Project Title: Click here to enter text.

Location: Click here to enter text.

Current Phase: Choose an item.

Date: Click here to enter a date.

Project Manager: Click here to enter text.

| **2018 P100 Performance Matrix** | Place an **X** for each requirement | | | | |  |
| --- | --- | --- | --- | --- | --- | --- |
| Attribute | Baseline | Tier 1 | Tier2 | Tier 3 | N/A | Notes (Describe how design meets performance or any waivers from a requirement) |
| **1.7.2 Sustainable Performance Requirements** | | | | | |  |
| Energy |  | | | | |  |
| Energy Net Zero |  |  |  |  |  |  |
| Water |  | | | | |  |
| Water Net Zero |  |  |  |  |  |  |
| High Performance Building Technologies |  | | | | |  |
| GSA Proving Ground |  |  |  |  |  |  |
| Construction Personnel |  | | | | |  |
| Green Credentialed |  |  |  |  |  |  |
| **2.1 Urban Planning and Public Use Performance Requirements** | | | | | |  |
| 2.2.1 Sustainable Locations |  | | | | |  |
| Site Supports Neighborhood Connectivity, Walkability, and Transportation Access |  |  |  |  |  |  |
| Site Uses Existing Local Infrastructure Resources and Preserves Natural Resources |  |  |  |  |  |  |
| 2.2.2 Collaborative Design Process |  | | | | |  |
| Design Process Considers Input of Local Officials |  |  |  |  |  |  |
| 2.2.3 Design for Public Use |  | | | | |  |
| Interior |  |  |  |  |  |  |
| Exterior |  |  |  |  |  |  |
| **2.4 Landscape Performance Requirements** | | | | | |  |
| 2.4 Landscape |  | | | | |  |
| Site Soils |  |  |  |  |  |  |
| Vegetation |  |  |  |  |  |  |
| Water Use and Management |  |  |  |  |  |  |
| Stormwater Management |  |  |  |  |  |  |
| Site Materials |  |  |  |  |  |  |
| Pollinators |  |  |  |  |  |  |
| **3.1 Enclosure Performance Requirements** | | | | | |  |
| 3.2.1 Envelope – Natural Hazard |  | | | | |  |
| Seismic Resistance |  |  |  |  |  |  |
| Windborne Debris Resistance |  |  |  |  |  |  |
| Flood Resistance |  |  |  |  |  |  |
| 3.2.2 Envelope – Serviceability |  | | | | |  |
| Wind Resistance |  |  |  |  |  |  |
| 3.2.3 Water Penetration Resistance |  | | | | |  |
| Fenestration |  |  |  |  |  |  |
| Roofing and Horizontal Waterproofing-Membrane System |  |  |  |  |  |  |
| Roofing and Horizontal Waterproofing-Minimum Slope |  |  |  |  |  |  |
| Roofing and Horizontal Waterproofing- Drainage |  |  |  |  |  |  |
| Roofing and Horizontal Waterproofing-Vegetative Systems |  |  |  |  |  |  |
| Roofing and Horizontal Waterproofing-Testing & Monitoring |  |  |  |  |  |  |
| Ground Water Control |  |  |  |  |  |  |
| Below Grade Waterproofing |  |  |  |  |  |  |
| 3.2.4 Moisture and Condensation Control |  | | | | |  |
| Moisture Control Opaque Assemblies |  |  |  |  |  |  |
| Condensation Resistance Fenestration |  |  |  |  |  |  |
| 3.2.5 Air Tightness |  | | | | |  |
| Fenestration |  |  |  |  |  |  |
| Enclosure Airtightness |  |  |  |  |  |  |
| 3.2.6 Thermal Performance |  | | | | |  |
| Thermal Performance |  |  |  |  |  |  |
| 3.2.7 Building Enclosure Commissioning |  | | | | |  |
| Building Enclosure Commissioning |  |  |  |  |  |  |
