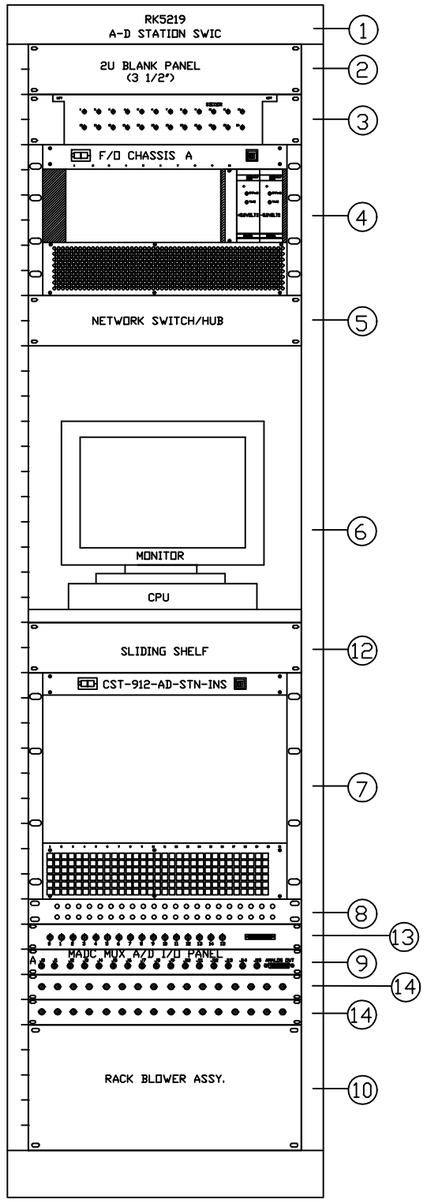
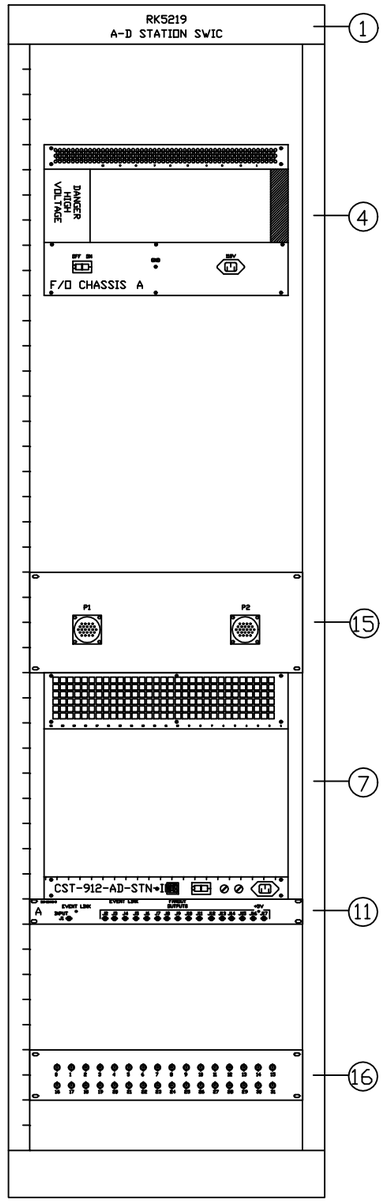
REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

CONTROLS-3/28/01 3:59 PM RK5219.dwg



REAR



		1	16	16	2U BNC PATCH PANEL	X
		1	15	15	P1P2 PATCH PANEL	X
		2	14	14	1U BNC PATCH PANEL	X
		1	13	13	MADC I/O PANEL (SINGLE ENDED BNC TYPE)	X
		1	12	12	SLIDING SHELF	X
		1	11	11	FANOUT CHASSIS	DD9-E2442-5
		1	10	10	RACK BLOWER ASSY.	X
		1	9	9	MADC I/O PANEL (NON-BUFFER)	X
		1	8	8	GROMMET PANEL	X
		1	7	7	6U VME CHASSIS	X
		1	6	6	XTERM	X
		1	5	5	NETWORK SWITCH/HUB	X
		1	4	4	3U F/O CHASSIS	X
		1	3	3	SIECOR F/O TERMINATION BOX	CNP-024-15
		1	2	2	2U BLANK PANEL	X
		1	1	1	RACK	X

