

# Digital Drawing Specifications for Final Plats Submitted within Sarpy County, Nebraska

## Overview

The Sarpy County GIS program has prepared a set of CAD standards for the digital submittal of subdivision plat drawings within the county. The GIS program will be working with developers and cities within the county to institute these standards. The purpose of defining these standards is to allow the county to import the plat data directly into their geographic information system (GIS). Adherence to the standards will allow for quicker updates of the county's GIS data files, saving tax dollars while improving service.

In general, a GIS is a geographic database whose graphic elements are directly tied to non-graphic tabular database records. The graphics and databases are so intrinsically tied that changing the graphics alters the database records, while altering the database may alter the graphic display. There are significant differences between the county's GIS and data stored in a CAD-generated drawing file. Certain data standards must be met to ensure that data prepared with a standard CAD package such as AutoCAD can be quickly and easily converted into the county's GIS data format.

Following is the 'reserved layer' list that specifies the type of data to be drawn on each of the reserved layers: name, line type, color, width, font and text size specifications for any layers to be used in the description and filing of a final plat within Sarpy County, Nebraska. In addition to the layering specifications, some general specifications apply, as shown below.

## General Specifications

- All submitted drawings will be submitted in either DWG or DXF formats.
- No other data will be drawn on the reserved layers except those specified.
- Unspecified data may be added to the drawing file placed non-reserved layer
- No symbology, block, or text may be drawn on a reserved layer except those line, block, and text elements specified below.
- Symbology attributes (i.e., Font, Height, Width, Color) are merely suggestions for a possible "best practice." These will not be checked for compliance. Sarpy County understands that each firm will have their own look & feel to a plat; these suggestions will provide guidance, the most important aspect for Sarpy County is the implementation & adherence to reserved layers.
- Closure is critical for converting the CAD data into a GIS format; includes subdivision, lot, block, & other boundaries.
- All text elements will be inserted as 'center' unless otherwise specified. In addition, each text element should be located near the center of the feature that it represents; for example, lot number should be located near the center of the lot.

## Reserved Layers for Cadastral Information

### Subdivision Boundary

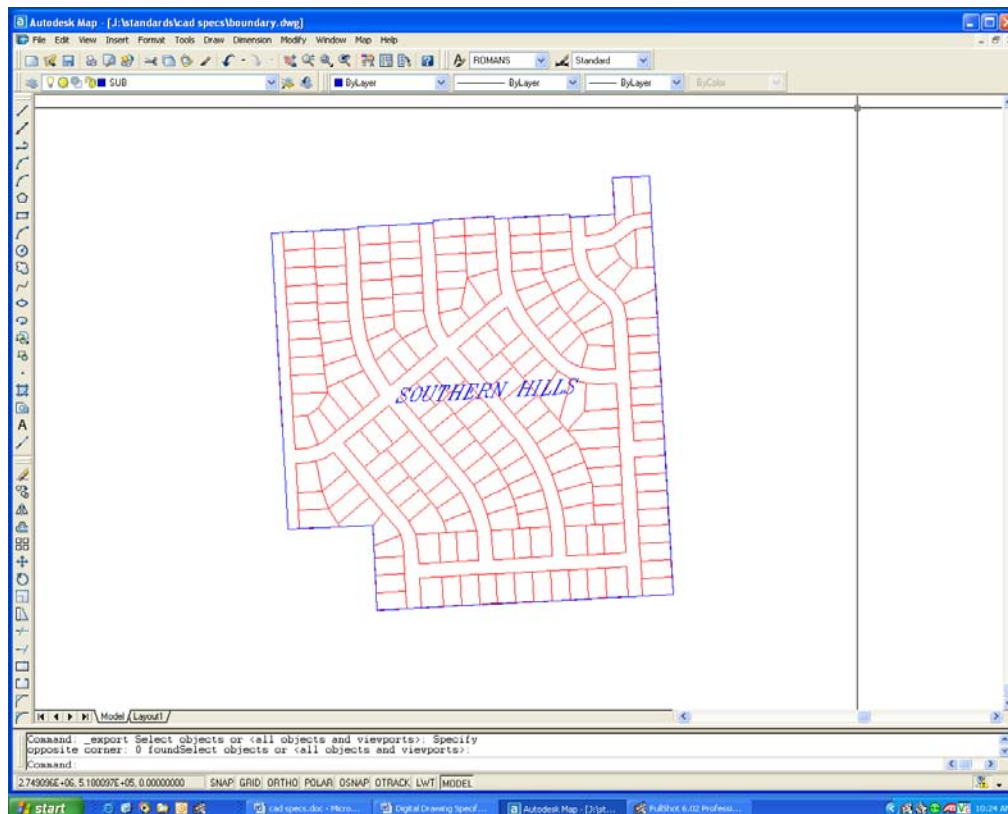
Layer Name: GSubdivision  
Geometry: Line or Pline  
Line Type: Continuous  
Width: 0.0  
Color: 5 (Blue)

