DIVISION 13 – SPECIAL CONSTRUCTION
13 00 00 SPECIAL CONSTRUCTION
13 01 00 Operation and Maintenance of Special Construction
13 01 10 Operation and Maintenance of Special Facility Components
13 01 11 Operation and Maintenance of Swimming Pools
13 01 12 Operations and Maintenance of Fountains
13 01 13 Operation and Maintenance of Aquariums
13 01 14 Operation and Maintenance of Amusement Park Structures and Equipment
13 01 18 Operation and Maintenance of Ice Rinks
13 01 20 Operation and Maintenance of Special Purpose Rooms
13 01 21 Operation and Maintenance of Controlled Environment Rooms
13 01 23 Operation and Maintenance of Planetariums
13 01 30 Operation and Maintenance of Special Structures
13 01 40 Operation and Maintenance of Integrated Construction
13 01 49 Operation and Maintenance of Radiation Protection
13 01 50 Operation and Maintenance of Special Instrumentation
13 01 51 Operation and Maintenance of Stress Instrumentation
13 01 52 Operation and Maintenance of Seismic Instrumentation
13 01 53 Operation and Maintenance of Meteorological Instrumentation

13 05 00 Common Work Results for Special Construction

13 06 00 Schedules for Special Construction
13 06 10 Schedules for Special Facility Components
13 06 20 Schedules for Special Purpose Rooms
13 06 30 Schedules for Special Structures
13 06 40 Schedules for Integrated Construction
13 06 50 Schedules for Special Instrumentation

13 08 00 Commissioning of Special Construction
13 08 10 Commissioning of Special Facility Components
13 08 11 Commissioning of Swimming Pools
13 08 12 Commissioning of Fountains
13 08 13 Commissioning of Aquariums
13 08 14 Commissioning of Amusement Park Structures and Equipment
13 08 18 Commissioning of Ice Rinks
13 08 20 Commissioning of Special Purpose Rooms
13 08 21 Commissioning of Controlled Environment Rooms
13 08 23 Commissioning of Planetariums
13 08 30 Commissioning of Special Structures
13 08 40 Commissioning of Integrated Construction
13 08 50 Commissioning of Special Instrumentation

13 10 00 SPECIAL FACILITY COMPONENTS
13 11 00 Swimming Pools
13 11 13 Below-Grade Swimming Pools
13 11 23 On-Grade Swimming Pools
13 11 33 Elevated Swimming Pools
13 11 43 Recirculating Gutter Systems
13 11 46 Swimming Pool Accessories
13 11 49 Swimming Pool Cleaning Equipment
13 11 53 Movable Pool Bulkheads
13 11 56 Movable Pool Floors

13 12 00 Fountains
13 12 13 Exterior Fountains
13 12 23 Interior Fountains

13 13 00 Aquariums

13 14 00 Amusement Park Structures and Equipment
13 14 13 Water Slides
13 14 16 Wave Generating Equipment
13 14 23 Amusement Park Rides

13 17 00 Tubs and Pools
13 17 13 Hot Tubs
13 17 23 Therapeutic Pools
13 17 33 Whirlpool Tubs

13 18 00 Ice Rinks
13 18 13 Ice Rink Floor Systems
13 18 16 Ice Rink Dasher Boards

13 19 00 Kennels and Animal Shelters
13 19 13 Kennel Enclosures and Gates
13 19 16 Kennel Feeding Devices

13 20 00 SPECIAL PURPOSE ROOMS

Mechanical Rooms

1.01 All HVAC equipment with the exception of air control devices, fan coil units, and roof-mounted exhaust fans shall be located in a mechanical room.

1.02 Fan coil units shall condition mechanical rooms. Ventilation of mechanical rooms using outside air will not be permitted.

1.03 Mechanical rooms shall have an appropriate number of floor drains. Floor drains shall be equipped with automatic trap primers in accordance with the Arkansas Mechanical Code and shall be plumbed to sanitary sewer.
1.04 Mechanical rooms include a designated area for electrical panels and control panels and associated working clearances. Panel locations shall be indicated on the mechanical Construction Documents.

1.05 Mechanical rooms shall be of sufficient size to provide adequate space for equipment access. Equipment access requirements shall be coordinated with the equipment manufacturers and shall be indicated on the Construction Documents.

1.06 Mechanical room lighting shall provide a minimum illumination level of 15 footcandles at 30” AFF. Light fixture locations shall be coordinated with equipment, duct, and piping locations such that equipment work areas are adequately illuminated.

