Please read before proceeding:

The following document is the baseline Furniture Item Descriptions (FID), which is edited by CEHNC for project specific requirements. The FID is the procurement document utilized to describe furniture in detail, but generically enough, so multiple manufacturers can provide a quote for a project. The requirements are broken down into construction requirements per category of furniture and by salient features of each item. The requirements in this document are based on industry standards and available products from multiple manufacturers. It is important to note that the categories in the FID do not exactly align with the categories for the nomenclature. This is due to the construction requirements of different furniture categories. The legend was provided to indicate where those nomenclature codes can be found throughout the FID.

This document is not to be used as a final specification but is intended to show the use of the standard nomenclature. The nomenclature is shown at the beginning of each item and can best be seen in the table of contents. Each item may show several nomenclature codes with the final code being determined by the actual item being specified. Again, this specification will be edited and is not intended to be used as final documentation.

This document does not include all the nomenclature that was created. The only location where all the nomenclature is shown is in the legend on pages 7-9. That is not to say that every item that may be designed for or procured is included in this list, but it is indicative of where certain items may be categorized. Several codes are used in other furniture procurement programs but were included in the nomenclature effort. There are also several codes not shown because the items are often less specified than the ones shown in this document.

The legend shown on pages 7-9 is used to show the category of item, the code associated and where the codes may be found in the FID, if at all. It is easiest to read this legend left to right by starting with a category of furniture. The next column shows the function of that category followed by the code given to that category and function. The numbering is dependent upon the number of that item in your project. For example, if a project has 3 task chairs that have different arm features and upholstery fabrics that project would have CT01, CT02, and CT03.

For more detail on the development and use of the FID, please contact the undersigned.

Signed By:

CLARK JAMES T.
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Digitally signed by
Date: 2021.04.16 15:02:50 -05'00'

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US Army Engineering and Support Center, Huntsville
475 Quality Circle
Huntsville, AL 35806
Attachment #2

Furniture Item Descriptions (FID)

ADMIN NC/RM
# Table of Contents

## 1.0 General

<table>
<thead>
<tr>
<th>Submittal Requirements</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>RFQ Response</td>
<td>10</td>
</tr>
<tr>
<td>Non-Conforming RFQ Response</td>
<td>11</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Submittal and Clarifications Format</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>12</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Post Award Submittal</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>12</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Contractor General Notes</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>General</td>
<td>12</td>
</tr>
<tr>
<td>Private Office Furnishings</td>
<td>12</td>
</tr>
<tr>
<td>Collaborative Furnishings</td>
<td>13</td>
</tr>
<tr>
<td>Open Plan Furnishings</td>
<td>13</td>
</tr>
<tr>
<td>Seating</td>
<td>13</td>
</tr>
<tr>
<td>Demountable Walls</td>
<td>13</td>
</tr>
<tr>
<td>Fabrics &amp; Materials</td>
<td>13</td>
</tr>
</tbody>
</table>

## 2.0 Construction Requirements - Panel Supported Workstations [– NOT USED]

<table>
<thead>
<tr>
<th>Item No. CL01-99: Panel Supported Workstations, Cluster of X</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>28</td>
</tr>
</tbody>
</table>

## 3.0 Construction Requirements - Benching Systems [– NOT USED]

<table>
<thead>
<tr>
<th>Item No. CL01-99: Single/Dual Sided Bench, Cluster of X</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>35</td>
</tr>
</tbody>
</table>

## 4.0 Construction Requirements - Console Systems [– NOT USED]

<table>
<thead>
<tr>
<th>Item No. CL01-99: Console Stations, Cluster of X</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>40</td>
</tr>
</tbody>
</table>

## 5.0 Construction Requirements - Demountable Walls [– NOT USED]

<table>
<thead>
<tr>
<th>Item No. WD01-99: Demountable Wall Assembly, Cluster of 4</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>45</td>
</tr>
</tbody>
</table>

## 6.0 Construction Requirements - Freestanding Integrated Desk Systems [– NOT USED]

<table>
<thead>
<tr>
<th>Item No. WS01-99: Freestanding Integrated L-Shaped Desk, Metal/Laminate, Powered</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>52</td>
</tr>
</tbody>
</table>

## 7.0 Construction Requirements - Metal/Laminate Desks [– NOT USED]

<table>
<thead>
<tr>
<th>Item No. D[U] [L] [S] [D]01-99: Freestanding [[L] [U]-Shaped] [Single Pedestal] [Double Pedestal] Desk, Metal/Laminate</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>57</td>
</tr>
</tbody>
</table>

## 8.0 Construction Requirements - Metal/Laminate Open Frame Technical Workstations [– NOT USED]

<table>
<thead>
<tr>
<th>Item No. DT01-99: Open Frame Workstation, Metal/Laminate</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>62</td>
</tr>
</tbody>
</table>

## 9.0 Construction Requirements - Metal Furniture: [Lateral Files, Vertical Files, Storage Towers/Cabinets, & Bookcases] [– NOT USED]

<table>
<thead>
<tr>
<th>Item No. SF01-99: 5-Drawer Lateral File, Metal</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>66</td>
</tr>
</tbody>
</table>

## 10.0 Construction Requirements - Laminate Tables, Metal Bases [– NOT USED]
10.1 Item No. T[C][S]01-99: [Conference] [Meeting] [Work] Table, Metal/[Laminate] [Wood Veneer], Powered ................................................................. 72
10.2 Item No. TT01-99: [Flip Top] [Height Adjustable] Training Table, Metal/Laminate, Powered ................................................................. 72
10.3 Item No. TB01-99: [Break Room] [Café] Table, Metal/Laminate ........................................ 73
11.0 Construction Requirements - Wood Casegoods, Executive III – NOT USED] .......... 73
11.1 Item No. DL01-99: Freestanding L-Shaped Desk, Wood Veneer, [Traditional] [Transitional], Executive II ................................................................. 81
11.2 Item No. DU01-99: Freestanding U-Shaped Desk, Wood Veneer, [Traditional] [Transitional], Executive II ................................................................. 83
11.3 Item No. DD01-99: Freestanding [Single] [Double] Pedestal Desk and Credenza, Wood Veneer, [Traditional] [Transitional], Executive II ................................................................. 84
11.4 Item No. DX01-99: Table Desk, Wood Veneer, Traditional, Executive II ............... 86
11.5 Item No. DR01-99: Freestanding [L-] [U-]Shaped Reception Desk, Wood Veneer, [Traditional] [Transitional], Executive II ................................................................. 86
11.6 Item No. SC01-99: Wardrobe Storage Cabinet, Wood Veneer, [Traditional] [Transitional], Executive II ................................................................. 87
11.7 Item No. SC01-99: Storage Cabinet, Wood Veneer, [Traditional] [Transitional], Executive II ................................................................. 88
11.8 Item No. SC01-99: Hybrid Storage Tower, Wood Veneer, [Traditional] [Transitional], Executive II ................................................................. 89
11.9 Item No. SF01-99: 3-Drawer Lateral File, Wood Veneer, [Traditional] [Transitional], Executive II ................................................................. 89
11.10 Item No. SB01-99: 3-Shelf Bookcase, Wood Veneer, [Traditional] [Transitional], Executive II ................................................................. 90
11.11 Item No. SB01-99: Modular 3-Shelf Bookcase Unit, Wood Veneer, [Traditional] [Transitional], Executive II ................................................................. 91
11.12 Item No. SC01-99: Buffet Credenza, Wood Veneer, [Traditional] [Transitional], Executive II ................................................................. 91
11.13 Item No. SC01-99: Modular Storage Credenza with Media Cabinet, Wood Veneer, [Traditional] [Transitional], Executive II ................................................................. 92
11.14 Item No. AV01-99: Mobile Multi-Media Lectern, Wood Veneer, [Traditional] [Transitional], Executive II ................................................................. 93
12.1 Item No. DL01-99: Freestanding L-Shaped Desk, Wood Veneer, [Traditional] [Transitional], Executive III ................................................................. 102
12.2 Item No. DU01-99: Freestanding U-Shaped Desk, Wood Veneer, [Traditional] [Transitional], Executive III ................................................................. 103
12.3 Item No. DD01-99: Freestanding [Single] [Double] Pedestal Desk and Credenza, Wood Veneer, [Traditional] [Transitional], Executive III ................................................................. 104
12.4 Item No. DX01-99: Table Desk, Wood Veneer, Traditional, Executive III ............. 106
12.5 Item No. DR01-99: Freestanding [L-] [U-]Shaped Reception Desk, Wood Veneer, [Traditional] [Transitional], Executive III ................................................................. 106
12.6 Item No. SC01-99: Wardrobe Storage Cabinet, Wood Veneer, [Traditional] [Transitional], Executive III ................................................................. 107
12.7 Item No. SC01-99: Storage Cabinet, Wood Veneer, [Traditional] [Transitional], Executive III ................................................................. 108
12.8 Item No. SC01-99: Hybrid Storage Tower, Wood Veneer, [Traditional] [Transitional], Executive III.......................................................................................................... 108
12.9 Item No. SF01-99: 3-Drawer Lateral File, Wood Veneer, [Traditional] [Transitional], Executive III.......................................................................................................... 109
12.10 Item No. SB01-99: 3-Shelf Bookcase, Wood Veneer, [Traditional] [Transitional], Executive III.......................................................................................................... 110
12.11 Item No. SB01-99: Modular 3-Shelf Bookcase Unit, Wood Veneer, [Traditional] [Transitional], Executive III................................................................................... 110
12.12 Item No. SC01-99: Buffet Credenza, Wood Veneer, [Traditional] [Transitional], Executive III.......................................................................................................... 111
12.13 Item No. SC01-99: Modular Storage Credenza with Media Cabinet, Wood Veneer, [Traditional] [Transitional], Executive III................................................................ 112
12.14 Item No. AV01-99: Mobile Multi-Media Lectern, Wood Veneer, [Traditional] [Transitional]......................................................................................................... 113
13.0 Construction Requirements - Wood Conference Tables, Executive II[ – NOT USED] 113
13.1 Item No. TC01-99: Round Meeting Table, Wood Veneer, [Traditional] [Transitional], Executive II........................................................................................................... 117
13.2 Item No. TC01-99: [Rectangular] [Racetrack] [Boat Shaped] Conference Table, Wood Veneer, Powered, [Traditional] [Transitional], Executive II........................ 118
14.0 Construction Requirements - Wood Conference Tables, Executive III[ – NOT USED] 118
14.1 Item No. TC01-99: Round Meeting Table, Wood Veneer, [Traditional] [Transitional], Executive III.......................................................................................................... 122
14.2 Item No. TC01-99: [Rectangular] [Racetrack] [Boat Shaped] Conference Table, Wood Veneer, Powered, [Traditional] [Transitional], Executive III........................................................................... 123
15.0 Construction Requirements - Laminate Casegoods[ – NOT USED]................................. 123
15.1 Item No. D[U] [L] [S] [D]01-99: Freestanding [L] [U]-Shaped [Single Pedestal] [Double Pedestal] Desk, Laminate ......................................................................................................................... 127
16.0 Construction Requirements - Laminate Conference Tables[ – NOT USED]..................... 128
16.1 Item No. TC01-99: [Rectangular] [Racetrack] [Boat Shaped] Conference Table, Laminate, Powered ........................................................................................................... 130
17.0 Construction Requirements - Ergonomic [Task & Conference] Seating[ – NOT USED] 131
17.1 Item No. CT01-99: Ergonomic Mid Back Task Chair, [Upholstered] [Faux Leather], [Mesh or Polymer Back]........................................................................................................... 132
17.2 Item No. CC01-99: Ergonomic Conference Chair, [Upholstered] [Faux Leather], [Mesh or Polymer Back]........................................................................................................... 133
18.0 Construction Requirements - Executive [Task & Conference] Seating[ – NOT USED] 134
18.1 Item No. CT01-99: [Ergonomic] Executive Task Chair, [Upholstered] [Faux Leather], [Mesh or Polymer Back]........................................................................................................... 136
19.0 Construction Requirements - Ergonomic Task Stool[ – NOT USED]............................... 137
19.1 Item No. CS01-99: Ergonomic Task Stool, [Upholstered] [Vinyl], [Mesh or Polymer Back]........................................................................................................... 138
19.2 Item No. CN01-99: Industrial Task Stool, [Urethane].......................................................... 139
20.0 Construction Requirements - Traditional Executive [Task & Conference] Seating[ – NOT USED]........................................................................................................... 140
20.1 Item No. CT01-99: Traditional Executive Task Chair, [Upholstered] [Faux Leather] 141
20.2 Item No. CC01-99: Traditional Executive Conference Chair, [Upholstered] [Faux Leather] ................................................................. 141
21.0 Construction Requirements - Seating, Metal Frame, [Thermoplastic/Polypropylene] [Upholstered] [Mesh] – NOT USED] .................................................. 142
21.1 Item No. CG01-99: Guest Chair, Metal Frame, [Upholstered] [Vinyl] [Wood]..... 143
21.2 Item No. [CG] [CB]01-99: [Guest] [Stack] [Break] Chair, Metal Frame, [Thermoplastic/Polypropylene] [Upholstered] .................................................. 144
21.3 Item No. CR01-99: Training Chair, Metal Frame, [Thermoplastic/Polypropylene] [Upholstered][Mesh Back] ................................................................................ 145
21.4 Item No. [CG] [CR]01-99: [Side] [Training] Chair with Tablet Arm, [Thermoplastic/Polypropylene] [Upholstered] .................................................. 146
22.0 Construction Requirements - Seating, Wood Frame[ – NOT USED].......................... 147
22.1 Item No. CG01-99: [Transitional] [Contemporary] Guest Chair, Wood Frame, [Upholstered] .......................................................... 148
22.2 Item No. CG01-99: Traditional Splat Back Guest Chair, Wood Frame, [Upholstered] [Faux Leather] ............................................................. 149
22.3 Item No. CG01-99: Transitional Guest Chair, Wood Frame, [Upholstered] [Faux Leather] .................................................................................. 149
22.4 Item No. CG01-99: Traditional Guest Chair, Wood Frame, [Upholstered] [Faux Leather] ............................................................................... 150
23.0 Construction Requirements – Common Space Furnishings[ – NOT USED]............. 151
23.1 Item No. LC01-99: Lounge Chair, [Upholstered] [Faux Leather] ................................ 152
23.2 Item No. LS01-99: 3-Seat Sofa, [Upholstered] [Faux Leather] ..................................... 153
23.3 Item No. LM01-99: Modular Group, [Upholstered] [Faux Leather] ......................... 154
23.4 Item No. LC01-99: Recliner, [Upholstered] [Faux Leather] ........................................ 155
23.5 Item No. LB01-99: Bench/Ottoman, [Upholstered] [Faux Leather] ......................... 156
23.6 Item No. TL01-99: [Round] [Square] [Rectangular] [End] [Coffee] Table, [Wood Veneer] [Metal/Laminate] ..................................................... 156
24.0 Construction Requirements - Industrial Storage Cabinet[ – NOT USED]................. 157
24.1 Item No. SN01-99: Industrial Storage Cabinet, Metal ........................................... 158
24.2 Item No. SN01-99: Industrial Storage Cabinet, Metal ........................................... 158
25.0 Ancillary Items[ – NOT USED].................................................................................. 158
25.1 Item No. SN01-99: [Open] [Closed] Industrial Storage Shelving, Metal ............... 158
25.2 Item No. SN01-99: Open Industrial Bulk Rack Storage Shelving, Metal [Particleboard] [Corrugated Steel] [Wire] Decking ............................................. 159
25.3 Item No. TN01-99: Work Bench, Metal ............................................................... 159
25.4 Item No. TN01-99: ESD Work Bench, Metal ...................................................... 160
25.5 Item No. AP01-99: Refrigerator ......................................................................... 161
25.6 Item No. AP01-99: Countertop Microwave ........................................................ 162
25.7 Item No. AC01-99: Articulating Keyboard Tray with Mouse Pad ....................... 162
25.8 Item No. AC01-99: [Single] [Double] Monitor Arm ............................................. 162
25.9 Item No. AC01-99: Wastebasket, Plastic ............................................................ 163
25.10 Item No. AC01-99: Wastebasket, Plastic ............................................................ 163
25.11 Item No. AC01-99: Wastebasket, Plastic ............................................................ 164
25.12 Item No. AC01-99: Recycle Container, Plastic ................................................... 164
25.13 Item No. AC01-99: Recycle Container, Plastic ........................................... 164
25.14 Item No. AC01-99: Recycling Container, Plastic ........................................ 165
25.15 Item No. AC01-99: Recycling Receptacle, Fiberglass ............................... 165
25.16 Item No. AC01-99: Square Restricted Recycling Receptacle, Fiberglass .... 165
25.17 Item No. AV01-99: Mobile Lectern ............................................................. 166
25.18 Item No. AC01-99: Chair Cart ................................................................. 166
25.19 Item No. EQ01-99: Mail Room Cabinet, Metal ........................................ 167
25.20 Item No. AV01-99: Magnetic Marker Board, Aluminum Frame ................ 167
25.21 Item No. AV01-99: Cork Board ............................................................... 168
25.22 Item No. AV01-99: Display Case, Wood .................................................. 168
**Item Code Standards Legend:** Please note that some items may not appear in this FID as they may not be commonly used or they are associated with other programs. Army Unaccompanied Housing, Army Family Housing, General/Flag Officer’s Quarters may apply to more furniture categories than shown in the table.

<table>
<thead>
<tr>
<th>Category</th>
<th>Function</th>
<th>Code + ID # (01-99)</th>
<th>Codes Apply To FID Section(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Chairs</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Task</td>
<td>CT</td>
<td>17.0, 18.0, 19.0, 20.0, 21.0, 22.0</td>
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<td></td>
<td>Guest</td>
<td>CG</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Stool</td>
<td>CS</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Conference</td>
<td>CC</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Break</td>
<td>CB</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Training</td>
<td>CR</td>
<td></td>
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<td>Industrial</td>
<td>CN</td>
<td></td>
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<tr>
<td></td>
<td>Function Specific</td>
<td>CX</td>
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</tr>
<tr>
<td><strong>Desks</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>U-Shape</td>
<td>DU</td>
<td>7.0, 8.0, 11.0, 12.0, 15.0</td>
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<td></td>
<td>L-Shape</td>
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<tr>
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<td>Double Pedestal</td>
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<td>Reception</td>
<td>DR</td>
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<td></td>
<td>Technical</td>
<td>DT</td>
<td></td>
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<tr>
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<td>Function Specific</td>
<td>DX</td>
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<td><strong>Workstation</strong></td>
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<td></td>
<td>Systems</td>
<td>WS</td>
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<td>WB</td>
<td>2.0, 3.0, 4.0, 5.0, 6.0</td>
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<td></td>
<td>Demountable Walls</td>
<td>WD</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Consoles / Operations</td>
<td>WC</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Function Specific</td>
<td>WX</td>
<td></td>
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<tr>
<td><strong>Tables</strong></td>
<td></td>
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<td>Work / Support</td>
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<td>10.0, 13.0, 14.0, 16.0, 23.0, 25.0</td>
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<td></td>
<td>Conference / Meeting</td>
<td>TC</td>
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<td>TT</td>
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<tr>
<td></td>
<td>Break / Café</td>
<td>TB</td>
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<td>Lounge &amp; Occasional</td>
<td>TL</td>
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<td><strong>Storage</strong></td>
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<td>Files</td>
<td>SF</td>
<td>9.0, 11.0, 12.0, 15.0, 24.0, 25.0</td>
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<td>Bookcases</td>
<td>SB</td>
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<td></td>
<td>Cabinets / Credenzas</td>
<td>SC</td>
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<tr>
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<td>Hybrid Storage Towers</td>
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<td>SS</td>
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<tr>
<td></td>
<td>Industrial Shelving /</td>
<td></td>
<td></td>
</tr>
<tr>
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<td>Cabinets (Tool)</td>
<td>SN</td>
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<td>Furniture Item Descriptions (FID)</td>
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<table>
<thead>
<tr>
<th>Lounge</th>
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<tbody>
<tr>
<td>High Density</td>
<td>SH</td>
</tr>
<tr>
<td>Lockers</td>
<td>SL</td>
</tr>
<tr>
<td>Function Specific</td>
<td>SX</td>
</tr>
<tr>
<td>Sofa</td>
<td>LS</td>
</tr>
<tr>
<td>Chair</td>
<td>LC</td>
</tr>
<tr>
<td>Modular</td>
<td>LM</td>
</tr>
<tr>
<td>Bench / Ottoman</td>
<td>LB</td>
</tr>
<tr>
<td>Function Specific</td>
<td>LX</td>
</tr>
<tr>
<td><strong>23.0</strong></td>
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1.0 General

Item descriptions and quality requirements, as described in the FID (Furniture Item Descriptions), are for the quality, functional performance, and design intent of the furnishings required for this project. Products quoted that meet all functional and quality requirements, including all salient features listed in the product descriptions, will be considered responsive provided they are fully compliant with the RFQ requirements. Compliance shall be determined by performance, features, quality, design intent, and value. Any item descriptions, salient features, or quality requirements listed within this document are not intended to be proprietary.

1.1 Submittal Requirements

All manufacturers shall provide manufacturer's technical documentation and manufacturer's construction specifications for each item quoted for verification the proposed products meet all requirements listed in the FID. The RFQ response shall be submitted in the format outlined below. For assistance in preparing the RFQ Response, please contact the contracting specialist to request a .pdf of the How to RFQ Guide.

1.1.1 RFQ Response

RFQ technical responses are the documents which, together with contractual documents (SF18, SF30, Attachment 1 in Excel, Attachment 8), make up an overall RFQ response (the quote). RFQ technical responses shall be clearly organized into (1) Adobe Acrobat (PDF) document. The PDF document shall be searchable, include bookmarks for each item number, and be organized per item number of the FID. Each RFQ is a separate contract activity, and specifications from previous projects will not be retrieved and reviewed. All product specifications and information presented shall be legible.

All technical documentation related to each item number shall be located within the same tab in the RFQ response and shall be submitted in the following order:

1. Product Information Required for Each Item Number:
   a. Item number for each product submitted in the RFQ response.
   b. Manufacturer, product line, and model number for each item and its components.
   c. Overall dimensions.
   d. Product image.
   e. Fabric and finish options proposed for RFQ that have been priced for each item.

2. Drawings:
   a. Provide plan view drawings clearly legible and labeled showing legend of components and dimensions for each freestanding desk and panel-supported workstation, including clusters.
   b. Provide elevations or isometrics.
      i. Elevations required with stacking/segmented drawings for panel tiles
c. Electrical and data shall be on a separate drawing from itemized component drawing. Drawing shall be clearly legible and labeled, identifying all locations of electrical and data/communication outlets.

3. **Product Specific Compliance Documentation:**
   a. Provide published, detailed, technical documentation including, but not limited to, specification guides, price catalogs, and manufacturer’s published GSA Price List to demonstrate compliance with requirements.
   b. Highlight, circle, or mark the model, size, type, and any optional features proposed in the RFQ response.

4. **Technical Supporting Compliance Documentation:**
   a. Provide manufacturer’s technical and construction specifications demonstrating compliance to requirements.
   b. Documentation shall only be submitted once for multiple items from the same product line.
   c. Clearly indicate the item numbers that submitted documentation supports.

5. **Testing Documentation:**
   a. Contractors are NOT required to submit testing documentation with quotes; however, the Contracting Officer reserves the right to request actual copies of test reports at any time before or after award.

6. **Environmental Documentation:**
   a. Contractors are NOT required to submit environmental documentation with quotes; however, the Contracting Officer reserves the right to request actual copies of environmental documentation at any time before or after award.
      i. Upon request, contractor shall provide certification for Indoor Air Quality (GREENGUARD or equivalent).
      ii. Upon request, contractor shall provide documentation regarding recycled content and recyclability for all products submitted.

7. **Warranty Documentation:**
   a. Warranty documentation is required to be submitted for seating only.
   b. Contractors are NOT required to submit warranty documentation with quotes; however, the Contracting Officer reserves the right to request actual copies of warranties at any time before or after award.
   c. Although all other items do not require warranty documentation, the contractor is responsible for providing warranty coverage as required in the FID.
   d. Provide any additional or extended warranty that exceeds manufacturer’s standard warranty; extended warranty shall be clearly stated on manufacturer’s letterhead and include a verifiable digital signature containing encryption or handwritten signature, date, and title of the company official accepting technical responsibility.
   e. Some warranties may exceed GSA warranties. Refer to item descriptions for specific warranty requirements by product type.

**1.1.2 Non-Conforming RFQ Response**

Submittal of product brochures shall **not** be acceptable in place of technical documentation or construction specifications. Submittal of a general price list containing
large amounts of items not relevant to the procurement is not acceptable. Extended warranties shall not be typed onto the manufacturer’s current warranty. Submittals not in compliance with Section 1.1.1 of the FID shall be considered non-conforming and declined.

1.2 Submittal and Clarifications Format

The RFQ shall be submitted via electronic communications as stated in Section 1.1.1. The technical supporting documentation shall be submitted in a searchable Adobe Acrobat (PDF) document, organized, and bookmarked by item number of the FID. Embedded objects, i.e. embedded links, files, and images within clarification responses shall be considered non-conforming.

1.3 Post Award Submittal

Refer to Statement of Work (SOW).

1.4 Contractor General Notes

1.4.1 General
1. All products proposed to be installed within one office, suite, or area shall consist of items of one style and finish. All products shall be free of rough or sharp edges. Proposed products shall include all components necessary to provide a complete and stable unit. Items shall have consistent quality standards as described and required in the FID.
2. Although such work is not specifically indicated, furnish and install all supplementary or miscellaneous items, appurtenances, and devices incidental to, or necessary for, sound, secure, and complete installation.
3. Awarded contractor is responsible for verifying all existing field conditions i.e. including, but not limited to base-infeed requirements and electrical conditions. Contractor shall coordinate with power plans.
4. Awarded contractor shall coordinate all furniture locations with all wall mounted equipment including, but not limited to: A/V, televisions, VTC equipment, Visual Communication Boards, etc.
5. Plans provided may not match project requirements in all instances. Follow FID descriptions and configurations and Attachment 1 quantities and locations.

1.4.2 Private Office Furnishings
1. All wood casegoods and wood seating in a common suite or in the same room shall have identical veneer and finish process to ensure complete match in finish and sheen level. If furniture is not from the same manufacturer, a custom match shall be required with a benchmark sample to be required for approval. Coloration of the sample shall be within industry standards.
2. All metal/laminate desks and storage within a workstation or office shall be from the same manufacturer.
3. Exposed storage backs that are not located against walls shall be fully finished.
1.4.3 Collaborative Furnishings
1. All collaborative items, tagged as ____, include images to provide required style, acoustical and visual privacy and design intent. Contractor’s solution shall be submitted to address these specific requirements for each item.

1.4.4 Open Plan Furnishings
1. Panel heights shall be a minimum of 18” from the top of the panel to the deflector plate of the sprinkler head. Awarded contractor shall confirm dimensions in field prior to manufacturing.
2. All tile segments shall align.
3. Ceiling heights are approximately 12’-0”H in open office areas and 10’-0”H in enclosed rooms. Ceiling heights are provided for estimation purposes and coordination of power pole heights. All ceiling heights shall be verified in the field after award and prior to order.
4. Provide power poles for electrical and data service to all clusters.

1.4.5 Seating
1. Seat width and depth shall be measured using the CMD (Chair Measurement Device) protocol, where applicable. Seat width shall be measured from the widest outer points of the seat. Seat depth shall be measured from the most forward point of the back lumbar to the front edge of the seat. Overall height shall be measured from the finished floor to the top of the backrest.
2. If the CMD (Chair Measurement Device) protocol is not used, seat width measurement shall be the dimension between arms, seat depth shall be measured from the front of the seat to the front of the backrest and overall height shall be measured from the finished floor to the top of backrest.
3. Contractor shall provide soft casters and field verify floor material after award.

1.4.6 Demountable Walls
1. Demountable wall assemblies shall run from floor to ceiling and wall to wall. System shall include continuous ceiling and floor tracks. Contractor shall field verify all field conditions including, but not limited to: ceiling height, enclosure width, all wall and ceiling device locations and sprinkler heads after award.
2. All demountable wall placements shall be fully coordinated with all building systems, including but not limited to: Lighting, Electrical, Data/Comm., Fire Protection, Life Safety, Security Systems, HVAC, etc.
3. Contractor shall provide shop drawings and coordinate approvals with end user for all demountable wall assemblies post award and prior to order.
4. All rough-ins and/or devices shall be installed to receive building connection and shall meet local codes and accessibility guidelines.
5. Ceiling heights are approximately 10’-0”H and are for estimation purposes only. Heights of demountable partitions shall be verified in the field after award and prior to order.

1.4.7 Fabrics & Materials
1. To ensure a variety of choice is available to the end user at time of selection, each item requiring upholstery selection, contractor shall propose a different selection for each finish required for order entry.

2. Provide end user with full colorways for each upholstery required to be selected. Submittal responses and/or subsequent clarifications shall be mid-grade textile options. Mid-grade is defined as a fabric grade for an upholstery priced in the middle of the manufacturer’s or graded-in pricing structure. A fabric grade above the lowest grade but not the middle grade of the pricing structure is non-conforming.

3. At the post award meeting, the awarded contractor shall provide a minimum of (5) solids, (5) textured, and (5) patterned selections for each quoted item, unless noted otherwise (UNO). Refer to finish requirements in each item for more specific guidance on upholstery requirements.

4. Where equivalent fabric and finishes have been proposed, bidders shall provide actual samples or color images and specifications for the alternate fabric or finish during technical review; Actual samples and specifications for the alternate fabric or finish shall be submitted at the post award kickoff, if awarded. The Government retains the right to reject any alternates that are not equal to the required specification.

END OF SECTION
2.0 Construction Requirements - Panel Supported Workstations
[– NOT USED]

Warranty Requirements:

1. 10 year.
2. 5 year – Laminate and wood veneer.
3. 3 year – Fabrics and other covering materials.

Modularity Requirements:

All systems furniture components shall be provided by one manufacturer. Products shall be fully compatible and interchangeable with each other to avoid costly reconfiguration expenses. All components shall be modular so that components can be used anywhere within the facility.

The supplier of the system is responsible for performance of all components. All hanging components shall also be modular on the same increments. Provide units which are selectively removable and replaceable without disturbing adjacent components. The modular workstation system shall be composed of panels which fasten together with a universal attachment device.

Testing and Standards:

ANSI/BIFMA X5.5-2014 Desk/Table Products
ANSI/BIFMA X5.6-2016 Panel Systems
ANSI/BIFMA X5.9-2012 Storage Units

Panel Glazing
1. Glazed panel inserts shall be comprised of tempered glass in accordance with ANSI Z97.1-2004.
2. Tempered glass shall conform to ASTM C1048-04, Kind FT, Condition A, Type 1, [Class 1 Transparent.] [Class 3 – Light reducing, tinted or translucent.]

Panel Acoustics
1. All acoustical panels shall have a minimum noise reduction coefficient (NRC) of 0.65 when tested in accordance with ASTM C423-09a and ASTM E795-05.
2. All panels shall have a minimum sound transfer coefficient (STC) of 7 when tested in accordance with ASTM E90-09 and ASTM E413-10.
3. The tests shall be conducted on the entire assembled panel, full face area, which includes the complete core, adhesive, decorative fabric, frame, raceway, and joining components.

Flammability
1. Components shall meet requirements for flame spread and smoke development as specified by NFPA 101.
2. Testing shall be conducted in accordance with either ASTM E84, UL 723, or NFPA 255 on the entire assembled panel and each different combination of fabric and interior construction. In addition, the fabric shall meet the requirements of NFPA 265.
3. Panel flame spread shall not exceed 25 for Class A, and panel smoke development shall not exceed 450 for Class A.

**Electrical System**
1. Task lights shall be UL approved and shall meet the requirements of NFPA 70.
2. The electrical system shall meet the requirements of UL 1286.
3. Receptacles shall be 15 amp (NEMA 5-15R) commercial grade conforming to NEMA WD 1 and NEMA WD 6.
4. Task lighting and receptacles shall be in compliance with ASHRAE 90.1, 2013.

**Cabling**
1. Raceways and interfaces to the raceways shall be designed to accommodate the bend radius as shown in TIA-569-B for Category 6 and fiber optic cables communication wiring.

**Worksurface Material**
2. ANSI A208.2-2009 Medium Density Fiberboard.

**Environmental and Sustainability**
1. All proposed products shall be certified as compliant with Indoor Air Quality (IAQ) requirements and shall meet or exceed ANSI/BIFMA X7.1-2011 (R2016)-VOC.
2. The product submitted shall have certification for IAQ (GREENGUARD or equivalent).
3. The product submitted shall have certification for Indoor Air Quality (Greenguard Gold or equivalent).

The completed installation shall comply with NFPA 70 and NFPA 101.

**Seismic Requirements:**
1. Breakaway base power shall be available.
2. Mechanical safety catches or positive locking devices shall be required.
3. Mechanical safety catches shall be standard on all upper storage units.

**General Requirements:**
1. The wall system shall be capable of structurally supporting multiple-hung appurtenances, including, but not limited to, cantilevered worksurfaces, fully loaded shelves, files, and other components, as well as allow unlimited off-module horizontal attachment locations for these components.
2. Panel supported components shall have a positive integral locking device which secures the components without the use of additional screws or clamps.
3. The panel system shall be able to integrate with the manufacturer's other products.
4. Panels shall be constructed of vertical and horizontal elements assembled at the factory or on-site.
5. Panel frames shall allow the sharing of vertical elements between adjacent panels.
6. All panels and components shall be movable without disassembly.
7. Panel thickness shall be between 3 - 3 ¼" including the outer surface.
8. Panel tiles/inserts shall be replaceable in the field and be removable without tools to allow for internal access to the panel frame, telecommunications and data cabling.
9. The removal of surfaces shall be accomplished without disassembling the workstation and/or panel run.
10. Each fabric faced frame cover shall have a seamless width of fabric stretched over the entire surface of the cover. The color used for each fabric shall be from the same dye lot.
11. Tackable/Acoustical fabric tiles shall have steel frames or steel reinforced edges with tackable fiber filler. Tile corners shall be mechanically reinforced to ensure 90 degree angles. Tiles shall be secured to panel frame by means of brackets, attachment clips or similar fastening method for secure and level attachment and to maintain a tight fit of the tile against the panel frame.
12. Panel tiles and frames shall have light seals.
13. The face finish shall be attached securely and continuously along the entire perimeter of the cover.
14. Fabrics shall be factory installed on initial installation.
15. Frames shall have preassembled steel hangers with slots at 1”- 1½” increments for suspension of worksurfaces and shelf storage. Panel supported components shall have a positive integral locking device.
16. Raceways covers shall be an integral part of both powered and non-powered panels.
17. The base trim shall attach to the panel base with integral hooks without the need for tools; raceways with magnetic covers are non-conforming.
18. The base trim shall have knockouts for power and communication terminations and shall have fillers to close any unused openings.
19. System panels shall have adjustable leveling glides.
20. The system shall be capable of being installed on top of finished flooring without the penetration of the finished floor.
21. Return panels used for the system's structural stability shall at a minimum match the depth of the worksurfaces. Worksurfaces shall be able to be attached with proper return panels without the need for counterbalancing.
22. Panel connection hardware shall be universal or shall be a connector system that allows for the setup of any configuration.
23. Worksurface brackets support shall be provided to attach adjacent return/wing panel the same width as the worksurface depth.

**Stacking Panel Frames:**

1. All panels shall be able to accept stackers.
2. Stack-on capabilities shall include different heights for load bearing and non-load bearing stacker panels.
3. Panels shall be able to stack up to two tiers with the first tier being load bearing.
4. Power distribution and top cap cabling shall not be interrupted when stackers are added to the frame.

**NOC, BOC, SCIF and TOC Area Cabling and Data:**

1. All workstations in NOC, BOC, SCIF, TOC, and other designated areas shall contain both copper and fiber optic, NIPR (non-secure data/comm. lines), SIPR (secure data/comm. lines), and JWICS outlets (fiber optics).
2. Each BOC, NOC, SCIF, and TOC workstation shall consist of SIPR, JWICS and NIPR connections, each using a separate cable.
3. The SIPR and JWICS outlets shall terminate in the same faceplate in a technology tile above the worksurface.
4. All electrical and data access shall be provided through pass through floor boxes within a raised access floor for rooms.
5. Base in-feeds shall be connected to floor boxes in the slab. Power poles shall be required for routing secure data cables from the ceiling to each cluster in addition to the cables intended to be routed in the base raceway.
6. Separate floor boxes shall be provided for power to each [cluster] [workstation]. Each floor box shall service (4) workstations in each cluster.
7. Panels and connections shall meet cable bend radii and support requirements for fiber optics cable, shielded Category 6 and higher rated cables in accordance with EIA/TIA standards.
8. Panel systems shall have a structural metal frame with an open core to allow storage of excess communications and power cabling (service loop) within the panel cavity.
9. Cutouts shall be provided in the technology tile to allow JWICS cable entry from floor boxes. At no time shall the cables be exposed as they pass from floor box to panel.
10. Panel configurations shall ensure that the separation between NIPR (in the base raceway) and SIPR and/or JWICS (above the worksurface) shall be 36” minimum, either vertically or horizontally.
11. Panel systems shall allow fiber optic JWICS and SIPR cabling to be routed through the workstations both vertically and horizontally in metal channel(s).
12. SIPR shall run in a metal channel both vertically and horizontally, separated from other electrical and electronic cables.
13. Power and NIPR cables shall not run in the same channel as SIPR cables nor cross SIPR cables.
14. Lay-in cabling shall be accommodated in the base, beltl ine, and in the top of every panel.
15. Lay-in cabling is preferred at the technology tile above the worksurface. An acceptable alternate shall be a trough concealed within the panels. If this “fish-through” method is used, gasket covers shall surround the cutouts to prevent damage to wires.
16. Vertical channels shall have a 50% fill maximum.
17. Penetrations (knockouts) and bezels in the workstation panels shall be provided by the contractor. Manufacturer shall coordinate with contractor after award to ensure that what is provided can be accommodated by system. Faceplates to accommodate
the connectors shall be provided by others. Refer to item description for JWICS faceplates to be accommodated by the knockout and bezel.

Cabling:

1. Construction of the panel shall allow for the storage of excess cabling inside the panel cavity.
2. The panel system shall have the ability to exit wires from the top of the panel when power poles are required.
3. Vertical wire management within the panel shall be available which will allow cables to be routed from the top cable cavity to the base and vice-versa.
4. Base power feeds shall be provided.
5. Beltline configurations at the desk height level shall allow for both duplex receptacle and data port access.
6. Power and data access at the beltline shall be able to be provided on one individual panel without the necessity of running power and data through the beltline of adjacent panels. Beltline power shall be available for installation at a later time to existing panels.
7. Cables which run through the metal frame shall be protected by the frame’s construction and shall not interfere with the ability to hang components. Protection shall consist of a plastic sleeve or grommet to cover exposed metal frame(s).
8. Lay-in cable routing shall be accommodated in the base and/or the top of every panel.
9. All panels shall be able to accommodate a minimum of (40) 0.25” diameter unshielded cables at 40% fill.
10. Cables shall be able to be routed through the [base,] [beltline] [and/or top cap].
11. Fish-through cabling shall be acceptable at the beltline provided openings have a sleeve cover to protect it from rough or sharp edges.
12. Allow internal cables vertical pathways from the top to either the beltline or base cavity without external cable managers. This vertical path shall accommodate a minimum of (10) 0.25” diameter cables.

