



# HIGH-EFFICIENCY SMALL FORMAT HOSPITALS

SUMMARY

## ABSTRACT

Reimagining the hospital to achieve increased patient satisfaction, staff efficiency, quality of patient care, reduced waiting times, and long-term financial benefits. The HESF Hospital model creates an opportunity to simultaneously respond to market demands while establishing a chassis allowing flexible future expansions while enjoying uninterrupted hospital services. As a critical facility, it is built to withstand major climactic events.

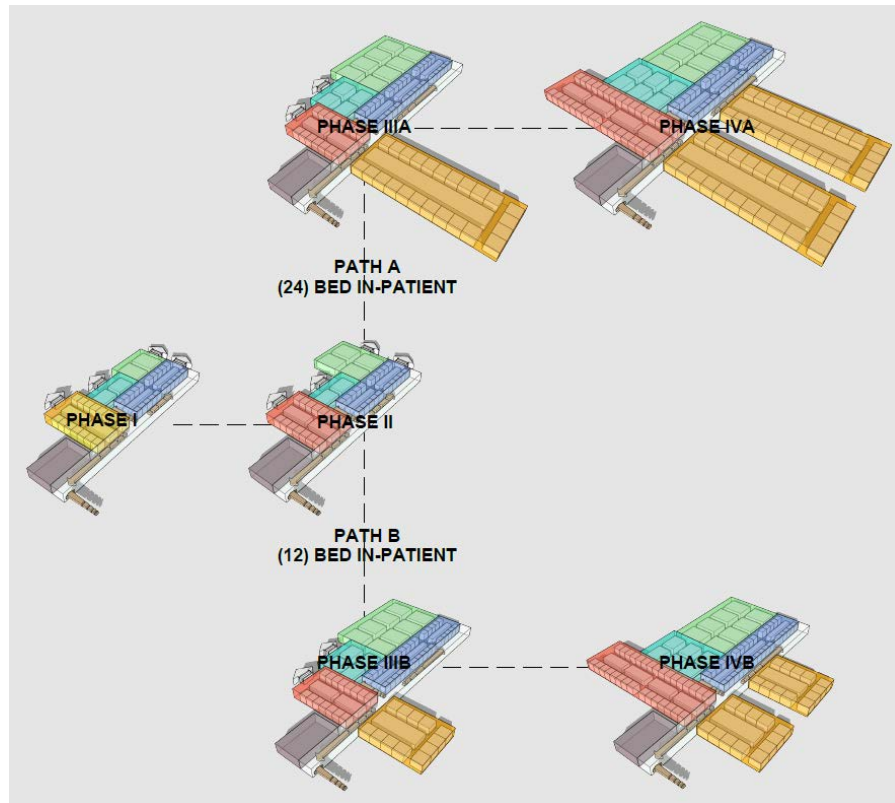
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As the delivery of healthcare service changes, the demand for innovative physical plants to meet those challenges increases. While large, centrally focused hospital campuses are able to provide a wide range of services, they typically require patients to travel and navigate confusing, complex buildings. With patient stress levels already high, these visits create unnecessary additional stress through the need to navigate a complex maze to a destination. Traditionally hospitals and systems have invested in renovation when renewal was in order. Renovations simply take an already chaotic situation and either add to it or try to make it better.

**Figure 1.** *Expandable Chassis to accommodate demand volume & various treatment modalities.*



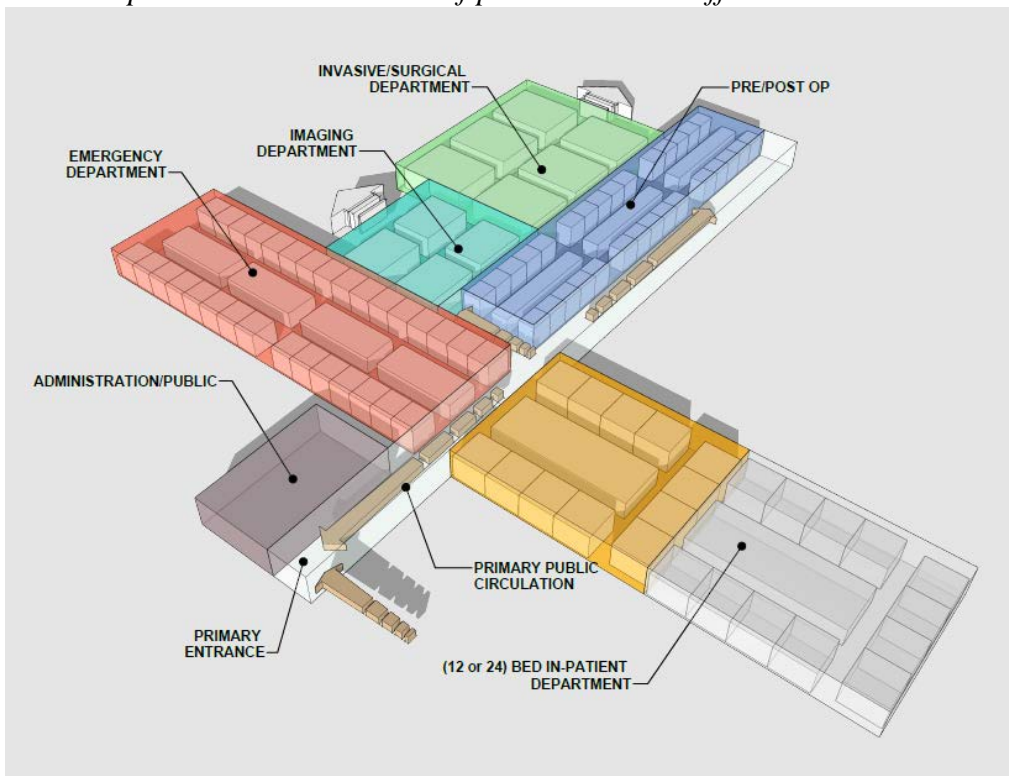
### *A New Way Forward*

At CoAction we believe the time has come for a logical hospital plan that has all of the attributes of a large facility, but none of its complexities. Large campuses are not patient friendly, tend to be less staff efficient and have high operating costs. Our High Efficiency Small Format Hospital (HESFH) provides the flexible, simply organized chassis that is patient focused, promotes staff efficiency and has set operating costs. We leverage evolving medical and information technology to maximize the impact of our small footprint.

