**6. ENGINEERING SYSTEMS REQUIREMENTS**

**C10 INTERIOR CONSTRUCTION**

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SYSTEMS REQUIREMENTS  
INTERIOR CONSTRUCTION TEMPLATE 09/22  
  
Instructions for using this template: There are template files for each UNIFORMAT Level 2 Group Elements. This template is for Group Element C10-INTERIOR CONSTRUCTION. Text such as this is hidden text that will not print when the hidden text box in "Print/Options" is unchecked.  
  
The Architectural Team Member must edit this template for the requirements of the project. The SYSTEMS REQUIREMENTS are intended to define items that are required throughout the facility or on a system wide basis that is common to several rooms. Room-specific requirements are defined in the Part 3 Chapter 5 ROOM REQUIREMENTS section. Coordinate with the lead programmer for ROOM REQUIREMENTS. Editing is required where brackets [ ] appear. Delete all building 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 C10 to ensure that performance requirements are provided for all of the Building Elements listed here and that paragraph numbering matches.  
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NOTE: Consider each interior construction component relative to Part 2 UFGS Section 01 33 29, *Sustainability Requirements and Reporting* and UFC 1-200-02, *High Performance and Sustainable Building Requirements*.  
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**SYSTEM DESCRIPTION**  
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NOTE: Edit the following paragraph based on the project specific information received from the User.  
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Interior construction includes interior partitions, interior doors, and fittings.

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NOTE: This is a general paragraph, provide detailed information under Chapter 2, "Project Objectives" or Chapter 5, "Room Requirements."  
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Provide durable construction appropriate for the building function. Acoustic properties of materials, as well as durability, must be considered during material selection.

**GENERAL SYSTEM REQUIREMENTS**  
Areas of the Project subject to abuse require that "impact resistant" systems be provided. See "Room Requirements" for specific requirements on "Partitions", "Interior Doors", and "Fittings".

**C1010 PARTITIONS**

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NOTE: Consider one of the following sentences, or create your own, to describe the interior partitions of the facility. The first two sentences would be applicable to a barracks, or industrial facility, where extreme durability is required. \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

[Refer to Part 3 Section 5.0, Room Requirements for partition requirements for individual rooms. Where rooms with different partition requirements adjoin one another, provide a combined wall type that meets the security and durability as well as finish requirements of both spaces.]

[All interior partitions must be concrete masonry.]

[All interior partitions must be cast-in-place concrete.]

[All interior partitions must be constructed of metal studs with gypsum board on each side.]

[All interior partitions must be either concrete masonry or metal studs with gypsum board each side.]

[Concrete mixture must provide an average compressive strength of [3000 PSI (20,680 kPa)] [\_\_\_\_\_] and meet or exceed American Concrete Institute (ACI) 301/301M.]

**C101001 FIXED PARTITIONS**

Provide fixed interior partitions that extend from finish floor to underside of structure above, except where floor-to-ceiling demountable or retractable partitions are specifically required by the "Room Requirements." Sound-rated partition assemblies must have a minimum Sound Transmission Coefficient (STC) of [36] [42] [\_\_] in accordance with American Society for Testing and Materials (ASTM) E 90 or ASTM E 413 for frequency data.

[Glass masonry units must transmit [75] [\_\_\_] percent light.]

**C101003 RETRACTABLE PARTITIONS**

[Provide retractable partitions to include [operable panel partitions] [and] [accordion folding partitions]. Sound-rated partition assemblies must have a minimum Sound Transmission Coefficient (STC) of [36] [42] [\_\_] in accordance with ASTM E 90 or ASTM E 413 for frequency data.] Coordinate finishes with Section C30 Interior Finishes.

**C101004 INTERIOR GUARDRAILS AND SCREENS**

Provide balustrades where required by code. Provide screens where required to prohibit view of a particular area.

**C101005 INTERIOR WINDOWS**

Provide interior windows of [aluminum] [wood] [plastic] [hollow metal] [bullet resistant metal], [fixed][or][operable]. Provide each window as a complete factory-assembled unit with glass factory or field installed.

[Bullet-resistant windows must meet UL Classification [Rating Level [\_\_].]

**C101006 GLAZED PARTITIONS & STOREFRONTS**

[Provide glazed storefront system.]

**C101007 INTERIOR GLAZING**

Provide clear glass, [wire glass,] [patterned glass,] [laminated glass,] [bullet resistant glass,] [tempered glass,][ and ] [plastic glazing] interior glazing.