Power and Data:

1. The electrical system shall be capable of reconfiguration without the need for an electrician. Licensed electricians shall be used for hardwire connections of only base and top cap feeds.
2. All base power-ins shall come with flexible liquid tight conduits.
3. The base raceway shall be able to accommodate duplex outlets in a back-to-back configuration.
4. Phone and data components shall be available as part of the system.
5. Power access shall be available within the panel at the base or at worksurface height. Power poles shall be available for routing power and cables from the ceiling.
6. There shall be a metal separation within the power pole between telephone and data cabling from general power requirements.
7. The power system shall be available with both shared and separate neutral wiring schematic options to better match up to existing building power systems.
8. Power components are color-coded and keyed for safety.
9. Panels shall offer no less than three wiring schematic choices: 2 + 2, 8 wire, 4 circuit; 3+1, 8 wire, 4 circuit; and 3 separate Neutrals, 8 wire, 3 circuit. Other options are acceptable, but shall work with the power supplied on site from the electrical closet and panel boards. Contractor shall be responsible for coordinating circuit schematics with what is on site.
10. 15-Amp receptacles shall be interchangeable for power ways.
11. Power receptacles shall snap into power kits on one side of the panel or on both sides. Receptacles shall be able to be added or moved as needed.
12. Manufacturer/manufacturer’s representative shall coordinate with electrical trades to establish which circuits distributed to the furniture are controlled outlets.
13. Controlled outlets shall have labels or stamps which can be applied in the field. Labels shall consist of NEC and IEEE universal symbol for controlled receptacle with the word controlled on the label.
14. Receptacles for equipment requiring continuous operations, (24/7) shall not be on controlled receptacles.
15. Cable trays shall consist of steel channels which are field installed between two vertical elements for additional support within the frame.
16. Beltline power shall be constructed the same as a steel pan skin, but feature ABS plastic adapters and trim parts which snap into the pre-cut holes in the skin to accommodate power and communication modules.
17. If power harnesses are used, they shall be shielded to avoid electrical interference with communication cabling.
18. Cabling terminations shall not utilize any of the power access locations within the panel's base.

Panel Stabilization:

1. At no time shall there be a straight run of panels without some form of stabilization.
2. For panels that form an enclosure without components, follow the manufacturer’s recommendations for formulas and guidelines.
3. All panel runs between two walls, or building abutments and walls, shall use wall starters for stability; follow the manufacturer’s guidelines and formulas.
4. All panels that form several workstation enclosures will have appropriately sized perpendicular panels to form a “T” configuration.
5. The use of panel feet for stability is non-conforming.

Hinged Doors:

1. Full height hinged doors shall match the height of adjacent panels.
2. Doors shall not swing out into an aisle that is a main means of egress.
3. Doors shall be 1½” - 1¾” thick.
4. The door’s construction shall be 5-ply with a honeycomb core.
5. Doors shall be right or left handed and cannot be changed in the field. Refer to floor plans for handedness.
6. Door shall have full length hinges.
7. Door shall include a factory installed lockset consisting of a lever handset with an outside keyhole and inside lock button.
8. Locksets shall meet ADA guidelines.
9. Installations shall include all necessary hardware, i.e. panel attachment, bracket threshold, overhead frame, for a complete and stable installation.
10. Follow manufacturer’s requirements for maximum stability.
11. Glazing in doors shall conform to ADA guidelines.

Rolling/Sliding Doors:

1. Rolling doors shall have the ability to open and close without the requirement for door swing clearance.
2. Doors shall mount on a host panel and close into a panel or post, as the manufacturer requires.
3. Doors shall match the height of the host panel.
4. A full width threshold shall be used and be ADA compliant.
5. Wheels on the door shall have a 1” adjustment.
6. Door frames shall be integral to the complete unit.
7. Rolling doors shall be constructed with an aluminum extruded frame.
8. Door shall include any necessary components and hardware for a complete installation.
9. Door handedness shall be determined by the direction the rolling door opens from a closed position to an open position.
10. Door handles shall be integral and ADA compliant.
11. Follow manufacturer’s requirements for maximum stability.
12. Glazing in doors shall conform to ADA guidelines.

Worksurfaces:

1. Worksurfaces shall be capable of being suspended from similar width standard panel system modules or supports. Supplemental supports shall be used only under worksurfaces when workstation configuration does not permit full support by panels.
2. Metal support brackets shall support worksurfaces and provide metal-to-metal fittings to the vertical uprights of the panel.
3. Worksurfaces shall be constructed of a Grade M2 or M3 particleboard or a 45 lb. medium density fiberboard core with a minimum VGS General Purpose Grade High Pressure Laminate on the face and a backer material on the underside.
4. Laminates shall be bonded to the core with a PVA adhesive in a cold press or hot press process to prevent separation of the laminate from the core.
5. Low pressure laminates and thermally fused laminates shall be considered non-conforming.
6. Worksurface edges shall be totally finished and sealed against moisture with a flat edged, impact resistant vinyl/ABS or similar plastic, have a radius of at least 1/8”, and be 2-3 mm thick.
7. Laminate self-edges shall be considered non-conforming.
8. Abutting worksurfaces shall mate closely and at equal heights when used in side-by-side configurations in order to provide a continuous and level worksurface.
9. Worksurfaces shall be capable of being easily relocated and installed at various heights without tools.
10. Grommets and/or scallops shall have the ability to be factory or field installed.
11. All grommets shall be provided with an insert and cap.
12. All corners of abutting worksurfaces shall be 90 degrees, and the front edge of the worksurfaces shall be flush to one another.
13. Transaction surfaces shall be available for use on top of panels to create “across the counter” work/display areas. The width shall depend on the width of the panel(s) it will traverse, and the surface shall end flush with the panel. There shall be at least one right angle transaction surface to accommodate two panels that converge at 90 degrees.
14. Unsupported worksurfaces 47” or longer in length shall have a metal reinforcement channel below the worksurface to minimize deflection.

Adjustable Height Worksurfaces:

1. Table top thickness shall be no less than 1”
2. Adjustable height worksurfaces shall have a minimum range of 15”.
3. All electrical lines for the adjustable height unit shall have line embedded with gasket to prevent accidental damage.
4. Adjustable height worksurfaces shall meet BIFMA standard, 22.6” – 48.7”H.

Adjustable Height – Electrical Applications:

1. Base shall be electric; pneumatic, crank or pin height adjustment is non-conforming.
2. If enclosed, lifting mechanism shall not decrease kneespace more than 8” underneath unit.
3. Weight capacity shall be minimum of 200 lbs., including top.
4. Height adjustment mechanism:
   i. Adjustment speed shall be a minimum of 1.4” per second.
   ii. Shall operate by touch pad or push button with a minimum of 3 programmable memory settings.
   iii. Mechanism shall have safety stops.
   iv. Motor shall be enclosed and UL or ETL listed.
   v. Mechanism shall have CE mark.
5. All electric components shall be compatible with 230V/50HZ [German][Belgium][Italian] power and manufactured with a Schuko Type F plug.

Power Module Requirements:

1. Electrical components shall be manufactured in compliance with NEC regulations and shall be UL approved.
2. Power/Data modules shall be recessed from view and accessed via a touch latch or a hinged or sliding cover.
3. Module shall have CE mark.
4. All electric components shall be compatible with 230V/50HZ [German][Belgium][Italian] power and manufactured with a Schuko Type F plug.
Storage Pedestals:

1. File drawers and box drawers shall be of steel construction.
2. Pedestals shall be freestanding.
3. Pedestals shall fit flush with the front edge of the worksurface.
4. Suspended pedestals shall be considered non-conforming.
5. Pedestals shall be a completely enclosed modular unit. All pedestals shall have a fully finished top and back and full dustpan or bottom.
6. Drawers shall be 5-sided.
7. All box and file drawers shall have ball bearing slides.
8. Drawer fronts shall be 22-gauge steel, minimum, and drawer bodies shall be 22-gauge steel, minimum.
9. Box drawers shall have full access or minimum 90% extension slides.
10. File drawers shall have full extension slides.
11. All 12” file drawers shall be equipped with rails or high sides for hanging folders front-to-back and side-to-side.
12. Leveling glides shall be standard to adjust height on uneven floors.
13. Mobile pedestals shall be furnished with internal counterbalance weights to prevent instability and tipping.
14. Mobile pedestals shall have at least two swivel casters.
15. Mobile pedestals shall have seat cushions attached with fasteners to the top of the pedestal.
   a. Shall be load bearing.

Low Storage Credenza and Slide-Out Storage Tower Units:

1. The case body is made up of fully finished back, two sides, a top, and a base.
2. The unit shall be equally and fully finished on all interior and exterior surfaces.
3. Units shall have a steel or laminate base. The base is comprised of a lower pan and leveling glides, and shall be welded in the bottom cavity of the cabinet body or in a similar construction.
4. Leveling glides shall provide a minimum 5/8” adjustment.
5. The side panels and back panel shall be either a minimum of 22-gauge steel or laminate.
6. The top and bottom shall be either a minimum of 22-gauge steel or laminate.
7. Top surfaces shall be constructed of a Grade M2 or M3 particleboard or a 45 lb. medium density fiberboard core with a minimum VGS General Purpose Grade High Pressure Laminate on the face and a backer material on the underside.
8. Laminates shall be bonded to the core with a PVA adhesive in a cold press or hot press process to prevent separation of the laminate from the core.
9. The interior and exterior finish of cases shall match if same material.
10. The low storage credenza unit shall have seat cushions attached with fasteners to the top. Weight cushions are non-conforming.
    a. Shall be load bearing.
11. Worksurfaces and tops on casework shall be constructed of a Grade M2 or M3 particleboard or a 45 lb. medium density fiberboard core.
12. Worksurfaces and tops on casegoods less than 65" H shall have minimum VGS General Purpose Grade High Pressure Laminate on the face and a backer material on the underside.

13. High pressure laminates shall be bonded to the core with a PVA adhesive in a cold press or hot press process to prevent separation of the laminate from the core.

14. Laminate self-edges shall be considered non-conforming.

Overhead Storage:

1. Overhead storage units shall be constructed of steel in the following gauges:
   a. Shelves shall be 18 to 22-gauge steel.
   b. Tops shall be 20 to 22-gauge steel.
   c. Doors shall be 20 to 24-gauge steel.
2. Backs shall be 20 to 24-gauge steel.
3. Overhead storage bins shall consist of a shelf, end panels, closed back or partially-closed back/rear lip, door, and required assembly components.
4. Fully finished closed backs shall be provided in all up-mounted applications. Finish shall match adjacent end panels, doors, tops, and shelves.
5. The inside clearance depth shall accommodate a 3-ring binder for 8.5" x 11" paper and shall be a minimum overall depth of 12". The door shall fully close without pushing binders into the panel surface.
6. The minimum inside height clearance shall be 12".
7. Overhead storage shall be readily installed, removed or relocated without disturbing adjacent modular components.
8. Units shall be able to span one or more panel widths.
9. Overhead storage shall attach to panels and be interchangeable.
10. Overhead storage bins shall be able to be mounted on panels up to 12" less wide than the overhead.

Task Lighting:

1. Task lights shall be a standard component of the manufacturer's furniture products.
2. Task lights shall recess into the bottom of overhead bins and shelves.
3. Task lights for 72" wide, and greater, overhead storage bins shall be no less than 46" wide.
4. All other task lights shall be sized appropriately for the overhead storage bin.
5. LED task lights shall have a minimum 50,000-hour life span and 3500K color temperature.
6. Depending on the task light length, LED Color Rendering Index (CRI) shall range from 83-84.
7. Electronic ballasts shall be provided to eliminate fluorescent lamp flicker and computer screen interference. Shared ballasts shall not be used.
8. Task lights shall provide glare control.
9. Task lights shall have an easily accessible on-off switch.
10. Daisy chain cords shall be available for modular connection of shelf lights.
11. All fixture diffusers, grilles, or other coverings shall be easily removable to permit cleaning and replacement.
12. Task lights shall be UL or ETL listed and labeled.
13. Task lights shall have CE mark.

**WS01-99: Panel Supported [Reception] Workstation**

*Individual Workstation* [Overall] Dimensions: 6'-0"W x 6'-0"D (Not including panel thickness)

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<th>Researched product lines:</th>
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Contractor shall:
*Confirm handedness in field.*

*Coordinate layout with existing windows, wall-mounted data boxes, etc., as applicable.*

*Provide all electrical connections, i.e. base feeds, power poles and accessory items as needed.*

**Individual Workstation Components:**

a. 60"W x 30"D Peninsula worksurface with column leg
b. 48"W x 24"D Rectangular worksurface
c. 48"W x 12"-15"D Transaction worksurface
d. 36"W x 24"D x 66"W Extended Curved corner worksurface
e. 46"W x 27-29"D Adjustable height freestanding table
   i. Top width and depth shall allow for 1" minimum clearance for pinch points and cable routing to other workstation components
   ii. Base shall be electric; pneumatic, crank or pin height adjustment is non-conforming
      a. Power cord shall be long enough to reach power source
      b. Metal C-legs with metal end caps
      c. Legs shall not interfere with kneespace clearance
   iii. Wire management tray or basket below the table top
   iv. Cord management chain or snake
   v. Leveling glides
   vi. Grommets with covers; coordinate locations with end user after award and prior to order
f. 30"D Box/Box/File pedestal with (1) pencil tray per pedestal and (1) drawer divider for each box drawer
g. 24"D File/File pedestal
h. [18-24]"D Mobile [pencil/box/file] [box/file] pedestal with cushion top and with (1) pencil tray per pedestal and (1) drawer divider for each box drawer
i. [18-24]"D Mobile file/file pedestal
j. 36"W 2-Drawer lateral file with rails to provide side-to-side and front-to-back filing and shall accommodate letter, legal or other size folders
k. 48"W Overhead storage bin with [flipper] [sliding] doors
   i. Doors shall [recede into the case] [open over the case]
ii. Flipper doors shall have a soft closing, or similar, mechanism.
iii. Overhead storage bin shall have dividers or bookends that attach securely to the bin.
iv. Provide energy efficient [task] [LED] lighting with vertical cord manager and power cord long enough to reach power source
   1. Provide task light with occupancy sensor; sensor shall be installed facing user.

l. 24"W x 24"D Hybrid storage tower:
   i. (1) Adjustable shelf with file/file below, one side
   ii. Full height storage cabinet with coat rod, other side

m. 15-18"W x 30"D x 40-42"H Freestanding slide-out storage tower:
   i. (1) Slide-out compartment configuration shall utilize manufacturer’s standard offering of accessories to accomplish the following design intent to include:
      a. (1) Hook for personal item
      b. (2) Small organizer trays for supplies
      c. (1) Large tray
      d. (1) File hanger or section
      e. Slatwall may be used to configure accessories, if required to accomplish configuration.

n. 48"W x 18"D Low storage credenza:
   i. (1) Box drawer and (1) lateral drawer; locate closest to hybrid storage tower
      a. Box drawer shall have (1) pencil tray and (2) full depth drawer dividers for each box drawer
      b. Lateral drawer shall have file rails for side-to-side and front-to-back filing and shall accommodate letter, legal and/or other size folders
   ii. Open storage with (1) adjustable shelf, other side
   iii. Full width and full depth upholstered cushion, securely attached
   iv. Counterbalance
   v. Base shall include pedestal feet
   vi. Leveling glides
   vii. Grommet at back of open shelf

o. XX-XX"H [Monolithic,] [Segmented,] acoustical, tackable panels:
   i. Space between panel heights and sprinkler heads shall meet code requirements. Refer to General Notes.
   ii. Minimum of (3) tiles:
      a. Interior tiles:
         1. Bottom tile: [Metal] [Tackable acoustical fabric]
         2. Middle tile: [Tackable acoustical fabric] [Slatwall tile]
         3. Top tile: [Tackable acoustical fabric] [Glass/Acrylic]
      b. Exterior tiles: All segments shall be tackable acoustical fabric
      c. Fabric tiles on the interior of the workstation
      d. Wood veneer tiles on the exterior of the workstation
   i. Provide wing panels as necessary to manufacturer requirements for stability; if wing panels are necessary, use minimum number possible.
   ii. Provide wall starters as necessary to manufacturer requirements for stability.

p. XX-XX"H Panel frame with acoustical tackable tiles

q. XX-XX"H [Rolling] [Sliding] [Hinged] Door
Furniture Item Descriptions (FID)
Garrison, State – Bldg. Type, Bldg. #, PN

r. Style of all end panels shall [be fully enclosed] [have open frames] [legs]
s. (4) Duplex receptacles located in the [base raceway] [beltline] [beltline, above the worksurface] [beltline, below the worksurface]
i. (4) Duplex outlets shall be located in base raceways, (1) dedicated and (3) general
ii. Controlled receptacles shall have controlled labels as required in Power and Data section.
iii. Manufacturer shall coordinate with trades in the field for location and identification of controlled outlets.
t. Duplex receptacles shall be evenly distributed across all worksurfaces
u. (2) Punch outs for data/comm. located in the [base raceway] [beltline] [beltline, above the worksurface] [beltline, below the worksurface]. [Coordinate location with end user after award] [Refer to provided plans for locations]
v. (2) Technology tiles located in the beltline above the worksurface. Coordinate location with end user after award
   i. Technology tile shall include the following: (2) cutouts shall include; (1) duplex outlet and (1) punch out for (2) data/comm. [Cover shall be included as part of the cutout or punch out. (Ports for data/comm. provided by others)]
   ii. Provide (1) extra metal cable tray in panels for future vertical wiring requirements
w. Refer to provided floor plans for cluster layout and shared panels
x. Grommets with covers and/or scallops on all worksurfaces or provide gap at back of worksurface
y. Paper management accessories on [slatwall] [rail]: (1) pencil cup, (2) horizontal double side legal paper trays, (2) diagonal paper trays
z. Coat hook
aa. Cable trays and/or clips for wire management below all worksurfaces
bb. Locks at all drawers and doors
   i. Item shall be keyed to match adjacent furnishings within the workstation [room, space, area]
cc. All worksurfaces [and storage fronts] shall be [laminate] [wood veneer]. Storage cases and supports shall be metal

Finish:
a. High Pressure Laminate: Manufacturer’s standard selection shall include color
b. Wood Veneer: Manufacturer’s standard stain selection shall include color
c. Edge: Manufacturer’s standard [vinyl/ABS] [solid wood] selection shall [match wood grain pattern][coordinate with worksurface color]
d. Metal: Manufacturer’s standard powder coat paint selection shall include color
e. Pulls: Manufacturer’s standard selection
f. Panel Fabric: Manufacturer’s standard mid-grade fabric selection shall include color
g. Pedestal Fabric: Manufacturer’s standard, woven, stain resistant, mid-grade [patterned, textured, and/or solid] selection; 100,000+ double rubs shall include color
h. Top Cap and Trim: Manufacturer’s standard [plastic] [metal] [wood veneer] selection shall include color
   i. Low Storage Laminate: Manufacturer’s standard selection shall include color
j. Low Storage Fabric: Manufacturer’s standard, woven, stain resistant, mid-grade [patterned, textured, and/or solid] selection; 100,000+ double rubs shall include color
2.1 Item No. CL01-99: Panel Supported Workstations, Cluster of X
[Cluster] [Overall] Dimensions: 6'-0"W x 6'-0"D (Not including panel thickness)

Cluster Components:
  a. (1) TYP-01
  b. (2) TYP-02

3.0 Construction Requirements - Benching Systems [- NOT USED]

Warranty Requirements:

1. 10 year.
2. 5 year – Laminate

Modularity Requirements:

All desking/benching furniture components shall be provided by one manufacturer. Products shall be fully compatible and interchangeable with each other to avoid costly reconfiguration expenses. All components shall be modular so components can be used anywhere within the facility. The supplier of the system is responsible for performance of all components.

Testing and Standards:

ANSI/BIFMA X5.5-2014 Desk/Table Products
ANSI/BIFMA X5.9-2012 Storage Units

Electrical System

1. The electrical system shall meet the requirements of UL 1286.
2. Receptacles shall be 15 amp (NEMA 5-15R) commercial grade conforming to NEMA WD 1 and NEMA WD 6.

Cabling

1. Raceways and interfaces to the raceways shall be designed to accommodate the bend radius as shown in TIA-569-B for Category 6 and fiber optic cables communication wiring.

Worksurface Material

2. ANSI A208.2-2009 Medium Density Fiberboard.

Environmental and Sustainability

1. All proposed products shall be certified as compliant with Indoor Air Quality (IAQ) requirements and shall meet or exceed ANSI/BIFMA X7.1-2011 (R2016)-VOC.
2. The product submitted shall have certification for IAQ (GREENGUARD or equivalent).
3. The product submitted shall have certification for Indoor Air Quality (Greenguard Gold or equivalent).

The completed installation shall comply with NFPA 70 and NFPA 101.

General Requirements:

1. Freestanding units shall have components that include a worksurface, floor supports, end supports, back panel, and accommodations for concealing cords and cables.
2. Freestanding units shall be specified complete with no exposed or “raw” parts. Include available covers, fillers and trims available in manufacturer’s standard product line to provide for a complete and finished appearance and function.
3. Worksurfaces shall be fully supported by supports such as brackets, legs, panels, etc., following the manufacturer’s standard practices for the size, type and placement. Size and placement of supports shall not interfere with kneespace clearances.
4. A freestanding steel furniture system (no panel dependence) shall be based on desk-like products that are linked together and powered to provide planning options similar to panel-based stations.
5. Wireway or channel shall exit at both ends of the structure to pass electrical and communication wiring to next module.
6. Desk based workstations shall have no “creep”.
7. Powered desk components, style, and finish shall match other non-powered metal/laminate desk components.
8. The worksurface height shall be 28½” to 30” from the finished floor.
9. Freestanding unit leveling glides shall adjust to allow installation on uneven floors. Minimum adjustment shall be 1 ½”.

Electrical and Data:

1. Provide an integral wireway, channel or trough for electrical components, and a wire management system under the worksurface and above any base raceway.
2. Desk system shall offer no less than three wiring schematic choices: 2+2, 8 wire, 4 circuit; 3+1, 8 wire, 4 circuit; 3 separate neutrals, 8 wire, 3 circuit. Other options may be viable, but must work with the power supplied on site from the electrical closet and panel boards. Bidder is responsible for coordinating circuit schematics, unless noted otherwise in item descriptions.
3. The power system shall be available with separate neutral wiring schematic options to better match up to existing building power systems.
4. Power components are color-coded and keyed for safety.
5. 15 Amp receptacles are required unless otherwise noted in item descriptions, and shall be interchangeable for power ways. All receptacles shall be easily identified by line/circuit identification numbers and code.
6. Electrical distribution shall be flexible steel shielded conduits or enclosed shielded raceways, and shall be continuous non-interrupted raceways or power harnesses.
7. Power poles shall be available for routing power and cables from the ceiling.
8. There shall be a metal separation within the power pole between telephone and data cabling from general power requirements.
9. Add-on power strips shall be considered non-conforming.
10. All desks and supports shall provide an integral horizontal raceway system below the worksurface.
11. Raceway channels shall be designed to permit easy access to the raceway when required.
12. Power shall pass from station to station in a cluster from a single power feed location and not require individual power feeds for each desk.
13. Non-powered raceways shall be capable of field conversion to powered raceways without requiring desks to be dismantled or removed from the cluster.
14. Base in-feeds shall be connected to floor boxes in the slab. Power poles shall be required for routing secure data cables from the ceiling to each cluster in addition to the cables intended to be routed in the base raceway.
15. Separate floor boxes shall be provided for power to each cluster. Each floor box shall service (4) workstations in each cluster.
16. Connections shall meet cable bend radii and support requirements for fiber optics cable, shielded Category 6 and higher rated cables in accordance with EIA/TIA standards.
17. Desking/Benching configurations shall ensure the separation between power and NIPR to SIPR shall be 6" minimum, either vertically or horizontally.
18. Penetrations (knockouts) and bezels in the desking/benching modules shall be provided by the contractor. Manufacturer shall coordinate with contractor after award to confirm compatibility with the system. Faceplates to accommodate the connectors shall be provided by others. Refer to item description for faceplates to be accommodated by the knockout and bezel.

**Worksurfaces:**

1. Worksurfaces shall be constructed of a Grade M2 or M3 particleboard or a 45 lb. medium density fiberboard core with a minimum VGS General Purpose Grade High Pressure Laminate on the face and a backer material on the underside.
2. Laminates shall be bonded to the core with a PVA adhesive in a cold press or hot press process to prevent separation of the laminate from the core.
3. Low pressure laminate and thermally fused laminate shall be considered non-conforming.
4. Worksurface edges shall be totally finished and sealed against moisture with a flat edged, impact resistant vinyl/ABS or similar plastic, have a radius of at least 1/8", and be 2mm – 3mm thick.
5. Laminate self-edges shall be considered non-conforming.
6. Abutting worksurfaces shall mate closely with metal-to-metal connections and at equal heights when used in side-by-side configurations in order to provide a continuous and level worksurface.
7. Worksurfaces shall include predrilled location holes that ensure accurate and secure attachment of desk supports, storage products and legs.
8. Unsupported worksurfaces 47" or longer in length shall have a metal reinforcement channel below the worksurface to minimize deflection.

**Adjustable Height Worksurfaces:**

1. Table top thickness shall be no less than 1"
2. Adjustable height worksurfaces shall have a minimum range of 15".
3. All electrical lines for the adjustable height unit shall have line embedded with gasket to prevent accidental damage.
4. Adjustable height worksurfaces shall meet BIFMA standard, 22.6” – 48.7”H.

**Adjustable Height – Electrical Applications:**

1. Base shall be electric; pneumatic, crank or pin height adjustment is non-conforming.
2. If enclosed, lifting mechanism shall not decrease kneespace more than 8” underneath unit.
3. Weight capacity shall be minimum of 200 lbs., including top.
4. Height adjustment mechanism:
   i. Adjustment speed shall be a minimum of 1.4” per second.
   ii. Shall operate by touch pad or push button with a minimum of 3 programmable memory settings.
   iii. Mechanism shall have safety stops.
   iv. Motor shall be enclosed and UL or ETL listed.
   v. Mechanism shall have CE mark.
5. All electric components shall be compatible with 230V/50HZ [German][Belgium][Italian] power and manufactured with a Schuko Type F plug.

**Power Module Requirements:**

1. Electrical components shall be manufactured in compliance with NEC regulations and shall be UL approved.
2. Power/Data modules shall be recessed from view and accessed via a touch latch or a hinged or sliding cover.
3. Module shall have CE mark.
4. All electric components shall be compatible with 230V/50HZ [German][Belgium][Italian] power and manufactured with a Schuko Type F plug.

**Wire Management:**

1. Provide concealed wire routing below worksurface.
2. A cable tray or cable clips shall be provided to manage cords.
3. All grommets shall be provided with an insert and cap.

**Flush Mount Brackets:**
1. Flush mount brackets shall be available to connect a worksurface to an adjacent worksurface, providing support and alignment.
2. Flush mount brackets shall employ a two-plate design so the same bracket package can be used for 18", 24", and 30" nominal depth return and bridge worksurfaces.
3. Flush mount brackets shall be constructed of 11-gauge steel.

**Storage Pedestals:**

1. File drawers and box drawers shall be of steel construction.
2. Pedestals shall be freestanding.
3. Pedestals shall fit flush with the front of the worksurface.
4. Suspended pedestals shall be considered non-conforming.
5. Pedestals shall have a fully finished back and full dustpan or bottom to provide a completely enclosed unit.
6. Drawers shall be 5-sided.
7. All box and file drawers shall have ball bearing slides.
8. Drawer fronts shall be 22-gauge steel, minimum, and drawer bodies shall be 22-gauge steel, minimum.
9. Box drawers shall have full access or 90% extension slides, minimum.
10. File drawers shall have full extension slides.
11. All 12" file drawers shall be equipped with rails or high sides for hanging folders front-to-back and side-to-side.
12. Leveling glides shall be standard to adjust height on uneven floors.
13. Mobile pedestals shall be furnished with internal counterbalance weights to prevent instability and tipping.
14. Mobile pedestals shall have at least two swivel casters.
15. Mobile pedestals shall have seat cushions attached with fasteners to the top of the pedestal. Weight cushions are non-conforming.
   a. Shall be load bearing.

**Low Storage Credenza and Slide-Out Storage Tower Units:**

1. The case body is made up of fully finished back, two sides, a top, and a base.
2. The unit shall be equally and fully finished on all interior and exterior surfaces.
3. Units shall have a steel or laminate base. The base is comprised of a lower pan and leveling glides, and shall be welded in the bottom cavity of the cabinet body or in a similar construction.
4. Leveling glides shall provide a minimum 5/8" adjustment.
5. The side panels and back panel shall be either a minimum of 22-gauge steel or laminate.
6. The top and bottom shall be either a minimum of 22-gauge steel or laminate.
7. Top surfaces shall be constructed of a Grade M2 or M3 particleboard or a 45 lb. medium density fiberboard core with a minimum VGS General Purpose Grade High Pressure Laminate on the face and a backer material on the underside.
8. Laminates shall be bonded to the core with a PVA adhesive in a cold press or hot press process to prevent separation of the laminate from the core.
9. The interior and exterior finish of cases shall match if same material.
10. The low storage credenza unit shall have seat cushions attached with fasteners to the top. Weight cushions are non-conforming.
   a. Shall be load bearing.

11. Worksurfaces and tops on casegoods shall be constructed of a Grade M2 or M3 particleboard or a 45 lb. medium density fiberboard core.

12. Worksurfaces and tops on casegoods less than 65”H shall have minimum VGS General Purpose Grade High Pressure Laminate on the face and a backer material on the underside.

13. High pressure laminates shall be bonded to the core with a PVA adhesive in a cold press or hot press process to prevent separation of the laminate from the core.

14. Laminate self-edges shall be considered non-conforming.

Privacy Screens:

1. Screens shall be constructed of a metal frame enclosure with a solid, tackable core.
2. Screens shall be a minimum ¾” thick.
3. Screens shall be no less than 12” high and no more than 24” high, measured from the worksurface to the top of the screen, except as noted in specific item requirements.
4. Each face of fabric–faced screens shall have a single piece of fabric covering stretched over the entire length of the screen. The fabric shall be attached securely and continuously along the entire perimeter of the screen.
5. All horizontal and vertical exposed screen edges shall be finished and trimmed in plastic, steel or other material to minimize fabric wear.
6. Screens shall have vertical stacking capability.
7. Screens shall be non-progressive (i.e., a centrally located screen can be removed without disassembly of neighboring screens) and shall be removable without disturbing or disassembling the desk unit.

WB01-99: Single Bench, Powered/Non-Powered
[Individual Bench] [Overall] Dimensions: 6’-0”W x 6’-0”D

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<th>Researched product lines:</th>
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<td>Manufacturer – Product Line</td>
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Contractor shall:
*Coordinate layout with existing windows, wall-mounted data boxes, etc., as applicable.

Individual Workstation Components:

a. 60”W x 27-30”D Rectangular worksurface
b. 48-60”W x 12-21”H Shared, tackable fabric privacy screen shall attach between facing worksurfaces; refer to floor plan for locations
c. 24-30”W x 12-21”H Intermediate screens between users; screens shall be provided on the left and right of every user
d. 48”W x 18”D Low storage credenza
   i. (1) Box drawer and (1) lateral drawer; locate closest to hybrid storage tower
a. Box drawer shall have (1) pencil tray and (2) full depth drawer dividers for each box drawer
b. Lateral drawer shall have file rails for side-to-side and front-to-back filing and shall accommodate letter, legal and/or other size folders
   ii. Open storage with (1) adjustable shelf, other side
   iii. Full width and full depth upholstered cushion, securely attached
   iv. Counterbalance
   v. Base shall include pedestal feet
   vi. Leveling glides
   vii. Grommet at back of open shelf
e. [18-24]"D Mobile [pencil/box/file] [box/file] pedestal with cushion top and with (1) pencil tray per pedestal and (1) drawer divider for each box drawer
f. [18-24]"D Mobile file/file pedestal
g. Open legs
h. (2) Duplex receptacles located in or below worksurface
   i. Duplex receptacles shall be evenly distributed across worksurface
   ii. Receptacles shall not be located behind storage components
i. (2) Punch outs for data/comm. located in or below worksurface
   i. Punch outs shall not be located behind storage components
j. Cluster shall be hardwired to building power and desks shall be daisy chained
k. Grommets with covers and/or scallops on all worksurfaces or gap at back of worksurface
l. Cable tray and/or clips for wire management below worksurface
m. Refer to floor plans for cluster layouts
n. Locks at all drawers and doors
   i. Item shall be keyed to match adjacent furnishings within each bench
dd. All worksurfaces [and storage fronts] shall be [laminate] [wood veneer]. Storage cases and supports shall be metal

Finish:
  a. High Pressure Laminate: Manufacturer’s standard selection shall include color
  b. Edge: Manufacturer’s standard vinyl/ABS selection shall [match wood grain pattern][coordinate with worksurface color]
  c. Metal: Manufacturer’s standard powder coat paint selection shall include color
d. Pulls: Manufacturer’s standard selection
e. Low Storage Laminate: Manufacturer’s standard selection shall include color
f. Low Storage Fabric: Manufacturer’s standard, woven, stain resistant, mid-grade [patterned, textured, and/or solid] selection; 100,000+ double rubs shall include color
g. Pedestal Fabric: Manufacturer’s standard, woven, stain resistant, mid-grade [patterned, textured, and/or solid] selection; 100,000+ double rubs shall include color
h. Fabric Privacy Screen: Manufacturer’s shall provide a minimum of (5) standard mid-grade selections to include solids and patterns in a variety of neutrals and shall include a full color way of each selection; exact upholstery shall be selected after award and prior to order
i. Intermediate Screen: Manufacturer’s shall provide a minimum of (5) standard mid-grade selections to include solids and patterns in a variety of neutrals and shall
include a full color way of each selection; exact upholstery shall be selected after award and prior to order

3.1 Item No. CL01-99: Single/Dual Sided Bench, Cluster of X
[Cluster] [Overall] Dimensions: 6’-0”W x 6’-0”D

Cluster Components:
  a. (1) TYP-01
  b. (2) TYP-02

4.0 Construction Requirements - Console Systems
[ – NOT USED]

Note: This is not to be composed of office panel systems components.

Warranty Requirements:

  1. 10 year.
  2. 5 year – Laminate.

Testing and Standards:

Items shall be tested in accordance to and comply with the following:

ANSI/BIFMA X5.5-2014 Desk/Table Products

Material
  1. ANSI 208.1-2009 Particleboard Classifications
  2. ANSI A208.2-2009 Medium Density Fiberboard
  3. ANSI/NEMA LD 3-2005 High Pressure Decorative Laminates (HPDL)

General Performance Requirements:

  1. The function of this desk is designed for 24/7 mission critical environment. Standard office panel systems furniture is non-conforming.
  2. The structural foundation of this system is for durable materials that will withstand 24/7 use.
  3. Workstations and modular storage shall be an inclusive system of components that can be easily relocated by end user.
  4. System must accommodate large cabling requirements, as well as, technology equipment requirements. Workstations and storage units shall be designed to facilitate expandability, rearrangement and installation by end user.
  5. This system must be modular in design for ease of reconfiguration and allow for upgrading as technology and cabling changes.
  6. The system shall have a foundation or core that provides an integrated raceway for power supply and data cable management.
  7. The foundation shall be constructed such that movement of the monitor desk from the primary structural foundation is prevented.
8. Structural core/foundation shall be 14-16 gauge steel with an overall open interior space to maximize access to interior space and minimize barriers for internal cabling and wiring.

9. Core shall provide an integrated raceway for power supply, electrical and data cable management.

10. Core/foundation shall have a load rating of 1,200 pounds for double sided and 750 pounds for single sided configurations.

11. Cable management shall segregate power from voice/data cabling and be accessible and have all cable portals embedded with gaskets.

12. Cable portals or cableways shall allow for vertical and horizontal cable management.

13. Panels shall be easily removed and permit service access to the interior of the core.

14. Steel skins shall be designed with vent patterns to permit heat dissipation.

15. System shall be able to allow for continuous lateral cable management.

16. System must include a ventilation system and fans to dissipate heat gain from electronic equipment.

Modular Wall Requirements:

1. Modular walls shall have 14-16 gauge steel frame.

2. Walls shall be fully welded frames.

3. Walls shall include minimum 1” adjustable glides.

4. Walls shall allow for vertical and horizontal continuous cabling for power, voice/data cable management.

5. Walls must accept modular components, i.e. slat wall with cable access panel, rack-mount modules, etc.

6. Walls shall accept exterior wood grain laminate and interior panels of steel.

7. Workstation construction can be a single continuous freestanding unit of attached components.

8. Walls shall be vertically stackable and capable of maximum of 3 tiers.

9. Walls shall support technology integration above the worksurface level.

Worksurfaces:

1. Sit/stand worksurfaces shall be offered in the line. Surfaces shall rise to at least 50” providing an infinite travel range. Lift system shall be motorized with a 1,000 lbs. lifting capacity. Unit shall have a range of 15” for personnel sit/stand functionality.

2. All electrical lines for the sit/stand unit shall have line embedded with gasket to prevent accidental damage.

3. Worksurfaces are supported by a combination of structural uprights, structural screens and brackets.

4. Worksurface shall be available in a straight design. Surface shall be large enough to allow for multiple keyboards, mice and writing surfaces.

5. Worksurfaces shall be constructed of a Grade M2 or M3 wood core material, particle board or medium density fiberboard core with a minimum Grade VGS laminate on the face and a backer material on the underside.

6. Worksurface tops shall be 1 3/16” – 1¼” thick.
7. Laminates shall be bonded to the core with a PVA adhesive in a cold press or hot press process to prevent separation of the laminate from the core.
8. Low pressure laminate and standard thermally fused laminate is nonconforming and will be considered unacceptable.
9. All worksurface edges shall have a high impact vinyl edging material. Vinyl edging shall be a minimum 2 mm thick thermoplastic vinyl extrusion with self-healing properties against abrasion.
10. Worksurface edges shall be sealed on all internal and external surfaces. There shall be no raw or exposed substrate.
11. Laminate self-edges are nonconforming.
12. Workstation fastening shall be threaded steel fasteners and inserts.
13. Worksurface shall have a static load capacity of 300 lbs. and an equipment load capacity of 200 lbs.
14. System shall support an anti-collision safety feature in order to prevent damage or injury. Upon contact with an obstruction, the monitor surface must automatically stop.
15. Console adjustments controls shall be accessible from a seating position for ADA compliance.
16. All moveable components of the console shall be designed and tested to at least 40,000 cycle full range adjustments.

Adjustable Height Worksurfaces:

1. Table top thickness shall be no less than 1”
2. Adjustable height worksurfaces shall have a minimum range of 15”.
3. All electrical lines for the adjustable height unit shall have line embedded with gasket to prevent accidental damage.
4. Adjustable height worksurfaces shall meet BIFMA standard, 22.6” – 48.7”H.

Adjustable Height – Electrical Applications:

1. Base shall be electric; pneumatic, crank or pin height adjustment is non-conforming.
2. If enclosed, lifting mechanism shall not decrease kneespace more than 8” underneath unit.
3. Weight capacity shall be minimum of 200 lbs., including top.
4. Height adjustment mechanism:
   i. Adjustment speed shall be a minimum of 1.4” per second.
   ii. Shall operate by touch pad or push button with a minimum of 3 programmable memory settings.
   iii. Mechanism shall have safety stops.
   iv. Motor shall be enclosed and UL or ETL listed.
   v. Mechanism shall have CE mark.
5. All electric components shall be compatible with 230V/50HZ [German][Belgium][Italian] power and manufactured with a Schuko Type F plug.

Slat wall:
1. Slat wall shall be 6063-T6 extruded aluminum.
2. Must support single or dual articulating monitor arms with heavy rating for flat screen mounting.
3. Shall accommodate lighting and paper management tools.

**Computer Storage Units:**

1. Fixed full-width equipment cavity storage underneath the monitor surface shall be provided for CPU equipment and cable routing, keeping the kneespace below the console unobstructed to allow workers a full range of movement to reach necessary equipment.
2. Side cavities shall be a minimum 24"W x 28"D x 27"H to accommodate front-to-back CPU configuration.
3. Unit shall be vented for passive airflow.
4. Unit shall be accessible from front and rear.
5. Maximum weight capacity for unit shelf shall be at least 25 PSF loads.
6. Side cavities shall have pull-out shelves. Hardware included with the pullouts shelves shall be full-extension, ball bearing construction to provide a rating for a 250 lb. load
7. Front shall have a lockable hinged door with a minimum 96 degree swing and ventilation
8. Unit shall include a box drawer in the top position of the storage unit. This shall include a pencil tray.
9. Box drawer shall be full extension slides to access 100% of the drawer.

