DESIGN REQUIREMENTS

2.0 CODES, LAWS, RULES AND REGULATORY REQUIREMENTS

DFCM DESIGN MANUAL
UNIVERSITY OF UTAH SUPPLEMENT

January 15, 2016
**PREFACE**

University of Utah Supplement

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**GENERAL INTRODUCTION TO THE UNIVERSITY OF UTAH SUPPLEMENT:**

The DFCM Design Manual “Design Requirements” (State of Utah, Department of Administrative Services, Division of Facilities Construction and Management, referred to herein as “DFCM Manual” or “Manual”) dated June 11, 2009 including highlighted updates is the basis for A/E design services provided for all University of Utah projects.

This document accepts the DFCM Manual as the University of Utah standard, and supplements the Manual with requirements which are needed to satisfy University organization and mission objectives.

The reader is directed first to the DFCM Manual, then to this supplement where added requirements are preceded by “**ADDED**” and paragraph alterations required to accommodate University processes are preceded by “**REVISED**”.

To remain consistent with the DFCM Manual, this supplement is organized in a format matching that of the parent Manual. Only portions of the parent Manual are reproduced in this supplement, either as navigation guides or as altered paragraphs. DFCM text is presented in a gray font. University additions and insertions are presented in normal font.

**ADDED:**

The purpose of this supplement is to acquaint the A/E with functions and standards of the University of Utah. A basic knowledge in these areas is essential before an A/E can successfully carry out its contract responsibilities.

This supplement describes University requirements which pertain to the construction of new and remodeled facilities.

**ADDED:**

**REVIZIONS SUMMARY**

for the University of Utah Supplement:

<table>
<thead>
<tr>
<th>REVISION DATE</th>
<th>LOCATION</th>
<th>SUMMARY OF CHANGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 May 2015</td>
<td>- - -</td>
<td>DFCM quoted Text and Numbering revised.</td>
</tr>
<tr>
<td>06 January 2012</td>
<td>- - -</td>
<td>University Design Standards. The former University Design Standards Chapters 1 through 12 have been reformatted and re-issued as the University of Utah Supplement to the DFCM Design Manual. Most of Chapter 1 is included in the “Design Process” supplement while other chapters have become supplemental text in the “Design Requirements” volume.</td>
</tr>
<tr>
<td>06 January 2012</td>
<td>2.11 / A. / (4)</td>
<td>Salt Lake City / County Building or Zoning Codes. This paragraph was revised to current requirements.</td>
</tr>
<tr>
<td>10 December 2009</td>
<td>- - -</td>
<td>General. Several revisions made to reflect current University procedures.</td>
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</tbody>
</table>
2.0 CODES / LAWS / RULES AND REGULATORY REQUIREMENTS

2.1 General

REVISED:
A. Building Official Submittal
   Comply with adopted State Codes and all other applicable Standards and Codes at the
time submitted to the State Building Official for DFCM managed projects or the
University Building Official for University managed projects, including but not limited to
Section 0 through Section 0:

ADDED:

2.11 Minimum Codes, Ordinances, Industry Standards, etc., for University Projects

A. Minimum Codes and Ordinances
   The design and construction of University projects must likewise comply with latest
adopted laws, rules, regulations, codes and ordinances of the state of Utah and its
jurisdictions. The A/E is responsible for compliance to these laws, rules, regulations,
codes and ordinances. The following and the requirements listed above represent the
minimum codes and ordinances for which projects must comply (conflicts must follow
the most stringent).

   (1) The following represent the minimum codes and ordinances for which projects
       must comply (conflicts must follow the most stringent).

