**6. ENGINEERING SYSTEMS REQUIREMENTS**

**A20 BASEMENT CONSTRUCTION**

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SYSTEMS REQUIREMENTS  
BASEMENT CONSTRUCTION TEMPLATE 02/18  
  
Instructions for using this template: There are template files for each UNIFORMAT Level 2 Group Elements. This template is for Group Element A20-BASEMENT CONSTRUCTION. Text such as this is hidden text that will not print when the hidden text box in "Print/Options" is un-checked.  
  
The Structural Team Member with input from the Geotechnical Team Member, must edit this template for the requirements of the project and wherever brackets [ ] appear. The Designer must use UFC 3-301-01 when determining project requirements.   
  
The SYSTEMS REQUIREMENTS are intended to define items that are required throughout the facility. . Room-specific requirements are defined in the Part 3 Chapter 5 ROOM REQUIREMENTS section. Coordinate with the lead programmer for ROOM REQUIREMENTS. Delete all elements that are not required for the project. If additional elements or sub-elements are required for the project that do not appear in the template, refer to the NIST UNIFORMAT II publication for additional building element numbers and descriptions. The Uniformat II Work Breakdown Structure can be found at** [**www.wbdg.org/ndbm/**](http://www.wbdg.org/ndbm/) **. Coordinate with the PERFORMANCE TECHNICAL SPECIFICATION SECTION A20 (Section A20) to ensure that performance requirements are provided for all of the Building Elements listed here and that paragraph numbering matches   
  
There may be rare occasions when prescriptive specifications may either be edited and included in Part 5 of the RFP or required in Section A20 to be edited by the Contractor's Designer of Record. In both cases, the Engineering Systems Requirements (ESR) must include references to these documents.  
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**SYSTEM DESCRIPTION**  
Provide the basement construction in accordance with Unified Facilities Criteria (UFC) 3-301-01, *Structural Engineering*.

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NOTE: ESR A10, *FOUNDATIONS*, provides specific load criteria and geotechnical engineering requirements and information. If ESR A10 is not included in this RFP, include the applicable provisions of ESR A10 into ESR A20.  
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**A2010 BASEMENT EXCAVATION**

**A2020 BASEMENT WALLS**

Basement walls include exterior walls below the ground floor level of the building, including walls that are below grade, elevator pits and other pits. Provide basement walls constructed of [cast-in-place concrete] [precast concrete] [or] [masonry]. Provide waterproofing [and insulation] of basement walls and floor. [Provide perimeter drainage for basement walls.] [Provide for removal of water under basement floor slab.]

--End of Section--