**C1020 INTERIOR DOORS**

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NOTE: Consider one of the following sentences, or create your own, to describe the interior doors of the facility. The first sentence applies to industrial facilities, where extreme durability is required. The second sentence applies to most other facilities. The third sentence applies to housing. Use the fourth sentence if the "Room Requirements" are very detailed as to the door requirements.  
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**C102001 STANDARD INTERIOR DOORS**

[Refer to Part 3 Section 5.0, Room Requirements for door requirements for individual rooms. Where rooms with different door requirements are connected by a door, provide a door type that meets the security and durability as well as finish requirements of both spaces.]

[All interior doors must be [flush][stile and rail paneled][to match the appearance of the existing doors \_\_\_\_\_\_\_.]

[All interior doors and frames must be hollow metal.]

[All interior doors must be wood[, except where hollow metal doors are required to meet fire rating]. All interior door frames must be hollow metal.]

[All interior doors must be wood or hollow metal in hollow metal frames.]

[Stile and rail wood doors must be Window and Door Manufacturers Association (WDMA) I.S.6A-01, [premium] custom grade, [extra] heavy duty.]

[Flush wood doors must be WDMA I.S.1A-04, [premium] custom grade, [extra] heavy duty.] [Flush wood doors must be WDMA I.S.-97 [PC-5 5-ply particleboard core][SCLC-5 5-ply structural composite lumber core].

[Building standard doors must comply with WDMA I.S.1A Premium Grade. Doors adjacent to paneling or millwork must comply with corresponding Architectural Woodwork Institute (AWI) millwork grade.]

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NOTE: Wood veneers must be hard- or softwood veneers cut for the best presentation for natural finishing of doors. Only use random match with opaque painted doors.  
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[Veneer for flush doors must be [species] in [veneer match].]

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NOTE: Wood Door Factory Finish: High quality - Conversion varnish alkyd urea; highest quality - catalyzed polyurethane, or acrylated uv curable epoxy. Field finish must be as shown in PTS C30.  
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Doors must have [Factory Finish of AWI Quality Standards Section 1500, specification for [Conversion varnish alkyd urea] [catalyzed polyurethane] [or] [acrylated uv curable epoxy] [field finish].

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NOTE: Fill in the necessary door assembly STC rating below. Indicate on the RFP Part 5, Room Requirements where the following sound control doors are located.  
  
Choose the bracketed paragraph below for doors that need sound control but do not need to be sound rated.  
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[Provide [\_\_\_\_] STC sound rated door and standard hollow metal door frame with continuous sound/ weather seals around the door to create a sound control door. Provide sound/ weather seals at the top and both sides that are integral with the door frame and drop down door bottom sound/ weather seals must rest on a metal threshold. After installation, test the doors with a flashlight to determine if any gaps in the sound seals allow light to be viewed on the opposite side of the door.]

**C102002 GLAZED INTERIOR DOORS**

Provide vision glazing in doors where it is required by the “Room Requirements” portion of this RFP, or it is deemed advantageous to be able to see through the door, either for safety of pedestrian traffic, or other functional reason.

**C102003 FIRE DOORS**

[Provide interior fire doors.]

**C102004 SLIDING AND FOLDING DOORS**

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NOTE: Confirm the acceptable type of closet door with the activity.  
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[Provide paneled louvered doors of [premium] [custom] grade, conforming to WDMA I.S.6A-01, [premium] [custom] grade, heavy duty.]

[Provide [sliding] [bi-folding] closet doors].

**C102005 INTERIOR OVERHEAD DOORS**

[Provide interior overhead doors.]

**C102006 INTERIOR GATES**

[Provide interior gates.]

**C102007 INTERIOR DOOR HARDWARE**

[Provide special door hardware, such as [combination locks] [card key system] at [\_\_\_\_\_\_\_\_\_].

[Provide card key type access units for specialized entries. Provide lithium battery powered, magnetic stripe keycard locksets that are [American National Standards Institute/Builders Hardware Manufacturers Association (ANSI/BHMA) A156.13, Series 1000, Grade 1, mortise] [American National Standards Institute/Builders Hardware Manufacturers Association (ANSI/BHMA) A156.2, Series 4000, Grade 1, cylindrical locks, tamper resistant, Underwriters Laboratories (UL) listed with 1 inch (25 mm) throw deadbolt, 3/4-inch (19 mm ) throw latch bolt, auxiliary dead-locking latch, and 2-3/4 inch (68.75 mm) backset.]]

