CONTENTS	SHEET NO.	SHEET ISSUE NO.
SHEET INDEX OPTION INDEX SUPPORTING INFORMATION	A1	3
FS1 - FAN UNIT AND ALARM CIRCUIT	B1	3
APP FIG. 1	C1	3
CIRCUIT NOTES	D1	3
INFORMATION NOTES	D2	3
CAD 1	G1	3

OPTION INDEX

APP OR WRG	RATED ON ISSUE	REF NOTES	LOCATION
Z	STD 2A		APP FIG. 2, 2G3, CAD 2
Y	A&M 3M		APP FIG. 1
X	STD 3M	308	APP FIG. 1

DWG ISS	CD ISS	DWG ISS	CD ISS	DWG ISS	CD ISS
1	1	2A	2A		

DWG ISS	CD ISS	DATE ISSD	DRN	APP
3B	2A APPX 1B	10-31-91		

SUPPORTING INFORMATION

CATEGORY	NO.
EQUIPMENT DRAWING	J3D003AF
CPS-*	

* SCHEMATICS OF ALL FE-CODE CIRCUIT PACKS USED IN THIS CIRCUIT ARE SHOWN ON DRAWINGS NUMBERED WITH A CPS PREFIX FOLLOWED BY THE CODE OF THE PACK AS CPS-TN245.

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

FAN UNIT AND ALARM CIRCUIT

DWG SIZE	ISSUE
C2	3B

AT&T	SD-5D019-01	SHEET A1 6 SHEETS

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FS 1

FAN UNIT AND ALARM CIRCUIT

NOTES:

1. UNLESS OTHERWISE SPECIFIED, ALL WIRING IS 26 GA.
2. SEVERAL FAN ALARM CIRCUIT BOARD TERMINALS ARE REPEATED IN ORDER TO SHOW DIFFERENT WIRING APPLICATIONS. REGARDLESS OF WHICH APPLICATION IS USED, THERE WILL BE NO MORE THAN 2 WIRES ON ANY TERMINAL.

TB3
9
R1
200
8
S3 DS3 S2 DS2 S1 DS1
ALMRTN 13
GND 23
FANPWR 18
ALED3 3
ALED2 2
ALED1 20
+5VS3 +5VG CP3 TB3
+5VS2 +5VG CP2 TB2
+5VS1 +5VG CP1 TB1
5 6 7
ALM3 5
ALM2 8
ALM1 7
FAN B3
FAN B2
FAN B1
R BK BL
FAN ALARM CIRCUIT BOARD ED-5D195-01 (SEE NOTE 2)
NC FLED3 10
P3 P2 P1
-48F36 -48F26 -48F16
J3 J2 J1
P
TB3-4 TB2-4 TB1-4
-48VB 21
-48R 22
-48VA 24
-48F3 -48F2 -48F1
TB3-2 TB2-2 TB1-2
CR6 CR5 CD4 CD3 CR2 CR1
TB3-1 TB3-3 TB2-1 TB2-3 TB1-1 TB1-3
-48F3B -48F3A -48F2B -48F2A -48F1B -48F1A
18AFB
F3B F3A F2B F2A F1B F1A
70A
16GA
-48V10 ALM1-2 ALM26
TO CONNECTING CIRCUIT
-48V00 RTN00
TO CONNECTING CIRCUIT
RLED1 RLED2 FRLED0
TO CABINET LED'S (SEE NOTE 304)

14 P 0RES1
27 0RTN
19 0SCANO
25 0RTN P
TO MCU OR IMPU BAY 0 (IMC CABINET ONLY)

15 P 1RES1
27 1RTN
1 1SCANO
25 1RTN P
TO MCU OR IMPU BAY 1 (IMC CABINET ONLY)

6 P 3BRES1
27 RTN
17 3BSCNO
25 RTN P
TO 3B IOP SCANNER CIRCUIT IN TMS AND MSG CABINETS

27 RTN
9 FLED4
SEE NOTE 305

6 3BRES1
26 LTPRST
SEE NOTE 306

25 RTN
17 3BSCNO
SEE NOTE 307

11 1 R1 1K 2 1 CR6 2 10 2 CR8 1 FALMC
14 20 FALMFN
TO TMS CABINET
2 CR7 1
17 1 R2 1K 2 7
TS(A) Ⓩ

FAN UNIT AND ALARM		DWG SIZE C2	ISSUE 3B
AT&T	SD-5D019-01		SHEET B1

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APP FIG. 1

CIRCUIT PACK

OPT	DESIG	LOC	CODE
	FAB	1D6	ED-5D195-01

DIODE

OPT	DESIG	LOC	CODE
	CR1	1E4	813B
	CR2	1E4	813B
	CR3	1E3	813B
	CR4	1E2	813B
	CR5	1E2	813B
	CR6	1E1	813B

FAN

OPT	DESIG	LOC	CODE
Y	B1	1D4	KS-22501,L3
Y	B2	1D3	KS-22501,L3
Y	B3	1D1	KS-22501,L3
X	B1	1D4	KS-23912,L1A
X	B2	1D3	KS-23912,L1A
X	B3	1D1	KS-23912,L1A

