



LEARNING FROM LAS VEGAS

Revised Edition

Robert Venturi Denise Scott Brown Steven Izenour

**LEARNING FROM LAS VEGAS:
THE FORGOTTEN SYMBOLISM
OF ARCHITECTURAL FORM**

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Denise Scott Brown
Steven Izenour

The MIT Press
Cambridge, Massachusetts, and London, England

Washington University
Art & Arch. Library
Steinberg Hall
St. Louis, Mo. 63130

TO ROBERT SCOTT BROWN, 1931-1959

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Originally published as *Learning from Las Vegas*

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This book was set in IBM Composer Baskerville by Techdata Associates, printed on R&E Book by Murray Printing Company, and bound by Murray Printing Company in the United States of America.

Library of Congress Cataloging in Publication Data

Venturi, Robert.
Learning from Las Vegas.

Bibliography: p.

1. Architecture--Nevada--Las Vegas. 2. Symbolism in architecture. I. Scott Brown, Denise, 1931- , joint author. II. Izenour, Steven, joint author. III. Title.
NA735.L3V4 1977 720'.9793'13 77-1917
ISBN 0-262-22020-2 (hardcover)
ISBN 0-262-72006-X (paperback)

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PREFACE TO THE FIRST EDITION

The first part of this book is a description of our study of the architecture of the commercial strip. Part II is a generalization on symbolism in architecture and the iconography of urban sprawl from our findings in Part I.

"Passing through Las Vegas is Route 91, the archetype of the commercial strip, the phenomenon at its purest and most intense. We believe a careful documentation and analysis of its physical form is as important to architects and urbanists today as were the studies of medieval Europe and ancient Rome and Greece to earlier generations. Such a study will help to define a new type of urban form emerging in America and Europe, radically different from that we have known; one that we have been ill-equipped to deal with and that, from ignorance, we define today as urban sprawl. An aim of this studio will be, through open-minded and nonjudgmental investigation, to come to understand this new form and to begin to evolve techniques for its handling."

So started the introduction to a studio we conducted at the Yale School of Art and Architecture in the fall of 1968. It was, in fact, a research project, undertaken as a collaboration among three instructors, nine students of architecture, and two planning and two graphics students in graduate programs at Yale. The studio was entitled "Learning from Las Vegas, or Form Analysis as Design Research." Toward the end of the semester, as the spirit of Las Vegas got to them, the students changed the second name to "The Great Proletarian Cultural Locomotive."

We spent three weeks in the library, four days in Los Angeles, and ten days in Las Vegas. We returned to Yale and spent ten weeks analyzing and presenting our discoveries. Before this, we authors had visited Las Vegas several times and written "A Significance for A&P Parking Lots, or Learning from Las Vegas" (*Architectural Forum*, March 1968); this formed the basis for the research program that we drafted during the summer of 1968. We divided the work into twelve topics, to be assigned to individuals or small groups, and into five phases, including Phase III, "Applied Research," in Las Vegas. The first part of this book contains our original article augmented by the findings of the research project. Unfortunately, with twelve or so people, we were not able to cover all the research topics we had programmed, nor did we have available time or data to cover other subjects adequately. There is still a wealth of architectural information to be culled from Las Vegas. In addition, some of the emphases that were important to the studio we have not stressed in this book; for example, our pedagogical interest in evolving the traditional architectural "studio" into a new tool for teaching archi

ture and our particular interest in finding graphic means, more suitable than those now used by architects and planners, to describe "urban sprawl" urbanism and particularly the commercial strip.

Las Vegas met our project with courtesy and helpfulness at the technical, planning agency level and with courtesy and unhelpfulness at the decision making level. No funds were available at city or county hall, and the chairman of the Strip Beautification Committee felt that Yale should pay Las Vegas to make the study. The day of our arrival a local paper announced, "Yale Professor Will Praise Strip for \$8,925." A few days later when, still hopeful, we requested a further sum for the making of a film, the newspaper rebounded, "Yale Professor Ups Price to Praise Strip." The nearest we came to official financial support was a reduction in the hourly price on the use of Mr. Howard Hughes's helicopter.

Our ideas too were met with polite skepticism, and we gathered that the Beautification Committee would continue to recommend turning the Strip into a western Champs Elysées, obscuring the signs with trees and raising the humidity level with giant fountains, and that the local planning and zoning agencies would continue to try to persuade the gasoline stations to imitate the architecture of the casinos, in the interest of architectural unity.

On the other hand, the Stardust Hotel, one of the finest on the Strip, gave us all free board and lodging. The car rental agencies combined to give us a week's free use of a car. And the Young Electric Sign Company (YESCO), in particular Mr. Vaughan Cannon, constituted itself our chief host and helper in Las Vegas. In addition, we are grateful to Mr. Jerry Litman, then of the *Las Vegas Sun*, for trying to give our study a more friendly press. And finally, to the much-respected Las Vegas citizen who took one female Yale professor to the gala opening of the Circus Circus Casino, legally, and wangled, semilegally, an entry to this social highlight for the whole class—attired to meet the situation in Day-Glo-decorated castoffs from the local Salvation Army Store.

The temptation is great to augment the list of thank-yous to include all those to whom three people feel warmly grateful for help in their intellectual lives. The following list has been culled from that much larger list to include those who have been the particular intellectual and artistic underpinnings of this project. They are the late Donald Drew Egbert, Herbert J. Gans, J. B. Jackson, Louis Kahn, Arthur Korn, Jean Labatut, Esther McCoy, Robert B. Mitchell, Charles Moore, Lewis Mumford, the Pop artists (particularly Edward Ruscha), Vincent Scully, Charles Seeger, Melvin M. Webber, and Tom Wolfe. With some temerity we acknowledge too the help of Michelangelo, the Italian and English Mannerists, Sir Edwin Lutyens, Sir Patrick Geddes, Frank Lloyd Wright, and the early generations of Heroic Modern architects.

Because we have criticized Modern architecture, it is proper here to state our intense admiration of its early period when its founders, sensitive to their own times, proclaimed the right revolution. Our argument lies mainly with the irrelevant and distorted prolongation of that old revolution today. Similarly we have no argument with the many architects today who, having discovered in practice through economic pressure that the rhetoric of architectural revolution would not work, have jettisoned it and are building straightforward buildings in line with the needs of the client and the times. Nor is this a criticism of those architects and academics who are developing new approaches to architecture through research in allied fields and in scientific methods. These too are in part a reaction to the same architecture we have criticized. We think the more directions that architecture takes at this point, the better. Ours does not exclude theirs and vice versa.

Our more formal but heartfelt thanks for help with the studio go to Avis Car Rental, Las Vegas; The Celeste and Armand Bartos Foundation; Dennis Durden; the Honorable Oran Gragson, Mayor of Las Vegas; Dr. David Henry, Clark County Administrator; Hertz Car Rental, Las Vegas; George Izenour; Philip Johnson; The Edgar J. Kaufmann Foundation; Alan Lapidus; Morris Lapidus; National Car Rental, Las Vegas; The Ossabaw Island Project; The Nathaniel and Marjorie Owings Foundation; The Rohm and Haas Company, Philadelphia; the staff, Clark County Planning Commission; the staff, Las Vegas City Planning Commission; U.C.L.A. School of Architecture and Urban Planning; Yale Reports; The Young Electric Sign Company, Las Vegas; and to all the people in and around the Yale School of Art and Architecture who pitched in and helped, especially Gert Wood; and to Dean Howard Weaver, Charles Moore, and Yale University, none of whom found it odd that Yale architects could have serious purposes in Las Vegas, and who picked up the tab when our meager sources of funding had been exhausted.

Our thanks also go to the students whose skill, energy, and wit fueled the great cultural locomotive and gave it its special character and who taught us how to live it up and learn in Las Vegas.

For the writing of the book, we thank the Edgar J. Kaufmann Foundation and the Celeste and Armand Bartos Foundation, both of which helped us a second time; the National Endowment for the Arts in Washington, D.C., a federal agency created by an Act of Congress, 1965; our firm, Venturi and Rauch, especially our partner, our Rauch of Gibraltar, for his sometimes grudging but always crucial support and for the sacrifices a small office makes when three of its members write a book; we thank Virginia Gordan and Dan and Carol Scully for their help and advice with the illustrations; and Janet Schueren and Carol

Rauch for typing the manuscript. And finally Steven Izenour, who is our co-worker, co-author, and *sine qua non*.

Denise Scott Brown and Robert Venturi

Calivigny Island, W. I.

PREFACE TO THE REVISED EDITION

This new edition of *Learning from Las Vegas* arose from the displeasure expressed by students and others at the price of the original version. Knowing that a second printing of the original version would be almost twice the original price, we have chosen instead to abridge the book to bring its ideas within the reach of those who would like to read it. At the same time, we have taken the opportunity to focus our argument more clearly and to add a little, so the new edition, although abridged, stands on its own and goes beyond its progenitor.

The main omissions are the final section, on our work, and about one-third of the illustrations, including almost all in color and those in black and white that could not be reduced to fit a smaller page size. Changes in format further reduce costs, but we hope that they will serve too, to shift the book's emphasis from illustrations to text, and to remove the conflict between our critique of Bauhaus design and the latter-day Bauhaus design of the book; the "interesting" Modern styling of the first edition, we felt, belied our subject matter, and the triple spacing of the lines made the text hard to read.

Stripped and newly clothed, the analyses of Part I and the theories of Part II should appear more clearly what we intended them to be: a treatise on symbolism in architecture. Las Vegas is not the subject of our book. The symbolism of architectural form is. Most alterations to the text (aside from corrections of errors and changes to suit the new format) are made to point up this focus. For the same reason we have added a subtitle, *The Forgotten Symbolism of Architectural Form*. A few more changes were made, elegantly, we hope, to "de-sex" the text. Following the saner, more humane custom of today, the architect is no longer referred to as "he."

This is not a suitable place to respond to our critics, but, as we intend to augment as well as to abridge, I shall list our replies made in other places.

Allegations that in studying Las Vegas we lacked social responsibility and concern are answered in an article entitled "On Architectural Formalism and Social Concern; a Discourse for Social Planners and Radical Chic Architects."

Since *Learning from Las Vegas* was written, the lights of Las Vegas have gone out for a spell and Americans' confidence in the automobile and other resources has been rocked in the first of possibly many crises. High energy expenditure and urban wastefulness are not central to our arguments for symbolic architecture and receptivity to other peoples' values; I tried to show why in an interview in *On Site on Energy*.

Robert Venturi's note on attribution in the first edition, with its request for fairness to his co-authors and co-workers, was virtually ignored by almost all reviewers. Personal pique at the cavalier handling of

my contribution and at attributions in general by architects and journalists led me to analyze the social structure of the profession, its domination by upper-class males, and the emphasis its members place upon the architectural star system. The result is an article entitled "Sexism and the Star System in Architecture."

Source information on these and other articles may be found in the Venturi and Rauch bibliography which has been added to this edition. This list of writings by members of the firm and others is the most complete we have. We welcome information on anything we have omitted.

Since the publication of this book our thoughts on symbolism in architecture have been developed through several different projects. The Yale architecture studio that gave rise to *Learning from Las Vegas* was followed the next year by a study of architectural symbolism in residential suburbia, entitled "Remedial Housing for Architects, or Learning from Levittown." This material forms part of "Signs of Life: Symbols in the American City," a Bicentennial exhibition we designed for the National Collection of Fine Arts of the Smithsonian Institution at the Renwick Gallery. In similar vein, an article, "Symbols, Signs and Aesthetics: Architectural Taste in a Pluralist Society," comments on the social content of architectural symbolism and on the relation of architects to the different taste cultures of our society; and another, "Architecture as Shelter with Decoration on It," amplifies our theories on symbolism.

Questions of architectural pedagogy were of great concern in the two Yale projects but were merely hinted at in *Learning from Las Vegas*. In this revised version the parallel text of studio notes has been removed to a separate section and keyed to the Part I text. In this form it reestablishes something of its original identity. Further thoughts on architectural pedagogy, research, and studio are expounded in an article entitled "On Formal Analysis as Design Research, with Some Notes on Studio Pedagogy."

Publications on our architectural work are listed in the bibliography. Fairly recent broad-scale coverage has been given our firm in two issues of Japanese *Architecture and Urbanism*.

In the nine years since our study was initiated, Las Vegas and the Strip have changed too. Some buildings have new wings and restyled facades. Some signs are no longer there. Delicate and intense neon high readers have given way to bland, white, plastic, rear-illuminated message boards that alter the scale and vitality of Strip ornament. Portes cocheres now vie with signs as bearers of symbolic information.

We sense that the ideas initiated in *Learning from Las Vegas* are receiving much greater acceptance than when they were first published. We feel too that architects, bar a few diehards, are coming to realize that what we learned from Las Vegas, and what they by implication

should learn too, is not to place neon signs on the Champs Elysées or a blinking "2 + 2 = 4" on the roof of the Mathematics Building, but rather to reassess the role of symbolism in architecture, and, in the process, to learn a new receptivity to the tastes and values of other people and a new modesty in our designs and in our perception of our role as architects in society. Architecture for the last quarter of our century should be socially less coercive and aesthetically more vital than the striving and bombastic buildings of our recent past. We architects can learn this from Rome and Las Vegas and from looking around us wherever we happen to be.

Denise Scott Brown

West Mount Airy, Philadelphia

PART I
A SIGNIFICANCE FOR
A&P PARKING LOTS,
OR LEARNING FROM LAS VEGAS

§ A SIGNIFICANCE FOR A&P PARKING LOTS, OR LEARNING FROM LAS VEGAS

*"Substance for a writer consists not merely of those realities he thinks he discovers; it consists even more of those realities which have been made available to him by the literature and idioms of his own day and by the images that still have vitality in the literature of the past. Stylistically, a writer can express his feeling about this substance either by imitation, if it sits well with him, or by parody, if it doesn't."*¹

[Learning from the existing landscape is a way of being revolutionary for an architect. Not the obvious way, which is to tear down Paris and begin again, as Le Corbusier suggested in the 1920s, but another, more tolerant way; that is, to question how we look at things.

[The commercial strip, the Las Vegas Strip in particular—the example par excellence (Figs. 1 and 2)—challenges the architect to take a positive, non-chip-on-the-shoulder view. Architects are out of the habit of looking nonjudgmentally at the environment, because orthodox Modern architecture is progressive, if not revolutionary, utopian, and puristic; it is dissatisfied with *existing* conditions. Modern architecture has been anything but permissive: Architects have preferred to change the existing environment rather than enhance what is there.]

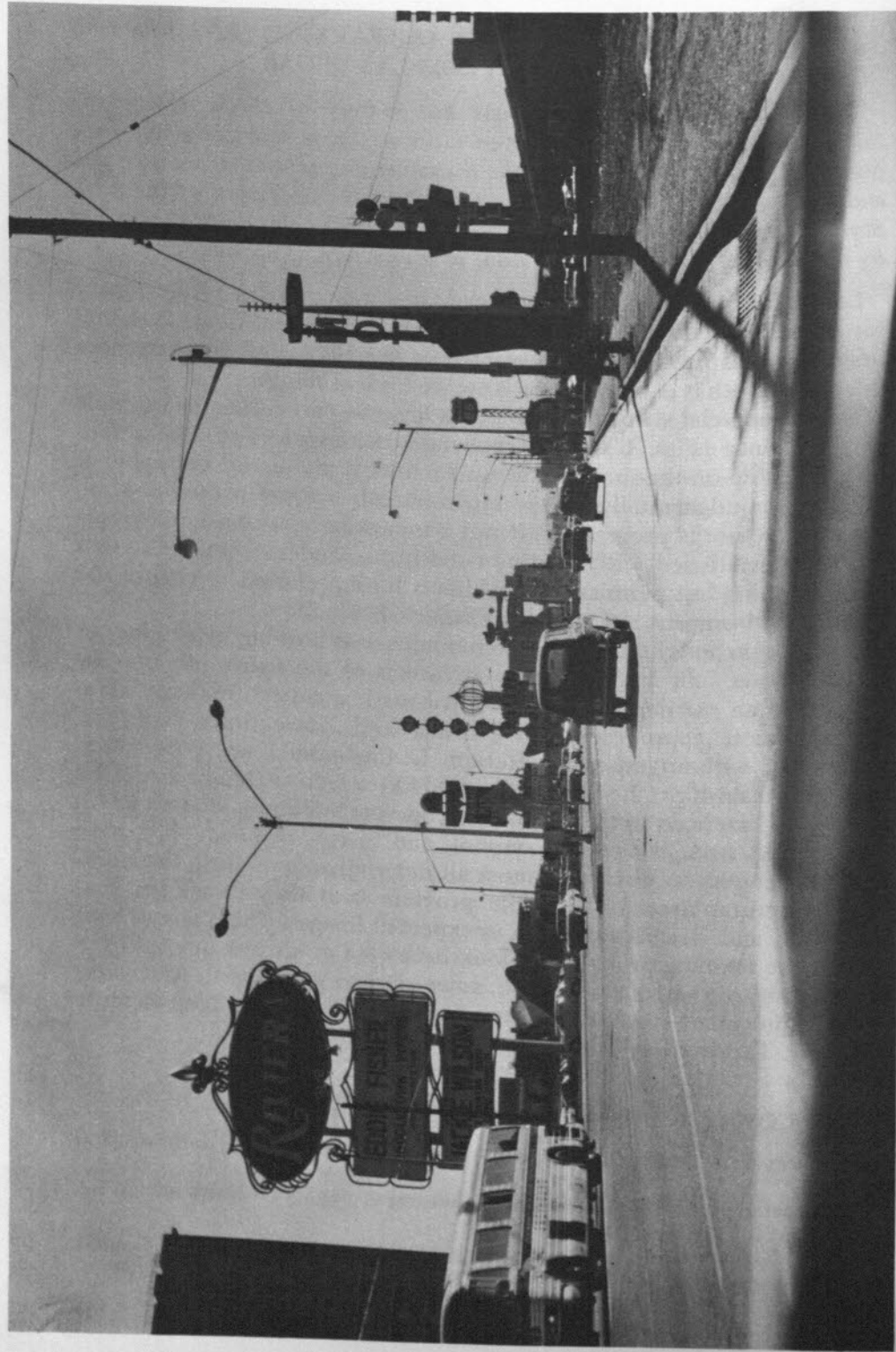
A/pus But to gain insight from the commonplace is nothing new: Fine art often follows folk art. Romantic architects of the eighteenth century discovered an existing and conventional rustic architecture. Early Modern architects appropriated an existing and conventional industrial vocabulary without much adaptation. Le Corbusier loved grain elevators and steamships; the Bauhaus looked like a factory; Mies refined the details of American steel factories for concrete buildings. Modern architects work through analogy, symbol, and image—although they have gone to lengths to disclaim almost all determinants of their forms except structural necessity and the program—and they derive insights, analogies, and stimulation from unexpected images. There is a perversity in the learning process: We look backward at history and tradition to go forward; we can also look downward to go upward. And withholding judgment may be used as a tool to make later judgment more sensitive. This is a way of learning from everything.] ★

§ COMMERCIAL VALUES AND COMMERCIAL METHODS

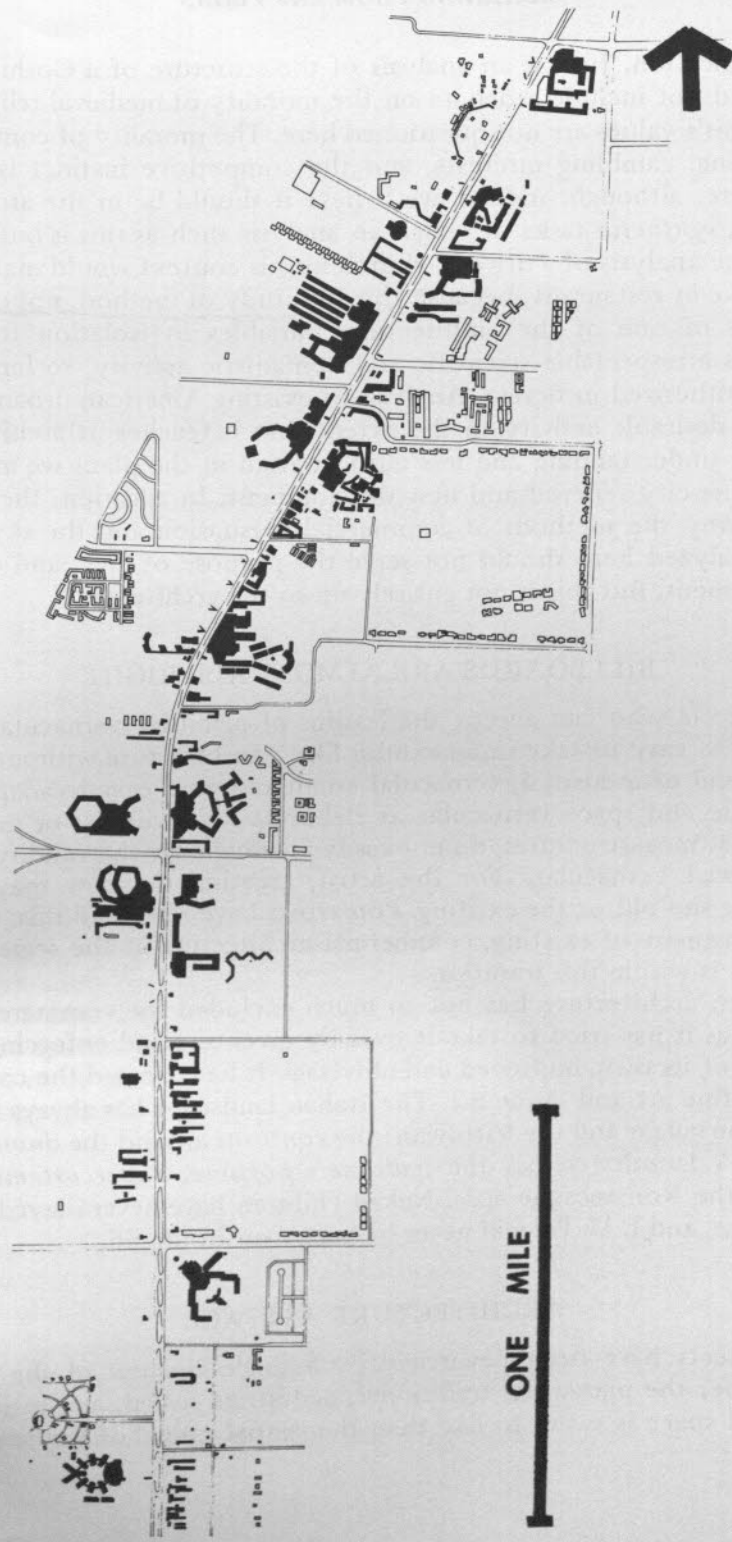
Las Vegas is analyzed here only as a phenomenon of architectural

§ See material under the corresponding heading in the Studio Notes section following Part I.

