SECTION 26.41.13
LIGHTNING PROTECTION

PART 1 - GENERAL

1.01 DESCRIPTION OF WORK
A. The extent of the lightning protection work shall be as required by this section.
B. Provide a complete master labeled lightning protection system for the Skybox building including but not limited to: air terminals, lightning conductors, and ground rods. Upon completion, deliver the U.L. Master Label Certificate to the owner.
C. Any material and/or equipment necessary for the proper operation of the system not specified or described herein shall be deemed part of this specification.

1.02 QUALITY ASSURANCE
A. Minimum Standards:
   1. 2008 National Electric Code
   2. NFPA 780 - Lightning Protection Code
B. Manufacturers:
   1. Firms regularly engaged in the manufacture of lightning protection equipment, of types and sizes required whose products are in satisfactory use in similar service, such as Lightning Protection Systems of Virginia, LLC, Richmond, VA 804-230-9169, Capital Lightning Protection Company, Inc., Raleigh, N. C., 1-800-852-9590, or Maxwell Lightning Protection Company, Dayton, OH 1-800-872-1657, Robbins Lightning Inc, Maryville, MO 1-660-582-3156.
C. Submittals
   1. At time of shop drawings, submit dimensioned drawings for installation of lightning protection system for this building. Show conductor routing and accessories layout including ground rods, air terminals, splicers, fasteners, and connections.

PART 2 - PRODUCTS

2.01 COMPONENTS
A. Provide lightning protection system components of the types, styles, which comply with manufacturers standard materials, design and construction. All conductors and air terminals shall be U.L. LISTED MATERIALS. All down conductors shall be U.L. LISTED MATERIALS. ALL MATERIALS SHALL BE SIZED AS PER U.L. 96.

PART 3 - EXECUTION

3.01 COORDINATION
A. Location of all devices and equipment shall be coordinated with the Architectural and Mechanical drawings prior to submittal of shop drawings.

3.02 INSTALLATION
A. The lightning protection system shall be installed by a specialty subcontractor whose primary business is the installation of lightning protection systems. This subcontractor should have experience in installing similar systems.
B. The lightning protection system shall be bonded to the building ground ring at required intervals. Provide a building ground ring consisting of a #4/0 bare copper loop and 10’ by 5/8" diameter ground driven rods at 50’ intervals. Ground ring shall be 3’ outside the exterior walls, installed 24” deep and bonded to the electrical service grounds. All connections shall be exothermic.