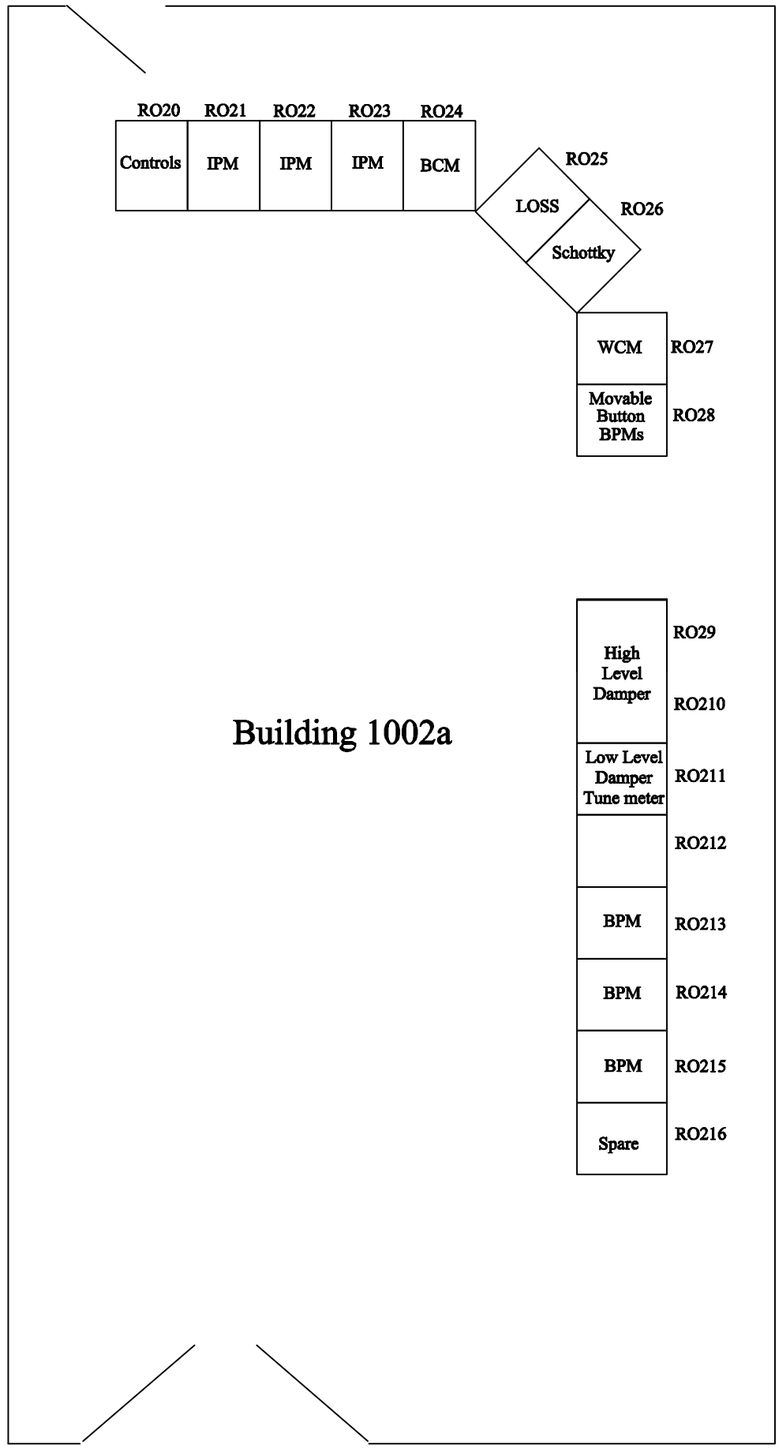
ACS, BNL 1/31/00 11:43 AM 8720.dwg



REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

-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	Al Watson	1/31/00
CHECKED BY		
DESIGN APPROVAL		
ENGINEER APPROVAL		
SUPVR. APPROVAL		

