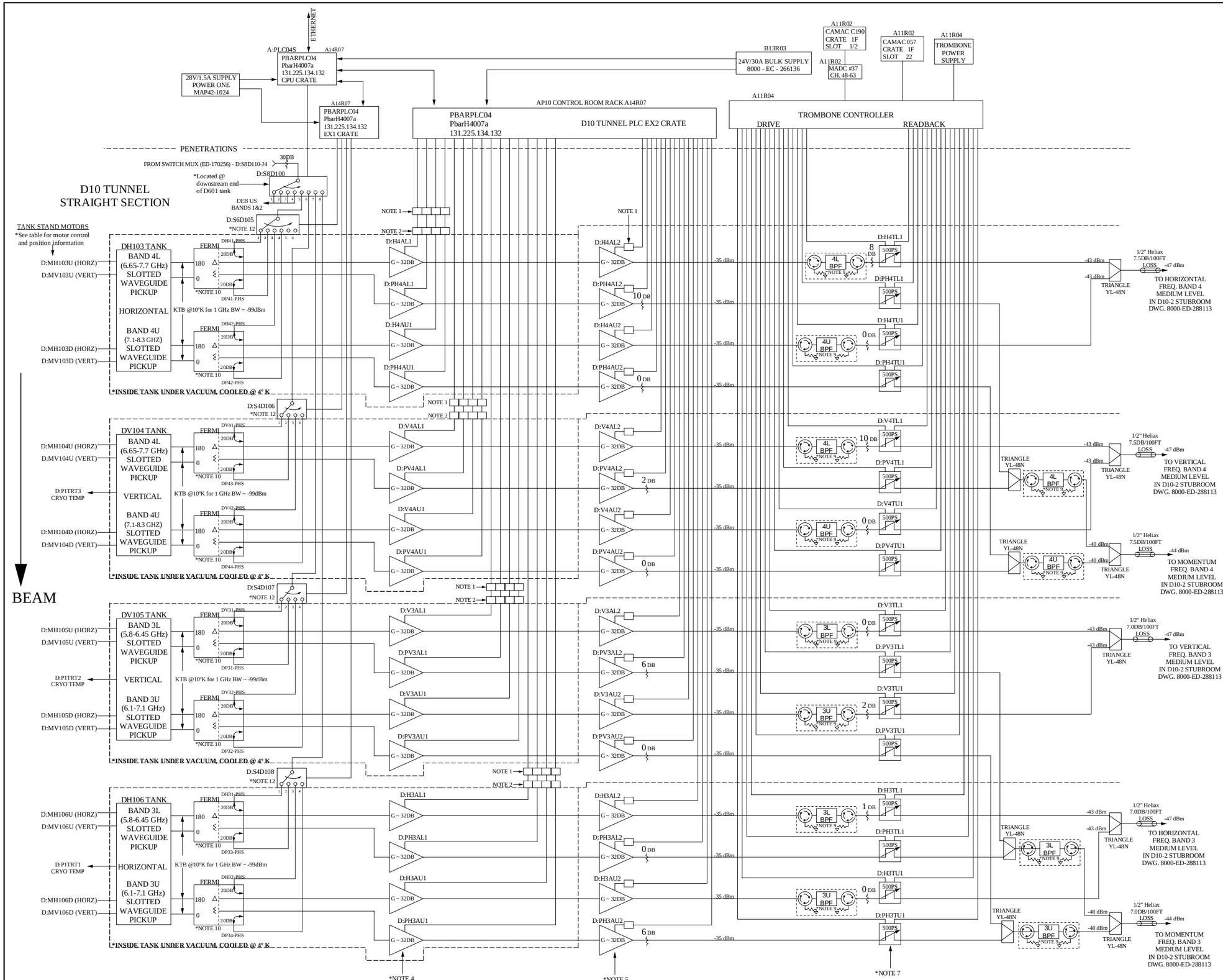
REV.	DESCRIPTION	DRAWN	DATE
		APPD.	DATE
A			



