Building 100 is located 1,600 feet north of the rocket engine test cells, which are housed in Building 202. Building 100 provided a safe place from which operators could remotely control engine tests that used hazardous or toxic fuels. From this protected control room, Rocket Engine Test Facility (EETF) personnel could collect data from tests of experimental engine designs.

Building 100 was designed by H. S. Kerline and built by the H. K. Ferguson Company of Cleveland, Ohio. The architect designed this facility using sesthetic principles commonly applied to industrial or laboratory buildings. NASA engineers designed the innovative control room systems.

The building stands on a flat, featurcless area of the NASA-Glenn Research Center that is located at an elevation of 761 feet above sea level. The facility has a "T"-shaped footprint. The long leg of the "T" consist of a corridor. Seventeen offices line both sides of this corridor and wrap around its east end. The cross portion of the "T" consists of a high bay, observation area, and the RETT control room.

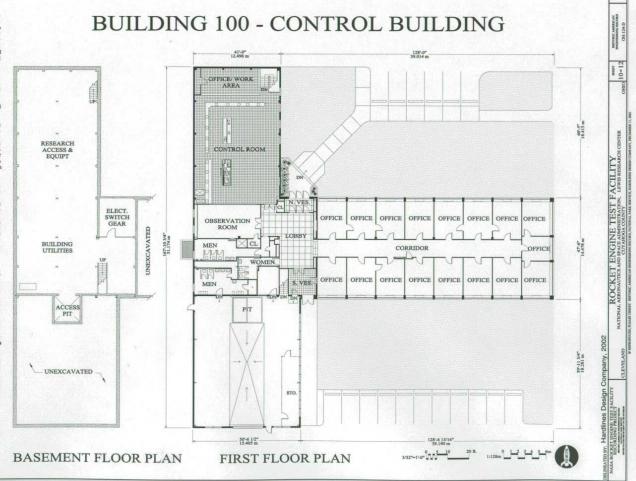
The northern arm of the plan's cross portion contains the control room, an office, and work area. The basement beneath the control room houses utilities, electrical swindpear, and an entry tunnel for steam pipes. This basement also allows access to the wiring chasses, control consoles, and model board in the control room above. The southern arm of the crossbar contains a high-bay area that rises to twenty-one feet, six inches in height. A welve-floot square pit in the floor of the high bay allows heavy equipment to be lowered into the basement beneath the control room.

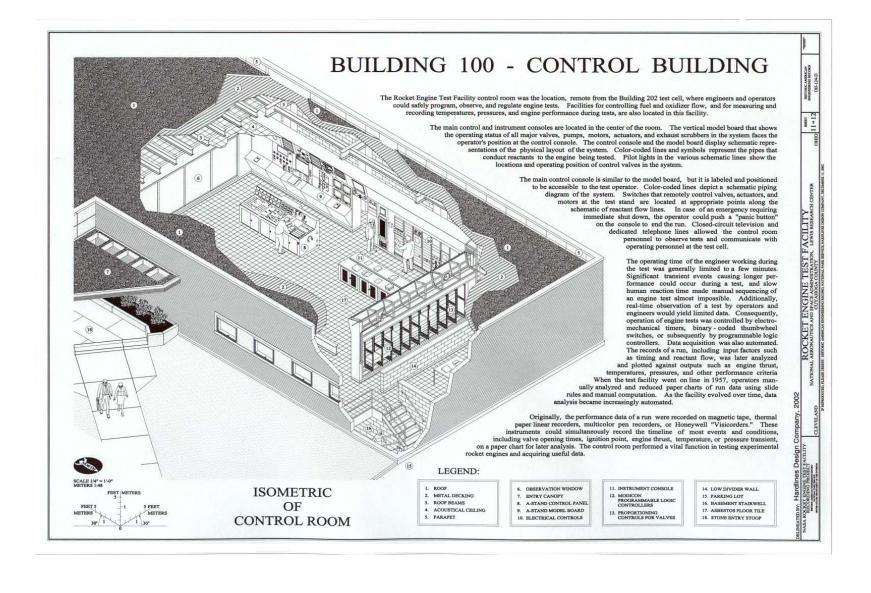
The entrances into Building 100 are located in the angles where the two actions of the "T" intersect. A small termace leads to the main entrance, which is located between the northern arm of the "T" and the office corridor. On the termace outside this main entrance, granite planters flank the exterior doors. A secondary entrance is located between the southern arm of the "T" and the office corridor. Metal canopies protect both entryways. These entrances lead into a central lobby and vestibule that form a transition between the office corridor and the cross arm of the "T." This central area contains restrooms, closes, locker room, and showers.

The building exterior is clad in buff-colored brick laid in running bond. Limestone trim and the grantic planters at the main entrance add visual interest to the exterior. The steel-framed high bay to the south is sheathed with metal panels, the exteriors of which are vertically corrupated and provide a pleasing contrast to the horizontal lines prevalent throughout the building.

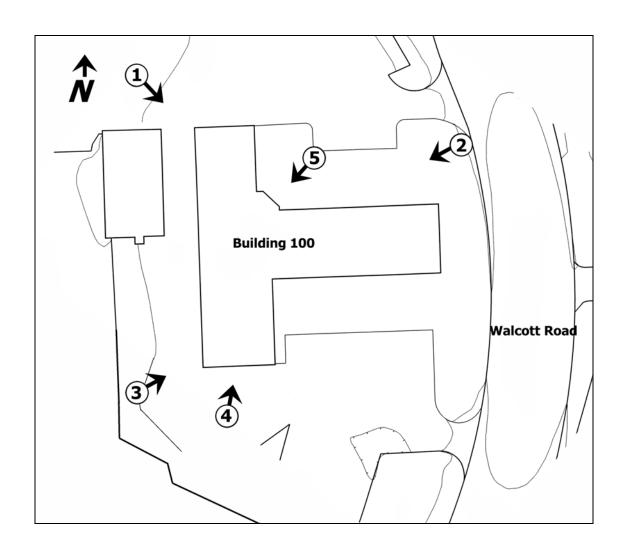
Building 100 is a utilitarian facility where different parts of the structure house distinct functions. This design created an efficient work environment for early rocket engine testing.

Note: Plans depict building as configured ca. 1955.





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