1. Richard Poirier, "T. S. Eliot and the Literature of Waste," *The New Republic* (May 20, 1967), p. 21.



1. The Las Vegas Strip, looking southwest



2. Map of Las Vegas Strip

* social symbols //

communication. Just as an analysis of the structure of a Gothic cathedral need not include a debate on the morality of medieval religion, so Las Vegas's values are not questioned here. The morality of commercial advertising, gambling interests, and the competitive instinct is not at issue here, although, indeed, we believe it should be in the architect's broader, *synthetic* tasks of which an analysis such as this is but one aspect. The analysis of a drive-in church in this context would match that of a drive-in restaurant, because this is a study of method, not content. Analysis of one of the architectural variables in isolation from the others is a respectable scientific and humanistic activity, so long as all are resynthesized in design. Analysis of existing American urbanism is a socially desirable activity to the extent that it teaches us architects to be more understanding and less authoritarian in the plans we make for both inner-city renewal and new development. In addition, there is no reason why the methods of commercial persuasion and the skyline of signs analyzed here should not serve the purpose of civic and cultural enhancement. But this is not entirely up to the architect.

BILLBOARDS ARE ALMOST ALL RIGHT

Architects who can accept the lessons of primitive vernacular architecture, so easy to take in an exhibit like "Architecture without Architects," and of industrial, vernacular architecture, so easy to adapt to an electronic and space vernacular as elaborate neo-Brutalist or neo-Constructivist megastructures, do not easily acknowledge the validity of the commercial vernacular. For the artist, creating the new may mean choosing the old or the existing. Pop artists have relearned this. Our acknowledgment of existing, commercial architecture at the scale of the highway is within this tradition.

Modern architecture has not so much excluded the commercial vernacular as it has tried to take it over by inventing and enforcing a vernacular of its own, improved and universal. It has rejected the combination of fine art and crude art. The Italian landscape has always harmonized the vulgar and the Vitruvian: the *contorni* around the *duomo*, the *portiere's* laundry across the *padrone's portone*, *Supercortemaggiore* against the Romanesque apse. Naked children have never played in our fountains, and I. M. Pei will never be happy on Route 66.

ARCHITECTURE AS SPACE

Architects have been bewitched by a single element of the Italian landscape: the piazza. Its traditional, pedestrian-scaled, and intricately enclosed space is easier to like than the spatial sprawl of Route 66 and

Los Angeles. Architects have been brought up on Space, and enclosed space is the easiest to handle. During the last 40 years, theorists of Modern architecture (Wright and Le Corbusier sometimes excepted) have focused on space as the essential ingredient that separates architecture from painting, sculpture, and literature. Their definitions glory in the uniqueness of the medium; although sculpture and painting may sometimes be allowed spatial characteristics, sculptural or pictorial architecture is unacceptable—because Space is sacred.

Purist architecture was partly a reaction against nineteenth-century eclecticism. Gothic churches, Renaissance banks, and Jacobean manors were frankly picturesque. The mixing of styles meant the mixing of media. Dressed in historical styles, buildings evoked explicit associations and romantic allusions to the past to convey literary, ecclesiastical, national, or programmatic symbolism. Definitions of architecture as space and form at the service of program and structure were not enough. The overlapping of disciplines may have diluted the architecture, but it enriched the meaning. ✱

Modern architects abandoned a tradition of iconology in which painting, sculpture, and graphics were combined with architecture. The delicate hieroglyphics on a bold pylon, the archetypal inscriptions of a Roman architrave, the mosaic processions in Sant'Apollinare, the ubiquitous tattoos over a Giotto Chapel, the enshrined hierarchies around a Gothic portal, even the illusionistic frescoes in a Venetian villa, all contain messages beyond their ornamental contribution to architectural space. The integration of the arts in Modern architecture has always been called a good thing. But one did not paint *on* Mies. Painted panels were floated independently of the structure by means of shadow joints; sculpture was in or near but seldom on the building. Objects of art were used to reinforce architectural space at the expense of their own content. The Kolbe in the Barcelona Pavilion was a foil to the directed spaces: The message was mainly architectural. The diminutive signs in most Modern buildings contained only the most necessary messages, like LADIES, minor accents begrudgingly applied.

ARCHITECTURE AS SYMBOL

Critics and historians, who documented the "decline of popular symbols" in art, supported orthodox Modern architects, who shunned symbolism of form as an expression or reinforcement of content: meaning was to be communicated, not through allusion to previously known forms, but through the inherent, physiognomic characteristics of form. The creation of architectural form was to be a logical process, free from images of past experience, determined solely by program and structure, //

with an occasional assist, as Alan Colquhoun has suggested,² from intuition.

But some recent critics have questioned the possible level of content to be derived from abstract forms. Others have demonstrated that the functionalists, despite their protestations, derived a formal vocabulary of their own, mainly from current art movements and the industrial vernacular; and latter-day followers such as the Archigram group have turned, while similarly protesting, to Pop Art and the space industry. However, most critics have slighted a continuing iconology in popular commercial art, the persuasive heraldry that pervades our environment from the advertising pages of *The New Yorker* to the superbillboards of Houston. And their theory of the "debasement" of symbolic architecture in nineteenth-century eclecticism has blinded them to the value of the representational architecture along highways. Those who acknowledge this roadside eclecticism denigrate it, because it flaunts the cliché of a decade ago as well as the style of a century ago. But why not? Time travels fast today.

The Miami Beach Modern motel on a bleak stretch of highway in southern Delaware reminds jaded drivers of the welcome luxury of a tropical resort, persuading them, perhaps, to forgo the gracious plantation across the Virginia border called Motel Monticello. The real hotel in Miami alludes to the international stylishness of a Brazilian resort, which, in turn, derives from the International Style of middle Corbu. This evolution from the high source through the middle source to the low source took only 30 years. Today, the middle source, the neo-Eclectic architecture of the 1940s and the 1950s, is less interesting than its commercial adaptations. Roadside copies of Ed Stone are more interesting than the real Ed Stone.

§ SYMBOL IN SPACE BEFORE FORM IN SPACE: LAS VEGAS AS A COMMUNICATION SYSTEM

The sign for the Motel Monticello, a silhouette of an enormous Chipendale highboy, is visible on the highway before the motel itself. This architecture of styles and signs is antispacial; it is an architecture of communication over space; communication dominates space as an element in the architecture and in the landscape (Figs. 1-6). But it is for a new scale of landscape. The philosophical associations of the old eclecticism evoked subtle and complex meanings to be savored in the docile spaces of a traditional landscape. The commercial persuasion of roadside eclecticism provokes bold impact in the vast and complex setting of a new landscape of big spaces, high speeds, and complex programs.

2. Alan Colquhoun, "Typology and Design Method," *Arena*, Journal of the Architectural Association (June 1967), pp. 11-14.

Styles and signs make connections among many elements, far apart and seen fast. The message is basely commercial; the context is basically new.

A driver 30 years ago could maintain a sense of orientation in space. At the simple crossroad a little sign with an arrow confirmed what was obvious. One knew where one was. When the crossroads becomes a cloverleaf, one must turn right to turn left, a contradiction poignantly evoked in the print by Allan D'Arcangelo (Fig. 7). But the driver has no time to ponder paradoxical subtleties within a dangerous, sinuous maze. He or she relies on signs for guidance—enormous signs in vast spaces at high speeds.

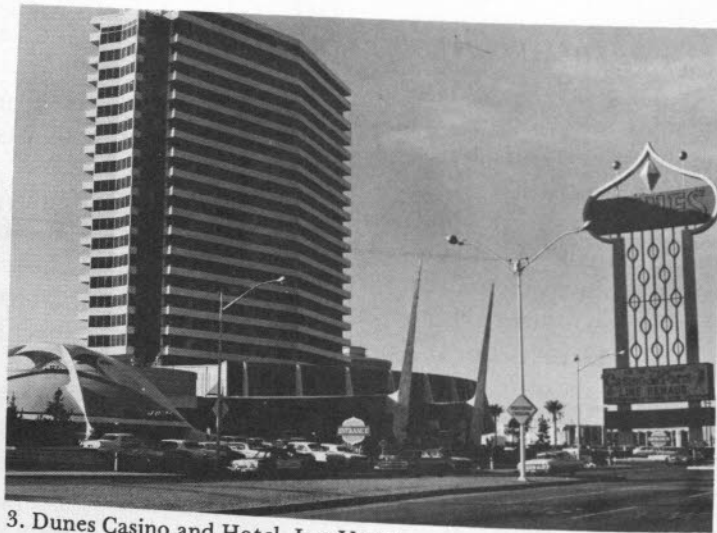
The dominance of signs over space at a pedestrian scale occurs in big airports. Circulation in a big railroad station required little more than a simple axial system from taxi to train, by ticket window, stores, waiting room, and platform—all virtually without signs. Architects object to signs in buildings: "If the plan is clear, you can see where to go." But complex programs and settings require complex combinations of media beyond the purer architectural triad of structure, form, and light at the service of space. They suggest an architecture of bold communication rather than one of subtle expression.

§ THE ARCHITECTURE OF PERSUASION

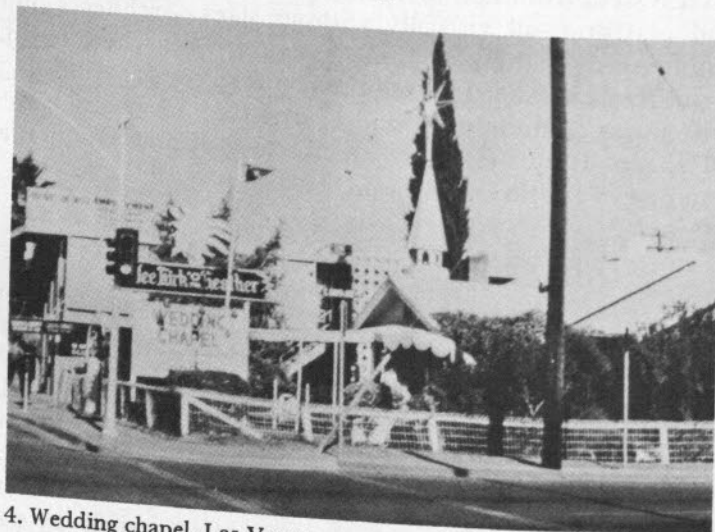
The cloverleaf and airport communicate with moving crowds in cars or on foot for efficiency and safety. But words and symbols may be used in space for commercial persuasion (Figs. 6, 28). The Middle Eastern bazaar contains no signs; the Strip is virtually all signs (Fig. 8). In the bazaar, communication works through proximity. Along its narrow aisles, buyers feel and smell the merchandise, and the merchant applies explicit oral persuasion. In the narrow streets of the medieval town, although signs occur, persuasion is mainly through the sight and smell of the real cakes through the doors and windows of the bakery. On Main Street, shop-window displays for pedestrians along the sidewalks and exterior signs, perpendicular to the street for motorists, dominate the scene almost equally.

On the commercial strip the supermarket windows contain no merchandise. There may be signs announcing the day's bargains, but they are to be read by pedestrians approaching from the parking lot. The building itself is set back from the highway and half hidden, as is most of the urban environment, by parked cars (Fig. 9). The vast parking lot is in front, not at the rear, since it is a symbol as well as a convenience. The building is low because air conditioning demands low spaces, and merchandising techniques discourage second floors; its architecture is neutral because it can hardly be seen from the road. Both merchandise

signs
didn't see
plant



3. Dunes Casino and Hotel, Las Vegas



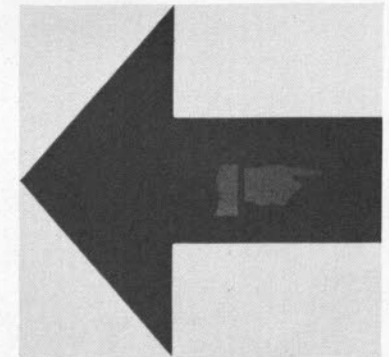
4. Wedding chapel, Las Vegas



5. Stardust Casino and Hotel, Las Vegas



6. Night messages, Las Vegas

7. Allan D'Arcangelo, *The Trip*

DIRECTIONAL SPACE

	SPACE · SCALE	SPEED	SYMBOL sign-symbol-bldg ratio
EASTERN BAZAAR		3 M.P.H.	
MEDIEVAL STREET		3 M.P.H.	
MAIN STREET		3 M.P.H. 20 M.P.H.	
COMMERCIAL STRIP		35 M.P.H.	
THE STRIP		35 M.P.H.	
SHOPPING CENTER		3 M.P.H. 50 M.P.H.	

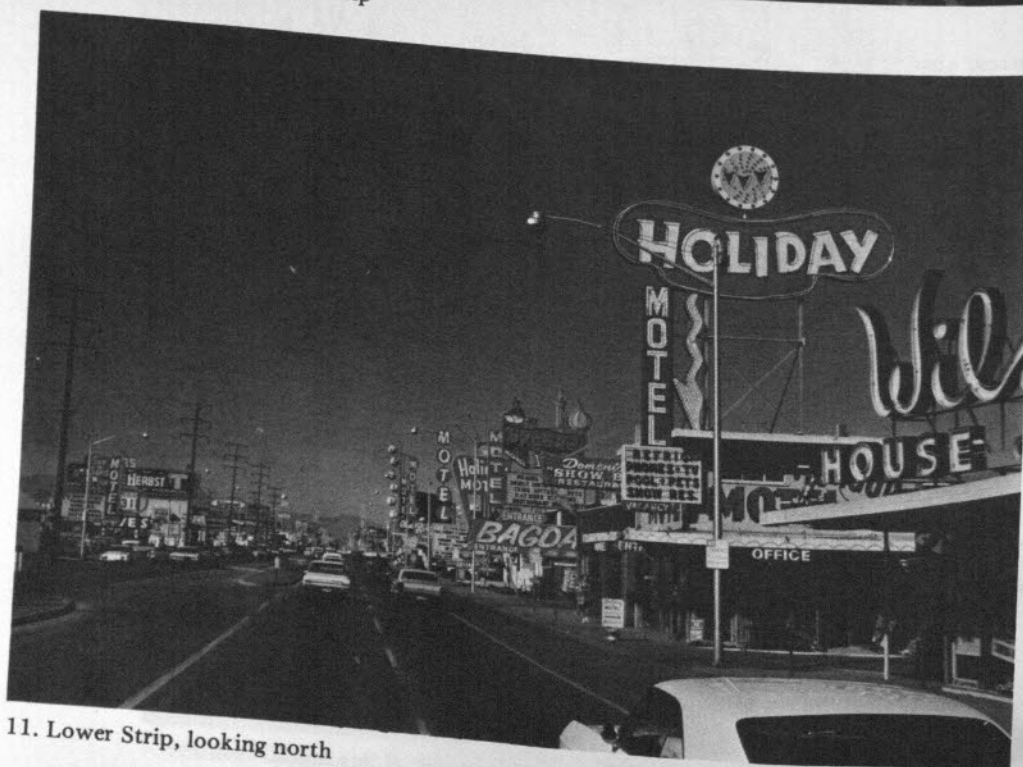
8. A comparative analysis of directional spaces



9. Parking lot of a suburban supermarket



10. Tanya billboard on the Strip



11. Lower Strip, looking north

and architecture are disconnected from the road. The big sign leaps to connect the driver to the store, and down the road the cake mixes and detergents are advertised by their national manufacturers on enormous billboards inflected toward the highway. The graphic sign in space has become the architecture of this landscape (Figs. 10, 11). Inside, the A&P has reverted to the bazaar except that graphic packaging has replaced the oral persuasion of the merchant. At another scale, the shopping center off the highway returns in its pedestrian malls to the medieval street.

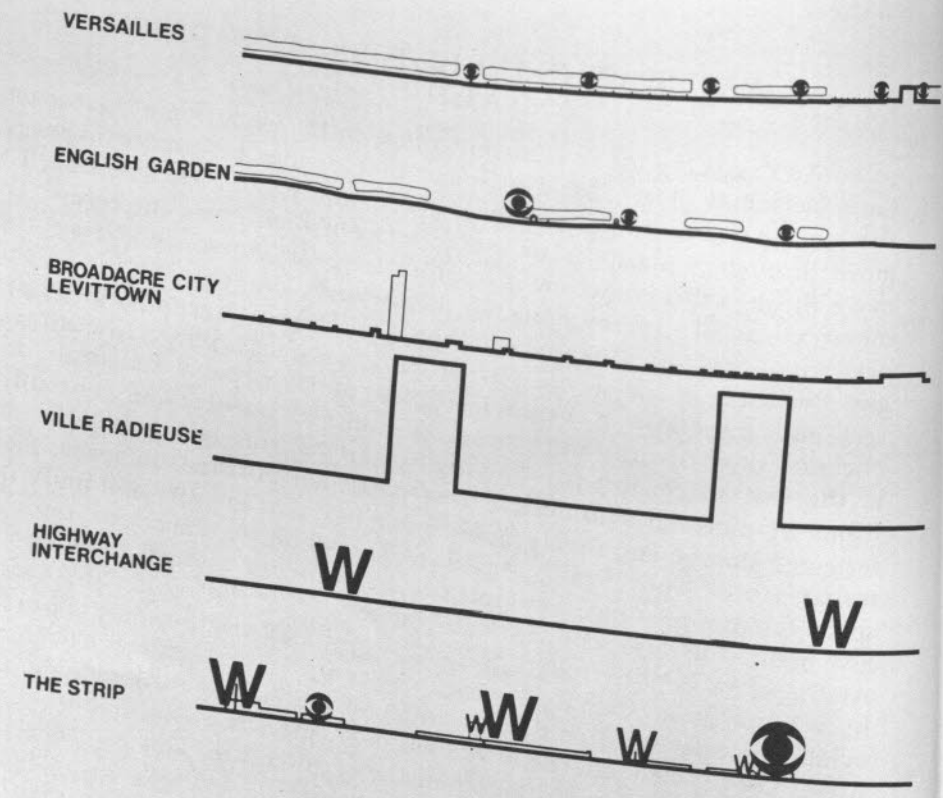
§ VAST SPACE IN THE HISTORICAL TRADITION AND AT THE A&P

The A&P parking lot is a current phase in the evolution of vast space since Versailles (Fig. 12). The space that divides high-speed highway and low, sparse buildings produces no enclosure and little direction. To move through a piazza is to move between high enclosing forms. To move through this landscape is to move over vast expansive texture: the megatexture of the commercial landscape. The parking lot is the *parterre* of the asphalt landscape (Fig. 13). The patterns of parking lines give direction much as the paving patterns, curbs, borders, and *tapis vert* give direction in Versailles; grids of lamp posts substitute for obelisks, rows of urns and statues as points of identity and continuity in the vast space. But it is the highway signs, through their sculptural forms or pictorial silhouettes, their particular positions in space, their inflected shapes, and their graphic meanings, that identify and unify the megatexture. They make verbal and symbolic connections through space, communicating a complexity of meanings through hundreds of associations in few seconds from far away. Symbol dominates space. Architecture is not enough. Because the spatial relationships are made by symbols more than by forms, architecture in this landscape becomes symbol in space rather than form in space. Architecture defines very little: The big sign and the little building is the rule of Route 66.

The sign is more important than the architecture. This is reflected in the proprietor's budget. The sign at the front is a vulgar extravaganza, the building at the back, a modest necessity. The architecture is what is cheap. Sometimes the building is the sign: The duck store in the shape of a duck, called "The Long Island Duckling," (Figs. 14, 15) is sculptural symbol and architectural shelter. Contradiction between outside and inside was common in architecture before the Modern movement, particularly in urban and monumental architecture (Fig. 16). Baroque domes were symbols as well as spatial constructions, and they are bigger in scale and higher outside than inside in order to dominate their urban setting and communicate their symbolic message. The false fronts of

