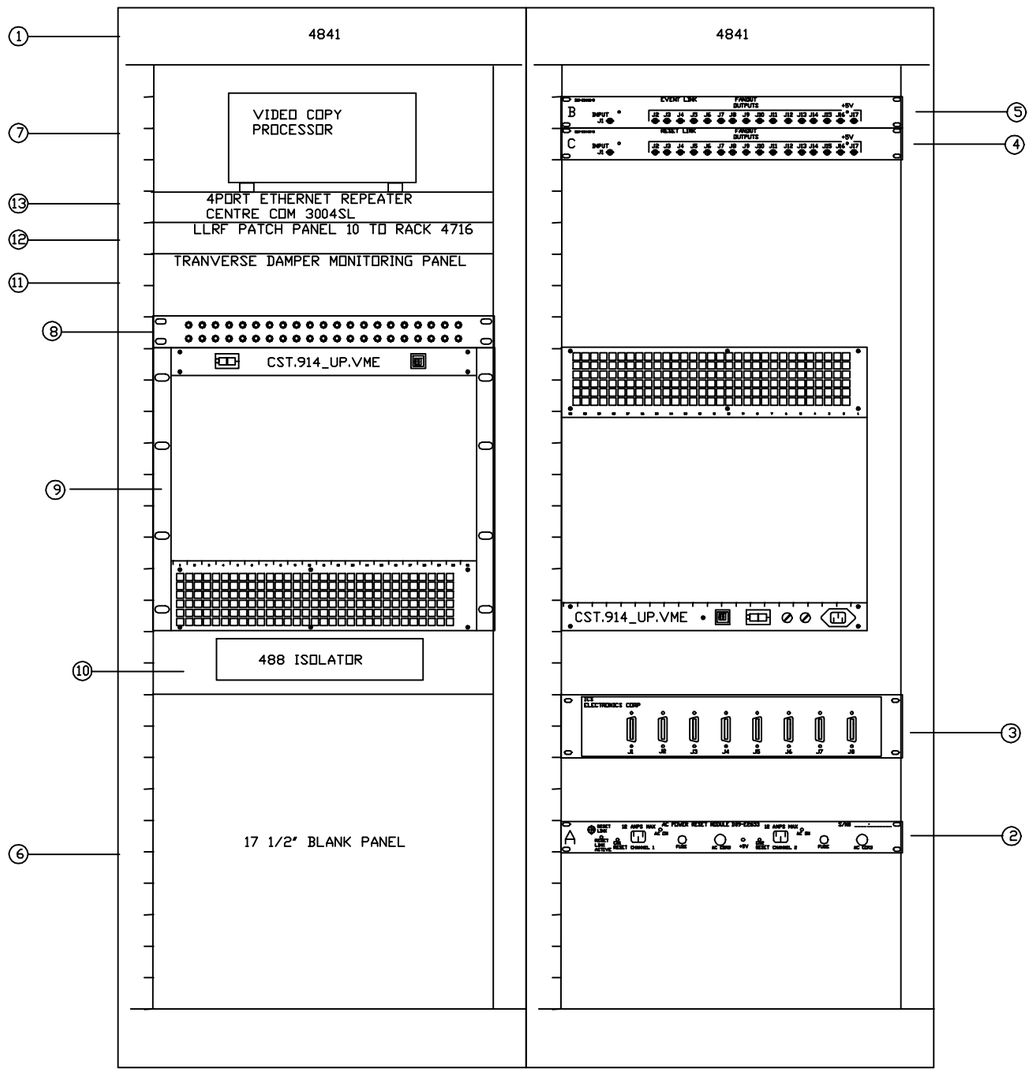
REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

BNL, BNL 12/28/00 8:28 AM D09-E-RD2783.dwg



CONTROLLER LIST

CDC.B.LLRF
CDC.B.AUXRF
CDC.BTA_INST

-3	-2	-1	REF DESIGNATOR	ITEM NO.	DESCRIPTION	MAT'L DWG NO.,BNL NO.
		1	13	12	4 PORT ETHERNET REPEATER CENTRE MDM 3004SL	
		1	12	11	LLRF PATCH PANEL 10 TO RACK 4716	
		1	11	10	TRANSVERSE DAMPER MONITORING PANEL	
		1	10	9	488 ISOLATOR	
		1	9	8	6U VME CHASSIS CST.914_UP.VME	
		1	8	7	GROMMET PANEL	
		1	7	6	VIDEO COPY PROCESSOR	
		1	6	5	17 1/2" BLANK PANEL	
		2	4,5	4	EVENT/RESET LINK FANOUT MODULES	
		1	3	3	488 fanout	
		1	2	2	AC RESET MODULE	
		1	1	1	60" RACK	X

