



Design and Construction Surveying/GIS Guidelines

Planning & Design Phase

A site survey of surface and sub-surface features tied to the North Carolina State Plane Coordinate System NAD 83 survey feet with the vertical datum of NAVD 88 will be submitted no more than one week after the site survey has been delivered to the project design firm. The site survey shall be delivered in a DWG electronic format. Layer definitions will adhere to National CAD standards for layers collected in the survey. The electronic documents will be delivered to Facilities Services as directed.

Refer to the [Surface](#) and [Subsurface](#) location standards.

Bid Phase

Overall site plan drawings of surface and sub-surface features, rendered in North Carolina State Plane Coordinate System NAD 83 survey feet with the vertical datum of NAVD 88, will be submitted no more than two weeks after awarding the project to a contractor. If appropriate the demo plan is to be included. The site plan shall be delivered in a DWG electronic format. Layer definitions will adhere to National CAD standards.

Separate from the site plan drawing, submit a drawing file that shows and contains only newly designed features.

The electronic documents will be delivered to Facilities Planning and Construction as directed.

Refer to the [Surface](#) and [Subsurface](#) location standards.

During Construction

The Construction firm in charge will provide a surveyor on site to locate all newly installed underground utilities to be delivered with the final construction documentation. All locations performed will be tied to the North Carolina State Plane Coordinate System NAD 83 survey feet with the vertical datum of NAVD 88.

Refer to the [Surface](#) and [Subsurface](#) location standards.

Final Construction Document

A final site survey of newly constructed surface and sub-surface features to include but not limited to hardscape and landscape tied to the North Carolina State Plane Coordinate System NAD 83 survey feet with the vertical datum of NAVD 88 will be submitted before the project is finalized. Drawing is to include a survey report as outlined in www.maps.unc.edu. The survey shall include where newly constructed features tie into existing features. The site survey shall be delivered in a DWG electronic format. Layer definitions will adhere to National CAD standards.

The electronic documents will be delivered to Facilities Planning and Construction as directed.

Separate from the final site plan drawing, submit a drawing file that shows and contains only newly constructed and installed features.

Refer to the [Surface](#) and [Subsurface](#) location standards.

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