

**Fermilab**

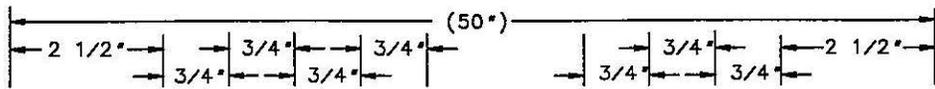
TS-SSC 90-088  
November 19, 1990

**MEMO TO:** Distribution  
**FROM:** W. Koska  
**SUBJECT:** 50 mm Tap Maps

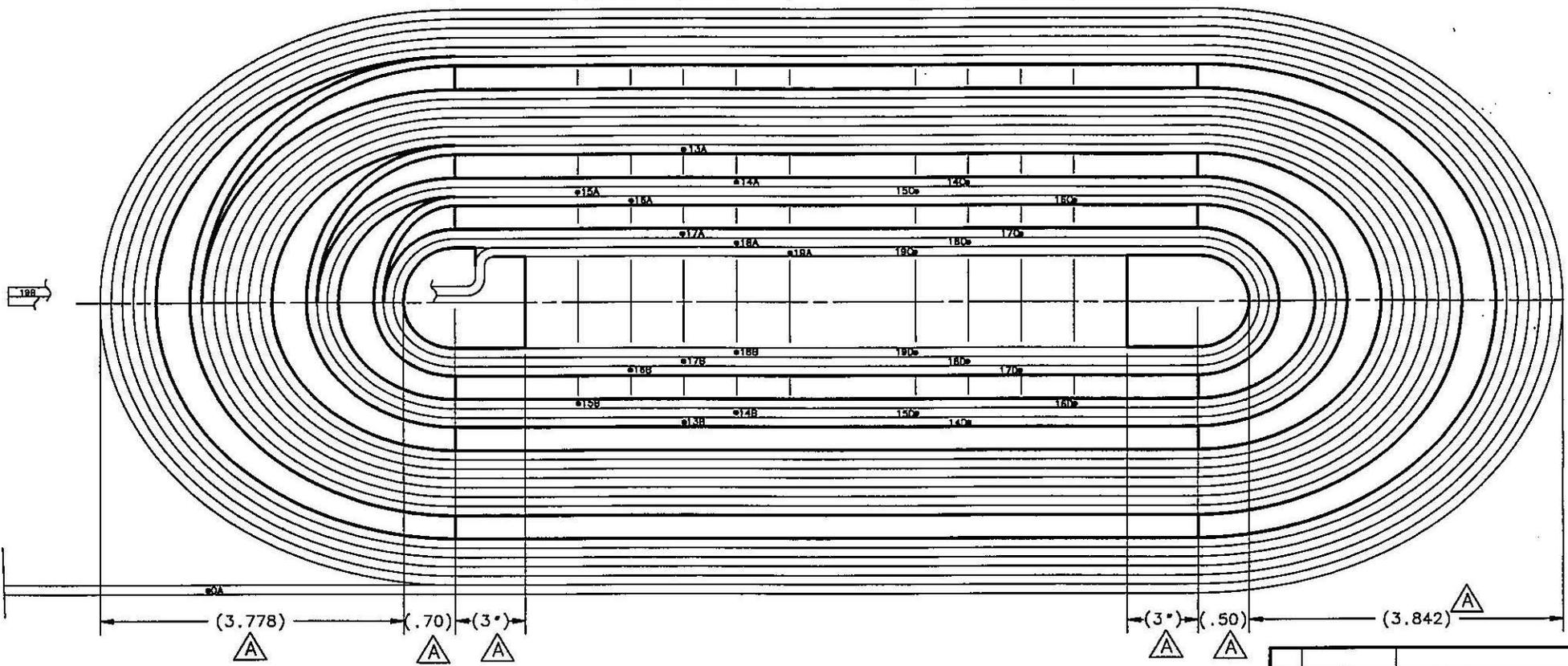
The following diagrams show the voltage tap positions for the 50 mm long and short coils.