**Storage Pedestals:**

1. File drawers and box drawers shall be of steel construction.
2. Pedestals shall be freestanding mobile pedestal
3. Pedestals shall fit flush with the front of the worksurface.
4. Suspended pedestals are non-conforming.
5. Pedestals shall be a completely enclosed unit. All pedestals shall have a fully finished on all sides.
6. Drawers shall be 5-sided.
7. All box and file drawers shall have ball bearing full extension slides.
8. Drawer fronts shall be 22-gauge steel, minimum, and drawer bodies shall be 20-gauge steel, minimum.
9. All 12” file drawers shall be equipped with rails or high sides for hanging folders front-to-back and side-to-side.
10. Mobile pedestals shall be furnished with internal counterbalance weights to prevent instability and tipping.
11. Mobile pedestals shall have at least dual wheel front locking casters.
12. Casters shall have with a minimum of 60 lb. (Dynamic) and 90 lb., (static), load rating.

**WC01-99: Console Station, Powered/Non-Powered**  
[Individual Console] [Overall] Dimensions: 6'-0"W x 6'-0"D
Contractor shall:
*Coordinate layout with existing windows, wall-mounted data boxes, etc., as applicable.

**General Notes:**
- a. Console system shall be designed for 24/7 mission critical environments
- b. System shall be a steel product of a heavy duty frame and components. A standard open plan furniture system is non-compliant
- c. Provide drawings and elevations (that clearly show the location of various materials) of stations with submittal

**Components:**
- a. Console shall be freestanding modular design aesthetic with removable/hinged front and rear panels
- b. Unit shall have a spine wall consisting of core frame 28-30"H
  - i. Exterior tiles shall be laminate and interior tiles shall be ventilated steel
- c. Console shall have multiple horizontal and vertical channels for wire management integrated into core frame
  - i. Horizontal channels shall connect between users. Cables will route through grommets to each console; edges of cut out shall be finished. Raw edges are considered non-conforming; field verify location with user after award prior to order
- d. 60"W x 30"D Laminate top with flat or square vinyl/ABS edge with smooth edges and transitions
  - i. Surfaces shall be height adjustable:
    - a. Minimum of 18” adjustment between 28-48”H
    - b. Legs shall not interfere with kneespace clearance
    - c. Shall be pneumatic or electric; crank or pin height adjustment is non-conforming
- e. Bottom tile and/or core frame shall have cut out or grommet in order to route wires/cables from floor boxes; field verify location with user after award prior to order
  - i. Edges of cut out shall be finished. Raw edges are considered non-conforming
- f. 6-12"H Slat walls located above the worksurfaces
  - i. Shall be able to mount:
    - a. (2) Item number ___
    - b. (3) Single monitor arms with the following requirements:
      - i. Shall be slat wall mount
      - ii. Shall accommodate a minimum of 20 lbs.
      - iii. Arm and monitor shall be able to adjust independently
      - iv. Monitor shall have a rotation of 360 degrees for portrait or landscape viewing
      - v. Quick and easy monitor release

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**Researched product lines:**

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vi. Unit shall be standard with a 75mm and 100mm VESA mounting bracket
vii. Integrated cable management
viii. Arm reach shall be 22” minimum
ix. Shall have a minimum 11 ½” height adjustment
x. Kit shall include all parts necessary to mount a flat panel monitor arm to a slat wall
xi. 10 year warranty
c. (2) Fluorescent or LED task lights:
   i. Arm and shade shall be adjustable without knobs
   ii. Lights shall have an on-off switch integral to the unit and contained within its base or arm
   iii. Fixtures shall contain LED’s or dual compact fluorescent 18 watts
   iv. Lights shall be supplied complete with bulbs
   v. Minimum cord length: 6’
g. 10-12” Spine wall shall be deep enough to contain all cabling
h. (4) Storage areas with hinged or removable panels and ventilated steel to house:
   i. (4) CPUs (User provided, not in contract) at approximately 2.6”W x 9.8”D x 10”H
      a. 18” Separation requirement between (3) classified CPUs and (1) unclassified CPU
   b. Shall be located on a shelf or rack
i. (2) 6-Outlet, minimum, power strips with power cord long enough to reach power source
j. User shall have 18” kneespace, minimum
k. Worksurfaces shall include grommets, scallops, and/or gap large enough to meet cable access requirements
l. Cable trays for wire management below all worksurfaces large enough to meet cable access requirements
m. All worksurfaces shall be laminate. Exterior panels shall be laminate and interior shall be ventilated steel

**Finishes:**
a. High Pressure Laminate Worksurface: Manufacturer’s standard selection shall include color
b. Edge: Manufacturer’s standard vinyl/ABS selection shall [match wood grain pattern][coordinate with worksurface color]
c. Metal: Manufacturer’s standard powder coat paint selection shall include color
d. High Pressure Laminate Panels: Manufacturer’s standard selection shall include color
e. Slat Wall: Manufacturer’s standard selection shall include color

**4.1 Item No. CL01-99: Console Stations, Cluster of X**

[Cluster] [Overall] Dimensions: 6’-0”W x 6’-0”D

**Cluster Components:**
a. (1) TYP-01
b. (2) TYP-02
5.0 Construction Requirements - Demountable Walls [ - NOT USED]

Warranty Requirements:

1. 10 year.
2. 5 year – Laminate.
3. 3 year – Fabrics and other covering materials.

Testing and Standards:
ANSI/BIFMA X5.6-2016-Panel Systems

Panel Glazing
1. Glazed panel inserts shall be comprised of tempered glass in accordance with ANSI Z97.1-2004.
2. Tempered glass shall conform to ASTM C1048-04, Kind FT, Condition A, Type 1, Class 1 Transparent.

Panel Acoustics
1. All panels shall have a minimum sound transfer coefficient (STC) of 38 when tested in accordance with ASTM E-90.
2. The tests shall be conducted on the entire assembled panel, full face area, which includes the complete core, adhesive, decorative fabric, frame, raceway, and joining components.
3. Where provided within the assembly, acoustical panels shall have a minimum noise reduction coefficient (NRC) of 0.65 when tested in accordance with ASTM C423-09a and ASTM E795-05.

Flammability
1. Components shall meet requirements for flame spread and smoke development as specified by NFPA 101.
2. Testing shall be conducted in accordance with either ASTM E84, UL 723, or NFPA 255 on the entire assembled panel and each different combination of fabric and interior construction. In addition, the fabric shall meet the requirements of NFPA 265.
3. Panel flame spread shall not exceed 25 for Class, and panel smoke development shall not exceed 450 for Class A, B, and C.

Electrical System
1. Task lights shall be UL approved and shall meet the requirements of NFPA 70.
2. The electrical system shall meet the requirements of UL 1286.
3. Receptacles shall be 15 amp (NEMA 5-15R) commercial grade conforming to NEMA WD 1 and NEMA WD 6.

Cabling
1. Raceways and interfaces to the raceways shall be designed to accommodate the bend radius as shown in TIA-569-B for Category 6 communication wiring.
Environmental and Sustainability

1. All proposed products shall be certified as compliant with Indoor Air Quality (IAQ) requirements and shall meet or exceed ANSI/BIFMA X7.1-2011 (R2016)-VOC.
2. The product submitted shall have 3rd party certification for IAQ (GREENGUARD or equivalent).
3. The product submitted shall have certification for Indoor Air Quality (Greenguard Gold or equivalent).

The completed installation shall comply with NFPA 70 and NFPA 101.

General Requirements:

1. Provide modular walls complete with finished floor and ceiling channels, vertical support framing, glazing framing and stops, anchorage and accessories for complete, stable installation. Although such work is not specifically indicated, furnish and install all supplementary or miscellaneous items, appurtenances and devices incidental to, or necessary for, sound, secure, and complete installation.
2. The movable wall system shall offer maximum flexibility and reusability to accommodate frequent and quick relocation work without loss of materials, damage or modification to panels or to adjoining structures such as ceilings, fixed walls and floors.
3. The factory assembled system shall be unitized non-progressive and modular, allowing the removal of individual panels from any location without disturbing adjoining units and providing interchangeability of panels and door units on the same module.
4. Wall system shall be monolithic and be between 2.5”-4.00” thick of a metal frame construction.
5. Frames shall be extruded aluminum and have electrostatic application of paint-like coating, then baked and cured. The paint coating shall conform to the Aluminum Association Specification R-10.
6. Head detail shall be recessed or flush.
7. Base assembly shall have an integrated leveling system permanently attached to the system.
8. Provide wall starters and all other necessary components and hardware for a complete, safe, stable, and secure installation.
9. The solid panels shall be available in a choice of finishes and substrates to include powder coated steel, vinyl-covered steel, fabric covered substrate, glass, or markerboard.
10. Factory assembled movable walls shall be flexible to accommodate the building conditions. The demountable wall shall have vertical adjustability.
11. At the floor, a self-contained leveling glide system and a flush base cover shall have an adjustment of 1 ½” – 2” to compensate for ceiling and/or floor irregularities.
12. Where the wall system meets the building core walls, columns or window mullions, a telescopic, spring-loaded wall post or u-channel shall allow for a minimum ±1” horizontal adjustment.
13. All products shall be able to accommodate incremental sizes to a 1/16” increment.
14. Compatible modular power shall be provided and can terminate within the solid wall panel and base areas of both glass and solid panels.
15. All modular power connections within solid walls cavities and base areas shall be accessible for inspection before, during and after installation.
16. Walls shall be able to be field retrofitted to accept additional modular power outlets and conventional hardwired electrical outlets, fire/life safety, ADA strobes devices, thermostats and access security hardware and devices without complete wall section removal.
17. Doors and door hardware shall be ADA compliant and be glass, laminate or wood veneer finish. Door shall include frames and all necessary hardware.
18. Aluminum door frames shall be assembled plum and square. Frames are to be prepared for hardware including proper reinforcing, drilling and tapping. Miters at corners of frames shall be anchored with concealed clips. Frames must include soft vinyl bulb-type light and sound seal.
19. Sections shall be installed plumb and square with all connections securely clipped. Intersections with head conditions shall be mitered where possible. Sill sections shall have removable, flush stops.
20. System shall be capable of supporting connection to partial height panel systems.
21. Follow all local and national codes with special attention to HVAC, lighting and sprinkler requirements.
22. The wall system shall be capable of structurally supporting multiple-hung appurtenances, including, but not limited to, cantilevered worksurfaces, fully loaded shelves, files, and other components, as well as allow unlimited off-module horizontal attachment locations for these components.
23. Wall supported components shall have a positive integral locking device which secures the components without the use of additional screws or clamps.
24. The wall system shall be able to integrate with the manufacturer’s other products.
25. Frames shall allow the sharing of vertical elements between adjacent panels.
26. Wall tiles/inserts shall be replaceable in the field and be removable without tools to allow for internal access to the panel frame, telecommunications and data cabling.
27. The removal of surfaces shall be accomplished without disassembling the workstation and/or panel run.
28. Each fabric faced wall tile/insert shall have a seamless width of fabric stretched over the entire surface of the cover. The color used for each fabric shall be from the same dye lot.
29. Tackable/Acoustical fabric walls shall have steel frames or steel reinforced edges with tackable fiber filler.
30. Fabrics shall be factory installed on initial installation.
31. Frames shall have preassembled steel hangers with slots at 1”- 1½” increments for suspension of worksurfaces and shelf storage. Panel supported components shall have a positive integral locking device.
32. The base trim shall have knockouts for power and communication terminations and shall have fillers to close any unused openings.

**Cabling:**
1. Construction of the panel shall allow for the storage of excess cabling inside the panel cavity.
2. The wall system shall have the ability to exit wires from the top of the panel when power poles are required or power is run from the ceiling.
3. Vertical wire management within the panel shall be available which will allow cables to be routed from the top cable cavity to the base and vice-versa.
4. Base power feeds shall be provided.
5. Cables which run through the metal frame shall be protected by the frame’s construction and shall not interfere with the ability to hang components.
6. Lay-in cable routing shall be accommodated in the base and/or the top of every wall.
7. All panels shall be able to accommodate a minimum of (40) 0.25” diameter cables at 40% fill.
8. Cables shall be able to be routed through the base.

Power and Data:

1. The electrical system shall be capable of reconfiguration without the need for an electrician. Licensed electricians shall be used for hardwire connections of only base and top cap feeds.
2. All base power-ins shall come with flexible liquid tight conduits.
3. The base raceway shall be able to accommodate duplex outlets in a back-to-back configuration.
4. Phone and data components shall be available as part of the system.
5. Power access shall be available within the panel at the base. Power poles shall be available for routing power and cables from the ceiling.
6. There shall be a metal separation within the power pole or verticals between telephone and data cabling from general power requirements.
7. The power system shall be available with both shared and separate neutral wiring schematic options to better match up to existing building power systems.
8. Power components are color-coded and keyed for safety.
9. Panels shall offer no less than three wiring schematic choices: 2 + 2, 8 wire, 4 circuit; 3+1, 8 wire, 4 circuit; and 3 separate Neutrals, 8 wire, 3 circuit. Other options are acceptable, but shall work with the power supplied on site from the electrical closet and panel boards. Contractor shall be responsible for coordinating circuit schematics with what is on site.
10. 15-Amp receptacles shall be interchangeable for power ways.
11. Power receptacles shall snap into power kits on one side of the panel or on both sides. Receptacles shall be able to be added or moved as needed.
12. Cable trays shall consist of steel channels which are field installed between two vertical elements for additional support within the frame.
13. If power harnesses are used, they shall be shielded to avoid electrical interference with communication cabling.
14. Cabling terminations shall not utilize any of the power access locations within the panel's base.

Hinged Doors:
1. Doors shall not swing out into an aisle that is a main means of egress.
2. Doors shall be 1½” – 2½” thick.
3. The door’s construction shall be 5-ply with a honeycomb core.
4. Doors shall be right or left handed and cannot be changed in the field. Refer to floor plans for handedness.
5. Door shall have a minimum of (3) hinges.
6. Door shall include a factory installed lockset consisting of a lever handset with an outside keyhole and inside lock button.
7. Locksets shall meet ADA guidelines.
8. Follow manufacturer’s requirements for maximum stability.
9. Glazing in doors shall conform to ADA guidelines.

Execution:

1. Demountable panels shall be factory assembled, flush, hollow unit construction; with faces smooth and free of buckles, oil canning, and seams; and insulated with solidly packed, formaldehyde free insulation.
2. Panels shall be fabricated for installation with fastening devices and pressure-fit components that will not damage ceiling or floor coverings. Fabricate panels with continuous light-and-sound seals at floor, ceiling and other locations.
3. Components shall not damage ceiling or floor coverings.
4. Follow manufacturer’s printed installation and preparation instructions for project.
5. Install demountable partition systems rigid, level, plumb, and aligned.
6. Install seals to prevent light and sound transmission at connections to floors, ceilings, fixed walls, and abutting surfaces.
7. Install each demountable partition so surfaces vary no more than 1/8 inch from the plane formed by the faces of adjacent partitions.
8. Do not alter ceiling suspension system.
9. Install door-and-frame, solid panel and frame, and glazing-and-glazing-frame assemblies securely anchored to partitions and with doors aligned and fitted.
10. Install and adjust door hardware for proper operation.

5.1 Item No. WD01-99: Demountable Wall Assembly, Cluster of 4
Overall Dimensions: 20’-3”W x 13’-9”D x 10’-0”H
Individual Office Dimension: 9’-9”W x 13’-9”D x 10’-0”H

*Demountable wall assemblies shall be capable of mounting TVs. Provide (1) mounting bracket at room ______.

Contractor shall:
*Coordinate TV locations with customer prior to ordering.
*Provide shop drawings and coordinate approvals with end user for all demountable wall assemblies post award and prior to order.

Researched product lines:
Manufacturer – Product Line
**Manufacturer – Product Line**

**General Requirements:**

a. Provide demountable walls to form (1) office and (1) conf. room, refer to plan
b. Segmented tackable, acoustical panels with glass clerestory; clerestory shall run entire length of perimeter walls, including above door location
c. Segmented tackable, acoustical panels located between office and conf. room
   i. At office, provide 36-48”W back painted glass tile for dry erase marker use
      a. Locate on west wall and span between hybrid storage cabinet and sidelight
      b. Height shall span between worksurface height and top of hybrid storage cabinet
      c. Marker tiles are non-conforming
   ii. At conf. room, provide 48-60”W back painted glass tile for dry erase marker use
      a. Locate on west wall
      b. Height shall span between worksurface height and top of hybrid storage cabinet
      c. Marker tiles are non-conforming
d. Porcelain or steel markerboard insert shall include
   i. Marker tray accessory
   ii. (4) Dry erase markers
   iii. (1) Set of rare earth magnets, (4) minimum
e. (1) Hinged door per room
   a. Lever door handle with an outside keyhole and inside lock button
   i. Coordinate keying with end user after award and prior to order
f. (1) 12”W Sidelight at office and (1) 18”W sidelight at conf. room shall span from floor to clerestory above
g. (5) Duplex receptacles, minimum located in office and conference room. Coordinate location with end user after award
   i. Duplex receptacles shall be evenly distributed
   ii. (4) Duplex receptacles per office and conference room
   iii. (1) Duplex receptacle near TV mount
h. (4) Punch outs for data/comm. Coordinate location with end user after award
   i. (1) Punch outs for data/comm. located near TV mount
   ii. (4) Punch out for data/comm. located in wall base
i. Provide light switches and all hardwired electrical terminations required; locate adjacent to door opening on latch side
j. Provide end channels that attach to building structure and hold panels securely in place. Include light and sound seals between channel and building structure
k. Refer to provided floor plans for layout and shared walls

**Finish:**

a. Panel Fabric: Manufacturer’s full range of standard mid-grade fabric for selection by end user after award and prior to order
b. Frame Finish: Manufacturer’s standard powder coat paint selection shall include a variety of paint in smooth, textured and metallic finishes
c. Door Finish: Manufacturer’s standard selection shall include a variety of veneers and/or wood grain laminates
d. Door Hardware: Manufacturer’s standard selections
  e. Markerboard Tile: Manufacturer’s standard selection shall include white
  f. Glass: Manufacturer’s standard selection shall include clear and frosted
  g. Ceiling/Base Track and Base Trim: Manufacturer’s standard powder coat paint selection shall include a variety of paint in smooth, textured and metallic finishes
  h. Light Switch: Manufacturer’s standard selection

6.0 Construction Requirements - Freestanding Integrated Desk Systems [– NOT USED]

Warranty Requirements:

1. 12 year.
2. 5 year – Laminate.
3. 3 year – Fabrics and other covering materials.

Modularity Requirements:

All desk components shall be provided by one manufacturer. All items shall meet the specified flexibility and interchangeability requirements of the desk solutions. Furniture is to be modular and non-handed so components can be used anywhere within the facility. Units which are selectively removable and replaceable without disturbing adjacent components shall be provided.

Testing and Standards:

ANSI/BIFMA X5.5-2014 Desk/Table Products
ANSI/BIFMA X5.9-2012 Storage Units

Worksurface Material
1. ANSI 208.1-2009 Particleboard Classifications
2. ANSI A208.2-2009 Medium Density Fiberboard
3. ANSI/NEMA LD 3-2005 High Pressure Decorative Laminates (HPDL)

Electrical System
1. Task lights shall be UL approved and shall meet the requirements of NFPA 70.
2. The electrical system shall meet the requirements of UL 1286.
3. Receptacles shall be 15 amp (NEMA 5-15R) commercial grade conforming to NEMA WD 1 and NEMA WD 6.

Cabling
1. Raceways and interfaces to the raceways shall be designed to accommodate the bend radius as shown in TIA-569-B for Category 6 communication wiring.

Environmental and Sustainability
1. All proposed products shall be certified as compliant with Indoor Air Quality (IAQ) requirements and shall meet or exceed ANSI/BIFMA X7.1-2011 (R2016)-VOC.
2. The product submitted shall have certification for IAQ (GREENGUARD or equivalent).

3. The product submitted shall have certification for Indoor Air Quality (Greenguard Gold or equivalent).

The completed installation shall comply with NFPA 70 and NFPA 101.

General Requirements:

1. System shall provide a fully integrated freestanding solution of components and accessories required to solve the furniture requirements. Products must be fully compatible and interchangeable with each other. All components shall be modular and have flexibility so that components can be used with regard to space, power and data, wire management, and storage without the use of components or equipment not within the product offering.

2. Although such work is not specifically indicated, furnish and install all supplementary or miscellaneous items, appurtenances and devices incidental to, or necessary for, sound, secure, and complete installation. Freestanding units shall include a worksurface, floor supports/legs, corner supports, back and modesty panel(s), and accommodations for cords and cables. All structural components shall be steel with a powder coat finish.

3. A freestanding steel furniture system (no panel dependence) shall be based on desk-like products that are linked together and powered to provide planning options similar to panel-based stations.

4. Desk based workstations shall permit easy assembly and disassembly. Back-to-back workstations shall be assembled so that components may be completely removed from one side without disturbing or disassembling the other side.

5. Non-powered primary raceways or channels shall be capable of field conversion to powered primary raceways without requiring units to be dismantled or removed from the workstation cluster.

6. Metal wireway, channel or trough shall be an integral wireway or channel manufactured as a permanent part of the desk structure and not an accessory item added to the desk.

7. Wireway or channel shall exit at both ends of the structure to pass electrical and communication wiring to next module.

8. Desk based workstations shall have no “creep”.

9. Freestanding units shall be specified complete with no exposed or “raw” parts. Include available covers, fillers and trims available in standard GSA specifications guide to provide for a complete and finished appearance and function.

10. Freestanding units shall have components that include a worksurface, power/data wireway, channel or trough, floor supports, end supports, back panel, and accommodations for concealing cords and cables. Additional components shall accommodate the storage and privacy requirements.

11. The worksurface height shall be 28 1/2” to 30” from the finished floor.

12. Freestanding unit end supports shall provide a flush termination at the exposed end of the freestanding unit.
13. Freestanding unit leveling glides shall adjust to allow installation on uneven floors. Minimum adjustment range shall be 1 ½”.

14. Powered desk components, style, and finish shall match other non-powered metal/laminate desk components.

**Electrical and Data:**

1. Provide an integral wireway, channel or trough for electrical components, and a wire management system under the worksurface and above any base raceway.

2. Desk system shall offer no less than three wiring schematic choices: 2+2, 8 wire, 4 circuit; 3+1, 8 wire, 4 circuit; 3 separate neutrals, 8 wire, 3 circuit. Other options are acceptable, but must work with the power supplied on site from the electrical closet and panel boards. Bidder is responsible for coordinating circuit schematics, unless noted otherwise in item descriptions.

3. 15 Amp receptacles are required unless otherwise noted in item descriptions, and shall be interchangeable for power ways. All receptacles shall be easily identified by line/circuit identification numbers and code.

4. Electrical distribution shall be flexible steel shielded conduits or enclosed shielded raceways, and shall be continuous non-interrupted raceways or power harnesses.

5. Add-on power strips shall be considered non-conforming.

6. All desks and supports shall provide an integral horizontal raceway system below the worksurface.

7. Raceway channels shall be designed to permit easy access to the raceway when required.

8. Power shall pass from station to station in a cluster from a single power feed location and not require individual power feeds for each desk.

9. Non-powered raceways shall be capable of field conversion to powered raceways without requiring desks to be dismantled or removed from the cluster.

**Worksurfaces:**

1. Worksurfaces shall be constructed of a Grade M2 or M3 particleboard or a 45 lb. medium density fiberboard core with a minimum VGS General Purpose Grade High-Pressure Laminate on the face and a backer material on the underside.

2. Laminates shall be bonded to the core with a PVA adhesive in a cold press or hot press process to prevent separation of the laminate from the core.

3. Low pressure laminate and thermally fused laminate shall be considered nonconforming.

4. Worksurface edges shall be totally finished and sealed against moisture with a flat edged, impact resistant vinyl/ABS or similar plastic, have a radius of at least 1/8”, and thickness of 2 – 3 mm.

5. Both ends of any edge banding shall be pinned or otherwise secured to prevent loosening at the ends.

6. Laminate self-edges shall be considered nonconforming.

7. Abutting worksurfaces shall mate closely with metal-to-metal connections and at equal heights when used in side-by-side configurations in order to provide a continuous and level worksurface.
8. Worksurfaces shall include predrilled location holes with threaded metal inserts for metal-to-metal connections that ensure accurate and secure attachment of desk supports, storage products and legs.

**Modesty Panels and End Supports:**

1. Modesty panels shall be constructed of 22-gauge steel pans with removable 16-gauge attachment brackets for attachment to end supports, peninsula supports and corner supports.
2. Modesty panels shall span the entire width of the worksurface.
3. Inside support design shall make the horizontal installation of data/telecom cabling under surfaces and between adjacent units fast, simple and with a minimal chance of cable damage.
4. End supports shall provide a flush termination at the exposed end of the freestanding unit.
5. Provide leveling glides that adjust to allow installation on uneven floors.
6. Gauges of steel shall be as follows:
   a. End Support/Legs: 18 to 22-gauge steel.
   b. Back/End Panel: 17 to 22-gauge steel.
   c. Inside Support Brackets: 13 to 14-gauge steel.

**Corner Worksurface Supports:**

1. Supports shall reinforce the back of any corner worksurface.
2. Corner supports shall be constructed of an 18-gauge outer skin welded to 13-gauge top and bottom brackets and a stiffening channel. The bottom bracket shall allow for the attachment of a threaded glide.
3. Supports shall not interfere with kneespace.

**Storage Pedestals:**

1. Pedestals shall be non-handed and of steel construction with powder coat finish.
2. Pedestals shall have a fully finished back and full dustpan or bottom to provide a completely enclosed unit.
3. Pedestals shall fit flush with the front of the worksurface.
4. Pedestals shall be freestanding, unless otherwise noted in item descriptions. Freestanding pedestals shall fit tightly against the bottom of the worksurface with no gaps.
5. Suspended pedestals shall be considered nonconforming.
6. Drawers shall be 5-sided.
7. Drawer fronts shall be 22-gauge steel, minimum, and drawer bodies shall be 22-gauge steel, minimum.
8. Drawer fronts shall be removable and replaceable in the field.
9. All box and file drawers shall have ball bearing suspensions and include anti-rebound mechanisms insuring drawers shall close smoothly and quietly.
10. Box drawers shall have full access or minimum 90% extension suspensions.
11. File drawers shall have full extension suspensions.
12. All 12" file drawers shall be equipped with rails or high sides for hanging folders front-to-back and/or side-to-side.
13. Each drawer shall contain a safety catch to prevent accidental removal when drawer is fully open.
14. Leveling glides shall be standard to adjust height on uneven floors.
15. Mobile pedestals shall be furnished with internal counterbalance weights to prevent instability and tipping.
16. Mobile pedestals shall have at least two swivel casters.
17. Mobile pedestals shall have [finished metal tops.] [seat cushions attached with fasteners to the top of the pedestal.]

**Overhead Storage:**

1. Overhead storage unit shall be 5-sided with a door and fully enclosed back.
2. Overhead unit shall be supported by stanchions or columns of metal construction. Hutch units or end panel supported units are non-conforming and not acceptable.
3. The underside of all shelf units and flipper door cabinets shall have the same finish as the end support columns and shall accommodate the attachment of task lights.
4. The vertical clearance between the worksurface and overhead shall be a minimum of 18".
5. The inside clearance depth shall accommodate a 3-ring binder for 8.5" x 11" paper and shall be a minimum overall depth of 12". The door shall fully close.
6. The minimum inside height clearance shall be 12".
7. Overhead storage unit shall be of steel construction in the following gauges:
   a. Shelves shall be 18 to 22-gauge steel.
   b. End panels shall be 16 to 18-gauge steel.
   c. Tops shall be 20 to 22-gauge steel.
   d. Doors shall be 20 to 24-gauge steel.
   e. Backs shall be 20 to 24-gauge steel.

**Privacy Screens:**

1. Screens shall be constructed of a metal frame enclosure with a solid, tackable core.
2. Screens shall be a minimum ¾" thick.
3. Screens shall be no less than 15" high and no more than 24" high, measured from the worksurface to the top of the screen, except as noted in specific item requirements.
4. Each face of fabric–faced screens shall have a single piece of fabric covering stretched over the entire length of the screen. The fabric shall be attached securely and continuously along the entire perimeter of the screen.
5. All horizontal and vertical exposed screen edges shall be finished and trimmed in plastic, steel or other material to minimize fabric wear.
6. Screens shall have vertical stacking capability.
7. Screens shall be non-progressive (i.e., a centrally located screen can be removed without disassembly of neighboring screens) and shall be removable without disturbing or disassembling the desk unit.
Task Lighting:

1. Task lights shall be a standard component of the manufacturer's furniture products.
2. Task lights shall recess into the bottom of overhead cabinets and shelves.
3. Task lights shall have structurally sound mounting devices which present accidental displacement, but allows easy removal and replacement when necessary.
4. Task lights for 72” wide and greater overhead storage bins shall be no less than 46” wide.
5. All other task lights shall be sized appropriately for the overhead storage bin.
6. LED task lights shall have a minimum 50,000-hour life span and 3500K color temperature.
7. Depending on the task light length, LED Color Rendering Index (CRI) shall range from 83-84.
8. Electronic ballasts shall be provided to eliminate fluorescent lamp flicker and computer screen interference. Ganged fixtures or shared ballasts shall not be used.
9. Task lights shall provide glare control.
10. Task light reflectors shall only be white.
11. Task lights shall have an easily accessible on-off switch.
12. Daisy chain cords shall be available for the modular connection of shelf lights.
13. Fluorescent lamps shall be Energy Star rated.
14. All fixture diffusers, grilles or other coverings shall be easily removable to permit cleaning and replacement.
15. Task lights shall be UL or ETL listed and labeled.
16. Task lights shall have CE mark.

6.1 Item No. WS01-99: Freestanding Integrated L-Shaped Desk, Metal/Laminate, Powered

Overall Dimensions: 6’-0”W x 6’-0”D

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<tr>
<th>Researched product lines:</th>
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<td>Manufacturer – Product Line</td>
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Contractor shall:
*Confirm handedness in field.

*Coordinate layout with existing windows, wall-mounted data boxes, etc., as applicable.

Individual Components:

a. 48”W x 24”D x 72”W Extended curved corner peninsula worksurface with column leg support
b. 72”W x 30”D Rectangular desk
   i. [18-24]”D Mobile [pencil/box/file] [box/file] pedestal with cushion top and with (1) pencil tray per pedestal and (1) drawer divider for each box drawer
   ii. Partial height modesty panel
c. 48”W x 24”D Rectangular [return][bridge]
   i. [18-24]”D Mobile file/file pedestal
ii. Partial height modesty panel
d. **72”W Stanchion mounted overhead storage bin with flipper doors**, mounted above return/credenza
   i. Doors shall [recede into the case] [open over the case]
   ii. Overhead storage bin shall have dividers or bookends that attach securely to the bin
   iii. Provide energy efficient [task] [LED] lighting with vertical cord manager and power cord long enough to reach power source
      1. Provide task light with occupancy sensor; sensor shall be installed facing user
   iv. Full width and full height tack board finished on all sides below upper storage components
   v. When exposed, the back of the unit shall be fully finished and match the finish on the front

e. Provide (1) data outlet, (1) voice outlet (punch out with finished bezel) and (4) duplex outlets (3 general purpose and 1 dedicated circuit configuration) per desk located as follows: general power and data/comm. shall be at desk height in the stanchions or below the worksurface per manufacturer’s standards [Outlets and data/comm. boxes cannot interfere with desktop equipment. Verify with end user after award of RFQ]
f. (2) Outlets minimum for corner worksurface, (1) on extended corner worksurface and (1) at rectangular worksurface. Receptacles shall not be located behind storage components.
g. Power connections shall be hardwired to the building power source
h. Cluster shall be hardwired to building power and each cluster of desks daisy chained
i. Refer to provided floor plans for cluster layout
j. Grommets with covers on all worksurfaces; one per worksurface locations shall be determined after award
k. Cable trays or wireway for wire management below all worksurfaces
l. Style of all end panels shall [be fully enclosed] [have open frames] [legs]
m. Locks at all drawers and doors
   i. Item shall be locking, keyed to match adjacent furnishings within the desk [room, space, area]
n. All worksurfaces [and storage fronts] shall be laminate. Storage cases and supports shall be metal

**Finish:**
a. High Pressure Laminate: Manufacturer’s standard selection shall include color
b. Edge: Manufacturer’s standard [vinyl/ABS] [solid wood] selection shall [match wood grain pattern][coordinate with worksurface color]
c. Metal: Manufacturer’s standard powder coat paint selection shall include color
d. Pulls: Manufacturer’s standard selection
e. Tack board Fabric: Manufacturer’s standard mid-grade selection shall include color
f. Pedestal Fabric: Manufacturer’s standard, woven, stain resistant, mid-grade [patterned, textured, and/or solid] selection; 100,000+ double rubs shall include color

7.0 **Construction Requirements - Metal/Laminate Desks** [ – NOT USED]
Warranty Requirements:

1. 12 year.
2. 5 year – Laminate.

Modularity Requirements:

All desk components shall be provided by one manufacturer. All items shall meet the specified flexibility and interchangeability requirements of the desk solutions. Furniture is to be modular and non-handed so components can be used anywhere within the facility. Units which are selectively removable and replaceable without disturbing adjacent components shall be provided.

Testing and Standards:

ANSI/BIFMA X5.5-2014 Desk/Table Products
ANSI/BIFMA X5.9-2012 Storage Units

Worksurface Material
1. ANSI 208.1-2009 Particleboard Classifications.
2. ANSI A208.2-2009 Medium Density Fiberboard.

Environmental and Sustainability
1. All proposed products shall be certified as compliant with Indoor Air Quality (IAQ) requirements and shall meet or exceed ANSI/BIFMA X7.1-2011 (R2016)-VOC.
2. The product submitted shall have certification for Indoor Air Quality (GREENGUARD or equivalent).
3. The product submitted shall have certification for Indoor Air Quality (Greenguard Gold or equivalent).

General Requirements:

1. Freestanding units shall have components that include a worksurface, floor supports, end supports, back panel, and accommodations for concealing cords and cables.
2. Freestanding units shall be specified complete with no exposed or “raw” parts. Include available covers, fillers and trims available in the standard GSA specifications guide to provide for a complete and finished appearance and function.
3. Worksurfaces shall be fully supported by floor-standing pedestals or other supports such as brackets, legs, panels, etc., following the manufacturer’s standard practices for the size, type and placement. Size and placement of supports shall not interfere with kneeskpace clearances. All pedestals and supports shall be clearly indicated, including model numbers, on the drawings or in a components listing.
4. The worksurface height shall be 28½” to 30” from the finished floor.
5. Freestanding unit end supports shall provide a flush termination at the exposed end of the freestanding unit.
6. Freestanding unit leveling glides shall adjust to allow installation on uneven floors. Minimum adjustment shall be 7/8”.

Worksurfaces:

1. Worksurfaces shall be constructed of a Grade M2 or M3 particleboard or a 45 lb. medium density fiberboard core with a minimum VGS General Purpose Grade High Pressure Laminate on the face and a backer material on the underside.
2. Laminates shall be bonded to the core with a PVA adhesive in a cold press or hot press process to prevent separation of the laminate from the core.
3. Low pressure laminate and thermally fused laminate shall be considered non-conforming.
4. Worksurface edges shall be totally finished and sealed against moisture with a flat edged, impact resistant vinyl/ABS or similar plastic, have a radius of at least 1/8”, and be 2mm – 3mm thick.
5. Laminate self-edges shall be considered non-conforming.
6. The grain direction on straight and extended corner worksurfaces shall run parallel to the long dimension of the worksurface, and shall have a visual balance in the wood grain pattern in both width and depth.
7. Abutting worksurfaces shall mate closely and at equal heights when used in side-by-side configurations in order to provide a continuous and level worksurface.
8. Worksurfaces shall include predrilled location holes that ensure accurate and secure attachment of desk supports, storage products and legs.

Wire Management:

1. Provide concealed wire routing below worksurface.
2. A cable tray or cable clips shall be provided to manage cords.
3. All grommets shall be provided with an insert and cap.

Modesty Panels and End Supports:

1. Modesty panels shall be designed to accommodate access to wall outlets 18” from floor.
2. Modesty panels shall be constructed of 22-gauge steel pans with removable 16-gauge attachment brackets for attachment to end supports, peninsula supports and corner supports.
3. Modesty panels shall span the entire width of the worksurface or attach to pedestal backs leaving no gaps.
4. End supports shall be constructed of 22-gauge outer and inner pans welded to no less than 14-gauge brackets at the top and bottom.
5. Partial height modesty panels shall be no less than 6” in height.

Peninsula Supports:
1. Peninsula supports shall provide the attachment of a modesty panel directly below the centerline of the worksurface, spanning the full distance from the peninsula support to the column support.
2. Peninsula support panels shall be constructed of 22-gauge outer and inner pans.

**Corner Worksurface Supports:**

1. Supports shall reinforce the back of any corner worksurface.
2. Corner supports shall be constructed of an 18-gauge outer skin welded to 13-gauge top and bottom brackets and a stiffening channel. The bottom bracket shall allow for the attachment of a threaded glide.
3. Supports shall not interfere with kneespace.

**Flush Mount Brackets:**

1. Flush mount brackets shall be available to connect a return or bridge worksurface to the front edge of another worksurface, providing support and alignment.
2. Flush mount brackets shall employ a two-plate design so the same bracket package can be used for 18”, 24”, and 30” nominal depth return and bridge worksurfaces.
3. Flush mount brackets shall be constructed of 11-gauge steel.

**Storage Pedestals:**

1. File drawers and box drawers shall be of steel construction.
2. Pedestals shall be freestanding.
3. Pedestals shall fit flush with the front of the worksurface.
4. Suspended pedestals shall be considered non-conforming.
5. Pedestals shall have a fully finished back and full dustpan or bottom to provide a completely enclosed unit.
6. Drawers shall be 5-sided.
7. All box and file drawers shall have ball bearing slides.
8. Drawer fronts shall be 22-gauge steel, minimum, and drawer bodies shall be 22-gauge steel, minimum.
9. Box drawers shall have full access or 90% extension slides, minimum.
10. File drawers shall have full extension slides.
11. All 12” file drawers shall be equipped with rails or high sides for hanging folders front-to-back and side-to-side.
12. Leveling glides shall be standard to adjust height on uneven floors.
13. Rubber bumpers cushion drawer opening and closing for quiet operation.
14. Mobile pedestals shall be furnished with internal counterbalance weights to prevent instability and tipping.
15. Mobile pedestals shall have at least two swivel casters.
16. Mobile pedestals shall have [finished metal tops.] [seat cushions attached with fasteners to the top of the pedestal.]

**Overhead Storage Units:**
1. The vertical clearance between the worksurface and the overhead shall be a minimum of 18".
2. The total height of a desk with overhead storage shall match the height of adjacent storage products including storage towers.
3. Units shall be capable of spanning two worksurfaces arranged in an "L" configuration, with one end mounted at the front edge of one worksurface and the other end mounted at the back edge of the other worksurface.
4. Units shall be capable of being mounted on corner and extended corner worksurfaces.
5. Units shall be attached securely with concealed cam-locks, brackets, screws, and/or industrial strength double stick tape, to ensure a rigid assembly.
6. The inside clearance depth shall accommodate a 3-ring binder for 8.5" x 11" paper and shall be a minimum overall depth of 12". The door shall fully close.
7. The minimum inside height clearance shall be 12".
8. Units shall be 5-sided with a door and fully finished enclosed back.
9. Units shall be of steel construction in the following gauges:
   a. Shelves shall be 18 to 22-gauge steel.
   b. Tops shall be 20 to 22-gauge steel.
   c. Doors shall be 20 to 24-gauge steel.
   d. Backs shall be 20 to 24-gauge steel.

