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1	STD 2	304	APP FIG. 1
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X	A&M 3		APP FIG. 1 & 2
W	STD 3	306	APP FIG. 1 & 2

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

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SUPPORTING INFORMATION		SHEET INDEX NOTES	Copyright (C) 1991 AT&T All Rights Reserved	
CATEGORY	NO.		BT13	
EQUIPMENT DRAWING	J5D003BE-( )	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.	5ESS® SWITCHING EQUIPMENT 3 FAN UNIT AND ALARM CIRCUIT FOR 6 FOOT CABINET	
			DWG SIZE <b>C2</b>	ISSUE <b>3B</b>
			AT&T	SD-5D019-02
			SHEET A1 13 SHEETS	

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# DESIGNATION MNEMONICS INDEX

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LEAD DESIG	LOC	DEFINITION
-48B(1-3)A	1B4	NEGATIVE 48 VOLTS A SUPPLY
-48B(1-3)B	1B4	NEGATIVE 48 VOLTS B SUPPLY
-48R	1F6	NEGATIVE 48 VOLTS RETURN
-48RTN	2G6	NEGATIVE 48 VOLTS RETURN
-48(A-C)	2A3	NEGATIVE 48 VOLTS SUPPLY FOR FAN (A THROUGH C)
-48V(A,B)	1F7	NEGATIVE 48 VOLT A AND B SUPPLY
ALD(1-3)	1F7,2G6	ALARM LED (1 THROUGH 3)
ALMRN	1G7,2G6	ALARM LED RETURN
ALM(1-3)	1F2,4,5,2F1	FAN ALARM OUTPUT (1 THROUGH 3)
FANPWR	1G7,2F4	POWER SUPPLY TO FAN ALARM - SENDING CIRCUIT
FLED(1,2)	1G6,2F0	FRAME LED LEAD (1 AND 2)
FLED(3,4)	1G5,1G6,2F0,2H1	FRAME LED LEAD (3 AND 4) SPARES
FRLED0	1G6,2F0	FRAME LED RETURN LEAD
GRD	1G6,2F5	5 VOLT RETURN
LTPRST	1G6,2H1	RESET LEAD FOR SUCCEEDING CIRCUIT
RTN	1G2,1G5	RETURN LEADS FOR SCAN POINT AND REMOTE RESET
SWI	1C6	MANUAL ALARM RESET SWITCH
0RES1	1G3,2H3	REMOTE RESET INPUT FROM SIDE 0
0SCAN0	1G3,2H4	SCAN POINT CONTROL OUTPUT SIDE 0
1RES1	1G4,2H4	REMOTE RESET INPUT SIDE 1
1SCAN0	1G5,2H4	SCAN POINT CONTROL OUTPUT SIDE 1
3BRESR	2H0,2H2,2H3,2H4	REMOTE RESET RETURN
3BRES1	1G2,1G6,2H0,2,3	REMOTE RESET (SIDE 1)
3BSCNR	2H0-4	SCAN POINT CONTROL RETURN
3BSCNO	1G2,2H0-3	SCAN POINT CONTROL OUTPUT SIDE 0
48ALMA	2B3	ALARM BOARD -48 VOLTS POWER
48RALMA	2B5	ALARM BOARD -48 VOLTS RETURN
48RTN(A-C)	2B3	-48 VOLTS RETURN FOR FAN (A THROUGH C)
48RTNB(1-3)A	1B4	NEGATIVE 48 VOLTS RETURN A SUPPLY
48RTNB(1-3)B	1B4	NEGATIVE 48 VOLTS RETURN B SUPPLY

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3 FAN UNIT AND ALARM	DWG SIZE	ISSUE
	C2	3B
AT&T	SD-5D019-02	
	SHEET	A2

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APPARATUS INDEX

DESIG	LOCATION		
	FS	APP FIG	EQPT
PACKS, CIRCUIT			
04-011	1F4		1
04-011	2G3		2

DESIG	LOCATION		
	FS	APP FIG	EQPT
SWITCH			
SW1	1G8	1	04-008
SW1(D)	2G7	2	04-008

DESIG	LOCATION		
	FS	APP FIG	EQPT
PACKS, CIRCUIT			
CP1	1F4	1	04-011
CM1	2G3	2	04-011

DESIG	LOCATION		
	FS	APP FIG	EQPT
TERMINAL BLOCK			
TB1	1C5,1E5	1	04-020
TB1	2C4,2E4	2	08-040
TB2	1C3,1E3	1	08-056
TB2	2C3,2E3	2	08-112
TB3	1C2,1E2	1	08-112
TB3	2C1,2E1	2	08-170

DESIG	LOCATION		
	FS	APP FIG	EQPT
CONNECTOR			
C1	2E5	2	04-040
C2	2E3	2	04-112
C3	2E2	2	04-170

DESIG	LOCATION		
	FS	APP FIG	EQPT
FAN			
A	2D5	2	04-040
B	2D3	2	04-112
C	2D2	2	04-170
B1	1D6	1	04-020
B2	1D4	1	04-056
B3	1D2	1	04-112

DESIG	LOCATION		
	FS	APP FIG	EQPT
LEDS			
DS1	1F8	1	04-008
DS1(A)	2F6	2	
DS2	1F8	1	
DS2(B)	2G6	2	
DS3	1F8	1	
DS3(C)	2G6	2	04-008

