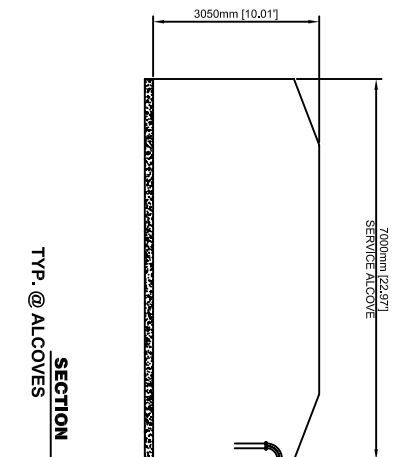
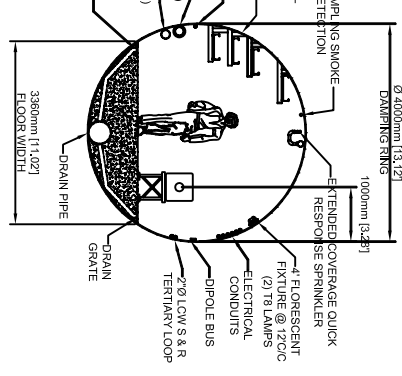
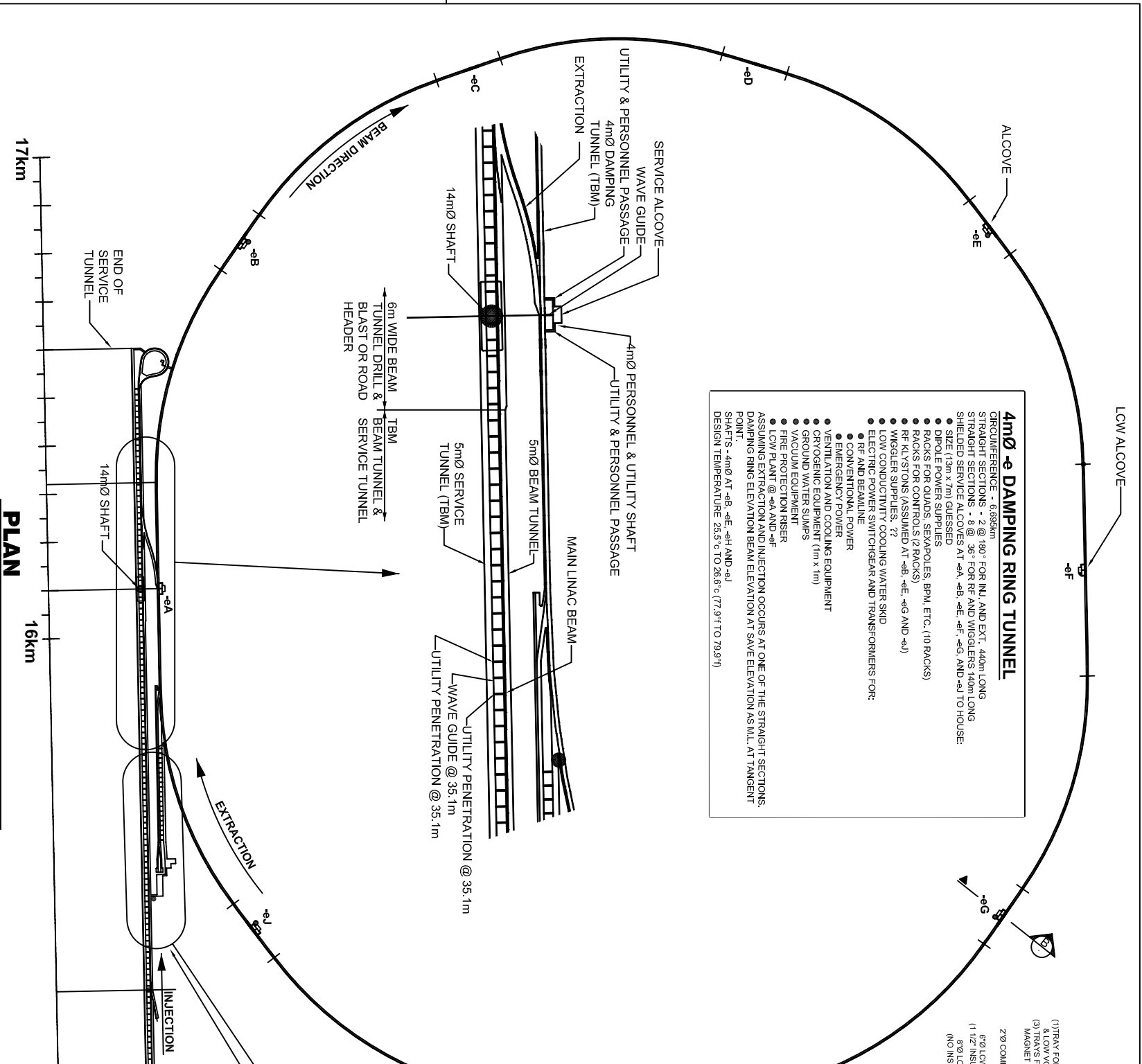


