RHIC Accelerator Controls Section
Bldg. 1010B Rack Diagrams
BNL Drawing Numbers 94028xxx

Brookhaven National Laboratory, Upton, New York 11973

Created By: Bill Venegas
Last Updated 7/28/99

Power Distribution
📖 Rack ? (Sheet 1)

Spares
📖 F/O Channels (Sheet 3)

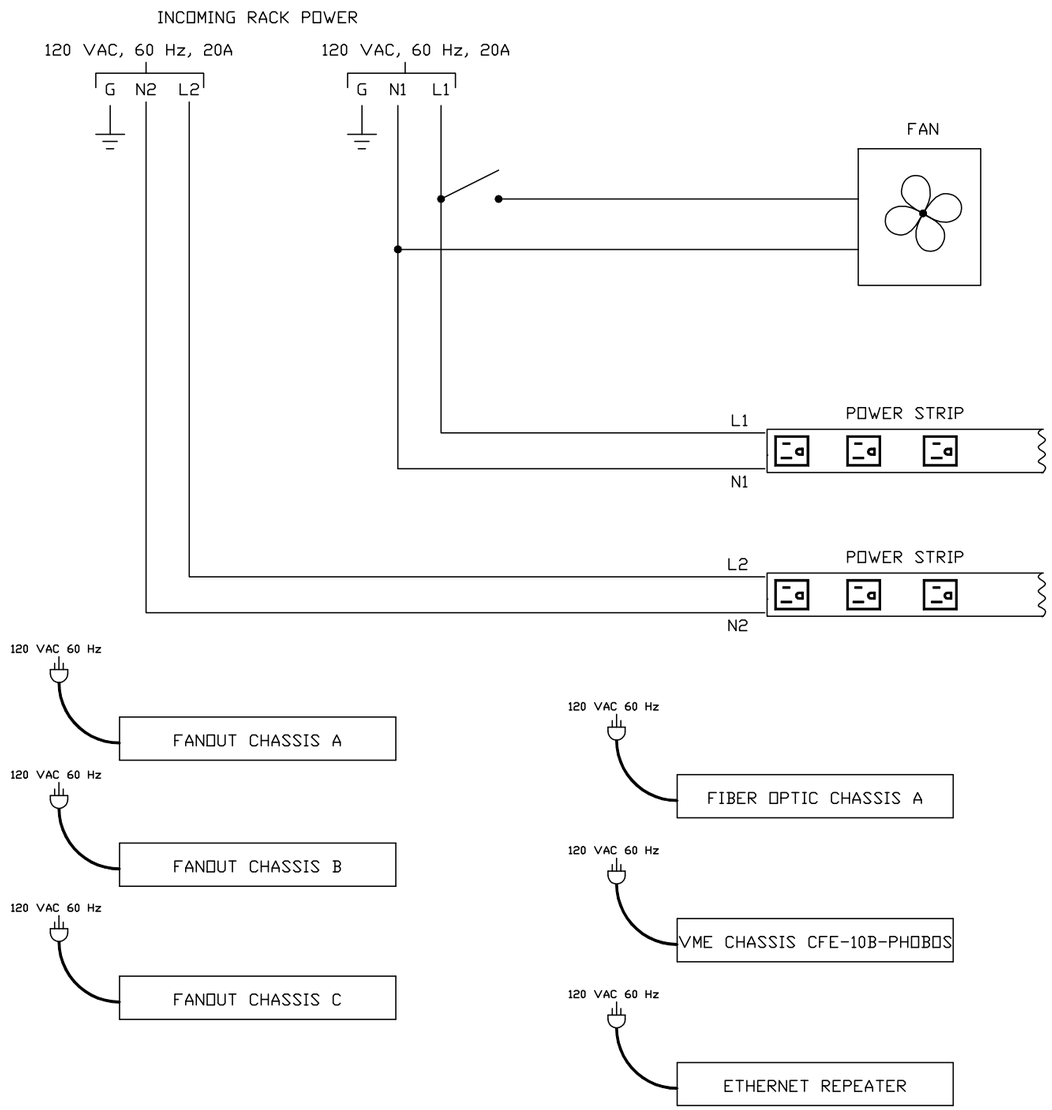
Serial Links
📖 Event Link (Sheet 4)
📖 Real Time Data Link (Sheet 6)
📖 Reset Link (Sheet 8)
📖 Beam Sync Yellow Link (Sheet 9)
📖 Beam Sync Blue Link (Sheet 10)

VME Chassis CFE-10B-PHOBOS modules
📖 Front End Computer, V108 Utility Module (Sheet 11)
📖 V102 Delay Module (Sheet 12)
📖 V124 Beam Sync Modules (Sheet 16,17)
📖 V120 Permit Module (Sheet 18)
📖 Permit System Interface Panel (Sheet 19)
📖 SIS3803 VME Scaler (Sheet 20)
📖 VMIVME Bit 3 (Sheet 22)

NOTE: Sheets 2, 5, 7, 13-15 are Blank.

REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

Controls 7/27/99 9:21 AM PHOBOS_01.dwg



RACK R10B07

NOTE: ALL 120 VAC, 60 Hz POWER CORDS
PLUG INTO POWER STRIP OUTLETS

-3	-2	-1	REF DESIGNATOR	ITEM NO.	DESCRIPTION	MAT'L DWG NO.,SPNL NO.
		X		11		
		X		10		
		X		9		
		10		8	SERIAL LINK TWINAX CABLE, LENGTH AS REQUIRED	94028176
		6		7	SERIAL LINK TWINAX CABLE, 1 FT	94028176
		-		6		
		5		5	SINGLE MODE FIBER OPTIC CABLE	94028251
		X		4		
		-		3		
		X		2		
		2		1	NETWORK CABLE TO FEC	

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

		DATE
DRAWN BY	VENEGAS	7/27/98
CHECKED BY		
DESIGN APPROVAL		
ENGINEER APPROVAL	R. MICHNOFF	7/27/98
SUPVR. APPROVAL		

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UPTON, N.Y. 11973

RHIC CONTROLS WIRING DIAGRAM
BLDG, 1010B, RACK R10B07

POWER DISTRIBUTION

SIZE D | DRAWING NUMBER 94028XXX | REV. A

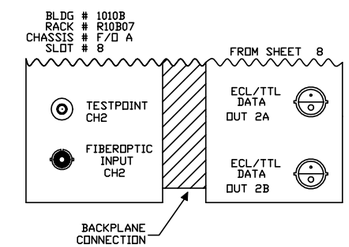
MATERIAL: ——— SCALE: NA WEIGHT: – SHEET 1 OF X

*AUTOCAD

REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

Controls 7/27/99 9:24 AM PHOBOS_03.dwg

FIBER OPTIC RECEIVER



-3	-2	-1	REF DESIGNATOR	ITEM NO.	DESCRIPTION	MAT'L DWG NO.,SPNL 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		DATE
DRAWN BY	Ed Koropsak	7/27/98
CHECKED BY		
DESIGN APPROVAL		
ENGINEER APPROVAL	R. MICHNOFF	7/27/98
SUPVR. APPROVAL		

