

DIVISION 11 - EQUIPMENT

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11 00 00. EQUIPMENT

10 00 03. GENERAL PROVISIONS

- .1 Refer to PART ONE, paragraph 00037, Fixtures, Furniture and Equipment (FF&E)
- .2 DESIGNS: The Associate shall provide layouts of both Movable and Fixed Equipment identified in the POR to ascertain function and space usage for the project. Submittals are required as outlined in the Associate Agreement for Basic Services.

The Associate shall specify all utility fittings and fixtures for equipment equal to that specified for the Divisions for Facilities Services Subgroup.

The Associate shall specify that all Automatic Shut-off Valves have a 10 year written warranty.

- .3 CONSTRUCTION COORDINATION: The Associate shall clearly define contractor responsibilities relative to receiving, storage and installing. Installation is to include any hook-up required.

The Associate is to locate and coordinate all blocking, support and services for installation of all items in this Division.

11 10 00. VEHICLE AND PEDESTRIAN EQUIPMENT

11 13 00. LOADING DOCK EQUIPMENT

- .1 DESIGNS: All product specifications, accessory items, applications and details are to be reviewed and approved by the University Architect prior to the final development of the Construction Documents.

Dock doors shall be at least 9'-0" wide and should be 12'-8" minimum on center when multiple doors are used. Pavement slope is a serious concern relative to drainage and to truck bed floor/building floor/canopy relationship. Loading docks shall be at the same elevation as a floor of the building and shall be either 44 inches minimum to 46 inches maximum above the adjacent pavement or shall be provided with a load leveler. Check height requirements with the University Architect; a different dock height might be required if step van vehicles, only, are used. Loading docks must not be located at or near fresh air intakes for buildings. Unless this is done, the exhaust from idling vehicles will be drawn into buildings and expose inhabitants to toxic airborne contaminants.

- .2 BUDGET ALLOCATIONS: All Loading Dock Equipment is considered Fixed Equipment and acquired through one or more of the Construction contracts within the project budget

11 14 00. PEDESTRIAN CONTROL EQUIPMENT

- .1 DESIGNS: All product specifications, accessory items, applications and details are to be reviewed and approved by the University Architect prior to the final development of the Construction Documents.

If the Program of Requirements calls for pedestrian control but does not detail the requirements for pedestrian control, the University Architect will consult the using agency and the Department of Public Safety and will indicate the kind of control devices required.

11 10 00. VEHICLE AND PEDESTRIAN EQUIPMENT (Cont'd)

11 14 00. PEDESTRIAN CONTROL EQUIPMENT (Cont'd)

Control devices shall be planned to provide ample room for the passage of wheelchairs and crutches. The University Architect will review these devices for clearances per ADA requirements.

.2 CONSTRUCTION COORDINATION: The Associate is to coordinate all Pedestrian control devices that are used in conjunction with electronic security systems. Installations will require close coordination with electrical installations.

11 20 00. COMMERCIAL EQUIPMENT

11 21 00. MERCANTILE AND SERVICE EQUIPMENT

11 21 23. VENDING EQUIPMENT

.1 DESIGNS: Vending equipment will be provided under separate contracts with a franchisee. All required power, data, plumbing, lighting and planning for these services shall be a part of the Construction Documents.

11 24 00. MAINTENANCE EQUIPMENT

.1 DESIGNS: All product specifications, accessory items, applications and details are to be reviewed and approved by the University Architect prior to the final development of the Construction Documents. The Associate shall be alerted to plan for the storage and service needs of all equipment within maintenance rooms.

.2 BUDGET ALLOCATIONS: Fixed maintenance equipment will be acquired through one or more of the Construction contracts within the project budget. Movable service maintenance equipment for a project is acquired by the University utilizing a fund allocation within the total project funds but independent of the Construction budget.

11 26 00. UNIT KITCHENS

.1 DESIGNS: All product specifications, accessory items, colors, finishes, applications and details are to be reviewed and approved by the University Architect prior to the final development of the Construction Documents.