| 3.2.8 Enclosure Acoustic Control |  | | | | |  |
| Acoustic Control Assuming NC-35 interior |  |  |  |  |  |  |
| 3.2.9 Enclosure Service Life |  | | | | |  |
| Walls |  |  |  |  |  |  |
| Roofs |  |  |  |  |  |  |
| Fenestration |  |  |  |  |  |  |
| **3.4 Interior Performance Requirements** | | | | | |  |
| 3.5.1.1 Solid Core Wood Doors |  | | | | |  |
| Construction |  | LPOE |  |  |  |  |
| Durability |  |  |  |  |  |  |
| Acoustics |  |  |  |  |  |  |
| Hardware |  |  |  |  |  |  |
| Frame |  |  |  |  |  |  |
| Security |  |  |  |  |  |  |
| 3.5.1.2 Hollow Metal Doors |  | | | | |  |
| Construction |  |  |  |  |  |  |
| Durability |  |  |  |  |  |  |
| Acoustics |  |  |  |  |  |  |
| Hardware |  |  |  |  |  |  |
| Frame |  |  |  |  |  |  |
| Security |  |  |  |  |  |  |
| 3.5.1.3 Glazed Aluminum Doors |  | | | | |  |
| Construction |  |  |  |  |  |  |
| Durability |  |  |  |  |  |  |
| Hardware |  |  |  |  |  |  |
| Glazing |  |  |  |  |  |  |
| Security |  |  |  |  |  |  |
| 3.5.1.4 All Glass Entrances |  | | | | |  |
| Construction |  |  |  |  |  |  |
| Glazing |  |  |  |  |  |  |
| Hardware |  |  |  |  |  |  |
| Durability |  |  |  |  |  |  |
| Security |  |  |  |  |  |  |
| 3.5.1.5 Borrowed Lights |  | | | | |  |
| Glazing |  |  |  |  |  |  |
| 3.5.1.6 Wood Framed Interior Lights |  | | | | |  |
| Construction |  |  |  |  |  |  |
| Glazing |  |  |  |  |  |  |
| 3.5.1.7 Hollow Metal Framed Interior Lights |  | | | | |  |
| Construction |  |  |  |  |  |  |
| Frame |  |  |  |  |  |  |
| Glazing |  |  |  |  |  |  |
| 3.5.1.8 Aluminum Framed Interior Lights |  | | | | |  |
| Construction |  |  |  |  |  |  |
| Frame |  |  |  |  |  |  |
| Glazing |  |  |  |  |  |  |
| 3.5.1.9 Metal Stud Partitions |  | | | | |  |
| Construction |  | LPOE |  |  |  |  |
| Durability |  | LPOE |  |  |  |  |
| Height |  | LPOE |  |  |  |  |
| Acoustics |  | LPOE |  |  |  |  |
| Security |  | LPOE |  |  |  |  |
| 3.5.1.10 Masonry Partitions |  | | | | |  |
| Construction |  | LPOE |  |  |  |  |
| Durability |  | LPOE |  |  |  |  |
| Acoustics |  | LPOE |  |  |  |  |
| Security |  | LPOE |  |  |  |  |
| 3.5.1.11 Demountable Partitions |  | | | | |  |
| Construction |  |  |  |  |  |  |
| Acoustics |  |  |  |  |  |  |
| 3.5.1.12 Operable Walls |  | | | | |  |
| Construction |  |  |  |  |  |  |
| Acoustics |  |  |  |  |  |  |
| Operation |  |  |  |  |  |  |
| 3.5.1.13 Millwork and Cabinets |  | | | | |  |
| Construction |  |  |  |  |  |  |
| Durability |  |  |  |  |  |  |
| Quality |  |  |  |  |  |  |
| 3.5.1.14 Countertops |  | | | | |  |
| Construction |  |  |  | LPOE |  |  |
| Durability |  |  |  | LPOE |  |  |
| Quality |  |  |  | LPOE |  |  |
| **3.4 Interior Performance Requirements (cont.)** | | | | | |  |
| 3.5.2.1 Broadloom/Carpet Tile |  |  |  |  |  |  |
| Durability |  |  |  |  |  |  |
| Service Life |  |  |  |  |  |  |
| Environmental |  |  |  |  |  |  |
| 3.5.2.2 Vinyl Composition Tile |  |  |  |  |  |  |
| Durability |  |  |  |  |  |  |
| Maintenance |  |  |  |  |  |  |
| Service Life |  |  |  |  |  |  |