**Task Lighting:**

1. Task lights shall be a standard component of the manufacturer's furniture products.
2. Task lights shall recess into the bottom of overhead cabinets and shelves.
3. Task lights for 72"W, and greater, overhead storage bins shall be the no less than 46"W.
4. All other task lights shall be sized appropriately for the overhead storage bin.
5. LED task lights shall have a minimum 50,000-hour life span and 3500K color temperature.
6. Depending on the task light length, LED Color Rendering Index (CRI) shall range from 83-84.
7. Electronic ballasts shall be provided to eliminate fluorescent lamp flicker and computer screen interference. Shared ballasts shall not be used.
8. Task lights shall provide glare control.
9. Task lights shall have an easily accessible on-off switch.
10. Daisy chain cords shall be available for the modular connection of shelf lights.
11. All fixture diffusers, grilles or other coverings shall be easily removable to permit cleaning and replacement.
12. Task lights shall be UL or ETL listed and labeled.
13. Task lights shall have CE mark.

### 7.1 Item No. D[U] [L] [S] [D]01-99: Freestanding [[L] [U]-Shaped] [Single Pedestal] [Double Pedestal] Desk, Metal/Laminate
Overall Dimensions: 6'-0"W x 6'-0"D

**Researched product lines:**
Contractor shall:

* Confirm handedness in field.

* Coordinate layout with existing windows, wall-mounted data boxes, etc., as applicable.

**Components:**

a. **72”W x 30”D Rectangular desk with overhang**
   - 30”D Box/box/file pedestal with (1) pencil tray per pedestal and (1) drawer divider for each box drawer
   - [Full height] [Partial height] modesty panel
b. **72”W x 30”D Peninsula worksurface with column support**
   - [18-24]”D Mobile [pencil/box/file] [box/file] pedestal with cushion top and with (1) pencil tray per pedestal and (1) drawer divider for each box drawer
   - Partial height modesty panel
c. **42”W x 24”D Rectangular [return][bridge]**
   - 24”D File/file pedestal
   - [18-24]”D Mobile file/file pedestal
   - 30”W 2-Drawer lateral file with rails to provide side-to-side and front-to-back filing and shall accommodate letter, legal or other size folders
   - [Full height] [Partial height] modesty panel
d. **72”W x 24”D Rectangular credenza**
   - 24”D File/file pedestal
   - [Partial height] [Full height hinged or removable] [No] modesty panel
e. **72”W Overhead storage unit with [flipper] [sliding] doors, mounted above return/credenza**
   - Shall have an [in the case] [over the case] door
   - Flipper doors shall have a soft closing, or similar, mechanism
   - Center stanchion supports are not acceptable
   - When exposed, the back of the unit shall be fully finished and match the finish on the front
   - Overhead storage bin shall have dividers or bookends that attach securely to the bin
   - Provide energy efficient [task] [LED] lighting with vertical cord manager and power cord long enough to reach power source
      - 1. Provide task light with occupancy sensor; sensor shall be installed facing user
   - Full width and full height tack board below upper storage components
f. **Paper management accessories:** (2) pencil cups, (2) diagonal paper sorters
g. **Grommets with covers on all worksurfaces**
h. **Cable trays and/or clips for wire management below all worksurfaces**
i. **Style of all end panels shall** [be fully enclosed] [have open frames] [legs]
j. **Locks at all drawers and doors**
   - Item shall be keyed to match adjacent furnishings within the [room, space, area]
k. All worksurfaces [and storage fronts] shall be [laminate] [wood veneer]. Storage cases and supports shall be metal

Finish:
a. High Pressure Laminate: Manufacturer’s standard selection shall include color
b. Edge: Manufacturer’s standard [vinyl/ABS] [solid wood] selection shall [match wood grain pattern][coordinate with worksurface color]
c. Metal: Manufacturer’s standard powder coat paint selection shall include color. Manufacturer’s standard shall include variety of paint in smooth, textured and metallic finishes
d. Pulls: Manufacturer's standard selection
e. Tack board Fabric: Manufacturer’s standard mid-grade selection shall include color
f. Pedestal Fabric: Manufacturer’s standard, woven, stain resistant, mid-grade [patterned, textured, and/or solid] selection; 100,000+ double rubs shall include color

8.0 Construction Requirements - Metal/Laminate Open Frame Technical Workstations [– NOT USED]

Warranty Requirements:

1. 12 year.
2. Assembly, disassembly and relocation of workstations by end users shall not void warranty or cause warranty to be pro-rated.
3. 5 year – Laminate.

Modularity Requirements:

All workstation components shall be provided by one manufacturer. All items shall meet the specified flexibility and interchangeability requirements of the workstation solutions. Furniture is to be modular and non-handed so components can be used anywhere within the facility. Units which are selectively removable and replaceable without disturbing adjacent components shall be provided.

Testing and Standards:

ANSI/BIFMA X5.5-2014 Desk/Table Products
ANSI/BIFMA X5.9-2004 Storage Units

Worksurface Material
1. ANSI 208.1-2009 Particleboard Classifications.
2. ANSI A208.2-2009 Medium Density Fiberboard.

Environmental and Sustainability
1. All proposed products shall be certified as compliant with Indoor Air Quality (IAQ) requirements and shall meet or exceed ANSI/BIFMA X7.1-2011 (R2016)-VOC.
2. The product submitted shall have 3rd party certification for Indoor Air Quality (GREENGUARD or equivalent).
3. The product submitted shall have certification for Indoor Air Quality (Greenguard Gold or equivalent).

General Requirements:

1. The function of this workstation is designed for 24/7 mission critical environment. Standard office panel systems furniture is non-conforming.
2. The structural foundation of this system is for durable materials that will withstand 24/7 use.
3. Workstations and modular storage shall be an inclusive system of components that can be easily relocated by end user.
4. This system must be modular in design for ease of reconfiguration and allow for upgrading as technology and cabling changes.
5. System must accommodate large cabling requirements, as well as, technology equipment requirements. Workstations and storage units shall be designed to facilitate expandability, rearrangement and installation by end user.
6. Technical workstation units shall be specified complete with no exposed or “raw” parts. Include available covers, fillers, and trims available in the standard GSA specifications guide to provide for a complete and finished appearance and function.
7. Worksurfaces shall be fully supported by floor-standing supports or other support methods such as brackets, legs, end panels, etc. Follow the manufacturer’s guidance on standard practices regarding the size, type, and placement of supports. Size and placement of supports shall not interfere with kneespace clearances.
8. The worksurface height shall be 28½” to 30” from the finished floor.
9. Freestanding units leveling glides shall adjust to allow installation on uneven floors. Minimum adjustment shall be 1”.
10. All components shall be clearly indicated, including model numbers, on the drawings or in a components listing.

Frame, Columns and Uprights:

1. Full open frame shall have a heavy duty steel construction with punched front and back slotting to accept a system of cantilevered worksurfaces, back and end panels.
2. Frames, columns and/or uprights shall be a minimum 14 gauge cold-rolled steel channel with a dual slot arrangement for insertion of component parts or similar constructions.
3. Frames, columns and/or uprights shall be square, I-beam, interlocking U shapes or similar construction.
4. Slots shall be on a 1” increment.
5. Bottom of frames, columns and/or uprights shall have a threaded insert with a minimum 1” leveling glide.
6. Leveling glides shall have non-marring base.
7. Upright or mid-point support channels for front to back stabilization shall be provided for worksurface and be constructed of minimum of 16 gauge cold rolled steel.
Worksurfaces:

1. Worksurfaces shall be constructed of a Grade M2 or M3 particleboard or a ~45 lb. medium density fiberboard core with a minimum VGS General Purpose Grade High Pressure Laminate on the face and a backer material on the underside.
2. Laminates shall be bonded to the core with a PVA adhesive in a cold press or hot press process to prevent separation of the laminate from the core.
3. Low pressure laminate and thermally fused laminate is non-conforming and will be considered unacceptable.
4. Worksurface edges shall be totally finished and sealed against moisture with a flat edged, impact resistant vinyl/ABS, or similar plastic. Radius bullnose T-mold on front edges shall be acceptable.
   If radius edge is used on user side, all other edges shall be flat impact resistant vinyl/ABS, or similar plastic.
5. Laminate self-edges are non-conforming.
6. Worksurfaces shall include predrilled location holes that ensure accurate and secure attachment of desk supports, storage products, and legs.
7. Worksurfaces greater than 54 in length shall have a metal reinforcement channel below the worksurface to minimize deflection.
8. Worksurfaces shall be supported by brackets, legs or equivalent structures to provide a fully supported and stable unit.

Support or Mounting Brackets:

1. Worksurface support brackets shall be constructed of cold rolled steel and mount into the slotted frame or uprights. Gauge of steel shall provide a stable and secure unit and support a minimum overall load a minimum of 200 pounds per side.
2. Base support or leg supports shall be a minimum 16 gauge steel and support frame or uprights.

Wire Management:

1. Cable management shall be non-conductive and placed anywhere on frame as required by end user.

Storage Pedestals:

1. File drawers and box drawers shall be of steel construction.
2. Pedestals shall be a completely enclosed unit. All pedestals shall have a fully finished back and full dustpan or bottom.
3. Drawers shall be 5-sided.
4. Each drawer shall contain a safety catch to prevent accidental removal when drawer is fully open.
5. All box and file drawers shall have ball bearing slides and include anti-rebound mechanism insuring drawers shall close smoothly and quietly.
6. All box and file drawers shall have ball bearing slides.
7. Drawer fronts shall be 22-gauge steel, minimum, and drawer bodies shall be 22-gauge steel, minimum.
8. Box drawers shall have full access or 90% extension slides, minimum.
9. File drawers shall have full extension slides.
10. All 12” file drawers shall be equipped with rails or high sides for hanging folders front-to-back and side-to-side.
11. Rubber bumpers cushion drawer opening and closing for quiet operation
12. Mobile pedestals shall be furnished with internal counterbalance weights to prevent instability and tipping.
13. Mobile pedestals shall have a minimum of two swivel casters.

**End and Back Panels:**

1. End and back panels may be steel, laminate or phenolic resin bonded to high density melamine.

**8.1 Item No. DT01-99: Open Frame Workstation, Metal/Laminate**

Individual Workstation Dimensions: 60”W x 30”D

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Contractor shall:

*Coordinate layout with existing windows, wall-mounted data boxes, etc., as applicable.

**Components:**

a. Unit consists of frame-supported worksurface, end panels, back panels and stretchers
b. 60”W x 30”D Rectangular worksurface
   i. Pencil drawer
c. 72”H End panels and back panels
   i. Each desk shall have (2) end panels
   ii. Panels shall be the nominal full height of frame
   iii. Laminate, metal or fabric screen/end panels and back panels
d. Mobile Box/box/file pedestal with (1) pencil tray per pedestal and (1) drawer divider for each box drawer
   i. Pedestal may be from another manufacturer if standard desk product line does not include an option that meets FID requirements
e. Compatible dual monitor arm [shall include one of the following researched product lines; _____, _____, or _____] with the following requirements:
   i. Mount on worksurface; clamp or grommet mount shall be provided
   ii. Articulating arm with 75mm/100mm VESA mounting
   iii. Arm support shall accommodate screens weighing between 7-25 lbs.
   iv. Arm shall have fast release for removal of flat screen monitors
   v. Shall have cable management to conceal and organize cables
   vi. Arms shall have an independent height adjustment to accommodate landscape
or portrait view

vii. Mount shall accommodate (3) monitors; each monitor arm support on the mount shall accommodate (1) 20” monitor

viii. Panel mounted monitor mounts shall be non-conforming

f. (2) 30” Horizontal stretchers below worksurface

g. (1) 7-Outlet, minimum, power strip with 20’ cord

h. (2) 30” Horizontal stretchers below worksurface for cabling; shall accommodate fiber-optic cables

i. Locks at all drawers

j. All worksurfaces shall be laminate. Storage cases and supports shall be metal

Finish:

a. High Pressure Laminate: Manufacturer’s standard selection shall include color

b. Edge: Manufacturer’s standard [vinyl/ABS] [solid wood] selection shall [match wood grain pattern][coordinate with worksurface color]

c. Metal: Manufacturer’s standard powder coat paint selection shall include color. Manufacturer’s standard shall include variety of paint in smooth, textured and metallic finishes

d. Pulls: Manufacturer’s standard selection

e. Monitor Arm Mount: Manufacturer’s standard selection shall be provide for end user selection after award and prior to order

9.0 Construction Requirements - Metal Furniture: [Lateral Files, Vertical Files, Storage Towers/Cabinets, & Bookcases][ – NOT USED]

Warranty Requirements:

1. 12 year.
2. 5 year – Laminate.

Environmental and Sustainability:

1. All proposed products shall be certified as compliant with Indoor Air Quality (IAQ) requirements and shall meet or exceed ANSI/BIFMA X7.1-2011 (R2016)-VOC.
2. The product submitted shall have certification for Indoor Air Quality (GREENGUARD or equivalent).
3. The product submitted shall have certification for Indoor Air Quality (Greenguard Gold or equivalent).

Top Surfaces:

1. Top surfaces shall be constructed of a Grade M2 or M3 particleboard or a 45 lb. medium density fiberboard core with a minimum VGS General Purpose Grade High Pressure Laminate on the face and a backer material on the underside.
2. Laminates shall be bonded to the core with a PVA adhesive in a cold press or hot press process to prevent separation of the laminate from the core.
3. Low pressure laminate and thermally fused laminate shall be considered non-conforming.
4. Top surface edges shall be totally finished and sealed against moisture with a flat edged, impact resistant vinyl/ABS or similar plastic, have a radius of at least 1/8”, and be 2 – 3mm thick.
5. Laminate self-edges shall be considered non-conforming.
6. Abutting top surfaces shall mate closely and at equal heights when used in side-by-side configurations in order to provide a continuous and level surface.
7. Top surfaces shall include predrilled location holes that ensure accurate and secure attachment of storage products.

6.a Lateral Files

Testing:

ANSI/BIFMA X5.9-2012 Storage Units

General Requirements:

1. File cases, bases, tops, drawers, shelves, drawer fronts, and doors shall be constructed of steel and fully finished.
2. File cabinets shall be equally and fully finished on all sides.
3. Units shall have a steel base. The base is comprised of a lower pan and leveling glides, and shall be welded in the bottom cavity of the cabinet body, or in a similar construction.
4. Leveling glides shall provide a minimum 5/8” adjustment.
5. The drawer sides and back shall be full height to accommodate a standard hanging file with a labeling tab.
6. Drawer bodies shall be formed steel in a welded construction with hanging file rails and removable drawer fronts that can be replaced in the field.
7. Drawer suspension slides shall be full extension, progressive, heavy duty steel.
8. A safety interlock system that allows only one drawer to be opened at a time shall be standard on all files.
9. Units shall be shipped fully assembled.
10. Files shall have a front removable lock core supporting the ability to remove or replace a lock plug as needed.
11. File cabinets shall have a body constructed of a minimum of 22-gauge steel with reinforced braces or channels constructed of a minimum of 18 to 20-gauge steel. All reinforcements shall be welded.
12. Standard files shall have a minimum 22-gauge steel top spanning the width and depth of the case.
13. Drawers shall be of a minimum 22-gauge steel construction.
14. Drawer fronts shall be a minimum of 22-gauge steel construction.
15. The interior and exterior finish of cases shall match.

6.b Vertical Files
Testing:

ANSI/BIFMA X5.3-2007 (R2012) Vertical Files

General Requirements:

1. File cases, bases, tops, drawers, shelves, drawer fronts, and doors shall be constructed of steel.
2. File cabinets shall be equally and fully finished on all sides.
3. Units shall have a steel base. The base is comprised of a lower pan and leveling glides, and shall be welded in the bottom cavity of the cabinet body, or in a similar construction.
4. The drawer sides and back shall be full-height to accommodate a standard hanging file with a labeling tab.
5. Drawer bodies shall be formed steel in a welded construction with hanging file rails and removable drawer fronts that can be replaced in the field.
6. Drawer suspension slides shall be full extension, progressive, heavy duty steel.
7. A safety interlock system that allows only one drawer to be opened at a time shall be standard on all files.
8. Units shall be shipped fully assembled.
9. Files shall have a front removable lock core supporting the ability to remove or replace a lock plug as needed.
10. File cabinets shall have a body constructed of a minimum of 22-gauge steel, with reinforced braces or channels constructed of a minimum of 18 to 20-gauge steel. All reinforcements shall be welded.
11. Standard files shall have a minimum 22-gauge steel top spanning the width and depth of the case.
12. Drawers shall be of a minimum 22-gauge steel construction.

6.c Storage Towers/Cabinets

Testing:

ANSI/BIFMA X5.9-2012 Storage Units

General Requirements:

1. The case body is made up of fully finished steel back, two sides, a top, and a base.
2. Units shall be equally and fully finished on all interior and exterior surfaces.
3. Units shall be freestanding and provide interiors which can be customized for both personal and work related storage.
4. Leveling glides shall provide a minimum 5/8” adjustment.
5. Units shall match lateral file specifications as stated in this document. This includes, but is not limited to, all steel gauges, bracing and other characteristics.
6. The interior and exterior finish of cases shall match.

6.d Bookcases
Testing:

ANSI/BIFMA X5.9-2012 Storage Units

General Requirements:

1. The case body is made up of fully finished steel back, two sides, a top, and a base.
2. The unit shall be equally and fully finished on all interior and exterior surfaces.
3. Units shall have a steel base. The base is comprised of a lower pan and leveling glides, and shall be welded in the bottom cavity of the cabinet body or in a similar construction.
4. Leveling glides shall provide a minimum 5/8” adjustment.
5. The wrapper comprising the side panels and back panel shall be a minimum of 22-gauge steel.
6. The top and bottom shall be a minimum of 22-gauge steel.
7. The interior and exterior finish of cases shall match.

9.1 Item No. SF01-99: 5-Drawer Lateral File, Metal
Overall Dimensions: 36”W x 18-24”D

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General Requirements:

a. Lateral file cabinet with (4) drawers and (1) receding door with [pull out] shelf
b. Full width and full depth continuous [laminate] [wood veneer] top
c. All drawers shall have file rails for side-to-side and front-to-back filing and shall accommodate letter, legal and/or other size folders
d. Label holders
e. Counterbalance
f. Integral pulls
g. Item shall be locking, keyed to match adjacent furnishings within the same [room, space, area]

Finish:

a. High Pressure Laminate: Manufacturer’s standard selection shall include color
b. Wood Veneer: Manufacturer’s standard stain selection shall include color
c. Edge: Manufacturer’s standard [vinyl/ABS] [solid wood] selection shall [match wood grain pattern][coordinate with worksurface color]
d. Metal: Manufacturer’s standard powder coat paint selection shall include color. Manufacturer’s standard shall include variety of paint in smooth, textured and metallic finishes
e. Pulls: Manufacturer’s standard selection shall match adjacent furnishings

9.2 Item No. SF01-99: 4-Drawer [Letter] [Legal] Vertical File, Metal
Overall Dimensions: [15] [18]"W

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General Requirements:
- Vertical file cabinet with (4) drawers
- All drawers shall have file rails for front-to-back filing
- Label holders
- Integral pulls
- Item shall be locking, keyed to match adjacent furnishings within the same [room, space, area]

Finish:
- Metal: Manufacturer’s standard powder coat paint selection shall include color. Manufacturer’s standard shall include variety of paint in smooth, textured and metallic finishes
- Pulls: Manufacturer’s standard selection shall match adjacent furnishings

9.3 Item No. SC01-99: Storage Cabinet, Metal
Overall Dimensions: 36"W x 18-24"D x H

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General Requirements:
- (2) Full height, metal, lockable doors
- (4) Full width, adjustable, metal shelves
- Integral pulls
- Full width and full depth continuous [laminate] [wood veneer] top
- Provide manufacturer standard attachment kit
- Finish and style shall match adjacent storage
- Leveling glides
- Item shall be locking, keyed to match adjacent furnishings within the same [room, space, area]

Finish:
- High Pressure Laminate: Manufacturer’s standard selection shall include color
- Wood Veneer: Manufacturer’s standard stain selection shall include color
- Edge: Manufacturer’s standard [vinyl/ABS] [solid wood] selection shall [match wood grain pattern][coordinate with worksurface color]
- Metal: Manufacturer’s standard powder coat paint selection shall include color. Manufacturer’s standard shall include variety of paint in smooth, textured and metallic finishes
- Pulls: Manufacturer's standard selection shall match adjacent furnishings
9.4 Item No. SC01-99: Hybrid Storage Tower, Metal
Overall Dimensions: 36"W x 18-24"D x H

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General Requirements:
- [Side access] [Open] bookshelf with (1) adjustable shelf and file/file below, one side
- Full height storage cabinet with coat [rod] [hook], other side
- Closed storage with (1) adjustable shelf
- Integral pulls
- Item shall be locking, keyed to match adjacent furnishings within the same [room, space, area]

Finish:
- Metal: Manufacturer’s standard powder coat paint selection shall include color.
  - Manufacturer’s standard shall include variety of paint in smooth, textured and metallic finishes
- Pulls: Manufacturer’s standard selection shall match adjacent furnishings

9.5 Item No. SC01-99: Printer Stand, Metal with [Laminate] [Wood] Top
Overall Dimensions: 36"W x 18-24"D x H

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General Requirements:
- (2) Full height, metal, lockable doors
- (1) Full width, adjustable, metal shelf
- Integral pulls
- Full width and full depth continuous [laminate] [wood veneer] top
- Leveling glides
- Grommets
- Item shall be locking, keyed to match adjacent furnishings within the same [room, space, area]

Finish:
- High Pressure Laminate: Manufacturer’s standard selection shall include color
- Wood Veneer: Manufacturer’s standard stain selection shall include color
- Edge: Manufacturer’s standard [vinyl/ABS] [solid wood] selection shall [match wood grain pattern][coordinate with worksurface color]
- Metal: Manufacturer’s standard powder coat paint selection shall include color.
  - Manufacturer’s standard shall include variety of paint in smooth, textured and metallic finishes
e. Pulls: Manufacturer’s standard selection shall match adjacent furnishings

9.6 Item No. SB01-99: 5-Shelf Bookcase, Metal
Overall Dimensions: 36”W x 12-18”D x H

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General Requirements:
- (4) Full width, adjustable, metal shelves
- Fixed base shelf
- Leveling glides
- Provide manufacturer standard attachment kit

Finish:
- Metal: Manufacturer’s standard powder coat paint selection shall include color. Manufacturer’s standard shall include variety of paint in smooth, textured and metallic finishes

9.7 Item No. SL01-99: Single Personal Locker, Metal, Group of 5
Unit Dimensions: 10-12”W x 12-18”D x 39-42.5”H min
Group Dimensions: 60”W x 12-18”D x 39-42.5”H min

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Item image is for general illustration purposes only and it is not an exact representation of the requirement.

Contractor shall:
*Confirm handedness in the field.

General Requirements:
- Group comprised of (5) single locker compartments with locking hinged doors
- Full width and full depth continuous [laminate] [wood veneer] top
c. Each locker shall have:
   i. (1) Coat hooks in each compartment, minimum
   ii. (1) Adjustable shelf, minimum
   iii. Integral pulls
   iv. Plinth base
   v. Leveling glides
   vi. Number plate. Numbering shall be coordinated with end user after award
   vii. Item shall be electronically locked and shall include batteries

d. Item shall be locking, keyed to match adjacent furnishings within the same [room, space, area]
e. Lockers shall be ganged per manufacturer’s recommendation; refer to plan for configuration

Finish:

a. High Pressure Laminate: Manufacturer’s standard selection shall include color
b. Edge: Manufacturer’s standard [vinyl/ABS] [solid wood] selection shall [match wood grain pattern][coordinate with worksurface color]
c. Metal: Manufacturer’s standard powder coat paint selection shall include color. Manufacturer’s standard shall include variety of paint in smooth, textured and metallic finishes
d. Pulls: Manufacturer’s standard selection shall match adjacent furnishings

10.0 Construction Requirements - Laminate Tables, Metal Bases[ – NOT USED]

Warranty Requirements:

1. 10 year.
2. 5 year – Laminate and wood veneer.

Testing & Standards:

ANSI/BIFMA X5.5-2014 Desk/Table Products

Material

1. ANSI 208.1-2009 Particleboard Classifications.
2. ANSI A208.2-2009 Medium Density Fiberboard.

General Requirements:

1. Table tops shall be constructed of a Grade M2 or M3 particleboard or a 45 lb. medium density fiberboard core with a minimum VGS General Purpose Grade High-Pressure Laminate on the face and a backer material on the underside.
2. Laminates shall be bonded to the core with a PVA adhesive in a cold press or hot press process to prevent separation of the laminate from the core.
3. Low pressure laminate and thermally fused laminate shall be considered non-conforming.
4. Table top edges shall be totally finished and sealed against moisture.
5. The edge profiles shall be ABS/vinyl edge banding.
6. Laminate self-edges shall be considered non-conforming.
7. Abutting tables shall mate closely and at equal heights when used in side-by-side configurations in order to provide a continuous and level surface.
8. The leg shaft shall be welded to a formed steel plate, and the plate shall be attached to the bottom of the table with mechanical fasteners in metal inserts.
9. End caps on round metal legs shall be neatly finished and consist of steel plugs that are brazed in place, ground and polished smooth prior to finishing. Plastic end caps shall be considered non-conforming.
10. “Flip-top” mechanisms shall be of a die cast aluminum or steel.
11. Stationary modesty panels shall have “flip” capabilities.

**General Power Requirements:**

5. Field or factory installed metal grommets shall be available. Grommets shall be a minimum of 1¾” in diameter with covers and shall have a low profile.
6. Electrical components shall be manufactured in compliance with NEC regulations and shall be UL approved.
7. Power/Data modules shall be recessed from view and accessed via a touch latch or a hinged or sliding cover.
8. Module shall have CE mark.
9. All electric components shall be compatible with 230V/50HZ [German][Belgium][Italian] power and manufactured with a Schuko Type F plug.

**Adjustable Height Worksurfaces:**

1. Table top thickness shall be no less than 1”
2. Adjustable height worksurfaces shall have a minimum range of 15”.
3. All electrical lines for the adjustable height unit shall have line embedded with gasket to prevent accidental damage.
4. Adjustable height worksurfaces shall meet BIFMA standard, 22.6” – 48.7”H.

**Adjustable Height – Electrical Applications:**

1. Base shall be electric; pneumatic, crank or pin height adjustment is non-conforming.
2. If enclosed, lifting mechanism shall not decrease kneespace more than 8” underneath unit.
3. Weight capacity shall be minimum of 200 lbs., including top.
4. Height adjustment mechanism:
   i. Adjustment speed shall be a minimum of 1.4” per second.
   ii. Shall operate by touch pad or push button with a minimum of 3 programmable memory settings.
   iii. Mechanism shall have safety stops.
   iv. Motor shall be enclosed and UL or ETL listed.
   v. Mechanism shall have CE mark.
5. All electric components shall be compatible with 230V/50Hz [German][Belgium][Italian] power and manufactured with a Schuko Type F plug.

10.1 Item No. T[C] [S]01-99: [Conference] [Meeting] [Work] Table, Metal/[Laminate] [Wood Veneer], Powered
Overall Dimensions: 96”W x 48”D

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<thead>
<tr>
<th>Researched product lines:</th>
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<td>Manufacturer – Product Line</td>
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General Requirements:
- a. [High pressure laminate] [Wood veneer] top
- b. Metal [T-legs with metal end caps] [post legs] [base] [disc base]
- c. Provide a minimum of (2) power/data modules:
  - i. Provide a minimum of (2) simplex power outlets and (2) data/comm. ports, per module
  - ii. Power connection shall [plug-in] [be hardwired] to building power
- d. Grommets with covers; coordinate locations with end user after award and prior to order
- e. Wire management tray or basket below the table top
- f. Leveling glides
- g. Ganging hardware; tables shall fit flush with one another when required, refer to floor plan

Finish:
- a. High Pressure Laminate: Manufacturer’s standard selection shall include color
- b. Wood Veneer: Manufacturer’s standard stain selection shall include color
- c. Edge: Manufacturer’s standard [vinyl/ABS] [solid wood] selection shall [match wood grain pattern][coordinate with worksurface color]
- d. Metal: Manufacturer’s standard powder coat paint selection shall include color

10.2 Item No. TT01-99: [Flip Top] [Height Adjustable] Training Table, Metal/Laminate, Powered
Overall Dimensions: 72”W x 24”D

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General Requirements:
- a. High pressure laminate top with vinyl/ABS edge
- b. Metal [T-legs] [Y-legs] [C-legs]
- c. [Glides] [Casters]
- d. Provide a minimum of (2) power/data modules:
  - i. Provide a minimum of (2) simplex power outlets and (2) data/comm. ports, per module
ii. Power connection shall [plug-in] [be hardwired] to building power
iii. [Non-sequential] [Sequential] power
e. Grommets with covers; coordinate locations with end user after award and prior to order
f. Flip-top/nesting capable
g. Vertical wire management mounted [to] [in] leg column
h. Wire management tray or basket below the table top
i. [Metal] [Laminate] modesty panel
j. Ganging hardware; tables shall fit flush with one another when required, refer to floor plan
k. [Crank] [Electronic] [Pin] height adjustable[: ] [with the following requirements:]
i. Base shall be electric; pneumatic, crank or pin height adjustment is non-conforming
   a. Power cord shall be long enough to reach power source
   b. Metal C-legs with metal end caps
   c. Legs shall not interfere with kneespace clearance
ii. Cord management chain or snake
iii. Leveling glides

Finish:
a. High Pressure Laminate: Manufacturer’s standard selection shall include color
b. Edge: Manufacturer’s standard [vinyl/ABS] [solid wood] selection shall [match wood grain pattern][coordinate with worksurface color]
c. Metal: Manufacturer’s standard powder coat paint selection shall include color

10.3 Item No. TB01-99: [Break Room] [Café] Table, Metal/Laminate
Overall Dimensions: [36” Diameter] [36”W x 36”D] [40-42”H]

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General Requirements:
a. Laminate top with vinyl/ABS edge
b. Metal [4-star] [X-] [or disc] base with glides

Finish:
a. High Pressure Laminate: Manufacturer’s standard selection shall include color
b. Edge: Manufacturer’s standard [vinyl/ABS] [solid wood] selection shall [match wood grain pattern][coordinate with worksurface color]
c. Metal: Manufacturer’s standard powder coat paint selection shall include color

11.0 Construction Requirements - Wood Casegoods, Executive II[ – NOT USED]

Warranty Requirements:
1. 10 year.
2. 5 year – Wood Veneer.
3. 1 year or manufacturer's standard – Electrical Components and Lift Mechanism.

Testing and Standards:

ANSI/BIFMA X5.5-2014 Desk/Table Products
ANSI/BIFMA X5.9-2012 Storage Units

Material
1. ANSI 208.1-2009 Particleboard Classifications.
2. ANSI A208.2-2009 Medium Density Fiberboard.

Referenced Standards

Environmental and Sustainability
1. All proposed products shall be certified as compliant with Indoor Air Quality (IAQ) requirements and shall meet or exceed ANSI/BIFMA X7.1-2011 (R2016)-VOC.
2. The product submitted shall have certification for Indoor Air Quality (Greenguard Gold or equivalent).

General Requirements:

1. Worksurfaces shall be fully supported by floor-standing pedestals or other supports such as brackets, legs, panels, etc., following the manufacturer's standard practices for the size, type, and placement. Size and placement of supports shall not interfere with kneespace clearances. All pedestals and supports shall be indicated on the drawings and in the component listing.

2. [Traditional wood casegoods cover a range of historical style influences such as Chippendale, Sheraton, Hepplewhite, and other Georgian and Neo-Classical styles. Elements such as crown and base molding for desks and storage, accent moldings, and traditionally shaped edge profiles on worksurfaces are integral parts of this style. Styling details for these casegoods shall be selected to provide a unified, traditional aesthetic throughout the space.] [Transitional wood casegoods blend the light, clean lines of contemporary styling with the influence of traditional period styling without appearing heavy or bulky. Elements such as base molding or trim (if present), crown molding or cornice/profiled trim, and worksurface edge details may be simpler than their traditional counterparts and may be curvilinear or rectilinear in design. They may also be smaller than traditional moldings and have a smaller projection from the face of the piece on which they are applied. Ornamentation such as picture mold or other overlay moldings are not appropriate to this style.] [Contemporary wood casegoods have light, clean geometric shapes with no ornamentation except for simple edge detailing on worksurfaces when required.]
3. All wood desk components and wood storage components within a room shall be from the same manufacturer.

4. All casegood components located [throughout an entire building] [within a room/office] shall have a consistent finish and color.

5. The finish color shall match on all components within a room.

6. All wood shall be of the same species, except contrasting wood species shall be permitted for decorative accents and inlays.

7. All desk components shall have adjustable glides with a minimum adjustment of ¾”.

8. Provide all brackets and hardware to ensure proper installation and stability of products.

9. Clips, brackets, screws, and other construction and attachment elements shall be concealed.

**Veneer Components:**

**General Requirements:**

1. Veneers shall be “natural”. “Composite” or “reconstituted veneer” shall not be acceptable.
2. Drawer fronts shall have a vertically matched veneer within each pedestal set.
3. Veneer thickness shall be 0.4 - 0.7mm.
4. All segments in one panel shall be the same size, except the two outside edge segments can be narrower to visually balance the panel. Any cathedral grain pattern shall be centered within the flitch.
5. All veneer plates on one panel shall come from the same flitch of veneer; mismatched plates shall be considered non-conforming.
6. The grain direction on exterior panels, including doors and drawers, shall be vertical, with cathedral peaks pointed toward the top of the panel.
7. The grain direction on straight and extended corner worksurfaces shall run parallel to the long dimension of the worksurface, and shall have a visual balance in the wood grain pattern in both width and depth.
8. The veneer on a separate corner worksurface shall run parallel to the 45 degree user edge.
9. Wood veneer surfaces shall be bonded to the core with a PVA or other low VOC adhesive utilizing either a hot or cold press process to ensure complete lamination to the core.
10. Products shall be available in “semi-open pore” or “full-fill” finishes.
11. No unfilled worm holes, spike knots, veneer patches, bark pockets, torn grain, open splits, rough cuts, or ruptured grain shall be permitted on exposed surfaces, except as otherwise noted below.

**Premium Visibility Surface Requirements:**

1. Premium visibility surfaces include the following:
   a. Worksurfaces and storage tops 29”H
   b. Drawer and door fronts
2. Wood veneer for these surfaces shall conform to the following requirements:
   a. Plain-sliced (flat-cut)
   b. Cathedrals shall be centered in segment with equal quarters on each side
c. Cathedral figure shall be achieved by a single component; no split heart shall be permitted
d. Cathedrals with wild grain that deviates from the desired arc shape shall be minimal and shall have less than two concave (opposite the cathedral direction) points per cathedral line
e. No sapwood shall be permitted for cherry and walnut
f. Maple shall be all sapwood
g. Slight color and/or mineral streaks that run parallel to the grain shall be permitted
h. Slight color variation with no sharp contrast shall be permitted
i. Veneer shall be book or slip matched
j. Minimum nominal segment width shall be 6”
k. Conspicuous burls and pin knots in cherry and walnut shall be ¼” maximum diameter with no prominent clusters. Average combined quantity shall not exceed 8 per 32 sq. ft.
l. No conspicuous pin knots shall be permitted in maple. Conspicuous burls in maple shall be ¼” maximum diameter with no prominent clusters. Average quantity shall not exceed 6 per 32 sq. ft.
m. Birdseye in maple shall be scattered with no clusters
n. Slight sugar in maple shall be permitted. Sugar streaks shall be parallel to the grain and shall be lighter than the darkest cathedral
o. Occasional sound and scattered gum spots in cherry shall be permitted
p. Slight worm tracks parallel to the grain and lighter than the darkest cathedral shall be permitted
q. Slight vine marks and cross bars shall be permitted
r. Bull’s eye shall not be permitted in walnut
s. A maximum of two repaired hairline splits no larger than 1/32” x 3” shall be permitted
t. Very small blending repairs shall be permitted

High Visibility Surface Requirements:
1. High visibility surfaces include the following:
   a. Tops of mobile pedestals
   b. Exterior face of modesty panels, pedestals and overhead storage end panels
   c. Exterior ends of overhead storage cabinets, wardrobe and storage cabinets, and lateral files
2. Wood veneer for these surfaces shall conform to the following requirements:
   a. Plain-sliced (flat-cut)
   b. Cathedrals shall be centered in segment with equal quarters on each side
   c. Split heart shall be permitted if a manufactured cathedral is achieved
d. Slight wild grain in cathedrals that deviates from the desired arc shape shall be permitted and shall have less than three concave (opposite the cathedral direction) points per cathedral line
e. Sapwood shall not be permitted for cherry and walnut
f. Maple shall be all sapwood
g. Slight color and/or mineral streaks that run parallel to the grain shall be permitted. Mineral streaks in maple shall be blending
h. Slight color variation with no sharp contrast shall be permitted
i. Veneer shall be book or slip matched
j. Minimum nominal segment width shall be 5"
k. Conspicuous burls shall be ⅜" maximum diameter; pin knots shall be ¼" maximum. There shall be no prominent clusters, and the average combined quantity shall not exceed 10 per 32 sq. ft. in maple, and 24 per 32 sq. ft. in cherry and walnut
l. Birdseye in maple shall be scattered with no clusters
m. Slight sugar in maple shall be permitted. Sugar streaks shall be parallel to the grain and shall be lighter than the darkest cathedral
n. Occasional sound and scattered gum spots in cherry shall be permitted
o. Slight worm tracks parallel to the grain and lighter than the darkest cathedral shall be permitted
p. Occasional vine marks and cross bars shall be permitted
q. Occasional bull’s eye shall be permitted in walnut
r. A maximum of two repaired hairline splits no larger than 1/16” x 6” shall be permitted.
s. Small blending repairs shall be permitted

Moderate Visibility Surface Requirements:
1. Moderate visibility surfaces include the following:
   a. Interior face of modesty panels and both faces of overhead storage end panels
   b. Interior faces and shelves of bookcases
   c. Interior of overhead storage cabinets, wardrobe and storage cabinets
2. Wood veneer for these surfaces shall conform to the following requirements:
   a. Plain-sliced (flat-cut)
   b. Split heart shall be permitted
   c. Sapwood shall not be permitted for cherry and walnut
   d. Color and/or mineral streaks that run parallel to the grain shall be permitted. Mineral streaks in maple shall be blending
   e. Color variation with some contrast shall be permitted; color variation in maple shall be slight
   f. Veneer shall be book or slip matched
   g. Minimum nominal segment width shall be 3"
   h. Conspicuous burls in cherry and walnut shall be a maximum ½” diameter; pin knots shall be a maximum ¼”. The average combined quantity shall not exceed 64 per 32 sq. ft.
i. Conspicuous pin knots in maple shall be ¼” maximum diameter. Conspicuous burls in maple shall be ½” maximum diameter. Average combined quantity shall not exceed 16 per 32 sq. ft.
   j. Birdseye in maple shall be scattered with no clusters
   k. Sugar in maple shall be permitted. Sugar streaks shall be parallel to the grain and shall be lighter than the darkest cathedral
   l. Scattered sound and repaired knots shall be permitted. Sound knots shall not exceed ⅜” diameter; repaired knots shall not exceed ⅛” diameter. The combined average number shall not exceed one per 8 sq. ft.
m. Gum spots in cherry shall be permitted
   n. Few bark pockets not to exceed ⅛” x 1” shall be permitted
o. Slight worm tracks shall be permitted
p. Vine marks and cross bars shall be permitted; vine marks in maple shall be slight
q. Bull’s eye shall be permitted in walnut
r. A maximum of four repaired hairline splits no larger than \( \frac{1}{8} ” \times 8” \) shall be permitted
s. Blending repairs shall be permitted

**Solid Wood Components:** (Visible components only)

1. Solid wood components shall be kiln dried with moisture content from 5-10%.
2. All solid wood shall be compatible for color and grain.
3. Sound, scattered birdseye in maple shall be permitted.
4. Sound knots shall be no more than \( \frac{1}{4} ” \) in diameter.
5. Mineral stain shall not exceed 10% of the face.
6. Sapwood in cherry and walnut shall be less than 5% of the face.
7. Worm holes less than 1/16” shall be permitted.
8. No bark pockets, honeycomb, pitch pockets or streaks, sticker discoloration, mineral stain, or shake shall be allowed.