-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	A.W.	3/28/01
CHECKED BY		
DESIGN APPROVAL		
ENGINEER APPROVAL		
SUPVR. APPROVAL		

NEXT ASSEMBLY

DATE

BROOKHAVEN NATIONAL LABORATORY
UPTON, N.Y. 11973

A-D STATION SWIC
ASSEMBLY

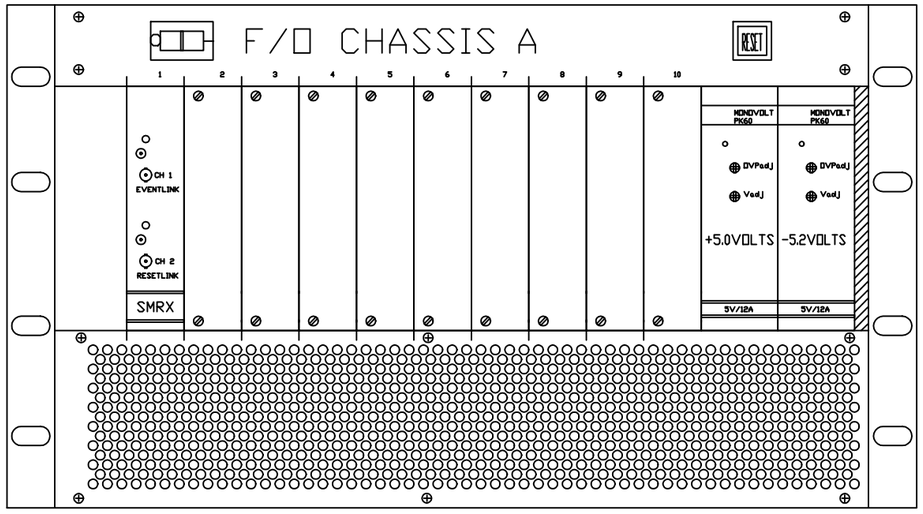
SIZE D | DRAWING NUMBER | REV. A

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

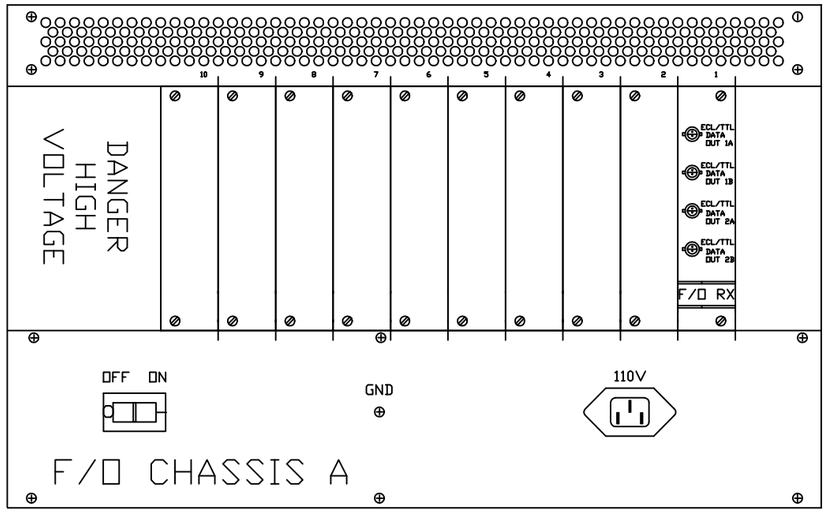
8 7 6 5 4 3 2 1 *AUTOCAD

REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

CONTROLS- 3/28/01 4:13 PM F0CHASSIS.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.
		AR	4	4	3U BLANK PANELS	X
		1	3	3	F/O RECIEVER TRANSITION MODULE	X
		1	2	2	F/O RECIEVER, SM	X
		1	1	1	3U F/O CHASSIS	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°