Distribution:

R. Bossert  
J. Carson  
S. Delchamps  
S. Gourlay  
T. Jaffery  
M. Lamm  
J. Strait  
G. Tassotto  
M. Wake



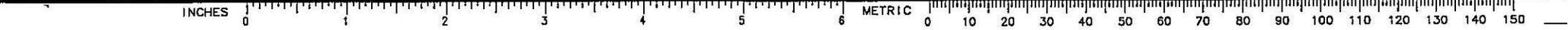
REV.	DESCRIPTION	DRAWN	DATE
A	ADDED THESE DIMENSIONS	R. DIXON	11/18/90



**NOTE:**

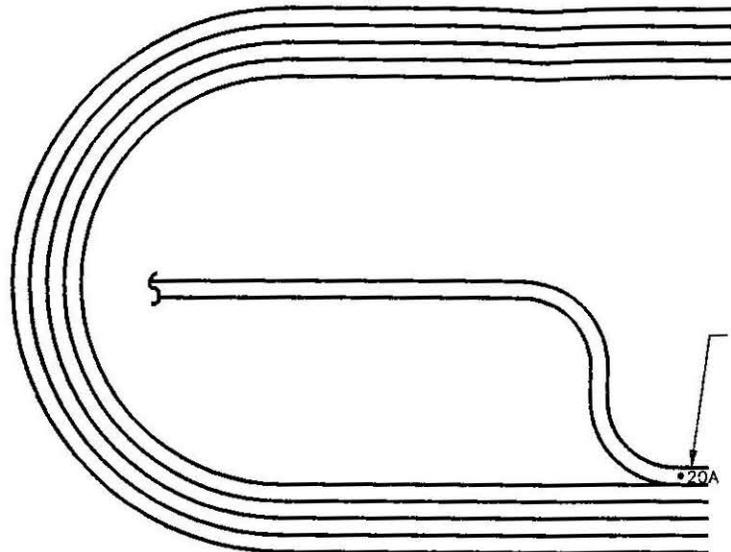
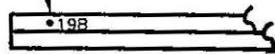
1. VOLTAGE TAP WIRES FOR TAPS 0A, 19B, AND THE HALF COIL TAP ARE #22 AWG TEFLON INSULATED.
2. THE REMAINING VOLTAGE TAP WIRES ARE #32 AWG TEFLON INSULATED.
3. TAP WIRES WITH THE SAME NUMBER AT EACH END SHOULD FORM A TWISTED PAIR (A-B AND C-D).
4. VOLTAGE TAP WIRE SHOULD FOLLOW THE CABLE TO WHICH THEY ARE SOLDERED UNTIL THEY MEET AND ARE TWISTED WITH THEIR "MATE".
5. COIL AS VIEWED FROM INSIDE.

ITEM	PART NO.	DESCRIPTION OR SIZE	QTY.
<b>PARTS LIST</b>			
UNLESS OTHERWISE SPECIFIED		ORIGINATOR	STRAIT/KOSKA
.XX	.XXX	ANGLES	DRAWN
±	±	±	R. DIXON
±	±	±	10/10/90
1. BREAK ALL SHARP EDGES TO MAX.		APPROVED	
2. DO NOT SCALE DRAWING.		USED ON	
3. DIMENSIONS BASED UPON ANSI Y14.2M-1982		MATERIAL	
4. MAX. ALL MACH. SURFACES			
<b>FERMI NATIONAL ACCELERATOR LABORATORY</b> UNITED STATES DEPARTMENT OF ENERGY			
<b>DSA3XX</b> <b>VOLTAGE TAPS</b> <b>INNER COIL</b>			
SCALE	FILLED	DRAWING NUMBER	REV.
NONE		<b>0102-MB-263907</b>	A
CREATED WITH I-DEAS 4.1		USER NAME: SPUD	



REV.	DESCRIPTION	DRAWN	DATE
		APPRO.	DATE

INNER COIL LEAD



TAP TO BE LOCATED AS CLOSE TO BEGINNING OF STRAIGHT SECTION AS POSSIBLE.