This line forms the legal limits or the outer boundary of the entire subdivision plat. It forms a closed polygon. This layer may be composed of many lines, but it should result in one and only one closed polygon for each subdivision.

### Subdivision Name

Layer Name: GSubdivisionName  
Geometry: Text String  
Text Height: Unspecified  
Color: 5 (Blue)

This is a text string with an insertion point located anywhere within the outer boundary of the subdivision (or line work on layer 1).



## Block Boundary

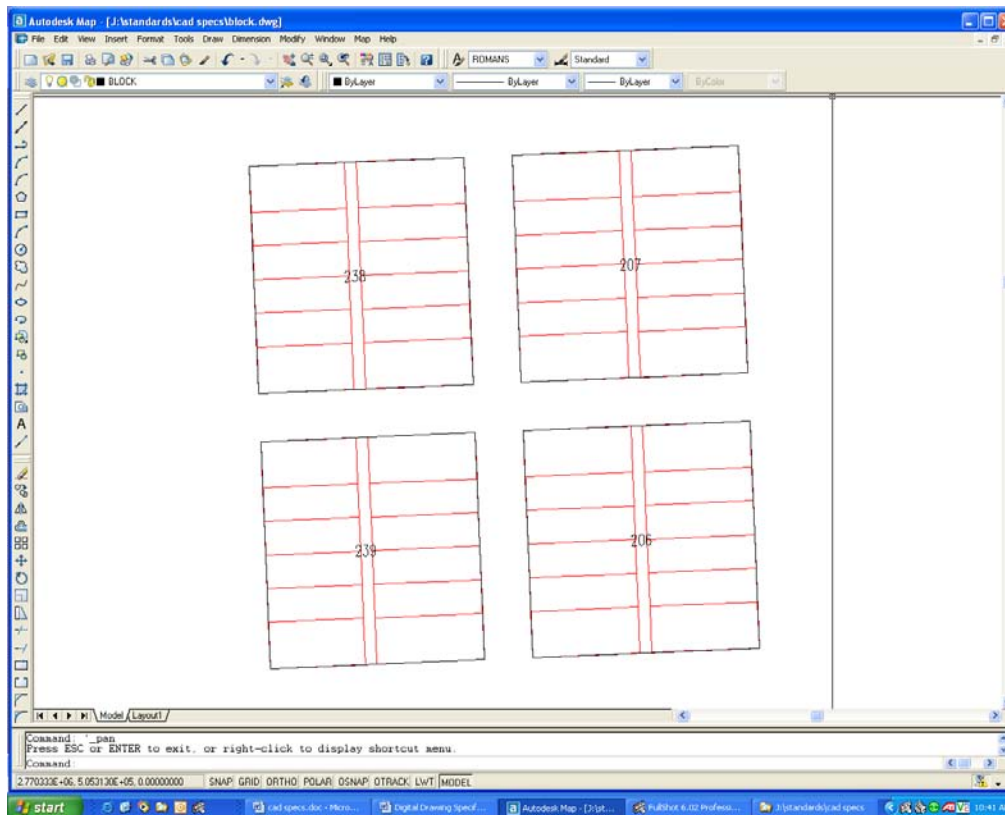
Layer Name: GBlock  
Geometry: Line or Pline  
Line Type: Continuous  
Width: 0.0  
Color: 7 (White)

This line or set of lines creates the outer boundary of each block within a subdivision. Block boundaries are generally formed by a combination of right-of-way lines, lot lines and the subdivision boundary. Block boundary lines will only be drawn if block numbering will be used as a part of the subdivision-block-lot legal description. (That is, the lots are described as lot 17 of block 2). If block numbering will not be used within the subdivision (and there are no common areas that will require a block designation), this layer is to be left blank.