**Component Construction:**

1. All casegood components shall be constructed of a Grade M2 or M3 particleboard core with veneer on exposed faces and a backer sheet on unexposed faces.
2. Desks and other products with chassis construction shall be assembled using tenon & groove or equal construction methods, and be reinforced with hardwood cleats or a similar method of reinforcement.
3. Pedestals shall be assembled with tenon and groove construction or dowels; dowel construction shall be reinforced with corner brackets and stretcher bars for stability.
4. Desk pedestals shall be the full nominal depth of the worksurface unless limited by wire access cavities or overhangs.
5. Back panels on freestanding storage cabinets shall be let into the sides so that no raw edges are visible.
6. Tops and ends of storage units shall be securely connected with metal fasteners and hardwood biscuits.

**Drawers:**

1. Drawer fronts shall be solid wood or a veneered panel.
2. Drawers shall be 5-sided with a separate removable front for field replacement without disturbing the contents of the drawer.
3. Drawer sides and backs shall be minimum 7/16” thick solid hardwood assembled with dowels or with dovetailed joints, or ½” thick plywood assembled with dowels. Variance from the thickness requirement for file drawer sides shall only be permitted when the metal file rails attached to the top drawer edge require the dimension to be less. In no instance shall the thickness of the drawer side be reduced to less than 3/8".
4. Drawer bottoms shall be a 3-ply construction of particleboard, MDF or a similarly engineered wood core, with a veneer face and backer sheet on the underside of the panel. Drawer bottoms shall be captured in a dado groove on all four sides or let into the bottom of the drawer with a rabbet joint on all sides and glued/stapled.

5. File drawers shall have full extension ball bearing slides with a dampened start/stop feature and a positive stop.

6. Box drawers shall have the same slides as file drawers, except that the suspension must allow access to a minimum 3/4 of the drawer's depth.

7. File drawers shall have full height sides with metal file rails for front-to-back and side-to-side filing.

8. File drawers and hanging systems shall support hanging file folders without the folders binding or falling through, and shall allow the drawer to close with index tabs in place.

9. Drawers of a composite core miter-fold construction, laminated with vinyl material, shall be considered non-conforming.

10. File drawers that require a separate metal file frame to accommodate hanging folders shall be considered non-conforming.

**Worksurfaces and Tops:**

1. Worksurfaces shall be constructed of a Grade M2 or M3 particleboard core or a 45 lb. medium density fiberboard core with veneer on the face and a backer material on the underside. Worksurfaces shall be a minimum 1 3/16" thick.

2. Worksurfaces shall be connected to the chassis/pedestals with steel angle brackets or a similar method of attachment.

3. Worksurfaces and tops shall have hardwood edges with profiles or solid wood edge band. Species of edge shall match the species of veneer used on the worksurface, except solid maple shall be acceptable in lieu of solid cherry edges.

4. All visible and exposed worksurface perimeters shall have consistent profiles.

5. Worksurfaces shall be available with factory or field installed grommets. Grommets shall be a minimum of 1¾” in diameter, include covers and inserts, and shall have a low profile.

6. Bridges, returns and run-off worksurfaces shall have a coped edge for a smooth transition to adjoining worksurfaces.

7. Adjustable height worksurfaces shall align adjacent or adjoining worksurface and within a ¼” tolerance.

**Modesty Panels, End Panels, and Supports:**

1. Modesty panels shall be available for return worksurfaces.

2. End panels shall be capable of supporting the worksurface without modesty or back panels.

**Overhead Storage Units:**

1. Doors shall have concealed European style hinges with a minimum opening of 95 degrees.
2. The minimum height from the worksurface to the bottom of the hutch shall be 18”.
3. Shall be securely attached to worksurfaces with industrial grade double-stick tape.

**Freestanding Storage:**

1. Lateral file and hybrid storage cabinet drawers shall conform to the drawer construction requirements for pedestals.
2. Lateral file cabinets shall be standard with an interlock mechanism to prevent more than one drawer opening at one time.
3. Lateral file shall be standard with central locking; only one lock should be required to secure all drawers and/or doors in a unit.
4. Hybrid storage cabinets shall be keyed alike for all locks in unit.
5. Doors shall have concealed European style hinges with a minimum opening of 95 degrees.
6. Doors on media cabinets for video screens or TV storage shall have pocket doors that retract and store in the cabinet or hinges that allow doors to open fully for unobstructed viewing of the screen.
7. Storage cabinet and bookcase shelves shall be adjustable on 1½” centers.
8. The interior cabinet depth of wardrobes shall accommodate a coat rod for shoulder-out hanging of garments using standard coat hangers, except when required depth is less than 24”.
9. Wardrobe or storage cabinets in modular desk assemblies shall match the combined total height of the adjacent return or credenza plus the overhead storage unit.
10. Drawer fronts shall have a vertically matched veneer.
11. All shelves located within a bookcase shall be 10-13”H.

**Task Lighting:**

1. Task lights shall be a standard component of the manufacturer’s furniture products.
2. Task lights shall recess into the bottom of overhead cabinets and shelves or be shielded by a valance or trim board to fully conceal the fixture.
3. Task lights shall be sized to provide even illumination over the length of the worksurface. Task lighting for 72” wide overhead storage units shall be no less than 48” wide.
4. All other task lights shall be sized appropriately for the overhead storage bin.
5. LED task lights shall have a minimum 50,000-hour life span and 3500K color temperature.
6. Depending on the task light length, LED Color Rendering Index (CRI) shall range from 83-84.
7. Electronic ballasts shall be provided to eliminate fluorescent lamp flicker and computer screen interference. Shared ballasts shall not be used.
8. Task lights shall provide glare control.
9. Task lights shall have an easily accessible on-off switch.
10. Daisy chain cords shall be available for the modular connection of shelf lights.
11. Fluorescent lamps shall be Energy Star rated.
12. All fixture diffusers, grilles, or other coverings shall be easily removable to permit cleaning and replacement.
13. Task lights shall be UL or ETL listed and labeled.
14. Task lights shall have CE mark.

**Trim and Moldings:**

1. All trim and moldings shall be solid hardwood in species matching veneer, except that solid maple shall be permitted in lieu of solid cherry. Shaped, veneer-wrapped MDF moldings shall be considered non-conforming.
2. Crown/Cornice molding or profiled trim shall be securely attached with glue and concealed mechanical fasteners. Where molding or trim wraps the sides of a piece, corners shall be mitered and joints shall be tight, flush and glued for stability.
3. Base molding shall be applied to the front, back and sides of desks, end panels, modesty panels, and the bases of columns or panel supports; corners shall be mitered and joints shall be tight and glued for stability.

**Adjustable Height Desks – Electrical Applications:**

1. Weight capacity shall be minimum of 200 lbs., including top.
2. Height adjustment mechanism:
   i. Adjustment speed shall be a minimum of 1.4” per second.
   ii. Mechanism shall have safety stops.
   iii. Motor shall be enclosed and UL or ETL listed.
   iv. Mechanism shall have CE mark.
3. All electric components shall be compatible with 230V/50HZ [German][Belgium][Italian] power and manufactured with a Schuko Type F plug.

**General Power Requirements:**

1. Where indicated, adjustable height worksurfaces shall have a hinged door or removable panel that can provide access to electrical wiring, data and communication cables, and allows for reconfiguration of these connections.
2. Field or factory installed metal grommets shall be available. Grommets shall be a minimum 1¾” in diameter with covers and inserts and shall have a low profile.
3. Electrical components shall be manufactured in compliance with NEC regulations and shall be UL approved.
4. Power/Data port modules shall be recessed from view and accessed via a touch latch or a hinged or sliding cover.
5. Module shall have CE mark.
6. All electric components shall be compatible with 230V/50HZ [German][Belgium][Italian] power and manufactured with a Schuko Type F plug.

11.1 Item No. DL01-99: Freestanding L-Shaped Desk, Wood Veneer, [Traditional][Transitional], Executive II
Overall Dimensions: 6'-0”W x 6'-0”D

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Contractor shall:
*Confirm handedness in field.
*Coordinate layout with existing windows, wall-mounted data boxes, etc., as applicable.

**Components:**

a. 72"W x 36"D Rectangular desk **with overhang**
   i. 30"D Box/box/file or Pencil/box/file pedestal with (1) pencil tray per pedestal and
      (1) drawer divider for each box drawer
   ii. **Center drawer**
   iii. **Full height breakfront modesty panel**

b. 42"W x 24"D Rectangular return
   i. 24"D File/file pedestal
   ii. [Partial height] [Full height hinged or removable] modesty panel

c. 72"W Double-high Overhead storage unit with hinged doors, mounted above return
   i. **Doors shall have [metal grille][glass][acrylic] inserts**
   ii. **Energy saving [task] [LED] light with vertical wire management and power cord**
      long enough to reach power source
      1. **Provide task light with occupancy sensor; sensor shall be installed facing user**
   iii. **Full width and full height tack board below upper storage components**

d. [18][24]"W Wardrobe unit:
   i. Coat rod and shelf
   ii. **Height shall match combined total height of desk and credenza**
   iii. **Depth shall match worksurface depth**

e. Grommets with covers on all worksurfaces

f. Cable trays and/or clips for wire management below all worksurfaces

g. Locks at all drawers and doors, keyed [alike] to match adjacent furnishings within the same [room][area]

**Traditional Edge Detail/Molding:**

a. Crown/Cornice Molding: **1½-3"H** with traditional profile
b. Edge Detail: Manufacturer’s standard traditional profile shall include shape
c. Base Molding: **3½"H** with traditional profile on top edge
d. Picture/Panel Molding: Manufacturer’s standard selection
e. Beltline Molding: Manufacturer’s standard selection

**Transitional Edge Detail/Molding:**

a. Crown/Cornice Trim/Profile: **1-3"H** Shaped crown, trim or profile with transitional detailing
b. Edge Detail: Manufacturer’s standard edge profile shall include shape

**Finish:**

a. Wood Veneer: [Cherry or walnut] [Maple] in manufacturer’s standard stain selection
   shall include color
b. Pulls: Manufacturer’s standard [traditional][transitional] selection
c. Fabric: Manufacturer’s standard mid-grade selection shall include color
d. [Glass] [Acrylic]: Manufacturer’s standard selection shall include [clear] [frosted] [patterned]

11.2 Item No. DU01-99: Freestanding U-Shaped Desk, Wood Veneer, [Traditional] [Transitional], Executive II
Overall Dimensions: 6'-0"W x 6'-0"D

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Contractor shall:
*Confirm handedness in field.

*Coordinate layout with existing windows, wall-mounted data boxes, etc., as applicable.

Components:

a. 72"W x 36"D [Bow front] [Rectangular] desk with 6"overhang
   i. Center drawer
   ii. 30"D Box/box/file or Pencil/box/file pedestal with (1) pencil tray per pedestal and (1) drawer divider for each box drawer
   iii. Full height breakfront modesty panel
   iv. Worksurface shall have height adjustable mechanism to raise/separate the top from the pedestal
      a. Worksurface may have detail to create a “floating” effect
      b. Worksurface shall have integral modesty panel to rise/lower with top, to the extent possible
   v. Desk shall include components to conceal view of desk interior from approach side

b. 42"W x 24"D Rectangular bridge
   i. [Partial height] [Full height hinged or removable] [No] modesty panel
   ii. Worksurface shall have height adjustable mechanism
   iii. Wood veneer modesty panel shall be partial, full height hinged or removable access panel to reach wall power
   iv. Provide (1) power supply; mount below bridge worksurface
      a. Provide a minimum of (4) simplex power outlets
      b. Power connection shall plug-in to building power
      c. Coordinate exact location with end user after award and prior to order

c. Desk and bridge worksurfaces shall lift simultaneously or independently; simultaneous lift is preferred

d. Height adjustable lift mechanisms shall include:
   i. Lift columns and adjustment mechanism shall be concealed in chassis and shall not impede kneespace more than 8.5" 
   ii. Lift height shall adjust a minimum of 18", ranging between 28-48"H
   iii. Lift shall be electric; pneumatic, crank or pin height adjustment is non-conforming
a. Power connection shall plug-in to building power. A power supply shall be utilized to reach to wall power while in standing height position.

iv. Controller shall have a minimum of 3 programmable memory settings

e. 72"W x 24"D Rectangular credenza

i. 24"D File/file pedestal

ii. [Partial height] [Full height hinged or removable] [No] modesty panel

f. 72"W Double-high Overhead storage unit with hinged doors

i. Doors shall have [metal grille][glass][acrylic] inserts

ii. Energy saving [task] [LED] light with vertical wire management and power cord long enough to reach power source

1. Provide task light with occupancy sensor; sensor shall be installed facing user

iii. Full width and full height tack board below upper storage components

g. Grommets with covers on all worksurfaces

h. Cable trays and/or clips for wire management below all worksurfaces

i. Locks at all drawers and doors, keyed [alike] to match adjacent furnishings within the same [room][area]

Traditional Edge Detail/Molding:

a. Crown/Cornice Molding: 1½-3"H with traditional profile

b. Edge Detail: Manufacturer’s standard traditional profile shall include shape

c. Base Molding: 3½"H with traditional profile on top edge

d. Picture/Panel Molding: Manufacturer’s standard selection

e. Beltline Molding: Manufacturer’s standard selection

Transitional Edge Detail/Molding:

a. Crown/Cornice Trim/Profile: 1-3"H Shaped crown, trim or profile with transitional detailing

b. Edge Detail: Manufacturer’s standard edge profile shall include shape

Finish:

a. Wood Veneer: [Cherry or walnut] [Maple] in manufacturer’s standard stain selection shall include color

b. Pulls: Manufacturer’s standard [traditional][transitional] selection

c. Fabric: Manufacturer’s standard mid-grade selection

d. [Glass] [Acrylic]: Manufacturer’s standard selection shall include [clear] [frosted] [patterned]

e. Lift Columns: Manufacturer’s standard selection shall include anodized aluminum or silver powder coat paint

11.3 Item No. DD01-99: Freestanding [Single] [Double] Pedestal Desk and Credenza, Wood Veneer, [Traditional] [Transitional], Executive II

Overall Footprint: 6'-0"W x 6'-0"D

Researched product lines:

Manufacturer – Product Line
Manufacturer – Product Line
Contractor shall:
*Coordinate layout with existing windows, wall-mounted data boxes, etc., as applicable.

Desk Components:

a. 72"W x 36"D [Bow front] [Rectangular] desk with 6" overhang
   i. Center drawer
   ii. Full height breakfront modesty
   iii. (2) 30"D Box/Box/file pedestals with (1) pencil tray per pedestal and (1) drawer divider for each box drawer
   iv. (1) 30"D Box/Box/file pedestal and (1) 30"D File/ File pedestal with (1) pencil tray per pedestal and (1) drawer divider for each box drawer

b. 72"W Double-high Overhead storage unit with hinged doors
   i. Doors shall have [metal grille][glass][acrylic] inserts
   ii. Energy saving [task] [LED] light with vertical wire management and power cord long enough to reach power source
      1. Provide task light with occupancy sensor; sensor shall be installed facing user
   iii. Full width and full height tack board below upper storage components

c. Grommet with cover on worksurface

d. Cable trays and/or clips for wire management below worksurface

e. Locks at all drawers and doors, keyed [alike] [to match adjacent furnishings within the same [room][area]

Credenza Components:

a. 72"W x 24"D Rectangular credenza
   i. [Storage credenza with (4) doors and adjustable shelf] [Knee-space credenza with (2) file/file pedestals]

b. 72"W Double-high Overhead storage unit with hinged doors
   i. Doors shall have [metal grille][glass][acrylic] inserts
   ii. Energy saving [task] [LED] light with vertical wire management and power cord long enough to reach power source
      1. Provide task light with occupancy sensor; sensor shall be installed facing user
   iii. Full width and full height tack board below upper storage components
   iv. (2) Open Bookcase sections with glass doors, adjustable shelves at each end of the unit, and an open section in middle with accent light and valance or trim board to conceal light. Provide power cord long enough to reach power source; cord shall not be visible on interior of cabinet

c. Grommet with cover on worksurface

d. Cable trays and/or clips for wire management below worksurface

e. Locks at all drawers and doors, keyed [alike] to match adjacent furnishings within the same [room][area]

Traditional Edge Detail/Molding:

a. Crown/Cornice Molding: 1½-3"H with traditional profile

b. Edge Detail: Manufacturer's standard traditional profile shall include shape

c. Base Molding: 3½"H with traditional profile on top edge
d. **Picture/Panel Molding:** Manufacturer’s standard selection  
e. **Beltline Molding:** Manufacturer’s standard selection

**Transitional Edge Detail/Molding:**  
a. **Crown/Cornice Trim/Profile:** 1-3”H Shaped crown, trim or profile with transitional detailing  
b. **Edge Detail:** Manufacturer’s standard edge profile shall include shape

**Finish:**  
a. **Wood Veneer:** [Cherry or walnut] [Maple] in manufacturer’s standard stain selection shall include color  
b. **Pulls:** Manufacturer’s standard [traditional][transitional] selection  
c. **Fabric:** Manufacturer’s standard mid-grade selection shall include color  
d. **[Glass] [Acrylic]:** Manufacturer’s standard selection shall include [clear] [frosted] [patterned]

11.4 **Item No. DX01-99:** Table Desk, Wood Veneer, **Traditional**, Executive II  
Overall Dimensions: 6'-0"W x [2'-6"][3'-0"]D

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**Components:**  
a. Wood veneer top with solid hardwood edge  
b. Wood apron with minimum (1) pencil drawer  
c. [Square Chippendale] [Cabriole] Wood legs

**Finish:**  
a. **Wood Veneer:** [Cherry or walnut] [Maple] in manufacturer’s standard stain selection shall include color  
b. **Edge:** Manufacturer’s standard traditional profile selection shall include ogee or similar  
c. **Pulls:** Manufacturer’s standard traditional selection

11.5 **Item No. DR01-99:** Freestanding [L-] [U-]Shaped Reception Desk, Wood Veneer, [Traditional] [Transitional], Executive II  
Desk Overall Dimensions: 12'-0"W x 6'-0"D  
Gallery/Transaction Top Overall Dimensions: 40-42"H

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Contractor shall:  
*Confirm handedness in field.*
*Coordinate layout with existing windows, wall-mounted data boxes, etc., as applicable.

**Components:**

a. 96"W x 24-28"D Rectangular desk section with full gallery and 12-15"D transaction counter
b. (2) 72"W x 24-28"D Rectangular returns with full galleries and 12-15"D transaction counters
   i. (2) Full depth box/box/file pedestals with (1) pencil tray per pedestal and (1) drawer divider for each box drawer
c. Full height modesty panels
d. Grommets with covers on all worksurfaces
e. Cable trays and/or clips for wire management below all worksurfaces
f. Locks at all drawers, keyed [alike] to match adjacent furnishings within the same [room][area]

**Traditional Edge Detail/Molding:**

a. Edge Detail: Manufacturer’s standard traditional profile shall include shape
b. Base Molding: 3½"H with traditional profile on top edge
c. Picture/Panel Molding: Manufacturer’s standard selection
d. Beltline Molding: Manufacturer’s standard selection

**Transitional Edge Detail/Molding:**

a. Edge Detail: Manufacturer’s standard edge profile shall include shape

**Finish:**

a. Wood Veneer: [Cherry or walnut] [Maple] in manufacturer’s standard stain selection shall include color
b. Edge Detail: Manufacturer’s standard edge profile shall include shape
c. Pulls: Manufacturer’s standard [traditional] [transitional] selection

### 11.6 Item No. SC01-99: Wardrobe Storage Cabinet, Wood Veneer, [Traditional] [Transitional], Executive II

**Overall Dimensions:** 36"W x 24"D

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**General Requirements:**

a. (2) Full height, wood, lockable doors
b. Full height wardrobe compartment with coat rod and shelf in one half of unit
c. Minimum (3) adjustable shelves in other half of unit
d. When used as part of credenza assembly, height of cabinet shall match the combined height of the credenza and overhead storage unit
e. Top shall have profiled edge detail
f. Provide crown and base molding
g. Locking, keyed to match adjacent furnishings within the same [room] [area]
h. Style, detailing and finish shall match item number

**Traditional Edge Detail/Molding:**
- a. Base Molding: 3 ½" H with traditional profile
- b. Crown/Cornice Molding: 1½-3"H with traditional profile

**Transitional Edge Detail/Molding:**
- a. Crown/Cornice Trim/Profile: 1-3"H Shaped crown, trim or profile with transitional detailing

**Finish:**
- a. Wood Veneer: [Cherry or walnut] [Maple] in manufacturer’s standard stain selection shall include color
- b. Edge Detail: Manufacturer’s standard selection shall include shape
- c. Pulls: Manufacturer’s standard [traditional] [transitional] selection

11.7 **Item No. SC01-99: Storage Cabinet, Wood Veneer, [Traditional] [Transitional], Executive II**
Overall Dimensions: 36"W x 18"D x H

**Researched product lines:**
- Manufacturer – Product Line
- Manufacturer – Product Line

**General Requirements:**
- a. (2) Full height, wood, lockable, doors
- b. (4) Full width wood shelves, minimum (2) adjustable
- c. Continuous [laminate] [wood veneer] top
- d. Leveling glides
- e. Locking, keyed [randomly] [to match adjacent furnishings within the same [room] [area]
- f. Finish and style shall match adjacent storage

**Traditional Edge Detail/Molding:**
- a. Base Molding: 3 ½" H with traditional profile
- b. Crown/Cornice Molding: 1½-3"H with traditional profile
- c. Top Edge Detail: Manufacturer’s standard traditional profile shall include shape

**Transitional Edge Detail/Molding:**
- a. Crown/Cornice Trim/Profile: 1-3"H Shaped crown, trim or profile with transitional detailing
- b. Top Edge Detail: Manufacturer’s standard transitional profile selection

**Finish:**
- a. Wood Veneer: [Cherry or walnut] [Maple] in manufacturer’s standard stain selection shall include color
- b. Edge Detail: Manufacturer’s standard selection shall include shape
c. Pulls: Manufacturer’s standard [traditional] [transitional] selection

11.8 Item No. SC01-99: Hybrid Storage Tower, Wood Veneer, [Traditional] [Transitional], Executive II
Overall Dimensions: 30”W x 24”D x H

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General Requirements:
a. Closed storage with a minimum of (1) adjustable shelf and file/file below, one side
b. Full height storage cabinet with coat [rod] [hook], other side
c. Locking, keyed [randomly] [to match adjacent furnishings within the same [room] [area]
d. Finish and style shall match adjacent storage

Traditional Edge Detail/Molding:
a. Base Molding: 3 ½”H with traditional profile
b. Crown/Cornice Molding: 1½-3”H with traditional profile
c. Top Edge Detail: Manufacturer’s standard traditional profile shall include shape

Transitional Edge Detail/Molding:
a. Crown/Cornice Trim/Profile: 1-3”H Shaped crown, trim or profile with transitional detailing
b. Top Edge Detail: Manufacturer’s standard transitional profile selection

Finish:
a. Wood Veneer: [Cherry or walnut] [Maple] in manufacturer’s standard stain selection shall include color
b. Pulls: Manufacturer’s standard [traditional] [transitional] selection

11.9 Item No. SF01-99: 3-Drawer Lateral File, Wood Veneer, [Traditional] [Transitional], Executive II
Overall Dimensions: 36”W

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General Requirements:
a. Lateral file cabinet with (3) drawers
b. All drawers shall have file rails for side-to-side and front-to-back filing and shall accommodate letter, legal and/or other size folders
c. All drawers shall be locking; preferred method is one central locking system. Locks shall be keyed [randomly] [to match adjacent furnishings within the same [room] [area]
d. Leveling glides  
e. Style, detailing and finish shall match item number

**Traditional Edge Detail/Molding:**

a. Base Molding: 3 ½”H with traditional profile  
b. Top Edge Detail: Manufacturer’s standard traditional profile shall include shape

**Transitional Edge Detail/Molding:**

a. Top Edge Detail: Manufacturer’s standard transitional profile selection

**Finish:**

a. Wood Veneer: [Cherry or walnut] [Maple] in manufacturer’s standard stain selection shall include color  
b. Edge Detail: Manufacturer’s standard selection shall include shape  
c. Pulls: Manufacturer’s standard [traditional] [transitional] selection

11.10 Item No. SB01-99: 3-Shelf Bookcase, Wood Veneer, [Traditional] [Transitional], Executive II

Overall Dimensions: 36”W x 12-18”D x H

**Researched product lines:**

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**General Requirements:**

a. (2) Wood shelves, minimum (1) adjustable  
b. Fixed base shelf  
c. Leveling glides  
d. Provide crown and base molding  
e. Provide wall attachment kit  
f. Style, detailing and finish shall match item number

**Traditional Edge Detail/Molding:**

a. Base Molding: 3 ½”H with traditional profile  
b. Crown/Cornice Molding: 1½-3”H with traditional profile  
c. Top Edge Detail: Manufacturer’s standard traditional profile shall include shape

**Transitional Edge Detail/Molding:**

a. Crown/Cornice Trim/Profile: 1-3”H Shaped crown, trim or profile with transitional detailing  
b. Top Edge Detail: Manufacturer’s standard transitional profile selection

**Finish:**

a. Wood Veneer: [Cherry or walnut] [Maple] in manufacturer’s standard stain selection shall include color  
b. Edge Detail: Manufacturer’s standard selection shall include shape
11.11 Item No. SB01-99: Modular 3-Shelf Bookcase Unit, Wood Veneer, [Traditional] [Transitional], Executive II
Overall Dimensions: [36] [72] [108]"W x 12-16"D x H

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General Requirements:
- Unit consists of [(2) (3)] individual bookcase sections
- (3) Wood shelves, minimum (1) adjustable
- Fixed base shelf
- Provide bookcase top and base with moldings on sides and front of units to achieve a monolithic appearance
- Leveling glides
- Provide wall attachment kit
- Style, detailing and finish shall match item number

Traditional Edge Detail/Molding:
- Base Molding: 3 ½"H with traditional profile
- Crown/Cornice Molding: 1½-3"H with traditional profile
- Top Edge Detail: Manufacturer’s standard traditional profile shall include shape

Transitional Edge Detail/Molding:
- Crown/Cornice Trim/Profile: 1-3"H Shaped crown, trim or profile with transitional detailing
- Top Edge Detail: Manufacturer’s standard transitional profile selection

Finish:
- Wood Veneer: [Cherry or walnut] [Maple] in manufacturer’s standard stain selection shall include color
- Edge Detail: Manufacturer’s standard selection shall include shape

11.12 Item No. SC01-99: Buffet Credenza, Wood Veneer, [Traditional] [Transitional], Executive II
Overall Dimensions: 72"W x 24"D x 34-36"H

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General Requirements:
- Wood veneer top with solid wood profiled edge
- Minimum (2) box drawers or internal pull-out storage drawers
- (4) Doors
- (1) Adjustable shelf in each storage section
- Leveling glides
f. Locking, keyed [randomly] [to match adjacent furnishings within the same [room] [area]
g. Style, detailing and finish shall match item number

**Traditional Edge Detail/Molding:**
a. Base Molding: 3 ½”H with traditional profile
b. Top Edge Detail: Manufacturer’s standard traditional profile shall include shape

**Transitional Edge Detail/Molding:**
a. Top Edge Detail: Manufacturer’s standard transitional profile selection

**Finish:**
a. Wood Veneer: [Cherry or walnut] [Maple] in manufacturer’s standard stain selection shall include color
b. Edge Detail: Manufacturer’s standard selection shall include shape
c. Pulls: Manufacturer’s standard [traditional] [transitional] selection

11.13 Item No. SC01-99: Modular Storage Credenza with Media Cabinet, Wood Veneer, [Traditional] [Transitional], Executive II
Overall Dimensions: 96”W x 24”D x 67-74”H

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**General requirements:**
a. Multiple units may be used to achieve overall width which can include, but are not limited to:
   i. Combination of base units with desk-mounted media and storage cabinets; tops for base units shall be continuous with the full width of the piece
   ii. All full-height units
   iii. Combination of full height media/AV cabinets and base units with desk-mounted storage cabinets
b. Locking, keyed [randomly] [to match adjacent furnishings within the same [room] [area]

**Credenza Storage Components:**
a. (2) 30”W 2-Drawer lateral file sections
b. Storage section with (2) doors and (1) adjustable shelf
c. Leveling glides

**Upper Storage Components:**
a. (2) 30”W Open bookcase sections, each with (2) adjustable shelves
b. (2) 30”W Bookcase sections each with [glass] [metal grille insert] doors and (2) adjustable shelves
c. (1) 36”W x 24”D x 38”H Media cabinet with wire access grommet and ventilation slots
d. Doors shall open 165 degrees or be pocket style

Traditional Edge Detail/Molding:
   a. Base Molding: 3 ½" H with traditional profile
   b. Crown/Cornice Molding: 1½-3” H with traditional profile
   c. Top Edge Detail: Manufacturer’s standard traditional profile shall include shape

Transitional Edge Detail/Molding:
   a. Crown/Cornice Trim/Profile: 1-3“ H Shaped crown, trim or profile with transitional detailing
   b. Top Edge Detail: Manufacturer’s standard transitional profile selection

Finish:
   a. Wood Veneer: [Cherry or walnut] [Maple] in manufacturer’s standard stain selection shall include color
   b. Edge Detail: Manufacturer’s standard selection shall include shape
   c. Pulls: Manufacturer’s standard [traditional] [transitional] selection
   d. [Glass] [Acrylic]: Manufacturer’s standard selection shall include [clear] [frosted] [patterned]

11.14 Item No. AV01-99: Mobile Multi-Media Lectern, Wood Veneer, [Traditional] [Transitional]
   Overall Dimensions: [23-28] [30-34]” W x 24” D x 44-47” H

**Researched product lines:**

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General Requirements:
   a. Angled writing surface with pencil lip
   b. Fixed shelf below writing surface
   c. Pull-out shelf/keyboard tray below writing surface
   d. Storage section with doors and minimum (1) adjustable and (1) fixed shelf
   e. Task light
   f. Microphone
   g. Power/Data module with minimum (2) simplex outlets and (2) data ports
   h. Plug strip with minimum (4) outlets
   i. Grommet or wire way in side or bottom
   j. (4) Casters, minimum (2) locking
   k. Shall have [traditional] [transitional] style detailing to match adjacent wood casegoods

Finish:
   a. Wood Veneer: [Cherry or walnut] [Maple] in manufacturer’s standard stain selection shall include color
   b. Edge Detail: Manufacturer’s standard selection shall include shape
   c. Pulls: Manufacturer’s standard [traditional] [transitional] selection
12.0 Construction Requirements - Wood Casegoods, Executive III [– NOT USED]

Warranty Requirements:

1. 10 year.
2. 5 year – Wood Veneer.
3. 1 year or manufacturer’s standard – Electrical Components and Lift Mechanism.

Testing and Standards:

ANSI/BIFMA X5.5-2014 Desk/Table Products
ANSI/BIFMA X5.9-2012 Storage Units

Material
1. ANSI 208.1-2009 Particleboard Classifications.
2. ANSI A208.2-2009 Medium Density Fiberboard.

Referenced Standards

Environmental and Sustainability
1. All proposed products shall be certified as compliant with Indoor Air Quality (IAQ) requirements and shall meet or exceed ANSI/BIFMA X7.1-2011 (R2016)-VOC.
2. The product submitted shall have certification for Indoor Air Quality (Greenguard Gold or equivalent).

General Requirements:

1. Worksurfaces shall be fully supported by floor-standing pedestals or other supports such as brackets, legs, panels, etc., following the manufacturer’s standard practices for the size, type and placement. Size and placement of supports shall not interfere with kneespace clearances. All pedestals and supports shall be indicated on the drawings and in the component listing.

2. Traditional wood casegoods cover a range of historical style influences such as Chippendale, Sheraton, Hepplewhite, and other Georgian and Neo-Classic styles. Elements such as crown and base molding for desks and storage, accent moldings, and traditionally shaped edge profiles on worksurfaces are integral parts of this style. Styling details for these casegoods shall be selected to provide a unified, traditional aesthetic throughout the space. Transitional wood casegoods blend the light, clean lines of contemporary styling with the influence of traditional period styling without appearing heavy or bulky. Elements such as base molding or trim (if present), crown molding or cornice/profiled trim, and worksurface edge details may be simpler than their traditional counterparts and may be curvilinear or rectilinear in design. They
may also be smaller than traditional moldings and have a smaller projection from the face of the piece on which they are applied. Ornamentation such as picture mold or other overlay moldings are not appropriate to this style. [Contemporary wood casegoods have light, clean geometric shapes with no ornamentation except for simple edge detailing on worksurfaces when required.]

3. All wood desk components and wood storage components within a room shall be from the same manufacturer.

4. All casegood components located [throughout an entire building] [within a room/office] shall have a consistent finish and color.

5. The finish color shall match on all components within a room.

6. All wood shall be of the same species, except contrasting wood species shall be permitted for decorative accents and inlays.

7. Desk products shall be standard with central locking; only one lock shall be required to secure all drawers or doors in a unit.

8. All desk components shall have adjustable glides with a minimum adjustment of ¾”.

9. Provide all brackets and hardware to ensure proper installation and stability of products.

10. Clips, brackets, screws, and other construction and attachment elements shall be concealed.

Veneer Components:

General Requirements:
1. Veneers shall be “natural”. “Composite” or “reconstituted veneer” shall not be acceptable.

2. Drawer fronts shall have a vertically matched veneer within each pedestal set.

3. Veneer thickness shall be 0.4 - 0.7mm.

4. All segments in one panel shall be the same size, except the two outside edge segments can be narrower to visually balance the panel. Any cathedral grain pattern shall be centered within the flitch.

5. All veneer plates on one panel shall come from the same flitch of veneer; mismatched plates shall be considered non-conforming.

6. The grain direction on exterior panels, including doors and drawers, shall be vertical, with cathedral peaks pointed toward the top of the panel.

7. The grain direction on straight and extended corner worksurfaces shall run parallel to the long dimension of the worksurface, and shall have a visual balance in the wood grain pattern in both width and depth.

8. The veneer on a separate corner worksurface shall run parallel to the 45 degree user edge.

9. Wood veneer surfaces shall be bonded to the core with a PVA or other low VOC adhesive utilizing either a hot or cold press process to ensure complete lamination to the core.

10. Products shall be available in “semi-open pore” or “full-fill” finishes.

11. No unfilled worm holes, spike knots, veneer patches, bark pockets, torn grain, open splits, rough cuts, or ruptured grain shall be permitted on exposed surfaces, except as otherwise noted below.
Premium Visibility Surface Requirements:
1. Premium visibility surfaces include the following:
   a. Worksurfaces and storage tops 29"H
   b. Drawer and door fronts
2. Wood veneer for these surfaces shall conform to the following requirements:
   a. Plain-sliced (flat-cut)
   b. Cathedrals shall be centered in segment
   c. Split heart shall be permitted if a man-made cathedral is achieved
   d. Cathedrals with wild grain that deviates from the desired arc shape shall be minimal and shall have less than four concave (opposite the cathedral direction) points per cathedral line
   e. The average sapwood content for cherry and walnut veneer shall be from 0-5%, with no more than 20% maximum on any individual furniture item. Sapwood areas shall be treated and toned to be uniform in color with adjacent heartwood areas
   f. Slight color and/or mineral streaks that run parallel to the grain shall be permitted
   g. Slight color variation with no sharp contrast shall be permitted
   h. Veneer shall be book or slip matched
   i. Minimum nominal segment width shall be 5"
   j. Conspicuous pin knots shall be ¼" maximum diameter with the dark portion no greater than ⅛" diameter; conspicuous burls shall be ⅜" diameter maximum. Average combined quantity shall not exceed 10 per 32 sq. ft. for maple and 24 per 32 sq. ft. for cherry and walnut
   k. Birdseye in maple shall be scattered with no clusters
   l. Slight sugar in maple shall be permitted. Sugar streaks shall be parallel to the grain and shall be lighter than the darkest cathedral
   m. Occasional sound and scattered gum spots in cherry shall be permitted
   n. Slight worm tracks parallel to the grain and lighter than the darkest cathedral shall be permitted
   o. Occasional vine marks and cross bars shall be permitted
   p. Bull’s eye shall not be permitted in walnut
   q. A maximum of two repaired hairline splits no larger than 1/16" x 6" shall be permitted
   r. Small blending repairs shall be permitted

High Visibility Surface Requirements:
1. High visibility surfaces include the following:
   a. Tops of mobile pedestals
   b. Exterior face of modesty panels, pedestals and overhead storage end panels
   c. Exterior ends of overhead storage cabinets, wardrobe and storage cabinets and lateral files
2. Wood veneer for these surfaces shall conform to the following requirements:
   a. Plain-sliced (flat-cut)
   b. Cathedrals shall be centered in segment
   c. Split heart shall be permitted if a manufactured cathedral is achieved
d. Cathedrals with wild grain that deviates from the desired arc shape shall be permitted and shall have less than four concave (opposite the cathedral direction) points per cathedral line  
e. The average sapwood content for cherry and walnut veneer shall be from 0-5%, with no more than 20% maximum on any individual furniture item. Sapwood areas shall be treated and toned to be uniform in color with adjacent heartwood areas  
f. Color and/or mineral streaks that run parallel to the grain shall be permitted. Mineral streaks in maple shall be blending  
g. Slight color variation with no sharp contrast shall be permitted  
h. Veneer shall be slip matched  
i. Minimum nominal segment width shall be 3”  
j. Conspicuous pin knots shall be ¼” maximum diameter with the dark portion no greater than ⅛” diameter; conspicuous burls shall be ½” maximum diameter. Average combined quantity shall not exceed 10 per 32 sq. ft. for maple and 64 per 32 sq. ft. for cherry and walnut  
k. Scattered sound and repaired knots shall be permitted. Sound knots shall be ⅜” maximum diameter; repaired knots shall be ⅛” maximum diameter. The combined average number shall be no more than 4 per 32 sq. ft.  
l. Birdseye in maple shall be permitted; clusters shall not be heavy  
m. Occasional sugar in maple shall be permitted. Sugar streaks shall be parallel to the grain and shall be lighter than the darkest cathedral  
n. Occasional sound and scattered gum spots and streaks in cherry shall be permitted  
o. Slight worm tracks parallel to the grain and lighter than the darkest cathedral shall be permitted  
p. Vine marks and cross bars shall be permitted  
q. Bull’s eye shall be permitted in walnut  
r. A maximum of four repaired hairline splits no larger than ⅛” x 8” shall be permitted  
s. Slight rough cut/ruptured grain shall be permitted  
t. Blending repairs shall be permitted

Moderate Visibility Surface Requirements:  
1. Moderate visibility surfaces include the following:  
a. Interior face of modesty panels and both faces of overhead storage end panels  
b. Interior faces and shelves of bookcases  
c. Interior of overhead storage cabinets, wardrobes and storage cabinets  
2. Wood veneer for these surfaces shall conform to the following requirements:  
a. Plain-sliced (flat-cut)  
b. Split heart shall be permitted  
c. 20% sapwood shall be permitted for cherry and walnut. Sapwood areas shall be treated and toned to be uniform in color with adjacent heartwood areas  
d. Color and/or mineral streaks that run parallel to the grain shall be permitted. Mineral streaks in maple shall be blending  
e. Color variation with some contrast shall be permitted  
f. Veneer shall be slip matched
g. Minimum nominal segment width shall be 3”
h. Conspicuous burls and pin knots in cherry and walnut shall be permitted
i. Birdseye in maple shall be permitted
j. Sugar in maple shall be permitted. Sugar streaks shall be parallel to the grain
   and shall be lighter than the darkest cathedral
k. Scattered sound and repaired knots less than ½” diameter shall be permitted.
   The combined average number shall not exceed 8 per 32 sq. ft.
l. Gum spots in cherry shall be permitted
m. Few bark pockets not to exceed ¼” x 2” shall be permitted
n. Worm tracks in cherry and walnut shall not be permitted
o. Vine marks and cross bars shall be permitted
p. Bull’s eye shall be permitted in walnut
q. A maximum of four repaired hairline splits no larger than ¼” x 8” shall be permitted
r. Slight rough cut/ruptured grain shall be permitted

**Solid Wood Components:** (Visible components only)

1. Solid wood components shall be kiln dried with moisture content from 5-10%.
2. All solid wood shall be compatible for color and grain.
3. Unlimited sound, scattered birdseye in maple shall be permitted.
4. Sound knots shall be no more than ¼” in diameter.
5. Mineral stain shall not exceed 10% of the face.
6. Sapwood in cherry and walnut shall be less than 5% of the face.
7. Worm holes less than 1/16” shall be permitted.
8. No bark pockets, honeycomb, pitch pockets or streaks, sticker discoloration, mineral
   stain, or shake shall be allowed.