LEAD INDEX

DESIG	LOCATION	
	FS	CAD
3B IOP SCANNER CIRCUIT		
3BRES1	1G2	1F2
3BSCNO	1G2	1F2
RTN	1G2	1B2

DESIG	LOCATION	
	FS	CAD
FUSE/FILTER PANEL		
-48B1 A	1B5	2B6
-48B1 B	1B6	2B6
-48B2 A	1B4	2B4
-48B2 B	1B4	2B4
-48B3 A	1B2	2B0
-48B3 B	1B2	2B0
-48RTNB1 A	1B6	2B6
-48RTNB1 B	1B6	2B6
-48RTNB2 A	1B4	2B4
-48RTNB2 B	1B4	2B4
-48RTNB3 A	1B3	2B0
-48RTNB3 B	1B3	2B0
48ALMA	2A3	4B3
48RALMA	2A5	4C7
48RTNA	2A5	4C7
48RTNB	2A3	4C4
48RTNC	2A2	4B0
-48A	2A5	4B7
-48B	2A3	4B4
-48C	2A2	4B0

DESIG	LOCATION	
	FS	CAD
SPARE		
FLED3	2F0	

DESIG	LOCATION	
	FS	CAD
CABINET LED'S		
FRLED0	1G6,2F0	1G2
FLED1	1G6, 1E2,	
	2F0	3B1
FLED2	1G6, 1E2,	
	2F0	3B1

DESIG	LOCATION	
	FS	CAD
SUCCEEDING FAN UNIT		
FLED4	2H1	3D1
LTPRST	2H1	3D1
3BSCNR	2H1	3D1
3BSCNO	2H1	3D1

DESIG	LOCATION	
	FS	CAD
COMMUNICATION MODULE SIDE 0		
3BRESR	2H2	3D3
3BRES1	2H2	3C3
3BSCNR	2H2	3D3
3BSCNO	2H2	3D3

DESIG	LOCATION	
	FS	CAD
PRECEDING FAN UNIT		
3BRESR	2H0	3B3
3BRES1	2H0	3B3
3BSCNR	2H0	3B3
3BSCNO	2H0	3B3

DESIG	LOCATION	
	FS	CAD
SWITCHING MODULE PROCESSOR UNIT SIDE 0 SWITCHING MODULE CABINET ONLY		
0RES1	1G3,	1E2,
	2H3	3D8
0SCAN0	1G4,	1E2,
	2H4	3D8
RTN	1G3	1D2

DESIG	LOCATION	
	FS	CAD
COMMUNICATION MODULE SIDE 1		
3BRESR	2H2	3D5
3BRES1	2H3	3C5
3BSCNR	2H3	3D5
3BSCNO	2H3	3D5

DESIG	LOCATION	
	FS	CAD
SWITCHING MODULE PROCESSOR UNIT SIDE 0		
0RES1	2H3	3D8
0SCAN0	2H4	3D8
3BRESR	2H3	3C8
3BSCNR	2H4	3C8

DESIG	LOCATION	
	FS	CAD
SWITCHING MODULE PROCESSOR UNIT SIDE 1 SWITCHING MODULE CABINET ONLY		
1RES1	1G4,	1G2,
	2H4	3F1
1SCAN0	1G5,	1G2,
	2H4	3F1
RTN	1G4	1C2

DESIG	LOCATION	
	FS	CAD
SWITCHING MODULE PROCESSOR UNIT SIDE 1		
1RES1	2H4	3F1
1SCAN0	2H4	3F1
3BRESR	2H4	3E1
3BSCNR	2H4	3E1