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	JAPPE	2/3/2000
CHECKED BY		
DESIGN APPROVAL		
ENGINEER APPROVAL		
SUPVR. APPROVAL		

NEXT ASSEMBLY

BROOKHAVEN NATIONAL LABORATORY
UPTON, N.Y. 11973
CA Division
914E Rack Layout
CST.914_UP.VME

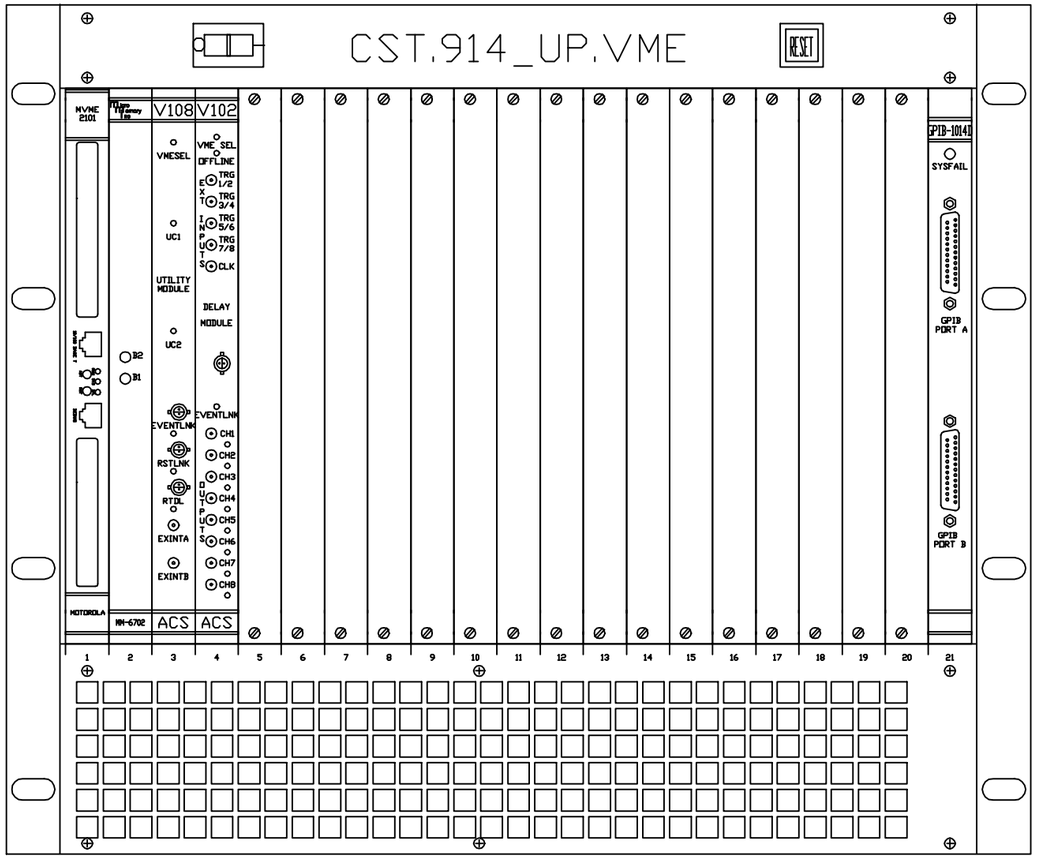
SIZE A | DRAWING NUMBER D09-E-RD2783 | REV. A

