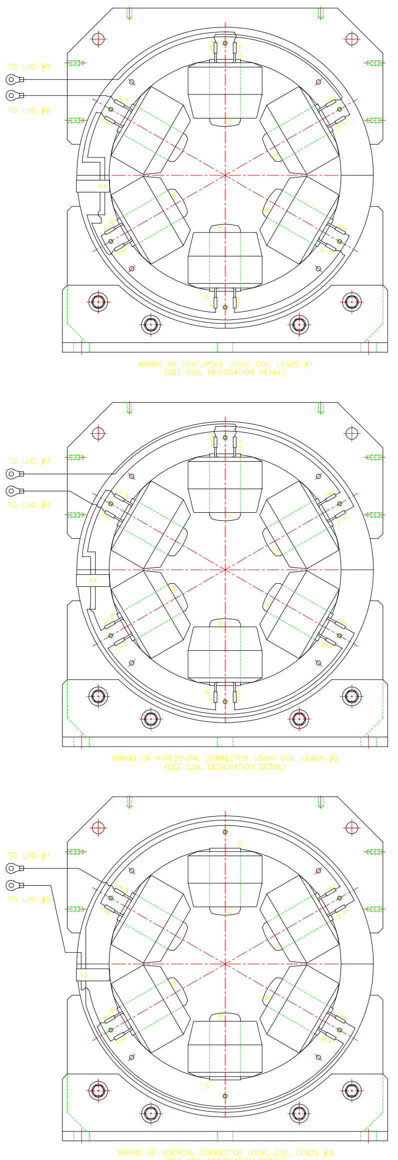
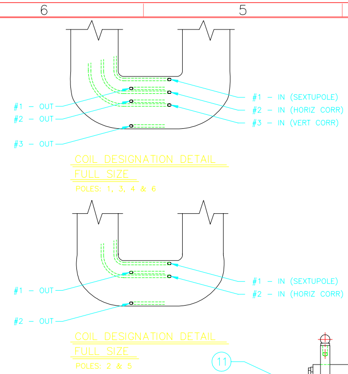
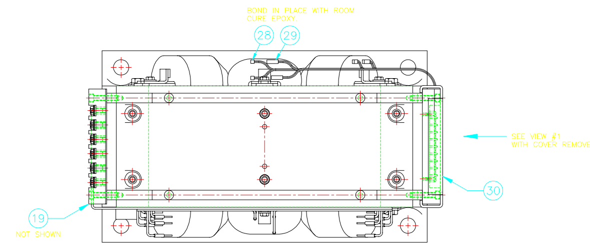
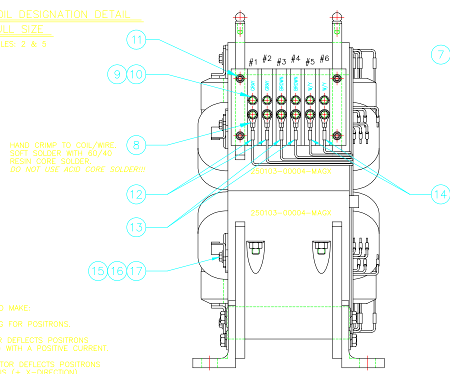
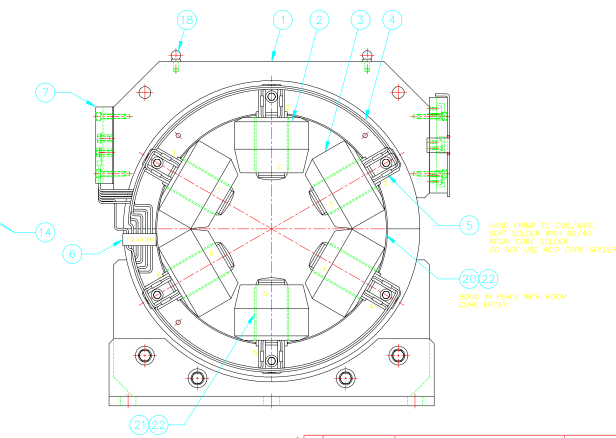
(E)	PLOT SCALE: 1=2	DWG. SCALE: 2	A11053











THICKNESS TO SUIT CENTER COILS ON POLES TO ±.010. BOTH DIRECTIONS. BOND IN PLACE WITH ROOM CURE EPOXY.

