

# Summary of Modifications/Changes in this Update

This Summary of Changes is for information only.  
It is not a part of the referenced document, and should not be used for project documentation.

U.S. Department of Veterans Affairs ♦ Office of Construction & Facilities Management

## **DATE OF THIS VERSION (new)**

November 1, 2016

## **TITLE OF DOCUMENT (new title if applicable):**

NCA Facilities Design Guide, Section 5 Design Criteria

## **DATE OF VERSION BEING SUPERSEDED (old):**

March 1, 2010

## **DESCRIPTION OF DOCUMENT (previous title, number, other identifying data):**

NCA Facilities Design Guide, Section 5 Design Criteria

## **SUMMARY OF CHANGES IN THIS VERSION:**

Updated the following sections:

5.1 – Site Development Design Criteria

5.1.2 – 2.1, 2.2, & 2.3

Updated of list of sources to current organizations and documents

5.1.6 – 6.5 & 6.6B

Updated references for evaluation of topsoil

Added requirements for bulk sampling and testing subsoil conditions for engineering properties

5.1.9 – 9.4

updated contact information for Federal Aviation Administration

5.1.10 – 10.6

updated reference to ABA standards

5.1.12 – 12.7

5.2 – Sanitary Design Criteria

5.2.5 - 5.1 & 5.2

5.2.6 - 6.1, 6.2, 6.3, 6.7, & 6.8

replaced paragraph with requirements to comply with Energy Independence and Security Act (EISA) Section 438 requirements

modified to include compliance with NPDES effluent limitations

5.3 - Irrigation Design Criteria

Entire section

general grammatical and editorial corrections

5.4 - Architectural and Interior Design Criteria

5.4.1 - 1.8

Updated ASHRAE requirements, added biobased material

5.6 - HVAC Design Criteria

5.6.3 - 3.2 & 3.3

Updated references, NFPA requirements and added information on spark resistant construction of fans.

5.7 - Plumbing Design Criteria

5.7.1 - 1.14

Added sustainable design

5.7.6 - Entire Section

added water heater types

added solar water heater design criteria.

added sizing criteria for tankless water heaters.

added sizing criteria for storage water heaters.

added heater water supply temperature design criteria.

added master thermostatic mixing valve design criteria.

added tempering valve design criteria.

added hot water circulation design criteria.

added heat trap design criteria.

added thermal expansion design criteria.

added vacuum relief design criteria.

5.7.8 - Entire Section

add storm water system disposal design criteria.

added pump redundancy.

added storm drainage system design criteria.

5.7.14 - Entire Section

Revised floor drain types and related notes.