.2 BUDGET ALLOCATIONS: Fixed Unit Kitchens shall be considered Fixed Equipment and are funded within the Construction Budget.

11 28 00. OFFICE EQUIPMENT

.1 Refer to PART ONE, paragraph 00037, Fixtures, Furniture and Equipment (FF&E) and Division 12 Furnishings.

11 29 00. POSTAL, PACKAGING AND SHIPPING EQUIPMENT

.1 Refer to Division 10 Specialties and Division 12 Furnishings.

.2 DESIGNS: All product specifications, accessory items, colors, finishes, applications and details are to be reviewed and approved by the University Architect prior to the final development of the Construction Documents.

11 20 00. COMMERCIAL EQUIPMENT (Cont'd)

11 29 00. POSTAL, PACKAGING AND SHIPPING EQUIPMENT (Cont'd)

.3 BUDGET ALLOCATIONS: Fixed Postal and Shipping Equipment shall be considered Fixed Equipment and are funded within the Construction Budget. Movable Postal and Shipping Equipment is considered Movable Equipment and acquired by the University utilizing a fund allocation within the total project funds but independent of the Construction budget.

11 50 00. EDUCATIONAL AND SCIENTIFIC EQUIPMENT

11 51 00. LIBRARY EQUIPMENT

11 51 19. BOOK THEFT PROTECTION EQUIPMENT

.1 DESIGNS: All product specifications, accessory items, colors, finishes, applications and details are to be reviewed and approved by the University Architect prior to the final development of the Construction Documents.

.2 BUDGET ALLOCATIONS: Theft Protection and security equipment items shall be considered Fixed Equipment and are funded within the Construction Budget.

11 51 23. LIBRARY STACK SYSTEMS

.1 DESIGNS: All product specifications, accessory items, colors, finishes, applications and details are to be reviewed and approved by the University Architect prior to the final development of the Construction Documents. The Building Design and Construction Documents must include all structural requirements, services and construction coordination for the installation of this equipment.

.2 BUDGET ALLOCATIONS: Library Stack Systems shall be considered Fixed Equipment and are funded within the Construction Budget. In some cases, the University may choose to purchase Library Stack Systems for a project. In these cases, the cost of the equipment is moved from Construction funds to Equipment funds for purchase.

11 51 23.13 METAL LIBRARY SHELVING

.1 DESIGNS: All product specifications, accessory items, colors, finishes, applications and details are to be reviewed and approved by the University Architect prior to the final development of the Construction Documents. The Building Design and Construction Documents must include all structural requirements, services and construction coordination for the installation of this equipment.

The University has selected standard products for use. All proposals shall require approval of the University Architect prior to finalization of the Construction Documents.

.2 BUDGET ALLOCATIONS: Metal Library Shelving shall be considered Fixed Equipment and are funded within the Construction Budget. In some cases, the University may choose to purchase Metal Library Shelving for a project. In these cases, the cost of the equipment is moved from Construction funds to Equipment funds for purchase.

11 52 00. AUDIO VISUAL EQUIPMENT

.1 DESIGNS: Audio-Visual equipment is considered Technology. Both Fixed and Movable Technology design and specifications will be provided by the University through separate Contracts. The timing for technology design must coincide with the development of

11 50 00. EDUCATIONAL AND SCIENTIFIC EQUIPMENT (Cont'd)

11 52 00. AUDIO VISUAL EQUIPMENT (Cont'd)

Design and Construction Documents and prior to bidding. The Associate must be involved in the development of the technology design and be responsible for the coordination of equipment locations, required blocking and other construction needs, required power, data and associated services to this equipment.

.2 BUDGET ALLOCATIONS: Audio-Visual Equipment shall be considered Fixed Equipment or Movable Equipment.

FIXED EQUIPMENT: Examples of Fixed Audio-Visual Equipment are motorized projection screens and projector lifts which need to be provided and installed by a General Contractor.

MOVABLE EQUIPMENT: Examples of Movable Equipment are projectors, speakers, equipment racks, rack equipment and podiums.