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RHIC CONTROLS WIRING DIAGRAM

BLDG. 1010B

SPARE F/O RCVR/XMIT CHANNELS

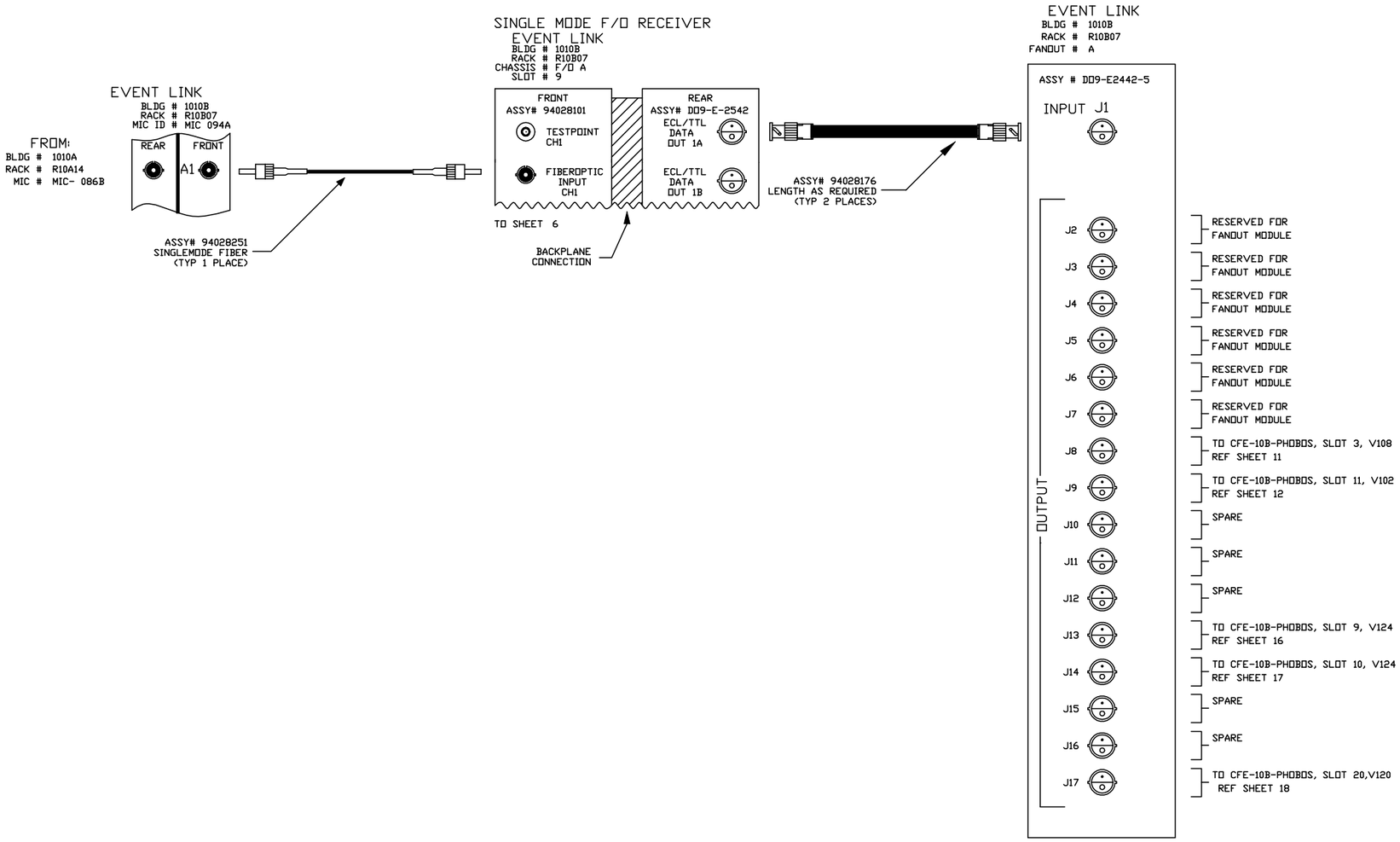
SIZE D | DRAWING NUMBER 94028XXX | REV. A

MATERIAL: ——— SCALE: NA WEIGHT: – SHEET 3 OF X

*AUTOCAD

REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

Controls 7/27/99 9:34 AM PHOBOS_04.dwg



-3	-2	-1	REF DESIGNATOR	ITEM NO.	DESCRIPTION	MAT'L DWG NO.,SPNL 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		DATE
DRAWN BY	VENEGAS	7/27/99
CHECKED BY		
DESIGN APPROVAL		
ENGINEER APPROVAL	R. MICHNOFF	7/27/98
SUPVR. APPROVAL		

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RHIC CONTROLS WIRING DIAGRAM

BLDG. 1010B

EVENT LINK

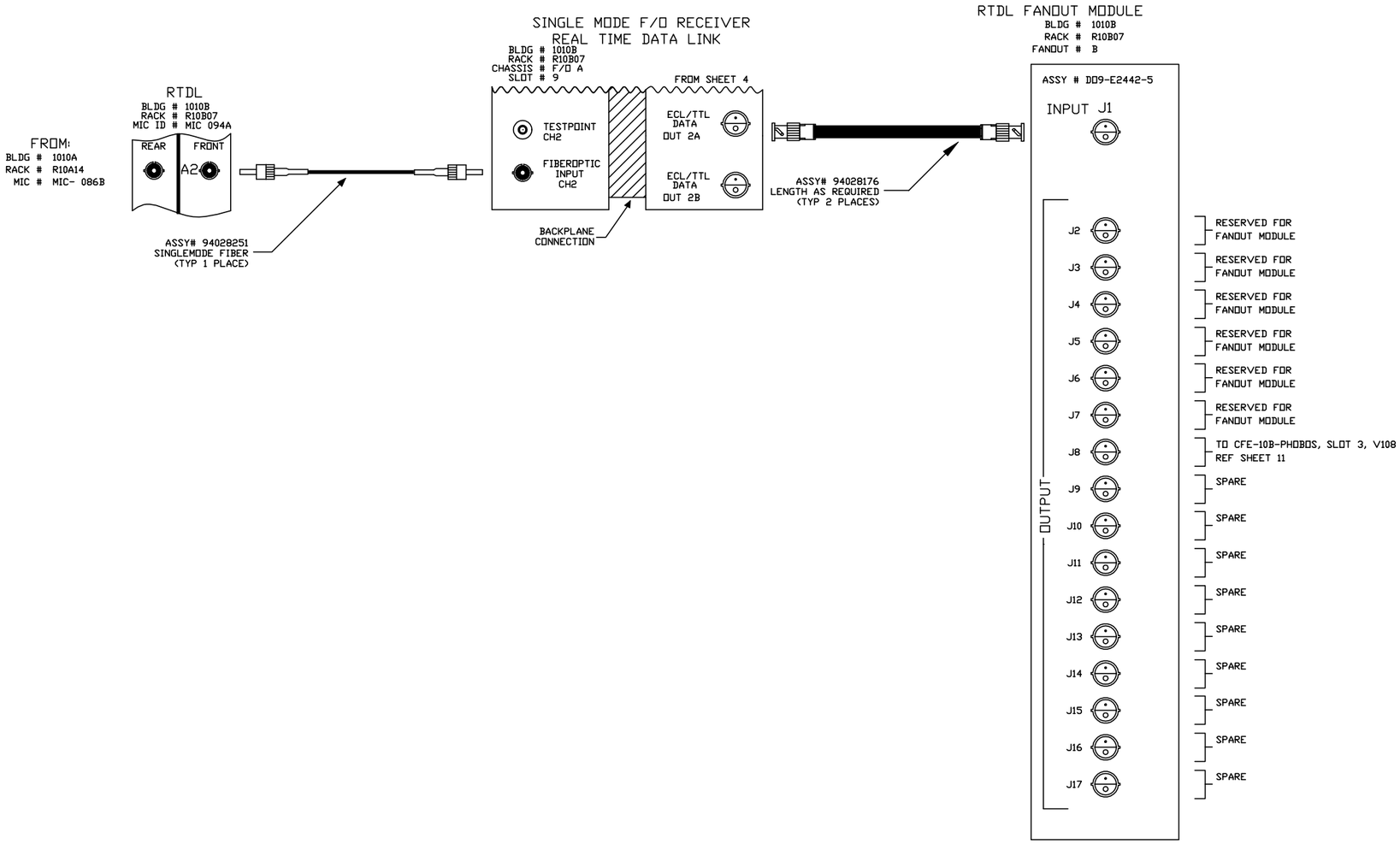
SIZE D | DRAWING NUMBER 94028XXX | REV. A

