

PART 1 GENERAL

- 1.01 At a minimum, provide a 4/0 ground ring with four ¾ inch X 10 foot copper-coated ground rods for each transformer pad. Connect both the primary ground wire and the secondary neutral to this ground ring. Design and install per National Electrical Code (NEC) requirements.
- 1.02 Provide insulated ground conductor in all branch and feeder raceways.
- 1.03 Provide grounding system for communications systems.
- 1.04 Provide ground bus in all panels.
- 1.05 Provide ground system(s) for roof mounted equipment, such as antennas, communication equipment, and/or HVAC equipment.
- 1.06 Provide Lightning Protection system as required by Facilities Services.

PART 2 PRODUCTS

- 2.01 Bonding bushings (with jumpers), ground clamps, lugs, connectors and other such hardware: Acceptable manufacturers: O.Z., T & B, or other manufacturer identified by the consultant. Provide at both ends of feeder raceways.
- 2.02 Bonding bushings shall be of the threaded type.
- 2.03 No split bolt connectors allowed.

PART 3 EXECUTION

- 3.01 Terminate each equipment-grounding conductor on a separate terminal. Multiple conductors under a single lug are not permitted.
- 3.02 Telecommunications: Refer to telecommunications division(s).
- 3.03 Branch circuit equipment ground conductor shall be bonded to raceway or junction boxes at point of utilization. Intent is to bond to not only the utilization equipment but the raceway/junction box system to ensure electrical continuity of raceway system.
- 3.04 Raceways with feeders and branch circuits 60A or larger shall use grounding bushings at each end of raceway, including intermediate junction or pull box. Equipment grounding conductor shall be bonded to grounding bushing.

END OF SECTION