NEXT ASSEMBLY

BROOKHAVEN NATIONAL LABORATORY
UPTON, N.Y. 11973

RHIC CONTROLS

SERVICE BLDG 1002A TUNE METER

FLOOR LAYOUT

SIZE D | DRAWING NUMBER 94028720 | REV. A

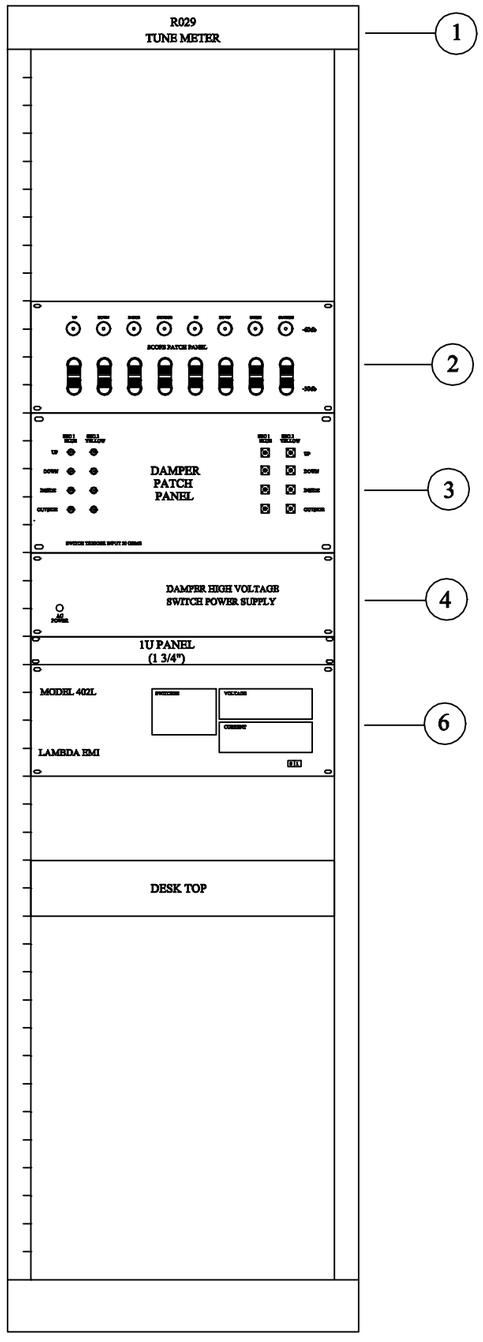
MATERIAL: | SCALE: FULL | WEIGHT: | SHEET 1

*AUTOCAD

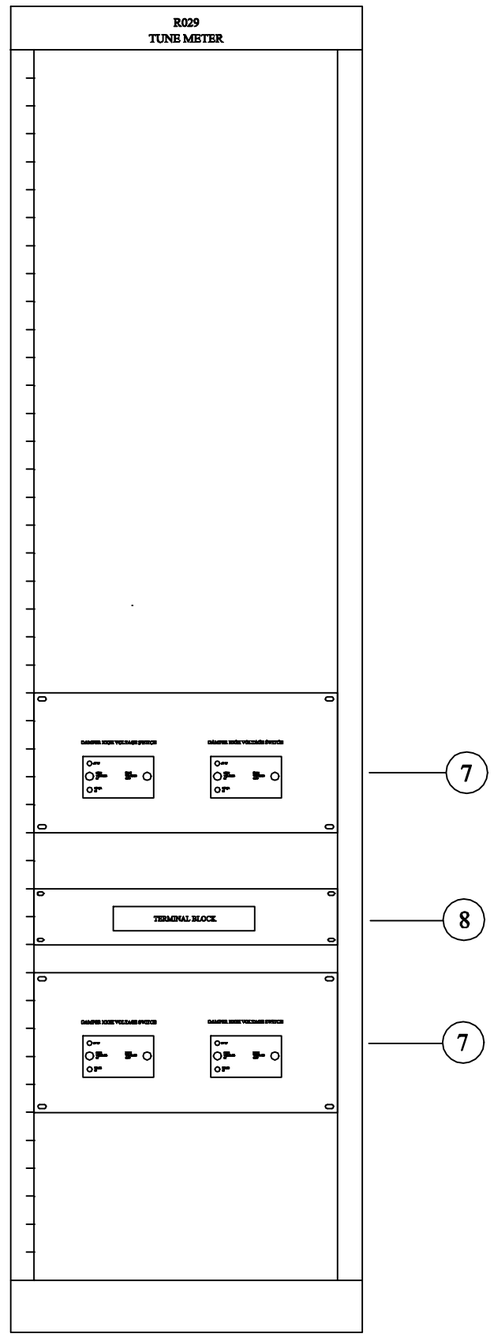
REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

