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DWG ISS	CD ISS	DWG ISS	CD ISS	DWG ISS	CD ISS
1	1 APPS -	2B	1 APPS 1B	3AC	1 APPS 2AC
DWG ISS	CD ISS	DWG ISS	CD ISS	DWG ISS	CD ISS
4A	1 APPS 3A	5AC	1 APPS 4AC	6A	1 APPS 5A
DWG ISS	CD ISS	DWG ISS	CD ISS	DWG ISS	CD ISS
7M	1 APPS 6M		APPS		APPS
DWG ISS	CD ISS	DATE ISSD		DRN	APP
8B	1 APPS 7B	6-11-93			

SUPPORTING INFORMATION

SYSTEM USED ON	DESIGN CONTROL	CATEGORY	NO.
5ESS	IH	EQUIPMENT DRAWING	JSD003AP-02
		FRAME SD	SD-5D113-01 SD-5D119-01

SHEET INDEX NOTES

1. ONLY THE LATEST ISSUE, OR ISSUES IF CONCURRENT, ARE SHOWN IN THE INDEX.
2. FOR REISSUES, A CHANGED OR NEW SHEET IS ASSIGNED THE SAME ISSUE NUMBER AS SHEET 1.
3. THE ISSUE NUMBER OF SHEET 1 IS RECOGNIZED AS THE ISSUE NUMBER OF THE WHOLE DRAWING.

BT13

5ESS® SWITCHING EQUIPMENT

FACILITIES INTERFACE UNIT
MODEL 2
CIRCUIT

DWG SIZE	ISSUE
C2	8B

AT&T	SD-5D401-01	SHEET A1 32 SHEETS

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DESIGNATION MNEMONICS

MNEMONICS	FS/SYM	DEFINITION
GRD04(026-086)	1/2-16	SIDE 0 GROUND, EQL'S 04-026 THROUGH 04-086
GRD04(116-176)	2/2-16	SIDE 1 GROUND, EQL'S 04-116 THROUGH 04-176
0+CURPR	1/4	SIDE 0, PLUS CURRENT PROGRAMMING RESISTOR
0+12	1/2	SIDE 0, +12 VOLT POWER
0+5V	1/2	SIDE 0, +5 VOLT POWER
0-CURPR	1/4	SIDE 0, MINUS CURRENT PROGRAMMING RESISTOR
0-48RTN	1/1	SIDE 0, -48 VOLT RETURN
0-48V	1/1	SIDE 0, -48 VOLT POWER FEED
0(A,B)BUFER	1/4,15	SIDE 0, GROUP A OR B BUFFER
0(A,B)CERAM0	1/4,15	SIDE 0, GROUP A OR B, CHIP ENABLE RAM, ACTIVE LOW
0(A,B)CKCCI	1/5	SIDE 0, GROUP A OR B, CLOCK CENTRAL PROCESSOR INTERVENTION
0(A,B)CK16M	1/10	SIDE 0, GROUP A OR B, 16 MHZ CLOCK
0(A,B)CK2M1	1/4,15	SIDE 0, GROUP A OR B, CLOCK 2 MHZ
0(A,B)CK32	1/5	SIDE 0, GROUP A OR B, 32 MHZ CLOCK
0(A,B)CK4K1	1/5	SIDE 0, GROUP A OR B,CLOCK 4 KHZ
0(A,B)CK8MC	1/10	SIDE 0, GROUP A OR B, CLOCK 8 MHZ
0(A,B)COND5	1/4,15	SIDE 0, LINK CONDITIONED POWER
0(A,B)DFRSQ	1/5	SIDE 0, GROUP A OR B, DISABLE FRAME SEQUENCE
0(A,B)DSFBIT	1/5	SIDE 0, GROUP A OR B, ADD S AND F BIT
0(A,B)ECTRIN	1/4,15	SIDE 0, GROUP A OR B, ERROR COUNTER INPUT
0(A,B)INFRIN	1/4,15	SIDE 0, GROUP A OR B, INFRAME INPUT
0(A,B)INT	1/1	SIDE 0, GROUP A OR B, INTERRUPT
0(A,B)LOOP	1/5	SIDE 0, GROUP A OR B, LOOP LINK
0(A,B)MUXCR	1/10	SIDE 0, GROUP A OR B, MUX CONTROL REGISTER ENABLE
0(A,B)MUXDI	1/3,16	SIDE 0, GROUP A OR B, MUX DATA IN
0(A,B)MUXDO	1/10	SIDE 0, GROUP A OR B, MUX DATA OUT
0(A,B)MUXER	1/10	SIDE 0, GROUP A OR B, MUX ERROR REGISTER ENABLE
0(A,B)MUXINT	1/3,16	SIDE 0, GROUP A OR B, MUX INTERRUPT
0(A,B)MUXRD	1/10	SIDE 0, GROUP A OR B, MUX READ
0(A,B)MUXSH	1/10	SIDE 0, GROUP A OR B, MUX SHIFT CLOCK
0(A,B)MUXWR	1/10	SIDE 0, GROUP A OR B, MUX WRITE
0(A,B)RPAR	1/4,15	SIDE 0, GROUP A OR B, RECEIVE PARITY ERROR
0(A,B)RPARIN	1/5	SIDE 0, GROUP A OR B, RECEIVE PARITY INPUT
0(A,B)SICODE	1/5	SIDE 0, GROUP A OR B, SEND IDLE CODE
0(A,B)SYN2M0	1/5	SIDE 0, GROUP A OR B, SYNC 2 MHZ LOW
0(A,B)SYN4K	1/10	SIDE 0, GROUP A OR B, SYNC 4 KHZ

MNEMONICS	FS/SYM	DEFINITION
0(A,B)TPAR	1/4,15	SIDE 0, GROUP A OR B, TRANSMIT PARITY ERROR
0(A,B)TPARIN	1/5	SIDE 0, GROUP A OR B, TRANSMIT PARITY INPUT
0(A,B)WA7	1/4,15	SIDE 0, GROUP A OR B, WRITE ADDRESS BIT 7
0(A,B)WRENO	1/4,15	SIDE 0, GROUP A OR B, WRITE ENABLE, ACTIVE LOW
0(A,B)(0-9)DFIST	1/8,8, 11,13	SIDE 0, GROUP A OR B, DFI STATUS 0 THROUGH 9
0(A,B)(0-9)PBIN	1/3,16	SIDE 0, GROUP A OR B, PERIPHERAL INTERFACE DATA BUS 0 THROUGH 9, DATA IN (NEG)
0(A,B)(0-9)PBIP	1/3,16	SIDE 0, GROUP A OR B, PERIPHERAL INTERFACE DATA BUS 0 THROUGH 9, DATA IN (POS)
0(A,B)(0-9)PBON	1/3,16	SIDE 0, GROUP A OR B, PERIPHERAL INTERFACE DATA BUS 0 THROUGH 9, DATA OUT (NEG)
0(A,B)(0-9)PBOP	1/3,16	SIDE 0, GROUP A OR B, PERIPHERAL INTERFACE DATA BUS 0 THROUGH 9, DATA OUT (POS)
0(A,B)(0-9)RESET	1/7,9, 12,14	SIDE 0, GROUP A OR B, PERIPHERAL INTERFACE DATA BUS 0 THROUGH 9, RESET
0(A,B)0RP	1/4,15	SIDE 0, A OR B GROUP, RECEIVE PARITY
0(A,B)0RX	1/4,15	SIDE 0, A OR B GROUP, RECEIVE DATA X
0(A,B)0RY	1/4,15	SIDE 0, A OR B GROUP, RECEIVE DATA Y
0(A,B)0RZ	1/4,15	SIDE 0, A OR B GROUP, RECEIVE DATA Z
0(A,B)0TP	1/3,16	SIDE 0, A OR B GROUP, TRANSMIT PARITY
0(A,B)0TX	1/3,16	SIDE 0, A OR B GROUP, TRANSMIT DATA X
0(A,B)0TY	1/3,16	SIDE 0, A OR B GROUP, TRANSMIT DATA Y
0(A,B)0TZ	1/3,16	SIDE 0, A OR B GROUP, TRANSMIT DATA Z
0(A,B)(0-9)T1CLK	1/7,9,10	SIDE 0, GROUP A OR B, PERIPHERAL INTERFACE DATA BUS 0 THROUGH 9, T1 CLOCK
0(A,B)(0-9)T1STA	1/8,8,10	SIDE 0, GROUP A OR B, PERIPHERAL INTERFACE DATA BUS 0 THROUGH 9, T1 STATUS
0(A,B)(0-9)4MCN	1/3,16	SIDE 0, GROUP A OR B, PERIPHERAL INTERFACE DATA BUS 0 THROUGH 9, 4 MHZ CLOCK (NEG)
0(A,B)(0-9)4MCP	1/3,16	SIDE 0, GROUP A OR B, PERIPHERAL INTERFACE DATA BUS 0 THROUGH 9, 4 MHZ CLOCK (POS)
0(A,B)(0-9)8KSN	1/3,16	SIDE 0, GROUP A OR B, PERIPHERAL INTERFACE DATA BUS 0 THROUGH 9, 2 KHZ CLOCK (NEG)
0(A,B)(0-9)8KSP	1/3,16	SIDE 0, GROUP A OR B, PERIPHERAL INTERFACE DATA BUS 0 THROUGH 9, 2 KHZ CLOCK (POS)

MNEMONICS	FS/SYM	DEFINITION
(0,1)DLIALM	1-2/1	SIDE 0 OR 1, ALARM
(0,1)DLIALMP	1-2/1	SIDE 0 OR 1, DLI ALARM LAMP
(0,1)DLIINT	1-2/5	SIDE 0 OR 1, DLI INTERRUPT
(0,1)DLIOOS	1-2/1	SIDE 0 OR 1, DLI OUT-OF-SERVICE
(0,1)DLIS1	1-2/1	SIDE 0 OR 1, DLI SHUTDOWN 1
(0,1)DLIS2	1-2/1	SIDE 0 OR 1, DLI SHUTDOWN 2
(0,1)DLIS3	1-2/1	SIDE 0 OR 1, DLI SHUTDOWN 3
(0,1)DOOS48	1-2/1	SIDE 0 OR 1, DLI OUT-OF-SERVICE (-48V)
(0,1)FREERUN	1-2/10	SIDE 0 OR 1, SELECT FREERUN
(0,1)FRSQ	1-2/5	SIDE 0 OR 1, FRAME SEQUENCE
(0,1)FRSQT3	1-2/5	SIDE 0 OR 1, FRAME SEQUENCE FROM T3 CARRIER
(0,1)GRD	1-2/10	SIDE 0 OR 1, GROUND
(0,1)MATEEN	1-2/5	SIDE 0 OR 1, MATE ENABLE
(0,1)MCK4M0	1/5,10	SIDE 0 OR 1, MATE CLOCK 4 MHZ, ACTIVE LOW
(0,1)MPCK	1-2/10	SIDE 0 OR 1, MATE CONTROL INTERFACE CLOCK
(0,1)MPOATA	1-2/10	SIDE 0 OR 1, MATE CONTROL DATA IN
(0,1)MPG0	1-2/10	SIDE 0 OR 1, MATE CONTROL INTERFACE COMMAND ENABLE
(0,1)MPOUT	1-2/5	SIDE 0 OR 1, MATE CONTROL DATA OUT
(0,1)(A,B)PWR5	1-2/4,15	SIDE 0 OR 1, +5 VOLT POWER
(0,1)RA(0-7)	1-2/5	SIDE 0 OR 1, RECEIVE ADDRESS BITS 0 THROUGH 7
(0,1)(A,B)RECV	1-2/4,15	SIDE 0 OR 1,RECEIVE FROM SWITCHING MODULE
(0,1)(A,B)XMIT	1-2/4,15	SIDE 0 OR 1 TRANSMIT TO SWITCHING MODULE
00CK8MH	1/5	SIDE 0, CLOCK 8 MHZ
00SYN6NS	1/5	SIDE 0, 0 SELECT SYNC 6 MHZ
01CK8MH	1/5	SIDE 0, 1 CLOCK 8 MHZ
04KOUT	1/10	SIDE 0, 4K OUTPUT
08KIN0	1/10	SIDE 0, 8K INPUT FOR CIRCUIT 0
08KIN1	1/10	SIDE 0, 8K INPUT FOR CIRCUIT 1
08KREF	1/10	SIDE 0, 8K REFERENCE
08KRTN0	1/10	SIDE 0, 8K RETURN FOR CIRCUIT 0
08KRTN1	1/10	SIDE 0, 8K RETURN FOR CIRCUIT 1
0(0,1)CN	1-2/10	SIDE 0, 0 OR 1 CLOCK (NEG)
0(0,1)CP	1-2/10	SIDE 0, 0 OR 1 CLOCK (POS)
0(0,1)ION	1-2/10	SIDE 0, 0 OR 1 IN DATA (NEG)
0(0,1)IDP	1-2/10	SIDE 0, 0 OR 1 IN DATA (POS)
0(0,1)NINTIN	1-2/10	SIDE 0, 0 OR 1 NEGATIVE INTERRUPT (NEG)

