

INTERIOR DESIGN
PRESENTATION
FORMAT



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INTRODUCTION

This manual covers interior design services for the Air Force. It explains the two types of design services available, Structural Interior Design and Comprehensive Interior Design, and gives detailed guidelines on presentation requirements for each type. Chapter 1 is an overview of interior design for the military. Chapter 2 explains the required presentation format for interior design projects and discusses standards for health, safety, accessibility, and environmental quality. Chapter 3 gives specific information on assembling a Structural Interior Design submittal. It includes a submittal matrix listing each submittal element, and which elements are required at each submittal phase. Chapter 4 provides specific information on assembling a Comprehensive Interior Design submittal. It includes the submittal matrix, detailed information on requirements unique to Comprehensive Interior Design, information on furnishings sources, and cost guidelines. The manual concludes with a Glossary of Government Contract Terms, an Index of Referenced Standards containing useful information about terms and concepts discussed in the manual, and several Appendixes containing sample forms and documents.

DESIGN

OVERVIEW OF MILITARY INTERIOR

The Air Force has two categories for interior design: *Structural Interior Design* (SID) and *Comprehensive Interior Design* (CID). The two types of services cover different aspects of the interior environment and are funded through different sources. Structural Interior Design is the design of building related interior finishes such as walls, ceilings, floor coverings, built-in casework, etc., and may also include furniture systems. With the exception of furniture systems, which are funded with operations & maintenance (O&M) or non-appropriated funding (NAF), Structural Interior Design is funded with military construction funds appropriated by Congress, (known as MCA, MCP, or MILCON funding), or with NAF.

Comprehensive Interior Design is the design of interior furnishings and the finishes related to them. CID projects are typically funded by the installation with operation and maintenance funds or with non appropriated funds provided by the major command. This type of funding is called O&M, OMA, RPM, or NAF funding.

The Scope of Work for a project states the requirement for a SID and CID component. The Scope of Work is found in Appendix A to the A-E Contract or on the DD Form 1391.

Structural Interior Design

Typical SID projects are maintenance facilities that have limited furniture needs but require highly durable, low maintenance interior finishes. Completion of a SID involves the selection and sampling of all applied finishes for the building's interior features, and may include drawings and specifications for furniture systems. The SID package will include interior floor plans, finish schedules, and interior color samples. If necessary, it should include interior elevations showing finish placement and all information for furniture systems. The products and materials specified are purchased and installed by the General Contractor.

Comprehensive Interior Design

CID services should be provided for all people oriented as opposed to object oriented facilities. Completion of a CID involves the selection and sampling of the furnishings components of the interior environment in addition to the structural interior design. This may include furniture systems, freestanding furniture, artwork, and accessories. The CID package will include furniture placement plans, information on all freestanding furnishings and accessories, furniture cost estimates, and order data sheets. The products and materials listed are purchased by the Government.

Furniture System/ Prewired Workstations/ Systems Furniture

Furniture systems are part of a SID project if they are specifically identified on the DD Form 1391. If so identified, they are O&M funded and are an integral part of the construction project in the same manner as built-in casework and finish materials. Furniture systems are listed on the DD Form 1391 as a non-add entry in Block 9 for Equipment Provided from Other Appropriations. In Block 12b, list the equipment as an O&M funded item, the fiscal year the funds are requested, and the line item cost. The entry must be verified at the command level by those responsible for budgeting O&M appropriations. *Prewired workstations* is an obsolete term which was formerly used when furniture

systems were MILCON funded. The term furniture systems is used in lieu of *systems furniture* to denote the many types of systems available today.

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SID/CID REQUIREMENTS & INFORMATION

This chapter provides general and technical information that applies to both SID and CID packages. It covers the required presentation format and gives specific information about each type of drawing required for each type of package.

Cutting and Fitting

The interior designer should identify items in the SID or CID that require attachment to the building by cutting or fitting and should prepare construction drawings and specifications to cover these operations. These items must be properly coordinated with other work on the project.

Trade Names & Non proprietary Disclaimers

When indicating manufacturers' product styles and colors for a project, use a Color Guide Specification (Appendix D). This guide includes the brand names for color selections of the exterior and interior materials, products which will be exposed to view in the finished construction, and products which are sampled in the SID and CID binders. Specific locations where materials are to be installed will be shown in the drawings via a standard material, finish, and color schedule. Key the color codes used in the drawings with the products indicated in the Color Guide Specification. The Color Guide Specification should include a non proprietary disclaimer that reads: "Trade names indicated are non-proprietary and are intended only to indicate color, texture, & pattern."

Federal Standard Colors

Federal Standard Colors are not required on interior design projects, but may be used if desired.

PRESENTATION FORMAT

SID and CID information and samples are to be submitted in 210 x 280 mm (8 1/2" x 11") format in separate three inch ring binders with pockets on the inside of the covers. When there are numerous pages with thick samples, more than one binder should be used. Large D-ring binders are preferred to O-ring binders. Fold out items should have a maximum spread of 640 mm (25 1/2").

Each binder should be labeled on the outside spine and front cover with the following information:

- Phase %
- SID or CID
- Project Title and Number
- Location
- A-E firm
- Volume Number
(example: Vol. 1 of 3)
- Date

Each sheet within the binder should be labeled with the project title, location, A-E firm name, and sheet number.

Color Boards

SID finish samples should be grouped into color schemes organized by Color Placement Zones. A Color Placement Zone is all spaces or areas within a building that have like

finishes. For example, all toilet rooms might have the same color scheme and would then comprise one Color Placement Zone. The general office areas might have another color scheme and would then comprise another Color Placement Zone.

If a finish is used in more than one zone, it must be displayed in each one. Large samples, such as ceiling tiles or carpet samples can be provided separately from the color board in a loose sleeve that can be moved from one scheme to another.

Label all finish samples with the material codes used in the Contract Documents.

Color boards should be sturdy enough to support all samples. Use page protectors that are strong enough to keep pages from tearing out. Anchor large or heavy samples with mechanical fasteners, Velcro, or double faced foam tape rather than rubber cement or glue. Samples which are difficult to fasten should be labeled with the finish code so they can be identified independently.

Material and finish samples should indicate true pattern, color and texture. Photographs or colored photocopies of materials or fabrics will be disapproved. Carpet samples should be large enough to show a complete pattern or design. If the specified carpet has a large pattern, provide a color photograph showing the overall pattern in addition to the carpet sample. Color photocopies of artwork and plants are acceptable.

REVIEWS AND REVISIONS

All SID and CID packages will be reviewed by the Government during each phase of the project, and written annotated comments will be provided to the A-E. These review comments and the A-E's written responses should be placed in the front inside pocket of the first volume of the next SID or CID binder submittal.

The designer should revise the binders after each review to respond to review comments. Printed information on existing pages may be revised with white-out. If the binders are not returned to the A-E after review, the A-E may simply provide updated inserts to the Government. Note: Some MAJCOM's require that any changes made after submittals have been approved be resubmitted to the MAJCOM for re-approval.

INFORMATION ON REQUIRED DRAWINGS & DOCUMENTS

Renderings & Sketches

Renderings or black and white perspective sketches may be required in the Statement of Work or design task for some projects. Verify that renderings or sketches are a contract requirement. All renderings should be professional in appearance. The A-E shall submit a sample or a copy of a previous rendering indicating the proposed artistic style. The actual rendering should not be executed until the artistic style and selected view are approved. Black and white sketches should emphasize spatial relationships, furnishings, patterns, and texture. Illustrate one major area which may be used as a basis for a color rendering in the final package.

