

FOREST MEADOW JUNIOR HIGH

Dallas, Texas



COMPLETION DATE

To be Determined

CONSTRUCTION COST

\$50 million

SERVICES

Civil Engineering, Survey

ARCHITECT

Perkins + Will

GENERAL CONTRACTOR

Core Construction

PROJECT DESCRIPTION

RLG Consulting Engineers provided Civil Engineering and Survey services for the Forest Meadow Junior High in Dallas, Texas. The project involved renovating and expanding the existing 2-story structure, to add an additional grade level.

The site required coordinating with the City of Dallas Fire department. This coordination was necessary to ensure adequate hose lay was provided from a dead-end fire lane for a courtyard area located between the existing and proposed building. Additionally coordination was required to relocate a fire hydrant to maintain fire protection for the residential neighborhood south of the property due to a conflict with a shifted drive.

Site grading posed a challenge due to multiple finished floor levels, ensuring proper ADA access was maintained across a steep drive to the new tennis courts and directed water to specific outfalls for detention. To address the issue of grade sloping towards the proposed building expansion, drains were placed purposefully at doors and sidewalks below the courtyard. The Civil Team collaborated with the Dallas Traffic Department to propose a new sidewalk along the frontage road update public signage and striping near the school, and install pedestrian push buttons at the corner Abrams Road and Whitehurst Drive. Our Team also coordinated with the school's Traffic Engineer to ensure proper striping was provided on school property that worked with the Traffic Management Plan.

Due to the absence of city as-built drawings, the design ensured the same or reduced amount of water drained to city storm sewer pipes or curb inlets. This required coordination with the plumbing engineer to divert roof drainage to specific locations without conflicting with the site design and existing utilities.

FOREST MEADOW JUNIOR HIGH (CONT'D)

Dallas, Texas

One notable challenge was the need to shift the underground detention system 150 feet north due to unexpected conflicts with gas and existing sanitary lines. Design modifications also had to be made during construction due to the lack of information regarding existing private utilities, particularly for on-site water and sanitary sewer service line connections.

The Survey department played a crucial role by providing various services, including a boundary and topographic survey, subdivision plat, and construction staking. The plat required coordination throughout the City of Dallas engineering review process due to changes in the detention easement at different stages of the design.