MNEMONICS	FS/SYM	DEFINITION
0(0,1)NINTIP	1-2/10	SIDE 0, 0 OR 1 NEGATIVE INTERRUPT (POS)
0(0,1)ODN	1-2/10	SIDE 0, 0 OR 1 OUT DATA (NEG)
0(0,1)ODP	1-2/10	SIDE 0, 0 OR 1 OUT DATA (POS)
0(0,1)SN	1-2/10	SIDE 0, 0 OR 1 SYNC (NEG)
0(0,1)SP	1-2/10	SIDE 0, 0 OR 1 SYNC (POS)
1+CURPR	2/4	SIDE 1, PLUS CURRENT PROGRAMMING RESISTOR
1+12	2/2	SIDE 1, +12 VOLT POWER
1+5V	2/2	SIDE 1, +5 VOLT POWER
1-CURPR	2/4	SIDE 1, MINUS CURRENT PROGRAMMING RESISTOR
1-48RTN	2/1	SIDE 1, -48 VOLT RETURN
1-48V	2/1	SIDE 1, -48 VOLT POWER FEED
1(A,B)BUFER	2/4,15	SIDE 1, GROUP A OR B BUFFER
1(A,B)CERAM0	2/4,15	SIDE 1, GROUP A OR B, CHIP ENABLE RAM, ACTIVE LOW
1(A,B)CKCCI	2/5	SIDE 1, GROUP A OR B, CLOCK CENTRAL PROCESSOR INTERVENTION
1(A,B)CK16M	2/10	SIDE 1, GROUP A OR B, 16 MHZ CLOCK
1(A,B)CK2M1	2/4,15	SIDE 1, GROUP A OR B, CLOCK 2 MHZ
1(A,B)CK32	2/5	SIDE 1, GROUP A OR B, 32 MHZ CLOCK
1(A,B)CK4K1	2/5	SIDE 1, GROUP A OR B, CLOCK 4 KHZ
1(A,B)CK8MC	2/10	SIDE 1, GROUP A OR B, CLOCK 8 MHZ
1(A,B)COND5	2/4,15	SIDE 1, LINK CONDITIONED POWER
1(A,B)DFRSQ	2/5	SIDE 1, GROUP A OR B, DISABLE FRAME SEQUENCE
1(A,B)DSFBIT	2/5	SIDE 1, GROUP A OR B, ADD S AND F BIT
1 (A,B)ECTRIN	2/4,15	SIDE 1, GROUP A OR B, ERROR COUNTER INPUT
1(A,B)INFRIN	2/4,15	SIDE 1, GROUP A OR B, INFRAME INPUT
1(A,B)INT	2/1	SIDE 1, GROUP A OR B INTERRUPT
1(A,B)LOOP	2/5	SIDE 1, GROUP A OR B, LOOP LINK
1(A,B)MUXCR	2/10	SIDE 1, GROUP A OR B, MUX CONTROL REGISTER ENABLE
1(A,B)MUXDI	2/3,16	SIDE 1, GROUP A OR B, MUX DATA IN
1(A,B)MUXDO	2/10	SIDE 1, GROUP A OR B, MUX DATA OUT
1(A,B)MUXER	2/10	SIDE 1, GROUP A OR B, MUX ERROR REGISTER ENABLE
1(A,B)MUXINT	2/3,16	SIDE 1, GROUP A OR B, MUX INTERRUPT
1(A,B)MUXRD	2/10	SIDE 1, GROUP A OR B, MUX READ
1(A,B)MUXSH	2/10	SIDE 1, GROUP A OR B, , MUX SHIFT CLOCK
1(A,B)MUXWR	2/10	SIDE 1, GROUP A OR B, MUX WRITE

FACILITIES INTERFACE UNIT
MODEL 2

DWG SIZE	ISSUE
C2	8B

AT&T	SD-5D401-01	SHEET A2

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DESIGNATION MNEMONICS

MNEMONICS	FS/SYM	DEFINITION
1(A,B)RPAR	2/4,15	SIDE 1, GROUP A OR B, RECEIVE PARITY ERROR
1(A,B)RPARIN	2/5	SIDE 1, GROUP A OR B, RECEIVE PARITY INPUT
1(A,B)SICODE	2/5	SIDE 1, GROUP A OR B, SEND IDLE CODE
1(A,B)SYN2M0	2/5	SIDE 1, GROUP A OR B, SYNC 2 MHZ, ACTIVE LOW
1(A,B)SYN4K	2/10	SIDE 1, GROUP A OR B, SYNC 4 KHZ
1(A,B)TPAR	2/4,15	SIDE 1, GROUP A OR B, TRANSMIT PARITY ERROR
1ATPARIN	2/5	SIDE 1, GROUP A TRANSMIT PARITY INPUT
1(A,B)WA7	2/4,15	SIDE 1, GROUP A OR B, WRITE ADDRESS, BIT 7
1(A,B)WRENO	2/4,15	SIDE 1, GROUP A OR B, WRITE ENABLE, ACTIVE LOW
1(A,B)(0-9)DFIST	2/6,8 11,13	SIDE 1, GROUP A OR B, DFI STATUS 0 THROUGH 9
1(A,B)(0-9)PBIN	2/3,16	SIDE 1, GROUP A OR B, PERIPHERAL INTERFACE DATA BUS 0 THROUGH 9, DATA IN (NEG)
1(A,B)(0-9)PBIP	2/3,16	SIDE 1, GROUP A OR B, PERIPHERAL INTERFACE DATA BUS 0 THROUGH 9, DATA IN (POS)
1(A,B)(0-9)PBON	2/3,16	SIDE 1, GROUP A OR B, PERIPHERAL INTERFACE DATA BUS 0 THROUGH 9, DATA OUT (NEG)
1(A,B)(0-9)PBOP	2/3,16	SIDE 1, GROUP A OR B, PERIPHERAL INTERFACE DATA BUS 0 THROUGH 9, DATA OUT (POS)
1(A,B)(0-9)RESET	2/7,9 12,14	SIDE 1, GROUP A OR B, PERIPHERAL INTERFACE DATA BUS 0 THROUGH 9, RESET
1(A,B)0RP	2/4,15	SIDE 1, A OR B GROUP, RECEIVE PARITY
1(A,B)0RX	2/4,15	SIDE 1, A OR B GROUP, RECEIVE DATA X
1(A,B)0RY	2/4,15	SIDE 1, A OR B GROUP, RECEIVE DATA Y
1(A,B)0RZ	2/4,15	SIDE 1, A OR B GROUP, RECEIVE DATA Z
1(A,B)0TP	2/3,16	SIDE 1, A OR B GROUP, TRANSMIT PARITY
1(A,B)0TX	2/3,16	SIDE 1, A OR B GROUP, TRANSMIT DATA X
1(A,B)0TY	2/3,16	SIDE 1, A OR B GROUP, TRANSMIT DATA Y
1(A,B)0TZ	2/3,16	SIDE 1, A OR B GROUP, TRANSMIT DATA Z
1(A,B)(0-9)T1CLK	2/7,9,10	SIDE 1, GROUP A OR B, PERIPHERAL INTERFACE DATA BUS 0 THROUGH 9, T1 CLOCK
1(A,B)(0-9)T1STA	2/6,8,10	SIDE 1, GROUP A OR B, PERIPHERAL INTERFACE DATA BUS 0 THROUGH 9, T1 STATUS
1(A,B)(0-9)4MCN	2/3,16	SIDE 1, GROUP A OR B, PERIPHERAL INTERFACE DATA BUS 0 THROUGH 9, 4 MHZ CLOCK (NEG)
1(A,B)(0-9)4MCP	2/3,16	SIDE 1, GROUP A OR B, PERIPHERAL INTERFACE DATA BUS 0 THROUGH 9, 4 MHZ CLOCK (POS)
1(A,B)(0-9)8KSN	2/3,16	SIDE 1, GROUP A OR B, PERIPHERAL INTERFACE DATA BUS 0 THROUGH 9, 2 KHZ CLOCK (NEG)
1(A,B)(0-9)8KSP	2/3,16	SIDE 1, GROUP A OR B, PERIPHERAL INTERFACE DATA BUS 0 THROUGH 9, 2 KHZ CLOCK (POS)
1BBUFER	2/15	SIDE 1 GROUP B, BUFFER
10CKBMH	2/5	SIDE 1, CLOCK 8 MHZ TO SWITCHING MODULE
1(0,1)CN	2/10	SIDE 1, 0 OR 1 CLOCK (NEG)
1(0,1)CP	2/10	SIDE 1, 0 OR 1 CLOCK (POS)
1(0,1)IDN	2/10	SIDE 1, 0 OR 1 IN DATA (NEG)
1(0,1)IDP	2/10	SIDE 1, 0 OR 1 IN DATA (POS)
1(0,1)NINTIN	2/10	SIDE 1, 0 OR 1 NEGATIVE INTERRUPT (NEG)
1(0,1)NINTIP	2/10	SIDE 1, 0 OR 1 NEGATIVE INTERRUPT (POS)
1(0,1)ODN	2/10	SIDE 1, 0 OR 1 OUT DATA (NEG)
1(0,1)ODP	2/10	SIDE 1, 0 OR 1 OUT DATA (POS)
1(0,1)SN	2/10	SIDE 1, 0 OR 1 SYNC (NEG)
1(0,1)SP	2/10	SIDE 1, 0 OR 1 SYNC (POS)
10SYN8MS	2/5	SIDE 1, 0 SELECT SYNC 8 MHZ
11CKBMH	2/5	SIDE 1, 1 CLOCK 8 MHZ
14KOUT	2/10	SIDE 1, 4K OUTPUT
18KIN0	2/10	SIDE 1, 8K INPUT FOR CIRCUIT 0
18KIN1	2/10	SIDE 1, 8K INPUT FOR CIRCUIT 0
18KREF	2/10	SIDE 1, 8K REFERENCE
18KRTN0	2/10	SIDE 1, 8K RETURN FOR CIRCUIT 0
18KRTN1	2/10	SIDE 1, 8K RETURN FOR CIRCUIT 1

FACILITIES INTERFACE UNIT
MODEL 2

DWG SIZE C2 | ISSUE 8B

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APPARATUS INDEX

CODE	EQUIP LOC	SHEET LOC	APP FIG.	OPTION
TN618	04-066	B4D4	2	(Z)
TN618	04-156	B11D4	2	(Z)
TN618B	04-066	B4E4	2	(Y)
TN618B	04-156	B11E4	2	(Y)
TN618C	04-066	B4E4	2	(Y)
TN618C	04-156	B11E4	2	(Y)
TN618D	04-066	B4E4	2	(B)
TN618D	04-156	B11E4	2	(B)
TN619	04-036	B1D6	2	(W)
TN619	04-066	B6E6	2	(W)
TN619	04-126	B8E6	2	(W)
TN619	04-176	B13E6	2	(W)
TN834	04-046	B2D3	2	
TN834	04-076	B5D3	2	
TN834	04-136	B9D3	2	
TN834	04-166	B12D3	2	
TN835	04-056	B3D4	2	
TN835	04-146	B10D4	2	
TN1039	04-036	B1D6	2	(X)
TN1039	04-066	B6E6	2	(X)
TN1039	04-126	B8E6	2	(X)
TN1039	04-176	B13E6	2	(X)
495KA	04-026	B1D2	2	
495KA	04-116	B8D2	2	
982CF	01-046R	B2D6	3	(G)
982CF	01-076R	B5D6	3	(G)
982CF	01-136R	B9D6	3	(G)
982CF	01-166R	B12D6	3	(G)
982CG	03-046R	B2D7	3	(G)
982CG	03-076R	B5D7	3	(G)
982CG	03-136R	B9D7	3	(G)
982CG	03-166R	B12D7	3	(G)
982TR	02-046R	B2D6	3	(T)
982TR	02-076R	B5D6	3	(T)
982TR	02-136R	B9D6	3	(T)
982TR	02-166R	B12D6	3	(T)
TN1802	04-036	B1D6	2	(J)
TN1802	04-066	B6E6	2	(J)
TN1802	04-126	B8E6	2	(J)
TN1802	04-176	B13E6	2	(J)
982TRC	02-046R	B2D6	3	(M)
982TRC	02-076R	B5D6	3	(M)
982TRC	02-136R	B9D6	3	(M)
982TRC	02-166R	B12D6	3	(M)