Composite Floor Plan

The Composite Floor Plan should show all panels, components and free-standing furniture in relationship to the building and the building systems. This includes information on locations of light switches, fire pull boxes, mechanical devices, and other wall mounted items. It should be a full size contract drawing showing furnishing item numbers (where applicable).

The gross and net square footage of each floor should be noted on the composite floor plans.

Workstation Panel Plan

The Panel Plan should include a panel symbol legend, panel placements, critical dimensions of aisle widths, and critical dimensions tying the panels to the building's structure and electrical/mechanical system. Panels must not block access to mechanical, electrical or fire controls. Each panel should be coded with the following system:

N (non-powered) or **P** (powered) **Width** (in centimeters) **Height** (in centimeters)

For example, a non-powered panel 610 mm (two feet wide) and 1727 mm (five feet eight inches high) would be noted on the plan as **N 61 172.7.**

Workstation Electrical, Voice, & Data Plans

The Electrical, Voice and Data Plans should show any panel placements, all receptacles used in each workstation, height and location of all light switches and mechanical control devices, and a symbol legend. The workstation designer must coordinate the Electrical, Voice and Data Plans with the building's communication and mechanical engineering drawings.

Furniture Systems

Furniture systems should be designed using generic components and work surfaces sold by many manufacturers. Use one manufacturer as a basis for design, and indicate that manufacturer's name and finishes on the contract drawings. This will provide sufficient information for competitive bid purposes

In the Color Guide Specifications on Furniture Systems, indicate the fabric width, fiber content, and construction method for the workstations. The vendor should be indicated on the drawings and in the Color Guide Specifications. Do not indicate a vendor in the Furniture Systems Specifications.

Workstation Types & Number Codes

The workstations should be classified into groups of like configuration and features, and each group or type should be given a single letter code (A, B, etc.). For example, all similar reception stations might be type A and all similar offices might be type B. Each workstation should also be given a unique number code similar to a room number but separate from the building room numbering system. Every workstation should be identified on every plan with the composite code composed of the letter identifying the type and the workstation number code. For example "A110" would indicate that workstation number 110 is a type A station.

Workstation Isometric/Elevation & Inventory Drawings

The Workstation Isometric/Elevation and Inventory drawings should show an elevation or isometric of each type of workstation with a related inventory list of all the panels and components used, and the method of attachment (i. e. wall hung, floor mounted, etc.). The inventory list should describe components generically rather than using specific part numbers.

Workstation Finishes

It is suggested that only two fabric finishes be used for furniture systems: one color for panels and one for tackboards and flipper doors. A third color may be used to unify workstations used by the same organizational group in order to aid in pathway finding in large open office areas (see page 8). It should be noted that some installations have color and finish restrictions. The A-E should comply with any local or MAJCOM standards.

Workstation Costs The average cost of a furniture system is \$4,500. The Air Force considers an ergonomically designed chair as part of the workstation and should be included in the workstation design and cost. The total available funding for furniture systems for a project is listed as a non-add entry on in block 9 of the DD Form 1391. In block 12b, list the equipment as an O&M funded item, the fiscal year the funds are requested, and the line item cost.

Workstation Components The following items are some of the typical workstation components and options that must be selected and specified.

- *Panels*
 - Acoustical/non acoustical
 - Powered/non powered
- *Components*
 - Work Surfaces
 - Drawers
 - Shelves (with doors/without doors)
 - Files (lateral, panel hung/bins)
 - Task lights/special purpose
 - Counter tops
 - Drafting surface
 - Freestanding components
- *Accessories*
 - Tackboards
 - Locks
- *Shelf dividers*
 - Reader stand
 - Paper flow devices
 - Marker/chalk boards
 - Computer turntable
 - Printer stand
 - Coat rack
 - Wire guides
 - Keyboard trays
 - Mouse pads
 - Wrist rest/Foot rest
 - Disc storage
- *Signs*
 - Organization signs
 - Workstation name signs

HEALTH, SAFETY, ACCESSIBILITY, AND ENVIRONMENTAL QUALITY

Some of the issues designers must consider in creating a quality working environment are safety, health, disabled access, and environmental standards. Many of these concerns are regulated by code authorities and quantified by standardized testing. Designers should be aware of the pertinent regulations and should cite them in the contract documents. Reference standards are listed and indexed in the *Index of Reference Standards* on page 21. An asterisk by a topic indicates that there is a reference in the Index.

Health & Safety Criteria

Fire safety is one of the paramount concerns in any design. Designers must comply with all appropriate fire safety codes and provide for safe egress in the event of fire. Code requirements on this issue are stringent and several different codes exist. See **egress*

There are several regulations relating to flammability of interior materials and furnishings. See **fire, flame spread*.

Designers should provide protection against injury and death from falls, chemical emissions, electronic emissions, and microbial conditions. See **falls*. No reference standards exist for chemical emissions, electronic emissions, or microbial conditions. OSHA has a proposed

regulation in relation to indoor air quality standards. Comments to this regulation are currently being reviewed at OSHA. See **indoor air quality*.

Accessibility

All designs, including signage, must comply with the Americans with Disabilities Act (ADA) or the Uniform Federal Accessibility Standards (UFAS), whichever is the most stringent. The only exceptions to this requirement are facilities which limit their access to able bodied military personnel in accordance with the exclusion in Paragraph 4.1.4. of the UFAS. See **accessibility*.

Environmental Quality

Designers must be concerned with providing an environment that is comfortable, welcoming, and conducive to work. Contributing factors include ergonomically correct furniture, appropriate efficient lighting, and good acoustical control.

Furnishings and equipment provided for SID/CID should be comfortable, sturdy, and designed for anthropomorphic fit and stability. See **furnishings*.

Lighting is an important tool in shaping the ambiance of the environment. Careful consideration should be given to lighting in order to produce a comfortable environment that is easy to live and work in. Reflectance should be minimized and task lighting should provide glare free illumination of work surfaces. See **lighting*.

Provide adequate acoustical control to ensure a good working environment. See **acoustics*.

Pathway Finding

Interior design for military facilities should incorporate the concept of pathway finding. The space plan, the use of color and pattern, and the interior sign package should coalesce to form a well organized, comprehensible interior environment that guides users and visitors through the building to their destination.

3

SPECIFIC INFORMATION FOR SID SUBMITTALS

This section gives information on assembling an SID package. The Submittal Matrix gives the sequence of assembly and tells what information must be included in each submittal if that work is a part of the design contract. Not all projects will have a formal 65% design review stage. If that is the case, those items may move to the 90% submittal. Note that Interior Design Submittals **must** run concurrent with Architectural Submittals.