**Component Construction:**

1. All casegood components shall be constructed of a Grade M2 or M3 particleboard
   core with veneer on exposed faces and a backer sheet on unexposed faces.
2. Desks and other products with chassis construction shall be assembled using tenon
   & groove or equal construction methods, and be reinforced with hardwood cleats or
   a similar method of reinforcement.
3. Pedestals shall be assembled with tenon and groove construction or dowels; dowel
   construction shall be reinforced with corner brackets and stretcher bars for stability.
4. Desk pedestals shall be the full nominal depth of the worksurface unless limited by
   wire access cavities or overhangs.
5. Back panels on freestanding storage cabinets shall be let into the sides so that no
   raw edges are visible.
6. Tops and ends of storage units shall be securely connected with metal fasteners and
   hardwood biscuits.

**Drawers:**
1. Drawer fronts shall be solid wood or a veneered panel. Veneered drawer fronts shall be completely finished on all edges, and edges shall have the same final top coat as the desk.

2. Drawers shall be 5-sided with a separate, removable front for field replacement without disturbing the contents of the drawer.

3. Drawer sides and backs shall be a minimum ½” thick particleboard with veneer faces assembled with dowels. Variance from the thickness requirement for file drawer sides shall only be permitted when the metal file rails attached to the top drawer edge require the dimension to be less. In no instance shall the thickness of the drawer side be reduced to less than ¾”.

4. Drawer bottoms shall be a 3-ply construction of particleboard, medium density fiberboard or similarly engineered wood core, with a veneer or melamine face and a backer sheet on the underside of the panel. Drawer bottoms shall be let into all sides of the drawer with a rabbet joint, glued and stapled.

5. File drawers shall have full extension ball bearing slides with a dampened start/stop feature and a positive stop.

6. Box drawers shall have the same slides as file drawers, except that the suspension must allow access to a minimum 3/4 of the drawer’s depth.

7. File drawers shall have full height sides with metal file rails for front-to-back and side-to-side filing.

8. File drawers and hanging systems shall support hanging file folders without the folders binding or falling through and shall allow the drawer to close with index tabs in place.

9. Drawers of a composite core miter-fold construction, laminated with vinyl material, shall be considered non-conforming.

10. File drawers that require a separate metal file frame to accommodate hanging folders shall be considered non-conforming.

**Worksurfaces and Tops:**

1. Worksurfaces shall be constructed of a Grade M2 or M3 particleboard core or a 45 lb. medium density fiberboard core with veneer on the face and a backer material on the underside. Worksurfaces shall be a minimum 1 3/16” thick.

2. Worksurfaces shall be connected to the chassis/pedestals with steel angle brackets or a similar method of attachment.

3. Worksurfaces and tops shall have hardwood edges with profiles or a solid wood edge band. Species of edge shall match the species of veneer used on the worksurface, except solid maple shall be acceptable in lieu of solid cherry edges.

4. All visible and exposed worksurface perimeters shall have consistent profiles.

5. Worksurfaces shall be available with factory or field installed grommets. Grommets shall be a minimum of 1¼” in diameter, include covers and inserts, and shall have a low profile.

6. Bridges, returns and run-off worksurfaces shall have a coped edge for a smooth transition to adjoining worksurfaces.

7. **Adjustable height worksurfaces shall align adjacent or adjoining worksurface and within a ¼” tolerance.**
Modesty Panels, End Panels and Supports:

1. Modesty panels shall be available for return worksurfaces.
2. End panels shall be capable of supporting the worksurface without modesty or back panels.

Overhead Storage Units:

1. Doors shall have concealed European style hinges with a minimum opening of 95 degrees.
2. The minimum height from the worksurface to the bottom of the hutch shall be 18".
3. Shall be securely attached to worksurfaces with industrial grade double-stick tape.

Freestanding Storage:

1. Lateral file and hybrid storage cabinet drawers shall conform to the drawer construction requirements for pedestals.
2. Lateral file cabinets shall be standard with an interlock mechanism to prevent more than one drawer opening at one time.
3. Lateral file and hybrid storage cabinets shall be standard with central locking; only one lock shall be required to secure all drawers and/or doors in a unit.
4. Doors shall have concealed European style hinges with a minimum opening of 95 degrees.
5. Doors on media cabinets for video screens or TV storage shall have pocket doors that retract and store in the cabinet or hinges that allow doors to open fully for unobstructed viewing of the screen.
6. Storage cabinet and bookcase shelves shall be adjustable on 1½" centers.
7. The interior cabinet depth of wardrobes shall accommodate a coat rod for shoulder-out hanging of garments using standard coat hangers, except when required depth is less than 24".
8. Wardrobe or storage cabinets in modular desk assemblies shall match the combined total height of the adjacent return or credenza plus the overhead storage unit.
9. Drawer fronts shall have a vertically matched veneer within each pedestal set.
10. All shelves located within a bookcase shall be 10 -13"H.

Task Lighting:

1. Task lights shall be a standard component of the manufacturer's furniture products.
2. Task lights shall recess into the bottom of overhead cabinets and shelves or be shielded by a valance or trim board to fully conceal the fixture.
3. Task lights shall be sized to provide even illumination over the length of the worksurface. Task lighting for 72" wide overhead storage units shall be no less than 48" wide.
4. All other task lights shall be sized appropriately for the overhead storage bin.
5. LED task lights shall have a minimum 50,000-hour life span and 3500K color temperature.
6. Depending on the task light length, LED Color Rendering Index (CRI) shall range from 83-84.
7. Electronic ballasts shall be provided to eliminate fluorescent lamp flicker and computer screen interference. Shared ballasts shall not be used.
8. Task lights shall provide glare control.
9. Task lights shall have an easily accessible on-off switch.
10. Daisy chain cords shall be available for the modular connection of shelf lights.
11. Fluorescent lamps shall be Energy Star rated.
12. All fixture diffusers, grilles or other coverings shall be easily removable to permit cleaning and replacement.
13. Task lights shall be UL or ETL listed and labeled.
14. Task lights shall have CE mark.

Trim and Moldings:

1. All trim moldings shall be solid hardwood. Shaped, veneer- wrapped MDF components shall be considered non-conforming.
2. Crown/Cornice molding or profiled trim shall be securely attached with glue and concealed mechanical fasteners. Where molding or trim wraps the sides of a piece, corners shall be mitered and joints shall be tight, flush and glued for stability.
3. Base molding shall be applied to the front, back and sides of desks, end panels, modesty panels, and the bases of columns or panel supports; corners shall be mitered and joints shall be tight and glued for stability.
4. If glass insert is used, solid hardwood frame shall be fully finished on interior and exterior; raw edges will be considered non-conforming.
5. If glass insert is used in a wood door, wood shall be fully finished; raw edges will be considered non-conforming.
6. Full glass door with metal frame

Adjustable Height Desks – Electrical Applications:

1. Weight capacity shall be minimum of 200 lbs., including top.
2. Height adjustment mechanism:
   i. Adjustment speed shall be a minimum of 1.4” per second.
   ii. Mechanism shall have safety stops.
   iii. Motor shall be enclosed and UL or ETL listed.
   iv. Mechanism shall have CE mark.
3. All electric components shall be compatible with 230V/50HZ [German][Belgium][Italian] power and manufactured with a Schuko Type F plug.

General Power Requirements:

1. Where indicated, adjustable height worksurfaces shall have a hinged door or removable panel that can provide access to electrical wiring, data and communication cables, and allows for reconfiguration of these connections.
2. Field or factory installed metal grommets shall be available. Grommets shall be a minimum 1¾” in diameter with covers and inserts and shall have a low profile.
3. Electrical components shall be manufactured in compliance with NEC regulations and shall be UL approved.
4. Power/Data port modules shall be recessed from view and accessed via a touch latch or a hinged or sliding cover.
5. Module shall have CE mark.
6. All electric components shall be compatible with 230V/50HZ [German][Belgium][Italian] power and manufactured with a Schuko Type F plug.

12.1 Item No. DL01-99: Freestanding L-Shaped Desk, Wood Veneer, [Traditional] [Transitional], Executive III
Overall Dimensions: 6'-0"W x 6'-0"D

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Contractor shall:
*Confirm handedness in field.

*Coordinate layout with existing windows, wall-mounted data boxes, etc., as applicable.

Components:
a. 72"W x 36"D Rectangular desk with overhang
   i. 30"D Box/box/file or Pencil/box/file pedestal with (1) pencil tray per pedestal and (1) drawer divider for each box drawer
   ii. Center drawer
   iii. Full height breakfront modesty panel
b. 42"W x 24"D Rectangular return
   i. 24"D File/file pedestal
   ii. [Partial height] [Full height hinged or removable] modesty panel
c. 72"W Double-high Overhead storage unit with hinged doors, mounted above return
   i. Doors shall have [metal grille][glass][acrylic] inserts
   ii. Energy saving [task] [LED] light with vertical wire management and power cord long enough to reach power source
      1. Provide task light with occupancy sensor; sensor shall be installed facing user
   iii. Full width and full height tack board below upper storage components
d. [18][24]"W Wardrobe unit:
   i. Coat rod and shelf
   ii. Height shall match combined total height of desk and credenza
   iii. Depth shall match worksurface depth
e. Grommets with covers on all worksurfaces
f. Cable trays and/or clips for wire management below all worksurfaces
g. Locks at all drawers and doors, keyed [alike] to match adjacent furnishings within the same [room][area]

Traditional Edge Detail/Molding:
a. Crown/Cornice Molding: 1½-3”H with traditional profile  
b. Edge Detail: Manufacturer’s standard traditional profile shall include shape  
c. Base Molding: 3½”H with traditional profile on top edge  
d. Picture/Panel Molding: Manufacturer’s standard selection  
e. Beltline Molding: Manufacturer’s standard selection

**Transitional Edge Detail/Molding:**  
a. Crown/Cornice Trim/Profile: 1-3”H Shaped crown, trim or profile with transitional detailing  
b. Edge Detail: Manufacturer’s standard edge profile shall include shape

**Finish:**  
a. Wood Veneer: [Cherry or walnut] [Maple] in manufacturer’s standard stain selection shall include color  
b. Pulls: Manufacturer’s standard [traditional][transitional] selection  
c. Fabric: Manufacturer’s standard mid-grade selection shall include color  
d. [Glass] [Acrylic]: Manufacturer’s standard selection shall include [clear] [frosted] [patterned]

12.2 Item No. DU01-99: Freestanding U-Shaped Desk, Wood Veneer, [Traditional] [Transitional], Executive III  
Overall Dimensions: 6’-0”W x 6’-0”D

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Contractor shall:  
*Confirm handedness in field.  
*Coordinate layout with existing windows, wall-mounted data boxes, etc., as applicable.

**Components:**  
a. 72”W x 36”D [Bow front] [Rectangular] desk with 6”overhang  
   i. Center drawer  
   ii. 30”D Box/box/file or Pencil/box/file pedestal with (1) pencil tray per pedestal and (1) drawer divider for each box drawer  
   iii. Full height breakfront modesty panel  
b. 42”W x 24”D Rectangular bridge  
   i. [Partial height] [Full height hinged or removable] [No] modesty panel  
c. 72”W x 24”D Rectangular credenza  
   i. 24”D File/file pedestal  
   ii. [Partial height] [Full height hinged or removable] [No] modesty panel  
d. 72”W Double-high Overhead storage unit with hinged doors  
   i. Doors shall have [metal grille][glass][acrylic] inserts  
   ii. Energy saving [task] [LED] light with vertical wire management and power cord long enough to reach power source
1. Provide task light with occupancy sensor; sensor shall be installed facing user
   iii. Full width and full height tack board below upper storage components
   e. Grommets with covers on all worksurfaces
   f. Cable trays and/or clips for wire management below all worksurfaces
   g. Locks at all drawers and doors, keyed [alike] to match adjacent furnishings within the same [room][area]

Traditional Edge Detail/Molding:
   a. Crown/Cornice Molding: 1½-3"H with traditional profile
   b. Edge Detail: Manufacturer’s standard traditional profile shall include shape
   c. Base Molding: 3½”H with traditional profile on top edge
   d. Picture/Panel Molding: Manufacturer’s standard selection
   e. Beltline Molding: Manufacturer’s standard selection

Transitional Edge Detail/Molding:
   a. Crown/Cornice Trim/Profile: 1-3”H Shaped crown, trim or profile with transitional detailing
   b. Edge Detail: Manufacturer’s standard edge profile shall include shape

Finish:
   a. Wood Veneer: [Cherry or walnut] [Maple] in manufacturer’s standard stain selection shall include color
   b. Pulls: Manufacturer’s standard [traditional][transitional] selection
   c. Fabric: Manufacturer’s standard mid-grade selection
   d. [Glass] [Acrylic]: Manufacturer’s standard selection shall include [clear] [frosted] [patterned]

12.3 Item No. DD01-99: Freestanding [Single] [Double] Pedestal Desk and Credenza, Wood Veneer, [Traditional] [Transitional], Executive III
   Overall Footprint: 6’-0”W x 6’-0”D

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Contractor shall:
*Coordinate layout with existing windows, wall-mounted data boxes, etc., as applicable.

Desk Components:
   a. 72"W x 36"D [Bow front] [Rectangular] desk with 6” overhang
      i. Center drawer
      ii. Full height breakfront modesty
      iii. (2) 30"D Box/box/file pedestals with (1) pencil tray per pedestal and (1) drawer divider for each box drawer
      iv. (1) 30"D Box/box/file pedestal and (1) 30”D File/file pedestal with (1) pencil tray per pedestal and (1) drawer divider for each box drawer
b. 72"W Double-high Overhead storage unit with hinged doors
   i. Doors shall have [metal grille][glass][acrylic] inserts
   ii. Energy saving [task] [LED] light with vertical wire management and power cord long enough to reach power source
       1. Provide task light with occupancy sensor; sensor shall be installed facing user
   iii. Full width and full height tack board below upper storage components

Credenza Components:
   a. 72"W x 24"D Rectangular credenza
      i. [Storage credenza with (4) doors and adjustable shelf] [Knee-space credenza with (2) file/file pedestals]
   b. 72"W Double-high Overhead storage unit with hinged doors
      i. Doors shall have [metal grille][glass][acrylic] inserts
      ii. Energy saving [task] [LED] light with vertical wire management and power cord long enough to reach power source
           1. Provide task light with occupancy sensor; sensor shall be installed facing user
      iii. Full width and full height tack board below upper storage components
      iv. (2) Open Bookcase sections with glass doors, adjustable shelves at each end of the unit, and an open section in middle with accent light and valance or trim board to conceal light. Provide power cord long enough to reach power source; cord shall not be visible on interior of cabinet
   c. Grommet with cover on worksurface
   d. Cable trays and/or clips for wire management below worksurface
   e. Locks at all drawers and doors, keyed [alike] to match adjacent furnishings within the same [room][area]

Traditional Edge Detail/Molding:
   a. Crown/Cornice Molding: 1½-3"H with traditional profile
   b. Edge Detail: Manufacturer’s standard traditional profile shall include shape
   c. Base Molding: 3½"H with traditional profile on top edge
   d. Picture/Panel Molding: Manufacturer’s standard selection
   e. Beltline Molding: Manufacturer’s standard selection

Transitional Edge Detail/Molding:
   a. Crown/Cornice Trim/Profile: 1-3"H Shaped crown, trim or profile with transitional detailing
   b. Edge Detail: Manufacturer’s standard edge profile shall include shape

Finish:
   a. Wood Veneer: [Cherry or walnut] [Maple] in manufacturer’s standard stain selection shall include color
b. Pulls: Manufacturer's standard [traditional][transitional] selection

c. Fabric: Manufacturer’s standard mid-grade selection shall include color

d. [Glass] [Acrylic]: Manufacturer’s standard selection shall include [clear] [frosted] [patterned]

12.4 Item No. DX01-99: Table Desk, Wood Veneer, Traditional, Executive III
Overall Dimensions: 6'-0"W x [2'-6"][3'-0"]D

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Components:
| a. Wood veneer top with solid hardwood edge |
| b. Wood apron with minimum (1) pencil drawer |
| c. [Square Chippendale] [Cabriole] Wood legs |

Finish:
| a. Wood Veneer: [Cherry or walnut] [Maple] in manufacturer’s standard stain selection shall include color |
| b. Edge: Manufacturer’s standard traditional profile selection shall include ogee or similar |
| c. Pulls: Manufacturer’s standard traditional selection |

12.5 Item No. DR01-99: Freestanding [L-] [U-]Shaped Reception Desk, Wood Veneer, [Traditional] [Transitional], Executive III
Desk Overall Dimensions: 12'-0"W x 6'-0"D
Gallery/Transaction Top Overall Dimensions: 40-42"H

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Contractor shall:
*Confirm handedness in field.
*Coordinate layout with existing windows, wall-mounted data boxes, etc., as applicable.

Components:
| a. 96"W x 24-28"D Rectangular desk section with full gallery and 12-15"D transaction counter |
| b. (2) 72"W x 24-28"D Rectangular returns with full galleries and 12-15"D transaction counters |
| ii. (2) Full depth box/box/file pedestals with (1) pencil tray per pedestal and (1) drawer divider for each box drawer |
| c. Full height modesty panels |
| d. Grommets with covers on all worksurfaces |
e. Cable trays and/or clips for wire management below all worksurfaces
f. Locks at all drawers, keyed [alike] to match adjacent furnishings within the same [room][area]

**Traditional Edge Detail/Molding:**
- a. Edge Detail: Manufacturer’s standard traditional profile shall include shape
- b. Base Molding: 3½”H with traditional profile on top edge
- c. Picture/Panel Molding: Manufacturer’s standard selection
- d. Beltline Molding: Manufacturer’s standard selection

**Transitional Edge Detail/Molding:**
- a. Edge Detail: Manufacturer’s standard edge profile shall include shape

**Finish:**
- a. Wood Veneer: [Cherry or walnut] [Maple] in manufacturer’s standard stain selection shall include color
- b. Edge Detail: Manufacturer’s standard edge profile shall include shape
- c. Pulls: Manufacturer's standard [traditional] [transitional] selection

### 12.6 Item No. SC01-99: Wardrobe Storage Cabinet, Wood Veneer, [Traditional] [Transitional], Executive III
Overall Dimensions: 36"W x 24"D

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**General Requirements:**
- a. (2) Full height, wood, lockable doors
- b. Full height wardrobe compartment with coat rod and shelf in one half of unit
- c. Minimum (3) adjustable shelves in other half of unit
- d. When used as part of credenza assembly, height of cabinet shall match the combined height of the credenza and overhead storage unit
- e. Top shall have profiled edge detail
- f. Provide crown and base molding
- g. Locking, keyed to match adjacent furnishings within the same [room] [area]
- h. Style, detailing and finish shall match item number

**Traditional Edge Detail/Molding:**
- a. Base Molding: 3 ½”H with traditional profile
- b. Crown/Cornice Molding: 1½-3”H with traditional profile

**Transitional Edge Detail/Molding:**
- a. Crown/Cornice Trim/Profile: 1-3”H Shaped crown, trim or profile with transitional detailing

**Finish:**
a. Wood Veneer: [Cherry or walnut] [Maple] in manufacturer’s standard stain selection shall include color
b. Edge Detail: Manufacturer’s standard selection shall include shape
c. Pulls: Manufacturer’s standard [traditional] [transitional] selection

12.7 Item No. SC01-99: Storage Cabinet, Wood Veneer, [Traditional] [Transitional], Executive III
Overall Dimensions: 36"W x 18"D x H

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General Requirements:

a. (2) Full height, wood, lockable, doors
b. (4) Full width wood shelves, minimum (2) adjustable
c. Continuous [laminate] [wood veneer] top
d. Leveling glides
e. Locking, keyed [randomly] [to match adjacent furnishings within the same [room] [area]]
f. Finish and style shall match adjacent storage

Traditional Edge Detail/Molding:

a. Base Molding: 3 ½"H with traditional profile
b. Crown/Cornice Molding: 1½-3"H with traditional profile
c. Top Edge Detail: Manufacturer’s standard traditional profile shall include shape

Transitional Edge Detail/Molding:

a. Crown/Cornice Trim/Profile: 1-3"H Shaped crown, trim or profile with transitional detailing
b. Top Edge Detail: Manufacturer’s standard transitional profile selection

Finish:

a. Wood Veneer: [Cherry or walnut] [Maple] in manufacturer’s standard stain selection shall include color
b. Edge Detail: Manufacturer’s standard selection shall include shape
c. Pulls: Manufacturer’s standard [traditional] [transitional] selection

12.8 Item No. SC01-99: Hybrid Storage Tower, Wood Veneer, [Traditional] [Transitional], Executive III
Overall Dimensions: 30"W x 24"D x H

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General Requirements:
a. Closed storage with a minimum of (1) adjustable shelf and file/file below, one side
b. Full height storage cabinet with coat [rod] [hook], other side
c. Locking, keyed [randomly] [to match adjacent furnishings within the same [room] [area]
d. Finish and style shall match adjacent storage

**Traditional Edge Detail/Molding:**
- a. Base Molding: 3 ½"H with traditional profile
- b. Crown/Cornice Molding: 1½-3"H with traditional profile
- c. Top Edge Detail: Manufacturer’s standard traditional profile shall include shape

**Transitional Edge Detail/Molding:**
- a. Crown/Cornice Trim/Profile: 1-3"H Shaped crown, trim or profile with transitional detailing
- b. Top Edge Detail: Manufacturer’s standard transitional profile selection

**Finish:**
- a. Wood Veneer: [Cherry or walnut] [Maple] in manufacturer’s standard stain selection shall include color
- b. Pulls: Manufacturer’s standard [traditional] [transitional] selection

12.9 Item No. SF01-99: 3-Drawer Lateral File, Wood Veneer, [Traditional] [Transitional], Executive III
Overall Dimensions: 36”W

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**General Requirements:**
- a. Lateral file cabinet with (3) drawers
- b. All drawers shall have file rails for side-to-side and front-to-back filing and shall accommodate letter, legal and/or other size folders
- c. All drawers shall be locking; preferred method is one central locking system. Locks shall be keyed [randomly] [to match adjacent furnishings within the same [room] [area]
- d. Leveling glides
- e. Style, detailing and finish shall match item number

**Traditional Edge Detail/Molding:**
- a. Base Molding: 3 ½"H with traditional profile
- b. Top Edge Detail: Manufacturer’s standard traditional profile shall include shape

**Transitional Edge Detail/Molding:**
- a. Top Edge Detail: Manufacturer’s standard transitional profile selection

**Finish:**
a. Wood Veneer: [Cherry or walnut] [Maple] in manufacturer’s standard stain selection shall include color
b. Edge Detail: Manufacturer’s standard selection shall include shape
c. Pulls: Manufacturer's standard [traditional] [transitional] selection

12.10 Item No. SB01-99: 3-Shelf Bookcase, Wood Veneer, [Traditional] [Transitional], Executive III
Overall Dimensions: 36"W x 12-18"D x H

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General Requirements:
a. (2) Full width wood shelves, minimum (1) adjustable
b. Fixed base shelf
c. Leveling glides
d. Provide crown and base molding
e. Provide wall attachment kit
f. Style, detailing and finish shall match item number

Traditional Edge Detail/Molding:
a. Base Molding: 3 ½"H with traditional profile
b. Crown/Cornice Molding: 1⅜-3"H with traditional profile
c. Top Edge Detail: Manufacturer’s standard traditional profile shall include shape

Transitional Edge Detail/Molding:
a. Crown/Cornice Trim/Profile: 1-3"H Shaped crown, trim or profile with transitional detailing
b. Top Edge Detail: Manufacturer’s standard transitional profile selection

Finish:
a. Wood Veneer: [Cherry or walnut] [Maple] in manufacturer’s standard stain selection shall include color
b. Edge Detail: Manufacturer’s standard selection shall include shape

12.11 Item No. SB01-99: Modular 3-Shelf Bookcase Unit, Wood Veneer, [Traditional] [Transitional], Executive III
Overall Dimensions: [36] [72] [108]"W x 12-16"D x H

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General Requirements:
a. Unit consists of [(2) (3)] individual bookcase sections
b. (3) Wood shelves, minimum (1) adjustable
c. Fixed base shelf  
d. Provide bookcase top and base with moldings on sides and front of units to achieve a monolithic appearance  
e. Leveling glides  
f. Provide wall attachment kit  
g. Style, detailing and finish shall match item number

**Traditional Edge Detail/Molding:**  
a. Base Molding: 3 ½"H with traditional profile  
b. Crown/Cornice Molding: 1½-3"H with traditional profile  
c. Top Edge Detail: Manufacturer’s standard traditional profile shall include shape

**Transitional Edge Detail/Molding:**  
a. Crown/Cornice Trim/Profile: 1-3"H Shaped crown, trim or profile with transitional detailing  
b. Top Edge Detail: Manufacturer’s standard transitional profile selection

**Finish:**  
a. Wood Veneer: [Cherry or walnut] [Maple] in manufacturer’s standard stain selection shall include color  
b. Edge Detail: Manufacturer’s standard selection shall include shape

12.12 Item No. SC01-99: Buffet Credenza, Wood Veneer, [Traditional] [Transitional], Executive III  
Overall Dimensions: 72"W x 24"D x 34-36"H

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**General Requirements:**  
a. Wood veneer top with solid wood profiled edge  
b. Minimum (2) box drawers or internal pull-out storage drawers  
c. (4) Doors  
d. (1) Adjustable shelf in each storage section  
e. Leveling glides  
f. Locking, keyed [randomly] [to match adjacent furnishings within the same [room] [area]  
g. Style, detailing and finish shall match item number

**Traditional Edge Detail/Molding:**  
a. Base Molding: 3 ½"H with traditional profile  
b. Top Edge Detail: Manufacturer’s standard traditional profile shall include shape

**Transitional Edge Detail/Molding:**  
a. Top Edge Detail: Manufacturer’s standard transitional profile selection
Finish:
a. Wood Veneer: [Cherry or walnut] [Maple] in manufacturer’s standard stain selection shall include color
b. Edge Detail: Manufacturer’s standard selection shall include shape
c. Pulls: Manufacturer’s standard [traditional] [transitional] selection

12.13 Item No. SC01-99: Modular Storage Credenza with Media Cabinet, Wood Veneer, [Traditional] [Transitional], Executive III
Overall Dimensions: 96”W x 24”D x 67-74”H

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General requirements:
a. Multiple units may be used to achieve overall width which can include, but are not limited to:
   i. Combination of base units with desk-mounted media and storage cabinets; tops for base units shall be continuous with the full width of the piece
   ii. All full-height units
   iii. Combination of full height media/AV cabinets and base units with desk-mounted storage cabinets
b. Locking, keyed [randomly] [to match adjacent furnishings within the same [room] [area]

Credenza Storage Components:
a. (2) 30”W 2-Drawer lateral file sections
b. Storage section with (2) doors and (1) adjustable shelf
c. Leveling glides

Upper Storage Components:
a. (2) 30”W Open bookcase sections, each with (2) adjustable shelves
b. (2) 30”W Bookcase sections each with [glass] [metal grille insert] doors and (2) adjustable shelves
c. (1) 36”W x 24”D x 38”H Media cabinet with wire access grommet and ventilation slots
d. Doors shall open 165 degrees or be pocket style

Traditional Edge Detail/Molding:
a. Base Molding: 3 ½”H with traditional profile
b. Crown/Cornice Molding: 1½-3”H with traditional profile
c. Top Edge Detail: Manufacturer’s standard traditional profile shall include shape

Transitional Edge Detail/Molding:
a. Crown/Cornice Trim/Profile: 1-3”H Shaped crown, trim or profile with transitional detailing
b. Top Edge Detail: Manufacturer’s standard transitional profile selection
Finish:

a. Wood Veneer: [Cherry or walnut] [Maple] in manufacturer’s standard stain selection shall include color
b. Edge Detail: Manufacturer’s standard selection shall include shape
c. Pulls: Manufacturer’s standard [traditional] [transitional] selection
d. [Glass] [Acrylic]: Manufacturer’s standard selection shall include [clear] [frosted] [patterned]

12.14 Item No. AV01-99: Mobile Multi-Media Lectern, Wood Veneer, [Traditional] [Transitional]
Overall Dimensions: [23-28] [30-34]"W x 24"D x 44-47"H

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General Requirements:

a. Angled writing surface with pencil lip
b. Fixed shelf below writing surface
c. Pull-out shelf/keyboard tray below writing surface
d. Storage section with doors and minimum (1) adjustable and (1) fixed shelf
e. Task light
f. Microphone
g. Power/Data module with minimum (2) simplex outlets and (2) data ports
h. Plug strip with minimum (4) outlets
i. Grommet or wire way in side or bottom
j. (4) Casters, minimum (2) locking
k. Shall have traditional style detailing to match adjacent wood casegoods

Finish:

a. Wood Veneer: [Cherry or walnut] [Maple] in manufacturer’s standard stain selection shall include color
b. Edge Detail: Manufacturer’s standard selection shall include shape
c. Pulls: Manufacturer's standard [traditional] [transitional] selection

d. Glass: Manufacturer’s standard selection shall include [clear] [frosted] [patterned]

13.0 Construction Requirements - Wood Conference Tables, Executive II [– NOT USED]

Warranty Requirements:

1. 10 year.
2. 5 year – Wood Veneer.

Testing and Standards:

ANSI/BIFMA X5.5-2014 Desk/Table Products
Material
1. ANSI 208.1-2009 Particleboard Classifications.
2. ANSI A208.2-2009 Medium Density Fiberboard.

Referenced Standards

Environmental Standard and Sustainability:
1. All proposed products shall be certified as compliant with Indoor Air Quality (IAQ) requirements and shall meet or exceed ANSI/BIFMA X7.1-2011 (R2016)-VOC.
2. The product submitted shall have certification for IAQ (GREENGUARD or equivalent).

General Requirements:

1. Traditional wood conference tables cover a range of historical style influences such as Chippendale, Sheraton, Hepplewhite, and other Georgian and Neo-Classical styles. Elements such as base molding for table bases, accent moldings, and traditionally shaped edge profiles on table tops are integral parts of this style. Transitional wood tables blend the light, clean lines of contemporary styling with the influence of traditional period styling without appearing heavy or bulky. Elements such as base rail molding or trim (if present) and edge details are simpler than their traditional counterparts and may be curvilinear or rectilinear in design. Ornamentation such as picture mold or other overlay moldings are not appropriate to this style. Contemporary wood conference tables and bases have light, clean geometric shapes with no ornamentation except for simple edge detailing on table tops when required.

2. All casegood components located throughout an entire building within a room/office shall have a consistent finish and color.
3. Table tops and bases shall be constructed of a Grade M2 or M3 particleboard or a 45 lb. medium density fiberboard core with a veneer face and a backer sheet on the underside.
4. Tops shall have hardwood edges with profiles or solid wood edge band. Species of edge shall match the species of veneer used on the top, except solid maple shall be acceptable in lieu of solid cherry edges.
5. All visible and exposed worksurface perimeters shall have consistent profiles.
6. Table tops and bases shall be from the same manufacturer and shall have consistency in the veneer, stain and finish process.
7. Large tops shall be shipped in sections with leveling fasteners for onsite assembly.
8. Tables shall have ganging fasteners with steel bars to join adjacent tables or table sections for a tight fit.

Veneer Components:
General Requirements:
1. Veneers shall be “natural”. “Composite” or “reconstituted veneer” shall not be acceptable.
2. Veneer thickness shall be 0.4 - 0.7mm.
3. All segments in one panel shall be the same size, except the two outside edge segments can be narrower to visually balance the panel. Any cathedral grain pattern shall be centered within the flitch.
4. All veneer plates on one panel shall come from the same flitch of veneer; mismatched plates shall be considered non-conforming.
5. The grain direction on exterior panels shall be vertical, with cathedral peaks pointed toward the top of the panel.
6. The grain pattern on tops shall be balanced in the width and depth dimensions.
7. Wood veneer surfaces shall be bonded to the core with a PVA or other low VOC adhesive utilizing either a hot or cold press process to ensure complete lamination to the core.
8. Products shall be available in “semi-open pore” or “full-fill” finishes.

Tops:
1. Wood veneer for these surfaces shall conform to the following requirements:
   a. Plain-sliced (flat-cut)
   b. Cathedrals shall be centered in segment with equal quarters on each side
   c. Cathedral figure shall be achieved by a single component; no split heart shall be permitted
   d. Cathedrals with wild grain that deviates from the desired arc shape shall be minimal and shall have less than two concave (opposite the cathedral direction) points per cathedral line
   e. Sapwood shall not be permitted for cherry and walnut
   f. Maple shall be all sapwood
   g. Slight color and/or mineral streaks that run parallel to the grain shall be permitted
   h. Slight color variation with no sharp contrast shall be permitted
   i. Veneer shall be book or slip matched
   j. Minimum nominal segment width shall be 6"
   k. Conspicuous burls and pin knots in cherry and walnut shall be ¼” maximum diameter with no prominent clusters. Average combined quantity shall not exceed 8 per 32 sq. ft.
   l. No conspicuous pin knots shall be permitted in maple. Conspicuous burls in maple shall be ¼” maximum diameter with no prominent clusters. Average quantity shall not exceed 6 per 32 sq. ft.
   m. Birdseye in maple shall be scattered with no clusters
   n. Slight sugar in maple shall be permitted. Sugar streaks shall be parallel to the grain and shall be lighter than the darkest cathedral
   o. Occasional sound and scattered gum spots in cherry shall be permitted
   p. Slight worm tracks parallel to the grain and lighter than the darkest cathedral shall be permitted
   q. Slight vine marks and cross bars shall be permitted
   r. Bull’s eye shall not be permitted in walnut
A maximum of two repaired hairline splits no larger than 1/32" x 3" shall be permitted.

Very small blending repairs shall be permitted.

**Bases:**

1. Wood veneer for these surfaces shall conform to the following requirements:
   a. Plain-sliced (flat-cut)
   b. Cathedrals shall be centered in segment
   c. Split heart shall be permitted if a manufactured cathedral is achieved
   d. Slight wild grain in cathedrals that deviates from the desired arc shape shall be permitted and shall have less than three concave (opposite the cathedral direction) points per cathedral line
   e. Sapwood shall not be permitted for cherry and walnut
   f. Maple shall be all sapwood
   g. Slight color and/or mineral streaks that run parallel to the grain shall be permitted. Mineral streaks in maple shall be blending
   h. Slight color variation with no sharp contrast shall be permitted
   i. Veneer shall be book or slip matched
   j. Minimum nominal segment width shall be 5"
   k. Conspicuous burls shall be ⅜" maximum diameter; pin knots shall be ¼" maximum. There shall be no prominent clusters, and the average combined quantity shall not exceed 10 per 32 sq. ft. in maple, and 24 per 32 sq. ft. in cherry and walnut
   l. Birdseye in maple shall be scattered with no clusters
   m. Slight sugar in maple shall be permitted. Sugar streaks shall be parallel to the grain and shall be lighter than the darkest cathedral
   n. Occasional sound and scattered gum spots in cherry shall be permitted
   o. Slight worm tracks parallel to the grain and lighter than the darkest cathedral shall be permitted.
   p. Occasional vine marks and cross bars shall be permitted
   q. Occasional bull’s eye shall be permitted in walnut
   r. A maximum of two repaired hairline splits no larger than 1/16" x 6" shall be permitted
   s. Small blending repairs shall be permitted

**Solid Wood Components:** (Visible components only)

1. Solid wood components shall be kiln dried with moisture content from 5-10%.
2. All solid wood shall be compatible for color and grain.
3. Sound, scattered birdseye in maple shall be permitted.
4. Sound knots shall be no more than ¼" in diameter.
5. Mineral stain shall not exceed 10% of the face.
6. Sapwood in cherry and walnut shall be less than 5% of the face.
7. Worm holes less than 1/16" shall be permitted.
8. No bark pockets, honeycomb, pitch pockets or streaks, sticker discoloration, mineral stain, or shake shall be allowed.
Moldings:

1. Base moldings shall be solid hardwood in the same species as the veneer. Shaped, veneer- wrapped MDF moldings shall be considered non-conforming.
2. Moldings shall be applied to all sides of the base; any corners shall be mitered and all joints shall be tight, flush and glued for stability.

General Power Requirements:

1. Table bases shall have a hinged door or removable panel that can provide access to electrical wiring, data and communication cables, and allows for reconfiguration of these connections.
2. Field or factory installed metal grommets shall be available. Grommets shall be a minimum 1¾” in diameter with covers and inserts and shall have a low profile.
3. Electrical components shall be manufactured in compliance with NEC regulations and shall be UL approved.
4. Power/Data port modules shall be recessed from view and accessed via a touch latch or a hinged or sliding cover.
5. Module shall have CE mark.
6. All electric components shall be compatible with 230V/50HZ [German][Belgium][Italian] power and manufactured with a Schuko Type F plug.

13.1 Item No. TC01-99: Round Meeting Table, Wood Veneer, [Traditional] [Transitional], Executive II
Overall Dimensions: [42”] [48”] Diameter

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General Requirements:
a. Wood veneer top with solid hardwood edge
b. [Wood veneer drum base with 3½”H base molding] [Traditional leg base] [Wood base with glides] [Metal X-base with glides]

Traditional Edge Detail/Molding:
a. Base Molding: 3 ½”H with traditional profile
b. Edge Detail: Manufacturer’s standard traditional profile shall include shape

Transitional Edge Detail/Molding:
a. Edge Detail: Manufacturer’s standard transitional profile selection

Finish:
a. Wood Veneer: [Cherry or walnut] [Maple] in manufacturer’s standard stain selection shall include color
b. Metal: Manufacturer’s standard powder coat paint selection shall include color
c. Edge Detail: Manufacturer’s standard selection shall include shape
13.2 Item No. TC01-99: [Rectangular] [Racetrack] [Boat Shaped] Conference Table, Wood Veneer, Powered, [Traditional] [Transitional], Executive II
Overall Dimensions: 96"W x 48"D

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### General Requirements:

a. Wood veneer top with solid hardwood edge
b. Wood veneer [drum base] [rectangular panel base] [rectangular bases with metal accents] [elliptical bases with metal accents]
c. Bases shall have hinged or removable panel for wire and cable access
d. Provide a minimum of (2) power/data modules:
   i. Provide a minimum of (2) simplex power outlets and (2) data/comm. ports, per module
   ii. Power connection shall [plug-in] [be hardwired] to building power
e. Wire management tray or basket below the table top
f. Adjustable glides

#### Traditional Edge Detail/Molding:

a. Base Molding: 3 ½"H with traditional profile
b. Edge Detail: Manufacturer’s standard traditional profile shall include shape

#### Transitional Edge Detail/Molding:

a. Edge Detail: Manufacturer’s standard transitional profile selection

### Finish:

a. Wood Veneer: [Cherry or walnut] [Maple] in manufacturer’s standard stain selection shall include color
b. Metal: Manufacturer’s standard powder coat paint selection shall include color
c. Edge Detail: Manufacturer’s standard selection shall include shape
d. Power Module: Manufacturer’s standard selection shall include color

14.0 Construction Requirements - Wood Conference Tables, Executive III

[ – NOT USED]

### Warranty Requirements:

1. 10 year.
2. 5 year – Wood Veneer.

