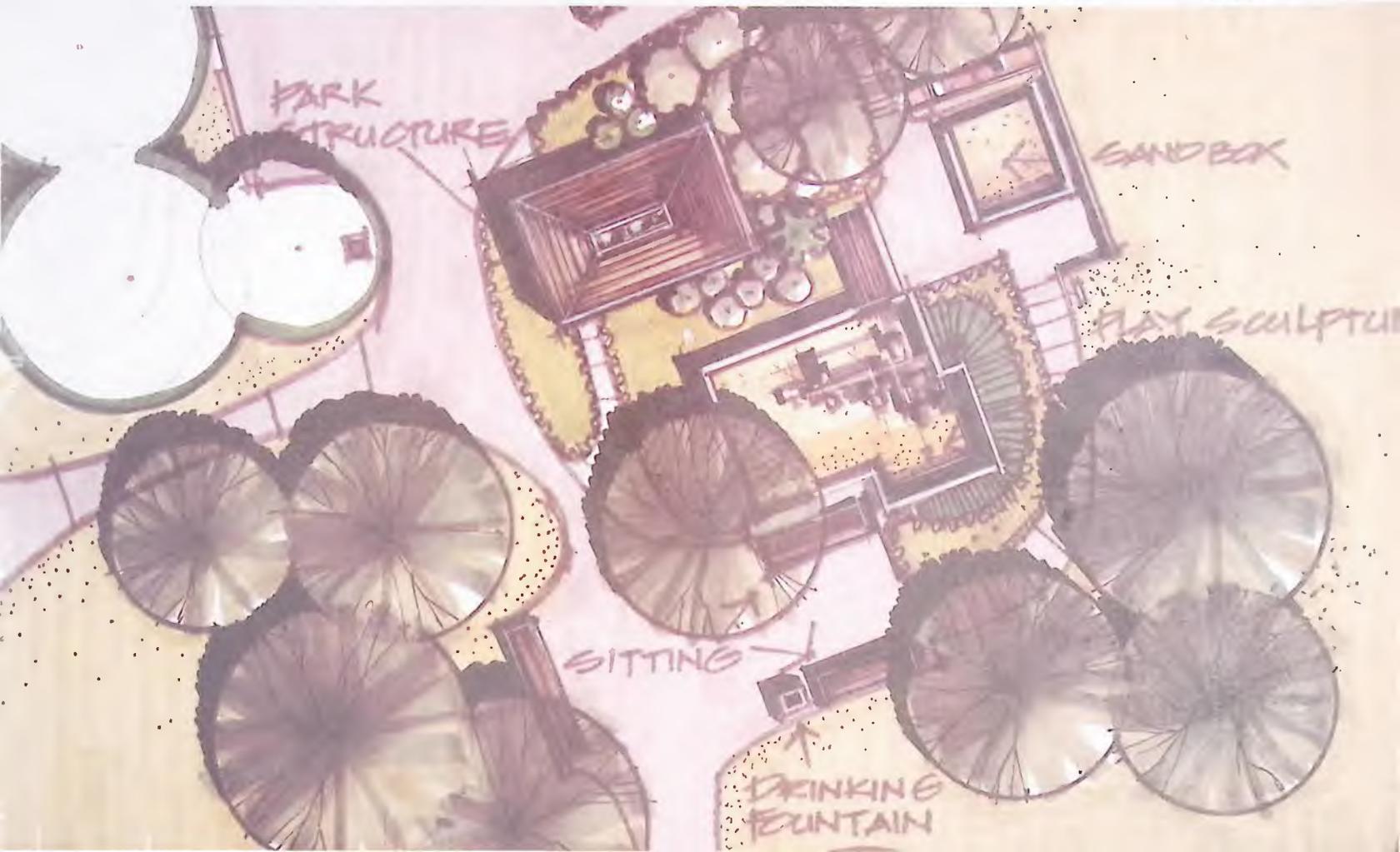


# PLAN AND SECTION DRAWING

THOMAS C. WANG



## PLAN AND SECTION DRAWING

Thomas C. Wang

As well as visualizing a project for a client, plan and section drawings also provide legal documentation and assist in developing the design concept. Here is a comprehensive book that fully describes the drawing approaches that are most effective in communicating architectural and landscape designs.

Thoroughly explaining the value and purpose of each drawing element, this easy-to-follow book offers a wealth of drawing techniques in a step-by-step fashion. Over 100 line drawings clearly demonstrate the *actual process* of preparing plan and section drawings.

Using preliminary maps and diagrams as the starting point, Thomas C. Wang discusses types of lines—long and short dashed lines, dotted lines, and continuous lines—their symbolism, and their functions. Four basic groups of symbols—representing aspects of buildings, plants, design elements, and supporting elements—are covered.

In a chapter on multiview projection the reader learns to draw the shape of a rectangular object and the adjacent relationships between the planes. This approach utilizes three views—top, front, and side—to convey accurate measurements and an exact image representation. The author shows how these drawings use line and texture to illustrate methods of construction. Most importantly, he directs the reader to use the exact scale and dimension for effective graphic communication.

The book shows how to use both horizontal and vertical dimensions to present a more realistic design image. Specific problems of regional sections and depth references are discussed, and well-detailed drawings show buildings, pavements, shadows, and roads. A chapter on plant life includes many drawings of trees, shrubs, and ground cover and demonstrates how plant life creates space, defines spatial edges, and adds color and shade to a design. Sample drawings of cars exemplify the use and importance of supporting elements in the correct proportion and positions. The book also shows how to draw water and how to indicate water depth in a drawing.

Filled with immensely helpful hints and clear, attractive illustrations, *Plan and Section Drawing* will be warmly welcomed by architects and landscape artists.

**Thomas C. Wang**, M.L.A., is an assistant professor in landscape architecture and regional planning at the University of Michigan, where his teaching responsibilities include design theory and visual communication. His earlier book for Van Nostrand Reinhold, *Pencil Sketching*, has enjoyed wide popularity among professionals and amateurs alike. He has worked as a landscape architect and graphic consultant and has taught design and graphic art at Harvard University and the University of Illinois. He studied at Harvard University and the University of Oregon.

**VAN NOSTRAND REINHOLD**  
115 Fifth Avenue, New York, N.Y. 10003

ISBN 0-442-29178-7



# Table of Contents

	<b>Foreword</b>	6
Chapter 1:	<b>Introduction</b>	7
Chapter 2:	<b>Line</b>	22
Chapter 3:	<b>Buildings</b>	27
Chapter 4:	<b>Trees</b>	34
Chapter 5:	<b>Shrubs</b>	41
Chapter 6:	<b>Ground Covers</b>	44
Chapter 7:	<b>Overlappings and Shadows</b>	47
Chapter 8:	<b>Pavements</b>	50
Chapter 9:	<b>Water</b>	52
Chapter 10:	<b>Cars</b>	54
Chapter 11:	<b>Roads</b>	56
Chapter 12:	<b>Sections and Elevations</b>	59
Chapter 13:	<b>Line Weight and Vertical Exaggeration</b>	64
Chapter 14:	<b>Plant Materials</b>	68
Chapter 15:	<b>Shadows</b>	76
Chapter 16:	<b>Examples</b>	77
	<b>Index</b>	96