FUSE BLOCK

OPT	DESIG	LOC	CODE
	F1A	1F4	18A
	F1B	1F4	18A
	F2A	1F3	18A
	F2B	1F2	18A
	F3A	1F2	18A
	F3B	1F1	18A

LIGHT EMITTING DIODE

OPT	DESIG	LOC	CODE
	DS1	1B4	549D
	DS2	1B3	549D
	DS3	1B1	549D

RESISTOR

OPT	DESIG	LOC	CODE
	R1	1A2	KS-20289,LC6,200

SWITCH

OPT	DESIG	LOC	CODE
	S1	1B4	SA-41SDW1-2-2
	S2	1B2	SA-41SDW1-2-2
	S3	1B1	SA-41SDW1-2-2

TERMINAL BLOCK

OPT	DESIG	LOC	CODE
	TB1	1C4,1F4, 1E4,1F4, 1D4	JN061581
	TB2	1C2,1F2, 1E3,1F3, 1D3	JN061581
	TB3	1C1,1F1, 1E1,1F2, 1D2	JN061581

APP FIG. 2

COMPONENT ASSEMBLY

TERMINAL STRIP

OPT	DESIG	LOC	CODE	
Z	TS(A)		285A	E/W

DIODE

OPT	DESIG	LOC	CODE
	CR6	1F7	458C
	CR7	1G7	458C
	CR8	1F8	458C

RESISTOR

OPT	DESIG	LOC	CODE
	R1	1F7	KS-16266,L3A,1K
	R2	1G7	KS-16266,L3A,1K

FAN UNIT AND ALARM

DWG SIZE: C2

ISSUE: 3B

AT&T

SD-5D019-01

SHEET: C1

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CIRCUIT NOTES:

101.

DESIG	FUSE AMP	POTENTIAL	ONE PER

BATTERY SYMBOL

VOLTAGE RANGE

FAN UNIT AND ALARM

DWG SIZE	ISSUE
C2	3B

AT&T	SD-5D019-01	SHEET
		D1

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	APP OR WRG	QUANTITY
ASSEMBLY WIRING & EQUIPMENT FOR ONE FAN UNIT		1		1 PER CKT
ASSEMBLY WIRING & EQUIPMENT REQUIRED IN ADDITION TO APP FIG. 1 WHEN FAN UNIT IS IN A TMS FRAME.		2	Z	1 PER CKT
FANS	STANDARD	1	Y	1 PER CKT
	THEMISTOR		X	

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	A&M	MD
2A		NONE		Z		
3M			308	X	Y	

304. LEADS GO TO TOP OF CABINET TO FAN ALARM LEDS.

305. IN ALL LTP CABINETS, CONNECT TERMINAL 9 TO TERMINAL 27. IN ALL OTHER CABINETS TERMINAL 9 IS A NO CONNECT.

306. IN IM MODULE ONLY, CONNECT TERMINAL 26 OF THE IMC CABINET TO TERMINAL 6 OF ALL THE LTP CABINETS.

307. IN THE IM MODULE, CONNECT TERMINAL 17 AND 25 OF THE IMC CABINET TO TERMINAL 17 AND 25 OF THE LTP CABINETS RESPECTIVELY.

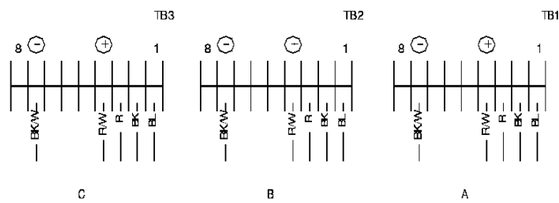
308. FOR RETROFITS IN THE FIELD ALL J5D003BE-1 AND BE-2 FAN WIRES SHOULD HAVE 5 FASTON CONNECTORS. THE BE-1 FAN UNITS WITH SCREW TYPE TERMINAL BLOCKS CAN BE CONVERTED TO FASTON BY USING LUG KT36 (ONE SIDE FASTON TAB) FROM KULKA. THE FAN MAY HAVE TO BE ROTATED SO THE WIRES COME OUT THE TOP TO REACH THE TERMINAL BLOCK.

