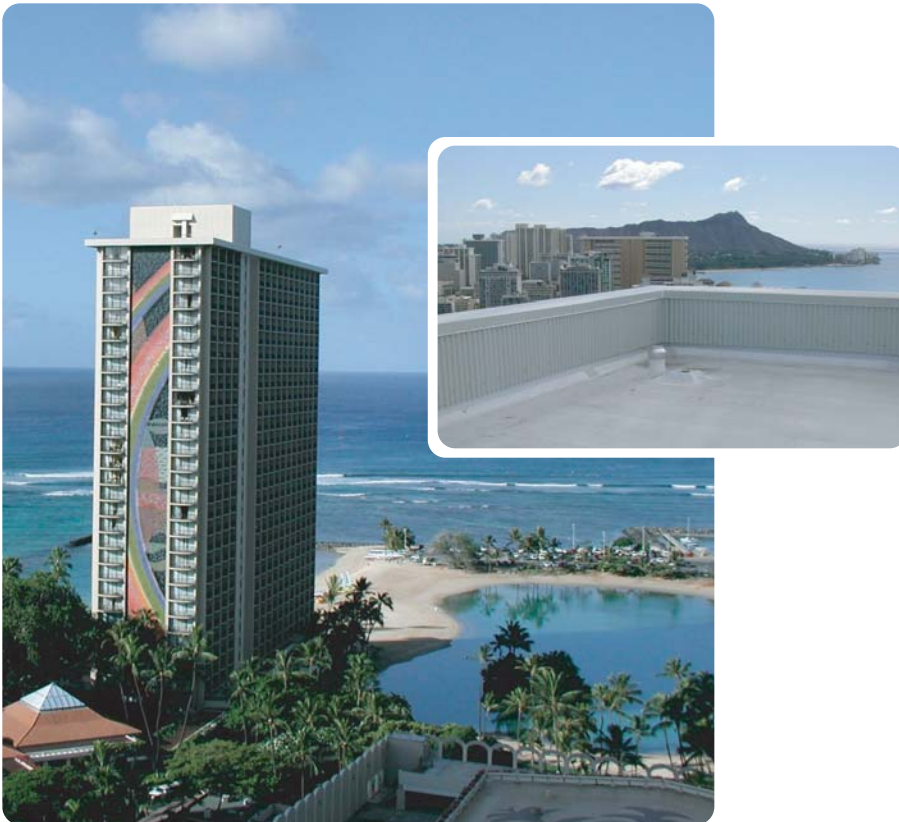


HILTON RAINBOW TOWER

HILTON HAWAIIAN VILLAGE; HONOLULU, HAWAII



PROJECT SUMMARY

The Hilton Rainbow Tower was built in the mid-1950's as the premier landmark tower within the newly renovated Hilton Hawaiian Village. The original roof was replaced in 1972 and again in 1982. ERD principals did the design in 1982.

In 2002, Hilton contacted ERD and requested a re-roof design to replace the existing roof, not withstanding its perfect performance over the last twenty years. Hilton wanted to continue with the record leak-free performance standard, set before the existing roof began to falter. The penthouse rooms at the top floor of the tower are the most expensive inventory within the complex.

CHALLENGE

There is no "good" time to re-roof a resort in Hawaii. High tourist season is virtually twelve months a year. Hilton requested a design that would minimize noise, odor and the period of inconvenience to the penthouse guests. Little or no noise was one of the most important aspects of the design.

SOLUTION

Trinity | ERD developed an insulation and roof assembly that would require minimum drilling and minimal use of adhesives. Portions of the roof were prefabricated and lifted in place by using the service elevators. Non percussion cutting carbide bits were used where holes were required in concrete.

The design allowed roofers to continue working with minimal impact to the guests, keeping the project on schedule and revenue flowing for the hotel.