RHIC Accelerator Controls Section
Bldg. 1004B Rack Diagrams
BNL Drawing Numbers 94028512 to 94028528

Brookhaven National Laboratory, Upton, New York 11973

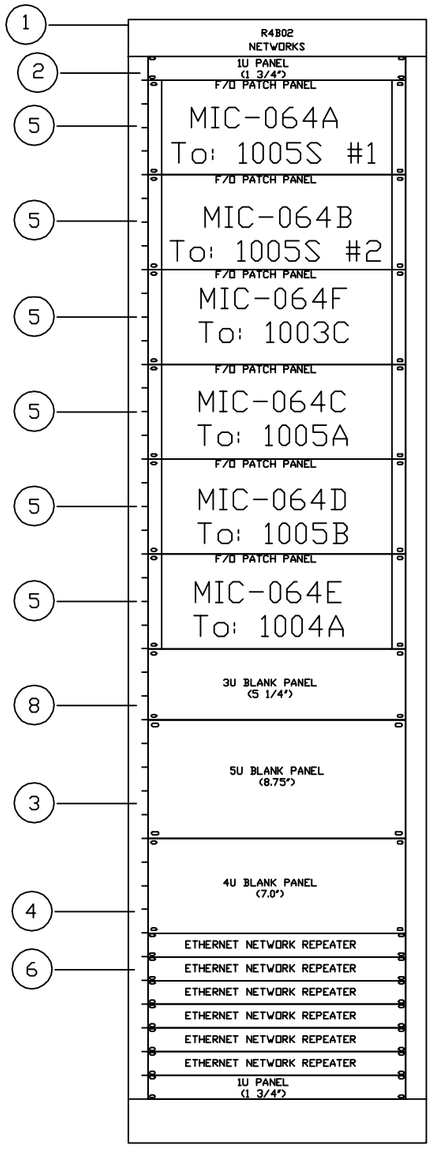
Created By: Ed Koropsak
Edited By: Phil Pape
Last Updated 5/5/2004

CONTROLS RACKS

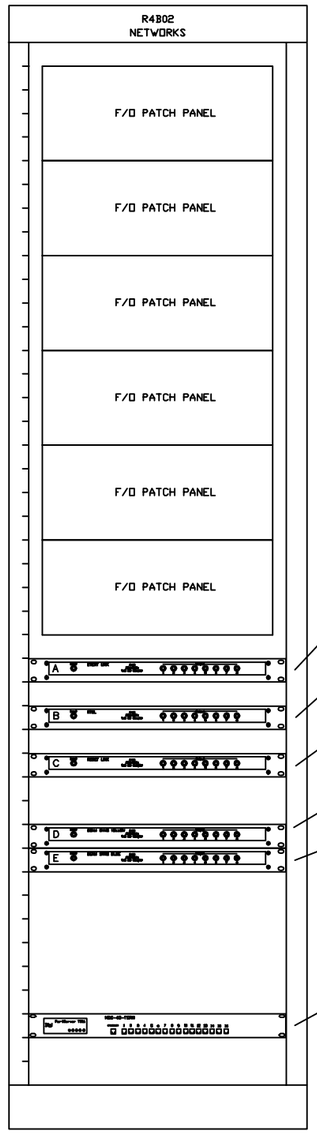
- Rack R4B02 (FIBER PATCH PANELS)
- Rack R4B03 (3U CHASSIS)
- Rack R4B04 (EVENT & TIME CHASSIS)
- Rack R4B05 (RTDL CHASSIS)
- Rack R4B06 (PS3 & PS4)
- Rack R4B07 (PS1 & PS5)
- Rack R4B19 (PS2 & PS6)

REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

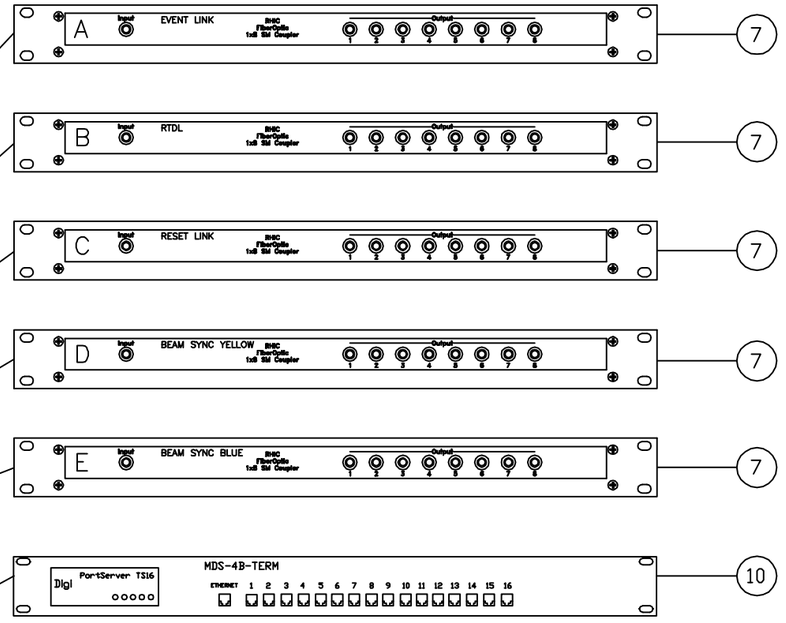
Controls, C-AD 4/20/2004 1:25 PM 8512.dwg



FRONT VIEW



REAR VIEW



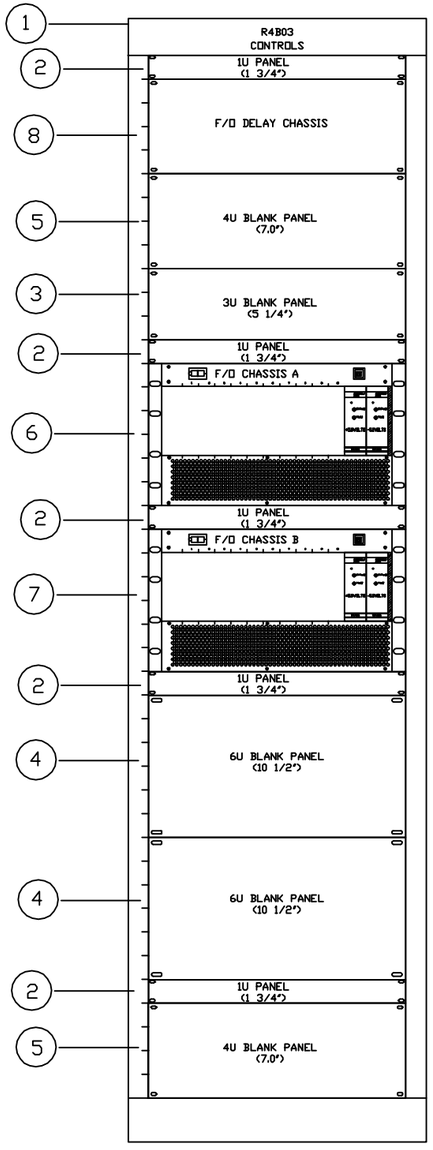
-3	-2	-1	QTY REQD	REF DESIGNATOR	ITEM NO.	DESCRIPTION	MATL SPEC NO./PART NO.
		1	1	A	10	DIGI PORT SERVER	
		AR	AR	PANELS	9	10-32 x 1/2" BINDING HEAD MACHINE SCREWS	T-32276
		1	1	NA	8	3U x 19" BLANK PANEL (PREMIER METAL ARP-519-553)	X
		5	5	A,B,C,D,E	7	1x8 FIBER OPTIC COUPLER	58030006
		6	6	NA	6	ETHERNET NETWORK REPEATERS	X
		6	6	NA	5	FIBER OPTIC PATCH PANEL (FONS)	X
		1	1	NA	4	4U x 19" BLANK PANEL (PREMIER METAL ARP-719-553)	X
		1	1	NA	3	5U x 19" BLANK PANEL (PREMIER METAL ARP-819-553)	X
		2	2	NA	2	1U x 19" BLANK PANEL (PREMIER METAL ARP-119-553)	X
		1	1	NA	1	19" RACK, 77" H RACK SPACE	X

INTERPRET IN GENERAL ACCORDANCE WITH ASME Y14.24M-1989	Q.A. CATEGORY A-3	DATE	BROOKHAVEN NATIONAL LABORATORY	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	DRAWN BY Phil Pape	11/5/97	UPTON, N.Y. 11973	
DECIMAL TOLERANCES .X ±.030 .XX ±.015 .XXX ±.005 ANGULAR TOLERANCE ± .5°	CHECKED BY		RHIC CONTROLS	
	DESIGN APPROVAL		SERVICE BLDG. 1004B	
	ENGINEER APPROVAL R. MICHNOFF	11/6/97	RACK R4B02 ASSEMBLY	
	SUPVR. APPROVAL		SIZE D	94028512 REV. A
NA FINISH BREAK SHARP EDGES MAX. XX MIN. XX	NEXT ASSEMBLY		DRAWING NUMBER	
OUTSTANDING ECN			MATERIAL: —— SCALE: NA WEIGHT: — SHEET 1 OF 1	

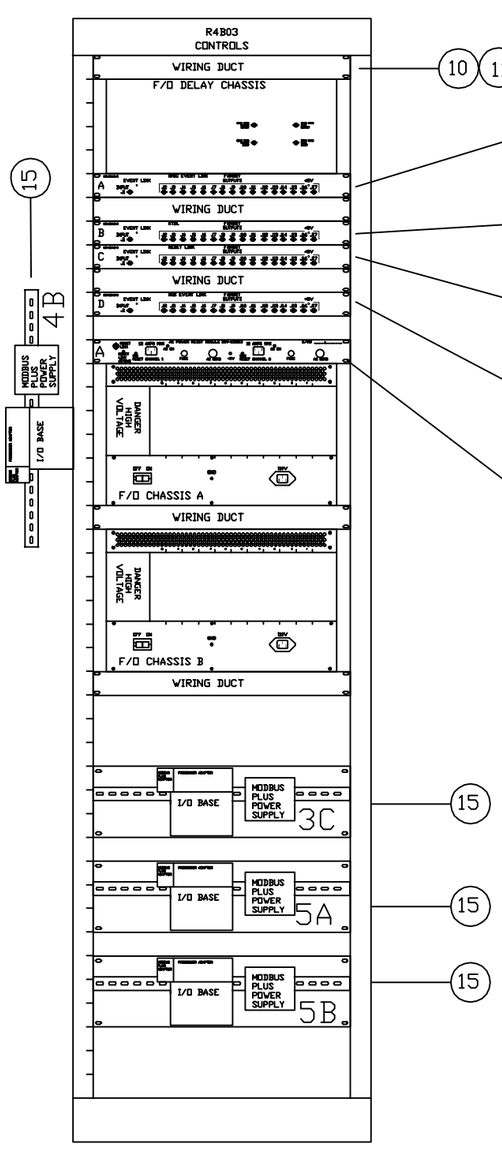
*AUTOCAD

REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

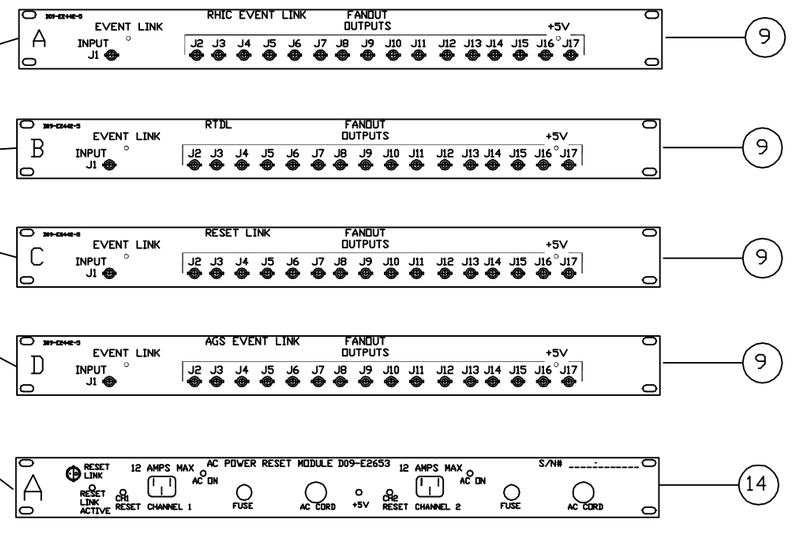
Controls, C-AD 4/20/2004 1:49 PM 8513.dwg



FRONT VIEW



REAR VIEW



QTY REQD			REF DESIGNATOR	ITEM NO.	DESCRIPTION	MAT'L DWG NO./PN. NO.
		4	A,B,C,D	15	MODBUS MOMENTUM PLC	
		1	AC	14	AC POWER RESET MODULE	D09-E2653
		AR	PANELS	13	10-32 x 1/2" BINDING HEAD MACHINE SCREWS	T-32276
		10	NA	12	WIRING DUCT SPRING CLIPS 1.5"W (PANDUIT S1.5-C)	X
		5	NA	11	WIRING DUCT COVER 1.5"w (PANDUIT C1.5LG6)	X
		5	NA	10	WIRING DUCT 1.5"W x 4"D (PANDUIT E1.5X4LG6)	X
		4	A,B,C,D	9	FANOUT ASSEMBLY	D09-E2442
		1	NA	8	FIBER OPTIC DELAY CHASSIS ASSY.	94028277
		1	NA	7	F/O CHASSIS B	94028519
		1	NA	6	F/O CHASSIS A	94028518
		2	NA	5	4U x 19" BLANK PANEL (PREMIER METAL ARP-719-553)	X
		2	NA	4	6U x 19" BLANK PANEL (PREMIER METAL ARP-1019-553)	X
		1	NA	3	3U x 19" BLANK PANEL (PREMIER METAL ARP-519-553)	X
		5	NA	2	1U x 19" BLANK PANEL (PREMIER METAL ARP-119-553)	X
		1	NA	1	19" RACK, 77" H RACK SPACE	X

INTERPRET IN GENERAL ACCORDANCE WITH ASME Y14.24M-1989

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

DECIMAL TOLERANCES
.X ±.030
.XX ±.015
.XXX ±.005
ANGULAR TOLERANCE
± .5°

NA FINISH

BREAK SHARP EDGES
MAX. XX MIN. XX

OUTSTANDING ECN

Q.A. CATEGORY A-3

DRAWN BY	Phil Pape	11/5/97
CHECKED BY		
DESIGN APPROVAL		
ENGINEER APPROVAL	R. MICHNOFF	11/6/97
SUPVR. APPROVAL		

NEXT ASSEMBLY

BROOKHAVEN NATIONAL LABORATORY
UPTON, N.Y. 11973

RHIC CONTROLS

SERVICE BLDG. 1004B

RACK R4B03 ASSEMBLY

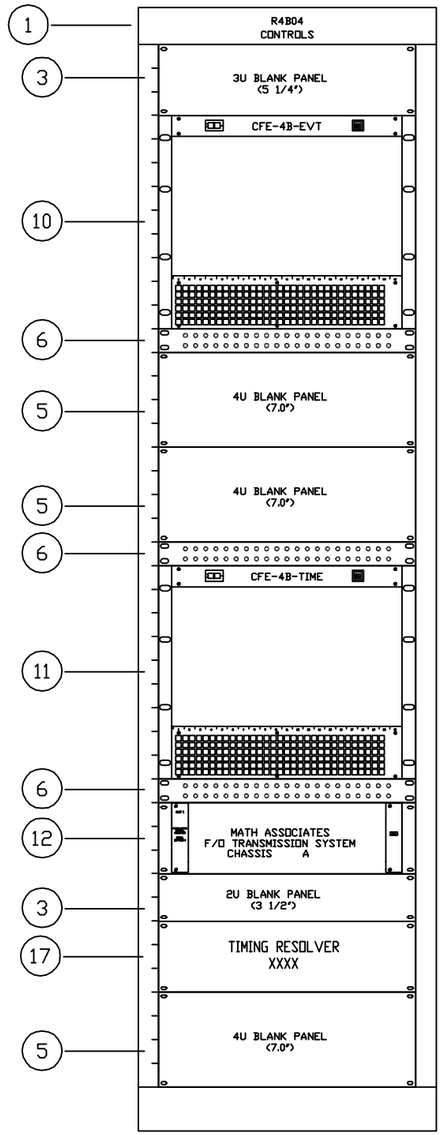
SIZE D | DRAWING NUMBER 94028513 | REV. A