VAST SPACE

SPACE · SCALE



SPACE · SCALE · SPEED · SYMBOL

12. A comparative analysis of vast spaces

SYMBOL

symbol word architecture elements

● W ▲ elements

● statues-urns
fountains
partere
curbs

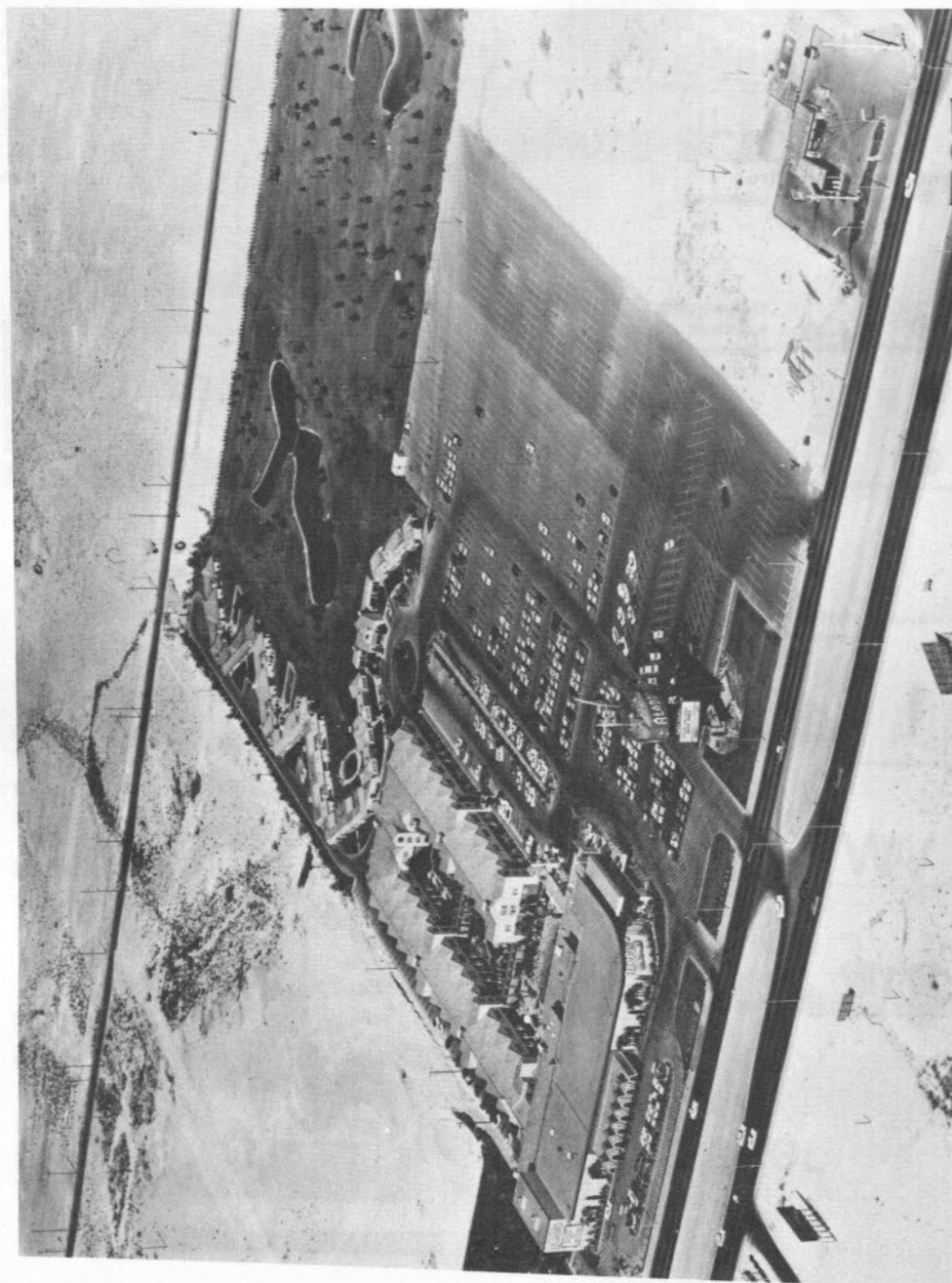
● trees
runes
temples of love

▲ usonian houses
ranch houses

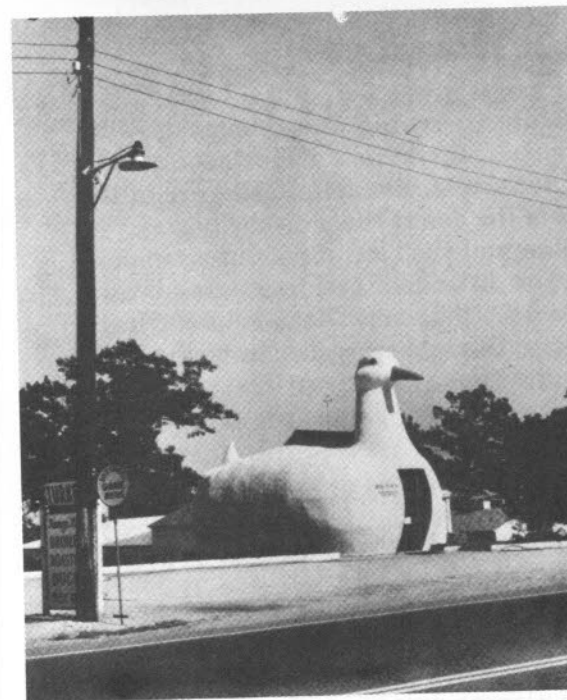
▲ proto-megastructures

W green signs

● W ▲ see other topics

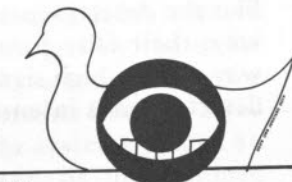


13. Aladdin Casino and Hotel, Las Vegas

14. "The Long Island Duckling" from
God's Own Junkyard

BIG SIGN - LITTLE BUILDING

OR

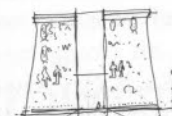
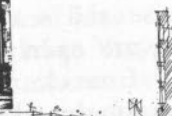
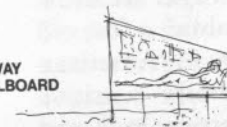


BUILDING IS SIGN

15. Big sign-little building or building
as sign

SCALE SPEED SYMBOL

AMIENS

EGYPTIAN
PYLONTRIUMPHAL
ARCHROMAN
THEATREHIWAY
BILLBOARD

LAS VEGAS

persuader to
enclosed spacespace divider with
civic messagescomplex-space
connectorambiguous
back dropvast-space
persuadervast-space
connector

16. A comparative analysis of "billboards" in space

Western stores did the same thing: They were bigger and taller than the interiors they fronted to communicate the store's importance and to enhance the quality and unity of the street. But false fronts are of the order and scale of Main Street. From the desert town on the highway in the West of today, we can learn new and vivid lessons about an impure architecture of communication. The little low buildings, gray-brown like the desert, separate and recede from the street that is now the highway, their false fronts disengaged and turned perpendicular to the highway as big, high signs. If you take the signs away, there is no place. The desert town is intensified communication along the highway.

FROM ROME TO LAS VEGAS

Las Vegas is the apotheosis of the desert town. Visiting Las Vegas in the mid-1960s was like visiting Rome in the late 1940s. For young Americans in the 1940s, familiar only with the auto-scaled, gridiron city and the antiurban theories of the previous architectural generation, the traditional urban spaces, the pedestrian scale, and the mixtures, yet continuities, of styles of the Italian piazzas were a significant revelation. They rediscovered the piazza. Two decades later architects are perhaps ready for similar lessons about large open space, big scale, and high speed. Las Vegas is to the Strip what Rome is to the Piazza.

There are other parallels between Rome and Las Vegas: their expansive settings in the Campagna and in the Mojave Desert, for instance, that tend to focus and clarify their images. On the other hand, Las Vegas was built in a day, or rather, the Strip was developed in a virgin desert in a short time. It was not superimposed on an older pattern as were the pilgrim's Rome of the Counter-Reformation and the commercial strips of eastern cities, and it is therefore easier to study. Each city is an archetype rather than a prototype, an exaggerated example from which to derive lessons for the typical. Each city vividly superimposes elements of a supranational scale on the local fabric: churches in the religious capital, casinos and their signs in the entertainment capital. These cause violent juxtapositions of use and scale in both cities. Rome's churches, off streets and piazzas, are open to the public; the pilgrim, religious or architectural, can walk from church to church. The gambler or architect in Las Vegas can similarly take in a variety of casinos along the Strip. The casinos and lobbies of Las Vegas are ornamental and monumental and open to the promenading public; a few old banks and railroad stations excepted, they are unique in American cities. Nolli's map of the mid-eighteenth century reveals the sensitive and complex connections between public and private space in Rome (Fig. 17). Private building is shown in gray crosshatching that is carved into by the public spaces, exterior *and* interior. These spaces, open or

roofed, are shown in minute detail through darker *poché*. Interiors of churches read like piazzas and courtyards of palaces, yet a variety of qualities and scales is articulated.

§ MAPS OF LAS VEGAS

A "Nolli" map of the Las Vegas Strip reveals and clarifies what is public and what is private, but here the scale is enlarged by the inclusion of the parking lot, and the solid-to-void ratio is reversed by the open spaces of the desert. Mapping the Nolli components from an aerial photograph provides an intriguing crosscut of Strip systems (Fig. 18). These components, separated and redefined, could be undeveloped land, asphalt, autos, buildings, and ceremonial space (Figs. 19 *a-e*). Reassembled, they describe the Las Vegas equivalent of the pilgrims' way, although the description, like Nolli's map, misses the iconological dimensions of the experience (Fig. 20).

A conventional land-use map of Las Vegas can show the overall structure of commercial use in the city as it relates to other uses but none of the detail of use type or intensity. "Land-use" maps of the insides of casino complexes, however, begin to suggest the systematic planning that all casinos share (Fig. 21). Strip "address" and "establishment" maps can depict both intensity and variety of use (Fig. 22). Distribution maps show patterns of, for example, churches, and food stores (Figs. 24, 25) that Las Vegas shares with other cities and those such as wedding chapels and auto rental stations (Figs. 26, 27) that are Strip-oriented and unique. It is extremely hard to suggest the atmospheric qualities of Las Vegas, because these are primarily dependent on watts (Fig. 23), animation, and iconology; however, "message maps," tourist maps, and brochures suggest some of it (Figs. 28, 71).

§ MAIN STREET AND THE STRIP

A street map of Las Vegas reveals two scales of movement within the gridiron plan: that of Main Street and that of the Strip (Figs. 29, 30). The main street of Las Vegas is Fremont Street, and the earlier of two concentrations of casinos is located along three of four blocks of this street (Fig. 31). The casinos here are bazaarlike in the immediacy to the sidewalk of their clicking and tinkling gambling machines (Fig. 32). The Fremont Street casinos and hotels focus on the railroad depot at the head of the street; here the railroad and main street scales of movement connect. The depot building is now gone, replaced by a hotel, and the bus station is now the busier entrance to town, but the axial focus on the railroad depot from Fremont Street was visual, and possibly sym-

bolic. This contrasts with the Strip, where a second and later development of casinos extends southward to the airport, the jet-scale entrance to town (Figs. 23, 24, 42, 43, 52, 54).

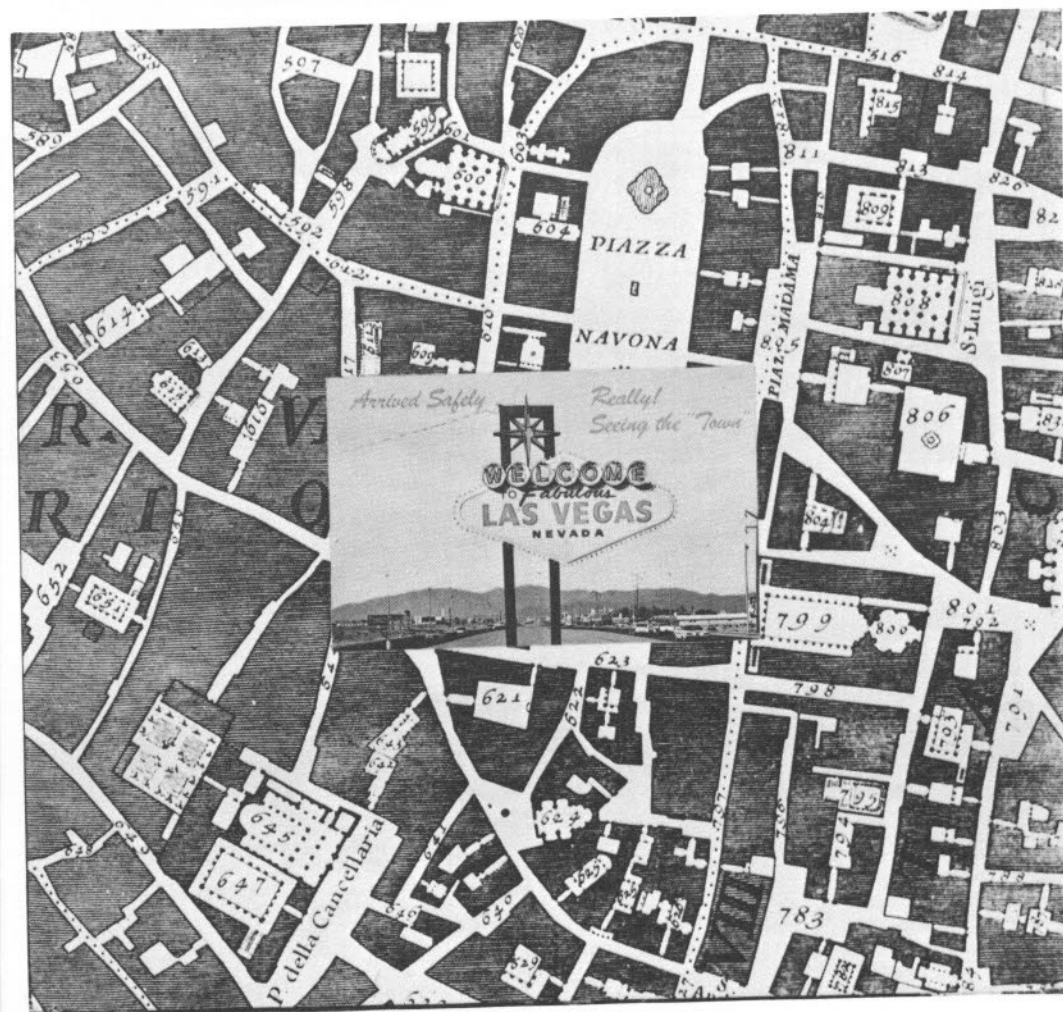
One's first introduction to Las Vegas architecture is a forebear of Eero Saarinen's TWA Terminal, which is the local airport building. Beyond this piece of architectural image, impressions are scaled to the car rented at the airport. Here is the unraveling of the famous Strip itself, which, as Route 91, connects the airport with the downtown (Fig. 33).

§ SYSTEM AND ORDER ON THE STRIP

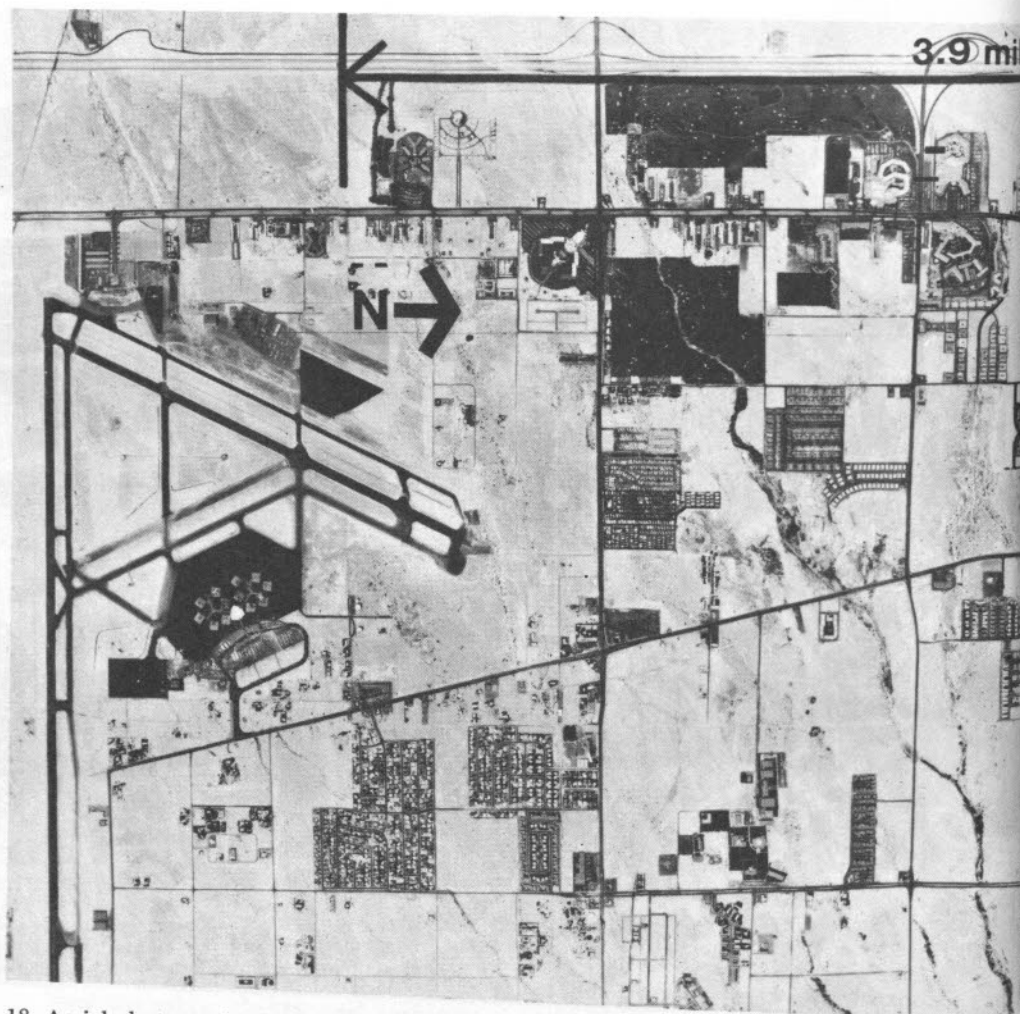
The image of the commercial strip is chaos. The order in this landscape is not obvious (Fig. 34). The continuous highway itself and its systems for turning are absolutely consistent. The median strip accommodates the U-turns necessary to a vehicular promenade for casino crawlers as well as left turns onto the local street pattern that the Strip intersects. The curbing allows frequent right turns for casinos and other commercial enterprises and eases the difficult transitions from highway to parking. The streetlights function superfluously along many parts of the Strip that are incidentally but abundantly lit by signs, but their consistency of form and position and their arching shapes begin to identify by day a continuous space of the highway, and the constant rhythm contrasts effectively with the uneven rhythms of the signs behind (Fig. 35).

This counterpoint reinforces the contrast between two types of order on the Strip: the obvious visual order of street elements and the difficult visual order of buildings and signs. The zone *of* the highway is a shared order. The zone *off* the highway is an individual order (Fig. 36). The elements of the highway are civic. The buildings and signs are private. In combination they embrace continuity *and* discontinuity, going *and* stopping, clarity *and* ambiguity, cooperation *and* competition, the community *and* rugged individualism. The system of the highway gives order to the sensitive functions of exit and entrance, as well as to the image of the Strip as a sequential whole. It also generates places for individual enterprises to grow and controls the general direction of that growth. It allows variety and change along its sides and accommodates the contrapuntal, competitive order of the individual enterprises.

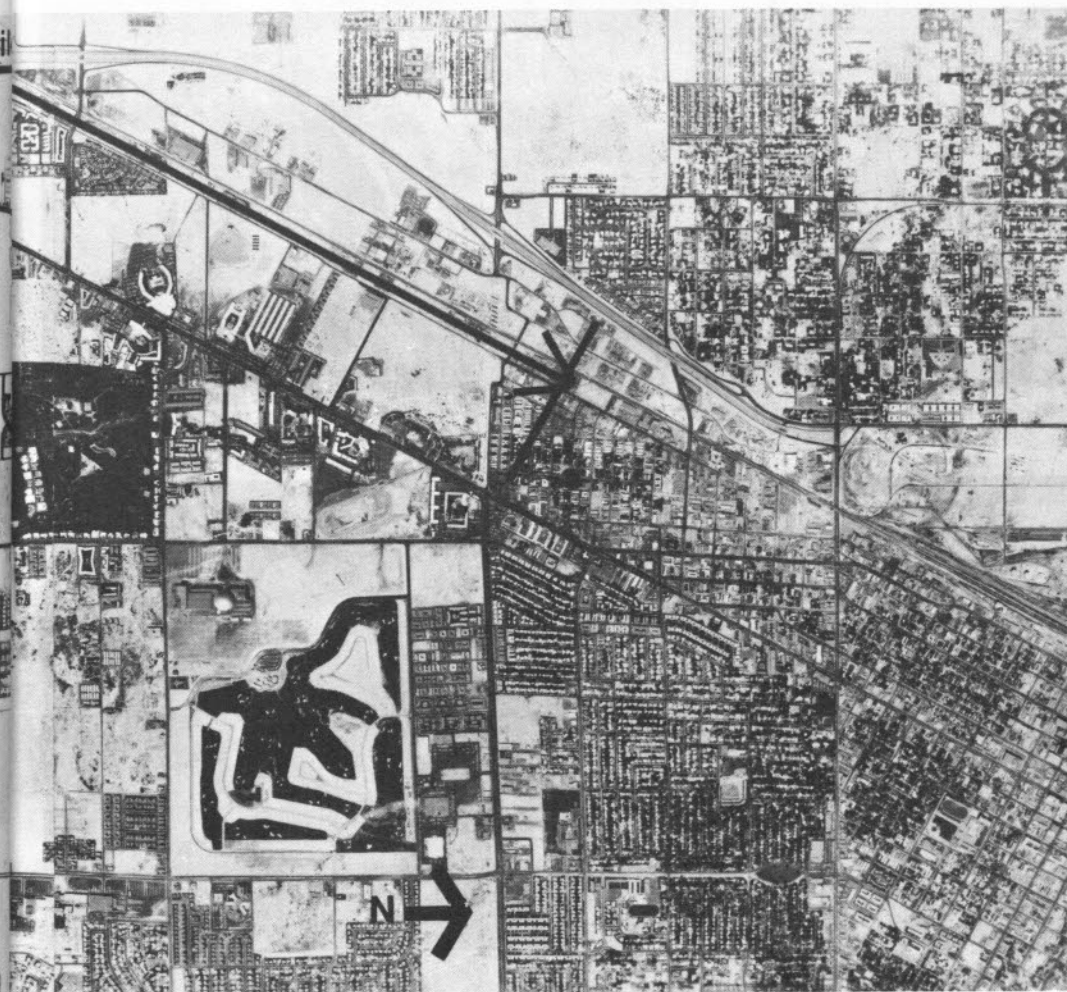
There is an order along the sides of the highway. Varieties of activities are juxtaposed on the Strip: service stations, minor motels, and multi-million-dollar casinos. Marriage chapels ("credit cards accepted") converted from bungalows with added neon-lined steeples are apt to appear anywhere toward the downtown end. Immediate proximity of related uses, as on Main Street, where you *walk* from one store to another, is

