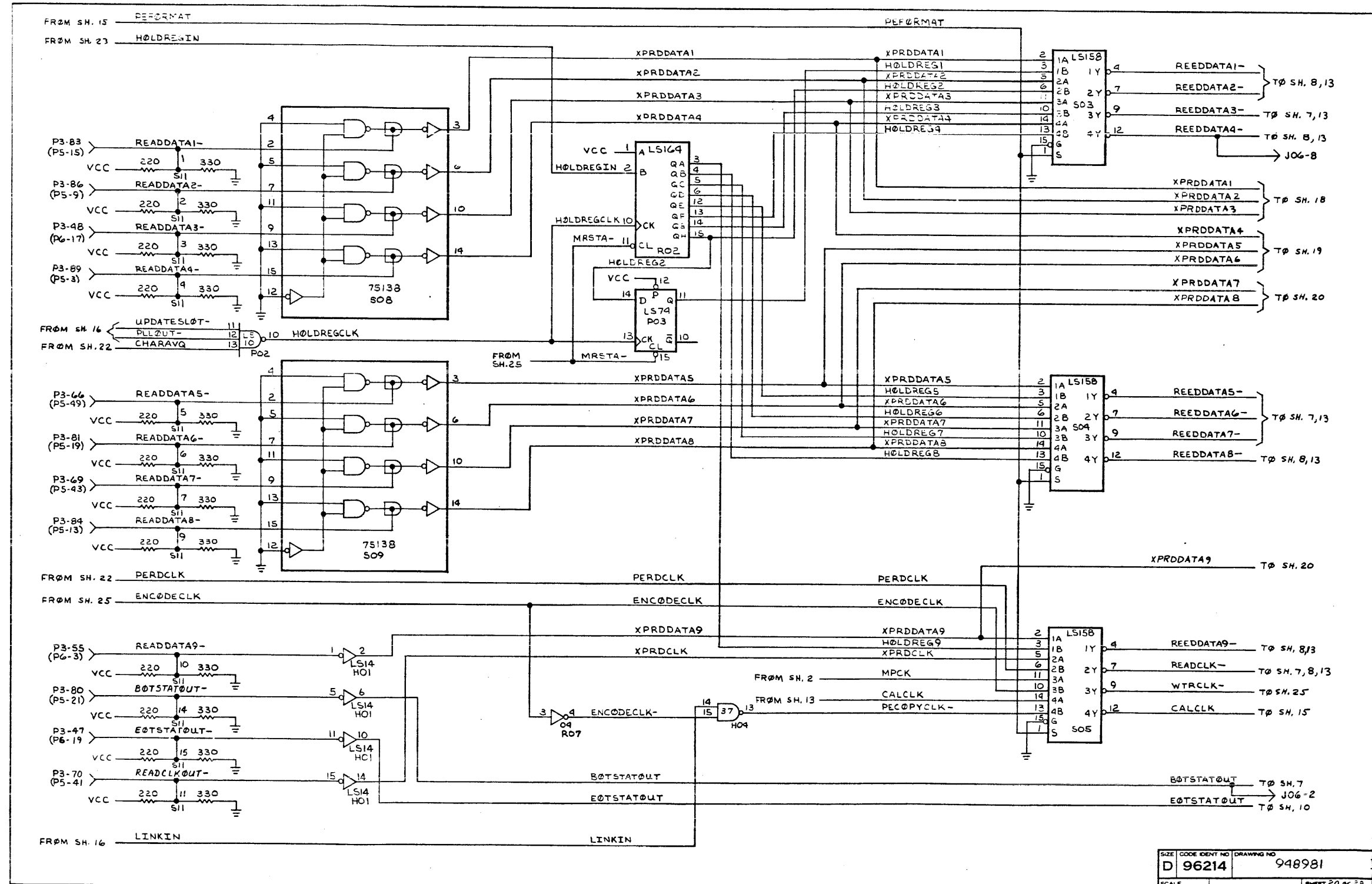


SIZE	CODE IDENT NO	DRAWING NO
D	96214	948981
SCALE	KEYD	SHEET 21

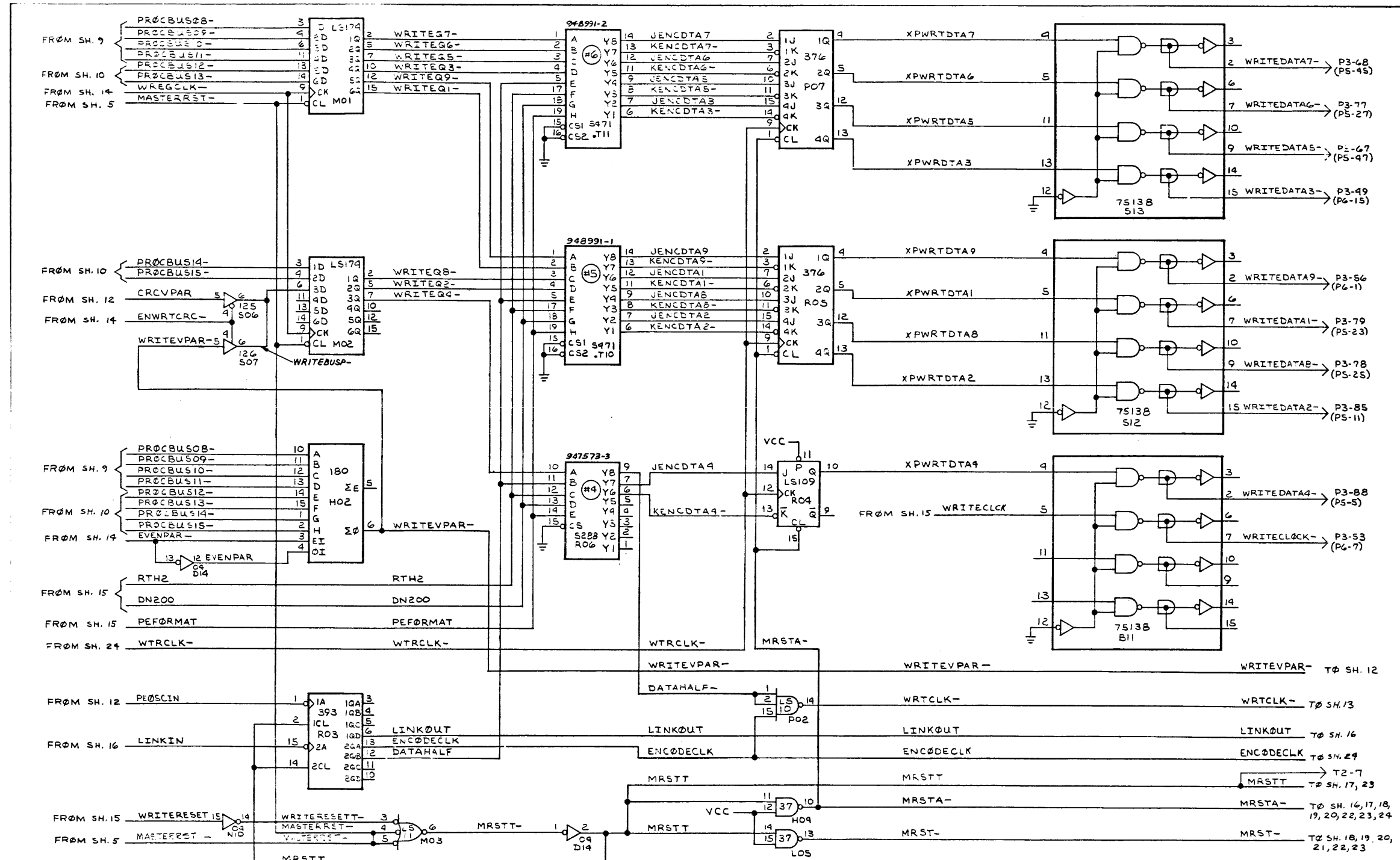


SIZE	CODE IDENT NO	DRAWING NO
D	96214	948981
SCALE	REV A	SHEET 22/28



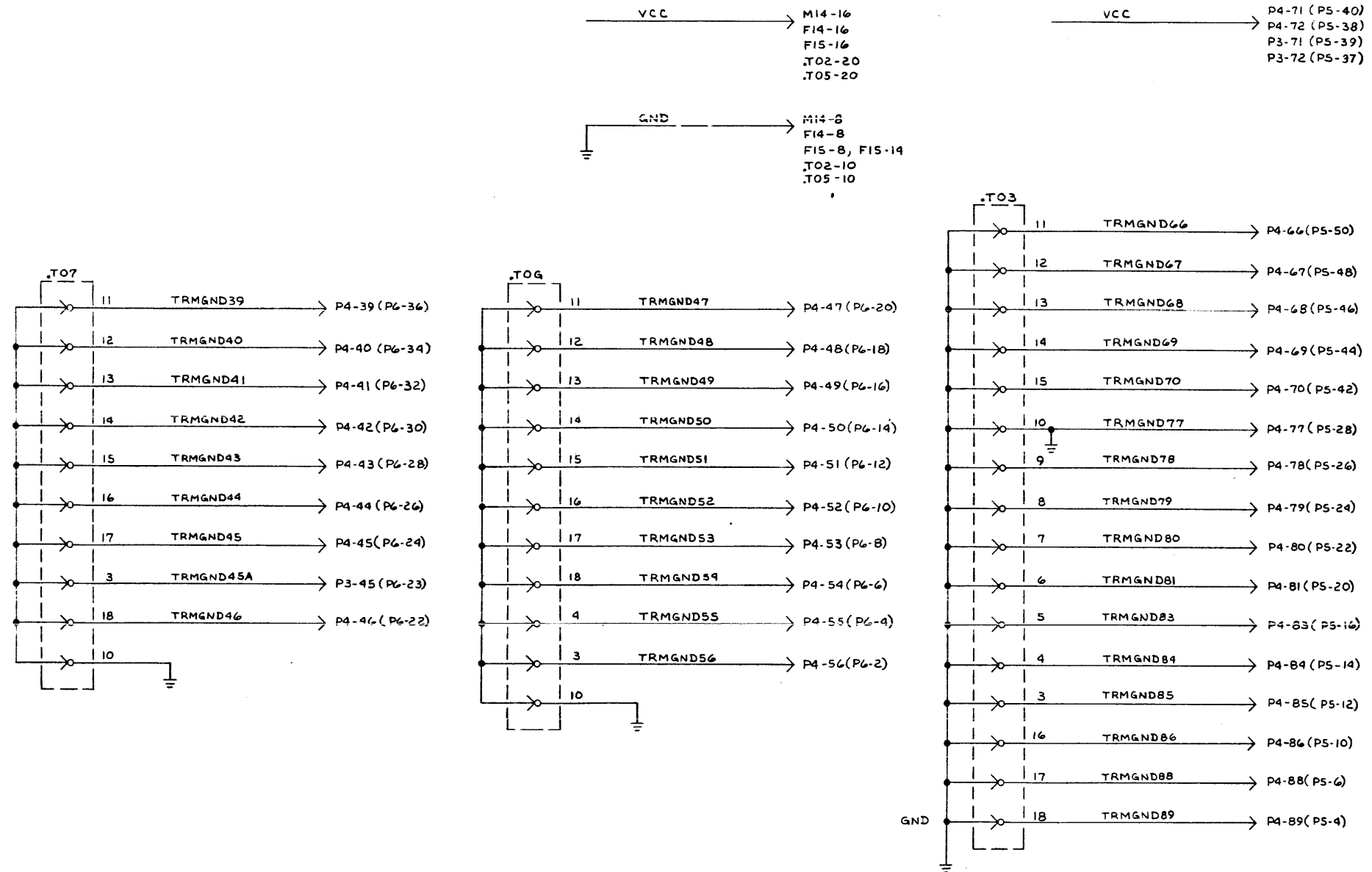


SIZE	CODE IDENT NO	DRAWING NO
D	96214	948981
SCALE	SHEET 20 OF 28	



SIZE	CODE IDENT NO	DRAWING NO
D	96214	948981
SCALE	1:1	SHEET 25 OF 25





SIZE	CODE IDENT NO	DRAWING NO
D	96214	948981
SCALE	SHEET 26 OF 28	

TEST CONNECTORS/JUMPER CONNECTOR

TEST F14		
PIN	SIGNAL	FROM SH.
1	PROCBUS00-	7
2	PROCBUS01-	7
3	PROCBUS02-	7
4	PROCBUS03-	7
5	PROCBUS04-	8
6	PROCBUS05-	8
7	PROCBUS06-	8
8	GND	26
9	PROCBUS07-	8
10	CLKRUN	2
11		
12	MPCK:1-	2
13	TRAP	5
14	MASTERRST-	5
15	RAMDISABLE5-	14
16	VCC	26

TEST F15		
PIN	SIGNAL	FROM SH.
1	PROCBUS08-	9
2	PROCBUS09-	9
3	PROCBUS10-	9
4	PROCBUS11-	9
5	PROCBUS12-	10
6	PROCBUS13-	10
7	PROCBUS14-	10
8	GND	26
9	PROCBUS15-	10
10	MCUADR8	6
11	MCUADR7	6
12	MCUADR1	6
13	MCUADR0	6
14	GND	26
15	OSCEENAB	12
16	VCC	26

TEST J06		
PIN	SIGNAL	FROM SH.
1	READYSTAT-	7
2	BOSTATOUT	24
3	DATATRU-	17
4	READSTATA-	7
5	EOTSTATQ	10
6	FPSTAQ-	5
7	ERROR	23
8	REEDDATA4-	24
9	VPERR	13
10	LRCPAR	13
11	CRCVPAR	12
12	CHTOUT	13
13	FRAME2	12
14	FRAME5	10
15	FRAME8	12
16	PEFORMAT	15

TEST .T02		
PIN	SIGNAL	FROM SH.
1	ENABGENCLK1	16
2	ENABGENCLK2-	16
3	CLKLATCHRST-	16
4	PLLOUT	16
5	SYNCOKQ	17
6	HARDERROR	22
7	MRSTT	25
8	FEEDBACKCLK	16
9		
10	GND	26
11		
12		
13	PLLREF	17
14	PLLDUMPKHK-	17
15	EXTSYNC	17
16	VARRATECLK	16
17		
18	DATAACT	17
19		
20	VCC	26

TEST .T05		
PIN	SIGNAL	FROM SH.
1		
2		
3	TAPEBUSYA-	10
4	READSTATA-	7
5	WRITECNTLA-	15
6	WRITECNTLA	15
7		
8	GND	26
9		
10	GND	26
11		
12		
13	LOWSPEEDSEL-	12
14		
15	WRITECNTL	15
16	WRITECNTL	15
17	READSTATA-	7
18	TAPEBUSY-	10
19		
20	VCC	26

TEST M14		
PIN	SIGNAL	FROM SH.
1	MCUADR0	6
2	MCUADR1	6
3	MCUADR2	6
4	MCUADR3	6
5	MCUADR4	6
6	MCUADR5	6
7	MCUADR6	6
8	GND	26
9	MCUADR7	6
10	MCUADR8	6
11	CLKRUN	2
12	MPCK:1-	2
13	CLKT2-	2
14	CLKLATCHRST-	16
15	ENABGENCLK2-	16
16	VCC	26

TABLE I  
PLL CAPACITOR VALUES

DRIVE SPEED	C2 CAP. VALUE
37.5 IPS	39 P
25.0 IPS	68 P
18.75 IPS	82 P
12.5 IPS	100 P

TABLE II  
XTAL FREQUENCY VALUES

DRIVE SPEED	XTAL
37.5	3.84 MHz
25.0	2.56 MHz
18.75	3.84 MHz
12.5	2.56 MHz

SIZE	CODE IDENT NO	DRAWING NO
D	96214	948981
SCALE	REV. C	SHEET 27 OF 28

TRANSPORT CONNECTORS

CONNECTOR P5

P3	SIGNAL NAME	P5	FROM SH.
90	RFWD-	1	15
89	READDATA4-	3	24
88	WRITEDATA4-	5	25
87	RGO-	7	15
86	READDATA2-	9	24
85	WRITEDATA2-	11	25
84	READDATA8-	13	24
83	READDATA1-	15	24
82	RUNL-	17	15
81	READDATA6-	19	24
80	BOTSTATOUT-	21	24
79	WRITEDATA1-	23	25
78	WRITEDATA8-	25	25
77	WRITEDATA6-	27	25
76	SELECT1-	29	15
75	REWINDSTAT2-	31	9
74	SELECT3-	33	15
73	SELECT4-	35	15
72	VCC	37	26
71	VCC	39	26
70	READCLKOUT-	41	24
69	READDATA7-	43	24
68	WRITEDATA7-	45	25
67	WRITEDATA5-	47	25
66	READDATA5-	49	24

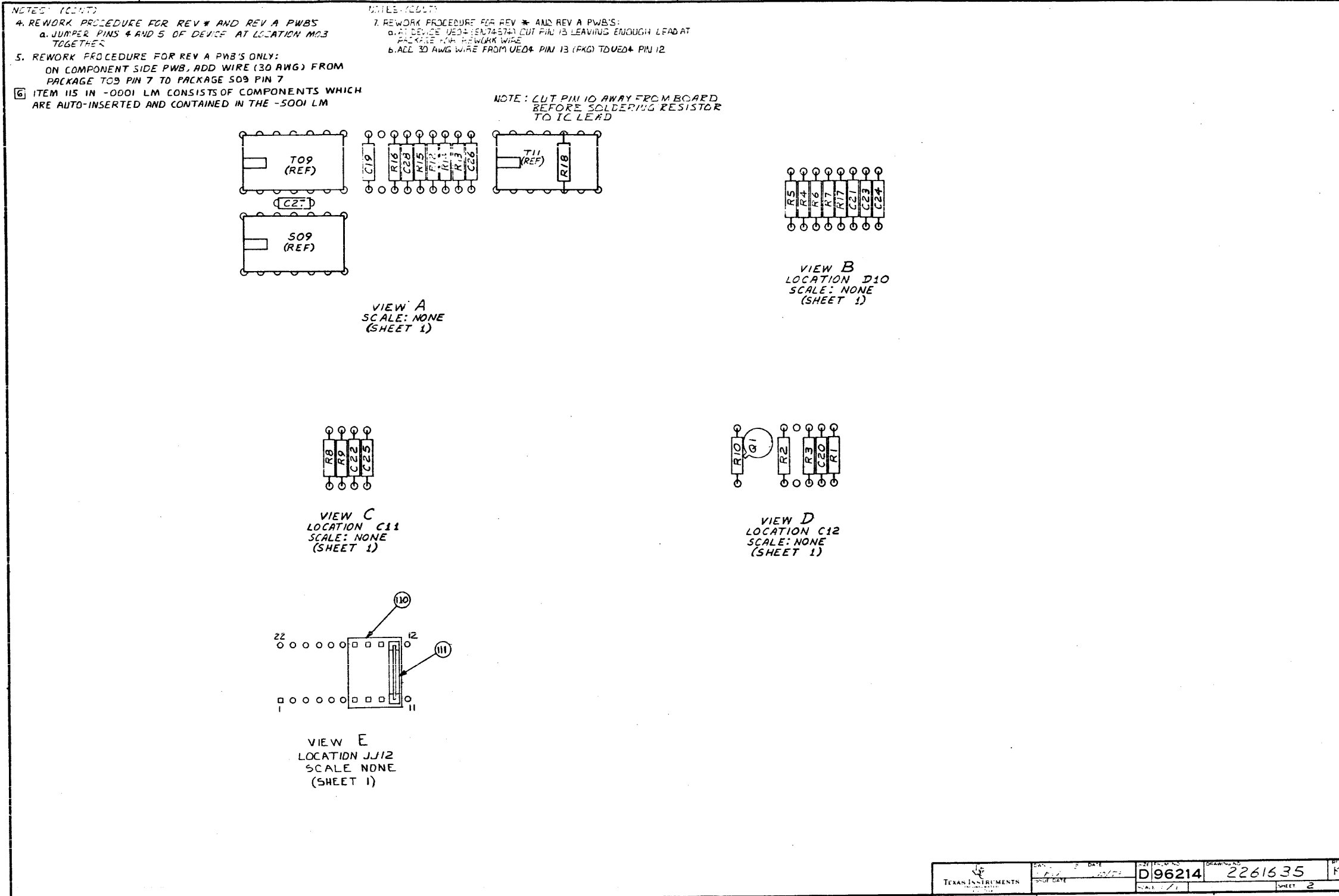
P4	SIGNAL NAME	P5	FROM SH.
90	RREW-	2	15
89	GND	4	26
88	GND	6	26
87	READYSTAT-	8	7
86	GND	10	26
85	GND	12	26
84	GND	14	26
83	GND	16	26
82	READSTAT-	18	7
81	GND	20	26
80	GND	22	26
79	GND	24	26
78	GND	26	26
77	GND	28	26
76	REWINDSTAT1-	30	9
75	SELECT2-	32	15
74	REWINDSTAT3-	34	9
73	REWINDSTAT4-	36	9
72	VCC	38	26
71	VCC	40	26
70	GND	42	26
69	GND	44	26
68	GND	46	26
67	GND	48	26
66	GND	50	26

CONNECTOR P6

P3	SIGNAL NAME	P6	FROM SH.
56	WRITEDATA9-	1	25
55	READDATA9-	3	24
54	SETWRITE-	5	15
53	WRITECLOCK-	7	25
52	SETREAD-	9	15
51	WRITERESET-	11	15
50	FPSTA-	13	5
49	WRITEDATA3-	15	25
48	READDATA3-	17	24
47	EOTSTATOUT-	19	24
46	GND	21	26
45	GND	23	26
44	GND	25	26
43	GND	27	26
42	GND	29	26
41	GND	31	26
40	GND	33	26
39	GND	35	26
38	TAPEBUSY-	37	10
37	WRITECNL	39	15

P4	SIGNAL NAME	P6	FROM SH.
56	GND	2	26
55	GND	4	26
54	GND	6	26
53	GND	8	26
52	GND	10	26
51	GND	12	26
50	GND	14	26
49	GND	16	26
48	GND	18	26
47	GND	20	26
46	GND	22	26
45	GND	24	26
44	GND	26	26
43	GND	28	26
42	GND	30	26
41	GND	32	26
40	GND	34	26
39	GND	36	26
38	GND	38	26
37	GND	40	26





 TEXAS INSTRUMENTS DALLAS, TEXAS	DATE: _____ DRAWN BY: _____ CHECKED BY: _____	PART NUMBER: <b>D96214</b> DRAWING NUMBER: <b>2261635</b>	SHEET: <b>2</b> OF <b>2</b>
	SCALE: _____ TITLE: _____	PROJECT: _____ REV: _____	DESIGNED BY: _____ DATE: _____

TEXAS INSTRUMENTS INCORPORATED			LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 2261635-0001		REV L
DATE 02/21/80									
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0002	REF	EA		2261637-9901	LOGIC, 979 MAG TAPE, 800/1600 BPI, 1/F (PWB)				
0003	REF	EA		0948983-9901	UNIT TEST PRDC. 979A TMIC 800/1600 BPI				
0004	00001-000	EA		0972137-0010	CONNECTOR, P.C. HEADER 50 CONTACTS	BE1 - 65483-020			
0004A					P5				
0023	00001-000	EA		0972900-7109	NETWORK SN74LS109N	TI -SN74LS109N			
0023A					UA15				
0030	00001-000	EA		0222222-7148	NETWORK SN74148N				
0030A					UE14				
0038	00001-000	EA		0996136-0001	IC, SN74LS257N, DATA SELECTORS/MULTIPLEXER	TI -SN74LS257N			
0038A					UB01				
0039	00001-000	EA		0972787-0003	NETWORK SN74LS367N				
0039A					UA01				
0042	00008-000	EA		0974859-0001	NETWORK, BI-POLAR 2BIT PROCESSOR -3002				
0042A					UEJ01 UEJ02 UEJ03 UEJ04				
0042B					UEK01 UEK02 UEK03 UEK04				
0049	00001-000	EA		0949005-0031	PROM, TMIC MICROPROGRAM NO.10				
0049A					UK12				
0050	00001-000	EA		0949005-0032	PROM, TMIC MICROPROGRAM NO.11				
0050A					UK13				
0051	00001-000	EA		0949005-0033	PROM, TMIC MICROPROGRAM NO.12				
DRAFTSMAN				DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE
				2-25-80			979 MAG TAPE, 800/1600 BPI, 1/F		
APPROV. MFG.				DATE	APPROV. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.
									7506
									PART NUMBER LM 2261635-0001
									REV L

TEXAS INSTRUMENTS INCORPORATED			LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM 2261635-0001		REV L
DATE 02/21/80									
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0051A					UK14				
0052	00001-000	EA		0949005-0034	PROM, TMIC MICROPROGRAM NO.13				
0052A					UK15				
0053	00001-000	EA		0949005-0035	PROM, TMIC MICROPROGRAM NO.14				
0053A					UJ15				
0054	00001-000	EA		0947573-0001	PROM, 32X8, BOOLEAN, MIC NO.1				
0054A					UE12				
0055	00001-000	EA		0947573-0002	PROM, 32X8, BOOLEAN, MIC NO.2				
0055A					UE10				
0057	00003-000	EA		0896102-0001	IC, SN74S482N MICRO-ADDRESS GENERATOR	TI -SN74S482N			
0057A					UJ12 UJ13 UJ14				
0058	00001-000	EA		0972547-0008	SWITCH, SLIDE-SPST, DIP 8 SWITCHES				
0058A					UK08				
0059	00003-000	EA		0972975-0033	RES FIX COMP 220 OHMS 5 % 1/8 WATT	QPL - RC05G221J5			
0059A					R1 R2 R3				
0060	00001-000	EA		0972965-0008	CAP FIX CERAMIC .0047 MF 10% 200 V	QPL - LK068X472K			
0060A					C20				
0061	00001-000	EA		0972927-0044	CAP FIX MICA 300V 510 PF 5 %	QPL - LM05F511JQL			
0061A					C22				
0062	00002-000	EA		0972927-0039	CAP FIX MICA 500V 330 PF 5 %	QPL - CM05E331JGO			
DRAFTSMAN				DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE
							979 MAG TAPE, 800/1600 BPI, 1/F		
APPROV. MFG.				DATE	APPROV. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.
									PART NUMBER LM 2261635-0001
									REV L

TEXAS INSTRUMENTS INCORPORATED			LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM 2261635-0001		REV L
DATE 02/21/80									
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0062A					C23 C24				
0063	00003-000	EA		0972975-0037	RES FIX COMP 330 OHMS 5 % 1/8 WATT	QPL - RC05G331J5			
0063A					R6 R8 R9				
0064	00001-000	EA		0972948-0002	TRANSISTOR, 2N2222A NPN GEN PURP SW TU-18	TI - 2N2222A			
0064A					Q1				
0065	00019-000	EA		0972763-0021	CAP., FIXED, AXIAL LEAD, .047 UF, +80%, -20%				
0065A					C1 THRU C19				
0066	00001-000	EA		0944954-0001	INSULATOR, PWB, 14IN				
0067	00001-000	EA		0946708-0001	INSULATOR, STIFFENER, PWB, 11 INCH				
0069	00001-000	EA		0946707-0001	STIFFENER, PWB, 11 INCH				
0070	00001-000	EA		0945239-0001	BRACKET-STIFFENER, PWB, 14IN				
0071	00002-000	EA		0533844-0001	EJECTOR, NYLON, NON-LOCKING, PWB				
0072	00006-000	EA		0972684-0002	SCREW, TMD FRNG, HEX MSHR HD, 2-56X1/4 LG				
0073	00001-000	EA		0972975-0060	RES FIX COMP 3.0 K OHMS 5% 1/8 WATT	QPL - RC05G302J5			
0073A					R10				
0074	00001-000	EA		0972929-0400	CAP, FIXED CERAMIC, .0015UF 10% 100V				
0074A					C25				
0077	00001-000	EA		0972137-0009	CONNECTOR P.C. HEADER	BE1 - 65483-019			
0077A					P6				
0078	00010-000	EA		2210188-0003	SOCKET, LOW PROFILE, DIP, 16 CONT	003612-D1L820P-108			
DRAFTSMAN				DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE
							979 MAG TAPE, 800/1600 BPI, 1/F		
APPROV. MFG.				DATE	APPROV. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.
									PART NUMBER LM 2261635-0001
									REV L

TEXAS INSTRUMENTS INCORPORATED			LIST OF MATERIAL		PAGE 4 of		PART NUMBER LM 2261635-0001		REV L
DATE 02/21/80									
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0078A					XUE10 XUE12 XUE14 XUF15				
0078B					XUT05 XUL14 XUM08 XUM14				
0078C					XUN02 XUR06				
0079	00008-000	EA		2210188-0005	SOCKET, LOW PROFILE, DIP, 20 PINS	003612-D1L820P-108			
0079A					XUJ15 XUJ13 XUJ14 XUJ15				
0079B					XUK12 XUK13 XUK14 XUK15				
0080	00002-000	EA		0399999-9702	RESISTOR SELECTED AT UNIT TEST				
0080A					R7 R12				
0085	00001-000	EA		0948985-0001	PROM, BOOLEAN, TMIC, 512, NO.1				
0085A					UL14				
0086	00001-000	EA		0948985-0002	PROM, BOOLEAN, TMIC, 512, NO.2				
0086A					UM08				
0087	00001-000	EA		0948985-0003	PROM, BOOLEAN, TMIC, 512, NO.3				
0087A					UN02				
0089	00001-000	EA		0948991-0001	PROM, BOOLEAN, TMIC, 2M, NO. 1				
0089A					UJJ13				
0090	00001-000	EA		0948987-0001	PROM, BOOLEAN, TMIC 4K				
0090A					UJJ15				
0093	00001-000	EA		0972537-0001	DIODE, LED 550-0103 50 MA 3 V	DIA - 550-0103			
0093A					LM1				
DRAFTSMAN				DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE
							979 MAG TAPE, 800/1600 BPI, 1/F		
APPROV. MFG.				DATE	APPROV. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.
									PART NUMBER LM 2261635-0001
									REV L

TEXAS INSTRUMENTS INCORPORATED		DATE 02/21/80		LIST OF MATERIAL		PAGE 5 of		PART NUMBER LM 2261635-0001		REV L		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0095	00001.000	EA		0948991-0002	PRDM, MODLAN, THIC 2K, NG-2							
0095A					UJJ14							
0096	00001.000	EA		0947573-0003	PRDM, 32X8, BOOLEAN, MIC NO.3							
0096A					UR06							
0100	00001.000	EA		0537994-0001	NETWORK MC4024P	NUT -MC4024P						
0100A					UT09							
0101	00001.000	EA		0537995-0001	NETWORK MC4044P	NUT -MC4044P						
0101A					UE11							
0102	00001.000	EA		0972929-0409	CAP FIX CERAMIC 4700 PF 10 X 100 V	QPL -M39014/01-1409						
0102A					C26							
0103	00001.000	EA		0972929-0372	CAP, FIX CERAMIC 39.0 PF 10X 200V	QPL - 39014						
0103A					C27							
0104	00001.000	EA		0972965-0014	CAP, FIX CERAMIC .015 MF 10X 100V	QPL - CK068X153K						
0104A					C28							
0105	00002.000	EA		0972975-0057	RES FIX COMP 2.2 K OHMS 5 X 1/8 WATT	QPL - RC05G222JS						
0105A					R13 R14							
0106	00001.000	EA		0972975-0069	RESISTOR, FIXED 6.8K 1/8 WATT 5%	QPL RC-RC05G482JS						
0106A					R15							
0107	00002.000	EA		0972975-0049	RES FIX COMP 1.0 K OHMS 5X 1/8 WATT	QPL - RC05G102JS						
0107A					R16 R17							
DRAFTSMAN		DATE	CRD. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE 979 MAG TAPE, 800/1600 BPI, 1/F					
APPD. MFG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO. LM 2261635-0001 L					

TEXAS INSTRUMENTS INCORPORATED		DATE 02/21/80		LIST OF MATERIAL		PAGE 6 of		PART NUMBER LM 2261635-0001		REV L		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0108	00001.000	EA		0996059-0008	OSCILLATOR, HF 3.840MHZ .05% XTAL CONT	001537-K-1114 A						
0108A					UB14							
0110	00001.000	EA		2210108-0001	SOCKET, 40M PROFILE, DIP, 3 CUNT, 8 PINS	003612-DIL08P-108						
0110A					XUJJ12							
0111	00001.000	EA		0972713-0001	PLUG, JUMPER, I.C., 0.300 INCH							
0112	00001.000	EA		0972975-0077	RES, FIXED, 1/8W 5% 15K OHM							
0112A					R18							
0114	00001.000	EA		0972927-0063	CAP FIX MICA 300V 470 PF 5%	QPL -CM05F471JGC						
0114A					C21							
0115	00001.000	EA		2261635-5001	AUTO-INSERTED PARTS LIST FOR 2261635-1							
0116	00002.000	EA		0972975-0043	RES FIX COMP 500 OHMS 5 X 1/8 WATT	QPL - RC05G501JS						
0116A					R4 R5							
DRAFTSMAN		DATE	CRD. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE 979 MAG TAPE, 800/1600 BPI, 1/F					
APPD. MFG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO. LM 2261635-0001 L					

TEXAS INSTRUMENTS INCORPORATED		DATE 02/21/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 2261635-0002		REV L		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0199	00001.000	EA		2261635-0001	979 MAG TAPE, 800/1600 BPI, 1/F							
0200	REF	EA		2261638-9901	MODIFICATION PROCEDURE, PENTC TO OEM							
0201	00001.000	EA		0772565-0004	ADAPTER, PLUG, 16 PINS							
0202	00000.500	FT		0411400-0024	WIRE, 24AWG ELECTRO TIN PLATED COPPER							
0203	00001.000	EA		0772565-0006	ADAPTER, PLUG, 16 PINS -885LGX.450ND	091506-616-2P1						
DRAFTSMAN		DATE	CRD. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE OEM MAG TAPE, MRZ1 37.5 IPS, 1/F					
APPD. MFG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO. LM 2261635-0002 L					

TEXAS INSTRUMENTS INCORPORATED		DATE 02/21/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 2261635-0003		REV L		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0199	00001.000	EA		2261635-0001	979 MAG TAPE, 800/1600 BPI, 1/F							
0200	REF	EA		2261638-9901	MODIFICATION PROCEDURE, PENTC TO OEM							
0214	00002.000	EA		0972713-0001	PLUG, JUMPER, I.C., 0.300 INCH							
DRAFTSMAN		DATE	CRD. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE OEM MAG TAPE, PE 37.5 IPS, 1/F					
APPD. MFG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO. LM 2261635-0003 L					

TEXAS INSTRUMENTS INCORPORATED		DATE 02/21/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 2261635-0004		REV L		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0199	00001.000	EA		2261635-0001	979 MAG TAPE, 800/1600 BPI, 1/F							
0200	REF	EA		2261638-9901	MODIFICATION PROCEDURE, PENCIL TO UEM							
0214	00003.000	EA		0972713-0001	PLUG, JUMPER, I.C., 0.300 INCH							
DRAFTSMAN		DATE	CKD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE GEN IMTC DUAL DENSITY 37.5 IPS, 1/F					
APPD. MFG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO. LM 2261635-0004					

TEXAS INSTRUMENTS INCORPORATED		DATE 02/21/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 2261635-0005		REV L		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0199	00001.000	EA		2261635-0001	979 MAG TAPE, 800/1600 BPI, 1/F							
0200	REF	EA		2261638-9901	MODIFICATION PROCEDURE, PENCIL TO UEM							
0201	00001.000	EA		0772565-0004	ADAPTER, PLUG, 16 PINS							
0202	00000.500	FT		0411400-0024	WIRE, 24AWG ELECTRU TIN PLATED COPPER							
0203	00001.000	EA		0772565-0006	ADAPTER, PLUG, 16 PINS .885LX.450WD	091506-610-2P1						
0210	00001.000	EA		0972929-0378	CAPACITOR, .02PF 10% 200VDC FX CER DIELECT	-QPL39014						
0213	00001.000	EA		0996059-0015	OSCILLATOR, RF 1.920MHZ .01% XTAL CONT	001537-K-1100 A						
DRAFTSMAN		DATE	CKD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE GEN MAG TAPE NRZ1 18.75 IPS, 1/F					
APPD. MFG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO. LM 2261635-0005					

TEXAS INSTRUMENTS INCORPORATED		DATE 02/21/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 2261635-0006		REV L		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0199	00001.000	EA		2261635-0001	979 MAG TAPE, 800/1600 BPI, 1/F							
0200	REF	EA		2261638-9901	MODIFICATION PROCEDURE, PENCIL TO UEM							
0210	00001.000	EA		0972929-0378	CAPACITOR, .02PF 10% 200VDC FX CER DIELECT	-QPL39014						
0213	00001.000	EA		0996059-0015	OSCILLATOR, RF 1.920MHZ .01% XTAL CONT	001537-K-1100 A						
0214	00002.000	EA		0972713-0001	PLUG, JUMPER, I.C., 0.300 INCH							
DRAFTSMAN		DATE	CKD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE GEN MAG TAPE, PE 18.75 IPS, 1/F					
APPD. MFG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO. LM 2261635-0006					

TEXAS INSTRUMENTS INCORPORATED		DATE 02/21/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 2261635-0007		REV L		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0199	00001.000	EA		2261635-0001	979 MAG TAPE, 800/1600 BPI, 1/F							
0200	REF	EA		2261638-9901	MODIFICATION PROCEDURE, PENCIL TO UEM							
0210	00001.000	EA		0972929-0378	CAPACITOR, .02PF 10% 200VDC FX CER DIELECT	-QPL39014						
0213	00001.000	EA		0996059-0015	OSCILLATOR, RF 1.920MHZ .01% XTAL CONT	001537-K-1100 A						
0214	00003.000	EA		0972713-0001	PLUG, JUMPER, I.C., 0.300 INCH							
DRAFTSMAN		DATE	CKD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE GEN IMTC DUAL DENSITY 18.75 IPS, 1/F					
APPD. MFG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO. LM 2261635-0007					



TEXAS INSTRUMENTS INCORPORATED		DATE 02/21/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 2261635-0008		REV L		
DRAWING NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0199	00001.000	EA		2261635-0001	979 MAG TAPE, 800/1600 BPI, 1/F							
0200	REF	EA		2261638-9901	MODIFICATION PROCEDURE, PENTC TO UEM							
0201	00001.000	EA		0772565-0004	ADAPTER, PLUG, 16 PINS							
0202	00000.500	FT		0411400-0024	WIRE, 24AWG ELECTRO TIN PLATED COPPER							
0203	00001.000	EA		0772565-0006	ADAPTER, PLUG, 16 PINS .885LGA-45UMD	091506-016-2P1						
0204	00002.000	EA		0972975-0033	RES FIX COMP 220 OHMS 5 X 1/8 WATT	QPL - RC05G221JS						
0205	00001.000	EA		0996303-0001	TRANSISTOR, 2N5449, NPN SILICON	001295-2N5449						
0206	00000.500	FT		0410499-0005	SLEEVE, THERLON #24 NATURAL	QPL - MIL-I-22129						
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE KENN D D W/O ADAPT, 37.5 IPS, 1/F					
APPRO. MFG		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 2261635-0008		REV L		

TEXAS INSTRUMENTS INCORPORATED		DATE 02/21/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 2261635-0009		REV L		
DRAWING NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0199	00001.000	EA		2261635-0001	979 MAG TAPE, 800/1600 BPI, 1/F							
0200	REF	EA		2261638-9901	MODIFICATION PROCEDURE, PENTC TO UEM							
0201	00001.000	EA		0772565-0004	ADAPTER, PLUG, 16 PINS							
0202	00000.500	FT		0411400-0024	WIRE, 24AWG ELECTRO TIN PLATED COPPER							
0203	00001.000	EA		0772565-0006	ADAPTER, PLUG, 16 PINS .885LGA-45UMD	091506-016-2P1						
0204	00002.000	EA		0972975-0033	RES FIX COMP 220 OHMS 5 X 1/8 WATT	QPL - RC05G221JS						
0205	00001.000	EA		0996303-0001	TRANSISTOR, 2N5449, NPN SILICON	001295-2N5449						
0206	00000.500	FT		0410499-0005	SLEEVE, THERLON #24 NATURAL	QPL - MIL-I-22129						
0213	00001.000	EA		0996059-0015	OSCILLATOR, RF 1.920MHZ .01% XTAL CONT	001537-K-1100 A						
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE KENN D D W/O ADAPT, 18.75 IPS, 1/F					
APPRO. MFG		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 2261635-0009		REV L		

TEXAS INSTRUMENTS INCORPORATED		DATE 02/21/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 2261635-5001		REV L		
DRAWING NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00001.000	EA		2261636-0001	PWB, 979 MAG TAPE, 800/1600 BPI, 1/F							
0005	00002.000	EA		0972900-7400	NETWORK SN74LS00N	TI - SN74LS00N						
0005A					U807 UF07							
0006	00003.000	EA		0240000-7400	NETWORK-SN74H00N							
0006A					U808 UB10 UH08							
0007	00002.000	EA		0972900-7402	NETWORK-SN74LS02N							
0007A					UD08 UH07							
0008	00002.000	EA		0222222-7404	NETWORK-SN7404N							
0008A					UD14 UR07							
0009	00006.000	EA		0972900-7404	NETWORK-SN74LS04N							
0009A					UA14 UC04 UC12 UF12 UN10							
0009B					UR11							
0010	00002.000	EA		0240000-7404	NETWORK-SN74H04N							
0010A					UB06 UF02							
0011	00002.000	EA		0222222-7406	NETWORK-SN7406N							
0011A					UH10 UH11							
0012	00002.000	EA		0222222-7407	NETWORK-SN7407N	11- -SN7407N						
0012A					UC09 UH09							
0013	00006.000	EA		0972749-0001	NETWORK, SN74LS08N							
0013A					UC07 UC15 UD05 UD06 UN03							
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE AUTO-INSERTED PARTS LIST FOR 2261635-1					
APPRO. MFG		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 2261635-5001		REV L		

TEXAS INSTRUMENTS INCORPORATED		DATE 02/21/80		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM 2261635-5001		REV L		
DRAWING NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0013B					UF03							
0014	00003.000	EA		0972900-7410	NETWORK-SN74LS10N							
0014A					UC05 UD01 UP02							
0015	00001.000	EA		0240000-7411	NETWORK-SN74H11N							
0015A					UD11							
0016	00002.000	EA		0972900-7420	NETWORK-SN74LS20N							
0016A					UD13 UF01							
0017	00007.000	EA		0972900-7432	NETWORK-SN74LS32N	TI - SN74LS32N						
0017A					UC13 UD07 UN11 UN12 UN13							
0017B					UP14 UP15							
0018	00003.000	EA		0222222-7437	NETWORK-SN7437N							
0018A					UF08 UH04 UL05							
0019	00001.000	EA		0240000-7451	NETWORK-SN74H51N							
0019A					UB09							
0020	00003.000	EA		0972900-7474	NETWORK-SN74LS74N							
0020A					UA11 UP03 UB06							
0021	00002.000	EA		0240000-7474	NETWORK-SN74H74N							
0021A					UC06 UC08							
0022	00003.000	EA		0972751-0001	NETWORK, SN74LS86N							
0022A					UA13 UP08 UP10							
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE AUTO-INSERTED PARTS LIST FOR 2261635-1					
APPRO. MFG		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM 2261635-5001		REV L		

TEXAS INSTRUMENTS INCORPORATED		DATE 02/21/80		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM 2261635-5001		REV L	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0023	00005.000	EA		0972900-7109	NETWORK SN74LS109N	TI	-SN74LS109N				
0023A					UC14 UT04 UA12 UF10 UR04						
0024	00002.000	EA		0222222-7125	NETWORK SN74125N						
0024A					UF11 UN05						
0025	00004.000	EA		0222222-7126	NETWORK SN74126N	TI	-SN74126N				
0025A					UF13 UL13 UN05 UN04						
0026	00002.000	EA		0222222-7132	NETWORK SN74132N						
0026A					UC10 UD09						
0027	00002.000	EA		0972900-7138	NETWORK SN74LS138N	TI	-SN74LS138N				
0027A					UE09 UF09						
0028	00001.000	EA		0219402-7138	NETWORK SN74S138N						
0028A					UB12						
0029	00005.000	EA		0974674-0001	NETWORK SN75138N						
0029A					UA05 UA06 UB11 US12 US13						
0031	00001.000	EA		0219402-7153	NETWORK SN74S153N	TI	-SN74S153N				
0031A					UE05						
0032	00005.000	EA		0972686-0001	NETWORK-QUAD MULTIPLEXER, SN74LS157N						
0032A					UF03 UF04 UE05 UF06 US04						
0033	00002.000	EA		0219402-7157	NETWORK SN74S157N						
0033A					UE02 UE06						
DRAFTSMAN DATE C/D DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO-INSERTED PARTS LIST FOR 2261635-1											
APP'D. MFG DATE APP'D. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM 2261635-5001 L											

TEXAS INSTRUMENTS INCORPORATED		DATE 02/21/80		LIST OF MATERIAL		PAGE 4 of		PART NUMBER LM 2261635-5001		REV L	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0034	00003.000	EA		0222222-7173	NETWORK SN74173N						
0034A					UA07 UC01 UC02						
0035	00009.000	EA		0972900-7174	NETWORK SN74LS174N						
0035A					UE13 UL15 UM06 UP05 UR08						
0035B					UR09 UM01 UM02 UM15						
0036	00003.000	EA		0222222-7180	NETWORK SN74180N						
0036A					UC03 UM02 UR04						
0037	00003.000	EA		0219402-7182	NETWORK SN74S182N	TI	-SN74S182N				
0037A					UE01 UE03 UE07						
0038	00002.000	EA		0996136-0001	IC, SN74LS257N, DATA SELECTORS/MULTIPLEXER	TI	-SN74LS257N				
0038A					UB02 UB03						
0039	00005.000	EA		0972787-0003	NETWORK SN74LS367N						
0039A					UA02 UA03 UA04 UB04						
0039B					UE15						
0040	00016.000	EA		0972856-0001	NETWORK, SN74376N						
0040A					UH03 UH12 UH13 UH14 UH15						
0040B					UL01 UL02 UM11 UM12 UM13						
0040C					UN01 UN14 UN15 UP07 UR05						
0040D					US02						
0041	00003.000	EA		0974849-0001	NETWORK, DM8136						
DRAFTSMAN DATE C/D DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO-INSERTED PARTS LIST FOR 2261635-1											
APP'D. MFG DATE APP'D. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM 2261635-5001 L											

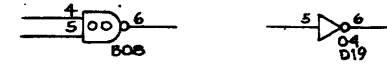
TEXAS INSTRUMENTS INCORPORATED		DATE 02/21/80		LIST OF MATERIAL		PAGE 5 of		PART NUMBER LM 2261635-5001		REV L	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0041A					UA08 UA09 UA10						
0043	00001.000	EA		0219402-7162	IC SN74S162N	TI	-SN74S162N				
0043A					UL06						
0044	00001.000	EA		0219402-7474	NETWORK SN74S74N						
0044A					UE04						
0045	00001.000	EA		0219402-7260	NETWORK SN74S260N						
0045A					UE08						
0046	00001.000	EA		0972667-0001	NETWORK, SN74LS279N						
0046A					UE11						
0047	00001.000	EA		0972556-0001	NETWORK SN74367N	TI	-SN74367N				
0047A					UB05						
0048	00006.000	EA		0996035-0002	IC, 4 BIT COUNTER SN74393N						
0048A					UB13 UB15 UM07 UR03 US01						
0048B					UT07						
0056	00002.000	EA		0800118-0008	RESISTOR 1.0KOHMS DIL PULL UP 16 PINS	BEC	-J981R1-L0K				
0056A					UD03 UD04						
0076	00002.000	EA		0972525-0001	NETWORK, RESISTOR 28 ELEMENT 16 PIN DIP	BEC	-J98-5-R 220/B				
0076A					UD02 US11						
0081	00003.000	EA		0972686-0002	NETWORK SN74LS158N						
0081A					US03 US04 US05						
DRAFTSMAN DATE C/D DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO-INSERTED PARTS LIST FOR 2261635-1											
APP'D. MFG DATE APP'D. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM 2261635-5001 L											

TEXAS INSTRUMENTS INCORPORATED		DATE 02/21/80		LIST OF MATERIAL		PAGE 6 of		PART NUMBER LM 2261635-5001		REV L	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0082	00011.000	EA		0972669-0001	NETWORK,SN74LS163N						
0082A					UP01 UR01 US14 US15 UP11						
0082B					UP12 UP13 UR12 UK13 UR14						
0082C					UR15						
0083	00011.000	EA		0972688-0001	NETWORK SN74LS164N						
0083A					UL08 UL09 UM10 UN06 UN06						
0083B					UM08 UN09 UP06 UR02 UN09						
0083C					UN07						
0084	00001.000	EA		0219402-7408	NETWORK SN74S08N	TI-	-SN74S08N				
0084A					UL03						
0088	00001.000	EA		0219402-7432	NETWORK SN74S32N	TI-	-SN74S32N				
0088A					UL04						
0091	00001.000	EA		0222222-7442	NETWORK-SN7442N						
0091A					UL07						
0092	00001.000	EA		0222222-7128	NETWORK SN74L28N	TI	-SN74L28N				
0092A					UP09						
0094	00001.000	EA		0972788-0001	NETWORK,SN74LS11,POSITIVE AND GATE						
0094A					UM03						
0097	00003.000	EA		0219402-7251	NETWORK SN74S251						
0097A					UL10 UL11 UL12						
DRAFTSMAN _____ DATE _____ C/D DRAFTSMAN _____ DATE _____ DESIGN ENGINEER _____ DATE _____ TITLE _____ AUTO-INSERTED PARTS LIST FOR 2261635-1 APPD. MFG. _____ DATE _____ APPD. PROJECT ENGINEER _____ DATE _____ RELEASED _____ DATE _____ PROJECT NO. _____ PART NUMBER: LM 2261635-5001 REV: L											

TEXAS INSTRUMENTS INCORPORATED		DATE 02/21/80		LIST OF MATERIAL		PAGE 7 of		PART NUMBER LM 2261635-5001		REV L	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0098	00001.000	EA		0972900-7112	NETWORK SN74LS112N	TI	-SN74LS112N				
0098A					UN04						
0099	00002.000	EA		0972784-0002	NETWORK SN74LS14N						
0099A					US08 US09						
0109	00001.000	EA		0222222-7420	NETWORK SN7420N	-SN7420N					
0109A					UD15						
DRAFTSMAN _____ DATE _____ C/D DRAFTSMAN _____ DATE _____ DESIGN ENGINEER _____ DATE _____ TITLE _____ AUTO-INSERTED PARTS LIST FOR 2261635-1 APPD. MFG. _____ DATE _____ APPD. PROJECT ENGINEER _____ DATE _____ RELEASED _____ DATE _____ PROJECT NO. _____ PART NUMBER: LM 2261635-5001 REV: L											

NOTES: UNLESS OTHERWISE SPECIFIED,

1. ALL DEVICE TYPES ARE PREFIXED WITH 5N74.
2. GROUND IS APPLIED TO PIN 7 OF ALL 14-PIN IC'S, PIN 8 OF ALL 16-PIN IC'S AND PIN 10 OF ALL 20-PIN IC'S.
3. VCC IS APPLIED TO PIN 14 OF ALL 14-PIN IC'S, PIN 16 OF ALL 16-PIN IC'S AND PIN 20 OF ALL 20-PIN IC'S.
4. DEVICE TYPE, PIN NUMBERS, AND LOCATION OF IC IS SHOWN AS FOLLOWS.



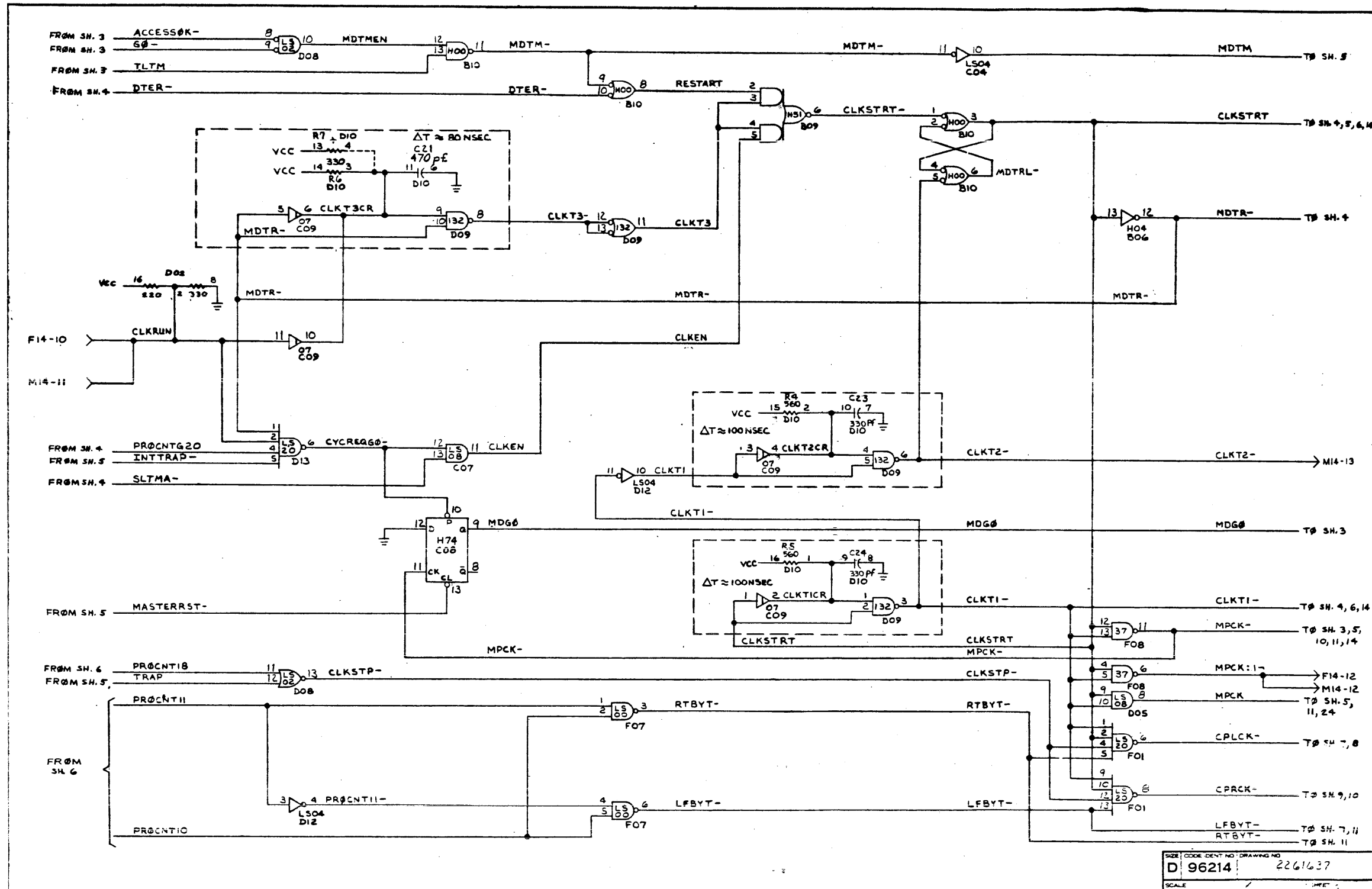
OO AND O4 = DEVICE TYPE  
 4, 5 AND 6 = PIN NUMBERS  
 BOB AND D14 = LOCATION; FIRST LETTER DENOTES ROW, SECOND AND THIRD DIGITS DENOTE COLUMN, IC IS LOCATED AT INTERSECTION OF ROW AND COLUMN.

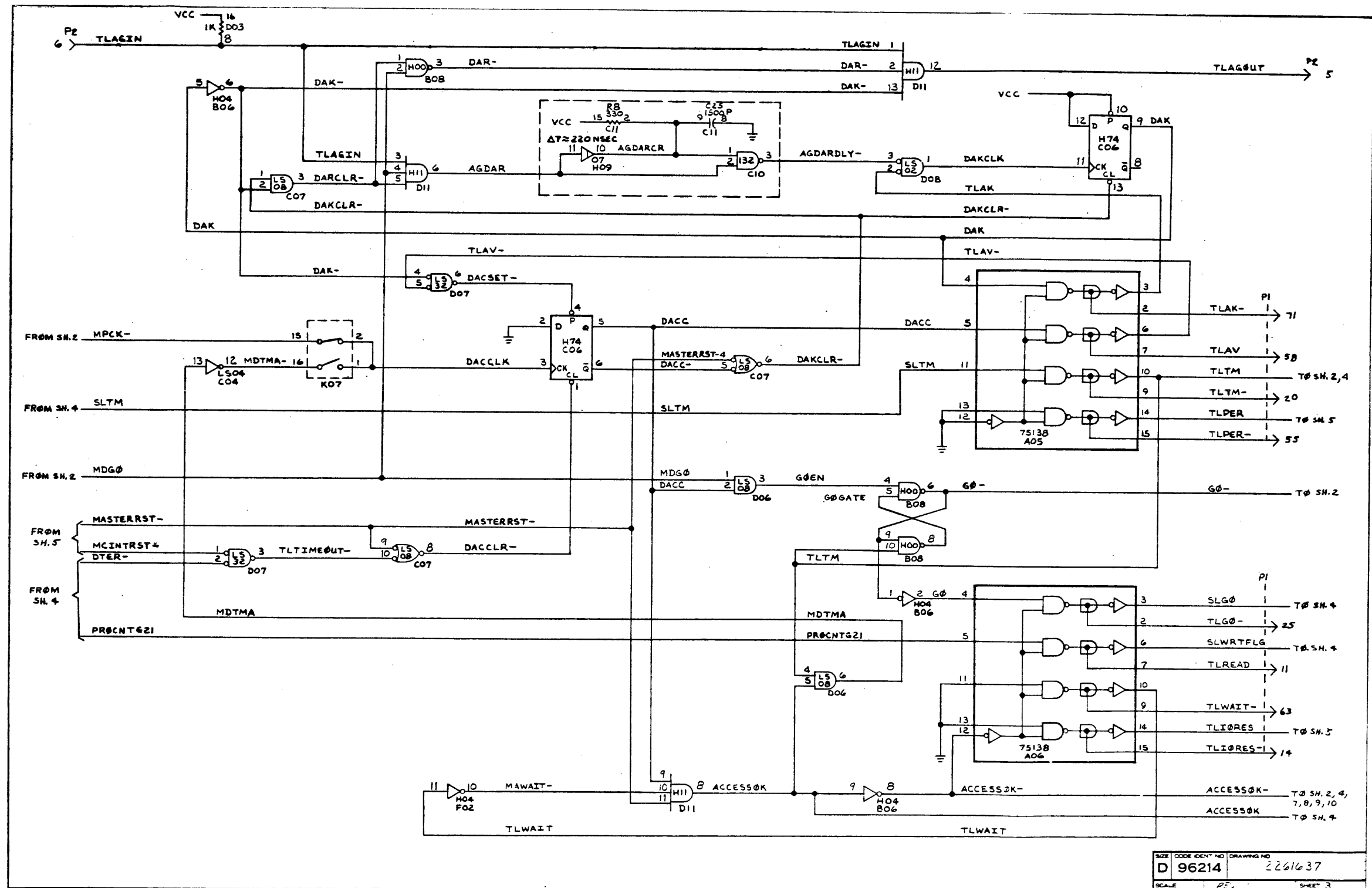
- 5 SEE TABLE I (SHEET 27) FOR C27 CAPACITOR VALUES  
 6 SEE TABLE II (SHEET 27) FOR XTAL FREQUENCY VALUES

REVISIONS			
ZONE	LTR	DESCRIPTION	DATE
	A	CN 441169 (C) L. Poyce	7-17-75
	B	CN 442579 (C) L. Tuttle	12-5-78
	C	CN 443482 (C) R. G. White	4-30-79
	D	CN 461372 (E) R. G. White	3-31-80
	E	CN 437952 (E) R. G. White	3-31-80

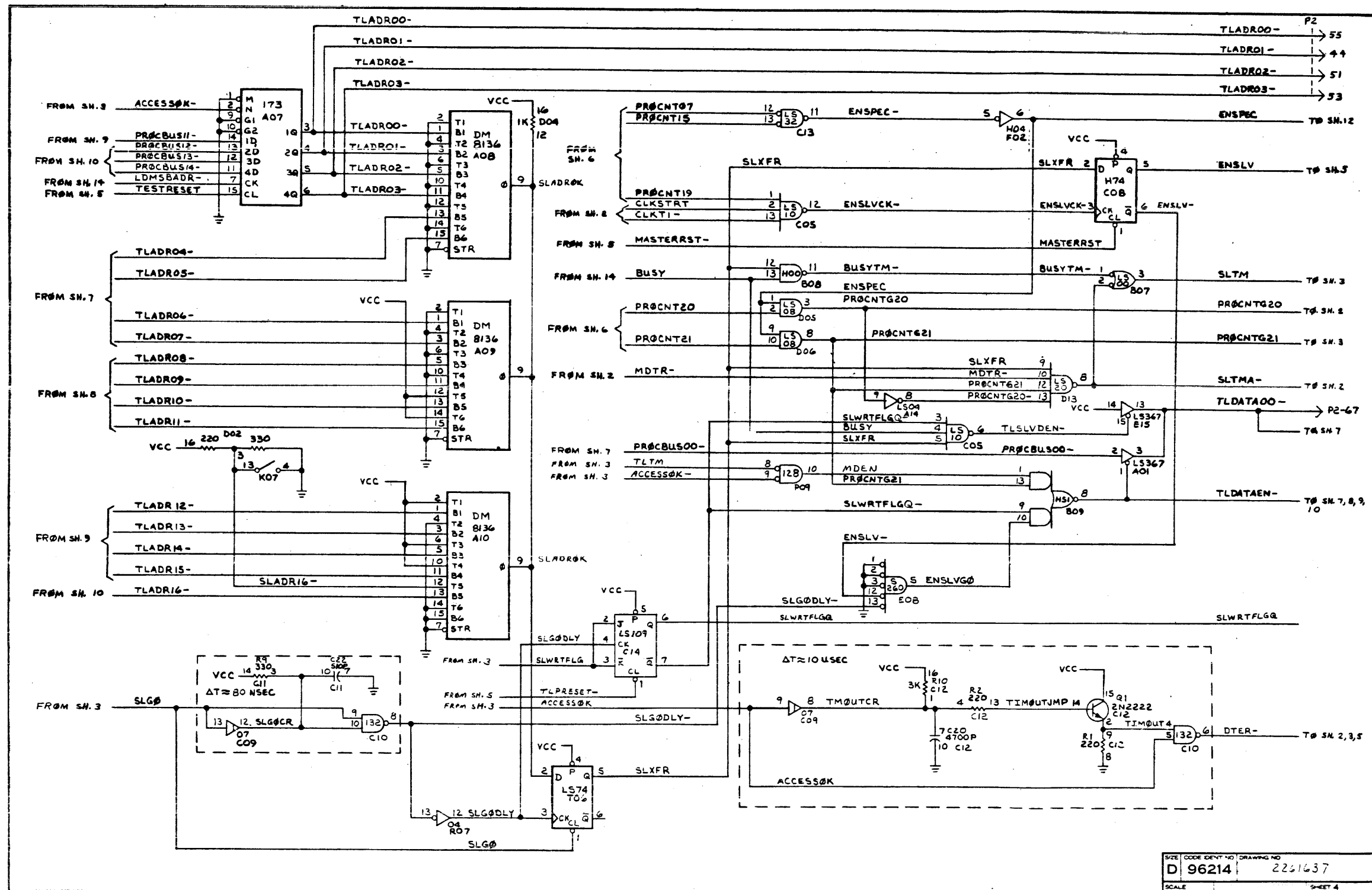
REV STATUS OF SHEETS	REV SHEET	E	E	D	D	D	D	D	D	E	D	E	D	D	D	D	D	E									
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27

QTY REQD	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION
PARTS LIST					
UNLESS OTHERWISE SPECIFIED			UNLESS OTHERWISE SPECIFIED		
REMOVE ALL BURRS AND SHARP EDGES CONCENTRICITY MACHINED DIAMETERS .010 FIR DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100			DIMENSIONS ARE IN INCHES TOLERANCES ANGLES ± 1° 3 PLACE DECIMALS ± .010 2 PLACE DECIMALS ± .02		
HOLE TOLERANCE .013 THRU +.004 126 THRU -.001 .013 THRU +.001 250 THRU -.001 .013 THRU +.001 500 THRU -.001 .501 THRU +.008 750 THRU -.001 .750 THRU +.001 1.000 THRU -.001			MATERIAL: DWN DATE CHK ENGR DRA APVD CONTR NO DESIGN ACTIVITY RELEASE NEXT ASSY USED ON APPLICATION		
TEXAS INSTRUMENTS INCORPORATED Equipment Group Dallas, Texas			LOGIC DIAGRAM TILINE 800/1600 BPI (PWS)		
SIZE CODE IDENT NO DRAWING NO D 96214 116 637			SCALE SHEET		