*Submittal Matrix
Summary for SID
Packages*

| Item | Description | PD* | 65%* * | 90% | RTA |
|------|---|-----|-----------|-----|-----|
| 1 | Title Page | X | X | X | X |
| 2 | Table of Contents | X | X | X | X |
| 3 | Narrative of Interior Design Objectives | X | X | X | X |
| 4 | Interior Color Zone Key Plan (1/8"= 1' - 0" scale or 8 1/2" x 11" size) | X | X | X | X |
| 5 | Interior Color Boards (relating to color placement plan) | X | X | X | X |
| 6 | Interior Signage Color Boards | | X | X | X |
| 7 | Furniture System Color Boards | | X | X | X |
| 8 | Interior Floor Plan (1/4"= 1' - 0" for full size drawings. Use metric scale when required.) | X | X | X | X |
| 9 | Room Finish Schedule / Color Key | X | X | X | X |
| 10 | Signage Plan | | | X | X |
| 11 | Furniture System Composite Floor Plans | X | X | X | X |
| 12 | Furniture System Cost Estimate | | X | X | X |
| 13 | Furniture System Panel Plans | | X | X | X |
| 14 | Furniture System Electrical/Voice/Data Plans | | X | X | X |
| 15 | Furniture System Elevation/Isometric and Inventory Drawings | | | X | X |
| 16 | Enlarged Perspective (optional) of Furniture System Configurations | X | X | X | X |
| 17 | Diskette of all Drawings/Plans/Schedules | | | | X |

*PD: Project Definition

**65%: When required.

Separate sign drawings should be prepared which indicate plaque size, type, location, and message for all signs. Submit a sample of the sign color in the SID.

Typical SID Items

Some of the items which are usually included in an SID are listed below:

- Carpet
- Resilient Floor Coverings
- Ceramic Tiles and Stones
- Terrazzo
- Paint
- Wallcoverings
- Wood Stains
- Wall Base
- Ceiling Tiles and Grid
- Plastic Laminates
- Built-in Casework
- Auditorium Seating (Fixed)
- Blinds and other Window Coverings
- Marker Boards/Bulletin Boards
- Furniture Systems
- Toilet Partitions
- Moveable Room Dividers
- Cubicle Curtains
- Signage
- Stage Curtains
- Trim and Hardware Finishes
- Decorative Light Fixtures.

Also see Chapter 2, SID/CID Requirements and Information.

4

SPECIFIC INFORMATION FOR CID SUBMITTALS

This section gives information on assembling a CID package. The Submittal Matrix gives the sequence of assembly and tells what information must be included in each submittal if that work is a part of the design contract. Not all projects will have a formal 65% design review stage. If that is the case, those items may move to the 90% submittal. Note that Interior Design Submittals **must** run concurrent with Architectural Submittals. CID Services normally **include** SID services.

If the client is purchasing and installing the systems furniture, all systems furniture should be shown in the contract drawings with the note "FOR INFORMATION ONLY".

*Submittal Matrix
Summary for CID
Packages*

| Item | Description | PD* | 65% ** | 90% | RTA |
|------|--|-----|-----------|-----|-----|
| 1 | Title Page | X | X | X | X |
| 2 | Table of Contents | X | X | X | X |
| 3 | Narrative of Interior Design Objectives | X | X | X | X |
| 4 | Photo of Proposed Rendering Technique | X | | | |
| 4A | Photo of Completed Interior Color Rendering(s) (only if required by contract) | | | X | X |
| 5 | Black and White Sketch Perspective(s) (only if required by contract) One will be approved for the interior rendering. | | X | X | X |
| 6 | Generic Composite Floor Plans with Conventional and Furniture System on full size sheet. (Use metric scale when required.) | X | X | X | X |
| 7 | Furniture System Panel Plans (Only if client is buying and installing furniture system.) | | X | X | X |
| 8 | Furniture System Electrical/Voice/Data Plans (Only if client is buying and installing furniture system.) | | X | X | X |
| 9 | Furniture System Elevation/Isometric and Inventory Drawings (Only if client is buying and installing furniture system.) | | X | X | X |
| 10 | Manufacturer's Summary Lists | | | X | X |
| 11 | Conventional Furniture Placement Plans (Use metric scales as req.) All areas (include item #'s) | | X | X | X |
| 12 | Conventional Furniture Illustration Sheet (sample form only) | X | | | |
| 12A | Conventional Furniture Illustration Sheets with number codes (all areas) | | X | X | X |
| 13 | Artwork Illustration Sheets /Artwork Placement Plans | | X | X | X |
| 14 | Itemized Furniture Cost Estimate | | X | X | X |

| | | | | | |
|-----|--|---|---|---|---|
| 15 | Order Data Sheets (sample form only) | X | | | |
| 15A | Order Data Sheets (all areas) | | X | X | X |
| 16 | Letter of Justification for Waiver (if required) | | X | X | X |
| 17 | Diskette of all Drawings/Plans/Schedules | | | | X |

*PD: Project Definition

**65%: When required.

Manufacturer's Summary List

The Manufacturer's Summary List is a list of all the manufacturers whose products are used in the CID package. For each manufacturer, provide the name, address, phone number, fax number and a point of contact.

Furniture Placement Plans

A Furniture Placement Plan is a plan of one room showing each furniture component in the room. There will be one Furniture Placement Plan for each room in the Composite Floor Plan that contains furniture. Furniture Placement Plans are drawn at 1:50 (1/4" = 1'- 0") if possible, or at 1:100 (1/8" = 1'- 0") if the room or area illustrated is very large. Each Furniture Placement Plan should include the following information:

- The job name, location, and date
- The footprint of the room
- The furnishings
- The room name and number
- A Furnishing Item Number for each furnishing item
- Quantity of each product specified for the CID

Furniture Illustration Sheets

Provide one Furniture Illustration Sheet for each item of furniture in the CID. The Furniture Illustration Sheet should include all of the following information.

- The job name, location, and date
- A picture or line drawing of the product specified
- The furnishing item number which keys the product to the Composite Floor Plan and the Furniture Placement Plan
- The options specified, if any
- Specification data on the finishes and fabric
- Samples of the finishes and fabric
- A comprehensive list giving all occurrences of the item, broken down by room. For example:
 4 each Room 104 Commander
 2 each Room 103 Receptionist

Furniture Illustration Sheets should be arranged in numerical order by furnishing item number. The furnishing item numbers should begin with 001. See Appendix A for an example Furniture Illustration Sheet.

Artwork Placement Plan

An Artwork Placement Plan shows the spatial relationship between the furniture and the artwork in a room. There will be one Artwork Placement Plan for each room in the Composite Floor Plan that contains artwork. Assign a furnishing item number to each piece of artwork. The Artwork Placement Plan will include the furnishing item number for the artwork and but will show the furniture without item numbers. Artwork Placement Plans are drawn at 1:50 (1/4" = 1'- 0") if possible, or at 1:100 (1/8" = 1'- 0") if the room or area

illustrated is very large. Each Artwork Placement Plan should include the following information:

- The job name, location, and date
- The room name and number
- A plan of the room locating the artwork
- An elevation of each wall containing artwork showing mounting height
- A Furnishing Item Number for each artwork item
- Quantity of each product specified for the CID

Artwork Illustration Sheets Provide one Artwork Illustration Sheet for each piece of art in the CID. The Artwork Illustration Sheet should include the following information:

- The job name, number, location, and date
- The title of the artwork and the artist's name.
- A picture of the proposed artwork. Color photos are acceptable
- The furnishing item number, which keys the artwork to the Composite Floor Plan and the Artwork Placement Plan
- Name and number of the room where artwork will be displayed
- Frame description and sample of mat colors
- Mounting height and installation instructions
- Specify security mounting if required

Itemized Furniture Cost Estimate The itemized furniture cost estimate lists all furnishings and indicates quantities, unit costs and totals. It is organized according to UNICOR and GSA/FSC Group, Part, and Section of the FSC Schedules. The cost estimate should also include a 10% general contingency and 7% installation listed as separate line items. Estimated freight charges that are not included in furniture cost should also be a separate line item.