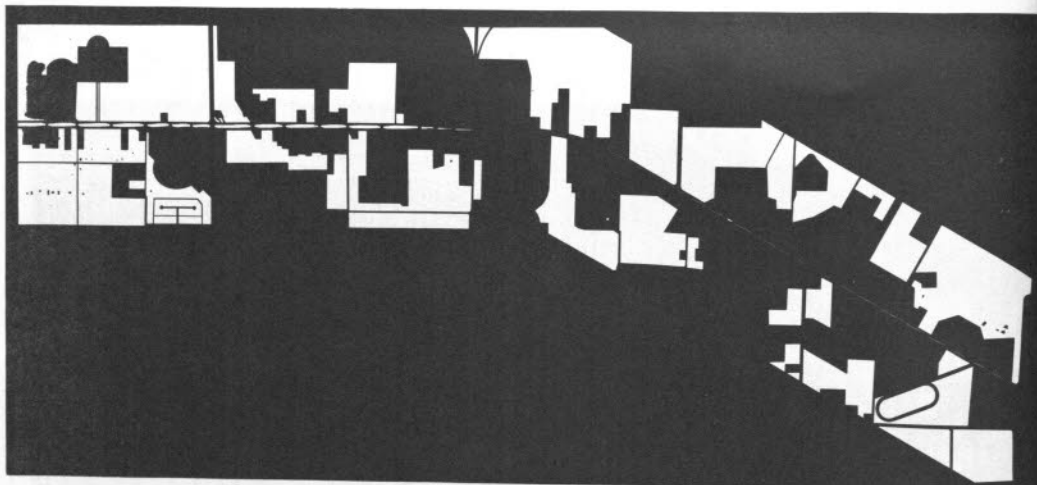


17. Nolli's Map of Rome (detail)

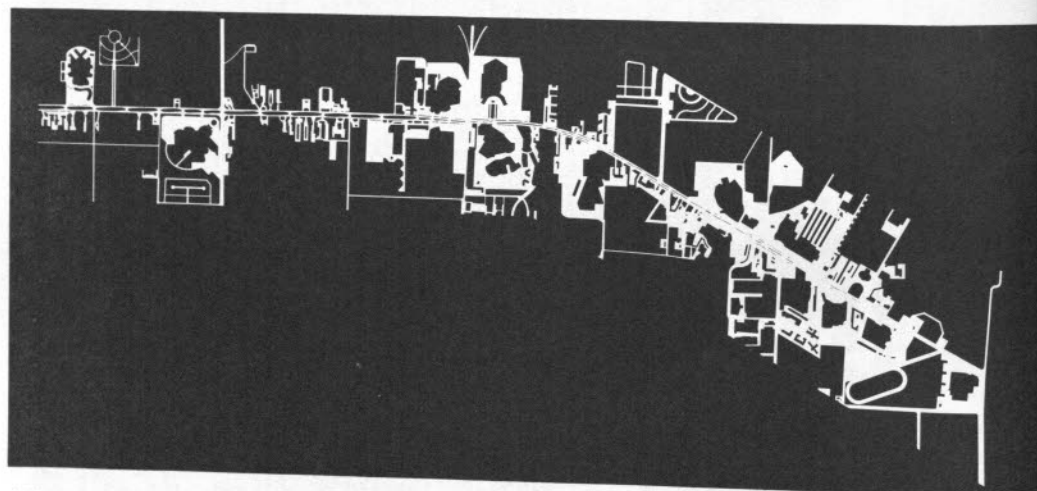


18. Aerial photograph of upper Strip

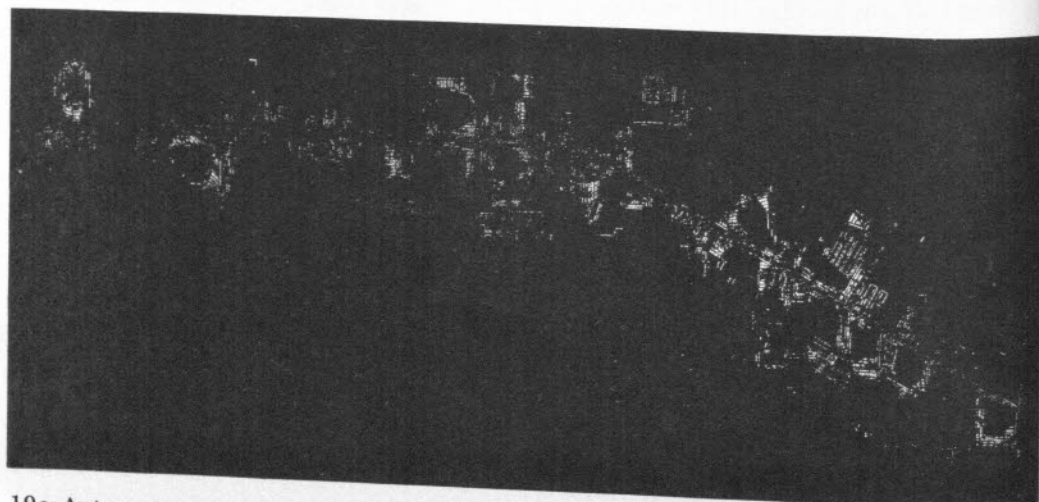




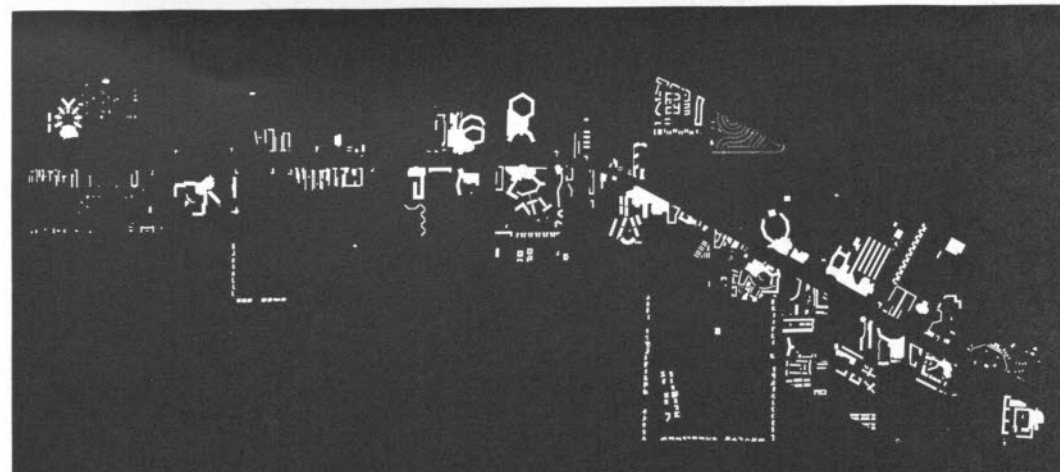
19a. Upper strip, undeveloped land



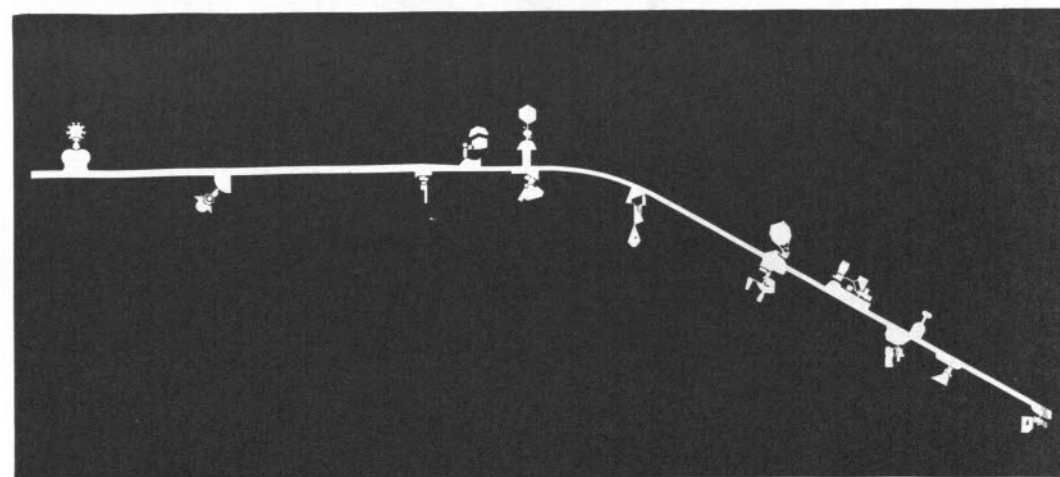
19b. Asphalt



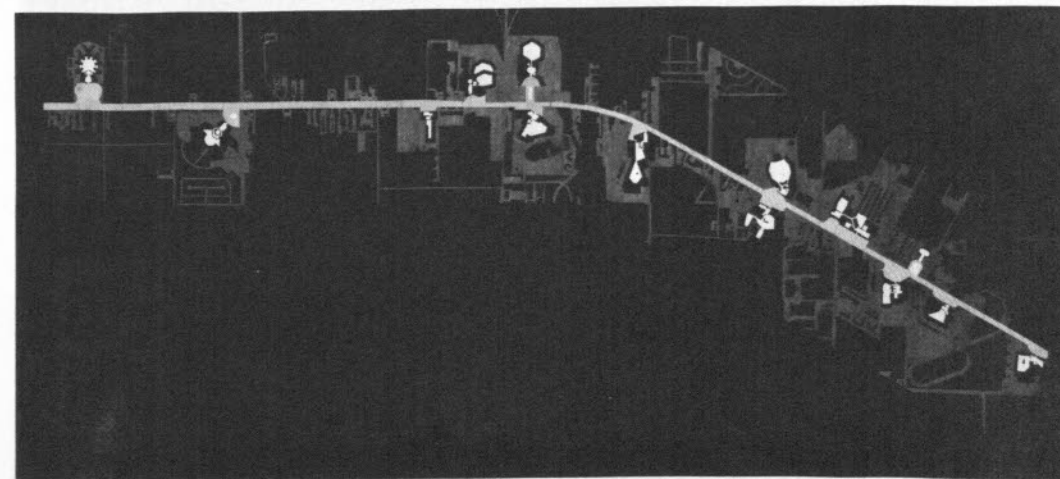
19c. Autos



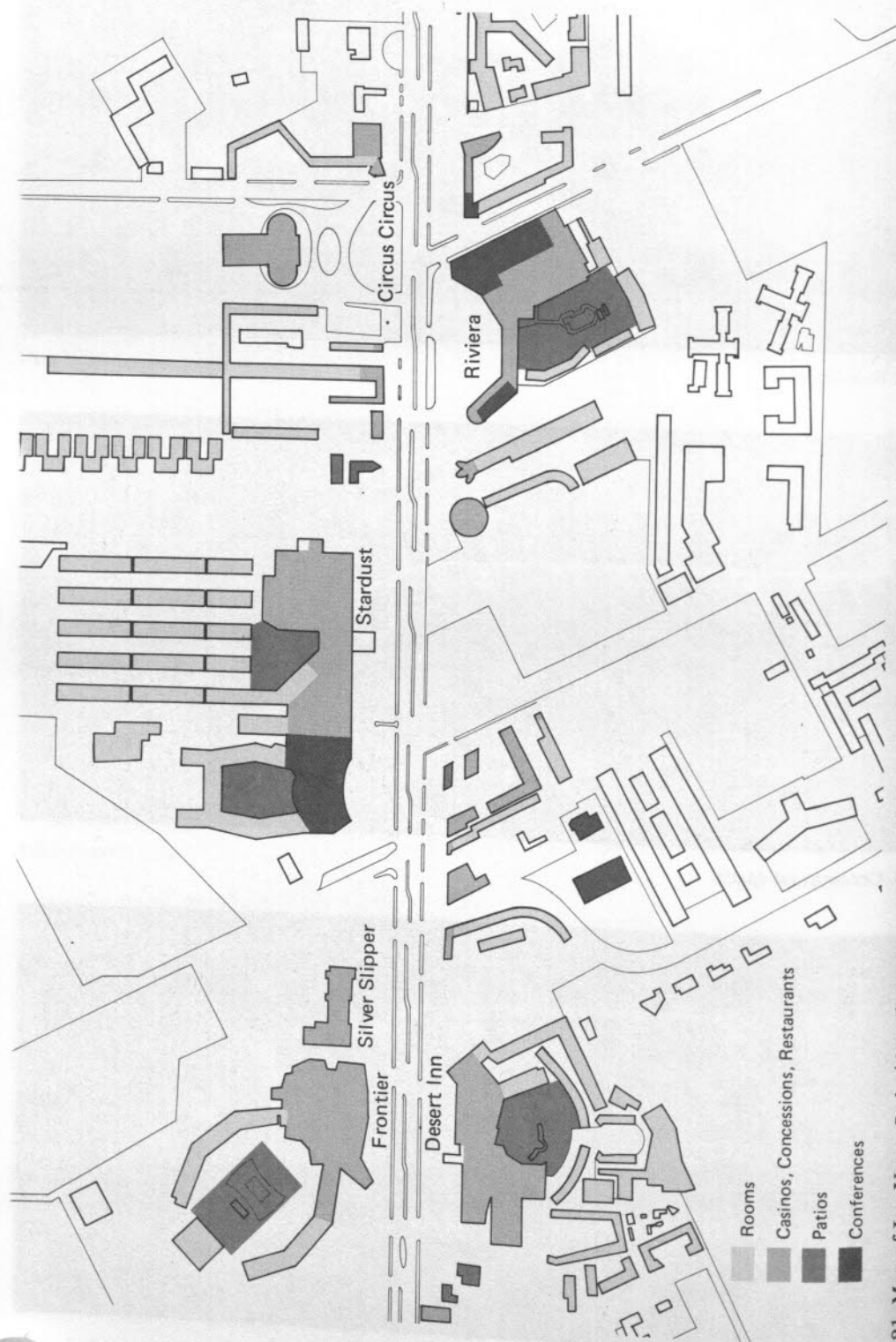
19d. Buildings



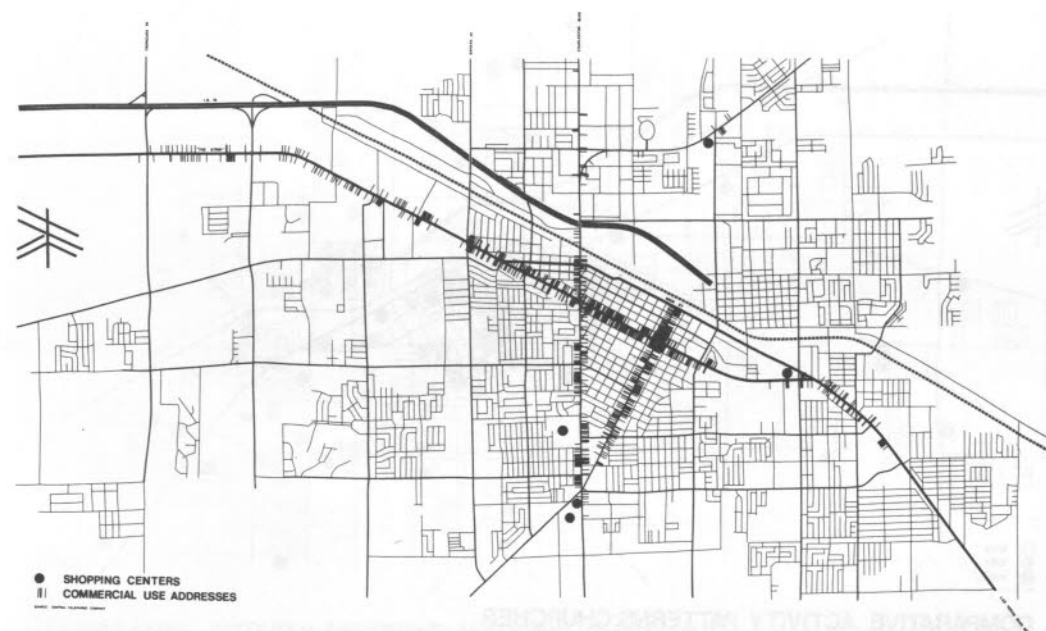
19e. Ceremonial space



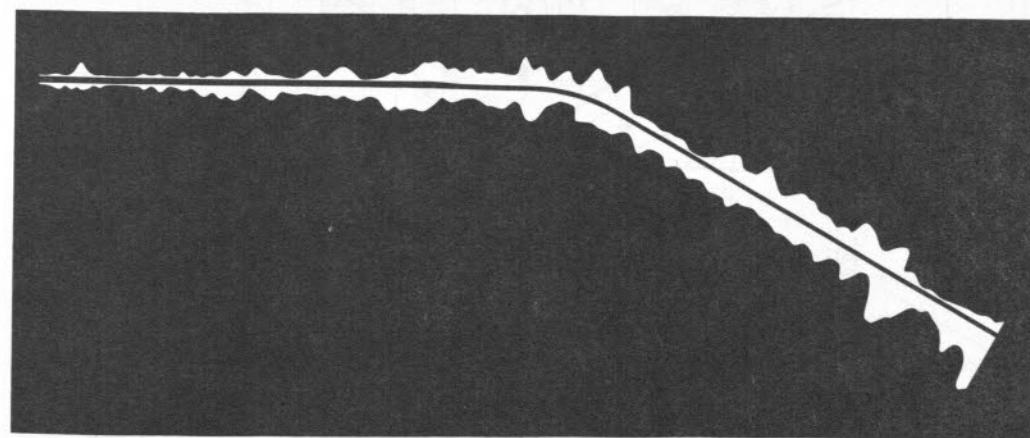
20. Nolli's Las Vegas



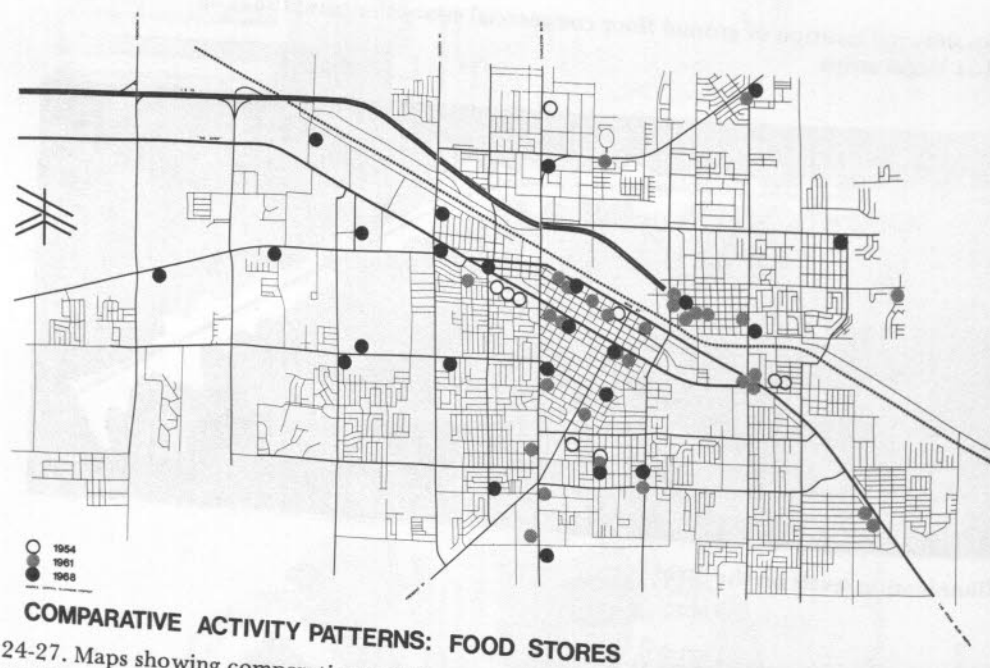
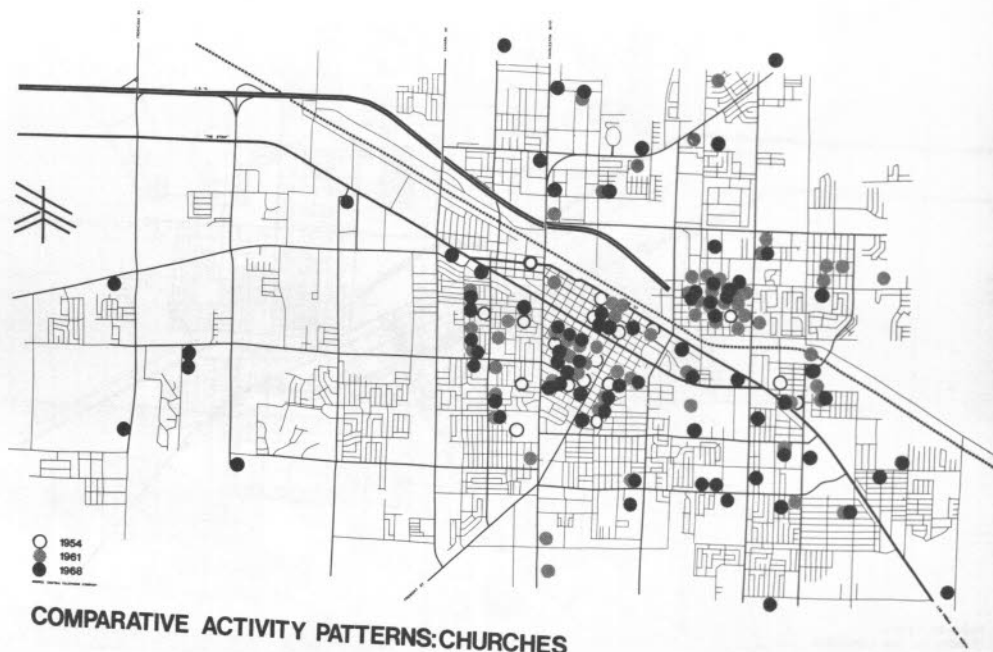
21. Map of Las Vegas Strip (detail) showing uses within buildings



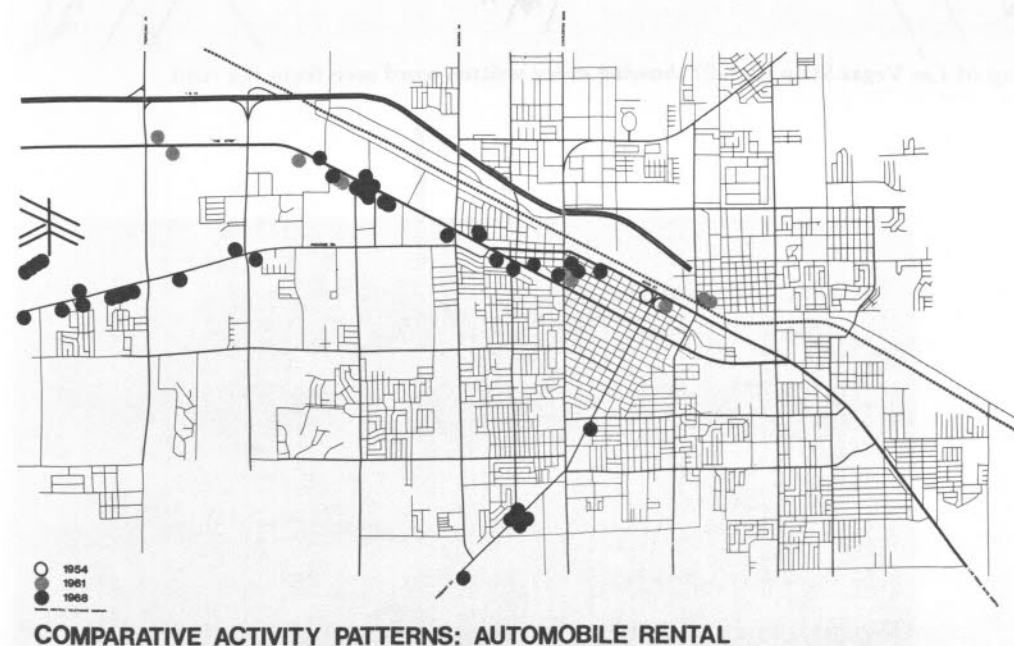
22. Map showing location of ground floor commercial establishments (1961) on three Las Vegas strips