MATERIAL: ——— | SCALE: NA | WEIGHT: – | SHEET 1 OF 1

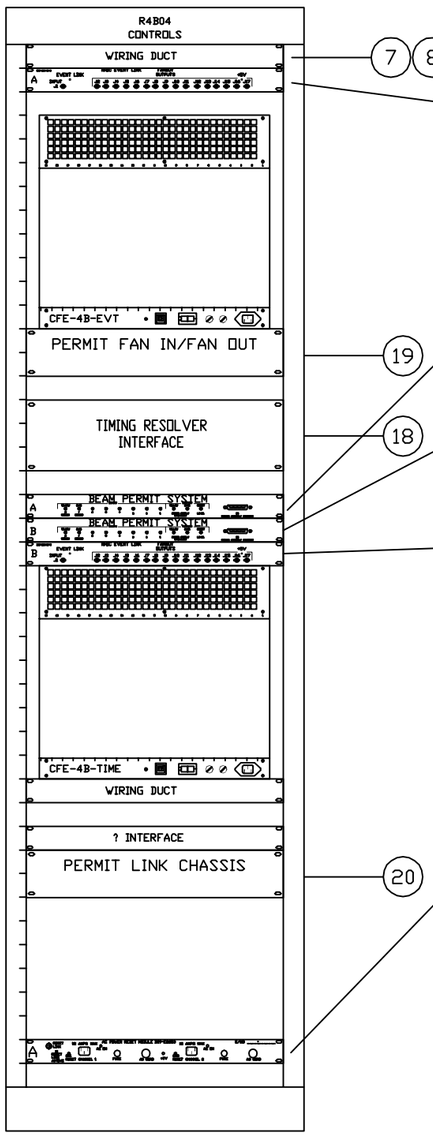
*AUTOCAD

REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

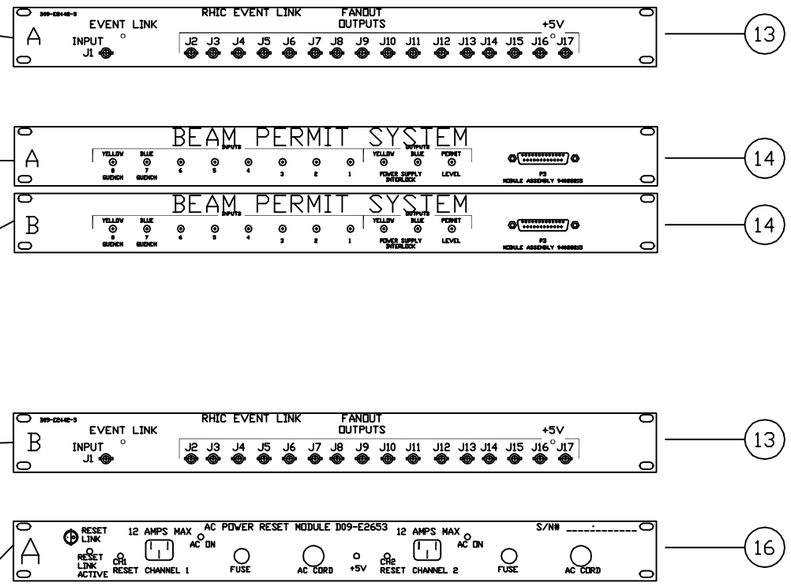
Controls, C-AD 4/20/2004 2:24 PM 8514.dwg



FRONT VIEW



REAR VIEW



		1	NA	20	PERMIT LINK CHASSIS	
		1	NA	19	PERMIT FAN IN/FAN OUT	
		1	NA	18	TIMING RESOLVER INTERFACE	
		1	NA	17	TIMING RESOLVER	
		1	A	16	AC POWER RESET MODULE	D09-E2653
		AR	PANELS	15	10-32 x 1/2" BINDING HEAD MACHINE SCREWS	T-32276
		2	A,B	14	BEAM PERMIT SYSTEM INTERFACE PANEL	94028215
		2	A,B	13	FANOUT ASSEMBLY	D09-E2442
		1	NA	12	MATH ASSOCIATE CHASSIS A	94028719
		1	NA	11	VME CHASSIS CFE-4B-TIME ASSY.	94028521
		1	NA	10	VME CHASSIS CFE-4B-EVT ASSY.	94028520
		4	NA	9	WIRING DUCT SNAP CLIPS 1.5"W (PANDUIT S1.5-C)	X
		2	NA	8	WIRING DUCT COVER 1.5"W (PANDUIT C1.5LG6)	X
		2	NA	7	WIRING DUCT 1.5"W x 4"D (PANDUIT E1.5X4LG6)	X
		3	NA	6	GROMMET PANEL	94028410
		3	NA	5	4U x 19" BLANK PANEL (PREMIER METAL ARP-719-553)	X
		1	NA	4	2U x 19" BLANK PANEL (PREMIER METAL ARP-319-553)	X
		1	NA	3	3U x 19" BLANK PANEL (PREMIER METAL ARP-519-553)	X
		0	NA	2	1U x 19" BLANK PANEL (PREMIER METAL ARP-119-553)	X
		1	NA	1	19" RACK, 77" H RACK SPACE	X
-3	-2	-1	REF DESIGNATOR	ITEM NO.	DESCRIPTION	MAT'L SPEC NO./DWG. NO.
QTY REQD						

INTERPRET IN GENERAL ACCORDANCE WITH ASME Y14.24M-1989

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

DECIMAL TOLERANCES
.X ±.030
.XX ±.015
.XXX ±.005
ANGULAR TOLERANCE ± .5°

FINISH: NA

BREAK SHARP EDGES MAX. XX MIN. XX

OUTSTANDING ECN

Q.A. CATEGORY A-3

DRAWN BY	Phil Pape	11/7/97
CHECKED BY		
DESIGN APPROVAL		
ENGINEER APPROVAL	R. MICHNOFF	11/7/97
SUPVR. APPROVAL		

NEXT ASSEMBLY

BROOKHAVEN NATIONAL LABORATORY
UPTON, N.Y. 11973
RHIC CONTROLS
SERVICE BLDG. 1004B
RACK R4B04 ASSEMBLY

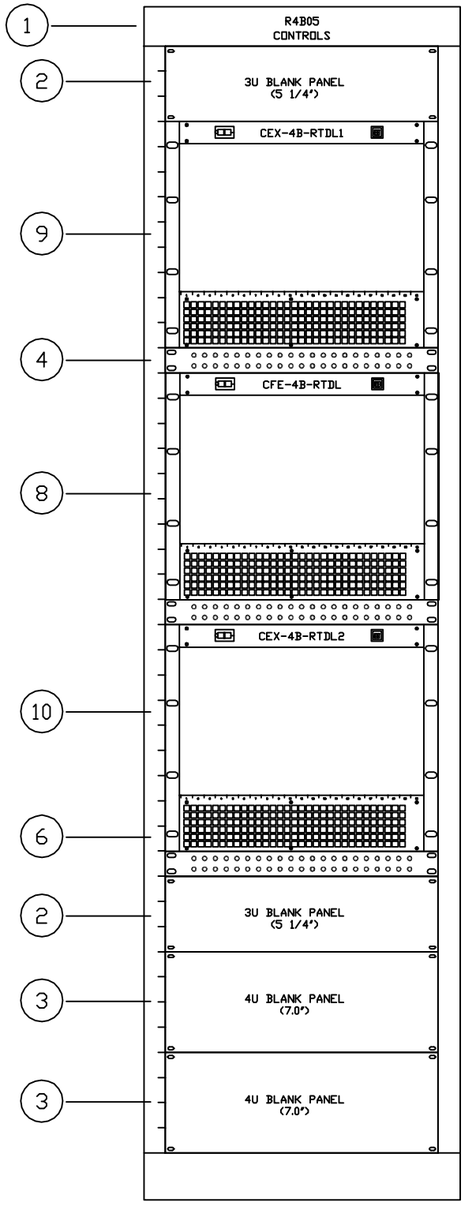
SIZE D | 94028514 | REV. A
DRAWING NUMBER

MATERIAL: ——— | SCALE: NA | WEIGHT: – | SHEET 1 OF 1

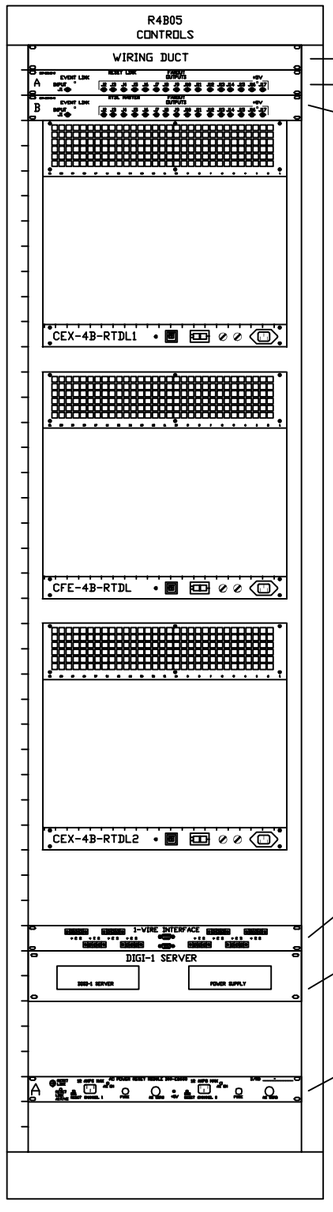
*AUTOCAD

REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

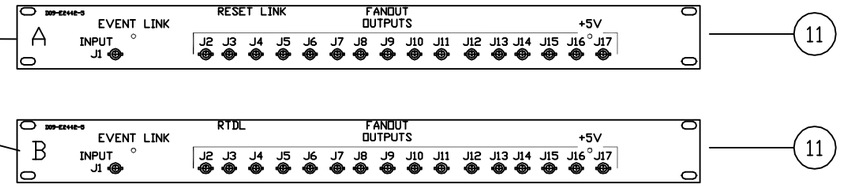
Controls, C-AD 4/20/2004 1:12 PM 8515.dwg

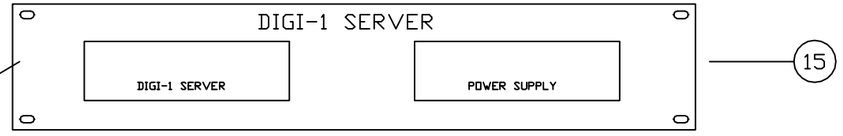


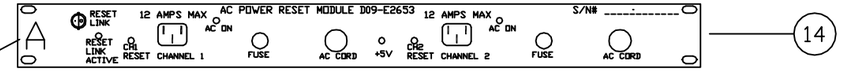
FRONT VIEW



REAR VIEW







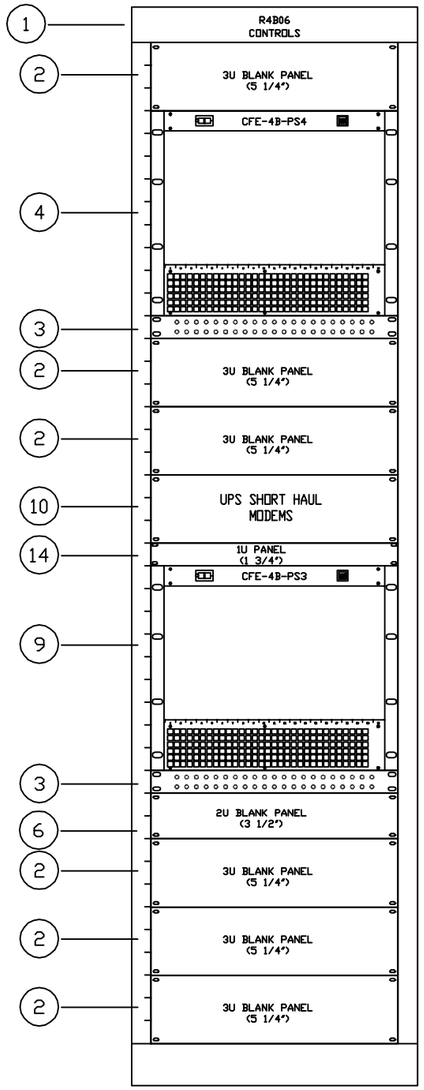
QTY REQD -3	QTY REQD -2	QTY REQD -1	REF DESIGNATOR	ITEM NO.	DESCRIPTION	MAT'L DWG NO./BNL NO.
		1	A	16	1-WIRE INTERFACE	
		1	A	15	Digi SERVER	
		1	A	14	AC POWER RESET MODULE	D09-E2653
		AR	PANELS	13	10-32 x 1/2" BINDING HEAD MACHINE SCREWS	T-32276
				12		
		2	A,B	11	FANOUT ASSEMBLY	D09-E2442
		1	NA	10	VME CHASSIS CEX-4B-RTDL2 ASSY.	94028524
		1	NA	9	VME CHASSIS CEX-4B-RTDL1 ASSY.	94028523
		1	NA	8	VME CHASSIS CFE-4B-RTDL ASSY.	94028522
		2	NA	7	WIRING DUCT SNAP CLIPS 1.5"W (PANDUIT S1.5-C)	X
		1	NA	6	WIRING DUCT COVER 1.5"W (PANDUIT C1.5LG6)	X
		1	NA	5	WIRING DUCT 1.5"W x 4"D (PANDUIT E1.5X4LG6)	X
		3	NA	4	GROMMET PANEL	94028410
		2	NA	3	4U x 19" BLANK PANEL (PREMIER METAL ARP-719-553)	X
		2	NA	2	3U x 19" BLANK PANEL (PREMIER METAL ARP-519-553)	X
		1	NA	1	19" RACK, 77" H RACK SPACE	X

INTERPRET IN GENERAL ACCORDANCE WITH ASME Y14.24M-1989	Q.A. CATEGORY A-3	DATE	BROOKHAVEN NATIONAL LABORATORY
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	DRAWN BY Phil Pape	11/21/97	UPTON, N.Y. 11973
DECIMAL TOLERANCES .X ±.030 .XX ±.015 .XXX ±.005 ANGULAR TOLERANCE ± .5°	CHECKED BY		RHIC CONTROLS
	DESIGN APPROVAL		SERVICE BLDG. 1004B
	ENGINEER APPROVAL R. MICHNOFF	11/21/97	RACK R4B05 ASSEMBLY
	SUPVR. APPROVAL		SIZE D — 94028515 — REV. A
NA FINISH — BREAK SHARP EDGES MAX. XX MIN. XX	NEXT ASSEMBLY		DRAWING NUMBER
OUTSTANDING ECN			MATERIAL: — SCALE: NA WEIGHT: — SHEET 1 OF 1

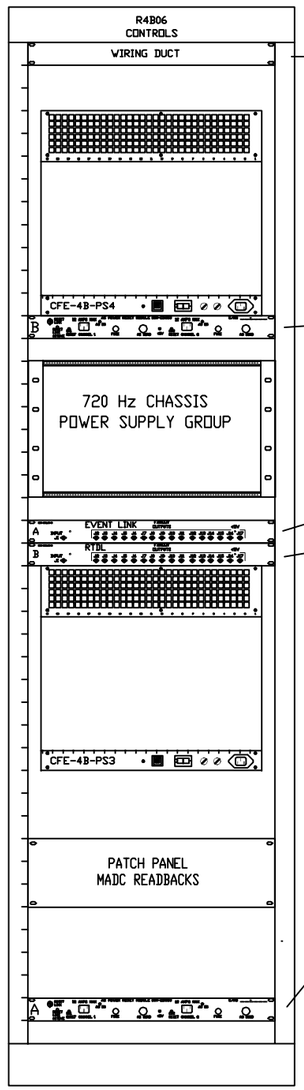
8 7 6 5 4 3 2 1 *AUTOCAD

REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

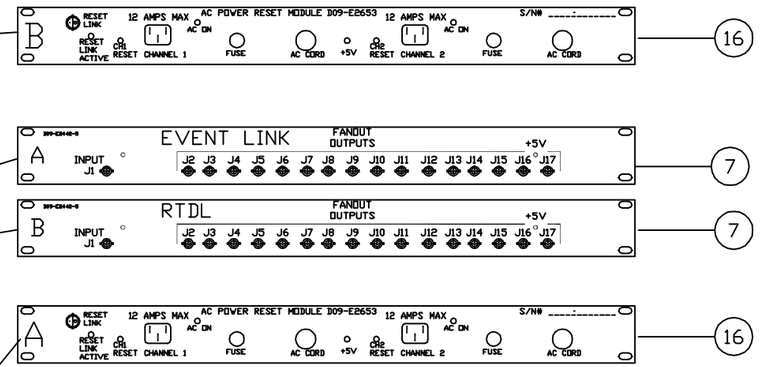
Controls, C-AD 4/20/2004 4:08 PM 8515a.dwg



FRONT VIEW



REAR VIEW



THIS IS
USED FOR
PS1 & PS3
IN R4B07

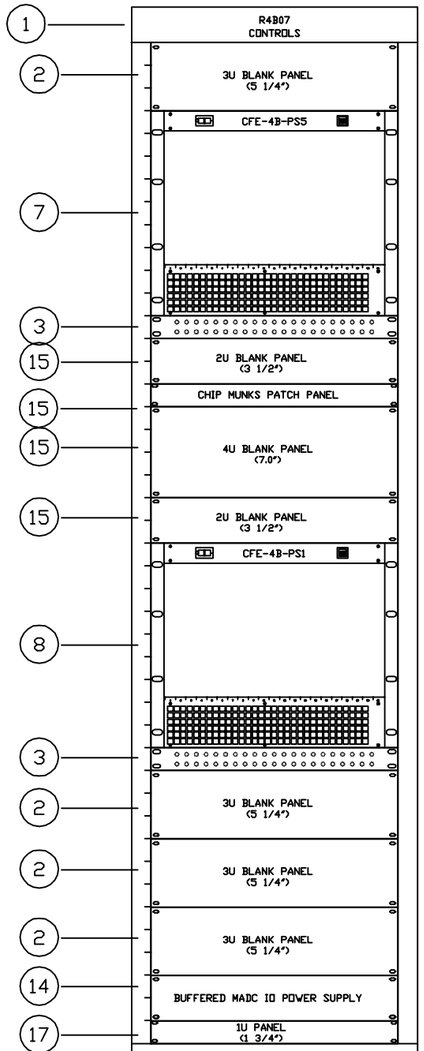
-3	-2	-1	QTY REQD	REF DESIGNATOR	ITEM NO.	DESCRIPTION	MAT'L DWG NO./ENG. NO.
		2	NA		18	WIRING DUCT SNAP CLIPS 1.5"W (PANDUIT S1.5-C)	X
		1	NA		17	WIRING DUCT COVER 1.5"W (PANDUIT C1.5LG6)	X
		1	NA		16	WIRING DUCT 1.5"W x 4"D (PANDUIT E1.5X4LG6)	X
		AR	PANELS		15	10-32 x 1/2" BINDING HEAD MACHINE SCREWS	T-32276
		1	NA		14	1U x 19" BLANK PANEL (PREMIER METAL ARP-119-553)	
		2	A,B		13	AC POWER RESET MODULE	D09-E2653
		-			12		
		1	NA		11	720 Hz POWER SUPPLY GROUP CHASSIS	
		1	NA		10	UPS SHORT HAUL MODEMS	
		1	NA		9	VME CHASSIS CFE-4B-PS3	94028525
		1	NA		8	MADC PATCH PANEL	
		2	A,B		7	FANOUT ASSEMBLY	D09-E2442
					6		
		1	NA		5	2U x 19" BLANK PANEL (PREMIER METAL APR-319-553)	
		1	NA		4	VME CHASSIS CFE-4B-PS4	94028527
		1	NA		3	GROMMET PANEL	94028410
		2	NA		2	3U x 19" BLANK PANEL (PREMIER METAL ARP-519-553)	X
		1	NA		1	19" RACK, 77" H RACK SPACE	X