BNL, BNL 4/19/00 9:54 AM 8822.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	NA	10	10x32 SCREWS 1/2" BINDHEAD SCREWS	T-32276
		AR	NA	9	BLANK PANELS	X
		1	NA	8	2U TERMINAL BLOCK PANEL	X
		8	NA	7	HIGH VOLTAGE SWITCHES	X
		1	NA	6	LAMBDA EMI MODEL 402L POWER SUPPLY	X
		1	NA	5	1U x 19" BLANK PANEL (PREMIER METAL ARP-119-553)	X
		1	NA	4	DAMPER HIGH VOLTAGE SWITCH POWER SUPPLY	X
		1	NA	3	DAMPER PATCH PANEL	X
		1	NA	2	SCOPE PATCH PANEL	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

		DATE
DRAWN BY	Al Watson	3/8/00
CHECKED BY		
DESIGN APPROVAL		
ENGINEER APPROVAL		
SUPVR. APPROVAL		

NEXT ASSEMBLY

BROOKHAVEN NATIONAL LABORATORY
UPTON, N.Y. 11973
RHIC CONTROLS
SERVICE BLDG. 1002A TUNE METER
RACK R029

SIZE D
DRAWING NUMBER 94028822
REV. A

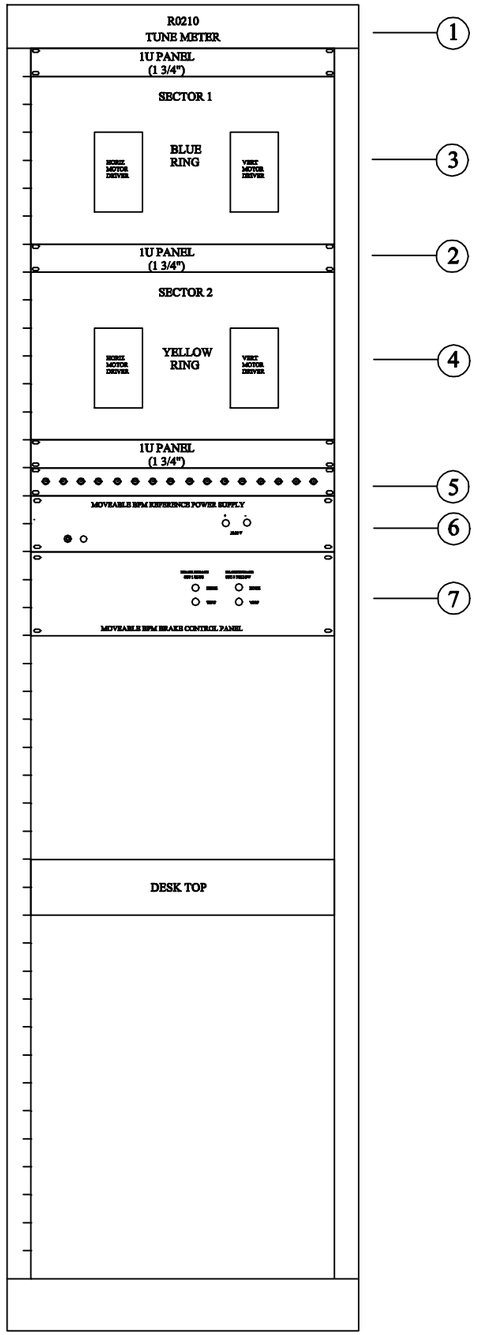
MATERIAL: SCALE: FULL WEIGHT: SHEET 1