| Environmental |  |  |  |  |  |  |
| 3.5.2.3 Sheet Vinyl |  |  |  |  |  |  |
| Durability |  |  |  |  |  |  |
| Maintenance |  |  |  |  |  |  |
| Service Life |  |  |  |  |  |  |
| Environmental |  |  |  |  |  |  |
| 3.5.2.4 Rubber Tile |  |  |  |  |  |  |
| Durability |  |  |  |  |  |  |
| Maintenance |  |  |  |  |  |  |
| Service Life |  |  |  |  |  |  |
| Environmental |  |  |  |  |  |  |
| 3.5.2.5 Linoleum |  |  |  |  |  |  |
| Durability |  |  |  |  |  |  |
| Maintenance |  |  |  |  |  |  |
| Service Life |  |  |  |  |  |  |
| Environmental |  |  |  |  |  |  |
| 3.5.2.6 Pressed Floor Tile |  |  |  |  |  |  |
| Durability |  |  |  |  |  |  |
| Maintenance |  |  |  |  |  |  |
| Service Life |  |  |  |  |  |  |
| Environmental |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| 3.5.2.7 Porcelain Tile |  |  |  |  |  |  |
| Durability |  |  |  |  |  |  |
| Maintenance |  |  |  |  |  |  |
| Service Life |  |  |  |  |  |  |
| Environmental |  |  |  |  |  |  |
| 3.5.2.8 Quarry Tile |  |  |  |  |  |  |
| Durability |  |  |  |  |  |  |
| Maintenance |  |  |  |  |  |  |
| Service Life |  |  |  |  |  |  |
| Environmental |  |  |  |  |  |  |
| 3.5.2.9 Mosaic Tile |  |  |  |  |  |  |
| Durability |  |  |  |  |  |  |
| Maintenance |  |  |  |  |  |  |
| Service Life |  |  |  |  |  |  |
| Environmental |  |  |  |  |  |  |
| 3.5.2.10 Limestone Tile |  |  |  |  |  |  |
| Durability |  |  |  |  |  |  |
| Maintenance |  |  |  |  |  |  |
| 3.5.2.11 Slate Tile |  |  |  |  |  |  |
| Durability |  |  |  |  |  |  |
| Maintenance |  |  |  |  |  |  |
| 3.5.2.12 Marble |  |  |  |  |  |  |
| Durability |  |  |  |  |  |  |
| Maintenance |  |  |  |  |  |  |
| 3.5.2.13 Granite |  |  |  |  |  |  |
| Durability |  |  |  |  |  |  |
| Maintenance |  |  |  |  |  |  |
| 3.5.2.14 Terrazzo |  |  |  |  |  |  |
| Durability |  |  |  |  |  |  |
| Maintenance |  |  |  |  |  |  |
| Environmental |  |  |  |  |  |  |
| 3.5.2.15 Laminate Flooring |  |  |  |  |  |  |
| Durability |  |  |  |  |  |  |
| Maintenance |  |  |  |  |  |  |
| Service Life |  |  |  |  |  |  |
| Environmental |  |  |  |  |  |  |
| 3.5.2.16 Wood Flooring |  |  |  |  |  |  |
| Durability |  |  |  |  |  |  |
| Maintenance |  |  |  |  |  |  |
| Environmental |  |  |  |  |  |  |
| 3.5.2.17 Bamboo Flooring |  |  |  |  |  |  |
| Durability |  |  |  |  |  |  |
| Maintenance |  |  |  |  |  |  |
| Environmental |  |  |  |  |  |  |
| 3.5.2.18 Glazed Wall Tile |  |  |  |  |  |  |
| Durability |  |  |  |  |  |  |
| Maintenance |  |  |  |  |  |  |
| Service Life |  |  |  |  |  |  |
| Environmental |  |  |  |  |  |  |
| 3.5.2.19 Interior Architectural Coatings |  |  |  |  |  |  |
| Durability |  |  |  |  |  |  |
| Environmental – Flat, Nonflat, and Nonflat High Gloss Coatings |  |  |  |  |  |  |
| Environmental – All other architectural coatings |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| 3.5.2.20 Exterior Architectural Coatings |  |  |  |  |  |  |
| Durability – Blistering |  |  |  |  |  |  |
| Durability – Erosion |  |  |  |  |  |  |
| Durability – Flacking/Peeling |  |  |  |  |  |  |