Order Data Sheets The Order Data Sheets provide all information necessary to order the furnishings specified in the CID. Only one item should be listed per data sheet. The sheets should be in numerical order. The Order Data Sheet should include the following information:

- Furnishing item number.
- The job name, location, and date
- FSC Group, part, and section
- GSA Contract Number, Special Item Number (SIN), and contract expiration date
- Maximum Order Limitation
- Source and manufacturer's name (Include ordering address, telephone number & fax number)
- Product name
- Product model number or National Stock Number (NSN)
- Finish name and number
- Fabric name and number
- Dimensions
- Weight
- Description (Include construction information, fabric content, finish application, etc.)
- Justification (Example: "These guest chairs are coordinated to match the task seating at each workstation. The size of the guest chair is critical because of the limited space where they are to be placed. If this company is not selected,

coordinate the newly proposed finishes with furniture item numbers #001, 002, 003.”)

- Item location by room number
- Quantity per room
- Total quantity
- Unit price
- Total price
- Estimated freight charges, 7% of item cost (Note whether or not freight charges are included in the price of the CID item.)
- Special instructions (if any)

Note: Some MAJCOMs require that the A-E fill out the government purchase request in lieu of the Procurement Information Sheet. Verify which method is preferred. Items will be purchased using one of two different forms: DD Form 1348-6 or AF Form 9. A copy of each of these documents is provided in Appendix E.

GENERAL DESIGN/COST INFORMATION FOR CIDS

Furnishings Sources

Furniture may be obtained from three categories of sources: UNICOR, GSA Federal Supply Schedule, and open market. Every effort should be made to use UNICOR or GSA Stock/Federal Supply Schedule items for CID projects. There may be occasions when there is no current FSS/GSA or UNICOR resource for a furnishing requirement, or when items available on FSS/GSA contract or from UNICOR do not meet the functional requirements of the project. If the latter occurs, the Base Contracting Officer must submit a Request for Waiver to UNICOR. (See the following example.) The A-E shall assist in the waiver process by providing the information within the brackets of the sample letter below. GSA sources are not mandatory for DoD projects, but all procurement procedures must be followed as stated in the FAR. Open market line items over \$2,500 will require a justification letter. Open market line items over \$25,000 will have to be solicited by bid, and solicitation documents including detailed specifications will be required. Line items under GSA contract that exceed the Maximum Order Limitation (MOL) will also require a formal solicitation for bid.

Projects that are funded with non-appropriated funds (NAF) are exempt from the UNICOR mandatory resource, and a waiver is not required in order to use open market sources on these projects. The Air Force Non-Appropriated Fund Purchasing Office (AFNAFPO) has contracts with many furnishings vendors and are an additional resource for these types of projects. Their address is:

Air Force Services Agency / SVCKH
9504 IH 35 N, Suite 370
San Antonio, TX 78233
Phone: (210) 652-6931
Fax: (210) 652-6309

Request for UNICOR Waiver

Revised waiver procedures for UNICOR products will follow in a future addendum.

Typical CID Furnishings

The furnishings which are usually included in a CID are listed below.

- ADP tables/printer stands/support furnishings

- Artwork
- Audio-Visual support furnishings
- Beds, wall units, night stands, chests, mirrors, refrigerators
- Bedspreads, bedding, mattresses, box springs, bed frames or boxes
- Bookcases
- Bulletin boards, projection screens/marker boards (if NOT attached to structure)
- Carts
- Chairs - all seating types except those attached to structure
- Desks - unless included in furniture system
- Drafting tables
- Draperies
- Files
- Freestanding partitions
- Lamps
- Library furniture
- Lounge furniture - sofas, chairs, occasional tables
- Mobile furnishings - unless included in furniture system
- Modular desk units
- Podiums, lecture stands
- Silk plants
- Storage - all kinds
- Furniture system workstations (if not in SID)
- Planters, waste and ash receptacles
- Tables - all kinds
- Wardrobes (if not in the construction contract)

*CID Furnishings
Costs Guidelines*

Following are guidelines for material costs for CID. These numbers are to be used for preliminary budgeting purposes only. The information is given first as cost per total square foot, then as cost per unit. The numbers do not include associated costs such as contractor's overhead, profit, and shipping. They are based on the Air Force FY 95 Costs Guide, so an appropriate inflation factor should be included for subsequent years. On overseas projects costs may vary from country to country and with the current exchange rate.

*Cost per Square
Foot*

| FACILITY TYPE | COST/SQ METER | COST/SQ FOOT |
|---|--------------------------|-------------------------|
| Administrative Space (Conventional Standard) | 86.00 | 8.00 |
| Administrative Space (Conventional Executive) | 161.00 | 15.00 |
| Administrative Space (Systems Furniture) | 377.00 | 35.00 |
| Airmen Club (excluding kitchen equipment) | 140.00 | 13.00 |
| Alert Facilities | 140.00 | 13.00 |
| Auditorium (fixed seating) | 377.00 | 35.00 |
| Base Ops DV Lounge | 215.00 | 20.00 |
| Chapel | 280.00 | 26.00 |
| Child Development Center | 150.00 | 14.00 |
| Classroom | 150.00 | 14.00 |
| Clinic/Dental Clinic (not including equipment) | 172.00 | 16.00 |
| Conference Room (Standard) | 215.00 | 20.00 |
| Conference Room (Executive) | 581.00 | 54.00 |
| Dining Facility (excluding kitchen /serving line) | 377.00 - 484.00 | 35.00 - 45.00 |
| Distinguished Visitor's Suite (in Lodging) | 323.00 | 30.00 |
| Family Housing Office | 172.00 | 16.00 |
| Fire Station | 140.00 | 13.00 |
| Golf Clubhouse | 161.00 | 15.00 |
| Judge Advocate Facility (including Courtroom) | 269.00 | 25.00 |
| Library | 269.00 | 25.00 |
| Lodging Office | 161.00 | 15.00 |
| Open Mess (NCO or Officers) | 323.00 - 377.00 | 30.00 - 35.00 |
| Physical Fitness Center (not including equipment) | 129.00 | 12.00 |
| Recreation Center | 129.00 | 12.00 |
| Temporary Lodging Facility (TLF) | 172.00 | 16.00 |
| Training Center (miscellaneous types) | 151.00 | 14.00 |
| Unaccompanied Enlisted Personnel Housing (UEPH) | 194.00 | 18.00 |

| FACILITY TYPE (CONTINUED) | COST/SQ METER | COST/SQ FOOT |
|---|--------------------------|-------------------------|
| Unaccompanied Officer Personnel Housing (UOPH) | 215.00 | 20.00 |
| Visiting Airmen's Quarters (VAQ Single Occupancy) | 183.00 | 17.00 |
| Visiting Officers Quarters (VOQ) | 183.00 | 17.00 |
| Youth Center | 140.00 | 13.00 |