LEAD INDEX

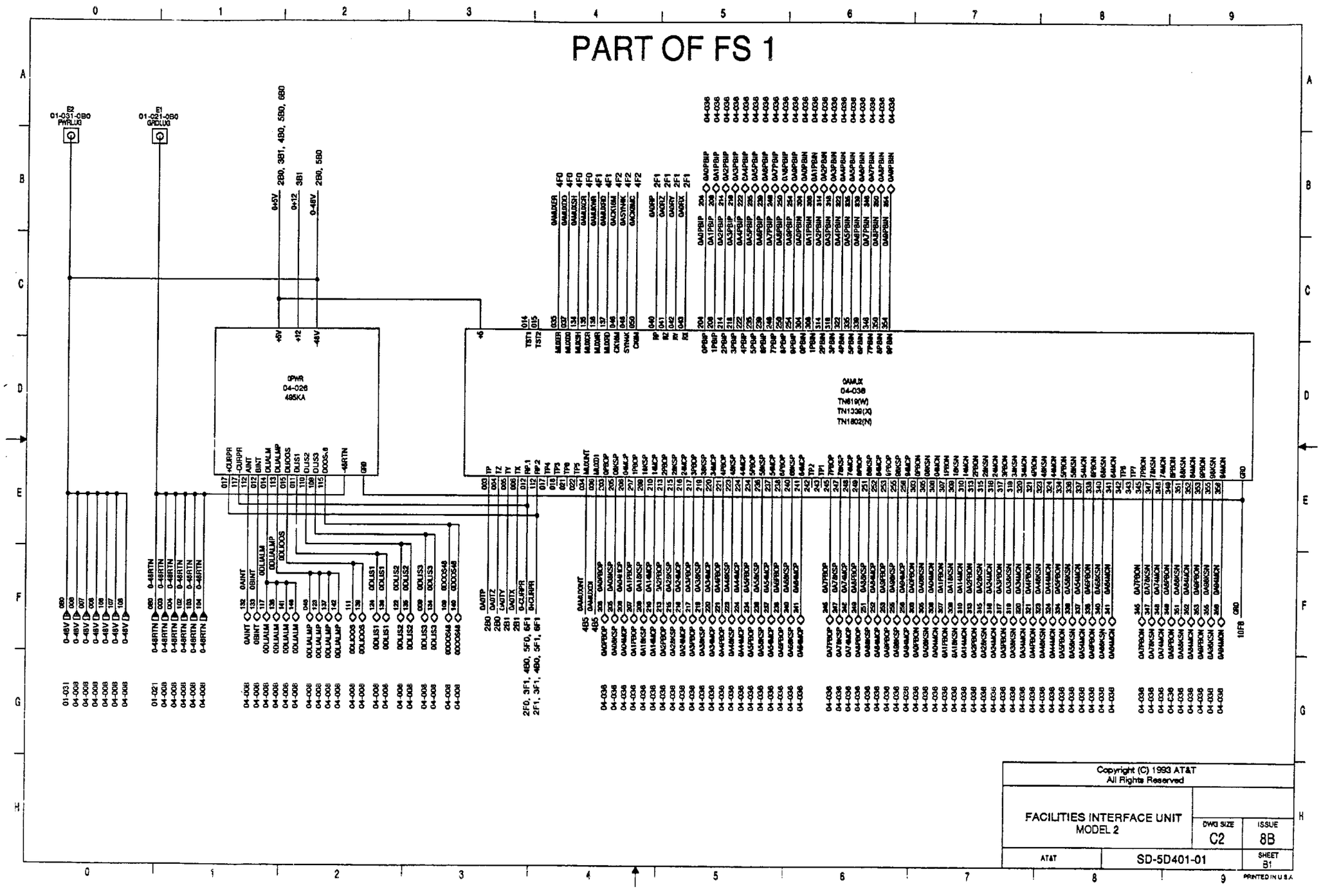
SEE CAD 1

FACILITIES INTERFACE UNIT
MODEL 2

DWG SIZE C2 | ISSUE 8B

AT&T | SD-5D401-01 | SHEET A4

PART OF FS 1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01-021-0B0 GNDLUG
+5V
+12
-48V
0PWR 04-026 495KA
0MUX 04-036 TN619(W) TN1339(X) TN1802(N)
+5
+48RTN
GND
10FB
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FACILITIES INTERFACE UNIT MODEL 2
DWG SIZE C2
ISSUE 8B
AT&T
SD-5D401-01
SHEET B1
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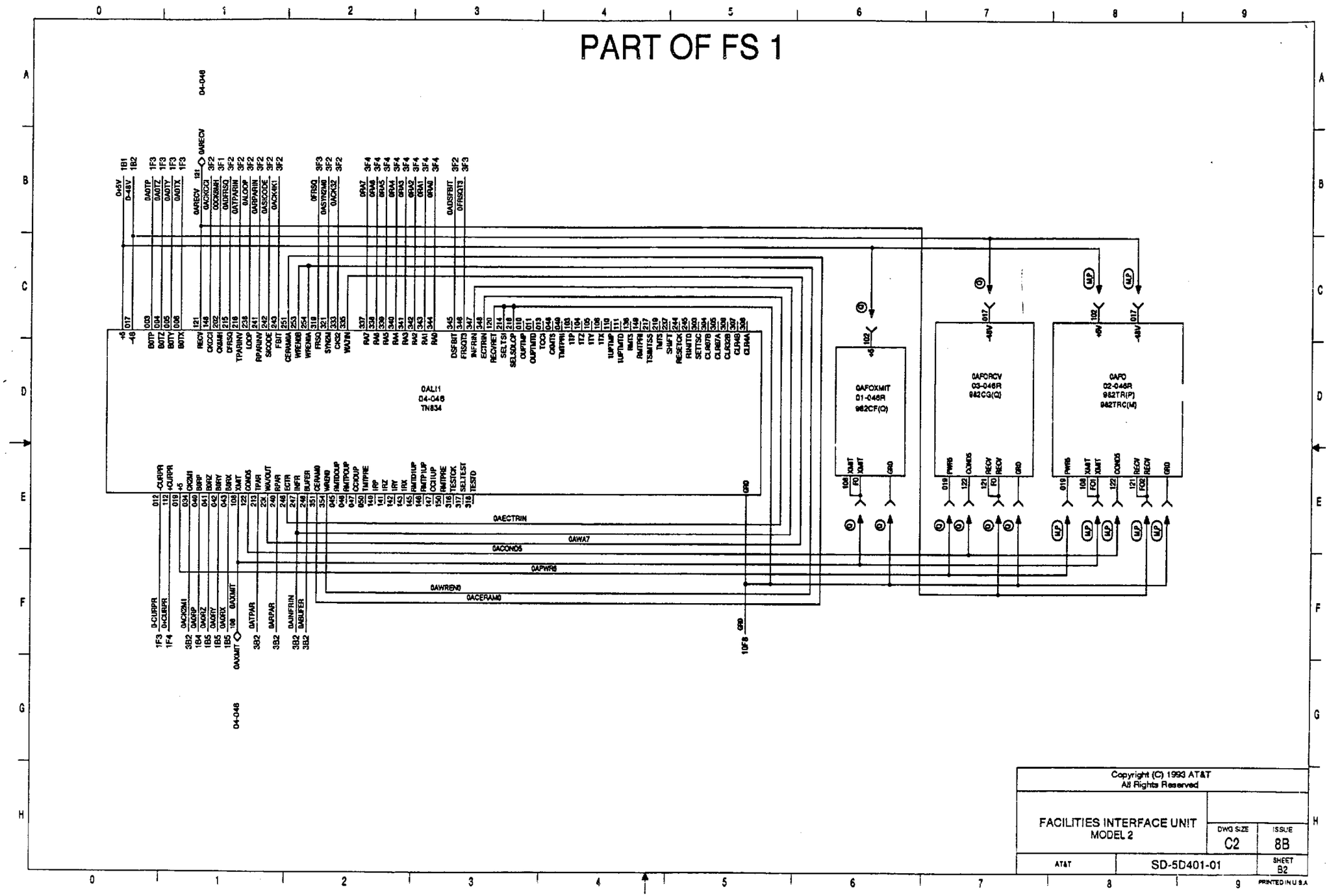
PART OF FS 1


0AL11
04-046
TN834
0AFOXMIT
01-046R
982CF(O)
0AFORCV
03-046R
982CG(Q)
0AFO
02-046R
982TR(P)
982TRC(M)
04-046
0AECTRIN
0AWA7
0ACONOS
0APWRS
0AWREND
0ACERAM0
GRD
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FACILITIES INTERFACE UNIT
MODEL 2
DWG SIZE
C2
ISSUE
8B
AT&T
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B2
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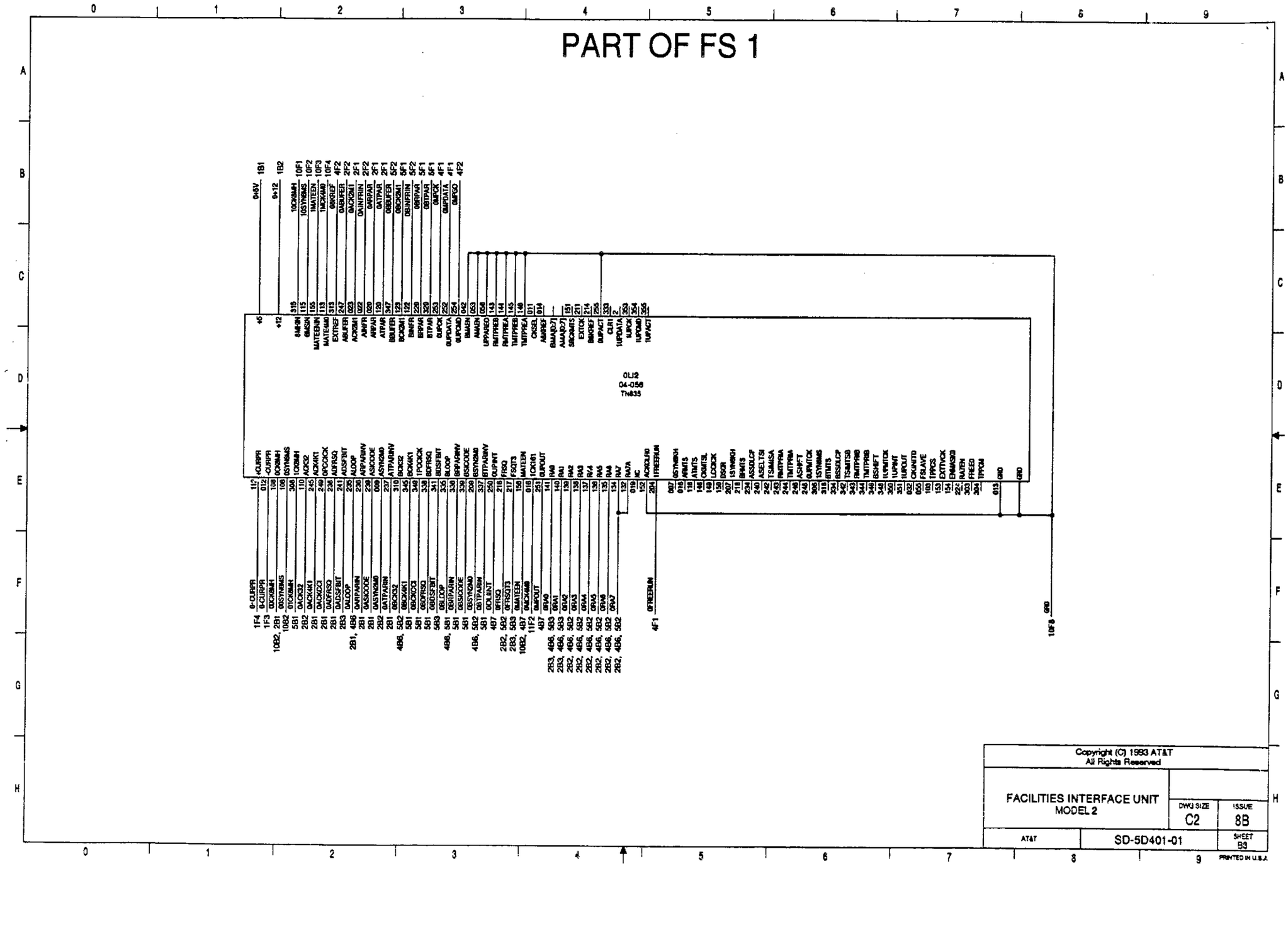
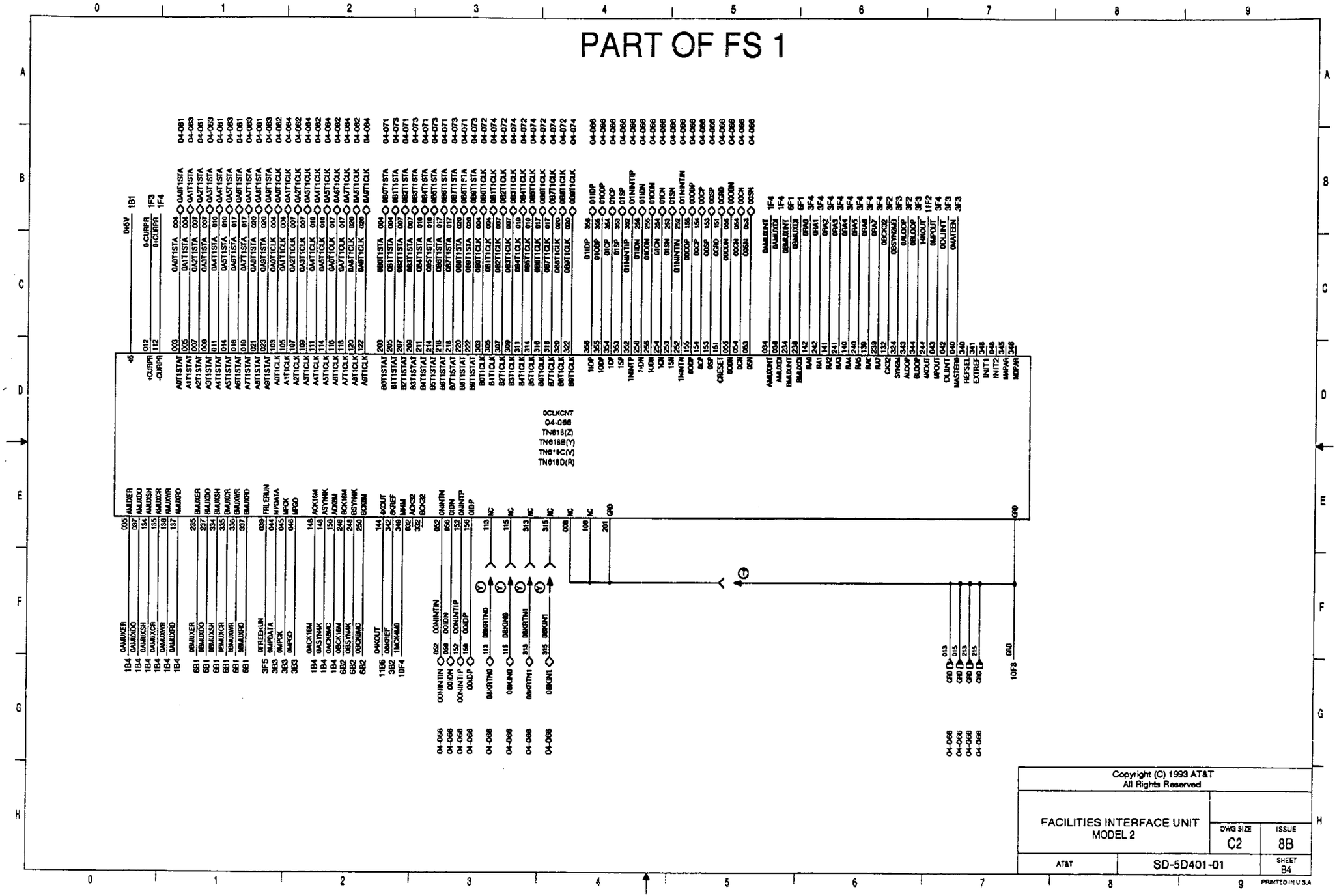
PART OF FS 1