| Durability – Biologic Growth |  |  |  |  |  |  |
| Environmental |  |  |  |  |  |  |
| 3.5.2.21 Wall Covering – Type II |  |  |  |  |  |  |
| Durability |  |  |  |  |  |  |
| Maintenance |  |  |  |  |  |  |
| Environmental |  |  |  |  |  |  |
| 3.5.2.22 Wall Paneling Plastic/Laminate |  |  |  |  |  |  |
| Durability |  |  |  |  |  |  |
| Maintenance |  |  |  |  |  |  |
| Service Life |  |  |  |  |  |  |
| Environmental |  |  |  |  |  |  |
| 3.5.2.23 Wall Paneling/Wood |  |  |  |  |  |  |
| Durability |  |  |  |  |  |  |
| Maintenance |  |  |  |  |  |  |
| Environmental |  |  |  |  |  |  |
| 3.5.2.24 Wall Paneling/Composite Board |  |  |  |  |  |  |
| Durability |  |  |  |  |  |  |
| Maintenance |  |  |  |  |  |  |
| Environmental |  |  |  |  |  |  |
| 3.5.2.25 Wall Paneling/Sculptural Panel |  |  |  |  |  |  |
| Durability |  |  |  |  |  |  |
| Maintenance |  |  |  |  |  |  |
| Environmental |  |  |  |  |  |  |
| 3.5.2.26 Wall Base |  |  |  |  |  |  |
| Durability |  |  |  |  |  |  |
| Maintenance |  |  |  |  |  |  |
| Service Life |  |  |  |  |  |  |
| Environmental |  |  |  |  |  |  |
| 3.5.2.27 Acoustical Ceilings |  |  |  |  |  |  |
| Acoustics Open Office – NRC |  |  |  |  |  |  |
| Acoustics Open Office – CAC |  |  |  |  |  |  |
| Acoustics Open Office – Privacy Index |  |  |  |  |  |  |
| Acoustics Open Office – Sound Masking |  |  |  |  |  |  |
| Acoustics Open Office – Reverberation Time |  |  |  |  |  |  |
| Acoustics Enclosed Office - NRC |  |  |  |  |  |  |
| Acoustics Enclosed Office – CAC |  |  |  |  |  |  |
| Acoustics Enclosed Office – Privacy Index |  |  |  |  |  |  |
| Acoustics Enclosed Office – Sound Masking |  |  |  |  |  |  |
| Acoustics Enclosed Office – Reverberation Time |  |  |  |  |  |  |
| Durability – Impact Resistance |  |  |  |  |  |  |
| Durability – Scratch Resistance |  |  |  |  |  |  |
| Durability – Moisture Resistance |  |  |  |  |  |  |
| Maintenance |  |  |  |  |  |  |
| Service Life |  |  |  |  |  |  |
| Environmental – Recycled Content |  |  |  |  |  |  |
| Environmental – Recyclable |  |  |  |  |  |  |
| Environmental – BioPreferred |  |  |  |  |  |  |
| Environmental – Light Reflectance |  |  |  |  |  |  |
| Environmental – Low Emitting |  |  |  |  |  |  |
| Environmental – EPD |  |  |  |  |  |  |
| Environmental – Ingredient Disclosure |  |  |  |  |  |  |
| **3.7 Workplace Performance Requirements** | | | | | |  |
| 3.8.1 Planning and Design |  | | | | |  |
| Goal Setting |  |  |  |  |  |  |
| Planning & Design Process |  |  |  |  |  |  |
| Requirements Development |  |  |  |  |  |  |
| Balance of All Design Factors |  |  |  |  |  |  |
| 3.8.2 Space Efficiency |  | | | | |  |
| Right-Sizing |  |  |  |  |  |  |
| Workstation and Office Sharing |  |  |  |  |  |  |
| 3.8.3 Technology |  | | | | |  |
| Network Access |  |  |  |  |  |  |
| Phone |  |  |  |  |  |  |
| 3.8.4 Health and Confort: Environmental Controls |  | | | | |  |
| Ventilation and Thermal Comfort |  |  |  |  |  |  |
| Lighting/Daylighting |  |  |  |  |  |  |
| Acoustic Comfort |  |  |  |  |  |  |