TANK POSITION MOTORS

CAMAC 057
CRATE 20
SLOT 7

MADC #6
CAMAC C190
CRATE 18
SLOT 3

MOTOR CONTROLLER IN RACK A16R05

MOTOR	NAME	MADC CHAN
1	D:MH103U	48
2	D:MV103U	49
3	D:MH104U	50
4	D:MV104U	51
5	D:MH105U	52
6	D:MV105U	53
7	D:MH106U	54
8	D:MV106U	55
9	D:MH103D	56
10	D:MV103D	57
11	D:MH104D	58
12	D:MV104D	59
13	D:MH105D	60
14	D:MV105D	61
15	D:MH106D	62
16	D:MV106D	63

NOTES:
1) AMPLIFIER +15V REGULATORS, FERMI-MADE, 300MA, SEE DWG 8000-EC-266083. REGULATORS PROVIDE ON/OFF CONTROL/STATUS, HIGH/LOW VOLTAGE, AND HIGH/LOW CURRENT STATUS.
2) AMPLIFIER +6.0V REGULATORS, BY MITEQ, MODEL BAH-26297.
3)
4) CRYOGENIC AMPS BY MITEQ, INC., MODEL AMF-3F-054070-25K-CRYO FOR BAND 3 AND MODEL AMF-3F-063080-25K-CRYO FOR BAND 4.
5) LOW LEVEL AMPLIFIERS BY DBS uWAVE, MODEL DB97-1787.
6) .
7) PHASE SHIFTERS ARE BY NARDA uWAVE, MODEL 27223, 500PS RANGE CONTROL CABLES PROVIDES MOTOR DIRECTIONAL POWER ON/OFF, READBACK CABLES PROVIDES LOW/HIGH LIMIT AND POSITION.
8) AMP REGULATORS, SWITCHES, AND ALL RF COMPONENTS PAST COLD BOX, ARE MOUNTED SOMEWHERE ON OR NEAR EACH OF THEIR RESPECTIVE PICKUP TANKS.
9) FERMI-MADE TRANSVERSAL BANDPASS FILTER, WITH DITOM #3I3783 CIRCULATOR ON EACH END. TOTAL LOSS ~2DB.
10) FERMI-MADE CUSTOM NARROW BAND 180° RING HYBRID W/SHORTING STUB.
11) ATTENUATORS ARE TYPE 'N' 5W, MODEL A956S BY EMCO.
12) COAXIAL SWITCHES ARE EITHER BY NARDA (WAVECOM) OR DYNATECH. FOUR POSITION MODEL O4-113E291 (Dynatech) OR 043-B237-D1D-3B1 (Narda). SIX POSITION MODEL O6-113E291 (Dynatech) OR 063-B237-D1D-3B1.

10/22/02

ITEM NO.	PART NO.	DESCRIPTION OR SIZE	QTY. REQ.
		PARTS LIST	

UNLESS OTHERWISE SPECIFIED			ORIGINATOR	RALPH PASQUINELLI	
FRACTIONS	DECIMALS	ANGLES	DRAWN	WESLEY J. MUELLER	3/17/98
+/-	+/-	+/-	CHECKED		
1. BREAK ALL SHARP EDGES 1/64 MAX.			APPROVED		
2. DO NOT SCALE DRAWING			USED ON		
3. DIMENSIONING IN ACCORD WITH ANSI Y14.5 STD'S					
√ MAX. ALL MACHINED SURFACES			MATERIAL-		

FERMI NATIONAL ACCELERATOR LABORATORY
UNITED STATES DEPARTMENT OF ENERGY

ANTI-PROTON SOURCE DEBUNCHER LOW LEVEL DOWNSTREAM ELECTRONICS

SCALE	FILMED	DRAWING NUMBER	REV.
		8000 - ED - 288111	