PART OF FS 1


+5V 1B1
+CURPR 1F3
-CURPR 1F4
0CLKCNT
04-066
TN618(Z)
TN618B(Y)
TN618C(V)
TN618D(R)
NC
GND
10F3
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FACILITIES INTERFACE UNIT
MODEL 2
DWG SIZE C2
ISSUE 8B
AT&T
SD-5D401-01
SHEET B4
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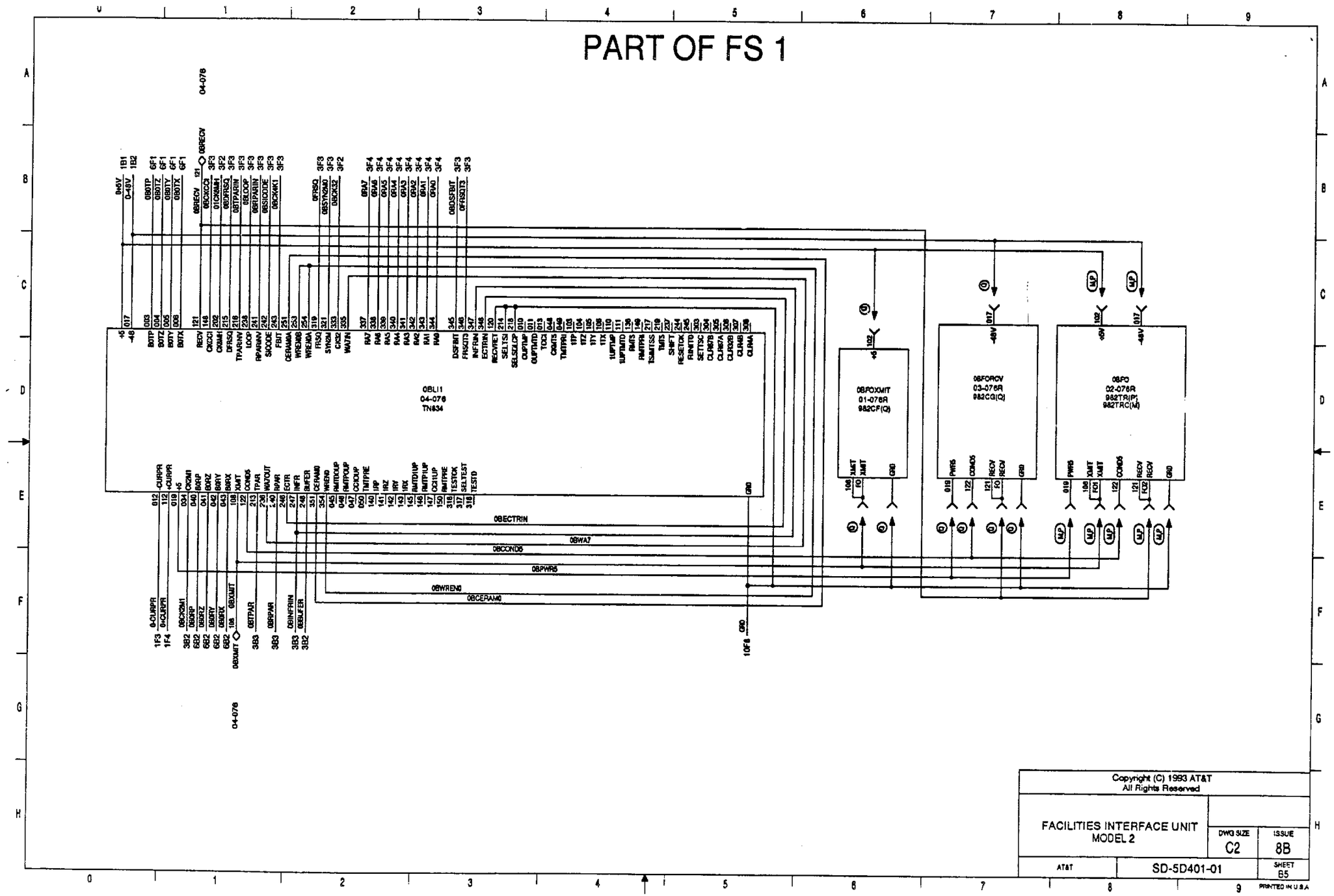
PART OF FS 1



FACILITIES INTERFACE UNIT MODEL 2		DWG SIZE C2	ISSUE 8B
AT&T	SD-5D401-01		SHEET B5

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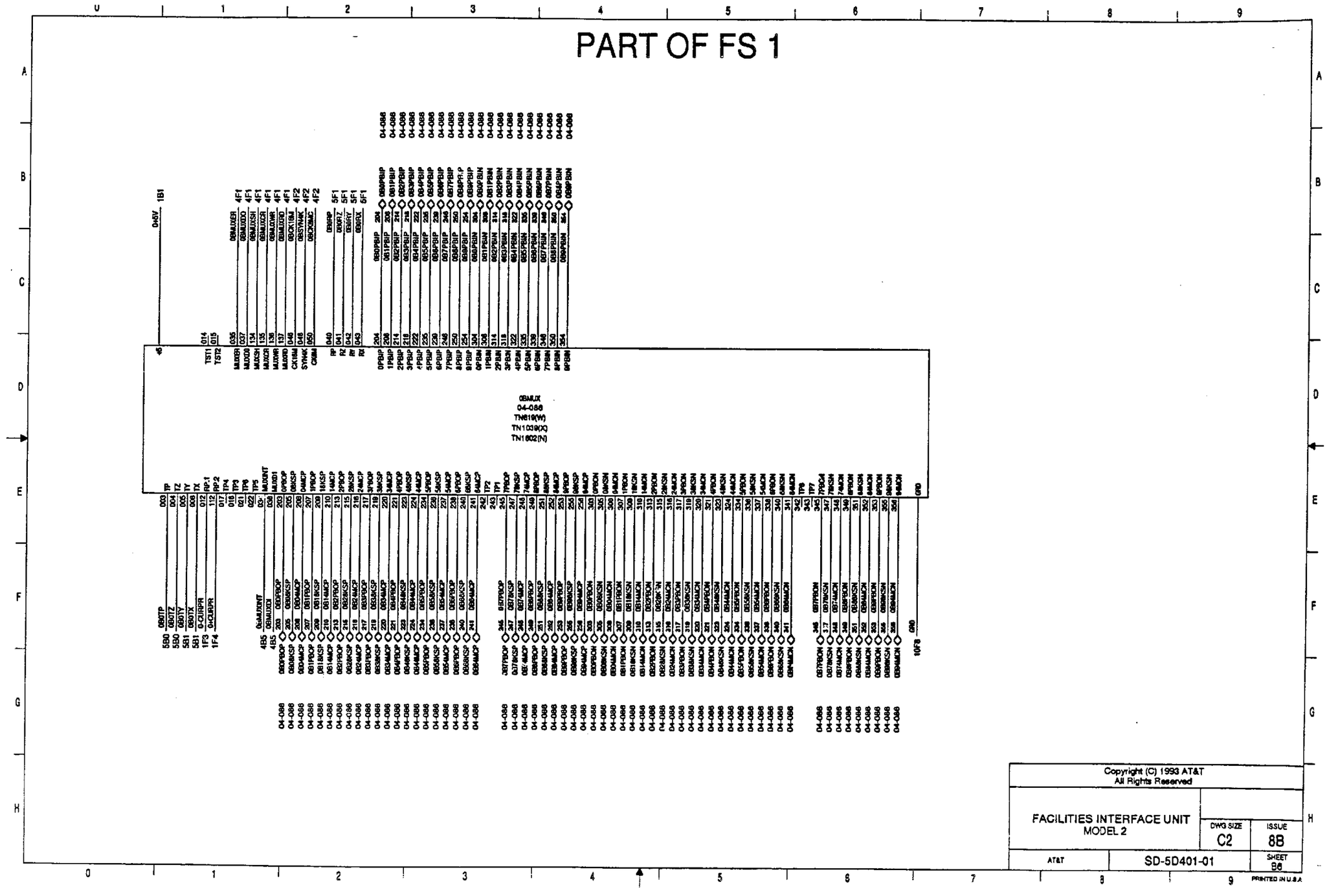
PART OF FS 1



FACILITIES INTERFACE UNIT
MODEL 2

DWG SIZE	ISSUE
C2	8B

AT&T	SD-5D401-01	SHEET
		86

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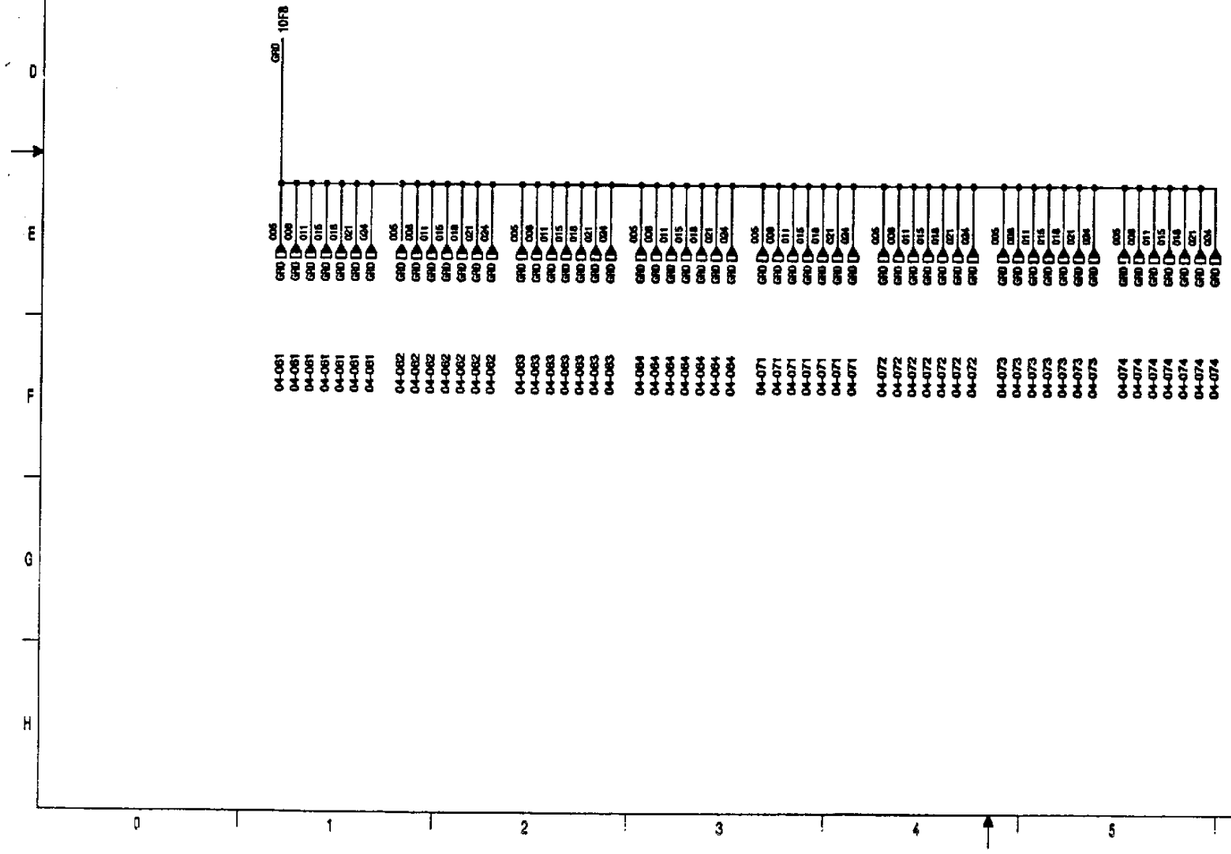
PART OF FS 1



FACILITIES INTERFACE UNIT MODEL 2		DWG SIZE C2	ISSUE 8B
AT&T	SD-5D401-01		SHEET 57

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PART OF FS 2

E4 01-121-080 PWRLUG

E3 01-111-080 GRDLUG

1PWR 04-116 485KA

1AMUX 04-126 TN619(W) TN1039(X) TN1802(N)

FACILITIES INTERFACE UNIT
MODEL 2

DWG SIZE C2 | ISSUE 8B

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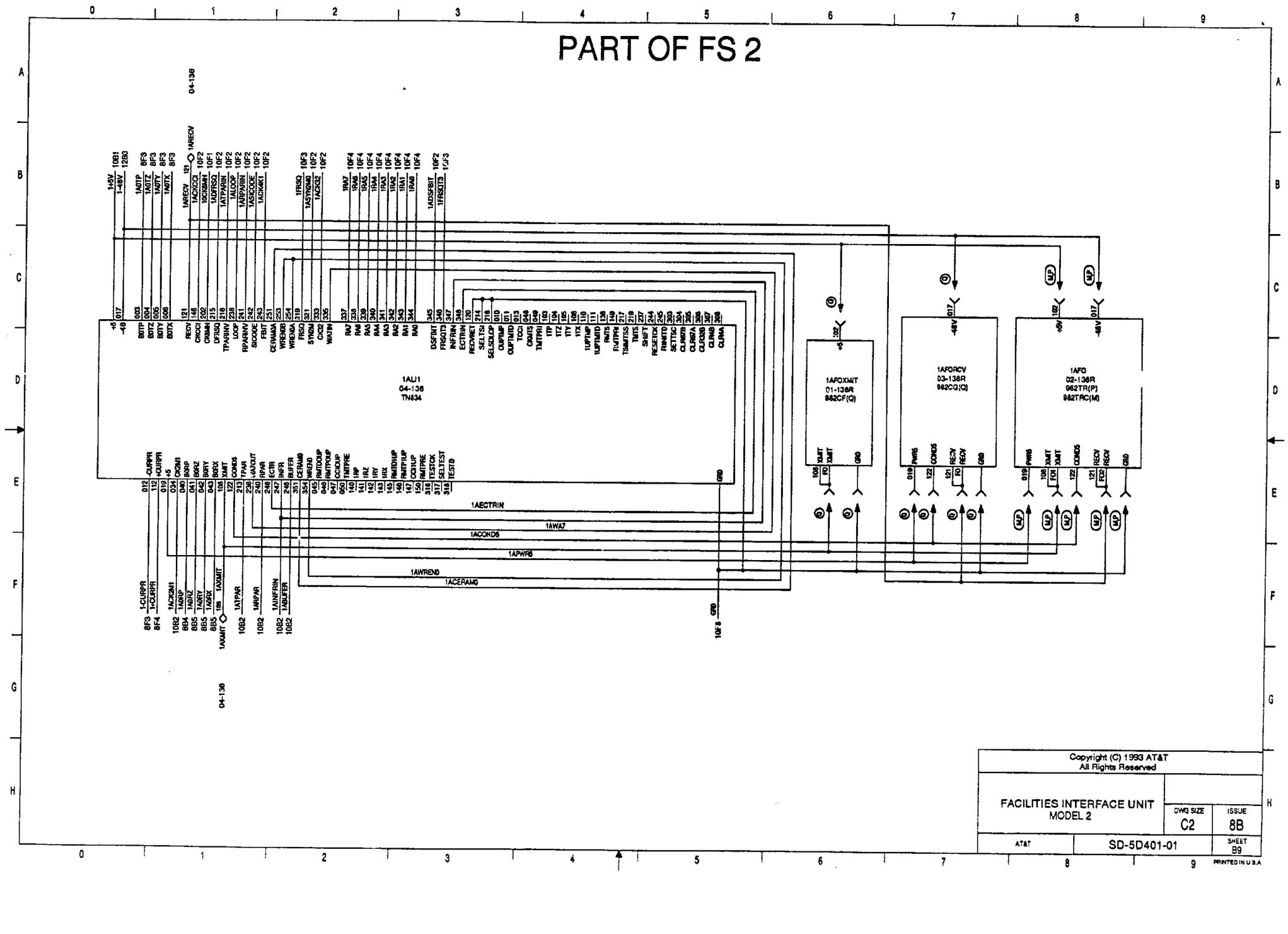
PART OF FS 2