MATERIAL: ——— SCALE: NA WEIGHT: – SHEET 4 OF X

*AUTOCAD

REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

Controls 7/27/99 9:49 AM PHOBOS_06.dwg



-3	-2	-1	QTY REQD	REF DESIGNATOR	ITEM NO.	DESCRIPTION	MAT'L DWG NO.,SPNL 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'

OUTSTANDING ECN

NA FINISH

BREAK SHARP EDGES
MAX. XX MIN. XX

Q.A. CATEGORY A-3		DATE
DRAWN BY	VENEGAS	7/27/99
CHECKED BY		
DESIGN APPROVAL		
ENGINEER APPROVAL	R. MICHNOFF	7/27/98
SUPVR. APPROVAL		

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RHIC CONTROLS WIRING DIAGRAM
BLDG. 1010B
REAL TIME DATA LINK

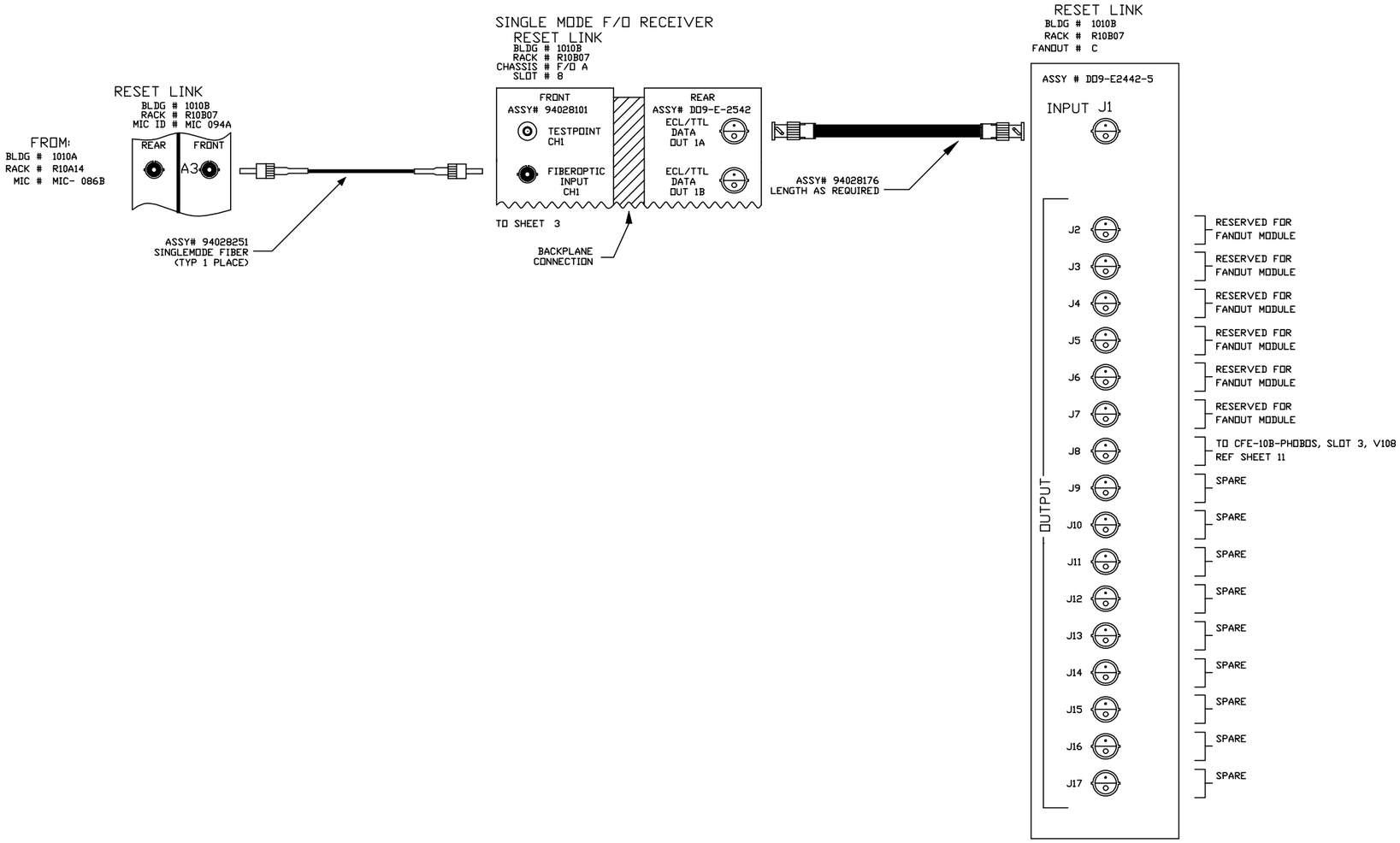
SIZE D | DRAWING NUMBER 94028XXX | REV. A

MATERIAL: ——— | SCALE: NA | WEIGHT: – | SHEET 6 OF X

*AUTOCAD

REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

Controls 7/27/99 9:55 AM PHOBOS_08.dwg



-3	-2	-1	QTY REQD	REF DESIGNATOR	ITEM NO.	DESCRIPTION	MAT'L DWG NO.,BNL 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		DATE
DRAWN BY	VENEGAS	7/27/99
CHECKED BY		
DESIGN APPROVAL		
ENGINEER APPROVAL	R. MICHNOFF	7/27/98
SUPVR. APPROVAL		