Cost per Unit

| FACILITY TYPE | COST/UNIT |
|---|---|
| Administration Space (furniture system per workstation: includes installation and one ergonomic chair) | 4,500.00 |
| Lodging Office/Lobby <ul style="list-style-type: none"> • without front desk • with front desk | 15,000.00 to 20,000.00 40,000.00 to 100,000.00 |
| Distinguished Visitor Suites <ul style="list-style-type: none"> • One bedroom suite • Two bedroom suite • 2 to 3 bedroom apartment (Including dining room) | 15,000.00 - 20,000.00 25,000.00 - 36,000.00 40,000.00 - 45,000.00 |
| Temporary Living Facility (TLF) | 17,500.00 |
| Unaccompanied Enlisted Personnel Housing (UEPH) (per person) | 5,000.00 |
| Unaccompanied Officers Personnel Housing (UOPH) <ul style="list-style-type: none"> • Bedroom only • Small apartment | 7,000.00 9,000.00 - 10,000.00 |
| Visiting Airmen Quarters (VAQ) | 5,000.00 per person |
| Visiting Officers Quarters (VOQ) <ul style="list-style-type: none"> • Single room • Single suite • Double suite | 8,000.00 10,000.00 15,000.00 |

GLOSSARY OF GOVERNMENT CONTRACT TERMS

A-E - *Architect-Engineer* - The architectural, engineering, or design firm selected to perform a government project.

BCE - *Base Civil Engineer*

CBD - *Commerce Business Daily* - This publication is the federal government's want ads. It provides advance notice of contracting actions and requests for A-E Services.

CID - *Comprehensive Interior Design* - The selection and sampling of all furnishings necessary to complete the interior environment; the submittal includes furniture illustrations, fabrics, finish samples, footprint plans, and furniture ordering information. These projects are funded with O & M, OMA, or NAF funds, and the materials are purchased by the installation and not the General Contractor. See also **SID**.

DD Form 1391 - *Department of Defense Form 1391* - A programming document initiated by the installation and submitted through the Major Command to Congress for funding. It includes an outline of basic needs for a proposed facility and an estimated cost to fulfill them.

Design Build - A method of contracting in which a single entity takes responsibility for both design and construction of a facility. Performance requirements are outlined using the RFP format.

Environmental Products Guide - For GSA Catalog supply items. This guide can be obtained by contacting:

GSA Centralized Mailing List Service
(7CAFL)
P.O. Box 6477
Fort Worth, TX 76115
(817) 334-5215

FAR - *Federal Acquisition Regulations* - The laws governing how the government buys products and services. Title 18 of the U. S. Code allows for direct purchase from UNICOR without competitive bids. (FAR) 8.6 identifies UNICOR as a mandatory procurement source to all federal agencies for products that meet the requirements of the ordering office. See also UNICOR.

FSN 595b - *Federal Standard Number 595b* - A collection of standard colors used by the various departments or agencies. Colors are classified as full gloss, semi-gloss, or flat. The use of Federal Standard colors is not required for interior design projects.

FSN 595b Fan Deck - Federal Standard colors are available in a paint fan deck which can be ordered for under \$10.00 from the following addresses. Use order # NSN 7690-01-162-2210.

General Services Administration
(3F-BP-W)
Specification Unit, Suite 8100
470 L'Enfant Plaza, SW
Washington, DC 20407
(202) 755-0325/0326

or, send request in the form of a
letter to:

Naval Publications and Forms
Center
5801 Tabor Avenue

Philadelphia, PA 19120

FSS - Federal Supply Schedules - Catalogs which list commercial items available at established prices in indefinite quantity for direct order by government agencies. These publications can be ordered from the following address:

Furniture Commodity Center (3FN-CO)
Crystal Mall 4, Rm. 403
Washington, DC 20406
(703) 305-5056

Furniture Systems - Furniture systems refers to workstations which are assembled to create custom designs by the arrangements of miscellaneous components such as work surfaces, shelving, drawers, etc. Furniture systems may be a panel-supported system, a floor-supported system, a desk-based system, it may be available in cluster configurations, or any of a number of methods to arrange various components. Usually it requires professional installation service. The CID designer needs to coordinate the furniture system with the building systems and provide plans and specifications in the contract documents.”

FY - Fiscal Year - a) October 1 through September 30 of the calendar year. b) "FY-...." at the beginning of a project title identifies the year Congress will fund the Construction Contract Award.

GSA FSC/FSG - General Services Administration Federal Supply Classes/Federal Supply Groups - Government contracts with private manufacturers that have a fixed price, a Maximum Order Limitation, and fixed expiration date. A list of products on GSA contract can be ordered from the following address:

GSA Centralized Mailing List Service (7CAFL)
P.O. Box 6477
Fort Worth, TX 76115
(817) 334-5215

IFB - Invitation For Bid - One of the ways the government solicits construction services. The IFB is comprised of contract documents with clearly defined requirements, specifications and terms that are not negotiable. Any proposal prepared in response to an IFB should strictly adhere to the terms. The award is typically based on the lowest bid meeting the requirements and specifications. See also RFP.

JOC --Job Order Contract - The Army's equivalent of the Air Force SABER (Simplified Acquisition of Base Engineering Requirements). This is how an installation contracts for repair work. The Contracting Officer and a contractor agree upon unit prices for work, then individual job orders are negotiated for specific scopes of repair work.

MCA - Military Construction - Funds appropriated by Congress for new construction under fixed price contracts. MCA is the abbreviation used by the Army for this type of funding. Has the same meaning as MCP and MILCON.

MCP - Military Construction - Funds appropriated by Congress for new construction under fixed price contracts. MCP is the abbreviation used by the Air Force for this type of funding. Has the same meaning as MCA and MILCON.

MILCON - *Military Construction* - Funds appropriated by Congress for new construction under fixed price contracts. MILCON is the abbreviation used by the Air Force for this type of funding. Has the same meaning as MCA or MCP.

MOL - *Maximum Order Limitation* - The limit on the amount that can be purchased from a given vendor under GSA Federal Supply Class/Federal Supply Group contracts.

NAF - *Non-Appropriated Funds* - Funds that are generated by sales and services on military installations, such as open messes, golf courses, child development centers, bowling alleys, etc.

O & M - *Operation and Maintenance* - Funds provided to each installation by the Major Command and used for the day to day operations of the installation. These funds may be used for the renovation of existing buildings or for the purchase of furniture. Funds not spent to award a contract disappear at the end of the FY and cannot be recovered. O & M is the abbreviation used by the Air Force for this type of funding. Has the same meaning as OMA.

OMA - *Operation and Maintenance* - See O & M.

Open Market - Designation for products that are not on a GSA contract.

PD - *Project Definition* - The requirement validation and schematic design phase of the design process. It satisfies the requirement for early preliminary design (35%) previously required by Congress. Project Definition begins at the pre-definition conference with the selected A-E and often involves two sub-phases: a requirements analysis phase and a schematic design phase.

Prewired Workstations (PW) - This term formerly connoted the funding method of Systems Furniture. Prewired workstations were identical to Systems Furniture, except they were funded with MILCON dollars. All furniture systems are now O&M funded, but still may be supplied by the General Contractor.

RFP - *Request For Proposal* - One of the ways the government solicits design-build services. An RFP defines a problem and a conceptual solution and allows those who respond to propose a final solution (plans and specifications), construction strategy, and cost estimate. The RFP is much more flexible than the IFB. (See also IFB, Invitation for Bid.)

RFQ - *Request For Quotation* - An informal request for a price for a standard item.

