WEIR'S PLAZA

Dallas, Texas

COMPLETION DATE
February 2022

CONSTRUCTION COST
$70 million

SERVICES
Structural Engineering

ARCHITECT
GFF Architects

GENERAL CONTRACTOR
JE Dunn Construction

PROJECT DESCRIPTION

RLG provided Structural Engineering services for the Weir's Plaza, located in Dallas, Texas. This structure encompasses 250,000 square feet of office space, and 43,000 square feet of retail space. It also features six levels of below-grade parking, providing a total of 800 parking spaces.

The Weir's Plaza construction project presented the RLG team with a series of intricate challenges. The building is situated within a densely populated urban environment, therefore the project required meticulous planning and execution to navigate the site. Also, the deep excavation necessary for the parking garage posed a significant engineering hurdle, it required structural considerations to ensure the safety and stability of the entire development and adjacent buildings.

Preserving the historical facade of the 106-year-old Highland Park Soda Fountain, while seamlessly integrating it with the new construction proved to be a multifaceted structural engineering task, demanding an eye for detail and a thorough understanding of both the old and new structures. Above ground, the design of the office building introduced further complexities with multiple building step backs, and coordinating the column spacing for the office building with the below-grade parking structure required the implementation of column transfers to harmonize the two components. These challenges served as opportunities for the RLG team to demonstrate their expertise and ingenuity in the field of structural engineering

The structure featured a combination of materials, including post-tensioned concrete, concrete pan joists, and structural steel for bracing the soda fountain facade. Shear walls and moment frames were also utilized for the lateral system.