OUTSTANDING ECN

NA FINISH

BREAK SHARP EDGES
MAX. XX MIN. XX

Q.A. CATEGORY A-3

		DATE
DRAWN BY	A. W.	3/28/01
CHECKED BY		
DESIGN APPROVAL		
ENGINEER APPROVAL		
SUPVR. APPROVAL		

NEXT ASSEMBLY

BROOKHAVEN NATIONAL LABORATORY
UPTON, N.Y. 11973

A-D STATION

F/O CHASSIS

ASSEMBLY

SIZE D | Drawing Number | REV. A

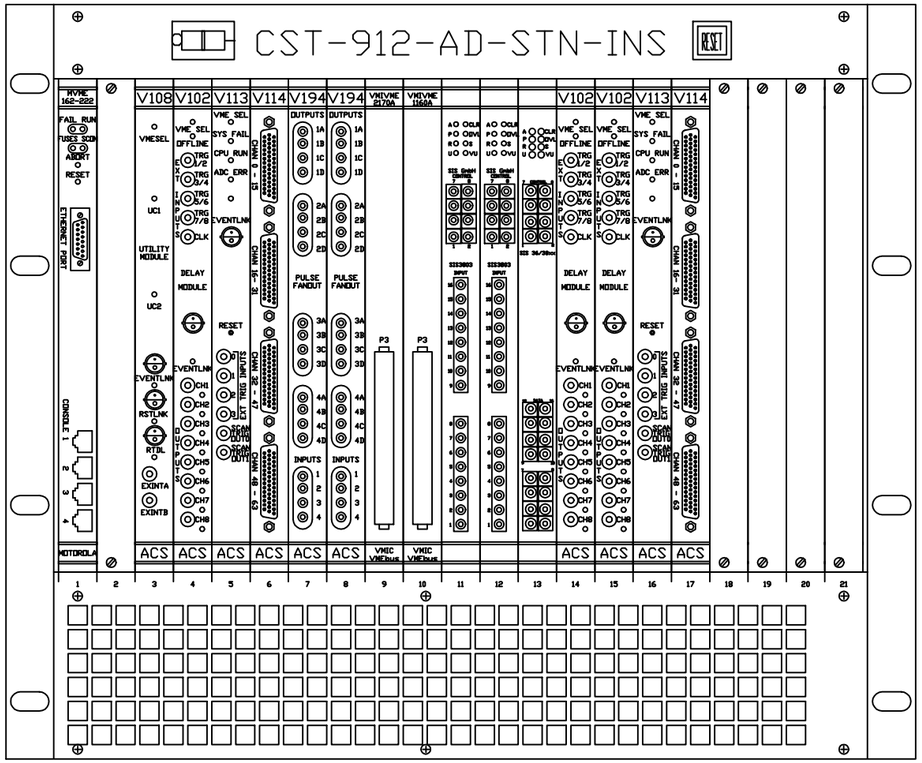
DRAWING NUMBER

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

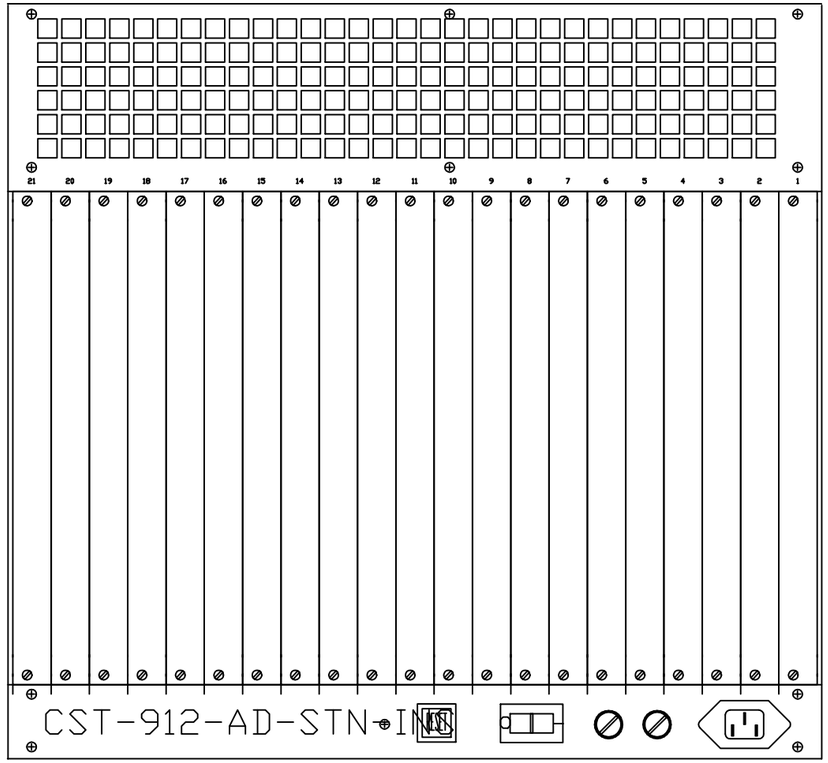
*AUTOCAD

REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

CONTROLS- 3/29/01 11:39 AM VMECHASSIS.dwg



FRONT VIEW



REAR VIEW

		1	SLOT 13	10	SIS36/38xx		X
		2	SLOT 11,12	9	SIS3803		X
		1	SLOT 10	8	VMIVME 1160A		X
		1	SLOT 9	7	VMIVME 2170A		X
		2	SLOT 7,8	6	V194		X
		2	SLOT 6,17	5	V114		X
		2	SLOT 5,16	4	V113		X
		3	SLOT4,14,15	3	V102		X
		1	SLOT 3	2	V108		X
		1	SLOT 1	2	MOTOROLA CPU BD.		MVME 162-222
		1		1	VME CHASSIS 6U		X
-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 A. W.	3/29/01	UPTON, N.Y. 11973
DECIMAL TOLERANCES .X ±.030 .XX ±.015 .XXX ±.005 ANGULAR TOLERANCE ± .5°	CHECKED BY		A-D STATION