## Block Number

Layer Name: GBlockNum  
Geometry: Text String  
Text Height: Unspecified  
Color: 7 (White)

The block number should appear once for every block boundary polygon. If there are no blocks within the subdivision, this layer should be left blank.



## Lot Boundary

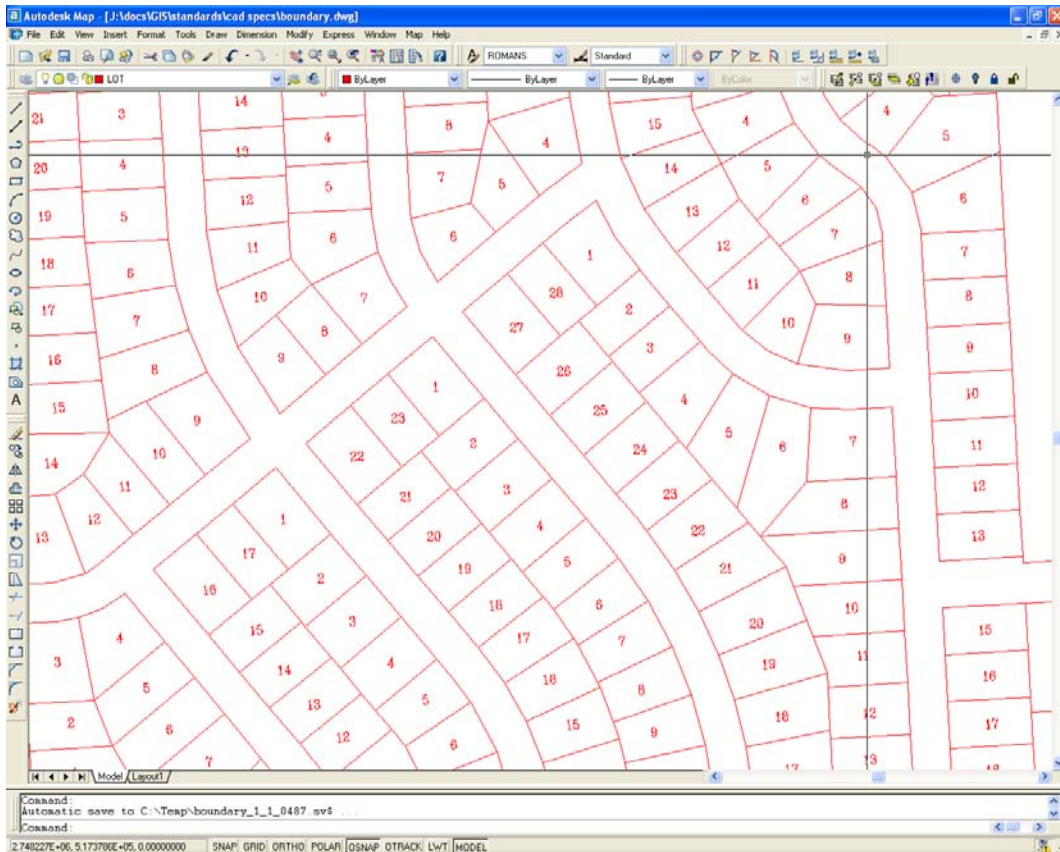
Layer Name: GLot  
Geometry: Line or Pline  
Line Type: Continuous  
Width: 0.0  
Color: 1 (Red)

Lines to be entered on this layer are those that separate one lot from an adjacent lot within the same subdivision, but are not a block boundary or a right-of-way line. These internal lot boundaries may be thought of as side-lot-lines and back-lot-lines.

