

Medical Equipment Planning

IHP's medical equipment planning activities fill an essential role, in the overall project team, for delivering a successful healthcare design and construction project. Equipment planning activities start early with the development of an accurate equipment list and cost estimate. Project specific equipment information can be developed as soon as a Space Program is available. It can also be developed based on the project's Schematic Design drawings.

During design, IHP works with the owner to define and confirm the project's equipment needs – ultimately defining the budget and confirming the equipment's technical requirements. This is accomplished by working closely with the owner's key stakeholders – physicians, administrators, department managers, biomedical engineers, materials management and other staff, to identify, define and finalize the project's equipment needs.

IHP leads the owner's stakeholders through a proven process to finalize the project's equipment requirements. Part of this process includes organizing and managing focused vendor presentations and or site visits to enable stakeholders to understand future equipment trends and technologies that could impact equipment included in their project.

In addition to defining the owner's needs, IHP understands the architects and engineers need for technical information on the project's equipment. IHP begins providing technical information to the design team as soon as the project's preliminary equipment list is developed. While IHP is working with the owner to finalize equipment decisions and approvals, IHP is providing the design team with equipment information to be used as a Basis of Design.

IHP objectively requests and manages vendor drawings for complex equipment such as imaging systems, OR lights and booms, sterilization equipment, etc. This information is project specific and provided to the design team for review and coordination. Vendor drawings, technical data sheets and IHP reports become part of the project's documents. IHP documents are issued in conjunction with the architect documents, at the end of each design phase, and for Construction Documents.



Operating Room



Exam / Procedure Room



3D Rendering of IR Lab

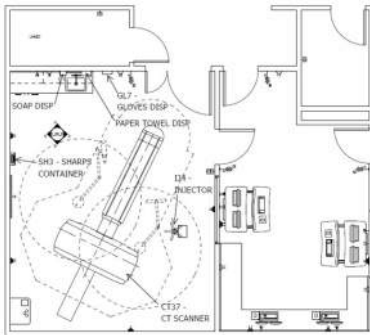


BIM Model

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CT Suite



CT Suite Layout



Service Column

Equipment Planning *continued*

Before construction begins IHP works closely with the contractor to ensure they are aware of the equipment included in the project, as well as any special equipment requirements that will impact their construction schedule or work efforts.

IHP works with the owner's procurement team and the contractor to develop a preliminary procurement and delivery schedule. This schedule includes all owner furnished equipment. It provides a critical roadmap and schedule for both the owner's procurement team and the contractor. During construction IHP coordinates activities with the contractor and vendors to ensure equipment rough-ins are completed on schedule and ready for equipment delivery and installation.

Support for Design Team

IHP understands and appreciates the design team's need for timely, design critical information on medical equipment. Due to accelerated design schedules and Revit requirements, more information is needed earlier in design. IHP recognizes the importance of this and is committed to providing the design team with the equipment information they need—as soon as possible. IHP can provide project specific information as soon as the preliminary equipment list is developed.

In addition to providing technical—spatial, utility and structural information— IHP works closely with the architect's medical planners to support their design efforts. This is accomplished by providing additional information regarding space requirements around equipment for maintenance, operational workflows, staff and patient access, travel paths for patients and equipment.

IHP supports the architect's work efforts, in Revit, by providing Revit families for equipment. In addition, IHP can populate the Revit model through developing and maintaining architect approved equipment work sets. IHP works closely with the architect's Revit model manager to understand and follow the project's guidelines and standards.

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Support for Design Team *continued*

IHP encourages and supports ongoing equipment coordination between all parties of the design team. It is critical to the delivery of a successful project. IHP is committed to keeping the design team informed of owner approved equipment changes by providing accurate and complete equipment information in a timely manner.

IHP provides a variety of reports, in a variety of formats, to support the owner and design team. Owner focused reports provide financial information as well as a variety of equipment reports. Reports for the design team are more focused on providing technical information for equipment as well as where items are located throughout the project. IHP issues formal project documents to support the architect's project documents released for Schematic Design, Design Development and Construction Documents.

Support during Construction

After Construction Documents are issued and the contractor has had time to review them, IHP will schedule a "page-turn" meeting with the contractor. The purpose of this meeting is to review the equipment information in the project's Construction Documents with the contractor's team. IHP and the contractor review the project's construction schedule and technical requirements for Contractor Installed (CI) and Vendor Installed (VI) equipment. This deep dive with the contractor encourages open dialog between the contractor and IHP regarding any and all equipment related issues throughout construction.

As construction and procurement progress, IHP continues working with the owner, design team and contractor to update the project's Construction Documents to reflect owner approved equipment changes. This includes obtaining and issuing new equipment data sheets and or drawings to the design team for review and coordination. IHP's proactive approach in working with the owner to manage equipment changes during construction is proven to minimize equipment related change orders.

IHP's focused coordination efforts with the contractor and vendors is intended to ensure equipment rough-ins are correct, enabling timely installation of equipment. Depending on the owner's needs, IHP can provide varying levels of procurement support and assistance to ensure they are aware of the tasks for which they are responsible, assist with completion of the tasks necessary to support the procurement schedule, and ultimately the project's construction and start-up schedule.



Automated Supply Cabinets



OR during Construction



Equipment ready for placement

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