MATERIAL: ——— | SCALE: FULL | WEIGHT: – | SHEET 1

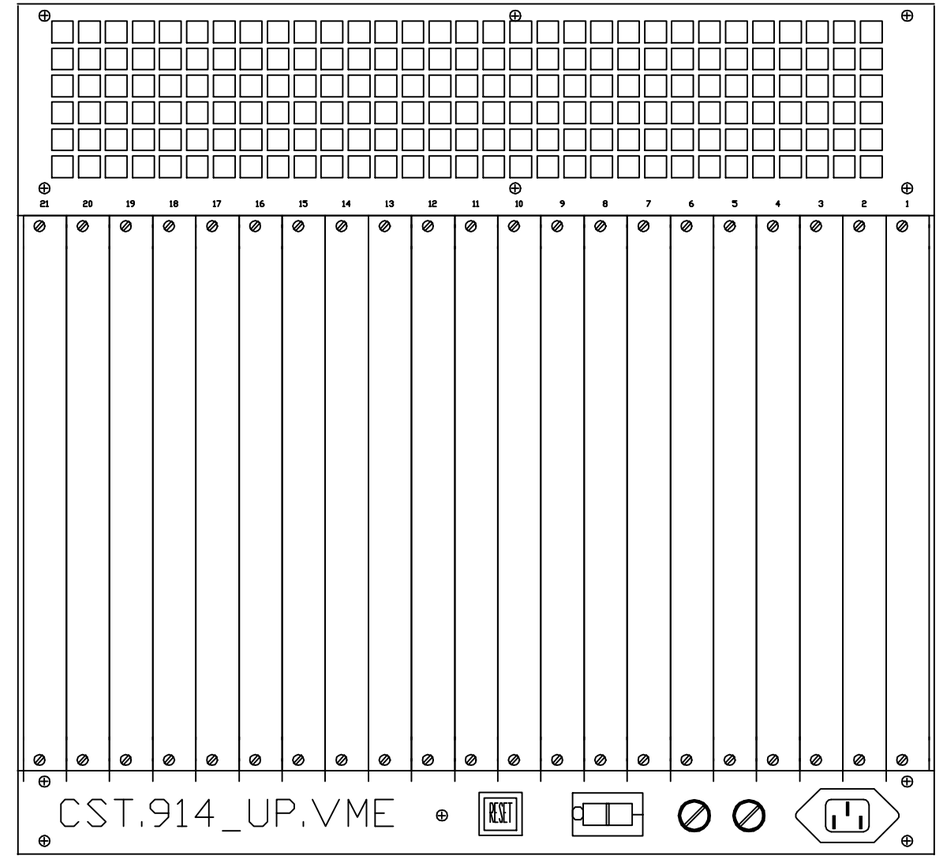
*AUTOCAD

REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

BNL, BNL 12/28/00 8:29 AM D09-E-RD2784.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./BNL NO.
		-	-	-	-	-
		1	SLOT 21	6	ALLEN BRADLEY 1014D 488 GPIB CONTRLLER	-
		1	SLOT 4	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	POWER3E
		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

		DATE
DRAWN BY	Jappe	3/21/2000
CHECKED BY		
DESIGN APPROVAL		
ENGINEER APPROVAL		
SUPVR. APPROVAL		

NEXT ASSEMBLY

BROOKHAVEN NATIONAL LABORATORY
UPTON, N.Y. 11973

CAD CONTROLS

BLDG. 914E RACK 4841

VME CHASSIS CST.914_UP.VME

SIZE A | DRAWING NUMBER D09-E-RD2784 | REV. A

MATERIAL: ——— SCALE: NA WEIGHT: - SHEET 2

1 *AUTOCAD

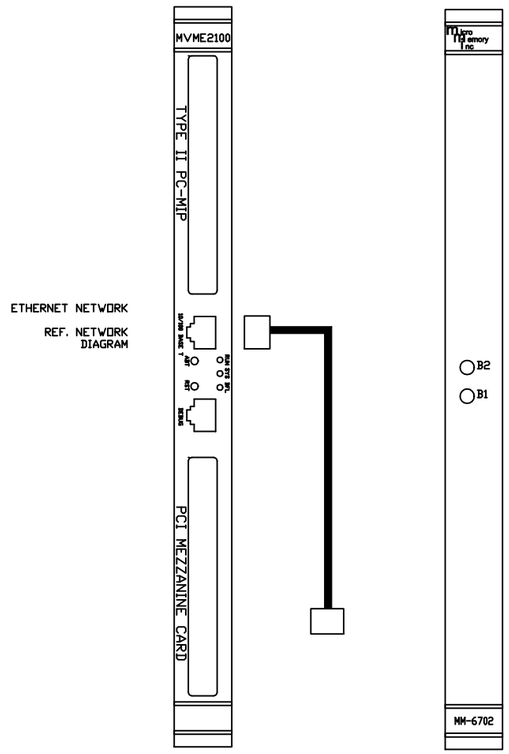
BNL, BNL 12/28/00 8:36 AM D09-E-RD2785.dwg

REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

FRONT END COMPUTER
BLDG #: 914E
RACK #: 4841
CHASSIS ID: CST.914_UP.VME
SLOT#: 1
FEC NAME: CST.914_UP.VME

DEVICE: MM-6702 MEMORY MODULE
BLDG #: 914E
RACK #: 4841
CHASSIS ID: CST-914-VME2
SLOT #: 2
A24 BASE ADDRESS: XXX

DEVICE: V108 UTILITY MODULE
BLDG #: 914E
RACK #: 4841
CHASSIS ID: CST.914_UP.VME
SLOT #: 3
A24 BASE ADDRESS: 0XF0004000



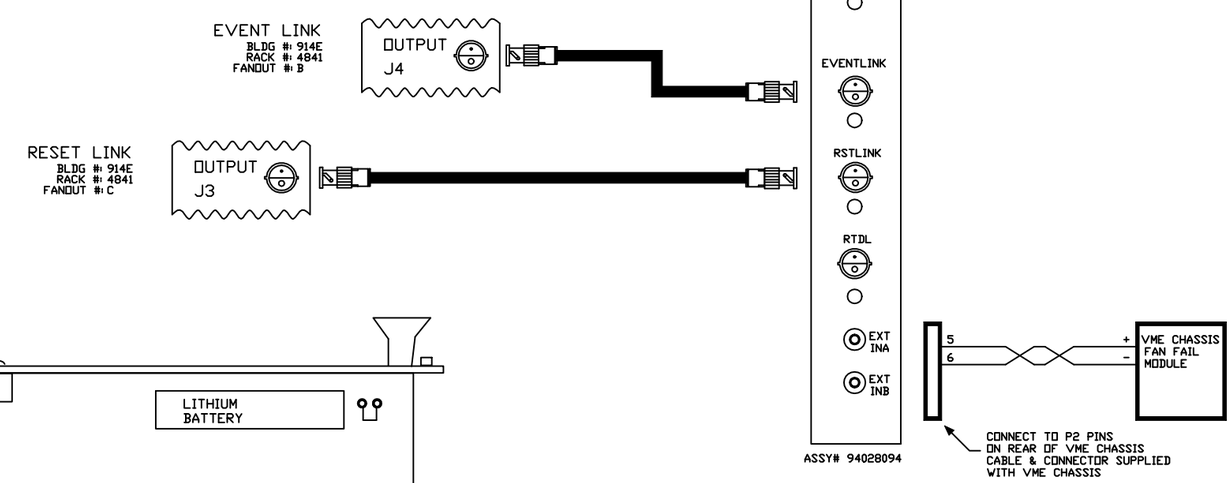
JUMPER LIST
1. REMOVE E1.
2. INSTALL E15.
3. SW3 CLOSE ALL POSITIONS.
4. SW2 CLOSE POSITIONS 7 AND 8.
5. SW1 CLOSE POSITIONS 2-8.
6. INSTALL E14 AND E25 TO ENABLE BATTERIES

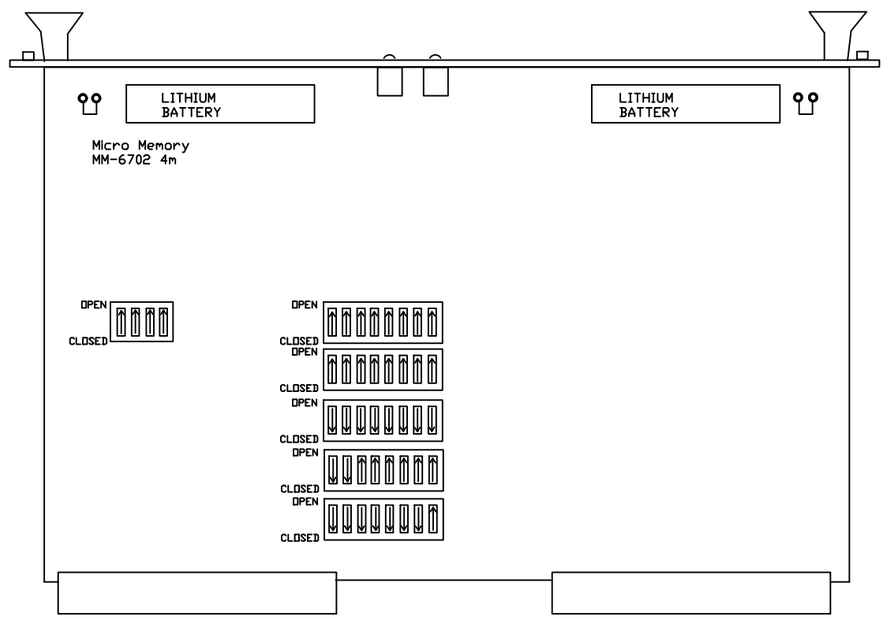
JUMPER LIST

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
E57-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





TO SET UP BOOT PARAMS FOR THE FEC
ON A X-TERM RUN StartUp
Top of StartUp

go to diagnostics
then Servers
then AGS VME stations
then pick a station you want the params for
then fec diagnostics
then Show Boot Params (PPC) (power PC)

-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 ±.XXX .XX ±.XXX .XXX ±.XXX
ANGULAR TOLERANCE ± XXX
NA FINISH
BREAK SHARP EDGES MAX. XX MIN. XX
OUTSTANDING ECN

Q.A. CATEGORY A-3
DRAWN BY Jappe DATE 2/3/2000
CHECKED BY
DESIGN APPROVAL
ENGINEER APPROVAL
SUPVR. APPROVAL
NEXT ASSEMBLY

