

MAINTENANCE MANUAL
SIMULCAST SYSTEM DRAWINGS
CONTROL POINT COMMON EQUIPMENT
5 SITE 5 CHANNEL

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DESCRIPTION

This manual contains the equipment configuration and cable interrack and intrarack interconnection drawings (power and signal) required for installation and maintenance of a Simulcast System with up to 5 sites and up to 5 channels. It also contains the cable connection lists that provide the interconnect cabling information for the simulcast equipment and the external interconnect cabling information to interconnect the Site Controller to the simulcast GETC/RIC equipment.

The configuration drawings identify the four racks comprising the simulcast equipment: GETC, two simulcast racks - digital and analog, and the test rack, that make up the 5 site 5 channel system. The equipment configuration of each rack is also shown. The configuration drawings also show a rear view of the rack and identify the interconnecting jacks for each shelf

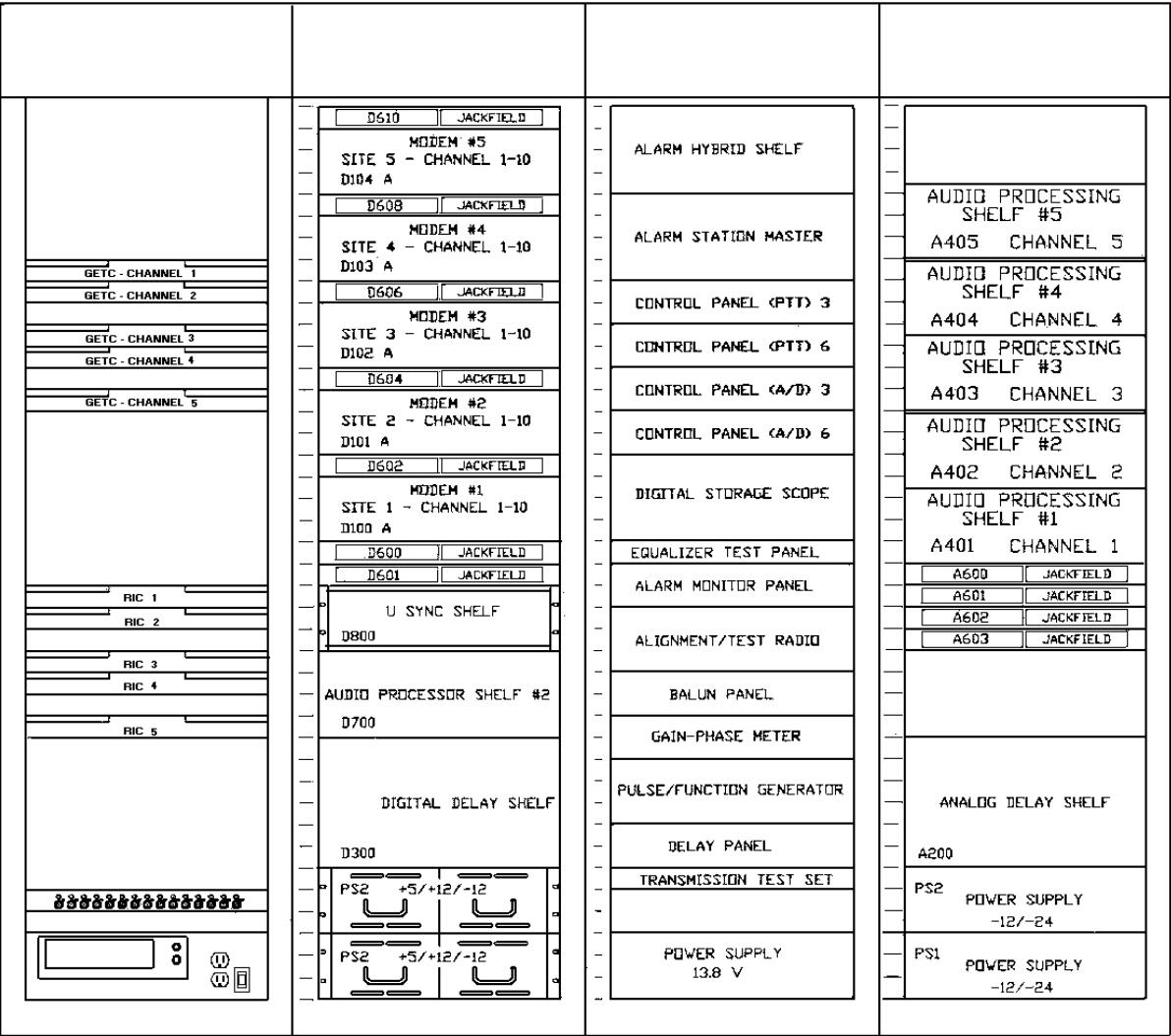
Field installation drawings show the signal and dc power interrack cabling. The Control Point digital and analog cross connect wiring diagrams trace the signal paths through the simulcast equipment, and the dc power wiring diagrams show the power distribution throughout the individual racks. Cable connection lists provide detailed information on the system cabling, the associated interconnecting jacks and the functions for which the interconnecting cables are used.

Being aware of the information contained on each of these drawings will make servicing the simulcast system easier. For example, having determined the number of a problem channel you would refer to the configuration drawings to identify the rack and shelf where it is located. Rack 2 contains the audio processing shelves for channels 1 thru 5 (two channels per shelf) and identifies which channels are associated with each shelf. It also identifies designator assigned to the shelf; it is useful for signal tracing, i.e. A401. The rear view of these drawings identify the shelves and the jack configuration on each. Then, by referring to the analog cross connect diagram (19C852278) you see that A401 interconnects with the analog cross connect panel B401 and jackfield A600. It also shows that this particular path carries voted voice. The cable connection list identifies the specific cable used and its interconnection points.

Rack 2 also contains the jackfields, analog delay shelf and related dc power supplies to power the rack. Cabling for the analog delay shelf, jackfields and power supplies can be traced in the same manner as described above.

Equipment designators are identified below:

D100 - Modem Interface Module	D500 - GETC
D200 - Analog Delay Shelf Jackfield	A600 -
D300 - Digital Delay Shelf Processing Shelf # 2	A700 - Audio
A400 - Audio Processing Shelf # 1 Universal Sync Shelf	D800 -
_900 - Control Pane	