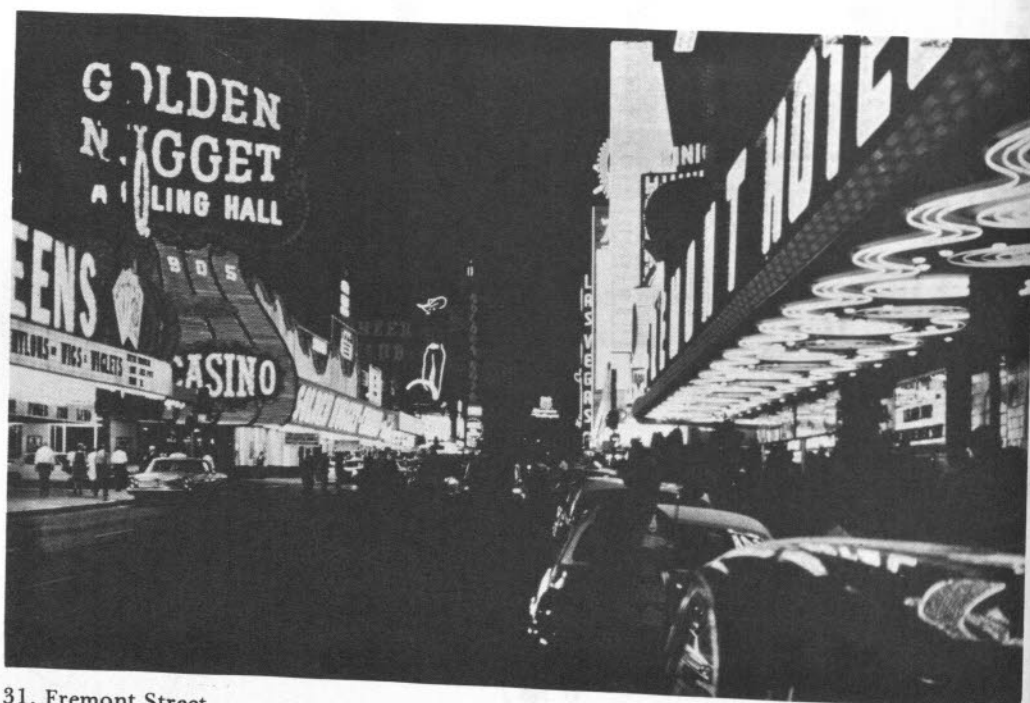


23. Illumination levels on the Strip

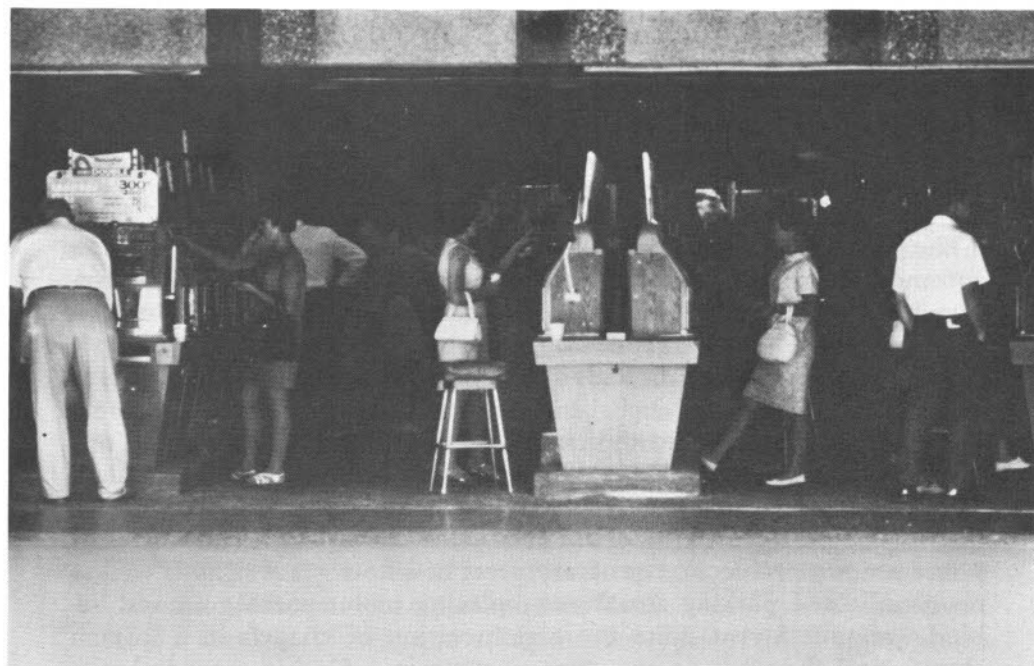


24-27. Maps showing comparative activity patterns: distribution of churches, food stores, wedding chapels, auto rentals





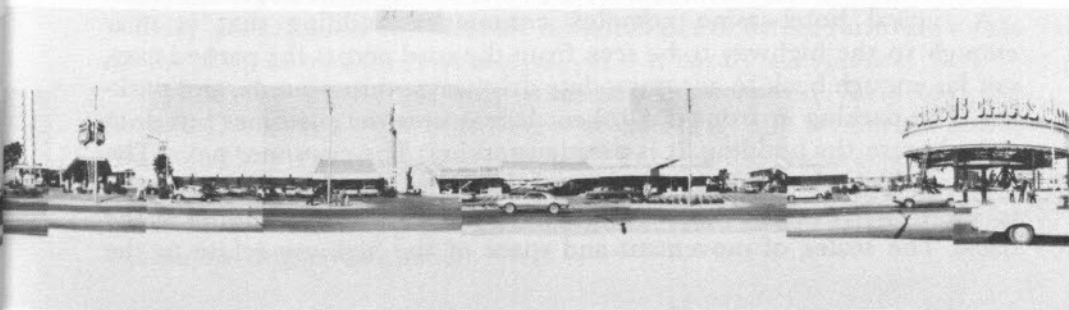
31. Fremont Street



32. Fremont Street casino entrance



33. A detail from an "Edward Ruscha" elevation of the Strip. Tourist maps are made of the Grand Canal and the Rhine showing the route lined by its palaces. Ruscha made one of the Sunset Strip. We imitated his for the Las Vegas Strip.



not required along the Strip because interaction is by car and highway. You *drive* from one casino to another even when they are adjacent because of the distance between them, and an intervening service station is not disagreeable.

CHANGE AND PERMANENCE ON THE STRIP

The rate of obsolescence of a sign seems to be nearer to that of an automobile than that of a building. The reason is not physical degeneration but what competitors are doing around you. The leasing system operated by the sign companies and the possibility of total tax write-off may have something to do with it. The most unique, most monumental parts of the Strip, the signs and casino facades, are also the most changeable; it is the neutral, systems-motel structures behind that survive a succession of facelifts and a series of themes up front. The Aladdin Hotel and Casino is Moorish in front and Tudor behind (Fig. 13).

Las Vegas's greatest growth has been since World War II (Figs. 37-40). There are noticeable changes every year: new hotels and signs as well as neon-embossed parking structures replacing on-lot parking on and behind Fremont Street. Like the agglomeration of chapels in a Roman church and the stylistic sequence of piers in a Gothic cathedral, the Golden Nugget casino has evolved over 30 years from a building with a sign on it to a totally sign-covered building (Fig. 41). The Stardust Hotel has engulfed a small restaurant and a second hotel in its expansion and has united the three-piece facade with 600 feet of computer-programmed animated neon.

§ THE ARCHITECTURE OF THE STRIP

It is hard to think of each flamboyant casino as anything but unique, and this is as it should be, because good advertising technique requires the differentiation of the product. However, these casinos have much in common because they are under the same sun, on the same Strip, and perform similar functions; they differ from other casinos—say, on Fremont Street—and from other hotels that are not casinos (Figs. 42, 43).

A typical hotel-casino complex contains a building that is near enough to the highway to be seen from the road across the parked cars, yet far enough back to accommodate driveways, turnarounds, and parking. The parking in front is a token: It reassures the customer but does not obscure the building. It is prestige parking: The customer pays. The bulk of the parking, along the sides of the complex, allows direct access to the hotel yet stays visible from the highway. Parking is seldom at the back. The scales of movement and space of the highway relate to the

distances between buildings; because they are far apart, they can be comprehended at high speeds. Front footage on the Strip has not yet reached the value it once had on Main Street, and parking is still an appropriate filler. Big space between buildings is characteristic of the Strip. It is significant that Fremont Street is more photogenic than the Strip. A single postcard can carry a view of the Golden Horseshoe, the Mint Hotel, the Golden Nugget, and the Lucky Casino. A single shot of the Strip is less spectacular; its enormous spaces must be seen as moving sequences (Figs. 44, 45).

The side elevation of the complex is important, because it is seen by approaching traffic from a greater distance and for a longer time than the facade. The rhythmic gables on the long, low, English medieval style, half-timbered motel sides of the Aladdin read emphatically across the parking space (Fig. 46) and through the signs and the giant statue of the neighboring Texaco station, and contrast with the modern Near Eastern flavor of the casino front. Casino fronts on the Strip often inflect in shape and ornament toward the right, to welcome right-lane traffic. Modern styles use a porte cochere that is diagonal in plan. Brazilianoid International styles use free forms.

Service stations, motels, and other simpler types of buildings conform in general to this system of inflection toward the highway through the position and form of their elements. Regardless of the front, the back of the building is styleless, because the whole is turned toward the front and no one sees the back. The gasoline stations parade their universality (Fig. 47). The aim is to demonstrate their similarity to the one at home—your friendly gasoline station. But here they are not the brightest thing in town. This galvanizes them. A motel is a motel anywhere (Fig. 48). But here the imagery is heated up by the need to compete in the surroundings. The artistic influence has spread, and Las Vegas motels have signs like no others. Their ardor lies somewhere between the casinos and the wedding chapels. Wedding chapels, like many urban land uses, are not form-specific (Fig. 49). They tend to be one of a succession of uses a more generalized building type (a bungalow or a store front) may have. But a wedding-chapel style or image is maintained in different types through the use of symbolic ornament in neon, and the activity adapts itself to different inherited plans. Street furniture exists on the Strip as on other city streets, yet it is hardly in evidence.

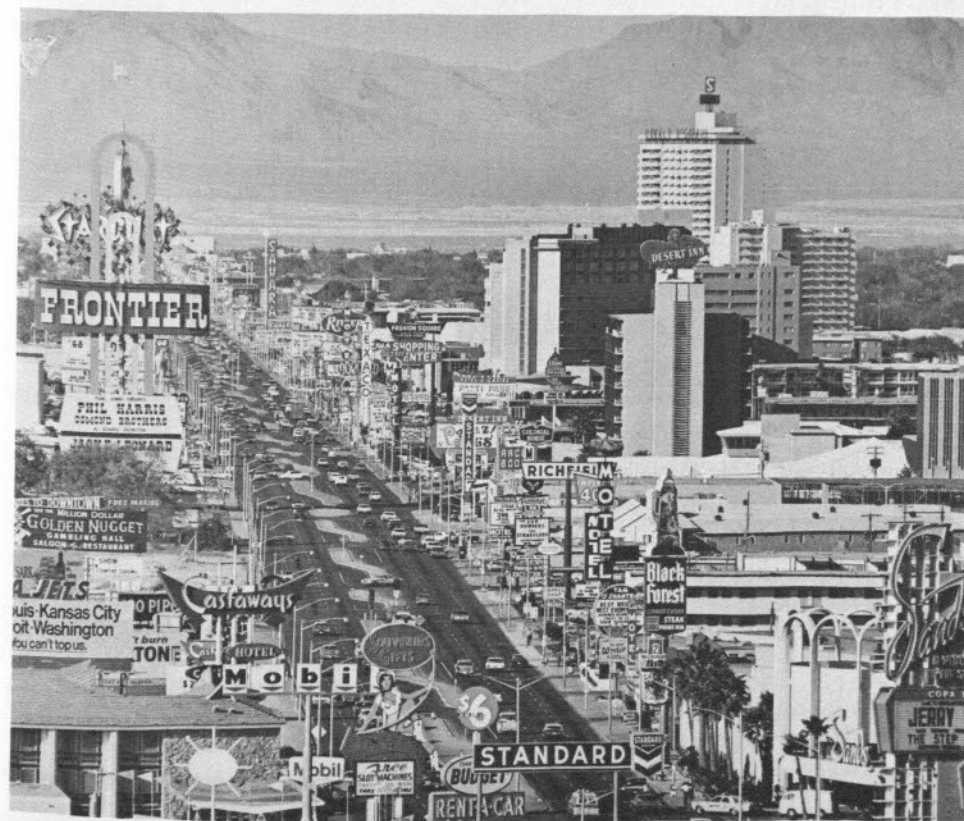
Beyond the town, the only transition between the Strip and the Mojave Desert is a zone of rusting beer cans (Fig. 50). Within the town, the transition is as ruthlessly sudden. Casinos whose fronts relate so sensitively to the highway turn their ill-kempt backsides toward the local environment, exposing the residual forms and spaces of mechanical equipment and service areas.



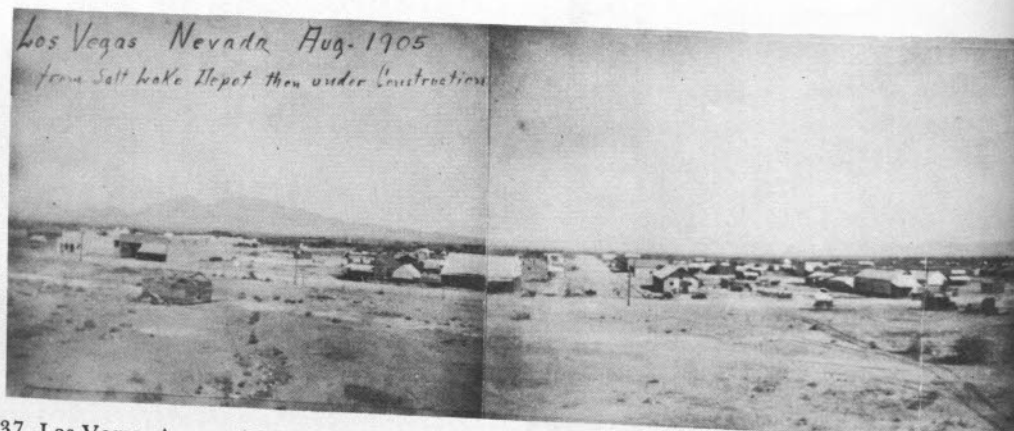
34. The order in this landscape is not obvious.



35. Streetlights, upper Strip



36. Upper Strip looking north



37. Las Vegas, August 1905



38. Las Vegas, Fremont Street, 1910



39. Las Vegas, Fremont Street, 1940s



40. Las Vegas, Fremont Street, 1960s

TYPES OF CHANGE

(A) Layerings of Facades & Plans
to expand spatially & stylistically

- (1) Stardust Hotel facade (by decades)
- (2) Gothic Cathedrals (by generations)

(B) Competitive Increases in Signs and Symbols

- (1) Las Vegas Signs
- (2) San Gimignano Towers

(C) The Strip becomes a Place

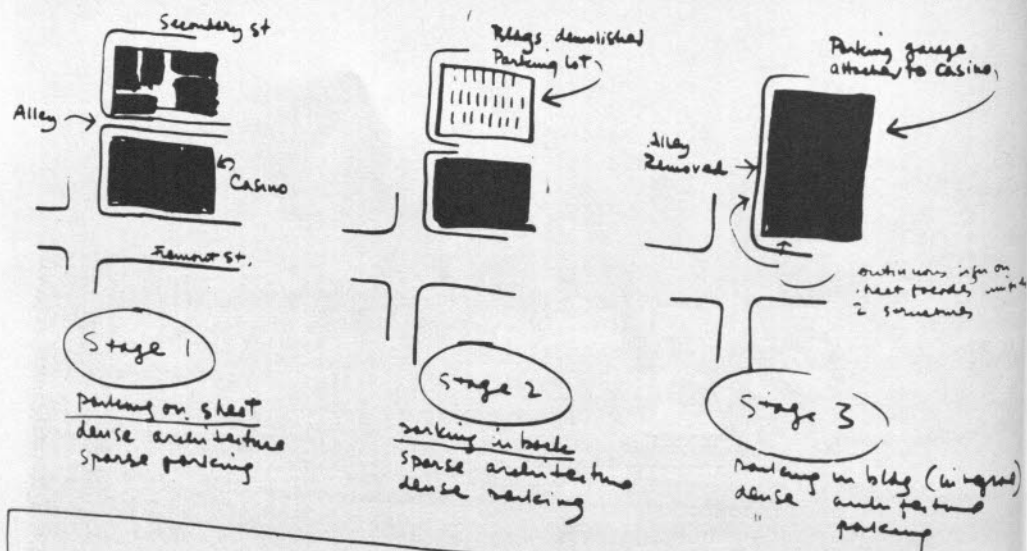
- (1) Convention Center & International Hotel
- (2) the Shopping Center

(D) Building becomes Sign

- (1) the Golden Nugget

(E) The Evolution of Parking on "Main Street"

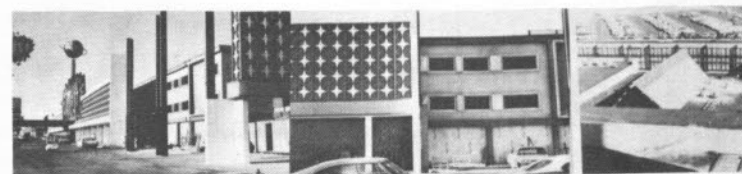
- (1) the golden nugget on Fremont



Change and Permanence

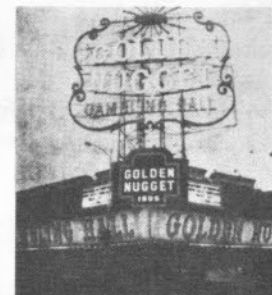
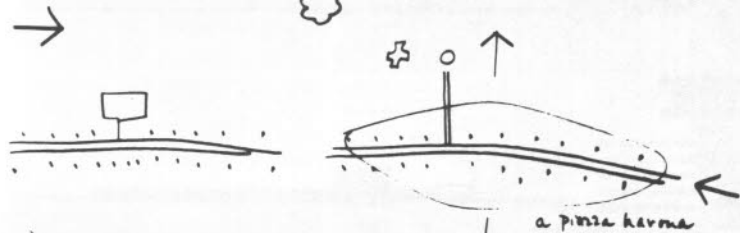
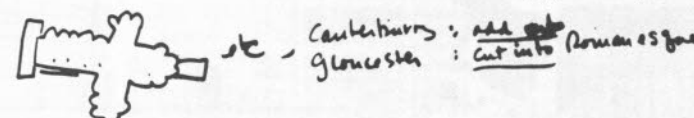