	DESIGN APPROVAL		VME CHASSIS
	ENGINEER APPROVAL		ASSEMBLY
	SUPVR. APPROVAL		SIZE D — Drawing Number — REV. A
NA FINISH — BREAK SHARP EDGES — MAX. XX MIN. XX	NEXT ASSEMBLY		DRAWING NUMBER
OUTSTANDING ECN			MATERIAL: —— SCALE: FULL WEIGHT: – SHEET 1 OF 1

*AUTOCAD

REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

CONTROLS- 3/21/01 8:47 AM ADFOWIR.dwg

RK5035
BLDG.911
2nd.FLOOR
AGS F/O CHASSIS
SLOT 1 REAR

ECL/TTL DATA IN 1
ECL/TTL DATA IN 2
F/O TX

CABLE ASSY.94028176
4' 2places

RK5035
BLDG.911
2nd.FLOOR
AGS F/O CHASSIS
SLOT 1

1300nM MULTI-MODE
CHAN 1 ACTIVE
TEST PT
CH 1 OUTPUT
RESET RESET LINK
CHAN 2 ACTIV
TEST PT
CH 2 OUTPUT
EVENT EVENT LINK
MMTX

MATH ASSOC. F/O TX
BLDG #: 911-B
RACK #: 5322
CHASSIS ID: A
SLOT #: 1
BASE ADDRESS: NA

MODEL 7430-1
MATH ASSOC.
XMIT
BNC INPUT
REAR

FROM AGS TIMING SYSTEM, CFE-911-RES
V194, SL 11, OUTPUT 4C, FEB PREBUNCH

911,2nd,FL.
WALL
CHASSIS F/O PP

SEE J.GOULD FOR ETHERNET DOCUMENTATION

SPARE
REAR
A FRONT

911 2nd. FL.
WALL
CHASSIS F/O PP

SPARE
SPARE
SPARE
SPARE
SPARE
SPARE
REAR
B FRONT

CABLE FROM
911 2ND. FLOOR
TO A-D STATION

CABLE ASSY.