GETC RACK
PER PART 26

⑥ RACK 1
FRONT VIEW

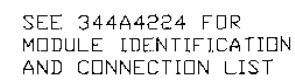
TEST RACK
PER PART 24

⑦ RACK 2
FRONT VIEW

SEE 344A4224 FOR
MODULE IDENTIFICATION
AND CONNECTION LIST

5 SITE 5 CHANNEL CONFIGURATION
Equipment Rackup, Front View

(19D904160 Sh. 8, Rev. 3



ANALOG PROCESSING SHELF #2				DIGITAL CROSS CONNECTIONS, RACK #1							
SLOT 01	150 BAUD BRIDGE				FROM		TO			CABLE	
SLOT 02	MULTITONE MODULE		SITE 01-04	S1	DIGITAL CROSS CONNECT J57		MODEM SHELF D100-A	J01		19D903985P14	
SLOT 03	MULTITONE MODULE		SITE 05-08	S1	DIGITAL CROSS CONNECT J87		MODEM SHELF D100-A	J02		19D903985P16	
				S2	DIGITAL CROSS CONNECT J58		MODEM SHELF D101-A	J01		19D903985P14	
				S2	DIGITAL CROSS CONNECT J88		MODEM SHELF D101-A	J02		19D903985P14	
				S3	DIGITAL CROSS CONNECT J59		MODEM SHELF D102-A	J01		19D903985P14	
				S3	DIGITAL CROSS CONNECT J89		MODEM SHELF D102-A	J02		19D903985P14	
				S4	DIGITAL CROSS CONNECT J60		MODEM SHELF D103-A	J01		19D903985P14	
				S4	DIGITAL CROSS CONNECT J90		MODEM SHELF D103-A	J02		19D903985P14	
				S5	DIGITAL CROSS CONNECT J61		MODEM SHELF D104-A	J01		19D903985P14	
				S5	DIGITAL CROSS CONNECT J91		MODEM SHELF D104-A	J02		19D903985P14	
				S1	MODEM SHELF D100-A	J04	JACKFIELD D602	P01		19D903985P22	
				S1	MODEM SHELF D100-A	J06	JACKFIELD D602	P02		19D903985P22	
				S2	MODEM SHELF D101-A	J04	JACKFIELD D604	P01		19D903985P22	
				S2	MODEM SHELF D101-A	J06	JACKFIELD D604	P02		19D903985P22	
				S3	MODEM SHELF D102-A	J04	JACKFIELD D606	P01		19D903985P22	
				S3	MODEM SHELF D102-A	J06	JACKFIELD D606	P02		19D903985P22	
				S4	MODEM SHELF D103-A	J04	JACKFIELD D608	P01		19D903985P22	
				S4	MODEM SHELF D103-A	J06	JACKFIELD D608	P02		19D903985P22	
				S5	MODEM SHELF D104-A	J04	JACKFIELD D610	P01		19D903985P22	
				S5	MODEM SHELF D104-A	J06	JACKFIELD D610	P02		19D903985P22	
				S1	C01-10 DIGITAL CROSS CONNECT J27		DIGITAL DELAY D300	P01		19D903985P18	
				S2	C01-10 DIGITAL CROSS CONNECT J28		DIGITAL DELAY D300	P02		19D903985P18	
				S3	C01-10 DIGITAL CROSS CONNECT J29		DIGITAL DELAY D300	P03		19D903985P18	
				S4	C01-10 DIGITAL CROSS CONNECT J30		DIGITAL DELAY D300	P04		19D903985P18	
				S5	C01-10 DIGITAL CROSS CONNECT J31		DIGITAL DELAY D300	P05		19D903985P18	
				C01	DIGITAL CROSS CONNECT J01		CONNECTOR PANEL #01	P01		19D903985P24	
				C02	DIGITAL CROSS CONNECT J02		CONNECTOR PANEL #01	P02		19D903985P24	
				C03	DIGITAL CROSS CONNECT J03		CONNECTOR PANEL #01	P03		19D903985P24	
				C04	DIGITAL CROSS CONNECT J04		CONNECTOR PANEL #01	P04		19D903985P24	
				C05	DIGITAL CROSS CONNECT J05		CONNECTOR PANEL #01	P05		19D903985P24	
				C1-4	DIGITAL CROSS CONNECT J71		UNIV. SYNC SHLF D800	P05		19D903985P16	
				C5-8	DIGITAL CROSS CONNECT J72		UNIV. SYNC SHLF D800	P06		19D903985P16	
				A	DIGITAL CROSS CONNECT J26		JACKFIELD D600	P01		19D903985P24	
				A	ANALOG PROC SHLF D700 J02		JACKFIELD D600	P02		19D903985P52	
				A	DIGITAL CROSS CONNECT J79		ANALOG PROC SHF D700	J01		19D903985P36	

5 SITE 5 CHANNEL CONFIGURATION

Module Location & Identification, Analog Rack

(344A4224, Sh. 1 Rev. 3)

5 SITE 5 CHANNEL CONFIGURATION

Cable Connections, Digital Rack 1

(344A4224, Sh. 2, Rev. 3)

A	DIGITAL CROSS CONNECT	J82	ANALOG PROC SHF D700	J03	19D903985P36
A	DIGITAL CROSS CONNECT	J67	UNIV SYNC SHF D800	P01	19D903985P16
A	DIGITAL CROSS CONNECT	J68	UNIV SYNC SHF D800	P02	19D903985P16
A	DIGITAL CROSS CONNECT	J69	UNIV SYNC SHF D800	P03	19D903985P16
A	DIGITAL CROSS CONNECT	J70	UNIV SYNC SHF D800	P04	19D903985P16
A	DIGITAL CROSS CONNECT	J78	UNIV SYNC SHF D800	P12	19D903985P16
A	DIGITAL CROSS CONNECT	J98	PANEL #3 A1	P01	19D903985P14
A	PANEL #3 A1	P02	JACKFIELD D601	J01	19D903985P36
A	DIGITAL CROSS CONNECT	J99	PANEL #3 A2	P01	19D903985P14
A	PANEL #3 A2	P02	JACKFIELD D601	P01	19D903985P26
A	DIGITAL CROSS CONNECT	J85	PANEL #3 A3	P01	19D903985P14
A	PANEL #3 A3	P02	JACKFIELD D601	J02	19D903985P36
A	DIGITAL CROSS CONNECT	J86	PANEL #3 A4	P01	19D903985P14
A	PANEL #3 A4	P02	JACKFIELD D601	P02	19D903985P26
DCC	DIGITAL CROSS CONNECT	J80	CONNECTOR PANEL #01	P06	19D903985P24
DCC	DIGITAL CROSS CONNECT	J81	CONNECTOR PANEL #01	P07	19D903985P24
DCC	DIGITAL CROSS CONNECT	J83	CONNECTOR PANEL #01	P08	19D903985P24
DCC	DIGITAL CROSS CONNECT	J84	CONNECTOR PANEL #01	P09	19D903985P24

