

3.3.4.1 Facilities

To support the relocation of TA-18 operational capabilities and materials associated with security Category I/II activities, it is proposed to construct a new underground building and modify or renovate 10 existing aboveground buildings. All construction and renovation activities would be within SNL/NM's TA-V area (SNL/NM 2001a). The locations of the proposed new facility and existing facilities are shown in **Figure 3-7**.

The overall size of the new underground facility would be approximately 3,286 square meters (35,370 square feet); the areas proposed to be renovated in all 10 existing buildings would total approximately 5,007 square meters (53,895 square feet). Proposed new underground construction would include nuclear material storage vaults, the larger portion of the critical assembly facility, the active interrogation facility, and a general-purpose nuclear material work bay. **Figure 3-8** shows a schematic of the underground facility. Structures that would be located in the aboveground renovations would include emergency response staging and maintenance, electronics, and a machine shop and instrumentation laboratory in the Hot Cell Facility (Building 6580); the critical assembly control rooms and warehouse in the Auxiliary Hot Cell (Building 6597); a low-scatter facility in the chapel (Building 6596); waste management storage areas in the warehouse (Building 6595); and explosive storage and radioactive-source storage areas in the Reactor Maintenance Facility (Building 6593). An existing shop (Building 6591) would also be used as a staff shop (see Figure 3-7).

3.3.4.2 Annual Operations

The operational characteristics of the facilities under the SNL/NM Alternative, common to all alternatives, are provided in Section 3.2.

3.3.4.3 Construction Requirements

Table 3-7 shows the construction requirement parameters used in this environmental impact analysis.

Table 3-7 Construction Requirements under the SNL/NM Alternative

<i>Requirement</i>	<i>Quantity</i>
Electrical energy (megawatt hours)	170
Peak electrical demand (megawatts)	0.1
Concrete (cubic meters)	15,324
Steel (metric tons)	842
Fuel/gasoline (liters)	(a)
Water (liters)	22,700,000
Land (hectares)	1.82
Construction workers	
Total (during construction)	400
Peak	300
Construction time (months)	16

^a Not provided. Considered to be part of construction costs; contractors to provide fuel/gasoline needed for their machinery. Source: SNL/NM 2001a.

