**STEEL CCTV POLE**

- **Dome Type CCTV Camera**
- Bond #3 AWG Tin-Plated Bare Solid Copper Wire To Camera Support Base As Required.
- Bond #6 AWG Tin-Plated Bare Solid Copper Wire To Camera Support Base As Required.
- STEEL CCTV POLE

**CONCRETE CCTV POLE**

- **Dome Type CCTV Camera**
- Bond #3 AWG Tin-Plated Bare Solid Copper Ground Wire To The Air Terminal.
- Bond #6 AWG Tin-Plated Bare Solid Copper Ground Wire To The Air Terminal.
- CONCRETE CCTV POLE

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**GROUNDING AND LIGHTNING PROTECTION**

- 8' Diameter By 20' Long Copper-Clad Steel Ground Rods Driven Into Undisturbed Earth
- 18" Min.
- 12" Min.
- 36" Max.
- 30" Max.

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**requirements**

- Exothermic Weld
- Conduit for Grounding Conductors
- Ground Rod A Primary Ground Rod Assembly
- (See Inset A)

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**Design Standards**

- 2016
- 1 of 4
AIR TERMINAL PLACEMENT
(Lowering Device Pole)

1/2" ETP Alloy 110 Copper Air Terminal (Class II)
Surface Base Of 8 Square-Inch Minimum Contact Area
Per NFPA 780-4.16.3

#2 AWG Tin-Plated Bare Solid Copper Ground Wire. Bond To Air Terminals

2' Min

Guardrail
(if shown in Plans)

AIR TERMINAL PLACEMENT
(Span DMS)

#2 AWG Tin-Plated Bare Solid Copper Ground Wire. Bond To Air Terminal

2' Min

Guardrail
(if shown in Plans)

AIR TERMINAL PLACEMENT
(Cantilever DMS)
**Ground Rod Array Placement**

(Typical)

- Ground Rod C
- Primary Ground Rod A
- Ground Rod B
- Ground Rod D

20' RODS, 40' SPACING

Ground Rod C

Ground Rod B

Ground Rod D

Foundation: CCTV or DMS Pole

**Inset "A"**

- #2 AWG Tin-Plated Bare Solid Copper Wire To Ground
- #2 AWG Tin-Plated Bare Solid Copper Wire To Ground:
  - Rods B, C, and D
  - Required Connections May Be Combined

- #2 AWG Tin-Plated Bare Solid Copper Wire Continuous To Air Terminal

**Grounding and Lightning Protection**
GROUNDING AND LIGHTNING PROTECTION

COMMUNICATION TOWER

GROUND ROD ARRAY PLACEMENT
(Communication Tower)
20' RODS, 40' SPACING

GROUND ROD ARRAY PROFILE
(Communication Tower)

"Sphere Of Influence With Ground Ring"

GROUND ROD ARRAY PROFILE
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COMMUNICATION TOWER

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