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UPTON, N.Y. 11973

RHIC CONTROLS WIRING DIAGRAM
BLDG. 1010B
RESET LINK

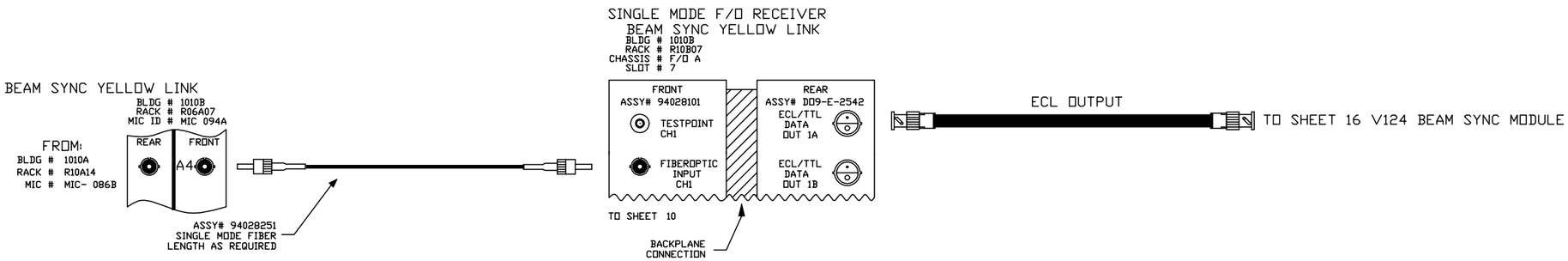
SIZE D | DRAWING NUMBER 94028XXX | REV. A

MATERIAL: ——— SCALE: NA WEIGHT: – SHEET 8 OF X

*AUTOCAD

REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

Controls 7/27/99 9:58 AM PHOBOS_09.dwg



-3	-2	-1	REF DESIGNATOR	ITEM NO.	DESCRIPTION	MAT'L DWG NO.,BPM. 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		DATE
DRAWN BY	VENEGAS	7/27/99
CHECKED BY		
DESIGN APPROVAL		
ENGINEER APPROVAL	R. MICHNOFF	7/27/98
SUPVR. APPROVAL		
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RHIC CONTROLS WIRING DIAGRAM
BLDG. 1010B
BEAM SYNC YELLOW LINK

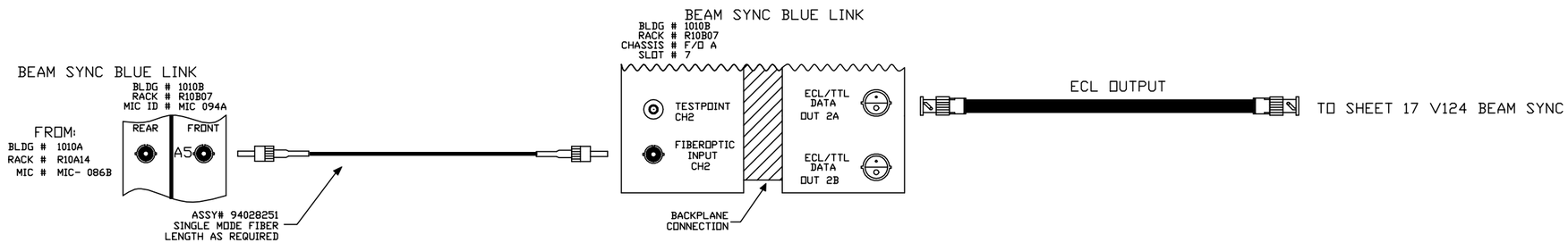
SIZE D | DRAWING NUMBER 94028XXX | REV. A

MATERIAL: ——— SCALE: NA WEIGHT: – SHEET 9 OF X

*AUTOCAD

REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

Controls 7/27/99 10:27 AM PHOBOS_10.dwg



-3	-2	-1	REF DESIGNATOR	ITEM NO.	DESCRIPTION	MAT'L DWG NO.,BPM. 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		DATE
DRAWN BY	VENEGAS	7/27/99
CHECKED BY		
DESIGN APPROVAL		
ENGINEER APPROVAL	R. MICHNOFF	7/27/98
SUPVR. APPROVAL		

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RHIC CONTROLS WIRING DIAGRAM
BLDG. 1010B

BEAM SYNC BLUE LINK

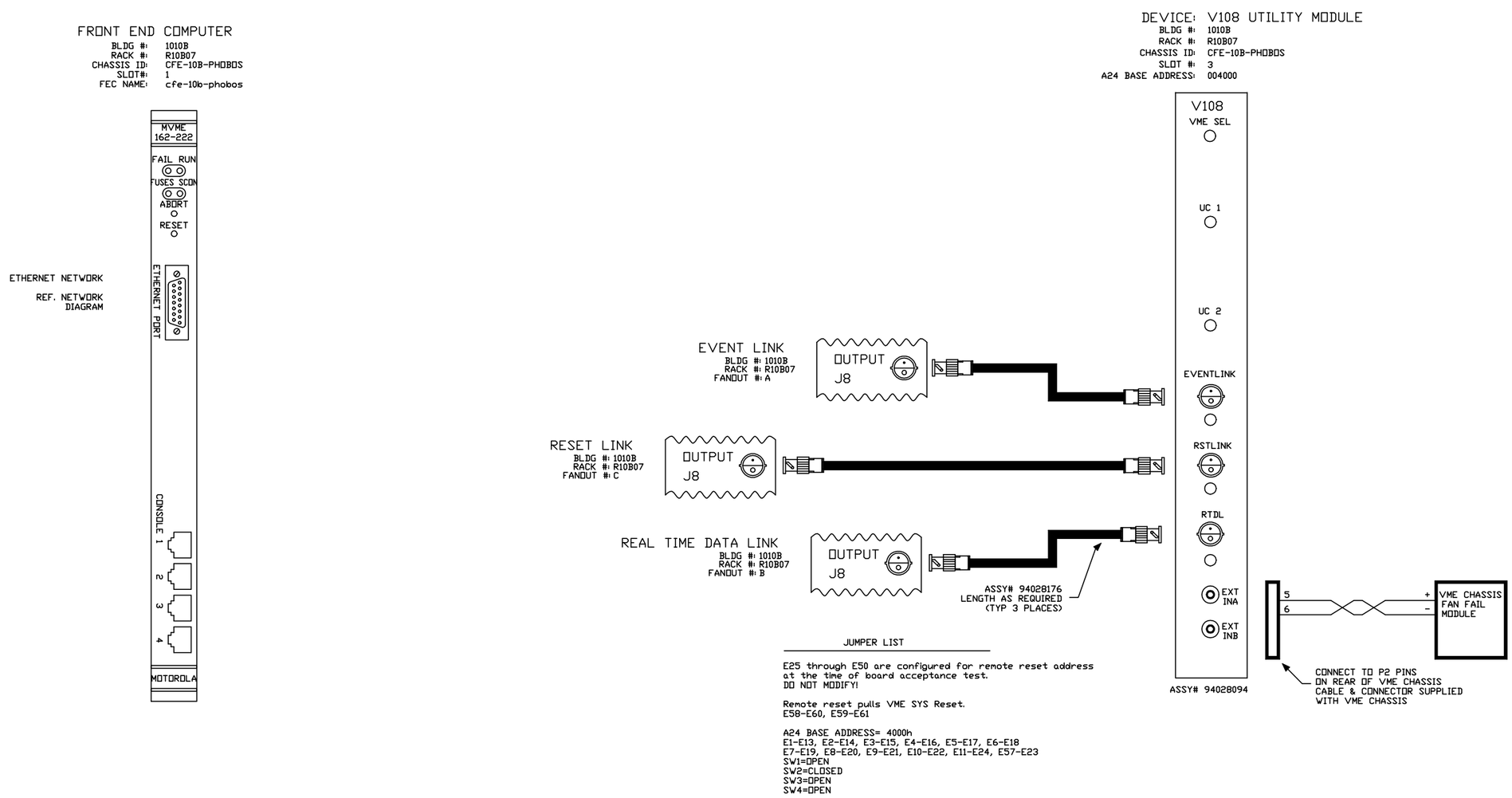
SIZE D | 94028XXX | REV. A
DRAWING NUMBER