MAGNET FUNTION

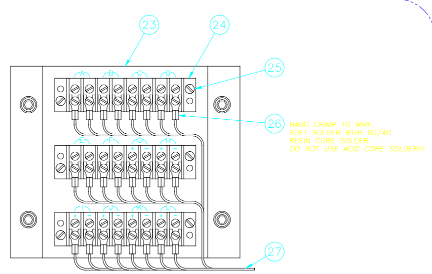
COIL CONNECTIONS INDICATED MAKE:

A.) SEXTUPOLE FOCUSING FOR POSITRONS.

B.) VERTICAL CORRECTOR DEFLECTS POSITRONS UP (+ Y-DIRECTION) WITH A POSITIVE CURRENT.

C.) HORIZONTAL CORRECTOR DEFLECTS POSITRONS TO A SMALLER RADIUS (+ X-DIRECTION).

APPROXIMATE WEIGHT: 380 LBS



THERMAL PROTECTOR

A: TO SEXTUPOLE COIL, POLE #2.
B: TO SEXTUPOLE COIL, POLE #5.
C: TO HORIZ. CORR. COIL, POLE #2.
D: TO HORIZ. CORR. COIL, POLE #5.
E: TO VERT. CORR. COIL, POLE #3.
F: TO VERT. CORR. COIL, POLE #4.

PN – JUNCTION

G: TO SEXTUPOLE COIL, POLE #2.
H: TO SEXTUPOLE COIL, POLE #5.
I: TO HORIZ. CORR. COIL, POLE #2.
J: TO HORIZ. CORR. COIL, POLE #5.
K: TO VERT. CORR. COIL, POLE #3.
L: TO VERT. CORR. COIL, POLE #4.

VIEW #1

NOTE 1: WIRE, MAGNET #12 ROUND
COATING: POLYIMIDE HEAVY
NEMA-MW-1000
SECTION MW 71-C (HEAVY)

NOTE 2: BUTT-TERMINAL, SPC TECHNOLOGY
CCS SERIES, STYLE: "TO"
NON-INSULATED BUTTED SEAM BARREL
TYPE CCS-TO-1010

NOTE 3: COMPACT TERMINAL STRIP, WIELAND
MATERIAL: POLYAMIDE 6.6
6 POLES
TYPE 29.401.0653

NOTE 4: RING TONGUE TERMINAL, SPC TECHNOLOGY
CRS SERIES, STYLE: "TO"
NON-INSULATED BUTTED SEAM BARREL
TYPE CRS-TO-1025

NOTE 5: CHECKING BALL, REID TOOL SUPPLY CO.
MATERIAL: 440-C STAINLESS STEEL
CATOLOG NO. JFB-29021

NOTE 6: BARRIER TERMINAL BLOCK, CINCH
8 TERMINALS
140 SERIES, TYPE 8-140

NOTE 7: SPADE TONGUE TERMINAL, SPC TECHNOLOGY
CBS SERIES, HIGH TEMPERATURE
NON-INSULATED BLOCK SPADE TONGUE
TYPE CBS-TO-1806-HT