1.07 Mechanical rooms shall be equipped with heat and smoke detectors connected to the building fire alarm system.

1.08 Mechanical rooms shall be equipped with a fire alarm A/V device, portable fire extinguisher, telephone outlet, and data outlet.

1.09 Mechanical rooms housing refrigeration equipment shall be designed in compliance with the Arkansas Mechanical Code and ASHRAE Standard 15.

1.10 Mechanical room partition fire resistance ratings shall be comply with applicable codes and regulations and shall be coordinated with the Architect.

1.11 Mechanical equipment shall be installed on housekeeping pads.

1.12 Large rotating mechanical equipment that is not internally isolated shall be installed on vibration isolation pads.

1.13 Mechanical room partitions, floors, and ceilings (if applicable) shall have a minimum Sound Transmission Coefficient (STC) rating of 45.

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1 For coordination purposes.
13 21 00 Controlled Environment Rooms
13 21 13 Clean Rooms
13 21 16 Hyperbaric Rooms
13 21 23 Insulated Rooms
13 21 26 Cold Storage Rooms
13 21 29 Constant Temperature Rooms
13 21 48 Sound-Conditioned Rooms

13 22 00 Office Shelters and Booths
13 23 00 Planetariums
13 24 00 Special Activity Rooms
13 24 16 Saunas
13 24 26 Steam Baths
13 24 66 Athletic Rooms

13 26 00 Fabricated Rooms

13 27 00 Vaults
13 27 16 Modular Fire Vaults
13 27 53 Security Vaults
    13 27 53.13 Modular Concrete Security Vaults
    13 27 53.1 Modular Metal-Clad Laminated Security Vaults

13 28 00 Athletic and Recreational Special Construction
13 28 13 Indoor Soccer Boards
13 28 16 Safety Netting
13 28 19 Arena Football Boards
13 28 26 Floor Sockets
13 28 33 Athletic and Recreational Court Walls
13 28 66 Demountable Athletic Surfaces

13 30 00 SPECIAL STRUCTURES
13 31 00 Fabric Structures
13 31 13 Air-Supported Fabric Structures
    13 31 13.13 Single-Walled Air-Supported Structures
    13 31 13.16 Multiple-Walled Air-Supported Structures
13 31 23 Tensioned Fabric Structures
13 31 33 Framed Fabric Structures

13 32 00 Space Frames
13 32 13 Metal Space Frames
13 32 23 Wood Space Frames

13 33 00 Geodesic Structures
13 33 13 Geodesic Domes

13 34 00 Fabricated Engineered Structures
13 34 13 Glazed Structures
13 34 13.13 Greenhouses
13 34 13.16 Solariums
13 34 13.19 Swimming Pool Enclosures
13 34 13.23 Sunrooms
13 34 13.26 Conservatories
13 34 16 Grandstands and Bleachers
   13 34 16.13 Grandstands
   13 34 16.53 Bleachers
13 34 19 Metal Building Systems
   13 34 23 Fabricated Structures
      13 34 23.13 Portable and Mobile Buildings
      13 34 23.16 Fabricated Control Booths
      13 34 23.19 Fabricated Dome Structures
      13 34 23.23 Fabricated Substation Control Rooms
13 34 56 Observatories

13 36 00 Towers
13 36 13 Metal Towers
   13 36 13.13 Steel Towers
13 36 23 Wood Towers

13 40 00 INTEGRATED CONSTRUCTION
13 42 00 Building Modules
   13 42 25 Hospitality Unit Modules
   13 42 33 Apartment Unit Modules
   13 42 43 Dormitory Unit Modules
   13 42 63 Detention Cell Modules
      13 42 63.13 Precast Concrete Detention Cell Modules
      13 42 63.16 Steel Detention Cell Modules

13 44 00 Modular Mezzanines
13 48 00 Sound, Vibration, and Seismic Control
   13 48 13 Manufactured Sound and Vibration Control Components
   13 48 23 Fabricated Sound and Vibration Control Assemblies
   13 48 53 Manufactured Seismic Control Components
   13 48 63 Fabricated Seismic Control Assemblies

13 49 00 Radiation Protection
   13 49 13 Lead Sheet
   13 49 16 Lead Bricks
   13 49 19 Lead-Lined Materials
      13 49 19.13 Lead Lined Lath
   13 49 23 Modular Shielding Partitions

13 50 00 SPECIAL INSTRUMENTATION

13 51 00 Stress Instrumentation
13 52 00 Seismic Instrumentation

13 53 00 Meteorological Instrumentation
13 53 13 Solar Instrumentation
13 53 23 Wind Instrumentation