### *Basis of Design*

At its maximum size the facility has 48 beds, up to 8 operating suites, a full complement of imaging services along with emergency medicine. At a minimum it can begin as an ambulatory surgery center (ASC) with a clinic or as a small 12 bed hospital. The HESFH chassis can accommodate the modalities required in contemporary medicine including invasive procedures, image guided diagnostics and treatment, emergency medicine and outpatient treatment. It meets all of the requirements for a general hospital per the Facility Guidelines Institute (FGI). This means it can be licensed as a general hospital in all 50 states and Puerto Rico. Given its compact design and function as a critical facility, it will be built to withstand all climactic events. CoAction can grow the facility larger if that is required. By doing so we will not lose the fundamentals of its efficient design.

**Figure 2.** *Modular development with optimized size, circulation, & cost to promote increased level of patient care & staff convenience.*



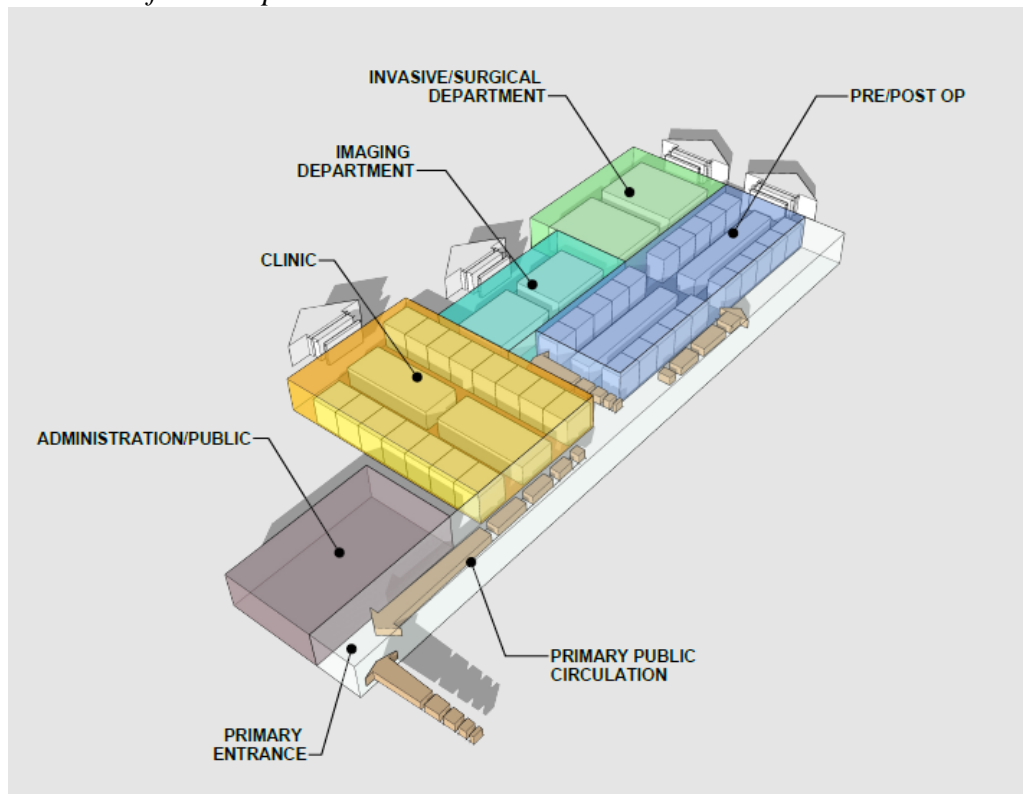
### *Clinical Concepts; Efficiency, Safety, Satisfaction*

Clinical operations are based on a shared services concept with all invasive procedures utilizing the same prep and recovery area. Common registration and discharge locations for all procedures helps reduce staffing and is more patient friendly. The trend is to move more complex procedures to the outpatient setting. The HESFH responds to that trend through our simple organization. This design results in fewer staff and allows logical patient management throughout the day. The simple organization translates to a less stressful experience for patients and the focus on curated public space allows for family members to relax while their loved ones are being treated.

We have designed the facility to be able to start as small as an ambulatory surgery center (ASC) growing into a full hospital with no interruption of operations. Initially a clinic can be built that can transition to emergency services with little construction. Growth is planned and can follow the market demand.

The facility can be delivered quickly. Care has been taken to allow pre-manufacturing of components off site and its modular design utilizes common structural bays with all fixed elements (columns, engineering systems, etc) located in such a manner to provide the largest open floor plate. It is able to meet immediate and future market demands quickly.

**Figure 3.** Initial chassis provides basic services and serves as the core of future expansion.



### *Design for the Future*

CoAction has adopted the twin concepts of flexibility and adaptability in the planning of this facility. The facility is flexible in its fundamental structure offering large open spaces that can be reconfigured if needed. It is adaptable based on the idea that there are no custom or one off spaces. Exam rooms, operating rooms, treatment rooms are all of universal design allowing any specialty or modality to utilize them. Providing common support enhances these concepts.

Our HESFH is a simple response to questions that have typically generated complex answers.