## Lot Number

Layer Name: GLotNum  
Geometry: Text String  
Text Height: Unspecified  
Color: 1 (Red)

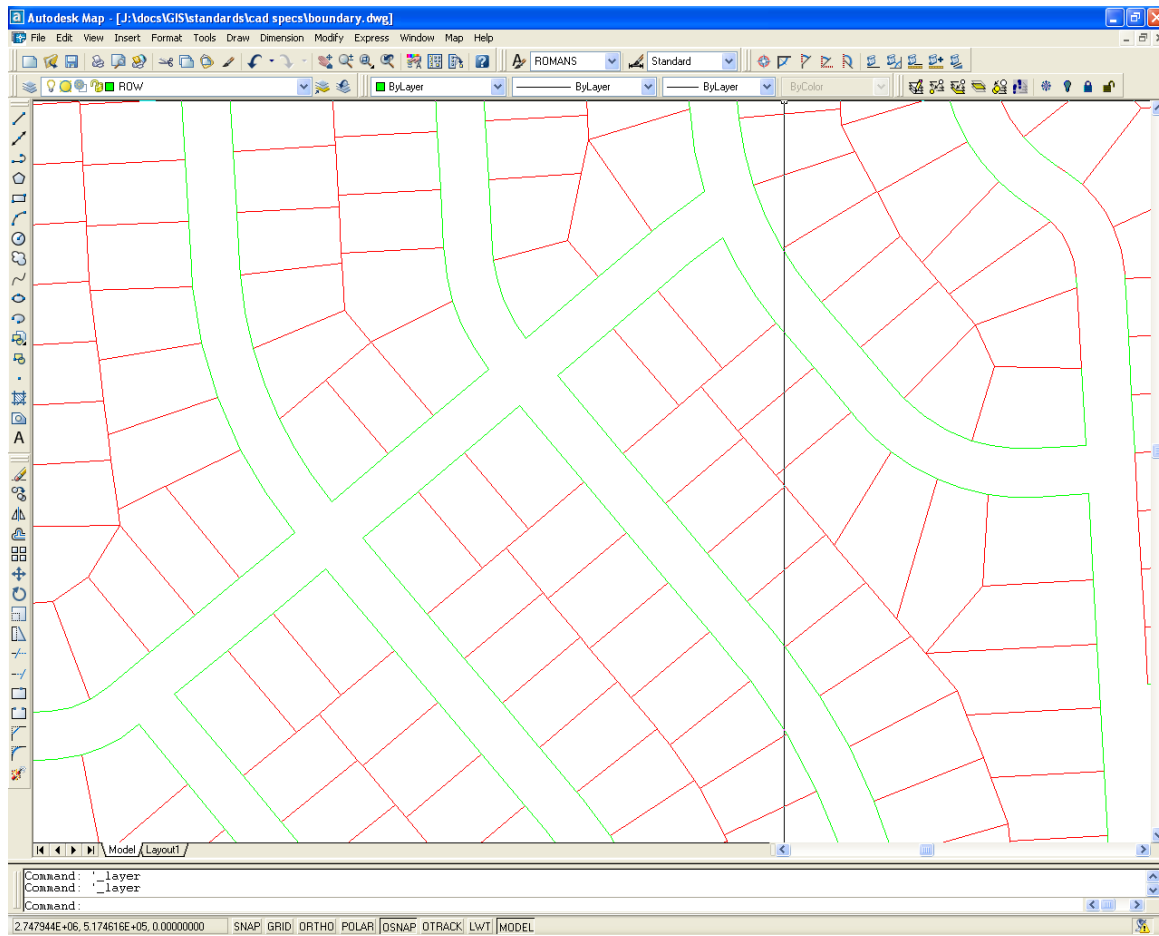
The lot number should appear once for every lot within the subdivision. The lot number should be a text string with an insertion point within the outer boundary of the lot it identifies.



## ROW Line

Layer Name: GROW  
Geometry: Line or Pline  
Line Type: Continuous  
Width: 0.0  
Color: 3 (Green)

A line used to divide the privately-held property from land to be publicly held, used, and maintained as public right-of-way. The endpoints of any right-of-way segment should be snapped to the end points of the following: lot boundary segments; other right-of-way line endpoints; or the subdivision lot boundary.