*AUTOCAD

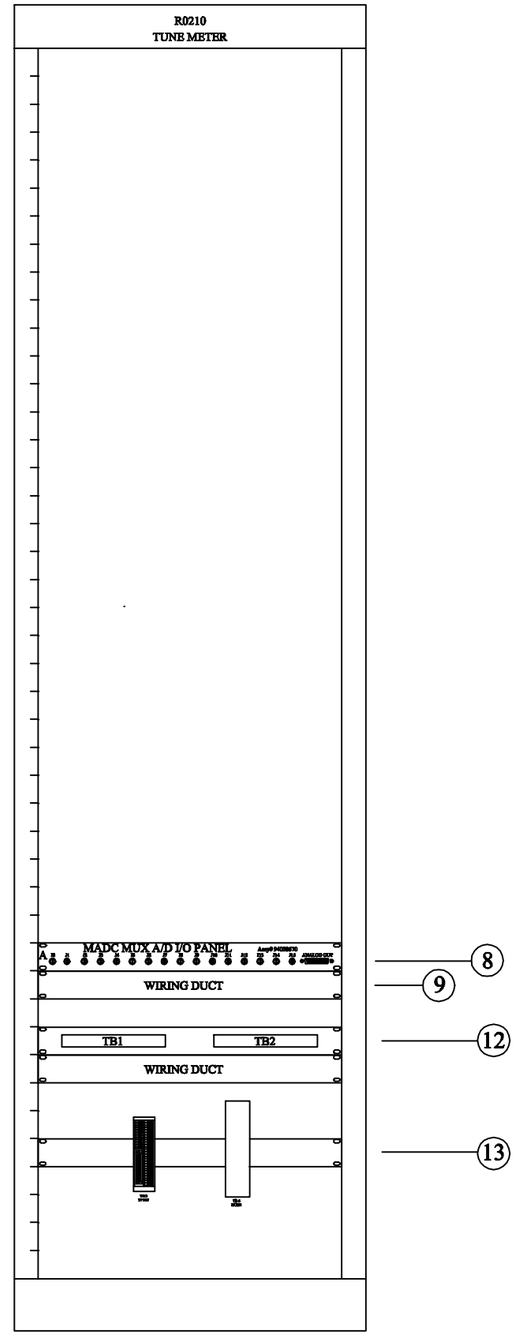
REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

BNL, BNL 4/19/00 11:29 AM 8823.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	NA	15	10x32 1/2" BINDHEAD MACHINE SCREWS	T-32276
		AR	NA	14	BLANK PANELS	X
		1	NA	13	TB3/TB4 TERMINAL PANEL	X
		1	NA	12	TB1/TB2 TERMINAL PANEL	X
		4	NA	11	WIRE DUCT SNAP CLIPS 1.5"W (PANDUIT SNS1.5-C)	X
		2	NA	10	WIRE DUCT COVER 1.5"W (PANDUIT C1.5LG6)	X
		2	NA	9	WIRE DUCT 1.5"W x 4"D (PANDUIT E1.5x4LG6)	X
		1	NA	8	MADC I/O PANEL	94028183
		1	NA	7	MBPM BRAKE CONTROL	X
		1	NA	6	MOVEABLE BPM REFERENCE POWER SUPPLY	X
		1	NA	5	BNC PATCH PANEL	X
		1	NA	4	MBPM MOTOR DRIVER 2	X
		1	NA	3	MBPM MOTOR DRIVER 1	X
		3	NA	2	1U x 19" BLANK PANEL (PREMIER METAL ARP-119-553)	X
		2	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°