### Testing and Standards:

ANSI/BIFMA X5.5-2014 Desk/Table Products
Material
1. ANSI 208.1-2009 Particleboard Classifications.
2. ANSI A208.2-2009 Medium Density Fiberboard.

Referenced Standards

Environmental Standard and Sustainability:
1. All proposed products shall be certified as compliant with Indoor Air Quality (IAQ) requirements and shall meet or exceed ANSI/BIFMA X7.1-2011 (R2016)-VOC.
2. The product submitted shall have certification for IAQ (GREENGUARD or equivalent).

General Requirements:

1. Traditional wood conference tables cover a range of historical style influences such as Chippendale, Sheraton, Hepplewhite, and other Georgian and Neo-Classical styles. Elements such as base molding for table bases, accent moldings, and traditionally shaped edge profiles on table tops are integral parts of this style.
2. Transitional wood tables blend the light, clean lines of contemporary styling with the influence of traditional period styling without appearing heavy or bulky. Elements such as base rail molding or trim (if present) and edge details are simpler than their traditional counterparts and may be curvilinear or rectilinear in design. Ornamentation such as picture mold or other overlay moldings are not appropriate to this style.
3. Contemporary wood conference tables and bases have light, clean geometric shapes with no ornamentation except for simple edge detailing on table tops when required.
4. All casegood components located throughout an entire building shall have a consistent finish and color.
5. Table tops and panel bases shall be constructed of a Grade M2 or M3 particleboard or a 45 lb. medium density fiberboard core with a veneer face and a backer sheet on the underside.
6. Tops shall have hardwood edges with profiles or a solid wood edge band.
7. All visible and exposed worksurface perimeters shall have consistent profiles.
8. Table tops and bases shall be from the same manufacturer and shall have consistency in the veneer, stain and finish process.
9. Large tops shall be shipped in sections with leveling fasteners for onsite assembly.
10. Tables shall have ganging fasteners with steel bars to join adjacent tables or table sections for a tight fit.

Veneer Components:

General Requirements:
1. Veneers shall be “natural”. “Composite” or “reconstituted veneer” shall not be acceptable.

2. Veneer thickness shall be 0.4 - 0.7mm.

3. All segments in one panel shall be the same size, except the two outside edge segments can be narrower to visually balance the panel. Any cathedral grain pattern shall be centered within the flitch.

4. All veneer plates on one panel shall come from the same flitch of veneer; mismatched plates shall be considered non-conforming.

5. The grain direction on exterior panels shall be vertical, with cathedral peaks pointed toward the top of the panel.

6. The grain pattern on tops shall be balanced in the width and depth dimensions.

7. Wood veneer surfaces shall be bonded to the core with a PVA or other low VOC adhesive utilizing either a hot or cold press process to ensure complete lamination to the core.

8. Products shall be available in “semi-open pore” or “full-fill” finishes.

**Tops:**

1. Wood veneer for these surfaces shall conform to the following requirements:
   a. Plain-sliced (flat-cut)
   b. Split heart shall be permitted if a manufactured cathedral is achieved
   c. Cathedrals with wild grain that deviates from the desired arc shape shall be minimal and shall have less than four concave (opposite the cathedral direction) points per cathedral line
   d. The average sapwood content for cherry and walnut veneer shall be from 0-5%, with no more than 20% maximum on any individual top. Sapwood areas shall be treated and toned to be uniform in color with adjacent heartwood areas
   e. Slight color and/or mineral streaks that run parallel to the grain shall be permitted
   f. Slight color variation with no sharp contrast shall be permitted
   g. Veneer shall be book or slip matched
   h. Minimum nominal segment width shall be 5”
   i. Conspicuous pin knots shall be ¼” maximum diameter with the dark portion no greater than ⅛” diameter; conspicuous burls shall be ⅜” maximum diameter. Average combined quantity shall not exceed 10 per 32 sq. ft. for maple, and 24 per 32 sq. ft. for cherry and walnut
   j. Birdseye in maple shall be scattered with no clusters
   k. Slight sugar in maple shall be permitted. Sugar streaks shall be parallel to the grain and shall be lighter than the darkest cathedral
   l. Occasional sound and scattered gum spots in cherry shall be permitted
   m. Slight worm tracks parallel to the grain and lighter than the darkest cathedral shall be permitted
   n. Occasional vine marks and cross bars shall be permitted
   o. Bull's eye shall not be permitted in walnut
   p. A maximum of two repaired hairline splits no larger than 1/16” x 6” shall be permitted
   q. Small blending repairs shall be permitted

**Bases:**

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Attachment #2  Page 120 of 169
1. Wood veneer for these surfaces shall conform to the following requirements:
   a. Plain-sliced (flat-cut)
   b. Split heart shall be permitted if a manufactured cathedral is achieved
   c. Cathedrals with wild grain that deviates from the desired arc shape shall be permitted and shall have less than four concave (opposite the cathedral direction) points per cathedral line
   d. Maximum 20% sapwood shall be permitted for cherry and walnut. Sapwood areas shall be treated and toned to be uniform in color with adjacent heartwood areas
   e. Color and/or mineral streaks that run parallel to the grain shall be permitted. Mineral streaks in maple shall be blending
   f. Slight color variation with no sharp contrast shall be permitted
   g. Veneer shall be slip matched
   h. Minimum nominal segment width shall be 3"
   i. Conspicuous pin knots shall be ¼” maximum diameter with the dark portion no greater than ½” diameter; conspicuous burls shall be ½” maximum diameter. Average combined quantity shall not exceed 10 per 32 sq. ft. for maple, and 64 per 32 sq. ft. for cherry and walnut
   j. Scattered sound and repaired knots shall be permitted. Sound knots shall be ⅜” maximum diameter; repaired knots shall be ⅛” maximum diameter. The combined average number shall be no more than 4 per 32 sq. ft.
   k. Birdseye in maple shall be permitted; clusters shall not be heavy
   l. Occasional sugar in maple shall be permitted. Sugar streaks shall be parallel to the grain and shall be lighter than the darkest cathedral
   m. Occasional sound and scattered gum spots and streaks in cherry shall be permitted
   n. Slight worm tracks parallel to the grain and lighter than the darkest cathedral shall be permitted
   o. Vine marks and cross bars shall be permitted
   p. Bull’s eye shall be permitted in walnut
   q. A maximum of four repaired hairline splits no larger than ⅛” x 8” shall be permitted
   r. Slight rough cut/ruptured grain shall be permitted
   s. Blending repairs shall be permitted

**Solid Wood Components:** (Visible components only)

1. Solid wood components shall be kiln dried with moisture content from 5-10%.
2. All solid wood shall be compatible for color and grain.
3. Sound, scattered birdseye in maple shall be permitted.
4. Sound knots shall be no more than ¼” in diameter.
5. Mineral stain shall not exceed 10% of the face.
6. Sapwood in cherry and walnut shall be less than 5% of the face.
7. Worm holes less than 1/16” shall be permitted.
8. No bark pockets, honeycomb, pitch pockets or streaks, sticker discoloration, mineral stain, or shake shall be allowed.
Moldings:

1. Base moldings (if present) shall be solid hardwood. Shaped, veneer-wrapped MDF moldings shall be considered non-conforming.
2. Moldings shall be applied to all sides of the base; any corners shall be mitered and all joints shall be tight, flush and glued for stability.

General Power Requirements:

1. Table bases shall have a hinged door or removable panel that can provide access to electrical wiring, data and communication cables, and allows for reconfiguration of these connections.
2. Field or factory installed metal grommets shall be available. Grommets shall be a minimum 1¾” in diameter with covers and inserts and shall have a low profile.
3. Electrical components shall be manufactured in compliance with NEC regulations and shall be UL approved.
4. Power/Data port modules shall be recessed from view and accessed via a touch latch or a hinged or sliding cover.
5. Module shall have CE mark.
6. All electric components shall be compatible with 230V/50HZ [German][Belgium][Italian] power and manufactured with a Schuko Type F plug.

14.1 Item No. TC01-99: Round Meeting Table, Wood Veneer, [Traditional] [Transitional], Executive III
Overall Dimensions: [42”] [48”] Diameter

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General Requirements:

a. Wood veneer top with solid hardwood edge
b. [Wood veneer drum base with 3½”H base molding] [Traditional leg base] [Wood base with glides] [Metal X-base with glides]

Traditional Edge Detail/Molding:

a. Base Molding: 3 ¼”H with traditional profile
b. Top Edge Detail: Manufacturer’s standard traditional profile shall include shape

Transitional Edge Detail/Molding:

a. Top Edge Detail: Manufacturer’s standard transitional profile selection

Finish:

a. Wood Veneer: [Cherry or walnut] [Maple] in manufacturer’s standard stain selection shall include color
b. Metal: Manufacturer’s standard powder coat paint selection shall include color
c. Edge Detail: Manufacturer’s standard selection shall include shape
14.2 Item No. TC01-99: [Rectangular] [Racetrack] [Boat Shaped] Conference Table, Wood Veneer, Powered, [Traditional] [Transitional], Executive III
Overall Dimensions: 96"W x 48"D

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General Requirements:
- a. Wood veneer top with solid hardwood edge
- b. Wood veneer [drum base] [rectangular panel base] [rectangular bases with metal accents] [elliptical bases with metal accents]
- c. Bases shall have hinged or removable panel for wire and cable access
- d. Provide a minimum of (2) power/data modules:
  - i. Provide a minimum of (2) simplex power outlets and (2) data/comm. ports, per module
  - ii. Power connection shall [plug-in] [be hardwired] to building power
- e. Wire management tray or basket below the table top
- f. Adjustable glides

Traditional Edge Detail/Molding:
- a. Base Molding: 3½"H with traditional profile
- b. Top Edge Detail: Manufacturer’s standard traditional profile shall include shape

Transitional Edge Detail/Molding:
- a. Top Edge Detail: Manufacturer’s standard transitional profile selection

Finish:
- a. Wood Veneer: [Cherry or walnut] [Maple] in manufacturer’s standard stain selection shall include color
- b. Metal: Manufacturer’s standard powder coat paint selection shall include color
- c. Edge Detail: Manufacturer’s standard selection shall include shape
- d. Power Module: Manufacturer’s standard selection shall include color

15.0 Construction Requirements - Laminate Casegoods [– NOT USED]

Warranty Requirements:
1. 10 year.
2. 5 year – Laminate.

Testing and Standards:
- ANSI/BIFMA X5.5-2014 Desk/Table Products
- ANSI/BIFMA X5.9-2012 Storage Units
Material
1. ANSI 208.1-2009 Particleboard Classifications.
2. ANSI A208.2-2009 Medium Density Fiberboard.

Environmental and Sustainability
1. All proposed products shall be certified as compliant with Indoor Air Quality (IAQ) requirements and shall meet or exceed ANSI/BIFMA X7.1-2011 (R2016)-VOC.
2. The product submitted shall have certification for Indoor Air Quality (GREENGUARD or equivalent).
3. The product submitted shall have certification for Indoor Air Quality (Greenguard Gold or equivalent).

General Requirements:
1. Worksurfaces shall be fully supported by floor-standing pedestals or other supports such as brackets, legs, panels, etc., following the manufacturer’s standard practices for the size, type and placement. Size and placement of supports shall not interfere with kneespace clearances. All pedestals and supports shall be indicated on the drawings and in the component listing.
2. All desk and storage components within a room shall be from the same manufacturer.
3. The finish color shall match on all components within a room.
4. Desk products shall be standard with central locking; only one lock shall be required to secure all drawers or doors in a unit.
5. All desk components shall have adjustable glides with a minimum adjustment of 1”.
6. Provide all brackets and hardware to ensure proper installation and stability of products.
7. Clips, brackets, screws, and other construction and attachment elements shall be concealed.

Component Construction:
1. All casegood components shall be constructed of a Grade M2 or M3 particleboard core. Surfaces with high pressure laminate finish shall have laminate on the exposed face and backer material on the unexposed face for balanced panel construction. Thermally fused melamine surfaces shall have the same material on both faces.
2. Desks and other products with chassis construction shall be assembled using tenon & groove, or equal construction methods, and be reinforced with cleats, metal angle brackets, or a similar method of reinforcement.
3. Pedestals shall be assembled with tenon and groove construction or dowels; dowel construction shall be reinforced with corner brackets and stretcher bars for stability.
4. Desk pedestals shall be the full nominal depth of the worksurface unless limited by wire access cavities or overhangs.
5. Back panels on freestanding storage cabinets shall be let into the sides so that no raw edges are visible.
6. Tops and ends of storage units shall be securely connected with metal fasteners, hardwood biscuits, dowels, or other mechanical connectors.
7. All exposed edges shall be totally finished and sealed against moisture with impact resistant vinyl/ABS or similar plastic material. Color and pattern of edge finish shall match the face of the unit.

**Drawers:**

1. Drawers shall conform to the following requirements:
   a. Drawer front shall have a particleboard or medium density fiberboard core. High pressure laminate fronts shall have laminate or a backer material on the unexposed face. Thermally fused melamine fronts shall have the same material on both faces.
   b. Drawer front edges shall be totally finished and sealed against moisture with impact resistant vinyl/ABS or similar plastic material. Color and pattern of edge finish shall match the face of the drawer.
   c. Drawers shall be 5-sided with a separate, removable front for field replacement without disturbing the contents of the drawer.
   d. Drawer sides and backs shall be minimum ½” particleboard or medium density fiberboard with wood grain vinyl covering, assembled using miter fold construction.
   e. Drawer bottoms shall be a 3-ply construction of particleboard, medium density fiberboard, or similarly engineered wood core, with a wood grain melamine or vinyl face and a backer sheet on the underside of the panel. Drawer bottom shall be let into all sides of the drawer with a rabbet joint, glued and stapled.
   f. Box and file drawers shall have full extension ball bearing slides with a dampened start/stop feature and a positive stop.
   g. File drawers shall have full height sides with metal file rails for front-to-back and side-to-side filing. File drawers that require a separate metal file frame to accommodate hanging folders shall be considered non-conforming.
   h. File drawers and hanging systems shall support hanging file folders without the folders binding or falling through and shall allow the drawer to close with index tabs in place.

**Worksurfaces and Tops:**

1. Worksurfaces and tops on casegoods shall be constructed of a Grade M2 or M3 particleboard or a 45 lb. medium density fiberboard core.
2. Worksurfaces and tops on casegoods less than 65”H shall have minimum VGS General Purpose Grade High Pressure Laminate on the face and a backer material on the underside.
3. Tops on casegoods greater than 65”H shall have VGS Grade High Pressure Laminate on the face with a backer sheet on the underside or thermally fused melamine on both faces.

4. High pressure laminates shall be bonded to the core with a PVA adhesive in a cold press or hot press process to prevent separation of the laminate from the core.

5. Worksurface edges shall be totally finished and sealed against moisture with a flat edged, impact resistant vinyl/ABS or similar plastic, have a radius of at least 1/8”, and be 2 – 3mm thick.

6. Laminate self-edges shall be considered non-conforming.

7. Worksurfaces shall be available with factory or field installed grommets. Grommets shall be a minimum of 1¾” in diameter, include covers and inserts, and shall have a low profile.

8. Abutting worksurfaces shall mate closely and at equal heights when used in side-by-side configurations in order to provide a continuous and level worksurface.

**Modesty Panels, End Panels and Supports:**

1. Modesty panels shall be available for return worksurfaces.
2. End panels shall be capable of supporting the worksurface without modesty or back panels.

**Overhead Storage Units:**

1. Doors shall have concealed European style hinges with a minimum opening of 95 degrees.
2. The minimum height from the worksurface to the bottom of the hutch shall be 18”.
3. Shall be securely attached to worksurfaces with industrial grade double-stick tape.

**Freestanding Storage:**

1. Lateral file and hybrid storage cabinet drawers shall conform to the drawer construction requirements for pedestals.
2. Lateral file cabinets shall be standard with an interlock mechanism to prevent more than one drawer opening at one time.
3. Lateral file and hybrid storage cabinets shall be standard with central locking; only one lock shall be required to secure all drawers and/or doors in a unit.
4. Doors shall have concealed European style hinges with a minimum opening of 95 degrees.
5. Doors on media cabinets for video screens or TV storage shall have pocket doors that retract and store in the cabinet or hinges that allow doors to open fully for unobstructed viewing of the screen.
6. Storage cabinet and bookcase shelves shall be adjustable on 1½” centers.
7. The interior cabinet depth of wardrobes shall accommodate a coat rod for shoulder-out hanging of garments using standard coat hangers, except when required depth is less than 24”.
8. Wardrobe or storage cabinets in modular desk assemblies shall match the combined total height of the adjacent return or credenza plus the overhead storage unit.
Task Lighting:

1. Task lights shall be a standard component of the manufacturer's furniture products.
2. Task lights shall recess into the bottom of overhead cabinets and shelves or be shielded by a valance or trim board to fully conceal the fixture.
3. Task lights shall be sized to provide even illumination over the length of the worksurface. Task lighting for 72" wide overhead storage units shall be no less than 48" wide.
4. All other task lights shall be sized appropriately for the overhead storage bin.
5. LED task lights shall have a minimum 50,000-hour life span and 3500K color temperature.
6. Depending on the task light length, LED Color Rendering Index (CRI) shall range from 83-84.
7. Electronic ballasts shall be provided to eliminate fluorescent lamp flicker and computer screen interference. Shared ballasts shall not be used.
8. Task lights shall provide glare control.
9. Task lights shall have an easily accessible on-off switch.
10. Daisy chain cords shall be available for the modular connection of shelf lights.
11. Fluorescent lamps shall be Energy Star rated.
12. All fixture diffusers, grilles or other coverings shall be easily removable to permit cleaning and replacement.
13. Task lights shall be UL or ETL listed and labeled.
14. Task lights shall have CE mark.

15.1 Item No. D[U] [L] [S] [D]01-99: Freestanding [[L] [U]-Shaped] [Single Pedestal] [Double Pedestal] Desk, Laminate
Overall Dimensions: 6'-0"W x 6'-0"D

*High pressure laminate shall be provided on all surfaces (vertical and horizontal), if available on manufacturers standard product; if this is not available, worksurfaces are required to have high pressure laminate surfaces and vertical surfaces can have standard pressure laminate or thermally fused laminate.

Contractor shall:
*Confirm handedness in field.

*Coordinate layout with existing windows, wall-mounted data boxes, etc., as applicable.

Component:
a. 72"W x 30"D Rectangular desk with overhang
   i. 30"D Box/Box/File pedestal with (1) pencil tray per pedestal and (1) drawer divider for each box drawer
ii. [Full height] [Partial height] modesty panel
b. 72"W x 30"D Peninsula worksurface with column support
   i. Partial height modesty panel
c. 42"W x 24"D Rectangular [return][bridge]
   i. 24"D File/File pedestal
   ii. [Full height] [Partial height] modesty panel
d. 72"W x 24"D Rectangular credenza
   i. 30"W 2-Drawer lateral file with rails to provide side-to-side and front-to-back filing
      and shall accommodate letter, legal or other size folders
   ii. [Partial height] [Full height hinged or removable] [No] modesty panel
e. 72"W Overhead storage unit with hinged doors, mounted above return/credenza
   i. Energy saving [task] [LED] light with vertical wire management and power cord
      long enough to reach power source
      1. Provide task light with occupancy sensor; sensor shall be installed facing user
   ii. Full width and full height tack board below upper storage components
f. Paper management accessories: (2) pencil cups, (2) diagonal paper sorters
g. Grommets with covers on all worksurfaces
h. Cable trays and/or clips for wire management below all worksurfaces
   i. Locks at all drawers and doors
      i. Item shall be keyed to match adjacent furnishings within the [room, space, area]

Finish:
a. High Pressure Laminate: Manufacturer’s standard [wood grain] selection shall
   include color
b. Standard Laminate or Thermally Fused Laminate: Manufacturer’s standard [wood
   grain] selection shall include color
c. Edge: Manufacturer’s standard [vinyl/ABS] [solid wood] selection shall [match wood
   grain pattern] [coordinate with worksurface color]
d. Pulls: Manufacturer’s standard selection
e. Fabric: Manufacturer’s standard mid-grade selection shall include color

16.0 Construction Requirements - Laminate Conference Tables[ – NOT USED]

Warranty Requirements:

1. 10 year.
2. 5 year – Laminate.

Testing and Standards:

ANSI/BIFMA X5.5-2014 Desk/Table Products

Material
1. ANSI 208.1-2009 Particleboard Classifications.
2. ANSI A208.2-2009 Medium Density Fiberboard.

Environmental and Sustainability
1. All proposed products shall be certified as compliant with Indoor Air Quality (IAQ) requirements and shall meet or exceed ANSI/BIFMA X7.1-2011 (R2016)-VOC.
2. The product submitted shall have certification for Indoor Air Quality (GREENGUARD or equivalent).
3. The product submitted shall have certification for Indoor Air Quality (Greenguard Gold or equivalent).

General Requirements:
1. Tops shall be fully supported by bases, following the manufacturer's standard practices for the size, type and placement. Size and placement of supports shall not interfere with kneespace clearances.
2. The finish color shall match on all components within a room.
3. Table tops and bases shall be from the same manufacturer.
4. Large tops shall be shipped in sections with leveling fasteners for onsite assembly.
5. Tables shall have ganging fasteners with steel bars to join adjacent tables or table sections for a tight fit.

Top Surfaces:
1. Tops on tables shall be constructed of a Grade M2 or M3 particleboard or a 45 lb. medium density fiberboard core.
2. Tops on tables less than 65” in length shall have minimum VGS General Purpose Grade High Pressure Laminate on the face and a backer material on the underside.
3. Tops on tables greater than 65” in length shall have VGS Grade High Pressure Laminate on the face with a backer sheet on the underside or thermally fused melamine on both faces.
4. High pressure laminates shall be bonded to the core with a PVA adhesive in a cold press or hot press process to prevent separation of the laminate from the core.
5. Table edges shall be totally finished and sealed against moisture with a flat edged, impact resistant vinyl/ABS or similar plastic, have a radius of at least 1/8”, and be 2 – 3mm thick.
6. Laminate self-edges shall be considered non-conforming.
7. Tables shall be available with factory or field installed grommets. Grommets shall be a minimum of 1¾” in diameter, include covers and inserts, and shall have a low profile.
8. Abutting tops shall mate closely and at equal heights when used in side-by-side configurations in order to provide a continuous and level worksurface.

General Power Requirements:
1. Table bases shall have a hinged door or removable panel that can provide access to electrical wiring, data and communication cables, and allows for reconfiguration of these connections.

2. Field or factory installed metal grommets shall be available. Grommets shall be a minimum 1 ¼” in diameter with covers and inserts and shall have a low profile.

3. Electrical components shall be manufactured in compliance with NEC regulations and shall be UL approved.

4. Power/Data port modules shall be recessed from view and accessed via a touch latch or a hinged or sliding cover.

5. Module shall have CE mark.

6. All electric components shall be compatible with 230V/50HZ [German][Belgium][Italian] power and manufactured with a Schuko Type F plug.

16.1 Item No. TC01-99: [Rectangular] [Racetrack] [Boat Shaped] Conference Table, Laminate, Powered
Overall Dimensions: 96”W x 48”D

*Researched product lines:

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*High pressure laminate shall be provided on all surfaces (vertical and horizontal), if available on manufacturers standard product; if this is not available, worksurfaces are required to have high pressure laminate surfaces and vertical surfaces can have standard pressure laminate or thermally fused laminate.

**General Requirements:**

a. High pressure laminate top with solid hardwood edge

b. Laminate [drum base] [rectangular panel base] [rectangular bases with metal accents] [elliptical bases with metal accents]

c. Bases shall have hinged or removable panel for wire and cable access

d. Provide a minimum of (2) power/data modules:
   i. Provide a minimum of (2) simplex power outlets and (2) data/comm. ports, per module
   ii. Power connection shall [plug-in] [be hardwired] to building power

e. Wire management tray or basket below the table top

f. Adjustable glides

**Finish:**

a. High Pressure Laminate: Manufacturer’s standard [wood grain] selection shall include color

b. Standard Laminate or Thermally Fused Laminate: Manufacturer’s standard [wood grain] selection shall include color

c. Edge: Manufacturer’s standard [vinyl/ABS] [solid wood] selection shall [match wood grain pattern][coordinate with worksurface color]
17.0 Construction Requirements - Ergonomic [Task & Conference] Seating [– NOT USED]

Warranty Requirements:

1. 10 year – Mechanisms, pneumatic cylinders, casters, arms, and seat pan adjustment.
2. 5 year – Foam and upholstery.
3. Warranty for task seating shall cover 24/7 application and users up to 300 pounds. Multi-shift applications shall not cause warranty to be pro-rated.
4. Warranty for conference seating shall cover users up to 300 pounds.

Testing and Standards:

ANSI/BIFMA X5.1-2017-General Purpose Office Chairs

1. The latest BIFMA CMD (Chair Measurement Device) follows the Universal Measurement Procedure that BIFMA requires for evaluating compliance.
2. BIFMA guidelines allow a +/- 5% variance in CMD (Chair Measurement Device) dimensions to account for factors such as manufacturing/material variation, operator-to-operator measurement variation, timing of measurements, construction details such as textiles and support materials used, etc.

Material

General Requirements:

1. A pneumatic cylinder shall be used to accomplish the seat height adjustment.
2. Chairs shall have a forward seat edge flex or shall tilt at least 1”, and/or have a waterfall edge.
3. Chairs shall have:
   a. Synchronized tilt with a minimum 2:1 back-to-seat recline ratio with a user adjustment for tilt and a means of adjusting the backrest tension. The tension adjustment shall be achieved by a user-adjustable control.
      OR
   b. The user adjustment for tilt shall be achieved by a weight sensing mechanism.
4. Chairs shall have a tilt lock or stop position mechanism that the user can adjust while seated.
5. The recline angle (angle between the seat and back) shall have an adjustment of 15 degrees or more and should fall within the range of 90 to 120 degrees from the horizontal position.
6. Chairs shall have a 360-degree swivel.
7. Mesh back fabrics shall have elasticity elongation properties that will not allow the mesh to sag, sink, cradle, or hammock.
8. There shall be no hard edges on the frame’s structure which comes in contact with user or causes discomfort when changing posture.
9. Chairs shall have a 5-star base with a minimum dimension of 25” in diameter.
10. Seat depth mechanism shall allow the seat to move independently of the back.

**Adjustable Arm Requirements:**

1. Arm adjustments shall be made without the use of any tools.
2. The arm depth adjustment shall be independent of the seat depth adjustment.
3. The arm depth adjustment and pivot adjustment shall be independent of one another.
4. User shall be able to make all arm adjustments while seated.

17.1 Item No. CT01-99: Ergonomic Mid Back Task Chair, [Upholstered] [Faux Leather], [Mesh or Polymer Back]

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Item image is for general illustration purposes only and it is not an exact representation of the requirement.

Seat Width: 18” minimum
Seat Depth: 18” minimum
Overall Height: 38” minimum
Back Height: 17.7” minimum above the seat height

**General Requirements:**

a. Style: [Rounded back] [Rectangular back] [Thin line design]
b. Shall be different than [executive task] [and conference] seating
c. Fully Upholstered seat and [mesh or polymer elastomeric] back:
   i. Mesh portion of back shall be completely encapsulated by the frame to prevent edges of mesh fabric from contacting worksurfaces or walls
ii. If provided, back jacket shall fully enclose the chair back
iii. If back jacket is provided in lieu of an upholstered back, any visible chair back fabric or mesh shall match the jacket color
iv. Chairs with back jackets shall be considered non-conforming
d. Seat height adjustment shall have a 4.5” minimum range between 15” - 22”
e. Seat depth adjustment shall have a [2] [2.5]” minimum range with a 16.9” adjustment included
f. Height, width and [depth] [pivot] adjustable arms:
   i. Armrests shall have a 4” minimum height adjustment
   ii. Armrest width shall adjust at least 1¼” per arm (2 ½” overall)
   iii. Each armrest shall pivot at least 10 degrees inward and 10 degrees outward
   iv. Arm depth shall be achieved independently of armrest pivot
g. [Fixed arms] [Armless]
h. Static lumbar support shall be located between 5.9”- 9.8” above the seat height
i. Lumbar mechanism shall have a 3” vertical adjustment
j. Asymmetrical lumbar mechanism shall have a 3” mechanical vertical adjustment which also increases and decreases pressure
k. 5-Star base with soft casters

Finish:

a. Upholstery: Manufacturer’s standard, woven, stain resistant, mid-grade [patterned, textured, and/or solid] selection; 100,000+ double rubs shall include color
b. Faux Leather: Manufacturer’s standard stain resistant selection shall include color
c. Leather: Manufacturer’s standard selection shall include color
d. Mesh or Polymer Elastomeric: Manufacturer’s standard selection shall include color
e. Frame, Arms, Base, and Casters: Manufacturer’s standard selection shall include color

17.2 Item No. CC01-99: Ergonomic Conference Chair, [Upholstered] [Faux Leather], [Mesh or Polymer Back]

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Seat Width: 18” minimum
Seat Depth: 18” minimum
Overall Height: 38” minimum
Back Height: 17.7” minimum above the seat height

General Requirements:

a. Style: [Rounded back] [Rectangular back] [Thin line design] [Distinct curvilinear back]

b. Shall be different than [executive task] [and executive conference] seating

c. Fully Upholstered seat and [mesh or polymer elastomeric] back:
   i. Mesh portion of back shall be completely encapsulated by the frame to prevent edges of mesh fabric from contacting worksurfaces or walls
   ii. If provided, back jacket shall fully enclose the chair back
   iii. If back jacket is provided in lieu of an upholstered back, any visible chair back fabric or mesh shall match the jacket color [Keep if operable parts are exposed.]
   iv. Chairs with back jackets shall be considered non-conforming

d. Seat height adjustment shall have a 4.5” minimum range between 15”- 22”

e. Seat depth adjustment shall have a [2] [2.5]” minimum range with a 16.9” adjustment included

f. Height, width and [depth] [pivot] adjustable arms:
   i. Armrests shall have a 4” minimum height adjustment
   ii. Armrest width shall adjust at least 1¾” per arm (2 ½” overall)
   iii. Each armrest shall pivot at least 10 degrees inward and 10 degrees outward
   iv. Arm depth shall be achieved independently of armrest pivot

l. Fixed [fully enclosed] [loop] [“T”] arms [Armless]

g. Static lumbar support shall be located between 5.9”- 9.8” above the seat height

h. Lumbar mechanism shall have a 3” vertical adjustment
   i. Asymmetrical lumbar mechanism shall have a 3” mechanical vertical adjustment which also increases and decreases pressure

j. 5-Star base with soft casters

Finish:

a. Upholstery: Manufacturer’s standard, woven, stain resistant, mid-grade patterned selection; 100,000+ double rubs shall include color

b. Faux Leather: Manufacturer’s standard stain resistant selection; 100,000+ double rubs shall include color

c. Leather: Manufacturer’s standard selection shall include color

d. Mesh or Polymer Elastomeric: Manufacturer’s standard selection shall include color

e. Frame and Casters: Manufacturer’s standard selection shall include color

f. Arms and Base: Manufacturer’s standard selection shall include color

18.0 Construction Requirements - Executive [Task & Conference] Seating[ – NOT USED]

Warranty Requirements:

1. 10 year – Mechanisms, pneumatic cylinders, casters, arms, and seat pan adjustment.
2. 5 year – Foam and upholstery.
3. Warranty for executive task and conference seating shall cover users up to 300 pounds.

Testing and Standards:

ANSI/BIFMA X5.1-2017-General Purpose Office Chairs

1. The latest BIFMA CMD (Chair Measurement Device) follows the Universal Measurement Procedure that BIFMA requires for evaluating compliance.
2. BIFMA guidelines allow a +/- 5% variance in CMD (Chair Measurement Device) dimensions to account for factors such as manufacturing/material variation, operator-to-operator measurement variation, timing of measurements, construction details such as textiles and support materials used, etc.

Material

General Requirements:

1. A pneumatic cylinder shall be used to accomplish the seat height adjustment.
2. Chairs shall have a forward seat edge flex or shall tilt at least 1” and/or have a waterfall edge.
3. Chairs shall have:
   a. Synchronized tilt with a minimum 2:1 back-to-seat recline ratio with a user adjustment for tilt and a means of adjusting the backrest tension. The tension adjustment shall be achieved by a user-adjustable control.
      OR
   b. The user adjustment for tilt shall be achieved by a weight sensing mechanism.
4. Chairs shall have a tilt lock or stop position mechanism that the user can adjust while seated.
5. The recline angle (angle between the seat and back) shall have an adjustment of 15 degrees or more and should fall within the range of 90 to 120 degrees from the horizontal position.
6. Chairs shall have a 360-degree swivel.
7. Mesh back fabrics shall have elasticity elongation properties that will not allow the mesh to sag, sink, cradle, or hammock.
8. There shall be no hard edges on the frame’s structure which comes in contact with user or causes discomfort when changing posture.
9. Chairs shall have a 5-star base with a minimum dimension of 25” in diameter.

Adjustable Arm Requirements:

1. Arm adjustments shall be made without the use of any tools.
2. The arm depth adjustment shall be independent of the seat depth adjustment.
3. The arm depth adjustment and pivot adjustment shall be independent of one another.
4. User shall be able to make all arm adjustments while seated.

18.1 Item No. CT01-99: [Ergonomic] Executive Task Chair, [Upholstered] [Faux Leather], [Mesh or Polymer Back]

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Seat Width: 18” minimum  
Seat Depth: 18” minimum  
Overall Height: 38” minimum  
Back Height: 22” minimum above the seat height

General Requirements:

a. Style: [Rounded back] [Rectangular back] [Thin line design]
b. Shall be different than [task] [and conference] seating
c. Fully Upholstered seat and mesh or polymer elastomeric back:
   i. Mesh portion of back shall be completely encapsulated by the frame to prevent edges of mesh fabric from contacting worksurfaces or walls
   ii. If provided, back jacket shall fully enclose the chair back
   iii. If back jacket is provided in lieu of an upholstered back, any visible chair back fabric or mesh shall match the jacket color
   iv. Chairs with back jackets shall be considered non-conforming
d. Seat height adjustment shall have a 4.5” minimum range between 15” - 22”
e. Seat depth adjustment shall have a [2] [2.5]” minimum range with a 16.9” adjustment included
f. Height, width and [depth] [pivot] adjustable arms:
   i. Armrests shall have a 4” minimum height adjustment
   ii. Armrest width shall adjust at least 1¼” per arm (2 ½” overall)
iii. Each armrest shall pivot at least 10 degrees inward and 10 degrees outward
iv. Arm depth shall be achieved independently of armrest pivot
m. Fixed [enclosed] arms [Armless]
g. Static lumbar support shall be located between 5.9"- 9.8" above the seat height
h. Lumbar mechanism shall have a 3” vertical adjustment
i. Asymmetrical lumbar mechanism shall have a 3” mechanical vertical adjustment
   which also increases and decreases pressure
j. 5-Star base with soft casters

Finish:
a. Upholstery: Manufacturer’s standard, woven, stain resistant, mid-grade [patterned, textured, and/or solid] selection; 100,000+ double rubs shall include color
b. Faux Leather: Manufacturer’s standard stain resistant selection shall include color
c. Leather: Manufacturer’s standard selection shall include color
d. Mesh or Polymer Elastomeric: Manufacturer’s standard selection shall include color
e. Frame and Casters: Manufacturer’s standard selection shall include color
f. Arms and Base: Manufacturer’s standard selection shall include polished

19.0 Construction Requirements - Ergonomic Task Stool[ – NOT USED]

Warranty Requirements:
1. 10 year – Mechanisms, pneumatic cylinders, casters, arms, and seat pan adjustment.
2. 5 year – Foam and upholstery.
3. Warranty shall cover users up to 300 pounds.

Testing and Standards:
ANSI/BIFMA X5.1-2017-General Purpose Office Chairs

Material

General Requirements:
1. A pneumatic cylinder shall be used to accomplish the seat height adjustment.
2. Chairs shall have a forward seat edge flex or shall tilt at least 1” and/or have a waterfall edge.
3. Chairs shall have:
   a. A user adjustment for tilt and a means of adjusting the backrest tension. The tension adjustment shall be achieved by a user-adjustable control.
      OR
   b. The user adjustment for tilt shall be achieved by a weight sensing mechanism.
4. Chairs shall have a 360-degree swivel.
5. Mesh back fabrics shall have elasticity elongation properties that will not allow the mesh to sag, sink, cradle, or hammock.
6. There shall be no hard edges on the frame’s structure which comes in contact with the user or causes discomfort when changing posture.
7. Chairs shall have a 5-star base with a minimum dimension of 25” in diameter.
8. Glides shall be non-marring.

Adjustable Arm Requirements:

1. Arm adjustments shall be made without the use of any tools.
2. The arm depth adjustment shall be independent of the seat depth adjustment.
3. The arm depth adjustment shall be independent of pivot adjustment.
4. User shall be able to make all arm adjustments while seated.

19.1 Item No. CS01-99: Ergonomic Task Stool, [Upholstered] [Vinyl], [Mesh or Polymer Back]

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Item image is for general illustration purposes only and it is not an exact representation of the requirement.

Seat Width: 18” minimum
Seat Height: 22-30”
Seat Depth: 18” minimum
Overall Height: 50-57” minimum
Back Height: 17.7” minimum above the seat height

General Requirements:

a. Style: [Rounded back] [Rectangular back] [Thin line design]
b. Fully Upholstered seat and mesh or polymer elastomeric back:
   i. Mesh portion of back shall be completely encapsulated by the frame to prevent edges of mesh fabric from contacting worksurfaces or walls
c. Seat height adjustment shall have a 7” minimum range
d. Height, width and [depth] [pivot] adjustable arms:
i. Armrests shall have a 4” minimum height adjustment
ii. Armrest width shall adjust at least 1¼” per arm (2 ¼” overall)
iii. Each armrest shall pivot at least 10 degrees inward and 10 degrees outward
iv. Arm depth shall be achieved independently of armrest pivot
e. [Fixed arms] [Armless]
f. Static lumbar support shall be located between 5.9”- 9.8” above the seat height
g. Lumbar mechanism shall have a 3” vertical adjustment
h. Asymmetrical lumbar mechanism shall have a 3” mechanical vertical adjustment which also increases and decreases pressure
i. 5-Star base with [soft casters] [glides]
j. Height adjustable Foot ring

Finish:
a. Upholstery: Manufacturer’s standard, woven, stain resistant, mid-grade [patterned, textured, and/or solid] selection; 100,000+ double rubs shall include color
b. Vinyl: Manufacturer’s standard stain resistant selection; 100,000+ double rubs shall include color
c. Mesh or Polymer Elastomeric: Manufacturer’s standard selection shall include color
d. Frame, Arms, Base, Foot Ring, and Casters: Manufacturer’s standard selection shall include color

19.2 Item No. CN01-99: Industrial Task Stool, [Urethane]

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Seat Width: 18” minimum
Seat Height: 19-30”
Seat Depth: 19” minimum
Back Height: 15” minimum

**General Requirements:**
a. Style: Rounded back
b. Steel inner structure
c. Shall support a minimum of 300 pounds
d. Combination molded foam with urethane shall resist punctures and tears and shall have an easy to clean textured surface
e. Contoured seat shall have a waterfall edge
   i. Seat slider
   ii. Pneumatic seat height adjustment shall have a minimum range of 7"
f. Armless
g. Arms:
   i. Integrated steel arm structure with metal to metal connections
h. Height adjustable Foot ring
i. ESD, static electricity control:
   i. All components shall be integrated into one complete circuit which enables static electricity to be discharged through glides in the base of the chair
   ii. ESD seat and back fabric shall have copper fibers and special ESD treatment
j. 5-Star base with [soft casters] [glides]
k. 10 year warranty, minimum

Finish:
a. Urethane: Manufacturer’s standard selection shall include color
b. Frame, Arms, Base, Foot Ring, and Casters: Manufacturer’s standard selection shall include color

20.0 Construction Requirements - Traditional Executive [Task & Conference] Seating[ – NOT USED]

Warranty Requirements:

1. 10 year – Mechanism, pneumatic cylinders, casters, arms, and seat pan adjustment.
2. 5 year – Foam and upholstery.