BLDG.EEBA
RACK#5219
SIECORCHASSIS"A"

REAR
FRONT

BLDG. EEBA
RACK 5219
ETHERNET HUB CHASSIS

MX26F
TRANSCIEVER
XMIT
RECIEVE

BLDG. EEBA
RACK 5219
ETHERNET HUB CHASSIS

mr820tr
ethernet hub
repeater
ports

CABLE ASSY.94028251
6 places

To sheet 2

BLDG. EEBA
RACK 5219
A-D STATION SWIC
F/O CHASSIS
SLOT 1

CH 1
RESET LINK
RESET
CH 2
EVENT LINK
EVENT
SMRX

MATH ASSOC. F/O RX
BLDG #: 912
RACK #: ?
CHASSIS ID: A
SLOT #: 1
BASE ADDRESS: NA

MODEL 7430-1
MATH ASSOC.
RCV
BNC OUTPUT
REAR

FEB PREBUNCH
TO ??

D09-E2442-5
B
EVENT LINK
INPUT J1
EVENT LINK FANOUT OUTPUTS
J2 J3 J4 J5 J6 J7 J8 J9 J10 J11 J12 J13 J14 J15 J16 +5V J17

BLDG. 911 2nd FL.
RACK 5322
EVENT FANOUT

D09-E2442-5
A
EVENT LINK
INPUT J1
RESET LINK FANOUT OUTPUTS
J2 J3 J4 J5 J6 J7 J8 J9 J10 J11 J12 J13 J14 J15 J16 +5V J17

BLDG. 911 2nd FL.
RACK 5322
RESET FANOUT

-3	-2	-1	QTY REQD	REF DESIGNATOR	ITEM NO.	DESCRIPTION	MAT'L DWG NO./BNC 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 N.S. DATE 12/04/97
CHECKED BY
DESIGN APPROVAL
ENGINEER APPROVAL
SUPVR. APPROVAL
NEXT ASSEMBLY

BROOKHAVEN NATIONAL LABORATORY
UPTON, N.Y. 11973
A-D STATION SWIC
SWIC F/O WIRING
Drawing Title
SIZE D
Drawing Number
DRAWING NUMBER
REV. A
MATERIAL: —— SCALE: FULL WEIGHT: – SHEET 1 OF 2