SABER - *Simplified Acquisition of Base Engineering Requirements* - The Air Force equivalent of the Army's JOC (Job Order Contract). This is how an installation contracts for repair work. The Contracting Officer and a Contractor agree upon unit prices for work, then individual job orders are negotiated for specific scopes of repair work.

SF 254 & SF 255 - *Standard Forms 254 and 255* - Résumé forms that state the qualifications of A-E firms responding to a CBD announcement. See also CBD, Commerce Business Daily.

SID - *Structural Interior Design* - a) The selection and sampling of the building related finishes. b) A submittal with samples of proposed building materials for a particular project. Materials and finishes are purchased and installed by the General Contractor. These projects are funded with MILCON or MCA funds, except for Furniture Systems, which are O&M funded.

SIN - *Special Item Number* - A categorization of products contained within a GSA schedule, i. e. SIN 496-4 Bar Stools is contained in the FSC Group 71, Part III, Section H Multipurpose Seating Schedule.

Statement of Work - The contractual scope of work for A-E contracts which outlines the requirements including the specific deliverables and the schedule of design submittals.

Systems Furniture - Systems furniture consists of components, such as work surfaces and storage pieces, which can be configured in various methods to create customized workstations. Traditionally, systems furniture implies panel-supported workstations. Also see the definitions of prewired workstations and furniture systems. The designer coordinates the footprint plans with the building systems and provides the plans in the contract documents for information only.

UNICOR - The trade name for the Federal Prison Industries Inc. (FPI), a wholly owned government corporation established in 1934. UNICOR provides a variety of products and services to the federal government.

INDEX OF REFERENCED STANDARDS

- | | |
|---------------------------|--|
| accessibility | <ul style="list-style-type: none"> • Americans with Disabilities Act: ASTM 117.1 • Uniform Federal Accessibility Standards |
| acoustics | <ul style="list-style-type: none"> • Airborne Sound: ASTM C423, PBS C.1 • Speech Privacy: SPP, Speech Privacy Potential • Impact Sound Transmission: ASTM C 423-66, PBS C-2 |
| egress | <ul style="list-style-type: none"> • NFPA 101 Fire Safety Code - (Most current year) • National Building Code, BOCA • Standard Building Code • Uniform Building Code, ICBO |
| falls | <ul style="list-style-type: none"> • ASTM D-2047 - Test for Slip Resistance of Hard Surfaces |
| fire, flame spread | <ul style="list-style-type: none"> • ASTM E-84 Steiner Tunnel Test. • BS 476, Part 7 Flammability Standard (UK and Belgium) • CAL TB-133 Flammability Test Procedure for Seating Furniture for Use in Public Occupancies • CAL TB-117 (Sections A through E) Test Procedures for Testing the Flame Retardant of Resilient Filling Materials Used in Upholstered Furniture • DIN 4102, B1 Flammability Standard (German) • DOC FFI-70 Standard for the Surface Flammability of Carpet and Rugs Methenamine Pill Test) • NFPA-701-1 / 701-2 Standard Method of Fire Test for Flame Resistant Textiles and Films • NFPA-705 Field Flame Test for Textiles and Films • NFPA 80 Fire Test of Door and Windows • NFPA-220 Standard on Types of Building Construction |

- NFPA-253 Flooring Radiant Panel Test
 - NFPA-255 Standard Method of Test of Surface Burning Characteristics of Building Materials
 - NFPA-258 Research Test Method for Determining Smoke Generation of Solid Materials
 - NFPA-259 Potential Heat of Building Materials
 - NFPA-260 Methods of Tests and Classification System for Cigarette Ignition Resistance of Components
 - NFPA-261 Method of Test for Determining Resistance of Mock-up Upholstered Furniture Material Assemblies to Ignition by Smoldering Cigarettes
 - NFPA-264 Standard Test Method for Heat Release Rates for Upholstered Furniture Components or Composites and Mattresses Using an Oxygen Consumption Calometer
 - NFPA-265 Standard Methods of Fire Tests for Evaluating Room Fire Growth Contribution of Textile Wall Coverings
 - NFPA-267 Standard on Mattress Subjected to Open Flame Ignition Using an Oxygen Consumption Calometer
 - NFPA-701
 - NFPA-703 Standard for Fire Retardant Impregnated Wood and Fire Retardant Coatings for Building Materials
 - UBC 8-2-(94) Test Method for Textile Wall Coverings.
 - UL-1056 Fire Test of Upholstered Furniture
- furnishings**
- ANSI/BIFMA X5.6-86 Standard for Office Furnishings
- lighting**
- ANSI E-97
 - ASTM E-97-ES
- indoor air quality**
- ASHRAE 62-1989R Ventilation Standard for Acceptable Indoor Air Quality

FURNISHING ITEM: _____

ITEM NUMBER: _____

FABRIC
(Fabric Name)
(Fabric Number) (Place sample here)

FINISH
(Finish Name) (Place sample here)
(Finish Number)

(Place photograph here)

OPTIONS (if any)

| ROOM | QUANTITY |
|------------------------------|----------|
| (Enter Room number and name) | _____ |
| (Enter Room number and name) | _____ |
| (Enter Room number and name) | _____ |

Firm Name
Firm Name
Date

FURNITURE ILLUSTRATION SHEET
_____ % Submittal

Project Name
Project Address
Contract No.: _____

| | |
|------------------|------------------------------|
| Project Name | Contract No. XXXXXX-XX-XXXXX |
| Project Location | Firm Name |
| Date: | Firm's Project No. |

Order Data Sheet

| | |
|------------------|--|
| Item Number: | 00X |
| Item Description | (example: Mail Sorter Cabinet) |
| Department: | |
| Manufacturer: | |
| Source: | (include ordering address, phone number, & fax number) |

| | |
|-----------------|------------------|
| GSA Contract # | Expiration Date: |
| FSC Group: | SIN # |
| FSC Part, Sect. | MOL Amount: |

| Component: | Number: | Price: | Qty. | Total |
|------------|---------|--------|------|-------|
| Component: | Number: | Price: | Qty. | Total |
| Component: | Number: | Price: | Qty. | Total |
| Component: | Number: | Price: | Qty. | Total |
| Component: | Number: | Price: | Qty. | Total |
| Component: | Number: | Price: | Qty. | Total |
| Component: | Number: | Price: | Qty. | Total |
| Component: | Number: | Price: | Qty. | Total |

| | | | |
|--------------|---------|--------|------|
| Fabric Name: | Number: | Price: | Qty. |
| Finish: | | | |
| Description: | | | |