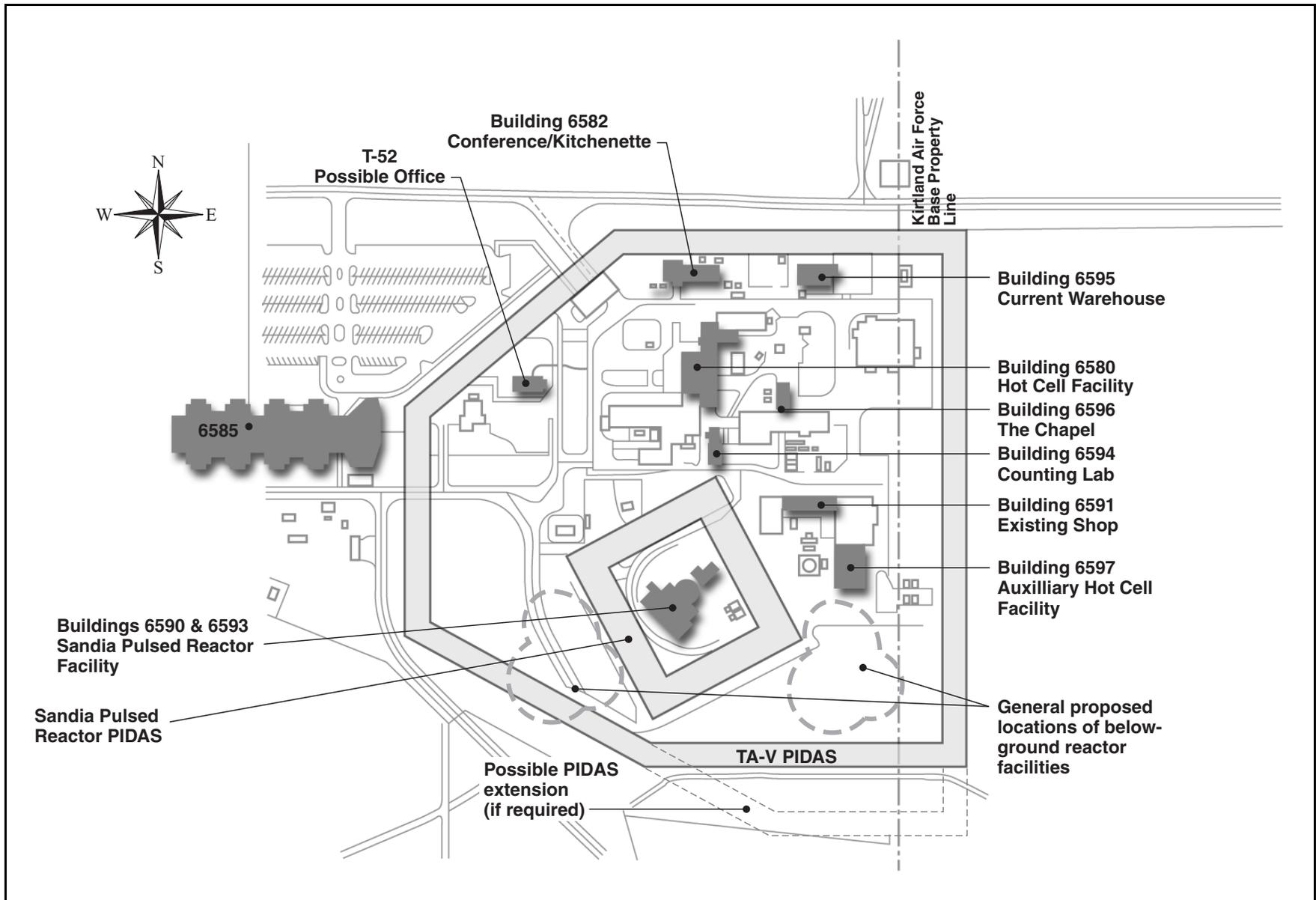


Figure 3-7 Proposed New SNL/NM Facility and Existing Facilities (SNL/NM Alternative)

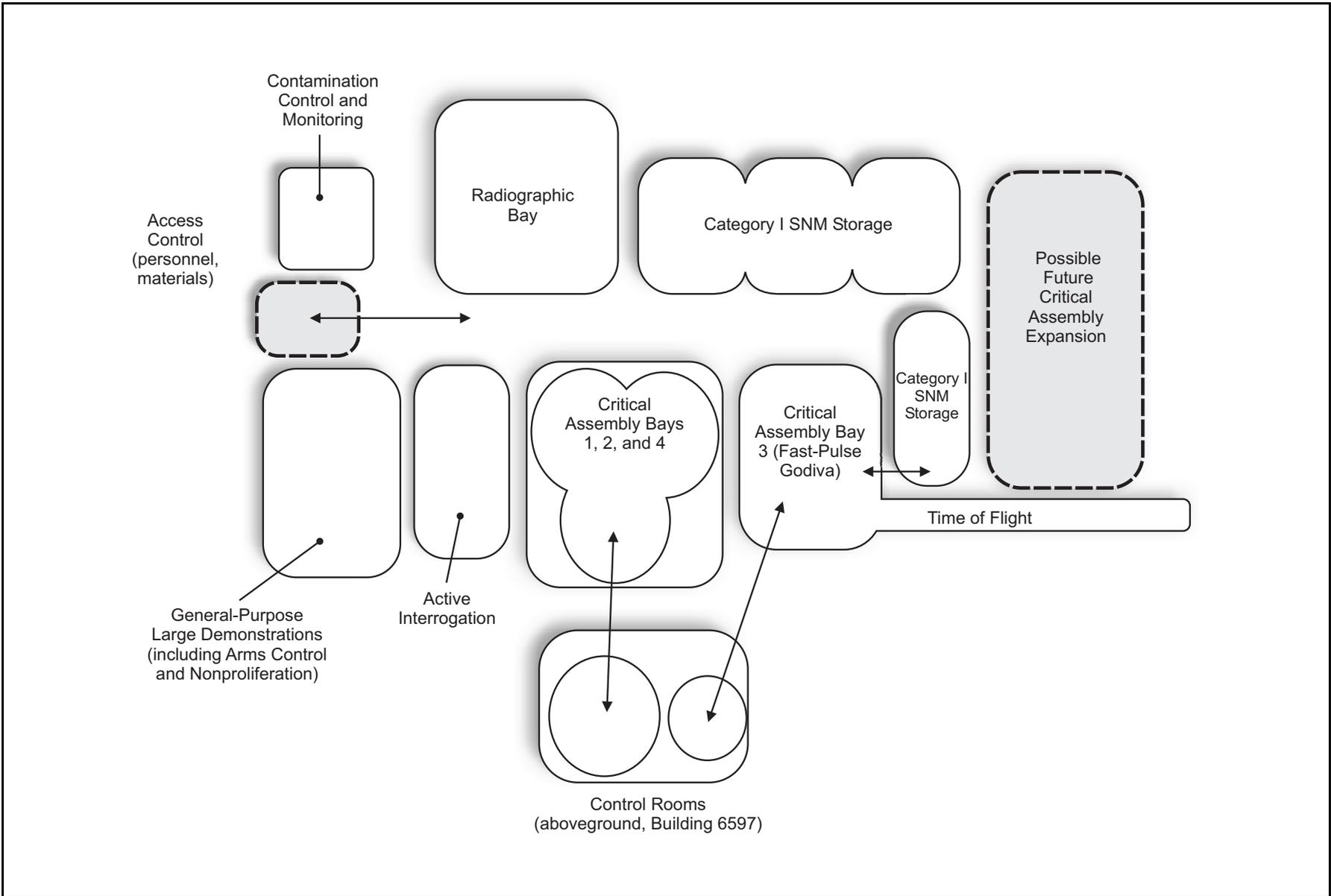


Figure 3-8 Schematic of the Underground Facility (SNL/NM Alternative)