OUTSTANDING ECN

NA FINISH

BREAK SHARP EDGES
MAX. XX MIN. XX

Q.A. CATEGORY A-3

		DATE
DRAWN BY	Al Watson	3/8/00
CHECKED BY		
DESIGN APPROVAL		
ENGINEER APPROVAL		
SUPVR. APPROVAL		

NEXT ASSEMBLY

BROOKHAVEN NATIONAL LABORATORY
UPTON, N.Y. 11973

RHIC CONTROLS

SERVICE BLDG. 1002A TUNE METER

RACK R0210

SIZE D | DRAWING NUMBER 94028823 | REV. A

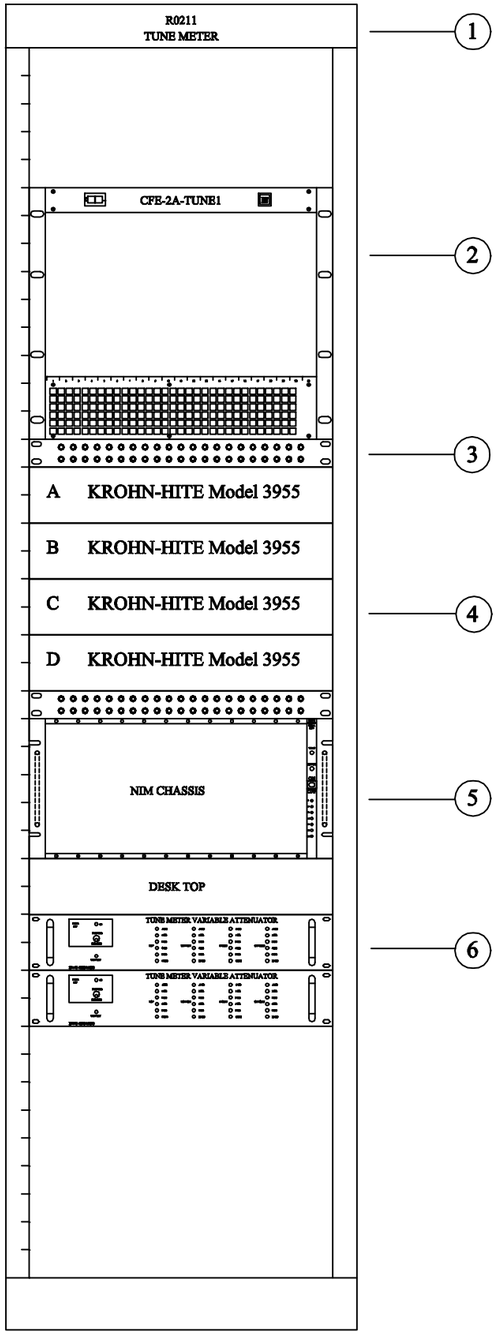
MATERIAL: | SCALE: FULL | WEIGHT: | SHEET 1

