JLC Detector Parameters as of Oct-'98.

Not so different from the Green Book.

DETECTOR	TYPE	CONFIGURATION	PERFORMANCE
Solenoid & Return Yoke		Solenoid: Diameter = 9 m, Length = 10 m, Field = 2 Tesla Yoke: Diameter = 16 m, Length = 16 m, Weight = 12 kton	
VTX	CCD	Pixel Size ; 25 μm Number of Layers ; 3 layers Layer Position ; r=2.5, 5.0, 7.5cm Thickness ; 300 μm / layer	**Position Resolution ; $\sigma = 7.2\ \mu m$** **Impact Parameter Resolution δ [μm];** $\delta^2 = 11.4^2 + (28.8/p)^2 / \sin^3\theta$
CDC	Jet Chamber	Diameter = 4.6 m Length = 4.6 m Number of Sampling = 100 $\lvert\cos\theta\rvert < 0.70$ (full sampling) $\lvert\cos\theta\rvert < 0.95$ (20 samplings)	**Position Resolution ;** $\sigma_x = 100\ \mu m$ (/ axial wire) $\sigma_z = 2$ mm (/ stereo wire) **Momentum Resolution ;** $\sigma_{Pt} / Pt = 1.1 \times 10^{-4} Pt \oplus 0.1\%$
CAL	Lead + Plastic Scintillator Tile-Fiber Sandwitch (Compensated)	EM part ; thickness = 29 Xo cell size = 10cm x 10cm would be 6.6cm x 6.6cm HAD part ; thickness = 5.6 λo cell size = 20cm x 20cm Si Pad ; pad size = 1cm x 1cm or Scintillator Strip 1cm x 20cm	**Energy Resolution ;** $\sigma_E / \sqrt{E} = 15\% / \sqrt{E} \oplus 1\%$ (e & γ) $\sigma_E / \sqrt{E} = 40\% / \sqrt{E} \oplus 2\%$ (hadron)

* All momentum and energy are expressed in [GeV].