CITY OF ROSEVILLE CALIFORNIA

Specifications for the

Digital Submission of UTILITY COMPOSITES

June 2006

Use of Document

The use of digital utility systems mapping has become prevalent in many local government organizations. Utility system maps are used in conjunction with computerized facilities software management packages to assist in the maintenance of the utility. To facilitate the automation of each utility to an automated mapping/facilities management arena, many local agencies have mandated the submittal of electronic utility composites.

Digital submissions of water, wastewater, recycled water and stormwater composites are required by the City of Roseville for all public improvement plans per the City of Roseville Improvement Standards. This document defines the specification for the digital submission of electronic utility composite submittals to the City of Roseville. It will assist private design professionals during their production of electronic utility plan sets in a CAD environment with the intent to enable the hard copy and digital submissions to be produced from the same data with little to no modification.

In order to enhance the usefulness of the digital data, some structure is required in the layering of the graphics, i.e. there is no database linking requirements. Data submitted in accordance with this specification should be consistent with that obtained from utility composite layouts within a set of Engineering Improvement Plans.

Digital Submission Data Format

Digital submissions to the city shall include the utility systems and base layers as listed below. All composites shall be in AutoCAD Release 2004 or as otherwise approved by the city. The segregation of layering shall allow for each component to be individually isolated in its entirety. All layer names shall be easily recognizable as the data they represent. Proposed and existing entities shall be on separate layers. Each of the following layers shall be contained within one drawing. The submittal with its required layers shall not maintain any external references, attachments, or third party layers.

- **Base Components** (See Example)

  Street ROW
  Parcels lines or lot lines
  Street ROW centerlines
  Street Names
  Lot Numbers

- **Wastewater Components** (See Example)

  Wastewater mains
  Wastewater manholes
  Wastewater Laterals (services)
  Wastewater flow/main size indicators
  Cleanouts or flushing branches
  Wastewater force mains
  Other Components:
  Lift stations
  ARV's Blow-offs, CP Test Stations
  Test describing wastewater components

- **Water Components** (See Example)

  Water mains
  Water valves
  Fire hydrants
  Blow offs
  Reducers
  Main size indicators
  Water services
  Meter boxs
  Backflow devices
  Air release valves
  Corrosion equipment
  Water main inspection plate
  Text describing water components

- **Recycled Water Components** (Not on Example)

  Recycled water mains
  Recycled water valves
  Blow offs
  Reducers
  Main size indicators
  Recycled water services
  Meter boxs
  Air release valves
  Corrosion equipment
  Recycled water main inspection plates
  Text describing recycled water components

- **Stormwater Components** (See Example)

  Stormwater mains
  Stormwater Laterals
  Stormwater manholes
  Stormwater outlets
  Stormwater inlets
  Stormwater flow/main size indicators
  Misc. stormwater infrastructure such as rip-rap, swale and sand oil sand separators
  Text describing stormwater components
  Drainage Shed Boundaries

Media Requirements

Each drawing file shall be submitted on a CD ROM disk. File compression may be used if the file is self-extracting and does not require the use of special software. The project name may be abbreviated if the complete name is clearly indicated on the submitted media.

The following are acceptable examples of file names that include both the name and project number:

LONGMEADOW_VIL1_050060.DWG
or abbreviated
LM_VIL1_050060.DWG

3711 DOUGLAS BLVD_050272.DWG
or abbreviated
3711 DGLS BL_050272

No additional information will exist on the submitting media aside from the data being specifically transmitted to the city. All media will be clearly marked with the project name (normally how it appears on the improvement plan title sheet) and the citywide job number assigned to the project.