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3 FAN UNIT AND ALARM

DWG SIZE: C2 ISSUE: 3B

AT&T SD-5D019-02 SHEET A3

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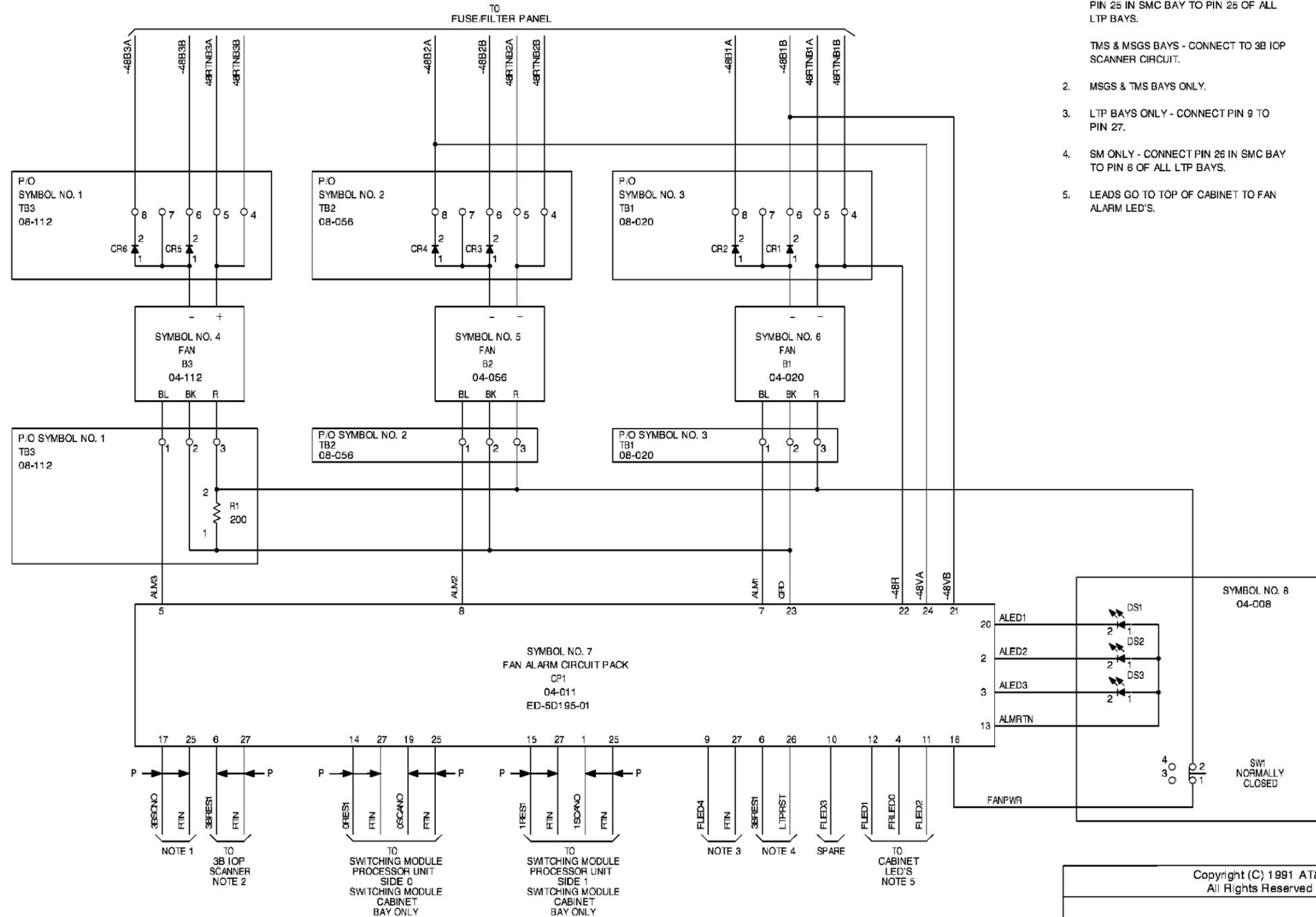
0 1 2 3 4 5 6 7 8 9

# FS 1 (A & M ONLY)

FAN UNIT AND ALARM CIRCUIT  
(SEE NOTE 304)

NOTES:

1. IN SM - CONNECT PIN 17 IN SMC BAY TO PIN 17 OF ALL LTP BAYS, CONNECT PIN 25 IN SMC BAY TO PIN 25 OF ALL LTP BAYS.
2. TMS & MSGS BAYS - CONNECT TO 3B IOP SCANNER CIRCUIT.
3. MSGS & TMS BAYS ONLY.
4. LTP BAYS ONLY - CONNECT PIN 9 TO PIN 27.
5. SM ONLY - CONNECT PIN 25 IN SMC BAY TO PIN 6 OF ALL LTP BAYS.
6. LEADS GO TO TOP OF CABINET TO FAN ALARM LED'S.