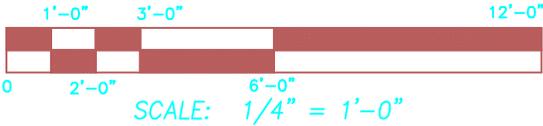
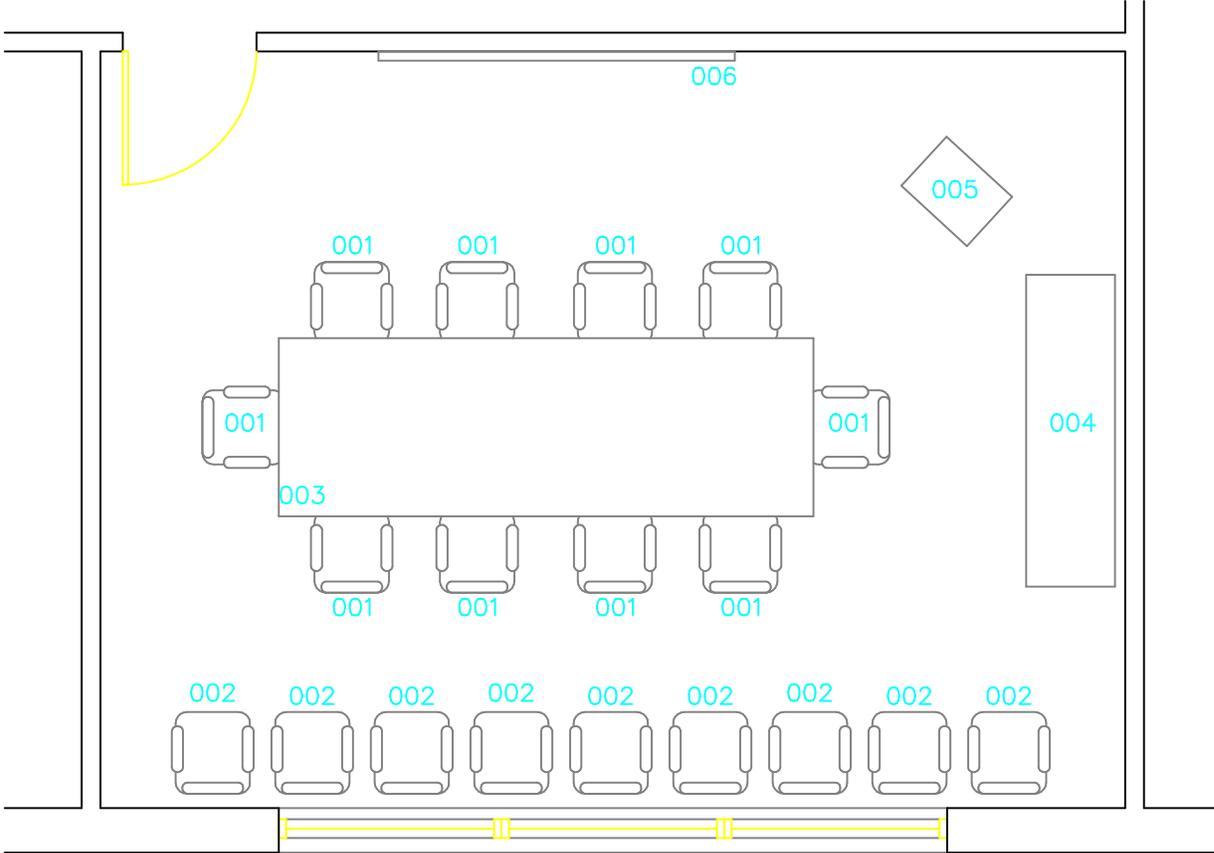
| Weight: | Dimensions: |
|-------------|---------------|
| Department: | Room: Quant.: |

| |
|--------------------------------------|
| Estimated or Actual Freight Charges: |
|--------------------------------------|

| | | |
|-----------------|-------------|--------|
| Total Quantity: | Item Price: | Total: |
|-----------------|-------------|--------|

| |
|-----------------------|
| Special Instructions: |
| |

| |
|----------------|
| Justification: |
| |
| |



ROOM: (ENTER ROOM NAME & NUMBER HERE)

| ITEM NUMBER | DESCRIPTION | QUANTITY |
|-------------|---|----------|
| 001 | CONFERENCE CHAIRS, (SUPPLY MANUFACTURER'S NAME & STYLE NO.) | |
| 002 | GUEST CHAIRS, (SUPPLY MANUFACTURER'S NAME & STYLE NO.) | 9 |
| 003 | CONFERENCE TABLE, (SUPPLY MANUFACTURER'S NAME & STYLE NO.) | 1 |
| 004 | CREDENZA, (SUPPLY MANUFACTURER'S NAME & STYLE NO.) | 1 |
| 005 | PODIUM, (SUPPLY MANUFACTURER'S NAME & STYLE NO.) | 1 |
| 006 | VISUAL BOARD, (SUPPLY MANUFACTURER'S NAME & STYLE NO.) | 1 |

FIRM NAME
FIRM NAME
DATE

FURNITURE PLACEMENT PLAN
PHASE PERCENT

PROJECT NAME
PROJECT NAME
PROJECT LOCATION
CONTRACT NUMBER

(SAMPLE ONLY)
COLOR GUIDE SPECIFICATIONS

PART 1 - GENERAL

1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by the basic designations only.

Federal Standards (Fed-Std)
Fed-Std 595 (Rev B) Color Used in Government Procurement

1.2 GENERAL

This section covers only the color of the exterior and interior materials and products that are exposed to view in the finished construction. The word "color" as used herein includes surface color and pattern. Requirements for quality and method of installation are covered in other appropriate sections of the specifications. Specific locations where the various materials are required are shown in the drawings. Items not designated for color in this section may be specified in other sections. When color is not designated for items, the Contractor shall propose a color for approval.

1.3 SUBMITTALS

Government approval is required for submittals with a "GA" designation; submittals having an "FIO" designation are for information only. The following shall be submitted in accordance with Section _____ - SUBMITTAL DESCRIPTIONS:

SD 14 Samples
Color Board; GA

Four (4) sets of color boards, 120 days after the Contractor is given Notice to Proceed, complying with the following requirements:

- 1.3.1** Color board shall reflect all actual finish textures, patterns, and colors required for this contract.
- 1.3.1** Materials shall be labeled with the finish type, manufacturer's name, the pattern, and the color reference.
- 1.3.3** Samples shall be on size A4 or 215 mm (8 1/2") boards with a maximum spread of size A1 or 640 mm x 825 mm (25 1/2" x 33") for fold outs. Color boards are to be organized and formatted in accordance with the SID and CID Submittal Matrixes in Chapters 3 & 4.
- 1.3.4** Samples for this color board are required in addition to samples requested in other specification sections.
- 1.3.5** Color boards shall be submitted to the following addresses:
(Design Agents, BCE, MAJCOM, Construction Manager, etc.)

PART 2 - PRODUCTS

2.1 COLOR REFERENCE

FED-STD 595 number are specified for color reference only. Where a product is specified to be a factory finished item, the color shall match the FED-STD 595 color. Federal standard colors are designated by 5 digit numbers, the first of which specifies luster. Since the luster is specified in Section _____ - PAINTING, GENERAL, luster is not referenced within this specification. The first digit of the designation is therefore replaced with an “X” when referenced.

2.2 REFERENCE TO MANUFACTURER’S COLOR

Where color is shown as being specific to one manufacturer, an equivalent color by another manufacturer may be submitted for approval. Manufacturers and materials specified are not intended to limit the selection of equal colors from other manufacturers.

2.3 FINISH SCHEDULE

The finish schedule lists the colors, patterns, and textures required for exterior and interior finishes, including both factory applied and field applied colors.

2.4 EXTERIOR FINISHES

Exterior wall colors shall apply to exterior wall surfaces including recesses at entrances and projecting vestibules. Conduit shall be painted to closely match the adjacent surface color. Colors shall be provided to match the colors listed below.

