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SIMON DESIGN ENGINEERING LLC



DANA-FARBER CANCER INSTITUTE YAWKEY CENTER FOR CANCER CARE • BOSTON, MA

ONE MEAN, GREEN CANCER FIGHTING MACHINE: *The New Face of Boston's Cancer Care*

The construction of the underground garage required the excavation and removal of 20,000 tons of soil to a depth of 80 feet beneath Brookline Avenue and 50 feet below the Medical Area Total Energy Plant (MATEP).

Do not be fooled by the good looks, exceptional functionality, and beauty of the interior and rooftop gardens. Dana-Farber Cancer Institute (DFCI) has created a state-of-the-art cancer-combating arena that is patient and family focused, and earth-friendly. The newly opened Yawkey Center for Cancer Care (YCCC) building is expected to receive a LEED Silver rating, is a pilot project in the Green Guide for Healthcare Initiative, and is a model for Greater Boston Breathes Better. [More...](#)

[Simon Design](#) was recently awarded a [Silver Award for Engineering Excellence](#) by the American Council of Engineering Companies for Structural Engineer of Record for the superstructure and foundations work on this project. [With over 20 years of experience on the DFCI campus](#), including the structural and isolation design of the abutting, award-winning Smith Building, SDE also provided site engineering master planning. Intensive collaboration was demonstrated by the entire design team and ultimately resulted in the project being completed two months ahead of schedule and on budget.

Utilizing the last buildable site on the DFCI Longwood Campus, the YCCC has seven stories of below-grade parking and fifteen above-grade stories of mixed-use and clinical services. The YCCC is entirely isolated from the surrounding soil with a three-foot thick reinforced concrete slurry wall that served as an excavation support system, groundwater cutoff, and a permanent isolation wall. With no physical connection to the slurry walls that surround the structure, the building is literally a free-standing 22-story building that begins seven stories below grade and is supported on isolated piers founded on bedrock. Supporting the slurry walls are 286 permanent tie back anchors, composed of 140 foot-long bundles of steel cables (total of 75 miles of steel, weighing 148 tons). [More...](#)

Informational Tidbit: [Simon Design](#) is dedicated to fighting cancer. For donation options, please visit our [Fight Cancer](#) page or the Dana-Farber Cancer Institute [Jimmy Fund](#) website.

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We'd love to hear from you - email us at INFO@SDE-US.COM

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