WIRE LENGTH = 9"

A KS2250 IL3A WIRING EQUIVALENT FAN WITH A THERMISTOR MOUNTED ON THE FAN WILL BE USED ON ALL BE-1 AND BE-2 FAN UNITS WHICH HAS 5 INDIVIDUAL WIRES. THE NEW KS NUMBER AND THE MANUFACTURER CODE IS AS FOLLOWS:

KS23912L1 A=ROTRON PQ48S3HBDLX/031122
CC#406667808 PAPST 6248/3T-030

BE-1 FASTONS BE-2 MOVE FAN-FASTONS



309. CURRENT DRAIN

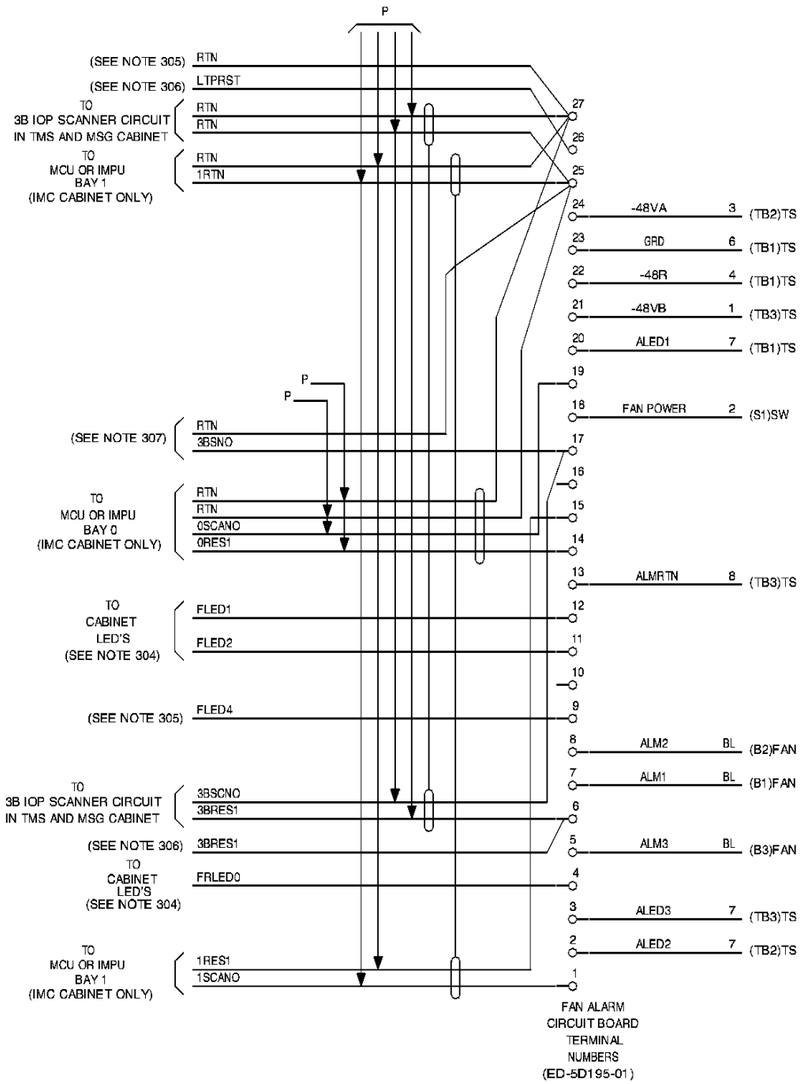
OPTION Y 1.3 AMPS
OPTION X 1.0 AMPS

FAN UNIT AND ALARM

DWG SIZE	ISSUE
C2	3B

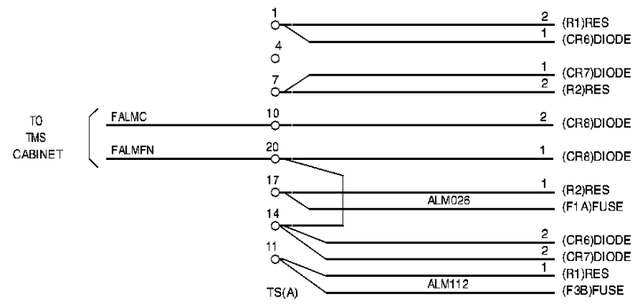
AT&T	SD-5D019-01	SHEET
		D2

CAD 1



CAD 2

(FOR APP FIG. 2)



FAN UNIT AND ALARM

DWG SIZE	ISSUE
C2	3B

AT&T	SD-5D019-01	SHEET
		G1