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**3 FAN UNIT AND ALARM**

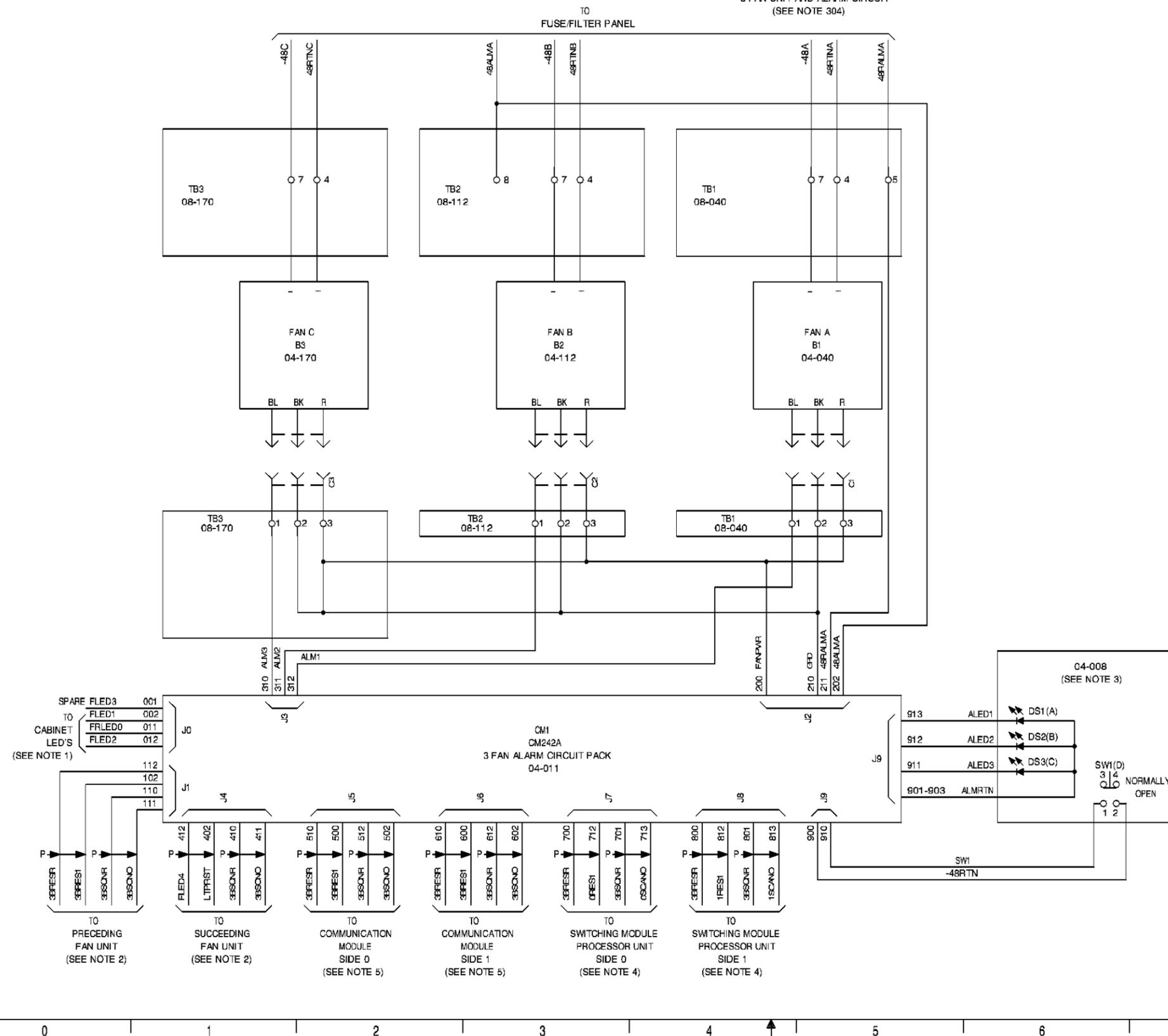
DWG SIZE	ISSUE
<b>C2</b>	<b>3B</b>
AT&T	SHEET B1

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# FS 2

## 3 FAN UNIT AND ALARM CIRCUIT (SEE NOTE 304)



### NOTES:

1. THESE LED'S ARE LOCATED ONE ON TOP FRONT AND ONE ON TOP REAR OF CABINET.
2. SEVERAL FAN UNITS MAY BE MONITORED AND CONTROLLED BY ONE SET OF SCAN POINTS AND SIGNAL DISTRIBUTOR POINTS. FOR FAN UNIT INTERCONNECTION INFORMATION, SEE THE APPLICATION SCHEMATIC SD-5D012-02. THE PRECEDING AND SUCCEEDING FAN UNITS MAY BE A 3 FAN UNIT (SD-5D019-02) OR A 6 FAN UNIT (SD-5D081-01).
3. LED RESET SWITCH (SW1) IS NOW SHOWN NORMALLY OPEN DUE TO A CIRCUIT CHANGE.
4. THESE CONNECTIONS ARE MADE WHEN THE FAN UNIT IS USED IN THE SWITCHING MODULE CONTROL (SMC) CABINET. THIS IS ALSO KNOWN AS THE MASTER FAN UNIT.
5. THESE CONNECTIONS ARE MADE IN THE CASE WHERE THE FAN UNIT IS USED IN THE COMMUNICATION MODULE, AND THEY ONLY APPLY TO THE MASTER FAN UNIT.

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② APP FIG 1 (A&M ONLY)

③ APP FIG 2

J5D003BE(-)

CIRCUIT PACK			
OPT	DESIG	LOC	CODE
	CP1	1F4	ED-5D195-01,G1

DIODE			
OPT	DESIG	LOC	CODE
	CR1	1C5	813B
	CR2	1C5	813B
	CR3	1C4	813B
	CR4	1C4	813B
	CR5	1C2	813B
	CR6	1C2	813B

FAN			
OPT	DESIG	LOC	CODE
X	B1	1D6	KS-22501-L3
X	B2	1D4	KS-22501-L3
X	B3	1D2	KS-22501-L3
W	B1	1D6	KS-23912-L1A
W	B2	1D4	KS-23912-L1A
W	B3	1D2	KS-23912-L1A

LIGHT EMITTING DIODES			
OPT	DESIG	LOC	CODE
	DS1	1F7	549D
	DS2	1F7	549D
	DS3	1F7	549D

RESISTOR			
OPT	DESIG	LOC	CODE
	R1	1E2	KS-20287,L6C,200

SWITCH			
OPT	DESIG	LOC	CODE
	SW1	1G8	SA-415DW1-2-2

TERMINAL BLOCK			
OPT	DESIG	LOC	CODE
	TB1	1C5,1E5	JN061581
	TB2	1C3,1E3	JN061581
	TB3	1C2,1E2	JN061581

J5D003BE-1

CIRCUIT MODULE			
OPT	DESIG	LOC	CODE
	CM1	2G3	CM242A

FAN			
OPT	DESIG	LOC	CODE
X	A	2D5	KS-22501-L3
X	B	2D3	KS-22501-L3
X	C	2D2	KS-22501-L3
W	A	2D5	KS-23912-L1A
W	B	2D3	KS-23912-L1A
W	C	2D2	KS-23912-L1A

