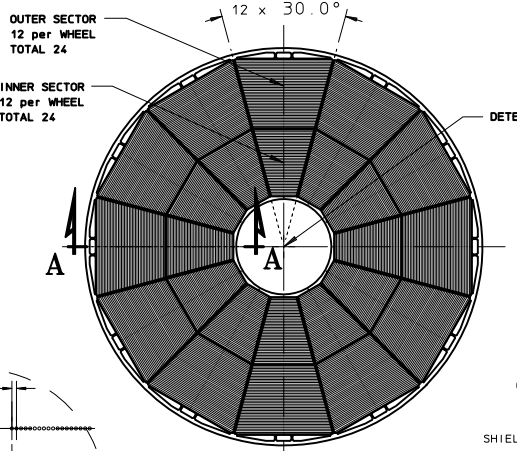
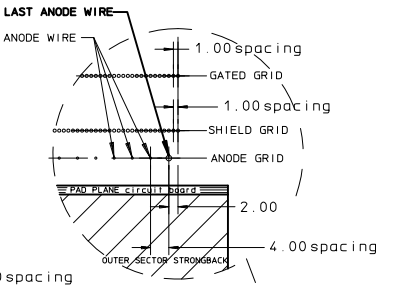
REQ	ITEM	PART NUMBER	DESCRIPTION



STAR TPC WHEEL (2x)
View from inside the TPC

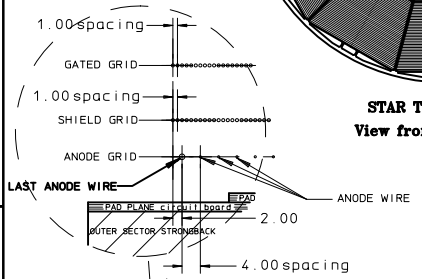


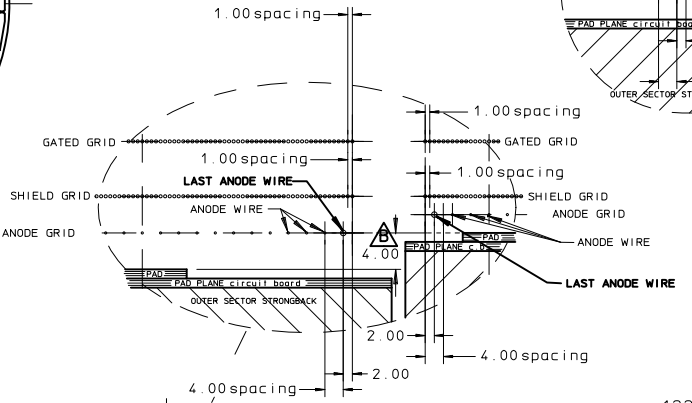
GATED GRID WIRE
Ø.075mm BeCu, Au plated
spacing 1mm
OUTER: 689 Wires
INNER: 681 Wires
TOTAL: 1,370 Wires per Sector

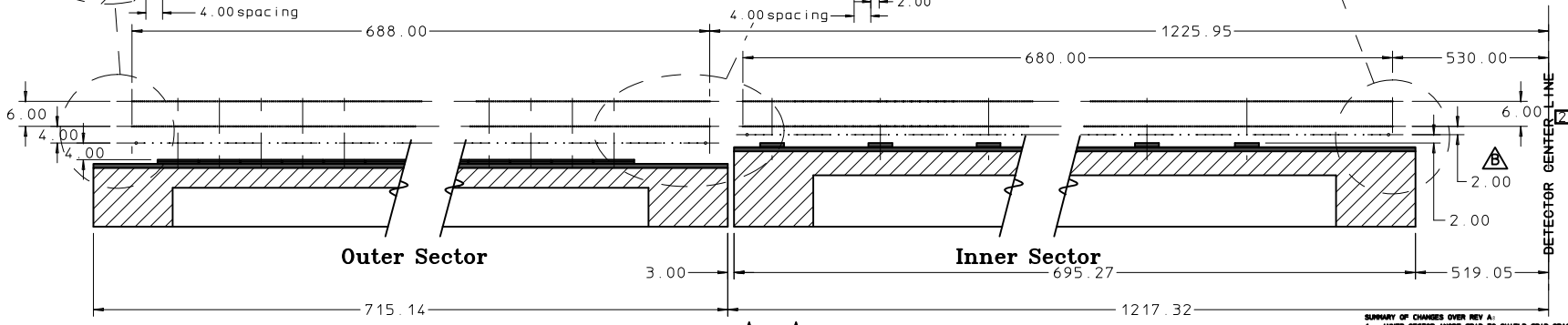
SHIELD GRID WIRE
Ø.075mm BeCu, Au plated
spacing 1mm
OUTER: 689 Wires
INNER: 681 Wires
TOTAL: 1,370 Wires per Sector

ANODE GRID WIRE
Ø.020mm W, Au plated
spacing 4mm
OUTER: 170 Wires
INNER: 168 Wires
TOTAL: 338 Wires per Sector

LAST ANODE WIRE
Ø.125mm BeCu, Au plated
OUTER: 2 Wires
INNER: 2 Wires
TOTAL: 4 Wires per Sector







SECTION A–A

NOTES:

1. ALL DIMENSIONS ARE IN mm
2. TOLERANCE FOR WIREPLACEMENT IS ±.1 RELATIVE TO EACH OTHER AND TO THE PADPLANE.
3. TOLERANCE FOR THE PLACEMENT OF THE PADPLANES RELATIVE TO THE DETECTOR CENTER IS ±.5

SUMMARY OF CHANGES OVER REV A:
1. INNER SECTOR ANODE GRID-TO-SHIELD GRID SPACING WAS CHANGED FROM 3mm TO 2mm
3. SPACING OF INNER SECTOR-TO-OUTER SECTOR PAD PLANE WAS CHANGED FROM 3mm TO 4mm.
2. FIELD WIRES WHERE DELETED.

REV	DWG	CHK	DATE	CHANGES
B	JB		930722	2was3,4was3,deleted FIELD WIRES
A	JB		930428	INITIAL RELEASE

UNLESS OTHERWISE SPECIFIED
TOLERANCES: .X FRAC. ; .XX ANGLES ; .XXX FINISH
THREADS ARE CLASS 2
CHAMFER ENDS OF ALL SCREW THREADS 30° CUT 1.5 PITCH THRD RELIEF WITH ROUND NOSE TOOL
BREAK EDGES .016 MAX. ON MACHINED WORK
REMOVE BURRS WELD SPLATTER & LOOSE SCALE
REFERENCES: ANSI Y14.5 & B46.1.

SHOP ORDERS
ACCT. NO. ; SERIAL NO. ; DATE ISSD ; DATE REQD. ; NO. REQD.
DELIVER TO
SURFACE TREATMENT
IDENT. METH.
DWG BY J. BOEHM DATE 93-04-02
CHK BY J. BERCOVITZ DATE 93-04-05

LAWRENCE BERKELEY LABORATORY
UNIVERSITY OF CALIFORNIA-BERKELEY
RHIC-STAR-TPC
INNER AND OUTER SECTOR
WIRE GRID CONFIGURATION

PATENT CLEAR	DWG. TYPE	SHOWN ON	SCALE	DO NOT SCALE PRINTS
	DIAGRAM	00X0000	NONE	
MICROFILMED	DESIGN ACCT NO.	CATEGORY CODE	DWG. NO.	SIZE / REV
	8250-24	GR-02-04	24A0554	B