FACILITIES INTERFACE UNIT
MODEL 2

DWG SIZE	ISSUE
C2	8B

AT&T	SD-5D401-01	SHEET
		B9

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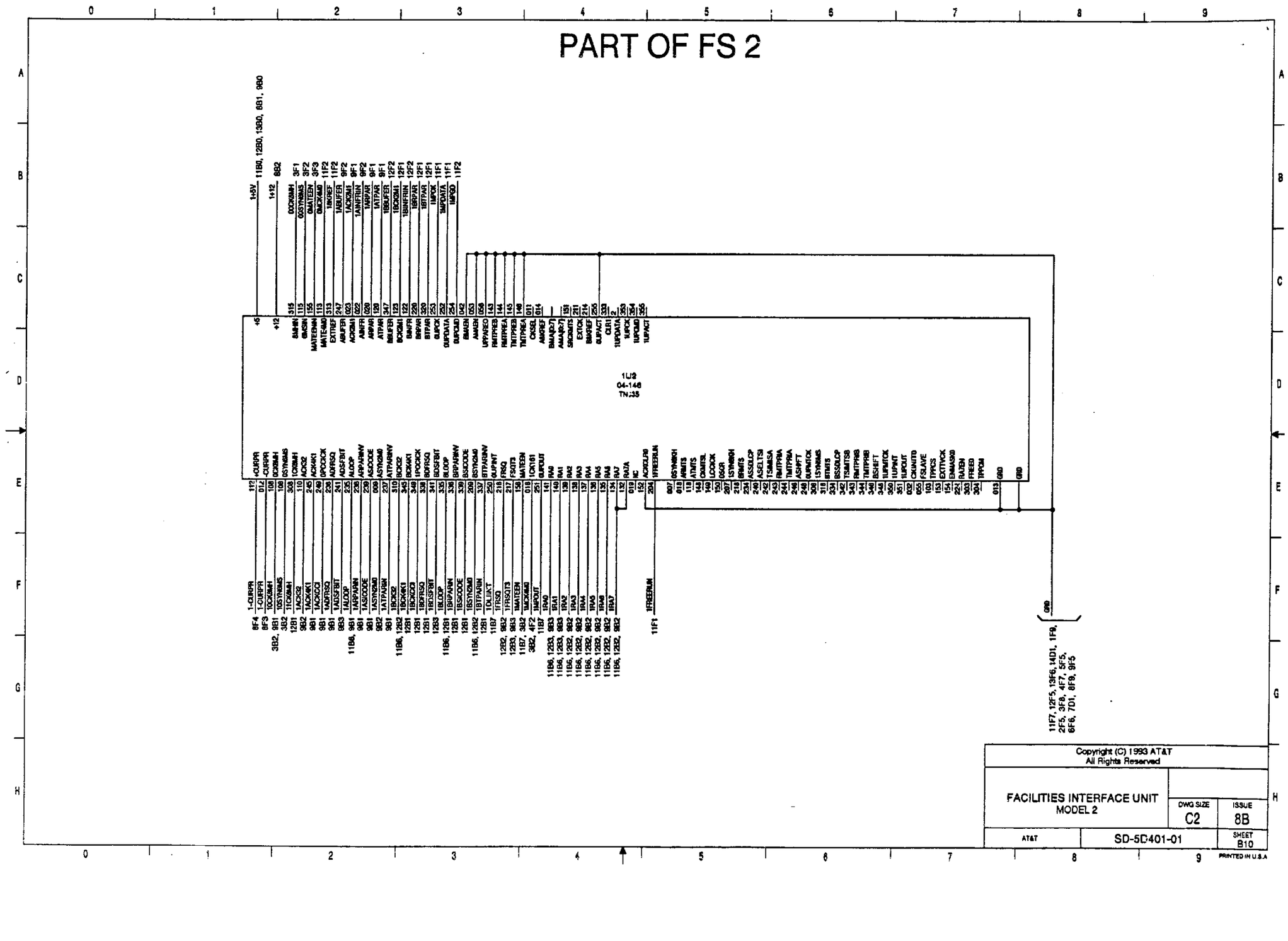
PART OF FS 2



FACILITIES INTERFACE UNIT
MODEL 2

DWG SIZE	ISSUE
C2	8B

AT&T	SD-5D401-01	SHEET
		B10

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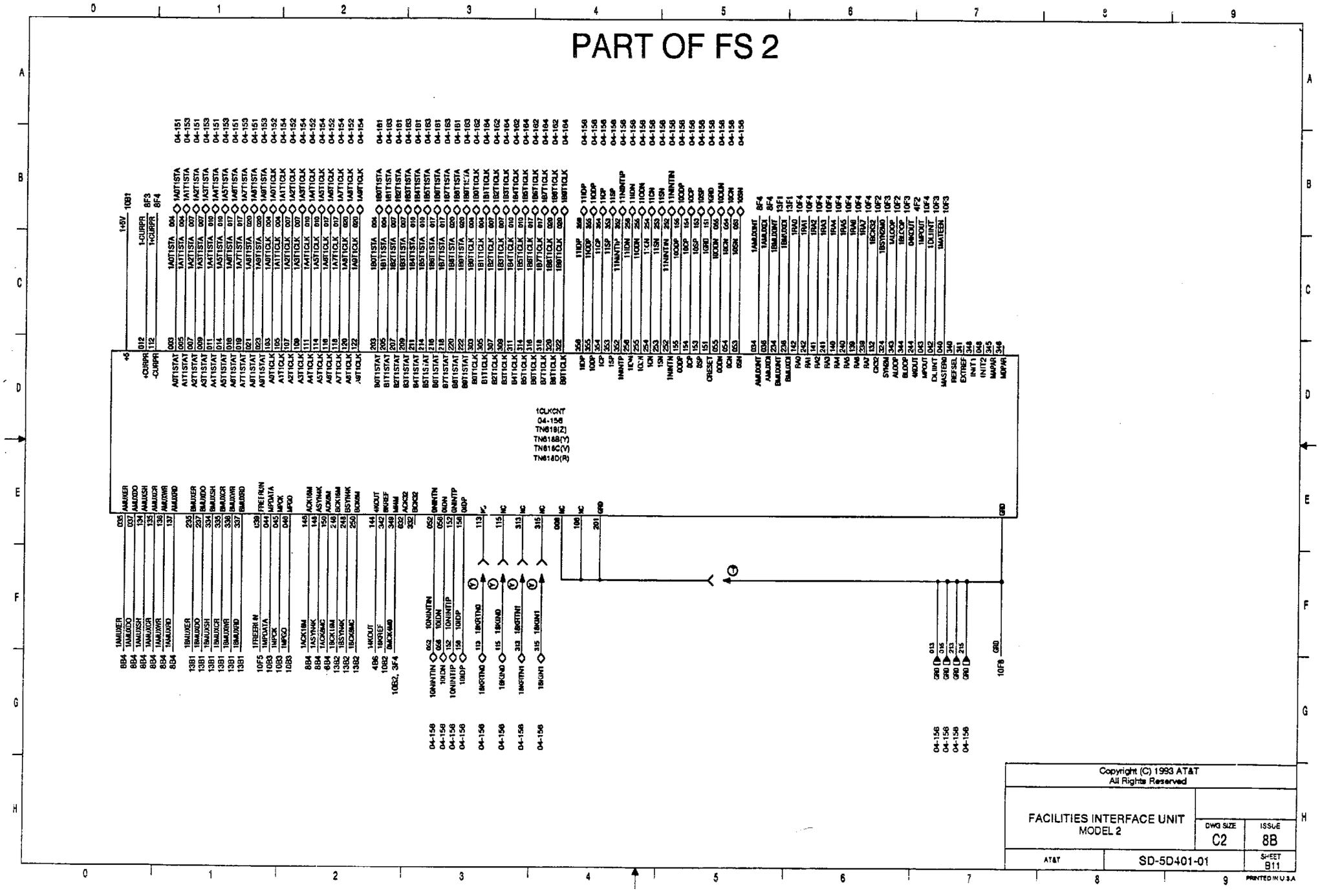
PART OF FS 2



PART OF FS 2

1BLI1
04-166
TN834

1BFOXMIT
01-166R
982CF(Q)

1BFORCV
03-166R
982CG(Q)

1BFO
02-166R
982TR(P)
982TRC(M)

1BECTRIN

1BWA7

1BCOND5

1BPWR5

1BWREN0

1BCERAM0

FACILITIES INTERFACE UNIT
MODEL 2

DWG SIZE C2 | ISSUE 8B

AT&T | SD-5D401-01 | SHEET B12

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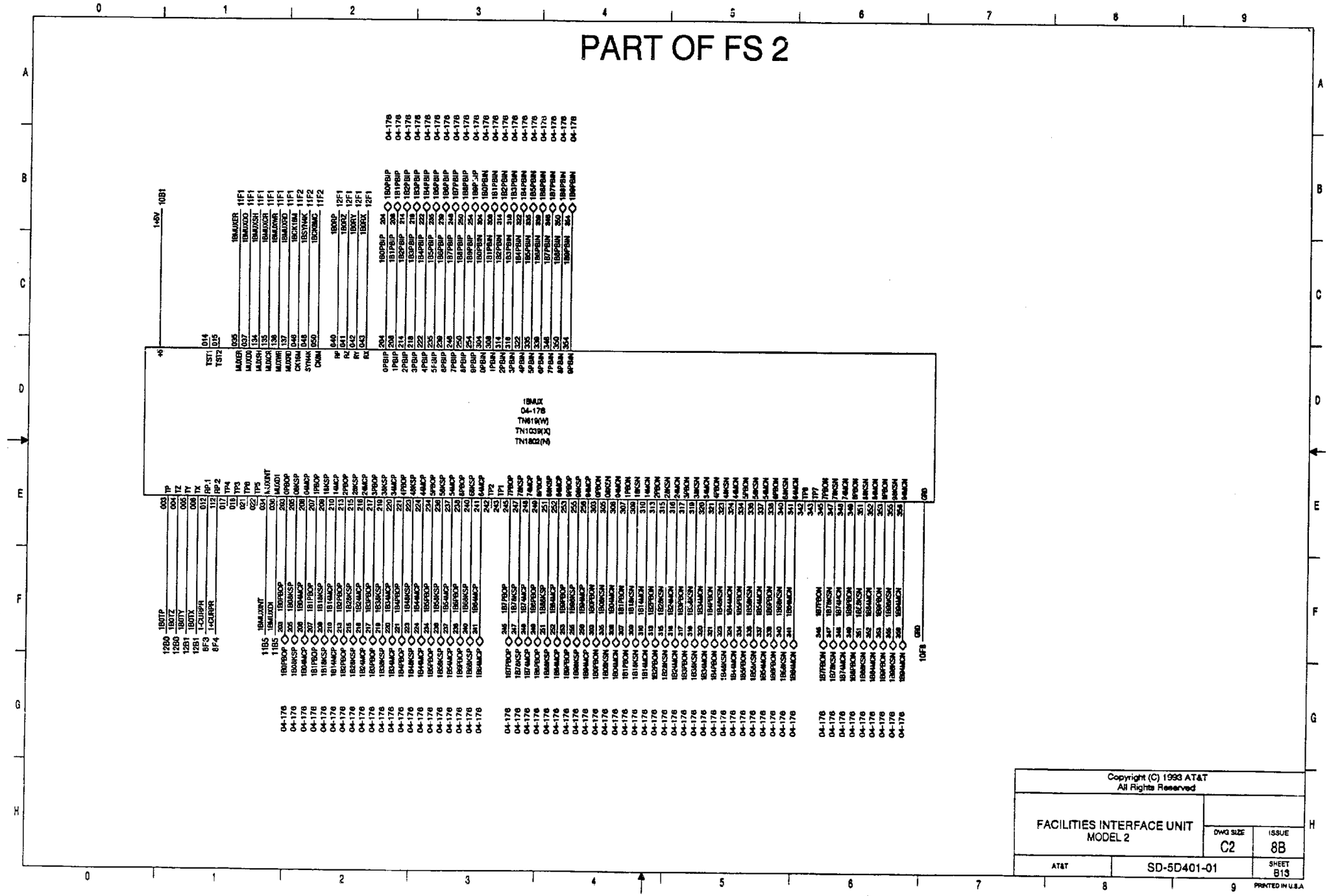
PART OF FS 2

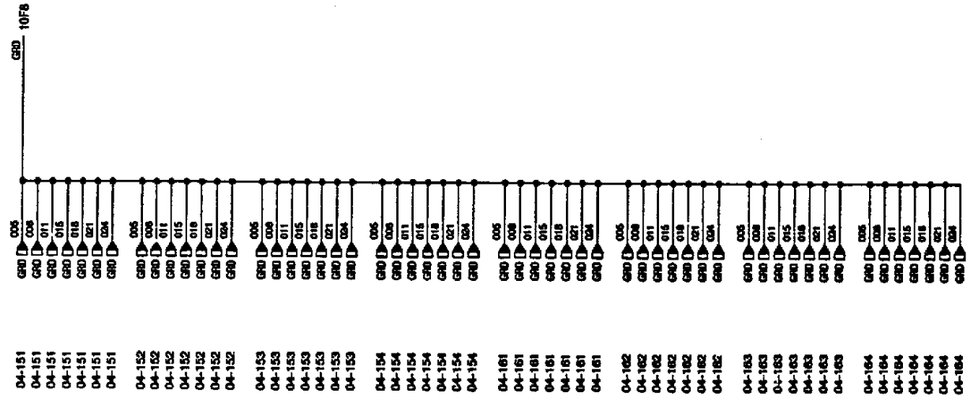


FACILITIES INTERFACE UNIT
MODEL 2

DWG SIZE: C2
ISSUE: 8B
AT&T
SD-5D401-01
SHEET: B13

PRINTED IN U.S.A

PART OF FS 2



FACILITIES INTERFACE UNIT MODEL 2		DWG SIZE C2	ISSUE 8B
AT&T	SD-5D401-01	SHEET B14	

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APPARTUS FIGURES

EQL	04-026	04-036	04-046	04-056	04-066	04-076	04-086	04-116	04-126	04-136	04-146	04-156	04-166	04-176									EQL
APPARATUS FIGURE NUMBER	CODE	CODE	CODE	CODE	CODE	CODE	CODE	CODE	CODE	CODE	CODE	CODE	CODE	CODE	CODE	CODE	CODE	CODE	CODE	CODE	CODE	CODE	APPARATUS FIGURE NUMBER
1*																							1*
2	495KA	(X)TN1039 (W)TN619 (N)TN1802	TN834	TN835	(Z)TN618 (Y)TN618B (V)TN618C	TN834	(X)TN1039 (W)TN619 (N)TN1802	495KA	(X)TN1039 (W)TN619 (N)TN1802	TN834	TN835	(Z)TN618 (Y)TN618B (V)TN618C	TN834	(X)TN1039 (W)TN619 (N)TN1802									2
2					(R)TN618D							(R)TN618D											2
3			01-046R (Q)982CF			01-076R (Q)982CF				01-136R (Q)982CF			01-166R (Q)982CF										3
3			03-046R (Q)982CG			03-076R (Q)982CG				03-136R (Q)982CG			03-166R (Q)982CG										3
3			02-046R (P)982TR			02-076R (P)982TR				02-136R (P)982TR			02-166R (P)982TR										3
3			02-046R (M)982TRC			02-076R (M)982TRC				02-136R (M)982TRC			02-166R (M)982TRC										3

* WIRING AS PER FS 1 & 2

FACILITIES INTERFACE UNIT
MODEL 2

DWG SIZE: C2
ISSUE: 8B
AT&T
SD-5D401-01
SHEET: C1

CIRCUIT NOTES:

101.