NOTE 8: PN-JUNTION, PIONEER CHICAGO DIV.
MODEL NO. AD592AN

NOTE 9: THERMAL PROTECTOR, PORTAGE ELECTRIC PRODUCTS
MODEL: MA-409-071H
PART NO. C-101109

	ITEM	DWG/PART NUMBER	NOMENCLATURE OR DESCRIPTION	MATERIAL / SPEC	QTY
△01	30	250103-100004	PAR SEXTUPOLE TERMINAL BOX COVER	SEE DETAIL	1
△01	29	PURCHASED	THERMAL SWITCH	SEE NOTE 9	6
△01	28	PURCHASED	PN-JUNCTION	SEE NOTE 8	6
△01	27	PURCHASED	#22 GA. STRANDED, TEFEL INSUL. WIRE		A/R
△01	26	PURCHASED	SPC SPADE TONGUE TERMINAL	SEE NOTE 7	24
△01	25	PURCHASED	#6-32 X .38 PAN HD CAP SCR	ALLOY STEEL	6
△01	24	PURCHASED	CINCH BARRIER TERMINAL BLOCK	SEE NOTE 6	3
△01	23	250103-100003	PAR SEXTUPOLE TERMINAL BOX	SEE DETAIL	1
	22	———	ROOM CURE EPOXY		A/R
	21	———	2 X 2.75 X (VARIES) FIBERGLASS	G-10	24
	20	———	4.5 X 6.34 X .06 THK FIBERGLASS	G-10	6
	19	250103-100001	PAR SEXTUPOLE JUNCTION BOX COVER	SEE DETAIL	1
	18	PURCHASED	CHECKING BALL W/REFERENCE SHOULDER	SEE NOTE 5	4
	17	PURCHASED	1/4-20 X .75 HEX HEAD CAP SCREW	18-8 SST	12
	16	PURCHASED	.281 ID X .63 OD X .065 THK FLAT WASH	18-8 SST	12
	15	250103-100002	PAR SEXTUPOLE HOLD DOWNS	SEE DETAIL	12
	14	PURCHASED	SHRINK TUBING 1/2" LG – WHITE/YELLOW		2
	13	PURCHASED	SHRINK TUBING 1/2" LG – BROWN		2
	12	PURCHASED	SHRINK TUBING 1/2" LG – GRAY		2
	11	PURCHASED	1/4-20 X 1.25 SOC HD CAP SCR	ALLOY STEEL	8
	10	PURCHASED	.281 ID X .50 OD X .06 THK FLAT WASH	ALLOY STEEL	12
	9	PURCHASED	1/4-20 X .50 HEX HD CAP SCR	ALLOY STEEL	12
	8	PURCHASED	SPC RING TONGUE TERMINAL	SEE NOTE 4	6
	7	250103-110001	PAR SEXTUPOLE JUNCTION BOX	SEE DETAIL	1
	6	PURCHASED	WIELAND COMPACT TERMINAL STRIP	SEE NOTE 3	1
	5	PURCHASED	SPC BUTT-TERMINAL	SEE NOTE 2	32
	4	PURCHASED	#12 AWG WIRE	SEE NOTE 1	A/R
	3	250103-00008	PAR SEXTUPOLE SIDE COIL ASSY		4
	2	250103-00005	PAR SEXTUPOLE CENTER COIL ASSY		2
	1	250103-00004	PAR SEXTUPOLE CORE ASSY		1

PARTS LIST

SYM	CHANGE DESCRIPTION	BY	CHKD	DATE
01	SEE DCN 930525-04	KWC		

REVISIONS

UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN INCHES
TOLERANCES
DECIMALS .X ±.X .XX ±.XX .XXX ±.XXX
ANGULAR ±.XX°
SURFACE ROUGHNESS XXX√
REMOVE ALL BURRS AND BREAK SHARP EDGES .03 MAX.
SURFACE TEXTURE TO BE IN ACCORDANCE WITH LATEST ANSI B46.1
DIMENSIONING & TOLERANCING IN ACCORDANCE WITH LATEST ANSI Y14.5
DO NOT SCALE DRAWING

LOG NUMBER: A11053

THIS DRAWING IS THE PROPERTY OF ARGONNE NATIONAL LABORATORY

DRAWN BY: K. COSTELLO	DATE: 2-10-93	GP LEADER: J. JAGGER	DATE: 2/93
CHECKED BY: J. JAGGER	2/93	PROJECT MGR	
DESIGNER: K. COSTELLO	2-10-93	APPROVED/RELEASED	
RESPONSIBLE ENGINEER: J. JAGGER	2/93		

TITLE: ADVANCED PHOTON SOURCE
INJECTOR
POSITRON ACCUMULATOR RING
SEXTUPOLE ASSEMBLY

MATERIAL: SEE PARTS LIST
SCALE 1:2
SHEET 1 OF 1
SIZE E
DRAWING NUMBER 250103-00003-01

A11053
250103-00003-01
INJECTOR
POSITRON ACCUMULATOR RING
SEXTUPOLE ASSEMBLY
2-10-93 DRAWN
6-1-93 REVISED