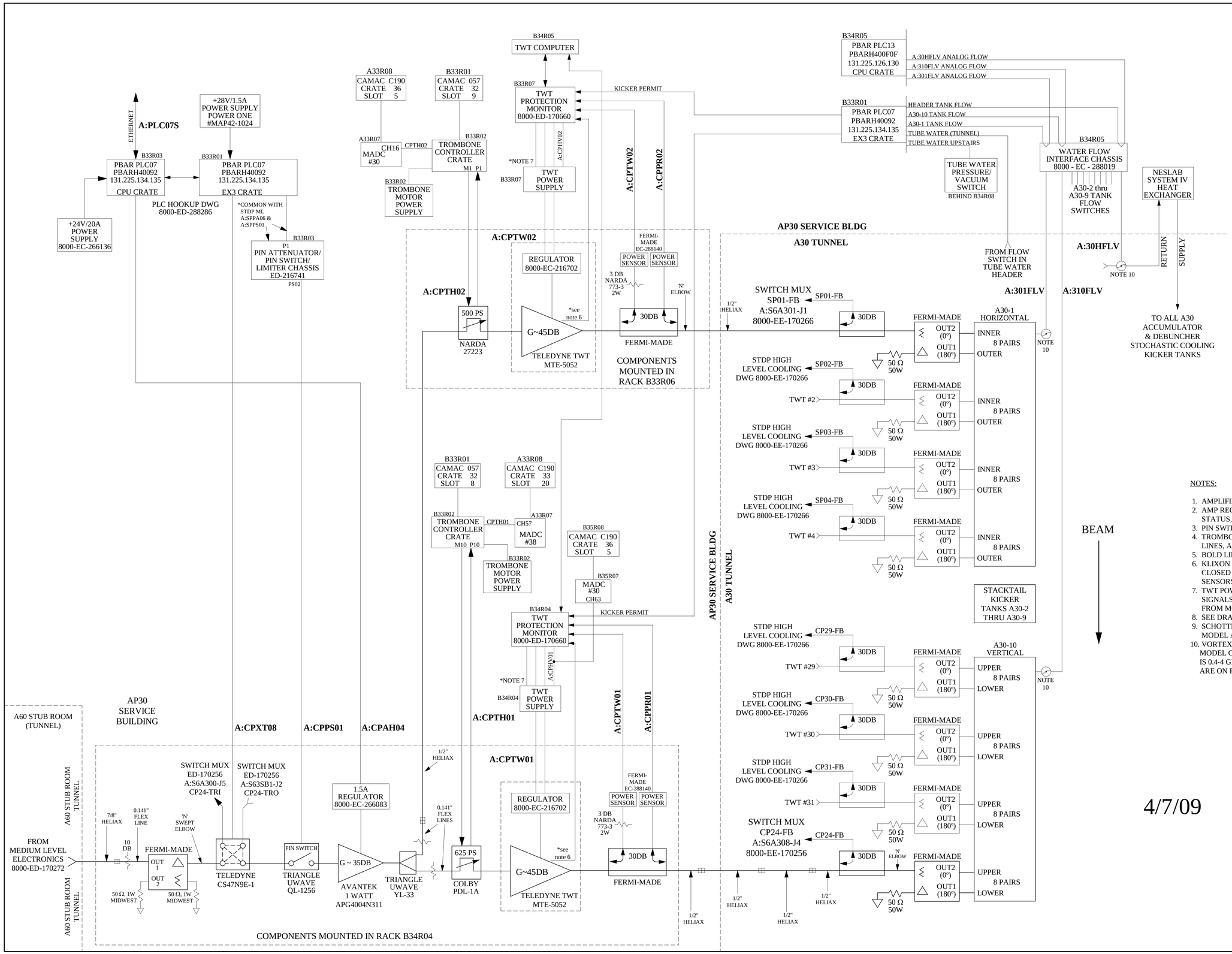

REV.	DESCRIPTION	DRAWN / APPD.	DATE / DATE
E	TUNNEL SUBASSEMBLY CHANGES (NEW TANKS)	G.A. JOHNSON	3/21/91
		W.J. MUELLER	4/1/91
F	CHANGED 10DB ATT. AND ADDED 180× HYBRID	T.P.S.	4/16/92
G	CHANGED KICKER HYBRIDS & REDRAWN NEW 2-4 CORE BETATRON SYSTEM IN	W.J. MUELLER	4/19/95
		W.J. MUELLER	4/19/95
H	FLIPPED KICKER HYBRIDS	W.J. MUELLER	4/25/95
		W.J. MUELLER	4/25/95
I	REPLACED KICKER HYBRIDS WITH FERMI-MADE HYBRIDS	W.J. MUELLER	4/10/96
		W.J. MUELLER	4/10/96
J	LAYOUT/CABLE CHANGES IN B34R04 RACK	W.J. MUELLER	7/15/98
K	CHANGED KICKER ARRAY TO TANK A30-6, FORMERLY STDP #13	W.J. MUELLER	5/9/02
L	CHANGED SP24-TRO SWITCH NAME & POLE	W.J. MUELLER	3/30/06
M	MOVED OUTPUT TO TANK A30-10, MOST DOWNSTREAM PORT (#32)	W.J. MUELLER	1/25/07
N	SPLIT OUTPUT TO ALSO USE 1st STACKTAIL MOMUENTUM KICKER ON A30-1 TANK	W.J. MUELLER	4/2/09

NOTES:

1. AMPLIFIER GAINS ARE NOMINAL.
2. AMP REGULATOR BUS HAS ON/OFF CONTROL, HIGH/LOW VOLTAGE STATUS, AND HIGH/LOW CURRENT STATUS.
3. PIN SWITCH BUS HAS: ONE TTL ON/OFF BIT AND ONE TTL STATUS BIT.
4. TROMBONE LINE BUS HAS: MOTOR CONTROL LINES, LIMIT SWITCH LINES, AND POSITION READBACK LINES.
