

## INTRODUCTION TO DESIGN AIDS

The design section of this manual is intended as an aid for use in water and sewer design, flexible pavement design, and hydrologic and hydraulic analysis. While it is presumed that the user of this manual is basically familiar with the methods of analysis presented herein; in many cases, the manual provides examples and detailed instructions for their development. An exception to this rule is the case where another source document is referenced that expounds upon the method in greater detail. In that case, the designer is directed to the source document.

The Town of Clayton recognizes the difficulty in accurately defining or predicting the dynamic properties of nature. There are numerous methods of analysis available and it is recommended that as many methods as may be appropriate be employed in the solution of a problem. Furthermore, in hydraulic design, the designer must give consideration towards economic, aesthetic, and environmental aspects of the given design.

To the best of their ability, the authors have tried to ensure that the information presented here is correct and that the procedures are reliable. The execution of an engineering design; however, involves the judgment of the designer and only he or she can ascertain whether a technique or item of information can be applied to a given situation.

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