BROOKHAVEN NATIONAL LABORATORY
ASSOCIATED UNIVERSITIES, INC.
UPTON, N.Y. 11973

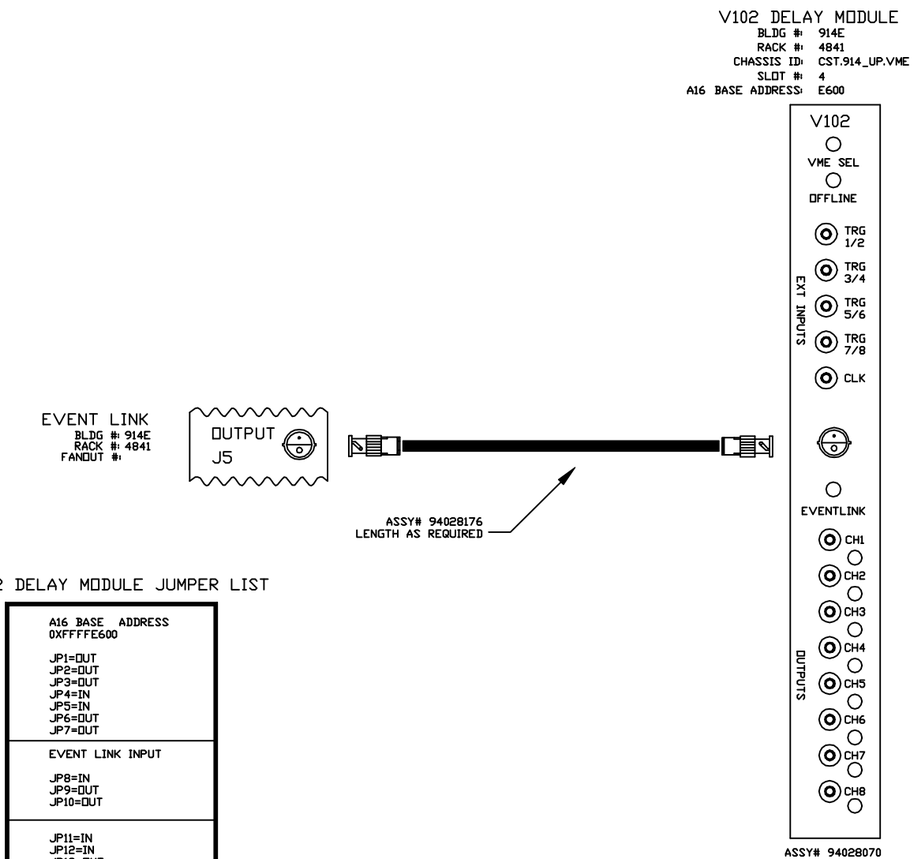
CAD WIRING DIAGRAM
914E VME CHASSIS CST.914_UP.VME
CPU/MEMORY /V108 UTIL MODULE

SIZE A
D09-E-RD2785
DRAWING NUMBER
REV. A
MATERIAL: ——— SCALE: NA WEIGHT: – SHEET 3

*AUTOCAD

REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

BNL, BNL 12/28/00 8:38 AM D09-E-RD2786.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 ±XXX
.XX ±XXX
.XXX ±XXX
ANGULAR TOLERANCE
± XXX

OUTSTANDING ECN

NA FINISH

BREAK SHARP EDGES
MAX. XX MIN. XX

Q.A. CATEGORY A-3		DATE
DRAWN BY	Warren Jappe	2/3/2000
CHECKED BY		
DESIGN APPROVAL		
ENGINEER APPROVAL		
SUPVR. APPROVAL		