Submittals shall be made to:

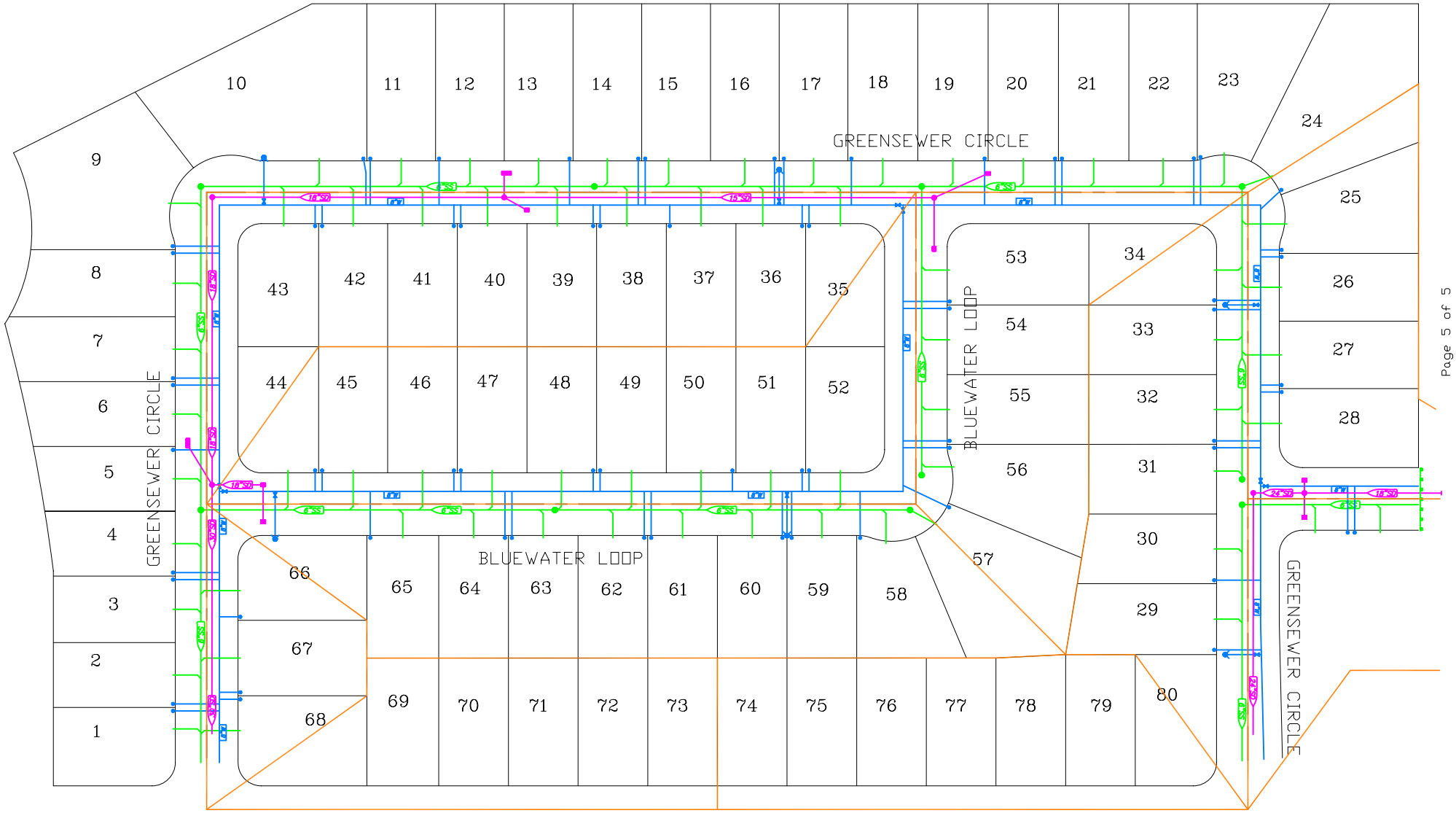
City of Roseville
Public Works Engineering Department
Development Section
311 Vernon Street
Roseville, CA 95678

AND

City of Roseville
Environmental Utilities Department
Data Management Section
2005 Hilltop Circle
Roseville, CA 95747

UTILITY COMPOSITE

(EXAMPLE)



Revised: 05-15-2006 RVN