*AUTOCAD

REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

CONTROLS- 3/29/01 2:11 PM ADWIR1.dwg

BLDG. EEBA
RACK5219
A-D STA. EVENT FANOUT CHASSIS
REAR OF RACK

D09-E2442-5

EVENT LINK INPUT J1

EVENT LINK FANOUT OUTPUTS J2 J3 J4 J5 J6 J7 J8 J9 J10 J11 J12 J13 J14 J15 J16

+5V J17

BLDG. EEBA
RACK5219
A-D STA. F/O CHASSIS
SLOT 1 REAR

F/O RX
ECL/TTL DATA OUT 1A
ECL/TTL DATA OUT 1B
ECL/TTL DATA OUT 2A
ECL/TTL DATA OUT 2B

CPU 162-222
BLDG #: 912
RACK #: 5219
CHASSIS ID: CST-912-AD-STN-INS
SLOT #: 1
AXX BASE ADDRESS: XXXXXXXX

MVME 162-222
FAIL RUN
FUSES SCAN
ABORT
RESET
ETHERNET PORT
CONSOLE 1 2 3 4
MOTOROLA

CentrCOM 210TS
TWISTED PAIR TRANSCEIVER
IEEE 802.3 10BASET
LINK
SQE TEST
POLARITY
POWER

NETWORK SWITHC/HUB
BLDG #: 912
RACK #: 5219
PORT

V108
BLDG #: 912
RACK #: 5219
CHASSIS ID: CST-912-AD-STN-INS
SLOT #: 3
AXX BASE ADDRESS: XXXXXXXX

V108
VMESEL
UC1
UTILITY MODULE
UC2
EVENTLNK
RSTLNK
RTDL
EXINTA
EXINTB
ACS

V102
BLDG #: 912
RACK #: 5219
CHASSIS ID: CST-912-AD-STN-INS
SLOT #: 4
AXX BASE ADDRESS: XXXXXXXX

V102
VME_SEL
OFFLINE
EXT TRG 1/2
EXT TRG 3/4
INPUTS TRG 5/6
INPUTS TRG 7/8
CLK
DELAY MODULE
EVENTLNK
OUTPUTS CH1 CH2 CH3 CH4 CH5 CH6 CH7 CH8
ACS

V113
BLDG #: 912
RACK #: 5219
CHASSIS ID: CST-912-AD-STN-INS
SLOT #: 5
AXX BASE ADDRESS: XXXXXXXX

V113
VME_SEL
SYS FAIL
CPU RUN
ADC ERR
EVENTLNK
RESET
EXT TRIG INPUTS 0 1 2 3
SCAN TRIG OUT0
SCAN TRIG OUT1
ACS

V102
BLDG #: 912
RACK #: 5219
CHASSIS ID: CST-912-AD-STN-INS
SLOT #: 14
AXX BASE ADDRESS: XXXXXXXX

V102
VME_SEL
OFFLINE
EXT TRG 1/2
EXT TRG 3/4
INPUTS TRG 5/6
INPUTS TRG 7/8
CLK
DELAY MODULE
EVENTLNK
OUTPUTS CH1 CH2 CH3 CH4 CH5 CH6 CH7 CH8
ACS

V102
BLDG #: 912
RACK #: 5219
CHASSIS ID: CST-912-AD-STN-INS
SLOT #: 15
AXX BASE ADDRESS: XXXXXXXX

V102
VME_SEL
OFFLINE
EXT TRG 1/2
EXT TRG 3/4
INPUTS TRG 5/6
INPUTS TRG 7/8
CLK
DELAY MODULE
EVENTLNK
OUTPUTS CH1 CH2 CH3 CH4 CH5 CH6 CH7 CH8
ACS

