

INTRODUCTION

In order for projects to be shared easily it is important that the method of drafting and structure of the drawing set be standardized so that it can easily be brought into GIS; use the following as a guideline for standardization. These standards will be applicable to the majority of projects; however, there may be instances where a variance from these standards will provide more flexibility. Check with SACWSD's GIS Coordinator. Submitted CAD drawings shall meet requirements and specifications as detailed in SACWSD's [Design Standards and Specifications](#) as well as all requirements listed within the CAD/GIS Standards.

General Checklist

- Plans in compliance with SACWSD's [Design Standards and Specifications](#) & CAD/GIS Standards.
- Plans are projected in the appropriate Projection / Coordinate system
 - SACWSD uses the following projection / Coordinates
 - Colorado State Plane Central Zone US Foot, can also be called NAD1983 State Plane Colorado Central FIPS 0502 (US Feet)
 - Projected Coordinate System:
NAD_1983_StatePlane_Colorado_Central_FIPS_0502_Feet
 - Projection: Lambert Conformal Conic
 - False Easting: 300000.000316083
 - False Northing: 999999.999996
 - Central Meridian: 105.5000000
 - Standard Parallel: 38.45000000
 - Standard Parallel 2: 39.75000000
 - Latitude of Origin: 37.833333333333334
 - Linear Unit: Foot US
 - When you begin a drawing assigned the coordinate system from the beginning. In Civil 3D go to the Map Setup tab, then select Assign. In the search bar you can search using Colorado – The coordinate system we use is NAD 1983 State Plane Colorado Central FIPS 0502 (US Feet) the AutoCAD code is CO83-CF.
 - Contact the GIS Department if you would like projected parcel data to help align the project you are working on.
- Line work needs to be done as polylines not as there should not be any breaks in your lines with the exception of Tees, crosses, and Valves.
- Under the Tools Tab go to Drawing Cleanup and use this tool to verify that all shorts and overages are cleaned up as well as lines not attached to anything.
- Block References are not allowed. Different pipe types need to be on their own layer so the various layers can be turned off and on.
- Make sure to use your snapping tool when creating drawings.
- South Adams County Water and Sanitation District will accept an **AutoCAD® 2011 .DWG file**. The .DWG file shall be free from any intelligent (proxy).
- If the submittal was created using a program other than AutoCAD® or AutoCAD LT® then the submitting organization is responsible for converting the file to a plain (no proxy) **AutoCAD® 2011 .DWG file**.
- South Adams County Water and Sanitation District reserves the right to decline **any** submittal due to incompatibility issues.