

Medical Facility Construction With Design Build

HEALTHCARE TODAY is centered on efficiency, timeliness and productivity. Whether servicing hospitals, biotech labs or research institutions, architecture for the medical sector is based on customization. Complex facility needs spanning mechanical, technical, electrical, logistic and communicative systems are often impacted with influxes in technology and legalities. In the narrative of healthcare design details matter.

For owners, the resulting economic juxtaposition between fostering quality performance and managing expenses necessitates a pragmatic view on construction. Whether modernizing existing hospital facilities, creating energy system upgrades or equipment conversions, design build is a fastidious method optimizing project delivery.



For research laboratories and bio-incubators whose greatest assets are exploration and experimentation, architecture is centered on supporting processes. Considerable upfront ideation is necessary to generate unique design features. With research and development facilities anomalous in terms of structure, footprint and equipment accommodations, design build allows the client to anticipate demand, attribute costs and configure space to meet current and future needs.

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Across medical markets power is an influential factor – refrigerators, freezers, generators, patient medical equipment and state-of-the-art HVAC systems necessitate power levels double that of traditional office buildings. Design build enables pre-planning for long-term changes such as equipment upgrades by configuring large utility plenums between floors with easy access to utility shafts to allow expansion.

Another key factor in designing for this sector is creating well-conditioned and productive environments. Critical features such as structure, materials, spatial order and light act as perceptive and aesthetic elements. As artificial intelligence changes the paradigm for the medical field, design build enables facilities

to optimize space configurations for benches, equipment and common shared areas designed for social and work purposes. A functional design promotes innovation, discovery and efficiency, allowing the facility to become a driver of results.

Winning architectural design is based upon key elements – it starts with a business case which is then built upon by operational efficiencies, space utilization and technological expansion. Within the medical sector, design build acts as a catalyst of pragmatic finances, collaboration, time/resource efficiencies and the ability for future scaling. The results ensure a long-term developmental approach that allows facilities to navigate this rapidly evolving sector towards success.



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