V113
BLDG #: 912
RACK #: 5219
CHASSIS ID: CST-912-AD-STN-INS
SLOT #: 16
AXX BASE ADDRESS: XXXXXXXX

V113
VME_SEL
SYS FAIL
CPU RUN
ADC ERR
EVENTLNK
RESET
EXT TRIG INPUTS 0 1 2 3
SCAN TRIG OUT0
SCAN TRIG OUT1
ACS

-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°

Q.A. CATEGORY A-3

		DATE
DRAWN BY	A. W.	3/29/01
CHECKED BY		
DESIGN APPROVAL		
ENGINEER APPROVAL		
SUPVR. APPROVAL		

NEXT ASSEMBLY

OUTSTANDING ECN

NA FINISH

BREAK SHARP EDGES MAX. XX MIN. XX

BROOKHAVEN NATIONAL LABORATORY
UPTON, N.Y. 11973

A-D STATION SWIC
CST-912-AD-STN-INS
WIRING

SIZE D | XXXX | REV. A
DRAWING NUMBER

MATERIAL: ——— | SCALE: FULL | WEIGHT: – | SHEET 2 OF 2

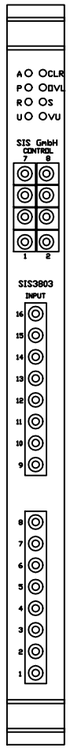
1 *AUTOCAD

REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

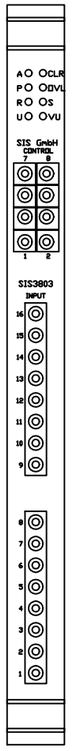
BNL 10/12/01 10:43 AM AD_SCALER.dwg

AD STATION SCALLERS/COUNTERS/IO

SIS3803 SCALER #1
BLDG #: 912
RACK #: RK-5219
CHASSIS ID: CST.912.AD.STN_INS
SLOT #: 11
A32 BASE ADDRESS: 0X8383000

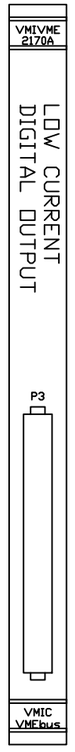


SIS3803 SCALER #2
BLDG #: 912
RACK #: RK-5219
CHASSIS ID: CST.912.AD.STN_INS
SLOT #: 12
A32 BASE ADDRESS: 0X8384000

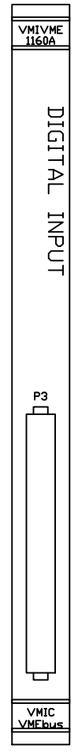


SIS36_SC SCALER #3
BLDG #: 912
RACK #: 5219
CHASSIS ID: CST.912.AD.STN_INS
SLOT #: 13
A32 BASE ADDRESS: 0X8385000

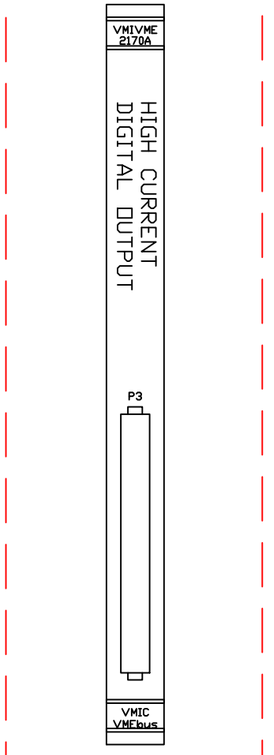
BLDG. 912
RACK5219
CST.912.AD.STN_INS
SLOT 9
A16 0xE100



BLDG. 912
RACK5219
CST.912.AD.STN_INS
SLOT 10
A16 0xE000



BLDG. 912
RACK5219
CST.912.AD.STN_INS
SLOT ????
A16 0xE104



1 ST. BOARD ADDRESS JUMPERS

EN_A16:	OUT	J101-108:	IN
EN_A24:	OUT	J115:	OUT
EN_A32:	IN	J500:	IN
		J520:	IN

SW_A32U: 0
SW_A32L: 8
SW_A24U: 3
SW_A24L: 8
SW_A16U: 3

J_A11: IN

2 ND. BOARD ADDRESS JUMPERS

EN_A16:	OUT	J101-108:	IN
EN_A24:	OUT	J115:	OUT
EN_A32:	IN	J500:	IN
		J520:	IN

SW_A32U: 0
SW_A32L: 8
SW_A24U: 3
SW_A24L: 8
SW_A16U: 4

J_A11: IN

3 RD. BOARD ADDRESS JUMPERS

EN_A16:	OUT	J101-108:	IN
EN_A24:	OUT	J115:	OUT
EN_A32:	IN	J500:	IN
		J520:	IN

SW_A32U: 0
SW_A32L: 8
SW_A24U: 3
SW_A24L: 8
SW_A16U: 5

J_A11: IN

-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 Koropsak | 10/12/01
CHECKED BY
DESIGN APPROVAL
ENGINEER APPROVAL
SUPVR. APPROVAL
NEXT ASSEMBLY

BROOKHAVEN NATIONAL LABORATORY
UPTON, N.Y. 11973
CA- CONTROLS
AD STATION
SCALERS

SIZE D | DRAWING NUMBER | REV. A
MATERIAL: ——— | SCALE: NA | WEIGHT: – | SHEET

1 *AUTOCAD