Impervious Surface Drawing Requirements
City of Overland Park, Kansas

Digital copies of CAD drawings of impervious surfaces are required for all non-residential construction projects that will change the amount of land area covered by buildings or paving. They are not required for remodels, tenant finishes, grading permits or underground utilities. These drawings are converted and integrated into a city-wide GIS database for calculating storm water utility fees. Our intent is to receive the most simplified drawing possible that clearly delineates, through the use of closed polylines, those areas of impervious surfaces that are being constructed within the scope of the project under review by the City of Overland Park. *The GIS Conversion Process:* The parcel boundary of the construction site in the CAD drawing is manually aligned to the Johnson County parcel boundaries database. CAD polylines are converted to GIS shape file format. Closed polylines are converted to polygons. Polygons of pervious areas are deleted. Polygons of impervious areas are coded (tagged) as buildings, pavement, or other. The polygons are used to calculate area of impervious surface per parcel.

PAGE SPACE AND CONTENT
- The drawing should be submitted as a *single DWG file* – the GIS software does not recognize externally referenced files.
- The drawing limits of the *model space should be close to the size of the project area* – there should not be any features in the DWG file that are far away from the project area or features associated with any other project not related to the current phase of construction work being reviewed by the City of Overland Park.

LAYERS
- There should be *separate layers for each of the following surface types* - building, pavement, sidewalks, miscellaneous (e.g., patios or storm sewer structures), and property (parcel) boundaries. Building additions may require less information (use contact information below for questions).
- The DWG file should contain boundaries of *impervious surface features only*. If other drawing information cannot easily be removed, an alternative is to send a list of the layer names to use for each surface feature.

POLYLINES
- Boundaries should all be *closed single polyline features* (e.g., the outer edge of buildings and curbs only).
- Polyline features should *not be in blocks* (i.e., blocks should be exploded).

OTHER
- A *paper or PDF copy* of the impervious surface plan should be submitted that shows impervious areas with a shaded or hatched fill.
- Include in your *email or cover letter* the Project Name, Address, PRS number (the project tracking number assigned by the city), and CAD technician contact information.

DELIVERY
- Method 1: Deliver a paper copy of the drawing and a disk with the DWG file on it to Overland Park City Hall, Attention Mark Steger.
- Method 2 (preferred): Email a PDF of the paper copy of the drawing and the DWG file to mark.steger@opkansas.org.

Contact information for questions regarding CAD drawing requirements:
Mark Steger
GIS Associate
913-895-6202 or mark.steger@opkansas.org

Legend

Impervious

- Building
- Pavement
- Miscellaneous
- Parcel