*AUTOCAD

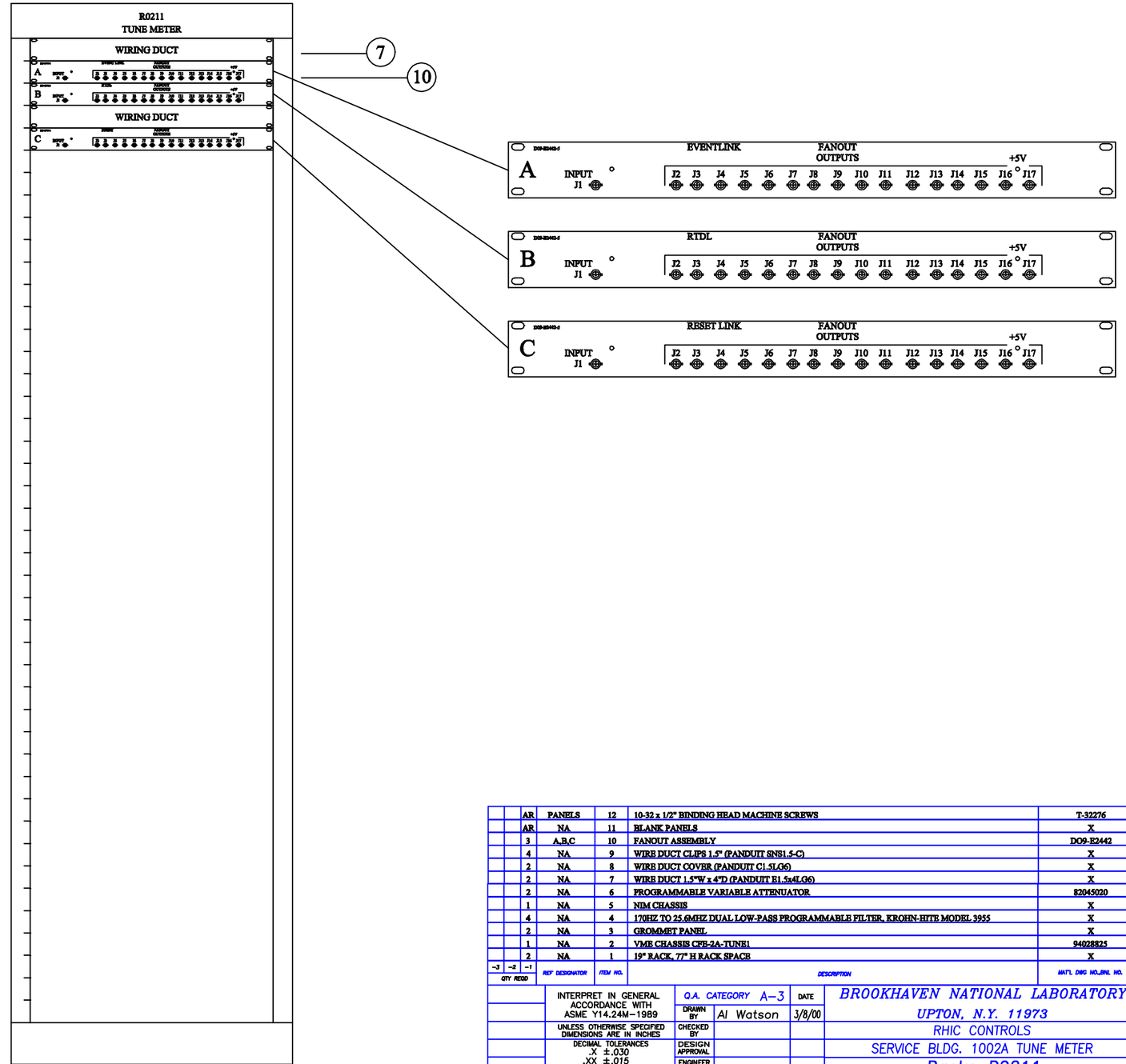
REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

BNL, BNL 4/20/00 8:26 AM 8824.dwg

FRONT VIEW



REAR VIEW



QTY REQD -3	QTY REQD -2	QTY REQD -1	REF DESIGNATOR	ITEM NO.	DESCRIPTION	MAT'L DWG NO.,BRL NO.
		AR	PANELS	12	10-32 x 1/2" BINDING HEAD MACHINE SCREWS	T-32276
		AR	NA	11	BLANK PANELS	X
		3	A,B,C	10	FANOUT ASSEMBLY	DO9-E2442
		4	NA	9	WIRE DUCT CLIPS 1.5" (PANDUIT SNS1.5-C)	X
		2	NA	8	WIRE DUCT COVER (PANDUIT C1.5LG6)	X
		2	NA	7	WIRE DUCT 1.5"W x 4"D (PANDUIT E1.5x4LG6)	X
		2	NA	6	PROGRAMMABLE VARIABLE ATTENUATOR	82045020
		1	NA	5	NIM CHASSIS	X
		4	NA	4	170HZ TO 25.6MHZ DUAL LOW-PASS PROGRAMMABLE FILTER, KROHN-HITE MODEL 3955	X
		2	NA	3	GROMMET PANEL	X
		1	NA	2	VME CHASSIS CFE-2A-TUNE1	94028825
		2	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°