MATERIAL: ——— SCALE: NA WEIGHT: – SHEET 10 OF X

1 *AUTOCAD

REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

Controls 7/27/99 10:30 AM PHOBOS_11.dwg



JUMPER LIST

E25 through E50 are configured for remote reset address at the time of board acceptance test.
DO NOT MODIFY!

Remote reset pulls VME SYS Reset.
E58-E60, E59-E61

A24 BASE ADDRESS= 4000h
E1-E13, E2-E14, E3-E15, E4-E16, E5-E17, E6-E18
E7-E19, E8-E20, E9-E21, E10-E22, E11-E24, E57-E23
SW1=OPEN
SW2=CLOSED
SW3=OPEN
SW4=OPEN

-3	-2	-1	REF DESIGNATOR	ITEM NO.	DESCRIPTION	MAT'L DWG NO.,BRL 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		DATE
DRAWN BY	VENEGAS	7/27/99
CHECKED BY		
DESIGN APPROVAL		
ENGINEER APPROVAL	R. MICHNOFF	7/27/98
SUPVR. APPROVAL		

NEXT ASSEMBLY

BROOKHAVEN NATIONAL LABORATORY
UPTON, N.Y. 11973

RHIC CONTROLS WIRING DIAGRAM

BLDG. 1010B, VME CHASSIS CFE-10B-PHOBOS

FT END COMP/V108 UTIL MODULE

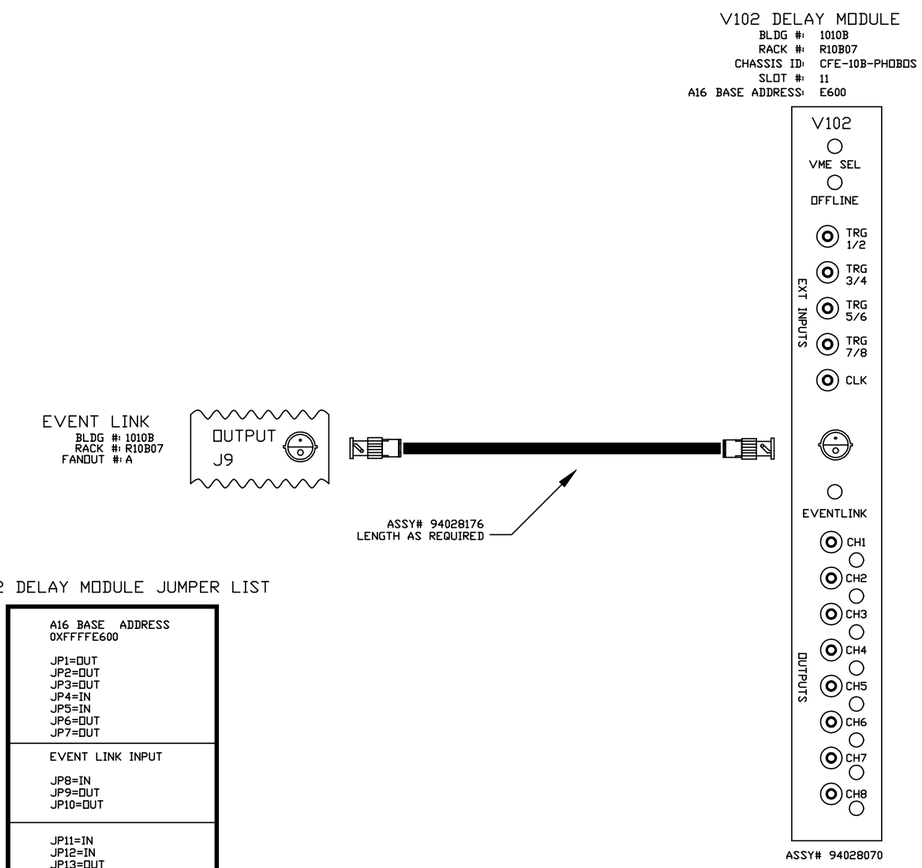
SIZE D | DRAWING NUMBER 94028XXX | REV. A

MATERIAL: ——— SCALE: NA WEIGHT: — SHEET 11 OF X

*AUTOCAD

REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

Controls 7/27/99 10:33 AM PHOBOS_12.dwg



V102 DELAY MODULE JUMPER LIST

A16 BASE ADDRESS 0XFFFFE600 JP1=OUT JP2=OUT JP3=OUT JP4=IN JP5=IN JP6=OUT JP7=OUT
EVENT LINK INPUT JP8=IN JP9=OUT JP10=OUT
JP11=IN JP12=IN JP13=OUT JP14=IN

-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°

OUTSTANDING ECN

NA FINISH

BREAK SHARP EDGES
MAX. XX MIN. XX

Q.A. CATEGORY A-3		DATE
DRAWN BY	VENEGAS	7/27/99
CHECKED BY		
DESIGN APPROVAL		
ENGINEER APPROVAL	R. MICHNOFF	7/27/99/99
SUPVR. APPROVAL		