INTERPRET IN GENERAL ACCORDANCE WITH ASME Y14.24M-1989	Q.A. CATEGORY A-3	DATE	BROOKHAVEN NATIONAL LABORATORY
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	DRAWN BY PAPE	9/16/2002	UPTON, N.Y. 11973
DECIMAL TOLERANCES .X ±.030 .XX ±.015 .XXX ±.005 ANGULAR TOLERANCE ± .5°	CHECKED BY		RHIC CONTROLS
	DESIGN APPROVAL		SERVICE BLDG. 1004B
	ENGINEER APPROVAL R. MICHNOFF		RACK R4B06 ASSEMBLY
NA FINISH	BREAK SHARP EDGES MAX. XX MIN. XX	NEXT ASSEMBLY	SIZE D — 94028515A — REV. A
OUTSTANDING ECN			MATERIAL: —— SCALE: NA WEIGHT: – SHEET 1 OF 1

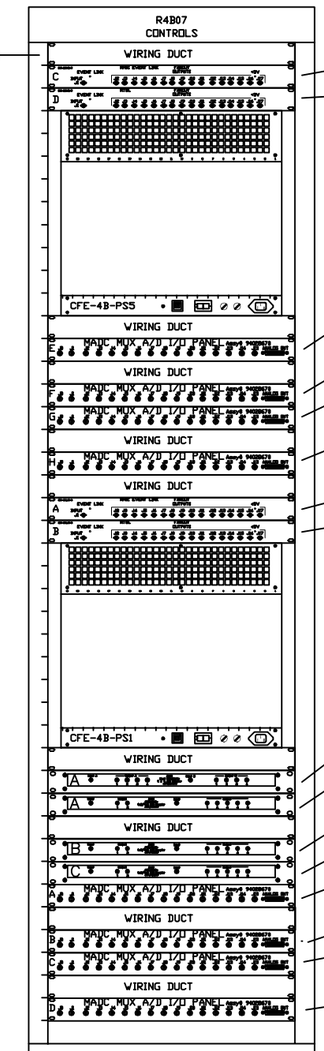
8 7 6 5 4 3 2 1 *AUTOCAD

REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

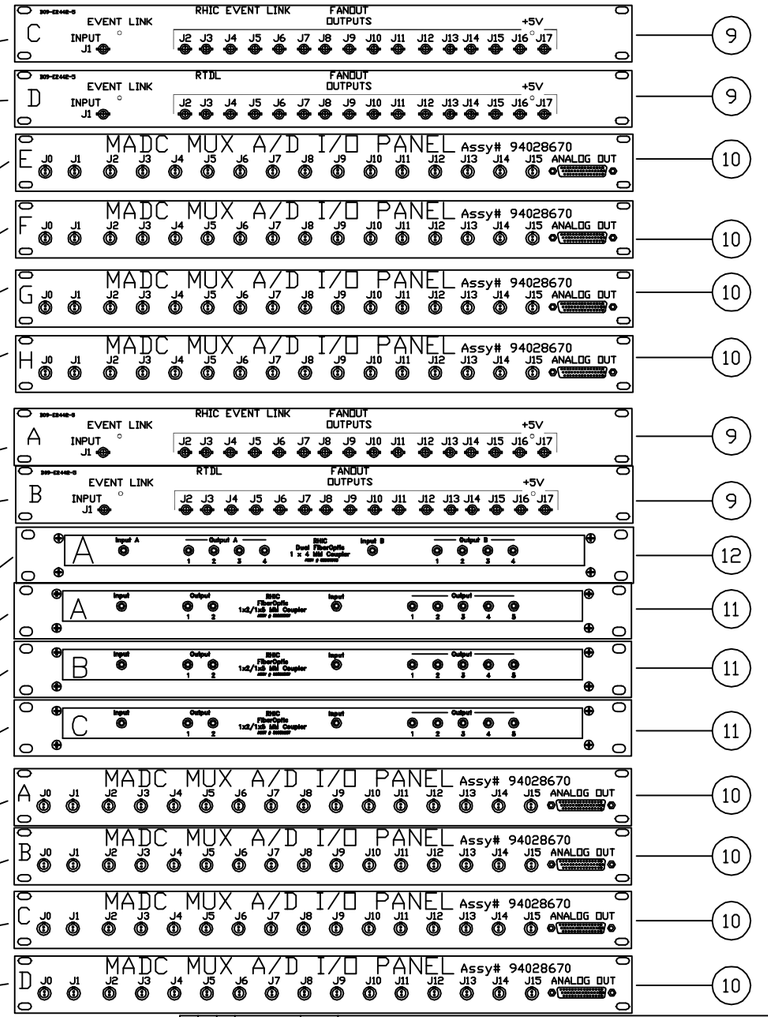
Controls, C-AD 4/22/2004 8:23 AM 8516.dwg



FRONT VIEW



REAR VIEW



		2	NA	7	VME CHASSIS CFE-4B-PS5 ASSY.	94028525
		18	NA	6	WIRING DUCT SNAP CLIPS 1.5"W (PANDUIT S1.5-C)	X
		9	NA	5	WIRING DUCT COVER 1.5"W (PANDUIT C1.5LG6)	X
		9	NA	4	WIRING DUCT 1.5"W x 4"D (PANDUIT E1.5X4LG6)	X
		2	NA	3	GROMMET PANEL	94028410
		4	NA	2	3U x 19" BLANK PANEL (PREMIER METAL ARP-519-553)	X
		1	NA	1	19" RACK, 77" H RACK SPACE	X
-3	-2	-1	REF DESIGNATOR	ITEM NO.	DESCRIPTION	MAT'L DWG NO./PRL NO.
QTY REQD						

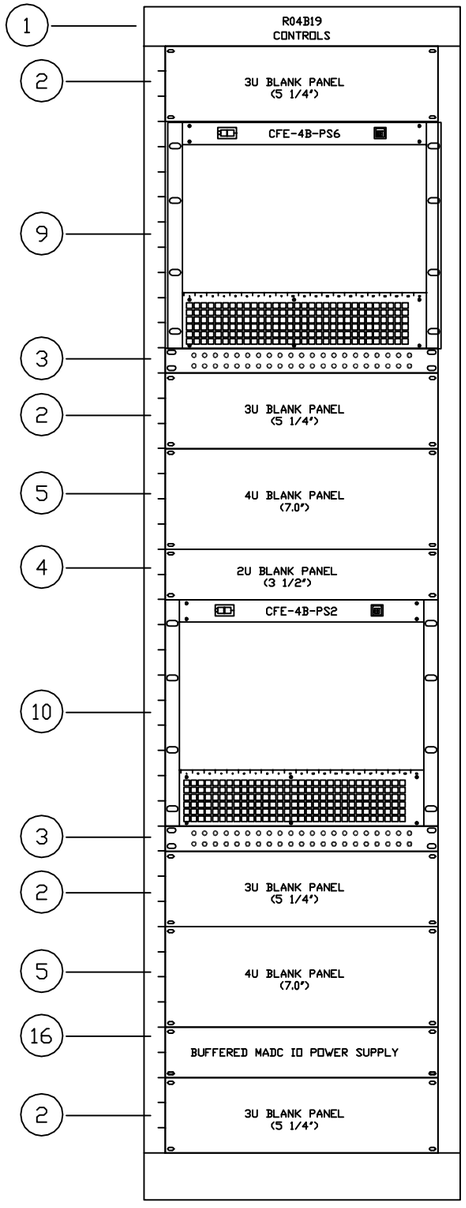
		1	NA	17	1U x 19" BLANK PANEL (PREMIER METAL APR-119-553)	X
		2	NA	16	2U x 19" BLANK PANEL (PREMIER METAL APR-319-553)	X
		1	NA	15	4U x 19" BLANK PANEL (PREMIER METAL APR-719-553)	X
		1	NA	14	MADC POWER SUPPLY	94028808
		AR	PANELS	13	10-32 x 1/2" BINDING HEAD MACHINE SCREWS	T-32276
		1	A	12	DUAL 1 x 4 MM COUPLER	58030008
		3	A,B,C	11	1x2/1x3 MM COUPLER	58030007
		8	A-H	10	BUFFERED MADC A/D I/O PANEL	94028670
		4	A,B,C,D	9	FANOUT ASSEMBLY	DD9-E2442
		1	NA	8	VME CHASSIS CFE-4B-PS1 ASSY.	94028526

INTERPRET IN GENERAL ACCORDANCE WITH ASME Y14.24M-1989	Q.A. CATEGORY A-3	DATE	BROOKHAVEN NATIONAL LABORATORY
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	DRAWN BY: Ed Koropsak	10/26/98	UPTON, N.Y. 11973
DECIMAL TOLERANCES .X ±.030 .XX ±.015 .XXX ±.005 ANGULAR TOLERANCE ± .5°	CHECKED BY:		RHIC CONTROLS
	DESIGN APPROVAL:		SERVICE BLDG. 1004B
	ENGINEER APPROVAL: R. MICHNOFF	10/26/98	RACK R4B07 ASSEMBLY
	SUPVR. APPROVAL:		SIZE D — 94028516 — REV. A
OUTSTANDING ECN: NA	FINISH: BREAK SHARP EDGES MAX. XX MIN. XX	NEXT ASSEMBLY	DRAWING NUMBER
			MATERIAL: ——— SCALE: NA WEIGHT: — SHEET 1 OF 1

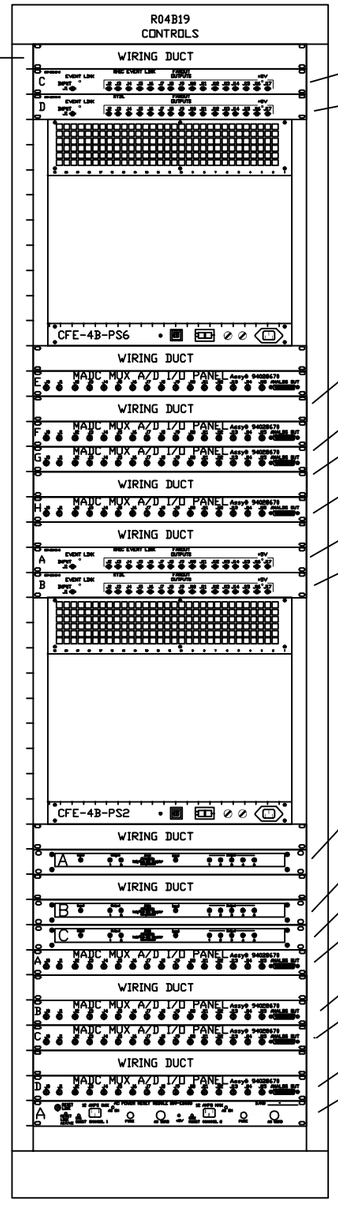
*AUTOCAD

REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

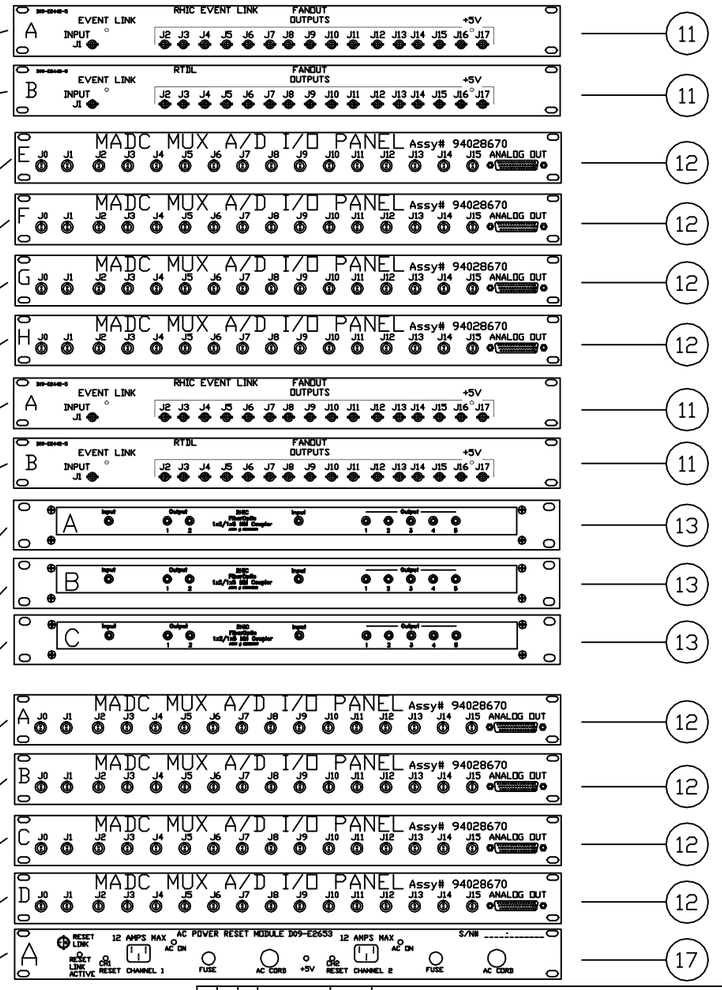
Controls, bnl 5/4/2004 4:21 PM 8517.dwg



FRONT VIEW



REAR VIEW



		1	A	17	AC POWER RESET MODULE	D09-E2653
		1	NA	16	BUFFERED MADC POWER SUPPLY	94028808
		AR	PANELS	15	10-32 x 1/2" BINDING HEAD MACHINE SCREWS	T-32276
		1	NA	14	VME CHASSIS CFE-4B-PS6 ASSY.	94028XXX
		3	A,B,C	13	1x2/1x5 MM COUPLER	58030007
		8	A-H	12	BUFFERED MADC A/D I/O PANEL	94028670
		4	A,B,C,D	11	FANOUT ASSEMBLY	D09-E2442
		1	NA	10	VME CHASSIS CFE-4B-PS2 ASSY.	94028528
		0	NA	9	9U x 19" BLANL PANEL (PREMIER METAL APR-)	
		18	NA	8	WIRING DUCT SNAP CLIPS 1.5"W (PANDUIT S1.5-C)	X
		9	NA	7	WIRING DUCT COVER 1.5"W (PANDUIT C1.5LG6)	X
		9	NA	6	WIRING DUCT 1.5"W x 4"D (PANDUIT E1.5X4LG6)	X
		2	NA	5	4U x 19" BLANK PANEL (PREMIER METAL APR-719-553)	
		1	NA	4	2U x 19" BLANK PANEL (PREMIER METAL APR-319-553)	
		2	NA	3	GROMMET PANEL	94028410
		4	NA	2	3U x 19" BLANK PANEL (PREMIER METAL ARP-519-553)	X
		1	NA	1	19" RACK, 77" H RACK SPACE	X
-3	-2	-1	REF DESIGNATOR	ITEM NO.	DESCRIPTION	MATL DWG NO./BNL NO.
QTY REQD						

INTERPRET IN GENERAL ACCORDANCE WITH ASME Y14.24M-1989

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

DECIMAL TOLERANCES
X ±.030
.XX ±.015
.XXX ±.005
ANGULAR TOLERANCE ± .5°

NA FINISH

BREAK SHARP EDGES MAX. XX MIN. XX

OUTSTANDING ECN

Q.A. CATEGORY A-3

DRAWN BY	Ed Koropsak	10/26/98
CHECKED BY		
DESIGN APPROVAL		
ENGINEER APPROVAL	R. MICHNOFF	10/26/98
SUPVR. APPROVAL		

NEXT ASSEMBLY

BROOKHAVEN NATIONAL LABORATORY
UPTON, N.Y. 11973
RHIC CONTROLS
SERVICE BLDG. 1004B

RACK R04B19 ASSEMBLY

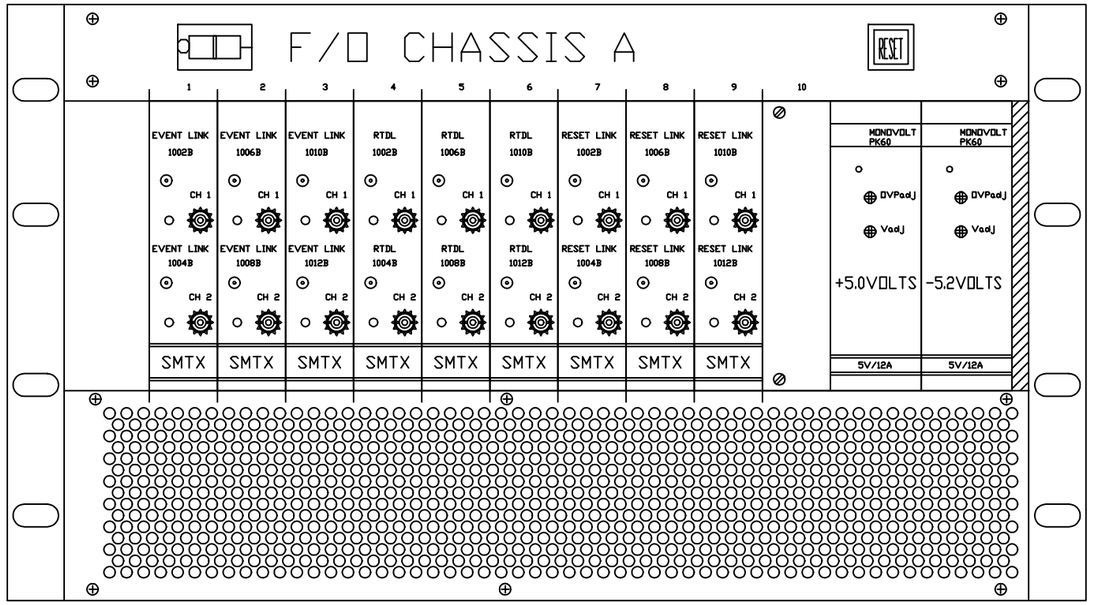
SIZE D | 94028517 | REV. A
DRAWING NUMBER