|  |  | | | | |  |
| 3.8.5 Health and Comfort: Ergonomics |  | | | | |  |
| Adjustability |  |  |  |  |  |  |
| Building Amenities |  |  |  |  |  |  |
| 3.8.6 Flexibility/Efficiency |  | | | | |  |
| Space Utilization |  |  |  |  |  |  |
| Partitions and Interior Walls |  |  |  |  |  |  |
| Alternative Working Environments/Methods of Working |  |  |  |  |  |  |
| Promote Equitable Resources, Amenities, and Alternative Ways of Working |  |  |  |  |  |  |
| 3.8.7 Image |  | | | | |  |
| Work place Image |  |  |  |  |  |  |
| Wayfinding |  |  |  |  |  |  |
| **4.1 Structural Performance Requirements** | | | | | |  |
| 4.2.1 Live Load |  | | | | |  |
| Vibrations |  |  |  |  |  |  |
| 4.2.2 Natural Hazard |  | | | | |  |
| Wind |  |  |  |  |  |  |
| Seismic – Structure |  |  |  |  |  |  |
| Seismic – Nonstructural |  |  |  |  |  |  |
| Flood Mitigation |  |  |  |  |  |  |
| 4.4 Physical Security Performance Requirements |  | | | | |  |
| Physical Security Performance |  |  | LPOE |  |  |  |
| **5.1 Mechanical Performance Requirements** | | | | | |  |
| 5.2.1 Temperature |  | | | | |  |
| Performance |  |  |  |  |  |  |
| 5.2.2 Humidity Control |  | | | | |  |
| Performance |  |  |  |  |  |  |
| 5.2.3 Air Movement |  | | | | |  |
| Performance |  |  |  |  |  |  |
| 5.2.4 Pressure |  | | | | |  |
| Performance |  |  |  |  |  |  |
| 5.2.5 Ventilation |  | | | | |  |
| Performance |  |  |  |  |  |  |
| 5.2.6 Filtration |  | | | | |  |
| Performance |  |  |  |  |  |  |
| 5.2.7 HVAC Noise Control |  | | | | |  |
| Performance |  |  |  |  |  |  |
| 5.2.8 HVAC Operational Efficiency |  | | | | |  |
| Equipment Performance |  |  |  |  |  |  |
| Fan Energy Performance |  |  |  |  |  |  |
| Building HVAC Energy Performance |  |  |  |  |  |  |
| HVAC Energy Metering |  |  |  |  |  |  |
| **6.1 Lighting Performance Requirements** | | | | | |  |
| 6.2.1 Lighting Quality – Interior |  | | | | |  |
| Luminance Balance |  |  |  |  |  |  |
| Spectral Distribution |  |  |  |  |  |  |
| CCT |  |  |  |  |  |  |
| CRI |  |  |  |  |  |  |
| Lighting layers |  |  |  |  |  |  |
| Ambient |  |  |  |  |  |  |
| Personalized |  |  |  |  |  |  |
| User Acceptance |  |  |  |  |  |  |
| 6.2.1 Lighting Quality – Exterior |  | | | | |  |
| CCT |  |  |  |  |  |  |
| CRI |  | LPOE |  |  |  |  |
| Environmental |  |  |  |  |  |  |
| User Acceptance |  |  |  |  |  |  |
| Light Pollution/Light Trespass |  |  |  |  |  |  |
| 6.2.2 Lighting Quantity - Interior |  | | | | |  |
| Illuminance – Horizontal |  |  |  |  |  |  |
| Illuminance – Vertical |  |  |  |  |  |  |
| Surface Reflectance |  |  |  |  |  |  |
| Operational Efficiency – Ambient |  |  |  |  |  |  |
| Operational Efficiency – Personalized |  |  |  |  |  |  |
| Daylight Autonomy |  |  |  |  |  |  |
| 6.2.2 Lighting Quantity – Exterior |  | | | | |  |
| Illuminance – Horizontal |  |  |  |  |  |  |
| Illuminance – Vertical |  |  |  |  |  |  |
| 6.2.3 Lighting Energy Use – Interior |  | | | | |  |
| System Efficiency |  |  |  |  |  |  |
| Controls |  |  |  |  |  |  |
| Real Time Energy Use |  |  |  |  |  |  |
