

*See UM Consultant Procedures and Design Guidelines. All design guidelines posted are applicable. Information below supplements and supersedes information provided in Division 01 of those documents.*

## **General**

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1. All domestic water, power, chilled water and steam is provided from MU's utility (CF Energy Management) for UH, MOI, MUPC, and HSMB facilities. All other facilities are supplied through municipal providers.
2. Project design and material selection shall follow best practices and life cycle cost value per [UM Consultant Procedures and Design Guidelines](#) (CPDG).
3. Design decisions that don't meet these or University of Missouri – Facilities Planning and Development (UM FPD) guidelines shall be reviewed, evaluated for impact to the total project and approved in writing by Owner's Representative and MUHC Planning, Design and Construction. Deviations are to be presented to the Project Manager and MUHC PD&C representatives and approved in writing prior to incorporation in the project documents.
4. Each Project shall be evaluated to determine the need for 3rd party commissioning.
5. Access to electrical and mechanical rooms shall be located outside sterile areas.
6. All equipment shall be accessible for maintenance whether floor or ceiling mounted.
7. Utilize universal room design so that items such as thermostats, light switches, etc. are installed in the same place on each unit and in like rooms.
8. Coordinate room numbering with Project Manager and MU Health Care representative during the Design Development phase of the project for specific approval by MUHC Committee. These numbers and designations will not be allowed to be modified after committee approval. Room numbering shall follow MUHC/MU room numbering guidelines included below in Division 10 guidance. Room names and numbers, and column lines and their designations, shall appear on all floor and partial floor plans as they appear on architectural

drawings. Use of open water features as an indoor design element is prohibited.

9. Floor and partial plans shall include graphic scales, north arrows and key plan.
10. If scope of work will impair utilities in other parts of the facility that are to remain operational during construction, design must include measure to keep those areas operational. Contract documents must include a list of anticipated major outages to systems and shall include systems/areas outside the project work area that will be impacted. Coordinate with Project Manager to develop and include a utility outage matrix within the contract documents.
11. Any devices required for system isolation to tie-in new work shall be shown on the plans graphically by location, not simply identifying a room number. If isolation device doesn't exist, or an existing device is determined to be defective, it shall be installed or replaced as part of the project. System isolation must be included in design if there are not sufficient devices existing to isolate required areas.
  - The consultant shall develop a utility shut-down matrix for inclusion in the project documents that identifies the shutdown location, affected areas, and description of the shutdown. This effort may require the consultant to perform a site survey that identifies and recommends further investigation and testing of the systems involved in the design.
12. If scope of work will impair utilities in other parts of the facility that are to remain operational during construction, design must include measure to keep those areas operational.
13. The consultant shall obtain the current version of the MUHC Healthcare Construction Guidelines from the Project Manager to review and coordinate the design and engineering efforts to include appropriate direction and detail in the project documents.

14. The Operating and Maintenance Manual shall include a single equipment list of all equipment provided by the contractor. It shall be placed at the Division 1 section the Project Manual. A template for the list shall be included in the Division 1 Logs section. The following information is required for each piece of equipment:

- Equipment Name
- Equipment Designation
- Manufacturer
- Model Number
- Serial Number
- Location (Room Name & Number)

END OF SECTION