ANALOG CROSS CONNECTIONS, RACK #2					
A	JACKFIELD A600	P01	ANALOG PROC SHF A401	J01	19D903985P22
C01	ANALOG CROSS CONNECT J01		ANALOG PROC SHF A401	J03	19D903985P64
C02	ANALOG CROSS CONNECT J02		ANALOG PROC SHF A402	J03	19D903985P64
C03	ANALOG CROSS CONNECT J03		ANALOG PROC SHF A403	J03	19D903985P62
C04	ANALOG CROSS CONNECT J04		ANALOG PROC SHF A404	J03	19D903985P62
C05	ANALOG CROSS CONNECT J05		ANALOG PROC SHF A405	J03	19D903985P62
S1 C1-20	ANALOG CROSS CONNECT J36		ANALOG DELAY SHF A200	P01	19D903985P18
S2 C1-20	ANALOG CROSS CONNECT J37		ANALOG DELAY SHF A200	P02	19D903985P18
S3 C1-20	ANALOG CROSS CONNECT J38		ANALOG DELAY SHF A200	P03	19D903985P18
S4 C1-20	ANALOG CROSS CONNECT J39		ANALOG DELAY SHF A200	P04	19D903985P18
S5 C1-20	ANALOG CROSS CONNECT J40		ANALOG DELAY SHF A200	P05	19D903985P18
S 1-2-3	ANALOG CROSS CONNECT J41		ANALOG DELAY SHF A200	P11	19D903985P18
S 4-5	ANALOG CROSS CONNECT J42		ANALOG DELAY SHF A200	P12	19D903985P18
S1 C1-20	ANALOG DELAY SHF A200	P06	JACKFIELD A600	P02	19D903985P24
2 C1-20	ANALOG DELAY SHF A200	P07	JACKFIELD A601	P01	19D903985P24
3 C1-20	ANALOG DELAY SHF A200	P08	JACKFIELD A601	P02	19D903985P24
4 C1-20	ANALOG DELAY SHF A200	P09	JACKFIELD A602	P01	19D903985P24
5 C1-20	ANALOG DELAY SHF A200	P10	JACKFIELD A602	P02	19D903985P24
C2	ANALOG PROC SHF A401	J02	ANALOG PROC SHF A402	J01	19D903985P12
C3	ANALOG PROC SHF A402	J02	ANALOG PROC SHF A403	J01	19D903985P12
C4	ANALOG PROC SHF A403	J02	ANALOG PROC SHF A404	J01	19D903985P12
C5	ANALOG PROC SHF A404	J02	ANALOG PROC SHF A405	J01	19D903985P12
ACC	ANALOG CROSS CONNECT J33		CONNECTOR PANEL #01	P01	19D903985P24
ACC	ANALOG CROSS CONNECT J34		CONNECTOR PANEL #01	P02	19D903985P24
ANALOG DELAY SHELF 19D902531G3					
150 DATA	ANALOG DELAY SHF A200	P13	PANEL #3 B1	J01	19D903985P14
150 DATA	ANALOG DELAY SHF A200	P14	PANEL #3 B1	J02	19D903985P14
150 DATA	PANEL #3 B1	J05	JACKFIELD A603	P01	19D903985P52
ANALOG DELAY SHELF 19D902531G6					
150 DATA	ANALOG DELAY SHF A200	P13	JACKFIELD A603	P01	19D903985P24

5 SITE 5 CHANNEL CONFIGURATION
Cable Connections, Digital Rack 1

(344A4224, Sh. 3, Rev. 3)

5 SITE 5 CHANNEL CONFIGURATION
Cable Connections, Analog Rack 2

(344A4224, Sh. 3, Rev. 3)

DC POWER CONNECTIONS, DIGITAL RACK #1

PP1	POWER PANEL #01	P05	DIGITAL DELAY SHELF TB1	19D903880P721
PP1	POWER PANEL #01	P07	UNIVERSAL SYNC SHELF TB1	19D903880P784
PP1	POWER PANEL #01	P08	ANALOG PROC SHLF #2 P16/P17	19D903880P733
PS1	TB1-01	YELLOW	+5	BUS+5
PS1	TB1-02	YELLOW	+5	
PS1	TB1-03	YELLOW	+5	
PS1	TB1-04	YELLOW	+5	BUS+5
PS1	TB1-05	YELLOW	+5	
PS1	TB1-06	YELLOW	+5	
PS1	TB1-07	BLACK	GND	BUSGD
PS1	TB1-08	BLACK	GND	
PS1	TB1-09	BLACK	GND	
PS1	TB1-10	BLACK	GND	BUSGD
PS1	TB1-11	BLACK	GND	
PS1	TB1-12	BLACK	GND	
PS1	TB1-13	ORANGE	+12	BUS+12
PS1	TB1-14	BLUE	-12	BUS-12
PS1	TB1-14	BLUE	-12	BUS-12
PS1	TB1-15	BLACK	GND	BUSGD
PS1	TB1-16	BROWN	+5 SENS	BUS+5
PS1	TB1-17	WHITE	RTN SENS	BUSGD
PP2	POWER PANEL #02	P01	MODEM SHELF D100A	TB1 19D903880P714
PP2	POWER PANEL #02	P02	MODEM SHELF D101A	TB1 19D903880P714
PP2	POWER PANEL #02	P03	MODEM SHELF D102A	TB1 19D903880P714
PP2	POWER PANEL #02	P04	MODEM SHELF D103A	TB1 19D903880P714
PP2	POWER PANEL #02	P04A	MODEM SHELF D104A	TB1 19D903880P714
PS2	TB1-01	YELLOW	+5	BUS+5
PS2	TB1-02	YELLOW	+5	
PS2	TB1-03	YELLOW	+5	
PS2	TB1-04	YELLOW	+5	BUS+5
PS2	TB1-05	YELLOW	+5	
PS2	TB1-06	YELLOW	+5	
PS2	TB1-07	BLACK	GND	BUSGD
PS2	TB1-08	BLACK	GND	
PS2	TB1-09	BLACK	GND	
PS2	TB1-10	BLACK	GND	BUSGD

5 SITE 5 CHANNEL CONFIGURATION
DC Power Cable Connections, Digital Rack 1

(344A4224. Sh. 3, Rev. 3)

