

Stormwater Treatment Facility Drawing Requirements

Planning and Development Services Department

ES Policy #3-09

Digital copies of CAD drawings of Stormwater Treatment Facilities (STFs) are required for all construction projects that will have STF plans. These drawings are integrated into a city-wide GIS database for locations of said STFs.

Our intent is to receive the most simplified drawing possible that clearly delineates, through the use of closed polylines, those areas containing STFs that are being constructed within the scope of the project under review by the City of Overland Park.

The parcel boundary of the construction site in the CAD drawing is used to ensure proper alignment within the Johnson County parcel boundaries database, so the parcel boundary **MUST** be included in the drawing.

The CAD file shall be in DWG or DXF format.

NOTE: The associated Site Development or Building Permit will not be issued until the STF CAD file has been submitted, reviewed, and accepted by staff.

CAD FILE SETTINGS AND CONTENT

1. The CAD file shall be submitted as a single file. Supporting files shall not be referenced.
2. The maximum drawing information in the CAD file shall be STF boundaries, STF annotation, parcel boundary and section lines.
3. All associated STF boundary line work and annotation is to be in the Model Space/Base Layer. No line work or annotation shall be placed in the Paper Space/Sheet File.
4. The CAD files shall use the following Model Space settings and projection for proper alignment:
 - Drawing Units: Length: Type = Decimal
Precision = 0.0000
 - Angle: Type = Surveyor's Units
Precision = N 0d00'00" E
 - Insertion Scale: Feet
 - Data Projected: Projection: Kansas State Plane North (3926)
Horizontal Datum: North American Datum of 1983 (NAD83)

LAYERS

1. Provide separate layers for each discipline - property (parcel) boundaries, section lines, STF boundaries, and unique identifiers for each STF. STF boundaries shall not share any of the above disciplines.
2. Each STF shall have a separate and unique identifier, e.g. RG-1, BR-1, etc. If a facility has multiple or separate components, each component shall have a unique identifier, e.g. RG-1-a, RG-1-b, etc.
3. Text labeling shall be consistent and should not overlap any other layers.
4. Approved STF acronyms:

Bioretention Cell	= BR
Catch Basin Insert	= CBI
Extended Detention Wetland	= EDW
Extended Dry Detention	= EDD
Extended Wet Detention	= EWD
Hydrodynamic Separator	= HDS
Infiltration Basin	= IB
Infiltration Trench	= IT
Native Vegetation Area	= NVA
Native Vegetation Swale	= NVS
Natural Conveyance Swale	= NCS
Other System	= OS
Permeable Pavement	= PP
Proprietary System	= PS
Rain Garden	= RG
Sand Filter	= SF
Vegetated Filter Strip	= VFS

POLYLINES

1. Boundaries should all be closed single polyline features (e.g., include the outer edge of the facilities only). Remove all other information.
2. Polyline features should not be in blocks (i.e., blocks should be exploded).

SUBMITTAL

1. Provide a paper or PDF file of the exhibit of the STF locations. The exhibit shall show the STFs as a hatched or shaded filled area in the Stormwater Treatment Facility Maintenance Agreement.
2. Method 1: Deliver a paper copy of the drawing and a disk with the CAD file to Overland Park City Hall, Attention: "Review Engineer".
3. Method 2 (preferred): Email a PDF of the STF exhibit and the CAD file to the "Review Engineer".
4. Include the project name, address, permit number assigned by the city (BLD, SDP, PIP number), and design consultant contact information in your email or cover letter.

CONTACT INFORMATION

For questions regarding Stormwater Treatment Facilities CAD drawing requirements, please contact the Review Engineer at (913) 865-6223.