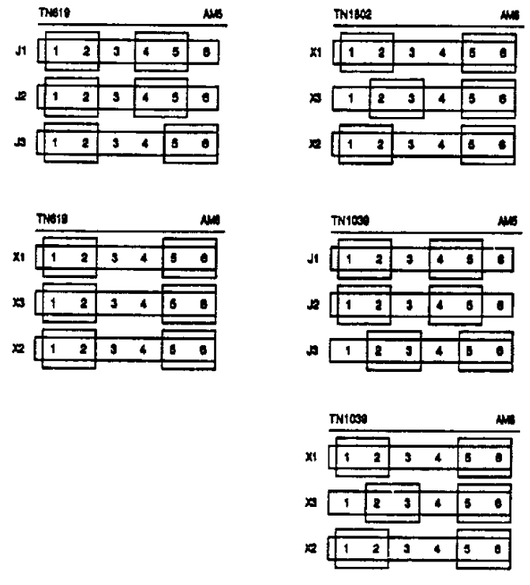
DESIG	FUSE AMP	POTENTIAL	ONE PER
0-48V 1-48V	70C 3A	-48V	SIDE (0,1) TOTAL 2

BATTERY SYMBOL	VOLTAGE RANGE
-48	-42.75 TO -52.50

102. WHEN THE FACILITY INTERFACE UNIT IS USED IN A CABINET EQUIPPED WITH A MODULAR FUSE/FILTER UNIT THE FOLLOWING FUSE ARRANGEMENT IS REQUIRED:

DESIG	FUSE AMP	FUSE TYPE
0-48V	2A	WP 91768 L107
1-48V	2A	WP 91768 L107

103. THE FOLLOWING DIAGRAM PROVIDES PROGRAMMING PLUG POSITION INFORMATION:



FACILITIES INTERFACE UNIT
MODEL 2

DWG SIZE	ISSUE
C2	8B

AT&T	SD-5D401-01	SHEET
		D1

EQUIPMENT NOTES:

201. UNLESS OTHERWISE SPECIFIED, ALL BACKPLANE WIRING WILL BE AUTOMATIC MACHINE WIRING (A-D4) 30 GAUGE. WHICH HAS BEEN PROCESSED BY THE WESWRAP PROGRAMS.

202. ALL PRINTED WIRING CONNECTIONS ARE SPECIFIED BY ED-5D623-30.

FACILITIES INTERFACE UNIT MODEL 2	DWG SIZE	ISSUE
	C2	8B
AT&T	SD-5D401-01	SHEET D2

INFORMATION NOTES:

301. UNLESS OTHERWISE SPECIFIED:
RESISTANCE VALUES ARE IN OHMS,
CAPACITANCE VALUES ARE IN MICROFARADS,
VALUES PRECEDED BY THE SYMBOL + (PLUS)
OR - (MINUS) ARE IN VOLTS.

302.

FEATURE OR OPTION		PROVIDE APP FIG	PROVIDE APP OPT WIRE	PROVIDE QUANTITY
BACKPLANE & WIRING	24 CHANNEL	1	S	1 PER SIDE
	30 CHANNEL		T	
MINIMUM EQUIPAGE	FACILITIES INTERFACE (TN834)	2		2 PER SIDE
	LINK INTERFACE (TN835)			
	POWER (495KA)			1 PER SIDE
CLOCK CONTROLLER	NO RCU (TN618)		Z	
	WITH RCU OR WITHOUT 24 CHANNEL (TN618B)		Y	
	24 CHANNEL WITH OR WITHOUT RCU (TN618C)		V	
	24 OR 30 CHANNEL WITH OR WITHOUT RCU (TN618D)		R	
MULTIPLEXER	(SEE NOTE 305)			2 PER SIDE
	24 CHANNEL (TN619)		W	
	30 CHANNEL (TN1039)		X	
	24 CHANNEL (TN1602)		N	
NCT LINK FIBER OPTIC CONNECTORS	ODL40 TYPE (4) 982CF (4) 982CG	3	Q	2 PER SIDE
	ODL50 TYPE (4) 982TR		P	
	LDT TYPE (4) 982TRC (SEE NOTE 306)		M	

INFORMATION NOTES: (CONT)

303.

RECORD OF FIGURES, WIRING AND APPARATUS CHANGES						
CHANGED ON ISS	IF JOB RECORDS DO NOT SPECIFY	THIS OPTION WAS FURN	SEE NOTE	USE IN CIRCUIT STD	ALM	MD
2B	Y	Y OR Z		Y		Z
4A	W			W		
4A	X			X		
5AC		S,T,V		S,T,V		
				AVAIL		DA
6A		R		R		
7M		P,Q		P,Q		
8B		M,N		M,N		

PRIOR TO ISSUE 6A, COLUMNS HEADED "STD", "MD", ETC., CONVEYED APPLICATION INFORMATION. AT ISSUE 6A, COLUMNS HEADED "AVAIL" AND "DA" NOW INDICATE THE AVAILABILITY OF THE PRODUCT.

304.

CIRCUIT PACK CODE OR MICROCODE	COMMON LANGUAGE EQUIPMENT IDENTIFICATION CODE (CLEI)
TN618 TN618B TN618C TN618D	E5PQ21BAXX E5PQAABAXX E5PQ37XAXX E5PQ17XAXX
TN619 TN834 TN835	E5PQ21CAXX E5PQ29YAXX E5PQ29TAXX
TN1039 495KA	E5PQAAKAXX PWPQ54EAXX
TN1602	E5PQA37AAC

305. OPTIONS W AND X TO BE USED WHEN FIU INTERFACES WITH A DLTU.
OPTION N TO BE USED WHEN FIU 2 OR 3 INTERFACES WITH A DLTU2.

306. THE 982TRC LDT PRODUCT MEETS THE INTERNATIONAL CIS PER 22 EMC REQUIREMENTS.

FACILITIES INTERFACE UNIT
MODEL 2

DWG SIZE C2 | ISSUE 8B | SHEET D3

AT&T | SD-5D401-01

UNIT SYMBOL TABLE OF CONTENTS				
FUNCTION		DESCRIPTION (LOWER LEFT PIN ON CONNECTOR)	SIZE	ELEMENTS
A-GROUP FIDBS	SIDE 0	(04-036-303) DLTU DFI A0	2X4	98
		(04-036-307) DLTU DFI A1	2X4	97
		(04-036-313) DLTU DFI A2	2X4	96
		(04-036-317) DLTU DFI A3	2X4	95
		(04-036-321) DLTU DFI A4	2X4	94
		(04-036-334) DLTU DFI A5	2X4	25
		(04-036-338) DLTU DFI A6	2X4	24
		(04-036-345) DLTU DFI A7	2X4	23
		(04-036-349) DLTU DFI A8	2X4	22
		(04-036-353) DLTU DFI A9	2X4	21
	SIDE 1	(04-126-303) DLTU DFI A0	2X4	62
		(04-126-307) DLTU DFI A1	2X4	61
		(04-126-313) DLTU DFI A2	2X4	60
		(04-126-317) DLTU DFI A3	2X4	59
		(04-126-321) DLTU DFI A4	2X4	58
		(04-126-334) DLTU DFI A5	2X4	12
		(04-126-338) DLTU DFI A6	2X4	11
		(04-126-345) DLTU DFI A7	2X4	10
		(04-126-349) DLTU DFI A8	2X4	09
		(04-126-353) DLTU DFI A9	2X4	08
B-GROUP FIDBS	SIDE 0	(04-086-303) DLTU DFI B0	2X4	87
		(04-086-307) DLTU DFI B1	2X4	86
		(04-086-313) DLTU DFI B2	2X4	85
		(04-086-317) DLTU DFI B3	2X4	84
		(04-086-321) DLTU DFI B4	2X4	83
		(04-086-334) DLTU DFI B5	2X4	18
		(04-086-338) DLTU DFI B6	2X4	17
		(04-086-345) DLTU DFI B7	2X4	16
		(04-086-349) DLTU DFI B8	2X4	15
		(04-086-353) DLTU DFI B9	2X4	14
	SIDE 1	(04-176-303) DLTU DFI B0	2X4	31
		(04-176-307) DLTU DFI B1	2X4	30
		(04-176-313) DLTU DFI B2	2X4	29
		(04-176-317) DLTU DFI B3	2X4	28
		(04-176-321) DLTU DFI B4	2X4	27
		(04-176-334) DLTU DFI B5	2X4	05
		(04-176-338) DLTU DFI B6	2X4	04
		(04-176-345) DLTU DFI B7	2X4	03
		(04-176-349) DLTU DFI B8	2X4	02
		(04-176-353) DLTU DFI B9	2X4	01

UNIT SYMBOL TABLE OF CONTENTS				
FUNCTION		DESCRIPTION (LOWER LEFT PIN ON CONNECTOR)	SIZE	ELEMENTS
A-GROUP DFI CLOCK STATUS	SIDE 0	(04-062-003) DLTU DFI A0	2X3	91
		(04-064-003) DLTU DFI A1	2X3	90
		(04-062-006) DLTU DFI A2	2X3	89
		(04-064-006) DLTU DFI A3	2X3	88
		(04-062-009) DLTU DFI A4	2X3	87
		(04-064-009) DLTU DFI A5	2X3	86
		(04-062-016) DLTU DFI A6	2X3	85
		(04-064-016) DLTU DFI A7	2X3	84
		(04-062-019) DLTU DFI A8	2X3	83
		(04-064-019) DLTU DFI A9	2X3	82
	SIDE 1	(04-152-003) DLTU DFI A0	2X3	55
		(04-154-003) DLTU DFI A1	2X3	54
		(04-152-006) DLTU DFI A2	2X3	53
		(04-154-006) DLTU DFI A3	2X3	52
		(04-152-009) DLTU DFI A4	2X3	51
		(04-154-009) DLTU DFI A5	2X3	50
		(04-152-016) DLTU DFI A6	2X3	49
		(04-154-016) DLTU DFI A7	2X3	48
		(04-152-019) DLTU DFI A8	2X3	47
		(04-154-019) DLTU DFI A9	2X3	46
B-GROUP DFI CLOCK STATUS	SIDE 0	(04-072-003) DLTU DFI B0	2X3	79
		(04-074-003) DLTU DFI B1	2X3	78
		(04-072-006) DLTU DFI B2	2X3	77
		(04-074-006) DLTU DFI B3	2X3	76
		(04-072-009) DLTU DFI B4	2X3	75
		(04-074-009) DLTU DFI B5	2X3	74
		(04-072-016) DLTU DFI B6	2X3	73
		(04-074-016) DLTU DFI B7	2X3	72
		(04-072-019) DLTU DFI B8	2X3	71
		(04-074-019) DLTU DFI B9	2X3	70
	SIDE 1	(04-162-003) DLTU DFI B0	2X3	43
		(04-164-003) DLTU DFI B1	2X3	42
		(04-162-006) DLTU DFI B2	2X3	41
		(04-164-006) DLTU DFI B3	2X3	40
		(04-162-009) DLTU DFI B4	2X3	39
		(04-164-009) DLTU DFI B5	2X3	38
		(04-162-016) DLTU DFI B6	2X3	37
		(04-164-016) DLTU DFI B7	2X3	36
		(04-162-019) DLTU DFI B8	2X3	35
		(04-164-019) DLTU DFI B9	2X3	34
PICBS	SIDE 0	(04-066-351) TSIU2, MCTU OR MCTU2 1/CI	2X8	19
		(04-066-151) TSIU2, MCTU OR MCTU2 0/CI	2X8	20
	SIDE 1	(04-156-351) TSIU2, MCTU OR MCTU2 1/CI	2X8	06
		(04-156-151) TSIU2, MCTU OR MCTU2 0/CI	2X8	07

UNIT SYMBOL TABLE OF CONTENTS				
FUNCTION		DESCRIPTION (LOWER LEFT PIN ON CONNECTOR)	SIZE	ELEMENTS
NCT LINKS A AND B	SIDE 0	(04-046-100) TSIU2, MCTU OR MCTU2 0/RLI A	2X24	AD
		(04-076-100) TSIU2, MCTU OR MCTU2 0/RLI B	2X24	AC
		(04-046-113) TSIU2, MCTU OR MCTU2 0/RLI A	2X12	92
		(04-046-100) TSIU2, MCTU OR MCTU2 0/RLI A	2X12	89
		(04-076-113) TSIU2, MCTU OR MCTU2 0/RLI B	2X12	88
		(04-076-100) TSIU2, MCTU OR MCTU2 0/RLI B	2X12	69
	SIDE 1	(04-136-113) TSIU2, MCTU OR MCTU2 1/RLI A	2X12	58
		(04-136-100) TSIU2, MCTU OR MCTU2 1/RLI A	2X12	57
		(04-166-113) TSIU2, MCTU OR MCTU2 1/RLI B	2X12	32
		(04-166-100) TSIU2, MCTU OR MCTU2 1/RLI B	2X12	33
		(04-136-100) TSIU2, MCTU OR MCTU2 1/RLI A	2X24	A8
		(04-166-100) TSIU2, MCTU OR MCTU2 1/RLI B	2X24	AA
REMOTE CLOCK UNIT	SIDE 0	(04-066-313) RCU (Y)	2X3	80
		(04-066-113) RCU (Y)	2X3	81
	SIDE 1	(04-156-313) RCU (Y)	2X3	44
		(04-156-113) RCU (Y)	2X3	45
DLI CONTROL & DISPLAY	SIDE 0	(04-008-134) TSIU2 DLI 0	2X12	26
		(04-008-132) MCTU, MCTU2 DLI 0		
	SIDE 1	(04-008-134) TSIU2 DLI 1	2X12	13
		(04-008-132) MCTU, MCTU2 DLI 1		
POWER	SIDE 0	(01-021-080) RETURN LUG	LUG	99
		(01-031-080) POWER LUG	LUG	99
	SIDE 1	(01-111-080) RETURN LUG	LUG	99
		(01-121-080) POWER LUG	LUG	99