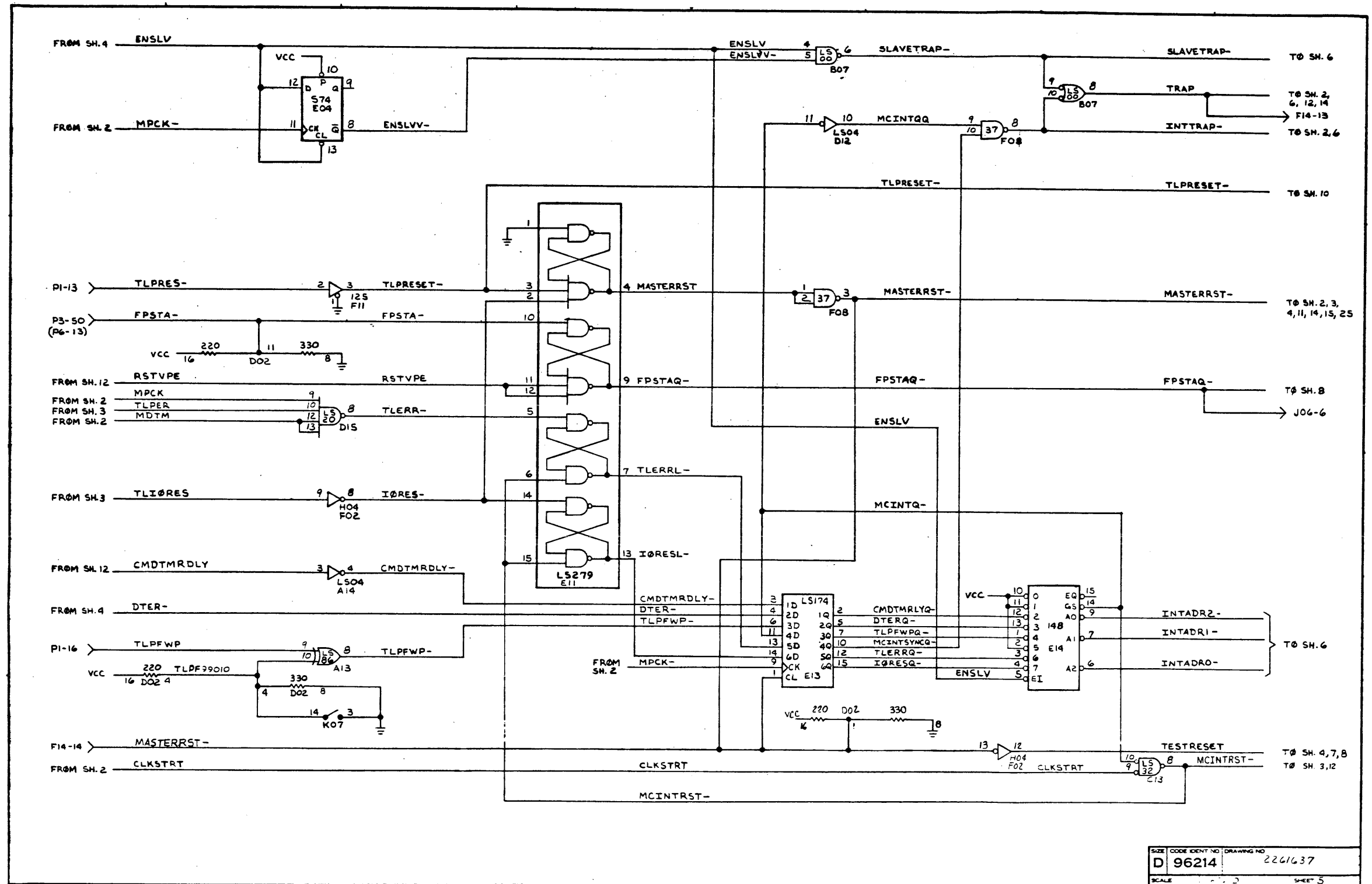




SIZE	CODE IDENT NO	DRAWING NO
D	96214	2261637
SCALE	REV	SHEET 3

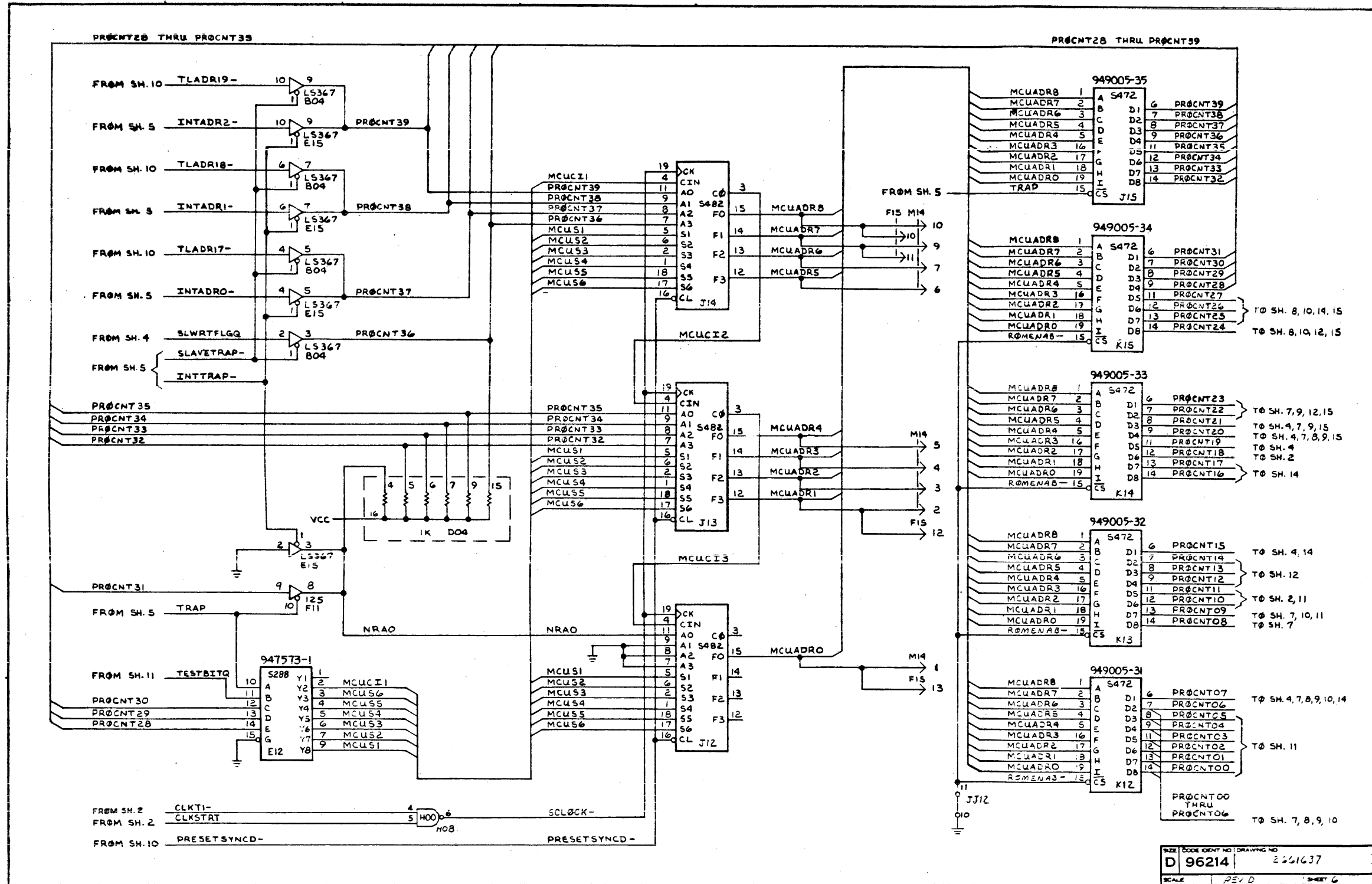


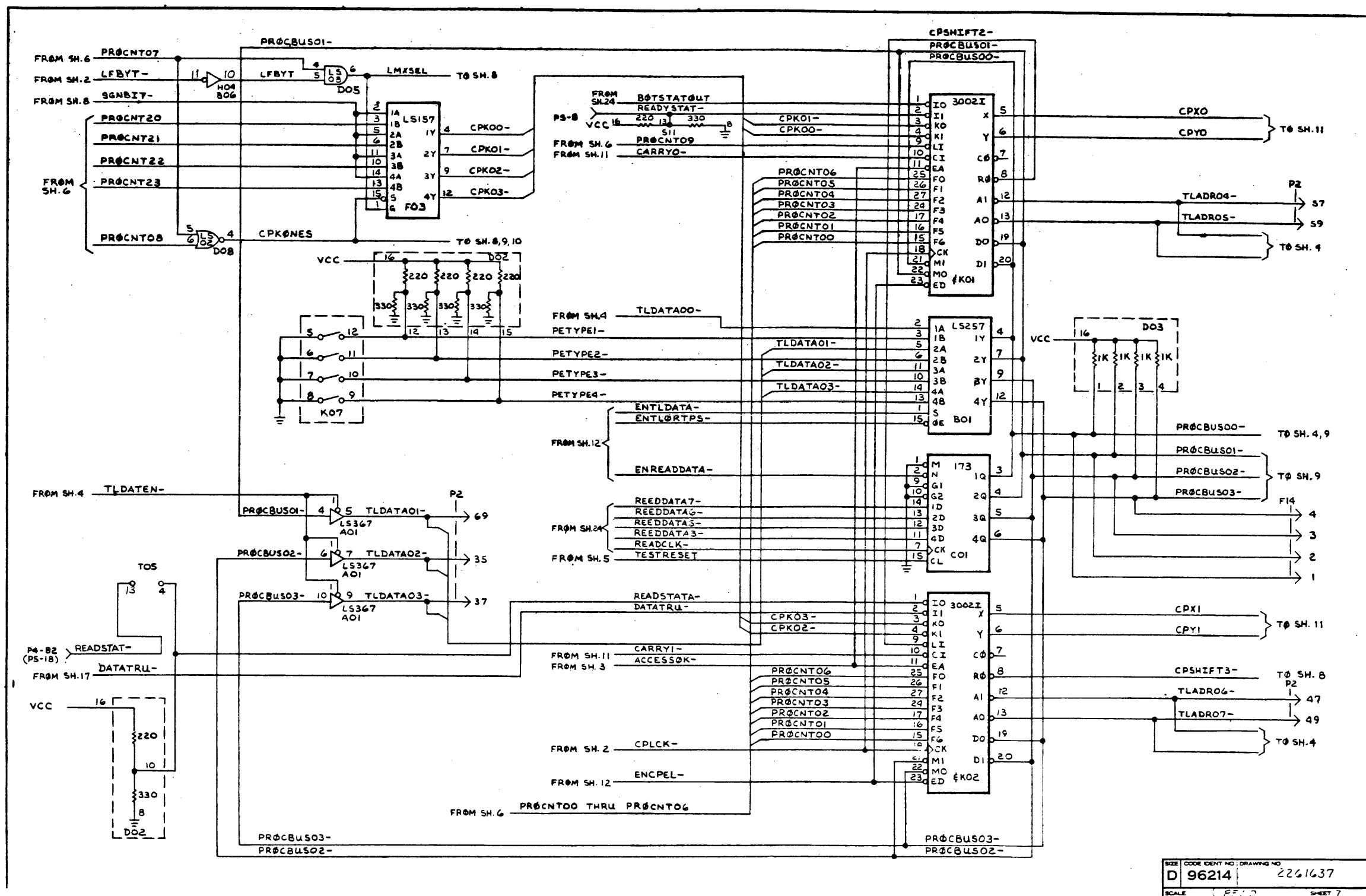
SIZE	CODE	IDENT NO.	DRAWING NO.
D	96214		2261637
SCALE			SHEET 4



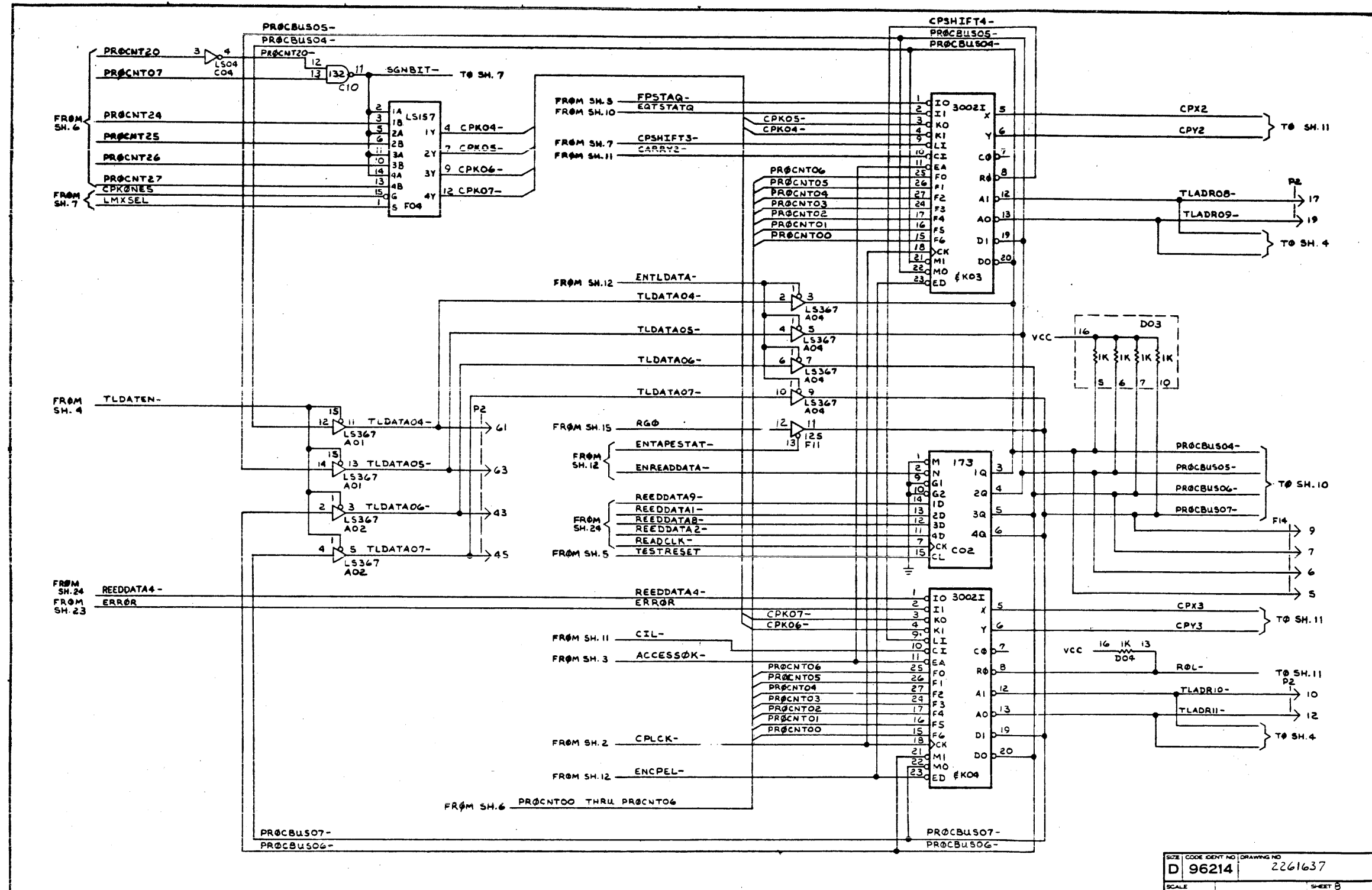
SIZE CODE IDENT NO DRAWING NO  
 D 96214 2261637  
 SCALE SHEET 5



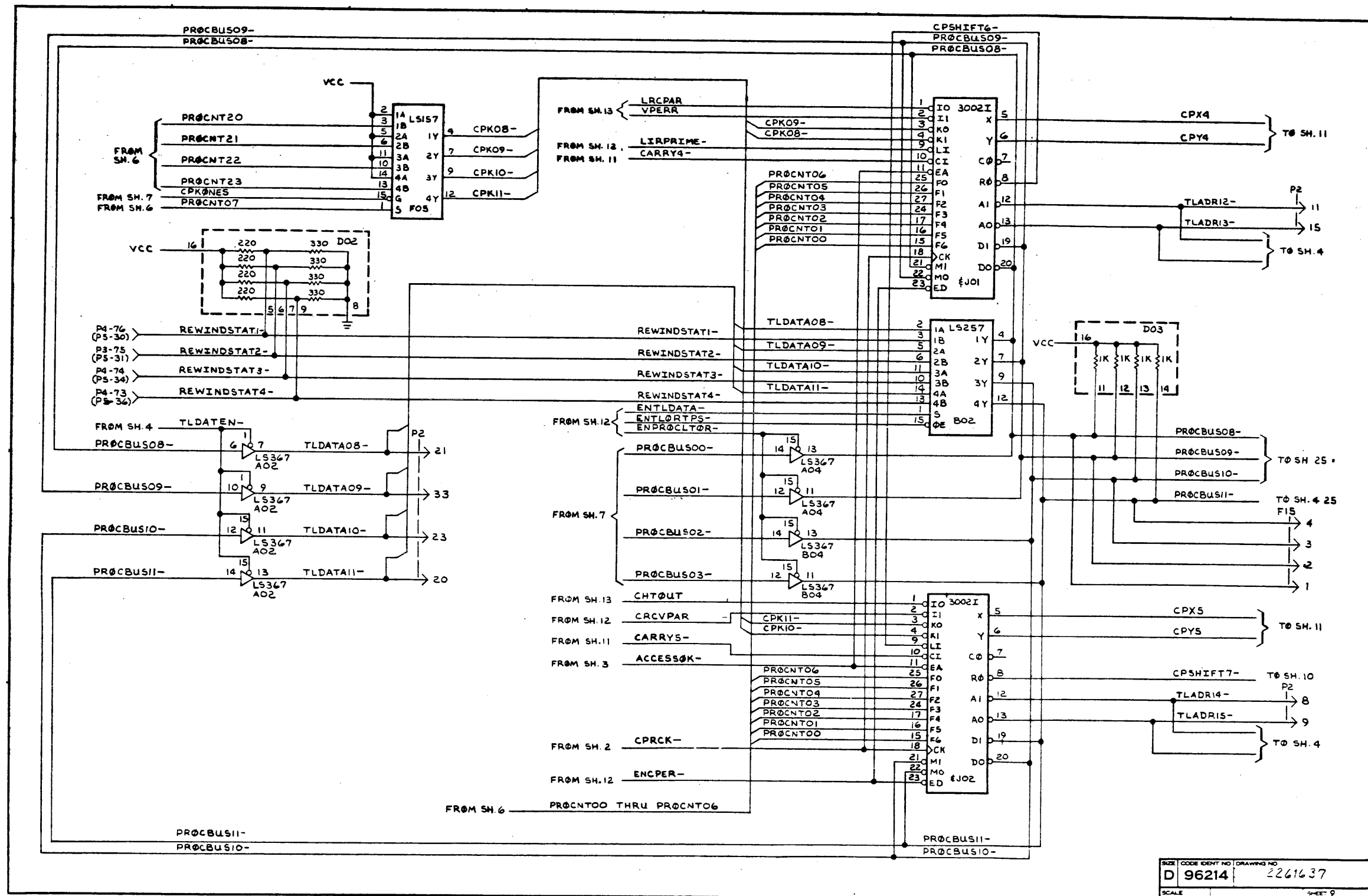




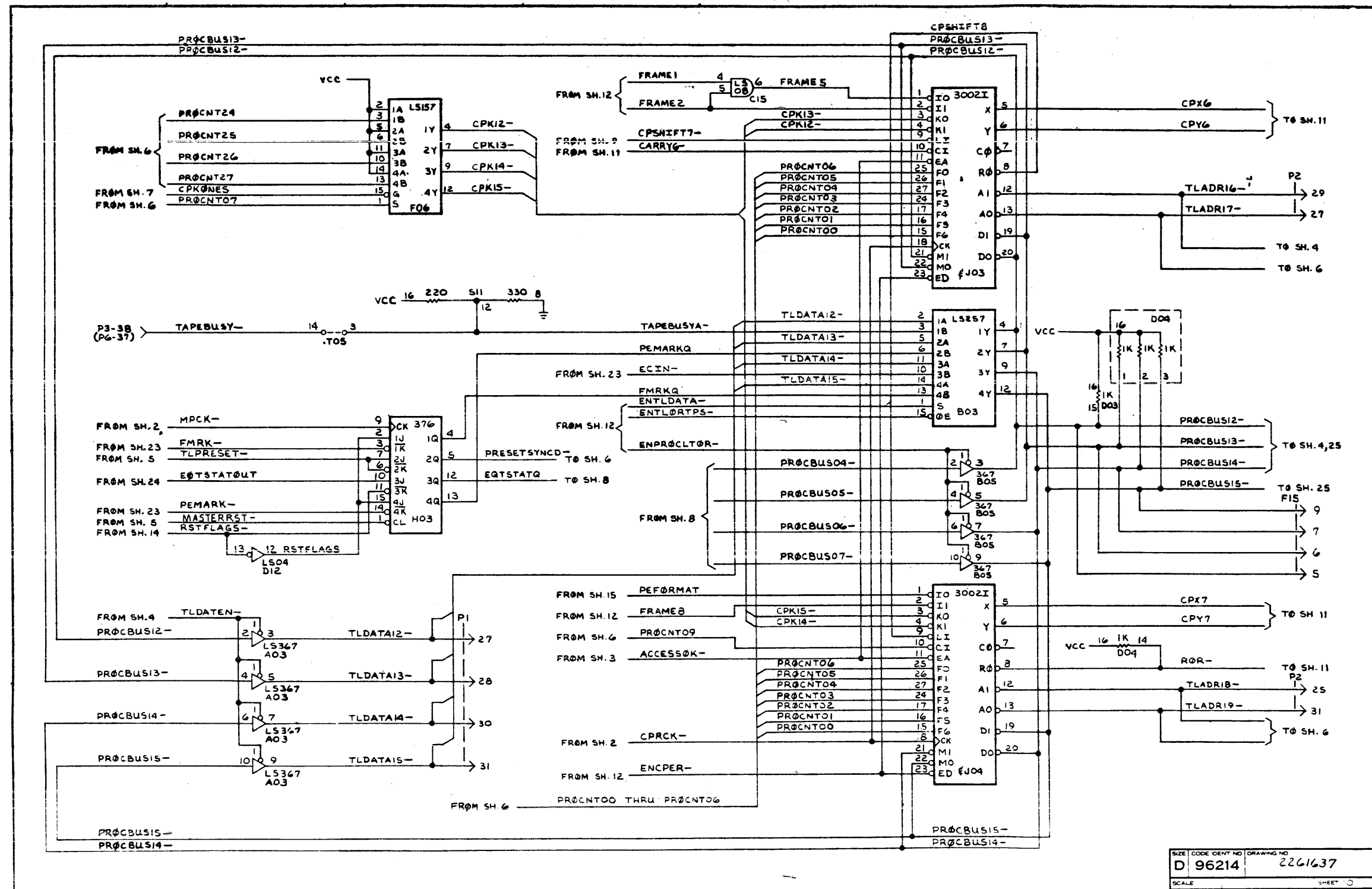
SIZE CODE IDENT NO. DRAWING NO.  
 D 96214 2261637  
 SCALE FEET SHEET 7



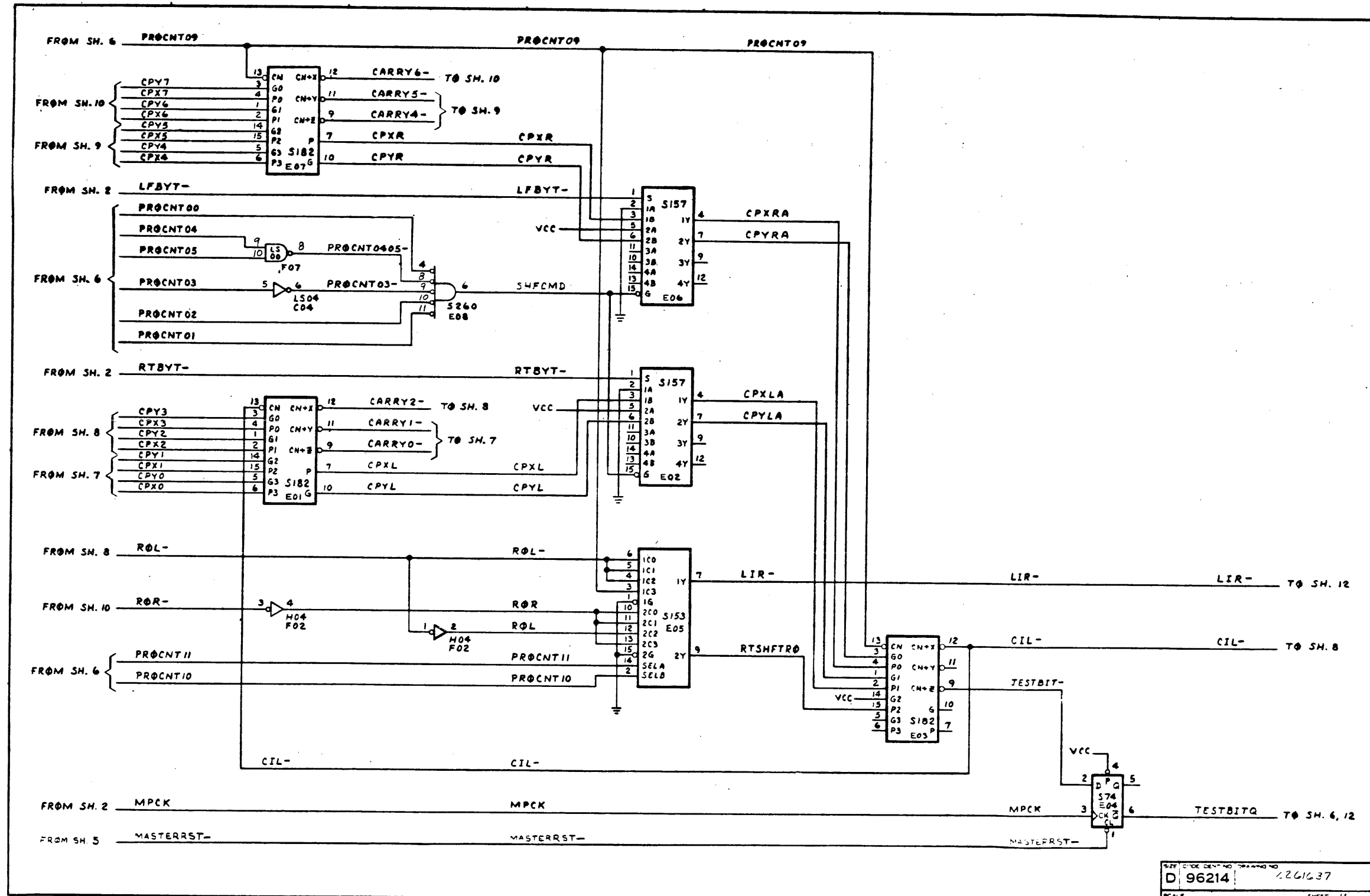
SIZE	CODE	IDENT NO	DRAWING NO
D	96214		2261637
SCALE			SHEET 5



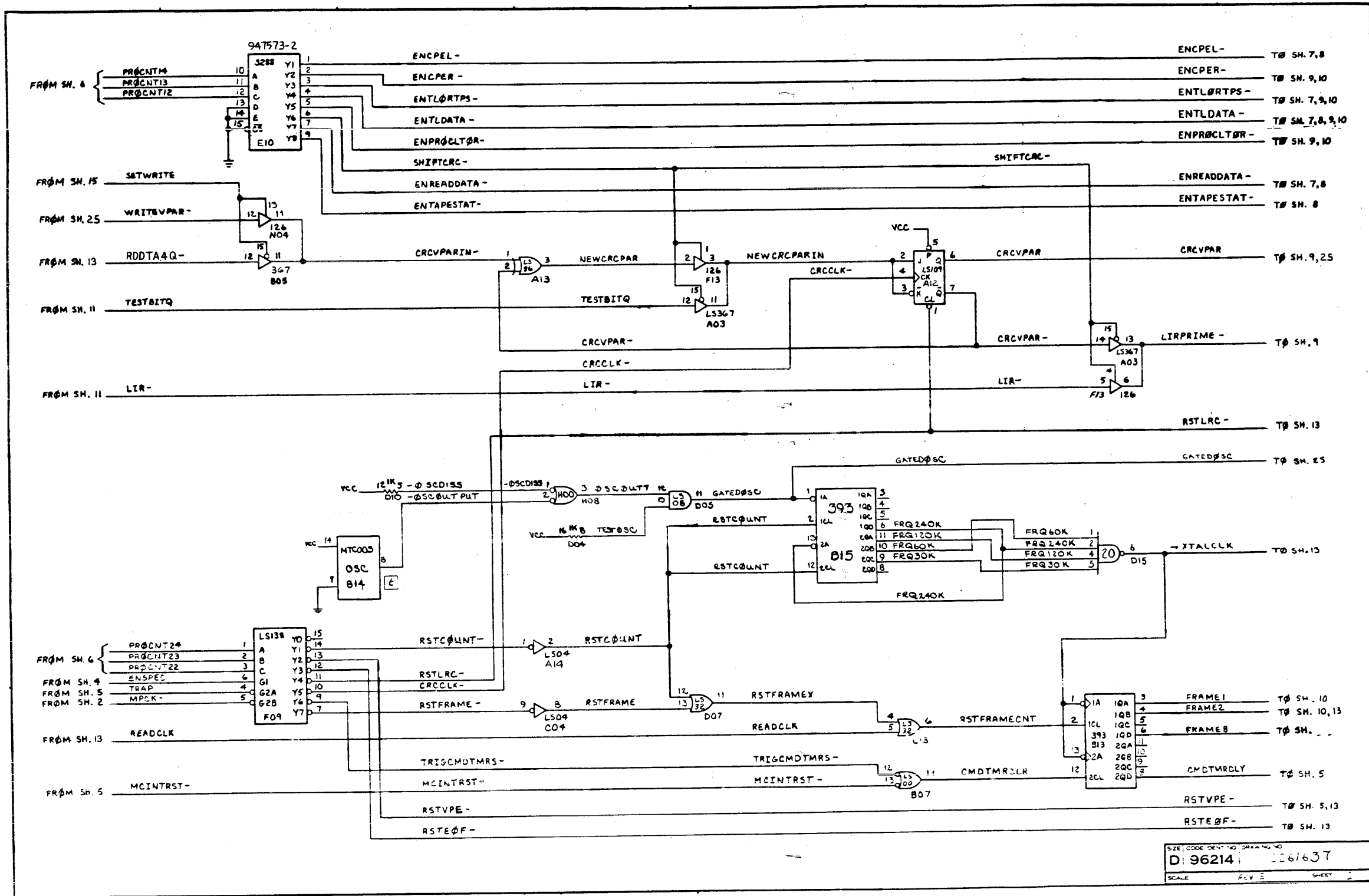
SIZE CODE IDENT NO DRAWING NO  
 D 96214 2261637  
 SCALE SHEET 9

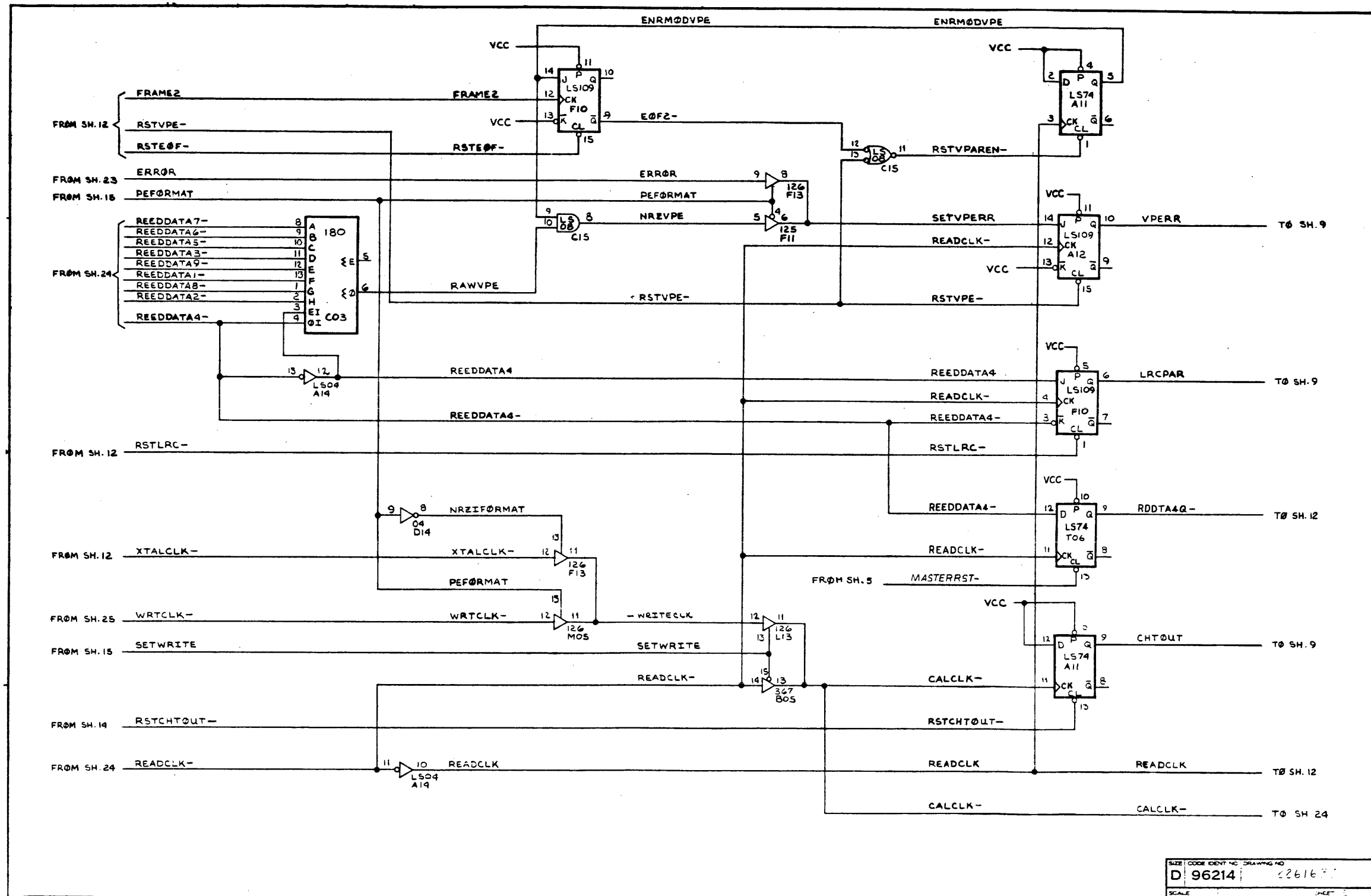


SIZE CODE IDENT NO DRAWING NO  
D 96214 2261637  
SCALE SHEET 0

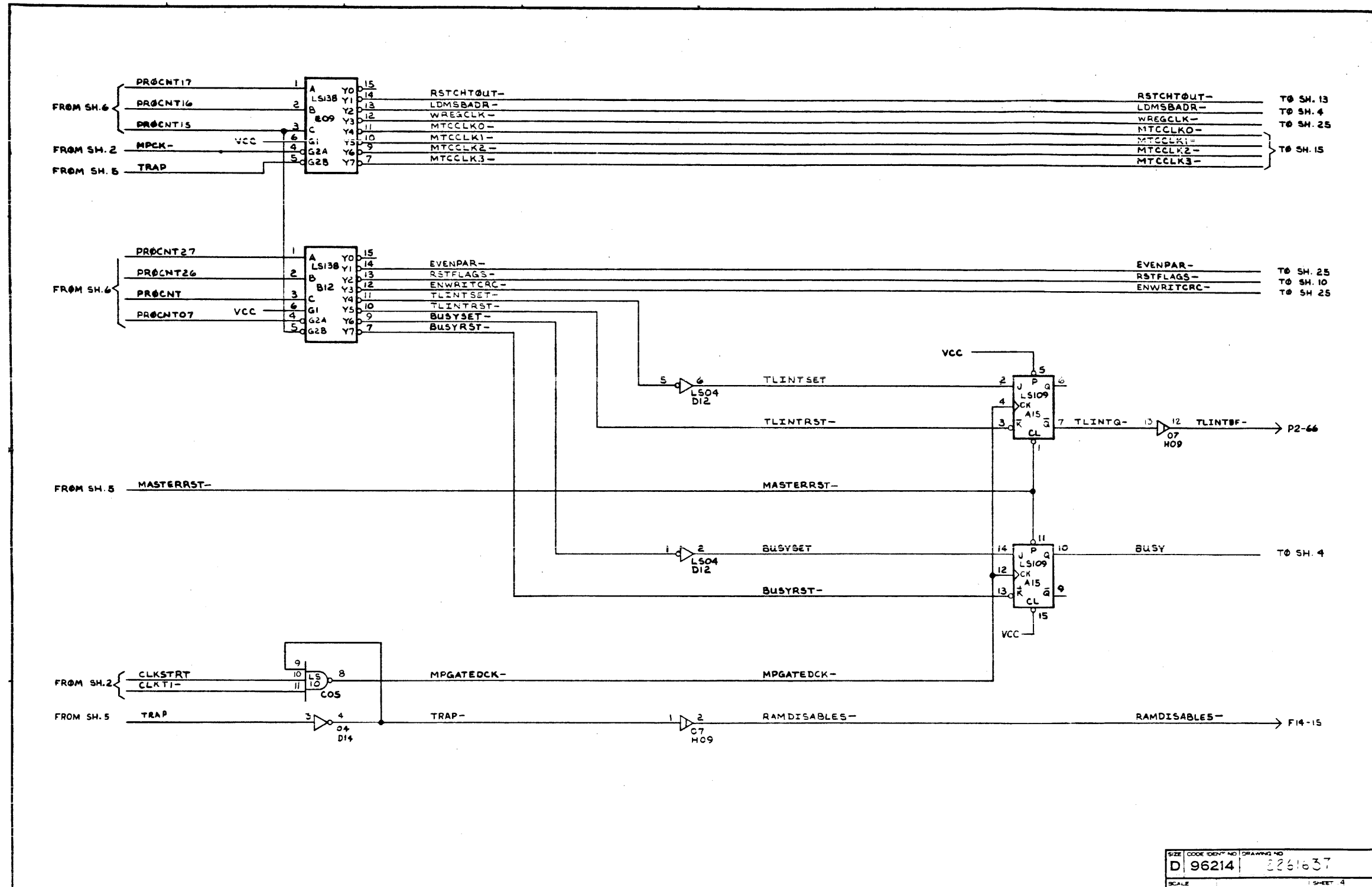


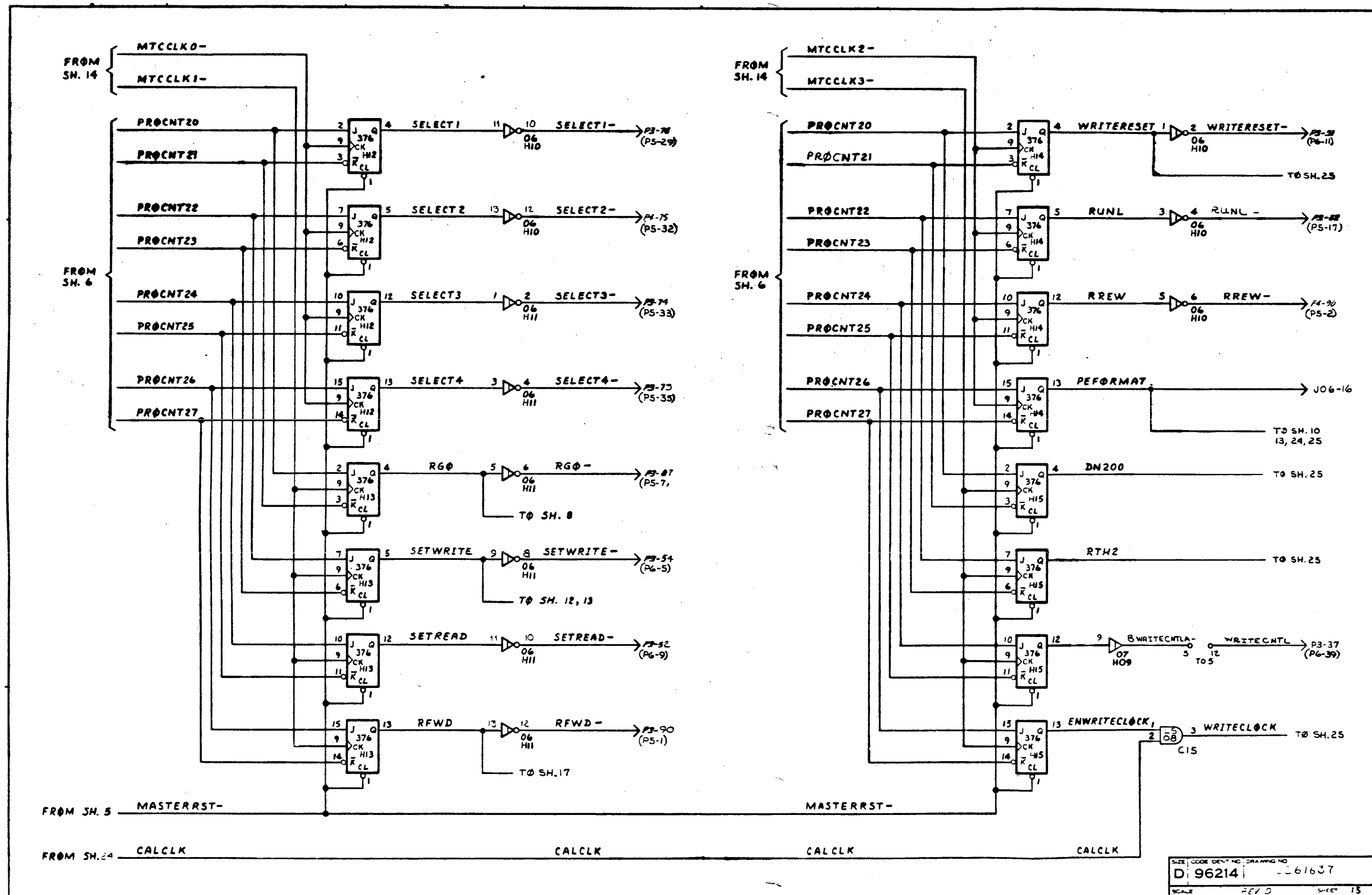
SIZE: 12.61637  
 D 96214 SHEET 11

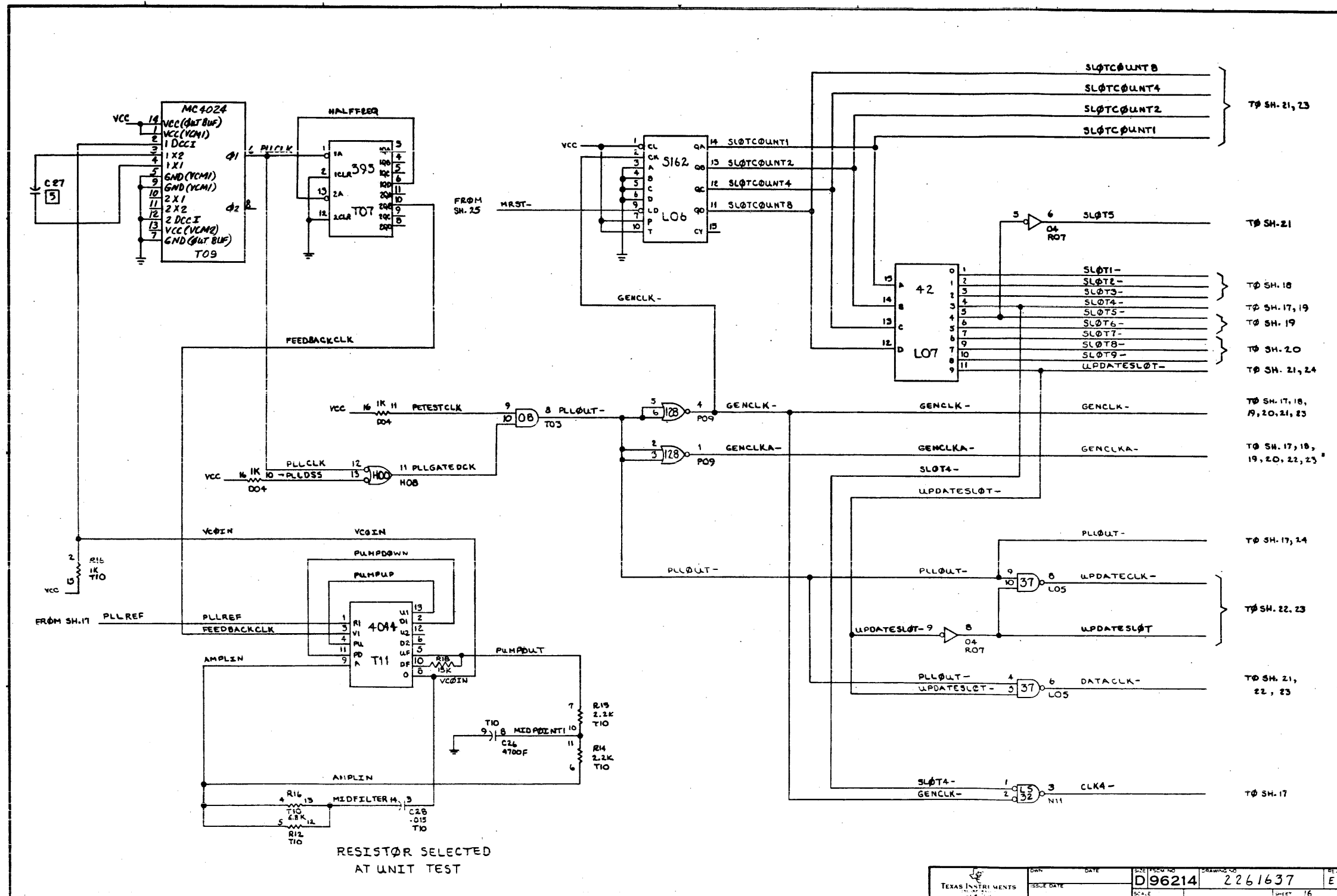


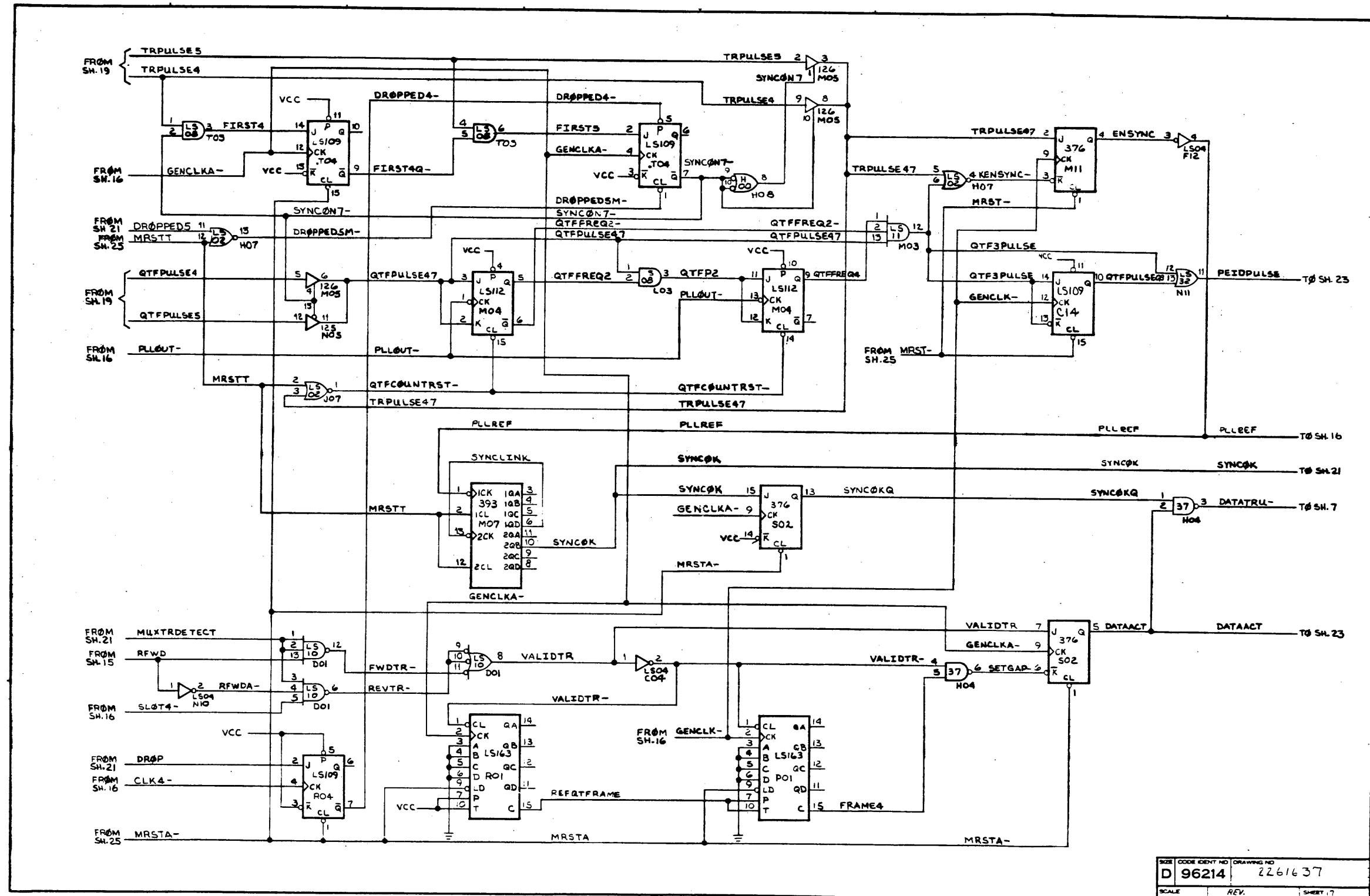




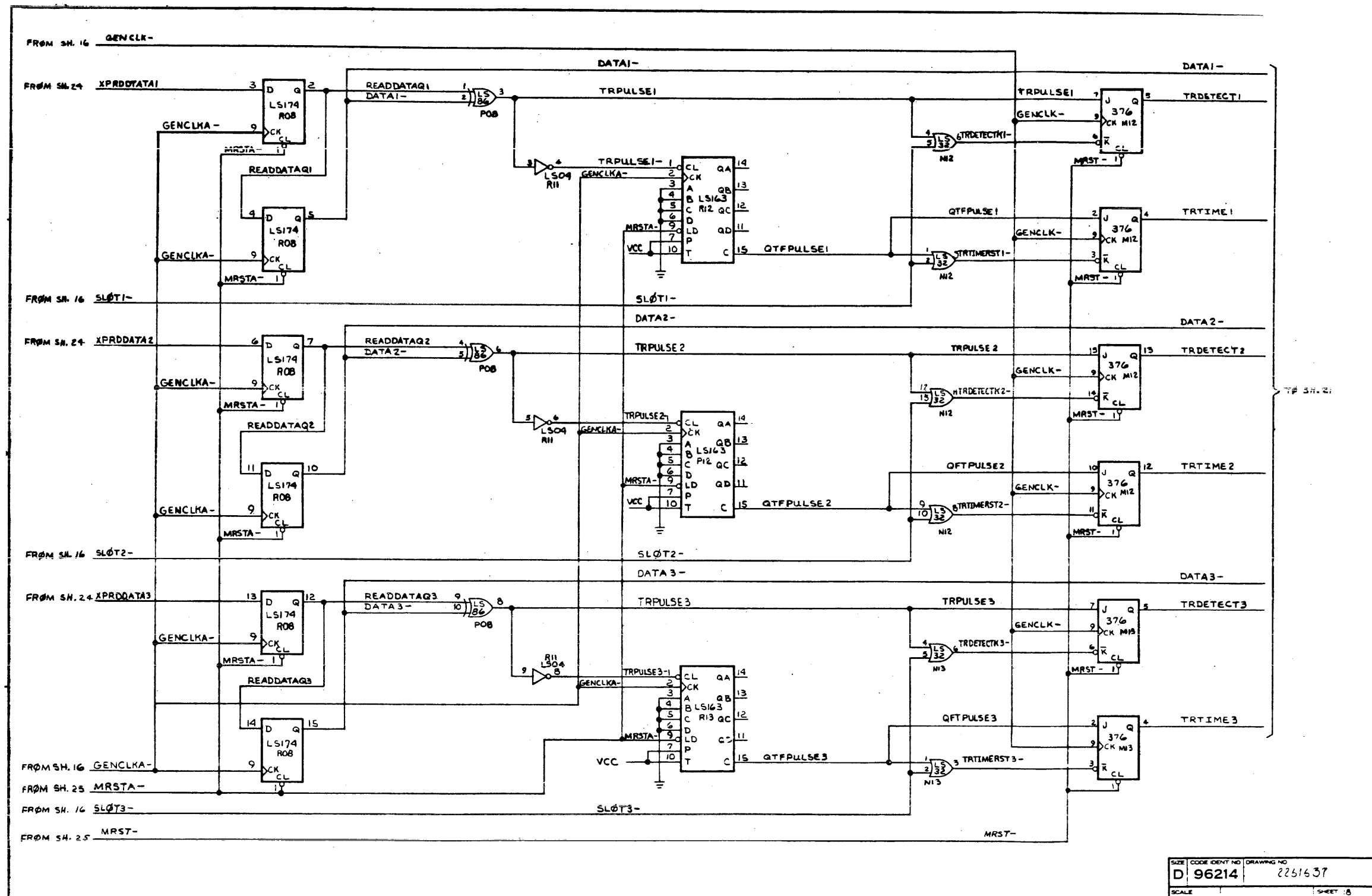


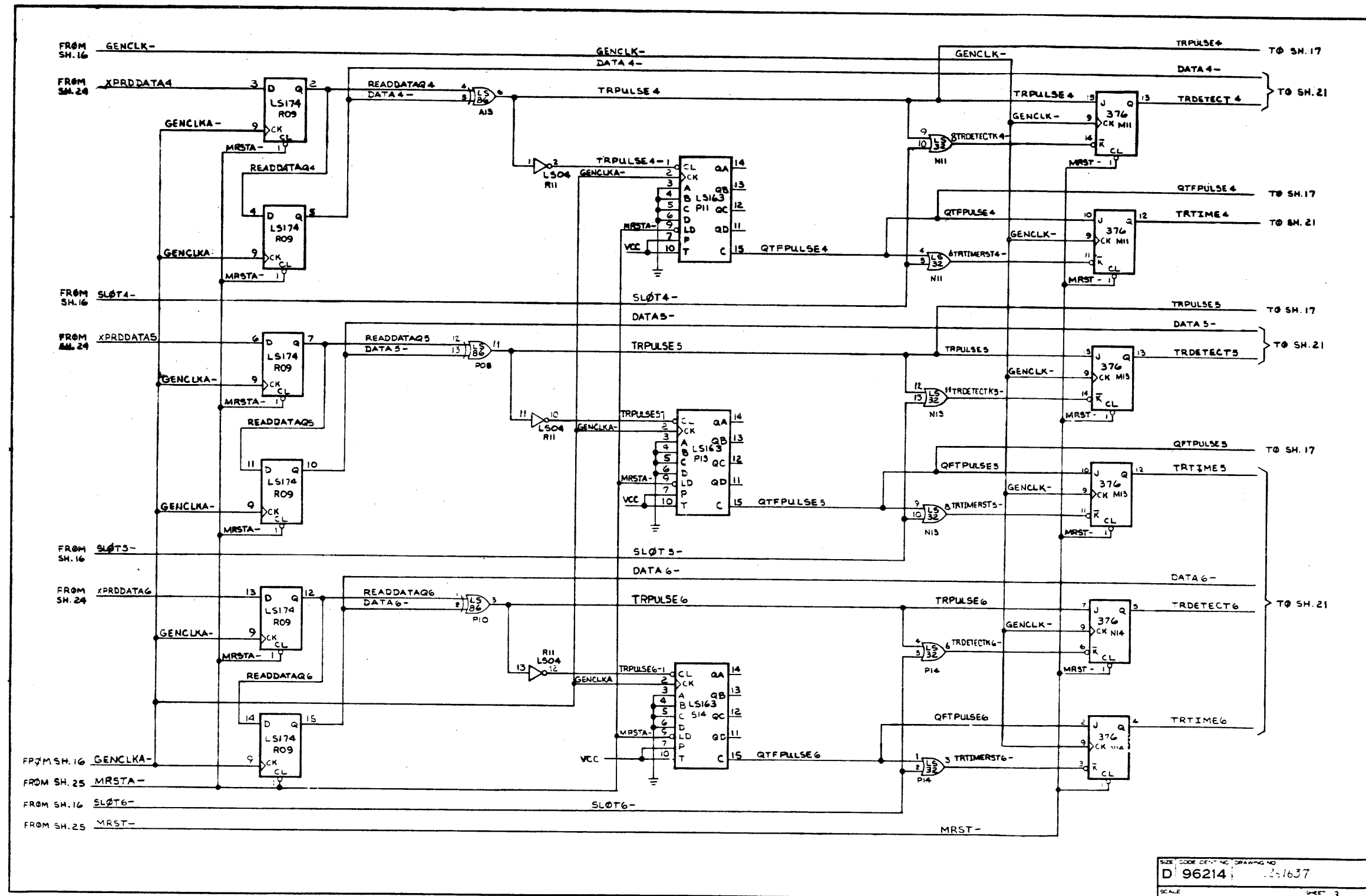


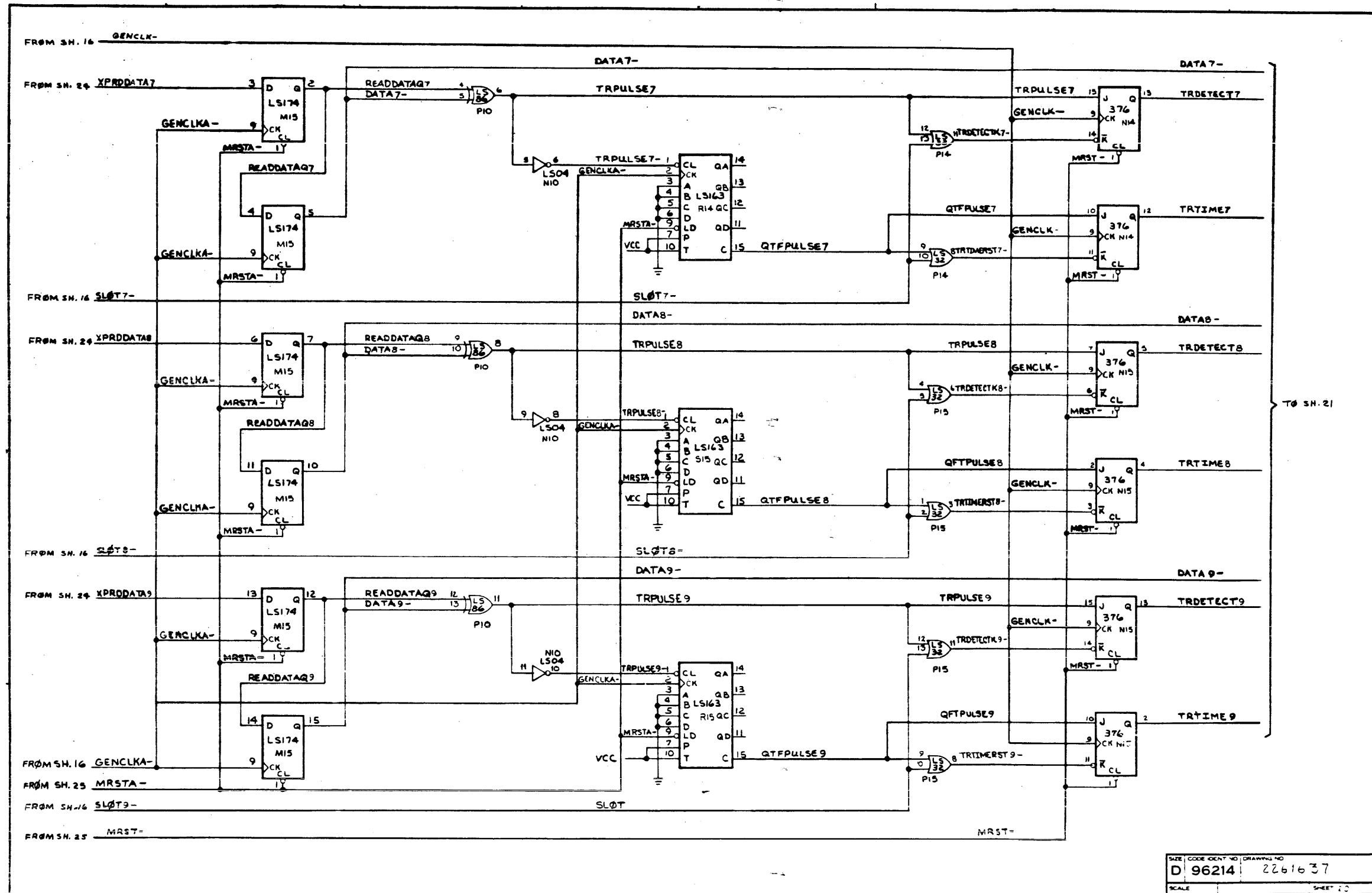


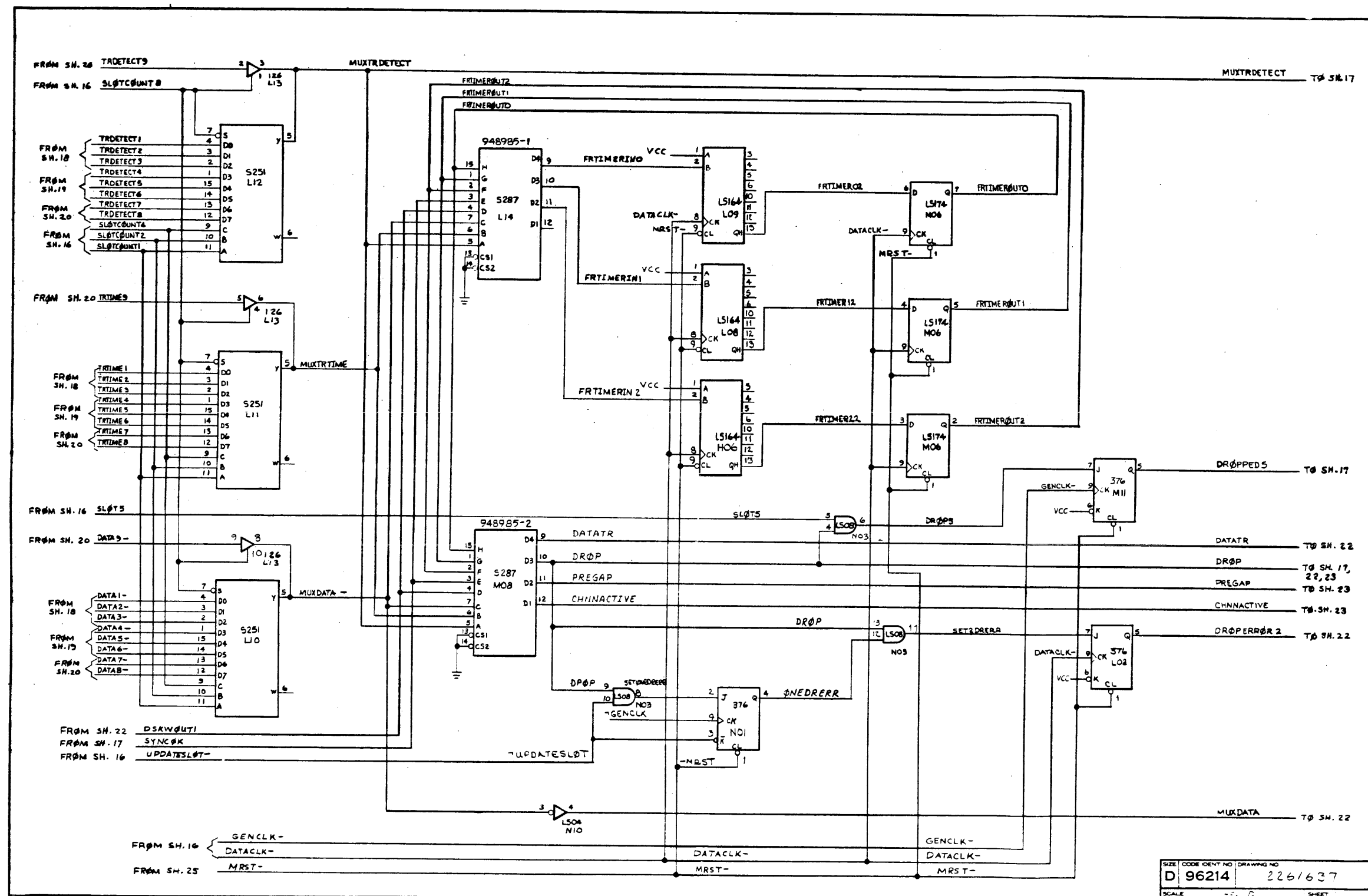


SIZE	CODE IDENT NO	DRAWING NO
D	96214	2261637
SCALE	REV.	SHEET 17



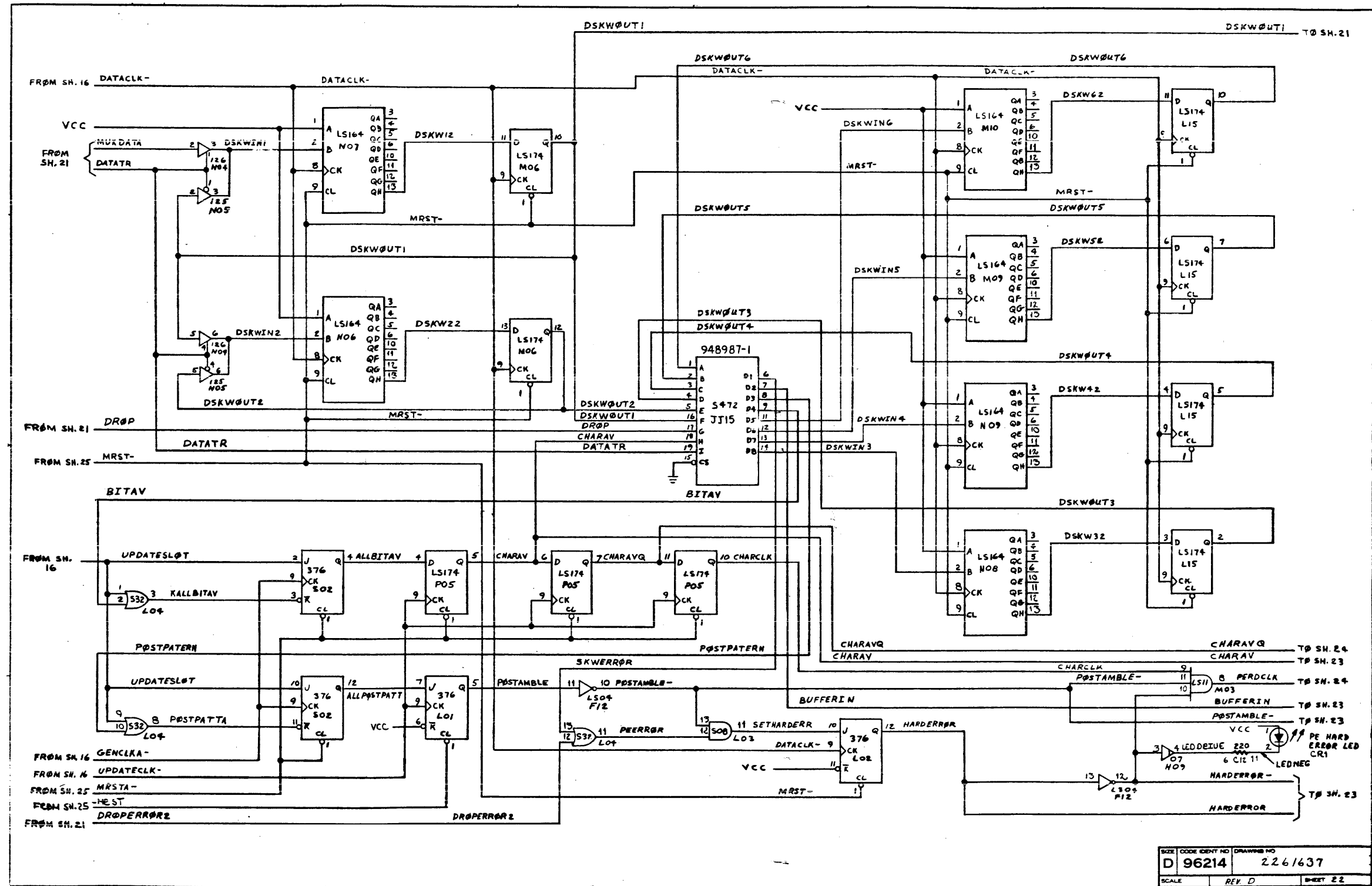




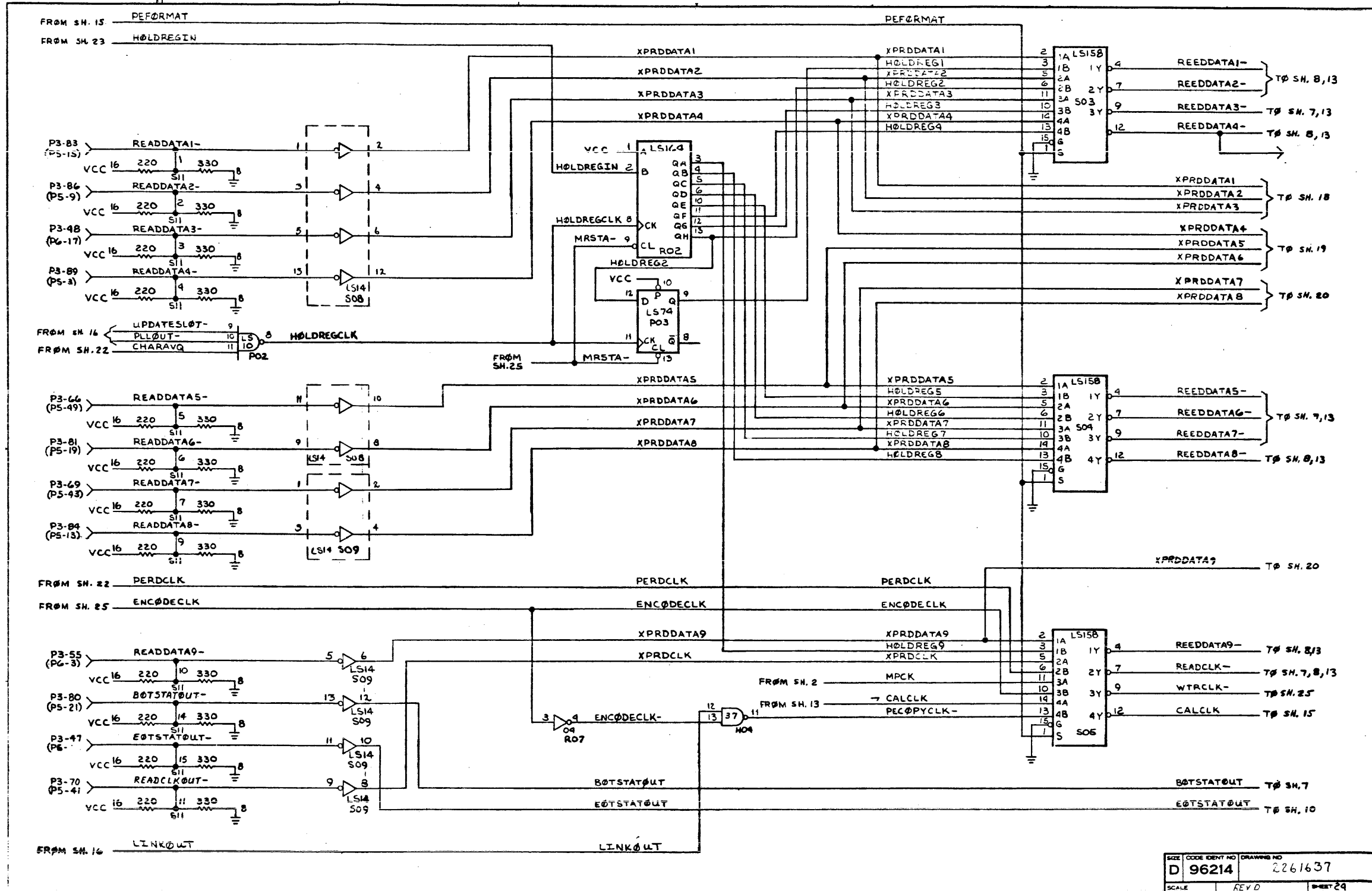


SIZE CODE IDENT NO DRAWING NO  
 D 96214 2261637  
 SCALE -E, C SHEET

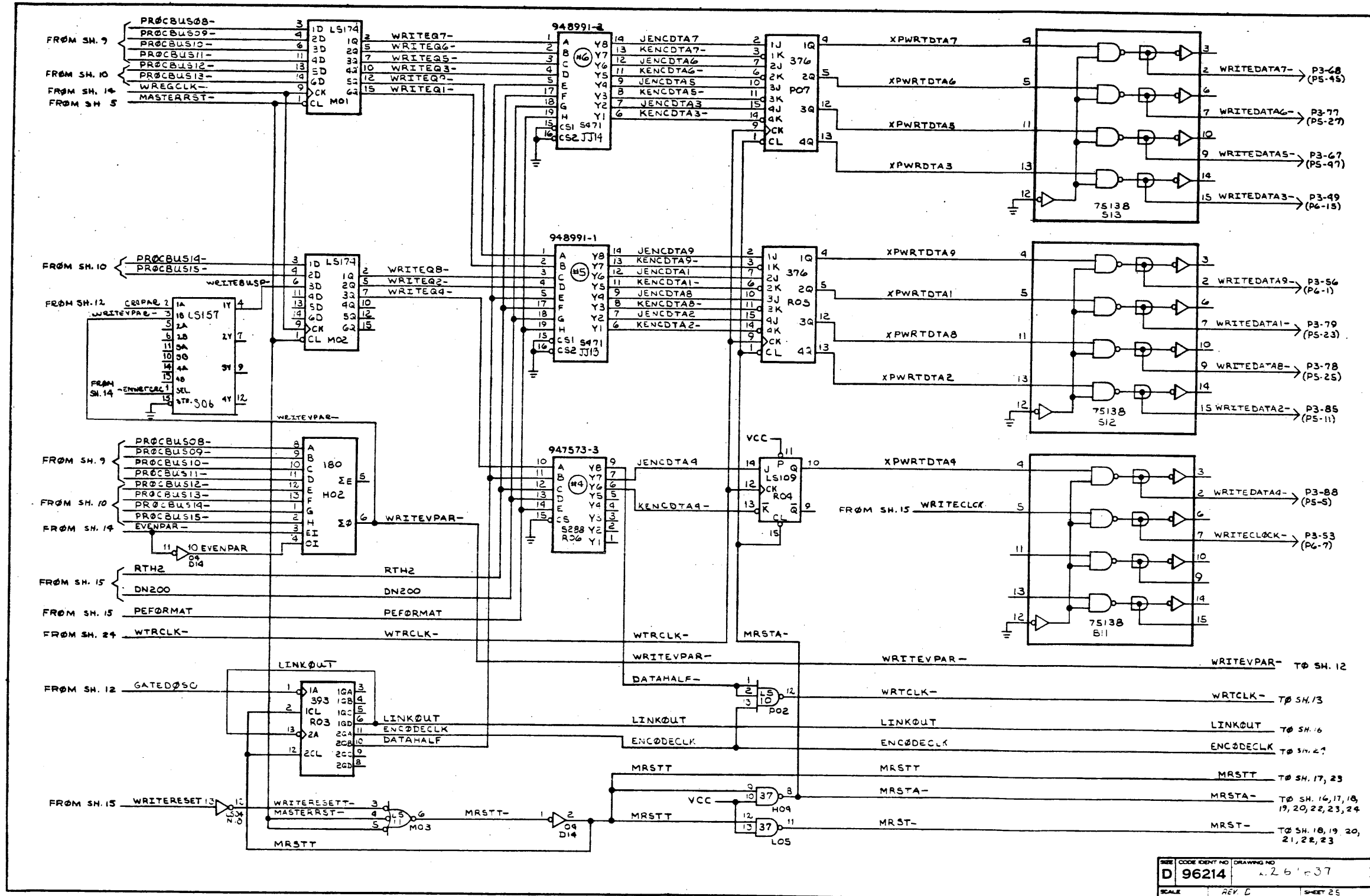








SIZE	CODE IDENT NO	DRAWING NO
D	96214	2261637
SCALE	REV D	SHEET 24



REV	CODE IDENT NO	DRAWING NO
D	96214	261037
SCALE	REV. C	SHEET 25

NEW CONNECTOR DUMPER CONNECTOR

TEST		M4	
PIN	SIGNAL	FROM SH.	
1	PROCBUS0-	7	
2	PROCBUS0-	7	
3	PROCBUS02-	7	
4	PROCBUS0-	7	
5	PROCBUS0-	8	
6	PROCBUS0-	8	
7	PROCBUS0-	8	
8	GND	26	
9	PROCBUS0-	8	
10	CLKRUN	2	
11			
12	MPCK:1-	2	
13	TRAP	5	
14	TESTRESET-	5	
15	RAMP1 SABLES-	14	
16	VCC	26	

TEST		F15	
PIN	SIGNAL	FROM SH.	
1	PROCBUS0-	9	
2	PROCBUS0-	9	
3	PROCBUS10-	9	
4	PROCBUS11-	9	
5	PROCBUS12-	10	
6	PROCBUS13-	10	
7	PROCBUS14-	10	
8	GND	26	
9	PROCBUS15-	10	
10	MCUADR8	6	
11	MCUADR7	6	
12	MCUADR1	6	
13	MCUADR0	6	
14	GND	26	
16	VCC	26	

TEST		F15	
PIN	SIGNAL	FROM SH.	
1			
2			
3	TAPEBUSYA-	10	
4	READSTAT-	7	
5	WRITECNTLA-	15	
6		15	
7			
8	GND	26	
12	WRITECNTL	15	
13	READSTAT-	7	
14	TAPEBUSY-	10	
16	VCC	26	

TEST		M14	
PIN	SIGNAL	FROM SH.	
1	MCUADR0	6	
2	MCUADR1	6	
3	MCUADR2	6	
4	MCUADR3	6	
5	MCUADR4	6	
6	MCUADR5	6	
7	MCUADR6	6	
8	GND	26	
9	MCUADR7	6	
10	MCUADR8	6	
11	CLKRUN	2	
12	MPCK:1-	2	
13	CLKT2-	2	
16	VCC	26	

TRANSPORT CONNECTORS

CONNECTOR P5

SIGNAL NAME	P5	FROM SH.
RPWD-	1	15
READDATA4-	3	24
WRITEDATA4-	5	25
RGO-	7	15
READDATA2-	9	26
WRITEDATA2-	11	25
READDATA9-	13	24
READDATA1-	15	24
RUNL-	17	15
READDATA6-	19	24
NOTSTATOUT-	21	24
WRITEDATA1-	23	25
WRITEDATA8-	25	25
WRITEDATA6-	27	25
SELECT1-	29	15
REWINDSTAT2-	31	9
SELECT3-	33	15
SELECT4-	35	15
VCL	37	26
VCC	39	26
READCLKOUT-	41	24
READDATA7-	43	24
WRITEDATA7-	45	25
WRITEDATA5-	47	25
READDATA5-	49	24

SIGNAL NAME	P5	FROM SH.
RREW-	2	15
GND	4	26
GND	6	26
READYSTAT-	8	7
GND	10	26
GND	12	26
GND	14	26
GND	16	26
READSTAT-	18	7
GND	20	26
GND	22	26
GND	24	26
GND	26	26
GND	28	26
REWINDSTAT1-	30	9
SELECT2-	32	15
REWINDSTAT3-	34	9
REWINDSTAT4-	36	9
VCC	38	26
VCC	40	26
GND	42	26
GND	44	26
GND	46	26
GND	48	26
GND	50	26

CONNECTOR P6

SIGNAL NAME	P6	FROM SH.
WRITEDATA9-	1	25
READDATA9-	3	24
SETWRITE-	5	15
WRITECLOCK-	7	25
SETREAD-	9	15
WRITERESET-	11	15
FPSTA-	13	5
WRITEDATA3-	15	25
READDATA3-	17	24
EDTSTATOUT-	19	24
GND	21	26
GND	23	26
GND	25	26
GND	27	26
GND	29	26
GND	31	26
GND	33	26
GND	35	26
TAPEBUSY-	37	10
WRITECNIL	39	15

SIGNAL NAME	P6	FROM SH.
GND	2	26
GND	4	26
GND	6	26
GND	8	26
GND	10	26
GND	12	26
GND	14	26
GND	16	26
GND	18	26
GND	20	26
GND	22	26
GND	24	26
GND	26	26
GND	28	26
GND	30	26
GND	32	26
GND	34	26
GND	36	26
GND	38	26
GND	40	26

TABLE I  
PLL CAPACITOR VALUES

DRIVE SPEED	C27 CAP VALUES
37.5 IPS	39 PF
25.0 IPS	68 PF
18.75 IPS	82 PF
12.5 IPS	100 PF

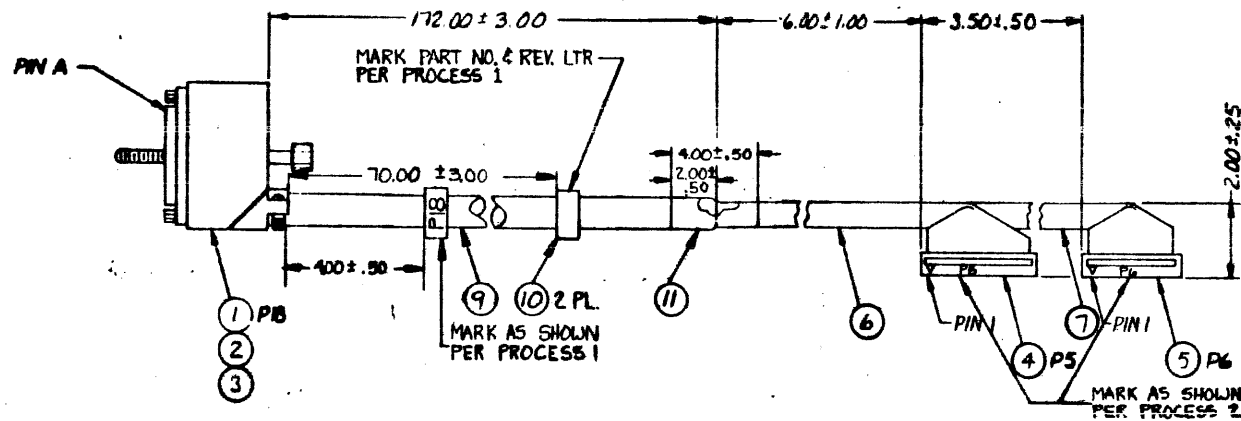
TABLE II  
XTAL FREQUENCY VALUES

DRIVE SPEED	XTAL
37.5 IPS	3.84 MHZ
25.0 IPS	2.56 MHZ
18.75 IPS	3.84 MHZ
12.5 IPS	2.56 MHZ

SIZE CODE IDENT NO DRAWING NO  
D 96214 7261637  
SCALE 1 P.P.T.E SHEET 27

NOTES:  
 1. ITEM 10 IN -0001 LM CONSISTS OF BULK CABLE ASSY MAT'L

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
A		CN417993 (C) I.V. 1 Page (1) UPDATED REV LEVEL BLK (2) DEF DES FOR ITEM #0001A WAS P18 (3) P18 ON BALLOON ITEM 10 WAS P18 (4) RELOCATED ITEM 10 ON CABLE	7-30-76	J. R. P.
B		CN417993 (C) I.V. 1 Page (1) REVISED PER EXTENSIVE ENGINEERING CHANGES	11/9/76	W. H. G.
C		CN419265 (B) C. Lengthwise (1) UPDATED REV LEVEL BLOCK	5-24-77	J. R. P.
D		CN432549 (C) S. L. H. (1) CREATED -5001 LM (2) ADDED ITEM 101 TO -0001 LM (3) ADDED NOTE 1 (4) ADDED PN BLOCK (5) UPDATED REV LEVEL	8-22-79	E. H. G.