**4mØ -e DAMPING RING TUNNEL**

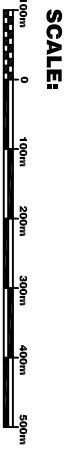
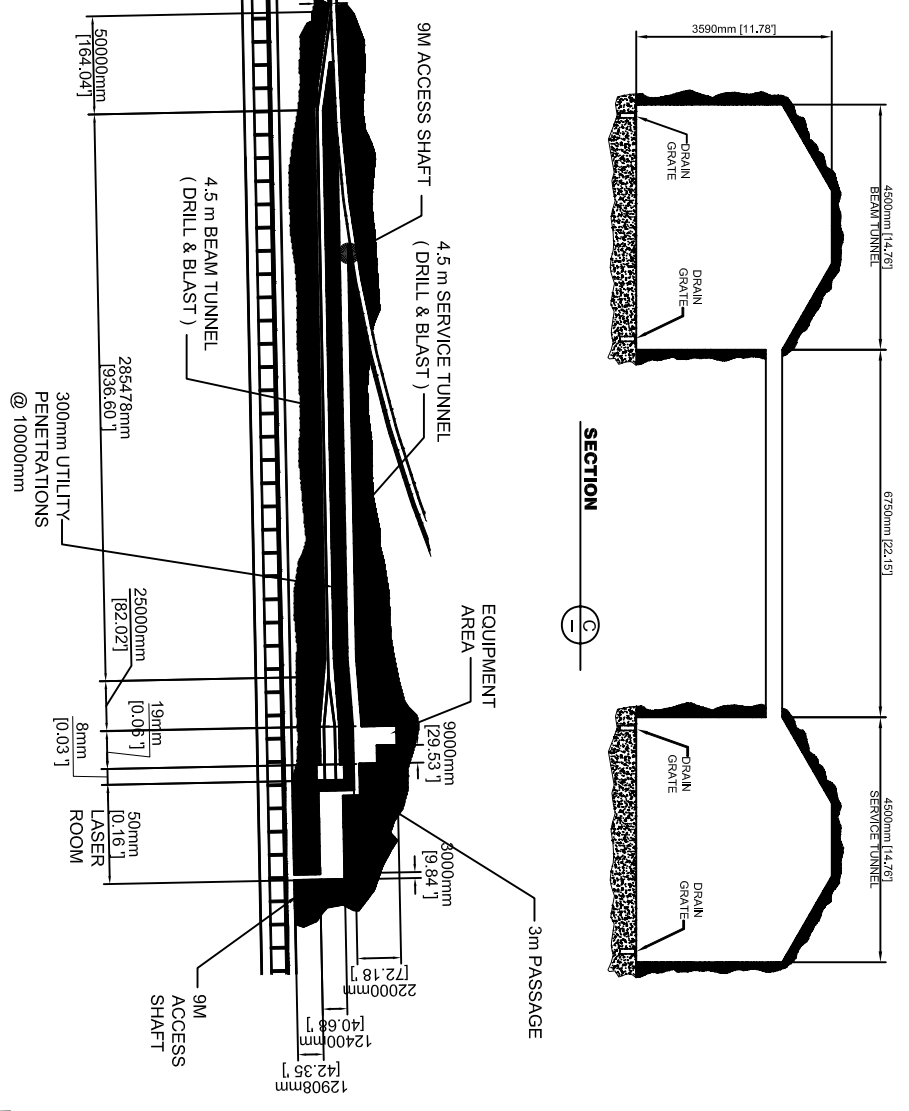
CIRCUMFERENCE - 6369mm  
 STRAIGHT SECTIONS - 2 @ 180° FOR INJ. AND EXT. 44m LONG  
 STRAIGHT SECTIONS - 8 @ 36° FOR RF AND WIGGLERS 16m LONG  
 SHIELDED SERVICE ALCOVES AT -eA, -eB, -eE, -eF, -eG, AND -eJ TO HOUSE:

- SIZE (1.5m x 7m) GUESSED
- DIPOLE POWER SUPPLIES
- RACKS FOR QUADS, SEXAPOLES, BPM, ETC. (10 RACKS)
- RACKS FOR CONTROLS (2 RACKS)
- RF KLYSTRONS (ASSUMED AT -eB, -eE, -eG AND -eJ)
- WIGGLER SUPPLIES, ??
- LOW CONDUCTIVITY COOLING WATER SKID
- ELECTRIC POWER SWITCHGEAR AND TRANSFORMERS FOR:
  - RF AND BEAMLINE
  - CONVENTIONAL POWER
  - EMERGENCY POWER
  - VENTILATION AND COOLING EQUIPMENT
  - CERVOGENIC EQUIPMENT (1m x 1m)
  - GROUND WATER SUMP
  - FACILITY EQUIPMENT
  - FIRE PROTECTION SYSTEM
  - LIFE SUPPORT AND LIFE

ASSUMING EXTRACTION AND INJECTION OCCURS AT ONE OF THE STRAIGHT SECTIONS.  
 DAMPING RING ELEVATION AND INJECTION BEAM ELEVATION AS M.L. AT TANGENT POINT.  
 SHAFTS - 4mØ AT -eB, -eE, -eH AND -eJ  
 DESIGN TEMPERATURE 25.5°c TO 28.6°c (77.9°f TO 79.9°f)



**INJECTION TUNNEL**  
 CRITERIA NEEDED



REV.	DATE	DESCRIPTIONS

**DRAFT**  
MAY 10, 2006

NAME	DATE

DESIGNED	DRAWN	CHECKED	APPROVED	SUBMITTED

**ILC GLOBAL DESIGN EFFORT**  
 CONVENTIONAL FACILITIES AND SITTING

**ILC MAIN LINAC**  
 ENLARGED PLAN - SHEET 1

DRAWING NO. **6-11-BCD** SK-5 REV.

**10 MAY 2006**