OUTSTANDING ECN: NA

FINISH: √

BREAK SHARP EDGES MAX. XX MIN. XX

Q.A. CATEGORY A-3		DATE
DRAWN BY	Al Watson	3/8/00
CHECKED BY		
DESIGN APPROVAL		
ENGINEER APPROVAL		
SUPVR. APPROVAL		

NEXT ASSEMBLY

BROOKHAVEN NATIONAL LABORATORY
UPTON, N.Y. 11973

RHIC CONTROLS

SERVICE BLDG. 1002A TUNE METER

Racks R0211

SIZE: D

DRAWING NUMBER: 94028824

REV.: A

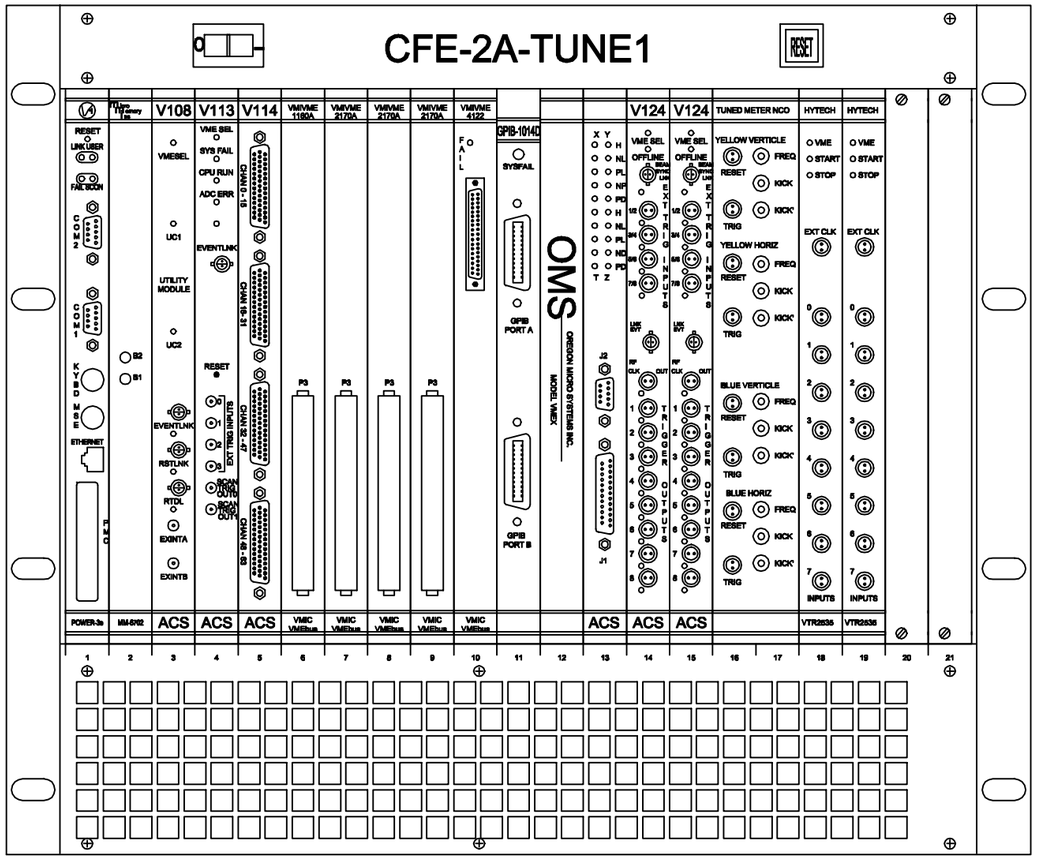
MATERIAL: SCALE: FULL WEIGHT: SHEET 1

*AUTOCAD

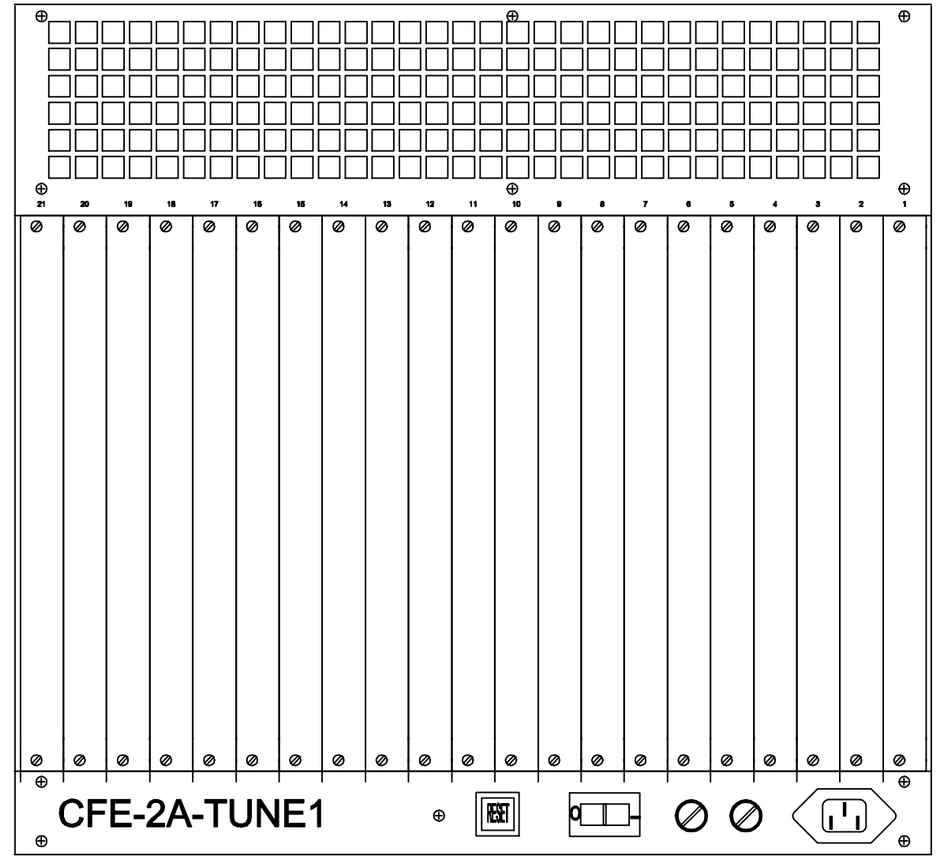
REV.	ZONE	ECN NO.	DATE	BY	CKR	APP.

BNL, BNL 4/20/00 8:59 AM 8825.dwg

FRONT VIEW



REAR VIEW



NOTE 1:

ALL UNUSED SLOTS REQUIRE BLANK PANELS.

QTY REQD -3	QTY REQD -2	QTY REQD -1	REF DESIGNATOR	ITEM NO.	DESCRIPTION	MAT'L DWG NO.,BNL NO.
		24	SEE NOTE 1	16	VME BLANK PANEL (ELECTRO-SPACE ESFE-2985)	
		2	4+5, 12+13	15	BACKPLANE JUMPER CABLE FOR V113/V114, OMS/TRANS	
		2	SLOT 17,18	14	HYTEC VTR2535 8 CHAN, 10 MSAMPLE/SEC A/D	
