
Guideline – CAD File Submittal

Goal:

Standardize the information submitted by consulting and in-house engineers for more efficient processing into the City of Tuscaloosa GIS.

General:

- CAD Files should be submitted as DWG (AutoCAD 2017 or prior).
- Items should be separated onto different layers / levels with logical names to allow simple interpretation of infrastructure components.
- Labels should be clearly noted.
- CAD files should be in Alabama State Plane –West Zone Coordinate system.
- *CAD files should utilize NAVD88 vertical datum.

**Note: Exceptions may be allowed for projects that do not include Sanitary Sewer or Storm Sewer to be accepted by the City of Tuscaloosa for maintenance.*

At a minimum, the following shall be infrastructure items to be included in the CAD files. OCE may ask for additional items.

Sanitary Sewer

- Main Line (label size and material)
- Manholes (top and invert elevations)
- Force Main Line (label size and material)
- Low Pressure Force Mains (label size and material)
- Valves [label type of valve Combination Air Valve (CAV), Air Vacuum Valve (AVV), Air Release Valve (ARV)]
- Lift Stations
- Lateral Locations (label size and material)
- Easements

Sidewalks

- Sidewalks to be maintained by the City of Tuscaloosa.
- Accessible Ramps

Water Distribution System

- Water Main (label size and material)
- Water Meters (label size)
- Water Service Lines (label size and material)
- Backflow Preventer (not required for meter set assemblies)
- Fire Hydrants
- Valves (label size and type)
- Fittings (description)
- Easements

Drainage

- Storm Pipe (label size and material)
- Storm Structures (label type, top elevation, and invert elevations)
- Pipe End Treatments (label type and size)
- Detention Ponds (Boundary)
- Permanent Water Quality BMPs (Description)
- Easements



CITY ENGINEER

2201 University Blvd. • Tuscaloosa, AL 35401 • Phone 205-248-5380 • Fax 205-349-0341 • City Hall 205-248-5311

TUSCALOOSA.COM

 @TuscaloosaCity