MATERIAL: ——— SCALE: NA WEIGHT: – SHEET 1 OF 1

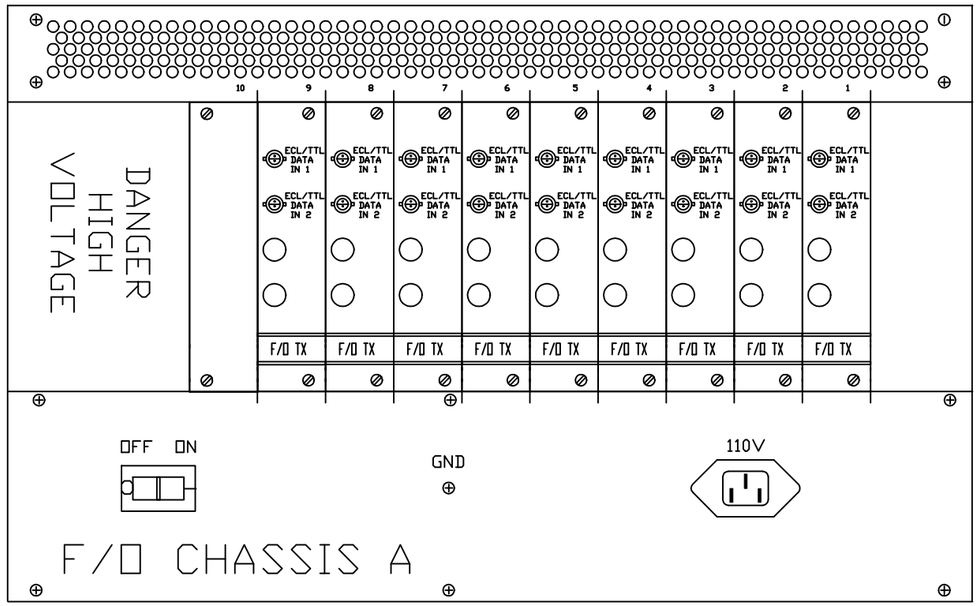
*AUTOCAD

REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

ACS, BNL 10/16/98 11:30 AM8518.dwg



FRONT VIEW



REAR VIEW

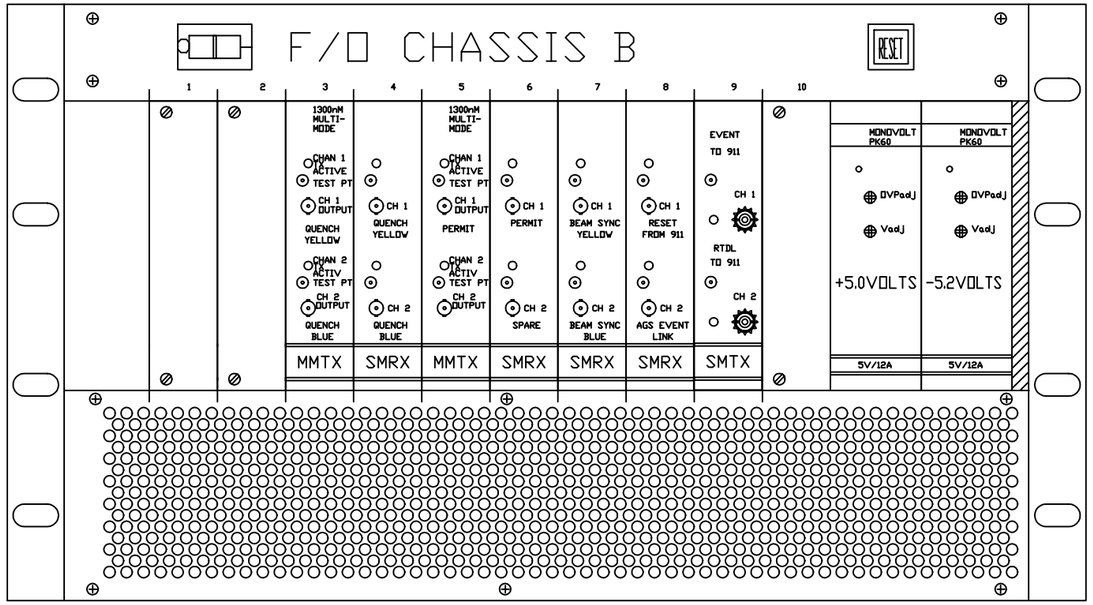
		2	ALL UNUSED	4	3U x 6HP BLANK PANEL (ELECTRO SPACE ESFE-3032)	X
		9	SLOT 1-9	3	3U FIBER OPTIC TRANSMITTER TRANSISTION MODULE, TTL	DD9-E2495-3
		9	SLOT 1-9	2	3U FIBER OPTIC TRANSMITTER MODULE, SINGLEMODE	94028103
		1	NA	1	3U FIBER OPTIC CHASSIS	94028261
-3	-2	-1	REF DESIGNATOR	ITEM NO.	DESCRIPTION	MAT'L DWG NO./BNL NO.
QTY REQD						

INTERPRET IN GENERAL ACCORDANCE WITH ASME Y14.24M-1989	Q.A. CATEGORY A-3	DATE	BROOKHAVEN NATIONAL LABORATORY
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	DRAWN BY: Phil Pape	11/21/97	UPTON, N.Y. 11973
DECIMAL TOLERANCES .X ±.030 .XX ±.015 .XXX ±.005 ANGULAR TOLERANCE ± .5°	CHECKED BY		RHIC CONTROLS
	DESIGN APPROVAL		BLDG 1004B RACK R4B03
	ENGINEER APPROVAL: R. MICHNOFF	11/21/97	F/O CHASSIS A ASSY.
	SUPVR. APPROVAL		SIZE D — 94028518 — REV. A
NA FINISH — BREAK SHARP EDGES MAX. XX MIN. XX	NEXT ASSEMBLY		DRAWING NUMBER
OUTSTANDING ECN			MATERIAL: ——— SCALE: NA WEIGHT: — SHEET 1 OF 1

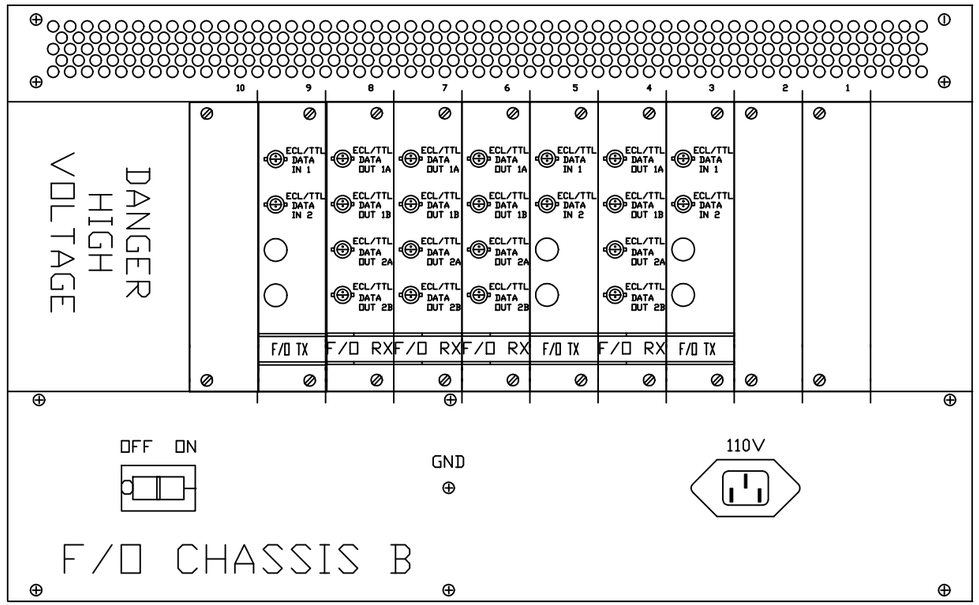
*AUTOCAD

REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

ACS, BNL 10/16/98 11:32 AM8519.dwg



FRONT VIEW



REAR VIEW

		1	SLOT 9	8	3U FIBER OPTIC TRANSMITTER MODULE, SINGLEMODE	94028103
		1	SLOT 7	7	3U FIBER OPTIC TRANSISTION MODULE, ECL	DD9-E2541-3
		8	ALL UNUSED	6	3U x 6HP BLANK PANEL (ELECTRO SPACE ESFE-3032)	X
		4	SLT 4,6,7,8	5	3U FIBER OPTIC RECEIVER TRANSISTION MODULE, TTL	DD9-E2542-3
		4	SLT 4,6,7,8	4	3U FIBER OPTIC RECEIVER MODULE, MULTIMODE/SINGLEMODE	94028101
		3	SLOT 3,5,9	3	3U FIBER OPTIC TRANSMITTER TRANSISTION MODULE, TTL	DD9-E2495-3
		2	SLOT 3,5	2	3U FIBER OPTIC TRANSMITTER MODULE, MULTIMODE	94028168
		1	NA	1	3U FIBER OPTIC CHASSIS	94028261
-3	-2	-1	REF DESIGNATOR	ITEM NO.	DESCRIPTION	MAT'L DWG NO./BNL NO.
QTY REQD						

INTERPRET IN GENERAL ACCORDANCE WITH ASME Y14.24M-1989

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

DECIMAL TOLERANCES
X ±.030
.XX ±.015
.XXX ±.005
ANGULAR TOLERANCE ± .5°

NA FINISH

BREAK SHARP EDGES
MAX. XX MIN. XX

OUTSTANDING ECN

Q.A. CATEGORY A-3

DRAWN BY	Phil Pape	11/21/97
CHECKED BY		
DESIGN APPROVAL		
ENGINEER APPROVAL	R. MICHNOFF	11/21/97
SUPVR. APPROVAL		

NEXT ASSEMBLY

BROOKHAVEN NATIONAL LABORATORY
UPTON, N.Y. 11973

RHIC CONTROLS

BLDG 1004B RACK R4B03

F/O CHASSIS B ASSY.

SIZE D | 94028519 | REV. A

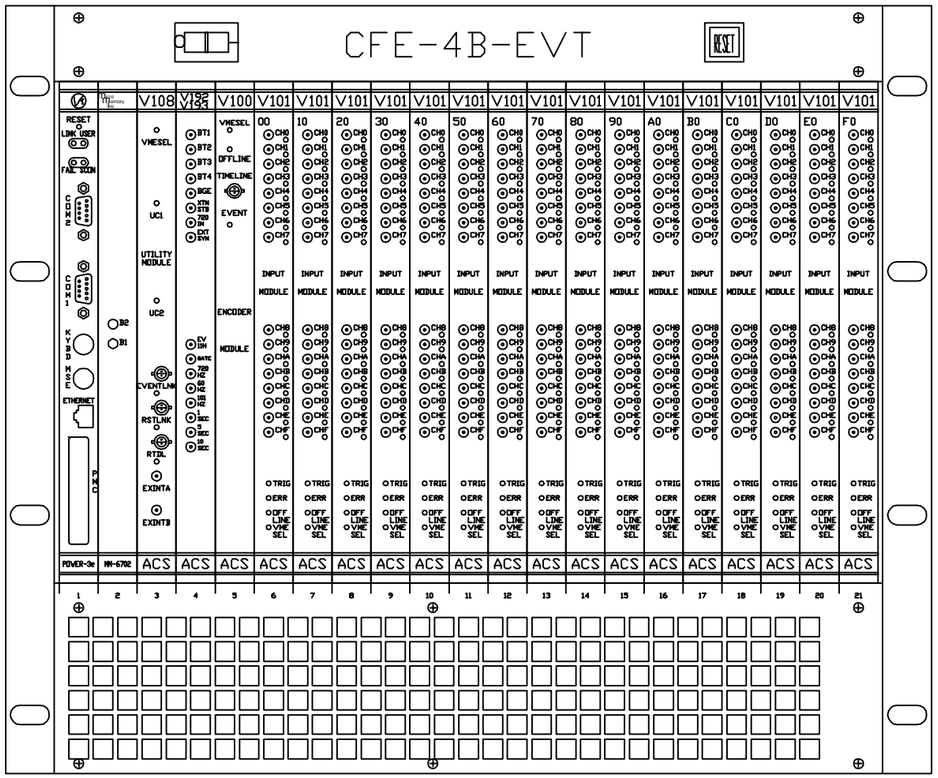
DRAWING NUMBER

MATERIAL: ——— | SCALE: NA | WEIGHT: – | SHEET 1 OF 1

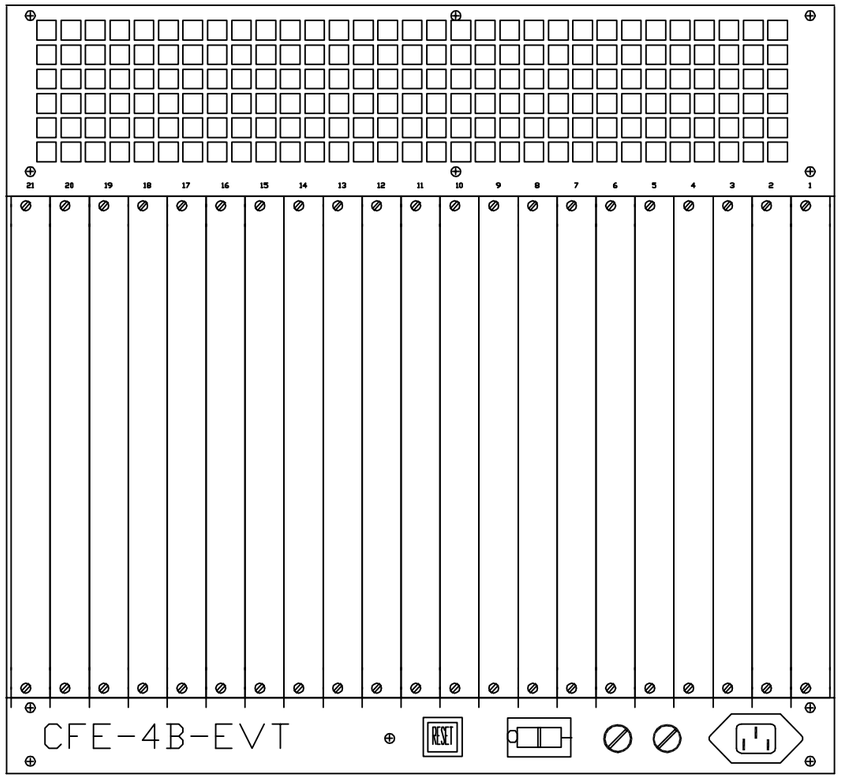
1 *AUTOCAD

REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

Controls, C-AD 4/22/2004 8:33 AM 8520.dwg



FRONT VIEW



REAR VIEW

NOTE:

1. ALL UNUSED SLOTS, FRONT AND REAR

2. SPECIAL P2 BACKPLANE INSTALLED AND NO OTHER BOARDS ARE TO BE USED IN SLOTS 4 TO 21 HARDWARE DAMAGE WILL RESULT!!!

-3	-2	-1	REF DESIGNATOR	ITEM NO.	DESCRIPTION	MAT'L DWG NO./PART NO.
		x				
		1	SLOT 4	9	V193 RHIC 720 Hz Module	94028240
		AR	SEE NOTE 1	8	VME BLANK PANEL (ELECTRO-SPACE ESFE-2985)	
		1	SLOT 2	7	MEMORY BOARD	MM-6702
		1	NOTE 2	6	P2 BACKPLANE	94028031
		16	SLOTS 6-21	5	V101 EVENT INPUT MODULES	94028050
		1	SLOT 5	4	V100 EVENT LINE ENCODER	94028046
		1	SLOT 3	3	V108 UTILITY MODULE	94028094
		1	SLOT 1	2	FRONT END COMPUTER	POWER-3e
		1	N/A	1	VME CHASSIS	RHIC-93008000