5. BOLD LINES INDICATE MAIN RF SIGNAL PATH.
6. KLIXON MOUNTED ON TWT NEAR ITS OUTPUT. IT IS A NORMALLY CLOSED TEMPERATURE SWITCH SET TO OPEN AT 194× F. ELMWOOD SENSORS MODEL #3100-56-87L194.
7. TWT POWER SUPPLY TO PROTECTION MONITOR BUS HAS: 9 STATUS SIGNALS FROM POWER SUPPLY TO MONITOR AND 3 CONTROL SIGNALS FROM MONITOR TO POWER SUPPLY. SUPPLY IS VARIAN MODEL #01009560-00.
8. SEE DRAWING 8000-EC-216369 FOR TROMBONE WIRING.
9. SCHOTTKY DIODE DETECTORS ARE BY ADVANCED CONTROL COMPONENTS MODEL ACSP-2524NZ.
10. VORTEX FLOW SWITCHES BY UNIVERSAL FLOW, INC. TANK SWITCHES ARE MODEL CP-2 (1/4 size), MOUNTED NEAR CEILING IN FRONT OF EACH TANK. RANGE IS 0.4-4 GPM. HEADER FLOW IS MODEL CP-1 (3/4 size), RANGE = 2.5-25GPM. ALL ARE ON RETURN WATER LINES.

4/7/09

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

UNLESS OTHERWISE SPECIFIED			ORIGINATOR	R.J. PASQUINELLI	
FRACTIONS	DECIMALS	ANGLES	DRAWN	WESLEY MUELLER	4/19/95
+/-	+/-	+/-	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 CORE MOMENTUM SYSTEM (2-4 GHZ) HIGH LEVEL ELECTRONICS

SCALE	FILMED	DRAWING NUMBER	REV.
		8000-ED-170273	N