NOTES:

1. Additional ground rod electrodes shall be added to grounding conductor as required until resistance to ground is 5 ohms or less for device locations and 25 ohms or less of power service and pull box. If additional ground rod electrodes are required in order to achieve required resistance they shall radiate out from existing ground electrodes, shall be connected with copper conductor as specified in the plans, and shall be 30' from connected ground rod. All communication equipment grounding sites shall be tested for resistance to ground using the three-pointfall-of-potential test per ANSI/IEEE Std. S1. See grounding specifications.

2. Ground rod electrodes shall not be routed through foundations.

3. Fences and other metallic structures with paths to ground shall be connected to the grounding conductor if they are located with 10' of the grounding electrode system. See Standard Construction Drawing (SCD) HL-50.11.

4. Ground rod electrodes shall be buried to a minimum depth of 36" below finished grade, where possible.

5. CCTV camera and associated pull box shall be connected to the CMS site ground ring only when either the CMS Truss or the CMS control cabinet is located closer to the base of the CCTV pole than the length of the CMS Truss.

6. All equipment grounds shall be properly connected to a chassis oil point and other connections, including galvanization, shall be removed prior to termination of a ground. After the termination a non-oxidizing coating shall be painted over the exposed metal surfaces.

7. Grounding electrode system connections to fencing shall be made using heavy duty threaded listed pipe clamps designed for grounding and stainless steel hardware. See SCD HL-50.11.

8. All grounding diagrams are schematic only.

9. All metallic members of the CMS Truss and the CMS sign within 6' of each other shall be bonded together. Welds shall be considered as acceptable bonding method. BOLT connections shall NOT be considered an acceptable bonding method.

10. The quantity of grounding electrode conductors connected to a ground rod electrode shall be limited to four.

11. Whenever possible, ground rod electrodes shall be installed no closer than 6.6' from a foundation.

12. The quantity of grounding electrode conductors connected to a ground rod electrode shall be limited to four.

13. Whenever possible, ground rod electrodes shall be installed no closer than 6.6' from a foundation.

14. Grounding electrode conductors shall be installed in one continuous length. Splicing shall be permitted only by irreversible compression-type connectors listed as grounding and bonding equipment or by exothermic welding process.

15. A ground rod shall be installed at each electric pull box installed on this project and connected to the pull box location. The ground rod shall also be tied into the distribution cable used as the ground wire to service the camera cabinet, in order to provide a complete grounding system.