



# Division 264113

# Lightning Protection System

## DESIGN GUIDE

## 1 General

### 1.1 Introduction

- A. This section applies to the following:
  - 1. Lightning Protection Systems for Structures
- B. CWU does not require lightning protection systems for all structures. The project design team shall perform a lightning risk assessment per NFPA and submit results to the CPPM and ELSM for review and design direction.
- C. CWU prefers lightning protection systems that use a controlled leader trigger system (CLT).

## 2 Materials

### 2.1 Lighting Protection System

- A. Manufacturers: ERICO Dynasphere Enhanced Air Terminal or approved equal.
- B. Down conductors shall be copper.
- C. Grounding and bonding materials shall be copper.



## 3 Execution

### 3.1 Installation

- A. Install lightning protection in accordance with the manufacturers design and installation instructions.
- B. Test grounding system to ensure continuity prior to backfilling or paving. Measured resistance to earth shall not exceed the lightning protection manufacturer's recommendations.

## 4 Appendix

### 4.1 Reserved for future.