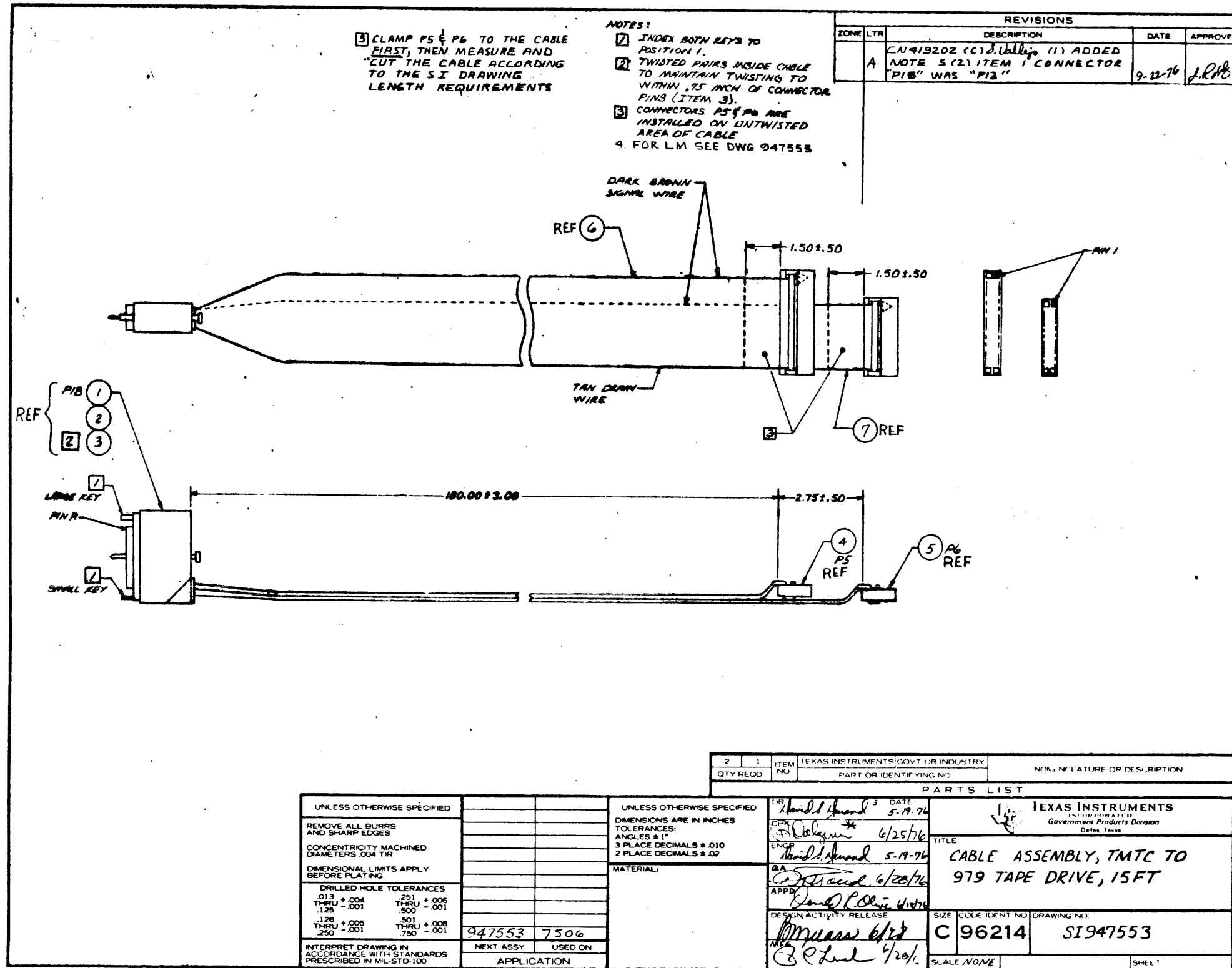


947553-5001	BULK CABLE ASSY MAT'L FOR -0001
1 947553-0001	CABLE ASSY, TMTC TO 979 TAPE DRIVE, 15 FT
PART NO.	DESCRIPTION

PROCESSES:  
 1. MARK PER F-100, METHOD VII, CLASS 12, COLOR BLACK, TYPE 6  
 2. MARK PER F-100, METHOD II, CLASS 1, HEIGHT .12, COLOR BLK.

REV LEVEL	WIRING LIST (947554-9901)	*	A	A	B	B
	ASSY (947553-0001)	*	A	B	C	D
UNLESS OTHERWISE SPECIFIED	REMOVE ALL BURRS AND SHARP EDGES					
CONCENTRICITY MACHINED DIAMETERS .004 TIR						
DIMENSIONAL LIMITS APPLY BEFORE PLATING						
DRILLED HOLE TOLERANCES						
0.13 THRU .125	+ .004 THRU - .001					
.126 THRU .250	+ .005 THRU - .001					
INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL STD 100						
APPLICATION	94757B	7506				
	NEXT ASSY	USED ON				

2	1	ITEM NO.	TEXAS INSTRUMENTS	GOVT OR INDUSTRY	NOMENCLATURE OR DESCRIPTION
QTY REQD		PART OR IDENTIFYING NO.			
PARTS LIST					
DR	Stadson	3	6-16-76	DATE	
CHK	Chalmers		6/26/76		
TRK	David Leonard		6-25-76		
APP	David Leonard		6/28/76		
DESIGN ACTIVITY RELEASE	Amussen		6/28		
SCALE	NONE				
TITLE	CABLE ASSEMBLY, TMTC TO 979 TAPE DRIVE, 15 FT				
SIZE	CODE IDENT NO.	DRAWING NO.			
C	96214	947553			





Cable Assembly, TMTC to 979 Tape Drive

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0947553-0001		REV D	
PRINT ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00001.000	EA		0231257-0051	CONNECTOR- RECP,120PIN WIRE CRIMP CONT.	-SEE DRAWING					
0001A					P18						
0002	00001.000	EA		0231257-0052	CONNECTOR- COVER ASSY,120PIN ELCO	-SEE DRAWING					
0004	00001.000	EA		0972697-0006	CONNECTOR,FLTCBL,50P,CBL MTG W/STR RLF						
0004A					P5						
0005	00001.000	EA		0972697-0005	CONNECTOR,FLTCBL,40P,CBL MTG W/STR RLF						
0005A					P6						
0008	REF	EA		0947554-9901	WIRE LIST,PT-TO-PT TMTC TO 979 XPORT						
0101	00001.000	EA		0947553-5001	BULK CABLE ASSEMBLY MATERIAL FOR -0001						

DRAFTSMAN	DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	
		<i>J. R. Kelly</i>	8-3-79			CABLE ASSY, TMTC TO 979 TAPE DRIVE, 15FT	
APPROV. ENG.	DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	
						7506	
						PART NUMBER LM0947553-0001	REV D

TEXAS INSTRUMENTS INCORPORATED		DATE 07/17/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0947553-5001		REV D	
PRINT ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0003	00090.000	EA		0227919-0002	CONTACT-REEL	ELC -60-8017-0323-0					
0006	00015.000	FT		0996128-0008	CABLE #28 AWG 7-STRAND TWISTED PAIRS FL	SSW - 455-248-50					
0007	00015.000	FT		0996128-0007	CABLE,FLAT,20 TWISTED PR,1.950 WIDE	SSW -455-248-40					
0009	00014.000	FT		0972435-0005	INSUL SLEEVING,3/4"ID ZIPPER TUBE PVC	ZIP -LTR-0750-63-20					
0010	00002.000	EA		0418201-0060	STRAP,MARKER,ADJUSTABLE,PLASTIC	QPL-MS-3368-1-98					
0011	00000.500	FT		0417177-0009	INSULATION SLEEVING BLK.750ID X.030THK	PTI -					

DRAFTSMAN	DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	
						BULK CABLE ASSEMBLY MATERIAL FOR -0001	
APPROV. ENG.	DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	
						PART NUMBER LM0947553-5001	REV D

APPLICATION		REVISIONS			
NEXT ASSY	USED ON	LTR	DESCRIPTION	DATE	APPROVED
947553	7506	A	CN419203 (C) ROMARK	9-23-76	<i>L. Roberts</i>
		B	CN419266 (C) <i>J. Moore</i>	5-17-77	<i>L. Roberts</i>


  

REV	DESCRIPTION	DATE	BY	APP'D


REV STATUS OF SHEETS	REV	1	2	3	4	5
	B B A A A					

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ANGLES ± 1° 3 PLACE DECIMAL ± .010 2 PLACE DECIMAL ± .02	DATE <i>David S. Howard 5-18-76</i>	 <b>TEXAS INSTRUMENTS</b> INCORPORATED Equipment Group Dallas, Texas	
	BY <i>David S. Howard 6/22/76</i>		
IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY	DATE <i>David S. Howard 5-18-76</i>	<b>WIRING LIST,</b> <b>TMTC/979 CABLE ASSY</b>	
INTERPRET DWG IN ACCORDANCE WITH MIL-STD-100	DATE <i>David S. Howard 6/22/76</i>		
CONTR NO	SIZE	CODE IDENT NO	DRAWING NO
	A	96214	947554
SCALE none			SHEET 1 of 5

WIRE NO.	DESCRIPTION	TOTAL LENGTH	SIGNATURE	COMPONENT CONNECTION FOR START STATION	COMPONENT CONNECTION FOR FINISH STATION	REMARKS	N/A LA ITEM NO.
1	28 AWG STRO BRN	AR	R FWD	P5 - 1	P10 - AF		6
2	TAN		RREW	2	AP		
3	RED		RD DAT 4	3	CY		
4	TAN		GND	4	CZ		
5	ORN		WRT DAT 4	5	H		
6	TAN		GND	6	J		
7	YEL		RGO	7	AJ		
8	TAN		RDY STAT	8	AL		
9	GRN		RD DAT 2	9	CU		
10	TAN		GND	10	CV		
11	BLU		WRT DAT 2	11	C		
12	TAN		GND	12	D		
13	PUR		RD DAT 8	13	DJ		
14	TAN		GND	14	DK		
15	GRY		RD DAT 1	15	CS		
16	TAN		GND	16	CT		
17	WHT		RUNL	17	AS		
18	TAN		GND	18	AT		
19	BLK		RD DAT 6	19	DC		
20	TAN		GND	20	DD		
21	BRN		BOT STAT	21	BJ		
22	TAN		GND	22	BK		
23	RED		WRT DAT 1	23	H		
24	28 AWG STRO TAN	AR	GND	P5 - 24	P10 - B		6

 <b>TEXAS INSTRUMENTS</b> INCORPORATED INDUSTRIAL PRODUCTS DIVISION HOUSTON, TEXAS	REV	B
	SHEET	2

WIRE NO.	DESCRIPTION	TOTAL LENGTH	SIGNATURE	COMPONENT CONNECTION FOR START STATION	COMPONENT CONNECTION FOR FINISH STATION	REMARKS	N/A LA ITEM NO.
25	28AWG	HR	WRT DAT 8	P5-25	P18-5		6
26	THN		GND	26	T		
27	YEL		WRT DAT 6	27	M		
28	THN		GND	28	N		
29	GRN		SELECT 1	29	AW		
30	THN		REW STAT 1	30	CD		
31	BLU		REW STAT 2	31	CF		
32	THN		SELECT 2	32	AY		
33	PUR		SELECT 3	33	BA		
34	THN		REW STAT 3	34	CJ		
35	GRY		SELECT 4	35	BC		
36	TAN		REW STAT 4	36	CL		
37	WHT		+5V	37	AN		
38	TAN		+5V	38	AN		
39	BLK		+5V	39	BH		
40	THN		+5V	40	BH		
41	BRN		RD CLK	41	CB		
42	TAN		GND	42	CC		
43	RED		RD DAT 7	43	DE		
44	THN		GND	44	DF		
45	ORN		WRT DAT 7	45	P		
46	THN		GND	46	R		
47	YEL		WRT DAT 5	47	K		
48	28AWG	AR	GND	P5-48	P18-L		6

**TEXAS INSTRUMENTS**  
INCORPORATED  
INDUSTRIAL PRODUCTS DIVISION  
HOUSTON, TEXAS

A

947554

SHEET 3

REV A

WIRE NO.	DESCRIPTION	TOTAL LENGTH	SIGNATURE	COMPONENT CONNECTION FOR START STATION	COMPONENT CONNECTION FOR FINISH STATION	REMARKS	N/A LA ITEM NO.
49	28AWG	AR	RD DAT 5	P5-49	P18-DA		6
50	THN		GND	P5-50	DB		6
51	BRN		WRT DAT 9	P6-1	V		7
52	THN		GND	2	W		
53	RED		RD DAT 9	3	DL		
54	TAN		GND	4	DM		
55	ORN		SET WRT	5	X		
56	THN		GND	6	Y		
57	YEL		WRT CLOCK	7	Z		
58	THN		GND	8	AA		
59	GRN		SET READ	9	BX		
60	THN		GND	10	BY		
61	BLU		WRT RESET	11	AD		
62	THN		GND	12	AE		
63	PUR		FPT STAT	13	AU		
64	THN		GND	14	AV		
65	GRY		WRT DAT 3	15	E		
66	TAN		GND	16	F		
67	WHT		RD DAT 3	17	CW		
68	TAN		GND	18	CX		
69	BLK		EOT STAT	19	BN		
70	THN		GND	20	P18-BP		
71	BRN		REFORMAT	21	SPARE		
72	28AWG	AR	GND	P6-22	SPARE		7

**TEXAS INSTRUMENTS**  
INCORPORATED  
DIGITAL SYSTEMS DIVISION  
HOUSTON, TEXAS

A

947554

SHEET 4

REV A

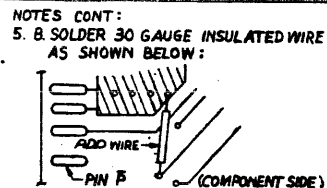
WIRE NO.	DESCRIPTION	TOTAL LENGTH	SIGNATURE	COMPONENT CONNECTION FOR START STATION	COMPONENT CONNECTION FOR FINISH STATION	REMARKS	N/A LM ITEM NO.
73	28AWG, RED	AR	GND	P6 - 23	P18 - DD		7
74	TAN		GND	24	P18 - CC		
75	ORN		FCIN	25	SPARE		
76	TAN		GND	26			
77	YEL		ERROR	27			
78	TAN		GND	28			
79	GRN		WRT CLK	29			
80	TAN		GND	30			
81	BLU		DATA TRU	31			
82	TAN		GND	32			
83	RUR		FMRK	33			
84	TAN		GND	34			
85	GRY		PEMARK	35			
86	TAN		GND	36			
87	WHT		DN200	37			
88	TAN		TAPEBUSY	38			
89	BLK		WRTCNTL	39			
90	28AWG, TAN	AR	RTH2	P6 - 40	SPARE		7



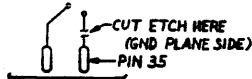
TEXAS INSTRUMENTS  
INCORPORATED  
DIGITAL SYSTEMS DIVISION  
HOUSTON, TEXAS

A 947554  
SHEET 6 REV A

6 MATERIAL ITEMS 516 TO BE CUT AT CENTER OF 2 INCH FLAT SECTION; OVERALL LENGTH TO BE AS SHOWN IN DIMENSIONAL TABLE. DIMENSION A IS NOMINAL AND IS FOR REFERENCE ONLY

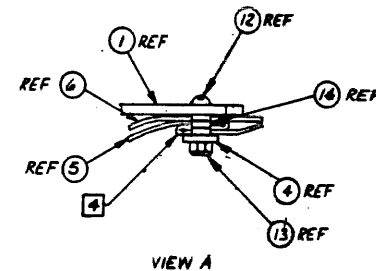
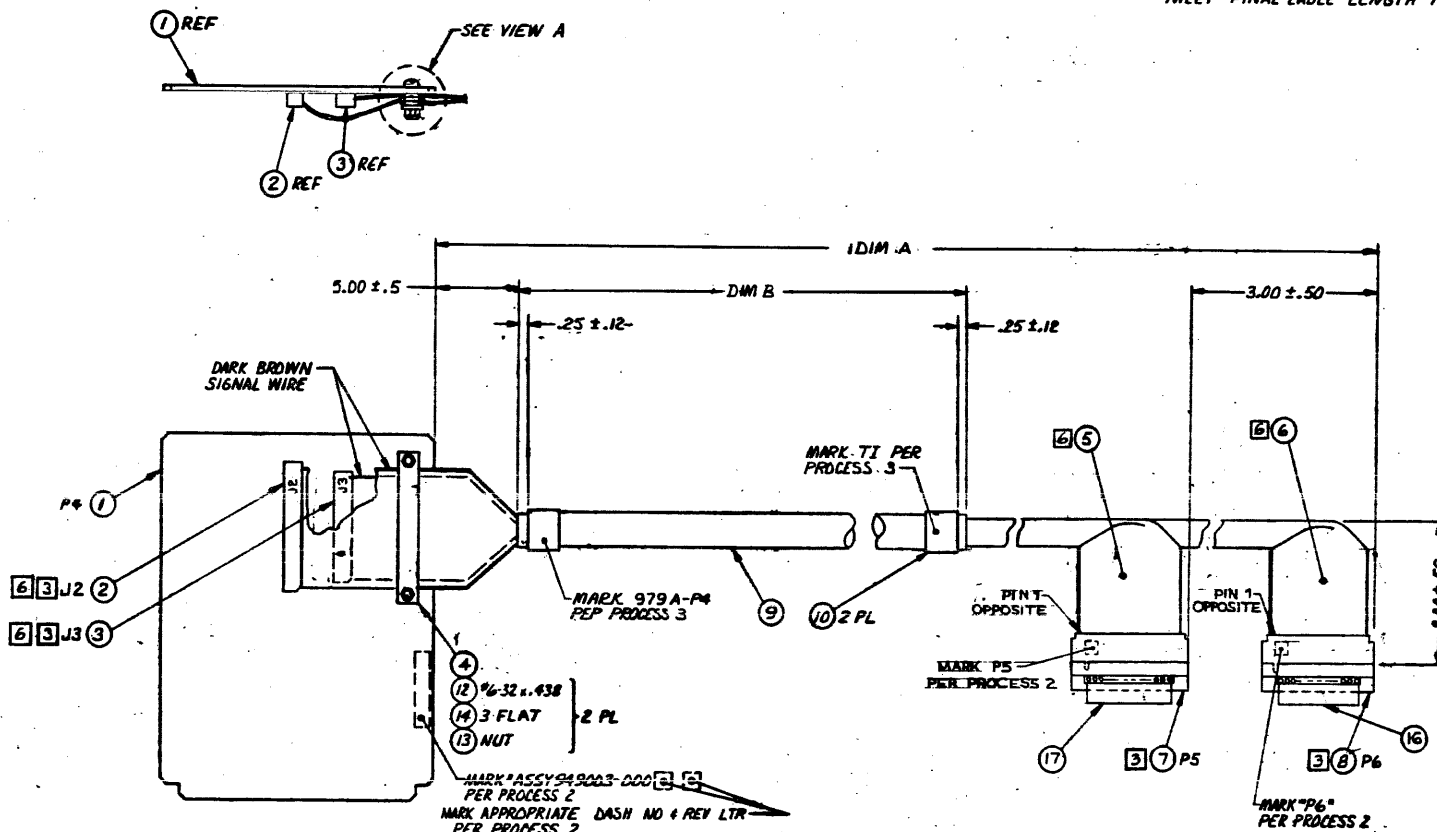


5. RERWORK INSTRUCTIONS FOR B AND BELDW REV. LEVEL PWB (948994-1). A. CUT ETCH BETWEEN PIN P1-35 AND THE ETCH FEED THROUGH AS BELOW:



NOTES:  
1. FOR ASSY INSTRUCTIONS SEE SI 949003  
2. CONNECTION FOR J2 TO P5 AND J3 TO P6 IS ONE TO ONE. EXAMPLE:  
PIN 1 OF J2 TO PIN 1 OF P5...  
PIN 1 OF J3 TO PIN 1 OF P6...  
3. J2, J3, P5 AND P6 ARE TO BE CONNECTED IN UNTWISTED AREAS OF FLAT CABLE (ITEM 5 AND 6)  
4. FOLD EXCESS CABLE (ITEM 5), IF NECESSARY, UNDER STRAIN RELIEF (ITEM 4) IN ORDER TO MEET FINAL CABLE LENGTH TOLERANCES

ZONE	LTR	DESCRIPTION	DATE	APPROVED
A		CN 419264 (B) 74. Applying (1) ADDED NOTE 5 (2) ADDED REV. LEVEL BLOCK	6-13-77	J.R.P.
B		CN 424816 (C) 74. Rev. (1) LM, ITEM 5 QTY WAS 15, ITEM 6 QTY WAS 15, & ITEM 9 QTY WAS 14 (2) DIM A 240.00 WAS 175.00 ± 3.00 & DIM 230.00 WAS 166.00 ± 6.00 (3) UPDATED REV LEVEL BLOCK	9-1-78	J.R.P.
C		CN 430779 (C) 22. Rev. (1) LM, ITEM 11 PN WAS 417177-5 (2) UPDATED REV LEVEL BLOCK	12-19-78	J.R.P.
D		CN 446571 (C) 22. Rev. (1) DIM A WAS 240.00 ± 12.00 (2) DIM B WAS 230.00 ± 6.00 (3) ADDED PIN TAP (4) DIM A -0002 LM (5) UPDATED REV LEVEL BLOCK	1-16-79	J.R.P.
E		CN 446560 (E) 22. Rev. (1) CHANGED PICTORIAL PER EXTENSIVE ENGINEER CHANGES (2) ADDED NOTE (3) UP-DATED REV LEV BLK (4) PROCESS 2 COLOR WAS BLACK (5) ON LM -11-2 CHGD P/N 1 DESCRIPTION OF ITEMS 2, 3, 7 & 8 (6) ON LM -11-2, ADDED ITEMS 16 & 17 (7) DELETED ITEM 11 ON LM -11-2 (8) ON LM -11-2, ITEM 9 P/N WAS 972435-5	4-4-79	E.W.J.
F		CN 448355 (C) 22. Rev. (1) IN EN, B-34 THE CONNECTORS P5 & P6 WERE ROTATED 180°	4-20-79	E.W.J.



PART NO	DESCRIPTION	DIM A	DIM B
949003-0002	CABLE ASSY, TMTc TO 979A TAPE DRIVE, 30 FT	360.00 ± 12.00	350.00 ± 6.00
949003-0001	CABLE ASSY, TMTc TO 979A TAPE DRIVE, 20 FT	240.00 ± 12.00	230.00 ± 6.00

REV LEVEL	PWB (948994-0001)	INTERCONNECT DIAG. (949007)	ASSY (949003)
	* B B B B B	* A A A A A	* A B C D E

PROCESSES:  
1. SOLDER PER F-127, METHOD I  
2. MARK PER F-100, METHOD II, CLASS 1, HEIGHT .12, COLOR WHITE  
3. MARK PER F-100, METHOD III, CLASS 12, COLOR BLACK, TYPE 6

QTY REQD	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION
1	1		949008 7506	CABLE ASSY, TMTc TO 979A TAPE DRIVE	
1	2		949008 7506		

DWN	DATE	APPROVED
J.R.P.	9-27-76	
A.C.	11-8-76	
H.R.	11-8-76	
J.R.P.	11-19-76	

SIZE	CODE IDENT NO	DRAWING NO
D	96214	949003

TEXAS INSTRUMENTS INCORPORATED		DATE 02/23/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0949003-0001		REV F #		
PRINT ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	0001.000	EA		0948994-0001	BOARD,PC,979A FLAT RIBBON INTERCONNECT							
0001A					P4							
0002	0001.000	EA		2210165-0004	HEADER,PADLEBD TO RIBBON CBL, 50 POS	000779-88213-8						
0002A					J2							
0003	0001.000	EA		2210165-0003	HEADER,PADLEBD TO RIBBON CABLE,40 POS	000779-88213-8						
0003A					J3							
0004	0001.000	EA		0949010-0001	STRAIN RELIEF							
0005	00020.000	FT		0996128-0008	CABLE #28 AWG 7-STRAND TWISTED PAIRS FL	SSW - 455-248-50						
0006	00020.000	FT		0996128-0007	CABLE,FLAT,20 TWISTED PR,1.950 WIDE	SSW -455-248-40						
0007	00001.000	EA		0996261-0008	CONNECTOR,RECEPT,50POS W/D STRAIN RELIEF	000779-86916-1						
0007A					P5							
0008	00001.000	EA		0996261-0007	CONN,RECEPTACLE, 40 POSITION	000779-88379-7						
0008A					P6							
0009	00019.000	FT		0972435-0105	INSUL SLEEVING, 3/4" ID ZIP TUBE,PVC	007240-ZT20750632080L						
0010	00002.000	EA		0418201-0060	STRAP,MARKER,ADJUSTABLE,PLASTIC	QPL-MS-3368-1-98						
0012	00002.000	EA		0972988-0029	SCREW 6-32 X .438 PAN HEAD CRES							
0013	00002.000	EA		0410963-0006	NUT# 6-32 SELF-LOCKING,HEX 250 F CRES							
0014	00006.000	EA		0411027-0806	WASHER .156 X .375 X .049 FLAT CRES	QPL - MS15755-806						
0015	PEF	EA		0949007-9901	DIAGRAM,INTER-CONNECTING,979A							
0016	00001.000	EA		2210259-0008	TAB,PULL,PLASTIC LOOP,40 POS, 2.000 L	000779-88450-9						
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	CABLE ASSY,TMTC TO 979A TAPE DRIVE,20 FT				
APPRO. MFG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO	7506	PART NUMBER	LM0949003-0001	REV	F #

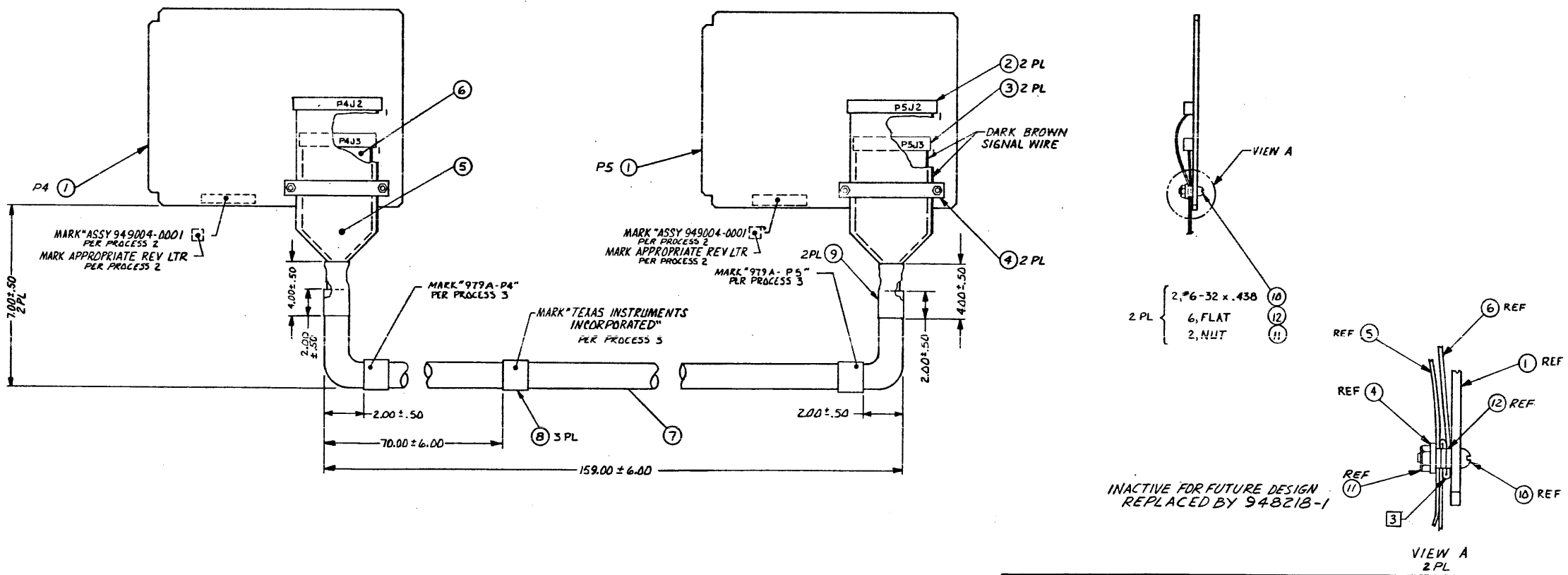
TEXAS INSTRUMENTS INCORPORATED		DATE 02/23/79		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM0949003-0001		REV F #		
PRINT ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0017	00001.000	EA		2210259-0009	TAB,PULL,PLASTIC LOOP, 2.500 L, 50 POS	000779-88450-9						
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	CABLE ASSY,TMTC TO 979A TAPE DRIVE,20 FT				
APPRO. MFG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO		PART NUMBER	LM0949003-0001	REV	F #

TEXAS INSTRUMENTS INCORPORATED		DATE 02/23/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0949003-0002		REV F #		
PRINT ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	0001.000	EA		0948994-0001	BOARD,PC,979A FLAT RIBBON INTERCONNECT							
0001A					P4							
0002	0001.000	EA		2210165-0004	HEADER,PADLEBD TO RIBBON CBL, 50 POS	000779-88213-8						
0002A					J2							
0003	0001.000	EA		2210165-0003	HEADER,PADLEBD TO RIBBON CABLE,40 POS	000779-88213-8						
0003A					J3							
0004	0001.000	EA		0949010-0001	STRAIN RELIEF							
0005	00030.000	FT		0996128-0008	CABLE #28 AWG 7-STRAND TWISTED PAIRS FL	SSW - 455-248-50						
0006	00030.000	FT		0996128-0007	CABLE,FLAT,20 TWISTED PR,1.950 WIDE	SSW -455-248-40						
0007	00001.000	EA		0996261-0008	CONNECTOR,RECEPT,50POS W/D STRAIN RELIEF	000779-86916-1						
0007A					P5							
0008	00001.000	EA		0996261-0007	CONN,RECEPTACLE, 40 POSITION	000779-88379-7						
0008A					P6							
0009	00029.000	FT		0972435-0105	INSUL SLEEVING, 3/4" ID ZIP TUBE,PVC	007240-ZT20750632080L						
0010	00002.000	EA		0418201-0060	STRAP,MARKER,ADJUSTABLE,PLASTIC	QPL-MS-3368-1-98						
0012	00002.000	EA		0972988-0029	SCREW 6-32 X .438 PAN HEAD CRES							
0013	00002.000	EA		0410963-0006	NUT# 6-32 SELF-LOCKING,HEX 250 F CRES							
0014	00006.000	EA		0411027-0806	WASHER .156 X .375 X .049 FLAT CRES	QPL - MS15795-806						
0015	REF	EA		0949007-9901	DIAGRAM,INTER-CONNECTING,979A							
0016	00001.000	EA		2210259-0008	TAB,PULL,PLASTIC LOOP,40 POS, 2.000 L	000779-88450-9						
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	CABLE ASSY,TMTC TO 979A TAPE DRIVE,30 FT				
APPRO. MFG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO		PART NUMBER	LM0949003-0002	REV	F #

TEXAS INSTRUMENTS INCORPORATED		DATE 02/23/79		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM0949003-0002		REV F #		
PRINT ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0017	00001.000	EA		2210259-0009	TAB,PULL,PLASTIC LOOP, 2.500 L, 50 POS	000779-88450-9						
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	CABLE ASSY,TMTC TO 979A TAPE DRIVE,30 FT				
APPRO. MFG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO		PART NUMBER	LM0949003-0002	REV	F #

NOTES:  
 1. FOR ASSY INSTRUCTIONS REFER TO SI 949004  
 2. CONNECTION FOR P4J2 TO P5J2 AND P4J3 TO P5J3 IS ONE TO ONE.  
 EXAMPLE:  
 PIN 1 OF P4J2 TO PIN 1 OF P5J2...  
 PIN 1 OF P4J3 TO PIN 1 OF P5J3...  
 3. FOLD EXCESS CABLE (ITEM 6), IF NECESSARY, UNDER STRAIN RELIEF (ITEM 4) IN ORDER TO MEET FINAL CABLE LENGTH TOLERANCES

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
A		CN 444945 (C) R (S) INACTIVATED THIS DRAWING	9-15-78	J. R. [Signature]



PROCESSES:  
 1. SOLDER PER F-127, METHOD D 1  
 2. MARK PER F-100, METHOD II, CLASS 1, HEIGHT .12, COLOR BLACK  
 3. MARK PER F-100, METHOD VII, CLASS 12, COLOR BLACK, TYPE 6

UNLESS OTHERWISE SPECIFIED		
REMOVE ALL BURRS AND SHARP EDGES		
CONCENTRICITY MACHINED		
DIAMETERS .010 FIR		
DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING		
IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY		
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100		
HOLE TOLERANCE		
013 - .004	125 - .005	251 - .006
THRU - .001	THRU - .001	THRU - .001
501 - .008	751 - .010	1001 - .012
THRU - .001	THRU - .001	THRU - .001
750 - .001	1000 - .001	2000 - .001
		APPLICATION

QTY	REGD	NO	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION
2							
1							
PARTS LIST							
				OWN	DATE	TEXAS INSTRUMENTS	
				CHG	9-27-76	INCORPORATED	
				ENGR	11-8-76	Equipment Group Dallas Texas	
				GA		CABLE ASSY, 979A	
				TRND		DAISY CHAIN	
				CONTR NO		SIZE	CODE IDENT NO
				DESIGN ACTIVITY RELEASE		D	96214
							949004
						SCALE	NO. 1
							SHEET



TEXAS INSTRUMENTS  
INCORPORATED

DATE 11/05/77

LIST OF MATERIAL

PAGE 1 of

PART NUMBER  
LM 949004 -0001 REV  
A

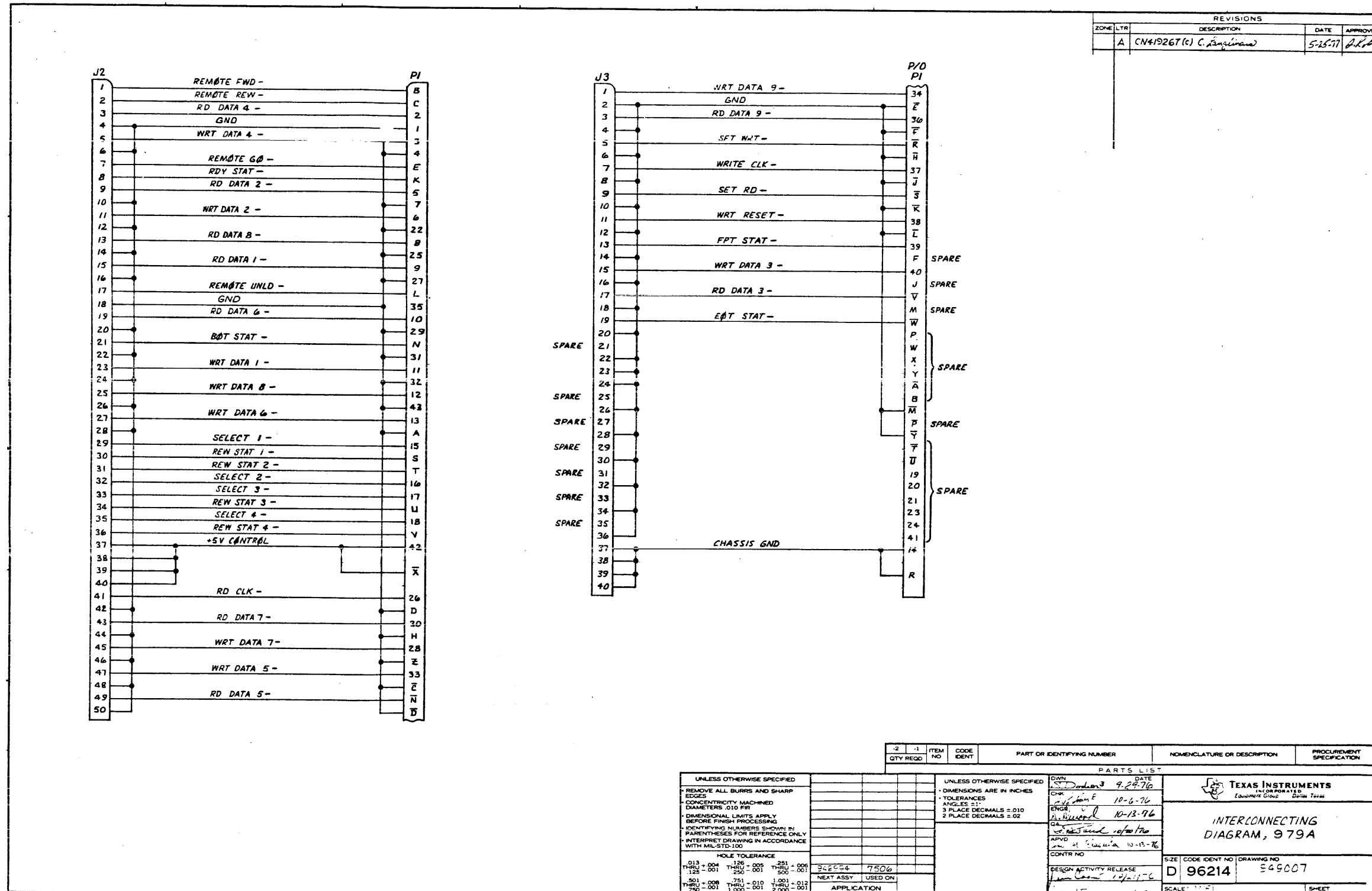
ITEM NUMBER	QUANTITY ASSEMBLY	UNIT OF MEASURE	QTY. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
0001	00002.000	EA		948994 -0001	BOARD,PC,979A FLAT RIBBON INTERCONNECT	
0001A					P4 P5	
0002	00002.000	EA		972696 -0004	CONNECTOR,PWB,50P,FIXED, FLAT CABLE	
0002A					P4J2 P5J2	
0003	00002.000	EA		972696 -0003	CONNECTOR,PWB,40P,FIXED, FLAT CABLE	
0003A					P4J3 P5J3	
0004	00002.000	EA		949010 -0001	STRAIN RELIEF	
0005	00015.000	FT		996128 -0008	CABLE #28 AWG 7-STRAND TWISTED PAIRS FL	SSW- 455-248-50
0006	00015.000	FT		996128 -0007	CABLE,FLAT,20 TWISTED PR,1.950 WIDE	SSW-455-248-40
0007	00015.000	FT		972435 -0005	INSUL SLEEVING,3/4"ID ZIPPER TUBE PVC	ZIP-ZTR-0750-63-2080
0008	00003.000	EA		418201 -0060	STRAP,MARKER,ADJUSTABLE,PLASTIC	QPL- MS3368-6-9
0009	00001.000	FT		417177 -0009	INSULATION SLEEVING BLK.750ID X.030THK	PTI-
0010	00004.000	EA		972988 -0029	SCREW 6-32 X .438 PAN HEAD CRFS	
0011	00004.000	EA		410963 -0006	NUT# 6-32 SELF-LOCKING,HEX 250 F CRFS	
0012	00012.000	EA		411027 -0806	WASHER .156 X .375 X .049 FLAT CRFS	QPL- MS15795-876
0013	REF	EA		949007 -9901	DIAGRAM,INTER-CONNECTING,979A	

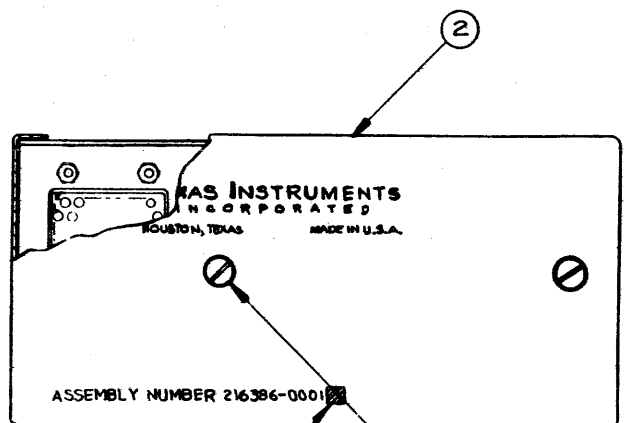
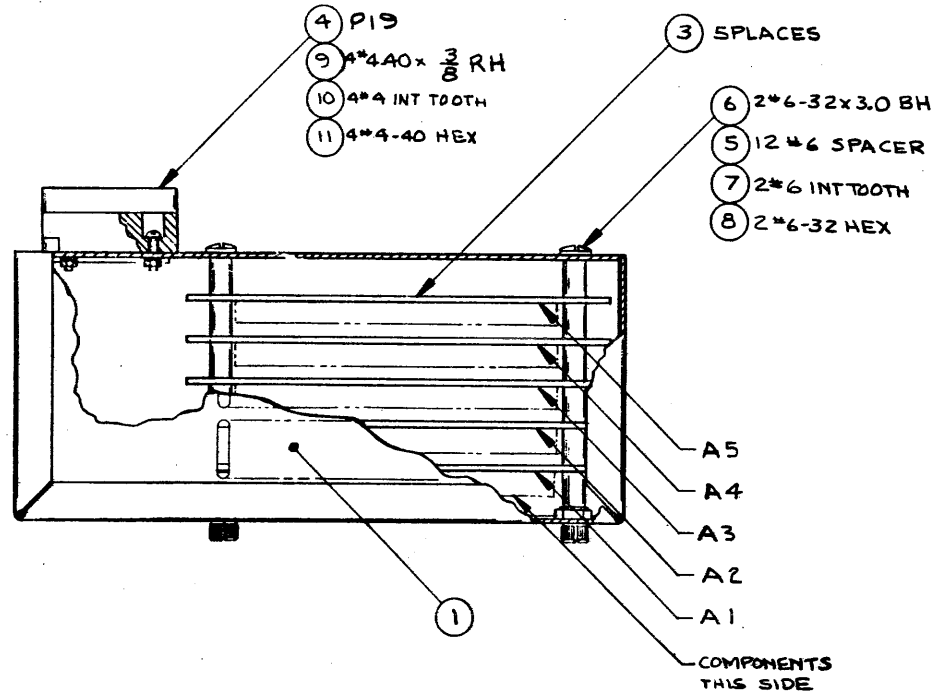
**INACTIVE FOR FUTURE DESIGN  
REPLACE BY 948218-1**

DRAFTSMAN	DATE	CHK. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE
		<i>J.R. Kelly</i>	11-8-76			CABLE ASSY,TMTC/979A DAISY CHAIN
APPROVED	DATE	APPR. PROJECT MANAGER	DATE	RELEASED	DATE	PROJECT NO.
						7506

PART NUMBER  
LM 949004 -0001 REV  
A





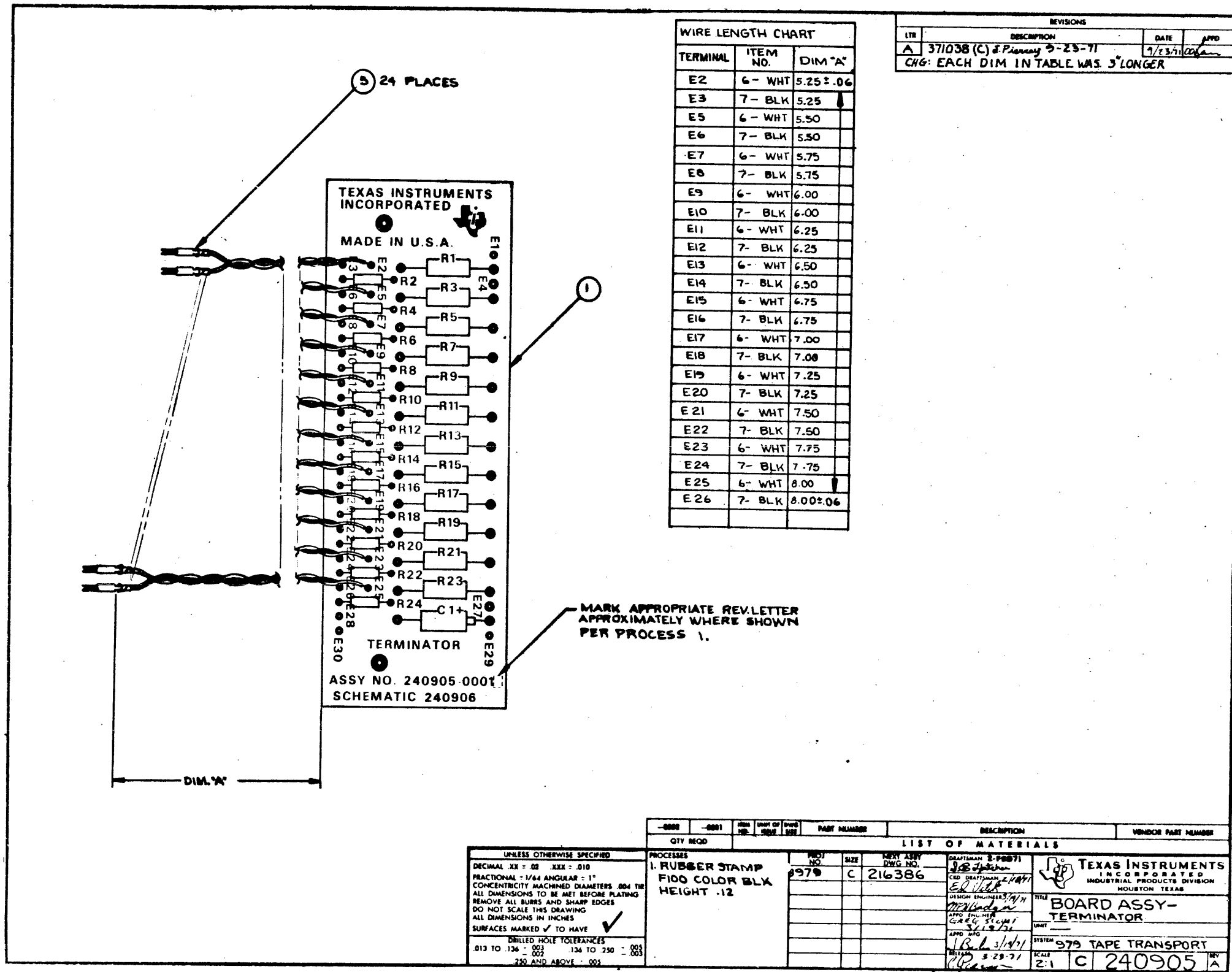


16 2\*6-32 CAP NUT  
 MARK APPROPRIATE REV. LETTER APPROX WHERE SHOWN PER PROCESS 1.

REVISIONS			
LTN	DESCRIPTION	DATE	APPD
A	371037 (C) 1 Planning 9-25-71	9/25/71	...
CHG: (1) ITEM 4 P/N WAS 231160-10 T5 (2) ZONE A2 ITEM (10) WAS 4*4 EXT TH (3) ZONE B2 REF. DESIG ORDER WAS REVERSED (4) ZONE C1 PIN ORIENTATION WAS			

UNLESS OTHERWISE SPECIFIED		PROCESSES		QTY REQD		ITEM NO.		UNIT OF MEAS		PART NUMBER		DESCRIPTION		VENDOR PART NUMBER	
DECIMAL .XX = .02 .XXX = .010		1. RUBBER STAMP		8979		-		-		-		-		-	
FRACTIONAL = 1/64 ANGULAR = 1°		F100 HEIGHT .12													
CONCENTRICITY MACHINED DIAMETERS .004 TIR		COLOR BLACK.													
ALL DIMENSIONS TO BE MET BEFORE PORTING															
REMOVE ALL BURRS AND SHARP EDGES															
DO NOT SCALE THIS DRAWING															
ALL DIMENSIONS IN INCHES															
SURFACES MARKED ✓ TO HAVE															
DRILLED HOLE TOLERANCES															
.013 TO .136 + .003															
.136 TO .250 + .005															
.250 AND ABOVE + .005															

TEXAS INSTRUMENTS INCORPORATED		DATE 04/26/75		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 216386-0001		REV A	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEAS	DMG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00001.000	EA		227120-0001	BRACKET COMPONENT MTG						
0002	00001.000	FA		227123-0001	COVER, COMPONENT MTG BRACKET						
0003	00005.000	EA		240905-0001	BOARD ASSY-TERMINATOR						
0003A					A1, A2, A3, A4, A5						
0004	00001.000	EA		231257-0050	CONNECTOR- PLUG 120PIN WIRE CRIMP CONT.	ELC-008016120-000-702					
0005	00012.000	EA		084813-0006	SPACER-#6 SCREW 1/4 ODX3/8 LG ALO1+00+03						
0006	00002.000	EA		235071-0020	SCREW 6-32X3 BINDER HEAD SST						
0007	00002.000	EA		411100-0071	LOCKWASHER #6 INTERNAL TOOTH CRES	QPL- MS35333-71					
0008	00002.000	EA		411115-0064	NUT, PLAIN 6-32 UNC-2B HFX CRES	QPL- MS35649-264					
0009	00004.000	EA		418293-0015	SCREW 4-40 UNC-2A X .375 PAN HEAD CRES	QPL- MS1957-15					
0010	00004.000	FA		411100-0070	LOCKWASHER #4 INTERNAL TOOTH CRES	QPL- MS35333-70					
0011	00004.000	EA		411115-0044	NUT, 4-40 HEXAGON CRES STEEL	MS -35649-244					
0012	00002.000	EA		232577-0000	NUT CAP NC-632 BLK. NYLON	WEC-					
0013	REF	FA		227040-9901	WIRE LIST, PT TO PT-TERMINATOR						
0014	AR	FT		538555-2299	WIRE 24 AWG HOOKUP UL-1609 RD/WH	EFT	QPL- M22759/18-24-92				
0015	AR	FT		538555-3299	WIRE 22 AWG HOOKUP UL-1609 RD/WH	EFT	QPL- M22759/18-22-92				
0016	AR	FT		538555-2099	WIRE 24 AWG HOOKUP UL-1609 BK/WH	EFT	QPL- M22759/18-24-90				
DRAFTSMAN		DATE	C'D. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE				
APPRO. MGR.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.				
							8979	FILED	LM 216386-0001	REV A	



TERMINAL	ITEM NO.	DIM "A"
E2	6- WHT	5.25±.06
E3	7- BLK	5.25
E5	6- WHT	5.50
E6	7- BLK	5.50
E7	6- WHT	5.75
E8	7- BLK	5.75
E9	6- WHT	6.00
E10	7- BLK	6.00
E11	6- WHT	6.25
E12	7- BLK	6.25
E13	6- WHT	6.50
E14	7- BLK	6.50
E15	6- WHT	6.75
E16	7- BLK	6.75
E17	6- WHT	7.00
E18	7- BLK	7.00
E19	6- WHT	7.25
E20	7- BLK	7.25
E21	6- WHT	7.50
E22	7- BLK	7.50
E23	6- WHT	7.75
E24	7- BLK	7.75
E25	6- WHT	8.00
E26	7- BLK	8.00±.06

REVISIONS			
LTN	DESCRIPTION	DATE	APPD
A	371038 (C) & Planning 9-23-71	9/23/71	[Signature]
CHG: EACH DIM IN TABLE WAS .3" LONGER			

MARK APPROPRIATE REV. LETTER APPROXIMATELY WHERE SHOWN PER PROCESS 1.

