

TEXAS HEALTH RESOURCES / UT SOUTHWESTERN FRISCO HOSPITAL & MOB

FRISCO, TEXAS



YEAR COMPLETED:

Fall 2019 (est.)

OWNER:

Texas Health Resources

CLIENT NAME:

HKS

RLG SERVICES:

Civil Engineering
Survey

PROJECT DESCRIPTION /SCOPE:

Texas Health Resources and UT Southwestern Medical Center formed an alliance as Southwestern Health Resources, to create one of the largest health care networks in Texas. As a result of the partnership, the two medical systems enlisted the help of RLG Consulting Engineers to provide civil engineering and surveying services to build the first jointly owned and operated hospital and medical office building located at Cobb Hill and North Dallas Tollway in Frisco.

The twenty-acre campus includes Texas Health Hospital Frisco, a 325,000 square foot, 80-bed acute care hospital with the ability to expand to 140 beds if needed. The hospital will also include a 24/7 emergency room, surgical services, women's services and a neonatal intensive care unit.

The campus will also include the UT Southwestern Medical Center at Frisco, a 120,000-square-foot multispecialty clinic featuring an extension of UT Southwestern's Peter O'Donnell Jr. Brain Institute in addition to the Harold C. Simmons Comprehensive Cancer Center, which will provide programs for breast and colon cancer.

RLG Consulting Engineers team of civil engineers provided civil design services for the new hospital, medical office building and parking garage. Specific services provided include the demolition, paving plans and details, site grading, drainage analysis with a design for two underground detention areas in addition to site drainage systems and water and sanitary sewer design.

The drainage design was uniquely designed to create two underground detention areas with two independent outlet structures. As a part of the drainage design, RLG worked to coordinate the upstream drainage by-pass throughout the 20-acre site, in addition to downstream coordination with Newton Drive improvements.

The detention area was designed to be placed underground in lieu of an above ground pond. The benefit of this design allows Texas Health Resources and UT-Southwestern Medical Center to maximize the use of the 20-acres and will not require any sacrifices of space to accommodate parking. Additionally, the city of Frisco requires open spaces for landscape features.

Since two detention areas were needed, balancing the volume of each area presented a challenge. Each area had its limitations restricting the maximum volume however, RLG was up to the challenge of maintaining the required volume for the entire site.

RLG's surveying department provided topographic and improvement surveys, a conveyance plat, ALTA/NSPS land title survey, construction staking and the final plat for the 20-acre campus.

Construction began in the summer of 2017 and is expected to be completed by fall 2019.