2.4.1 ALUM - Aluminum

| FINISH CODE ON DRAWINGS | EXAMPLE MANUFACTURER | EXAMPLE COLOR |
|-------------------------|----------------------|--|
| Alum-1 | Kawneer | Permanodic No. 29 (Black) |
| Alum-2 | PPG | Duranar Coatings UC43347 -Statuary Bronze |

2.4.2 COMPOSITE ALUMINUM PANELS - (Resin Core)

| FINISH CODE ON DRAWINGS | EXAMPLE MANUFACTURER | EXAMPLE COLOR |
|-------------------------|----------------------|----------------------------|
| CAP-1 | Alpocic | M9177 - Champagne Metallic |

2.4.3 BLINDS, INTEGRATED IN WINDOWS

| FINISH CODE ON DRAWINGS | EXAMPLE MANUFACTURER | EXAMPLE COLOR |
|-------------------------|----------------------|-----------------------|
| | | Match color to Alum-1 |

2.4.4 BRICK

| FINISH CODE ON DRAWINGS | EXAMPLE MANUFACTURER | EXAMPLE COLOR |
|-------------------------|----------------------|--|
| BRK-1 | Chattahoochee Brick | Cambridge, Modular Size Red Brick, Roll Back Finish with a Flash Range 15% to 20% Black, with mortar US Cement 48-B, Crimson Red |
| BRK-2 | Grasselli Brick | “Macy’s” #7 Split Face Block (Off white color) with mortar US Cement 12-B, Ivory Buff. 200 mm x 400 mm x100 mm |

| | | |
|-------|-----------------------|--|
| BRK-3 | King's Mountain Brick | (8"h x 16"l x 4"d). Light Gray Standard Torn Face Special shapes, See elevations (Matches color of BRK-2) with mortar US Cement 12-B, Ivory Buff |
|-------|-----------------------|--|

2.4.5 CER STEEL - Ceramic Steel

| FINISH CODE ON DRAWINGS | EXAMPLE MANUFACTURER | EXAMPLE COLOR |
|-------------------------|----------------------|---------------|
| CER STL-1 | Alliance | “Granite” |

2.4.6 CONC PV - Concrete Pavers with Natural Color Mortar

| FINISH CODE ON DRAWINGS | EXAMPLE MANUFACTURER | EXAMPLE COLOR |
|-------------------------|------------------------------------|--------------------|
| CONC PV-1 | Stonescape Architectural Pavers | 0131 Midnight Haze |
| CONC PV-2 | Stonescape Architectural Pavers | 0143 Mocha Mouse |

2.4.7 P - Paint

| FINISH CODE ON DRAWINGS | EXAMPLE MANUFACTURER | EXAMPLE COLOR |
|-------------------------|----------------------|---------------------------------------|
| P-1 | Benjamin Moore | Ironclad Retardo Deep Bronze 16362 |

2.5 INTERIOR FINISHES

Interior materials shall be provided to match the colors listed below.

2.5.1 FLOORING

2.5.1.1 CPT - Carpet (Broadloom) and Carpet Tile

| FINISH CODE ON DRAWINGS | EXAMPLE MANUFACTURER | EXAMPLE COLOR |
|-------------------------|----------------------|--|
| CPT-1 | Harbinger | Adirondack Color 708, Potash Mountain |
| CPT-2 | Harbinger | Champlain Color CHM 708, Old Forge |
| CPT-3 | Harbinger | Colourado 38 Color 17314 |
| CPT-4 | Harbinger | Estuary Color 3130, Thames |
| CPT-5 | Harbinger | Dividend Color 21737, Revenue |
| CPT-6 | Harbinger | Exchange |

Color 20537, Takeover

2.5.1.2 CTF - Ceramic Tile

| FINISH CODE ON DRAWINGS | EXAMPLE MANUFACTURER | TYPE & EXAMPLE COLOR |
|-------------------------|----------------------|---|
| CTF-1 | American Olean | 50 mm x 50 mm (2" x 2") Unglazed Porcelain Ceramic Mosaic, A-34, Raven |
| CTF-2 | American Olean | 50 mm x 50 mm (2" x 2") Unglazed Porcelain Ceramic Mosaic, A-12, Pepper White |

2.5.1.3 VCT - Vinyl Composition Tile

| FINISH CODE ON DRAWINGS | EXAMPLE MANUFACTURER | TYPE & EXAMPLE COLOR |
|-------------------------|----------------------|--|
| VCT-1 | Armstrong | Standard Excelon, #51941, Polar White |

2.5.2 BASE

2.5.2.1 RB - Rubber Base

| FINISH CODE ON DRAWINGS | EXAMPLE MANUFACTURER | EXAMPLE COLOR |
|-------------------------|----------------------|--------------------|
| VB-1 | Roppe | Color 00, Black |
| VB-2 | Roppe | Color 85, Burgundy |
| VB-3 | Roppe | Color 92, Teal |
| VB-4 | Roppe | Color 87, Blue |

2.5.2.1 WB - Wood Base

| FINISH CODE ON DRAWINGS | EXAMPLE MANUFACTURER | EXAMPLE COLOR |
|-------------------------|----------------------|--|
| WB-1 | | Match Mahogany Stain on NOVA Office Furniture |

2.5.3 PAINT

2.5.3.1 PT - Paint

| FINISH CODE ON DRAWINGS | EXAMPLE MANUFACTURER | EXAMPLE COLOR |
|-------------------------|----------------------|--------------------------|
| PT-1 | Sherwin Williams | SW 1921, Rose Attar |
| PT-2 | Sherwin Williams | SW 1490, Dynasty Blue |
| PT-3 | Sherwin Williams | SW 1497, Mood Indigo |
| PT-4 | Sherwin Williams | SW 1287, Deep Maroon |
| PT-5 | Sherwin Williams | SW 1280, Victoria Garnet |

| | | |
|------|------------------|----------------------------|
| PT-6 | Sherwin Williams | SW 1488, Bluefish |
| PT-7 | Sherwin Williams | SW 1495, Veronica Blue |
| PT-8 | Sherwin Williams | SW 1285, Mauvelous |
| PT-9 | Sherwin Williams | SW 1907, Collector's White |

2.5.4 WALL COVERINGS

2.5.3.1 VWC - Vinyl Wall Covering

| FINISH CODE ON DRAWINGS | EXAMPLE MANUFACTURER | EXAMPLE COLOR |
|-------------------------|----------------------|-----------------------------------|
| VWC-1 | Vin L Fab | Toullisse, #28-060, Angelica |
| VWC-2 | Vin L Fab | Toullisse, #28-412, Sorrel |
| VWC-3 | Boltawall | Jennings, # BA-JN-10, Cool Shadow |

2.5.3.2 WF - Wall Fabric

| FINISH CODE ON DRAWINGS | EXAMPLE MANUFACTURER | EXAMPLE COLOR |
|-------------------------|----------------------|---|
| WF-1 | Gilford, Inc. | Pattern # CAPM 4300, Thing of Naught, Phantom |
| WF-2 | Gilford, Inc. | Pattern # CAQC 4709, Pleasure Dome, Quixotic |

The Civil Engineer:

Major General Eugene A. Lupia

Deputy Civil Engineer:

Dr. Robert D. Wolff

Director, Air Force Center for Environmental Excellence:

Mr. Gary M. Erickson, P.E.

Executive Director, Air Force Center for Environmental Excellence:

Colonel Michael F. McPherson

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