7 DRAWING DELIVERY

7.1 Quality Assurance

Before consultants submit DWGs to the Airport and before staff share DWGs with other staff members or consultants, they are responsible for conducting Quality Assurance (QA) on those drawings. QA should be conducted by an individual who is familiar with the content and the requirements of this document, but who did not directly work on the data in the drawing being checked. Quality assurance shall check the drawing(s) against all applicable requirements in this document, including but not limited to:

- Objects have the correct geometry, adhere to topology rules, and are on correct layers
- Proper title block is used with metadata fields filled in correctly and completely
- Proper cover sheet is used with metadata fields filled in correctly and completely
- Sheets are numbered correctly and provided in the correct order
- Filenames are correct

QA should also check to ensure that the data in the drawing is comprehensive, accurate, and correct. It may not be feasible to check all objects on drawings. At a minimum a statistically valid sample of objects to establish a 95 percent confidence level in the data shall be checked. Objects shall be sampled randomly but their location shall be distributed across the extent of the drawing's contents. Objects on numerous layers shall be selected. All properties of the selected objects (i.e., geometry type, topology, layer, symbology, and object data, if present) shall be checked. If any property is not correctly recorded, then the object shall be considered a failure. All failures shall be corrected. If a pattern of failures (e.g., on a specific layer or in a specific area) is evident or a large number of failures are found, then all content in the drawing shall be thoroughly checked and corrected before QA recommences.