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UPTON, N.Y. 11973

RHIC CONTROLS WIRING DIAGRAM

BLDG. 1010B CHASSIS CFE-10B-PHOBOS

V102 DELAY MODULE

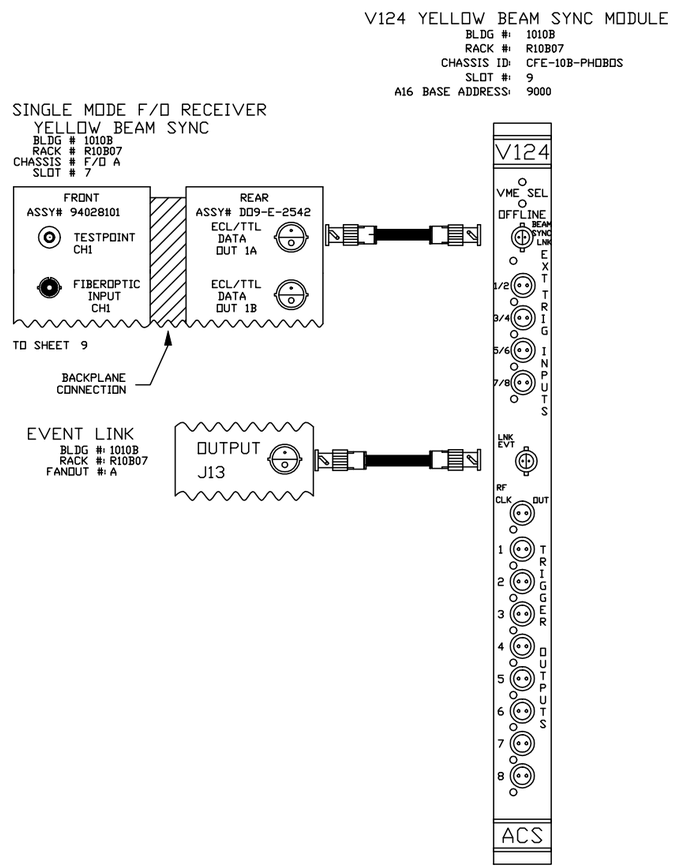
SIZE D | DRAWING NUMBER 94028XXX | REV. A

MATERIAL: ——— SCALE: NA WEIGHT: — SHEET 12 OF X

*AUTOCAD

REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

Controls 7/27/99 10:37 AM PHOBOS_16.dwg



-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°

OUTSTANDING ECN

NA FINISH

BREAK SHARP EDGES
MAX. XX MIN. XX

Q.A. CATEGORY A-3		DATE
DRAWN BY	VENEGAS	7/27/99
CHECKED BY		
DESIGN APPROVAL		
ENGINEER APPROVAL	R. MICHNOFF	7/27/98
SUPVR. APPROVAL		

NEXT ASSEMBLY

BROOKHAVEN NATIONAL LABORATORY
UPTON, N.Y. 11973

RHIC CONTROLS WIRING DIAGRAM

BLDG. 1010B CHASSIS CFE-10B-PHOBOS

V124 BEAM SYNC MODULE

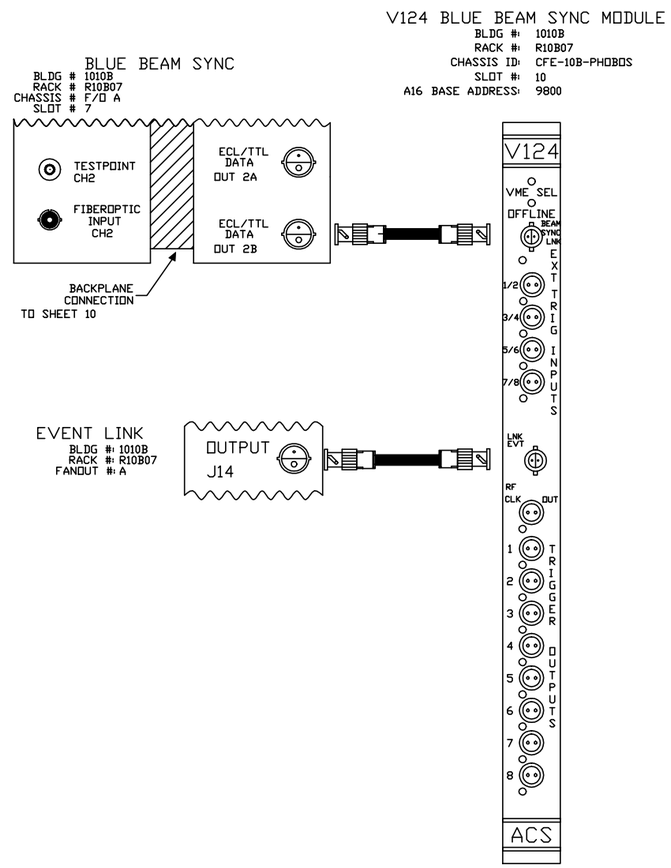
SIZE D | DRAWING NUMBER 94028XXX | REV. A

MATERIAL: ——— SCALE: NA WEIGHT: – SHEET 16 OF X

*AUTOCAD

REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

Controls 7/27/99 10:41 AM PHOBOS_17.dwg



-3	-2	-1	REF DESIGNATOR	ITEM NO.	DESCRIPTION	MAT'L DWG NO.,BPIL 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		DATE
DRAWN BY	VENEGAS	7/27/99
CHECKED BY		
DESIGN APPROVAL		
ENGINEER APPROVAL	R. MICHNOFF	7/27/98
SUPVR. APPROVAL		

NEXT ASSEMBLY

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RHIC CONTROLS WIRING DIAGRAM