Before

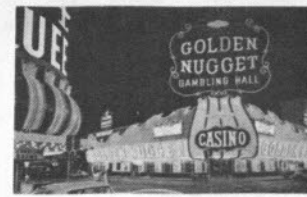


After

Continuity Reviv

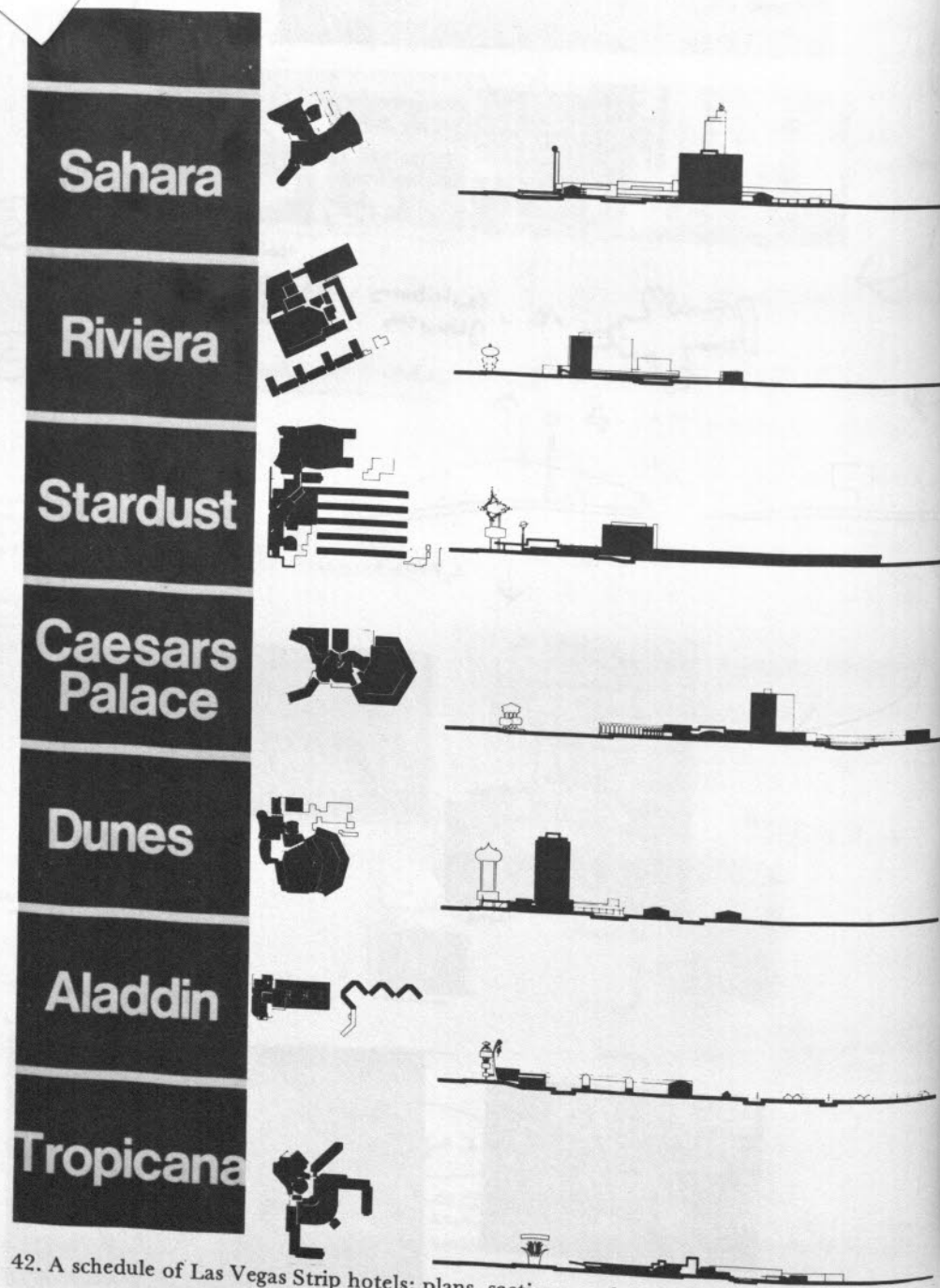


Before



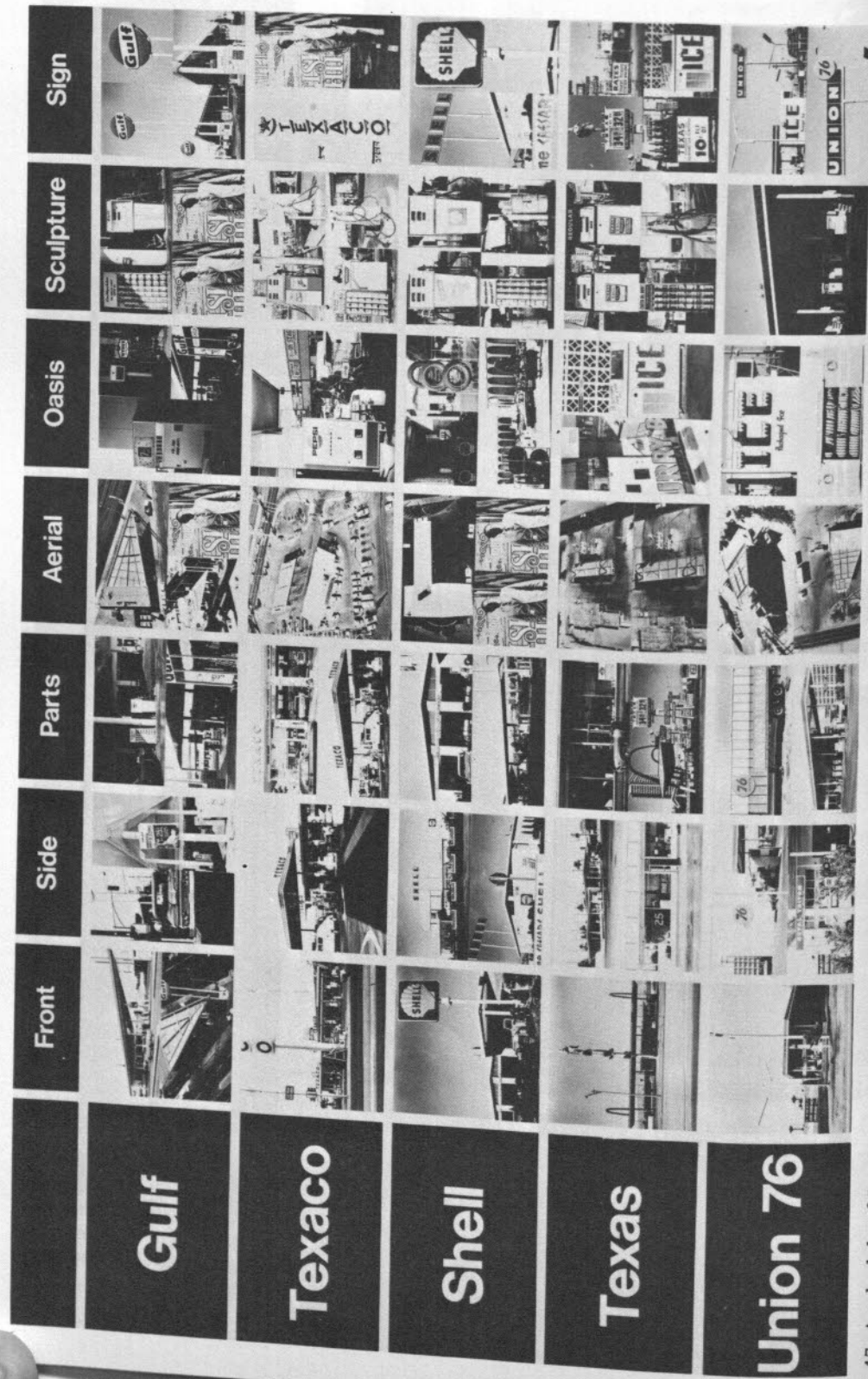
After





42. A schedule of Las Vegas Strip hotels: plans, sections, and elements





47. A schedule of Las Vegas Strip gas stations



48. A schedule of Las Vegas Strip motels



49. A schedule of Las Vegas Strip wedding chapels



50. The Strip from the desert

THE INTERIOR OASIS

If the back of the casino is different from the front for the sake of visual impact in the "autoscape," the inside contrasts with the outside for other reasons. The interior sequence from the front door back progresses from gambling areas to dining, entertainment, and shopping areas, to hotel. Those who park at the side and enter there can interrupt the sequence. But the circulation of the whole focuses on the gambling rooms. In a Las Vegas hotel the registration desk is invariably behind you when you enter the lobby; before you are the gambling tables and machines. The lobby is the gambling room. The interior space and the patio, in their exaggerated separation from the environment, have the quality of an oasis.

§ LAS VEGAS LIGHTING

The gambling room is always very dark; the patio, always very bright. But both are enclosed: The former has no windows, and the latter is open only to the sky. The combination of darkness and enclosure of the gambling room and its subspaces makes for privacy, protection, concentration, and control. The intricate maze under the low ceiling never connects with outside light or outside space. This disorients the occupant in space and time. One loses track of where one is and when it is. Time is limitless, because the light of noon and midnight are exactly the same. Space is limitless, because the artificial light obscures rather than defines its boundaries (Fig. 51). Light is not used to define space. Walls and ceilings do not serve as reflective surfaces for light but are made absorbent and dark. Space is enclosed but limitless, because its edges are dark. Light sources, chandeliers, and the glowing, jukebox-like gambling machines themselves are independent of walls and ceilings. The lighting is antiarchitectural. Illuminated *baldacchini*, more than in all Rome, hover over tables in the limitless shadowy restaurant at the Sahara Hotel.

The artificially lit, air-conditioned interiors complement the glare and heat of the agoraphobic auto-scaled desert. But the interior of the motel patio behind the casino is literally the oasis in a hostile environment (Fig. 52). Whether Organic Modern or Neoclassical Baroque, it contains the fundamental elements of the classic oasis: courts, water, greenery, intimate scale, and enclosed space. Here they are a swimming pool, palms, grass, and other horticultural importations set in a paved court surrounded by hotel suites, balconied or terraced on the court side for privacy. What gives poignance to the beach umbrellas and chaises longues is the vivid, recent memory of the hostile cars poised in the asphalt desert beyond. The pedestrian oasis in the Las Vegas desert

is the princely enclosure of the Alhambra, and it is the apotheosis of all the motel courts with swimming pools more symbolic than useful, the plain, low restaurants with exotic interiors, and the pretty shopping malls of the American strip.

§ ARCHITECTURAL MONUMENTALITY AND THE BIG, LOW SPACE

The casino in Las Vegas is big, low space. It is the archetype for all public interior spaces whose heights are diminished for reasons of budget and air conditioning. (The low, one-way-mirrored ceilings also permit outside observation of the gambling rooms.) In the past, volume was governed by structural span; height was relatively easy to achieve. Today, span is easy to achieve, and volume is governed by mechanical and economic limitations on height. But railroad stations, restaurants, and shopping arcades only ten feet high reflect as well a changing attitude to monumentality in our environment. In the past, big spans with their concomitant heights were an ingredient of architectural monumentality (Fig. 53). But our monuments are not the occasional tour de force of an Astrodome, a Lincoln Center, or a subsidized airport. These merely prove that big, high spaces do not automatically make architectural monumentality. We have replaced the monumental space of Pennsylvania Station by a subway above ground, and that of Grand Central Terminal remains mainly through its magnificent conversion to an advertising vehicle. Thus, we rarely achieve architectural monumentality when we try; our money and skill do not go into the traditional monumentality that expressed cohesion of the community through big-scale, unified, symbolic, architectural elements. Perhaps we should admit that our cathedrals are the chapels without the nave and that, apart from theaters and ball parks, the occasional communal space that is big is a space for crowds of anonymous individuals without explicit connection with each other. The big, low mazes of the dark restaurant with alcoves combine being together and yet separate as does the Las Vegas casino. The lighting in the casino achieves a new monumentality for the low space. The controlled sources of artificial and colored light within the dark enclosures expand and unify the space by obscuring its physical limits. You are no longer in the bounded piazza but in the twinkling lights of the city at night.

§ LAS VEGAS STYLES

The Las Vegas casino is a combination form. The complex program of Caesars Palace—one of the grandest—includes gambling, dining and banqueting rooms, nightclubs and auditoria, stores, and a complete

hotel. It is also a combination of styles. The front colonnade is San Pietro-Bernini in plan but Yamasaki in vocabulary and scale (Figs. 54, 55); the blue and gold mosaic work is Early Christian tomb of Galla Placidia. (The Baroque symmetry of its prototype precludes an inflection toward the right in this facade.) Beyond and above is a slab in Gio Ponti Pirelli-Baroque, and beyond that, in turn, a low wing in Neo-classical Motel Moderne. Economics has vanquished symmetry in a recent addition. But the new slab and the various styles are integrated by a ubiquity of Ed Stone screens. The landscaping is also eclectic. Within the Piazza San Pietro is the token parking lot. Among the parked cars rise five fountains rather than the two of Carlo Maderno; Villa d'Este cypresses further punctuate the parking environment. Gian de Bologna's *Rape of the Sabine Women* and statues of Venus and David, with slight anatomical exaggerations, grace the area around the porte cochere. Almost bisecting a Venus is an Avis, a sign identifying No. 2's offices on the premises (Figs. 56-58).

The agglomeration of Caesars Palace and of the Strip as a whole approaches the spirit if not the style of the late Roman Forum with its eclectic accumulations. But the sign of Caesars Palace with its Classical, plastic columns is more Etruscan in feeling than Roman (Figs. 59, 60). Although not so high as the Dunes Hotel sign next door or the Shell sign on the other side, its base is enriched by Roman centurions, (Fig. 61) lacquered like Oldenburg hamburgers, who peer over the acres of cars and across their desert empire to the mountains beyond. Their statuesque escorts, carrying trays of fruit, suggest the festivities within and are a background for the family snapshots of Middle Westerners. Massive Miesian light boxes announce square, expensive entertainers such as Jack Benny in 1930s-style marquee lettering appropriate for Benny if not for the Roman architrave it almost ornaments. The light boxes are not in the architrave; they are located off-center on the columns in order to inflect toward the highway and the parking.

§ LAS VEGAS SIGNS

Signs inflect toward the highway even more than buildings. The big sign—independent of the building and more or less sculptural or pictorial—inflects by its position, perpendicular to and at the edge of the highway, by its scale, and sometimes by its shape. The sign of the Aladdin Hotel and Casino seems to bow toward the highway through the inflection in its shape (Fig. 62). It also is three dimensional, and parts of it revolve. The sign at the Dunes Hotel is more chaste: It is only two dimensional, and its back echoes its front, but it is an erection 22 stories high that pulsates at night (Fig. 63). The sign for The Mint Hotel on Route 91 at Fremont Street inflects toward the Casino several

blocks away. Signs in Las Vegas use mixed media—words, pictures, and sculpture—to persuade and inform. A sign is, contradictorily, for day and night. The same sign works as polychrome sculpture in the sun and as black silhouette against the sun; at night it is a source of light. It revolves by day and becomes a play of lights at night (Figs. 64-67). It contains scales for close-up and for distance (Fig. 68). Las Vegas has the longest sign in the world, the Thunderbird, and the highest, the Dunes. Some signs are hardly distinguishable at a distance from the occasional high-rise hotels along the Strip. The sign of the Pioneer Club on Fremont Street talks. Its cowboy, 60 feet high, says "Howdy Pardner" every 30 seconds. The big sign at the Aladdin Hotel has spawned a little sign with similar proportions to mark the entrance to the parking. "But such signs!" says Tom Wolfe. "They soar in shapes before which the existing vocabulary of art history is helpless. I can only attempt to supply names—Boomerang Modern, Palette Curvilinear, Flash Gordon Ming-Alert Spiral, McDonald's Hamburger Parabola, Mint Casino Elliptical, Miami Beach Kidney."³ Buildings are also signs. At night on Fremont Street, whole buildings are illuminated but not through reflection from spotlights; they are made into sources of light by closely spaced neon tubes. Amid the diversity, the familiar Shell and Gulf signs stand out like friendly beacons in a foreign land. But in Las Vegas they reach three times higher into the air than at your local service station to meet the competition of the casinos.

§ INCLUSION AND THE DIFFICULT ORDER

Henri Bergson called disorder an order we cannot see. The emerging order of the Strip is a complex order. It is not the easy, rigid order of the urban renewal project or the fashionable "total design" of the megastructure. It is, on the contrary, a manifestation of an opposite direction in architectural theory: Broadacre City—a travesty of Broadacre City, perhaps, but a kind of vindication of Frank Lloyd Wright's predictions for the American landscape. The commercial strip within the urban sprawl is, of course, Broadacre City with a difference. Broadacre City's easy, motival order identified and unified its vast spaces and separate buildings at the scale of the omnipotent automobile. Each building, without doubt, was to be designed by the Master or by his Taliesin Fellowship, with no room for honky-tonk improvisations. An easy control would be exercised over similar elements within the universal, Usonian vocabulary to the exclusion, certainly, of commercial vulgarities. But the order of the Strip *includes*; it includes at all levels, from the mixture of seemingly incongruous land uses to the mixture of

3. Tom Wolfe, *The Kandy-Colored Tangerine-Flake Streamline Baby* (New York: Noonday Press, 1966), p. 8.

seemingly incongruous advertising media plus a system of neo-Organic or neo-Wrightian restaurant motifs in Walnut Formica (Fig. 69). It is not an order dominated by the expert and made easy for the eye. The moving eye in the moving body must work to pick out and interpret a variety of changing, juxtaposed orders, like the shifting configurations of a Victor Vasarely painting (Fig. 70). It is the unity that "maintains, but only just maintains, a control over the clashing elements which compose it. Chaos is very near; its nearness, but its avoidance, gives . . . force."⁴

§ IMAGE OF LAS VEGAS: INCLUSION AND ALLUSION IN ARCHITECTURE

Tom Wolfe used Pop prose to suggest powerful images of Las Vegas. Hotel brochures and tourist handouts suggest others (Fig. 71). J. B. Jackson, Robert Riley, Edward Ruscha, John Kouwenhoven, Reyner Banham, and William Wilson have elaborated on related images. For the architect or urban designer, comparisons of Las Vegas with others of the world's "pleasure zones" (Fig. 72)—with Marienbad, the Alhambra, Xanadu, and Disneyland, for instance—suggest that essential to the imagery of pleasure-zone architecture are lightness, the quality of being an oasis in a perhaps hostile context, heightened symbolism, and the ability to engulf the visitor in a new role: for three days one may imagine oneself a centurion at Caesars Palace, a ranger at the Frontier, or a jetsetter at the Riviera rather than a salesperson from Des Moines, Iowa, or an architect from Haddonfield, New Jersey.

However, there are didactic images more important than the images of recreation for us to take home to New Jersey and Iowa: one is the Avis with the Venus; another, Jack Benny under a classical pediment with Shell Oil beside him, or the gasoline station beside the multimillion-dollar casino. [These show the vitality that may be achieved by an architecture of inclusion or, by contrast, the deadness that results from too great a preoccupation with tastefulness and total design.] The Strip shows the value of symbolism and allusion in an architecture of vast space and speed and proves that people, even architects, have fun with architecture that reminds them of something else, perhaps of harems or the Wild West in Las Vegas, perhaps of the nation's New England forebears in New Jersey. Allusion and comment, on the past or present or on our great commonplaces or old clichés, and inclusion of the everyday in the environment, sacred and profane—these are what are lacking in present-day Modern architecture. We can learn about them from Las Vegas as have other artists from their own profane and stylistic sources.

4. August Heckscher, *The Public Happiness* (New York: Atheneum Publishers, 1962), p. 289.



51. Caesars Palace tourist brochure



52. Caesars Palace oasis

OLD monumentality

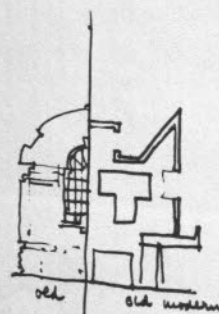
The nave

The big

- ① HIGH
- ② LIT and WINDOWED
- ③ OPEN
- ④ SPACE
- ⑤ UNCLUTTERED

for communal crowds

- ① High for monumentality
- ② Lit and windowed: natural & simulated daylight falls on walls to clarify the great architecture
- ③ Open: to let natural light in and lately to integrate the inside & outside
- ④ Space: spaciousness for communal crowds
- ⑤ Uncluttered: don't clutter up the great architecture



Part of Topic 8 (Building types)

THE ROADSIDE INTERIOR

53. Architectural monumentality and the roadside interior

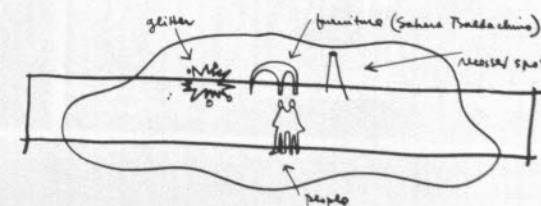
NEW monumentality

The chapels without the nave

The big

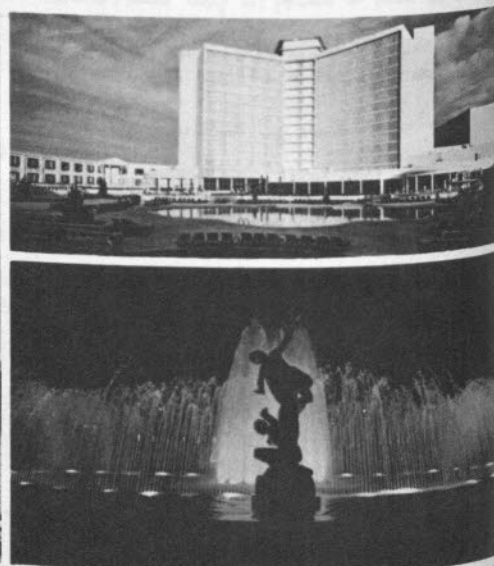
- ① LOW
 - ② GLITTERING-in-the-DARK
 - ③ ENCLOSED
 - ④ MAZE of
 - ⑤ ALCOVES and
 - ⑥ FURNITURE
- for separate people

- ① Low for economy of air conditioning
- ② Glittering-in-the-Dark: perimeters dark in value, absorbent in texture to obscure extent and character of the architectural enclosure. Glittering light sources - mainly ornamental - and recessed ceiling spots to light people and furniture and not architecture.
- ③ Enclosed to exclude the outside to engender a different style and role inside
- ④ Maze for crowds of anonymous individuals without to elicit connections with each other
- ⑤ Alcoves: people are together and yet separate
- ⑥ Furniture: objects and symbols dominate architecture.





54. Caesars Palace



The grandeur that was Rome...

I, CAESAR... command your attention to beauty and wonders beyond even the wildest dreams of any Roman Emperor! Truly a Palace of Pleasure! In the vital heart of pulsating Las Vegas this exciting and lush oasis is breathtaking to behold... lavished with gleaming statuary, gorgeous gardens and fabulous fountains! A mighty retinue of toga-clad palace attendants eagerly await your every summons! Come, indulge yourself!



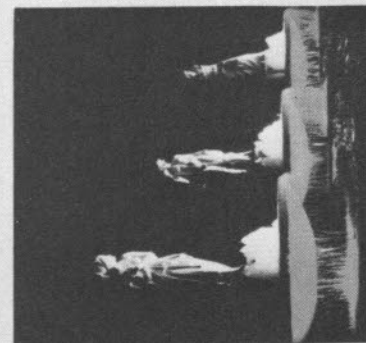
55. Caesars Palace tourist brochure

STATUARY AT CAESARS PALACE

CAESARS PALACE takes pride in presenting these magnificently achieved Carrara marble statues, imported from Italy and representing some of the greatest art treasures of modern man.

In tribute to a Roman patron Michaelangelo once observed that the artist and sculptor created their art works to sate their own needs and hungers, but that those who glorified the works of others by displaying these treasures were the most noble of all men, since they were perpetuating a culture for all the world.

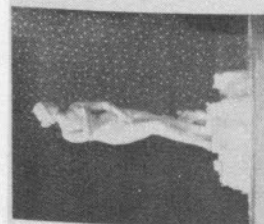
The brilliant contemporary sculptor, Sir Henry Moore, said: "Sculpture is an art of free space. It needs daylight, sunlight. Nature seems to be its best setting..." In recognition of this, the CAESARS PALACE landscaping and architecture were designed to achieve the most effective and beautiful setting for these great works of art.



The statues on display at CAESARS PALACE are carved in sparkling white Carrara marble, cut from the mountain in Italy from which Michaelangelo took his stone.

CAESARS PALACE

THE LAS VEGAS ARTS CENTER • LAS VEGAS, NEVADA 89109

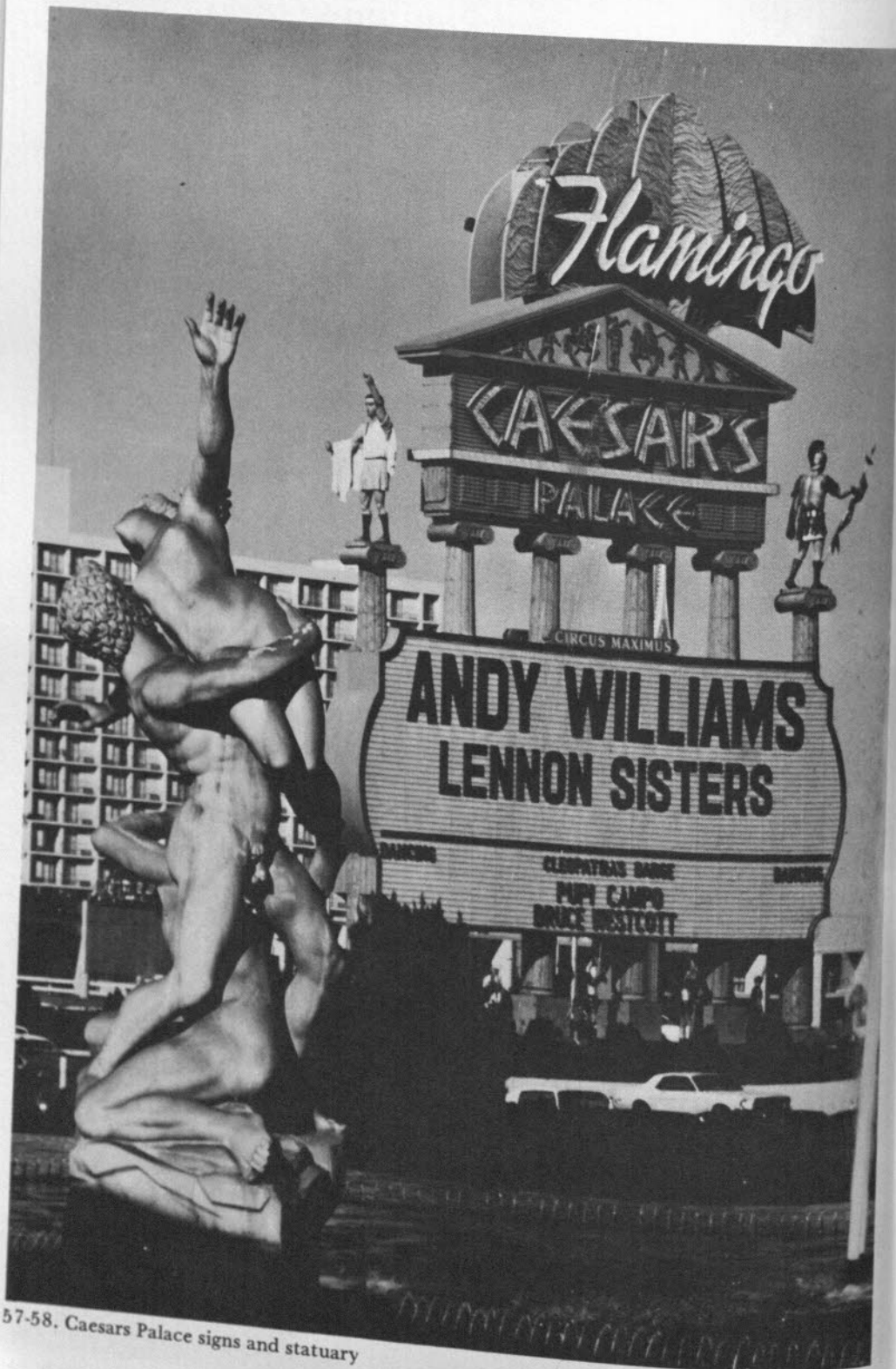


VENUS DE MEDICI, by Cleomenes, carved about 100 B.C., is an extraordinary example of the Hellenistic art. The inspiration for this famous statue of the Goddess attempting to cover her nakedness was the Venus of Chidus, and was commissioned by the Medici family. The Medici ruled the city of Florence during the days of the Renaissance. It was a time of great scientific and artistic achievement, and the subsidized number of talented painters and sculptors. This Venus now stands in Galleria Uffizi, in Florence, Italy.