UNLESS OTHERWISE SPECIFIED  
 DECIMAL XX = .02 XXX = .010  
 FRACTIONAL - 1/64 ANGULAR - 1°  
 CONCENTRICITY MACHINED DIAMETERS .004 THE  
 ALL DIMENSIONS TO BE MET BEFORE PLATING  
 REMOVE ALL BURRS AND SHARP EDGES  
 DO NOT SCALE THIS DRAWING  
 ALL DIMENSIONS IN INCHES  
 SURFACES MARKED ✓ TO HAVE ✓  
 DRILLED HOLE TOLERANCES  
 .013 TO .134 - .003 .134 TO .250 - .003  
 .250 AND ABOVE - .001

QTY REQD	PROJ NO.	SIZE	NEXT ASSY DWG. NO.	DESCRIPTION	VENDOR PART NUMBER
1	979	C	216386	1. RUBBER STAMP FID0 COLOR BLK HEIGHT .12	

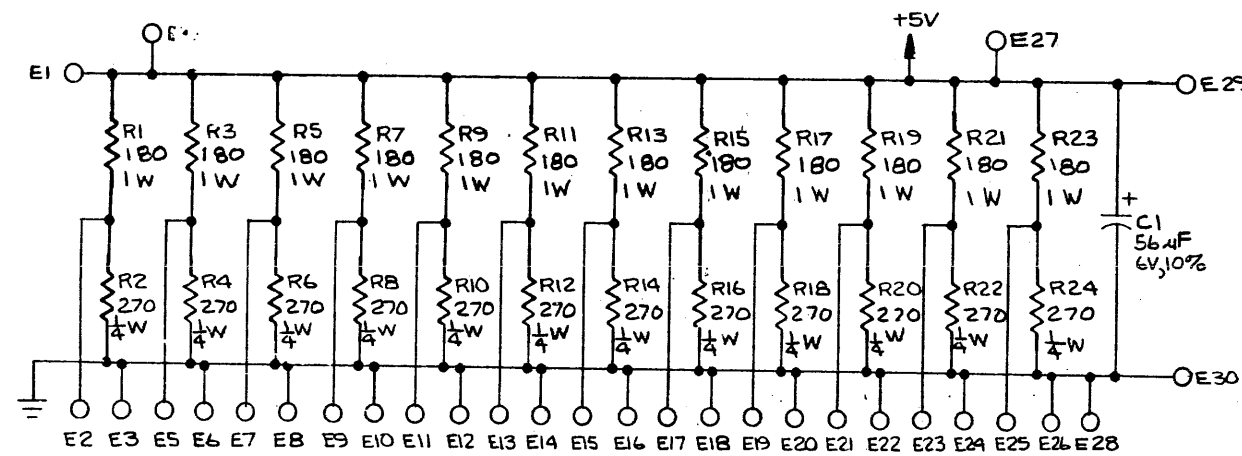
DRAFTSMAN E-POB71 J.B. Johnson CD DRAFTSMAN E-POB71 E.D. VICK DESIGN ENGINEER 3/1/71 APPROVING GREG STUMI 3/19/71 APPD NO I.B.L. 3/19/71 RELEASE 3-23-71 [Signature]	<b>TEXAS INSTRUMENTS</b> INCORPORATED INDUSTRIAL PRODUCTS DIVISION HOUSTON TEXAS TITLE <b>BOARD ASSY-          TERMINATOR</b> UNIT SYSTEM <b>979 TAPE TRANSPORT</b> SCALE <b>2:1</b> C 240905 A
---	--

TEXAS INSTRUMENTS INCORPORATED		DATE 04/26/75		LIST of MATERIAL		PAGE 1 of		PART NUMBER LM 240905-0001		REV A	
QTY	UNIT	DESCRIPTION	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00001.000	EA	240907-0001	BOARD, PW-TERMINATOR							
0002	00012.000	EA	972978-0083	RES FIX COMP 1.0 W 180 OHMS 5 %	QPL-RC32G181JS						
0002A				R1,R3,R5,R7,R9,R11,R13,R15							
0002B				R17,R19,R21,R23							
0003	00012.000	EA	972946-3051	RES FIX 270 OHM 5 % .25 W CARBON FILM	ROH- R-25						
0003A				R2,R4,R6,R8,R10,R12,R14,R16							
0003B				R18,R20,R22,R24							
0004	00001.000	EA	972924-0002	CAP FIX TANT SOLID 56 MFD 10 % 6 VOLT	QPL-M39003/1-2246						
0004A				C1							
0005	00024.000	EA	231554-1800	CONTACT CONNECTOR	ELC-60-8017-0313						
0006	AR	FT	538555-2999	WIRE 24 AWG HOOKUP UL-1609 WHITE	EFTE QPL- M22759/18-24-9						
0007	AR	FT	538555-2099	WIRE 24 AWG HOOKUP UL-1609 BK/WH	EFTE QPL- M22759/18-24-90						
0008	REF	EA	240906-9901	SCHEMATIC, ELECTRONIC DIAGRAM-TERMINATOR							

DATE	DATE	DATE	DATE	DATE	TITLE						
					BOARD ASSY-TERMINATOR						
DATE	DATE	DATE	DATE	DATE	PROJECT NO.	PART NUMBER		REV			
					8979	LM 240905-0001		A			

REVISIONS			
LTR	DESCRIPTION	DATE	APPD



NOTES:  
 UNLESS OTHERWISE SPECIFIED:  
 1. RESISTORS ARE 5%  
 2. RESISTANCE IS IN OHMS

QTY REQD	ITEM NO.	UNIT OF ISSUE	DRWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER

UNLESS OTHERWISE SPECIFIED		PROCESSES	POD NO.	SIZE	NET ASSY DRWG. NO.	DATE	DESIGNER	DATE	DESIGN ENGINEER	DATE	APPROVED	DATE	TITLE	SYSTEM	SCALE	DRWG. NO.
DECIMAL .XX = .02 .XXX = .010	FRACTIONAL = 1/64 ANGULAR = 1°	NONE	8979	C	240905	1-13-71	J. B. ...	1-27-71	M. ...	2/19/71	J. ...	2/19/71	DIAGRAM, ELECTRONIC SCHEMATIC - TERMINATOR	979 TAPE TRANSPORT		C 240906



WIRE NO.	DESCRIPTION	TOTAL LENGTH	SIGNATURE	COMPONENT CONNECTION FOR START STATION	COMPONENT CONNECTION FOR FINISH STATION	REMARKS	N/A LM ITEM NO.
25	#24 AWG STR UL APPD WHT		WTDA 3	A2-E2	P19-E	BOARD ASSY 240905-0001	3
26	BLK		GND	A2-E3	P19-F		
27	WHT		WTDA 7	A2-E5	P19-P		
28	BLK		GND	A2-E6	P19-R		
29	WHT		WTCLK	A2-E7	P19-Z		
30	BLK		GND	A2-E8	P19-AA		
31	WHT		RTMCO	A2-E9	P19-AJ		
32	BLK		GND	A2-E10	P19-AK		
33	WHT		FPTST	A2-E11	P19-AU		
34	BLK		GND	A2-E12	P19OAV		
35	WHT		SELT 4	A2-E13	P19-BC		
36	BLK		GND	A2-E14	P19-BD		
37	WHT		REWS 3	A2-E15	P19-CJ		
38	BLK		GND	A2-E16	P19-CK		
39	WHT		RDDA 2	A2-E17	P19-CU		
40	BLK		GND	A2-E18	P19-CV		
41	WHT		RDDA 6	A2-E19	P19-DC		
42	BLK		GND	A2-E20	P19-DD		
43	WHT		PEAP 1	A2-E21	P19-DN		
44	BLK		GND	A2-E22	P19-DP		
45	WHT		PEAP 5	A2-E23	P19-DX		
46	BLK		GND	A2-E24	P19-DY		
47	WHT		RDSTS	A2-E25	P19-EK		
48	#24 AWG STR UL APPD BLK		GND	A2-E26	P19-EL	BOARD ASSY 240905-0001	3

TEXAS INSTRUMENTS  
INCORPORATED  
INDUSTRIAL PRODUCTS DIVISION  
HOUSTON, TEXAS 77031

A 227040  
SHEET 3

WIRE NO.	DESCRIPTION	TOTAL LENGTH	SIGNATURE	COMPONENT CONNECTION FOR START STATION	COMPONENT CONNECTION FOR FINISH STATION	REMARKS	N/A LM ITEM NO.
49	#24 AWG STR UL APPD WHT		WTDA 2	A3-E2	P19-C	BOARD ASSY, 240905-0001	3
50	BLK		GND	A3-E3	P19-D		
51	WHT		WTDA 6	A3-E5	P19-M		
52	BLK		GND	A3-E6	P19-N		
53	WHT		SETWT	A3-E7	P19-X		
54	BLK		GND	A3-E8	P19-K		
55	WHT		RNFWD	A3-E9	P19-AF		
56	BLK		GND	A3-E10	P19-AH		
57	WHT		RMUNT	A3-E11	P19-AS		
58	BLK		GND	A3-E12	P19-AT		
59	WHT		SELT 3	A3-E13	P19-BA		
60	BLK		GND	A3-E14	P19-BB		
61	WHT		ROTST	A3-E15	P19-BJ		
62	BLK		GND	A3-E16	P19-BK		
63	WHT		REWS 2	A3-E17	P19-CF		
64	BLK		GND	A3-E18	P19-CH		
65	WHT		RDDA 1	A3-E19	P19-CS		
66	BLK		GND	A3-E20	P19-CT		
67	WHT		RDDA 5	A3-E21	P19-DA		
68	BLK		GND	A3-E22	P19-DB		
69	WHT		RDDA 9	A3-E23	P19-DL		
70	BLK		GND	A3-E24	P19-DM		
71	WHT		PEAP 9	A3-E25	P19-EH		
72	#24 AWG STR UL APPD BLK		GND	A3-E26	P19-EJ	BOARD ASSY, 240905-0001	3

TEXAS INSTRUMENTS  
INCORPORATED  
INDUSTRIAL PRODUCTS DIVISION  
HOUSTON, TEXAS

A 227040  
SHEET 4



WIRE NO.	DESCRIPTION	WIRE COLOR	SIGNATURE	COMPONENT CONNECTION FOR START STATION	COMPONENT CONNECTION FOR FINISH STATION	REMARKS	N/A LA ITEM NO.
73	#24 AWG STR UL APPD WHT	WHT	WTDA 1	A4-E2	P19-A	BOARD ASSY 240905-0001	3
74	BLK	BLK	GND	A4-E3	P19-B		
75	WHT	WHT	WTDA 9	A4-E5	P19-V		
76	BLK	BLK	GND	A4-E6	P19-W		
77	WHT	WHT	RMREV	A4-E7	P19-AP		
78	BLK	BLK	GND	A4-E8	P19-AR		
79	WHT	WHT	DN 556	A4-E9	P19-BT		
80	BLK	BLK	GND	A4-E10	P19-BZ		
81	WHT	WHT	SETRD	A4-E11	P19-BX		
82	BLK	BLK	GND	A4-E12	P19-BY		
83	WHT	WHT	REWS 5	A4-E13	P19-CP		
84	BLK	BLK	GND	A4-E14	P19-CR		
85	WHT	WHT	RDDA 8	A4-E15	P19-DJ		
86	BLK	BLK	GND	A4-E16	P19-DK		
87	WHT	WHT	PEAP 4	A4-E17	P19-DV		
88	BLK	BLK	GND	A4-E18	P19-DW		
89	WHT	WHT	PEAP 8	A4-E19	P19-EE		
90	#24 AWG UL APPD BLK	BLK	GND	A4-E20	P19-EF	BOARD ASSY 240905-0001	3
91							
92							
93							
94							
95							
96							

TEXAS INSTRUMENTS  
INCORPORATED  
INDUSTRIAL PRODUCTS DIVISION  
HOUSTON, TEXAS

A 227040  
SHEET 5

REV

WIRE NO.	DESCRIPTION	WIRE COLOR	SIGNATURE	COMPONENT CONNECTION FOR START STATION	COMPONENT CONNECTION FOR FINISH STATION	REMARKS	N/A LA ITEM NO.
97	#24 AWG TEF STR UL APPD WHT	WHT	WTDA 5	A5-E2	P19-K	BOARD ASSY 240905-0001	3
98	BLK	BLK	GND	A5-E3	P19-L		
99	WHT	WHT	WTRST	A5-E5	P19-AD		
100	BLK	BLK	GND	A5-E6	P19-AE		
101	WHT	WHT	SELT 2	A5-E7	P19-AY		
102	BLK	BLK	GND	A5-E8	P19-AZ		
103	WHT	WHT	DN 200	A5-E9	P19-BR		
104	BLK	BLK	GND	A5-E10	P19-BS		
105	WHT	WHT	REWS 1	A5-E11	P19-CD		
106	BLK	BLK	GND	A5-E12	P19-CE		
107	WHT	WHT	RDDA 4	A5-E13	P19-CY		
108	BLK	BLK	GND	A5-E14	P19-CZ		
109	WHT	WHT	PEAP 3	A5-E15	P19-DT		
110	BLK	BLK	GND	A5-E16	P19-DU		
111	WHT	WHT	PEAP 7	A5-E17	P19-EC		
112	#24 AWG UL APPD BLK	BLK	GND	A5-E18	P19-ED	BOARD ASSY 240905-0001	3
113							
114							
115							
116							
117							
118							
119							
120							

TEXAS INSTRUMENTS  
INCORPORATED  
INDUSTRIAL PRODUCTS DIVISION  
HOUSTON, TEXAS

A 227040  
SHEET 6

REV

WIRE NO.	DESCRIPTION	TOTAL LENGTH	SIGNATURE	COMPONENT CONNECTION FOR START STATION	COMPONENT CONNECTION FOR FINISH STATION	REMARKS	N/A LM ITEM NO.
121	#24 AWG RED TEF STR UL APPD		+5V	A1-E4	A2-E4		14
122			+5V	A2-E1	A3-E1		14
123			+5V	A3-E4	A4-E4		14
124			+5V	A4-E1	A5-E1		14
125			+5V	A1-E27	A2-E27		14
126			+5V	A2-E29	A3-E29		14
127			+5V	A3-E27	A4-E27		14
128	#24 AWG RED TEF STR UL APPD		+5V	A4-E29	A5-E29		14
129	#22 AWG RED TEF STR UL APPD		+5V	A1-E1	P19-AN		15
130	#22 AWG RED		+5V	A1-E29	P19-BH		15
131	#24 AWG BLK		GND	A1-E28	A2-E28		16
132	#24 AWG BLK		GND	A2-30	A3-30		16
133	#24 AWG BLK		GND	A3-28	A4-28		16
134	#24 AWG BLK TEF STR UL APPD		GND	A4-30	A5-30		16
135							
136							
137							
138							
139							
140							
141							
142							
143							
144							



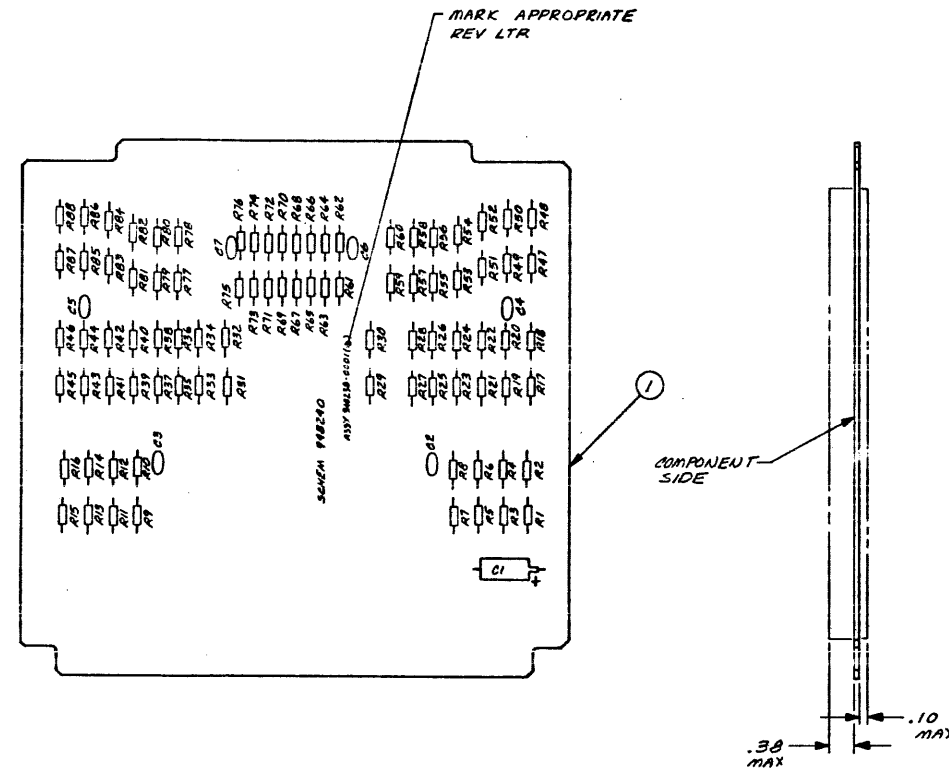
A

227040  
SHEET 7

REV  
A

NOTES:  
 [X] ITEM 7 IN -0001 LM CONSISTS OF COMPONENTS WHICH ARE AUTO INSERTED AND CONTAINED IN THE -5001 LM.  
 [X] 21-288 (ITEMS 9,5) OMITTED ON-0002.

ZONE	LTR	DESCRIPTION	DATE	APPROVED
A		CH424322(E) A. D. S. (1) UPDATED REV LEVEL BLOCK	4-10-77	J. L. P.
B		CH424321(C) A. D. S. (1) UPDATED REV LEVEL BLOCK	2-2-78	J. L. P.
C		CH424311(E) A. D. S. (1) UPDATED REV LEVEL BLOCK	6-1-77	J. L. P.
D		CH424311(E) A. D. S. (1) UPDATED REV LEVEL BLOCK	2-2-78	J. L. P.
E		CH424311(E) A. D. S. (1) UPDATED REV LEVEL BLOCK (1) ADDED ITEM 7 ON -0001 OF LM (2) ADDED LM -5001 FLAG NOTE (3) ADDED REV LEVEL BLOCK	7-11-78	J. L. P.
F		CH423500(D) A. D. S. (1) UPDATED REV LEVEL BLOCK 948238-0002 TO INCLUDE (2) ADDED NOTE (3) CREATE NEW -0002 LM (3) UPDATED REV LEVEL BLOCK	7-11-78	J. L. P.



948238-0002	TERMINATOR LADY CHAIN
948238-5001	AUTO INSERTED PART LIST FOR 948238-0001
948238-0001	SIGNAL TERMINATOR ASSY
PART NO	DESCRIPTION

REVISION LEVEL

PWB (948239-0001)	A	C	D	E	F
SCHEMATIC (948240-9901)	*	*	A	A	A
ASSY (948238-0001)	*	A	B	C	D

PROCESSES:  
 1. SOLDER PER F-127, METHOD I, AND/OR F-124  
 2. MARK PER F-100, METHOD I, CLASS 1, HEIGHT .09, COLOR BLACK

-2	-1	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION

UNLESS OTHERWISE SPECIFIED	UNLESS OTHERWISE SPECIFIED
REMOVE ALL BURRS AND SHARP EDGES	DIMENSIONS ARE IN INCHES
CONCENTRICITY MACHINED DIAMETERS .010 FIR	TOLERANCES
DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING	ANGLES 011
IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY	3 PLACE DECIMALS ± 0.10
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100	2 PLACE DECIMALS ± 0.02
HOLE TOLERANCE	
013 THRU +.004	126 THRU +.005
125 THRU -.001	250 THRU -.001
501 + .008	751 + .010
THRU -.001	THRU -.001
750	2 000

DATE	3/1/78
DWN	J. L. P.
CHK	J. L. P.
ENGR	J. L. P.
QA	J. L. P.
APPD	J. L. P.
CONTRD	J. L. P.
DESIGN ACTIVITY RELEASE	

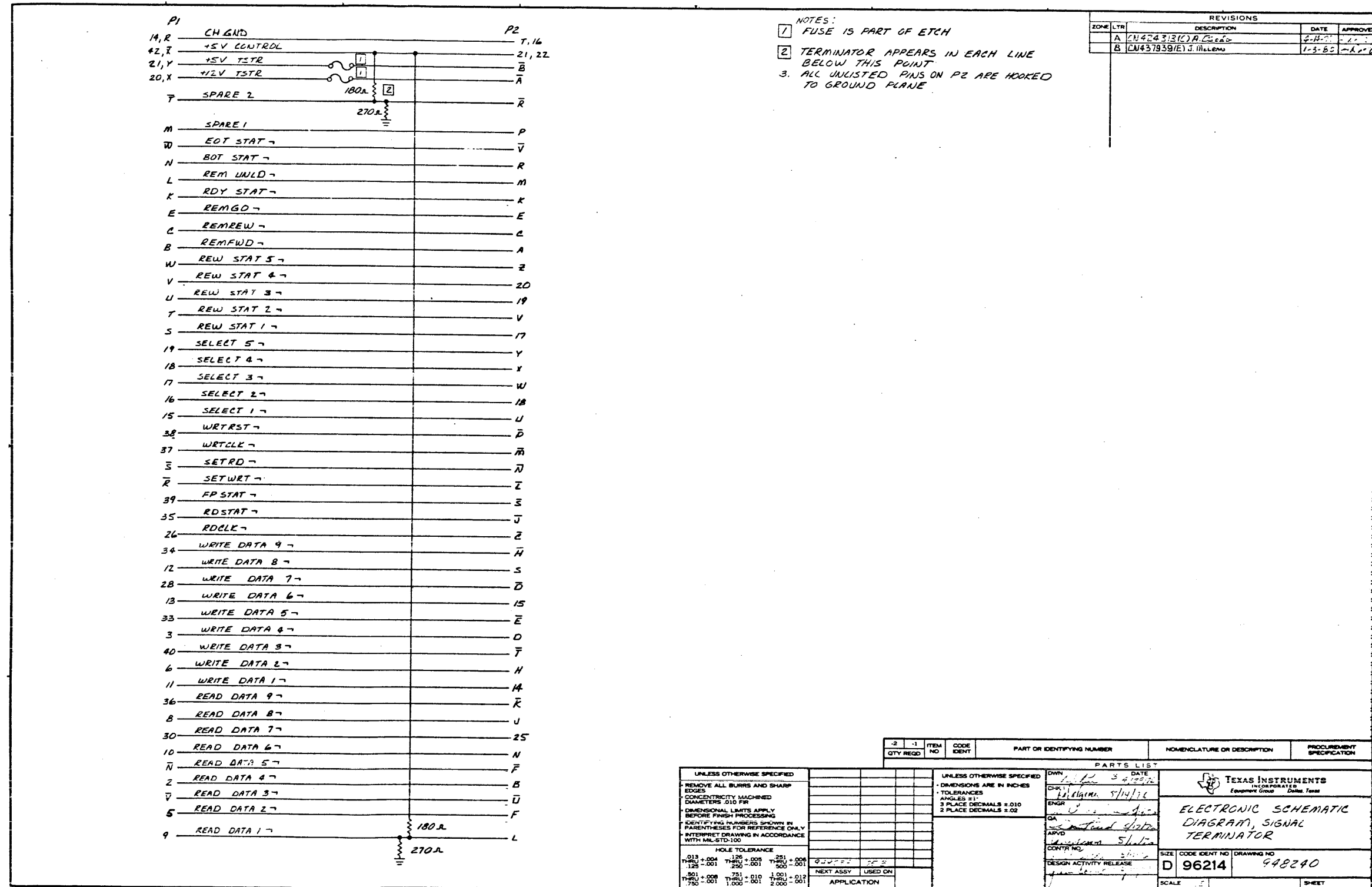
  

TEXAS INSTRUMENTS	
SIGNAL TERMINATOR ASSY (948238)	
SIZE CODE IDENT NO DRAWING NO	
D 96214 948238	
SCALE	SHEET

TEXAS INSTRUMENTS INCORPORATED		DATE 06/28/78		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LMP948238-0001		REV F	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00001.000	EA		0948239-0001	PWB,SIGNAL TERMINATOR						
0002	00001.000	EA		0972924-0002	CAP FIX TANT SOLID 56 MFD 10 % 6 VOLT	QPL	-M39303/1-2246				
0002A					C1						
0003	00006.000	EA		0532736-0002	CAP FIX CERAMIC .02 MF 20/80% 25 VOLT	CRL	- 23DJ60E203ZAC				
0003A					C2 C3 C4 C5 C6 C7						
0006	RFF	EA		0948240-9901	SCHEMATIC DIAGRAM,SIGNAL TERMINATOR						
0007	00001.000	EA		0948238-5001	AUTO INSERTED PARTS LIST FOR 948238-0001						
DRAFTSMAN		DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE				
			<i>J.R. [Signature]</i>	06-28-78			SIGNAL TERMINATOR ASSY,COMPLETE				
APPD. ENG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.				
							7513				
								PART NUMBER		REV	
								LMP948238-0001		F	

TEXAS INSTRUMENTS INCORPORATED		DATE 06/28/78		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LMP948238-0002		REV F	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00001.000	EA		0948239-0001	PWB,SIGNAL TERMINATOR						
0002	00001.000	EA		0972924-0002	CAP FIX TANT SOLID 56 MFD 10 % 6 VOLT	QPL	-M39303/1-2246				
0002A					C1						
0003	00006.000	EA		0532736-0002	CAP FIX CERAMIC .02 MF 20/80% 25 VOLT	CRL	- 23DJ60E203ZAC				
0003A					C2 C3 C4 C5 C6 C7						
0006	REF	EA		0948240-9901	SCHEMATIC DIAGRAM,SIGNAL TERMINATOR						
DRAFTSMAN		DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE				
							SIGNAL TERMINATOR ASSY,DAISY CHAIN				
APPD. ENG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.				
								PART NUMBER		REV	
								LMP948238-0002		F	

TEXAS INSTRUMENTS INCORPORATED		DATE 06/28/78		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LMP948238-5001		REV F	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0004	00044.000	EA		0972946-0051	RES FIX 270 OHM 5 % .25 W CARBON FILM	RDH	- R-25				
0004A					R1 R3 R5 R7 R9 P11 R13 R15						
0004B					R17 R19 R21 R23 R25 R27 R29						
0004C					R31 R33 R35 R37 R39 R41 R43						
0004D					R45 R47 R49 R51 R53 R55 R57						
0004E					R59 R61 R63 R65 R67 R69 R71						
0004F					R73 R75 R77 R79 R81 R83 R85						
0004G					R87						
0005	00044.000	EA		0972946-0047	RES FIX 180 OHM 5 % .25 W CARBON FILM	RDH	- R-25				
0005A					R2 R4 R6 R8 R10 R12 R14 R16						
0005B					R18 R20 R22 R24 R26 R28 R30						
0005C					P32 R34 R36 R38 R40 R42 R44						
0005D					R46 R48 R50 R52 R54 R56 R58						
0005E					F60 R62 F64 F66 F68 F70 F72						
0005F					R74 R76 R78 R80 R82 R84 R86						
0005G					R88						
DRAFTSMAN		DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE				
							AUTO INSERTED PARTS LIST FOR 948238-0001				
APPD. ENG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.				
								PART NUMBER		REV	
								LMP948238-5001		F	



- NOTES:
- 1 FUSE IS PART OF ETCH
  - 2 TERMINATOR APPEARS IN EACH LINE BELOW THIS POINT
  3. ALL UNLISTED PINS ON P2 ARE HOOKED TO GROUND PLANE

REVISIONS			
ZONE	LTR	DESCRIPTION	DATE
A		CH 424 3131C) A. C. C. C.	4-18-50
B		CH 437839(E) J. M. L. L. E. N. U.	1-3-50

QTY	REQD	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION								
<p>UNLESS OTHERWISE SPECIFIED</p> <p>REMOVE ALL BURRS AND SHARP EDGES</p> <p>CONCENTRICITY MACHINED BEFORE FINISH PROCESSING</p> <p>DIMENSIONAL LIMITS APPLY</p> <p>IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY</p> <p>INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100</p> <p>HOLE TOLERANCE</p> <table border="1"> <tr> <td>.013 +.004</td> <td>.125</td> <td>.005</td> <td>.251 +.006</td> </tr> <tr> <td>THRU -.001</td> <td>THRU .500</td> <td>THRU .001</td> <td>THRU .001</td> </tr> </table>							.013 +.004	.125	.005	.251 +.006	THRU -.001	THRU .500	THRU .001	THRU .001
.013 +.004	.125	.005	.251 +.006											
THRU -.001	THRU .500	THRU .001	THRU .001											
<p>UNLESS OTHERWISE SPECIFIED</p> <p>DIMENSIONS ARE IN INCHES</p> <p>TOLERANCES</p> <p>ANGLES ±1°</p> <p>3 PLACE DECIMALS ±.010</p> <p>2 PLACE DECIMALS ±.02</p>														
<p>DATE: 5/14/50</p> <p>ENGR: [Signature]</p> <p>APPROVED: [Signature]</p> <p>CONTR NO:</p> <p>DESIGN ACTIVITY RELEASE:</p>				<p>TEXAS INSTRUMENTS INCORPORATED</p> <p>Equipment Group Dallas, Texas</p> <p>ELECTRONIC SCHEMATIC DIAGRAM, SIGNAL TERMINATOR</p> <p>SIZE: D 96214</p> <p>DRAWING NO: 948240</p>										
<p>SCALE: 1" = 1"</p> <p>SHEET: 1 OF 1</p>														

PROJ NO.	SIZE	NEXT ASSY DWG NO.	REVISIONS		
LTR	DESCRIPTION	DATE	APPD		
8979	C	216404	A	369974 (C) 4/3/72 D. Wilson	
				DELETED: 1.) SHT. 5 WIRES #17 THRU #24. 2.) SHT. 6 WIRES #1 THRU #10.	
REV	SUPL SHEET	REV	A A A A A A		
REV	SHEET	SHEET	1 2 3 4 5 6		
DR1-6-71	APPD 1/22/71	TITLE	WIRE LIST- POINT-TO-POINT INTERCONNECTING CABLE		
CKD 122 JAN 71	APPD		979 TAPE TRANSPORT		
ENGR GREG SOAT 1/22/71	RELEASE 1-25-71	SCALE	SIZE	REV	
		NONE	A	216357	A
				SHEET 1 OF 6	

WIRE NO.	DESCRIPTION	TOTAL LENGTH	SIGNATURE	COMPONENT CONNECTION FOR START STATION	COMPONENT CONNECTION FOR FINISH STATION	REMARKS	N/A ITEM NO.
1	#22 WHT PVC	8	WT DA 1	P18-A	P19-A		9
2	BLK	8	GND	B	B		8
3	WHT	8	WT DA 2	C	C		9
4	BLK	8	GND	D	D		8
5	WHT	8	WT DA 3	E	E		9
6	BLK	8	GND	F	F		8
7	WHT	8	WT DA 4	H	H		9
8	BLK	8	GND	J	J		8
9	WHT	8	WT DA 5	K	K		9
10	BLK	8	GND	L	L		8
11	WHT	8	WT DA 6	M	M		9
12	BLK	8	GND	N	N		8
13	WHT	8	WT DA 7	P	P		9
14	BLK	8	GND	R	R		8
15	WHT	8	WT DA 8	S	S		9
16	BLK	8	GND	T	T		8
17	WHT	8	WT DA 9	V	V		9
18	BLK	8	GND	W	W		8
19	WHT	8	SET WRITE	X	X		9
20	BLK	8	GND	Y	Y		8
21	WHT	8	WRITE CLK	Z	Z		9
22	BLK	8	GND	AA	AA		8
23	WHT	8	WRITE RESET	AD	AD		9
24	#22 BLK PVC	8	GND	P18-AE	P19-AE		8

<b>TEXAS INSTRUMENTS</b> INCORPORATED INDUSTRIAL PRODUCTS DIVISION HOUSTON, TEXAS		<b>A</b> 216357 SHEET 2	REV <b>A</b>
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WIRE NO.	DESCRIPTION	TOTAL LENGTH	SIGNATURE	COMPONENT CONNECTION FOR START STATION	COMPONENT CONNECTION FOR FINISH STATION	REMARKS	N/A LM ITEM NO.
1	#22 WHT PVC	8	FORWARD	P18 - AF	P19 - AF		9//
2	▲ BLK	8	GND	▲ -AH	▲ -AH		9//
3	WHT	8	GO	-AJ	-AJ		9//
4	BLK	8	GND	-AK	-AK		8//
5	▼ WHT	8	RDY STA	-AL	-AL		9//
6	#22 BLK	8	GND	-AM	-AM		9//
7	#18 RED		+5V FROM CONTR	-AN	-AN		7//
8	#22 WHT	8	REWIND	-AP	-AP		9//
9	▲ BLK	8	GND	▲ -AR	▲ -AR		8//
10	WHT	8	UNLOAD	-AS	-AS		9//
11	BLK	8	GND	-AT	-AT		8//
12	WHT	8	F.P. STA.	-AU	-AU		9//
13	BLK	8	GND	-AV	-AV		8//
14	WHT	8	SELECT 1	-AW	-AY		9//
15	BLK	8	GND	-AX	-AZ		8//
16	WHT	8	SELECT 2	-AY	-BA		9//
17	BLK	8	GND	-AZ	-BB		8//
18	WHT	8	SELECT 3	-BA	-BC		9//
19	BLK	8	GND	-BB	-BD		8//
20	WHT	8	SELECT 4	-BC	-BE		9//
21	BLK	8	GND	-BD	-BF		8//
22	▼ WHT	8	SELECT 5	-BE	-AW		9//
23	#22 BLK	8	GND	▼ -BF	▼ -AX		8//
24	#18 RED PVC		+5 FROM CONTR	P19 - BH	P19 - BH		7//

TEXAS INSTRUMENTS  
INCORPORATED  
INDUSTRIAL PRODUCTS DIVISION  
HOUSTON, TEXAS

A 216357  
SHEET 3 REV A

WIRE NO.	DESCRIPTION	TOTAL LENGTH	SIGNATURE	COMPONENT CONNECTION FOR START STATION	COMPONENT CONNECTION FOR FINISH STATION	REMARKS	N/A LM ITEM NO.
1	#22 WHT PVC	8	BOT STA	P18 - BJ	P19 - BJ		9//
2	▲ BLK	8	GND	▲ -BK	▲ -BK		8//
3	WHT	8	EOT STA	-BN	-BN		9//
4	BLK	8	GND	-BP	-BP		8//
5	WHT	8	200 DENS	-BR	-BR		9//
6	BLK	8	GND	-BS	-BS		8//
7	WHT	8	556 DENS	-BT	-BT		9//
8	BLK	8	GND	-BZ	-BZ		8//
9	WHT	8	SET READ	-BX	-BX		9//
10	BLK	8	GND	-BY	-BY		8//
11	WHT	8	READ CLK	-CB	-CB		9//
12	BLK	8	GND	-CC	-CC		8//
13	WHT	8	REWIND STA 1	-CD	-CF		9//
14	BLK	8	GND	-CE	-CH		8//
15	WHT	8	REWIND STA 2	-CF	-CJ		9//
16	BLK	8	GND	-CH	-CK		8//
17	WHT	8	REWIND STA 3	-CJ	-CL		9//
18	BLK	8	GND	-CK	-CM		8//
19	WHT	8	REWIND STA 4	-CL	-CP		9//
20	BLK	8	GND	-CM	-CR		8//
21	WHT	8	REWIND STA 5	-CP	-CD		9//
22	BLK	8	GND	-CR	-CE		8//
23	▼ WHT	8	RD DA 1	▼ -CS	▼ -CS		9//
24	#22 BLK PVC		GND	P18 - CT	P19 - CT		8//

TEXAS INSTRUMENTS  
INCORPORATED  
INDUSTRIAL PRODUCTS DIVISION  
HOUSTON, TEXAS

A 216357  
SHEET + REV A

WIRE NO.	DESCRIPTION	TOTAL LENGTH	SIGNATURE	COMPONENT CONNECTION FOR START STATION	COMPONENT CONNECTION FOR FINISH STATION	REMARKS	N/A LM ITEM NO.
1	#22 WHT PVC	8	RD DA 2	P18-CU	P19-CU		9//
2	▲ BLK		GND	-CV	-CV		8//
3	WHT	8	RD DA 3	-CW	-CW		9//
4	BLK		GND	-CX	-CX		8//
5	WHT	8	RD DA 4	-CY	-CY		9//
6	BLK		GND	-CZ	-CZ		8//
7	WHT	8	RD DA 5	-DA	-DA		9//
8	BLK		GND	-DB	-DB		8//
9	WHT	8	RD DA 6	-DC	-DC		9//
10	BLK		GND	-DD	-DD		8//
11	WHT	8	RD DA 7	-DE	-DE		9//
12	BLK		GND	-DF	-DF		8//
13	WHT	8	RD DA 8	-DJ	-DJ		9//
14	BLK		GND	-DK	-DK		8//
15	WHT	8	RD DA 9	-DL	-DL		9//
16	BLK		GND	-DM	-DM		8//
17	WHT	8	PE AMPL 1	-DA	-DA		9//
18	BLK		GND	-DR	-DR		8//
19	WHT	8	PE AMPL 2	-DR	-DR		9//
20	BLK		GND	-DS	-DS		8//
21	WHT	8	PE AMPL 3	-DT	-DT		9//
22	BLK		GND	-DU	-DU		8//
23	WHT	8	PE AMPL 4	-DV	-DV		9//
24	#22 BLK PVC	8	GND	P18-DW	P19-DW		8//

TEXAS INSTRUMENTS  
INCORPORATED  
INDUSTRIAL PRODUCTS DIVISION  
HOUSTON, TEXAS

A 216357  
SHEET 5

REV A

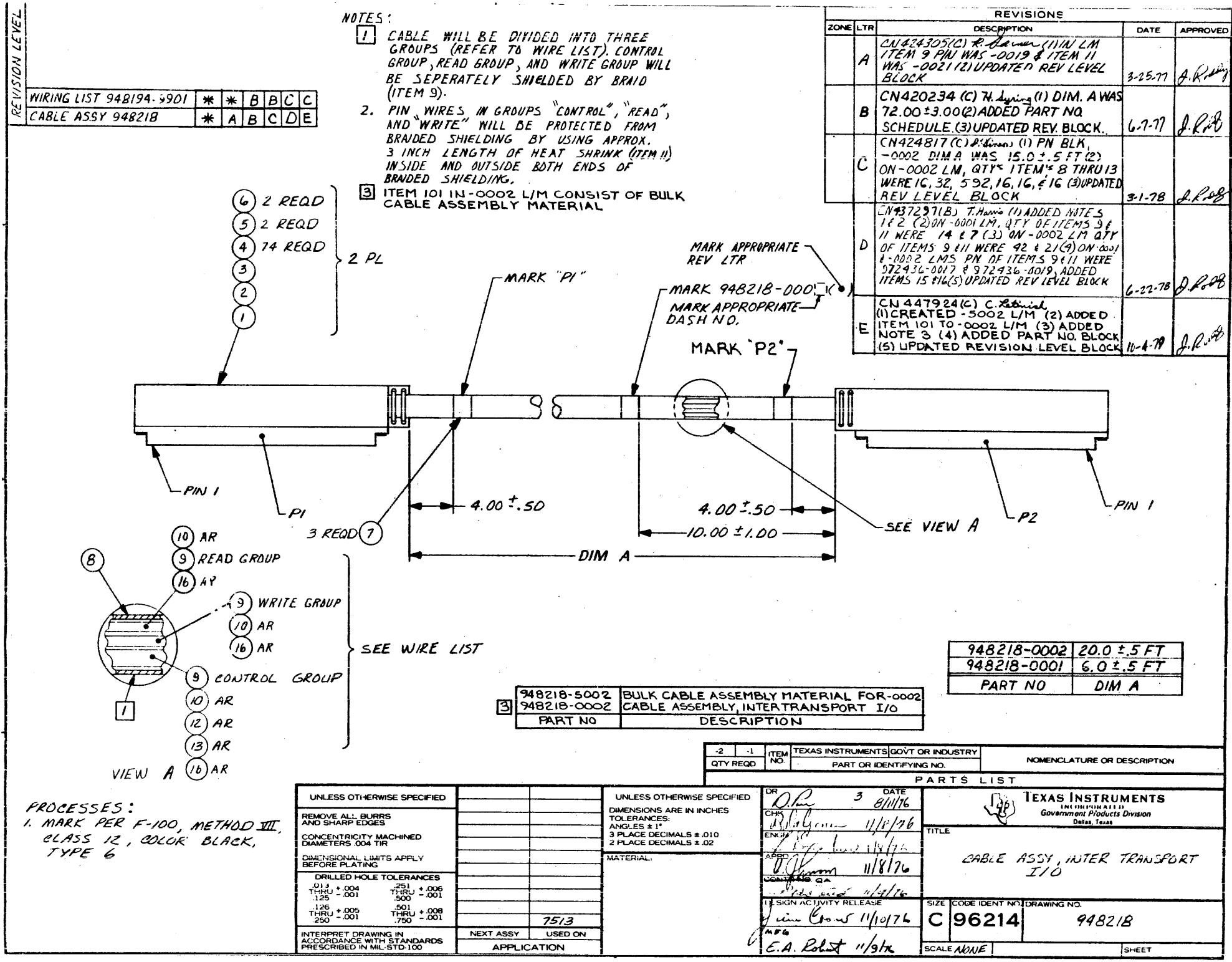
WIRE NO.	DESCRIPTION	TOTAL LENGTH	SIGNATURE	COMPONENT CONNECTION FOR START STATION	COMPONENT CONNECTION FOR FINISH STATION	REMARKS	N/A LM ITEM NO.
1	#22 WHT PVC	8	PE AMPL 5	P18-DX	P19-DX		9//
2	▲ BLK		GND	-DY	-DY		8//
3	WHT	8	PE AMPL 6	-DZ	-DZ		9//
4	BLK		GND	-EA	-EA		8//
5	WHT	8	PE AMPL 7	-EC	-EC		9//
6	BLK		GND	-ED	-ED		8//
7	WHT	8	PE AMPL 8	-EE	-EE		9//
8	BLK		GND	-EF	-EF		8//
9	WHT	8	PE AMPL 9	-EH	-EH		9//
10	BLK		GND	-EJ	-EJ		8//
11	WHT	8	READ STA	-EK	-EK		9//
12	#22 BLK PVC	8	GND	P18-EL	P19-EL		8//
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							

TEXAS INSTRUMENTS  
INCORPORATED  
INDUSTRIAL PRODUCTS DIVISION  
HOUSTON, TEXAS

A 216357  
SHEET 6

REV A





TEXAS INSTRUMENTS INCORPORATED		DATE 09/06/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0948218-0001		REV E	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00002.000	EA		0800211-0003	CONNECTOR, ELECTRICAL PWB	3VH -40/LCN5					
0001A					P1 P2						
0002	00002.000	EA		0973583-0001	HOOD,CONNECTOR						
0003	00002.000	EA		0973584-0001	COVER,CONNECTOR						
0004	00144.000	EA		0972053-0002	SLEEVE,SOLDER,TAB TERMINAL	RCH --C-704-02					
0005	00004.000	EA		0972988-0016	SCREW 4-40 X .438 PAN HEAD CRES						
0006	00004.000	EA		0418212-0001	STRAP, TIEDOWN, ADJUSTABLE, BLACK						
0007	00003.000	EA		0418201-0060	STRAP,MARKER,ADJUSTABLE,PLASTIC	QPL-MS-3368-1-98					
0008	00007.000	FT		0236303-1000	TUBING ZIPPER BLK 1 IN DIA W/ OVERLAP	ZIP -2TZ-1000-GP-20					
0009	00021.000	FT		0417371-0003	WIRE,BRAID,FLAT,.188 WIDE	070903-8660					
0010	00265.000	FT		0966760-2495	WIRE,TWISTED PAIR #24 WHT/GRN IPVC	UL - 1472 7STR UL6					
0011	00003.000	FT		0972146-0008	TUBING, 1/2 ID BLACK HEAT SHRINK PVC	003890-PG-135-125C					
0012	00007.000	FT		0538347-5999	WIRE HOOKUP 8-18 AWG 19 STR WHITE	JUD - HH0203					
0013	00007.000	FT		0538347-5299	WIRE HOOKUP 8-18 AWG 19 STR BK/WH	JUD - HH0203					
0014	REF	EA		0948194-9901	WIRE LIST,DAISY CHAIN CABLE						
0015	00001.000	FT		0972146-0010	TUBING,1 D BLK HEAT SHRINK PVC	003890-PG-135-125C					
0016	00003.000	FT		0538347-5099	WIRE HOOKUP 8-18 AWG 19 STR BK/WH	JUD - HH0203					
DRAFTSMAN		DATE	CKD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE				
APPRO. MFG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER		REV	
							7513	LM0948218-0001		E	

TEXAS INSTRUMENTS INCORPORATED		DATE 09/06/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0948218-0002		REV E	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00002.000	EA		0800211-0003	CONNECTOR, ELECTRICAL PWB	3VH -40/LCN5					
0001A					P1 P2						
0002	00002.000	EA		0973583-0001	HOOD,CONNECTOR						
0003	00002.000	EA		0973584-0001	COVER,CONNECTOR						
0014	REF	EA		0948194-9901	WIRE LIST,DAISY CHAIN CABLE						
0101	00001.000	EA		0948218-5002	BULK CABLE ASSEMBLY MATERIAL FOR-0002						
DRAFTSMAN		DATE	CKD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE				
APPRO. MFG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER		REV	
								LM0948218-0002		E	

TEXAS INSTRUMENTS INCORPORATED		DATE 09/06/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM0948218-5002		REV E	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0004	00144.000	EA		0972053-0002	SLEEVE,SOLDER,TAB TERMINAL	RCH --C-704-02					
0005	00004.000	EA		0972988-0016	SCREW 4-40 X .438 PAN HEAD CRES						
0006	00004.000	EA		0418212-0001	STRAP, TIEDOWN, ADJUSTABLE, BLACK						
0007	00003.000	EA		0418201-0060	STRAP,MARKER,ADJUSTABLE,PLASTIC	QPL-MS-3368-1-98					
0008	00021.000	FT		0236303-1000	TUBING ZIPPER BLK 1 IN DIA W/ OVERLAP	ZIP -2TZ-1000-GP-20					
0009	00063.000	FT		0416445-0041	WIRE,BRAID 30AWG ANL TND COP 24-4-30	074116-24-4-30					
0010	00777.000	FT		0966760-2495	WIRE,TWISTED PAIR #24 WHT/GRN IPVC	UL - 1472 7STR UL6					
0011	00003.000	FT		0972146-0008	TUBING, 1/2 ID BLACK HEAT SHRINK PVC	003890-PG-135-125C					
0012	00021.000	FT		2210012-5999	WIRE,ELECT,WHT,U/L 1429,19 X 30,18 AWG	090484-XVB1930U9P					
0013	00021.000	FT		0935170-5299	WIRE,UL 1429,19 STRC,18AWG,WHT/REC	-		F			
0015	00001.000	FT		0972146-0010	TUBING,1 D BLK HEAT SHRINK PVC	003890-PG-135-125C					
0016	00003.000	FT		0935170-5099	WIRE,UL 1429,19 STRD,18AWG,WHT/BLK	-		F			
DRAFTSMAN		DATE	CKD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE				
APPRO. MFG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER		REV	
								LM0948218-5002		E	

APPLICATION		REVISIONS				
NEXT ASSY	USED ON	LTR	DESCRIPTION	DATE	APPROVED	
948218	7513	A	CN419445 (D) <i>P. McDonald</i>	4-4-77	<i>L. Roff</i>	
		B	CN420233 (C) <i>C. Kromussen</i>	6-13-77	<i>L. Roff</i>	
		C	CN437299 (B) <i>D. DeLaf</i>	6-21-78	<i>L. Roff</i>	

NOTES:

- This cable contains three groups of wires (Control Group, Read Group, and Write Group).
- Control Group
- Read Group
- Write Group
- Each Group "Control", "Read", and "Write" will be separately shielded with braid wire. Braid wire will be connected using Item 16 to connector P1 Pins, other end to be soldered to braid.
- These wire numbers will have two wires per pin in P1, a No. 18 AWG and a No. 24 AWG.


REV																				
SHEET																				
REV STATUS OF SHEETS	REV	C	B	C	C	C														
	SHEET	1	2	3	4	5														

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES  
 TOLERANCES ANGLES ±.1°  
 3 PLACE DECIMAL ±.010  
 2 PLACE DECIMAL ±.02

IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY

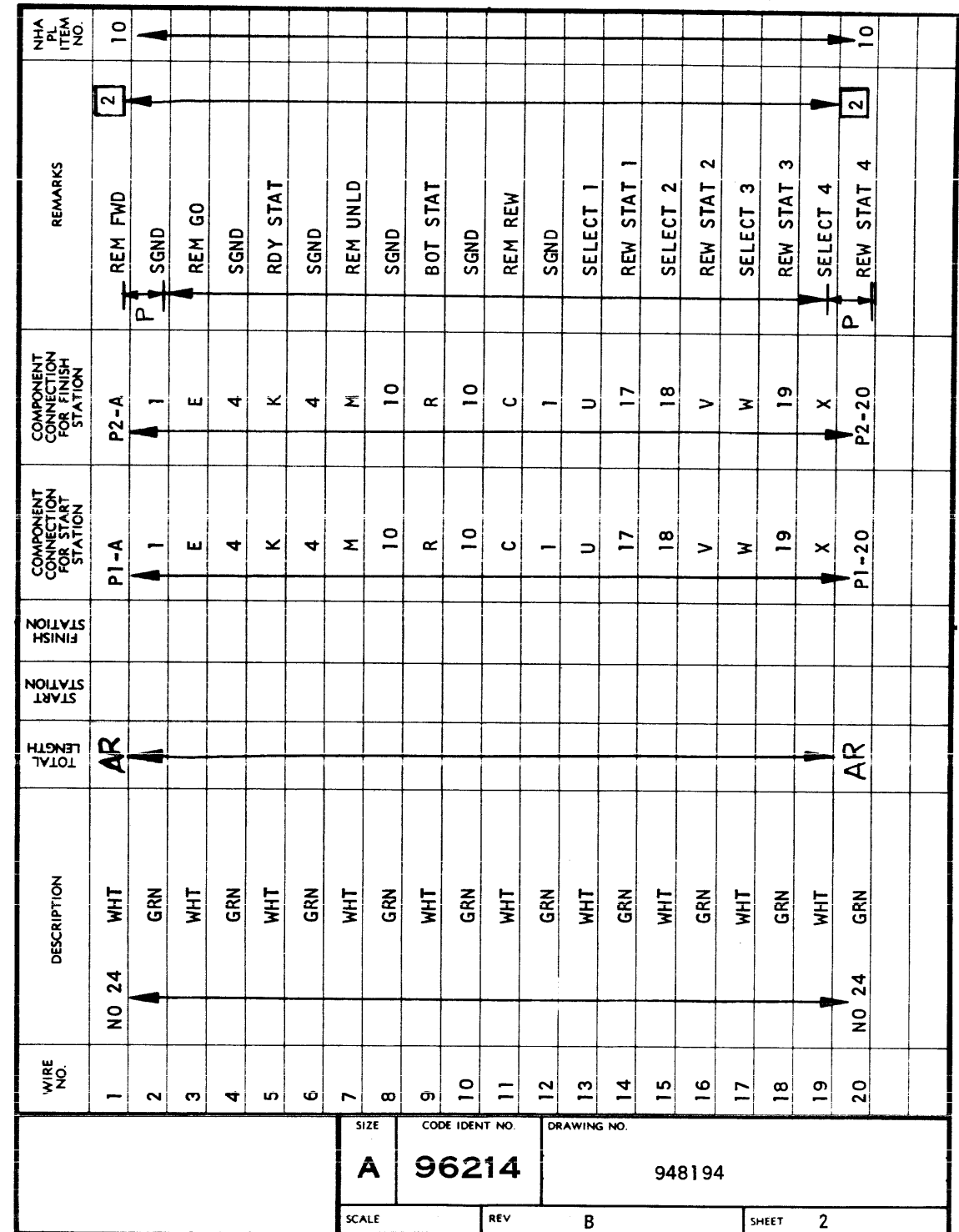
INTERPRET DWG IN ACCORDANCE WITH MIL-STD-100

DWN: D. BURKLUND 3/8/76 DATE: 3/8/76  
 CEN: *[Signature]* 11/8/76  
 EPC: *[Signature]* 11/8/76  
 INT: *[Signature]* 11/9/76  
 CRP: *[Signature]* 11/8/76  
 DESIGN ACTIVITY RELEASE: *[Signature]* 11/9/76


**TEXAS INSTRUMENTS**  
 INCORPORATED  
 Equipment Group Dallas, Texas

WIRING LIST, 979A DAISY CHAIN

SIZE: A CODE IDENT NO: 96214 DRAWING NO: 948194  
 SCALE: NONE SHEET 1 OF 5



WIRE NO.	DESCRIPTION	TOTAL LENGTH	START STATION	FINISH STATION	COMPONENT CONNECTION FOR START STATION	COMPONENT CONNECTION FOR FINISH STATION	REMARKS	N/A PL ITEM NO.
21	NO 24 WHT	AR			P1-L	P2-L	SET WRT	10
22	GRN				35	35	SGND	
23	WHT				J	J	RD STAT	
24	GRN				27	27	SGND	
25	WHT				N	N	SET RD	
26	GRN				35	35	SGND	
27	WHT				P	P	WRT RST	
28	GRN				36	36	SGND	
29	WHT				S	S	FP STAT	
30	GRN				37	37	SGND	
31	WHT				V	V	EOT STAT	
32	GRN				40	40	SGND	
33	WHT				Y	Y	SELECT 5	10
34	NO 24 GRN				Z	Z	REW STAT 5	10
35	NO 18 RED/WHT				21	21	+5 CONTROL	13
36	NO 18 WHT	AR			P1-22	P2-22	+5 CONTROL	13
37	NO 18 WHT/BLK	AR			P1-27	"CONTROL" SHIELD	GND	16

SIZE	CODE IDENT NO.	DRAWING NO.
A	96214	948194
SCALE	REV	SHEET
	C	3

WIRE NO.	DESCRIPTION	TOTAL LENGTH	SIGNATURE	COMPONENT CONNECTION FOR START STATION	COMPONENT CONNECTION FOR FINISH STATION	REMARKS	N/A PL ITEM NO.
1	NO 24 WHT	AR	READ DATA 4	P1-B	P2-B	SIGNAL	10
2	GRN		GND	2	2	RETURN	10
3	WHT		READ DATA 2	F	F		10
4	GRN		GND	5	5		10
5	WHT		READ DATA 8	J	J		10
6	GRN		GND	7	7		10
7	WHT		READ DATA 1	L	L		10
8	GRN		GND	8	8		10
9	WHT		READ DATA 6	N	N		10
10	GRN		GND	9	9		10
11	WHT		RD CLK	C	C		10
12	GRN		GND	28	28		10
13	WHT		READ DATA 5	F	F		10
14	GRN		GND	31	31		10
15	WHT		READ DATA 9	k	k		10
16	GRN		GND	33	33		10
17	WHT		READ DATA 3	u	u		10
18	GRN		GND	39	39		10
19	WHT		READ DATA 7	25	25	SIGNAL	10
20	NO 24 GRN	AR	GND	P1-26	P2-26	RETURN	10
21	NO 18 WHT/BLK	AR		P1-33	"READ" SHIELD	GND	16

 <b>TEXAS INSTRUMENTS</b> INCORPORATED DIGITAL SYSTEMS DIVISION HOUSTON, TEXAS	<b>A</b>	948194	SHEET 4	REV C

Interconnecting Diagram, 979A

WIRE NO.	DESCRIPTION	TOTAL LENGTH	SIGNATURE	COMPONENT CONNECTION FOR START STATION	COMPONENT CONNECTION FOR FINISH STATION	REMARKS	N/A OR ITEM NO.
1	NO 24 WHT	AR	WRITE DATA 4	P1-D	P2-D	↑ SIGNAL	10
2	↑ GRN	↑	GND	↑ 3	↑ 3	↑ RETURN	10
3	WHT		WRITE DATA 2	H	H	↑	10
4	GRN		GND	6	6		10
5	WHT		WRITE DATA 8	S	S		10
6	GRN		GND	11	11		10
7	WHT		WRITE DATA 7	a	a		10
8	GRN		GND	29	29		10
9	WHT		WRITE DATA 5	e	e		10
10	GRN		GND	30	30		10
11	WHT		WRITE DATA 9	h	h		10
12	GRN		GND	32	32		10
13	WHT		WRT CLK	m	m		10
14	GRN		GND	34	34		10
15	WHT		WRITE DATA 3	t	t		10
16	GRN		GND	38	38		10
17	WHT		WRITE DATA 1	14	14		10
18	GRN		GND	12	12	↑	10
19	↓ WHT	↓	WRITE DATA 6	↓ 15	↓ 15	↑ SIGNAL	10
20	NO 24 GRN	AR	GND	P1-13	P2-13	↑ RETURN	10
21	NO 18 WHT/BLK	AR		P1-30	"WRITE" SHIELD	GND	16

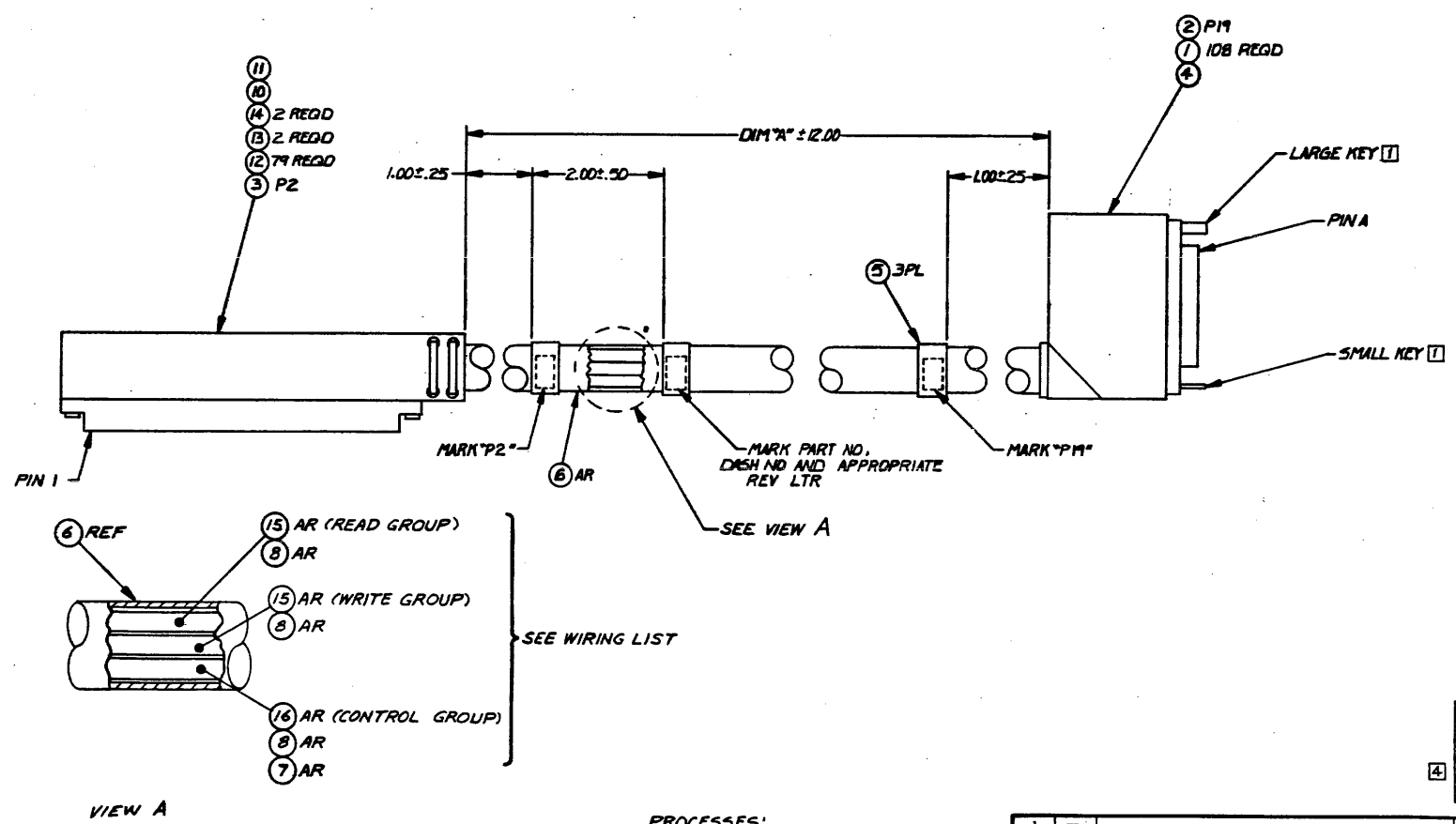
TEXAS INSTRUMENTS  
INCORPORATED  
DIGITAL SYSTEMS DIVISION  
HOUSTON, TEXAS

A 948194  
SHEET 5

REV C

NOTES: UNLESS OTHERWISE SPECIFIED:  
 1. ALL KEYS ON POSITION 1.  
 2. TWISTED PAIRS INSIDE CABLE TO MAINTAIN TWISTING TO WITHIN .75 INCH OF CONNECTOR PINS (ITEM 1).  
 3. SLEEVE SOLDERED TERMINATIONS IN CARD EDGE 26 POSITION CONNECTORS. USE .50 INCH PER TERMINATION OF SLEEVING PROVIDED.  
 4. ITEM 101 IN -0001LM CONSISTS OF BULK CABLE ASSY MATERIAL.

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	CN420862 (C) 9800 (1) DWS NO OF WIRE LIST WAS 948288-9901 (2) UPDATED REV LEVEL BLOCK	5-18-77	J. R. Roy
B	CN424390 (C) LANGLINS (1) ADDED NOTE 3 TO F/D (2) ADDED ITEMS 17 AND 18 TO LMS 7, 2 AND 3	8/16/77	D. J. ...
C	CN432511 (C) 8800 (1) CREATED -5001 LM (2) ADDED ITEM 101 TO -0001LM (3) ADDED NOTE 4 (4) ADDED -5001 TO P/M BLOCK (5) UPDATED REV LVL BLOCK	10-12-79	J. R. Roy



PROCESSES:  
 1. SOLDER PER F-127, METHOD I  
 2. MARK PER F-100, METHOD II, CLASS 1, HEIGHT .12, COLOR BLACK

QTY	PART NO.	DESCRIPTION	DIM 'A'
	948267-5001	BULK CABLE ASSY MATL FOR -0001	
	948267-0003	CABLE ASSY, DAISY CHAIN 979 TO 979A	120.00
	948267-0002	CABLE ASSY, DAISY CHAIN 979 TO 979A	180.00
4	948267-0001	CABLE ASSY, DAISY CHAIN 979 TO 979A	240.00

REVISION LEVEL

WIRING LIST 948268-9901	* A A A
CABLE ASSY 948267-0001	* A B C

IDENT	E-SPEC	NO	ADDITIONAL	NOTES
PROCESS				

QTY	ITEM NO	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION	NOTES

UNLESS OTHERWISE SPECIFIED:  
 • DIMENSIONS ARE IN INCHES  
 • TOLERANCES: ANGLES ±1°  
 3 PLACE DECIMALS ± 0.10  
 2 PLACE DECIMALS ± .02  
 • INTERPRET DRAWING PER MIL-D-1000  
 • REMOVE ALL BURRS AND SHARP EDGES  
 • CONCENTRICITY MACHINED DIAMETERS .010 P/M  
 • DIMENSIONAL LIMITS APPLY BEFORE PROCESSES  
 • PARENTHEICAL INFO FOR REF ONLY

HOLE TOLERANCE  
 013 THRU .004 128 THRU .008 251 THRU .008  
 125 THRU .001 250 THRU .001 300 THRU .001  
 501 THRU .008 751 THRU .010 1001 THRU .012  
 750 THRU .001 1000 THRU .001 2000 THRU .001

DATE 2/16/77  
 DATE 3-9-77  
 DATE 3-14-77  
 DATE 2/24/77  
 DATE 3/23/77

TEXAS INSTRUMENTS  
 INCORPORATED  
 DALLAS, TEXAS

CABLE ASSY, DAISY CHAIN,  
 979 TO 979A

SIZE 1/2" X 1/2" DRAWING NO 948267  
 D96214  
 SCALE 1:1 SHEET

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM948267-0001		REV C	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
J002	J0001.000	EA		0231257-0050	CONNECTOR- PLUG 120PIN WIRE CRIMP CGNT.	-SEE DRAWING			
J002A					P19				
0003	00001.000	EA		0800211-0003	CONNECTOR, ELECTRICAL PWB	3VH	-40/1CN5		
0003A					P2				
J004	J0002.000	EA		0231257-0052	CONNECTOR- COVER ASSY,120PIN ELCO	-SEE DRAWING			
J009	REF	EA		0948268-9901	WIRING LIST,979 TO 979A DAISY CHAIN				
0010	00001.000	EA		0973583-0001	HOOD,CONNECTOR				
0011	00001.000	EA		0973584-0001	COVER,CONNECTOR				
0101	00001.000	EA		0548267-5001	BULK CABLE ASSEMBLY MATERIAL FOR-0001				

DRAFTSMAN: *J.R. King* DATE: 09-10-79  
 APP'D: MFG DATE: PROJECT ENGINEER DATE: RELEASED DATE: PROJECT NO: 7513  
 PART NUMBER: LM948267-0001 REV: C

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM948267-0002		REV C	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0001	00108.000	EA		0227919-0002	CONTACT-REEL	ELC -60-8017-0323-0			
0002	00001.000	EA		0231257-0050	CONNECTOR- PLUG 120PIN WIRE CRIMP CONT.	-SEE DRAWING			
0002A					P19				
J003	00001.000	EA		0800211-0003	CONNECTOR, ELECTRICAL PWB	3VH	-40/1CN5		
0003A					P2				
0004	00002.000	EA		0231257-0052	CONNECTOR- COVER ASSY,120PIN ELCO	-SEE DRAWING			
0005	00003.000	EA		0418201-0060	STRAP,MARKER,ADJUSTABLE,PLASTIC	QPL-MS-3368-1-98			
0006	00015.000	FT		0236303-1000	TUBING ZIPPER BLK 1 IN DIA W/ OVERLAP	ZIP -2TZ-1000-GP-2J			
0007	00032.000	FT		0538347-5299	WIRE HOOKUP B-18 AWG 19 STR RD/WH	JUD - HH0203			
0008	00810.000	FT		0966760-2495	WIRE,TWISTED PAIR #24 WHT/GRN IPVC	UL - 1472 7STR UL6			
0009	REF	EA		0948268-9901	WIRING LIST,979 TO 979A DAISY CHAIN				
0010	00001.000	EA		0973583-0001	HOOD,CONNECTOR				
0011	00001.000	EA		0973584-0001	COVER,CONNECTOR				
0012	00079.000	EA		0972053-0002	SLEEVE,SOLDER,TAB TERMINAL	RCH -C-704-02			
0013	00002.000	EA		0972986-0016	SCREW 10-32X1.50 PAN HD CRES				
0014	00002.000	EA		0418212-0001	STRAP, TIEDOWN, ADJUSTABLE, BLACK				
0015	00015.000	FT		0972436-0019	INSULATION SLEEVING PVC CHLORIDE	LFS - HT-105C-24			
0016	00015.000	FT		0972436-0021	INSULATION SLEEVING 5/8 X .625	MKL - HT-105C-5/8			
0017	00002.333	FT		0410499-0010	INSULATION SLEEVING,TEFLON #14 NATURAL	QPL -81349			
0018	00000.167	FT		0410499-0011	INSULATION SLEEVING,TEFLON #12 NATURAL				


DRAFTSMAN: DATE: 09/06/79  
 APP'D: MFG DATE: PROJECT ENGINEER DATE: RELEASED DATE: PROJECT NO: 7513  
 PART NUMBER: LM948267-0002 REV: C

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM948267-0003		REV C	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0001	00108.000	EA		0227919-0002	CONTACT-REEL	ELC -60-8017-0323-0			
0002	00001.000	EA		0231257-0050	CONNECTOR- PLUG 120PIN WIRE CRIMP CGNT.	-SEE DRAWING			
0002A					P19				
0003	00001.000	EA		0800211-0003	CONNECTOR, ELECTRICAL PWB	3VH	-40/1CN5		
0003A					P2				
0004	00002.000	EA		0231257-0052	CONNECTOR- COVER ASSY,120PIN ELCO	-SEE DRAWING			
J005	00003.000	EA		0418201-0060	STRAP,MARKER,ADJUSTABLE,PLASTIC	QPL-MS-3368-1-98			
0006	00010.000	FT		0236303-1000	TUBING ZIPPER BLK 1 IN DIA W/ OVERLAP	ZIP -2TZ-1000-GP-2J			
0007	00022.000	FT		0538347-5299	WIRE HOOKUP B-18 AWG 19 STR RD/WH	JUD - HH0203			
0008	00540.000	FT		0966760-2495	WIRE,TWISTED PAIR #24 WHT/GRN IPVC	UL - 1472 7STR UL6			
0009	REF	EA		0948268-9901	WIRING LIST,979 TO 979A DAISY CHAIN				
J010	00001.000	EA		0973583-0001	HOOD,CONNECTOR				
J011	00001.000	EA		0973584-0001	COVER,CONNECTOR				
0012	00079.000	EA		0972053-0002	SLEEVE,SOLDER,TAB TERMINAL	RCH -C-704-02			
0013	00002.000	EA		0972986-0016	SCREW 10-32X1.50 PAN HD CRES				
0014	00002.000	EA		0418212-0001	STRAP, TIEDOWN, ADJUSTABLE, BLACK				
J015	00010.000	FT		0972436-0019	INSULATION SLEEVING PVC CHLORIDE	LFS - HT-105C-24			
J016	00010.000	FT		0972436-0021	INSULATION SLEEVING 5/8 X .625	MKL - HT-105C-5/8			
0017	00002.333	FT		0410499-0010	INSULATION SLEEVING,TEFLON #14 NATURAL	QPL -81349			
0018	00000.167	FT		0410499-0011	INSULATION SLEEVING,TEFLON #12 NATURAL				

DRAFTSMAN: DATE: 09/06/79  
 APP'D: MFG DATE: PROJECT ENGINEER DATE: RELEASED DATE: PROJECT NO: 7513  
 PART NUMBER: LM948267-0003 REV: C

TEXAS INSTRUMENTS INCORPORATED		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM948267-5001		REV C	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0001	00108.000	EA		0227919-0002	CONTACT-REEL	ELC -60-8017-0323-0			
0005	00003.000	EA		0418201-0060	STRAP,MARKER,ADJUSTABLE,PLASTIC	QPL-MS-3368-1-98			
J006	00020.000	FT		0236303-1000	TUBING ZIPPER BLK 1 IN DIA W/ OVERLAP	ZIP -2TZ-1000-GP-2J			
J007	00042.000	FT		0935170-5299	WIRE,UL 1425,15 STRG,18AWG,WHT/RED				
J008	01080.000	FT		0966760-2495	WIRE,TWISTED PAIR #24 WHT/GRN IPVC	UL - 1472 7STR UL6			
0012	00079.000	EA		0972053-0002	SLEEVE,SOLDER,TAB TERMINAL	RCH -C-704-02			
0013	00002.000	EA		0972986-0016	SCREW 10-32X1.50 PAN HD CRES				
0014	00002.000	EA		0418212-0001	STRAP, TIEDOWN, ADJUSTABLE, BLACK				
0015	00020.000	FT		0972436-0019	INSULATION SLEEVING PVC CHLORIDE	LFS - HT-105C-24			
J016	00020.000	FT		0972436-0021	INSULATION SLEEVING 5/8 X .625	MKL - HT-105C-5/8			
0017	00002.333	FT		0410499-0010	INSULATION SLEEVING,TEFLON #14 NATURAL	QPL -81349			
0018	00000.167	FT		0410499-0011	INSULATION SLEEVING,TEFLON #12 NATURAL				

DRAFTSMAN: DATE: 09/05/79  
 APP'D: MFG DATE: PROJECT ENGINEER DATE: RELEASED DATE: PROJECT NO: 7513  
 PART NUMBER: LM948267-5001 REV: C

APPLICATION		REVISIONS			
NEXT ASSY	USED ON	REV	DESCRIPTION	DATE	APPROVED
948267	7513	A	CN420861 (C) C.F. Remussen	5-10-77	<i>D. Roddy</i>
<p>NOTES:</p> <p>1 This cable contains three groups of wires (Groups A,B, and C)</p> <p>2 No Connection</p>					
REV					
SHEET					
REV STATUS OF SHEETS	REV	A	A	A	
	SHEET	1	2	3	4
<small>UNLESS OTHERWISE SPECIFIED</small> • DIMENSIONS ARE IN INCHES • TOLERANCES: ANGLES ±1° 3 PLACE DECIMALS ±.010 2 PLACE DECIMALS ±.02 • PARENTHETICAL INFO FOR REF ONLY	<small>DESIGNED BY</small> <i>P. McDONALD</i> 2/17/77	 <b>TEXAS INSTRUMENTS</b> <small>INCORPORATED</small> Dallas, Texas			
	<small>ENGINEER</small> <i>John Beard</i> 3-14-77				
	<small>APPROVED</small> <i>George Schalkamp</i> 3/14/77				
	<small>CONTR</small> <i>John Beard</i> 3/14/77				
	<small>SIZE</small> A <small>FSCM NO</small> 96214 <small>DRAWING NO</small> 948268	<b>WIRING LIST, DAISY CHAIN</b> 979 to 979A			
	<small>SCALE</small> NONE <small>SHEET</small> 1 OF 5				

WIRE NO.	DESCRIPTION	TOTAL LENGTH	START STATION	FINISH STATION	COMPONENT CONNECTION FOR START STATION	COMPONENT CONNECTION FOR FINISH STATION	REMARKS	NHA P/B ITEM NO
B -1	NO 24 WHT	AR			P19 - AF	P2 - A	REM FWD	8
-2	GRN				- AP	- C	REM - REW	
-3	WHT				- AJ	- E	REM GO	
-4	GRN				- AK	- 4	GND	
-5	WHT				- AL	- K	RDY STAT	
-6	GRN				- AS	- M	REM UNLD	
-7	WHT				- [2]	- P	SPARE 1	
-8	GRN				- [2]	- 10	GND	
-9	WHT				- BJ	- R	BOT STAT	
-10	GRN				- AY	- U	SELECT 1	8
-11	RED/WHT				- [2]	- T	CH GND	7
-12	RED/WHT				- [2]	- 16	CH GND	7
-13	WHT				- CJ	- V	REW STAT 2	8
-14	GRN				- CF	- 17	REW STAT 1	
-15	WHT				- BC	- W	SELECT 3	
-16	GRN				- BA	- 18	SELECT 2	
-17	WHT				- BE	- X	SELECT 4	
-18	GRN				- CL	- 19	REW STAT 3	
-19	WHT				- AW	- Y	SELECT 5	
B -20	NO 24 GRN	AR			P19 - CP	P2 - 20	REW STAT 4	8



WIRE NO.	DESCRIPTION	TOTAL LENGTH	START STATION	FINISH STATION	COMPONENT CONNECTION FOR START STATION	COMPONENT CONNECTION FOR FINISH STATION	REMARKS	NHA PL ITEM NO.
B -21	NO 24 WHT	AR			P19 - CD	P2 - Z	REW STAT 5	8
-22	GRN	→			- CR	- 27	GND	→
-23	WHT	→			- EK	- J	RD STAT	→
-24	GRN	→			- X	- T	SET WRT	→
-25	WHT	→			- BX	- n	SET RD	→
-26	GRN	→			- AD	- p	WRT RST	→
-27	WHT	→			- [2]	- r	SPARE 2	→
-28	GRN	→			- [2]	- 36	GND	→
-29	WHT	→			- AU	- s	FP STAT	→
-30	GRN	→			- AV	- 37	GND	→
-31	WHT	→			- BN	- v	EOT STAT	→
-32	NO 24 GRN	→			- BP	- 40	GND	→
-33	NO 18 RED/WHT	→			- AN	- 21	+5V CONTROL	→
-34	NO 18 RED/WHT	→			- BH	- 22	+5V CONTROL	→
A -1	NO 24 WHT	→			- CY	- B	READ DATA 4	→
-2	GRN	→			- CZ	- 2	GND	→
-3	WHT	→			- CU	- F	READ DATA 2	→
-4	GRN	→			- CV	- 5	GND	→
-5	WHT	→			- DJ	- J	READ DATA 8	→
A -6	NO 24 GRN	AR			P19 - DK	P2 - 7	GND	8

SIZE A CODE IDENT NO. 96214 DRAWING NO. 948268  
 SCALE REV A SHEET 3

WIRE NO.	DESCRIPTION	TOTAL LENGTH	START STATION	FINISH STATION	COMPONENT CONNECTION FOR START STATION	COMPONENT CONNECTION FOR FINISH STATION	REMARKS	NHA PL ITEM NO.
A -7	NO 24 WHT	AR			P19 - CS	P2 - L	READ DATA 1	8
-8	GRN	→			- CT	- 8	GND	→
-9	WHT	→			- DC	- N	READ DATA 6	→
-10	GRN	→			- DD	- 9	GND	→
-11	WHT	→			- CB	- C	RD CLK	→
-12	GRN	→			- CC	- 28	GND	→
-13	WHT	→			- DA	- f	READ DATA 5	→
-14	GRN	→			- DB	- 31 -	GND	→
-15	WHT	→			- DL	- k	READ DATA 9	→
-16	GRN	→			- DM	- 33	GND	→
-17	WHT	→			- CW	- u	READ DATA 3	→
-18	GRN	→			- CX	- 39	GND	→
-19	WHT	→			- DE	- 25	READ DATA 7	→
A -20	NO 24 GRN	AR			- DF	- 26	GND	8
C -1	WHT	→			- H	- D	WRITE DATA 4	→
-2	GRN	→			- J	- 3	GND	→
-3	WHT	→			- C	- H	WRITE DATA 2	→
-4	GRN	→			- D	- 6	GND	→
-5	WHT	→			- S	- S	WRITE DATA 8	→
C -6	NO 24 GRN	AR			P19 - T	P2 - 11	GND	8

SIZE A CODE IDENT NO. 96214 DRAWING NO. 948268  
 SCALE REV SHEET 4



NOTES: UNLESS OTHERWISE SPECIFIED:  
 1. ALL KEYS ON POSITION 1.  
 2. TWISTED PAIRS INSIDE CABLE TO MAINTAIN TWISTING TO WITHIN .75 INCH OF CONNECTOR PINS (ITEM 1).  
 3. SLEEVE SOLDERED TERMINATIONS ON CARD EDGE 36 POSITION CONNECTORS. USE .50 INCH PER TERMINATION OF SLEEVING (ITEM 18) PROVIDED.  
 4. ITEM 101 IN -0001 L.M. CONSISTS OF BULK CABLE ASSEMBLY MATERIAL.