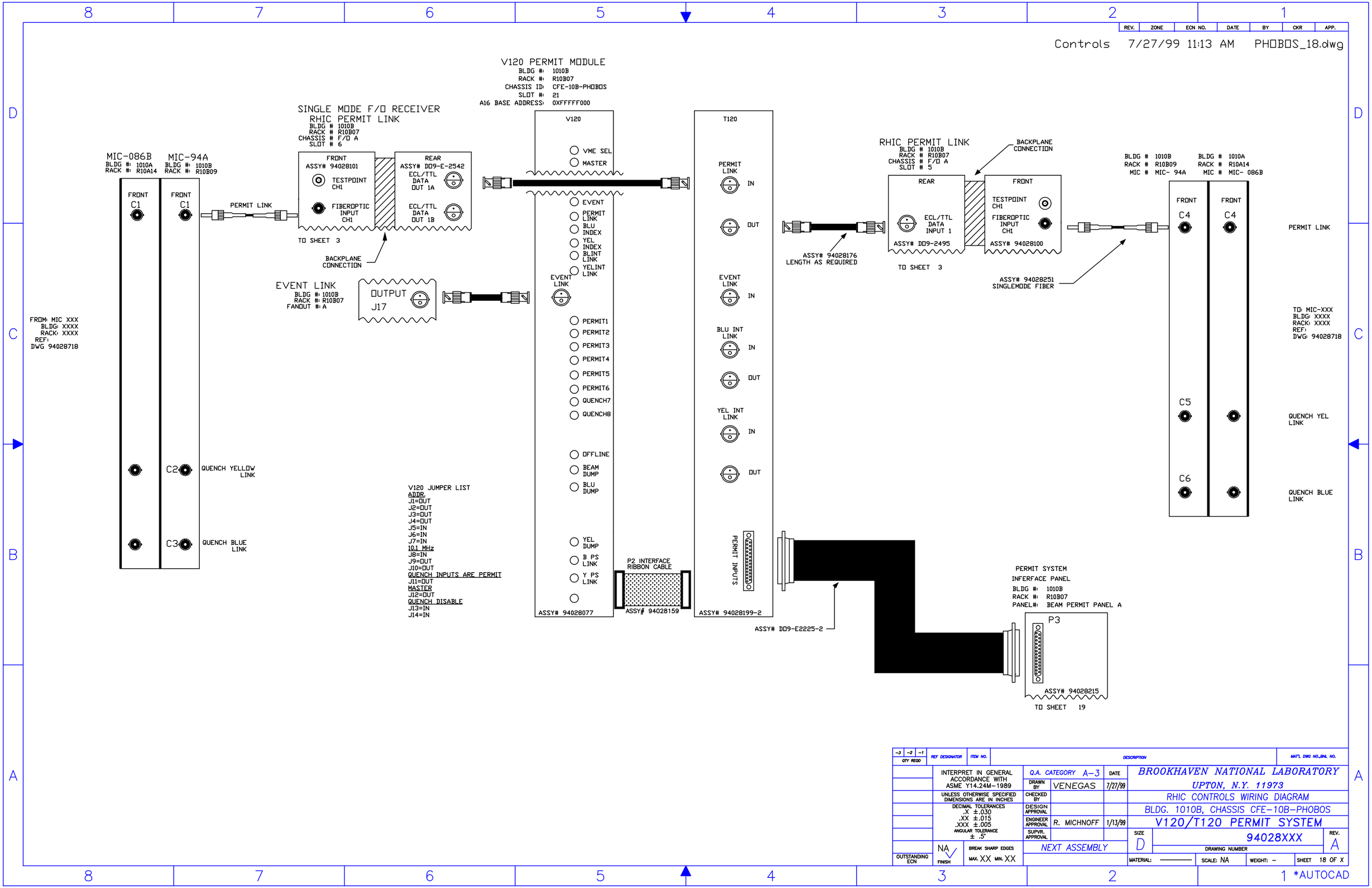
BLDG. 1010B CHASSIS CFE-10B-PHOBOS

V124 BEAM SYNC MODULE

SIZE D | DRAWING NUMBER 94028XXX | REV. A

MATERIAL: ——— SCALE: NA WEIGHT: – SHEET 17 OF X

*AUTOCAD

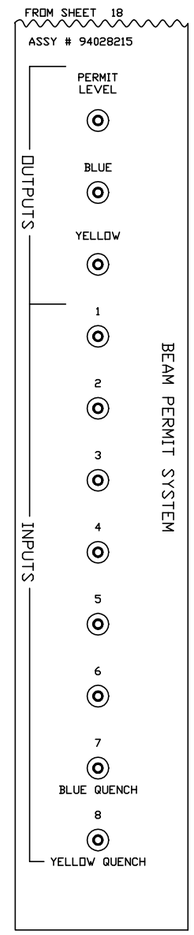


Controls 7/27/99 11:13 AM PHOBOS_18.dwg
REV. ZONE ECN NO. DATE BY CKR APP.
V120 PERMIT MODULE
BLDG #: 1010B
RACK #: R10B07
CHASSIS ID: CFE-10B-PHOBOS
SLOT #: 21
A16 BASE ADDRESS: 0XFFFFF000
SINGLE MODE F/O RECEIVER
RHIC PERMIT LINK
BLDG # 1010B
RACK # R10B07
CHASSIS # F/O A
SLOT # 6
MIC-086B
BLDG #: 1010A
RACK #: R10A14
MIC-94A
BLDG #: 1010B
RACK #: R10B09
FRONT
C1
C2
C3
QUENCH YELLOW LINK
QUENCH BLUE LINK
PERMIT LINK
FRONT
ASSY# 94028101
TESTPOINT CH1
FIBEROPTIC INPUT CH1
REAR
ASSY# DO9-E-2542
ECL/TTL DATA OUT 1A
ECL/TTL DATA OUT 1B
TO SHEET 3
BACKPLANE CONNECTION
EVENT LINK
BLDG #: 1010B
RACK #: R10B07
FANOUT #: A
OUTPUT
J17
FROM: MIC XXX
BLDG: XXXX
RACK: XXXX
REF:
DWG 94028718
V120
VME SEL
MASTER
EVENT
PERMIT LINK
BLU INDEX
YEL INDEX
BLINT LINK
YELINT LINK
EVENT LINK
PERMIT1
PERMIT2
PERMIT3
PERMIT4
PERMIT5
PERMIT6
QUENCH7
QUENCH8
OFFLINE
BEAM DUMP
BLU DUMP
YEL DUMP
B PS LINK
Y PS LINK
ASSY# 94028077
P2 INTERFACE RIBBON CABLE
ASSY# 94028159
T120
PERMIT LINK
IN
OUT
EVENT LINK
BLU INT LINK
YEL INT LINK
PERMIT INPUTS
ASSY# 94028199-2
V120 JUMPER LIST
ADDR.
J1=OUT
J2=OUT
J3=OUT
J4=OUT
J5=IN
J6=IN
J7=IN
10.1 MHz
J8=IN
J9=OUT
J10=OUT
QUENCH INPUTS ARE PERMIT
J11=OUT
MASTER
J12=OUT
QUENCH DISABLE
J13=IN
J14=IN
RHIC PERMIT LINK
BLDG # 1010B
RACK # R10B07
CHASSIS # F/O A
SLOT # 5
BACKPLANE CONNECTION
REAR
ECL/TTL DATA INPUT 1
ASSY# DO9-2495
FRONT
TESTPOINT CH1
FIBEROPTIC INPUT CH1
ASSY# 94028100
TO SHEET 3
ASSY# 94028176
LENGTH AS REQUIRED
ASSY# 94028251
SINGLEMODE FIBER
BLDG # 1010B
RACK # R10B09
MIC # MIC- 94A
BLDG # 1010A
RACK # R10A14
MIC # MIC- 086B
FRONT
C4
C5
C6
PERMIT LINK
TO: MIC-XXX
BLDG: XXXX
RACK: XXXX
REF:
DWG: 94028718
QUENCH YEL LINK
QUENCH BLUE LINK
ASSY# DO9-E2225-2
PERMIT SYSTEM
INFERFACE PANEL
BLDG #: 1010B
RACK #: R10B07
PANEL#: BEAM PERMIT PANEL A
P3
ASSY# 94028215
TO SHEET 19
-3 -2 -1
QTY REQD
REF DESIGNATOR
ITEM NO.
DESCRIPTION
MAT'L DWG NO.BNL 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°
OUTSTANDING ECN
NA
FINISH
BREAK SHARP EDGES
MAX. XX MIN. XX
Q.A. CATEGORY A-3
DATE
DRAWN BY VENEGAS 7/27/99
CHECKED BY
DESIGN APPROVAL
ENGINEER APPROVAL R. MICHNOFF 1/13/99
SUPVR. APPROVAL
NEXT ASSEMBLY
BROOKHAVEN NATIONAL LABORATORY
UPTON, N.Y. 11973
RHIC CONTROLS WIRING DIAGRAM
BLDG. 1010B, CHASSIS CFE-10B-PHOBOS
V120/T120 PERMIT SYSTEM
SIZE D
94028XXX
DRAWING NUMBER
REV. A
MATERIAL:
SCALE: NA
WEIGHT: -
SHEET 18 OF X
1 *AUTOCAD

REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

PERMIT SYSTEM INTERFACE MODULE

BLDG #: 1010B
RACK #: R10B07
PANEL #: PERMIT I/O PANEL A



-3	-2	-1	REF DESIGNATOR	ITEM NO.	DESCRIPTION	MAT'L DWG NO.,SPNL 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		DATE
DRAWN BY	VENEGAS	7/27/99
CHECKED BY		
DESIGN APPROVAL		
ENGINEER APPROVAL	R. MICHNOFF	1/13/99
SUPVR. APPROVAL		

NEXT ASSEMBLY

BROOKHAVEN NATIONAL LABORATORY
UPTON, N.Y. 11973

RHIC CONTROLS WIRING DIAGRAM
BLDG. 1010B RACK R10B07
PERMIT SYSTEM INTERFACE PANEL

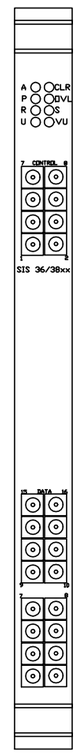
SIZE D | DRAWING NUMBER 94028XXX | REV. A

MATERIAL: ——— | SCALE: NA | WEIGHT: – | SHEET 19 OF X

*AUTOCAD

REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

SIS3803 SCALER
BLDG #: 1010B
RACK #: R10B07
CHASSIS ID: CFE-10B-PHOBOS
SLOT #: 19
A32 BASE ADDRESS: 0X8383800



BOARD ADDRESS JUMPERS

EN_A16: OUT
EN_A24: OUT
EN_132: IN

SW_A32UI: 0
SW_A32L: 8
SW_A24U: 3
SW_A24L: 8
SW_A16U: 3 (IF MORE BD'S INSTALLED SW_A16U WILL BE 4,5,6 ETC)

J_ALL: IN

-3	-2	-1	REF DESIGNATOR	ITEM NO.	DESCRIPTION	MAT'L DWG NO.,SPNL 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		DATE
DRAWN BY	VENEGAS	7/28/99
CHECKED BY		
DESIGN APPROVAL		
ENGINEER APPROVAL	R. MICHNOFF	1/11/99
SUPVR. APPROVAL		
NEXT ASSEMBLY		

BROOKHAVEN NATIONAL LABORATORY
UPTON, N.Y. 11973
RHIC CONTROLS WIRING DIAGRAM
BLDG. 1010B
SIS3803 VME SCALER

SIZE D | DRAWING NUMBER 94028XXX | REV. A

MATERIAL: ——— SCALE: NA WEIGHT: – SHEET 20 OF X

*AUTOCAD

REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

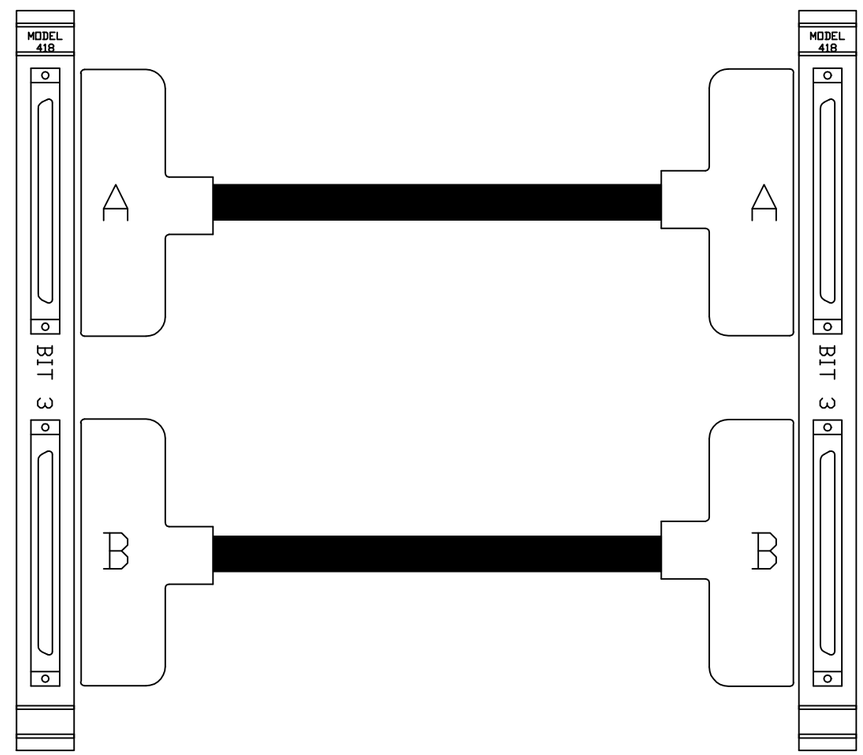
Controls 7/28/99 1:04 PM PHOBOS_21.dwg

VMIVME BIT 3 (MASTER)
BLDG #: 1010B
RACK #: R10B07
CHASSIS ID: CFE-10B-PHOBOS
SLOT #: 21
XX BASE ADDRESS: XXX

VMIVME BIT 3 (SLAVE)
BLDG #: 1010B
RACK #: R10B07
CHASSIS ID: ZDC HV POWER SUPPLY
SLOT #: XXX
XX BASE ADDRESS: XXX

JUMPER SETTING FOR MASTER

1. P/S JUMPER ON (PRIMARY MODULE).
2. C/S JUMPER ON OFF (NO REGISTER REQUIRED).
3. SYS JUMPER HAS NO EFFECT ON PRIMARY.



JUMPER SETTING FOR SLAVE

1. P/S JUMPER OFF (SECONDARY MODULE).
2. C/S JUMPER OFF (NO REGISTER REQUIRED).
3. SYS JUMPER ON (DON'T PASS SYSFAIL TO PRI REPEATER ON INITIALIZATION.

-3	-2	-1	REF DESIGNATOR	ITEM NO.	DESCRIPTION	MAT'L DWG NO./INL 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		DATE
DRAWN BY	Ed Koropsak	7/27/98
CHECKED BY		
DESIGN APPROVAL		
ENGINEER APPROVAL	R. MICHNOFF	7/27/98
SUPVR. APPROVAL		

NEXT ASSEMBLY

BROOKHAVEN NATIONAL LABORATORY
UPTON, N.Y. 11973

RHIC CONTROLS WIRING DIAGRAM

BLDG. 1010B

VMIVME BIT 3

SIZE D | DRAWING NUMBER 94028XXX | REV. A

MATERIAL: ——— SCALE: NA WEIGHT: – SHEET 22 OF X

*AUTOCAD