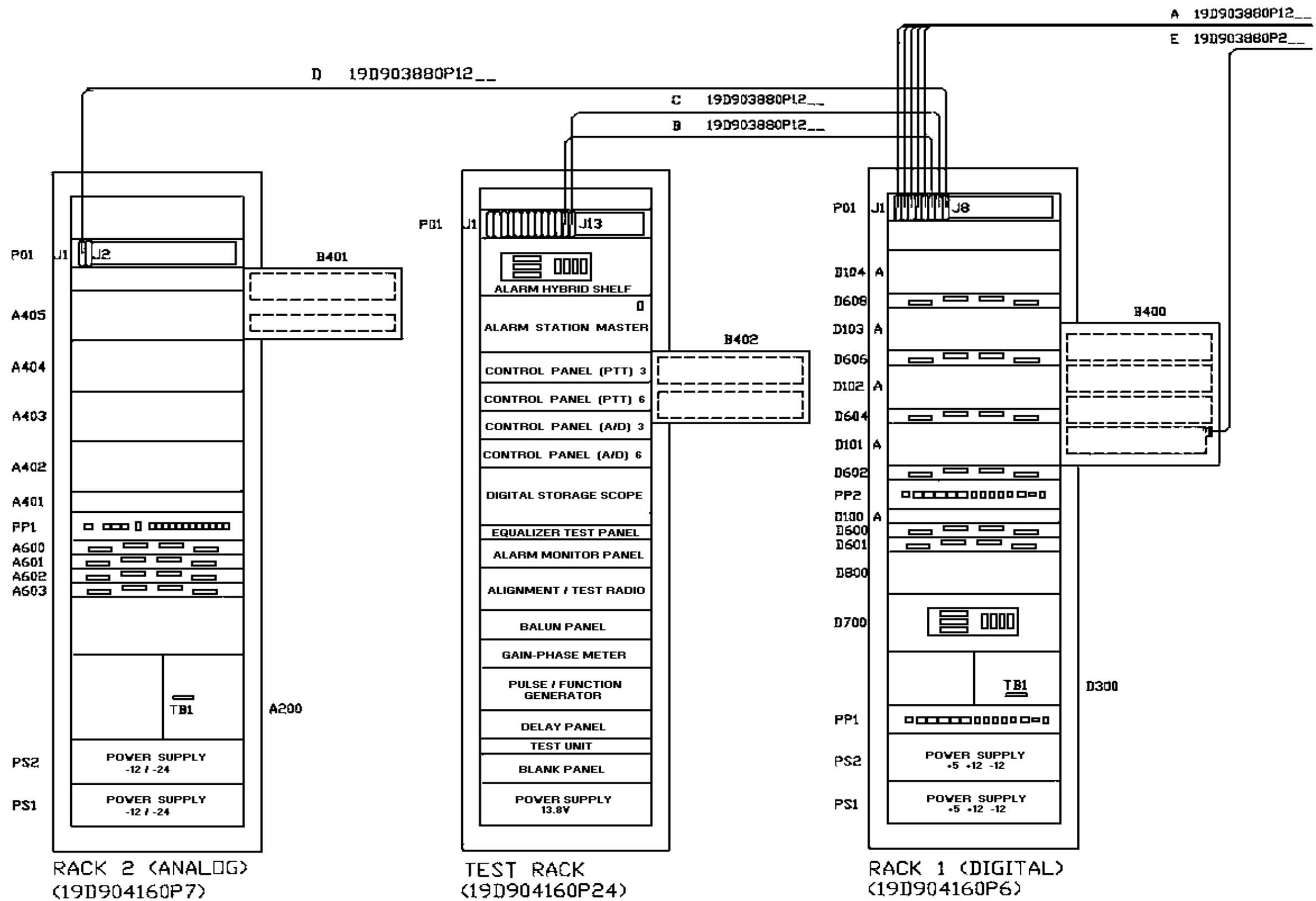
PS2	TB1-11	BLACK	GND	
PS2	TB1-12	BLACK	GND	
PS2	TB1-13	ORANGE	+12	BUS+12
PS2	TB1-14	BLUE	-12	BUS-12
PS2	TB1-14	BLUE	-12	BUS-12
PS2	TB1-15	BLACK	GND	BUSGD
PS2	TB1-16	BROWN	+5 SENS	BUS+5
PS2	TB1-17	WHITE	RTN SENS	BUSGD

POWER CONNECTIONS, ANALOG RACK #2

PS1	POWER SUPPLY PS1 TB1-1/6	POWER SUPPLY PS2 TB1-1/6	19D903880P810
PS2	POWER PANEL #01 P13		19D903880P804
P13-01	BLUE	-12	POWER SUPPLY PS2 TB1- 1
P13-02	BLUE	-12	POWER SUPPLY PS2 TB1- 2
P13-03	BLACK	GND	POWER SUPPLY PS2 TB1- 3
P13-04	BLACK	GND	POWER SUPPLY PS2 TB1- 4
P13-05	GREEN	-24	POWER SUPPLY PS2 TB1- 5
P13-06	GREEN	-24	POWER SUPPLY PS2 TB1- 6
PP1	POWER PANEL #01 P01	ANALOG PROC SHLF A401 TB1	19D903880P774
PP1	POWER PANEL #01 P02	ANALOG PROC SHLF A402 TB1	19D903880P774
PP1	POWER PANEL #01 P03	ANALOG PROC SHLF A403 TB1	19D903880P774
PP1	POWER PANEL #01 P04	ANALOG PROC SHLF A404 TB1	19D903880P774
PP1	POWER PANEL #01 P05	ANALOG PROC SHLF A405 TB1	19D903880P774

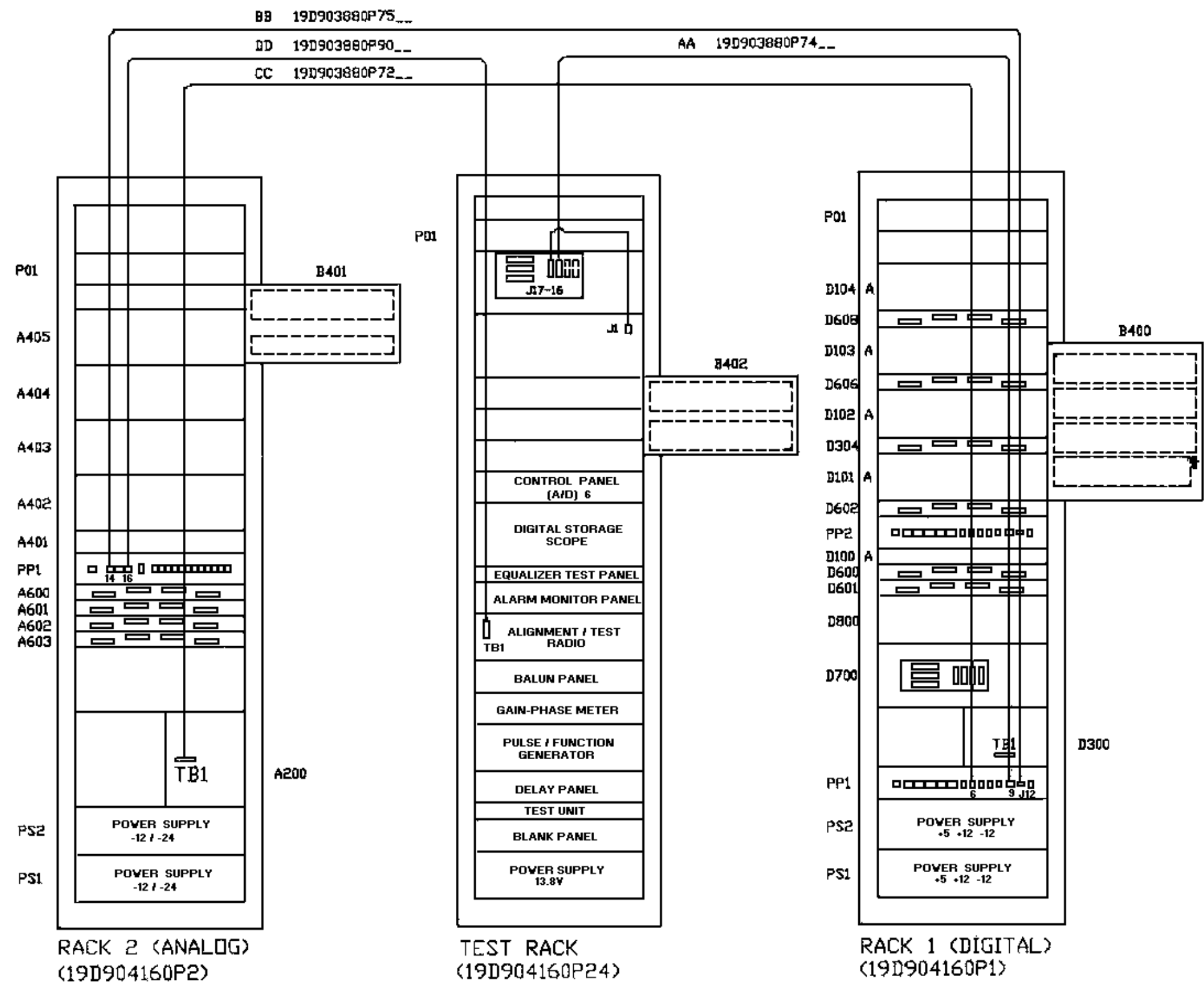
5 SITE 5 CHANNEL CONFIGURATION
DC Power Cable Connections, Analog Rack 2