REVISIONS

REV	DESCRIPTION	DATE	APPROVED
A	CN424390 (C) <i>John Henry</i> (1) ADDED NOTE 3, (2) ADDED ITEM 18 ON -0001, -0002 AND -0003, (3) UPDATED REV LEVEL BLK	8-16-77	<i>L. R. ...</i>
B	CN432510 (C) <i>John Henry</i> RECREATED -5001 L.M. (2) ADDED ITEM 101 TO -0001 L.M. (3) ADDED NOTE 4, (4) ADDED PIN BLDCK	10-16-79	<i>E. Henry</i>

948269-0001 BULK CABLE ASSY MATL FOR -0001  
 948269-0003 CABLE ASSY, DAISY CHAIN, 979A TO 979 20FT  
 948269-0002 CABLE ASSY, DAISY CHAIN, 979A TO 979 20FT  
 948269-0001 CABLE ASSY, DAISY CHAIN, 979A TO 979 20FT

QTY	ITEM NO	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION	NOTES
			UNLESS OTHERWISE SPECIFIED • DIMENSIONS ARE IN INCHES • TOLERANCES ANGLES 25° 3 PLACE DECIMALS ± 0.10 2 PLACE DECIMALS ± 0.02 • INTERPRET DRAWING PER MIL-D-1000 • REMOVE ALL BURRS AND SHARP EDGES • CONCENTRICITY MACHINED DIAMETERS .010 FIM • DIMENSIONAL LIMITS APPLY BEFORE PROCESSES • PARENTHETICAL INFO FOR REF ONLY		
			HOLE TOLERANCE .013 - .004 THRU .004 .126 - .001 THRU .001 .251 - .005 THRU .005 .500 - .001 THRU .001 1.000 - .010 THRU .010 1.500 - .061 THRU .061		

7513 USED ON APPLICATION

PROCESSES:  
 1. SOLDER PER F-127, METHOD I  
 2. MARK PER F-100, METHOD III, CLASS 12, COLOR BLACK, TYPE 6

REV	DESCRIPTION	DATE	APPROVED
1	WIRING LIST 948270-9901		
2	ASSEMBLY 948269		

REVISION LEVEL

SEQ NO	IDENT	F SPEC	NO	ADDITIONAL	NOTES
	PROCESS			CLASSIFICATION	

PROCESSES — FOR CORRELATION TO GOVT AND SPECIFICATIONS SEE TI DRAWING 729467

TEXAS INSTRUMENTS  
 INCORPORATED  
 DALLAS, TEXAS  
 CABLE ASSEMBLY,  
 DAISY CHAIN,  
 979A TO 979  
 D96214 948269

TEXAS INSTRUMENTS INCORPORATED		LIST of MATERIAL		PAGE 1 of		PART NUMBER LM0948269-0001		REV B	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0002	J0001.000	EA		J00211-0003	CONNECTOR, ELECTRICAL PWB	3VH -40/1CN5			
0002A					P1				
J004	J0001.000	EA		J231257-0052	CONNECTOR- COVER ASSY, 120PIN ELCC	-SEE DRAWING			
J009	KEF	EA		0948270-9901	WIRING LIST, DAISY CHAIN, 979A TO 979				
J010	J0001.000	EA		J973583-0001	HOOD, CONNECTOR				
J011	J0001.000	EA		J573584-0001	COVER, CONNECTOR				
0101	00001.000	EA		0948269-5001	BULK CABLE ASSEMBLY MATERIAL FOR-0001				
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	CABLE ASSY, DAISY CHAIN, 979A TO 979, 20FT	
APPROVED		DATE	APPROVED PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	7513	
								PART NUMBER LM0948269-0001	
								REV B	

TEXAS INSTRUMENTS INCORPORATED		LIST of MATERIAL		PAGE 1 of		PART NUMBER LM0948269-0002		REV B	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0001	J0108.000	EA		0227919-0002	CONTACT-KEEL	ELC -60-8017-0323-0			
J002	J0001.000	EA		J00211-0003	CONNECTOR, ELECTRICAL PWB	3VH -40/1CN5			
0002A					P1				
0003	00001.000	EA		J231257-0051	CONNECTOR- RECP, 120PIN WIRE CRIMP CONT.	-SEE DRAWING			
J003A					P18				
0004	J0001.000	EA		J231257-0052	CONNECTOR- COVER ASSY, 120PIN ELCC	-SEE DRAWING			
0005	00003.000	EA		0418201-0060	STRAP, MARKER, ADJUSTABLE, PLASTIC	QPL-MS-3368-1-98			
0006	00015.000	FT		0236303-1000	TUBING ZIPPER BLK 1 IN DIA W/ OVERLAP	ZIP -2TZ-1000-GP-20			
0007	J0032.000	FT		0538347-5299	WIRE HOOKUP B-18 AWG 19 STR FD/WH	JUD - HH0203			
J008	J0010.000	FT		0966760-2495	WIRE, TWISTED PAIR #24 WHT/GRN IPVC	UL - 1472 7STR UL6			
0009	KEF	EA		0948270-9901	WIRING LIST, DAISY CHAIN, 979A TO 979				
0010	00001.000	EA		0973583-0001	HOOD, CONNECTOR				
0011	00001.000	EA		0973584-0001	COVER, CONNECTOR				
0012	J0079.000	EA		0972053-0002	SLEEVE, SOLDER, TAB TERMINAL	FCH -C-704-02			
0013	J0032.000	EA		0972986-0016	SCREW 10-32X1.50 PAN HD CRCS				
0014	00002.000	EA		0418212-0001	STRAP, TIEDOWN, ADJUSTABLE, BLACK				
0015	00015.000	FT		0972436-0015	INSULATION SLEEVING PVL CHLORIDE	LFS - HT-105C-24			
0016	00015.000	FT		0972436-0021	INSULATION SLEEVING 5/8 X .625	MKL - HT-105C-5/8			
J017	J0002.333	FT		0410499-0010	INSULATION SLEEVING, TEFLON #14 NATURAL	QPL -81345			
J018	J0000.167	FT		J410499-0011	INSULATION SLEEVING, TEFLON #12 NATURAL				
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	CABLE ASSY, DAISY CHAIN, 979A TO 979, 15FT	
APPROVED		DATE	APPROVED PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	LM0948269-0002	
								PART NUMBER LM0948269-0002	
								REV B	

TEXAS INSTRUMENTS INCORPORATED		LIST of MATERIAL		PAGE 1 of		PART NUMBER LM0948269-0003		REV B	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
J001	J0108.000	EA		0227919-0002	CONTACT-KEEL	ELC -60-8017-0323-0			
J002	J0001.000	EA		J00211-0003	CONNECTOR, ELECTRICAL PWB	3VH -40/1CN5			
0002A					P1				
0003	00001.000	EA		J231257-0051	CONNECTOR- RECP, 120PIN WIRE CRIMP CONT.	-SEE DRAWING			
J003A					P18				
J004	J0001.000	EA		J231257-0052	CONNECTOR- COVER ASSY, 120PIN ELCC	-SEE DRAWING			
J005	J0003.000	EA		0418201-0060	STRAP, MARKER, ADJUSTABLE, PLASTIC	QPL-MS-3368-1-98			
0006	00010.000	FT		0236303-1000	TUBING ZIPPER BLK 1 IN DIA W/ OVERLAP	ZIP -2TZ-1000-GP-20			
J007	J0032.000	FT		0538347-5299	WIRE HOOKUP B-18 AWG 19 STR FD/WH	JUD - HH0203			
J008	J0010.000	FT		0966760-2495	WIRE, TWISTED PAIR #24 WHT/GRN IPVC	UL - 1472 7STR UL6			
0009	KEF	EA		0948270-9901	WIRING LIST, DAISY CHAIN, 979A TO 979				
J010	J0001.000	EA		0973583-0001	HOOD, CONNECTOR				
J011	J0001.000	EA		0973584-0001	COVER, CONNECTOR				
J012	J0079.000	EA		0972053-0002	SLEEVE, SOLDER, TAB TERMINAL	FCH -C-704-02			
J013	J0032.000	EA		0972986-0016	SCREW 10-32X1.50 PAN HD CRCS				
0014	00002.000	EA		0418212-0001	STRAP, TIEDOWN, ADJUSTABLE, BLACK				
J015	J0015.000	FT		0972436-0015	INSULATION SLEEVING PVL CHLORIDE	LFS - HT-105C-24			
J016	J0015.000	FT		0972436-0021	INSULATION SLEEVING 5/8 X .625	MKL - HT-105C-5/8			
J017	J0002.333	FT		J410499-0010	INSULATION SLEEVING, TEFLON #14 NATURAL	QPL -81345			
J018	J0000.167	FT		J410499-0011	INSULATION SLEEVING, TEFLON #12 NATURAL				
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	BULK CABLE ASSEMBLY MATERIAL FOR-0001	
APPROVED		DATE	APPROVED PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	LM0948269-0003	
								PART NUMBER LM0948269-0003	
								REV B	

TEXAS INSTRUMENTS INCORPORATED		LIST of MATERIAL		PAGE 1 of		PART NUMBER LM0948269-5001		REV B	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
0001	J0108.000	EA		0227919-0002	CONTACT-KEEL	ELC -60-8017-0323-0			
J003	00001.000	EA		J231257-0051	CONNECTOR- RECP, 120PIN WIRE CRIMP CONT.	-SEE DRAWING			
J003A					P18				
J005	00003.000	EA		0418201-0060	STRAP, MARKER, ADJUSTABLE, PLASTIC	QPL-MS-3368-1-98			
J006	00020.000	FT		0236303-1000	TUBING ZIPPER BLK 1 IN DIA W/ OVERLAP	ZIP -2TZ-1000-GP-20			
0007	00042.000	FT		0935170-5299	WIRE, UL 1429, 19 STR, 18AWG, WHT/RED				
J008	01080.000	FT		0966760-2495	WIRE, TWISTED PAIR #24 WHT/GRN IPVC	UL - 1472 7STR UL6			
J012	J0079.000	EA		0972053-0002	SLEEVE, SOLDER, TAB TERMINAL	FCH -C-704-02			
J013	J0032.000	EA		0972986-0016	SCREW 10-32X1.50 PAN HD CRCS				
0014	J0002.000	EA		0418212-0001	STRAP, TIEDOWN, ADJUSTABLE, BLACK				
0015	00020.000	FT		0972436-0015	INSULATION SLEEVING PVL CHLORIDE	LFS - HT-105C-24			
J016	J0020.000	FT		0972436-0021	INSULATION SLEEVING 5/8 X .625	MKL - HT-105C-5/8			
J017	J0032.333	FT		J410499-0010	INSULATION SLEEVING, TEFLON #14 NATURAL	QPL -81345			
J018	J0000.167	FT		J410499-0011	INSULATION SLEEVING, TEFLON #12 NATURAL				
DRAFTSMAN		DATE	CED DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	BULK CABLE ASSEMBLY MATERIAL FOR-0001	
APPROVED		DATE	APPROVED PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	LM0948269-5001	
								PART NUMBER LM0948269-5001	
								REV B	

APPLICATION		REVISIONS				
NEXT ASSY	USED ON	L	R	DESCRIPTION	DATE	APPROVED
948269	7513					
<p>NOTES:</p> <p>1. THIS CABLE CONTAINS THREE GROUPS OF WIRES (GROUPS A, B AND C)</p> <p>2 NO CONNECTION</p>						
REV						
SHEET						
REV STATUS OF SHEETS	REV SHEET	1	2	3	4	5
<small>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ANGLES ±1° 3 PLACE DECIMAL ±.010 2 PLACE DECIMAL ±.02</small>		<b>TEXAS INSTRUMENTS</b> <small>INCORPORATED</small> Equipment Group Dallas, Texas				
<small>IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY</small>		<b>WIRING LIST, DAISY CHAIN,</b> <b>979A TO 979</b>				
<small>INTERPRET DWG IN ACCORDANCE WITH MIL-STD-100</small>		DWN <i>C. Slip 3</i> DATE <i>2-9-77</i> ENGR <i>[Signature]</i> 2/9/77 QTR <i>[Signature]</i> 3/17/77 CTR <i>[Signature]</i> 3/17/77	SIZE <b>A</b>	CODE IDENT NO <b>96214</b>	DRAWING NO <b>948270</b>	SHEET <b>1 OF 5</b>

WIRE NO.	DESCRIPTION	TOTAL LENGTH	START STATION	FINISH STATION	COMPONENT CONNECTION FOR START STATION	COMPONENT CONNECTION FOR FINISH STATION	REMARKS	NHA PL ITEM NO.
B-1	ND24 WHT	AR			PI-A	PIB-AF	REM FWD	8
2	GRN	↑			-C	-AP	REM REW	↑
3	WHT	↑			-E	-AJ	REM GO	↑
4	GRN	↑			-4	-AK	GND	
5	WHT	↑			-K	-AL	RDY STAT	
6	GRN	↑			-M	-AS	REM UNLD	
7	WHT	↑			-P	2	SPARE 1	
8	GRN	↑			-IO	2	GND	
9	WHT	↑			-R	-BJ	BOT STAT	
10	GRN	↑			-U	-AW	SELECT 1	
11	WHT	↑			-V	-CF	REW STAT 2	
12	GRN	↑			-17	-CD	REW STAT 1	
13	WHT	↑			-W	-BA	SELECT 3	
14	GRN	↑			-18	-AY	SELECT 2	
15	WHT	↑			-X	-BC	SELECT 4	
16	GRN	↑			-19	-CJ	REW STAT 3	
17	WHT	↑			-Y	-BE	SELECT 5	
18	GRN	↑			-20	-CL	REW STAT 4	
19	WHT	↑			-Z	-CP	REW STAT 5	
B-20	NO 24 GRN	AR			PI-27	PIB-CR	GND	8

SIZE <b>A</b>	CODE IDENT NO <b>96214</b>	DRAWING NO <b>948270</b>
SCALE	REV	SHEET <b>2</b>

WIRE NO.	DESCRIPTION	TOTAL LENGTH	START STATION	FINISH STATION	COMPONENT CONNECTION FOR START STATION	COMPONENT CONNECTION FOR FINISH STATION	REMARKS	NHA PL ITEM NO.
B-21	ND 24 WHT	AR			PI - J	PIB-EK	RD STAT	8
22	GRN				-I	-X	SET WRT	8
23	WHT				-R	-BX	SET RD	8
24	GRN				-P	-AD	WRT RST	8
25	WHT				-F	-E	SPARE 2	8
26	GRN				-36	-E	GND	8
27	WHT				-5	-AU	FP STAT	8
28	GRN				-37	-AV	GND	8
29	WHT				-V	-BN	EOT STAT	8
30	ND 24 GRN				-40	-BP	GND	8
31	ND 18 RED				-21	-AN	+5V CONTROL	7
B-32	ND 18 WHT				-22	-BH	+5V CONTROL	7
A-1	ND 24 WHT				-B	-CY	READ DATA 4	8
2	GRN				-2	-CZ	GND	8
3	WHT				-F	-CU	READ DATA 2	8
4	GRN				-5	-CV	GND	8
5	WHT				-J	-DJ	READ DATA 8	8
6	GRN				-7	-DK	GND	8
7	WHT				-L	-CS	READ DATA 1	8
A-8	ND 24 GRN	AR			PI - B	PIB-CT	GND	8

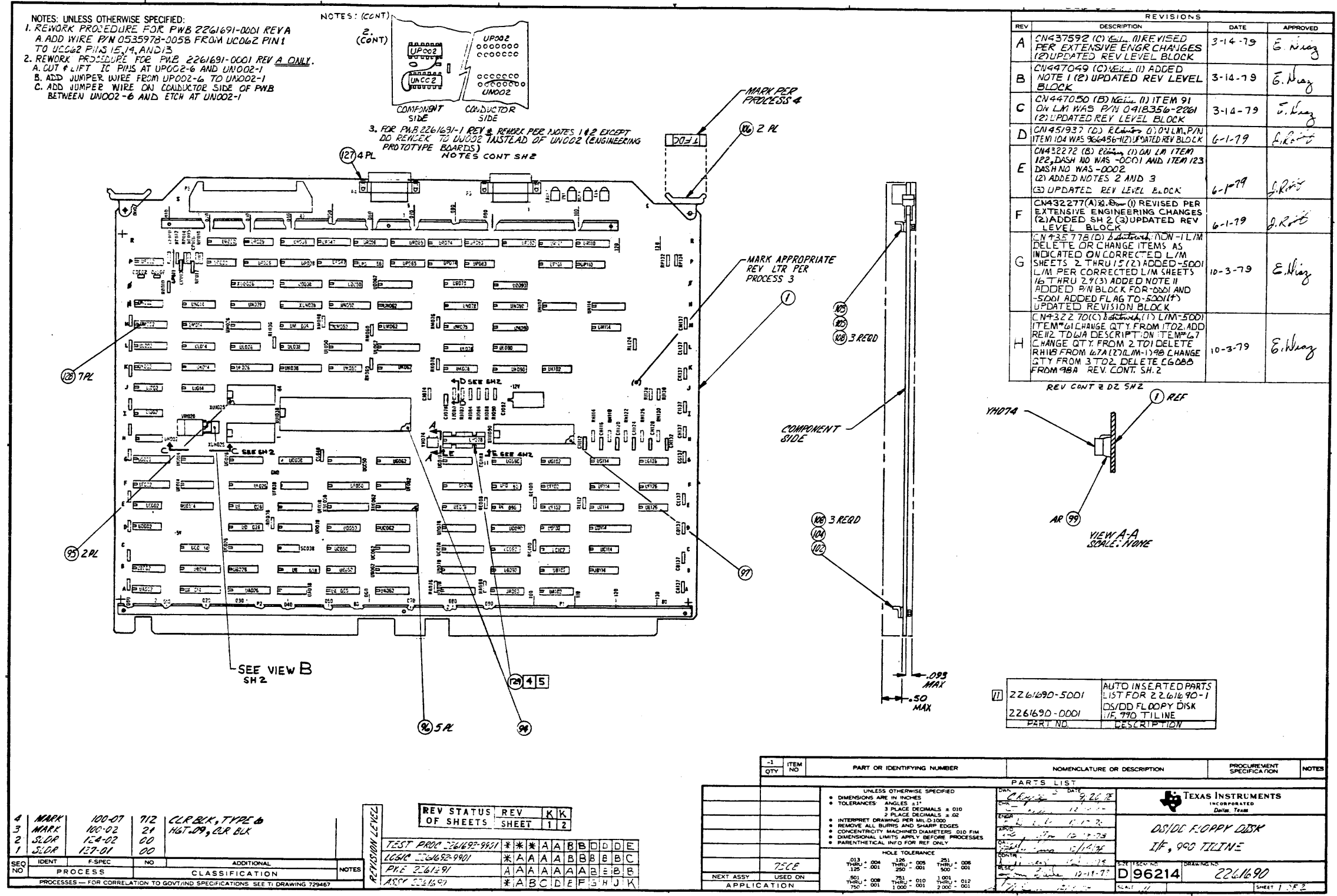
SIZE	CODE IDENT NO.	DRAWING NO.
A	96214	94B270
SCALE	REV	SHEET 3

WIRE NO.	DESCRIPTION	TOTAL LENGTH	START STATION	FINISH STATION	COMPONENT CONNECTION FOR START STATION	COMPONENT CONNECTION FOR FINISH STATION	REMARKS	NHA PL ITEM NO.
A-9	ND 24 WHT	AR			PI - N	PIB-DC	READ DATA 6	8
10	GRN				-9	-DD	GND	8
11	WHT				-C	-CB	RD CLK	8
12	GRN				-28	-CC	GND	8
13	WHT				-f	-DA	READ DATA 5	8
14	GRN				-31	-DB	GND	8
15	WHT				-K	-DL	READ DATA 9	8
16	GRN				-33	-DM	GND	8
17	WHT				-u	-CW	READ DATA 3	8
18	GRN				-39	-CX	GND	8
19	WHT				-25	-DE	READ DATA 7	8
A-20	GRN				-26	-DF	GND	8
C-1	WHT				-D	-H	WRITE DATA 4	8
2	GRN				-3	-J	GND	8
3	WHT				-H	-C	WRITE DATA 2	8
4	GRN				-6	-D	GND	8
5	WHT				-5	-S	WRITE DATA 8	8
6	GRN				-11	-T	GND	8
7	WHT				-P	-P	WRITE DATA 7	8
C-8	ND 24 GRN	AR			PI - 29	PIB-R	GND	8

SIZE	CODE IDENT NO.	DRAWING NO.
A	96214	94B270
SCALE	REV	SHEET 4

WIRE NO.	DESCRIPTION	TOTAL LENGTH	START STATION	FINISH STATION	COMPONENT CONNECTION FOR START STATION	COMPONENT CONNECTION FOR FINISH STATION	REMARKS	NHA PL ITEM NO.
C-9	NO 24 WHT	AR			P1-e	P18-K	WRITE DATA 5	8
10	GRN	↑			-30	-L	GND	↑
11	WHT	↑			-h	-V	WRITE DATA 9	↑
12	GRN	↑			-32	-W	GND	↑
13	WHT	↑			-m	-Z	WRT CLK	↑
14	GRN	↑			-34	-AA	GND	↑
15	WHT	↑			-E	-E	WRITE DATA 3	↑
16	GRN	↑			-38	-F	GND	↑
17	WHT	↑			-14	-A	WRITE DATA 1	↑
18	GRN	↑			-12	-B	GND	↑
19	WHT	↑			-15	-M	WRITE DATA 6	↑
C-20	NO 24 GRN	AR			P1-13	P18-N	GND	8

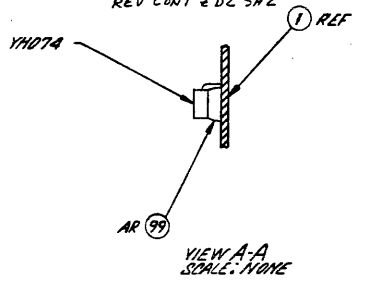
SIZE	CODE IDENT NO.	DRAWING NO.
A	96214	94827D
SCALE	REV	SHEET 5



NOTES: UNLESS OTHERWISE SPECIFIED:  
 1. REWORK PROCEDURE FOR PWB 2261691-0001 REV A  
 A. ADD WIRE P/N 0535978-0058 FROM UCC6Z PIN 1 TO UCC6Z PINS 14, AND 13  
 2. REWORK PROCEDURE FOR PWB 2261691-0001 REV A ONLY.  
 A. CUT & LIFT IC PINS AT UPO02-6 AND UN002-1  
 B. ADD JUMPER WIRE FROM UPO02-6 TO UN002-1  
 C. ADD JUMPER WIRE ON CONDUCTOR SIDE OF PWB BETWEEN UN002-6 AND ETCH AT UN002-1

NOTES: (CONT)  
 2. (CONT)  
 3. FOR PWB 2261691-1 REV A REWORK PER NOTES 1 & 2 EXCEPT DO REHLEK TO UN002 INSTEAD OF UN002 (ENGINEERING PROTOTYPE BOARDS)  
 NOTES CONT SHZ

REV	DESCRIPTION	DATE	APPROVED
A	CN437592 (C) REVISED PER EXTENSIVE ENGR CHANGES (2) UPDATED REV LEVEL BLOCK	3-14-79	E. King
B	CN447049 (C) REVISED (1) ADDED NOTE 1 (2) UPDATED REV LEVEL BLOCK	3-14-79	E. King
C	CN447050 (B) REVISED (1) ITEM 91 ON LM WAS P/N 0418356-2261 (2) UPDATED REV LEVEL BLOCK	3-14-79	E. King
D	CN451937 (D) REVISED (1) ON LM P/N ITEM 104 WAS 966456-112 (2) UPDATED REV BLOCK	6-1-79	J. R. King
E	CN432272 (B) REVISED (1) ON LM ITEM 122, DASH NO WAS -0001 AND ITEM 123 DASH NO WAS -0002 (2) ADDED NOTES 2 AND 3 (3) UPDATED REV LEVEL BLOCK	6-1-79	J. R. King
F	CN432277 (A) REVISED PER EXTENSIVE ENGINEERING CHANGES (2) ADDED SH 2 (3) UPDATED REV LEVEL BLOCK	6-1-79	J. R. King
G	CN435778 (D) REVISED PER EXTENSIVE ENGINEERING CHANGES (1) L/M DELETE OR CHANGE ITEMS AS INDICATED ON CORRECTED L/M SHEETS 2 THRU 13 (2) ADDED -5001 L/M PER CORRECTED L/M SHEETS 16 THRU 29 (3) ADDED NOTE 11 ADDED P/N BLOCK FOR -5001 AND -5001 ADDED FLAG TO -5001 (4) UPDATED REVISION BLOCK	10-3-79	E. King
H	CN432270 (C) REVISED PER EXTENSIVE ENGINEERING CHANGES (1) L/M -5001 ITEM 61 CHANGE QTY FROM 1 TO 2 ADD REV LTR TO L/M DESCRIPTION ITEM 67 CHANGE QTY FROM 2 TO 1 DELETE R.H. FROM 67A (2) L/M -198 CHANGE QTY FROM 3 TO 2 DELETE LG000 FROM 98A REV. CONT. SH. 2	10-3-79	E. King



2261690-5001	AUTO INSERTED PARTS LIST FOR 2261690-1
2261690-0001	DS/DD FLOPPY DISK IF, 770 TITLINE
PART NO.	DESCRIPTION

QTY	ITEM NO	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION	NOTES

DATE	BY	DESCRIPTION
9-26-79		

UNLESS OTHERWISE SPECIFIED	<ul style="list-style-type: none"> <li>DIMENSIONS ARE IN INCHES</li> <li>TOLERANCES - ANGLES .1°</li> <li>3 PLACE DECIMALS = .010</li> <li>2 PLACE DECIMALS = .02</li> <li>INTERPRET DRAWING PER MIL-D-1000</li> <li>REMOVE ALL BURRS AND SHARP EDGES</li> <li>CENTRICITY MACHINED DIAMETERS .010 FIM</li> <li>DIMENSIONAL LIMITS APPLY BEFORE PROCESSES</li> <li>PARENTHEICAL INFO FOR REF ONLY</li> </ul>												
HOLE TOLERANCE	<table border="1"> <tr> <td>.013 THRU .004</td> <td>.126 - .005</td> <td>.251 THRU .006</td> </tr> <tr> <td>.125 - .001</td> <td>.250 - .001</td> <td>.500 - .001</td> </tr> <tr> <td>.501 - .008</td> <td>.751 - .010</td> <td>1.001 THRU .012</td> </tr> <tr> <td>.750 - .001</td> <td>1.000 - .001</td> <td>2.000 - .001</td> </tr> </table>	.013 THRU .004	.126 - .005	.251 THRU .006	.125 - .001	.250 - .001	.500 - .001	.501 - .008	.751 - .010	1.001 THRU .012	.750 - .001	1.000 - .001	2.000 - .001
.013 THRU .004	.126 - .005	.251 THRU .006											
.125 - .001	.250 - .001	.500 - .001											
.501 - .008	.751 - .010	1.001 THRU .012											
.750 - .001	1.000 - .001	2.000 - .001											

TEXAS INSTRUMENTS	INCORPORATED
Dallas, Texas	
DS/DD FLOPPY DISK	
IF, 990 TITLINE	
D96214	2261690

SEQ NO	IDENT	F-SPEC	NO	ADDITIONAL CLASSIFICATION	NOTES
4	MARK	100-07	712	CLR BLK, TYPE 6	
3	MARK	100-02	21	HGT. DR, CLR BLK	
2	S.D.R.	124-02	00		
1	S.D.R.	127-01	00		

REV STATUS OF SHEETS	REV SHEET	K K	I I Z
TEST PROC 2261691-9911	***A A B B D D D E		
LOGIC 2261692-9901	*A A A A A B B B B B C		
PWB 2261291	A A A A A A A B B B B		
ASST 2261691	*A B C D E F G H J K		



VIEW C-C SH1  
SCALE: NONE

VIEW D-D  
ROTATED 90° CW SH1  
SCALE: NONE

VIEW E-E SH1  
SCALE: NONE

VIEW B SH1  
SCALE: NONE

4. INSTALL ITEM 28 (74LS362) IN LOCATION UH078 WITHOUT A SOCKET. A SOCKET IS NOT PERMITTED AT THIS LOCATION ON ANY FUTURE ASSEMBLIES.

5. BOND HEAT SINK (ITEM 129) TO 74LS362 (ITEM 28) USING ADHESIVE (ITEM 130). APPLY THE MIN AMOUNT OF ADHESIVE NECESSARY TO INSURE A GOOD THERMAL BOND BETWEEN HEATSINK AND I.C. ALLOW TO CURE IN A HORIZONTAL POSITION FOR 12 HOURS. COMPOUND SHOULD BE VISIBLE ON EDGES OF HEAT SINK.

6. ANY ASSEMBLIES USING EPROMS AS SUBSTITUTES FOR ROMS (EA 3342 & ZA3343) MUST HAVE LABELS COVERING THE "WINDOWS" WITH THE FOLLOWING MARKINGS  
LOCATION UH 025: 1699-3  
LOCATION UJ025: 1699-4

7. DUE TO COMPONENT VARIATIONS AND TOLERANCE BUILDUPS, THE FOLLOWING RESISTORS & CAPACITORS USED IN TIMING CIRCUITS MAY BE CHANGED IN VALUE BY HOT MOCK-UP TO MEET TEST PROCEDURE TIMING REQUIREMENTS: RPO14, RPO17, RPO18, RE088, CG088, RE112, CH112, CH116, RH118, CH120, RH122, CH124, RH126, CH128, RH130, & CH132.

8. REWORK PROCEDURE FOR PWB 2261691, REV A ONLY: ADD CAPACITOR (ITEM 131) TO VOLTAGE REGULATOR AT VU020. LAP LEADS OF CAPACITOR ON TOP OF REGULATOR LEADS PINS 1 & 2. AND SOLDER AS SHOWN IN VIEW B AND C-C

9. REWORK PROCEDURE FOR REV #1 APWB'S TO FIX PLL NOISE PROBLEMS:  
A. USE DRILL TO CUT AWAY PWB PLASTIC DOWN TO COPPER LAYER ON COMPONENT SIDE OF BOARD NEXT TO CPO10 AS SHOWN BELOW:  
  
B. DRILL ON CONDUCTOR SIDE OF PWB AS FOR COMPONENT SIDE NEXT TO CPO10 AS SHOWN:  
  
C. APPLY ROSEN FLUX TO EXPOSED COPPER ON BOTH SIDES WHERE DRILLED OUT, TIN WITH SOLDER.  
D. SOLDER IN JUMPER WIRES ACROSS EXPOSED COPPER ON BOTH SIDES OF PWB. HAVE QC INSPECT FOR GOOD SOLDER ADHERENCE AND NO COLD SOLDER JOINTS.  
E. APPLY EPOXY (ITEM 132) TO SEAL JUMPER WIRES IN DRILLED AREAS.

10. REWORK FOR ASSEMBLIES WITH EPROMS NOT LABELED PER NOTE G: ERASE EPROMS AND REPROGRAM WITH CURRENT FIRMWARE (2250099-3004,3005).

11. ITEM 134 IN THE -0001 L/M CONSISTS OF COMPONENTS WHICH ARE AUTO-INSERTED AND CONTAINED IN -5001 L/M

REV	DESCRIPTION	DATE	APPROVED
H	CONT FROM SR 2. ADDED LOCATION ITEM 1204; LPO11 (DELETE COMPONENT OUTLINE FOR LPO11) (SHOW WIRE INSTALLED (D)-5001) (2) CHANGE PN TO 972.946-0071 (1) BK SL 724A CHANGE DESCRIPTION TO RH118 (FROM RE112); (1) LM-1 ADD IT 135 IEA. PN 772.929-302 150 PF CAP 135A C6088 ALSO UPDATED REV BLOCK	10-3-79	E. King
J	CH 117 (1) D & R (1) ITEM 96 CHANGE PN FROM 0537544-0010 TO PN 2210185-0003 (1) ITEM 71 CHANGE PN FROM 0537544-0009 TO PN 2210185-0009 (3) ITEM 128 CHANGE PN FROM 0537544-0002 TO PN 2210185-0003 (1) UPDATED REV LEVEL	10-31-79	E. King
K	CN453407 (D) (1) IN -1 LM: DELETED ITEM 135 & 135A; QTY ITEM 98 WAS 2 ; # ADDED CG088 TO ITEM 98A (2) IN -5001 LM DELETED ITEM 124 & 124A; QTY LM DELETED 1 ; # ADDED RH118 TO ITEM 87A (5) UPDATED REV LEVEL BLOCK	4-7-80	D.R. King

	DATE: 5-14-79 ISSUE DATE:	PART NUMBER: D96214 SCALE: NONE	DRAWING NO: 2261690 SHEET: 2	REV: K
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TEXAS INSTRUMENTS INCORPORATED										
DATE 03/14/80 LIST OF MATERIAL PAGE 1 of										
PART NUMBER LM 2261690-0001 REV K										
PART ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEASURE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0002	REF	EA		2261692-9901	LOGIC DIAG, BS/DD FLOPPY DISK I/F, 990 TL					
0003	REF	EA		2261693-9901	TEST PROC, UNIT, 990 TILINE FLOPPY DISK I/F					
0004	REF	EA		2261639-9901	SPEC, 990 TILINE FLOPPY DISK I/F					
0005	00001.000	EA		0538535-0005	TERMINAL, STD, DOUBLE TURRET					
0021	00005.000	EA		0996089-0001	IC, SN74LS240N, LINE DRIVERS	001295-SN74LS240N				
0021A					UA014 UA026 UB014 UB038					
0021B					UC078					
0026	00007.000	EA		0996029-0001	IC, SN74LS273M OCTAL D-TYPE FLIP/FLOP	TI -SN74LS273M				
0026A					UB062 UD114 UF050 UL062					
0026B					UM014 UN050 UO038					
0027	00002.000	EA		0996425-0001	IC, SN74LS299N	001295-SN74LS299N				
0027A					UK026 UK038					
0028	00001.000	EA		0996172-0001	IC, SN74LS362N/TIM9904M	TI -SN74LS362N				
0028A					UH078					
0042	00001.000	EA		0972671-0001	NETWORK, MICROPROCESSOR, TMS9900					
0042A					UI038					
0043	00001.000	EA		0996475-0001	IC, TMS9901N PROGRAMMABLE SYSTEMS INTFC	001295-TMS9901N				
0043A					UH090					
0048	00001.000	EA		0219402-7408	NETWORK SN74S08N	TI- -SN74S08N				
0048A					UAQ02					
DRAFTSMAN DATE C.D. DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE										
L. R. R. 3-17-80 DS/DD FLOPPY DISK I/F, 990 TILINE										
APPRO. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV										
7508 LM 2261690-0001 K										

TEXAS INSTRUMENTS INCORPORATED										
DATE 03/14/80 LIST OF MATERIAL PAGE 2 of										
PART NUMBER LM 2261690-0001 REV K										
PART ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEASURE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0062	00001.000	EA		0972537-0003	DIODE, LED RED RT ANGLE	072619-550-0406				
0062A					CRS104					
0063	00003.000	EA		0972537-0002	DIODE, LED GREEN RT ANGLE	072619-550-0206				
0063A					CRS108 CRS112 CRS116					
0073	00001.000	EA		0972946-0053	RES FIX 330 OHM 5 % .25 W CARBON FILM	RQH - R-25				
0073A					RP134					
0074	00001.000	EA		0399999-9702	RESISTOR SELECTED AT UNIT TEST					
0074A					RP014					
0080	00001.000	EA		0996108-0001	CRYSTAL, QUARTZ, HC-18U 48MHZ .005%	013454-HC-18U48MHZ				
0080A					YH074					
0081	00002.000	EA		0538291-0009	COIL, RADIO FREQUENCY, MOLDED, FIXED					
0081A					LJ080A LJ080B					
0082	00001.000	EA		0972547-0005	SWITCH, SLIDE-SPST, DIP 5 SWITCHES	KEE -CTS206005				
0082A					SC038					
0083	00002.000	EA		0972620-0001	CONN, PLUG, RC BD-15 POSITION	AMP -206913-2				
0083A					P3 P4					
0084	00001.000	EA		0972137-0010	CONNECTOR, P.C. HEADER 50 CONTACTS	BEI - 65483-020				
0084A					P5					
0085	00003.000	EA		0972763-0021	CAP., FIXED, AXIAL LEAD, .047 UF, +80%, -20%					
0085A					CA000 CB000 CA137					
DRAFTSMAN DATE C.D. DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE										
L. R. R. 3-17-80 DS/DD FLOPPY DISK I/F, 990 TILINE										
APPRO. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV										
LM 2261690-0001 K										

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PART NUMBER LM 2261690-0001 REV K										
PART ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEASURE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0086	00001.000	EA		0972965-0016	CAP FIX CERAMIC .022 MF 10% 100V	QPL - CK068X223K				
0086A					CR013					
0087	00001.000	EA		0972927-0037	CAP FIX MICA 500V 270 PF 5 %	QPL -CM05E271J0D				
0087A					CP016					
0088	00001.000	EA		0972927-0051	CAP FIX MICA 100V 1000 PF 5 %	QPL -CM05F102J0A				
0088A					CH116					
0089	00001.000	EA		0972965-0012	CAP FIX CERAMIC .010 MF 10% 200V	QPL - CK068X103K				
0089A					CH128					
0090	00001.000	EA		0972927-0023	CAP FIX MICA 500V 68.0 PF 5 %	QPL -CM05E680J0D				
0090A					CH120					
0091	00001.000	EA		0972924-0016	CAP FIX TANT SOLID 100 MFD 10 % 20 VOLT	QPL -M39003/1-2301				
0091A					CJ092					
0092	00001.000	EA		0972927-0017	CAP FIX MICA 500V 39.0 PF 5 %	QPL -CM05E390J0D				
0092A					CO002					
0093	00001.000	EA		0972926-0013	CAPACITOR, FX 27 PF 5% 500V MICA DIELECT	-CMR04E270J0DL				
0093A					CJ078					
0094	00001.000	EA		0945244-0001	SOCKET, INTEGRATED CIRCUIT, 64 PIN					
0094A					XU1038					
0095	00002.000	EA		2210188-0007	SOCKET, LOW PROFILE, DIP, 24 PINS	003612-DILB24P-108				
0095A					XU025, XUJ025					
DRAFTSMAN DATE C.D. DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE										
L. R. R. 3-17-80 DS/DD FLOPPY DISK I/F, 990 TILINE										
APPRO. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV										
LM 2261690-0001 K										

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DATE 03/14/80 LIST OF MATERIAL PAGE 4 of										
PART NUMBER LM 2261690-0001 REV K										
PART ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEASURE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER				
0096	00004.000	EA		2210188-0005	SOCKET, LOW PROFILE, DIP, 20 PINS	003612-DILB20P-108				
0096A					XUE042 XUG026 XUE050 XUN038					
0097	00001.000	EA		2210188-0009	SOCKET, LOW PROFILE, DIP, 40 PINS	003612-DILB40P-108				
0097A					XUH090					
0098	00003.000	EA		0972929-0305	CAP FIX CERAMIC 220 PF 10% 200V	SEE - TI DRAWING				
0098A					CG088 CH112 CH132					
0099	AR	EA		0996069-0003	ADM, SOLID, THRMPLSTC 25# BAG ANAEROBIC	PERSAL-917-6302				
0100	AR	FT		0411400-0022	WIRE 22AWG ELETRO-TIN-PLATED, COPPER					
0100A					LP011					
0102	00001.000	EA		0945239-0001	BRACKET-STIFFENER, PWB, 14IN					
0103	00001.000	EA		0946707-0001	STIFFENER, PWB, 11 INCH					
0104	00001.000	EA		0944954-0001	INSULATOR, PWB, 14IN					
0105	00001.000	EA		0946708-0001	INSULATOR-STIFFENER, PWB, 11 INCH					
0106	00002.000	EA		0533844-0001	EJECTOR, NYLON, NON-LOCKING, PWB					
0107	00001.000	EA		0972965-0002	CAP, FXD CER DIELECT (GP) STYLE CK06 1500PF	011015-CK068X152K				
0107A					CH124					
0108	00006.000	EA		0972684-0002	SCREW, THD FRNG, HEX WSHR HD, 2-56X1/4 LG					
0110	00001.000	EA		2261700-0001	PROM, BOOLEAN, DD FLOPPY, 512, NO 1					
0110A					UM002					
0111	00001.000	EA		2261700-0002	PROM, BOOLEAN, DD FLOPPY, 512, NO 2					
DRAFTSMAN DATE C.D. DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE										
L. R. R. 3-17-80 DS/DD FLOPPY DISK I/F, 990 TILINE										
APPRO. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV										
LM 2261690-0001 K										

TILINE DS/DD Floppy Disk Interface Controller Assembly

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PART ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEAS	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0111A					UK014						
0112	00001.000	EA		2261700-0003	PRGM, BOOLEAN, DD FLOPPY, 512, NO 3						
0112A					UN014						
0113	00001.000	EA		2261700-0004	PRGM, BOOLEAN, DD FLOPPY, 512, NO 4						
0113A					UN026						
0114	00001.000	EA		2261700-0005	PRGM, BOOLEAN, DD FLOPPY, 512, NO 5						
0114A					UN114						
0115	00001.000	EA		2261701-0001	PRGM, 32X8, BOOLEAN, DD FLOPPY, NO 1						
0115A					UK050						
0116	00001.000	EA		2261701-0002	PRGM, 32X8, BOOLEAN, DD FLOPPY, NO 2						
0116A					UG050						
0117	00001.000	EA		2261702-0001	PRGM, BOOLEAN, DD FLOPPY, 2K, NO 1						
0117A					UE050						
0118	00001.000	EA		2261702-0002	PRGM, BOOLEAN, DD FLOPPY, 2K, NO 2						
0118A					UE062						
0119	00001.000	EA		2261703-0001	PRGM, BOOLEAN, DD FLOPPY, 4K, NO 1						
0119A					UQ026						
0120	00001.000	EA		2261703-0002	PRGM, BOOLEAN, DD FLOPPY, 4K, NO 2						
0120A					UN038						
0122	00001.000	EA		2261699-0003	ROM, 32K, FLOPPY 0, REV 0A						
DRAFTSMAN DATE CED DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE JWC:JRC DATE APPR PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV DS/DD FLOPPY DISK I/F, 990 TILINE LM 2261690-0001 K											

TEXAS INSTRUMENTS INCORPORATED		DATE 03/14/80		LIST OF MATERIAL		PAGE 6 of		PART NUMBER LM 2261690-0001		REV K	
PART ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEAS	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0122A					UH025						
0123	00001.000	EA		2261699-0004	ROM, 32K, FLOPPY 1, REV 0A						
0123A					UJ025						
0125	00001.000	EA		0972072-0009	NETWORK LM 340-05T	NSC - LM 340-05T					
0125A					VR1020						
0126	00001.000	EA		0972929-0381	CAP FIX CERAMIC 120 PF 10 % 200 V	QPL -M39014/01-1381					
0126A					CD006						
0127	00004.000	EA		0996080-0001	SLIDE LATCH POST KIT	TI -206514-1					
0128	00007.000	EA		2210188-0003	SOCKET, 60N PROFILE, DIP, 16 CONT	003612-DILB16P-108					
0128A					XUM002 XUM014 XUM014 XUM026						
0128B					XUM114 XUM050 XUG050						
0129	00001.000	EA		2210458-0001	HEAT SINK, DIP	013103-60108					
0130	00000.010	TU		0417857-0001	ADHESIVE, SILICON THERMAL COND						
0131	00001.000	EA		0972965-0032	CAP, FIXED 470, 000PF 10% 50V	QPL - 11015					
0131A					CM020						
0132	00000.010	EA		0996639-0001	ADHESIVE, EPOXY, 2-PART KIT, CLEAR	004347-608					
0133	00000.080	FT		0535978-0044	WIRE, MOKKUP 30 AWG SOLID, YELLOW WIREWRAP	QEN - SPCX130K6					
0134	00001.000	EA		2261690-5001	AUTO INSERTED PARTS LIST FOR 2261690-1						
DRAFTSMAN DATE CED DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE JWC:JRC DATE APPR PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV DS/DD FLOPPY DISK I/F, 990 TILINE LM 2261690-0001 K											

TEXAS INSTRUMENTS INCORPORATED		DATE 03/14/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 2261690-5001		REV K	
PART ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEAS	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00001.000	EA		2261691-0001	PRGM, DS/DD FLOPPY DISK I/F, 990 TILINE						
0006	00003.000	EA		0972900-7400	NETWORK SN74LS00N	TI -SN74LS00N					
0006A					UF126 UJ002 UJ002						
0007	00001.000	EA		0972900-7402	NETWORK, SN74LS02N						
0007A					UF062						
0008	00001.000	EA		0972749-0001	NETWORK, SN74LS08N						
0008A					UM062						
0009	00001.000	EA		0972788-0001	NETWORK, SN74LS11, POSITIVE AND GATE						
0009A					UL078						
0010	00001.000	EA		0972900-7E38	NETWORK SN74LS138N	TI -SN74LS138N					
0010A					UN102						
0011	00004.000	EA		0972784-0002	NETWORK SN74LS14N						
0011A					UF090 UG102 UK102 UQ056						
0012	00001.000	EA		0801383-0001	NETWORK SN74LS151N						
0012A					UK090						
0013	00002.000	EA		0872900-7E53	NETWORK SN74LS153N	TI -SN74LS153N					
0013A					UE114 UQ062						
0014	00002.000	EA		0972900-7E55	NETWORK SN74LS155N	TI -SN74LS155N					
0014A					UE078 UG062						
0015	00002.000	EA		0972668-0001	NETWORK-OMAD MULTIPLEXER, SN74LS197N						
DRAFTSMAN DATE CED DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE JWC:JRC DATE APPR PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV AUTO INSERTED PARTS LIST FOR 2261690-1 LM 2261690-5001 K											

TEXAS INSTRUMENTS INCORPORATED		DATE 03/14/80		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM 2261690-5001		REV K	
PART ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEAS	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0015A					UA062 UM038						
0016	00007.000	EA		0972669-0001	NETWORK, SN74LS163N						
0016A					UE014 UF014 UG014 UG026						
0016B					UG038 UL090 UM078						
0017	00001.000	EA		0972688-0001	NETWORK SN74LS164N						
0017A					UM050						
0018	00001.000	EA		0996130-0001	IC, SN74LS164N 8-BIT SHIFT REGISTER	TI -SN74LS166					
0018A					UM090						
0019	00003.000	EA		0972900-7174	NETWORK SN74LS174N						
0019A					UD050 UQ090 UQ050						
0020	00003.000	EA		0972900-7194	NETWORK SN74LS194N	TI -SN74LS194N					
0020A					UJ014 UJ002 UL014						
0022	00004.000	EA		0996580-0001	IC, SN74LS242N QUADRUPLE BUS RECEIVER	012955-SN74LS242N					
0022A					UA038 UB026 UB090 UC014						
0023	00006.000	EA		0996588-0002	IC, QUADRUPLE BUS TRANSCEIVER SN74LS243N	021955-SN74LS243N					
0023A					UC050 UQ002 UE002 UF038						
0024	00002.000	EA		0972668-0001	NETWORK SN74LS251N						
0024A					UE038 UL050						
0025	00001.000	EA		0972900-7253	NETWORK SN74LS253N	TI -SN74LS253N					
0025A					UQ062						
DRAFTSMAN DATE CED DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE JWC:JRC DATE APPR PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV AUTO INSERTED PARTS LIST FOR 2261690-1 LM 2261690-5001 K											

TEXAS INSTRUMENTS INCORPORATED		DATE 03/14/80		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM 2261690-5001		REV K		
PART NUMBER	QUANTITY BY ASSEMBLY	UNIT OF MEAS	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0029	00001.000	EA		0972787-0003	NETWORK SN74LS367N							
0029A					UA050							
0030	00005.000	EA		0972900-7474	NETWORK SN74LS74N							
0030A					UC114 UF078 UF102 UF114							
0030B					UG078							
0031	00001.000	EA		0222222-7406	NETWORK SN7406N							
0031A					UP047							
0032	00003.000	EA		0222222-7407	NETWORK-SN7407N	TI-	-SN7407N					
0032A					UG114 UR020 UR029							
0033	00001.000	EA		0222222-7408	NETWORK-SN7408N							
0033A					UE126							
0034	00001.000	EA		0222222-7125	NETWORK SN74125N							
0034A					UN026							
0035	00001.000	EA		0222222-7126	NETWORK SN74126N	TI-	-SN74126N					
0035A					UL026							
0036	00001.000	EA		0972120-0001	NETWORK,SN74259 8-BIT ADDRESSABLE LATCH	001295-74259						
0036A					UK062							
0037	00002.000	EA		0972159-7265	NETWORK, SN74265N							
0037A					UA078 UN062							
0038	00001.000	EA		0972854-0001	NETWORK, SN74376N							
DRAFTSMAN DATE CED DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE												
APPRO. DATE APPO. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO.												
AUTO INSERTED PARTS LIST FOR 2261690-1												
										PART NUMBER LM 2261690-5001		REV K

TEXAS INSTRUMENTS INCORPORATED		DATE 03/14/80		LIST OF MATERIAL		PAGE 4 of		PART NUMBER LM 2261690-5001		REV K		
PART NUMBER	QUANTITY BY ASSEMBLY	UNIT OF MEAS	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0038A					UK078							
0039	00003.000	EA		0222222-7438	NETWORK SN7438N							
0039A					UB050 UE090 UO078							
0040	00001.000	EA		0996035-0002	IC, 4 BIT COUNTER SN74393N	-SN74393N						
0040A					UM114							
0041	00001.000	EA		0222222-7492	NETWORK-SN7492N							
0041A					UM078							
0044	00001.000	EA		0974864-0001	NETWORK, CRC GENERATOR	FGD	-9401					
0044A					UL038							
0045	00003.000	EA		0974849-0001	NETWORK, DM8136							
0045A					UB002 UO026 UE026							
0046	00003.000	EA		0219402-7400	NETWORK SN74500N							
0046A					UC090 UE102 UN002							
0047	00001.000	EA		0219402-7402	NETWORK SN74502N	TI	-SN74502N					
0047A					UB114							
0048	00001.000	EA		0219402-7408	NETWORK SN74508N	TI-	-SN74508N					
0048A					UG090							
0049	00001.000	EA		0219402-7411	NETWORK SN74511N							
0049A					UB102							
0050	00001.000	EA		0219402-7112	NETWORK SN74512N	TI	-SN74512N					
DRAFTSMAN DATE CED DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE												
APPRO. DATE APPO. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO.												
AUTO INSERTED PARTS LIST FOR 2261690-1												
										PART NUMBER LM 2261690-5001		REV K

TEXAS INSTRUMENTS INCORPORATED		DATE 03/14/80		LIST OF MATERIAL		PAGE 5 of		PART NUMBER LM 2261690-5001		REV K		
PART NUMBER	QUANTITY BY ASSEMBLY	UNIT OF MEAS	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0050A					UO090							
0051	00001.000	EA		0219402-7453	NETWORK SN745153N	TI	-SN745153N					
0051A					UP029							
0052	00004.000	EA		0996795-0001	IC, SN745189N 16 X 4-BIT STATIC RAM	012955-N745189N						
0052A					UB078 UC026 UD038 UD078							
0053	00001.000	EA		0219402-7432	NETWORK SN74532N	TI-	-SN74532N					
0053A					UC102							
0054	00002.000	EA		0219402-7474	NETWORK SN74574N							
0054A					UD102 UH082							
0055	00004.000	EA		0972639-0001	NETWORK, SN75113N							
0055A					UR065 UB074 UR101 UR110							
0056	00002.000	EA		0972189-0002	NETWORK SN75115N	-TI-	-SN75115N					
0056A					UR056 UR092							
0057	00002.000	EA		0974674-0001	NETWORK SN75138N							
0057A					UA090 UA102							
0058	00004.000	EA		0996214-0003	IC, TMS4042-2NL 256 WORD X 4-BIT	TI	-TMS4042-2NL					
0058A					UF002 UE026 UG002 UK002							
0059	00001.000	EA		0537994-0001	NETWORK MC4024P	MGT	-MC4024P					
0059A					UP002							
0060	00001.000	EA		0537995-0001	NETWORK MC4044P	MGT	-MC4044P					
DRAFTSMAN DATE CED DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE												
APPRO. DATE APPO. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO.												
AUTO INSERTED PARTS LIST FOR 2261690-1												
										PART NUMBER LM 2261690-5001		REV K

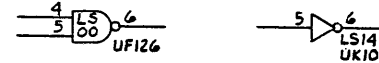
TEXAS INSTRUMENTS INCORPORATED		DATE 03/14/80		LIST OF MATERIAL		PAGE 6 of		PART NUMBER LM 2261690-5001		REV K		
PART NUMBER	QUANTITY BY ASSEMBLY	UNIT OF MEAS	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0060A					UP020							
0061	00002.000	EA		0972946-0035	RES FIX 56.0 OHM 5 % .25 W CARBON FILM	RDH	-R-25					
0061A					RE088 RE112							
0064	00001.000	EA		0972946-0081	RES FIX 4.7K OHM 5 % .25 W CARBON FILM	RDH	-R-25					
0064A					RP017							
0065	00001.000	EA		0972946-0089	RES FIX 10K OHM 5 % .25 W CARBON FILM	RDH	-R-25					
0065A					RH114							
0066	00001.000	EA		0972946-0076	RES FIX 3.0K OHM 5 % .25 W CARBON FILM	RDH	-R-25					
0066A					RH126							
0067	00002.000	EA		0972946-0073	RES FIX 2.2K OHM 5 % .25 W CARBON FILM	RDH	-R-25					
0067A					RH118 RP018							
0068	00006.000	EA		0972946-0065	RES FIX 1.0K OHM 5 % .25 W CARBON FILM	RDH	-R-25					
0068A					RE100 RJ090 RM060 RG010							
0068B					RP012 RP015							
0069	00002.000	EA		0972946-0062	RES FIX 750 OHM 5 % .25 W CARBON FILM	RDH	-R-25					
0069A					RA088 RD034							
0070	00001.000	EA		0972946-0051	RES FIX 270 OHM 5 % .25 W CARBON FILM	RDH	-R-25					
0070A					RH130							
0071	00001.000	EA		0972946-0049	RES FIX 220 OHM 5 % .25 W CARBON FILM	RJH	-R-25					
0071A					RM076							
DRAFTSMAN DATE CED DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE												
APPRO. DATE APPO. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO.												
AUTO INSERTED PARTS LIST FOR 2261690-1												
										PART NUMBER LM 2261690-5001		REV K

TEXAS INSTRUMENTS INCORPORATED		DATE 03/14/80		LIST OF MATERIAL		PAGE 7 of		PART NUMBER LM 2261690-5001		REV K	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEAS.	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0072	00004-000	EA		0972946-0021	RES FIX 15.0 OHM 5 % .25 W. CARBON FILM	ROH - R-25					
0072A					RJ082 RJ084 RJ086 RJ088						
0073	00011-000	EA		0972946-0053	RES FIX 330 OHM 5 % .25 W CARBON FILM	ROH - R-25					
0073A					RA076 RG100 RJ128 RH122						
0073B					RJ130 RK040 RK076 RL036						
0073C					RL124 RM048 RP132						
0075	00001-000	EA		0972525-0001	NETWORK, RESISTOR 28 ELEMENT 16 PIN DIP	BEC --898-5-R 220/3					
0075A					UR038						
0076	00001-000	EA		0800118-0010	RESISTOR 2.0K OHMS DIL PULL UP 16 PINS	BEC -8981R2.0K					
0076A					UC042						
0077	00001-000	EA		0972141-0027	NETWORK, RESISTOR 270 OHMS 14 PIN DIP	073138-899-1-R270					
0077A					UP110						
0078	00001-000	EA		0800118-0016	RESISTOR 10.0 K OHMS DIL PULL UP 16 PINS	BEC -8981R10.0K					
0078A					UM090						
0079	00004-000	EA		0800118-0002	RES. FXD-ARRAY, 100 OHMS	001121-316A101					
0079A					UP065 UP101 UR047 UR083						
0085	00020-000	EA		0972763-0021	CAP., FINEB, AXIAL LEAD, .047 UF, +80%, -20%						
0085A					CD000 CE000 CG000 CH000						
0085B					CI000 CK000 CL000 CM000						
0085C					CH137 CL137 CP010 CR137						
DRAFTSMAN DATE CHK. DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO INSERTED PARTS LIST FOR 2261690-1 APPR. JPC. DATE APPR. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM 2261690-5001 K											

TEXAS INSTRUMENTS INCORPORATED		DATE 03/14/80		LIST OF MATERIAL		PAGE 8 of		PART NUMBER LM 2261690-5001		REV K	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEAS.	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0085D					CH137 CL137 CP010 CR137						
0085E					CL137 CJ074 CH137 CG048						
0101	00001-000	EA		0972655-0001	NETWORK, SN74S132N						
0101A					UG126						
0109	00001-000	EA		0972900-7420	NETWORK SN74LS20N						
0109A					UP083						
0121	00002-000	EA		0222222-7414	NETWORK SN7414N						
0121A					UP038 UP074						
DRAFTSMAN DATE CHK. DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE AUTO INSERTED PARTS LIST FOR 2261690-1 APPR. JPC. DATE APPR. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO. PART NUMBER REV LM 2261690-5001 K											

NOTES: UNLESS OTHERWISE SPECIFIED;

1. ALL DEVICE TYPES ARE PREFIXED WITH SN74.
2. GROUND IS APPLIED TO PIN 7 OF ALL 14-PIN IC'S, PIN 8 OF ALL 16-PIN IC'S, ETC.
3. VCC IS APPLIED TO PIN 14 OF ALL 14-PIN IC'S, PIN 16 OF ALL 16-PIN IC'S, ETC.
4. DEVICE TYPE, PIN NUMBERS AND REFERENCE DESIGNATOR OF IC IS SHOWN AS FOLLOWS;

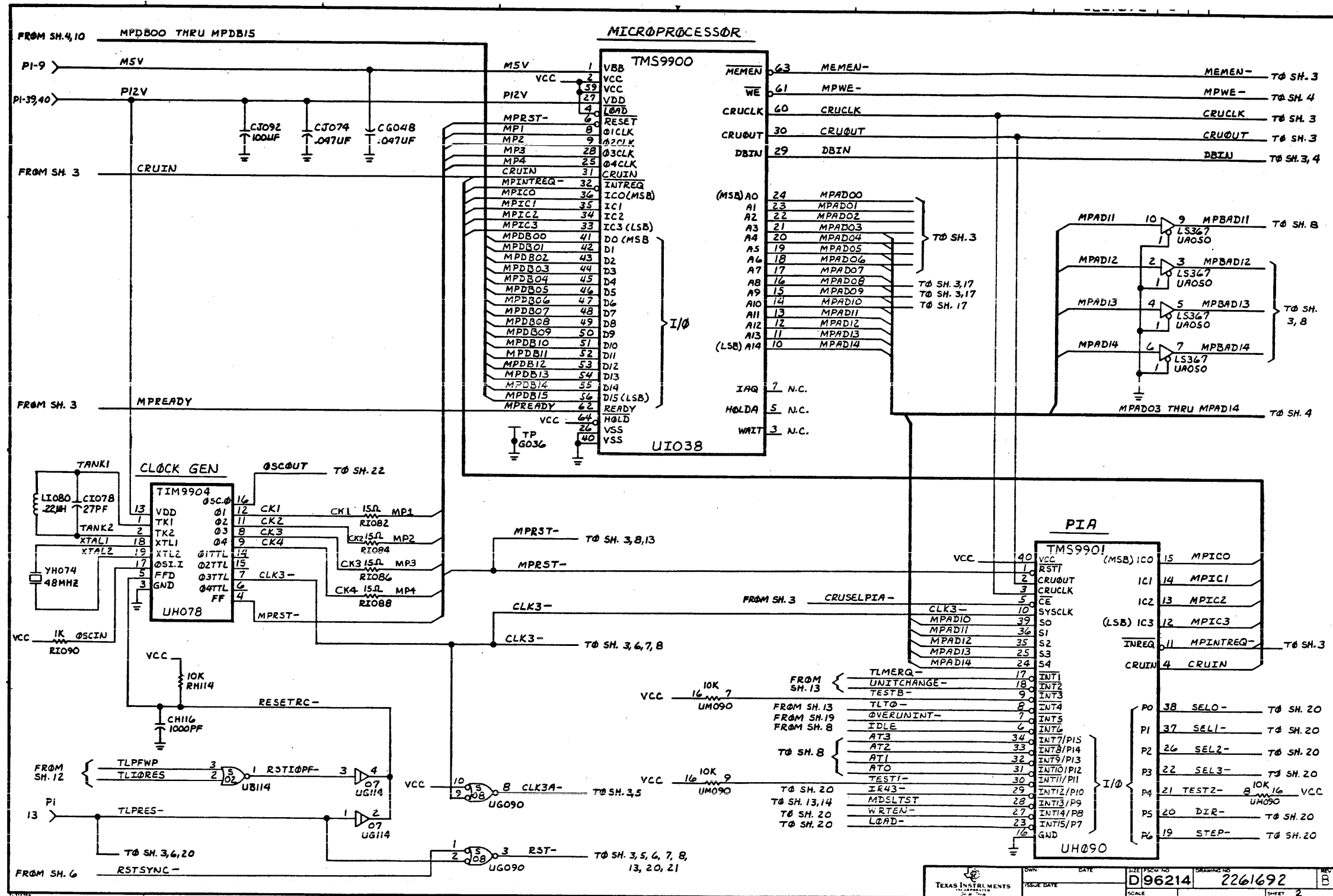


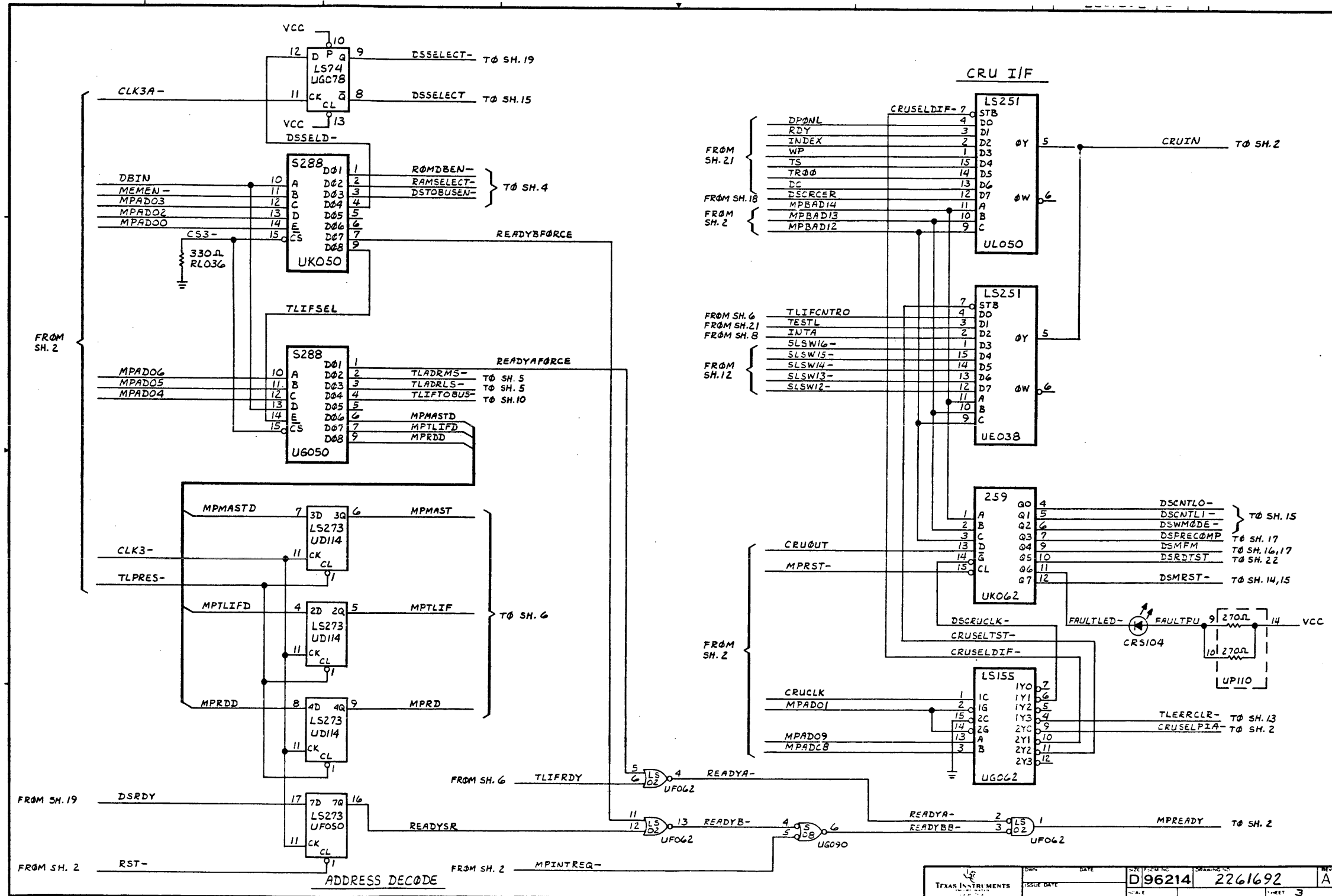
LS00 AND LS14 = DEVICE TYPE  
 4, 5 AND 6 = PIN NUMBERS  
 UF126 AND UK102 = REFERENCE DESIGNATOR

REVISIONS			
ZONE	LTR	DESCRIPTION	DATE
	A	CN447109(C) <i>R. De...</i>	3-21-79
	B	CN450837(C) <i>R. De...</i>	9-14-79
	C	CN493406(D) RGDURY	3-14-80

REV STATUS	REV	C	B	A	B	A		A		C	C	B	A	B	A	B	A	A	B					
OF SHEETS	SH.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23