.3 CONSTRUCTION COORDINATION: The Associate is to coordinate all required power and services leading to Fixed and Movable Audio-visual locations on the Construction Drawings. Provide detailed riser diagrams and special attention to ceiling mounted projectors locations, equipment rack locations, and podium locations. The ceiling projector pole mount and location will be provided for Construction Contractor installation.

11 52 13. PROJECTION SCREENS

.1 DESIGNS: The University will provide detailed specifications for all classroom and conference room projection screens.

.2 MOTORIZED AND RECESSED SCREENS: All motorized and recessed ceiling screens will be considered Fixed Equipment and provided as part of the Construction Documents.

.3 WALL MOUNTED PROJECTION SCREENS: All classroom and conference room projection screens will be considered Fixed Equipment and provided as part of the Construction Documents.

11 53 00. LABORATORY EQUIPMENT

.1 Refer to Appendix N for Laboratory equipment details.

.2 DESIGNS: All product specifications, accessory items, colors, finishes, applications and details are to be reviewed and approved by the University Architect prior to the final development of the Construction Documents.

.3 BUDGET ALLOCATIONS: Unless otherwise noted, all Laboratory equipment items shall be considered Fixed Equipment and are funded within the Construction Budget. In some cases the University may choose to purchase Metal Library Shelving for a project. In these cases, the cost of the equipment is moved from Construction funds to Equipment funds for purchase.

11 55 00. PLANETARIUM EQUIPMENT

.1 DESIGNS: All product specifications, accessory items, colors, finishes, applications and details are to be reviewed and approved by the University Architect prior to the final development of the Construction Documents.

11 50 00. EDUCATIONAL AND SCIENTIFIC EQUIPMENT (Cont'd)

11 55 00. PLANETARIUM EQUIPMENT (Cont'd)

.2 BUDGET ALLOCATIONS: Unless otherwise noted, all Planetarium equipment shall be considered Fixed Equipment and are funded within the Construction Budget.

11 56 00. OBSERVATORY EQUIPMENT

.1 DESIGNS: All product specifications, accessory items, colors, finishes, applications and details are to be reviewed and approved by the University Architect prior to the final development of the Construction Documents.

.2 BUDGET ALLOCATIONS: Unless otherwise noted, all Observatory equipment shall be considered Fixed Equipment and are funded within the Construction Budget.

11 60 00. ENTERTAINMENT EQUIPMENT

.1 DESIGNS: All product specifications, accessory items, colors, finishes, applications and details are to be reviewed and approved by the University Architect prior to the final development of the Construction Documents.

.2 BUDGET ALLOCATIONS: Unless otherwise noted, all Entertainment Equipment shall be considered Fixed Equipment and are funded within the Construction Budget. Exceptions to this are smaller Movable Equipment items which will be purchased by the University as Movable Equipment.

11 65 00. ATHLETIC AND RECREATIONAL EQUIPMENT

.1 DESIGNS: All product specifications, accessory items, colors, finishes, applications and details are to be reviewed and approved by the University Architect prior to the final development of the Construction Documents.

.2 BUDGET ALLOCATIONS: All Athletic and Recreational Equipment shall be considered Fixed Equipment and are funded within the Construction Budget. Exceptions to this are smaller Movable Equipment items which are acquired by the University utilizing a fund allocation within the total project funds but independent of the Construction budget.

11 70 00. HEALTHCARE EQUIPMENT

.1 DESIGNS: All product specifications, accessory items, colors, finishes, applications and details are to be reviewed and approved by the University Architect prior to the final development of the Construction Documents.

.2 BUDGET ALLOCATIONS: All Healthcare Equipment shall be considered Fixed Equipment and are funded within the Construction Budget. In some cases, the University may choose to purchase Healthcare Equipment for a project. In these cases, the cost of the equipment is moved from Construction funds to Equipment funds for purchase.

Smaller Movable Equipment items are considered movable equipment and are acquired by the University utilizing a fund allocation within the total project funds but independent of the Construction budget.

END OF DIVISION 11 - EQUIPMENT