NEXT ASSEMBLY

BROOKHAVEN NATIONAL LABORATORY
UPTON, N.Y. 11973

CAD WIRING DIAGRAM

BLDG.914E CHASSIS CST.914_UP.VME

V102 DELAY MODULE

SIZE A | D09-E-RD2786 | REV. A

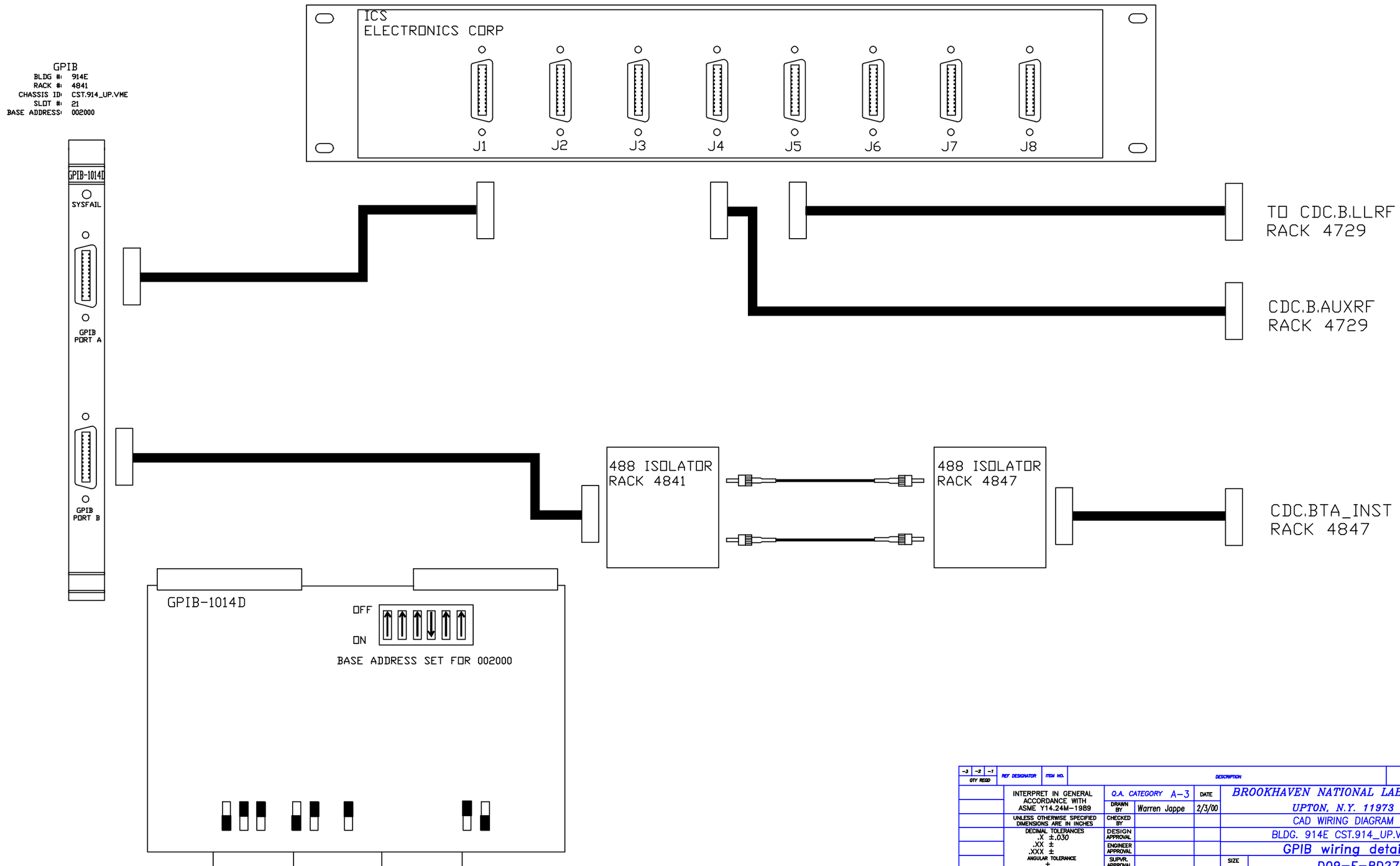
DRAWING NUMBER

MATERIAL: ——— SCALE: NA WEIGHT: SHEET 4

*AUTOCAD

REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

BNL, BNL 12/28/00 8:41 AM D09-E-RD2787.dwg

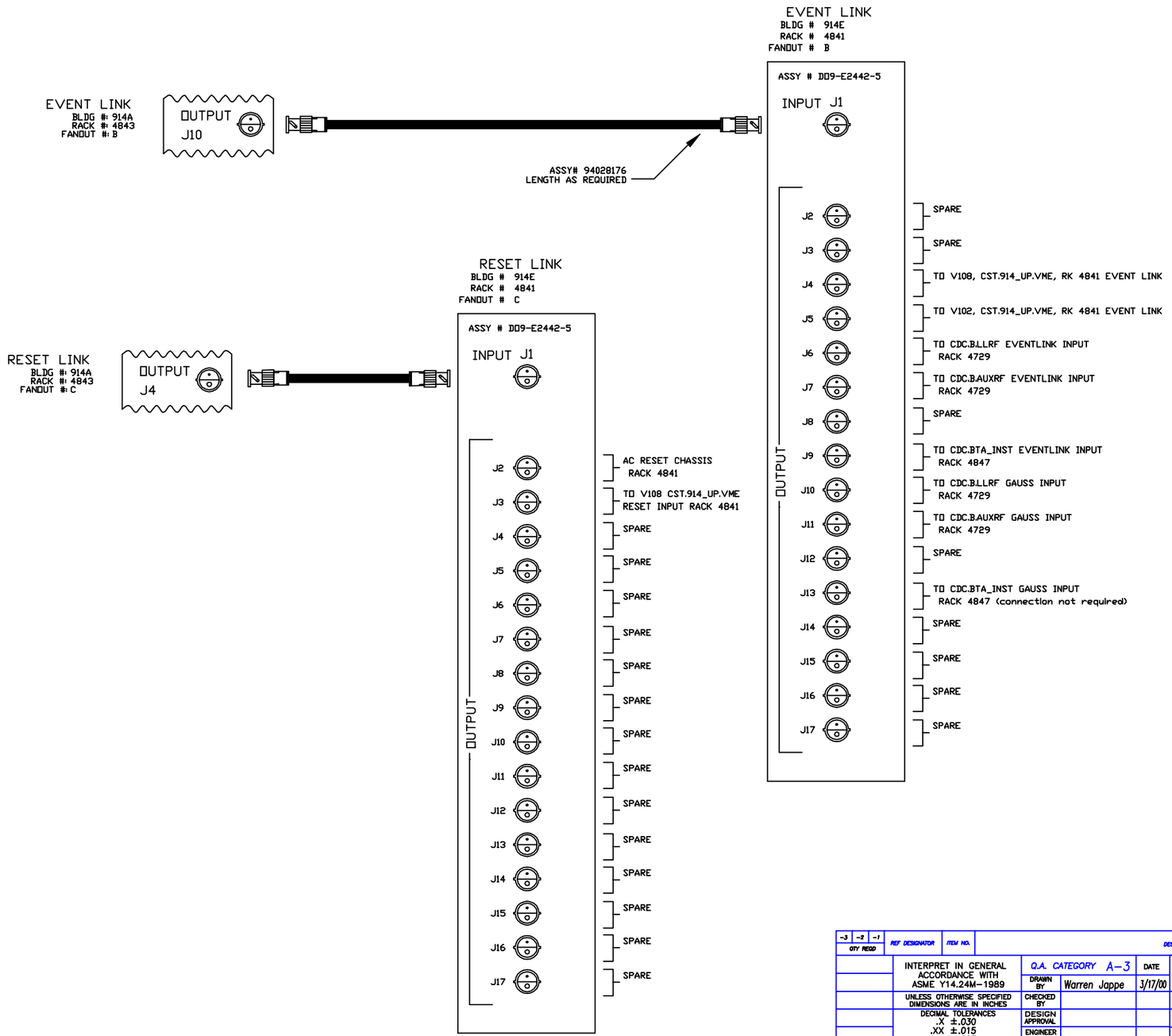


-3	-2	-1	REF DESIGNATOR	ITEM NO.	DESCRIPTION	MAT'L DWG NO.,BNL NO.
QTY REQD						

INTERPRET IN GENERAL ACCORDANCE WITH ASME Y14.24M-1989	Q.A. CATEGORY A-3	DATE	BROOKHAVEN NATIONAL LABORATORY
	DRAWN BY Warren Jappe	2/3/00	UPTON, N.Y. 11973
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	CHECKED BY		CAD WIRING DIAGRAM
DECIMAL TOLERANCES .X ±.030 .XX ± .XXX ± ANGULAR TOLERANCE ±	DESIGN APPROVAL		BLDG. 914E CST.914_UP.VME
	ENGINEER APPROVAL		GPIB wiring detail
	SUPVR. APPROVAL		SIZE A — D09-E-RD2787 — REV. A
NA FINISH — BREAK SHARP EDGES MAX. XX MIN. XX	NEXT ASSEMBLY		DRAWING NUMBER
OUTSTANDING ECN			MATERIAL: n/a — SCALE: n/a — WEIGHT: – — SHEET 5

*AUTOCAD

BNL, BNL 12/28/00 8:43 AM D09-E-RD2788.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	Warren Jappe	3/17/00
CHECKED BY		
DESIGN APPROVAL		
ENGINEER APPROVAL		
SUPVR. APPROVAL		