       (a) Boiler and Pressure Vessel Regulations, State of Utah

       (b) Federal Manufactured Housing Construction and Safety Standards Act
           (HUD), as approved per the Utah Administrative Code R156-56

       (c) International Building Code (IBC), approved version per the Utah
           Administrative Code R710-4, and as amended by Utah Administrative
           Code R156-56

       (d) International Energy Conservation Code (IECC), approved version per
           the Utah Administrative Code R156-56

       (e) International Fire Code (IFC), approved version and amended per the
           Utah Administrative Code R710-4

       (f) International Fuel Gas Code (IFGC), approved version per the Utah
           Administrative Code R710-4
(g) International Mechanical Code (IMC), approved version per the Utah Administrative Code R710-4 and as amended by R156-56

(h) International Plumbing Code (IPC), approved version per the Utah Administrative Codes R710-4 and R156-56

(i) International Residential Code (IRC), approved version per the Utah Administrative Code R156-56

(j) Life Safety Code (LSC), as approved and amended in the Utah Administrative Code R710-4

(k) Model Energy Code

(l) National Electrical Code (NEC), approved version per the Utah Administrative Code R156-56

(m) National Fire Protection Code (NFPA), as approved and amended in Utah Administrative Code R710-4

(n) Pipeline Safety Regulations, Parts 191 & 192, Department of Transportation, Research and Special Programs Administration, Office of Pipeline Safety

(o) Planning & Design Criteria to Prevent Architectural Barriers for the Aged and Physically Handicapped

(p) Salt Lake City Ordinances (Where Applicable, i.e. Research Park and off-Campus Locations)

(q) Standard for Energy Efficiency in New State Buildings

(r) University of Utah Design Standards (DFCM Design Manual, University of Utah Supplement)

(s) Utah Occupational Safety and Health Rules & Regulations (UOSH)

(t) Utah State Building Board

(u) Utah State Fire Marshal Requirements

(v) Utah State Department of Health Requirements

(w) All applicable rules of the Utah Administrative Code

(2) The following are added to the lists above to represent industry standards for which projects must comply (conflicts must follow the most stringent).

(a) Air Conditioning and Refrigeration Institute (ARI)

(b) Air Diffusion Council (ADC)
(c) Air Movement and Control Association (AMCA)
(d) American Concrete Institute (ACI)
(e) American Concrete Research Institute (ACRI)
(f) American Gas Association (AGA)
(g) American Institute of Steel Construction (AISC)
(h) American National Standards Institute (ANSI)
(i) American Public Works Association (APWA)
(j) American Society of Heating, Refrigeration & Air Conditioning Engineers (ASHRAE)
(k) American Society of mechanical Engineers (ASME)
(l) American Society for Testing and Materials (ASTM)
(m) American Water Works Association (AWWA)
(n) Associated Air Balance Council (AABC)
(o) Cooling Tower Institute (CTI)
(p) ETL Testing Laboratories (ETL)
(q) Heat Exchange Institute (HEI)
(r) Hydraulic Institute (HI)
(s) Hydronics Institute (HI)
(t) Industrial Ventilation, A Manual of Recommended Practice (ACGIH)
(u) Institute of Electrical and Electronic Engineers (IEEE)
(v) International Society of Arboriculture (ISA)
(w) Irrigation Association
(x) Masonry Institute of America (MIA)
(y) Questar-Recommended Good Practices for Gas Piping and Appliance Installations
(z) National Electrical Manufacturers Association (NEMA)
(aa) Scientific Apparatus Makers Association (SAMA)

(bb) Sheet Metal and Air Conditioning Contractors’ National Association (SMACNA)

(cc) Thermal Insulation Manufacturers Association (TIMA)

(dd) Tubular Exchanger Manufacturers Association, Inc. (TEMA)

(ee) Underwriters Laboratories (UL)

(ff) United States of American Standards Association (USAS)

(3) Other codes, regulations, etc., not listed here may be required due to the nature of certain projects' funding, grant, or licensing requirements. The A/E has the responsibility for compliance with these code requirements.

(4) Construction projects on the University campus are not subject to Salt Lake City or County building or zoning codes. When designing construction in Research Park or other non-campus locations where property is leased for University use, the several requirements of local jurisdictions applicable to the construction site are the responsibility of the A/E.

(5) All University remodeling and new construction projects must comply with the Americans With Disabilities Act, Title II. More specifically, the design must adhere to the "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES (ADAAG), (Appendix A to 28 CCFR part 36), or the Uniform Federal Accessibility Standards (UFAS).