(344A4224. Sh. 3, Rev. 3)



5 SITE 5 CHANNEL CONFIGURATION
External & Interrack Signal Cabling BACK VIEW OF RACKS -- WIRING IS DETAILED IN CONNECTION LIST 444A4885

(19C852393 Sh. 1, Rev. 0)



BACK VIEW OF RACKS -- WIRING IS DETAILED IN CONNECTION LIST 344A4885

5 SITE 5 CHANNEL CONFIGURATION
Inter rack DC Power Cabling
(19C852393 Sh. 2, Rev. 0)

DIGITAL RACK #1

FROM		TO	CABLE		
CONNECTOR PANEL 01	P01	GETC RACK #	GETC CH 01	19D903880P122	A
CONNECTOR PANEL 01	P02	GETC RACK #	GETC CH 02	19D903880P122	A
CONNECTOR PANEL 01	P03	GETC RACK #	GETC CH 03	19D903880P122	A
CONNECTOR PANEL 01	P04	GETC RACK #	GETC CH 04	19D903880P122	A
CONNECTOR PANEL 01	P05	GETC RACK #	GETC CH 05	19D903880P122	A
CONNECTOR PANEL 01	P06	RACK TEST CONNECTOR PANEL 01	P12	19D903880P120	B
CONNECTOR PANEL 01	P07	RACK TEST CONNECTOR PANEL 01	P13	19D903880P120	C
CONNECTOR PANEL 01	P08	RACK #2 CONNECTOR PANEL 01	P01	19D903880P123	D
CONNECTOR PANEL 01	P09	FIELD INSTAL DIGITAL ALARMS			
DIGITAL CROSS CONNECT	P97	GETC CAB. SYNC CTRL (SERIAL DATA J24)	19D903880P25		E

ANALOG RACK #2

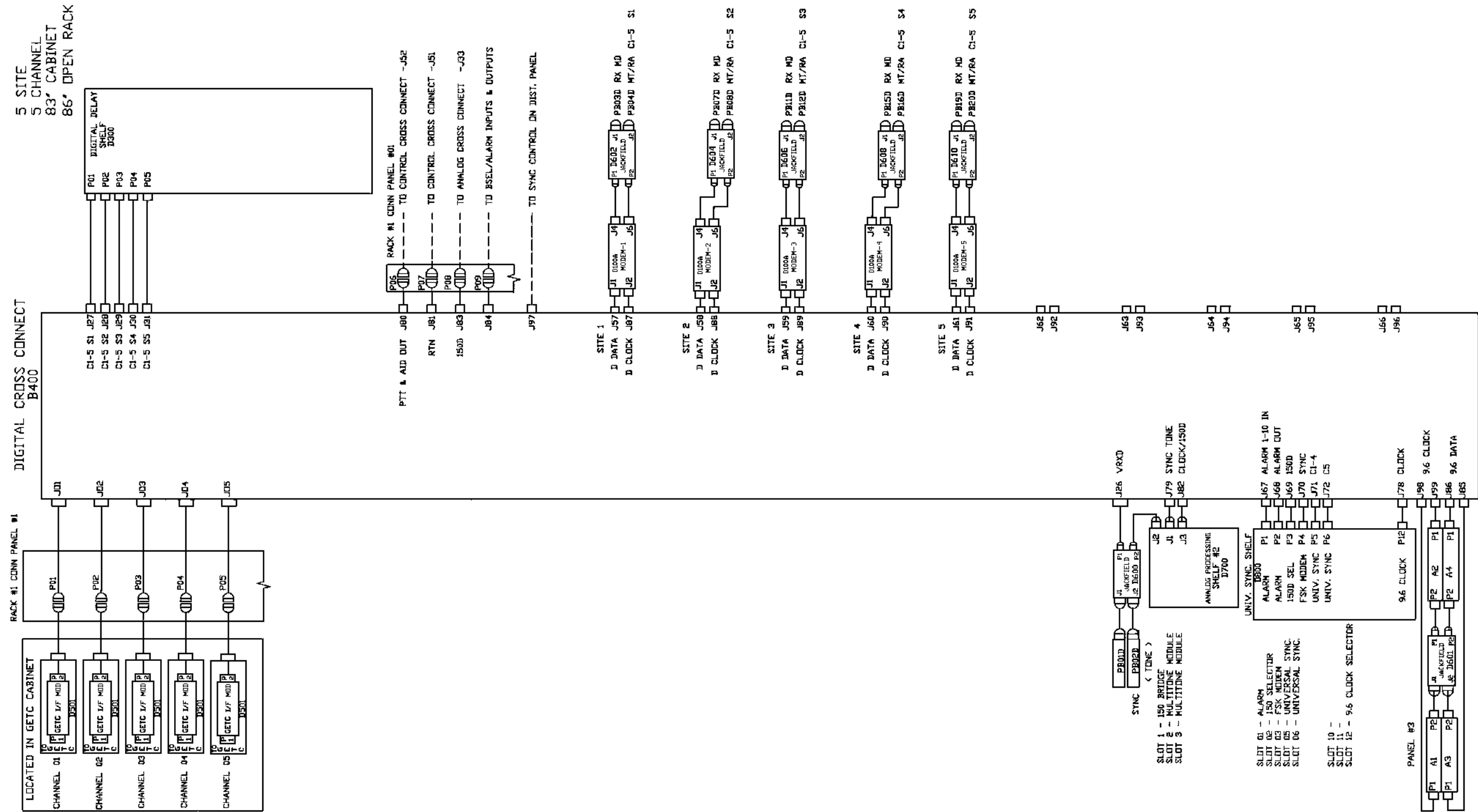
CONNECTOR PANEL 01	P02	FIELD INSTAL ANALOG BSEL			
PP1	RACK 1 POWER PANEL 01	J09	TEST RACK ALARM SHELF J01	19D903880P740	AA
			HYBRID SHIELD J16		
			HYBRID SHIELD J17		
PP1	RACK 1 POWER PANEL 01	J12	RACK 2 PWR PANEL 01(-24) J14	19D903880P750	BB
PP1	RACK 1 POWER PANEL 01	J06	RACK 2 ANALOG DELAY SHELF TB1	19D903880P729	CC
PP1	RACK 2 POWER PANEL 01	J16	TEST PACK ALIGNMENT REC TB1	19D903880P900	DD