## Street Centerlines

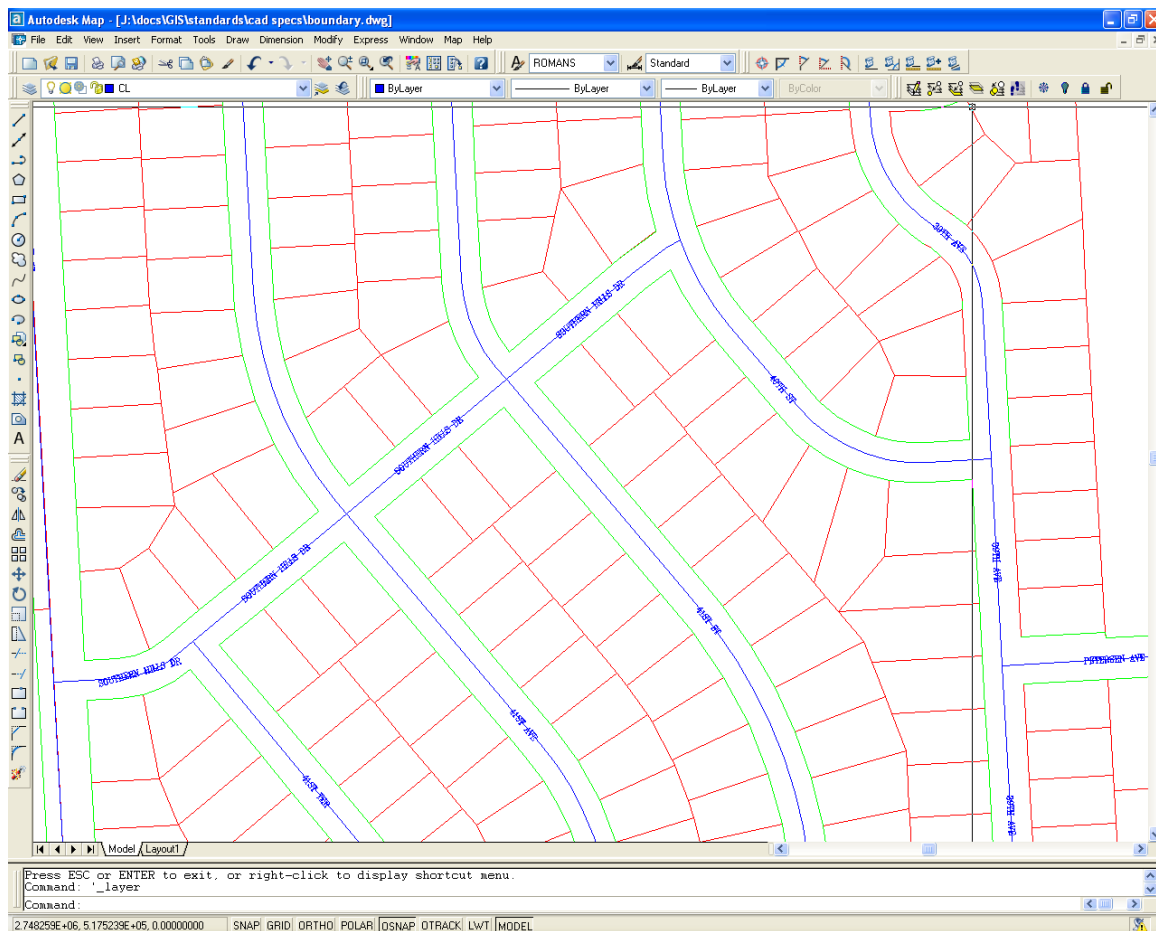
Layer Name: GStreet  
Geometry: Line or Pline  
Line Type: Continuous  
Width: 0.0  
Color: 5 (Blue)

This line delineates the centerline of the street. All centerlines will be continuous line segment between intersections. A break point will be placed if a street name changes between intersections.

## Street Name

Layer Name: GStreetName  
Geometry: Text String  
Text Height: Unspecified  
Color: 5 (Blue)

Text is to be centered within the right-of-way.



## Survey Control Points

Layer Name: GSurveyP  
Geometry: Point  
Color: 1 (Red)

Any surveyed, centimeter-accurate GPS control points should be placed on this layer. NAD83 will be used for the horizontal datum and NAVD88 for the vertical datum.

## Survey Control Points Text

Layer Name: GSurveyText  
Geometry: Text String  
Text Height: Unspecified  
Color: 1 (Red)

## Subdivision Dimension

Layer Name: GSubdivisionDim  
Geometry: Text String  
Text Height: Unspecified  
Color: 7 (White)

Any descriptive text that describes the dimension of a line element around the plat perimeter (layer 1).