NEXT ASSEMBLY

BROOKHAVEN NATIONAL LABORATORY
UPTON, N.Y. 11973

CAD WIRING DIAGRAM

914E CST.914_UP.VME

EVENT LINK DETAIL

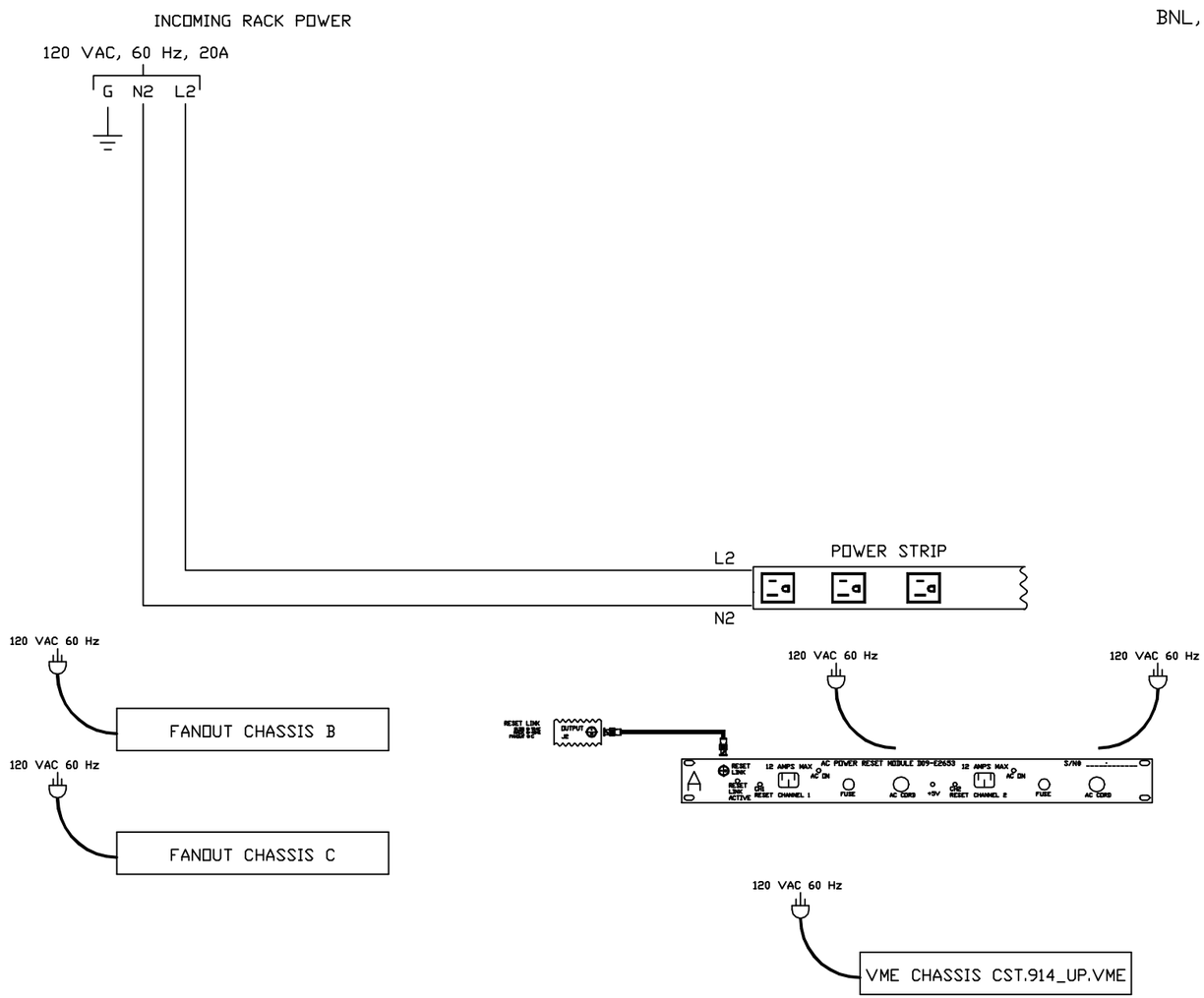
SIZE A | DRAWING NUMBER D09-E-RD2788 | REV. A

MATERIAL: ——— SCALE: NA WEIGHT: – SHEET 6

*AUTOCAD

REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

BNL, BNL 12/28/00 8:47 AM D09-E-RD2789.dwg



NOTE: ALL 120 VAC, 60 Hz POWER CORDS
PLUG INTO POWER STRIP OUTLETS EXCEPT FOR 6U VME CHASSIS

RACK 4841

-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 ASSOCIATED UNIVERSITIES, INC. UPTON, N.Y. 11973
	DRAWN BY Jappe	3/17/00	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	CHECKED BY		CAD WIRING DIAGRAM
DECIMAL TOLERANCES .X ±.030 .XX ±.015 .XXX ±.005 ANGULAR TOLERANCE ± .5°	DESIGN APPROVAL		914E RACK 4841
	ENGINEER APPROVAL		POWER DISTRIBUTION
	SUPVR. APPROVAL		SIZE / DRAWING NUMBER D09-E-RD2789 / REV.
NA FINISH / BREAK SHARP EDGES MAX. XX MIN. XX	NEXT ASSEMBLY		MATERIAL: ——— SCALE: NA WEIGHT: SHEET 7
OUTSTANDING ECN			

*AUTOCAD