FACILITIES INTERFACE UNIT
MODEL 2

DWG SIZE: C2
ISSUE: 8B

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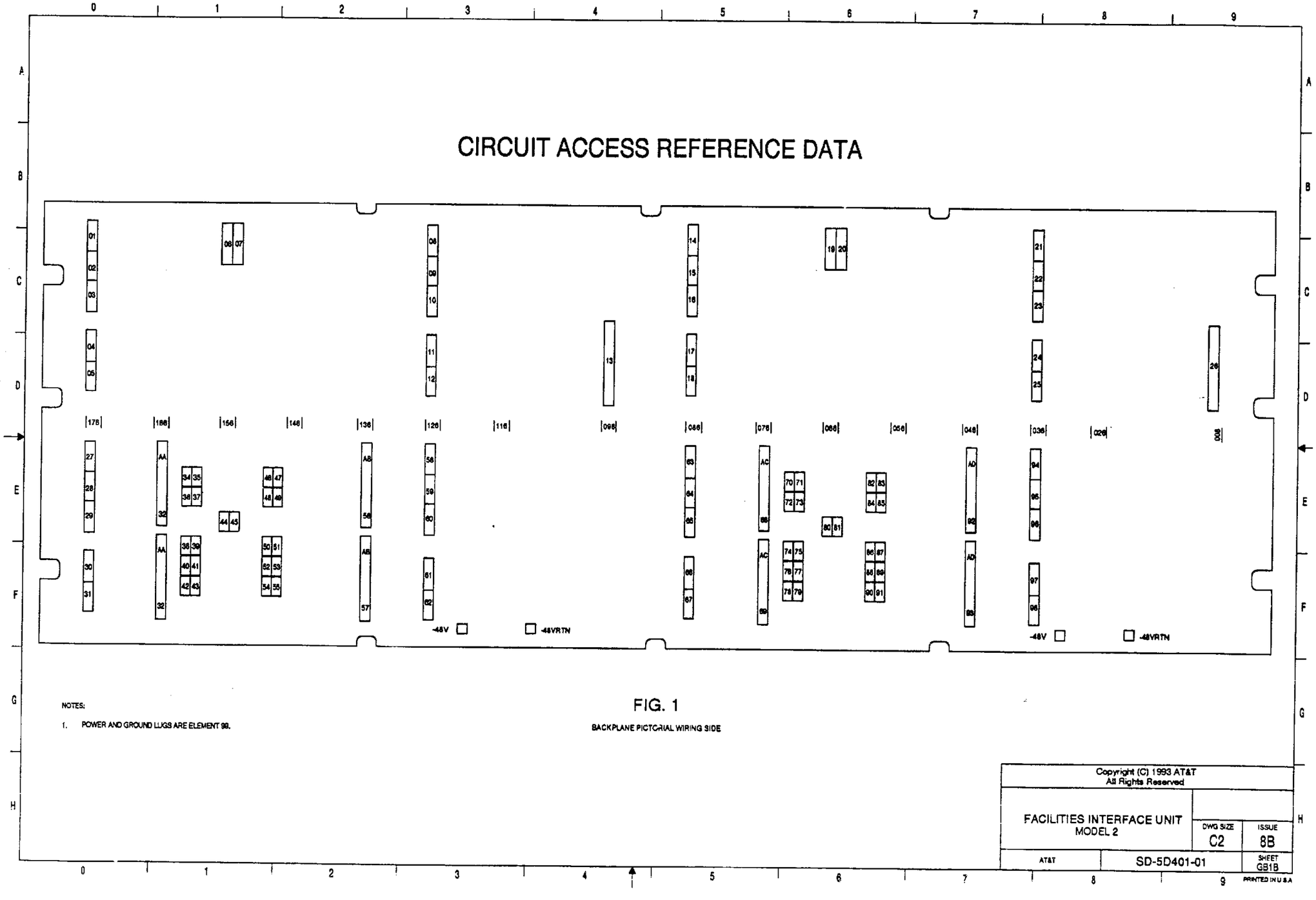
CIRCUIT ACCESS REFERENCE DATA



NOTES:

1. POWER AND GROUND LUGS ARE ELEMENT 99.

FIG. 1

BACKPLANE PICTORIAL WIRING SIDE

FACILITIES INTERFACE UNIT MODEL 2		DWG SIZE C2	ISSUE 8B
AT&T	SD-5D401-01		SHEET GB1B

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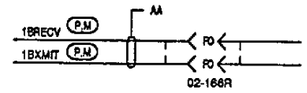
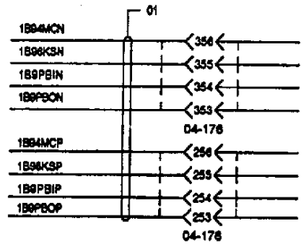
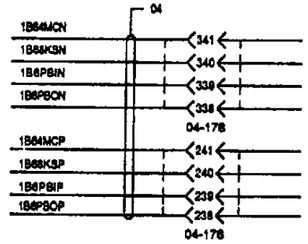
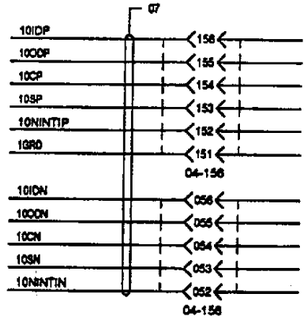
PART OF CAD 1

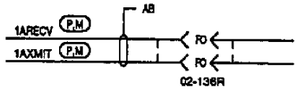
UNIT SYMBOL

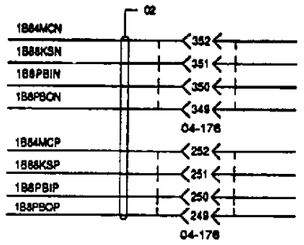


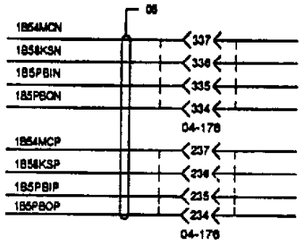


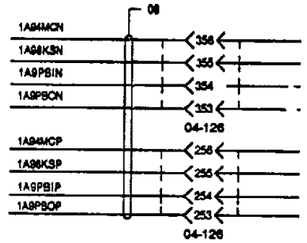


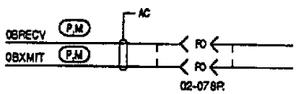


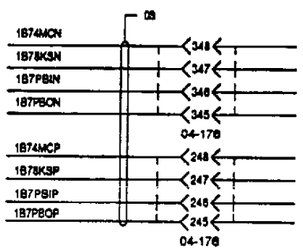


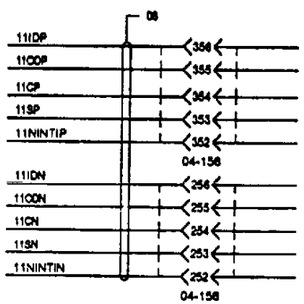


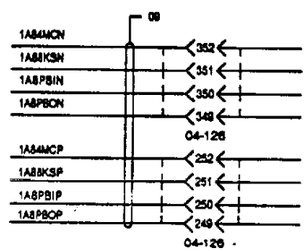


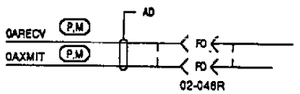












FACILITIES INTERFACE UNIT
MODEL 2

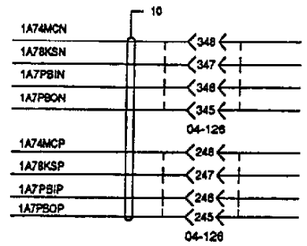
DWG SIZE	ISSUE
C2	8B

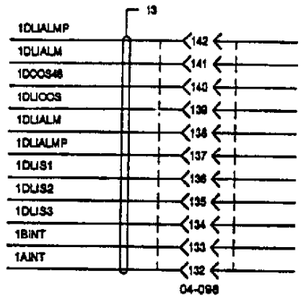
AT&T	SD-5D401-01	SHEET
		GB2

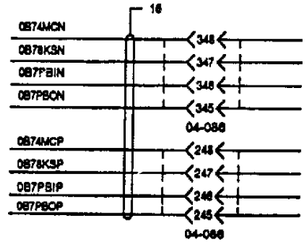
PRINTED IN U.S.A

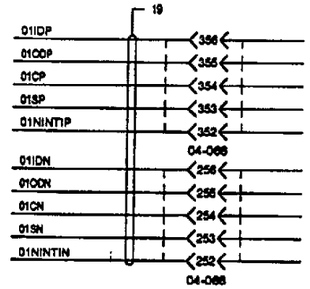
PART OF CAD 1

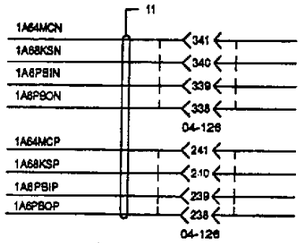
UNIT SYMBOL

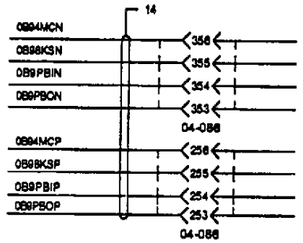


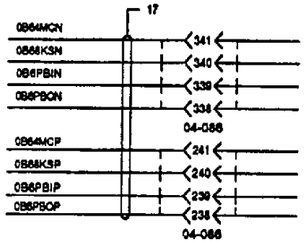


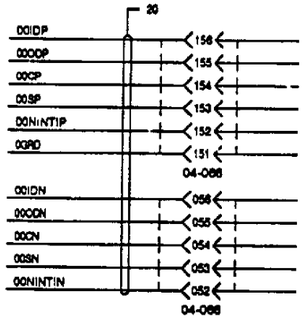


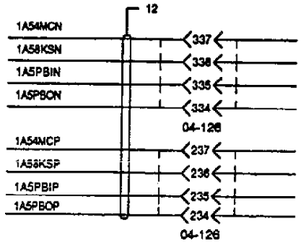


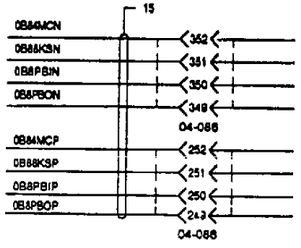


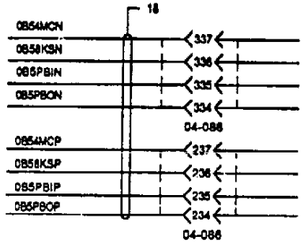


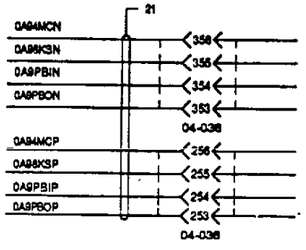












FACILITIES INTERFACE UNIT
MODEL 2

DWG SIZE	ISSUE
C2	8B

AT&T | SD-5D401-01 | SHEET GB3

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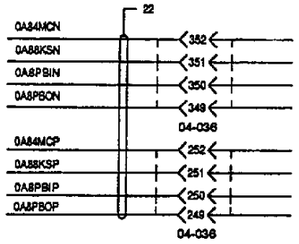
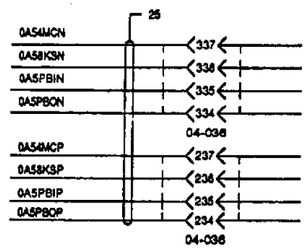
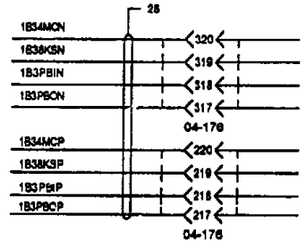
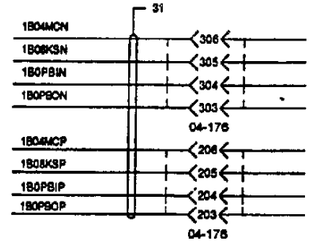
PART OF CAD 1

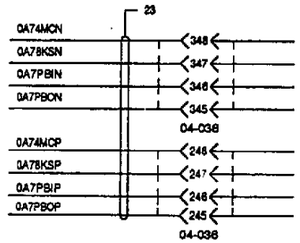
UNIT SYMBOL

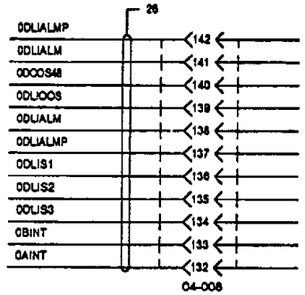


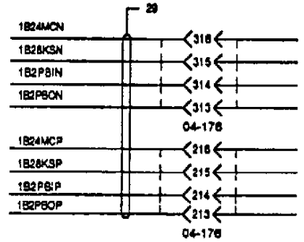


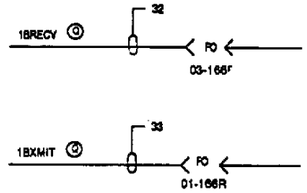


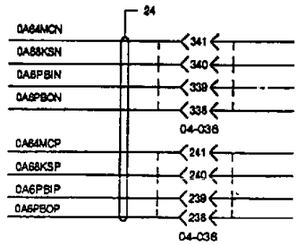


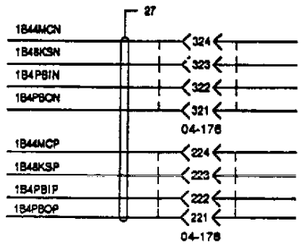


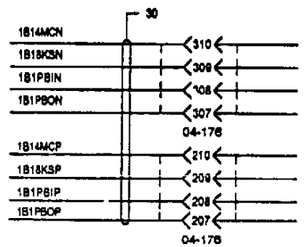


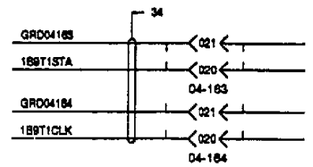












FACILITIES INTERFACE UNIT
MODEL 2

DWG SIZE	ISSUE
C2	8B

AT&T	SD-5D401-01	SHEET
		GB4

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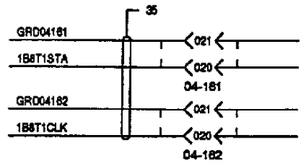
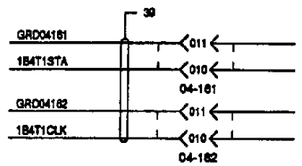
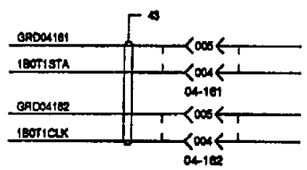
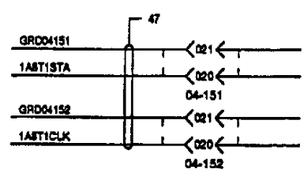
PART OF CAD 1