		1	SLOT 16	13	NCO, NUMERICALLY CONTROLLED OSCILLATOR	XXXXXX
		2	SLOT 14,15	12	V124 BEAM SYNC TRIGGER MODULE	94028432
		1	SLOT 13	11	STEPPER MOTOR CONTROL MODULE	D09-E-2694
		1	SLOT 12	10	OREGON MICRO SYSTEMS MOTOR CONTROLLER	VMEX-4
		1	SLOT 11	9	GPIB-1014, IEEE-488 MODULE, NATIONAL INSTRUMENTS	776411-01
		1	SLOT 10	8	DAC MODULE, 8-CHAN, 12-BIT	VMI VME 4122-010
		3	SLOT 7,8,9	7	32 CHAN DIGITAL OUTPUT MODULE, HIGH CURRENT OUTPUT (300 mA)	VMI VME 2170A-210
		1	SLOT 6	6	32 CHAN DIGITIAL INPUT MODULE	VMI VME 1160A-201
		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

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	Al Watson	3/9/00
CHECKED BY		
DESIGN APPROVAL		
ENGINEER APPROVAL		
SUPVR. APPROVAL		

NEXT ASSEMBLY

BROOKHAVEN NATIONAL LABORATORY
UPTON, N.Y. 11973

RHIC CONTROLS

SERVICE BLDG. 1002A TUNE METER

VME CHASSIS CFE-2A-TUNE1

SIZE D | DRAWING NUMBER 94028825 | REV. A

MATERIAL: | SCALE: NA | WEIGHT: | SHEET 1

*AUTOCAD