SITE CONTROLLER TO GETC/RIC RACK

RACK GETC/RIC	GETC DATA 1-12	J14	SITE CNTL GETC DATA 1-12	J14	19D903880P123	F
RACK GETC/RIC	GETC SERIAL	J21	SITE CNTL SERIAL MODULE	J14	19D903880P162	G
RACK GETC/RIC	RIC AUDIO 1-12	J14	SITE CNTL RIC AUDIO 1-12	J14	19D903880P122	R
RACK GETC/RIC	RIC SERIAL	J21	SITE CNTL SERIAL MODULE	J4	19D903880P162	S

5 SITE 5 CHANNEL CONFIGURATION
Interrack & GETC/RIC To Site Controller

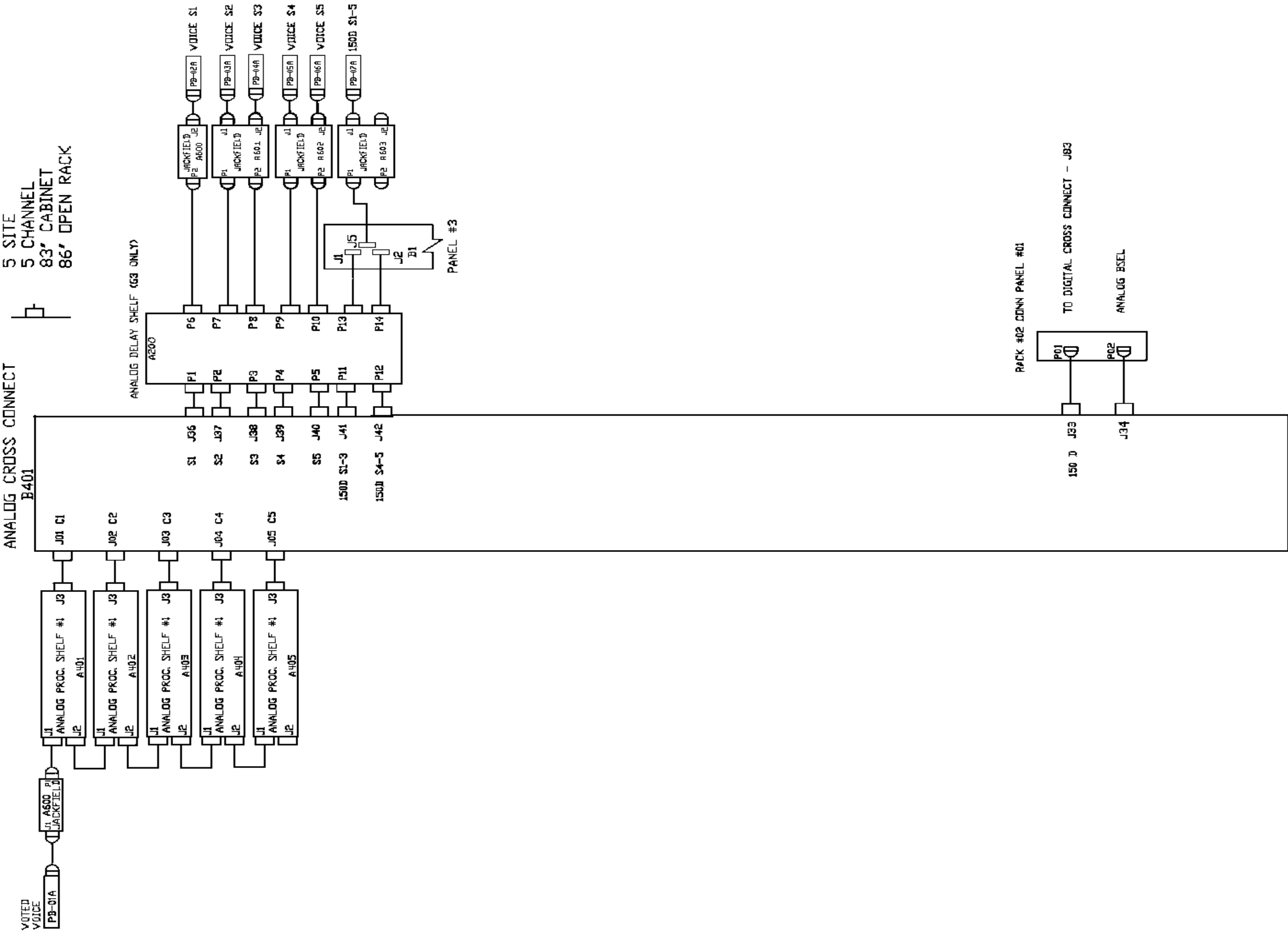
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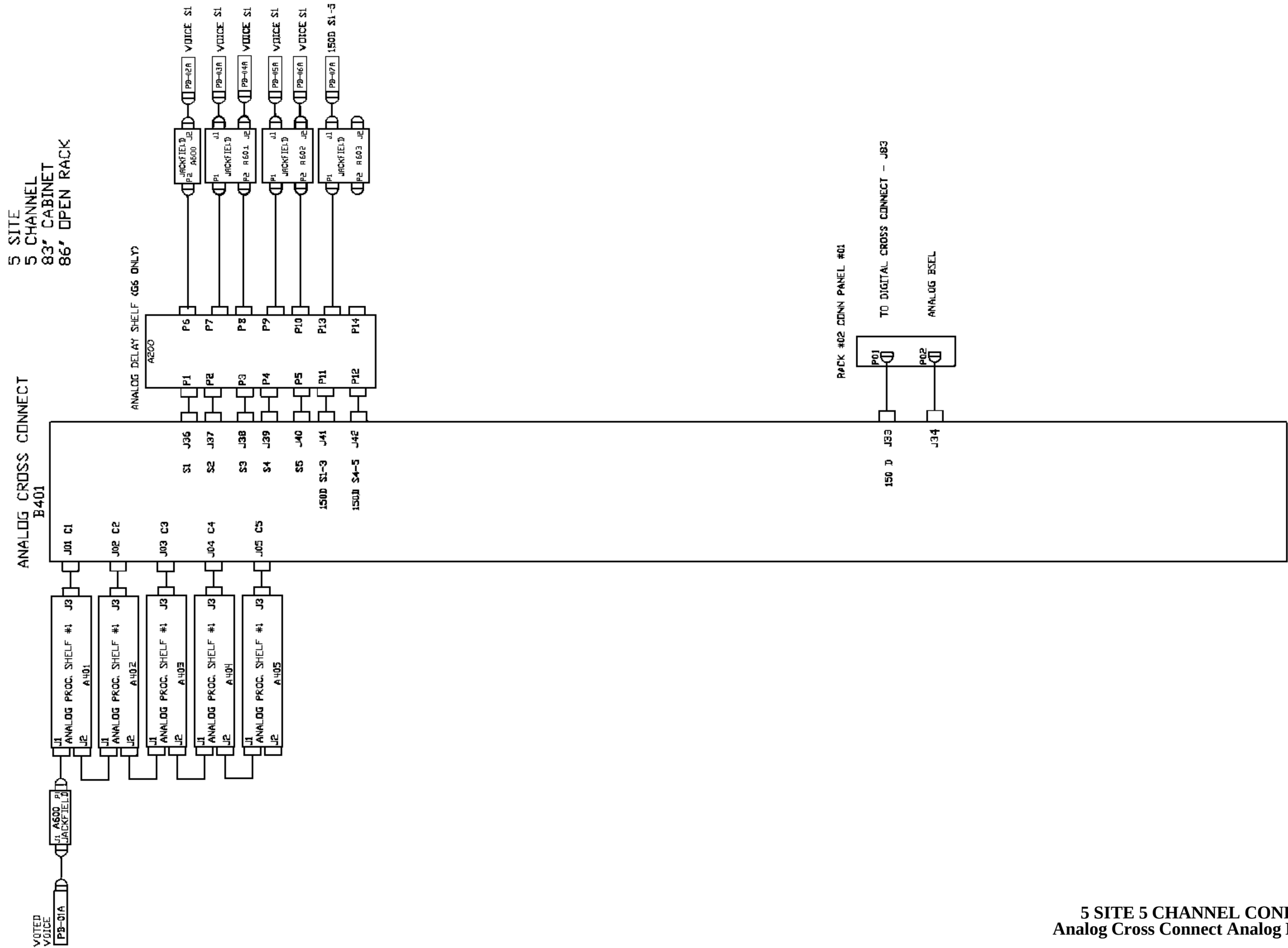


