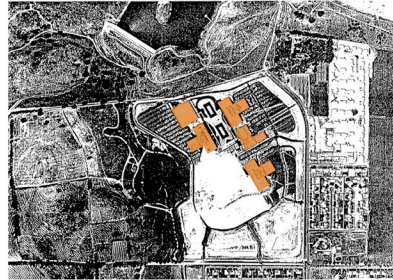
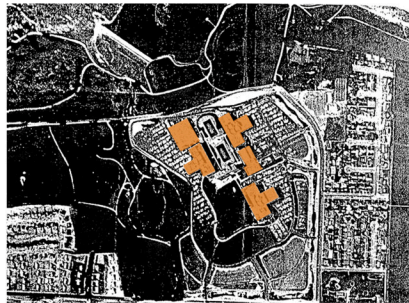


November 3, 1952



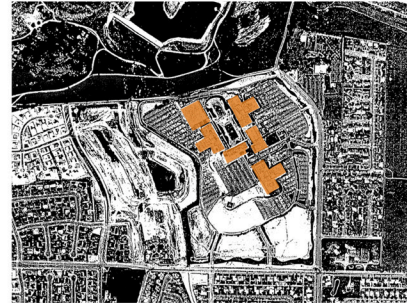
May 10, 1960



April 3, 1963



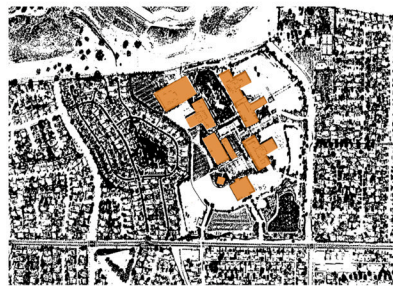
November 27, 1965



March 19, 1968



February 25, 1976



September 19, 1992

12.0 AERIAL PHOTOGRAPH REVIEW

Appendix C contains a series of aerial photographs of the HMSC facility and surrounding land. Photos from 1952, 1960, 1963, 1965, 1968, 1976 and 1992 are included. The photos are described below, in chronological order.

12.1 November 3, 1952 Photograph

In 1952 the subject site was farmland. The knoll later to become the research facility is clearly visible at the center of the photo, outlined by a curved dirt road. A house or other building is at the top of the knoll. The Chatsworth dam and reservoir, in service, are visible north of the site. Hidden Lake (apparently called Lees Lake before renaming by developers) is to the west. The lake appears to have been created by construction of a small earth dam across Chatsworth Creek. The creek is visible between the Chatsworth reservoir and the lake, and again below the lake. Orchards and fields lie west of the lake. Fields lie south and east of the site. Fallbrook Avenue and Roscoe Boulevard, or their forerunners, are in existence, but appear to be dirt roads. No residential neighborhoods or non-farming industries are visible.

12.2 May 10, 1960 Photograph

This very clear photograph shows considerable change from the 1952 photo. The research facility (not yet occupied by Hughes personnel) is partly in operation and partly under construction. Buildings 261, 262, 263, 264, 265, 268 and 269 appear complete. Hundreds of cars are parked around these buildings. The south and southwest portions of the site are graded, but do not yet have building construction underway. Building materials and equipment appear to be present on site, just southwest of the site center (to the east of the southeast corner of Lees/Hidden Lake) and in the extreme northwest. The two large cooling ponds (used through 1964) are visible in the north-central part of the site.

Residential neighborhoods are visible south and east of the site. A recreation area with a pool, tennis courts and park is at the north end of Fallbrook Avenue (this is apparently the Rockwell recreation facility mentioned in Section 4.1). Fallbrook Avenue and a portion of Roscoe Boulevard are now paved.

12.3 April 3, 1963 Photograph

This photograph reveals only minor changes since 1960. The site looks much the same, except that the south and southwest portions of the property no longer appear fresh-graded. Construction materials and equipment are gone, and more employee cars are in the parking lots. The small Building 272 is now visible north of Building 269. Additional residential areas have appeared west and southwest of the site.

12.4 November 27, 1965 Photograph

Again, only minor change is apparent from the previous photo. The small Building 271 has appeared between buildings 262 and 263. Small objects are visible just east of Building 272; these are likely the miscellaneous drums described by McLaren-Hart in their report. It is apparently a weekend day; only scattered cars are present in the parking areas.

Off-site areas are little changed. Levels in the reservoir and in Lees/Hidden Lake are low.

12.5 March 19, 1968 Photograph

The most noteworthy changes visible in this photo are off site: a large area west of the site has been graded to make way for a housing development. Lees/Hidden Lake has been reduced in area, and trenches have been dug to contain Chatsworth Creek (these trenches will soon be covered, obscuring portions of Chatsworth Creek on later photos). More houses have also been constructed to the west of the graded area.

On site, the helipad is now visible. Little else is changed.

12.6 February 25, 1976 Photograph

The site shows no significant changes. North of the site, the Chatsworth reservoir has now been drained. West of the site, the Hidden Lake housing development is complete. At the eastern edge of the photo, other new residences are visible.

12.7 September 19, 1992 Photograph

This very distinct color photograph shows the HMSC site in essentially its current form. Buildings 270, 274, 275, 276, 277, 281 and 282 (garage) have been added to complete the present roster. The cooling ponds are gone, having been replaced by a landscaped park area. Additional parking, and softball and soccer fields have been added. Security fences are visible.

The areas surrounding the site have not changed greatly. A shopping mall has been constructed at the Fallbrook/Roscoe intersection, southeast of the HMSC site. An additional nineteen houses are present just north of the shopping center, across Roscoe Boulevard. The Chatsworth reservoir is still empty.