Testing and Standards:

ANSI/BIFMA X5.1-2017 General Purpose Office Chairs

Material

General Requirements:

1. A pneumatic cylinder shall be used to accomplish the seat height adjustment.
2. Chairs shall have a forward seat edge flex or shall tilt at least 1” and/or have a waterfall edge.
3. Chairs shall have a 360-degree swivel.
4. Chairs shall have a 5-star base with a minimum dimension of 25” in diameter.
20.1 **Item No. CT01-99: Traditional Executive Task Chair, [Upholstered] [Faux Leather]**

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![Task Chair Image]

Item image is for general illustration purposes only and it is not an exact representation of the requirement.

- **Width:** 18” minimum
- **Seat Depth:** 18” minimum
- **Overall Height:** 38” minimum
- **Back Height:** 18” minimum above the seat height

**General Requirements:**

a. **Style:** [Rectangular back with rounded corners] [Rounded] [Rectangular] [Tufted/Pillow] [Distinct curvilinear] back
b. **Upholstered seat and back**
   - [1-Piece] [Fully]
   - [Knee] [Swivel]-tilt mechanism
d. **Seat height adjustment shall have a minimum 3” range**
e. **Height adjustable arms:**
   - Armrests shall have a 4” minimum height adjustment
f. **Fixed** [fully enclosed] [open] [loop] arms [Armless]
g. **5-Star base with soft casters**

**Finish:**

a. **Upholstery:** Manufacturer’s standard, woven, stain resistant, mid-grade [patterned, textured, and/or solid] selection; 100,000+ double rubs shall include color
b. **Faux Leather:** Manufacturer’s standard stain resistant selection shall include color
c. **Leather:** Manufacturer’s standard selection shall include color
d. **Frame and Casters:** Manufacturer’s standard selection shall include color
e. **Arms and Base:** Manufacturer’s standard [hardwood] [metal] selection shall include color

20.2 **Item No. CC01-99: Traditional Executive Conference Chair, [Upholstered] [Faux Leather]**

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Seat

Width: 18” minimum
Seat Depth: 18” minimum
Overall Height: 38” minimum
Back Height: 18” minimum above the seat height

General Requirements:
- Style: [Rectangular back with rounded corners] [Rounded] [Rectangular] [Tufted/Pillow] [Distinct curvilinear] back
- Shall be different than traditional executive task chair
- [1-Piece] [Fully] Upholstered seat and back
- Seat height adjustment shall have a minimum [3"] range
- 5-Star base with soft casters

Finish:
- Upholstery: Manufacturer’s standard, woven, stain resistant, mid-grade [patterned, textured, and/or solid] selection; 100,000+ double rubs shall include color
- Faux Leather: Manufacturer’s standard stain resistant selection shall include color
- Leather: Manufacturer’s standard selection shall include color
- Frame and Casters: Manufacturer’s standard selection shall include color
- Arms and Base: Manufacturer’s standard [hardwood] [metal] selection shall include polished

21.0 Construction Requirements - Seating, Metal Frame, [Thermoplastic/Polypropylene] [Upholstered] [Mesh][ – NOT USED]

Warranty Requirements:
1. 10 year – Frame and glides or casters.
2. 5 year – Thermoplastic/Polypropylene.
3. 3 year – Fabric and upholstery.
4. Warranty shall cover users up to [300] pounds.

**Testing and Standards:**

ANSI/BIFMA X5.1-2017 General Purpose Office Chairs

**Material**


**General Requirements:**

1. Frame shall be tubular steel or die-cast aluminum welded frame construction.
2. Sled base frame shall be ½” diameter wire rod.
3. Joints shall be welded.
4. Legs shall have welded supports.
5. End caps shall be molded plastic, finished to match frame color, if present.
7. Chair shall have a reinforced back, arms and legs.
8. The seat shall have a waterfall edge.
9. Seats shall flip up to allow chairs to nest.
10. Back flex mechanisms shall gradually increase resistance with applied pressure. Backrests shall have welded steel supports that attach to the back flex mechanism.
11. The back attachment to the frame shall be concealed.
12. Mesh back fabrics shall have elasticity elongation properties that will not allow the mesh to sag, sink, cradle, or hammock.
13. Tablet arm shall have a plywood core with high pressure laminate surface and clear lacquer edge or similar construction.
14. Tablet arm support shall match frame.
15. Tablet arm shall fold down.

**21.1 Item No. CG01-99: Guest Chair, Metal Frame, [Upholstered] [Vinyl] [Wood]**

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Seat Width: 17” minimum  
Seat Depth: 17” minimum

General Requirements: 
a. Fully Upholstered seat and wood back 
b. [2-Piece seat and back] [Seat and back shall meet] 
c. [Open] [Cantilevered] arms [Armless] 
d. Metal [4-leg] [cantilevered] [sled] [base] frame with glides

Finish: 
a. Upholstery: Manufacturer’s standard, woven, stain resistant, mid-grade [patterned, textured, and/or solid] selection; 100,000+ double rubs shall include color  
b. Vinyl: Manufacturer’s standard stain resistant selection; 100,000+ double rubs shall include color  
c. Wood: Manufacturer’s standard hardwood stain selection shall include color  
d. Metal: Manufacturer’s standard powder coat paint selection shall include color

21.2 Item No. [CG] [CB]01-99: [Guest] [Stack] [Break] Chair, Metal Frame, [Thermoplastic/Polypropylene] [Upholstered]  

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Seat Width: 17” minimum  
Seat Depth: 17” minimum

General Requirements:  
a. [Textured] [Perforated] Thermoplastic/Polypropylene, or similar material, seat and back shell with upholstered seat and back pad  
b. [1] [2]-Piece seat and back
c. [Shall have a flexing back mechanism] [Shall have a synchronistic back flex and seat recline mechanism] [Flexing back]
d. [Open] [Cantilevered] arms [Armless]
e. Metal [4-leg] [cantilevered] [sled] frame with glides
f. Stacks minimum (5) high on [floor] [cart]
g. Ganging mechanism, refer to floorplan for quantities

Finish:
a. Upholstery: Manufacturer’s standard, woven, stain resistant, mid-grade [patterned, textured, and/or solid] selection; 100,000+ double rubs shall include color
b. Shell: Manufacturer’s standard thermoplastic/polypropylene, or similar material, selection shall include color
c. Metal: Manufacturer’s standard powder coat paint selection shall include color

21.3 Item No. CR01-99: Training Chair, Metal Frame, [Thermoplastic/Polypropylene] [Upholstered][Mesh Back]

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[Image of training chair]

Item image is for general illustration purposes only and it is not an exact representation of the requirement.

Seat Width: 17" minimum
Seat Depth: 17" minimum

General Requirements:
a. [Upholstered, cushioned seat and [mesh or polymer elastomeric] back] [Textured] [Perforated] [Thermoplastic/Polypropylene], or similar material, seat and back shell [with upholstered seat and back pad]
   i. Mesh portion of back shall be completely encapsulated by the frame to prevent edges of mesh fabric from contacting worksurfaces or walls
b. 2-Piece construction
c. [Shall have a flexing back mechanism] [Shall have a synchronistic back flex and seat recline mechanism] [Flexing back]
d. [Open] [Cantilevered] arms [Armless]
e. Flip up seat
f. Tablet arm flips up 90 degrees
g. 4-Leg metal frame with [soft casters] [glides]
h. 4-Star or 5-Star base with soft casters

Finish:
a. Upholstery: Manufacturer’s standard, woven, stain resistant, mid-grade [patterned, textured, and/or solid] selection; 100,000+ double rubs shall include color
b. Mesh or Polymer Elastomeric: Manufacturer’s standard selection shall include color
c. Shell: Manufacturer’s standard thermoplastic/polypropylene, or similar material, selection shall include color
d. Metal: Manufacturer’s standard powder coat paint selection shall include color

21.4 Item No. [CG] [CR]01-99: [Side] [Training] Chair with Tablet Arm, [Thermoplastic/Polypropylene] [Upholstered]

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Seat Width: 17" minimum
Seat Depth: 17" minimum

[*10% of these chairs shall be left handed.]

General Requirements:
a. [Textured] [Perforated] Thermoplastic/Polypropylene, or similar material, seat and back shell [with upholstered seat and back pad]
b. [1] [2]-Piece seat and back
c. [Shall have a flexing back mechanism] [Shall have a synchronistic back flex and seat recline mechanism] [Flexing back]
d. Back rest shall be reinforced
e. Folding, Laminate tablet arm
   i. Tablet arm support shall match frame
f. Metal [4-leg] [sled] frame with [non-marring glides] [soft casters]

Finish:
   a. Upholstery: Manufacturer’s standard, woven, stain resistant, mid-grade [patterned, textured, and/or solid] selection; 100,000+ double rubs shall include color
   b. Shell: Manufacturer’s standard thermoplastic/polypropylene, or similar material, selection shall include color
   c. High Pressure Laminate: Manufacturer’s standard selection shall include color
   d. Metal: Manufacturer’s standard powder coat paint selection shall include color

22.0 Construction Requirements - Seating, Wood Frame[ – NOT USED]

Warranty Requirements:

1. 10 year – Frame, suspension and glides.
2. 3 year – Upholstery and finishes.

Testing and Standards:

ANSI/BIFMA X5.1-2017 General Purpose Office Chairs

Material

General Requirements:

1. Frame shall be kiln-dried hardwood. Joints shall be carefully fitted, glued and secured with no less than two dowels, mortise and tenon or screws. Joints shall be reinforced with corner blocks that are screwed into the frame.
2. Arms shall be securely attached to the frame with dowels or mechanical fasteners.
3. Back and seat shall have high-resilience, minimum 2.2 lb/cu.ft. density foam over polypropylene webbing, sinuous spring or coil suspension.
4. Seat shall be moderately firm and shall not “bottom out”.
5. Foam shall be cut and contoured to fit the frame and secured with glue.
6. Foam and padding shall be evenly distributed and upholstered to produce a taut, stuffed appearance with no dimpling or lumps.
7. Upholstery shall be stretched tightly and be securely attached with no puckering at edges or skewing of fabric pattern or grain.
8. Welts shall be uniform and lie straight.
9. Glides shall be shall be non-marring and shall not snag carpet flooring.

Wood and Finish Requirements:

1. All wood shall be kiln-dried to a moisture content of 6-8%.
2. Legs shall be kiln-dried solid hardwood.
3. Exposed wood species shall be maple or cherry; beech shall be acceptable for medium to dark finishes only.
4. All exposed wood shall be free from discoloration, splits, grain separation, worm holes, knots, and ruptured grain.
5. Characteristics such as pin knots, sapwood or mineral streaks shall be acceptable in unexposed wood provided the strength of the part is not affected.
6. All exposed wood surfaces shall be sanded smooth and shall have uniform finishing without blisters, pits, wrinkles, runs, or other defects; grain character shall not be obscured or clouded by the finish.
7. Final finish shall achieve at least a semi-open pore level.
8. Stain finish on exposed wood shall match adjacent furnishings.

22.1 Item No. CG01-99: [Transitional] [Contemporary] Guest Chair, Wood Frame, [Upholstered]

| Item image is for general illustration purposes only and it is not an exact representation of the requirement. |

Seat Width: 17” minimum
Seat Depth: 17” minimum

General Requirements:
a. 4-Leg chair with wood frame and upholstered seat and slat back
b. [Open, wood curvilinear arms] [Armless]
c. Exposed wood frame below seat cushion
d. [Separate seat and back] [Seat and back join]
e. Frame, arm and leg shall have [rectilinear] [rounded] detailing
f. Transitional style shall blend traditional and contemporary style elements
g. Style and detailing shall complement item number
h. Manufacturer shall match adjacent casegoods

Finish:
a. Upholstery: Manufacturer’s standard, woven, stain resistant, mid-grade [patterned, textured, and/or solid] selection; 100,000+ double rubs shall include color
b. Faux Leather: Manufacturer’s standard stain resistant selection shall include color
c. Leather: Manufacturer’s standard selection shall include color
d. Wood: Manufacturer’s standard stain selection shall include color

22.2 Item No. CG01-99: Traditional Splat Back Guest Chair, Wood Frame, [Upholstered] [Faux Leather]

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Seat Width: 17” minimum
Seat Depth: 17” minimum

General Requirements:
- a. 4-Leg chair with wood frame, upholstered seat and traditional wood splat back
- b. [Open, wood, curvilinear arms with upholstered arm caps] [Armless]
- c. Exposed wood frame below seat cushion
- d. Cabriole Wood legs with claw and ball feet
- e. Style and detailing shall complement item number
- f. Manufacturer shall match adjacent casegoods

Finish:
- a. Upholstery: Manufacturer’s standard, woven, stain resistant, mid-grade [patterned, textured, and/or solid] selection; 100,000+ double rubs shall include color
- b. Faux Leather: Manufacturer’s standard stain resistant selection shall include color
- c. Leather: Manufacturer’s standard selection shall include color
- d. Wood: Manufacturer’s standard stain selection shall include color

22.3 Item No. CG01-99: Transitional Guest Chair, Wood Frame, [Upholstered] [Faux Leather]

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Item image is for general illustration purposes only and it is not an exact representation of the requirement.
Seat

Width: 17” minimum
Seat Depth: 17” minimum

General Requirements:
- 4-Leg chair with fully upholstered seat and back
- Armless
- Fully upholstered curvilinear arms
  - Arm depth shall be [¾ of] [full] seat depth
- [Tapered] [Square] [Straight] [Flared] legs
- Exposed wood frame below seat cushion
- [Seat and back shall join] [Seat and back shall be separate]
- Style and detailing shall complement item number
- Manufacturer shall match adjacent casegoods

Finish:
- Upholstery: Manufacturer’s standard, woven, stain resistant, mid-grade [patterned, textured, and/or solid] selection; 100,000+ double rubs shall include color
- Faux Leather: Manufacturer’s standard stain resistant selection shall include color
- Leather: Manufacturer’s standard selection shall include color
- Wood: Manufacturer’s standard stain selection shall include color

22.4 Item No. CG01-99: Traditional Guest Chair, Wood Frame, [Upholstered] [Faux Leather]
Seat Width: 17" minimum
Seat Depth: 17" minimum

General Requirements:

a. Style: [Scrolled] [Camel] back
b. 4-Leg chair with fully upholstered seat and back
c. Armless
d. Fully upholstered, [curvilinear] [rolled] arms
   i. Arm depth shall be [¾ of] [full] seat depth
e. Wood arms [with upholstered arm caps]
   i. Arm depth shall be [¾ of] [full] seat depth
f. Seat and back join
g. Exposed wood frame below seat cushion
h. Nail heads
i. [Cabriole] [Tapered] [Square] wood legs
j. Style and detailing shall complement item number
k. Manufacturer shall match adjacent casegoods

Finish:

a. Upholstery: Manufacturer's standard, woven, stain resistant, mid-grade [patterned, textured, and/or solid] selection; 100,000+ double rubs shall include color
b. Faux Leather: Manufacturer's standard stain resistant selection shall include color
c. Leather: Manufacturer's standard selection shall include color
d. Wood: Manufacturer's standard stain selection shall include color

23.0 Construction Requirements – Common Space Furnishings[ – NOT USED]

Warranty Requirements:

1. 5 year or greater – Structure.
2. 5 year – Foam.
3. 5 year – Wood veneer and functional mechanisms.
4. 1 year, minimum – Upholstery.

Testing and Standards:

ANSI/BIFMA X5.4-2012 Lounge Seating
  OR
GSA 3FNE-CO 00-594A/596A Lounge Seating Traditional and Transitional

Material
1. Chair padding materials and fabric shall comply with the State of California Technical Information Bulletins 117 and 133.

General Requirements:

1. Tablet arm shall have a plywood core with high pressure laminate surface and clear lacquer edge or similar construction.
2. Tablet arm support shall match frame.

General Power Requirements:

1. Electrical components shall be manufactured in compliance with NEC regulations and shall be UL approved.
2. Power/Data modules shall be recessed from view and accessed via a touch latch or a hinged or sliding cover.
3. Module shall have CE mark.
4. All electric components shall be compatible with 230V/50HZ [German][Belgium][Italian] power and manufactured with a Schuko Type F plug.

23.1 Item No. LC01-99: Lounge Chair, [Upholstered] [Faux Leather]
Overall Dimensions: W x D x H

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Item image is for general illustration purposes only and it is not an exact representation of the requirement.
Seat Width: 72” minimum  
Seat Depth: 20” minimum  

General Requirements:  
a. Fully upholstered sofa with high backs  
b. Sofa back and sides with screens shall create and support visual and acoustical privacy  
c. Screens shall be attached
Furniture Item Descriptions (FID)
Garrison, State – Bldg. Type, Bldg. #, PN

d. [Tight] [Loose] back cushions

e. [Tight] [Attached] [Semi-attached] [Loose] seat cushions

f. [Rectilinear] [Flared] arms with wood arm caps

g. [Wood base] [Tapered wood] [Metal] feet

h. Style shall be [contemporary] [transitional] [traditional]

i. If modular sections are provided in order to achieve overall dimensions, sections must be ganged

Finish:

a. Upholstery: Manufacturer’s standard, woven, stain resistant, mid-grade [patterned, textured, and/or solid] selection; 100,000+ double rubs shall include color

b. Faux Leather: Manufacturer’s standard stain resistant selection shall include color

c. High Pressure Laminate: Manufacturer’s standard selection shall include color

d. Wood Veneer: Manufacturer’s standard stain selection shall include color

e. Edge: Manufacturer's standard [vinyl/ABS] [solid wood] selection shall [match wood grain pattern][coordinate with worksurface color]

f. Metal: Manufacturer’s standard powder coat paint selection shall include color

23.3 Item No. LM01-99: Modular Group, [Upholstered] [Faux Leather]
Approximate Overall Dimensions: 81"W X 36"D X 37.5"H

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General Requirements:

a. Mid-height sectional sofa and bench grouping shall be composed of 5 modules:
   i. (1) Single seat section, inside curve module, one end
   ii. (1) Double seat section, inside curve module
   iii. (1) Bench or table connector, no back, at center
       a. Shall have high pressure laminate top
   iv. (1) Double seat, outside curve module
   v. (1) Single seat, outside curve module, other end
   vi. Refer to plan for configuration

b. Fully upholstered modular sections

c. [Tight] [Loose] back cushions

d. [Tight] [Attached] [Semi-attached] [Loose] seat cushions
e. Clean-out where back and seat meet
f. [Rectilinear] [Flared] arms with wood arm caps
g. Armless
h. [Wood base] [Tapered wood] [Metal] feet
i. Ganging mechanisms shall have metal to metal connections
j. Style shall be [contemporary] [transitional] [traditional]

Finish:

a. Upholstery: Manufacturer’s standard, woven, stain resistant, mid-grade [patterned, textured, and/or solid] selection; 100,000+ double rubs shall include color
b. Faux Leather: Manufacturer’s standard stain resistant selection shall include color
c. High Pressure Laminate: Manufacturer’s standard selection shall include color
d. Wood Veneer: Manufacturer’s standard stain selection shall include color
e. Edge: Manufacturer’s standard [vinyl/ABS] [solid wood] selection shall [match wood grain pattern][coordinate with worksurface color]
f. Metal: Manufacturer’s standard powder coat paint selection shall include color

23.4 Item No. LC01-99: Recliner, [Upholstered] [Faux Leather]
Overall Dimensions: 31-33 ½”W x 27-33”D x 43-46”H

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Item image is for general illustration purposes only and it is not an exact representation of the requirement.

Seat Width: 23” minimum
Seat Depth: 18 ½” minimum

General Requirements:

a. Fully upholstered recliner with headrest
b. Tight back cushion
c. Tight seat cushion
d. Reclining backrest
e. Fully upholstered foot rest with control lever
f. Closed arms with wood arm caps

g. Metal or wood legs with soft casters

h. Style shall be transitional

Finish:

a. Upholstery: Manufacturer’s standard, woven, stain resistant, mid-grade [patterned, textured, and/or solid] selection; 100,000+ double rubs shall include color

b. Faux Leather: Manufacturer’s standard stain resistant selection shall include color

c. High Pressure Laminate: Manufacturer’s standard selection shall include color

d. Wood Veneer: Manufacturer’s standard stain selection shall include color

e. Edge: Manufacturer’s standard [vinyl/ABS] [solid wood] selection shall [match wood grain pattern][coordinate with worksurface color]

f. Metal: Manufacturer’s standard powder coat paint selection shall include color

23.5 Item No. LB01-99: Bench/Ottoman, [Upholstered] [Faux Leather]

Overall Dimensions: 81-90”W x 23-26”D x 16-17”H

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General Requirements:

a. Fully upholstered bench; may be provided in multiple pieces in order to meet overall dimension, provide in as few pieces as possible

b. Tight seat cushions

c. [Metal] [Wood] legs

d. Style shall be [contemporary] [transitional] [traditional]

Finish:

a. Upholstery: Manufacturer’s standard, woven, stain resistant, mid-grade [patterned, textured, and/or solid] selection; 100,000+ double rubs shall include color

b. Faux Leather: Manufacturer’s standard stain resistant selection shall include color

c. High Pressure Laminate: Manufacturer’s standard selection shall include color

d. Wood Veneer: Manufacturer’s standard stain selection shall include color

e. Edge: Manufacturer’s standard [vinyl/ABS] [solid wood] selection shall [match wood grain pattern][coordinate with worksurface color]

f. Metal: Manufacturer’s standard powder coat paint selection shall include color

23.6 Item No. TL01-99: [Round] [Square] [Rectangular] [End] [Coffee] Table, [Wood Veneer] [Metal/Laminate]
Overall Dimensions: W x D x [16-20 coffee table] [22-30 end table]”H

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Item image is for general illustration purposes only and it is not an exact representation of the requirement.

**General Requirements:**

a. [Wood veneer] [High pressure laminate] [Glass] top
b. [(4) Tapered wood legs] [(4) Metal legs] [Cylinder base]
c. Wood veneer shelf below table top

**Finish:**

a. High Pressure Laminate: Manufacturer’s standard selection shall include color
b. Wood Veneer: Manufacturer’s standard stain selection shall include color
c. Edge: Manufacturer’s standard [vinyl/ABS] [solid wood] selection shall [match wood grain pattern][coordinate with worksurface color]
d. Metal: Manufacturer’s standard powder coat paint selection shall include color
e. Glass: Manufacturer’s standard selection shall include [clear] [frosted]

**24.0 Construction Requirements - Industrial Storage Cabinet[ – NOT USED]**

1. Cabinets shall be constructed of cold rolled steel.
2. Cabinets shall be free of rust and scale. Unit shall be cleaned and pretreated with phosphate to resist rust and corrosion.
3. All exposed edges, corners and surfaces areas shall be smooth formed and free of shape edges.
4. Frames, sills and headers shall be 16-gauge steel.
5. Doors shall be 21-gauge formed steel, reinforced with full length stiffener and include knuckle hinges.
6. Hinges shall be welded to frames and riveted to the door.
7. Top, sides and back shall be a minimum of 22-gauge formed steel.
24.1 **Item No. SN01-99: Industrial Storage Cabinet, Metal**  
Dimensions: 36"W x 24"D x 72-78"H

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**General Requirements:**
- Fully assembled, spot-welded heavy gauge steel construction; knocked down assembly is non-conforming
- 16-Gauge doorframe construction with knuckle hinges
- (4) Adjustable, steel shelves with fixed bottom and top
- Shelves shall have a weight capacity of 200 lbs., minimum
- Provide (2) brush chrome handles with one built in lock for both handles, (standard locking system), [padlock hasp], [3 Point Locking system], [recessed handles]. Locks can be keyed alike and/or master keyed (only for standard double handles)
- Provide shims for leveling

**Finish:**
- Metal: Manufacturer’s standard powder coat paint selection shall include color

24.2 **Item No. SN01-99: Industrial Storage Cabinet, Metal**  
Dimensions: 36"W x 24"D x 78-82"H

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**General Requirements:**
- Fully assembled, spot-welded, 14-gauge steel construction
- (4) Adjustable steel shelves with fixed bottom shelf
- Shelves shall have a weight capacity of 1450 lbs., minimum
- Padlock hasp
- Unit shall be fully assembled and all-welded; knocked down assembly is non-conforming

**Finish:**
- Metal: Manufacturer’s standard powder coat paint selection shall include color

25.0 **Ancillary Items[ – NOT USED]**

25.1 **Item No. SN01-99: [Open] [Closed] Industrial Storage Shelving, Metal**  
Overall Dimensions: [36] [48]"W x [12] [18] [24]"D x [75] [84] [87]"H

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General Requirements:

a. Provide starter/adder units as required per floor plan
b. Heavy beaded or angle post uprights, punched for adjustment
c. Shelf clips with (2) hooks to engage uprights at (2) points
d. Provide cross braces at sides and back of shelving, refer to floor plan for quantity
e. Provide back and side panels
f. (3, 4, 5) Box form shelves
   i. (2, 3, 4) Adjustable shelves, minimum
   ii. Fixed top and bottom shelf
g. (2) Full-height doors with lock
h. Provide floor attachments or wall attachment kits, per manufacturer’s recommendation

Finish:

a. Metal: Manufacturer’s standard powder coat paint selection shall include color
b. Pulls: Manufacturer’s standard selection

25.2 Item No. SN01-99: Open Industrial Bulk Rack Storage Shelving, Metal

[Particleboard] [Corrugated Steel] [Wire] Decking

Overall Dimensions: [48] [60] [72] [96]"W x [24] [30] [36] [42] [48]"D x [72] [84] [96] [120]"H

Researched product lines:

Manufacturer – Product Line

Manufacturer – Product Line

General Requirements:

a. Provide starter/adder units as required per floor plan
b. Steel uprights punched for adjustment
c. Provide box beams or fold-in lock tabs to prevent displacement
d. (3, 4) Adjustable shelves
e. Fixed top and bottom shelf
f. Provide particleboard decking
g. Provide shelf assembly with a weight capacity of 4150 lbs. per shelf
h. Provide shelf assembly with a weight capacity of 3800 lbs. per shelf
i. Provide shelf assembly with a weight capacity of 2750 lbs. per shelf
j. Provide shelf assembly with a weight capacity of 2150 lbs. per shelf
k. Provide manufacturer’s recommended number of shelf supports based on shelf dimension and type
l. Provide back-to-wall support or anchoring foot to secure unit to building structure if required; provide back-to-back support to gang units if required. Refer to floor plans for layouts

Finish:

a. Metal: Manufacturer’s standard powder coat paint selection shall include color

25.3 Item No. TN01-99: Work Bench, Metal
Overall Dimensions: 72"W x 34"D x 27-37"H

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**General Requirements:**

- a. 14-Gauge steel legs with stretcher
- b. Leg levelers adjust to raise/lower top
  - i. Height adjustment, 6" minimum
- c. Full width 12"H x 10"D riser shelf above worksurface
- d. Laminated hardwood worksurface
- e. Full width 18-gauge stringer
- f. Metal shelf/footrest below worksurface
- g. (1) 72"W x 12"D Shelf or (2) 36"W x 12"D shelves with lip/s at back and full depth end panels with vertical wire management
  - i. Provide task lights with bulbs
  - ii. Provide power cord long enough to reach power source
- h. Provide full width column-mounted electrical beam/strip:
  - i. (8) Outlets, minimum
  - ii. Provide power cord long enough to reach power source

**Finish:**

- a. Metal: Manufacturer’s standard powder coat paint selection shall include color
- b. Wood: Manufacturer’s standard sealed hardwood selection
- c. Pulls: Manufacturer’s standard selection shall include recessed or integral, if available

**25.4 Item No. TN01-99: ESD Work Bench, Metal**

Overall Dimensions: 72"W x 28-34"D x 27-37"H

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**General Requirements:**

- a. Height adjustable C-legs or straight legs with adjustable glides, stringer, and overhead frame structure
  - i. Height adjustment, 6” minimum
- b. Full width 12"H x 10"D riser shelf above worksurface
- c. 72"W x 28-34"D Rectangular high pressure ESD laminate worksurface with laminate bullnose front edge and self-edge sides or manufacturer’s standard vinyl/ABS edge-banding
  - i. Tops shall have a minimum weight capacity of 400 lbs.
- d. (1) Freestanding or attached storage pedestal:
  - i. (1) Pedestal, 30"W x 30 1/8"-33 ½"H with a minimum of (4) drawers
  - ii. (1) 2 ¼"-3"H drawer with (32) compartments
iii. (1) 3 7/8-6”H drawer with (36) compartments or similar size 
iv. (1) 5 3/8-6”H drawer with (16) compartments or similar size 
v. (1) 11-12.5”H drawer with (4) compartments or similar size 
e. Metal shelf/footrest below worksurface 
f. (1) 72”W x 12”D Shelf or (2) 36”W x 12”D shelves with lip(s) at back and full depth end panels with vertical wire management 
i. Finish shall match adjacent metal components 
g. Provide full width column-mounted electrical beam/strip: 
i. (8) Outlets, minimum 
ii. Provide power cord long enough to reach power source 
h. Adjustable grounding wrist straps and grounding kit 
i. Provide all grounding accessories and kits to provide a complete grounded unit 

Finish: 
  a. Metal: Manufacturer’s standard powder coat paint selection shall include color 
  b. ESD Laminate: Manufacturer’s standard sealed selection 
  c. Pulls: Manufacturer’s standard selection shall include recessed or integral, if available 

25.5 Item No. AP01-99: Refrigerator

| Researched product lines: | Manufacturer – Product Line | Manufacturer – Product Line |

*Finalize size prior to ordering.

*Contractor shall coordinate with the customer to verify that there are adequate clearances.

General Requirements: 
  a. Separate refrigerator and freezer areas, with a top-mount freezer 
  b. Minimum 21 cu. ft. total capacity, minimum 5 cu. ft. freezer capacity 
  c. If unit comes standard with an ice-maker and/or water dispenser, water supply shall remain disconnected 
  d. Field reversible doors 
  e. Removable bins in the door 
  f. Minimum (1) crisper 
  g. Minimum (2) adjustable shelves in the main compartment 
  h. Automatic moisture control 
  i. Adjustable temperature control 
  j. Interior light 
  k. Frost free 
  l. Energy Star Rated 
  m. UL listed 

Finish:
a. Manufacturer's standard selection shall include color

25.6 Item No. AP01-99: Countertop Microwave

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General Requirements:
- a. 800-1000 W, minimum and 1.0 cu. ft., minimum
- b. Electronic touch controls
- c. Electronic digital display and clock
- d. 60-minute, 60-second timer
- e. (10) Power levels
- f. Defrost cycle
- g. End of cooking reminder
- h. Food turntable
- i. Interior light

Finish:
- a. Manufacturer's standard selection shall include color

25.7 Item No. AC01-99: Articulating Keyboard Tray with Mouse Pad

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General Requirements:
- a. Tray shall have a wrist support/front lip to keep the keyboard from falling forward
- b. Unit shall be easily adjustable without the use of locks or levers
- c. Unit arm mechanism shall have a 15° minimum metal channel allowing movement forwards and backwards
- d. Tray mechanism shall have a negative slope
- e. Unit shall have total knee clearance
- f. Platform shall have a tilt adjustment of 0° to -15°
- g. Platform shall have a 6” height adjustment with increments both above track and below track
- h. Base shall swivel 360-degree
- i. Non-handed mouse pad shall rotate or store under keyboard
- j. Unit shall meet or exceed ANSI/ BIFMA X5.5-2014 Section 16 Standards
- k. Warranty: 10 year

Finish:
- a. Manufacturer's standard selection

25.8 Item No. AC01-99: [Single] [Double] Monitor Arm
Researched product lines:
Manufacturer – Product Line
Manufacturer – Product Line

General Requirements:
a. Shall be [clamp] [bolt-through] [slat wall] mount, confirm configuration after award with end user
b. [Clamp or bolt-through mount shall coordinate and be able to be mounted through the grommets] [Slat wall mount shall coordinate with slats on item number ____]
c. Side-by-side dual monitor arm
d. Each arm shall accommodate a monitor up to 20 lbs.; provide all parts necessary to ensure weight will allow arm to function properly
e. Each arm and monitor shall be able to adjust independently
f. Monitors shall have a rotation of 360-degree for portrait or landscape viewing
g. Quick and easy quick monitor release
h. Unit shall be standard with a 75 mm and 100 mm VESA mounting bracket
i. Provide all necessary parts and pieces in order for monitors to abut
j. Integrated cable management
k. Arm reach shall be 22” minimum
l. Shall have a minimum 11 ½” height adjustment
m. Kit shall include all parts necessary to mount to a worksurface
n. Warranty: 10 year

Finishes:
a. Manufacturer’s standard selection

25.9 Item No. AC01-99: Wastebasket, Plastic

Researched product lines:
Manufacturer – Product Line
Manufacturer – Product Line

General Requirements:
a. Soft radius corners, rolled edges
b. Dent and crush resistant
c. Leak-proof

Finish:
a. Plastic: Manufacturer’s standard selection shall include color

25.10 Item No. AC01-99: Wastebasket, Plastic

Researched product lines:
Manufacturer – Product Line
Manufacturer – Product Line
General Requirements:
   a. Soft radius corners, rolled edges
   b. Dent and crush resistant
   c. Leak-proof
   d. Volume capacity: 41 1/4 qt.

Finish:
   a. Plastic: Manufacturer’s standard selection shall include color

25.11 Item No. AC01-99: Wastebasket, Plastic

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General Requirements:
   a. Soft radius corners, rolled edges
   b. Dent and crush resistant
   c. Leak-proof
   d. Volume capacity: 23 gal.

Finish:
   a. Plastic: Manufacturer’s standard selection shall include color

25.12 Item No. AC01-99: Recycle Container, Plastic

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General Requirements:
   a. Soft radius corners, rolled edges
   b. Dent and crush resistant
   c. Leak-proof
   e. Universal recycle symbol on side

Finish:
   a. Plastic: Manufacturer’s standard selection shall include color

25.13 Item No. AC01-99: Recycle Container, Plastic

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General Requirements:
- Soft radius corners, rolled edges
- Dent and crush resistant
- Leak-proof
- Volume capacity: 41 1/4 qt.
- Universal recycle symbol on side

Finish:
- Plastic: Manufacturer’s standard selection shall include color

25.14 Item No. AC01-99: Recycling Container, Plastic

Researched product lines:

Manufacturer – Product Line
Manufacturer – Product Line

General Requirements:
- Soft radius corners, rolled edges
- Dent and crush resistant
- Leak-proof
- Volume capacity: 23 gal.
- Universal recycle symbol on side

Finish:
- Plastic: Manufacturer’s standard selection shall include color

25.15 Item No. AC01-99: Recycling Receptacle, Fiberglass

Overall Dimensions: 36"W x 16"D x 32"H

Researched product lines:

Manufacturer – Product Line
Manufacturer – Product Line

General Requirements:
- Top contains (2) openings:
  i. [4"] [5½"] [9"] Diameter circle
  ii. [12" x 1¼"] [4"] Paper slot
- (2) Fiberglass Liners
- Fire retardant
- Recycling identification decals
- Leak-proof
- Recycling logo decal

Finish:
- Fiberglass: Manufacturer’s standard selection shall include color

25.16 Item No. AC01-99: Square Restricted Recycling Receptacle, Fiberglass
Overall Dimensions: 16"W x 16"D x 28"H

Researched product lines:
Manufacturer – Product Line
Manufacturer – Product Line

General Requirements:
- a. Top contains (1) opening for [cans] [paper]
- b. (1) Liner
- c. Identification decal for top opening
- d. Leak-proof

Finish:
- a. Fiberglass: Manufacturer’s standard selection shall include color

25.17 Item No. AV01-99: Mobile Lectern
Overall Dimensions: 20"W x 16"D x 44"H

Researched product lines:
Manufacturer – Product Line
Manufacturer – Product Line

General Requirements:
- a. Angled writing surface with pencil lip
- b. Storage section with (2) adjustable shelves
- c. Grommet or wire way in side or bottom and intermediate shelves; cabling shall be able to pass through unit to writing surface
- d. (4) Casters, minimum (2) locking

Finish:
- a. Top: Manufacturer’s standard selection shall include color
- b. Metal: Manufacturer’s standard selection shall include color

25.18 Item No. AC01-99: Chair Cart
Overall Dimensions: W x D x H

Researched product lines:
Manufacturer – Product Line
Manufacturer – Product Line

*Contractor shall enter quantity of chair carts required to accommodate item number on Attachment 1.

General Requirements:
- a. Frame shall have a uni-weld construction with components welded into an integral unit
- b. Integral handle
c. Stacks (50) chairs, minimum

d. Frame shall be 16-gauge steel

e. Removable end posts shall be 18-gauge steel

f. (2) Fixed, (2) swivel 4” wheels
   i. (1) Swivel wheel shall be in the center of cart

g. Shall coordinate with item number

Finish:
a. Metal: Manufacturer’s standard powder coat paint selection shall include color

### 25.19 Item No. EQ01-99: Mail Room Cabinet, Metal

**Overall Dimensions:** 60”W x 30”D x 69”H  
**Table Dimensions:** 60”W x 30”D x 24-36”H  
**Sorter Dimensions:** 60”W x 15”D x 33”H

### Researched product lines:

- Manufacturer – Product Line  
- Manufacturer – Product Line

**General Requirements:**

a. Closed-back mail sorter on storage table  
b. Table has (2) door storage section and laminate top  
c. Thermally fused laminate top with vinyl/ABS edge  
d. Back panel on table has (3) knockouts for wire management  
e. Table has (4) legs that adjust from 24-36”H  
f. Sorter has shelves with thumb-cuts and labeling flanges, adjustable in ½” increments

**Finish:**

a. Metal: Manufacturer’s standard powder coat paint selection shall include color  
b. Pulls: Manufacturer’s standard selection  
c. Thermally Fused Laminate: Manufacturer’s standard selection shall include color

### 25.20 Item No. AV01-99: Magnetic Marker Board, Aluminum Frame

**Overall Dimensions:** W x H

### Researched product lines:

- Manufacturer – Product Line  
- Manufacturer – Product Line

**General Requirements:**

a. Porcelain enameled steel writing surface with aluminum frame  
i. Porcelain enamel coating shall be in accordance with the Porcelain Enamel Institute Standard PEI 1002, excluding the packing and guarantee requirements  
   ii. Porcelain enameled steel shall be backed with material sufficiently rigid to prevent flexing  
   iii. Surface shall be capable of accepting magnetic accessories
b. Frame shall totally and securely enclose the marker board to prevent any movement
c. Aluminum frame shall be extruded and anodized
d. Provide full width marker tray of sufficient size to hold a standard size eraser
   i. Marker tray shall be permanently attached to the bottom of the marker board
   ii. (4) Write on/wipe off markers and eraser
e. Include all mounting brackets for a safe and secure installation

Finish:
a. Board: Manufacturer’s standard selection shall include white
b. Frame: Manufacturer’s standard aluminum selection shall include clear anodized

25.21 Item No. AV01-99: Cork Board
Overall Dimensions: 96"W x 48"H

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General Requirements:
a. Self-healing cork surface with an aluminum frame
   i. Cork shall be backed with material sufficiently rigid to prevent flexing
b. Solid, extruded, aluminum frame with rectilinear profile
   i. The frame shall totally and securely enclose the cork board to prevent any movement
c. Hardware for wall mount shall be included

Finishes:
a. Board: Manufacturer’s standard selection shall include natural cork
b. Frame: Manufacturer’s standard aluminum selection shall include clear anodized

25.22 Item No. AV01-99: Display Case, Wood
Overall Dimensions: 36"W x 14"D x 30"H

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General Requirements:
a. Wall mounted display case
b. Hardwood frame
c. (1) Adjustable shelf, glass
d. Sliding glass doors, locking
e. Plaque fabric oyster back
f. Wall mounting kit

Finish:
a. Wood Veneer: Manufacturer’s standard stain selections shall include color
b. Glass: Manufacturer’s standard tempered selection shall include clear
c. Display back fabric: Manufacturer’s standard selection shall include color

END OF SECTION