LIGHT EMITTING DIODES			
OPT	DESIG	LOC	CODE
	DS1(A)	2F6	549D
	DS2(B)	2F6	549D
	DS3(C)	2G6	549D

SWITCH			
OPT	DESIG	LOC	CODE
	SW1(D)	2G6	SA-415DW1-2-2

TERMINAL BLOCK			
OPT	DESIG	LOC	CODE
	TB1	2C4,2E4	JN061581
	TB2	2C2,2E2	JN061581
	TB3	2C1,2E1	JN061581

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3 FAN UNIT AND ALARM	DWG SIZE	ISSUE
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CIRCUIT NOTES:

101.

DESIG	FUSE AMP	POTENTIAL	ONE PER
<u>BATTERY SYMBOL</u>		<u>VOLTAGE RANGE</u>	

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3 FAN UNIT AND ALARM

DWG SIZE	ISSUE
<b>C2</b>	<b>3B</b>

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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.

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3 FAN UNIT AND ALARM	DWG SIZE	ISSUE
	C2	3B
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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.

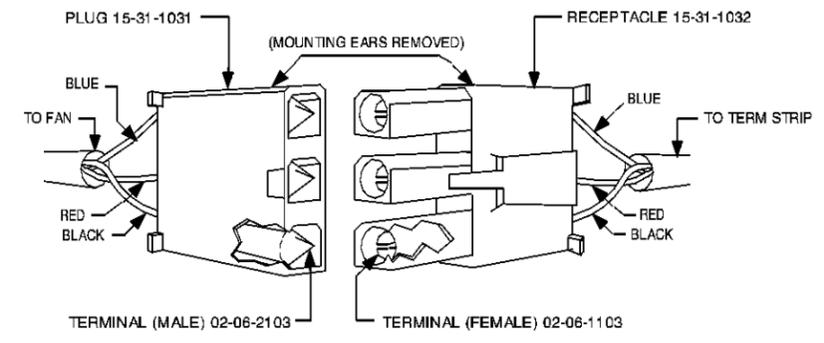
302.	FEATURE OR OPTION	PROVIDE		
		APP FIG	APP OR WRD	QUANTITY
BASIC WIRING	WIRE WRAPPED ED-5D195-30 (SEE NOTE 304)	1	Z	1 PER CKT
NEW CONNECTORIZED FAN ALARM CIRCUIT	CM242A (SEE NOTE 304)	2	Y	1 PER CKT
FANS	STANDARD	1	X	1 PER CKT
	THERMISTOR	& 2	W	

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
2B			304	Y	Z	
3M			306	W	X	

INFORMATION NOTES(CONT):

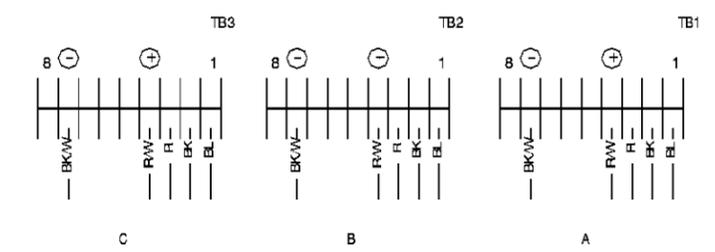
304. CM242A, OPTION Y, REPLACES ED-5D195-30, OPTION Z, IN ALL NEW 3 FAN ALARM UNITS. THE NEW FAN ALARM CIRCUIT (CM242A) IS THE CONNECTORIZED VERSION OF THE WIRE WRAPPED CIRCUIT MODULE (ED-5D195-30). THE FUNCTION OF THE CIRCUIT WILL REMAIN THE SAME.

305. MOLEX CONNECTORS AND TERMINALS.



306. 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:  
KS23912L1A-HOTRON PQ48S3HBDLX/031122  
CC#406667806 PAPST 6248/3T-030  
BE-1 FASTONS BE-2 MOVE FAN-FASTONS