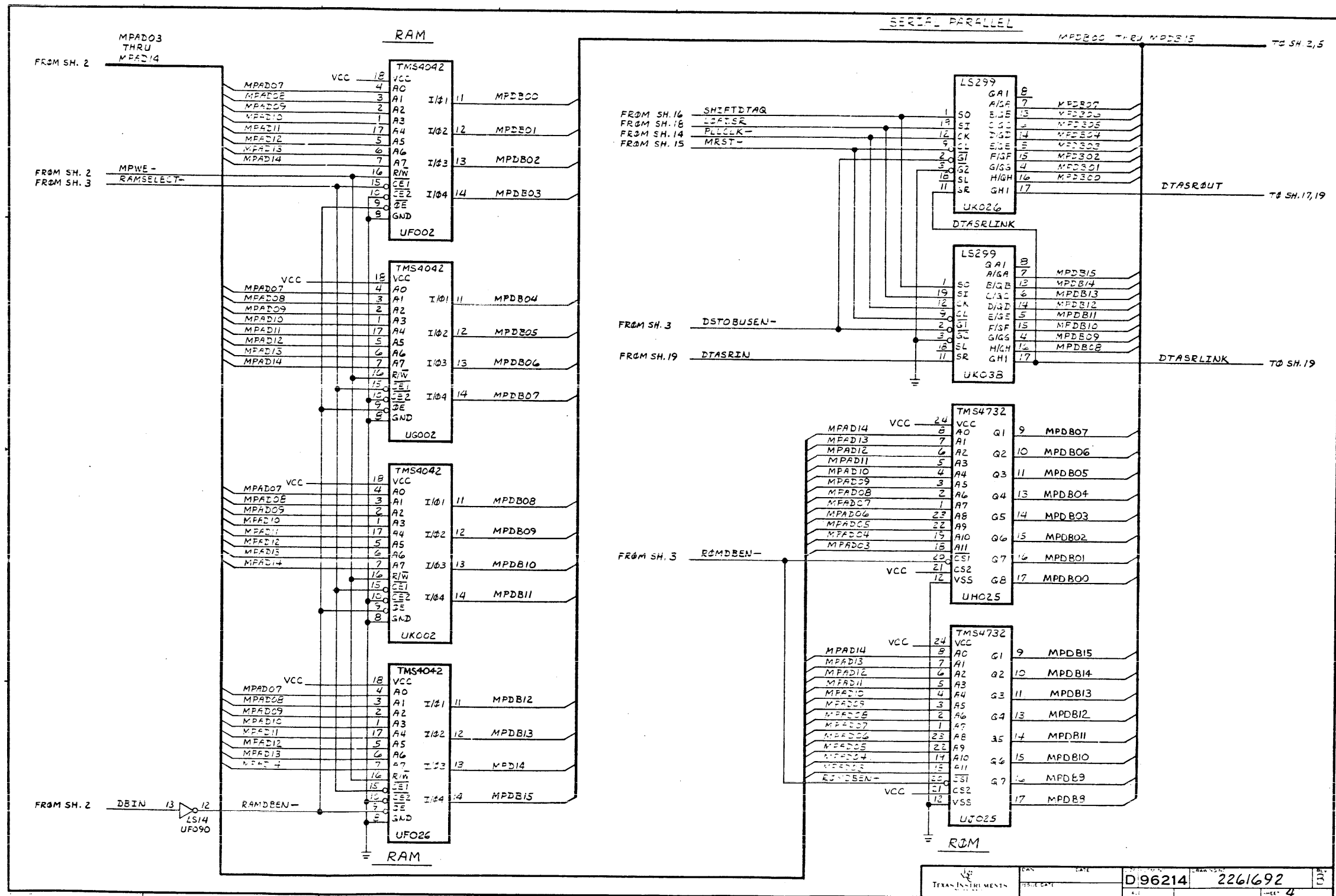
QTY REQD	ITEM NO	CODE IDENT	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION																																
<p>UNLESS OTHERWISE SPECIFIED</p> <p>REMOVE ALL BURRS AND SHARP EDGES</p> <p>CONCENTRICITY MACHINED DIAMETERS .010 FIR</p> <p>DIMENSIONAL LIMITS APPLY BEFORE FINISH PROCESSING</p> <p>IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY</p> <p>INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100</p> <p>HOLE TOLERANCE</p> <table border="1"> <tr> <td>.018</td> <td>-.004</td> <td>.125</td> <td>THRU</td> <td>+.005</td> <td>.250</td> <td>THRU</td> <td>+.006</td> </tr> <tr> <td>.125</td> <td>-.001</td> <td>.250</td> <td>THRU</td> <td>+.001</td> <td>.500</td> <td>THRU</td> <td>+.001</td> </tr> <tr> <td>.501</td> <td>-.008</td> <td>.750</td> <td>THRU</td> <td>1.001</td> <td>1.001</td> <td>THRU</td> <td>-.002</td> </tr> <tr> <td>.750</td> <td>-.001</td> <td>1.000</td> <td>THRU</td> <td>2.000</td> <td>2.000</td> <td>THRU</td> <td>-.001</td> </tr> </table> <p>UNLESS OTHERWISE SPECIFIED</p> <p>DIMENSIONS ARE IN INCHES</p> <p>TOLERANCES</p> <p>ANGLES ±1°</p> <p>3 PLACE DECIMALS ±.010</p> <p>2 PLACE DECIMALS ±.02</p> <p>MATERIAL:</p> <p>DATE: 11-15-78</p> <p>CHK: C. KEELER 12-6-78</p> <p>ENGR: P. H. ... 12-6-78</p> <p>QA: ... 12-6-78</p> <p>APD: ... 12-6-78</p> <p>CONTR NO:</p> <p>DESIGN ACTIVITY RELEASE: ... 12-6-78</p> <p>SCALE: 1:1</p> <p>SHEET 1 OF 23</p>						.018	-.004	.125	THRU	+.005	.250	THRU	+.006	.125	-.001	.250	THRU	+.001	.500	THRU	+.001	.501	-.008	.750	THRU	1.001	1.001	THRU	-.002	.750	-.001	1.000	THRU	2.000	2.000	THRU	-.001
.018	-.004	.125	THRU	+.005	.250	THRU	+.006																														
.125	-.001	.250	THRU	+.001	.500	THRU	+.001																														
.501	-.008	.750	THRU	1.001	1.001	THRU	-.002																														
.750	-.001	1.000	THRU	2.000	2.000	THRU	-.001																														
<p>TEXAS INSTRUMENTS</p> <p>INCORPORATED</p> <p>Equipment Group Dallas, Texas</p> <p>LOGIC DIAGRAM, DS/DD</p> <p>FLOPPY DISK INTERFACE,</p> <p>990 TILINE</p> <p>SIZE CODE IDENT NO DRAWING NO</p> <p>D 96214 2261692</p>																																					

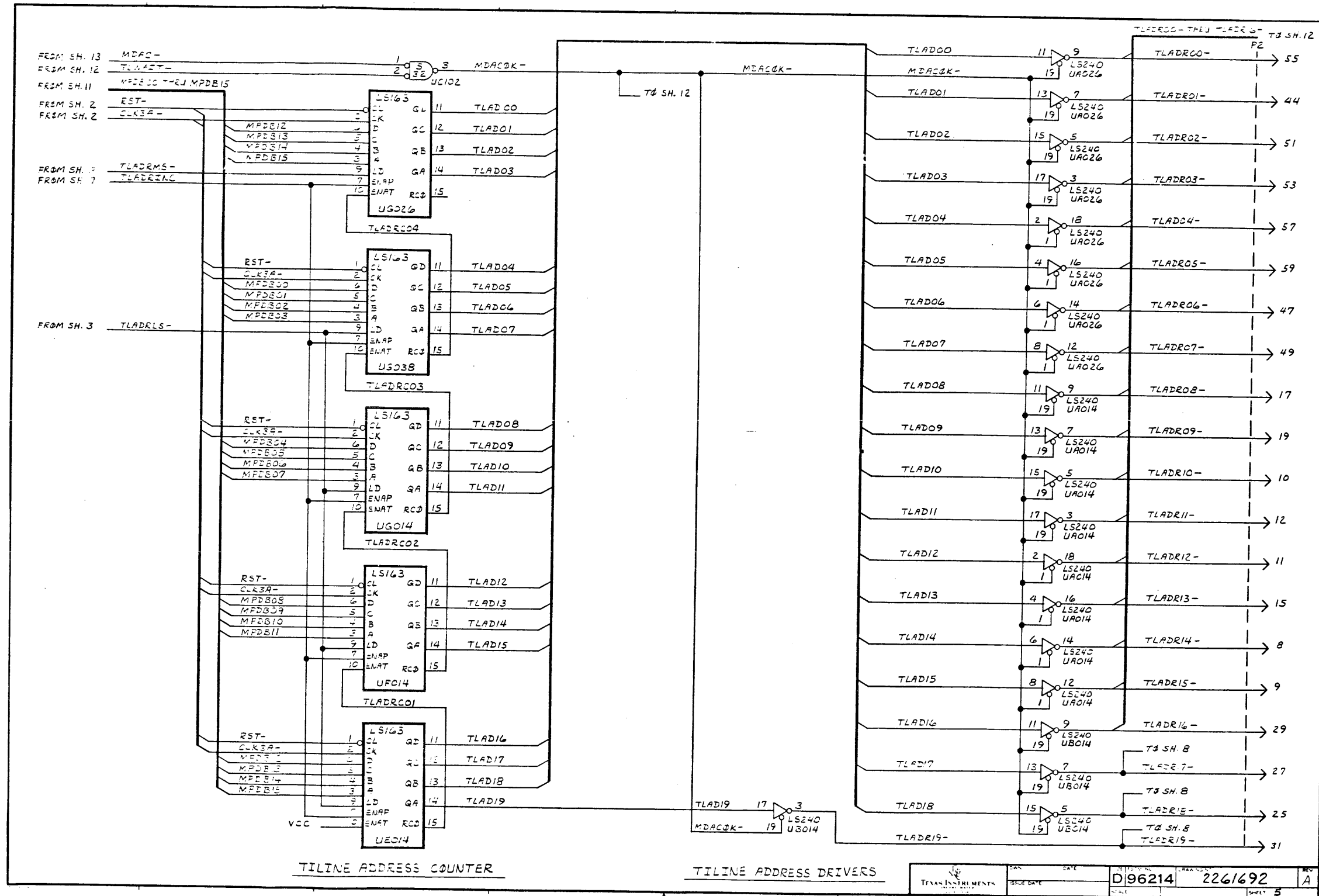


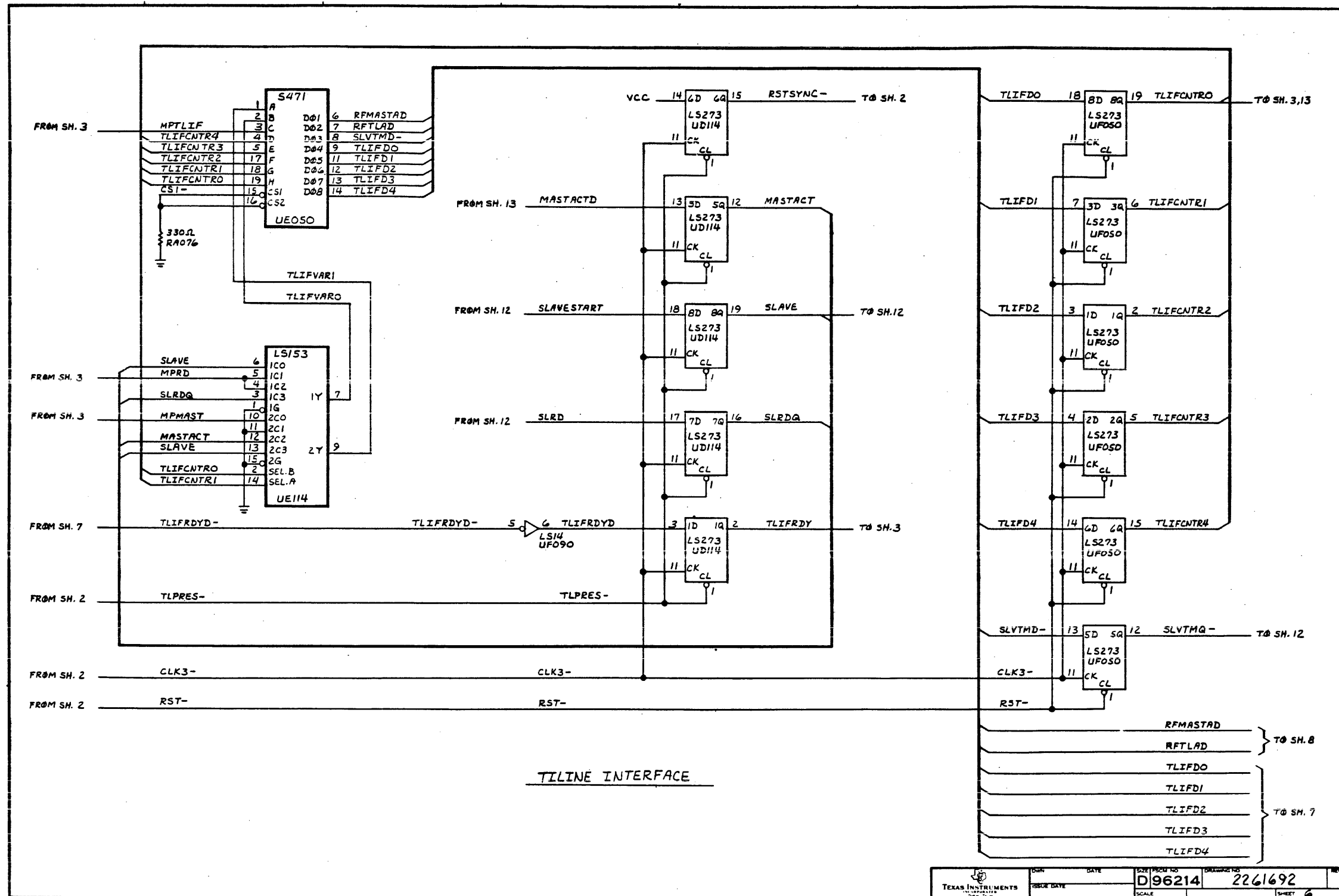


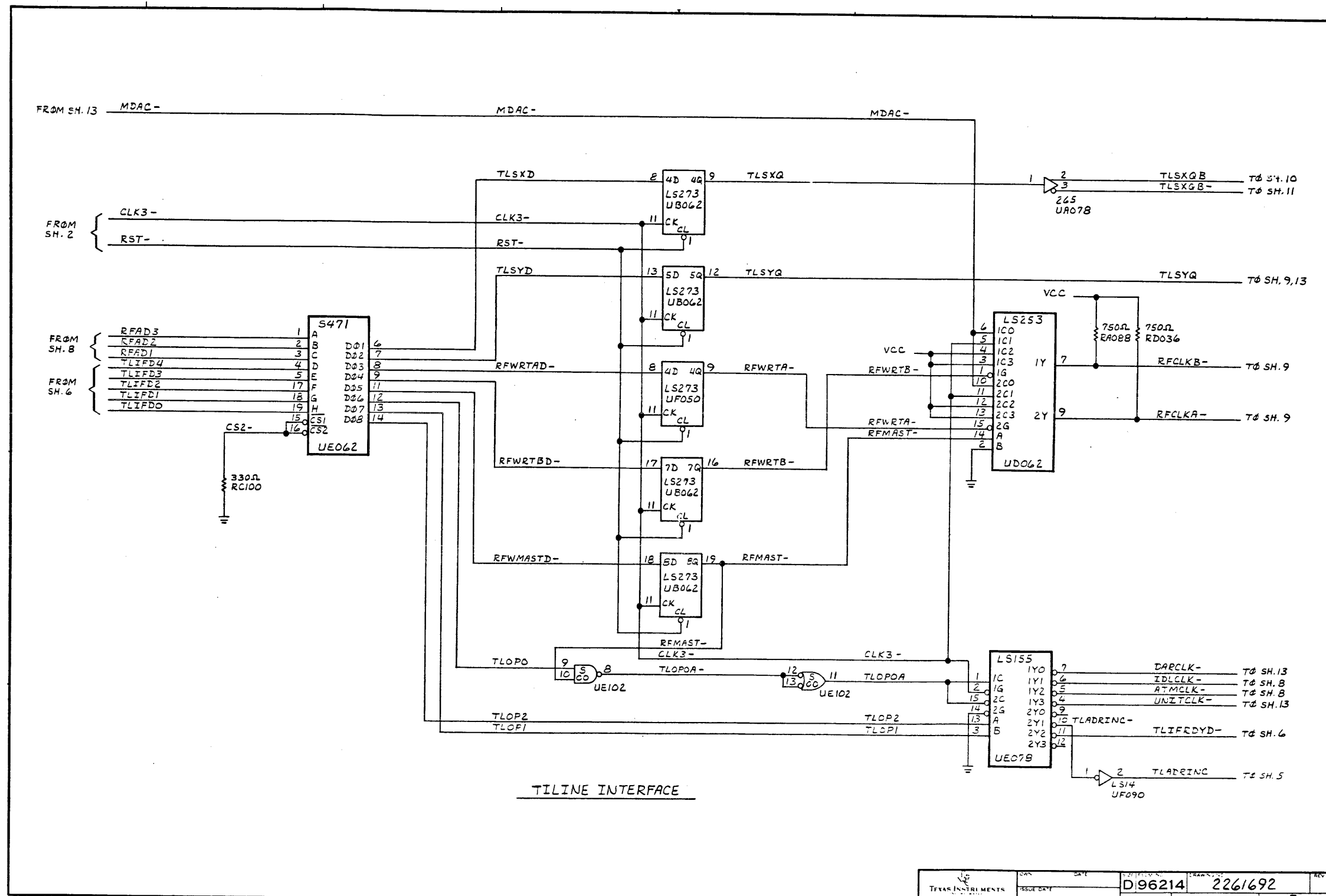
DATE	ISSUE DATE	DATE	ISSUE DATE	DATE	ISSUE DATE
DRAWING NO. 2261692		REV. A		SHEET 3	



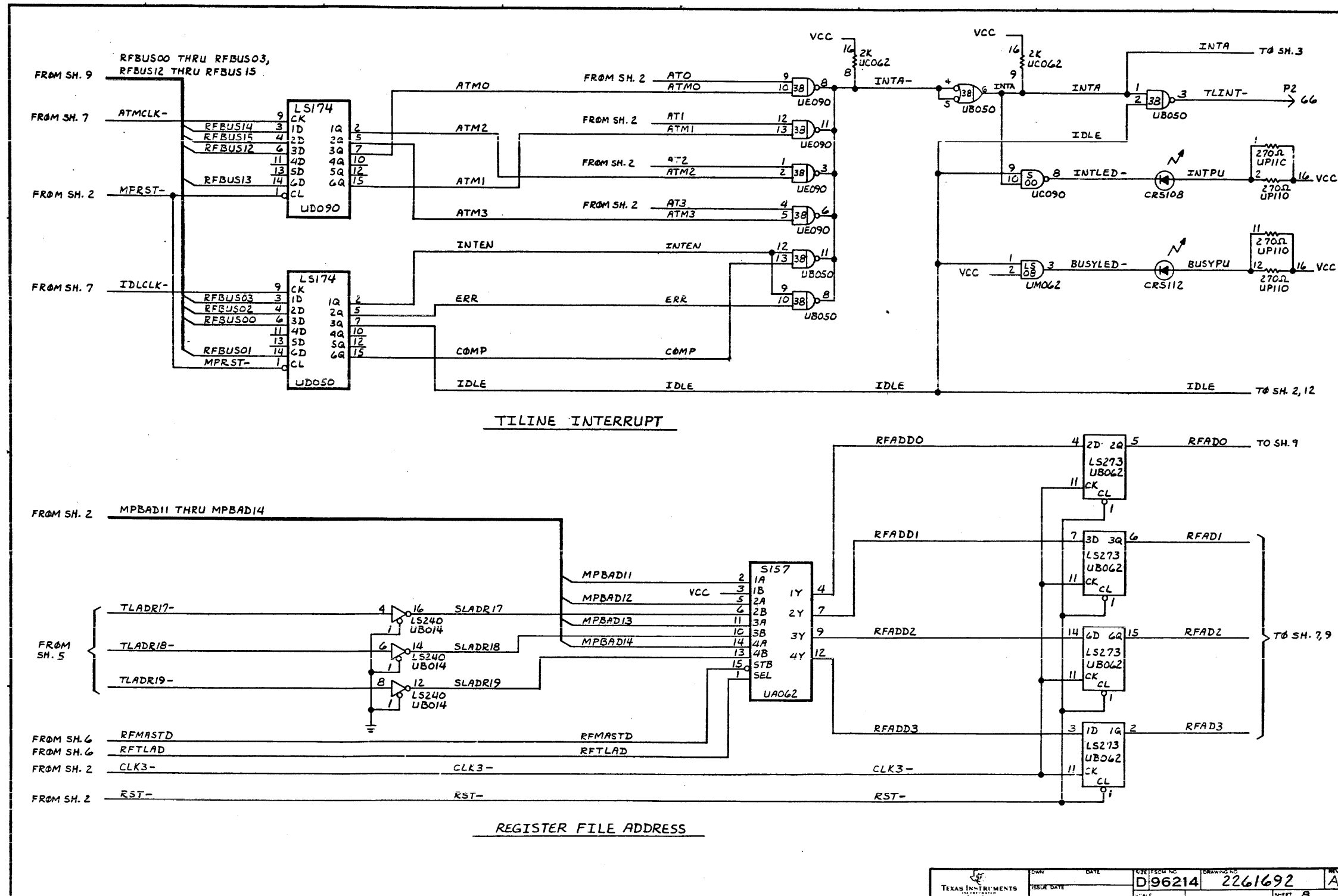


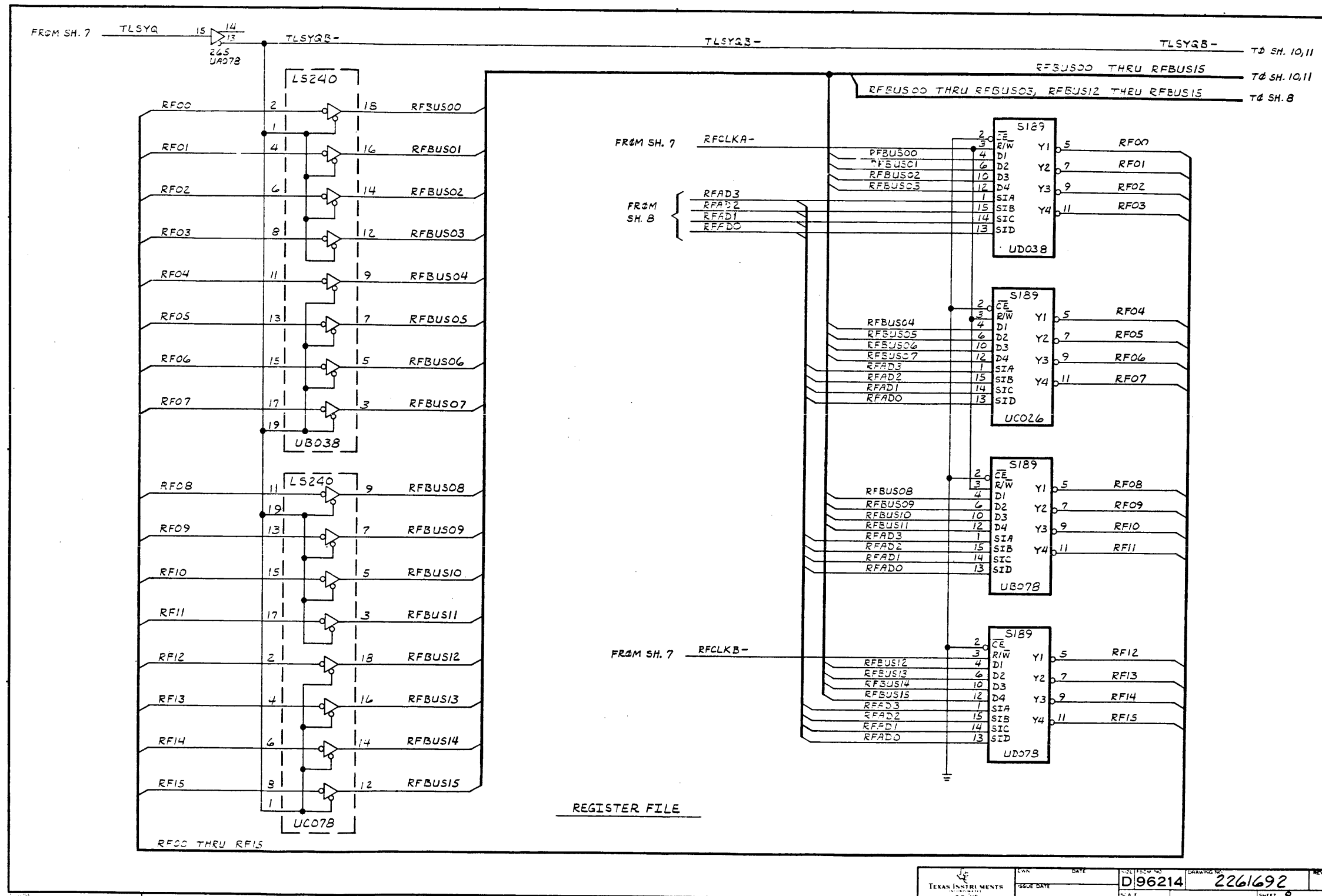




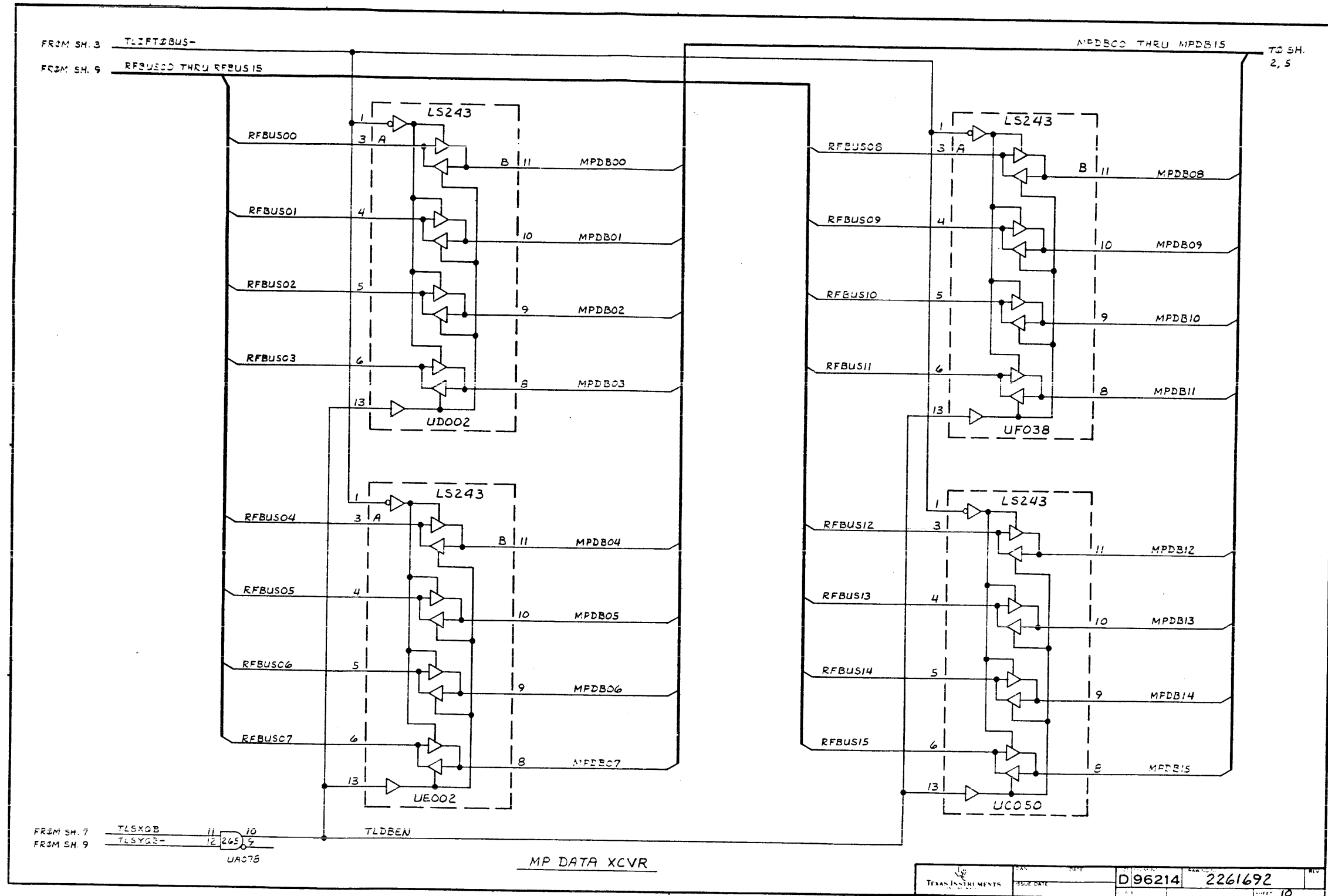


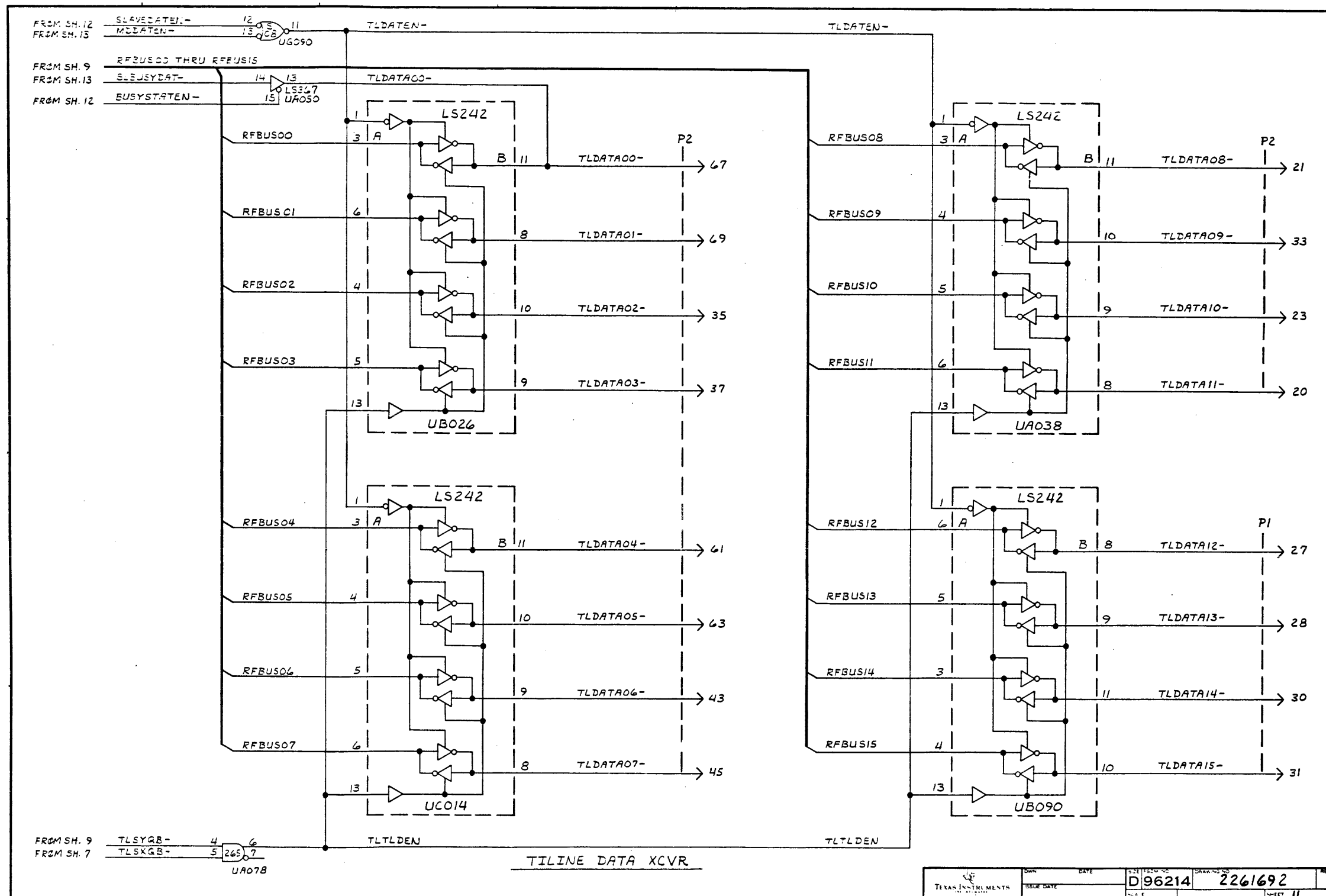
TEXAS INSTRUMENTS	DATE	REV	D96214	2261692	REV
ISSUE DATE					



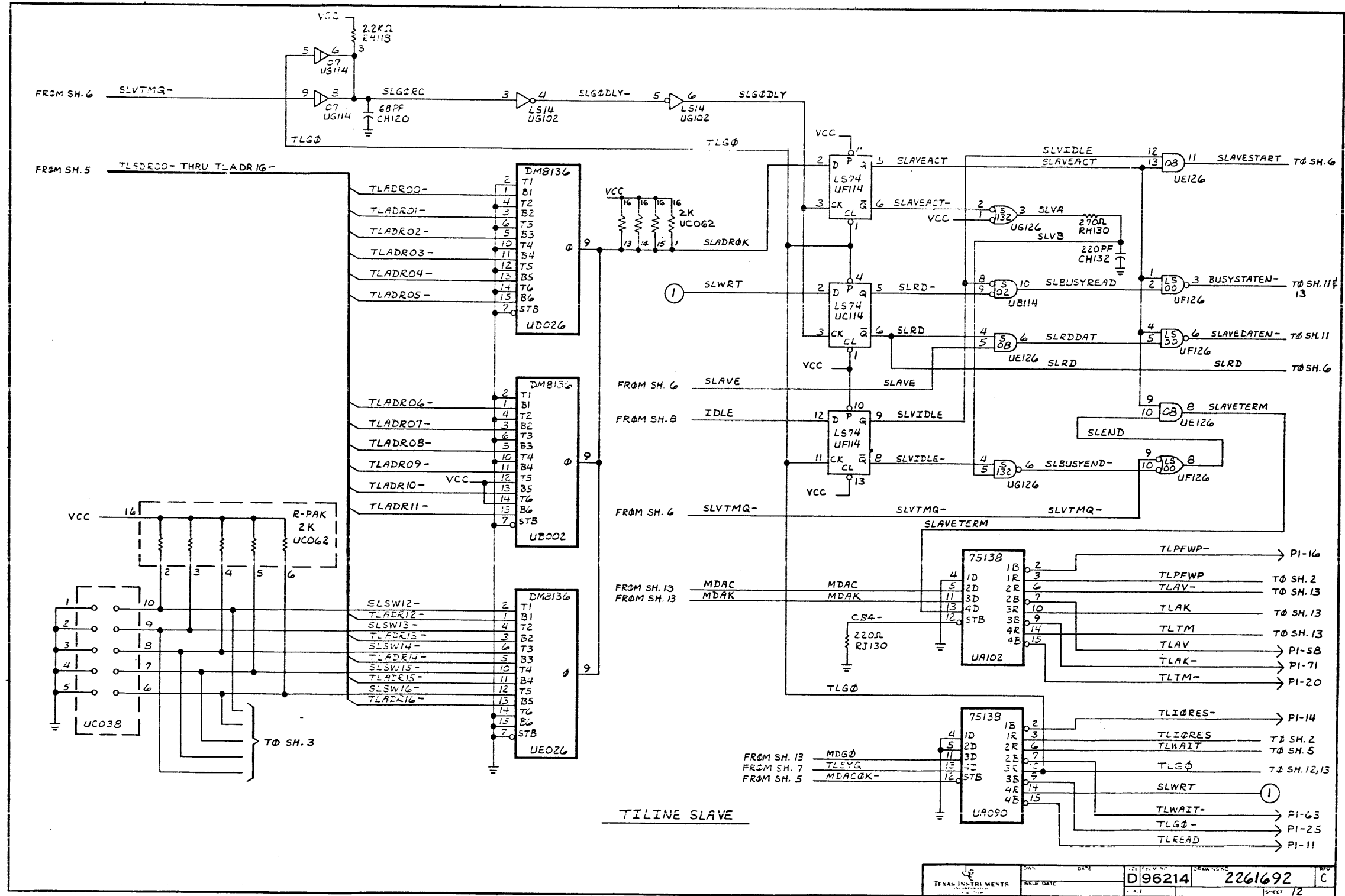


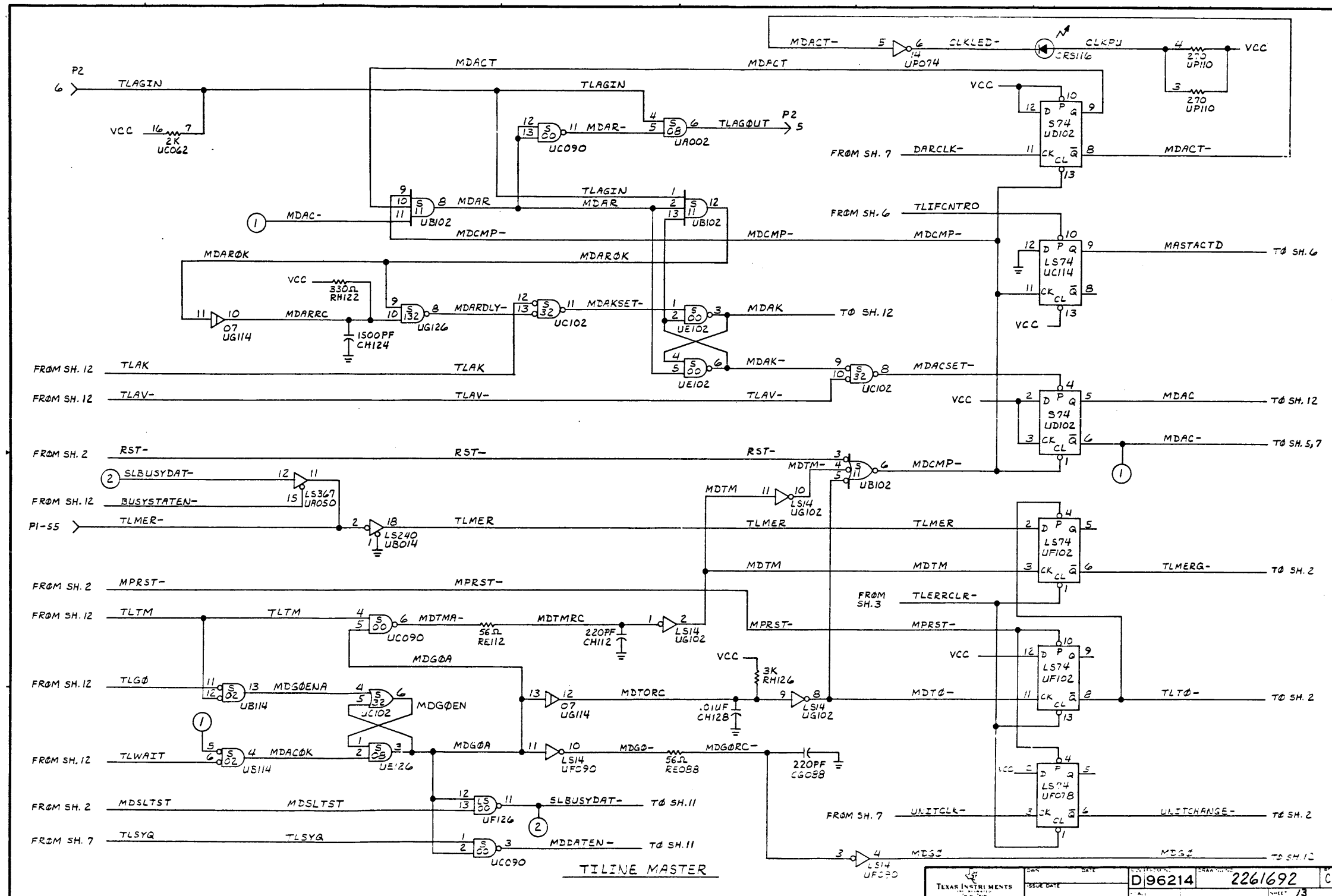
TILINE DS/DD Floppy Disk Interface Controller Logic Diagram

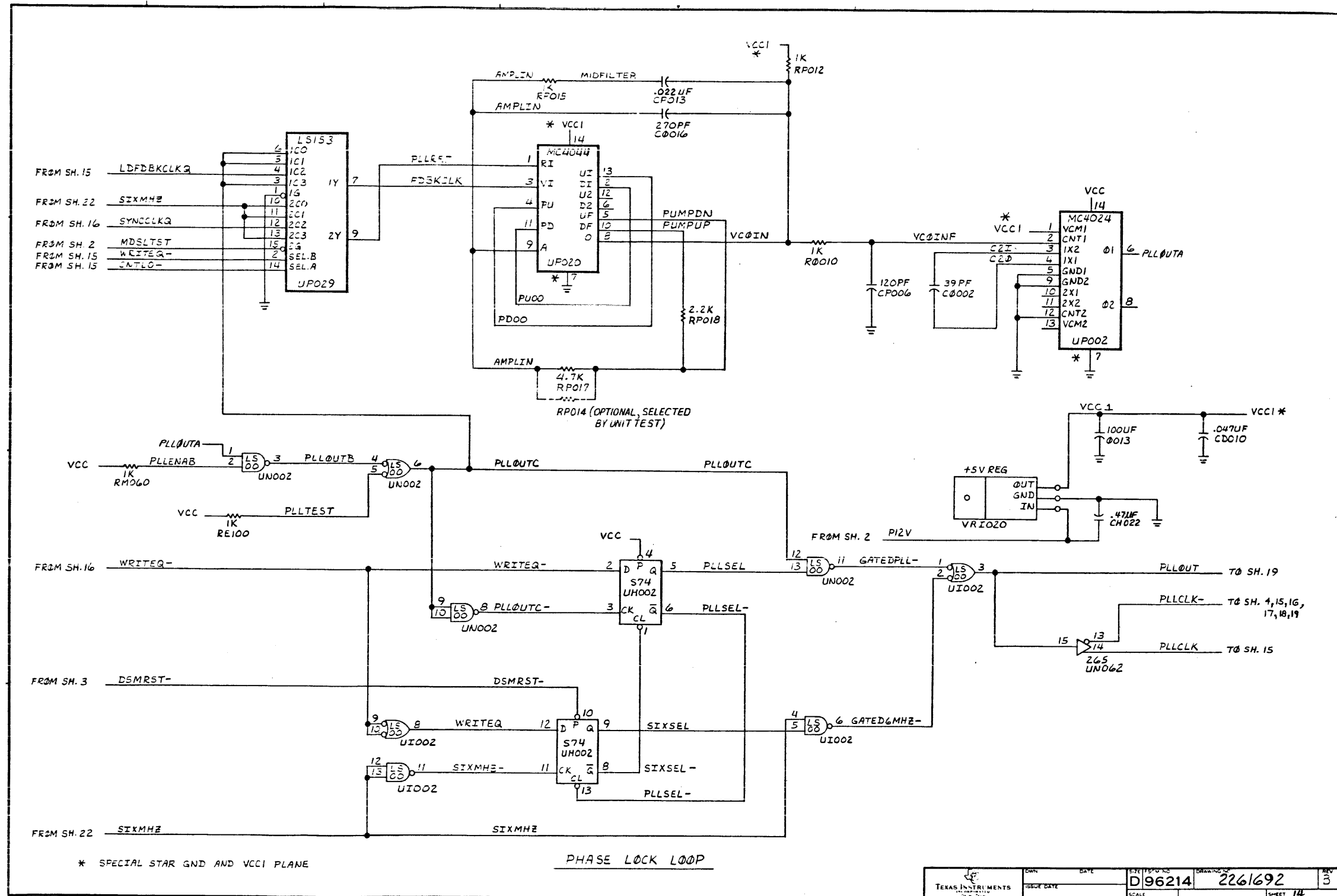


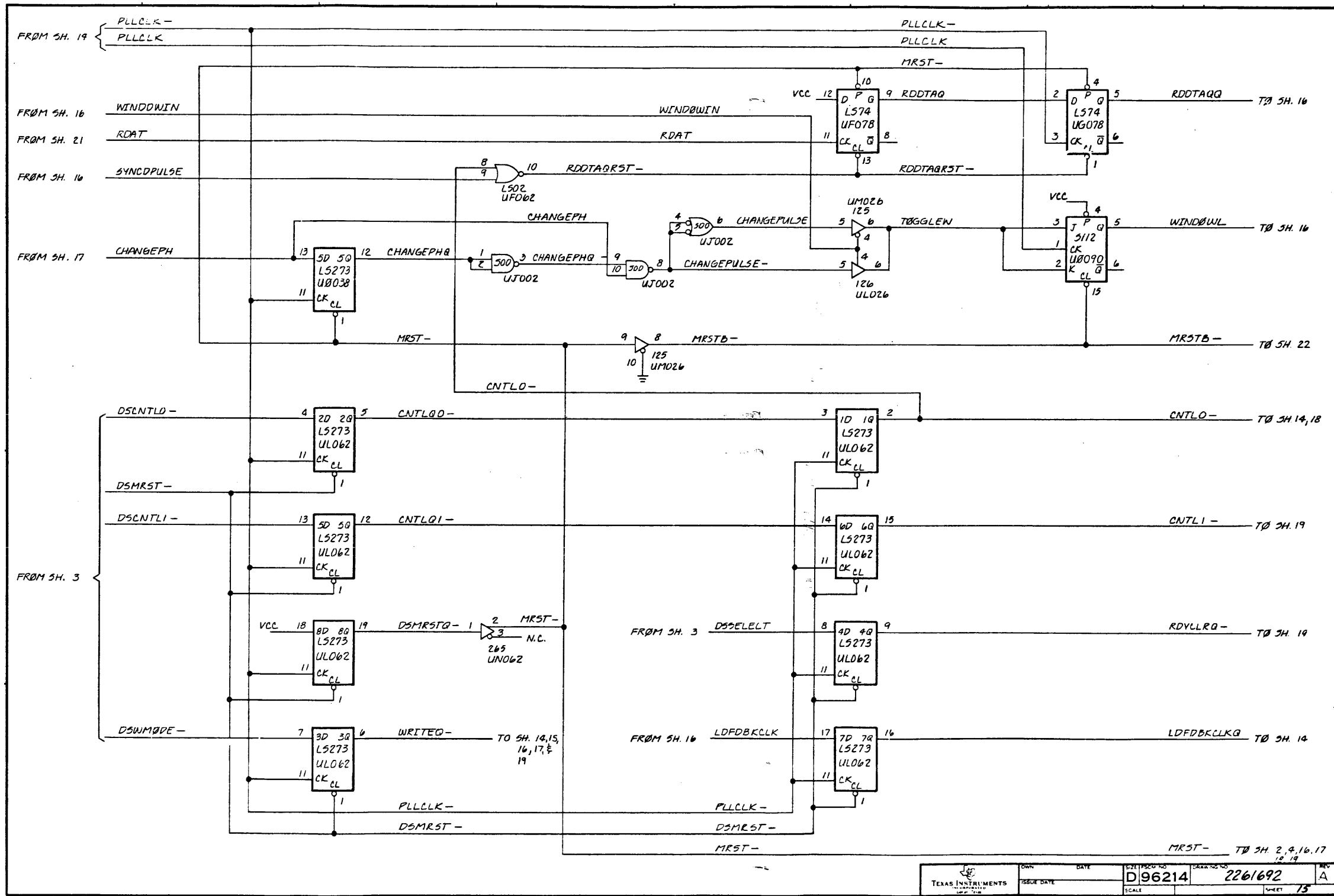


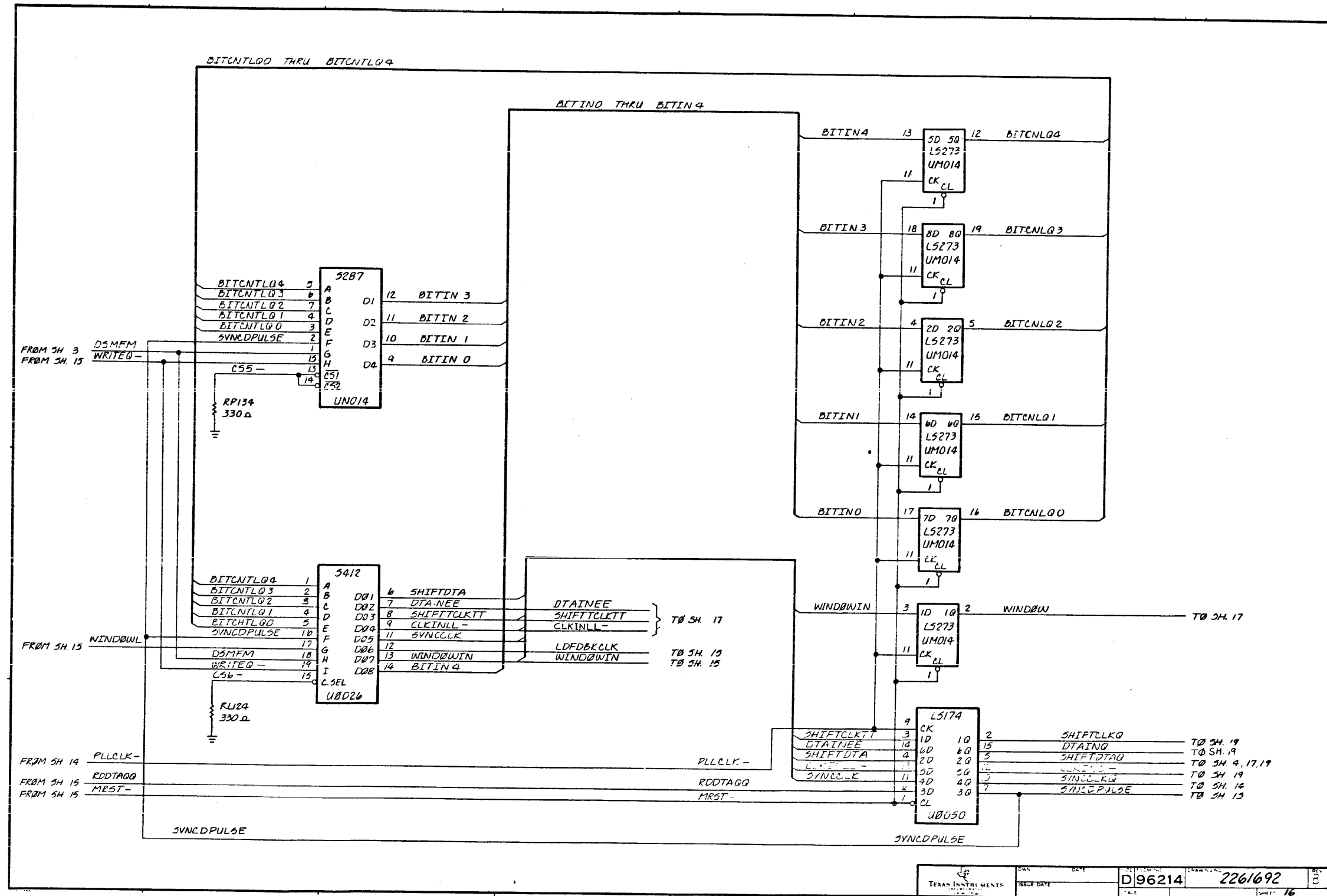


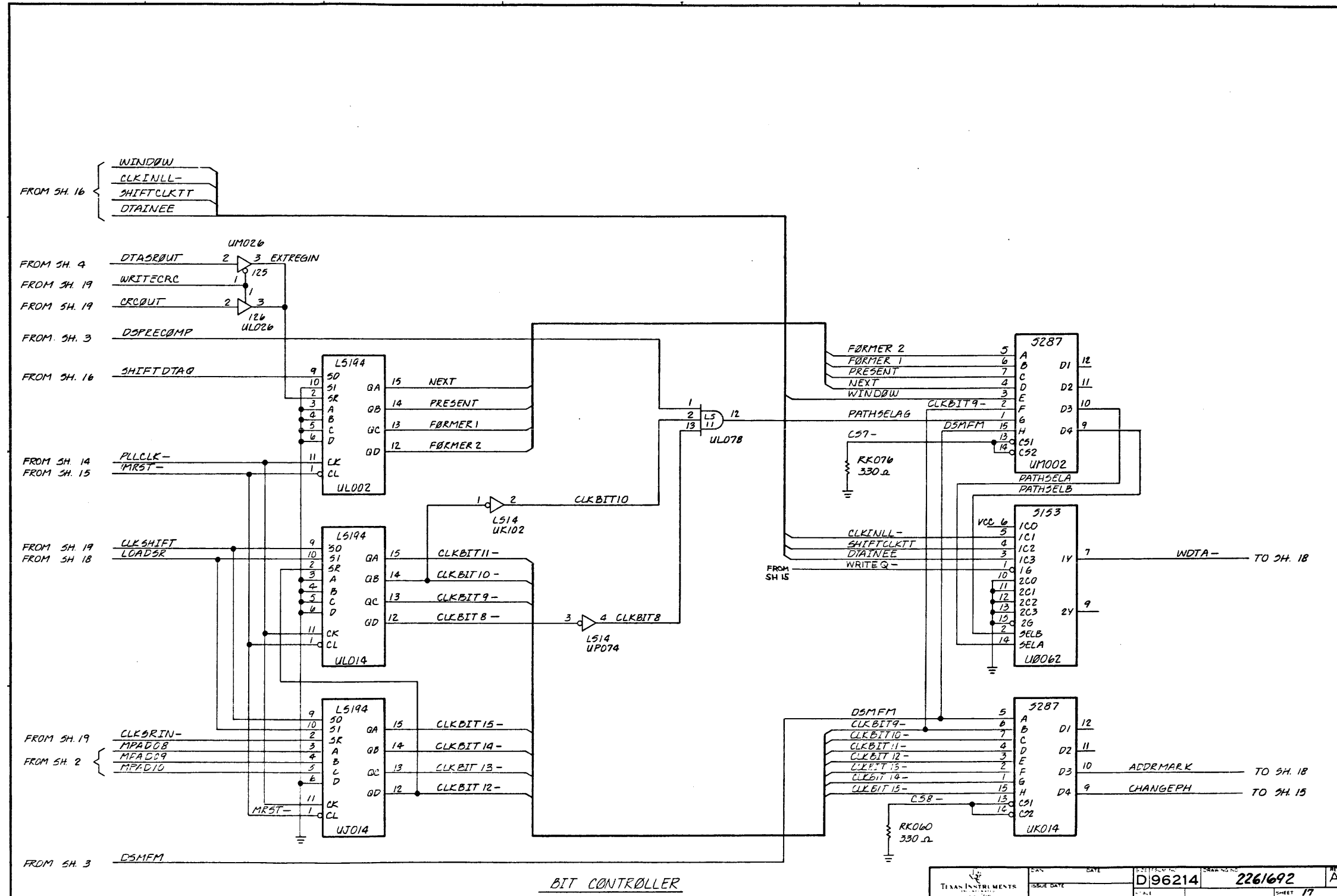




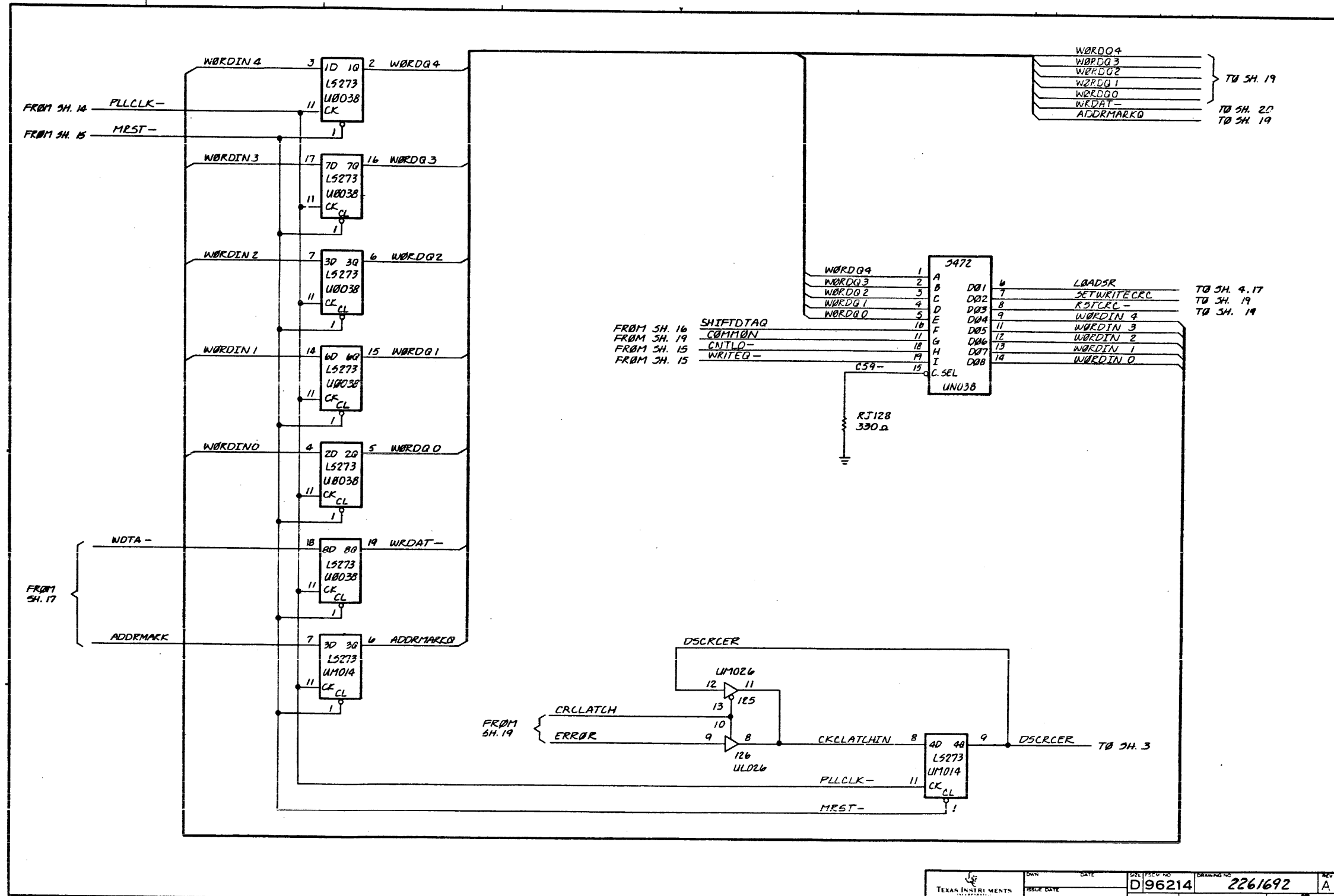


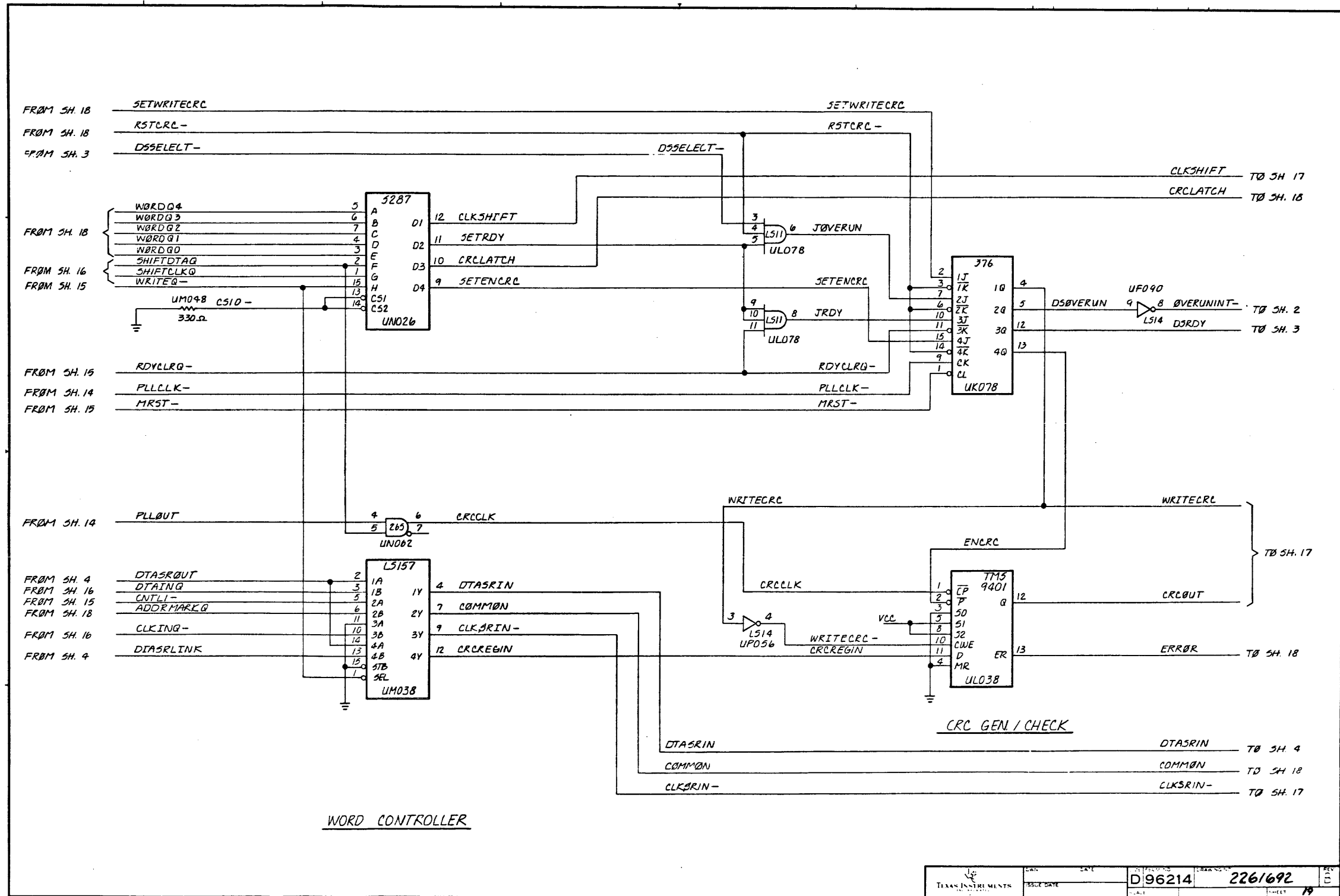






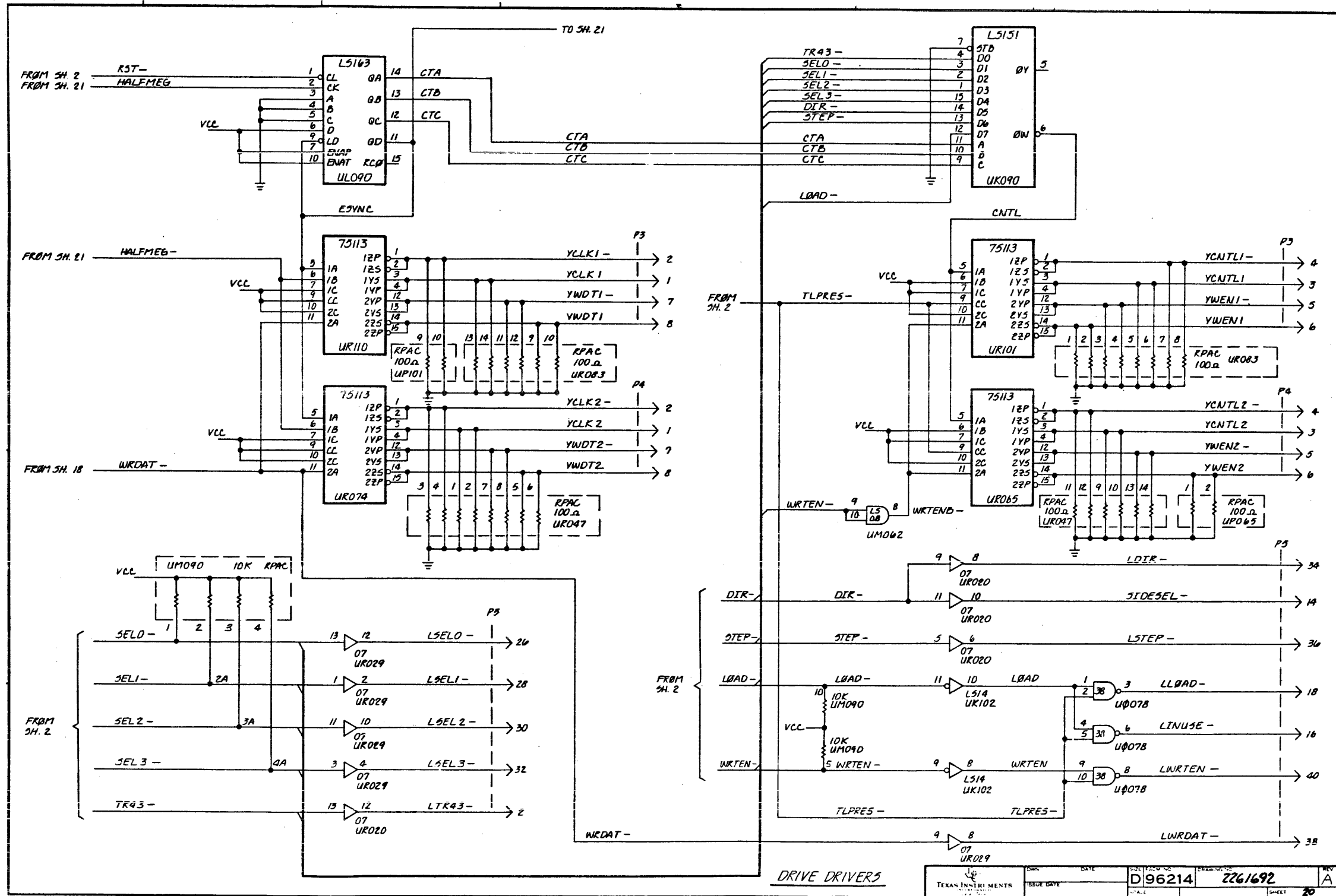
TILINE DS/DD Floppy Disk interface Controller Logic Diagram

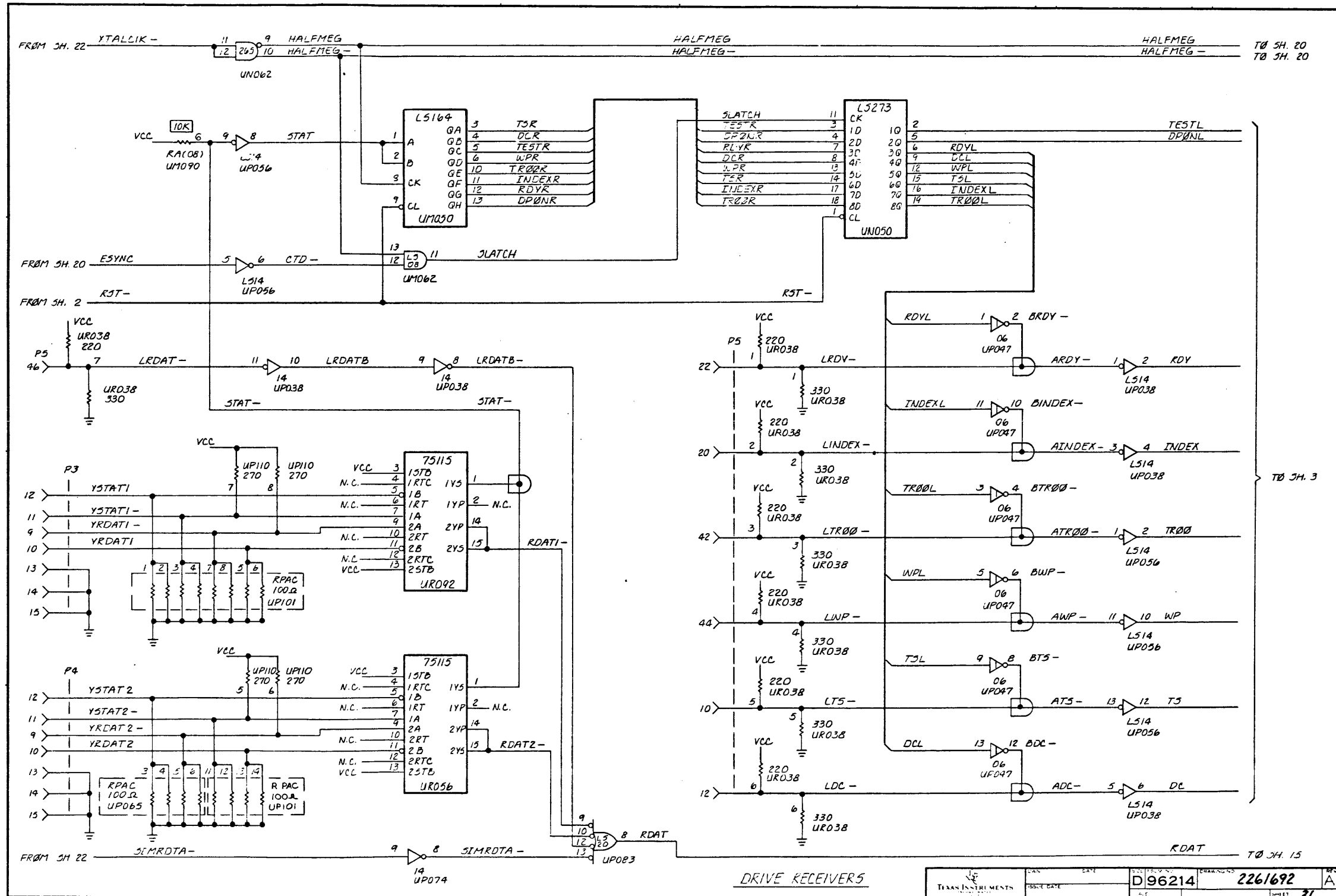


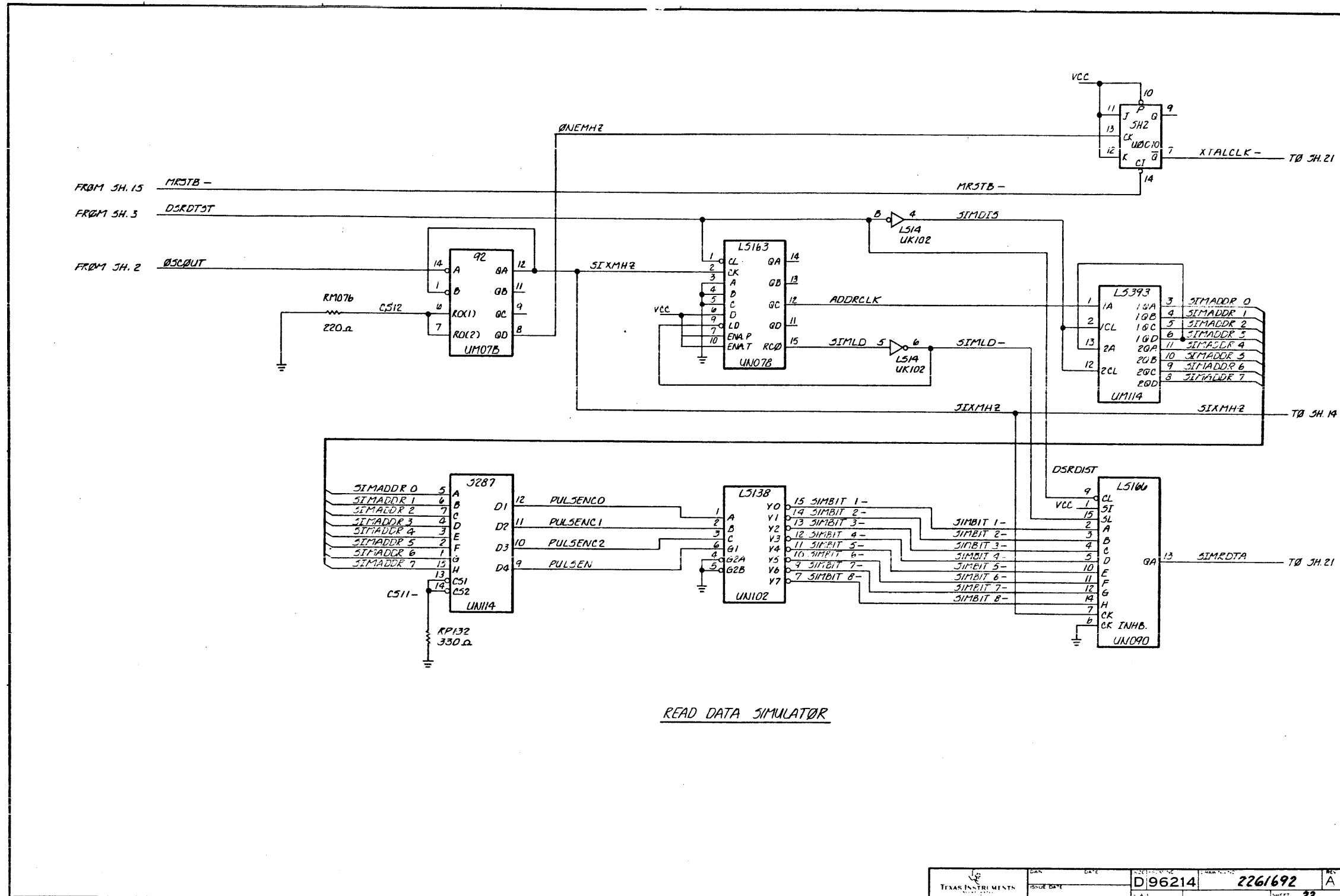


DESIGNED BY	DATE	REV. NO.	2261692	REV. C
TXS INSTRUMENTS	ISSUE DATE	D 96214		
				SHEET 19

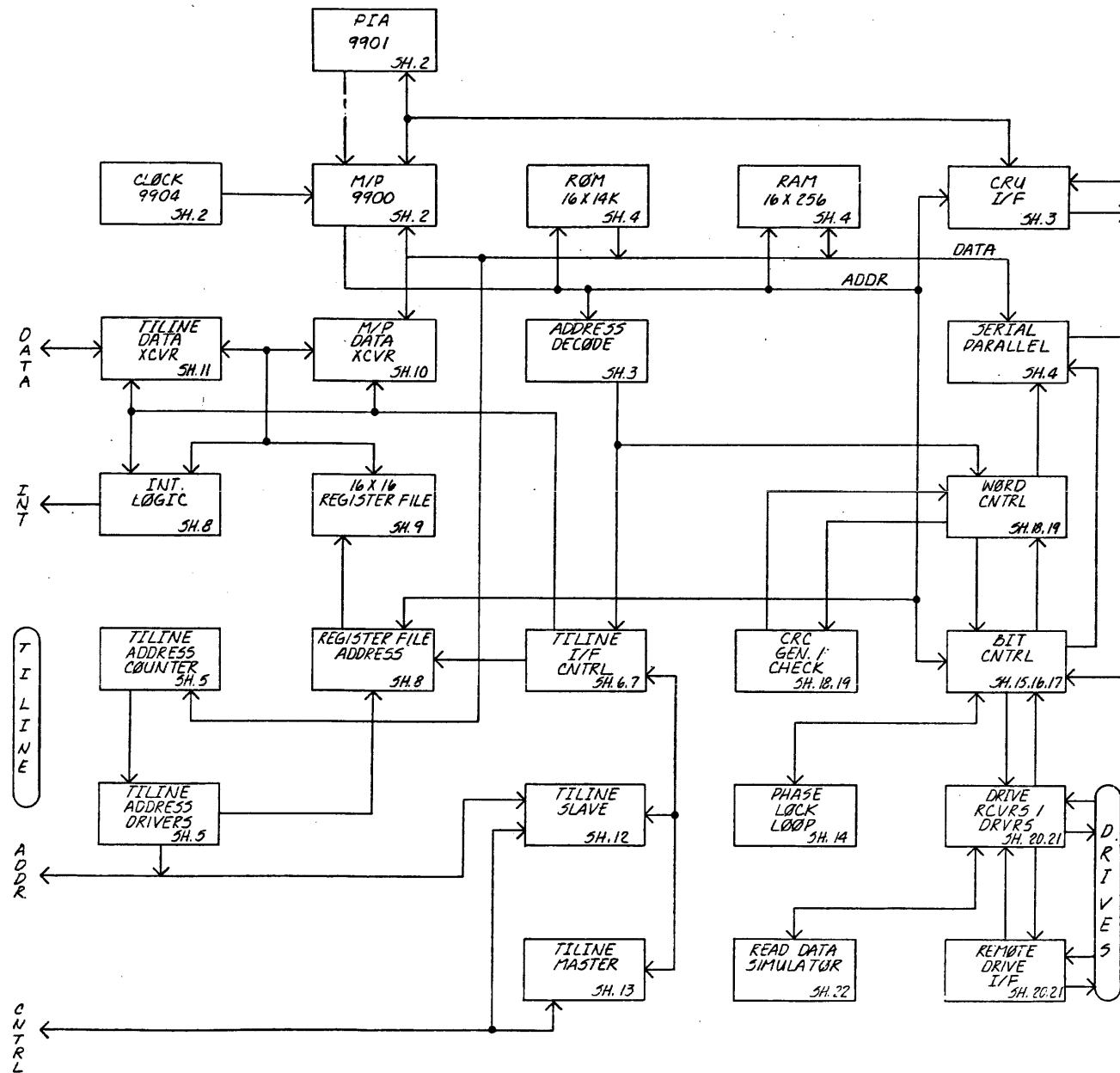








CONTROLLER BLOCK DIAGRAM



TEXAS INSTRUMENTS	DATE	ISSUE DATE	DOCUMENT NO.	REV.
			D96214	2261692
			23	E

APPLICATION		REVISIONS				
NEXT ASSY	USED ON	LTR	DESCRIPTION	DATE	APPROVED	
2261685	7508	A	CN436863 (E) <i>H. Joseph</i>	10-25-79	<i>J. Reed</i>	
		B	CN436865 (E) <i>H. Joseph</i> (1) TITLE WAS "CABLE, DATA, INTERCONNECT, FD1000 REMOTE FLEXIBLE DISK"	10-25-79	<i>J. Reed</i>	
		C	CN447101 (E) <i>H. Joseph</i> (1) ADDED SHT 8	11-5-79	<i>J. Reed</i>	
		D	CN435594(E) <i>J. Moore</i>	12-10-79	<i>J. Reed</i>	

SPECIFICATION CONTROL DRAWING

REV																				
SHEET																				
REV STATUS OF SHEETS	REV SHEET	D	A	D	A	C	A	D	C											
		1	2	3	4	5	6	7	8											

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES  
TOLERANCES  
ANGLES ±1°  
3 PLACE DECIMAL ±.010  
2 PLACE DECIMAL ±.02

IDENTIFYING NUMBERS SHOWN IN PARENTHESES FOR REFERENCE ONLY

INTERPRET DWG IN ACCORDANCE WITH MIL-STD-100

DWGN: *Debbi Kietzke* 10/9/78  
CHK: *E. Diaz* 12-7-78  
ENGR: *Mike Field* 10/16/78  
APVD: *Mike Field* 12/07/78  
CONTR NO

**TEXAS INSTRUMENTS**  
INCORPORATED  
Equipment Group Dallas, Texas

CABLE, DATA, INTERCONNECT,  
TFDC TO FD1000 FLEXIBLE DISK

SIZE	CODE IDENT NO	DRAWING NO
A	96214	2261704

DESIGN ACTIVITY RELEASE  
*Tommy Barley* 12-8-78  
*Mike Field* 12/17/78

SCALE NONE

SHEET 1 of 8

1.0 **SCOPE**

This specification covers the requirements for a data cable assembly used to interconnect the FD1000 Remote Flexible Disk Chassis and controller. This assembly shall have Underwriters Laboratories approval construction.

