

**APPENDIX A****Subsurface Operations****Section 1. General****A-1. Type facilities.**

- a. This appendix explains how guerrillas may use natural caves or construct underground facilities in the course of their operations. These may be used for command and control centers, logistical staging areas, hospitals, or even fortifications.
- b. The larger underground facilities may be complex. Caves may have many large chambers connected by passageways, while tunnel systems may have many large rooms joined by interconnecting tunnels. Underground facilities may be wired for electricity and communications and may even have pumping stations for supplying air to lower levels.

**A-2. Tunnel uses.**

Tunnels may be dug with zigzags and sumps to lessen the effects of small arms fire, explosives, and gas inside them. Some tunnels and rooms, or passageways and chambers, may contain concealed exits to allow guerrillas to hide or escape if the complex or cave is penetrated while others may be booby-trapped to kill intruders. Tunnels and caves are difficult to detect from the air or ground, and their construction may make them impossible to destroy with conventional ammunition. Tunnel entrances are normally covered by fire from another point in the complex.

- a. Guerrillas may use tunnels in penetration operations to gain access to restricted areas. In built-up areas they may infiltrate through sewers, or tunnel from the basement of a nearby building, or subway tunnel, or sewer to their target. When they are below the target, they may either construct an exit and penetrate the target from below or fill the tunnel with explosives and blow up the target.
- b. Tunnels may also be dug in the basements of safehouses for use as escape routes if a house is compromised.
- c. Tunnels are used for approach and escape. They are used to obtain access to caves and underground bunkers for use as firing positions and protection against indirect fires. They are also used as a common method of storing food and materials in underground caches. Some tunnel complexes are large enough to house underground hospitals and base camps.

