

## CHAPTER 4

### PLAN PREPARATION

#### 4.1 SHEET SIZE

Overall dimensions 24" x 36".

#### 4.2 MARGINS

Two inches on left, all others: 1/2 inch.

#### 4.3 SIGNATURE BLOCK

All sheets of the plans shall have an approved signature block located in the lower right-hand corner. The approved blocks shall be signed before any construction occurs. Any revisions to the plans after initial approval shall be shown as revisions and shall be approved by the District Engineer.

#### 4.4 COVER SHEET

This shall be the first sheet in the set and shall contain:

A. An index map with an overall plan at a scale of 1 inch = 300 feet, showing general layout of sewer lines, manhole locations, flow direction arrows, named street, tract boundaries, lot boundaries and numbers, a sheet index, California coordinates, and other pertinent information.

B. A vicinity map, with a scale of 1 inch = 1000 feet, showing tract boundary, streets, adjacent tracts, major streets outside of tract boundaries and the location of the bench mark.

C. All benchmarks used in the project shall be graphically shown on this sheet and the elevations, descriptions, locations, etc. shall be spelled out. All elevations used in the preparation of standard plans shall be based on California NAD 88 datum. All horizontal datum shall be based on California NAD 83 datum.

D. The District's General Notes shall be shown on the key map sheet and need not be shown on the other sheets.

E. Sewer service certification is required and shall be worded as follows:

## CERTIFICATION

I hereby certify that the sewer systems as shown on drawing number \_\_\_\_\_ sheet \_\_\_\_\_ through \_\_\_\_\_ has been designed to adequately service each and every lot or facility shown on said plans.

\_\_\_\_\_  
Registered Civil Engineer          RCE No.          Date

If the project does not involve specific lots, then substitute the words "...designed to adequately provide for the development that the system is intended to serve."

### 4.5 PLAN OF SEWER SYSTEM

Plan drawings shall show location of sanitary sewer mains, building sewers and other structures in relation to survey lines and stations. Provide all data for horizontal deflections or curves and indicate limits of any easements. Any known pad locations that are adjacent to an easement shall be shown as well as fences, walls, trees, etc. that are within the easement. Show and label on the plans the size and ownership of all existing and/or proposed underground utilities that cross or run parallel to the sewer. Manholes and other structures shall be numbered with District provided identifiers. NAD 83 based coordinates shall be shown for all sewer structures..

### 4.6 PROFILE OF SEWER SYSTEM

Profiles shall show the grade, include any vertical curve data, size and type of pipe, and the distances between manholes and other structures. Show depth and elevation of building sewers at main and edge of property line or at edge of easement. The type of bedding or encasement required to carry loads on the pipe shall also be shown. For each section of sewer, the profile shall show invert elevations to 0.01 foot. Manhole rim elevations are also required.

### 4.7 UNDERGROUND UTILITIES

The sewer plans (plan and profile) shall include all other underground utilities. The engineer is responsible to obtain the "As Built" drawings from the utility companies. When necessary, the engineer shall verify the location and depth of these underground utilities by vacuum excavation method or other approved methods that will not damage the utility.

All pipe lines, (water, gas, telephone, power, storm drains, television and oil lines, etc.) two inches (2") or more in diameter, that cross the sewer shall be shown on the profile. The grade of major lines parallel within five (5) feet of the sewer shall be shown as dashed on the profile.

4.8 GRAPHIC SCALE AND NORTH ARROW

All plan and profile sheets shall contain:

A. A graphic scale, horizontal as well as vertical, illustrated that a true representation is produced when the plans are reduced in size, and they shall be as follows:

horizontal	1" = 40'
vertical	1" = 4'

Vertical scale of 1" = 8' or larger will only be accepted for lines in steep areas where the 1" = 4' scale cannot properly be used.

B. A north arrow oriented toward the top or to the right only.

4.9 PLAN CHECK LIST

The "SANITARY SEWER CONSTRUCTION PLAN CHECK SHEET" as shown in Appendix C will serve as a guide for the approval of the sewer plans. It is not intended to be a complete list of all requirements.

4.10 DEDICATION OF FACILITIES TO DISTRICT

The developer shall be required to execute the District's "Transfer of Title" for the dedication of facilities to the District as a condition of approval of the project plans.

4.11. GENERAL NOTES

The general notes in Appendix D shall be included on the cover sheet as applicable. They are subject to change to suit the needs of the District.

4.12 STANDARD DRAWINGS

The sewer plans shall include the District's "Standard Drawings" in Appendix E. They are subject to change to suit the needs of the District.

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