QTY REQD

INTERPRET IN GENERAL ACCORDANCE WITH ASME Y14.24M-1989

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

DECIMAL TOLERANCES .X ±.030 .XX ±.015 .XXX ±.005

ANGULAR TOLERANCE ± .5°

FINISH NA

BREAK SHARP EDGES MAX. XX MIN. XX

OUTSTANDING ECN

Q.A. CATEGORY A-3

DRAWN BY	Phil Pape	11/20/07
CHECKED BY		
DESIGN APPROVAL		
ENGINEER APPROVAL	R. MICHNOFF	11/20/07
SUPVR. APPROVAL		

NEXT ASSEMBLY

BROOKHAVEN NATIONAL LABORATORY
UPTON, N.Y. 11973
RHIC CONTROLS
SERVICE BLDG 1004B
VME CHASSIS CFE-4B-EVT

SIZE D | 94028520 | REV. A

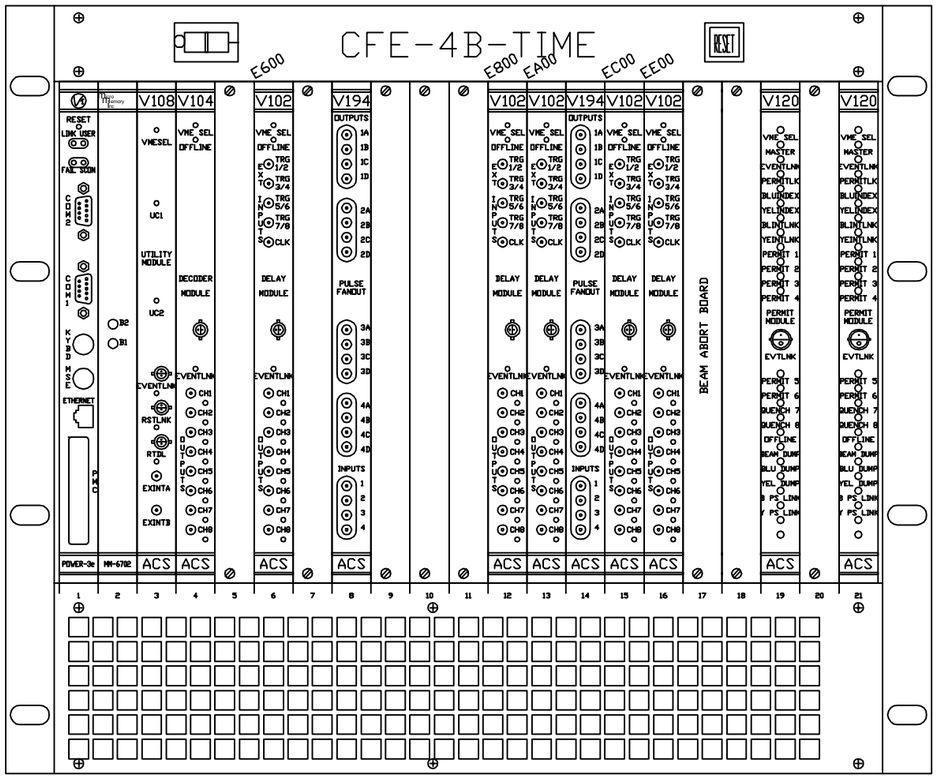
DRAWING NUMBER

MATERIAL: ——— SCALE: NA WEIGHT: – SHEET 1 OF 1

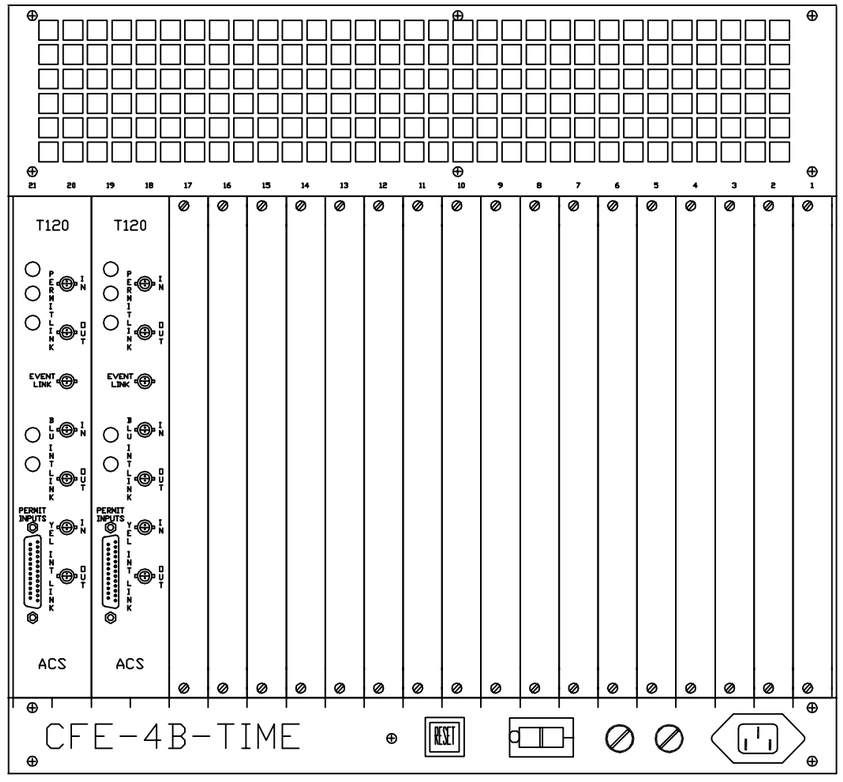
*AUTOCAD

REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

Controls, C-AD 4/22/2004 8:55 AM 8521.dwg



FRONT VIEW



REAR VIEW

NOTE:

1. ALL UNUSED SLOTS, FRONT AND REAR

1	SLOT 17	11	BEAM ABORT BOARD	???
2	SLOT 19,21	10	T120 PERMIT SYSTEM TRANSITION MODULE	94028199-2
2	SLOT 19,21	9	V120 PERMIT SYSTEM MODULE	94028077
x	SEE NOTE 1	8	VME BLANK PANEL (ELECTRO-SPACE ESFE-2985)	
1	SLOT 4	7	V104 EVENT DECODER MODULE	94028175
2	SLOTS 8,14	6	V194 PULSE FANOUT MODULE	94028196
3	SL6,12,13	5	V102 DELAY MODULES	94028072
2	SL 15,16	5	V102 DELAY MODULES	94028072
1	SLOT 3	4	V108 UTILITY MODULE	94028094
1	SLOT 2	3	MEMORY BOARD	MM-6702
1	SLOT 1	2	FRONT END COMPUTER	POWER 3e
1	N/A	1	VME CHASSIS	RHIC-93008000
-3 -2 -1 QTY REQD	REF DESIGNATOR	ITEM NO.	DESCRIPTION	MAT'L SPEC NO./DWG NO./PART NO.

INTERPRET IN GENERAL ACCORDANCE WITH ASME Y14.24M-1989

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

DECIMAL TOLERANCES .X ±.030 .XX ±.015 .XXX ±.005 ANGULAR TOLERANCE ± .5°

NA FINISH

BREAK SHARP EDGES MAX. XX MIN. XX

OUTSTANDING ECN

Q.A. CATEGORY A-3

DRAWN BY	Phil Pape	11/20/97
CHECKED BY		
DESIGN APPROVAL		
ENGINEER APPROVAL	R. MICHNOFF	11/20/97
SUPVR. APPROVAL		

NEXT ASSEMBLY

BROOKHAVEN NATIONAL LABORATORY
UPTON, N.Y. 11973
RHIC CONTROLS
SERVICE BLDG 1004B

VME CHASSIS CFE-4B-TIME

SIZE D | 94028521 | REV. A

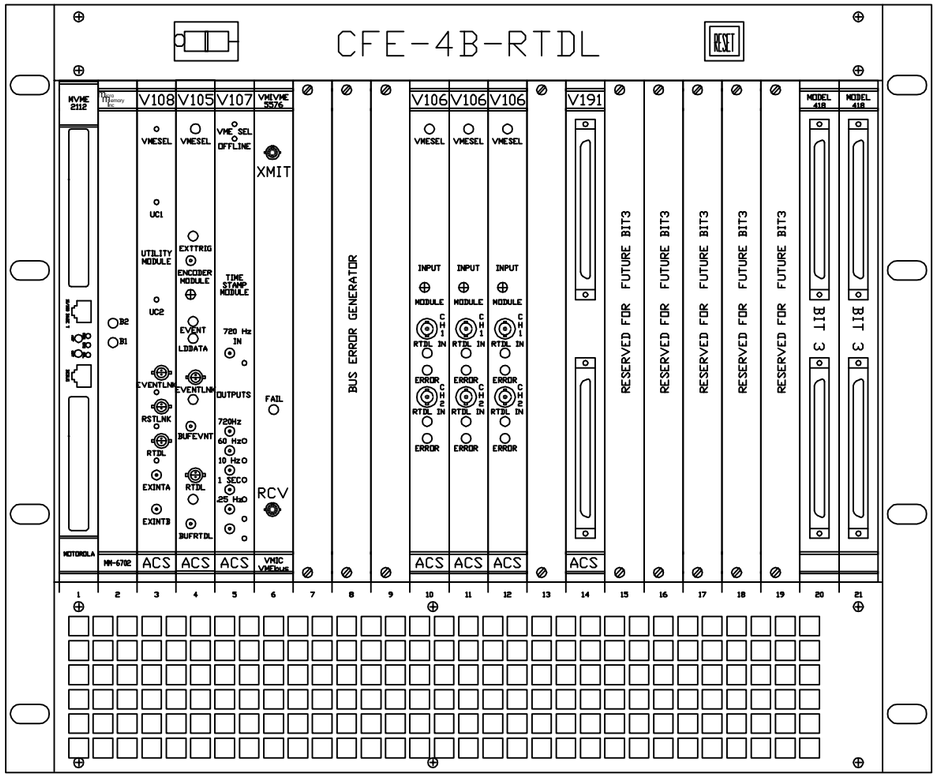
DRAWING NUMBER

MATERIAL: ——— SCALE: NA WEIGHT: — SHEET 1 OF 1

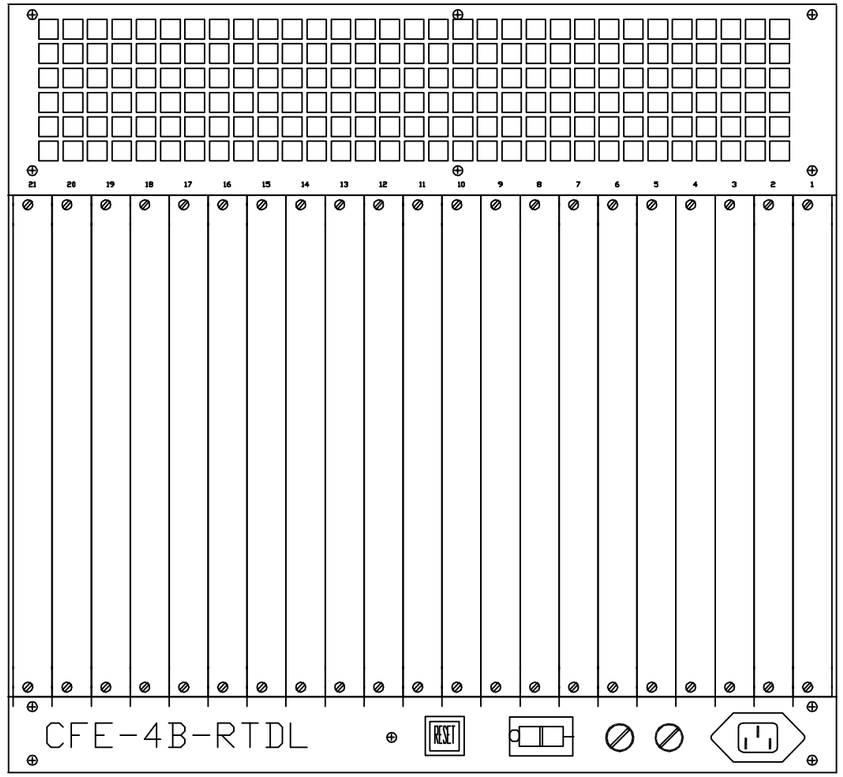
*AUTOCAD

REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

Controls, C-AD 4/22/2004 9:00 AM 8522.dwg



FRONT VIEW



REAR VIEW

NOTE:

1. ALL UNUSED SLOTS, FRONT AND REAR

2. SPECIAL P2 BACKPLANE INSTALLED AND NO OTHER BOARDS ARE TO BE USED IN SLOTS 4 TO 21 HARDWARE DAMAGE WILL RESULT!!!

-3	-2	-1	REF DESIGNATOR	ITEM NO.	DESCRIPTION	MAT'L DWG NO./PN NO.
		1	SLOT 6	13	REFLECTIVE MEMORY BOARD	VMIVME 5576
		1	SLOT 8	12	BUS ERROR GENERATOR	????
		1	NOTE 2	11	RTDL BACLPLANE ASSEMBLY	94028157
		x	SEE NOTE 1	10	VME BLANK PANEL (ELECTRO-SPACE ESFE-2985)	
		1	SLOT 2	9	MEMORY BOARD	MM-6702
		2	SLOT 20,21	8	BIT 3 BUS EXTENDER	MODEL 418
		1	SLOT 14	7	V191-1 RTDL BUS EXTENDER	94028409
		3	SLOT 10-12	6	V106 RTDL INPUT MODULE	94028042
		1	SLOT 4	5	V105 RTDL ENCODER MODULE	94028068
		1	SLOT 5	4	V107 TIME STAMP MODULE	94028632
		1	SLOT 3	3	V108 UTILITY MODULE	94028094
		1	SLOT 1	2	FRONT END COMPUTER, MOTOROLA	2112-1
		1	N/A	1	VME CHASSIS RHIC-93008000 WITH RTDL BACKPLANE	94028XXX

QTY REQD

INTERPRET IN GENERAL ACCORDANCE WITH ASME Y14.24M-1989

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

DECIMAL TOLERANCES .X ±.030 .XX ±.015 .XXX ±.005 ANGULAR TOLERANCE ± .5°

NA FINISH

BREAK SHARP EDGES MAX. XX MIN. XX

OUTSTANDING ECN

Q.A. CATEGORY A-3

DRAWN BY PAPE 8/1/2002

CHECKED BY

DESIGN APPROVAL

ENGINEER APPROVAL H. HARTMANN

SUPVR. APPROVAL

NEXT ASSEMBLY

BROOKHAVEN NATIONAL LABORATORY
UPTON, N.Y. 11973
RHIC CONTROLS
SERVICE BLDG 1004B

VME CHASSIS CFE-4B-RTDL

SIZE D | 94028522 | REV. A

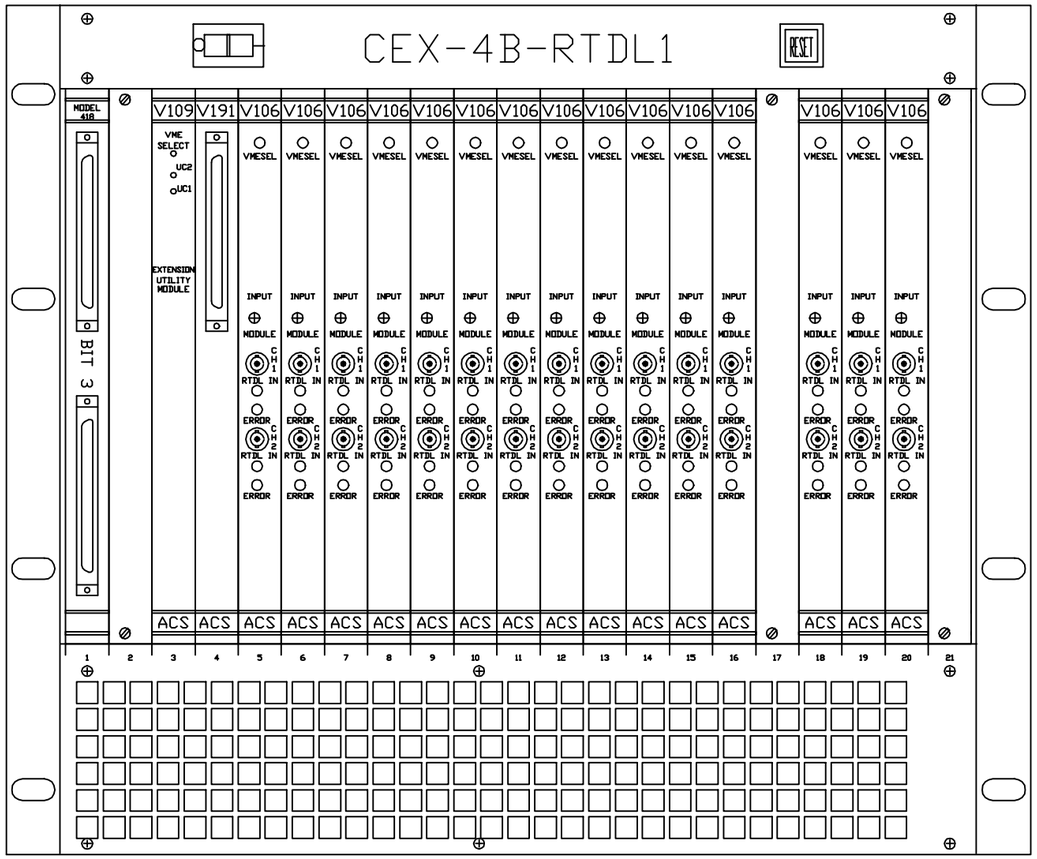
DRAWING NUMBER

MATERIAL: ——— SCALE: NA WEIGHT: – SHEET 1 OF 1

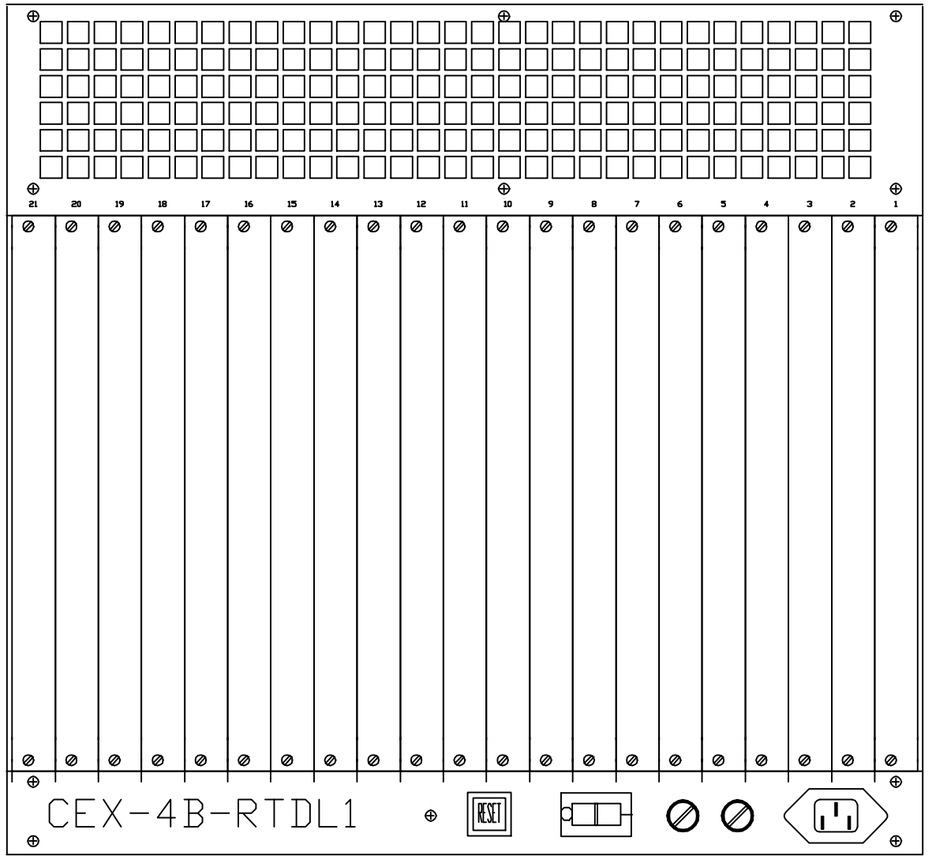
*AUTOCAD

REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

ACS, BNL 1/28/00 1:26 PM 8523.dwg



FRONT VIEW



REAR VIEW

NOTE:

1. ALL UNUSED SLOTS, FRONT AND REAR

2. SPECIAL P2 BACKPLANE INSTALLED AND NO OTHER BOARDS ARE TO BE USED IN SLOTS 4 TO 21 HARDWARE DAMAGE WILL RESULT!!!

-3	-2	-1	REF DESIGNATOR	ITEM NO.	DESCRIPTION	MAT'L DWG NO./BNL NO.
		x				
		x				
		x	SEE NOTE 1	8	VME BLANK PANEL (ELECTRO-SPACE ESFE-2985)	
		-		7		
		1	NOTE 2	6	RTDL BACKPLANE ASSEMBLY	94028157
		15	5-16,18-20	5	V106 RTDL INPUT MODULES REV E OR HIGHER	94028042
		1	SLOT 4	4	V191-2 RTDL BUS EXTENDER	94028409
		1	SLOT 3	3	V109 UTILITY MODULE	94028152
		1	SLOT 1	2	BIT 3 BUS EXTENDER	MODEL 418
		1	N/A	1	VME CHASSIS RHIC-93008000 WITH RTDL BACKPLANE	94028XXX

QTY REQD

INTERPRET IN GENERAL ACCORDANCE WITH ASME Y14.24M-1989

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

DECIMAL TOLERANCES .X ±.030 .XX ±.015 .XXX ±.005

ANGULAR TOLERANCE ± .5°

OUTSTANDING ECN

NA FINISH

BREAK SHARP EDGES MAX. XX MIN. XX

Q.A. CATEGORY A-3

DRAWN BY	Ed Koropsak	9/29/98
CHECKED BY		
DESIGN APPROVAL		
ENGINEER APPROVAL	R. MICHNOFF	9/28/98
SUPVR. APPROVAL		

NEXT ASSEMBLY

BROOKHAVEN NATIONAL LABORATORY
UPTON, N.Y. 11973
RHIC CONTROLS
SERVICE BLDG 1004B

VME CHASSIS CEX-4B-RTDL1

SIZE D | 94028523 | REV. A

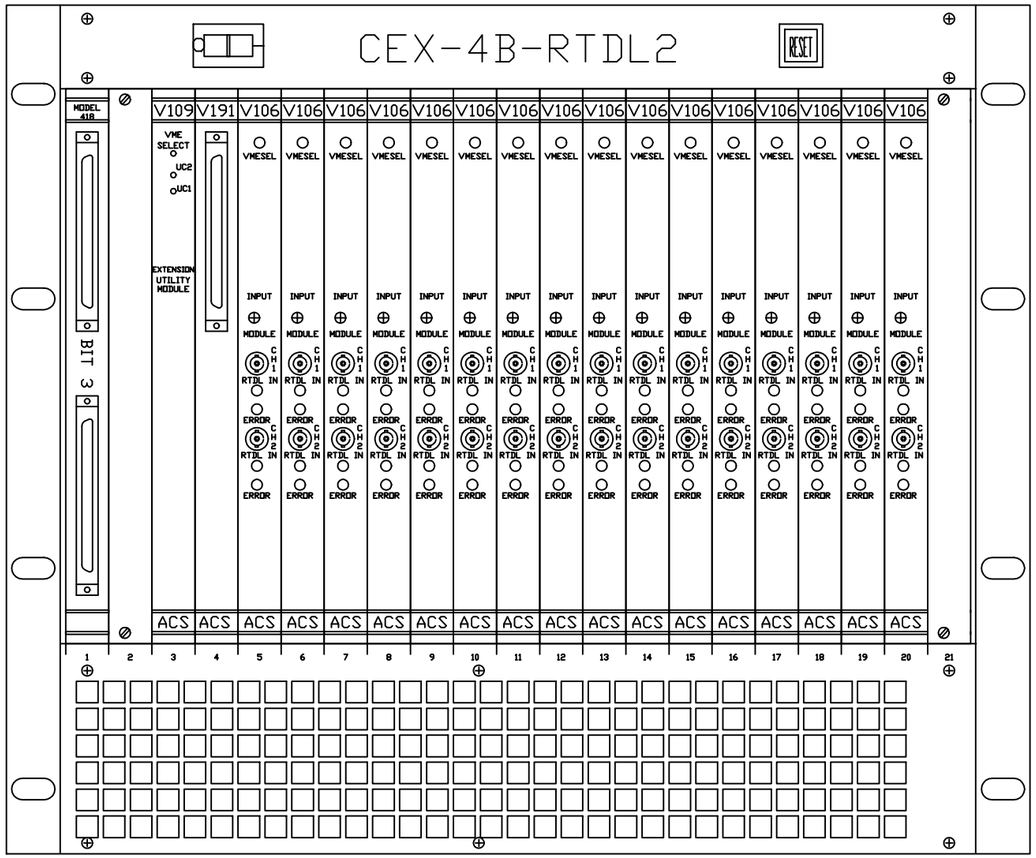
DRAWING NUMBER

MATERIAL: ——— SCALE: NA WEIGHT: — SHEET 1 OF 1

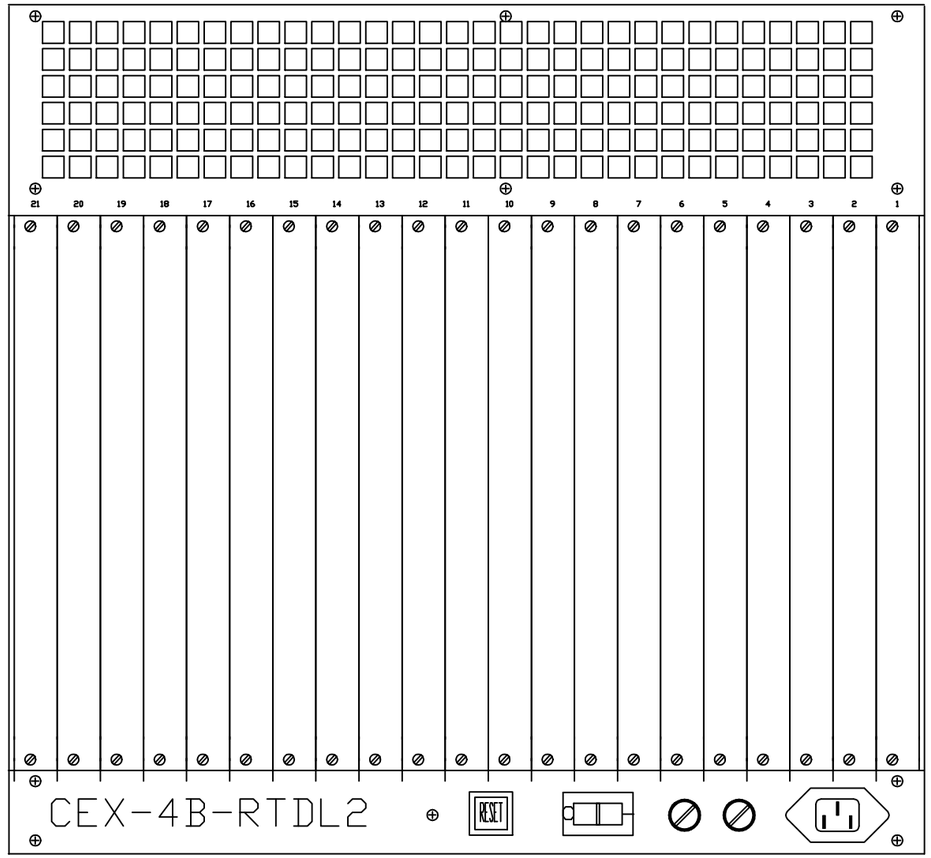
*AUTOCAD

REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

C-A, BNL 5/8/01 11:08 AM 8524.dwg



FRONT VIEW



REAR VIEW

NOTE:

1. ALL UNUSED SLOTS, FRONT AND REAR

2. SPECIAL P2 BACKPLANE INSTALLED AND NO OTHER BOARDS ARE TO BE USED IN SLOTS 4 TO 21 HARDWARE DAMAGE WILL RESULT!!!

-3	-2	-1	REF DESIGNATOR	ITEM NO.	DESCRIPTION	MAT'L DWG NO./BNL NO.
		-		10		
		3	SL 18-20	9	V106 RTDL INPUT MODULES REV E OR HIGHER	94028042
		x	SEE NOTE 1	8	VME BLANK PANEL (ELECTRO-SPACE ESFE-2985)	
		4	SL 12-15	7	V106 RTDL INPUT MODULES REV E OR HIGHER	94028042
		3	SL 11,16,17	6	V106 RTDL INPUT MODULES REV D OR HIGHER	94028042
		6	SLOT 5-10	5	V106 RTDL INPUT MODULES REV E OR HIGHER	94028042
		1	SLOT 4	4	V191-2 RTDL BUS EXTENDER	94028409
		1	SLOT 3	3	V109 EXTENSION UTILITY MODULE	94028152
		1	SLOT 1	2	BIT 3 BUS EXTENDER	MODEL 418
		1	N/A	1	VME CHASSIS RHIC-93008000 WITH RTDL BACKPLANE	94028XXX

QTY REQD

INTERPRET IN GENERAL ACCORDANCE WITH ASME Y14.24M-1989

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

DECIMAL TOLERANCES .X ±.030 .XX ±.015 .XXX ±.005

ANGULAR TOLERANCE ± .5°

NA FINISH

BREAK SHARP EDGES MAX. XX MIN. XX

OUTSTANDING ECN

Q.A. CATEGORY A-3

DRAWN BY	Ed Koropsak	9/29/98
CHECKED BY		
DESIGN APPROVAL		
ENGINEER APPROVAL	R. MICHNOFF	9/29/98
SUPVR. APPROVAL		

NEXT ASSEMBLY

BROOKHAVEN NATIONAL LABORATORY
UPTON, N.Y. 11973
RHIC CONTROLS
SERVICE BLDG 1004B

VME CHASSIS CEX-4B-RTDL2

SIZE D | 94028524 | REV. A

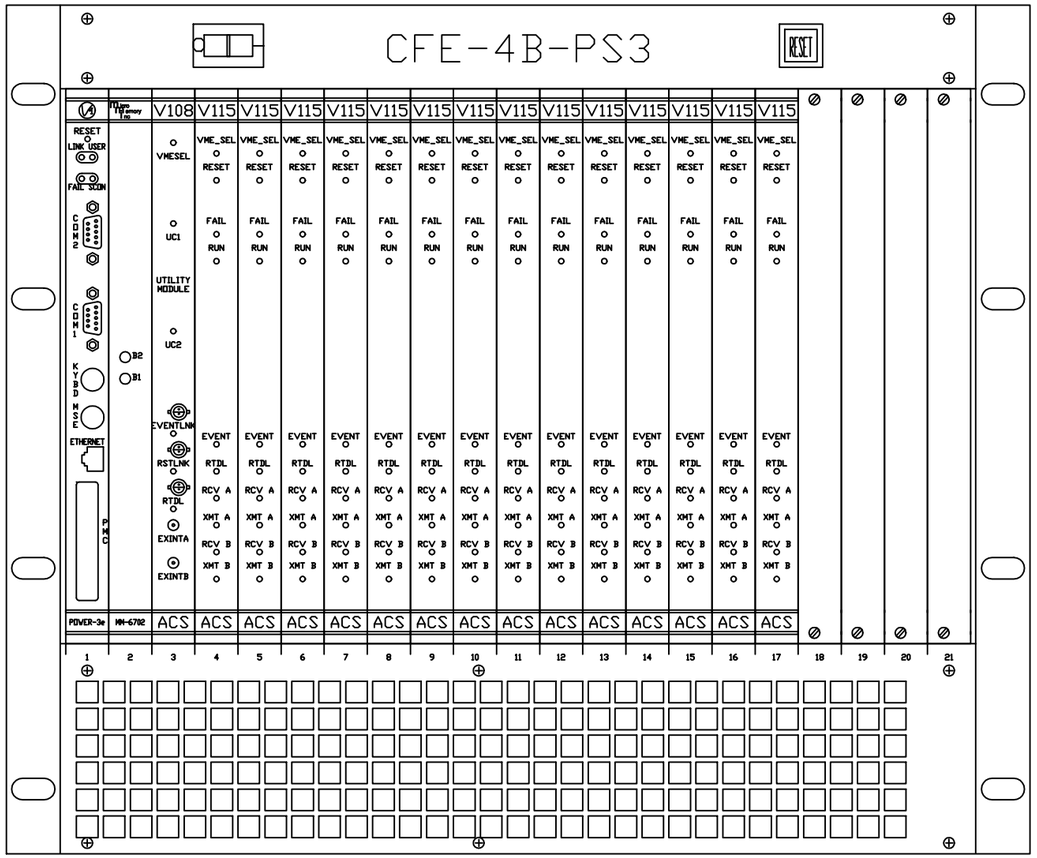
DRAWING NUMBER

MATERIAL: ——— SCALE: NA WEIGHT: – SHEET 1 OF 1

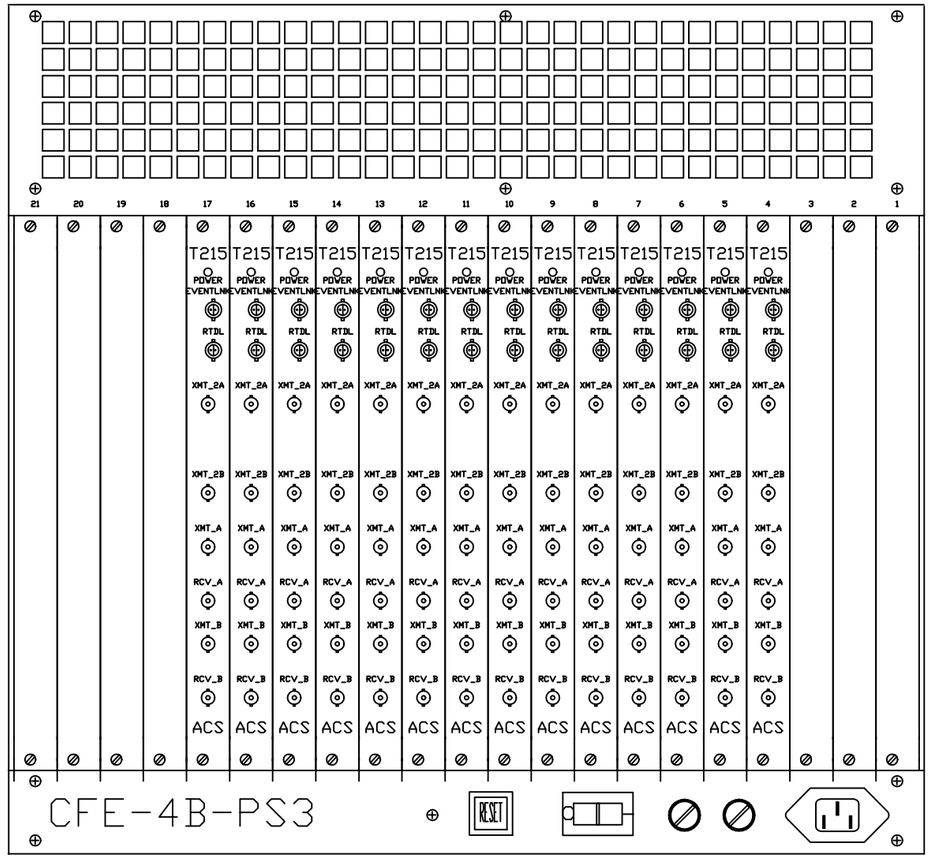
*AUTOCAD

REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

BNL, BNL 5/5/00 11:07 AM 8525.dwg



FRONT VIEW



REAR VIEW

NOTE:

1. ALL UNUSED SLOTS, FRONT AND REAR

QTY REQD -3	QTY REQD -2	QTY REQD -1	REF DESIGNATOR	ITEM NO.	DESCRIPTION	MAT'L DWG NO./BNL NO.
		x	SEE NOTE 1	8	VME BLANK PANEL (ELECTRO-SPACE ESFE-2985)	
		14	SLOT 4-17	7	T215-2 WAVEFORM GENERATOR TRANSITION MODULE	94028441-2
		14	SLOT 4-17	6	V115 WAVEFORM GENERATOR MODULE	94028108
		1	SLOT 2	5	MEMORY BOARD	MM-6702
		-		4		
		1	SLOT 3	3	V108 UTILITY MODULE	94028094
		1	SLOT 1	2	FRONT END COMPUTER	Power 3e
		1	N/A	1	VME CHASSIS	RHIC-93008000