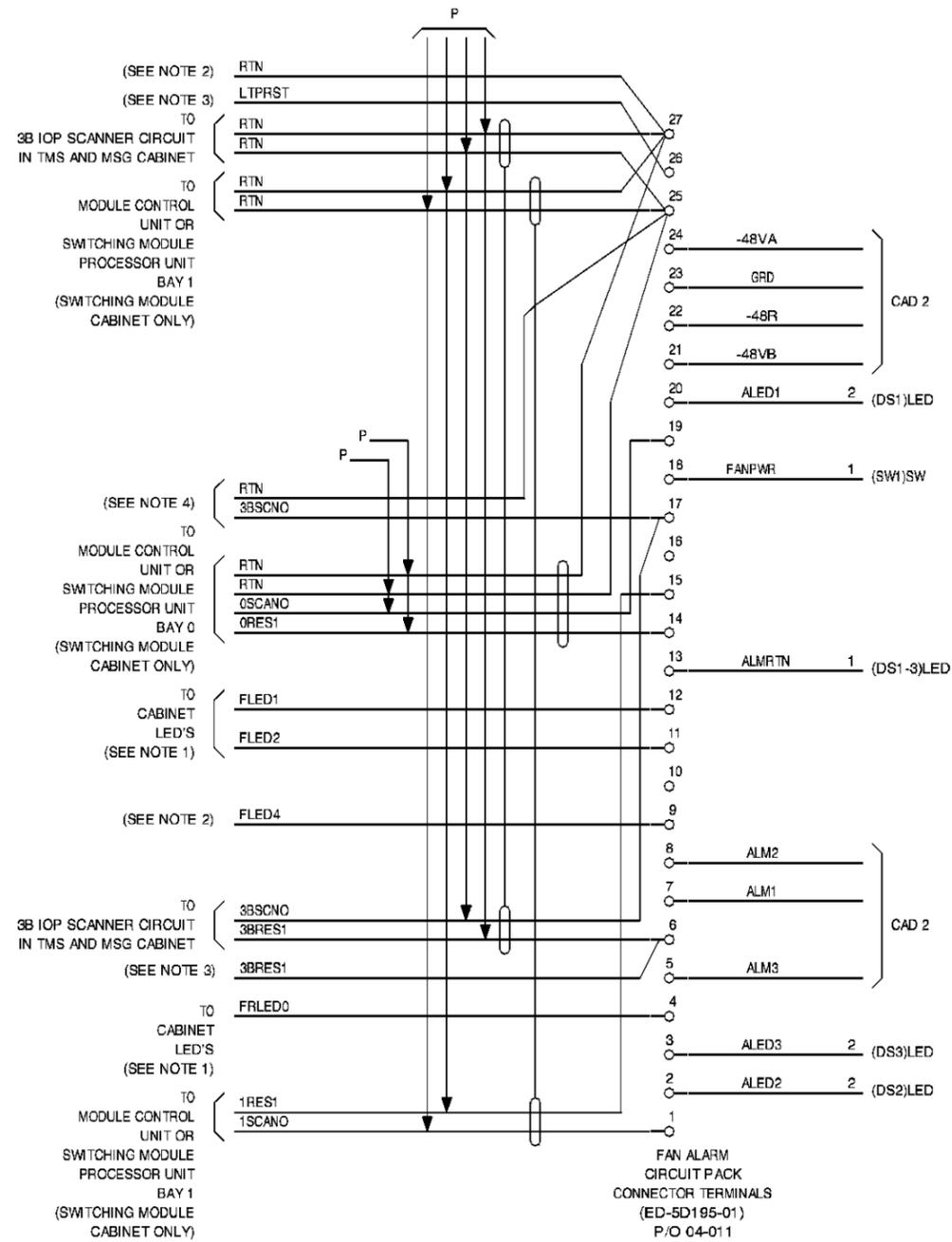
307. CURRENT DRAIN

OPTION Y 1.3 AMPS  
OPTION X 1.0 AMPS

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3 FAN UNIT AND ALARM		DWG SIZE <b>C2</b>
		ISSUE <b>3B</b>
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# ② CAD 1 (A&M ONLY)

FAN ALARM CIRCUIT CONNECTIONS



**NOTES:**

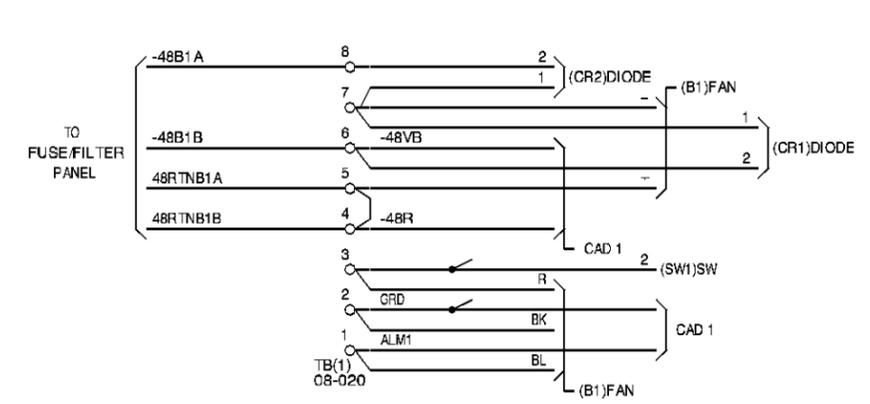
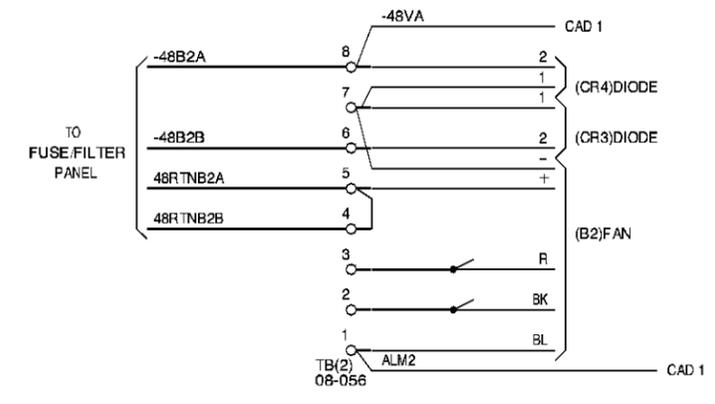
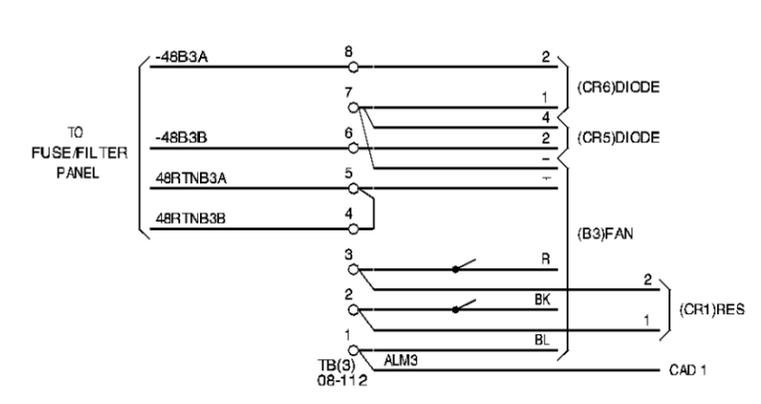
1. LEADS GO TO TOP OF CABINET TO FAN ALARM LED'S.
2. IN ALL LTP CABINETS, CONNECT TERMINAL 9 TO TERMINAL 27. IN ALL OTHER CABINETS TERMINALS 9 AND 27 ARE NO CONNECTS.
3. IN IM MODULE ONLY, CONNECT TERMINAL 26 OF THE IMC CABINET TO TERMINAL 6 OF ALL THE LTP CABINETS.
4. IN THE IM MODULE, CONNECT TERMINAL 17 AND 25 OF THE IMC CABINET TO TERMINAL 17 AND 25 OF THE LTP CABINETS RESPECTIVELY.