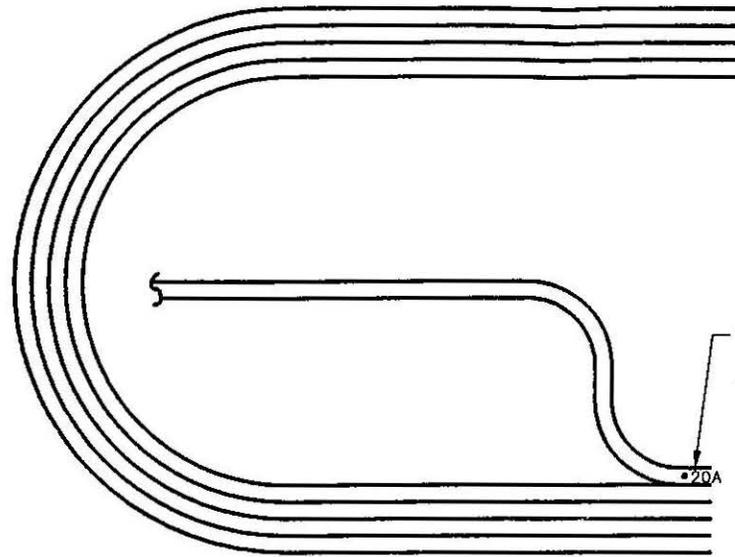
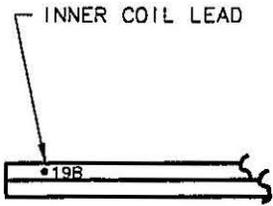
NOTE:

1. WIRE FROM TAP 20A SHOULD FOLLOW COIL LEAD AND THEN BE TWISTED IN A TRIPLET WITH WIRES FROM TAPS 19A AND 19B.
2. COIL AS VIEWED FROM INSIDE.

ITEM	PART NO.	DESCRIPTION OR SIZE	QTY.
PARTS LIST			
UNLESS OTHERWISE SPECIFIED		ORIGINATOR	STRAIT/KOSKA
.XX	.XXX	ANGLES	DRAWN R. DIXON 10/11/90
±	±	±	CHECKED
1. BREAK ALL SHARP EDGES .02 MAX.		APPROVED	
2. DO NOT SCALE DRAWING.		USED ON	
3. DIMENSIONS BASED UPON ANSI 114.04-1982		MATERIAL	
4. MAX. ALL MACH. SURFACES			
 <b>FERMI NATIONAL ACCELERATOR LABORATORY</b> UNITED STATES DEPARTMENT OF ENERGY			
<b>DCA3XX</b> <b>VOLTAGE TAPS</b> <b>OUTER COIL</b>			
SCALE	FILMED	DRAWING NUMBER	REV.
NONE		<b>0102-MB-263911</b>	
CREATED WITH I-DEAS 4.1		USER NAME:SPUD	

INCHES 0 1 2 3 4 5 6 METRIC

REV.	DESCRIPTION	DRAWN	DATE
		APPRO.	DATE



TAP TO BE LOCATED AS CLOSE TO BEGINNING OF STRAIGHT SECTION AS POSSIBLE.

NOTE:

1. WIRE FROM TAP 20A SHOULD FOLLOW COIL LEAD AND THEN BE TWISTED IN A TRIPLET WITH WIRES FROM TAPS 19A AND 19B.
2. COIL AS VIEWED FROM INSIDE.

ITEM	PART NO.	DESCRIPTION OR SIZE	QTY.
PARTS LIST			
UNLESS OTHERWISE SPECIFIED		ORIGINATOR	STRAIT/KOSKA
.XX	.XXX	ANGLES	DRAWN
±	±	±	CHECKED
1. BREAK ALL SHARP EDGES OR MAX.		APPROVED	
2. DO NOT SCALE DRAWING.		USED ON	
3. DIMENSIONS BASED UPON ANSI Y14.5M-1982			
4. MAX. ALL MACH. SURFACES		MATERIAL	
<b>FERMI NATIONAL ACCELERATOR LABORATORY</b> UNITED STATES DEPARTMENT OF ENERGY			
DSA3XX VOLTAGE TAPS OUTER COIL			
SCALE	FILMED	DRAWING NUMBER	REV.
NONE		0102-MB-263910	
CREATED WITH 1-DEAS 4.1		USER NAME:SPUD	

INCHES

METRIC