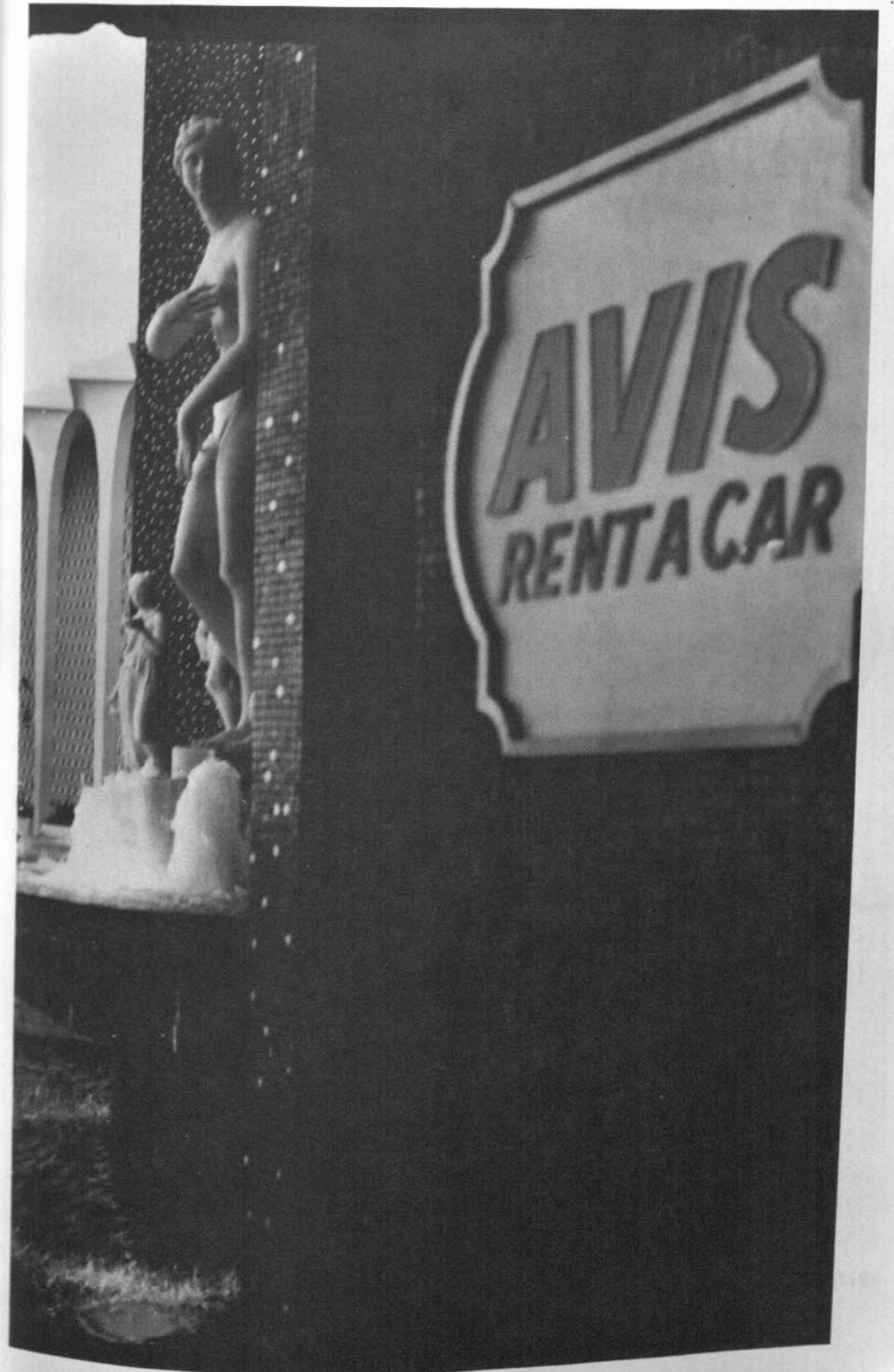


VICTORY AT SAMOTHRACE, by an unknown sculptor, was created about 300 B.C. This winged figure of victory, discovered in the Aegean island of Samothrace, was originally designed for the temple of Aphrodite. The statue, by its nobility and beauty, has become a masterpiece, and is honored by being given a place of special distinction in the famous Louvre Museum, in Paris, France.

56. Caesars Palace tourist brochure



57-58. Caesars Palace signs and statuary





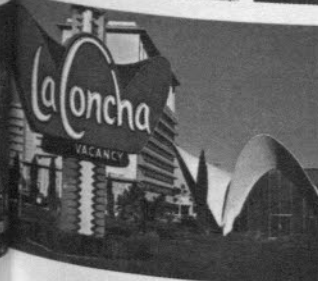
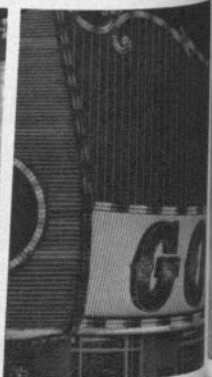
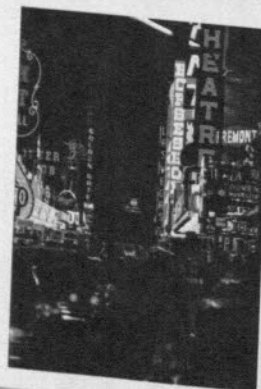
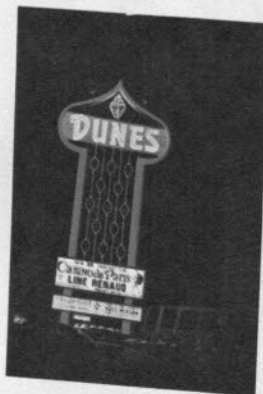
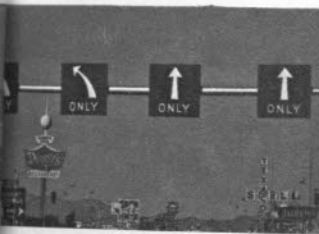
59. Caesars Palace sign



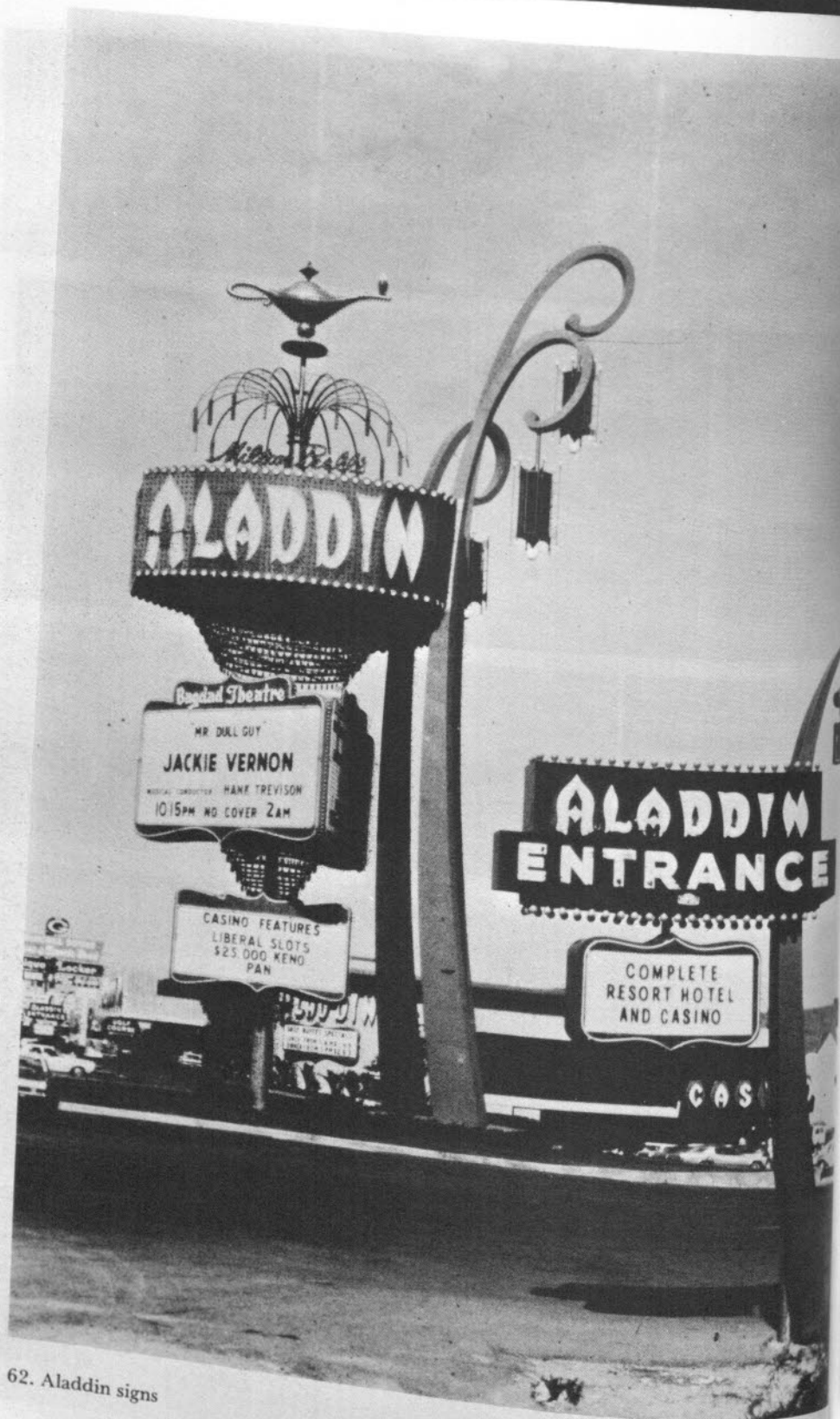
60. Piranesi's Pantheon/Caesars Palace sign



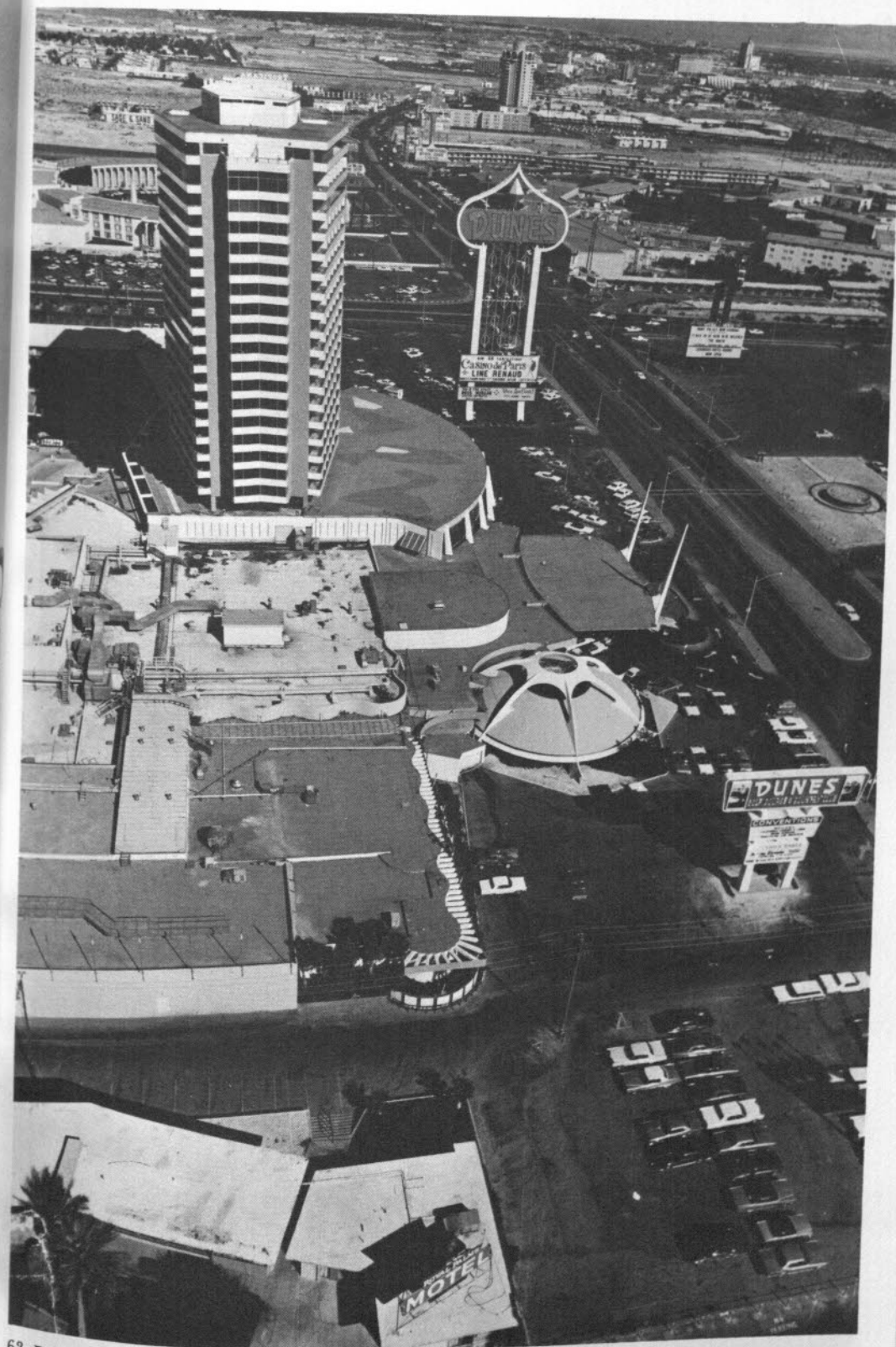
61. Caesars Palace centurions



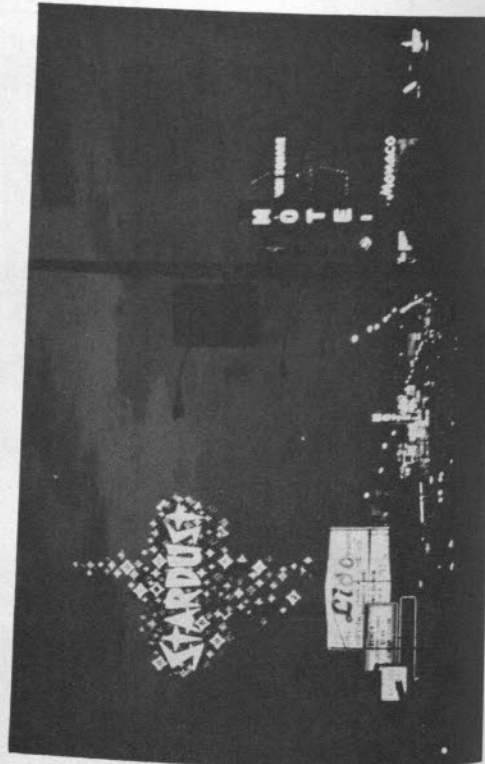
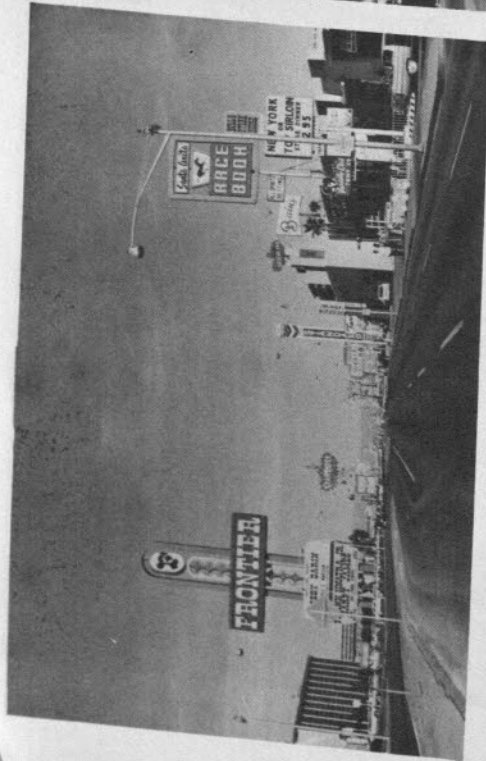
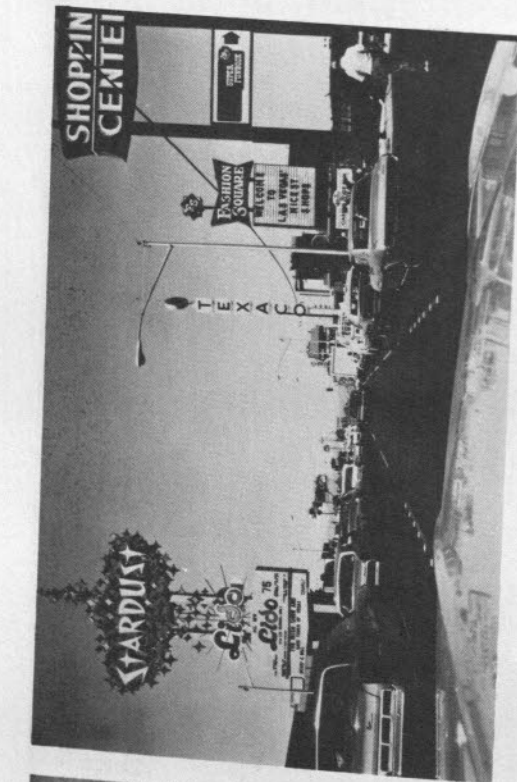
Las Vegas signs and buildings



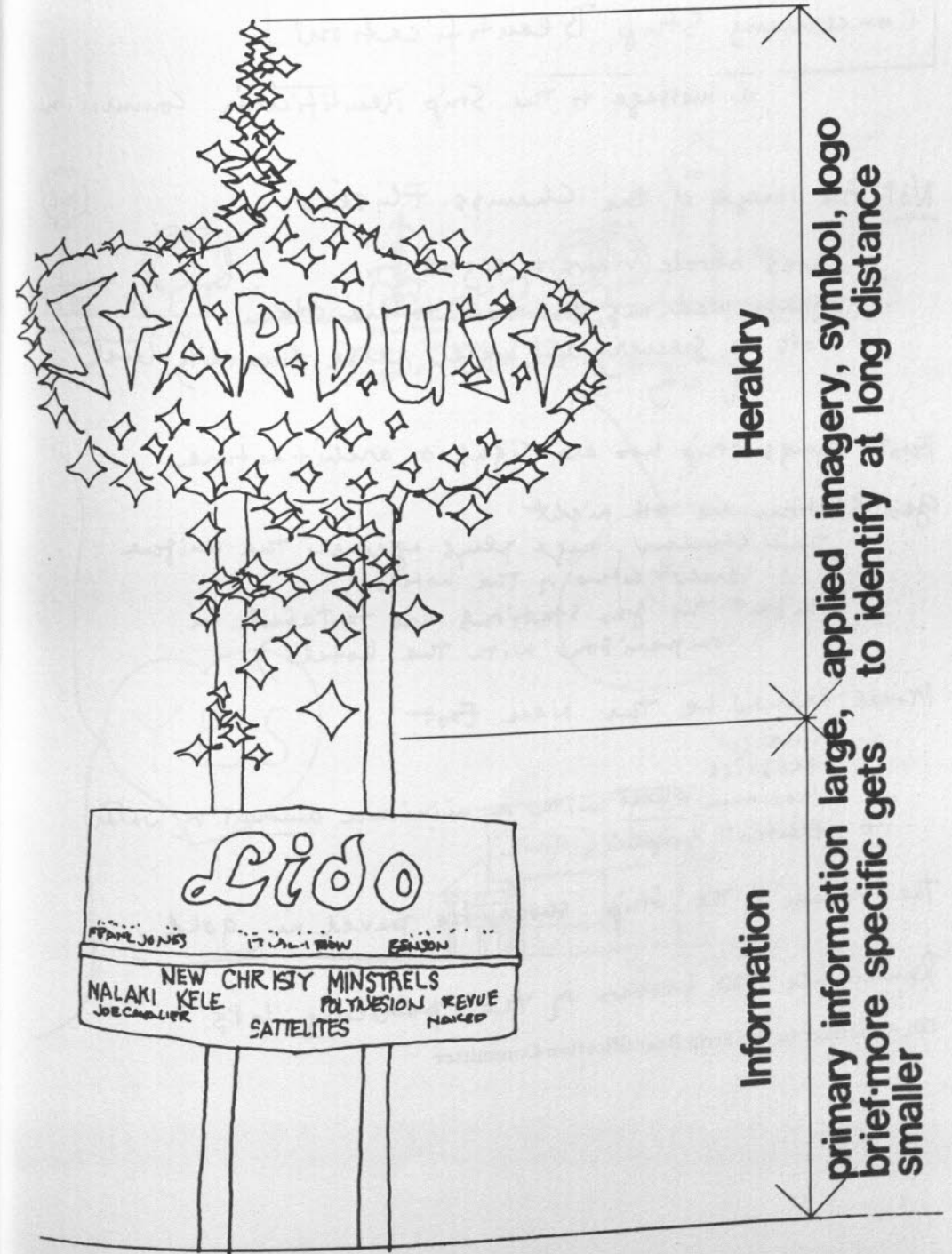
62. Aladdin signs



63. Dunes hotel and signs



64-67. Stardust sign



68. Physiognomy of a typical casino sign

Concerning Strip Beautification

a message to the Strip Beautification Committee

Not the image of the Champs Elysées

trees block views of signs
grass medians are hard to maintain
lots of greenery and water raise humidity level of city

Best things strip has are signs & architecture

gas stations are all right
their standard image plays against the unique architecture of the hotels
(in fact the gas stations are tasteful in comparison with the hotels)

