**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*.  
\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

**SYSTEM DESCRIPTION**  
**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*   
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.  
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[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 either concrete masonry or metal studs with gypsum board each side.]

**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.]

**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**

Interior glazing must be clear glass, mirror glass (wall glass), [wire glass,] [patterned glass,] [laminated glass,] [bullet resistant glass,] [tempered glass,] [plastic glazing.]

**C1020 INTERIOR DOORS**

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*   
NOTE: Consider one of the following sentences, or create your own, to describe the interior doors of the facility. The first sentence applies additions to existing facilities or renovations to facilities. The second sentence applies where extreme durability is required. Use the third 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 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.  
\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

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 rated and sound control doors are located.  
  
Choose the first bracketed paragraph below for doors that require a sound rated door assemblies such as an opening through the perimeter of a Secured Area or SCIF. Choose the second 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 assemblies for doors leading into [Room(s) \_\_\_\_] [Secured Area(s)] [listed rooms in the RFP Part 5, Room Requirements]. Provide a factory tested, insulated, engineered, metal door assembly including door frame, hardware, and seals necessary to achieve the required rating. Install in accordance with manufacturer's instructions.]

[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].

**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 solid composite toilet partitions in all toilet rooms with more than one water closet or urinal. Coordinate partitions with toilet accessories as indicated in Part 3, Chapter 5, "Room Requirements" portion of this RFP. Provide solid composite shower partitions.

**C103002 TOILET AND BATH ACCESSORIES**

Provide toilet and bath accessories, including framed mirrors, as indicated in Part 3, Chapter 5, "Room Requirements" portion of this RFP.

**C103003 MARKER BOARDS AND TACK BOARDS**

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NOTE: If a Lobby is in the project scope, RFP writer to coordinate type option of recessed display case provided here or a movable/freestanding display case option in E202090 Other Movable Furnishings. Also coordinate option of a glass-enclosed bulletin board with Part 3, Chapter 5 "Room Requirements".  
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Provide marker boards[,] [and] tack boards/bulletin boards [and recessed display cases] as indicated in Part 3, Chapter 5, "Room Requirements" portion of this RFP. [A glass-enclosed bulletin board shall be provided in the Lobby.]Marker boards and tack boards are funded as part of the construction contract.

**C103004 IDENTIFYING DEVICES**

Provide interior room identification signs on each entrance to each interior room. Provide signage to identify each space by room number and name. Signage for general office areas must have changeable room name sections to accommodate personnel and functional changes.

Incorporate all necessary interior signage as part of the architectural drawings. Interior signage is not collateral equipment. Interior signage must 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. Signs must meet Architectural Barriers Act (ABA) Standards requirements. Refer to Unified Facilities (UFC) 3-120-01, Design: Sign Standards, for more information.

**C103005 LOCKERS**

Refer to Part 3, Chapter 5 "Room Requirements" for locker types and use for individual spaces. Lockers types shall be wire-mesh and also solid composite plastic. Provide specific locker shelving types and clothes hooks as indicated in the "Room Requirements" portion of this RFP. [Provide lockers [with special bases of [\_\_\_\_].] Lockers are funded as part of the construction contract.

**C103006 SHELVING**

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  
NOTE: Review shelving options selection in Part 3, Chapter 5 "Room Requirements. Select shelving construction in coordination with room requirements. If multiple shelving construction types are desired, clarify by indicating shelving construction type by location.  
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Provide [steel utility] [plastic laminate clad] shelving for use described as indicated in Part 3, Chapter 5 "Room Requirements" portion of this RFP. Built-in fixed shelving is funded as part of the construction contract.

**C103007 FIRE EXTINGUISHER CABINETS**

Provide [recessed] [recessed & semi-recessed with recessed preferred] [semi-recessed] [surface mounted] fire extinguisher cabinets in locations as required by D40 Fire Protection and NFPA 101. Coordinate cabinets with interior finishes.

**C103008 COUNTERS**

Provide [solid surface] counter tops and back splashes as indicated in Part 3, Chapter 5 "Room Requirements" portion of this RFP.

**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.

**C103010 CASEWORK**

Provide all built-in premanufactured cabinetry for functions and locations specified in Part 3, Chapter 5 "Room Requirements". Casework material must be [stain-grade wood] [stain-grade hardwood veneer, plywood core] [stain-grade hardwood veneer, MDF core]. Casework must comply with Part 4 C103009 Cabinetry requirements.

Provide specific casework as noted in Part 3, Chapter 5 Room Requirements.

**C103011 CLOSETS**

Provide [premanufactured millwork closets] [prefabricated coat closets].

**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.]

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NOTE: Retain the following section if recessed floor grilles and mats are desired for the project. Type of entrance mats to be carefully coordinated with E202090 and Part 3, Chapter 5 Room Requirements. Recessed entrance floor grilles and mats are provided in this section. Surface walk-off mats are in E202090 Other Movable Furnishings. Optional locations are also listed and to be identified.  
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**[C103014 ENTRANCE FLOOR GRILLES AND MATS**

Provide recessed pan entrance mats at the following locations:

• [Primary Building Entrance]

• [Secondary Entrances]

• [Patio Access]

• [\_\_\_\_\_\_\_\_]]

**C103090 OTHER INTERIOR SPECIALTIES**

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*   
NOTE: RFP writer to confirm the following projection screen mounting options with the activity user and in coordination with the Part 3, Chapter 5 "Room Requirements".  
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Provide [wall or ceiling mounted] [above ceiling mounted] motorized projection screen.

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NOTE: In selection from the options in the following statement, the RFP writer must coordinate the projector mounting requirements with the Activity user. Projectors are provided by the Activity user.  
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Provide [above ceiling mounts for projector] [ceiling mounts for projector] as approved by Activity user.

[Provide pull down or manual projection screens.]

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

Provide [wall or ceiling mounted][wall mounted][ceiling mounted] television brackets where noted in Part 3, Chapter 5 Room Requirements.

Provide fixed benches integral to or supported by wall. Choice of bench material/color to be design coordinated with adjacent materials and colors. Refer to Part 3, Chapter 5 "Room Requirements" for material requirements.

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NOTE: RFP writer to coordinate type option of recessed display case provided here with a movable/freestanding display case option in E202090 Other Movable Furnishings. If the Lobby option is in the project scope coordinate display case type with Part 3, Chapter 5 "Room Requirements".  
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[Coordinate recessed display cases with the interior construction.]

--End of Section--