FAN ALARM  
CIRCUIT PACK  
CONNECTOR TERMINALS  
(ED-5D195-01)  
P/O 04-011

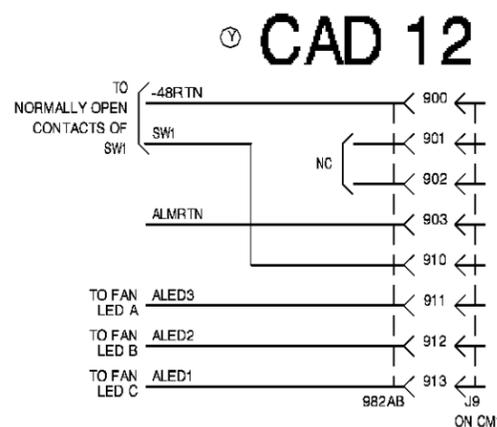
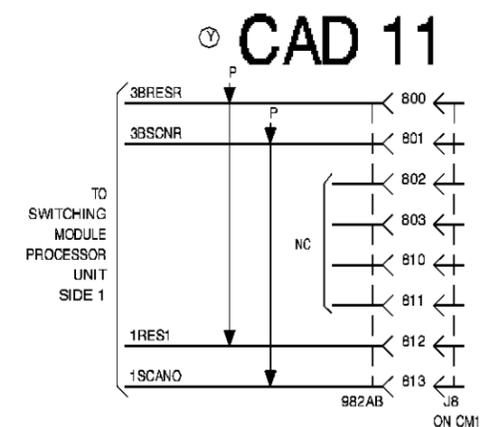
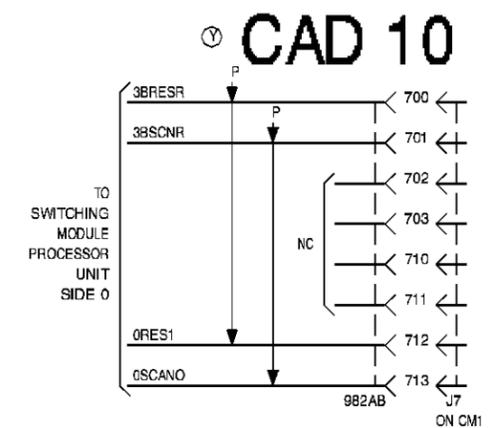
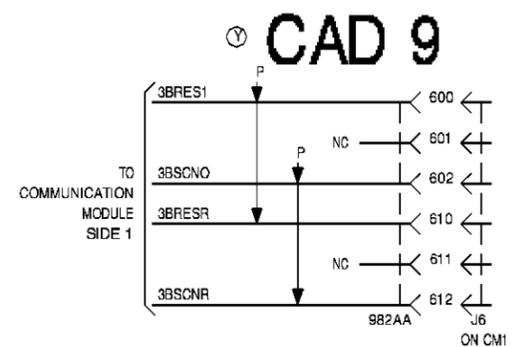
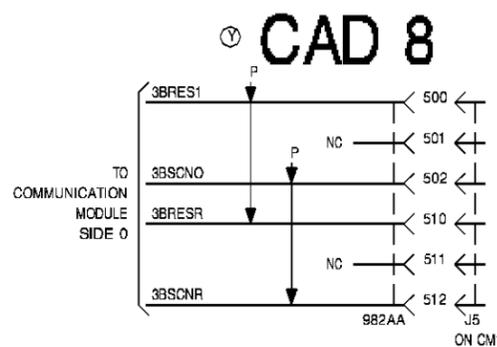
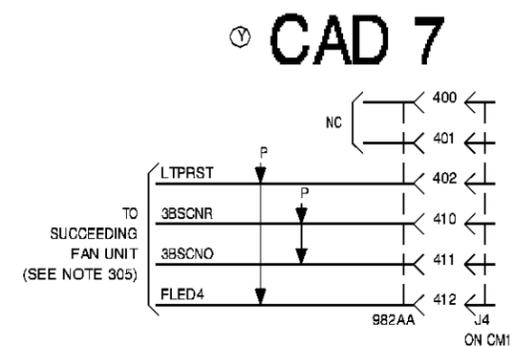
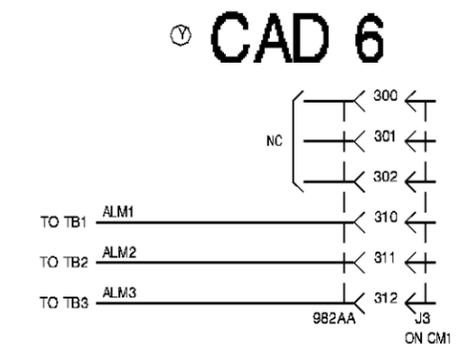
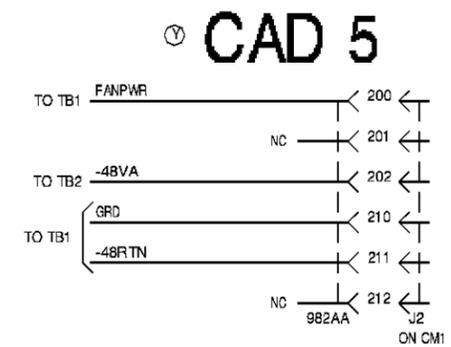
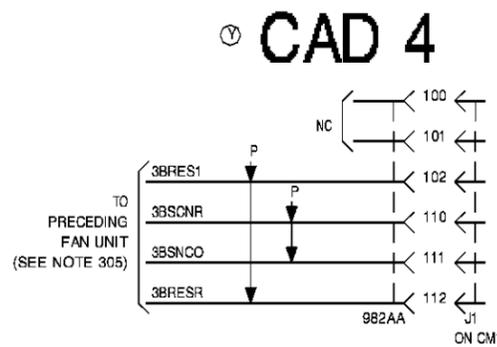
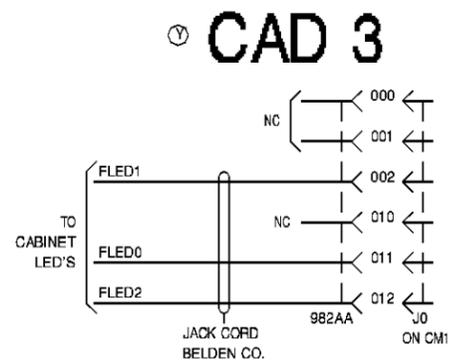
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3 FAN UNIT AND ALARM		DWG SIZE <b>C2</b>
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# ② CAD 2 (A&M ONLY)

