

PipeMate

Gravity Sewer/Stormwater Design and Draughting Software for Civil Engineers



Description

Technocad urban design software is a suite of PC based programs for the design and automated draughting of civil engineering urban services. Incorporated in this suite are software packages that cover all aspects of civil engineering services design such as Roads, Sewer reticulation, Stormwater reticulation and Water supply. All the packages have been written with knowledge gained in the civil design office where the need for fully automated draughting, rather than manually manipulated computer aided draughting, was identified as the only way of increasing design and draughting productivity.

PipeMate is the gravity sewer and stormwater software solution of the Technocad urban design software. The purpose of the software is to provide an intuitive graphical approach to sewer and stormwater reticulation design and analysis, whereby basic information pertaining to the reticulation system is gleaned directly from the AutoCAD drawing.

In addition, PipeMate gives you *final working layout and longitudinal section drawings with the minimum amount of manual input*. The designer works from within AutoCAD, the world's leading CAD software, building the drawings as the design process proceeds.

Work smarter

Pipe networks are co-ordinated and layout and longitudinal section drawings are created automatically from parameters chosen by the designer. All manhole numbering and pipe numbering is done for you. Quantities are also calculated, both for piping and manholes. In addition trench excavation volumes are also available. As you are working in AutoCAD, you can easily add extra notes, background images or attach reference files etc. prior to plotting the final working drawings. Let PipeMate do all the previously boring and mundane work!

Horizontal layout drawings

The designer simply has to draw lines representing the gravity pipe network in plan in AutoCAD, connecting the plots/stands as required, creating a 'dendritic' drainage network in the process. Line endpoints indicate manhole requirements - you do not have to draw any of the manholes; PipeMate does it all for you.

Simply draw a circle to indicate the position of the outfall. Place inflows into your network graphically optionally using "Red book" or Harmon Formula standards for attenuation by population.

When you have created your drainage reticulation layout, simply 'window' the network in AutoCAD and PipeMate calculates the following automatically:

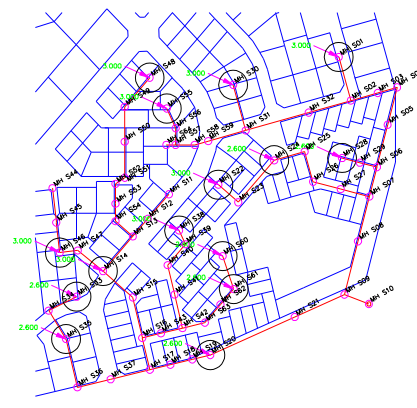
- Manholes are numbered for you and sorted in branch order
- Pipes are numbered and sorted
- Manhole / pipe topology automatically

Network pipe branching

PipeMate will automatically compute a pipe branching configuration for you. This branching configuration can then be viewed graphically. The designer has the option to accept PipeMate's branching or to change the branching. Once again, this is easily done by simply picking the pipes that make up your required branching arrangement.

Hydraulic design

Hydraulic design of the gravity sewers can be done with determination of drop manholes, pipe diameter choice from



COORDINATE LIST		PIPE DATA LIST	
Man No	Point (X,Y)	Man -	Man +
CON1	3000.000 -87.000.000	MP 501	MP 502
MP 501	800.000 -87.000.000	MP 502	MP 503
MP 502	800.000 -87.000.000	MP 503	MP 504
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