2.0 **APPLICABLE DOCUMENTS**

2.1 The following documents of the issue in effect on date of invitation for bids or request for proposal from a part of the specification to the extent specified herein. In the event of any conflict between this document and the reference documents, this document shall govern:

MIL-STD-105D Sampling Procedures and Tables for Inspection by Attributes  
MIL-G-45204 Gold Plating, Electro-Deposited  
QQ-N-290 Nickel Plating, Electro-Deposited  
QQ-B-626 Brass, Leaded and Nonleaded Flat Products (Plate, Bar Sheet & Strip)  
UL 478 Standard for Safety; Electronic Data Processing Units and Systems  
MIL-C-50 Copper Alloy, #260, Cartridge Brass, 70%, Sheet, Strip, Plate Bar & Discs  
QQ-B-750 Bronze, Phosphor, Bar, Plate, Rod, Sheet, Strip, Flat Wire, and Structural & Special Shaped Sections

3.0 **REQUIREMENTS**

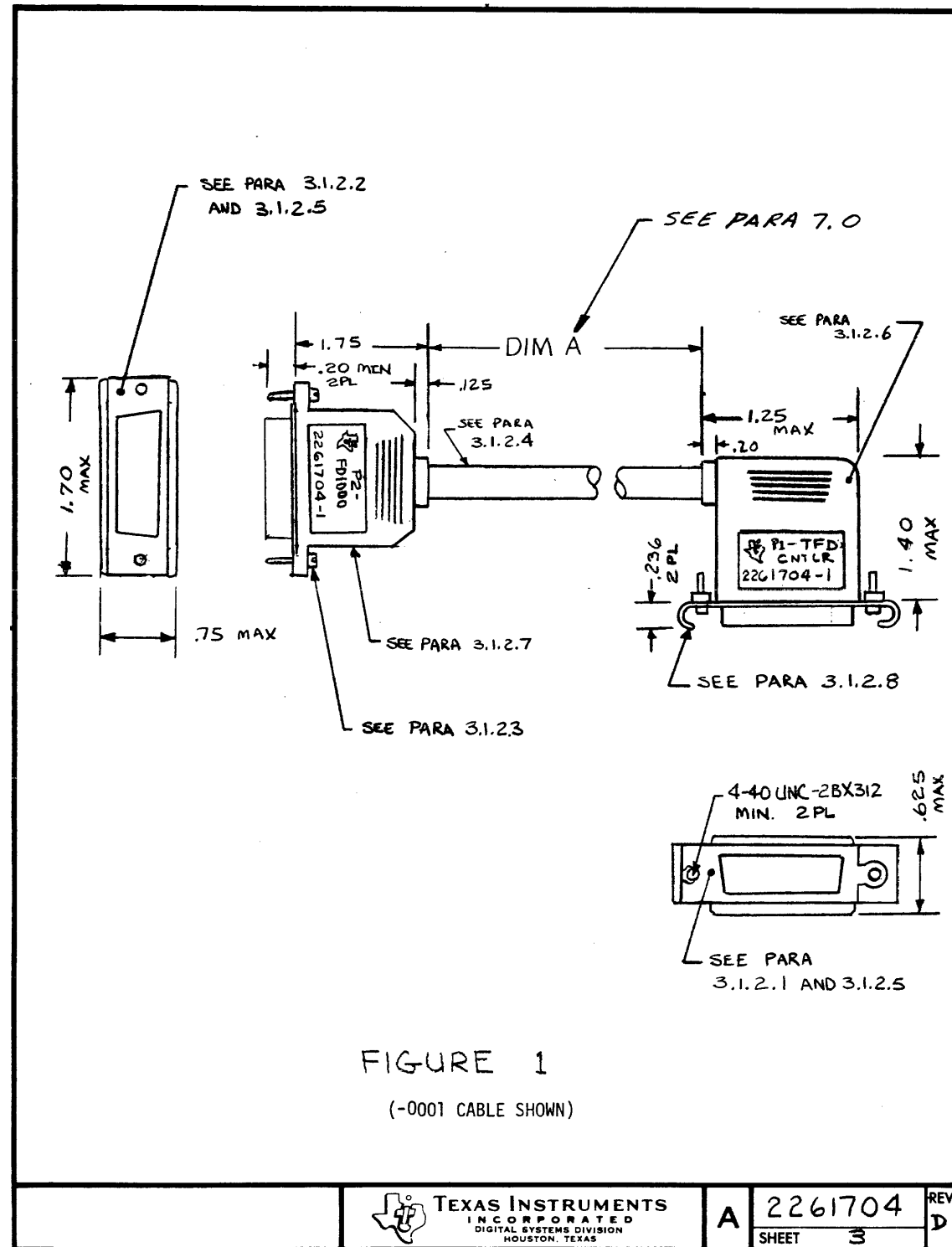
3.1 **Materials & Construction:**  
Materials, finishes, and marking for each part shall be as specified herein. When the materials or class of materials are not specified, a material shall be used which will enable the device to meet all the requirements of this drawing, Materials, finishes, and marking shall not blister, crack, flow or be adversely affected when exposed to the storage, operating or environmental conditions specified on this drawing.

3.1.1 **Physical Configuration**  
See Figure 1

3.1.2 **Material**

**TEXAS INSTRUMENTS**  
INCORPORATED  
DIGITAL SYSTEMS DIVISION  
HOUSTON, TEXAS

A 2261704 REV A  
SHEET 2



3.1.2.1 Shell, Standard D subminiature rectangular connector - 15 pin receptacle less contacts, AMP HDP-20 or equivalent. (Connector TI PN 539409-4 AMP 205205-1; 12 each contacts socket = TI 539430-4 AMP 205201-2).

3.1.2.2 Shell, Standard D subminiature rectangular connector - 15 pin receptacle less contacts, AMP HDP-20 or equivalent. (Connector TI PN 539409-4, AMP 205205-1, 15 each contacts socket TI PN = 539430 4 AMP 205201-2).

3.1.2.3 Screw, #4-40 NC - 2A thread Cadmium plated steel or equivalent. Screws must be held captive by molded hood (refer to paragraph 3.1.2.7). Two screws total are required.

3.1.2.4 Cable, twelve conductors (6 twisted pair). Cable consists of #24AWG stranded conductors in twisted pairs with a foil shield and drain wire encased in a protective jacket. Use cable equivalent to BELDON 9506, UL listed 300 Volts, 80°C.

3.1.2.4.1 Flexibility  
The cable shall permit a bend radius of 1.5 inches

3.1.2.4.2 Color Coding:  
The color coding of individual conductors shall be at the vendors option.

3.1.2.5 Contact, Socket  
Material : copper alloy per MIL-C-50 or brass per QQ-B626 or phosphor bronze per QQ-B-750.

Finish: Gold flash over .000030" (0.0008mm) nickel. Gold plated per MIL-G-45204; Nickel plated per QQ-N-290 (selective gold/nickel or gold/nickel finish may be substituted).

3.1.2.6 Hood, Molded:  
Cable entry at hood shall be 90 degrees. The drain wire shall be spliced to a 22 AWG ground wire with .250 type Faston (or equivalent) lug to exit the hood at the top of the cable entry collar. The length of the ground wire shall be 18 inches from the molded hood.

3.1.2.7 Hood, Molded:  
Cable entry at hood shall be 180 degrees. The hood shall hold retaining screws captive. This hood shall house a 24AWG jumper wire connecting pins 13 & 14 of the connector. The drain wire shall terminate on pin 15.

3.1.2.8 Sliding Lock Retainer: One required, includes sheet steel retainer plate, two screws L(#4-40 NC-2A thread) and two 4-40 nuts. Hardware has cadmium plate, yellow chromate finish, ITT Cannon Electric PN DA51220-1 or equivalent.

TEXAS INSTRUMENTS  
INCORPORATED  
DIGITAL SYSTEMS DIVISION  
HOUSTON, TEXAS

A 2261704 REV A  
SHEET 4

## 3.2 Markings

- 3.2.1 Hoods specified in paragraphs 3.1.2.6 and 3.1.2.7 shall be marked with the manufacturer's name or logo and part number. All lettering on the hoods shall have a height of no less than .09 inch, and the TI logo shall have a height of no less than .125 inch. The lettering illustrated in Figure 1 is for reference only, the actual placement of the markings on the hoods is at the vendor's discretion except that no markings are permitted on the ends or edges of the hoods.
- 3.2.2 The cable end terminated with the hood described in paragraph 3.1.2.7 shall be labeled with the following:  
 UL LISTED  
 E.D.P  
 CABLE  
 XXXX  
 (XXXX designates the cable manufacturer's UL Control Number)
- 3.2.3 The hood referenced in paragraph 3.1.2.6 shall be marked as follows:  
 P1 - TFD  
 CNTLR  
 TI P/N 2261704-Y  
 Where 'Y' is the last digit in the applicable TI dash number from paragraph 7.0.
- 3.2.4 The hood referenced in paragraph 3.1.2.7 shall be marked as follows:  
 P2 - FD1000  
 TI P/N 2261704-Y  
 Where 'Y' is the last digit in the applicable TI dash number from paragraph 7.0.
- 3.2.5 Cable reels within the manufacturer's facility shall be marked per UL 478 requirements.
- 3.3 UL Listing  
 The Cable assembly shall be UL Listed per the requirements of UL 478 for use as an external interconnecting cable with electronic data processing equipments. The supplier is responsible for obtaining and maintaining UL listing of the cable assembly.

4.0 QUALITY ASSURANCE PROVISIONS

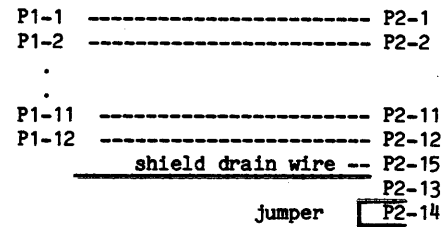
- 4.1 Responsibility for Inspection  
 Unless otherwise specified in the contract or purchase order, the supplier is responsible for the performance of all inspection requirements as specified herein. Except as otherwise specified in the contract order, the supplier may use his own or any other facilities suitable for the performance of the inspection requirements specified herein, unless disapproved by the procuring activity. The procuring activity reserves the right to perform any of the inspections set forth in the specification where such inspections are deemed necessary to assure supplies and services conform to prescribed requirements.
- 4.2 Inspection by Texas Instruments Incorporated  
 All items furnished to this specification shall meet the mechanical and electrical requirements specified herein subjected to receiving inspection at Texas Instruments Incorporated. The standard inspection sampling plan used at Texas Instruments, unless otherwise specified in the contract or purchase order, is a 1% AQL Single Sampling, General Inspection Level II and Normal Inspection per MIL-STD-105D. Failure of any sample to meet the requirements of this sampling plan shall be grounds for rejection of the entire lot. Rejected lots may be returned to the supplier for screening or may be screened at Texas Instruments, at the procuring activity's option, at the suppliers expense.
- 5.0 PREPARATION FOR DELIVERY
- 5.1 Packaging
- 5.1.1 Packaging shall be adequate to provide protection against any damage, breakage or loss during the shipment from the supply source to the ultimate using activity.

6.0 NOTES

6.1 Unless otherwise specified, all parts shall be marked with manufacturer's identification, manufacturer's part number, and date code or inspection lot or equivalent if space permits. If space does not permit part marking, the original protective envelope or wrapping shall contain the above required information.

6.2 Point to Point Pin Assignments  
 The multiple pair cable shall be straight through for pins 1-12 (each twisted pair shall connect to one odd # pin and one even, starting with pins 1 and 2).  
 The shield drain wire shall be connected to pin 15 on P2.

P2 (with the straight hood) shall have a jumper wire connecting pin 13 to 14.



7.0 Sources:

1. COMPONENT MANUFACTURING SERVICE, INC  
 Component Park  
 West Bridgewater, Mass 02379  
 TEL: 617-580-0111
2. SEMCOR, INCORPORATED  
 215 Royal Drive  
 P.O. Box 78  
 Georgetown, Texas 78626  
 TEL: 512-863-5586

TI	MFR PART NUMBER		DIM "A"
PART NUMBER	SOURCE 1	SOURCE 2	
2261704-0001			16' 5" ± 0'5" ( 5M ± .15M)
2261704-0002			32' 10" ± 0'5" ( 10M ± .15M)



A 2261704 REV D  
 SHEET 7

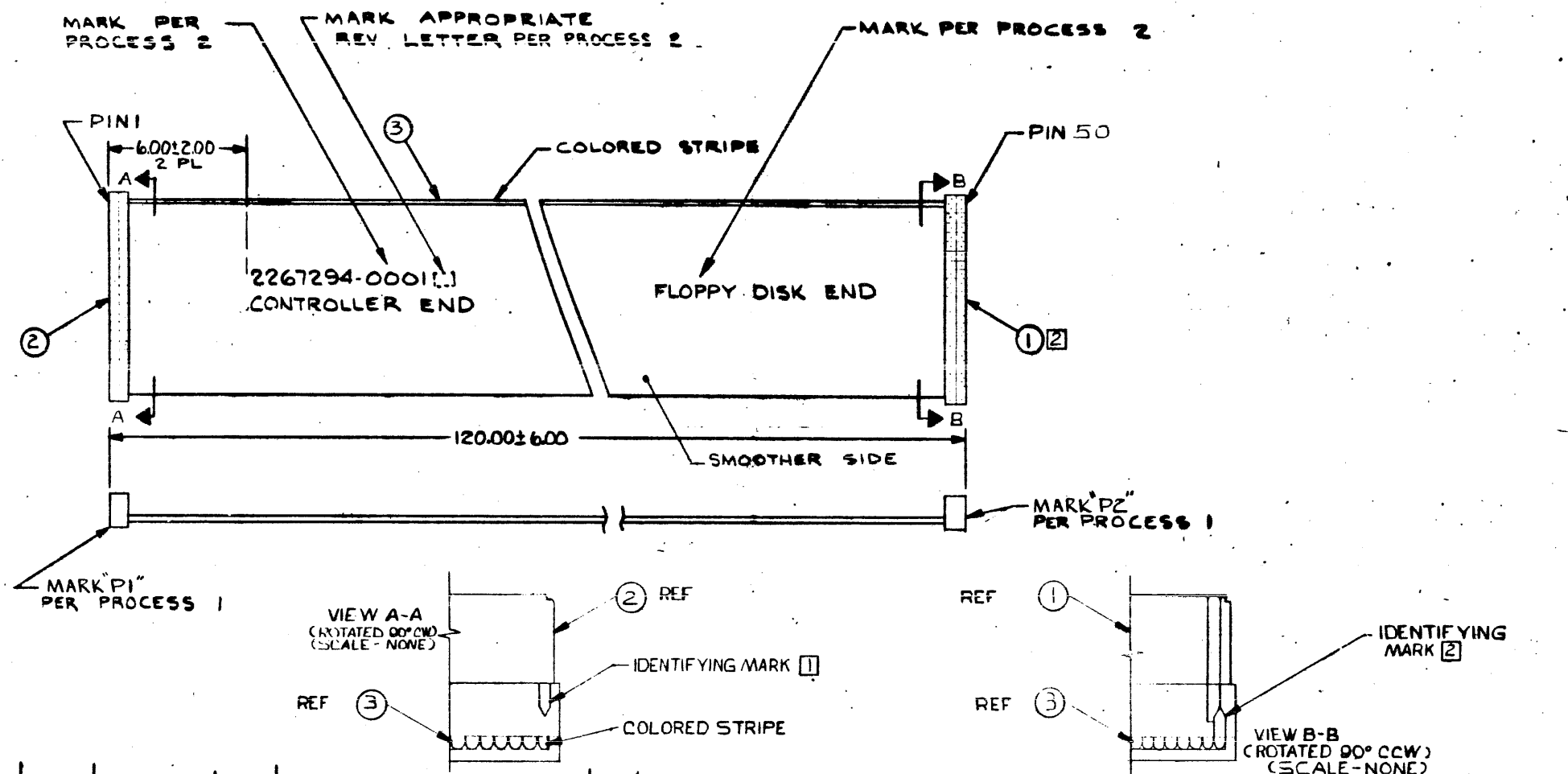


A 2261704 REV C  
 SHEET 8



- 1 THE IDENTIFYING MARK ON CONNECTOR P1 (VIEW A-A) IS ALIGNED WITH THE COLORED STRIPED (WIRE #1) ON THE CABLE
- 2 THE IDENTIFYING MARK ON CONNECTOR P2 (VIEW B-B) IS ON THE FAR SIDE OF THE CABLE (WIRE #50) FROM THE COLORED STRIPE

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
	A	CN-450900(CD) M. T. modified (1) ADDED VIEWS A-A & B-B TO DWG (2) CHANGED PIN 50 WAS PIN 1	10/18/79	E. D. [Signature]



SEQ NO	IDENT	F.SPEC	NO	ADDITIONAL	NOTES
1	MARK	100-02	21	HEIGHT .25, COLOR BLACK HEIGHT .125, COLOR WHITE	
2	MARK	100-02	21	HEIGHT .25, COLOR BLACK HEIGHT .125, COLOR WHITE	


PROCESSES — FOR CORRELATION TO GOVT/IND SPECIFICATIONS, SEE TI DRAWING 729467

PART NO	DESCRIPTION
2267294-5001	BULK MATERIAL FOR 2267294-0001
2267294-0001	CABLE ASSY, DATA, FDB00, SINGLE CHASSIS


UNLESS OTHERWISE SPECIFIED • DIMENSIONS ARE IN INCHES • TOLERANCES ANGLES 11° 3 PLACE DECIMALS ± 0.02 2 PLACE DECIMALS ± 0.02 • INTERPRET DRAWINGS PER MIL D 1000 • REMOVE ALL BURRS AND SHARP EDGES • CONCENTRICITY MACHINED DIAMETERS 0.10 P/M • DIMENSIONAL LIMITS APPLY BEFORE PROCESSES • PARENTHETICAL INFO FOR REF ONLY	HOLE TOLERANCE 013 THRU + 004 128 THRU + 008 251 THRU + 008 125 - 001 250 - 001 500 - 001	DWR: [Signature] 3 DATE: 6-13-79 CT: [Signature] 10-14-79 ENGR: [Signature] 10/15/79 DR: [Signature] 10/15/79 DES: [Signature] 10/15/79 CHECK: [Signature] 10/15/79 INSP: [Signature] 10/15/79 SCALE: 1/1	TEXAS INSTRUMENTS INCORPORATED Dallas, Texas CABLE ASSY, DATA, FDB00, SINGLE CHASSIS
	2267294-5001 2267294-0001 NEXT ASSY USED ON APPLICATION	7508 7508 7508	SITE FROM NO: C 96214 DRAWING NO: 2267294 SCALE: 1/1

TEXAS INSTRUMENTS INCORPORATED		DATE 06/14/79		LIST OF MATERIAL		PAGE 1 of 1		PART NUMBER LM226729-0001		REV A		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00001.000	EA		2210262-0009	CONN, PLZD AND DTT, RIBBON WIRE, 50 PINS	000779-SEE TI DWG						
0001A					P2							
0002	00001.000	EA		0996261-0008	CONNECTOR, RECEPT, 50 POS W/D STRAIN RELIEF	000779-88379-8						
0002A					P1							
0101	00001.000	EA		2267294-5001	BULK MATERIAL FOR 2267294-0001							
DRAFTSMAN		DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE					
			J. P. [Signature]	6-15-79			CABLE ASSY, DATA, FD800, SINGLE CHASSIS					
APPROV. ENG.		DATE	APPROV. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	7508	PART NUMBER	LM226729-0001	REV	A

TEXAS INSTRUMENTS INCORPORATED		DATE 06/14/79		LIST OF MATERIAL		PAGE 1 of 1		PART NUMBER LM226729-5001		REV A		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0003	00010.000	FT		0996491-0001	CABLE, FLAT, 50-CONDUCTOR, UL-2828	008261-455-240-50						
DRAFTSMAN		DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE					
							BULK MATERIAL FOR 2267294-0001					
APPROV. ENG.		DATE	APPROV. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.		PART NUMBER	LM226729-5001	REV	A

APPLICATION		REVISIONS			
NEXT ASSY	USED ON	REV	DESCRIPTION	DATE	APPROVED
2261685	7508				
<p>1.0 SCOPE: THIS DRAWING CONFIGURES AN INTERNATIONAL FLEX DISK CHASSIS TO A PARTICULAR VOLTAGE OPTION.</p> <p>NOTES: 1. ITEM 2 INSTALLED IN ITEM 1</p>					
REV					
SHEET					
REV STATUS OF SHEETS	REV SHEET	1	2		
UNLESS OTHERWISE SPECIFIED • DIMENSIONS ARE IN INCHES • TOLERANCES: ANGLES ±1° 3 PLACE DECIMALS ±.010 2 PLACE DECIMALS ±.02 • PARENTHEICAL INFO FOR REF ONLY	DWN	DATE	 <b>TEXAS INSTRUMENTS</b> INCORPORATED Dallas, Texas		
	10-22-79 10-23-79 11-1-79 11-13-79		FLEX DISK ASSY W/VOLTAGE KIT, FD1000, RACKMT/TABLE TOP		
CONTR	SIZE	FSCM NO	DRAWING NO		
RLSE	A	96214	2269938		
	SCALE	NONE	SHEET	1 OF 2	

PART NUMBER	DESCRIPTION
2269938-0020	CHASSIS, FD1000, T/T, DUAL, 100/60
-0019	CHASSIS, FD1000, T/T, SGL, 100/60
-0018	CHASSIS, FD1000, T/T, DUAL, 240/50
-0017	CHASSIS, FD1000, T/T, SGL, 240/50
-0016	CHASSIS, FD1000, T/T, DUAL, 220/50
-0015	CHASSIS, FD1000, T/T, SGL, 220/50
-0014	CHASSIS, FD1000, T/T, DUAL, 100/50
-0013	CHASSIS, FD1000, T/T, SGL, 100/50
-0012	CHASSIS, FD1000, T/T, DUAL, 120/60
-0011	CHASSIS, FD1000, T/T, SGL, 120/60
-0010	CHASSIS, FD1000, RKMT, DUAL, 100/60
-0009	CHASSIS, FD1000, RKMT, SGL, 100/60
-0008	CHASSIS, FD1000, RKMT, DUAL, 240/50
-0007	CHASSIS, FD1000, RKMT, SGL, 240/50
-0006	CHASSIS, FD1000, RKMT, DUAL, 220/50
-0005	CHASSIS, FD1000, RKMT, SGL, 220/50
-0004	CHASSIS, FD1000, RKMT, DUAL, 100/50
-0003	CHASSIS, FD1000, RKMT, SGL, 100/50
-0002	CHASSIS, FD1000, RKMT, DUAL, 120/60
2269938-0001	CHASSIS, FD1000, RKMT, SGL, 120/60

 <b>TEXAS INSTRUMENTS</b> INCORPORATED Dallas, Texas	DWN	DATE	SIZE	FSCM NO	DRAWING NO	REV
	ISSUE DATE		A	96214	2269938	
	SCALE				SHEET	2

TEXAS INSTRUMENTS INCORPORATED		DATE 10/16/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM2269938-0001		REV *		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEASURE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00001.000	EA		2265020-0001	FLEX DISK ASSY,RACKMOUNT,SINGLE 60HZ							
0002	00001.000	EA		2267288-0003	KIT,VOLTAGE SELECTION,120V 60HZ							
DRAFTSMAN		DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE					
APPRO. MFG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.					
				10-17-79			CHASSIS,FD1000,RKMT,SGL,120/60					
							7508					
							LM2269938-0001					

TEXAS INSTRUMENTS INCORPORATED		DATE 10/16/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM2269938-0002		REV *		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEASURE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00001.000	EA		2265020-0002	FLEX DISK ASSY,RACKMOUNT,DUAL 60HZ							
0002	00001.000	EA		2267288-0003	KIT,VOLTAGE SELECTION,120V 60HZ							
DRAFTSMAN		DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE					
APPRO. MFG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.					
							CHASSIS,FD1000,RKMT,DUAL,120/60					
							LM2269938-0002					

TEXAS INSTRUMENTS INCORPORATED		DATE 10/16/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM2269938-0003		REV *		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEASURE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00001.000	EA		2265020-0003	FLEX DISK ASSY,RACKMOUNT,SINGLE 50 HZ							
0002	00001.000	EA		2267288-0001	KIT,VOLTAGE SELECTION,100V 50HZ							
DRAFTSMAN		DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE					
APPRO. MFG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.					
							CHASSIS,FD1000,RKMT,SGL,100/50					
							LM2269938-0003					

TEXAS INSTRUMENTS INCORPORATED		DATE 10/16/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM2269938-0004		REV *		
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEASURE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00001.000	EA		2265020-0004	FLEX DISK ASSY,RACKMOUNT,DUAL 50HZ							
0002	00001.000	EA		2267288-0001	KIT,VOLTAGE SELECTION,100V 50HZ							
DRAFTSMAN		DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE					
APPRO. MFG.		DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.					
							CHASSIS,FD1000,RKMT,DUAL,100/50					
							LM2269938-0004					

TEXAS INSTRUMENTS INCORPORATED		DATE 10/16/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM2269938-0005		REV *		
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00001.000	EA		2265020-0003	FLEX DISK ASSY,RACKMOUNT,SINGLE 50 HZ							
0002	00001.000	EA		2267288-0004	KIT,VOLTAGE SELECTION,220V 50HZ							
DRAFTSMAN		DATE	CKD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	CHASSIS,FD1000,RKMT,SGL,220/50				
APPD. ENG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM2269938-0005		REV *		

TEXAS INSTRUMENTS INCORPORATED		DATE 10/16/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM2269938-0006		REV *		
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00001.000	EA		2265020-0004	FLEX DISK ASSY,RACKMOUNT,DUAL 50HZ							
0002	00001.000	EA		2267288-0004	KIT,VOLTAGE SELECTION,220V 50HZ							
DRAFTSMAN		DATE	CKD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	CHASSIS,FD1000,RKMT,DUAL,220/50				
APPD. ENG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM2269938-0006		REV *		

TEXAS INSTRUMENTS INCORPORATED		DATE 10/16/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM2269938-0007		REV *		
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00001.000	EA		2265020-0003	FLEX DISK ASSY,RACKMOUNT,SINGLE 50 HZ							
0002	00001.000	EA		2267288-0005	KIT,VOLTAGE SELECTION,240V 50HZ							
DRAFTSMAN		DATE	CKD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	CHASSIS,FD1000,RKMT,SGL,240/50				
APPD. ENG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM2269938-0007		REV *		

TEXAS INSTRUMENTS INCORPORATED		DATE 10/16/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM2269938-0008		REV *		
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00001.000	EA		2265020-0004	FLEX DISK ASSY,RACKMOUNT,DUAL 50HZ							
0002	00001.000	EA		2267288-0005	KIT,VOLTAGE SELECTION,240V 50HZ							
DRAFTSMAN		DATE	CKD DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	CHASSIS,FD1000,RKMT,DUAL,240/50				
APPD. ENG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM2269938-0008		REV *		

TEXAS INSTRUMENTS INCORPORATED		DATE 10/16/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM2269938-0009		REV *		
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00001.000	EA		2265020-0001	FLEX DISK ASSY,RACKMOUNT,SINGLE 60HZ							
0002	00001.000	EA		2267288-0002	KIT,VOLTAGE SELECTION,100V 60HZ							
DRAFTSMAN				DATE	CDR. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CHASSIS,FD1000,RKMT,SGL,100/60			
APPD. MFG.				DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM2269938-0009		REV *

TEXAS INSTRUMENTS INCORPORATED		DATE 10/16/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM2269938-0010		REV *		
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00001.000	EA		2265020-0002	FLEX DISK ASSY,RACKMOUNT,DUAL 60HZ							
0002	00001.000	EA		2267288-0002	KIT,VOLTAGE SELECTION,100V 60HZ							
DRAFTSMAN				DATE	CDR. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CHASSIS,FD1000,RKMT,DUAL,100/60			
APPD. MFG.				DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM2269938-0010		REV *

TEXAS INSTRUMENTS INCORPORATED		DATE 10/16/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM2269938-0011		REV *		
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00001.000	EA		2265019-0001	FLEX DISK ASSY,TABLE TCP,SINGLE 60HZ							
0002	00001.000	EA		2267288-0003	KIT,VOLTAGE SELECTION,120V 60HZ							
DRAFTSMAN				DATE	CDR. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CHASSIS,FD1000,T/T,SGL,120/60			
APPD. MFG.				DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM2269938-0011		REV *

TEXAS INSTRUMENTS INCORPORATED		DATE 10/16/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM2269938-0012		REV *		
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00001.000	EA		2265019-0002	FLEX DISK ASSY,TABLE TCP,DUAL 60HZ							
0002	00001.000	EA		2267288-0003	KIT,VOLTAGE SELECTION,120V 60HZ							
DRAFTSMAN				DATE	CDR. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CHASSIS,FD1000,T/T,DUAL,120/60			
APPD. MFG.				DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM2269938-0012		REV *

TEXAS INSTRUMENTS INCORPORATED		DATE 10/16/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM2269938-0013		REV *	
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DRWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00001.000	EA		2265019-0003	FLEX DISK ASSY, TABLE TCP, SINGLE 50HZ						
0002	00001.000	EA		2267288-0001	KIT, VOLTAGE SELECTION, 100V 50HZ						

DRAFTSMAN	DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	CHASSIS, FD1000, T/T, SGL, 100/50				
APPD. MFG.	DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM2269938-0013		REV *		

TEXAS INSTRUMENTS INCORPORATED		DATE 10/16/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM2269938-0014		REV *	
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DRWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00001.000	EA		2265019-0004	FLEX DISK ASSY, TABLE TCP, DUAL 50HZ						
0002	00001.000	EA		2267288-0001	KIT, VOLTAGE SELECTION, 100V 50HZ						

DRAFTSMAN	DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	CHASSIS, FD1000, T/T, DUAL, 100/50				
APPD. MFG.	DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM2269938-0014		REV *		

TEXAS INSTRUMENTS INCORPORATED		DATE 10/16/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM2269938-0015		REV *	
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DRWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00001.000	EA		2265019-0003	FLEX DISK ASSY, TABLE TOP, SINGLE 50HZ						
0002	00001.000	EA		2267288-0004	KIT, VOLTAGE SELECTION, 220V 50HZ						

DRAFTSMAN	DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	CHASSIS, FD1000, T/T, SGL, 220/50				
APPD. MFG.	DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM2269938-0015		REV *		

TEXAS INSTRUMENTS INCORPORATED		DATE 10/16/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM2269938-0016		REV *	
ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DRWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00001.000	EA		2265019-0004	FLEX DISK ASSY, TABLE TCP, DUAL 50HZ						
0002	00001.000	EA		2267288-0004	KIT, VOLTAGE SELECTION, 220V 50HZ						

DRAFTSMAN	DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	CHASSIS, FD1000, T/T, DUAL, 220/50				
APPD. MFG.	DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM2269938-0016		REV *		

TEXAS INSTRUMENTS INCORPORATED		DATE 10/16/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM2269938-0017		REV *		
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00001.000	EA		2265019-0003	FLEX DISK ASSY, TABLE TCP, SINGLE 50HZ							
0002	00001.000	EA		2267288-0005	KIT, VOLTAGE SELECTION, 240V 50HZ							
DRAFTSMAN		DATE	CDR. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CHASSIS, FD1000, T/T, SGL, 240/50					
APPD. MFG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM2269938-0017		REV *		

TEXAS INSTRUMENTS INCORPORATED		DATE 10/16/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM2269938-0018		REV *		
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00001.000	EA		2265019-0004	FLEX DISK ASSY, TABLE TCP, DUAL 50HZ							
0002	00001.000	EA		2267288-0005	KIT, VOLTAGE SELECTION, 240V 50HZ							
DRAFTSMAN		DATE	CDR. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CHASSIS, FD1000, T/T, DUAL, 240/50					
APPD. MFG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM2269938-0018		REV *		

TEXAS INSTRUMENTS INCORPORATED		DATE 10/16/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM2269938-0019		REV *		
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00001.000	EA		2265019-0001	FLEX DISK ASSY, TABLE TCP, SINGLE 60HZ							
0002	00001.000	EA		2267288-0002	KIT, VOLTAGE SELECTION, 100V 60HZ							
DRAFTSMAN		DATE	CDR. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CHASSIS, FD1000, T/T, SGL, 100/60					
APPD. MFG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM2269938-0019		REV *		

TEXAS INSTRUMENTS INCORPORATED		DATE 10/16/79		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM2269938-0020		REV *		
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0001	00001.000	EA		2265019-0002	FLEX DISK ASSY, TABLE TCP, DUAL 60HZ							
0002	00001.000	EA		2267288-0002	KIT, VOLTAGE SELECTION, 100V 60HZ							
DRAFTSMAN		DATE	CDR. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE CHASSIS, FD1000, T/T, DUAL, 100/60					
APPD. MFG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER LM2269938-0020		REV *		



NOTES: UNLESS OTHERWISE SPECIFIED:  
 1 LOCATE ITEM 15 OVER HOLES LOCATED ON BOTTOM OF ITEM 6.  
 2 INSTALL ITEM 17 APPROXIMATELY AS SHOWN  
 3 ITEM 19 INSTALLED PER DRAWING NO 2271669

SECTION B-B (WITHOUT ITEM 1)

SECTION C-C SCALE: NONE

VIEW A-A

-0001 & -0003 SHOWN

REV	DESCRIPTION	DATE	APPROVED
A	CN454575(D) (1) LM, ADDED ITEM 17 (2) NOTE 2 WAS 'INSTALL ITEM 16' (3) ADDED ITEM 17 TO VIEW A-A	8-9-79	J. P. Lee
B	CN462353(B) (1) ADDED ITEM 18 (2) CALLOUT PICTORIAL TO SECT B-B (3) ZNC-5 DELETED ITEM (4) CALLOUT (5) ZNC-5 ADDED ITEM 18 (6) ZREAD CALLOUT (7) CHANGED ITEM 19 WAS (8) RECD (9) HOLE (10) DELETED ITEM 12 (11) PICTORIAL CALLOUT (12) (13) ADDED SECT C-C (14) LM -0001 & -0003 ITEM QTY WAS 1 (15) ITEM 12 QTY WAS 6 (16) LM -0001-0004 ITEM 17 QTY WAS 6 AND DELETED ITEM 12 (17) LM ALL DASH NO. ADDED ITEM 18 (18) LM ALL DASH NO. ITEM 15 QTY WAS 4	1-9-80	J. P. Lee
C	CN462379(C) (1) LM ALL DASH NO ITEM 19 WAS 972679-0013	1-9-80	J. P. Lee
D	CN462722 (B) RGVDRY (1) ADDED ITEM 19 TO LM -1, -2, -3, & (2) ADDED NOTE (3) (3) OPENED CUTOUT TO VIEW ITEM 19 IN ZB2	3-5-80	A. R. Lee
E	CN462597 (B) (1) ON ALL DASH NO. LM'S DELETED ITEM 16 (2) ON F/D & DS DELETED ITEM (3) (4) PICTORIAL OF ITEM 16 (5) DELETED ITEM 16 FROM NOTE 2	4-9-80	A. R. Lee

2265019-0004	FLEX DISK ASSY, TABLE TOP, DUAL 50 HZ
-0003	SINGLE 50 HZ
-0002	DUAL 60 HZ
2265019-0001	FLEX DISK ASSY, TABLE TOP, SINGLE 60 HZ
PART NUMBER	DESCRIPTION

ITEM QTY	ITEM NO	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION	NOTES

UNLESS OTHERWISE SPECIFIED:  
 DIMENSIONS ARE IN INCHES  
 TOLERANCES ANGLES ± .1°  
 3 PLACE DECIMALS = .010  
 2 PLACE DECIMALS = .02  
 INTERPRET DRAWING PER MIL D 1000  
 REMOVE ALL BURRS AND SHARP EDGES  
 CONCENTRICITY MACHINED DIAMETERS .010 F/M  
 DIMENSIONAL LIMITS APPLY BEFORE PROCESSES  
 PARENTHEetical INFO FOR REF ONLY

HOLE TOLERANCE  
 THRU .004 THRU .005 THRU .006  
 125 .001 250 .001 500 .001  
 501 THRU .008 THRU .010 THRU .012  
 750 .001 1.000 .001 2.000 .001

3/11/79  
 J. P. Lee  
 5/23/79  
 A. R. Lee  
 5-29-75  
 J. P. Lee

TEXAS INSTRUMENTS INCORPORATED Dallas, Texas

FLEX DISK ASSY, TABLE TOP

96214 2265019

SEQ NO	IDENT	F-SPEC	NO	ADDITIONAL CLASSIFICATION	NOTES

PROCESSES - FOR CORRELATION TO GOVT AND SPECIFICATIONS SEE TI DRAWING 72467

TEXAS INSTRUMENTS INCORPORATED		DATE 03/31/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM2265019-0001		REV E	
PART NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00001.000	EA		2265038-0001	CHASSIS SUB-ASSY,FLEX DISK,SINGLE 60HZ						
0002	00001.000	EA		2265036-0001	SIDE PANEL,TABLE TOP CHASSIS,7 IN,RIGHT						
0003	00001.000	EA		2265036-0002	SIDE PANEL,TABLE TOP CHASSIS,7 INCH,LEFT						
0004	00001.000	EA		2265031-0001	COVER,TABLE TOP CHASSIS,7 INCH						
0005	00002.000	EA		2265041-0001	AIR FILTER						
0006	00001.000	EA		2265029-0001	CHASSIS,7 INCH						
0007	00001.000	EA		2265032-0001	FRONT PANEL,FLEX DISK DRIVE						
0008	00001.000	EA		2267282-0001	OVERLAY,D/D FRONT PANEL,DUAL DRIVE						
0009	00008.000	EA		0972679-0014	SCREW,6-19 X 5/8 LG SLOTTED HEX						
0010	00008.000	EA		0996740-0022	SENS SCREW,THD FORM,SLTD HXHD,1/2L, 10	-SEE DRAWING					
0011	00001.000	EA		2267283-0001	PANEL,BLANK,FLEX DRIVE FRONT PANEL						
0012	00002.000	EA		2210176-0001	FASTENER,DART	078553-03619-012-67					
0013	00006.000	EA		0972684-0018	SCREW 8-32 X 3/8 THD FRM,SLOT HX WSR HD						
0014	00002.000	EA		0972684-0011	SCREW, THREAD FORMING, #6-32						
0015	00005.000	EA		0996219-0001	BUMPER,ADHESIVE	MM - SJ5023					
0017	00001.000	EA		2269933-0003	LABEL,S/N,F01000A T/T INTL CHASSIS						
0018	00002.000	EA		2269937-0001	RETAINER BRACKET,SIDE PANEL						
0019	00001.000	EA		2271669-0001	KIT,DS1 INTERFACE						
DRAFTSMAN	DATE	CDR. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE FLEX DISK ASSY, TABLE TOP, SINGLE 60HZ					
APPROV. ENG.	DATE	APPROV. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	7508	PART NUMBER	LM2265019-0001	REV	E

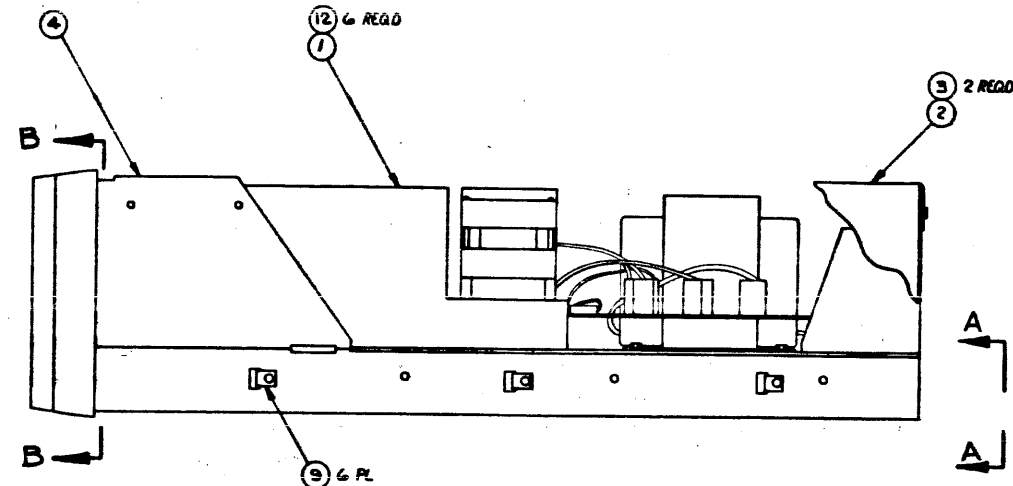
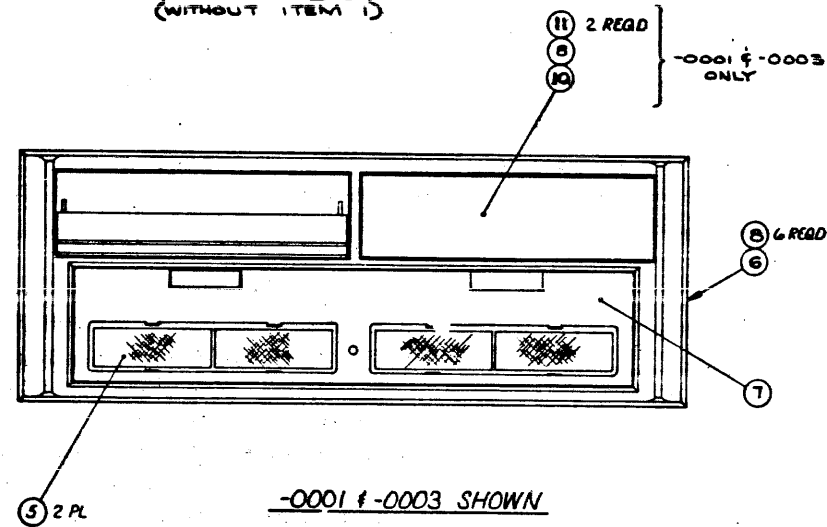
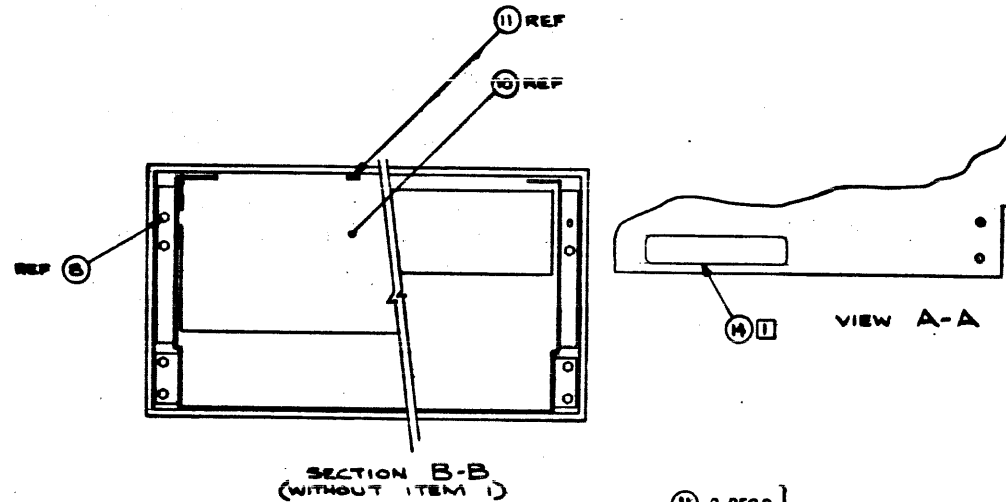
TEXAS INSTRUMENTS INCORPORATED		DATE 03/31/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM2265019-0002		REV E	
PART NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00001.000	EA		2265038-0002	CHASSIS SUB-ASSY,FLEX DISK,DUAL 60HZ						
0002	00001.000	EA		2265036-0001	SIDE PANEL,TABLE TOP CHASSIS,7 IN,RIGHT						
0003	00001.000	EA		2265036-0002	SIDE PANEL,TABLE TOP CHASSIS,7 INCH,LEFT						
0004	00001.000	EA		2265031-0001	COVER,TABLE TOP CHASSIS,7 INCH						
0005	00002.000	EA		2265041-0001	AIR FILTER						
0006	00001.000	EA		2265029-0001	CHASSIS,7 INCH						
0007	00001.000	EA		2265032-0001	FRONT PANEL,FLEX DISK DRIVE						
0008	00001.000	EA		2267282-0001	OVERLAY,D/D FRONT PANEL,DUAL DRIVE						
0009	00008.000	EA		0972679-0014	SCREW,6-19 X 5/8 LG SLOTTED HEX						
0010	00008.000	EA		0996740-0022	SENS SCREW,THD FORM,SLTD HXHD,1/2L, 10	-SEE DRAWING					
0013	00006.000	EA		0972684-0018	SCREW 8-32 X 3/8 THD FRM,SLOT HX WSR HD						
0014	00002.000	EA		0972684-0011	SCREW, THREAD FORMING, #6-32						
0015	00005.000	EA		0996219-0001	BUMPER,ADHESIVE	MM - SJ5023					
0017	00001.000	EA		2269933-0003	LABEL,S/N,F01000A T/T INTL CHASSIS						
0018	00002.000	EA		2269937-0001	RETAINER BRACKET,SIDE PANEL						
0019	00001.000	EA		2271669-0001	KIT,DS1 INTERFACE						
DRAFTSMAN	DATE	CDR. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE FLEX DISK ASSY, TABLE TOP, DUAL 60HZ					
APPROV. ENG.	DATE	APPROV. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.		PART NUMBER	LM2265019-0002	REV	E

TEXAS INSTRUMENTS INCORPORATED		DATE 03/31/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM2265019-0003		REV E	
PART NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00001.000	EA		2265038-0003	CHASSIS SUB-ASSY,FLEX DISK,SINGLE 50HZ						
0002	00001.000	EA		2265036-0001	SIDE PANEL,TABLE TOP CHASSIS,7 IN,RIGHT						
0003	00001.000	EA		2265036-0002	SIDE PANEL,TABLE TOP CHASSIS,7 INCH,LEFT						
0004	00001.000	EA		2265031-0001	COVER,TABLE TOP CHASSIS,7 INCH						
0005	00002.000	EA		2265041-0001	AIR FILTER						
0006	00001.000	EA		2265029-0001	CHASSIS,7 INCH						
0007	00001.000	EA		2265032-0001	FRONT PANEL,FLEX DISK DRIVE						
0008	00001.000	EA		2267282-0001	OVERLAY,D/D FRONT PANEL,DUAL DRIVE						
0009	00008.000	EA		0972679-0014	SCREW,6-19 X 5/8 LG SLOTTED HEX						
0010	00008.000	EA		0996740-0022	SENS SCREW,THD FORM,SLTD HXHD,1/2L, 10	-SEE DRAWING					
0011	00001.000	EA		2267283-0001	PANEL,BLANK,FLEX DRIVE FRONT PANEL						
0012	00002.000	EA		2210176-0001	FASTENER,DART	078553-03619-012-67					
0013	00006.000	EA		0972684-0018	SCREW 8-32 X 3/8 THD FRM,SLOT HX WSR HD						
0014	00002.000	EA		0972684-0011	SCREW, THREAD FORMING, #6-32						
0015	00005.000	EA		0996219-0001	BUMPER,ADHESIVE	MM - SJ5023					
0017	00001.000	EA		2269933-0003	LABEL,S/N,F01000A T/T INTL CHASSIS						
0018	00002.000	EA		2269937-0001	RETAINER BRACKET,SIDE PANEL						
0019	00001.000	EA		2271669-0001	KIT,DS1 INTERFACE						
DRAFTSMAN	DATE	CDR. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE FLEX DISK ASSY, TABLE TOP, SINGLE 50HZ					
APPROV. ENG.	DATE	APPROV. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.		PART NUMBER	LM2265019-0003	REV	E

TEXAS INSTRUMENTS INCORPORATED		DATE 03/31/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM2265019-0004		REV E	
PART NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00001.000	EA		2265038-0004	CHASSIS SUB-ASSY,FLEX DISK,DUAL 50 HZ						
0002	00001.000	EA		2265036-0001	SIDE PANEL,TABLE TOP CHASSIS,7 IN,RIGHT						
0003	00001.000	EA		2265036-0002	SIDE PANEL,TABLE TOP CHASSIS,7 INCH,LEFT						
0004	00001.000	EA		2265031-0001	COVER,TABLE TOP CHASSIS,7 INCH						
0005	00002.000	EA		2265041-0001	AIR FILTER						
0006	00001.000	EA		2265029-0001	CHASSIS,7 INCH						
0007	00001.000	EA		2265032-0001	FRONT PANEL,FLEX DISK DRIVE						
0008	00001.000	EA		2267282-0001	OVERLAY,D/D FRONT PANEL,DUAL DRIVE						
0009	00008.000	EA		0972679-0014	SCREW,6-19 X 5/8 LG SLOTTED HEX						
0010	00008.000	EA		0996740-0022	SENS SCREW,THD FORM,SLTD HXHD,1/2L, 10	-SEE DRAWING					
0013	00006.000	EA		0972684-0018	SCREW 8-32 X 3/8 THD FRM,SLOT HX WSR HD						
0014	00002.000	EA		0972684-0011	SCREW, THREAD FORMING, #6-32						
0015	00005.000	EA		0996219-0001	BUMPER,ADHESIVE	MM - SJ5023					
0017	00001.000	EA		2269933-0003	LABEL,S/N,F01000A T/T INTL CHASSIS						
0018	00002.000	EA		2269937-0001	RETAINER BRACKET,SIDE PANEL						
0019	00001.000	EA		2271669-0001	KIT,DS1 INTERFACE						
DRAFTSMAN	DATE	CDR. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE FLEX DISK ASSY, TABLE TOP, DUAL 50HZ					
APPROV. ENG.	DATE	APPROV. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.		PART NUMBER	LM2265019-0004	REV	E

NOTES:  
 [ ] INSTALL ITEM 14 APPROXIMATELY AS SHOWN

REVISIONS				
ZONE	LTN	DESCRIPTION	DATE	APPROVED
A		CN454573(D) 7/80 (1) L.M. ADDED ITEM 14 (2) CHANGED NOTE 1 FROM INSTALL ITEM 13 (3) ADDED ITEM 14 TO VIEW A-A PICTORIAL	9-9-79	Slaw
B		CN462380(C) 2/78 (1) L.M. ALL DASH NO. ITEM B WAS 972679-0015	1-9-80	J.P.B.E.Z.
C		CN462599 (C) 7/80 (1) ON ALL L.M.'S, P/D & NOTE [ ] DELETED ITEM 13		



2265020-0004	FLEX DISK ASSY, RACKMOUNT, DUAL 50 HZ
-0003	SINGLE 50 HZ
-0002	DUAL 60 HZ
2265020-0001	FLEX DISK ASSY, RACKMOUNT, SINGLE 60 HZ
PART NUMBER	DESCRIPTION

QTY	ITEM NO	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
1	7508	2269938	TEXAS INSTRUMENTS FLEXIBLE DISK ASSY, RACKMOUNT
			D 96214 2265020

UNLESS OTHERWISE SPECIFIED:  
 • DIMENSIONS ARE IN INCHES  
 • TOLERANCES ANGLES 1/16"  
 • 3 PLACE DECIMALS ± 0.010  
 • 2 PLACE DECIMALS ± 0.01  
 • INTERPRET DRAWING PER MIL-D-1000  
 • REMOVE ALL BURRS AND SHARP EDGES  
 • CONCENTRICITY MACHINED GAUGETS 0.001 INM  
 • DIMENSIONAL LIMITS APPLY BEFORE FINISHES  
 • PARENTHETICAL INFO FOR REF. ONLY

HOLE TOLERANCE  
 0.125 ± 0.004 THRU 0.008 0.008  
 0.125 ± 0.001 THRU 0.001 0.001  
 0.01 ± 0.001 THRU 0.001 0.001  
 0.01 ± 0.001 THRU 0.001 0.001

DATE: 9/21/79  
 5-8-79  
 5/23/77  
 5/24/79  
 5-23-79  
 5/23/79

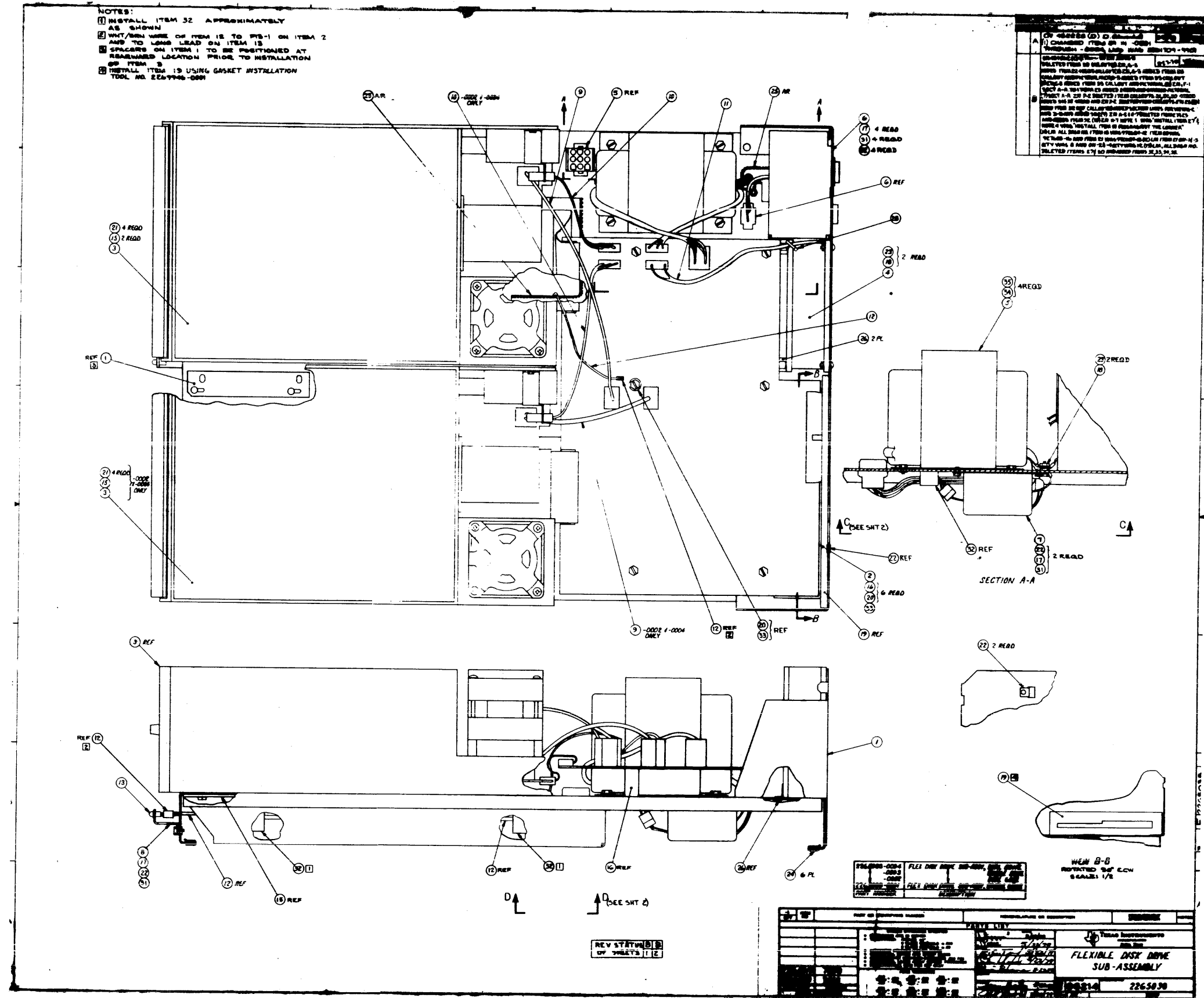
TEXAS INSTRUMENTS INCORPORATED		DATE 03/31/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM2265020-0001		REV C	
PART ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEASURE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00001.000	EA		2265030-0001	CHASSIS SUB-ASSY,FLEX DISK,SINGLE 60HZ						
0002	00001.000	EA		2265030-0001	COVER,RACKMOUNT CHASSIS,7 INCH						
0003	00002.000	EA		0972684-0011	SCREW, THREAD FORMING, #6-32						
0004	00001.000	EA		2265029-0001	CHASSIS,7 INCH						
0005	00002.000	EA		2265041-0001	AIR FILTER						
0006	00001.000	EA		2265032-0001	FRONT PANEL,FLEX DISK DRIVE						
0007	00001.000	EA		2267282-0001	OVERLAY,D/D FRONT PANEL,DUAL DRIVE						
0008	00007.000	EA		0972679-0014	SCREW,6-19 X 5/8 LG SLOTTED HEX						
0009	00006.000	EA		0972802-0016	FASTENER,SPEED NUT,STL,10-32, .017 THK	078553-SEE TI DWG					
0010	00001.000	EA		2267283-0001	PANEL,BLANK,FLEX DRIVE FRONT PANEL						
0011	00002.000	EA		2210176-0001	FASTENER,DART	078553-03619-012-67					
0012	00006.000	EA		0972684-0018	SCREW 8-32 X 3/8 THD FRM,SLOT HX WSR HD						
0014	00001.000	EA		2269933-0004	LABEL,S/M,F01000A R/M INTL CHASSIS						
DRAFTSMAN	DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE FLEX DISK ASSY,RACKMOUNT,SINGLE 60HZ					
APPRO. MFG.	DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	DATE	PART NUMBER	REV	C	
						7508		LM2265020-0001		C	

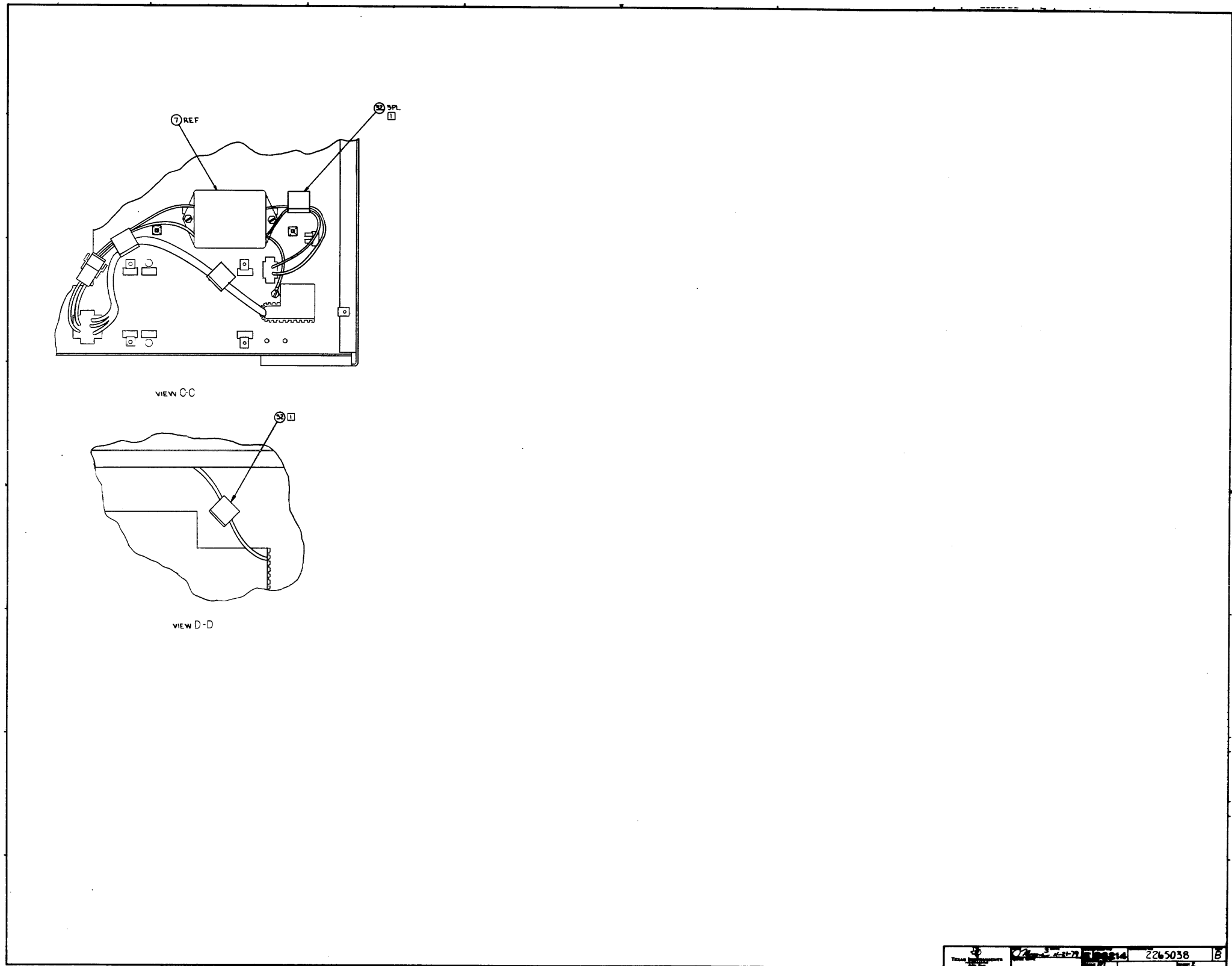
TEXAS INSTRUMENTS INCORPORATED		DATE 03/31/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM2265020-0002		REV C	
PART ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEASURE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00001.000	EA		2265030-0002	CHASSIS SUB-ASSY,FLEX DISK,DUAL 60HZ						
0002	00001.000	EA		2265030-0001	COVER,RACKMOUNT CHASSIS,7 INCH						
0003	00002.000	EA		0972684-0011	SCREW, THREAD FORMING, #6-32						
0004	00001.000	EA		2265029-0001	CHASSIS,7 INCH						
0005	00002.000	EA		2265041-0001	AIR FILTER						
0006	00001.000	EA		2265032-0001	FRONT PANEL,FLEX DISK DRIVE						
0007	00001.000	EA		2267282-0001	OVERLAY,D/D FRONT PANEL,DUAL DRIVE						
0008	00006.000	EA		0972679-0014	SCREW,6-19 X 5/8 LG SLOTTED HEX						
0009	00006.000	EA		0972802-0016	FASTENER,SPEED NUT,STL,10-32, .017 THK	078553-SEE TI DWG					
0012	00006.000	EA		0972684-0018	SCREW 8-32 X 3/8 THD FRM,SLOT HX WSR HD						
0014	00001.000	EA		2269933-0004	LABEL,S/M,F01000A R/M INTL CHASSIS						
DRAFTSMAN	DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE FLEX DISK ASSY,RACKMOUNT,DUAL 60HZ					
APPRO. MFG.	DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	DATE	PART NUMBER	REV	C	
								LM2265020-0002		C	