## FAN POWER CONNECTIONS



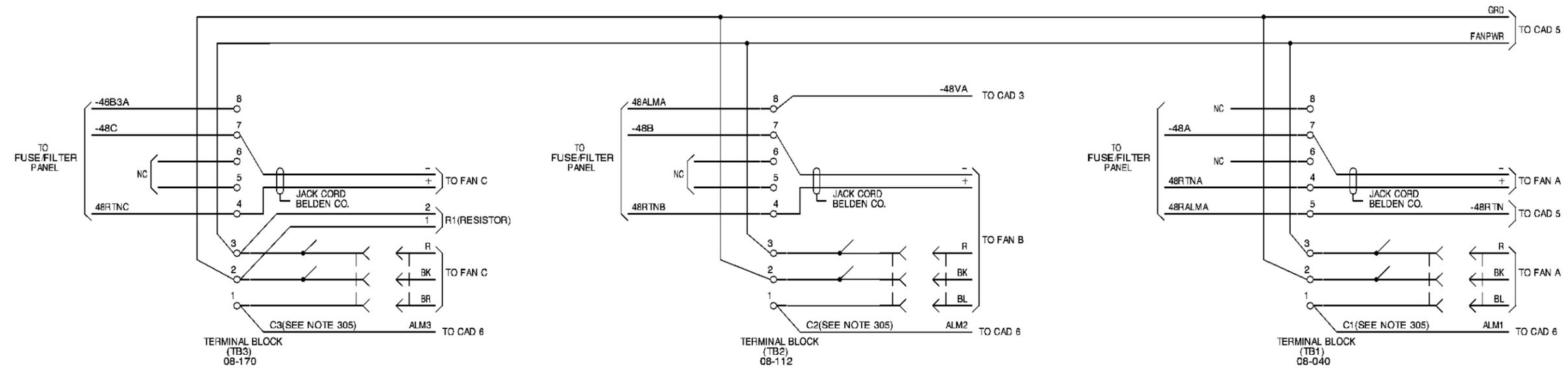
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		C2
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# CAD 13

FAN POWER CONNECTIONS



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