5 SITE 5 CHANNEL CONFIGURATION
Digital Cross Connect
(19C852273 Sh.. 1, Rev. 3)

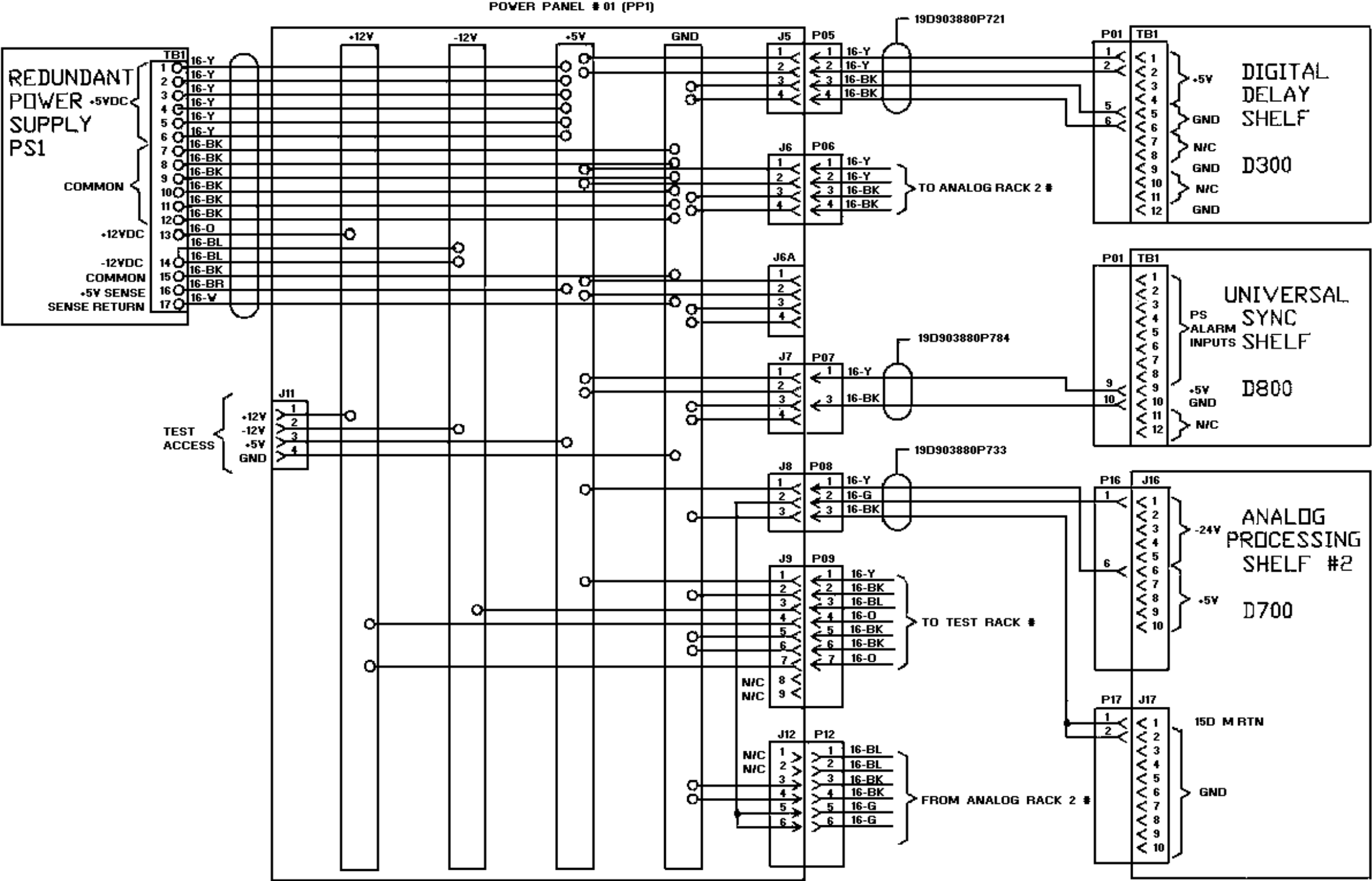
5 SITE 5 CHANNEL CONFIGURATION
Analog Cross Connect Analog Delay Shelf G3

(19C852274 Sh. 1, Rev. 3)