[Existing locks were manufactured by [\_\_\_\_\_] and [do not] have interchangeable cores.] [Provide lock cores compatible with the BEST system.]

Provide [chrome-plated brass or bronze, or stainless steel] [brass or bronze] door hardware finish.

**C102090 OTHER INTERIOR SPECIALTY DOORS**

[Provide [\_\_\_] interior specialty doors.]

**C102091 OTHER INTERIOR PERSONNEL DOORS**

[Provide [\_\_\_] interior personnel doors.]

**C1030 SPECIALTIES**

**C103001 COMPARTMENTS, CUBICLES, & TOILET PARTITIONS**

Provide [stainless steel] [plastic laminate] [solid plastic] [phenolic core] [or metal with enamel finish] toilet partitions in all toilet rooms with more than one water closet or urinal.

**C103002 TOILET AND BATH ACCESSORIES**

[Provide toilet and bath accessories.]

**C103003 MARKER BOARDS AND TACK BOARDS**

Provide marker boards and tack boards as indicated in Part 3, Chapter 5 "Room Requirements" portion of this RFP. Marker boards and tack boards are funded as part of the construction contract.

**C103004 IDENTIFYING DEVICES**

Incorporate all necessary interior signage as part of the architectural drawings. Interior signage is not collateral equipment. Interior signage shall demonstrate complete coordination with the facility design, Structural Interior Design (SID) and FF&E submittals. Provide interior directional signage as required for facility wayfinding. Provide an identifying device at each interior door. Also provide signage to identify serving stations. Signs must meet Architectural Barriers Act (ABA) Standards requirements. Refer to Unified Facilities Criteria (UFC) 3-120-01, *Design: Sign Standards*, for more information.

**C103005 LOCKERS**

Provide [wire] [metal construction and enamel finish] [high density polyethylene/solid plastic] [or plastic laminate] lockers [with special bases of [\_\_\_\_]. Lockers are funded as part of the construction contract.

**C103006 SHELVING**

[Provide [steel utility] [plastic laminate clad] shelving.] Built-in fixed shelving is funded as part of the construction contract.

**C103007 FIRE EXTINGUISHER CABINETS**

[Provide fire extinguisher cabinets. Cabinet must be semi-recessed in new construction and surface-mounted in new mechanical/electrical spaces and existing wall construction. Coordinate cabinets with interior finishes.]

**C103008 COUNTERS**

Provide [solid acrylic] [plastic laminate] [wood] [stone] [stainless steel] [or tile] counter tops and back splashes.

**C103009 CABINETS**

Provide cabinetry and millwork items with associated accessories. Cabinetry must be Architectural Woodwork Institute (AWI) [premium] [custom] grade and have concealed hinges with adjustable standards for shelves. All exposed surfaces must be [covered with high pressure plastic laminate clad] or [hardwood veneer with exposed edges of solid hardwood].

Provide specific cabinetry and storage as noted in Part 3, Chapter 5 Room Requirements.

**C103011 CLOSETS**

Provide [premanufactured millwork closets] [prefabricated coat closets] (for schools and dormitories).

**C103012 FIRESTOPPING PENETRATIONS**

Provide firestopping for all through-penetrations, membrane penetrations, and joints in all fire resistance rated barriers. Provide firestopped perimeter joints at intersection of the horizontal fire resistance rated floor assembly and exterior wall assemblies

**C103013 SPRAYED FIRE-RESISTIVE MATERIALS**

[Provide medium-density or high-density cementitious sprayed fire-resistive materials, or intumescent thin-film coating, to the building's structural framing components as required by Building Code to prevent structural failure.]

**C103014 ENTRANCE FLOOR GRILLES AND MATS**

Provide [recessed] [surface] [roll up] [loose lay] floor mats at main building entrances. Provide [recessed] [surface] [roll up] [loose lay] floor mats at [all] [other] building entrances.

Provide entrance mats with [carpet] [rubber] [vinyl] [recycled tire] surface treads.

**C103015 ORNAMENTAL METAL WORK**

[Provide ornamental [metalwork][stair handrails.]

**C103090 OTHER INTERIOR SPECIALTIES**

Provide [wall or ceiling mounted] [above ceiling mounted] motorized projection screen.

[Provide pull down or manual projection screens.]

Provide fixed ceiling mount for computer projector. Coordinate location with Audio/Visual equipment package.

--End of Section--