

# Infectious Disease Isolation Conversion

## Short-Term Solution to a Large-Scale Event

In these uncertain times, we recognize there are many critical issues facing healthcare facilities and operations. Converting existing spaces in a healthcare facility into negative-pressure infectious disease isolation rooms is possible, and can be accomplished quickly and effectively.

### Where will you need infectious isolation?

- Emergency Department
- Patient Rooms
- ICU

### Critical Steps in Converting Existing Space

*What needs to happen first, and how we can support you. These steps outline a proposed process, understanding each facility is unique and will require some tailored response.*

**Assessment** – Verification of existing facility's power and HVAC systems

- Airflow pre-audit
- Assessment of power distribution in electrical panels

#### Identify Rooms for Conversion

##### Conversion Process

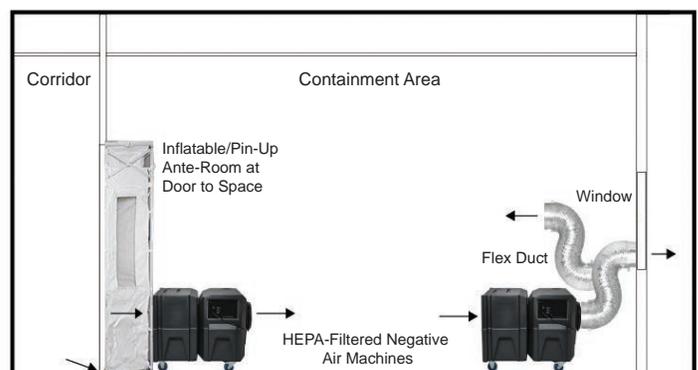
- Prepare the electrical and HVAC systems to support the steps below:
  - Install a HEPA negative air machine, ducted out the window, to negatively pressurize the room
  - Install a HEPA negative air machine and inflatable ante room to create a barrier to the isolation room
  - Modify the remaining HVAC systems and controls as needed

##### Critical Considerations when Converting Spaces

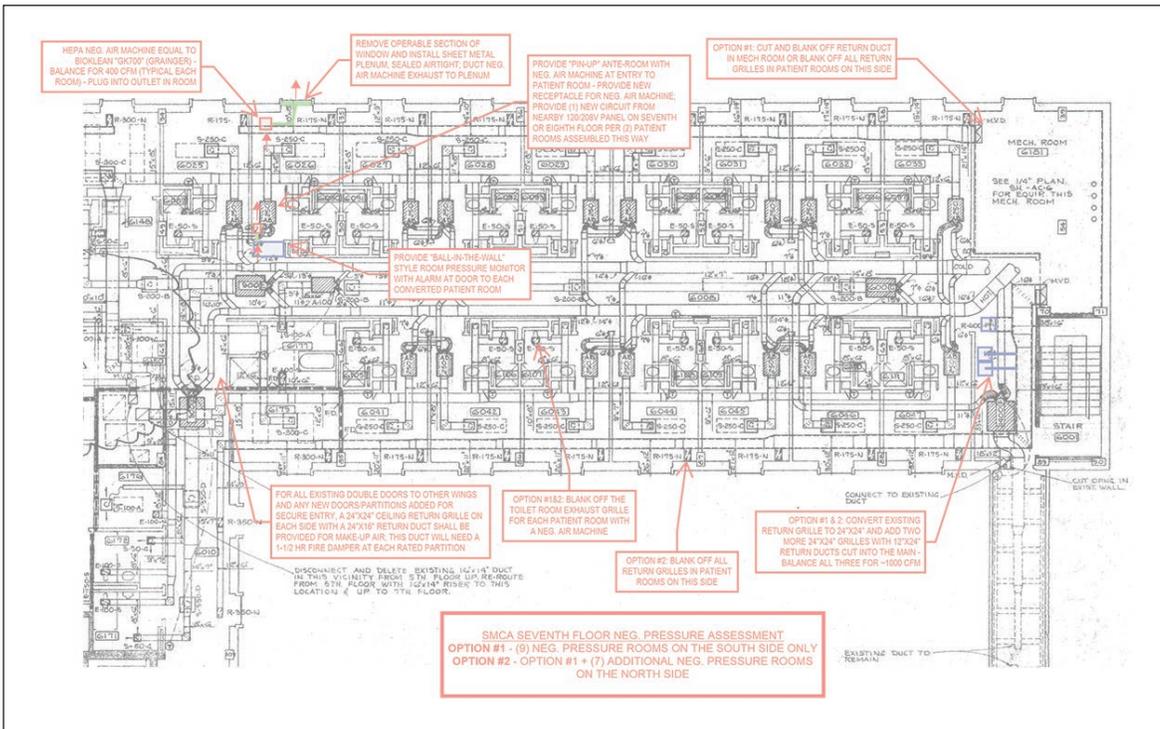
- Air Pressurization
- Patient and Staff Comfort – *Temperature and humidity control of these areas may be affected*
- Noise – *The machines and equipment supporting these conversions are loud and will likely impact patient rooms and surrounding areas*



O'Connell Robertson provided comprehensive architecture and engineering services for the **Texas Center for Infectious Disease** hospital in San Antonio, which is a 60,000 SF, 75-bed hospital with every patient room designed as an airborne infection isolation room. Based on this experience, our engineers bring a uniquely specialized knowledge that can support your short-term system conversion needs in the event of an infectious disease large-scale event. We have implemented design solutions that establish and control complex infection and isolation protocols for both staff and patients. Let us know how we can help you.



For 70 years, O'Connell Robertson has been providing planning and design for hospitals throughout Texas. Our expertise in healthcare architecture and engineering means we understand the complex issues facing medical facilities, including advances in medicine and medical technology, patient satisfaction, and staff retention. Our specialized team includes credentialed healthcare architects and engineers with specific knowledge to create environments that increase efficiency and improve patient outcomes. *These credentials supplement a team of architects, engineers and designers dedicated to creating healthcare environments that positively impact how people heal and work. We bring value to our clients through creative problem solving and design that positively impacts our communities.*



Graphic is an example of a potential solution offered for an existing hospital conversion project. Every facility is different and will require a tailored response.

## Office Locations

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## Emergency Response Services

- Assessment of existing facility's MEP systems and floor plan
- Identification of best candidates for isolation conversion
- Site assessment for portable buildings or mobile response units