5 SITE 5 CHANNEL CONFIGURATION
Analog Cross Connect Analog Delay Shelf G6
(19C852274 Sh. 2, Rev. 0)

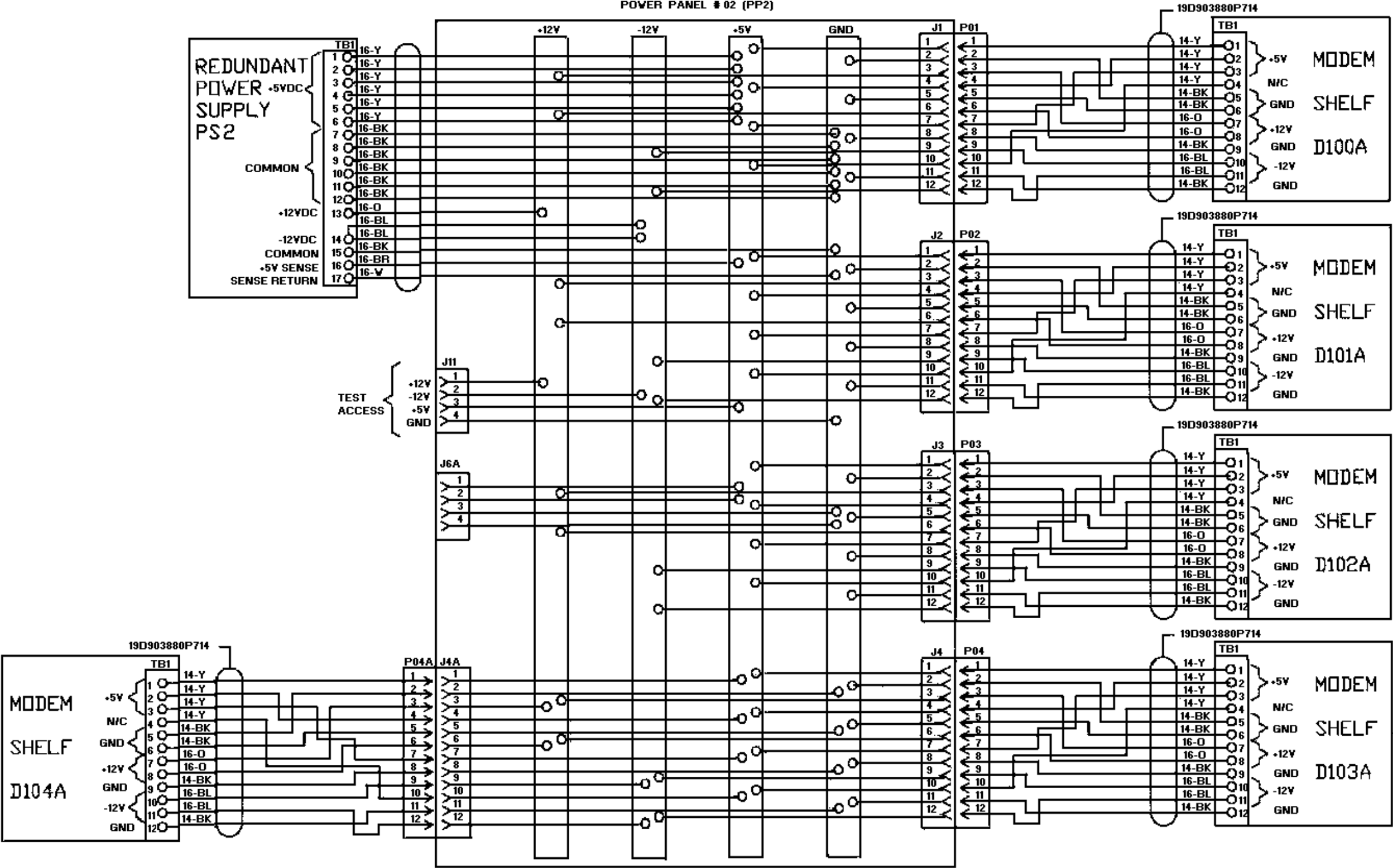


5 SITE 5 CHANNEL CONFIGURATION
Intrrack DC Power , Digital Rack 1

(19C852413 Sh. 1, Rev. 0)

DIGITAL RACK 1

WIRING IS DETAILED IN CONNECTION LIST 344A4224
* SEE 19C852393 SH 2 FOR INTERRACK POWER WIRING DIAGRAM

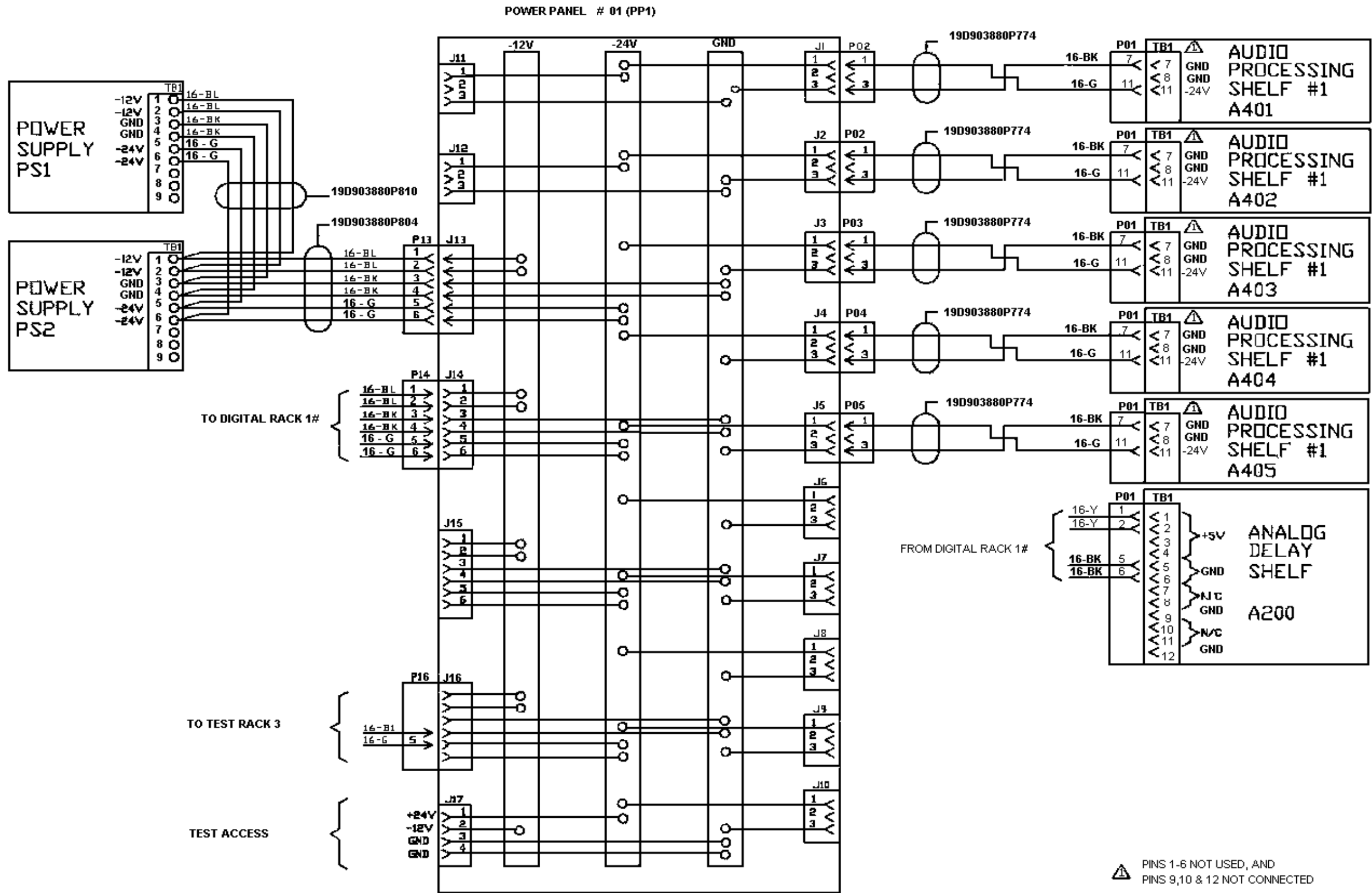


DIGITAL RACK 1

WIRING IS DETAILED IN CONNECTION LIST 344A4224

5 SITE 5 CHANNEL CONFIGURATION
Intrarack DC Power, Digital Rack 1, Modem Shelves

(19C852413 Sh. 2, Rev. 0)



5 SITE 5 CHANNEL CONFIGURATION
Intrrack DC Power , Analog Rack 2
(19C852413 Sh. 3, Rev. 0)

ANALOG RACK 2

WIRING IS DETAILED IN CONNECTION LIST 344A4224
* SEE 19C852393 SH 2 FOR INTERRACK POWER WIRING DIAGRAM

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