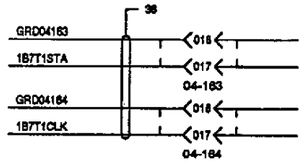
UNIT SYMBOL

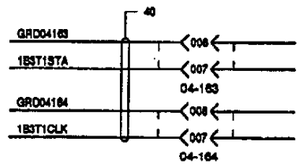


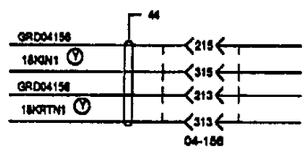


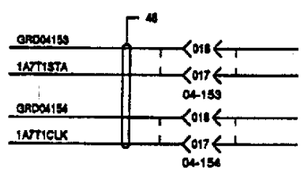


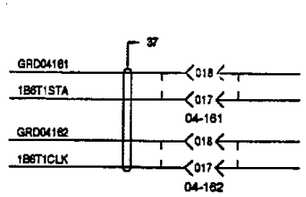


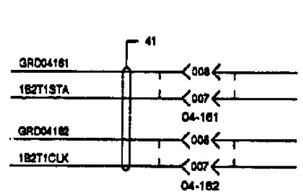


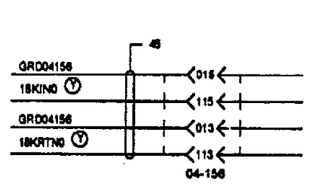


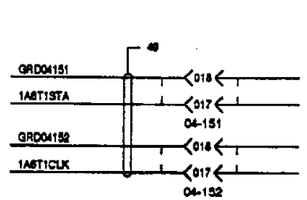


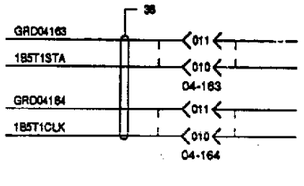


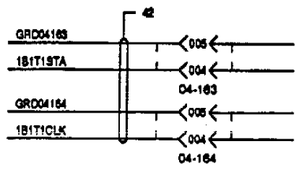


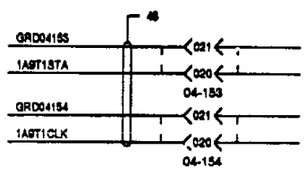


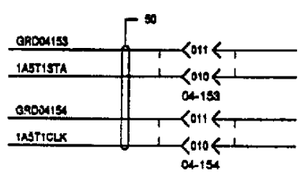












FACILITIES INTERFACE UNIT
MODEL 2

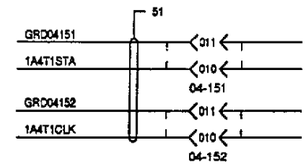
DWG SIZE	ISSUE
C2	8B

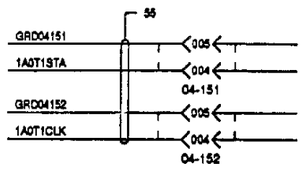
AT&T	SD-5D401-01	SHEET
		GB5

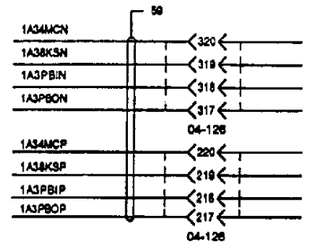
PRINTED IN U.S.A.

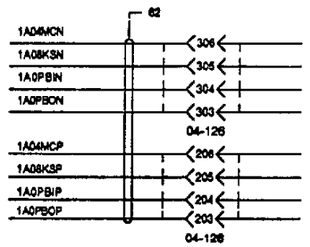
PART OF CAD 1

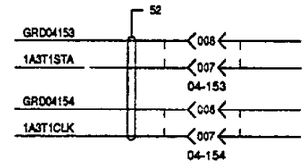
UNIT SYMBOL

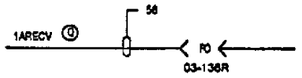


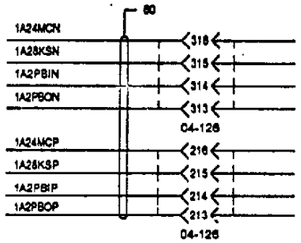


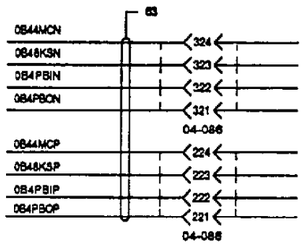


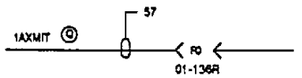


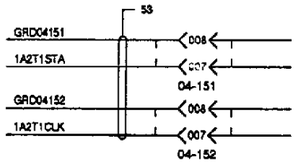


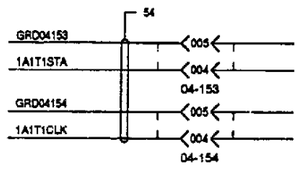


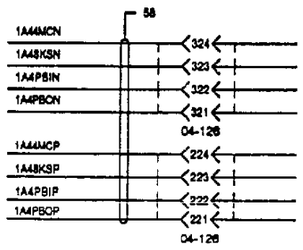


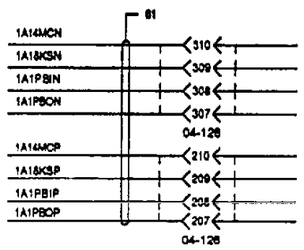


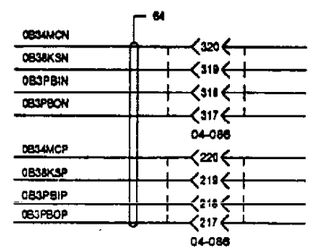












FACILITIES INTERFACE UNIT
MODEL 2

DWG SIZE	ISSUE
C2	8B

AT&T	SD-5D401-01	SHEET
		G86

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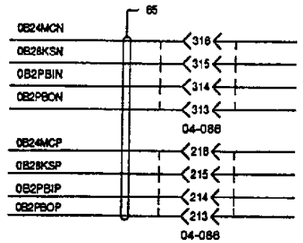
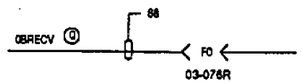
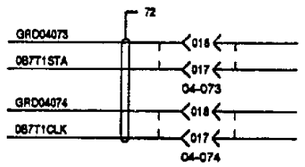
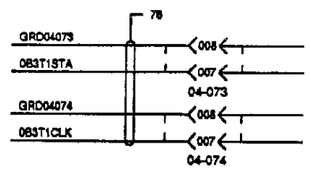
PART OF CAD 1

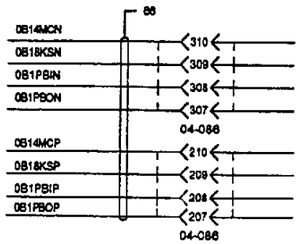
UNIT SYMBOL

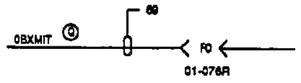


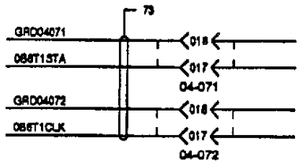


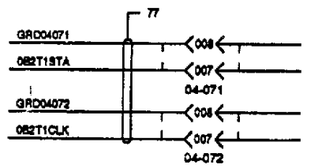


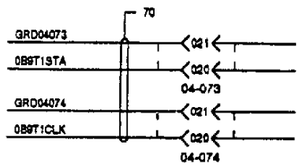


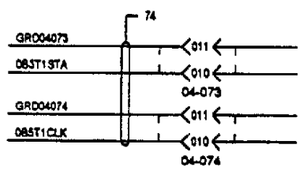


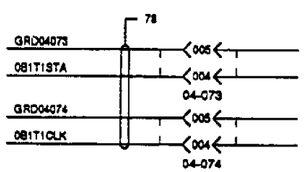


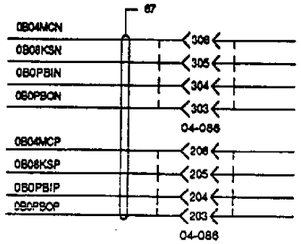


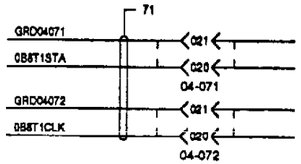


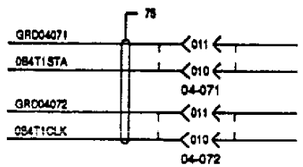


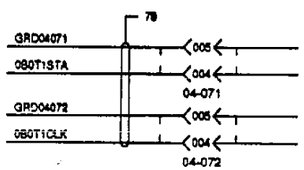












FACILITIES INTERFACE UNIT
MODEL 2

DWG SIZE	ISSUE
C2	8B

AT&T	SD-5D401-01	SHEET
		GB7

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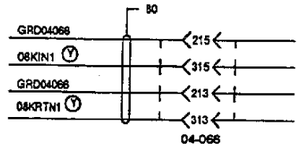
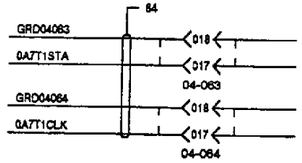
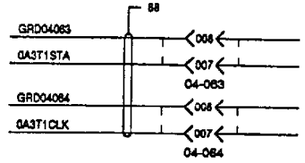
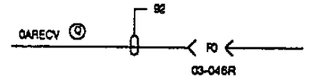
PART OF CAD 1

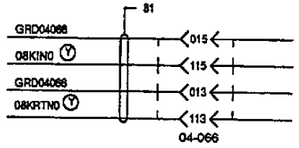
UNIT SYMBOL

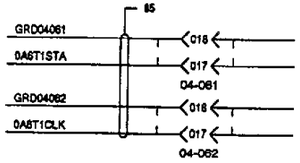


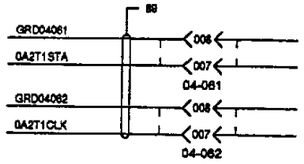


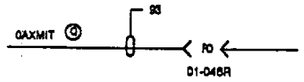


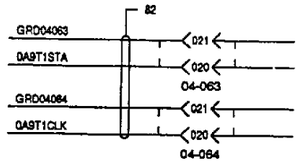


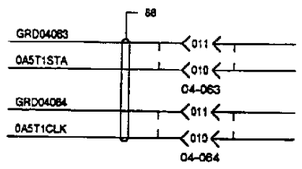


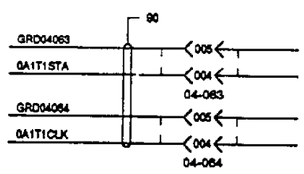


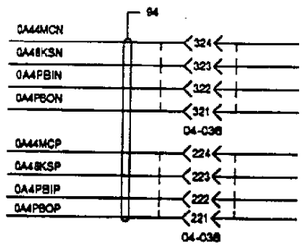


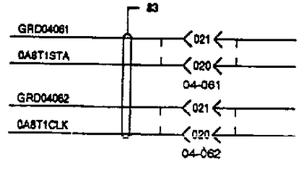


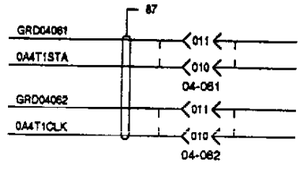


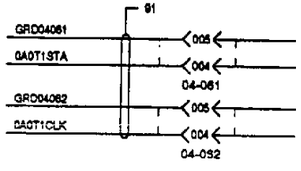












FACILITIES INTERFACE UNIT
MODEL 2

DWG SIZE	ISSUE
C2	8B

AT&T	SD-5D401-01	SHEET
		GB8

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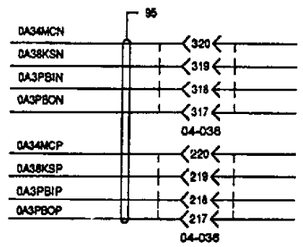
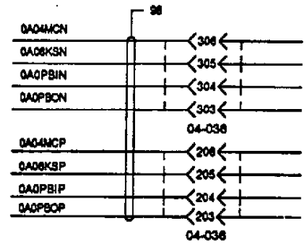
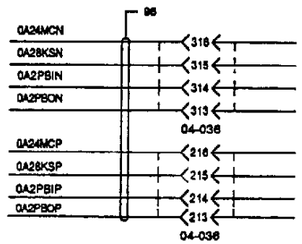
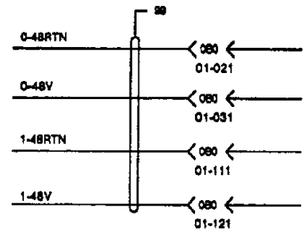
PART OF CAD 1

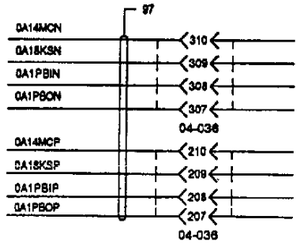
UNIT SYMBOL











FACILITIES INTERFACE UNIT
MODEL 2

DWG SIZE	ISSUE
C2	8B

AT&T	SD-5D401-01	SHEET
		GB9