INTERPRET IN GENERAL ACCORDANCE WITH ASME Y14.24M-1989

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

DECIMAL TOLERANCES .X ±.030 .XX ±.015 .XXX ±.005

ANGULAR TOLERANCE ± .5°

OUTSTANDING ECN

FINISH: NA

BREAK SHARP EDGES MAX. XX MIN. XX

Q.A. CATEGORY A-3

DRAWN BY	Ed Koropsak	1/15/98
CHECKED BY		
DESIGN APPROVAL		
ENGINEER APPROVAL	R. MICHNOFF	1/15/98
SUPVR. APPROVAL		

NEXT ASSEMBLY

BROOKHAVEN NATIONAL LABORATORY
UPTON, N.Y. 11973
RHIC CONTROLS
SERVICE BLDG 1004B

VME CHASSIS CFE-4B-PS3

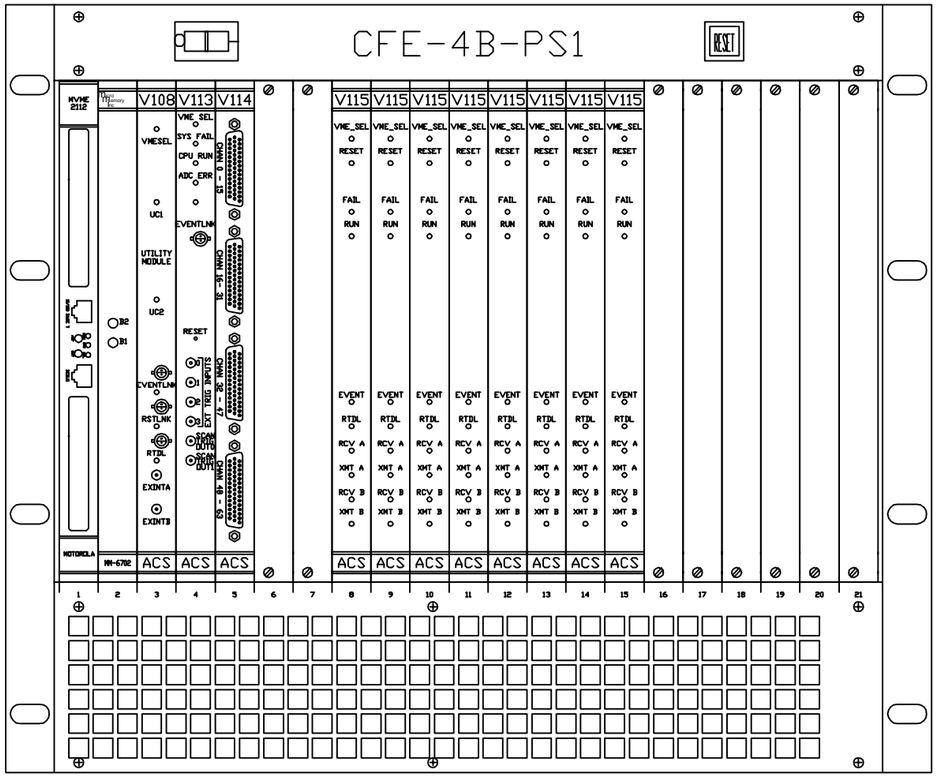
SIZE D | DRAWING NUMBER 94028525 | REV. A

MATERIAL: ——— SCALE: NA WEIGHT: – SHEET 1 OF 1

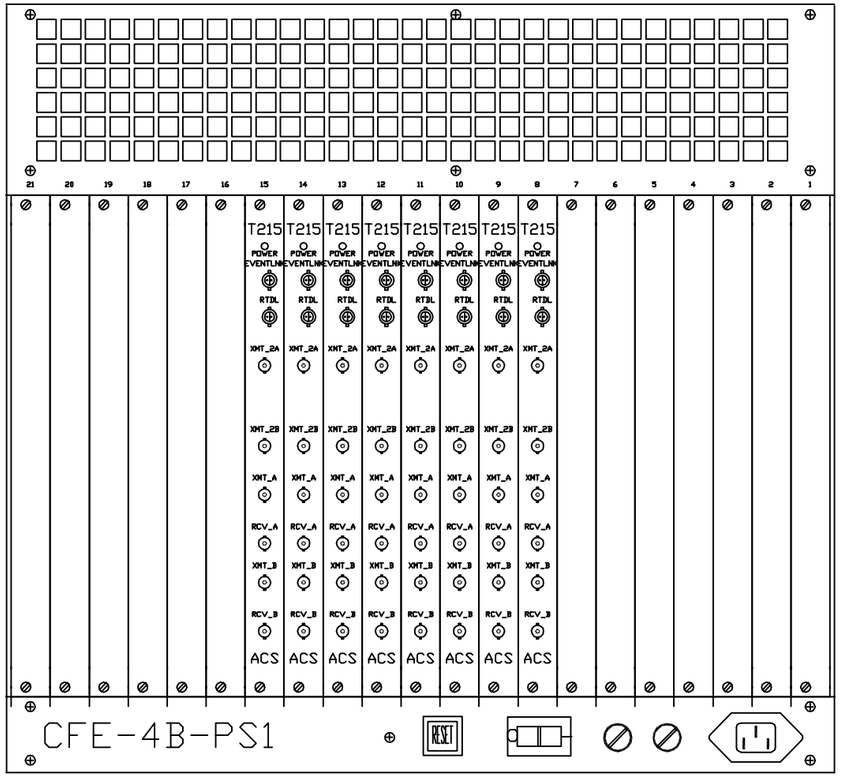
*AUTOCAD

REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

Controls, C-AD 4/22/2004 9:12 AM 8526.dwg



FRONT VIEW



REAR VIEW

NOTE:

1. ALL UNUSED SLOTS, FRONT AND REAR

QTY REQD	REF DESIGNATOR	ITEM NO.	DESCRIPTION	MAT'L DWG NO./PNL NO.
AR	SEE NOTE 1	10	VME BLANK PANEL (ELECTRO-SPACE ESFE-2985)	
1	SLOT 2	9	MEMORY BOARD	MM-6702
6	SL 8-12,14	8	T215-2 WAVEFORM GENERATOR TRANSITION MODULE	94028441-2
5	SL 13,15-18	7	T215-1 WAVEFORM GENERATOR TRANSITION MODULE	94028441-1
2	SLOT 13,15	6	V115 WAVEFORM GENERATOR MODULE	94028108
1	SLOT 5	5	V114 MADC A/D CONVERTER MODULE	94028226
1	SLOT 4	4	V113 MADC CONTROLLER MODULE	94028140
1	SLOT 3	3	V108 UTILITY MODULE	94028094
1	SLOT 1	2	FRONT END COMPUTER, MOTOROLA	2112-1
1	N/A	1	VME CHASSIS	RHIC-93008000

INTERPRET IN GENERAL ACCORDANCE WITH ASME Y14.24M-1989

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

DECIMAL TOLERANCES .X ±.030 .XX ±.015 .XXX ±.005 ANGULAR TOLERANCE ± .5°

FINISH: NA

BREAK SHARP EDGES MAX. XX MIN. XX

OUTSTANDING ECN

NEXT ASSEMBLY

Q.A. CATEGORY A-3

DRAWN BY	Ed Koropsak	1/15/98
CHECKED BY		
DESIGN APPROVAL		
ENGINEER APPROVAL	R. MICHNOFF	1/15/98
SUPVR. APPROVAL		

DATE

BROOKHAVEN NATIONAL LABORATORY
UPTON, N.Y. 11973
RHIC CONTROLS
SERVICE BLDG 1004B

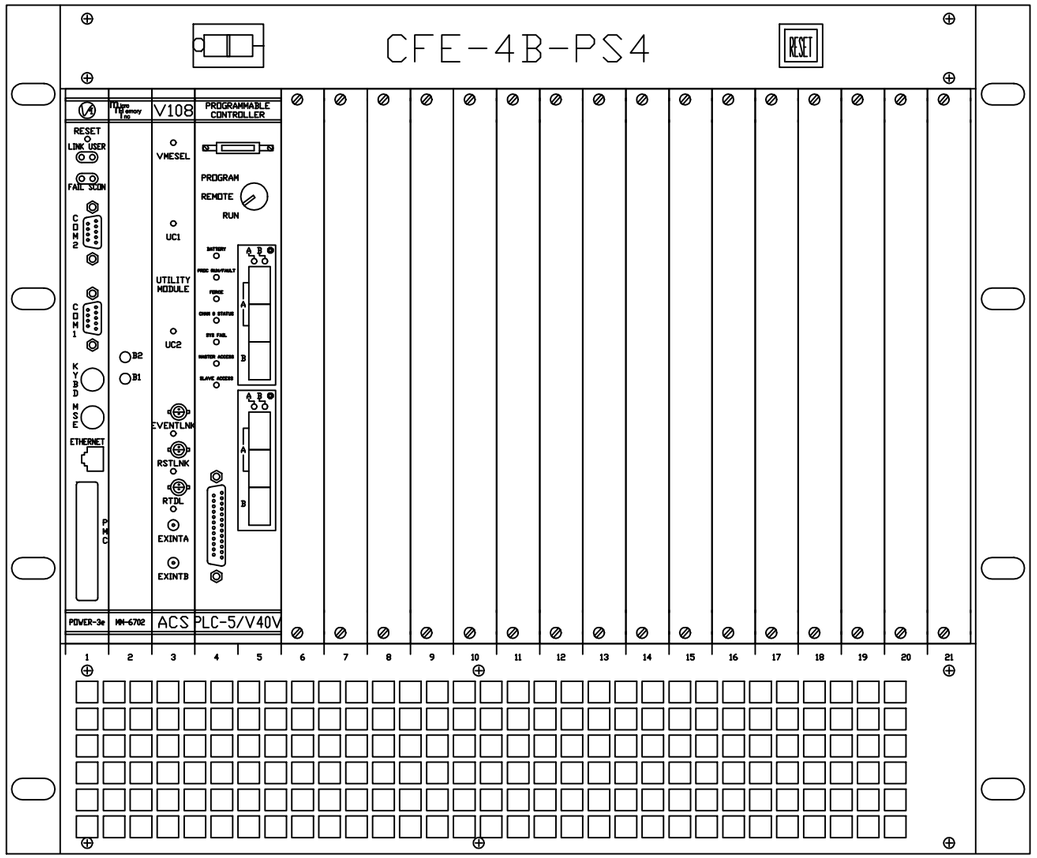
VME CHASSIS CFE-4B-PS1

SIZE D | DRAWING NUMBER 94028526 | REV. A

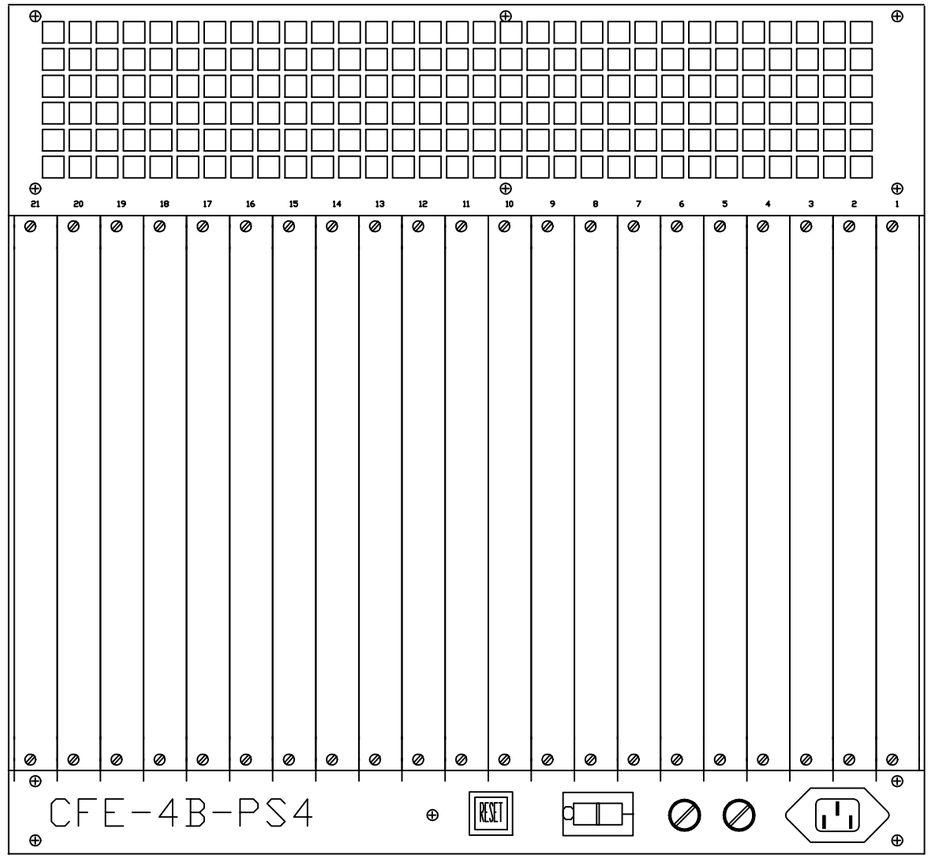
MATERIAL: ——— SCALE: NA WEIGHT: – SHEET 1 OF 1

8 7 6 5 4 3 2 1 *AUTOCAD

REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.
C-A, BNL	3/20/01 11:41 AM	8527.dwg				



FRONT VIEW



REAR VIEW

NOTE:

1. ALL UNUSED SLOTS, FRONT AND REAR

-3 QTY REQD	-2 QTY REQD	-1 QTY REQD	REF DESIGNATOR	ITEM NO.	DESCRIPTION	MAT'L DWG NO./BNL NO.
		x	SEE NOTE 1	7	VME BLANK PANEL (ELECTRO-SPACE ESFE-2985)	
		1	SLOT4,5	6	ALLEN BRADLEY PLC	PLC-5V/40V
		1	SLOT 2	5	MEMORY BOARD	MM-6702
				4		
		1	SLOT 3	3	V108 UTILITY MODULE	94028094
		1	SLOT 1	2	FRONT END COMPUTER	Power 3e
		1	N/A	1	VME CHASSIS	RHIC-93008000

INTERPRET IN GENERAL ACCORDANCE WITH ASME Y14.24M-1989

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

DECIMAL TOLERANCES
.X ±.030
.XX ±.015
.XXX ±.005
ANGULAR TOLERANCE ± .5°

OUTSTANDING ECN

NA FINISH

BREAK SHARP EDGES
MAX. XX MIN. XX

Q.A. CATEGORY	A-3	DATE
DRAWN BY	Venegas	3/28/98
CHECKED BY		
DESIGN APPROVAL		
ENGINEER APPROVAL		
SUPVR. APPROVAL		
NEXT ASSEMBLY		

BROOKHAVEN NATIONAL LABORATORY
UPTON, N.Y. 11973
RHIC CONTROLS
SERVICE BLDG 1004B

VME CHASSIS CFE-4B-PS4

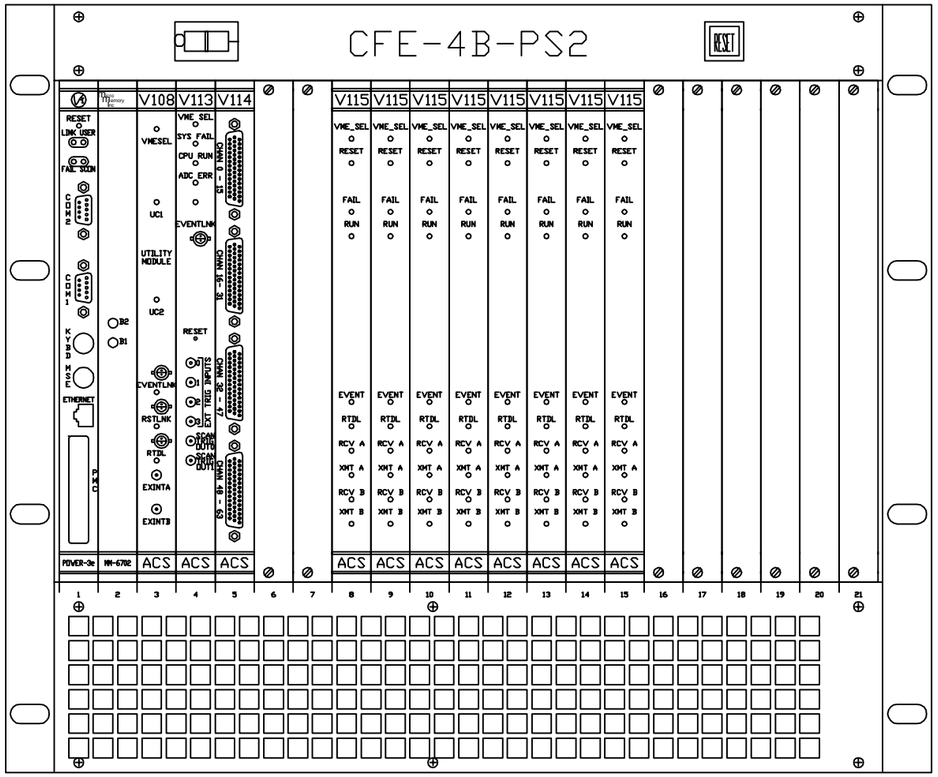
SIZE D | 994028527 DRAWING NUMBER | REV. A