TEXAS INSTRUMENTS INCORPORATED		DATE 03/31/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM2265020-0003		REV C	
PART ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEASURE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00001.000	EA		2265030-0003	CHASSIS SUB-ASSY,FLEX DISK,SINGLE 50HZ						
0002	00001.000	EA		2265030-0001	COVER,RACKMOUNT CHASSIS,7 INCH						
0003	00002.000	EA		0972684-0011	SCREW, THREAD FORMING, #6-32						
0004	00001.000	EA		2265029-0001	CHASSIS,7 INCH						
0005	00002.000	EA		2265041-0001	AIR FILTER						
0006	00001.000	EA		2265032-0001	FRONT PANEL,FLEX DISK DRIVE						
0007	00001.000	EA		2267282-0001	OVERLAY,D/D FRONT PANEL,DUAL DRIVE						
0008	00007.000	EA		0972679-0014	SCREW,6-19 X 5/8 LG SLOTTED HEX						
0009	00006.000	EA		0972802-0016	FASTENER,SPEED NUT,STL,10-32, .017 THK	078553-SEE TI DWG					
0010	00001.000	EA		2267283-0001	PANEL,BLANK,FLEX DRIVE FRONT PANEL						
0011	00002.000	EA		2210176-0001	FASTENER,DART	078553-03619-012-67					
0012	00006.000	EA		0972684-0018	SCREW 8-32 X 3/8 THD FRM,SLOT HX WSR HD						
0014	00001.000	EA		2269933-0004	LABEL,S/M,F01000A R/M INTL CHASSIS						
DRAFTSMAN	DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE FLEX DISK ASSY,RACKMOUNT,SINGLE 50 HZ					
APPRO. MFG.	DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	DATE	PART NUMBER	REV	C	
								LM2265020-0003		C	

TEXAS INSTRUMENTS INCORPORATED		DATE 03/31/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM2265020-0004		REV C	
PART ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF MEASURE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00001.000	EA		2265030-0004	CHASSIS SUB-ASSY,FLEX DISK,DUAL 50 HZ						
0002	00001.000	EA		2265030-0001	COVER,RACKMOUNT CHASSIS,7 INCH						
0003	00002.000	EA		0972684-0011	SCREW, THREAD FORMING, #6-32						
0004	00001.000	EA		2265029-0001	CHASSIS,7 INCH						
0005	00002.000	EA		2265041-0001	AIR FILTER						
0006	00001.000	EA		2265032-0001	FRONT PANEL,FLEX DISK DRIVE						
0007	00001.000	EA		2267282-0001	OVERLAY,D/D FRONT PANEL,DUAL DRIVE						
0008	00006.000	EA		0972679-0014	SCREW,6-19 X 5/8 LG SLOTTED HEX						
0009	00006.000	EA		0972802-0016	FASTENER,SPEED NUT,STL,10-32, .017 THK	078553-SEE TI DWG					
0012	00006.000	EA		0972684-0018	SCREW 8-32 X 3/8 THD FRM,SLOT HX WSR HD						
0014	00001.000	EA		2269933-0004	LABEL,S/M,F01000A R/M INTL CHASSIS						
DRAFTSMAN	DATE	CED. DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE FLEX DISK ASSY,RACKMOUNT,DUAL 50HZ					
APPRO. MFG.	DATE	APPRO. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	DATE	PART NUMBER	REV	C	
								LM2265020-0004		C	

### Floppy Disk Drive Subassembly (Rackmount/Tabletop)





2265038

Floppy Disk Drive Subassembly (Rackmount/Tabletop)

TEXAS INSTRUMENTS INCORPORATED DATE 11/14/79 LIST OF MATERIAL PAGE 1 of 1 PART NUMBER LM 2265038-0001 REV B

PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
JJ01	0001.000	EA		2265025-0001	INNER CHASSIS,FLEX DISK	
JJ02	0001.000	EA		2261695-0001	INTERNATIONAL FLOPPY POWER SUPPLY	
JJ03	0001.000	EA		2261686-0006	FLEXIBLE DD/DS DISK DRIVE,103-127V 60HZ	
JJ04	0001.000	EA		0972479-0001	FAN,AC 115V 50/60HZ 7W .06LINE/A 1650RPM KTN -027117/MOD WR2	
JJ05	0001.000	EA		2267250-0001	TRANSFORMER,FLEXIBLE DISK DRIVE	
JJ06	0001.000	EA		2265040-0001	AC POWER MODULE ASSY	
JJ07	0001.000	EA		2267252-0001	LINE FILTER ASSY	
JJ08	0001.000	EA		2265042-0001	BRACKET,MOUNTING,POWER LIGHT	
JJ09	0001.000	EA		2266009-0001	CABLE ASSEMBLY,DC,FLEXIBLE DISK	
JJ10	0001.000	EA		2265004-0001	CABLE ASSY,AC,FLEX DISK,DUAL DENSITY	
JJ11	0001.000	EA		2265012-0001	CABLE ASSEMBLY,FAN	
JJ12	0001.000	EA		2265011-0001	CABLE ASSEMBLY,POWER INDICATOR	
JJ13	0001.000	EA		2210461-0001	DIODE,INDICATOR,LED,SNAP-IN, RED	072619-559-0101-001
JJ14	REF	EA		2267251-9901	DIAGRAM,INTERCONNECTION,FLEX DISK DRIVE	
JJ15	0002.000	EA		2265043-0001	SPACER,FLEXIBLE DISK	
JJ16	0006.000	EA		2210258-0005	FASTENER,NYLON,TOGGLE	078553-60048AA-500
JJ17	0007.000	EA		0972684-0011	SCREW,THREAD FORMING, #6-32	
JJ18	0003.000	EA		0972684-0013	SCREW,THD FRMG,HEX-WSHR HD,6-32X.625LG	
JJ19	0001.000	EA		2267286-0001	GASKET,REAR,INNER CHASSIS	
JJ20	0006.000	EA		0972683-0017	SCREW,THREAD FORM., SLOTTED, 1-1/4 L	SEE TI- DRAWING

CHASSIS SUB-ASSY,FLEX DISK,SINGLE 60HZ  
 DRAFTSMAN DATE 11-27-79  
 APPD MFG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO 7508 PART NUMBER LM 2265038-0001 REV B

TEXAS INSTRUMENTS INCORPORATED DATE 11/14/79 LIST OF MATERIAL PAGE 2 of 1 PART NUMBER LM 2265038-0001 REV B

PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
JJ21	0001.000	EA		0972684-0019	SCREW, SLOT HEX,WASHER HEAD-TAPTITE .500	
JJ22	0009.000	EA		0972802-0004	FASTENER, SPEED NUT, STL 6-32	078553-C15180-632-67
JJ23	0004.000	EA		2210006-0002	ASSY, HEX NUT, LOCKWASHERS	092550-SEE DRAWING
JJ24	0006.000	EA		0972802-0008	NUT,U-TYPE, 8-32 X .062	
JJ25	0000.600	EA		0418082-0001	GROMMET, PLASTIC, EDGING	
JJ26	0002.000	EA		2210480-0001	FASTENER, SPRING STEEL	078553-SEE TI DRAWING
JJ28	0001.000	EA		0418212-0040	STRAP,TIEDOWN,ADJUSTABLE,PLASTIC	QPL - MS3367-4-9
JJ29	REF	EA		2269934-9901	TEST PROC,CHASSIS,INTL FLEXIBLE DISK	
JJ31	0007.000	EA		0411100-0071	LOCKWASHER #6 INTERNAL TOOTH CRES	QPL - MS35333-71
JJ32	0006.000	EA		0972741-0002	CLAMP,CBL,PLASTIC,SELF-ADHESIVE,	
JJ33	0001.000	EA		0418730-0107	WASHER-PLASTIC AND SYNTHETIC RUBBER	
JJ34	0004.000	EA		0972802-0016	FASTENER,SPEED NUT,STL,10-32, .017 THK	078553-SEE TI DWG
JJ35	0004.000	EA		0996739-0035	SEMS MACHINE SCREW,10-32X1/2 SLOT HEXHD	

CHASSIS SUB-ASSY,FLEX DISK,SINGLE 60HZ  
 DRAFTSMAN DATE  
 APPD MFG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER LM 2265038-0001 REV B

TEXAS INSTRUMENTS INCORPORATED DATE 11/14/79 LIST OF MATERIAL PAGE 1 of 1 PART NUMBER LM 2265038-0002 REV B

PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
JJ01	0001.000	EA		2265025-0001	INNER CHASSIS,FLEX DISK	
JJ02	0001.000	EA		2261695-0001	INTERNATIONAL FLOPPY POWER SUPPLY	
JJ03	0001.000	EA		2261686-0006	FLEXIBLE DD/DS DISK DRIVE,103-127V 60HZ	
JJ04	0001.000	EA		0972479-0001	FAN,AC 115V 50/60HZ 7W .06LINE/A 1650RPM KTN -027117/MOD WR2	
JJ05	0001.000	EA		2267250-0001	TRANSFORMER,FLEXIBLE DISK DRIVE	
JJ06	0001.000	EA		2265040-0001	AC POWER MODULE ASSY	
JJ07	0001.000	EA		2267252-0001	LINE FILTER ASSY	
JJ08	0001.000	EA		2265042-0001	BRACKET,MOUNTING,POWER LIGHT	
JJ09	0001.000	EA		2266009-0001	CABLE ASSEMBLY,DC,FLEXIBLE DISK	
JJ10	0001.000	EA		2265004-0001	CABLE ASSY,AC,FLEX DISK,DUAL DENSITY	
JJ11	0001.000	EA		2265012-0001	CABLE ASSEMBLY,FAN	
JJ12	0001.000	EA		2265011-0001	CABLE ASSEMBLY,POWER INDICATOR	
JJ13	0001.000	EA		2210461-0001	DIODE,INDICATOR,LED,SNAP-IN, RED	072619-559-0101-001
JJ14	REF	EA		2267251-9901	DIAGRAM,INTERCONNECTION,FLEX DISK DRIVE	
JJ15	0003.000	EA		2265043-0001	SPACER,FLEXIBLE DISK	
JJ16	0006.000	EA		2210258-0005	FASTENER,NYLON,TOGGLE	078553-60048AA-500
JJ17	0007.000	EA		0972684-0011	SCREW,THREAD FORMING, #6-32	
JJ18	0003.000	EA		0972684-0013	SCREW,THD FRMG,HEX-WSHR HD,6-32X.625LG	
JJ19	0001.000	EA		2267286-0001	GASKET,REAR,INNER CHASSIS	
JJ20	0006.000	EA		0972683-0017	SCREW,THREAD FORM., SLOTTED, 1-1/4 L	SEE TI- DRAWING

CHASSIS SUB-ASSY,FLEX DISK,DUAL 60HZ  
 DRAFTSMAN DATE  
 APPD MFG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER LM 2265038-0002 REV B

TEXAS INSTRUMENTS INCORPORATED DATE 11/14/79 LIST OF MATERIAL PAGE 2 of 1 PART NUMBER LM 2265038-0002 REV B

PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER
JJ21	0001.000	EA		0972684-0019	SCREW, SLJT HEX,WASHER HEAD-TAPTITE .500	
JJ22	0009.000	EA		0972802-0004	FASTENER, SPEED NUT, STL 6-32	078553-C15180-632-67
JJ23	0004.000	EA		2210006-0002	ASSY, HEX NUT, LOCKWASHERS	092550-SEE DRAWING
JJ24	0006.000	EA		0972802-0008	NUT,U-TYPE, 8-32 X .062	
JJ25	0000.600	EA		0418082-0001	GROMMET, PLASTIC, EDGING	
JJ26	0002.000	EA		2210480-0001	FASTENER, SPRING STEEL	078553-SEE TI DRAWING
JJ28	0001.000	EA		0418212-0040	STRAP,TIEDOWN,ADJUSTABLE,PLASTIC	QPL - MS3367-4-9
JJ29	REF	EA		2269934-9901	TEST PROC,CHASSIS,INTL FLEXIBLE DISK	
JJ31	0007.000	EA		0411100-0071	LOCKWASHER #6 INTERNAL TOOTH CRES	QPL - MS35333-71
JJ32	0006.000	EA		0972741-0002	CLAMP,CBL,PLASTIC,SELF-ADHESIVE,	
JJ33	0001.000	EA		0418730-0107	WASHER-PLASTIC AND SYNTHETIC RUBBER	
JJ34	0004.000	EA		0972802-0016	FASTENER,SPEED NUT,STL,10-32, .017 THK	078553-SEE TI DWG
JJ35	0004.000	EA		0996739-0035	SEMS MACHINE SCREW,10-32X1/2 SLOT HEXHD	

CHASSIS SUB-ASSY,FLEX DISK,DUAL 60HZ  
 DRAFTSMAN DATE  
 APPD MFG DATE APPD PROJECT ENGINEER DATE RELEASED DATE PROJECT NO PART NUMBER LM 2265038-0002 REV B

TEXAS INSTRUMENTS INCORPORATED		DATE 11/14/79 LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 2265038-0003		REV B	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
JJ01	000J1.000	EA		2265025-0001	INNER CHASSIS,FLEX DISK				
JJ02	000J1.000	EA		2261695-0001	INTERNATIONAL FLOPPY POWER SUPPLY				
JJ03	000J1.000	EA		2261686-0008	FLEXIBLE DD/DS DISK DRIVE,103-127V 50HZ				
JJ04	000J1.000	EA		0972679-0001	FAN,AC 115V 50/60HZ 7W .06LINE/A 1650RPM FTN -027117/MOD WF2				
JJ05	000J1.000	EA		2267250-0001	TRANSFORMER,FLEXIBLE DISK DRIVE				
JJ06	000J1.000	EA		2265040-0001	AC POWER MODULE ASSY				
JJ07	000J1.000	EA		2267252-0001	LINE FILTER ASSY				
JJ08	000J1.000	EA		2265042-0001	BRACKET,MOUNTING,POWER LIGHT				
JJ09	000J1.000	EA		2265009-0001	CABLE ASSEMBLY,DC,FLEXIBLE DISK				
JJ10	000J1.000	EA		2265004-0001	CABLE ASSY,AC,FLEX DISK,DUAL DENSITY				
JJ11	000J1.000	EA		2265012-0001	CABLE ASSEMBLY,FAN				
JJ12	000J1.000	EA		2265011-0001	CABLE ASSEMBLY,POWER INDICATOR				
JJ13	000J1.000	EA		2210461-0001	DIODE,INDICATOR,LED,SNAP-IN, RED	072619-559-0101-001			
JJ14	REF	EA		2267251-9901	DIAGRAM,INTERCONNECTION,FLEX DISK DRIVE				
JJ15	000J2.000	EA		2265043-0001	SPACER,FLEXIBLE DISK				
JJ16	000J6.000	EA		2210258-0005	FASTENER,NYLON,TOGGLE	078553-C60048AA-500			
JJ17	000J7.000	EA		0972684-0011	SCREW, THREAD FORMING, #6-32				
JJ18	000J3.000	EA		0972684-0013	SCREW,THD FRMG,HEX-WSHR HD,6-32X.625LG				
JJ19	000J1.000	EA		2267286-0001	GASKET,REAR,INNER CHASSIS				
JJ20	000J6.000	EA		0972683-0017	SCREW, THREAD FORMING, SLOTTED, 1-1/4 L	SEE TI- DRAWING			
DRAFTSMAN		DATE		TITLE					
APPD. MFG.		DATE		PROJECT NO.					
				CHASSIS SUB-ASSY,FLEX DISK,SINGLE 50HZ					
				PART NUMBER		LM 2265038-0003			
				REV		B			

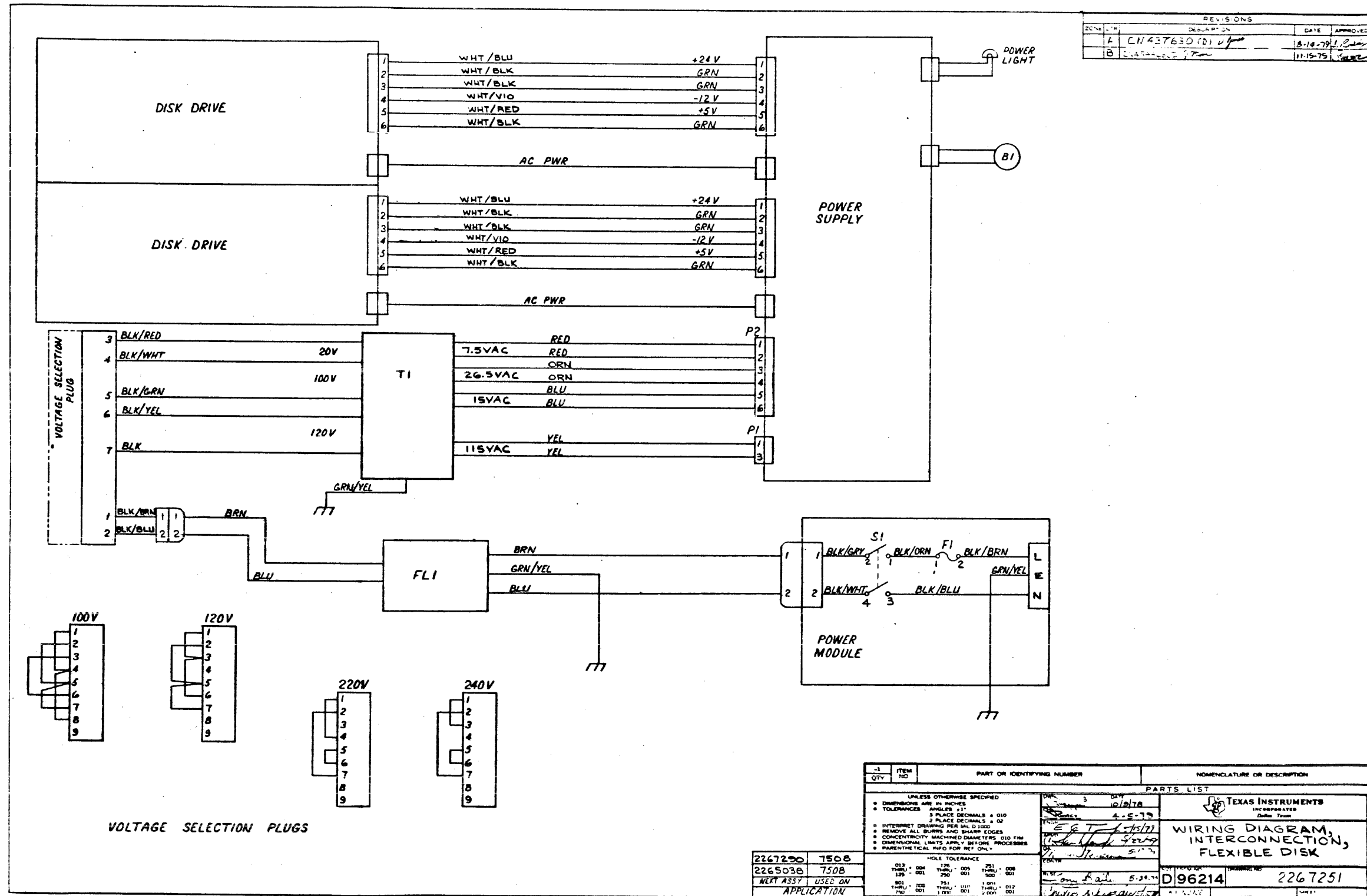
TEXAS INSTRUMENTS INCORPORATED		DATE 11/14/79 LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM 2265038-0003		REV B	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
JJ21	J0004.000	EA		0972684-0019	SCREW, SLOT HEX,WASHER HEAD-TAPTITE .500				
JJ22	000J9.000	EA		0972802-0004	FASTENER, SPEED NUT, STL 6-32	078553-C15180-632-67			
JJ23	000J4.000	EA		2210006-0002	ASSY, HEX NUT, LOCKWASHERS	092550-SEE DRAWING			
JJ24	000J6.000	EA		0972802-0008	NUT,U-TYPE, 8-32 X .062				
JJ25	000J0.600	EA		0418082-0001	GROMMET, PLASTIC, EDGING				
JJ26	000J2.000	EA		2210480-0001	FASTENER, SPRING STEEL	078553-SEE TI DRAWING			
JJ28	000J1.000	EA		0418212-0040	STRAP,TIEDOWN,ADJUSTABLE,PLASTIC	QPL - MS3367-4-9			
JJ29	REF	EA		2269934-9901	TEST PROC,CHASSIS,INTL FLEXIBLE DISK				
JJ31	000J7.000	EA		0411100-0071	LOCKWASHER #6 INTERNAL TOOTH CRES	QPL - MS35333-71			
JJ32	000J6.000	EA		0972741-0002	CLAMP,CBL,PLASTIC,SELF-ADHESIVE,				
JJ33	000J1.000	EA		0418730-0107	WASHER-PLASTIC AND SYNTHETIC RUBBER				
JJ34	J0004.000	EA		0972802-0016	FASTENER,SPEED NUT,STL,10-32, .017 THK	078553-SEE TI DWG			
JJ35	000J4.000	EA		0996739-0035	SEMS MACHINE SCREW,10-32X1/2 SLOT HEXHD				
DRAFTSMAN		DATE		TITLE					
APPD. MFG.		DATE		PROJECT NO.					
				CHASSIS SUB-ASSY,FLEX DISK,SINGLE 50HZ					
				PART NUMBER		LM 2265038-0003			
				REV		B			

TEXAS INSTRUMENTS INCORPORATED		DATE 11/14/79 LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 2265038-0004		REV B	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
JJ01	000J1.000	EA		2265025-0001	INNER CHASSIS,FLEX DISK				
JJ02	000J1.000	EA		2261695-0001	INTERNATIONAL FLOPPY POWER SUPPLY				
JJ03	000J2.000	EA		2261686-0008	FLEXIBLE DD/DS DISK DRIVE,103-127V 50HZ				
JJ04	000J1.000	EA		0972679-0001	FAN,AC 115V 50/60HZ 7W .06LINE/A 1650RPM RTN -027117/MOD WF2				
JJ05	000J1.000	EA		2267250-0001	TRANSFORMER,FLEXIBLE DISK DRIVE				
JJ06	000J1.000	EA		2265040-0001	AC POWER MODULE ASSY				
JJ07	000J1.000	EA		2267252-0001	LINE FILTER ASSY				
JJ08	000J1.000	EA		2265042-0001	BRACKET,MOUNTING,POWER LIGHT				
JJ09	000J2.000	EA		2265009-0001	CABLE ASSEMBLY,DC,FLEXIBLE DISK				
JJ10	000J2.000	EA		2265004-0001	CABLE ASSY,AC,FLEX DISK,DUAL DENSITY				
JJ11	000J1.000	EA		2265012-0001	CABLE ASSEMBLY,FAN				
JJ12	000J1.000	EA		2265011-0001	CABLE ASSEMBLY,POWER INDICATOR				
JJ13	000J1.000	EA		2210461-0001	DIODE,INDICATOR,LED,SNAP-IN, RED	072619-559-0101-001			
JJ14	REF	EA		2267251-9901	DIAGRAM,INTERCONNECTION,FLEX DISK DRIVE				
JJ15	000J3.000	EA		2265043-0001	SPACER,FLEXIBLE DISK				
JJ16	000J6.000	EA		2210258-0005	FASTENER,NYLON,TOGGLE	078553-C60048AA-500			
JJ17	000J7.000	EA		0972684-0011	SCREW, THREAD FORMING, #6-32				
JJ18	000J3.000	EA		0972684-0013	SCREW,THD FRMG,HEX-WSHR HD,6-32X.625LG				
JJ19	000J1.000	EA		2267286-0001	GASKET,REAR,INNER CHASSIS				
JJ20	000J6.000	EA		0972683-0017	SCREW, THREAD FORMING, SLOTTED, 1-1/4 L	SEE TI- DRAWING			
DRAFTSMAN		DATE		TITLE					
APPD. MFG.		DATE		PROJECT NO.					
				CHASSIS SUB-ASSY,FLEX DISK,DUAL 50 HZ					
				PART NUMBER		LM 2265038-0004			
				REV		B			

TEXAS INSTRUMENTS INCORPORATED		DATE 11/14/79 LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM 2265038-0004		REV B	
ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER			
JJ21	J0008.000	EA		0972684-0019	SCREW, SLOT HEX,WASHER HEAD-TAPTITE .500				
JJ22	000J9.000	EA		0972802-0004	FASTENER, SPEED NUT, STL 6-32	078553-C15180-632-67			
JJ23	000J4.000	EA		2210006-0002	ASSY, HEX NUT, LOCKWASHERS	092550-SEE DRAWING			
JJ24	000J6.000	EA		0972802-0008	NUT,U-TYPE, 8-32 X .062				
JJ25	000J0.600	EA		0418082-0001	GROMMET, PLASTIC, EDGING				
JJ26	000J2.000	EA		2210480-0001	FASTENER, SPRING STEEL	078553-SEE TI DRAWING			
JJ28	000J1.000	EA		0418212-0040	STRAP,TIEDOWN,ADJUSTABLE,PLASTIC	QPL - MS3367-4-9			
JJ29	REF	EA		2269934-9901	TEST PROC,CHASSIS,INTL FLEXIBLE DISK				
JJ31	000J7.000	EA		0411100-0071	LOCKWASHER #6 INTERNAL TOOTH CRES	QPL - MS35333-71			
JJ32	000J6.000	EA		0972741-0002	CLAMP,CBL,PLASTIC,SELF-ADHESIVE,				
JJ33	000J1.000	EA		0418730-0107	WASHER-PLASTIC AND SYNTHETIC RUBBER				
JJ34	000J4.000	EA		0972802-0016	FASTENER,SPEED NUT,STL,10-32, .017 THK	078553-SEE TI DWG			
JJ35	000J4.000	EA		0996739-0035	SEMS MACHINE SCREW,10-32X1/2 SLOT HEXHD				
DRAFTSMAN		DATE		TITLE					
APPD. MFG.		DATE		PROJECT NO.					
				CHASSIS SUB-ASSY,FLEX DISK,DUAL 50 HZ					
				PART NUMBER		LM 2265038-0004			
				REV		B			



Floppy Disk Drive Chassis Interconnecting Wiring Diagram





NOTES: (CONTINUED)

4. APPLY SEALANT (ITEM 104) TO EXTERNAL THREADS OF ITEM 101 DURING HARDWARE ASSY

5. STAKE NUTS (ITEM 84) TO PWB AND SOLDER BOTH SIDES

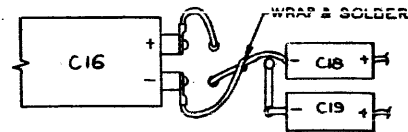
6. REWORK PROCEDURE FOR REV F PWB'S ONLY:

- A. CHANGE R53 (ITEM 81) FROM 3.3K TO 1.0K
- B. UNSOLDER THE NEGATIVE LEAD OF C16 FROM PWB AND MOVE THE NEGATIVE LEAD OF C16 INTO THE C16 NEGATIVE LEAD HOLE. CLINCH AND SOLDER THE NEGATIVE LEAD OF C16. WRAP THE NEGATIVE LEAD OF C16 AROUND THE NEGATIVE LEAD OF C18 AND SOLDER

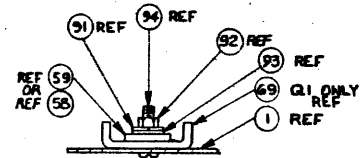
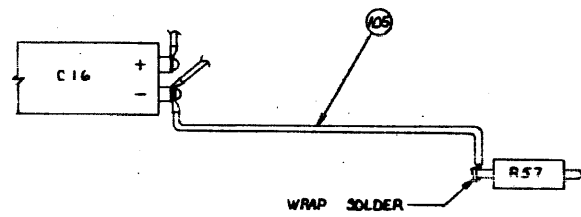
7. FOR PRIMARY DRIVES 1 AND 2, USE E1 TO E2 AND E4 TO E5 FOR SECONDARY DRIVES 3 AND 4 USE E2 TO E3 AND E5 TO E6

8. REMOVE EXISTING SCREW AND DISCARD. USE EXISTING LOCK-WASHER WHEN INSTALLING THIS ITEM. 2 PLACES

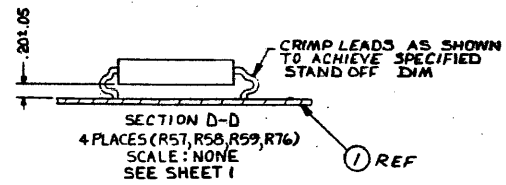
9. REMOVE THIS TIE WRAP BEFORE INSTALLING POWER SUPPLY IN FLOPPY CHASSIS



C. ADD A JUMPER (ITEM 105) BETWEEN THE NEGATIVE TERMINAL OF C16 AND THE NEAR END OF R57 AS SHOWN BELOW:



SECTION C-C  
2 PLACES (Q1 & Q2)  
SCALE: NONE  
SEE SHEET 1



SECTION D-D  
4 PLACES (R57, R58, R59, R76)  
SCALE: NONE  
SEE SHEET 1

 TEXAS INSTRUMENTS	DATE: 7/1/80	SIZE: D	PART NO: 96214	ORIGINATOR: 2261695	REV: A
	ISSUE DATE:	SCALE: N/A	SHEET: 2		



TEXAS INSTRUMENTS INCORPORATED

DATE 02/21/80 LIST OF MATERIAL PAGE 1 of 4 PART NUMBER LM 2261695-0001 REV C

QTY	REF	UNIT	DESCRIPTION	VENDOR PART NUMBER
0002	REF	EA	2265018-9901 LOGIC DIAG-INTL FLOPPY POWER SUPPLY	
0003	REF	EA	2265014-9901 TEST PROC-INTL FLOPPY POWER SUPPLY	
0004	REF	EA	2265001-9901 SPEC-CHASSIS,INTL FLOPPY DISK	
0014	00002.000	EA	0418730-0103 WASHER 6 6 FLAT TEFLON	SEE TI- DRAWING
0016	00004.000	EA	0418730-0103 WASHER, MD. 4 X .125, PLASTIC	WPL - NAS1515H04L
0019	00001.000	EA	0539795-0004 RESISTOR,VARIABLE 500 OHM CERMET FILM	80U - 3069P-1-501
0019A				
0029	00001.000	EA	0972946-0065 RES FLX 1.0K OHM 5% .25 W CARBON FILM	ROH - R-25
0029A			R3	
0032	00002.000	EA	0972946-0089 RES FIX 10K OHM 5% .25 W CARBON FILM	ROH - R-25
0032A			R34 R78	
0035	00002.000	EA	0972942-0001 RES FIX 0.10 OHMS 10% 5W WM	IRC - AS-5
0035A			R57 R59	
0036	00001.000	EA	0072833-0136 RES,WM,FXD,2 MATT, 1.5K OHMS, 5%	044655-SEE DWG
0036A			R58	
0037	00001.000	EA	0972927-0017 CAP FIX MICA 500V 39.0 PF 5%	QPL -CNO5E390J0D
0037A			C7	
0038	00001.000	EA	0972927-0037 CAP FIX MICA 500V 210 PF 5%	QPL -CNO5E271J0D
0038A			C3	
0040	00001.000	EA	0972757-0013 CAP, FIXED, AXIAL LEAD, 1000 PF, 10%, 50V	

INTERNATIONAL FLOPPY POWER SUPPLY

DATE 02-22-80

7508

LM 2261695-0001 REV C

TEXAS INSTRUMENTS INCORPORATED

DATE 02/21/80 LIST OF MATERIAL PAGE 2 of 4 PART NUMBER LM 2261695-0001 REV C

QTY	REF	UNIT	DESCRIPTION	VENDOR PART NUMBER
0040A				
0042	00001.000	EA	0507315-0048 CAPACITOR, 75UF 40V +75,-10% ELCTLT, ALUM	056289-390756G040EE5
0042A			C18	
0043	00001.000	EA	0507315-0049 CAPACITOR, 250UF 10V +75,-10% ELCTLT, ALUM	056289-390257G010EE5
0043A			C19	
0044	00001.000	EA	0507315-0050 CAPACITOR, 500UF 30V +75,-10% ELCTLT, ALUM	056289-390507G030FL5
0044A			C17	
0045	00001.000	EA	0972930-0035 CAPACITOR 4800UF 50V +75/-10%ALUMINUM	056289-360X482G050A02
0045A			C16	
0046	00001.000	EA	0972930-0015 CAPACITOR, 28000UF, 25V, 10% FX, ALUM ELCTLT	056289-340X2036025AF2
0046A			C15	
0047	00004.000	EA	0232163-0000 TIP JACK, PCB MOUNTING, RED	SEE TI- DRAWING
0047A			TR1 TP2 TP3 TP4	
0048	00002.000	EA	0972805-0001 RECTIFIER, BRIDGE, 10A, 400V	
0048A			CR9 CR10	
0049	00001.000	EA	0972806-0001 RECTIFIER, BRIDGE, 1A, 400V	
0049A			CR11	
0054	00001.000	EA	0972803-0001 TRANSISTOR TIP640 DARLINGTON, POWER MPN	TI - TIP640
0054A			Q10	
0055	00001.000	EA	0972786-0001 TRANSISTOR, TIP645 BNP SILICON BARL	

INTERNATIONAL FLOPPY POWER SUPPLY

LM 2261695-0001 REV C

TEXAS INSTRUMENTS INCORPORATED

DATE 02/21/80 LIST OF MATERIAL PAGE 3 of 4 PART NUMBER LM 2261695-0001 REV C

QTY	REF	UNIT	DESCRIPTION	VENDOR PART NUMBER
0055A			Q9	
0056	00002.000	EA	0000523-0004 TRANSISTOR A5T2907 BNP SILICON	TI- -A5T2907
0056A			Q4 Q5	
0057	00003.000	EA	0972057-0001 TRANSISTOR-A5T2222 MPN SILICON	TI- -A5T2222
0057A			Q6 Q7 Q8	
0058	00001.000	EA	0996461-0082 IC, VOLTAGE REGLTR 3 TERMINAL -12 VOLTS	007263-0A79H12AUC
0058A			Q1	
0059	00001.000	EA	0972546-0002 TRIAC, SILICON-12A TIC126A	
0059A			Q2	
0060	00001.000	EA	0972948-0002 TRANSISTOR, 2N2222A MPN GEN PUMP SM TO-18	TI - 2N2222A
0060A			Q3	
0061	00001.000	EA	0539879-0001 TRANSISTOR 2N3725A	TI -2N3725A
0061A			Q11	
0064	00001.000	EA	2210154-0015 HEADER, POLARIZED AND LATCHING, 50 PINS	000779-86476-7
0064A			P1	
0065	00001.000	EA	0972620-0001 COMM, PLUG, BC 8D-15 POSITION	AMP -206913-2
0065A			P2	
0066	00001.000	EA	0972708-0001 CONNECTOR, BS-232, PWB NIC.	
0066A			P3	
0067	00001.000	EA	0972833-0058 RESISTOR, 22 OHM, 2W 5% WM FIXED	044655-SERIES 220R 4%

INTERNATIONAL FLOPPY POWER SUPPLY

LM 2261695-0001 REV C

TEXAS INSTRUMENTS INCORPORATED

DATE 02/21/80 LIST OF MATERIAL PAGE 4 of 4 PART NUMBER LM 2261695-0001 REV C

QTY	REF	UNIT	DESCRIPTION	VENDOR PART NUMBER
0067A			R26	
0068	00002.000	EA	0949371-0001 HEATSINK, TRANSISTOR	
0069	00001.000	EA	0996285-0004 HEATSINK, TRANSISTOR -750 X -750	013103-60738
0070	00004.000	EA	0972423-0005 CONNECTOR PWB MOUNTED 3 CONTACTS NATURAL	017105-350429-1
0070A			P7 P8 P9 P10	
0071	00002.000	EA	0972423-0002 CONN, UNIM PWB MTD, 6 CIRCUIT	
0071A			P11 P12	
0072	00001.000	EA	0537399-0012 FUSE 5AMP .014 OHM	LIT -226005
0072A			F1	
0073	00006.000	EA	0418212-0010 STRAP, TIEDOWN, ADJUSTABLE, PLASTIC	QPL - MS3567-1+9
0079	00004.000	EA	0996394-0001 MINIATURE SPRING SOCKET	000779-050865
0079A			E8 E9 E10 E11	
0083	00001.000	EA	0972175-0004 CONNECTOR, NYLON .062 PWB 6 CIRCUIT	SEE - TI DRAWING
0083A			P6	
0086	00001.000	EA	0996311-0015 CAPACITOR, 1.0000 UF 100 VDC 10%	
0086A			C21	
0085	00001.000	EA	0800118-0013 RESISTOR, FIXED-ARRAY, 4.7K	
0085A			U17	
0086	00004.000	EA	0803153-0030 NUT, .138-32 X .188 .184DIA SLY-SHLDR BR5	071279-3928-10
0087	00002.000	EA	2261284-0001 CABLE ASSY, PENDENT, INTERNATIONAL FLOPPY	

INTERNATIONAL FLOPPY POWER SUPPLY

LM 2261695-0001 REV C

TEXAS INSTRUMENTS INCORPORATED		DATE 02/21/80		LIST OF MATERIAL		PAGE 5 of		PART NUMBER LM 2261695-0001		REV C	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0088	00001.000	EA		0232583-0008	TQ-5 MOUNTING PAD, 4-LEADS, NYLON	SEE TI- DRAWING					
0089	00006.000	EA		0411100-0071	LOCKWASHER #6 INTERNAL TOOTH CRES	QPL - MS35333-71					
0090	00004.000	EA		0972988-0030	SCREW 4-32 X .500 PAN HEAD CRES						
0091	00006.000	EA		0411104-0135	WASHER, LOCK-SPRING, MELICAL, #4	QPL - MS35338-135					
0092	00006.000	EA		0411115-0044	NUT, 4-40 HEXAGON CRES STEEL	MS - J5649-244					
0093	00002.000	EA		0416622-0011	WASHER #4 FLAT	QPL - AN960C4L					
0094	00006.000	EA		0972988-0015	SCREW 4-40 X .375 PAN HEAD CRES						
0095	00004.000	EA		2269926-0001	JUMPER, RMB/CAPACITOR						
0096	00002.000	EA		0411115-0064	NUT, PLAIN 4-32 UNC-28 HEX CRES	QPL - MS35649-264					
0097	00002.000	EA		0972988-0032	SCREW 4-32 X .750 PAN HEAD CRES						
0098	00002.000	EA		0972487-0001	JUMPER BLUG, CONNECTOR BLACK						
0099	00002.000	EA		0802373-0007	INSULATOR, PLATE	018565-60-11-4511-164					
0100	00001.000	EA		2261695-5001	AUTO-INSERTED PARTS LIST FOR 2261695-1						
0101	00004.000	EA		0808129-0001	CONNECTOR, EJECT SCREW-LOCK ASSY FEMALE	081349-M24308/26-1					
0102	00002.000	EA		2269024-0001	HEATSINK, POWER SUPPLY, FLEXIBLE DISK						
0103	00001.000	EA		0415884-0001	GREASE, SILICONE, HEAT COND. (8 OZ TUBE)	WAK - 120					
0104	AR	QT		0415884-0005	SEALING COMPOUND, ANAEROBIC-BLUE GRADE C						
0105	00001.000	EA		2269926-0002	JUMPER, GROUND/CAPACITOR						
0106	00001.000	EA		0972946-0097	RES FIX 22 K OHM 5 % .25 W CARBON FILM	ROH - R-25					
D108A R39											
DRAFTSMAN		DATE	CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	INTERNATIONAL FLOPPY POWER SUPPLY			
APPD. MFG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER		REV	
								LM 2261695-0001		C	

TEXAS INSTRUMENTS INCORPORATED		DATE 02/21/80		LIST OF MATERIAL		PAGE 6 of		PART NUMBER LM 2261695-0001		REV C	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0107	00000.050	FT		0535978-0072	WIRE #30 AWG GRAY ELECT, SOLID KYNAR	BR -09755					
0108	00001.000	EA		0972978-0085	RES FIX COMP 1.0 W 220 OHMS 5 %	QPL -MC326221JS					
0108A					R77						
0109	00000.100	FT		0411400-0020	WIRE #20 ELECTRO-TIN-PLATED, COPPER						
0110	00000.150	FT		0410499-0007	INSULATION SLEEVING, TEFLON #20 NATURAL	QPL -81349					
DRAFTSMAN											
DATE		CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	INTERNATIONAL FLOPPY POWER SUPPLY				
APPD. MFG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER		REV	
								LM 2261695-0001		C	

TEXAS INSTRUMENTS INCORPORATED		DATE 02/21/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM 2261695-5001		REV C	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0001	00001.000	EA		2261695-0001	PHB, POWER SUPPLY, INTERNATIONAL FLOPPY						
0005	00001.000	EA		0972649-0001	NETWORK, SN74LS163H						
0005A					U8						
0006	00001.000	EA		0972120-0001	NETWORK, SN74259 8-BIT ADDRESSABLE LATCH	001295-74259					
0006A					U9						
0007	00001.000	EA		0972793-0001	IC, MONOSTABLE MV SN74LS123N						
0007A					U3						
0008	00001.000	EA		0801383-0001	NETWORK SN74LS151N						
0008A					U2						
0009	00001.000	EA		0972639-0001	NETWORK, SN75113N						
0009A					U1						
0010	00002.000	EA		0972189-0002	NETWORK SN75115N	-TI-SN75115N					
0010A					U4 U5						
0011	00002.000	EA		0972946-0027	RES FIX 27.0 OHM 5 % .25 W CARBON FILM	ROH - R-25					
0011A					R50 R63						
0012	00002.000	EA		0972947-0034	RES FIX 51 OHM 5 % .5 W CARBON FILM	ROH - R-50					
0012A					R8 R9 R10 R11 R24 R25 R26						
0012B					R27 R28 R29 R30 R31						
0013	00004.000	EA		0972946-0051	RES FIX 270 OHM 5 % .25 W CARBON FILM	ROH - R-25					
0013A					R4 R5 R6 R7						
DRAFTSMAN											
DATE		CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	AUTO-INSERTED PARTS LIST FOR 2261695-1				
APPD. MFG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER		REV	
								LM 2261695-5001		C	

TEXAS INSTRUMENTS INCORPORATED		DATE 02/21/80		LIST OF MATERIAL		PAGE 2 of		PART NUMBER LM 2261695-5001		REV C	
PRINT ITEM NUMBER	QUANTITY PER ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER					
0015	00001.000	EA		0972946-0053	RES FIX 330 OHM 5 % .25 W CARBON FILM	ROH - R-25					
0015A					R67						
0017	00001.000	EA		0972946-0096	RES FIX 20 K OHM 5 % .25 W CARBON FILM	ROH - R-25					
0017A					R2						
0018	00001.000	EA		0972946-0045	RES FIX 150 OHM 5 % .25 W CARBON FILM	ROH - R-25					
0018A					R75						
0020	00001.000	EA		0539370-0356	RES FIX FILM 499 OHM 1% .25 WATT	COR - NA25					
0020A					R36						
0021	00001.000	EA		0539370-0385	RES FIX FILM 1.00K OHM 1% .25 WATT	COR - NA55					
0021A					R56						
0022	00001.000	EA		0539370-0433	RES FIX FILM 3.16K OHM 1% .25 WATT	COR - NA55					
0022A					R35						
0023	00001.000	EA		0539370-0441	RES FIX FILM 3.83K OHM 1% .25 WATT	COR - NA55					
0023A					R55						
0024	00001.000	EA		0972946-0125	RES FIX 330K OHM 5 % .25 W CARBON FILM	ROH - R-25					
0024A					R37						
0025	00001.000	EA		0539370-0417	RES FIX FILM 2.15K OHM 1% .25 WATT	COR - NA55					
0025A					R72						
0026	00003.000	EA		0972946-0061	RES FIX 100 OHM 5 % .25 W CARBON FILM	ROH - R-25					
0026A					R48 R49 R45						
DRAFTSMAN											
DATE		CDR DRAFTSMAN	DATE	DESIGN ENGINEER	DATE	TITLE	AUTO-INSERTED PARTS LIST FOR 2261695-1				
APPD. MFG.		DATE	APPD. PROJECT ENGINEER	DATE	RELEASED	DATE	PROJECT NO.	PART NUMBER		REV	
								LM 2261695-5001		C	

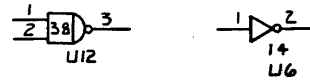
TEXAS INSTRUMENTS INCORPORATED		DATE 02/21/80		LIST OF MATERIAL		PAGE 3 of		PART NUMBER LM2261695-5001		REV C		
PRINT ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0027	00001.000	EA		0972946-0059	RES FIX 500 OHM 5 % .25 W CARBON FILM	RDH - R-25						
0027A					R71							
0028	00001.000	EA		0972946-0062	RES FIX 750 OHM 5 % .25 W CARBON FILM	RDH - R-25						
0028A					R73							
0029	00010.000	EA		0972946-0065	RES FIX 1.0K OHM 5% .25 W CARBON FILM	RDH - R-25						
0029A					R33 R41 R43 R44 R45 R46							
0029B					R51 R60 R68 R70							
0030	00001.000	EA		0972946-0077	RES FIX 3.3K OHM 5 % .25 W CARBON FILM	RDH - R-25						
0030A					R66							
0031	00001.000	EA		0972946-0081	RES FIX 4.7K OHM 5 % .25 W CARBON FILM	RDH - R-25						
0031A					R54							
0032	00006.000	EA		0972946-0089	RES FIX 10K OHM 5% .25 W CARBON FILM	RDH - R-25						
0032A					R38 R42 R52 R61 R66 R69							
0033	00001.000	EA		0972946-0105	RES FIX 67 K OHM 5 % .25 W CARBON FILM	RDH - R-25						
0033A					R47							
0034	00001.000	EA		0972946-0113	RES FIX 100K OHM 5 % .25 W CARBON FILM	RDH - R-25						
0034A					R40							
0039	00017.000	EA		0972763-0021	CAP.,FIXED,AXIAL LEAD,.047 UF,.90%,20%							
0039A					C1 C2 C4 C5 C6 C8 C9 E10							
0039B					C11 C12 C18 C19 C24 C28 C29							
DRAFTSMAN DATE CRO DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE												
APPRO. MFG DATE APPR. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO.												
AUTO-INSERTED PARTS LIST FOR 2261695-1												
										PART NUMBER LM2261695-5001		REV C

TEXAS INSTRUMENTS INCORPORATED		DATE 02/21/80		LIST OF MATERIAL		PAGE 4 of		PART NUMBER LM2261695-5001		REV C		
PRINT ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0039C					C89 C30							
0040	00003.000	EA		0972757-0013	CAP.,FIXED,AXIAL LEAD,1000 PF,10%,50V							
0040A					C23 C25 C26							
0041	00002.000	EA		0972924-0017	CAP FIX TANT SOLID 1.0 MFD 10 & 35 VOLT	SPR -1500105X9035A						
0041A					C20 C22							
0050	00002.000	EA		0539468-0007	DIODE,1N4007 LAMP 1000PIV RECTIFIER	TI -1N4007						
0050A					CR1 CR8							
0051	00003.000	EA		0972932-0001	DIODE 1N9148	SEE TI- DRAWING						
0051A					CR2 CR3 CR7							
0052	00001.000	EA		0972934-0014	DIODE,1N759A 12.0 V 58 SIL VOLT REG	QPL - 1N759A						
0052A					CR5							
0053	00001.000	EA		0972934-0007	DIODE,1N752A 5.6 V 58 SIL VOLT REG	QPL - 1N752A						
0053A					CR4							
0062	00001.000	EA		0972395-0001	NETWORK,LM324N QUAD OP AMP	-LM324N						
0062A					U15							
0063	00002.000	EA		0972662-0001	NETWORK,SN72723N							
0063A					U14 U16							
0074	00007.000	EA		0972456-0004	PIN,.025 SQUARE .440LG .320 INSTALLED L	022526-75481-004						
0074A					E3 E4 E5 E6 E7 P13							
0075	00001.000	EA		022222-7407	NETWORK-SN7407N	TI- -SN7407N						
DRAFTSMAN DATE CRO DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE												
APPRO. MFG DATE APPR. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO.												
AUTO-INSERTED PARTS LIST FOR 2261695-1												
										PART NUMBER LM2261695-5001		REV C

TEXAS INSTRUMENTS INCORPORATED		DATE 02/21/80		LIST OF MATERIAL		PAGE 5 of		PART NUMBER LM2261695-5001		REV C		
PRINT ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0075A					U7							
0076	00001.000	EA		022222-7414	NETWORK SN7414N							
0076A					U6							
0077	00003.000	EA		022222-7438	NETWORK SN7438N							
0077A					U11 U12 U13							
0078	00001.000	EA		022222-7406	NETWORK SN7406N							
0078A					U10							
0080	00001.000	EA		0972946-0083	RES FIX 5.6K OHM 5 % .25 W CARBON FILM	RDH - R-25						
0080A					R62							
0081	00001.000	EA		0972947-0065	RES FIX 1.0K OHM 5% .5 W CARBON FILM	RDH - R-50						
0081A					R53							
0082	00001.000	EA		0972934-0008	DIODE,1N753A 6.2 V 58 SIL VOLT REG	QPL - 1N753A						
0082A					CR6							
DRAFTSMAN DATE CRO DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE												
APPRO. MFG DATE APPR. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO.												
AUTO-INSERTED PARTS LIST FOR 2261695-1												
										PART NUMBER LM2261695-5001		REV C

TEXAS INSTRUMENTS INCORPORATED		DATE 02/21/80		LIST OF MATERIAL		PAGE 1 of		PART NUMBER LM2261695-8001		REV C		
PRINT ITEM NUMBER	QUANTITY FOR ASSEMBLY	UNIT OF ISSUE	DWG. SIZE	PART NUMBER	DESCRIPTION	VENDOR PART NUMBER						
0201	00001.000	EA		2261695-0001	INTERNATIONAL FLOPPY POWER SUPPLY							
0202	00001.000	EA		2271670-0001	DS1 INTERFACE							
0203	00001.000	EA		2269982-0001	BRACKET,INTERFACE MOUNTING							
0204	00002.000	EA		2269983-0001	STANDOFF							
0205	00003.000	EA		0972988-0028	SCREW 6-32 X .375 PAN HEAD CRES							
0206	00003.000	EA		0418730-0105	WASHER # 6 FLAT TEFLON	SEE TI- DRAWING						
0207	00003.000	EA		0411027-0806	WASHER,#6 FLAT,CRES,.156 X .375 X .049	QPL - MS15795-806						
0208	00003.000	EA		0411104-0136	WASHER, LOCK-SPRING, METAL, #6	QPL - MS35330-136						
0209	00002.000	EA		0972632-0005	STRAP,TIE DOWN,CABLE-NON-STANDARD	PND - 55T31						
DRAFTSMAN DATE CRO DRAFTSMAN DATE DESIGN ENGINEER DATE TITLE												
APPRO. MFG DATE APPR. PROJECT ENGINEER DATE RELEASED DATE PROJECT NO.												
INTERNATIONAL FLOPPY POWER SUPPLY												
										PART NUMBER LM2261695-8001		REV C

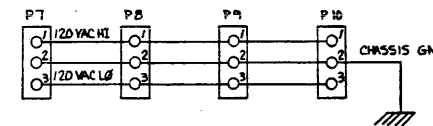
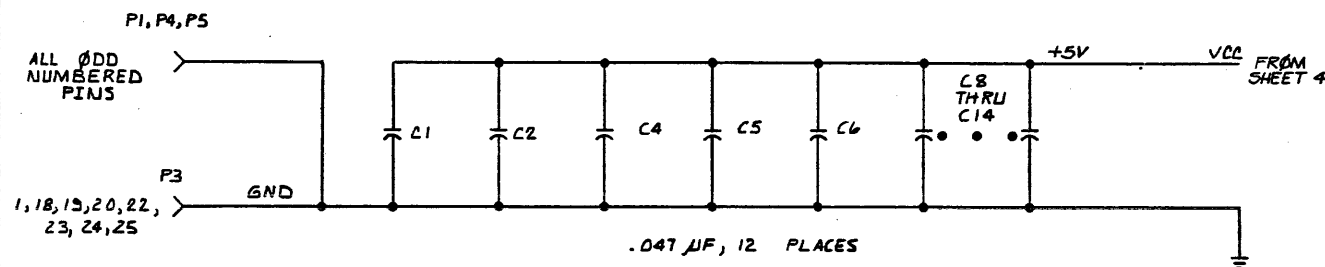
- NOTES: UNLESS OTHERWISE SPECIFIED:
1. ALL DEVICE TYPES PREFIXED WITH SN74.
  2. VCC IS APPLIED TO PIN 14 OF ALL 14-PIN IC'S AND PIN 16 OF ALL 16-PIN IC'S.
  3. GND IS APPLIED TO PIN 7 OF ALL 14-PIN IC'S AND PIN 8 OF ALL 16-PIN IC'S.
  4. DEVICE TYPE, PIN NUMBERS, AND REF DESIGNATION OF IC IS SHOWN AS FOLLOWS:



38 AND 14 = DEVICE TYPE  
 12 AND 3 = PIN NUMBERS  
 U12 AND U6 = REF DESIGNATION

5. GROUND SYMBOLS SHOWN AS FOLLOWS:
6. THREE-PIN AC CONNECTORS CAN BE PLUGGED INTO ANY THREE-PIN PWB CONNECTOR (P7-P10)

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	CN454453 (D) J.B. Kupper	6-20-78	J. Kupper
B	CN453313 (C) M. G. Gorman	3-20-80	J. Kupper



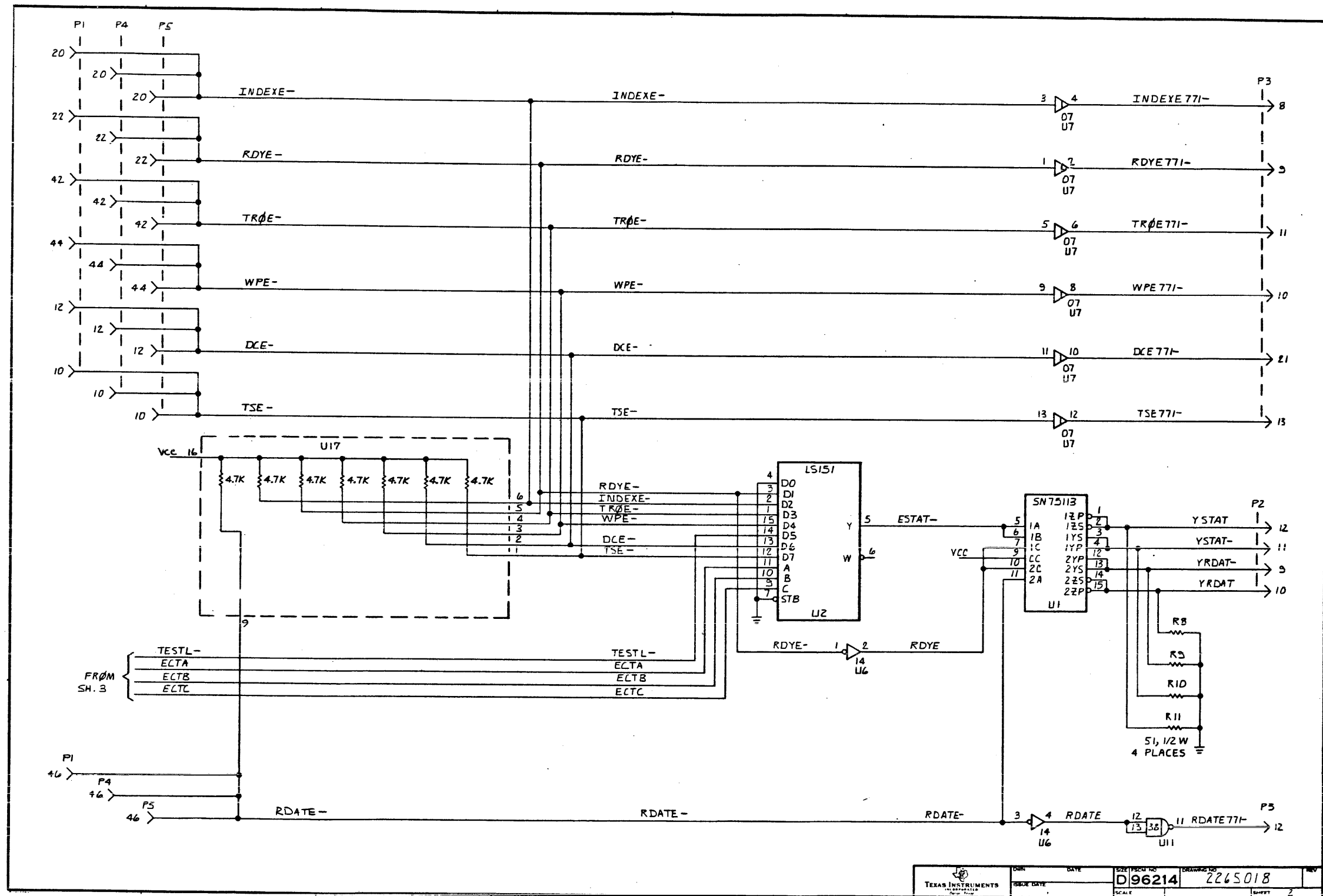
REV STATUS	REV	B	#	B
OF SHEETS	SHEET	1	2	3

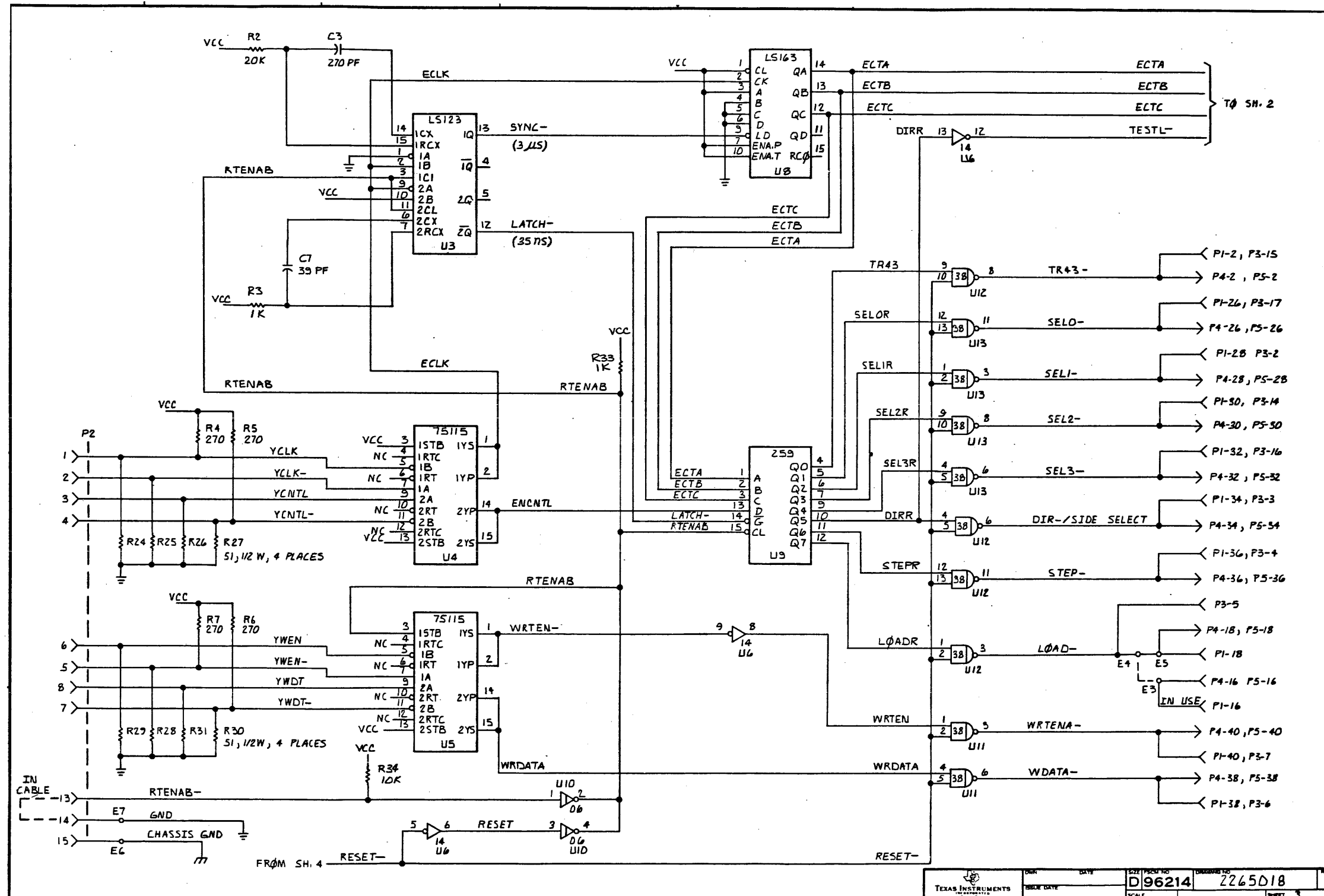
QTY	ITEM NO	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	PROCUREMENT SPECIFICATION	NOTES
PARTS LIST					
UNLESS OTHERWISE SPECIFIED					
• DIMENSIONS ARE IN INCHES					
• TOLERANCES - ANGLES ±1°					
• 3 PLACE DECIMALS ±.010					
• 2 PLACE DECIMALS ±.02					
• INTERPRET DRAWING PER MIL-D-1000					
• REMOVE ALL BURRS AND SHARP EDGES					
• CONCENTRICITY MACHINED DIAMETERS .010 P/M					
• DIMENSIONAL LIMITS APPLY BEFORE PROCESSES					
• PARENTHEetical INFO FOR REF ONLY					
HOLE TOLERANCE					
.013 - .004 THRU .004					
.125 - .001 THRU .001					
.251 - .008 THRU .008					
.500 - .001 THRU .001					
.751 - .010 THRU .010					
1.001 - .012 THRU .012					
1.501 - .001 THRU .001					
2.000 - .001 THRU .001					
22G1695	7508				
NEXT ASSY USED ON					
APPLICATION					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES - ANGLES ±1° 3 PLACE DECIMALS ±.010 2 PLACE DECIMALS ±.02 INTERPRET DRAWING PER MIL-D-1000 REMOVE ALL BURRS AND SHARP EDGES CONCENTRICITY MACHINED DIAMETERS .010 P/M DIMENSIONAL LIMITS APPLY BEFORE PROCESSES PARENTHEetical INFO FOR REF ONLY HOLE TOLERANCE .013 - .004 THRU .004 .125 - .001 THRU .001 .251 - .008 THRU .008 .500 - .001 THRU .001 .751 - .010 THRU .010 1.001 - .012 THRU .012 1.501 - .001 THRU .001 2.000 - .001 THRU .001			DATE: 8/5/79 BY: J. Kupper CHECKED: 4/9/79 DATE: 7-17-78 BY: J. Kupper DATE: 7-18-78 BY: J. Kupper		
TEXAS INSTRUMENTS INCORPORATED Dallas, Texas			LOGIC DIAGRAM, INTERNATIONAL FLOPPY POWER SUPPLY		
SIZE (FSCD NO) D96214		DRAWING NO 22G5018			
SCALE: 1/16"=1"		SHEET 1 OF 4			

SEQ NO	IDENT	F-SPEC	NO	ADDITIONAL	NOTES
	PROCESS			CLASSIFICATION	

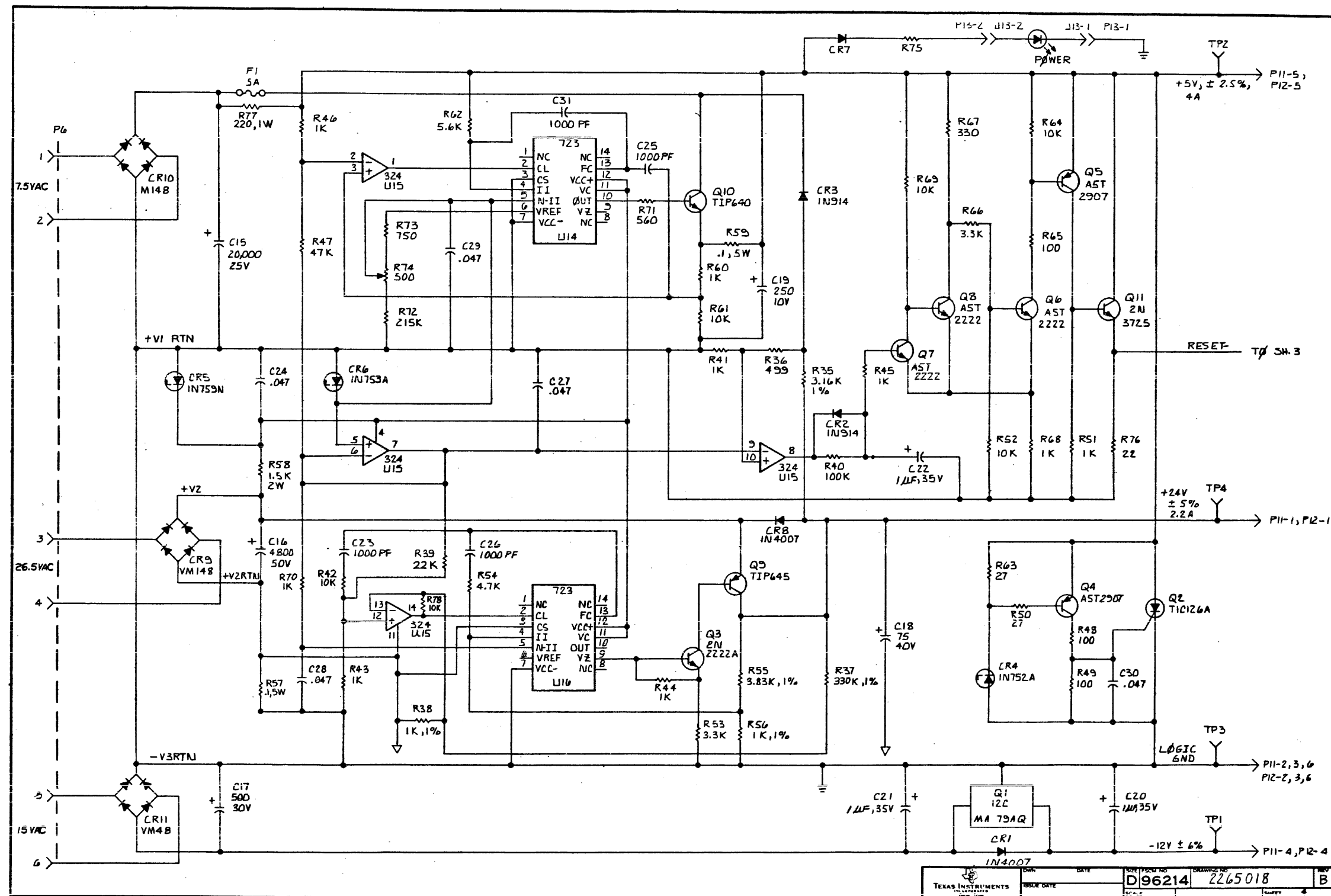
PROCESSES - FOR CORRELATION TO GOVT/IND SPECIFICATIONS, SEE TI DRAWING 729467







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 D96214 2265D18  
 SHEET 3





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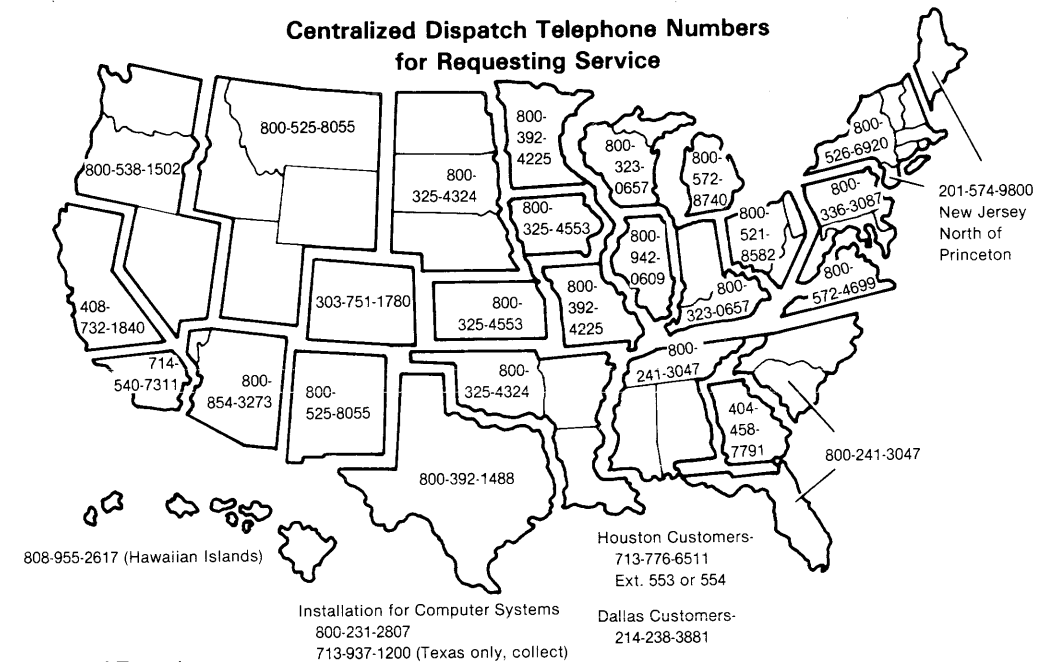
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