| 6.2.3 Lighting Energy Use – Exterior |  | | | | |  |
| Lighting Power Density |  |  |  |  |  |  |
| Controls |  |  |  |  |  |  |
| Real Time Energy Use |  |  |  |  |  |  |
| 6.2.4 Power Quality |  | | | | |  |
| Power Factor (Full Light Output) |  |  |  |  |  |  |
| Power Factor (Fully Dimmed) |  |  |  |  |  |  |
| Total Harmonic Distortion at the LED Driver (Full Light Output) |  |  |  |  |  |  |
| Total Harmonic Distortion at the LED Driver (Fully Dimmed) |  |  |  |  |  |  |
| Wiring |  |  |  |  |  |  |
| 6.2.5 Maintenance |  | | | | |  |
| Equipment Life |  |  |  |  |  |  |
| Accessibility |  |  |  |  |  |  |
| Diagnostics |  |  |  |  |  |  |
| 6.2.6 Service Life |  | | | | |  |
| Replacement |  |  |  |  |  |  |
| Retrofit |  |  |  |  |  |  |
|  | | | | | |  |
| **6.4 Electrical Performance Requirements** | | | | | |  |
| 6.4.3 Transformers |  | | | | |  |
| Efficiencies for Network Transformers |  |  |  |  |  |  |
| Insulating Fluid |  |  |  |  |  |  |
| Efficiencies for Low-Voltage Distribution |  |  |  |  |  |  |
| Impedance for Low-Voltage Distribution |  |  |  |  |  |  |
| Harmonic Rated |  |  |  |  |  |  |
| 6.4.2 Variable Frequency Drives |  | | | | |  |
| 5hp Motors |  |  |  |  |  |  |
| 30hp Motors |  |  |  |  |  |  |
| 125hp Motors |  |  |  |  |  |  |
| 6.4.3 Metering/Monitoring Trending |  | | | | |  |
| Building Mains |  |  |  |  |  |  |
| Feeders |  |  |  |  |  |  |
| Trending |  |  |  |  |  |  |
| 6.4.4 Building Automation System |  | | | | |  |
| Electrical Meter Input |  |  |  |  |  |  |
| PV System Input |  |  |  |  |  |  |
| Automatic Transfer Switches Input |  |  |  |  |  |  |
| Standby Generator Input |  |  |  |  |  |  |
| Uninterruptible Power Systems Input |  |  |  |  |  |  |
| Variable Frequency Drives Input |  |  |  |  |  |  |
| Motor Starters Input |  |  |  |  |  |  |
| Additional Computer-Based BAS Interface |  |  |  |  |  |  |
| Additional Computer-Based BAS Energy Management |  |  |  |  |  |  |
| 6.4.5 Interior Electrical Distribution |  | | | | |  |
| Energy Saving Controls |  |  |  |  |  |  |
| 6.4.6 Arc- Flash Reduction |  | | | | |  |
| ARMS |  |  |  |  |  |  |
| 6.4.7 Power Factor Correction |  | | | | |  |
| Power Factor |  |  |  |  |  |  |
| 6.4.8 Surge Protection Devices |  | | | | |  |
| 277/480 Volt distribution at Main Switchgear |  |  |  |  |  |  |
| 277/480V Volt distribution at Distribution Panels |  |  |  |  |  |  |
| 277/480V Volt Branch Panels |  |  |  |  |  |  |
| 120/208V Volt Branch Panels |  |  |  |  |  |  |
| 6.4.9 Lightning Protection Systems |  | | | | |  |
| UL Compliance |  |  |  |  |  |  |
| UL Master Label |  |  | LPOE |  |  |  |
| Surge Protection |  |  |  |  |  |  |
| 6.4.10 Grounding |  | | | | |  |
| Earth Counterpoise |  |  |  |  |  |  |
| Separate Grounding System |  |  |  |  |  |  |
| Equipment Grounding Conductors |  |  |  |  |  |  |
| 6.4.11 Uninterruptible Power Systems |  | | | | |  |
| Efficiency |  |  |  |  |  |  |
| Power Factor – Output |  |  |  |  |  |  |
| Power Factor - Input |  |  |  |  |  |  |
| Input Harmonics |  |  |  |  |  |  |