MATERIAL: ——— | SCALE: NA | WEIGHT: – | SHEET

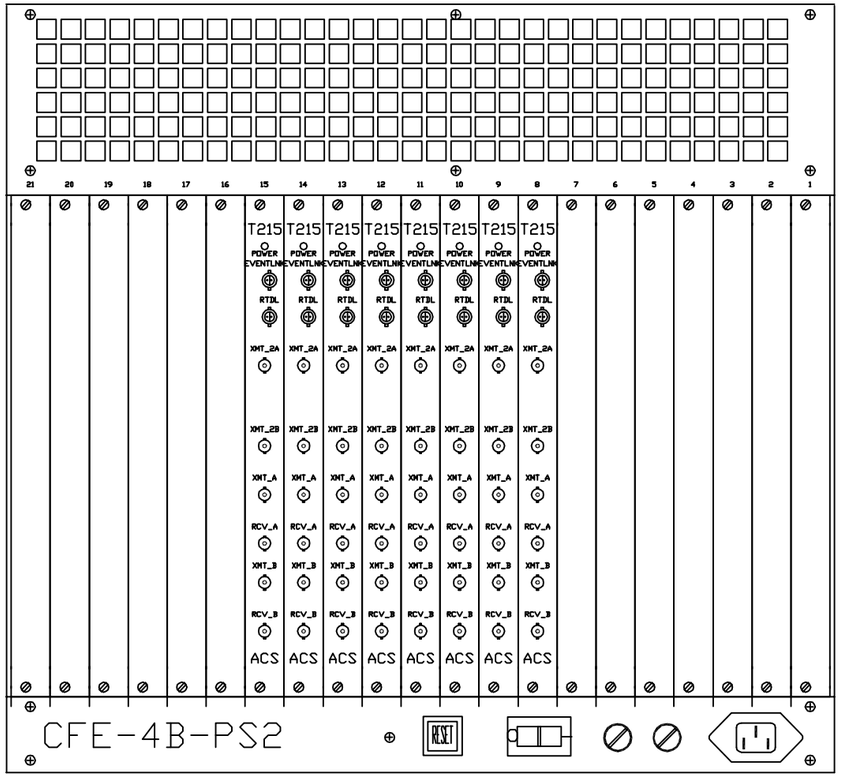
*AUTOCAD

REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

Controls, C-AD 4/22/2004 9:19 AM 8528.dwg



FRONT VIEW



REAR VIEW

NOTE:

1. ALL UNUSED SLOTS, FRONT AND REAR

-3	-2	-1	REF DESIGNATOR	ITEM NO.	DESCRIPTION	MAT'L DWG NO./ENG. NO.
		AR	SEE NOTE 1	10	VME BLANK PANEL (ELECTRO-SPACE ESFE-2985)	
		1	SLOT 2	9	MEMORY BOARD	MM-6702
		6	SL 8-12,14	8	T215-2 WAVEFORM GENERATOR TRANSITION MODULE	94028441-2
		2	SL 13,15	7	T215-1 WAVEFORM GENERATOR TRANSITION MODULE	94028441-1
		8	SLOT 8-15	6	V115 WAVEFORM GENERATOR MODULE	94028108
		1	SLOT 5	5	V114 MADC A/D CONVERTER MODULE	94028226
		1	SLOT 4	4	V113 MADC CONTROLLER MODULE	94028140
		1	SLOT 3	3	V108 UTILITY MODULE	94028094
		1	SLOT 1	2	FRONT END COMPUTER	POWER 3e
		1	N/A	1	VME CHASSIS	RHIC-93008000

CITY REQD

INTERPRET IN GENERAL ACCORDANCE WITH ASME Y14.24M-1989

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

DECIMAL TOLERANCES .X ±.030 .XX ±.015 .XXX ±.005

ANGULAR TOLERANCE ± .5°

OUTSTANDING ECN: NA

FINISH

BREAK SHARP EDGES MAX. XX MIN. XX

Q.A. CATEGORY A-3

		DATE
DRAWN BY	Ed Koropsak	1/15/98
CHECKED BY		
DESIGN APPROVAL		
ENGINEER APPROVAL	R. MICHNOFF	1/15/98
SUPVR. APPROVAL		

NEXT ASSEMBLY

BROOKHAVEN NATIONAL LABORATORY
UPTON, N.Y. 11973
RHIC CONTROLS
SERVICE BLDG 1004B

VME CHASSIS CFE-4B-PS2

SIZE D | 94028528 | REV. A

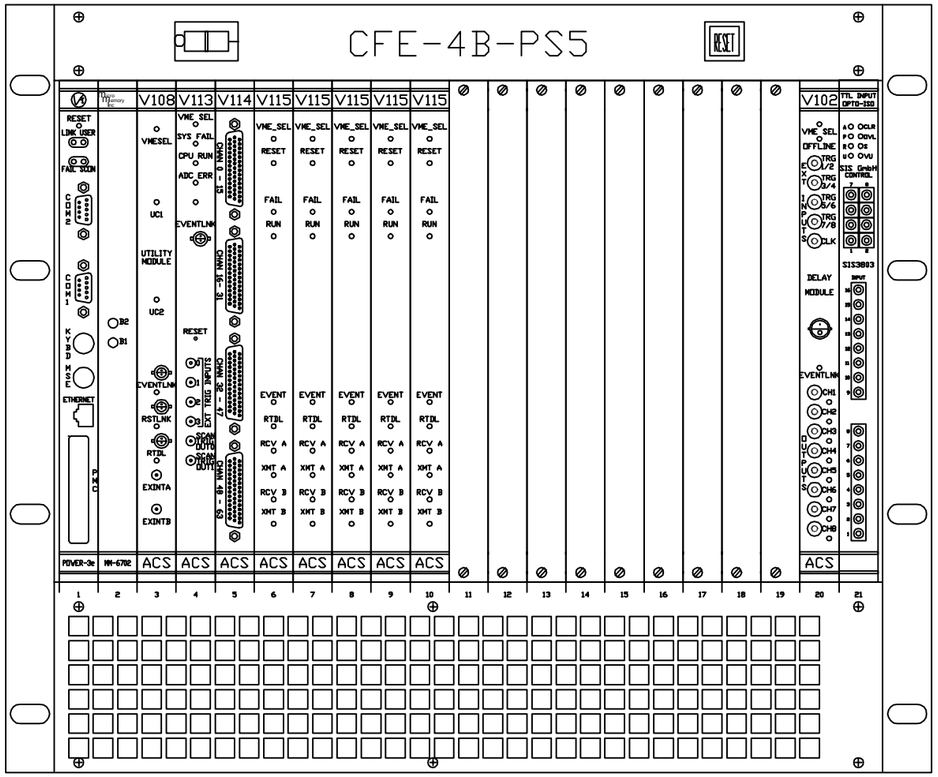
DRAWING NUMBER

MATERIAL: ——— SCALE: NA WEIGHT: – SHEET 1 OF 1

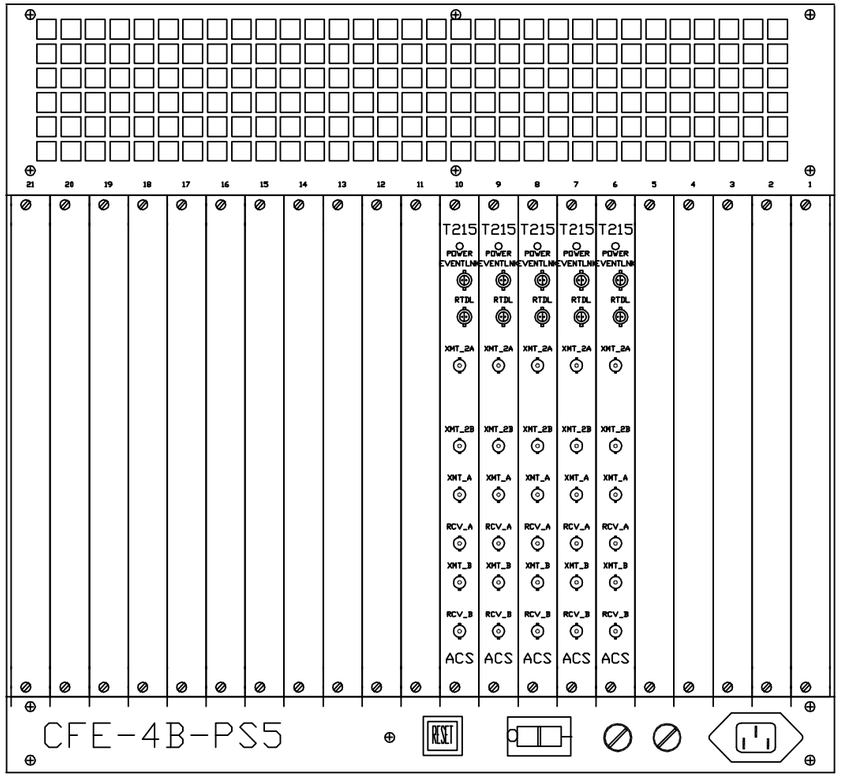
1 *AUTOCAD

REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

Controls, C-AD 4/23/2004 1:33 PM 4b_ps5.dwg



FRONT VIEW



REAR VIEW

NOTE:

1. ALL UNUSED SLOTS, FRONT AND REAR

		AR	SEE NOTE 1	11	VME BLANK PANEL (ELECTRO-SPACE ESFE-2985)	
		1	SLOT 21	11	SCALER WITH TTL INPUTS	SIS3803
		1	SLOT 20	10	V102 DELAY MODULE	94028072
		1	SLOT 2	9	MEMORY BOARD	MM-6702
		2	9,10	8	T215-2 WAVEFORM GENERATOR TRANSITION MODULE	94028441-2
		3	SL 6-8	7	T215-1 WAVEFORM GENERATOR TRANSITION MODULE	94028441-1
		5	SLOT 6-10	6	V115 WAVEFORM GENERATOR MODULE	94028108
		1	SLOT 5	5	V114 MADC A/D CONVERTER MODULE	94028226
		1	SLOT 4	4	V113 MADC CONTROLLER MODULE	94028140
		1	SLOT 3	3	V108 UTILITY MODULE	94028094
		1	SLOT 1	2	FRONT END COMPUTER	POWER 3e
		1	N/A	1	VME CHASSIS	RHIC-93008000
-3	-2	-1	REF DESIGNATOR	ITEM NO.	DESCRIPTION	MAT'L DWG NO./DWG. NO.
QTY REQD						

INTERPRET IN GENERAL ACCORDANCE WITH ASME Y14.24M-1989

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

DECIMAL TOLERANCES .X ±.030 .XX ±.015 .XXX ±.005 ANGULAR TOLERANCE ± .5°

OUTSTANDING ECN

NA FINISH

BREAK SHARP EDGES MAX. XX MIN. XX

Q.A. CATEGORY A-3

DRAWN BY	Ed Koropsak	1/15/98
CHECKED BY		
DESIGN APPROVAL		
ENGINEER APPROVAL	R. MICHNOFF	1/15/98
SUPVR. APPROVAL		

NEXT ASSEMBLY

BROOKHAVEN NATIONAL LABORATORY
UPTON, N.Y. 11973
RHIC CONTROLS
SERVICE BLDG 1004B

VME CHASSIS CFE-4B-PS5

SIZE D | 9402XXXX | REV. A

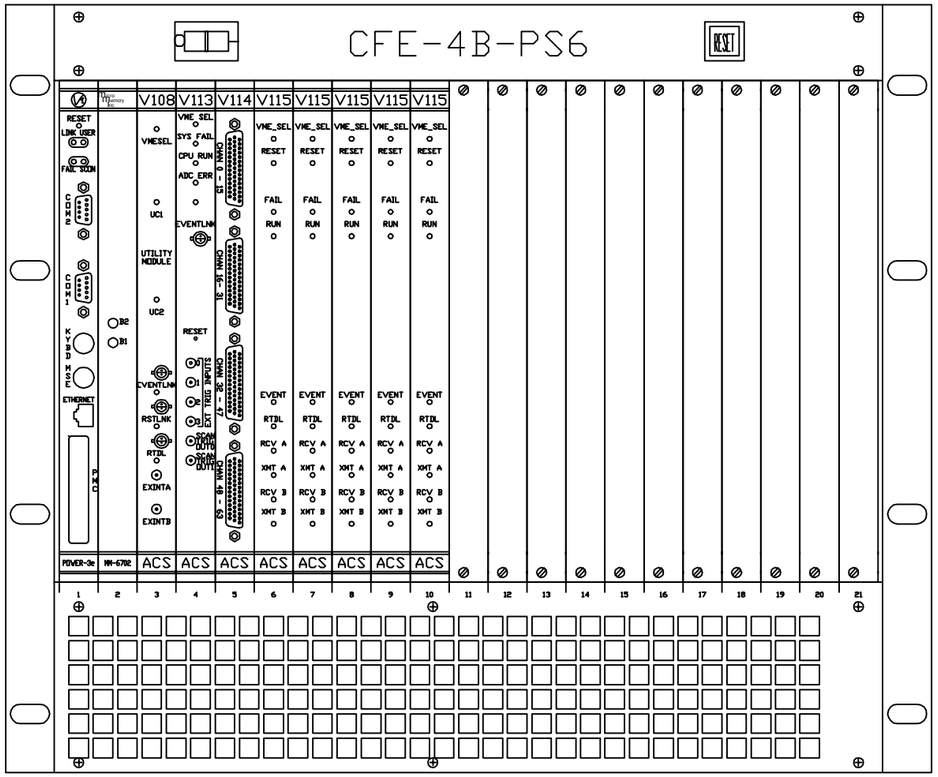
DRAWING NUMBER

MATERIAL: ——— SCALE: NA WEIGHT: – SHEET 1 OF 1

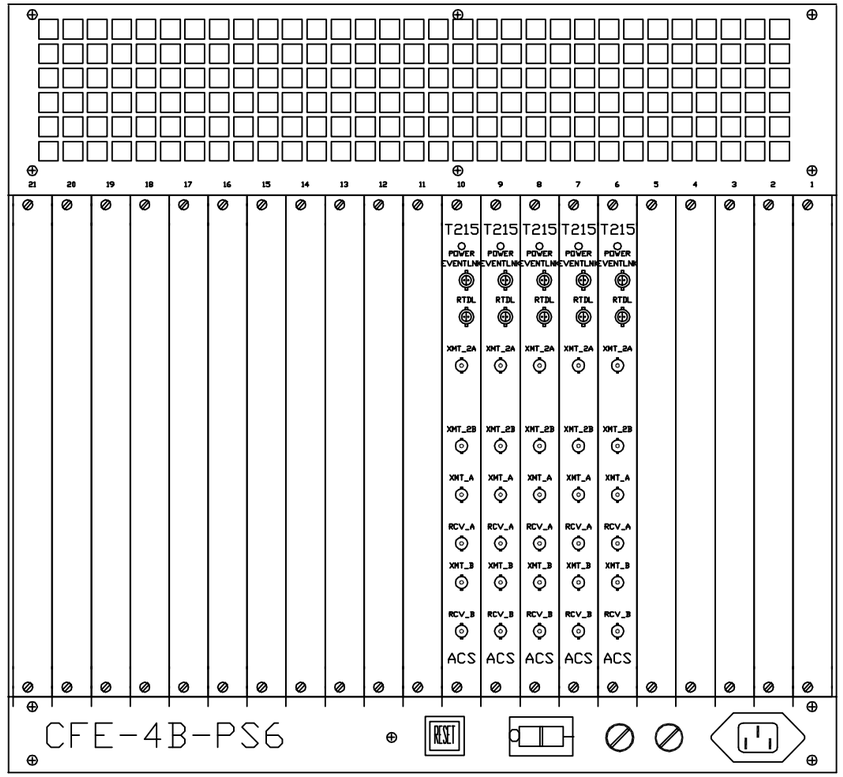
*AUTOCAD

REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

Controls, C-AD 4/23/2004 1:37 PM 4b_ps6.dwg



FRONT VIEW



REAR VIEW

NOTE:

1. ALL UNUSED SLOTS, FRONT AND REAR

-3	-2	-1	REF DESIGNATOR	ITEM NO.	DESCRIPTION	MAT'L DWG NO./DWG. NO.
		AR	SEE NOTE 1	11	VME BLANK PANEL (ELECTRO-SPACE ESFE-2985)	
				11		
				10		
		1	SLOT 2	9	MEMORY BOARD	MM-6702
		2	9,10	8	T215-2 WAVEFORM GENERATOR TRANSITION MODULE	94028441-2
		3	SL 6-8	7	T215-1 WAVEFORM GENERATOR TRANSITION MODULE	94028441-1
		5	SLOT 6-10	6	V115 WAVEFORM GENERATOR MODULE	94028108
		1	SLOT 5	5	V114 MADC A/D CONVERTER MODULE	94028226
		1	SLOT 4	4	V113 MADC CONTROLLER MODULE	94028140
		1	SLOT 3	3	V108 UTILITY MODULE	94028094
		1	SLOT 1	2	FRONT END COMPUTER	POWER 3e
		1	N/A	1	VME CHASSIS	RHIC-93008000

QTY REQD

INTERPRET IN GENERAL ACCORDANCE WITH ASME Y14.24M-1989

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

DECIMAL TOLERANCES .X ±.030 .XX ±.015 .XXX ±.005

ANGULAR TOLERANCE ± .5°

OUTSTANDING ECN: NA

FINISH: √

BREAK SHARP EDGES MAX. XX MIN. XX

Q.A. CATEGORY A-3

DRAWN BY	Ed Koropsak	1/15/98
CHECKED BY		
DESIGN APPROVAL		
ENGINEER APPROVAL	R. MICHNOFF	1/15/98
SUPVR. APPROVAL		

NEXT ASSEMBLY

BROOKHAVEN NATIONAL LABORATORY
UPTON, N.Y. 11973
RHIC CONTROLS
SERVICE BLDG 1004B

VME CHASSIS CFE-4B-PS6

SIZE D | DRAWING NUMBER 9402XXXX | REV. A

MATERIAL: ——— SCALE: NA WEIGHT: – SHEET 1 OF 1

8 7 6 5 4 3 2 1 *AUTOCAD