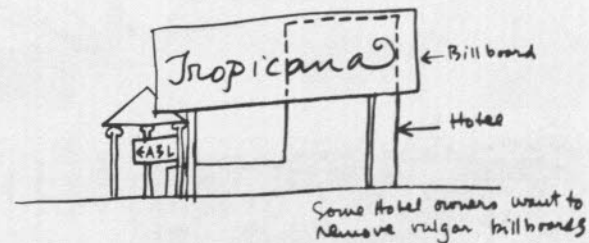
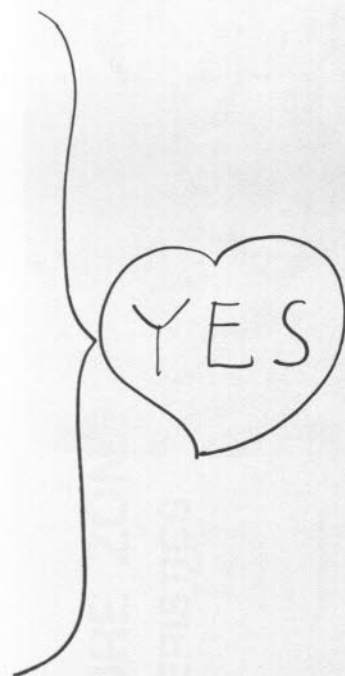
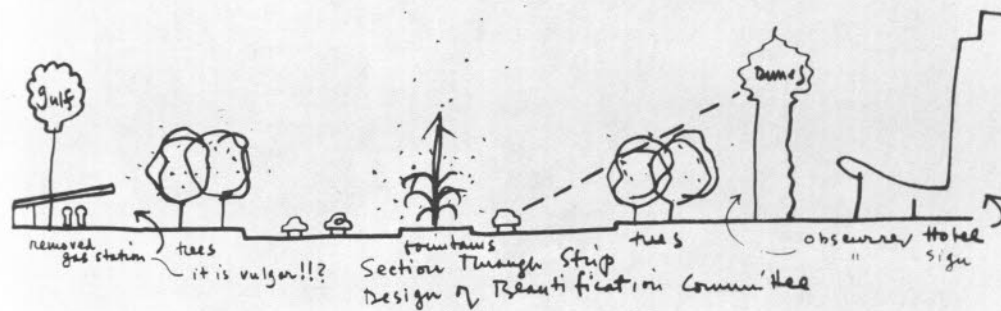
Model should be the Near East:

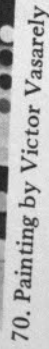
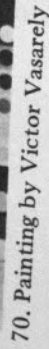
Tile
Mosaics
Maximum effect with a minimum amount of water
+ Electro-graphics

The Median of the Strip should be paved in gold

Remember the floors of the parking lots

69. A message to the Strip Beautification Committee





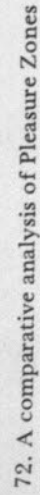
MIAMI BEACH

lacy and diminutive
Yamashiki modern

desert
ocean
parking lots
fortifications

late periods
erotic
arcadian
Romantic etc.

eclectic resort hotels of Morris Lapidus



* (Pop artists have shown the value of the old cliché used in a new context to achieve a new meaning—the soup can in the art gallery—to make the common uncommon. And in literature, Eliot and Joyce display, according to Poirier, “an extraordinary vulnerability . . . to the idioms, rhythms, artifacts, associated with certain urban environments or situations. The multitudinous styles of *Ulysses* are so dominated by them that there are only intermittent sounds of Joyce in the novel and no extended passage certifiably in his as distinguished from a mimicked style.”⁵ Poirier refers to this as the “decreative impulse.”⁶ Eliot himself speaks of Joyce’s doing the best he can “with the material at hand.”⁷ Perhaps a fitting requiem for the irrelevant works of Art that are today’s descendants of a once meaningful Modern architecture are Eliot’s lines in “East Coker”:⁸

*That was a way of putting it—not very satisfactory:
A periphrastic study in a worn-out poetical fashion,
Leaving one still with the intolerable wrestle
With words and meanings. The poetry does not matter. . . .*

5. Richard Poirier, “T. S. Eliot,” p. 20.
6. Ibid., p. 21.

7. T. S. Eliot, *The Complete Poems and Plays, 1909-1950* (New York: Harcourt, Brace and Company, 1958), p. 125.

8. T. S. Eliot, *Four Quartets* (New York: Harcourt, Brace and Company, 1943), p. 13.

STUDIO NOTES

§ A SIGNIFICANCE FOR A&P PARKING LOTS, OR LEARNING FROM LAS VEGAS: A STUDIO RESEARCH PROBLEM

School of Art and Architecture,
Yale University, Fall 1968

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Peter Hoyt
Charles Korn
John Kranz
Peter Schlaifer
Peter Schmitt
Dan Scully
Doug Southworth
Martha Wagner
Tony Zunino

The studio programs and work topics were designed by Denise Scott Brown. Portions of them are quoted in these notes. Excerpts from writings by students have their names appended.

§ COMMERCIAL VALUES AND COMMERCIAL METHODS

This has been a technical studio. We are evolving new tools: analytical tools for understanding new space and form, and graphic tools for represent-

§ See material under the corresponding heading in Part I.

ing them. Don’t bug us for lack of social concern; we are trying to train ourselves to offer socially relevant skills.

§ SYMBOL IN SPACE BEFORE FORM IN SPACE: LAS VEGAS AS A COMMUNICA- TION SYSTEM

WELCOME TO FABULOUS LAS
VEGAS, FREE ASPIRIN—ASK US
ANYTHING, VACANCY, GAS.

All cities communicate messages—functional, symbolic, and persuasive—to people as they move about. Las Vegas signs hit you at the California border and before you land at the airport. On the Strip three message systems exist: the *heraldic*—the signs—dominates (Fig. 1); the *physiognomic*, the messages given by the faces of the buildings—the continuous balconies and regularly spaced picture windows of the Dunes saying HOTEL (Fig. 3) and the suburban bungalows converted to chapels by the addition of a steeple (Fig. 4)—and the *locational*—service stations are found on corner lots, the casino is in front of the hotel, and the ceremonial valet parking is in front of the casino. All three message systems are closely interrelated on the Strip. Sometimes they are combined, as when the facade of a casino becomes one big sign (Fig. 5) or the shape of the building reflects its name, and the sign, in turn, reflects the shape. Is the sign the building or the building the sign?

These relationships, and combinations between signs and buildings, between architecture and symbolism, between form and meaning, between driver and the roadside are deeply relevant to architecture today and have been discussed at length by several writers. But they have not been studied in detail or as an overall system. The students of urban perception and "imageability" have ignored them, and there is some evidence that the Strip would confound their theories. How is it that in spite of "noise" from competing signs we do in fact find what we want on the Strip? Also, we have no good graphic tools for depicting the Strip as message giver. How can the visual importance of the Stardust sign be mapped at 1 inch to 100 feet?

§ THE ARCHITECTURE OF PERSUASION

In *The View From the Road*. Appleyard, Lynch, and Myer describe the driving experience as "a sequence played to the eyes of a captive, somewhat fearful, but partially inattentive audience, whose vision is filtered and directed forward."¹

Movement perception along a road is within a structural order of constant elements—the road, sky, lamppost spacing, and yel-

1. Donald Appleyard, Kevin Lynch, and John R. Myer, *The View From the Road* (Cambridge, Mass.: The M.I.T. Press, 1964), p. 5.

low stripes. A person can orient to this, while the rest just happens! Lynch found that more than half the objects sighted along a road by both drivers and passengers are seen straight ahead and narrowly to the sides, as if with blinders (Fig. 11). (That is why the sign must be big and must be along the road.) About one-third of the attention is off to the immediate sides. Attention is also more focused on "moving" objects than on "stable" ones, except when the observer passes a visual barrier and, in order to reorient, surveys a new landscape. Speed is the determinant of focal angle, both for driver and passengers. Increases of speed narrow the focal angle with a resulting visual shift from detail to generality; attention shifts to points of decision. The body sensations of speed are few in a car. We depend upon vision for our perception of speed. Objects that pass overhead greatly increase the sense of speed.

Does Las Vegas make any attempt to control speed—slow down, therefore see more detail, therefore buy? (Daniel Scully and Peter Schmitt)

§ VAST SPACE IN THE HISTORICAL TRADITION AND AT THE A&P

The Las Vegas Strip eludes our concepts of urban form and space, ancient or modern. It has as little to do with Haussmann as

with Ville Radieuse, with Ebenezer Howard as with the Metabolists, with Lynch as with Camillo Sitte or Ian Nairn. Frank Lloyd Wright would have considered it a travesty of Broadacre City, and Maki would probably find it a travesty of "group form." Perhaps Patrick Geddes might have understood and J. B. Jackson is very much attuned to it.

Although its buildings suggest a number of historical styles, its urban spaces owe nothing to historical space. Las Vegas space is neither contained and enclosed like medieval space nor classically balanced and proportioned like Renaissance space nor swept up in a rhythmically ordered movement like Baroque space, nor does it flow like Modern space around freestanding urban space makers.

It is something else again. But what? Not chaos, but a new spatial order relating the automobile and highway communication in an architecture which abandons pure form in favor of mixed media. Las Vegas space is so different from the docile spaces for which our analytical and conceptual tools were evolved that we need new concepts and theories to handle it.

One way of understanding the new form and space is to compare it with the old and the different. Compare Las Vegas with Ville Radieuse and Haussmann's Paris; compare the Strip with a medieval market street (Figs. 8,

12); compare Fremont Street, a shopping center, and the pilgrims' way through Rome. Compare a form that "just grew" with its designed equivalent and with "group forms" from other cultures.

Another way of understanding the new form is to describe carefully and then analyze what is there and, from an understanding of the city as is, to evolve new theories and concepts of form more suited to twentieth-century realities and therefore more useful as conceptual tools in design and planning. This approach provides a way out of the CIAM grid. But how does one describe new form and space using techniques derived from the old? What techniques can represent the 60mph form and space of the Strip? How does its desert site affect Las Vegas form and space?

Do Las Vegas public and institutional buildings show any influences from its recreational architecture?

§ MAPS OF LAS VEGAS (FIGS. 18-27, 71)

The representation techniques learned from architecture and planning impede our understanding of Las Vegas. They are static where it is dynamic, contained where it is open, two-dimensional where it is three-dimensional—how do you show the Aladdin sign meaningfully in plan, section, and elevation, or show the Golden Slipper on a land-use plan? Architectural techniques

are suitable for large, broad objects in space, like buildings, but not for thin, intense objects, like signs; planning techniques are able to depict activity (land use), but in excessively general categories, for the ground floor only, and without intensity.

We need techniques for abstracting, for example, to represent "twin phenomena" or to demonstrate concepts and generalized schema—an archetypal casino or a piece of the urban fabric—rather than specific buildings. The pretty photographs that we and other tourists made in Las Vegas are not enough.

How do you *distort* these to draw out a meaning for a designer? How do you differentiate on a plan between form that is to be specifically built as shown and that which is, within constraints, allowed to happen? How do you represent the Strip as perceived by Mr. A. rather than as a piece of geometry? How do you show quality of light—or qualities of form—in plan at 1 inch to 100 feet? How do you show fluxes and flows, or seasonal variation, or change with time?

LAS VEGAS AS A PATTERN OF ACTIVITIES

A city is a set of intertwined activities that form a pattern on the land. The Las Vegas Strip is not a chaotic sprawl but a set of activities whose pattern, as with other cities, depends on the technology of movement and communication and the economic

value of land. We term it sprawl, because it is a new pattern we have not yet understood. The aim here is for us as designers to derive an understanding of this new pattern.

The questions are: How can the traditional city planning methods for depicting activity patterns (land-use and transportation maps) be adapted to a city such as Las Vegas? How can they be made useful as inspiration sources and design tools for urban designers? What other methods are there for coming to an understanding of the city as an activity system?

In search of answers, we shall experiment with different techniques for representing the following:

1. Las Vegas and the Strip as phenomena in the space economy, national and local.
2. Land use and intensity of use for the region in general and the Strip in detail.
3. The linkages between activities on and around the Strip.
4. Movement and stopping systems for auto, transit, pedestrian, rail, and air for the region and for pedestrian, transit, and auto for the Strip.
5. Volume and flow of different types of traffic at different time periods.
6. The relation between activities and movement at different scales along the Strip.
7. The Strip as recreation system, a promenade.

These studies will give us a broad understanding of why things are where they are in Las Vegas.

§ MAIN STREET AND THE STRIP

On Fremont Street the casinos are part of the sidewalk (Figs. 31-33). On the Strip the public space goes right through the casinos and into the patios beyond, where the relation between public open space and private suites is mediated by a set of sensitive devices. Even the parking lots, which in other cities have about the same public significance as the bathroom corridor (that is, they *are* public, but you would rather not notice them), are here ritualized and given a ceremonial function. The relation between public space, public-private space, and private space is as intricate and intriguing as that of the Rome of the Counter-Reformation (Figs. 23, 24, 42, 43, 52, 54).

§ SYSTEM AND ORDER ON THE STRIP: "TWIN PHENOMENA"

Aldo van Eyck has defined what others might call polar opposites—inside and outside, public and private, unique and general—as "twin phenomena," because these pairs are inextricably intertwined at every level in the city.

Differences between the blazing outside and the cool, dark in-

side are poignantly strong in Las Vegas; yet they are counter-crossed by the domesticated "outside" inside the patio and by the night-sky lighting of the casino lounges. Day is negated inside the casinos, and night is negated on the Strip. The signs are, contradictorily, for day and night.

The casinos flaunt their uniqueness yet are backed by generalized systematized motel space behind. They are set off by the gasoline stations that use their standard, national designs but make their signs uniquely high. The street lighting and road signs are rigidly systematic in contrast with the signs of persuasion that shout their gorgeous cacophony but hide their constraining order (Figs. 35, 36). Some Strip establishments, such as casinos and wedding chapels, are generators, and others, such as motels and gasoline stations, benefit from the market generated.

§ THE ARCHITECTURE OF THE STRIP: COMPILING A PATTERN BOOK (FIGS. 42-49)

To find the system behind the flamboyance, we devised schedules of individual building parts—floors, walls, gas pumps, parking lots, plans, elevation (front, back, and side)—for different building types and for portions of the street. These parts can then be reassembled as a two-dimensional graph for each build-

ing type with buildings on the *X* axis and parts of buildings on the *Y* axis. Reading across we have one building; reading down one column, all elevations of that building type on the Strip; and on the diagonal, a prototypical building (Figs. 42, 43).

GASOLINE STATIONS (FIG. 47)

The client: The real estate department of the oil company. Handles site acquisition, construction and coordination, financing, and so forth.

The site: Determined by the traffic count, cost of land, and competition. Frontage generally determines cost—average 150 feet.

The building: Two or three service bays, facing the front; the office; storage space; customer services—"travel center," vending machines, rest rooms, and so forth.

The styling: Pressures from the beautification people and local zoning boards; Mobil's "modern" box, Shell's "ranch house," and the universal "Colonial" (it's just like your suburban house, except it has pumps in front); use of residential materials—wood, brick, stone; a trend toward standardized form where the building becomes a sign.

The signs: Three orders of magnitude: one sign for great distances (freeway scale); one sign for approach distances (feeder road); the building or sign canopy for close-up.

The lighting: Says station is open; lighting crucial at entrance,

exit, and pumps. Oil companies want the source of light visible for maximum impact, resist indirect lighting; big problems with bugs and with zoning boards.

The service area: Pumps and oil displays; canopy provides protection from the sun and bad weather and acts as a sign (Mobil's circle or Phillips' soaring V). Must be fully visible from the service bays in the station, because most stations are one- or two-man operations. There must be plenty of room to maneuver in order to prevent collisions with the pumps and equipment.

"For the average citizen there are some simple tests which will tell him when we have passed from incantation to practical action on the environment. Restriction of auto use in the large cities will be one. Another will be when the billboards, the worst and most nearly useless excrescence of industrial civilization, are removed from the highways. . . . My own personal test, for what it may be worth, concerns the gasoline service station. This is the most repellent piece of architecture of the past two thousand years. There are far more of them than are needed. Usually they are filthy. Their merchandise is hideously packaged and garishly displayed. They are uncontrollably addicted to great strings of ragged little flags. Protecting them is an ominous coalition of small businessmen and large. The stations

should be excluded entirely from most streets and highways. Where allowed, they should be franchised to limit the number, and there should be stern requirements as to architecture, appearance, and general reticence. When we begin on this (and similar roadside commerce), I will think that we are serious."

—John Kenneth Galbraith²

MOTELS (FIG. 48)

The site: Determined by traffic count, access to freeways, frontage costs, easy visibility; office and restaurant nearest road; meeting rooms (to draw the businessman); bedrooms away from road, adjacent to parking and grouped about a pool, patio, and so forth.

The buildings: Office and canopy with temporary parking; restaurant with parking; convention facilities; bedrooms near parking and connected by covered walkways to other facilities; the standard room size is 14 feet wide by 27, 24, or 21 feet long. Enter off a double-loaded corridor, luggage rack, closet and shelf space on one side; dressing room with sink and bathroom on other; then bed-sitting room; large sliding glass window to patio, balcony, pool; TV opposite the bed; luggage rack, desk, and TV counter in one contin-

2. John Kenneth Galbraith, "To My New Friends in the Affluent Society—Greetings," *Life* (March 27, 1970), p. 20.

uous counter top; generally one or two double beds with assorted remote controls in the headboard.

The styling: Inside, it avoids the all-bedroom look (just like home but a bit more luxurious); outside, the basic components are standardized so that the building becomes the sign, like the Howard Johnson and the Holiday Inn. (Peter Hoyt)

§ LAS VEGAS LIGHTING

Las Vegas daylight, like Greek daylight, makes the polychrome temples stand out proud and clear in the desert. This is a quality hard to catch on film. No photographs of the Acropolis do it justice. And Las Vegas is better known for its night light than its daylight.

§ ARCHITECTURAL MONUMENTALITY AND THE BIG, LOW SPACE: THE FONTAINE-BLEAU

"To get into the dining room you walk up three steps, open a pair of doors and walk out on a platform, and then walk down three steps. Now the dining room is at exactly the same level as my lobby, but as they walk up they reach the platform. I've got soft light lighting this thing up, and before they're seated, they are on stage as if they had been cast for the part. Everybody's look-

ing at them; they're looking at everybody else."

—Morris Lapidus³

§ LAS VEGAS STYLES

Miami Moroccan, International Jet Set Style; Arte Moderne Hollywood Orgasmic, Organic Behind; Yamasaki Bernini cum Roman Orgiastic; Niemeyer Moorish; Moorish Tudor (Arabian Knights); Bauhaus Hawaiian.

"People are looking for illusions; they don't want the world's realities. And, I asked, where do I find this world of illusion? Where are their tastes formulated? Do they study it in school? Do they go to museums? Do they travel in Europe? Only one place—the movies. They go to the movies. The hell with everything else."

—Morris Lapidus⁴

§ LAS VEGAS SIGNS (FIGS. 62-68)

The time has arrived for a scholar to write a doctoral dissertation on signs. He or she would need literary as well as artistic acumen, because the same reason that makes signs Pop Art (the need for high-speed communication with maximum meaning) makes them Pop literature as

3. Morris Lapidus, quoted in *Progressive Architecture* (September 1970), p. 122.

4. *Ibid.*, p. 120.

well. For example, this one from Philadelphia:

O. R. LUMPKIN. BODYBUILDERS. FENDERS STRAIGHTENED. WRECKS OUR SPECIALTY. WE TAKE THE DENT OUT OF ACCIDENT.

We shall be analyzing and categorizing the signs of Las Vegas by content and form, by function (night and day) and location, as well as by size, color, structure, and method of construction, trying to understand what makes the "Las Vegas style" in signs and what we can learn from them about an impure architecture of form and symbols.

A stylistic analysis of Las Vegas signs would trace the influence of the greats (the designers in YESCO) through to the minor architecture of wedding chapels and sauna baths, compare the national and general sign imagery of the gasoline stations with the unique and specific symbolic imagery of the casinos, and follow the influence patterns back and forth between artists and sign makers. It would trace parallels with historical architecture that emphasizes association and symbolism, such as Romanticism, eclecticism, Mannerism, and the iconographic aspects of Gothic architecture, and tie these into the sign styles of Las Vegas.

In the seventeenth century, Rubens created a painting "factory" wherein different workers

specialized in drapery, foliage, or nudes. In Las Vegas there is just such a sign "factory," the Young Electric Sign Company. Someone should talk to and observe and document each of the departments in YESCO; find out the backgrounds of the designers; watch the whole design process.

Is there a private vocabulary for sign designers such as that existing in architecture? How is the contradiction between form and function resolved in sign design? Carefully photograph the sign models.

How do people actually use Route 91, the median strips, the entrance ways to casinos, the parking lots, and the pedestrian access? How do they react to signs?

REPORT ON A SURVEY OF DRIVERS ENTERING HOTEL DRIVEWAYS

1. Most drivers took the first entrance available to them after becoming aware of the limits of the property of the place they desired to go to.

2. Most people disregarded the sign and planned internal workings of the parking lot as determined by the designer. Note the Circus Circus Casino sign.

3. The location of the signs and the other parking lot furniture seemed to have little influence on the use of the lot.

4. The apparent property line is a controlling element in the way people see the parking lot.

5. Visual elements, such as the

fountains at Caesars Palace and Circus Circus, control the drivers more powerfully than any of the other directional signs. (John Kranz and Tony Zunino)

§ INCLUSION AND THE DIFFICULT ORDER

"Modern systems! Yes, indeed! To approach everything in a strictly methodical manner and not to waver a hair's breadth from preconceived patterns, until genius has been strangled to death and *joie de vivre* stifled by the system—that is the sign of our time."

—Camillo Sitte⁵

"It is fruitless, however, to search for some dramatic key element or king pin which, if made clear, will clarify all. No single element in a city is, in truth, the king pin. The mixture is the king pin, and its mutual support is the order."

—Jane Jacobs⁶

"The key word is: Proportion. No matter what you may call it—beauty, eye appeal, good taste, or architectural compatibility, limiting the size of electrical advertising displays does not ensure any of these. Proper proportions—the relationship of graphic ele-

5. Camillo Sitte, *City Planning According to Artistic Principles*, translated by George R. Collins and Christiane Crasemann Collins (New York: Random House, 1965), p. 91.

6. Jane Jacobs, *The Death and Life of Great American Cities* (New York: Vintage Books, 1961), p. 376.

ments to each other—are necessary to good design, whether it be a matter of clothing, art, architecture, or an electrical sign. Relative size, not over-all size, is the factor in determining guidelines which will satisfactorily influence attractive appearance."

—California Electric Sign Association⁷

Should a gas station on the Strip be required to blend with (that is, look like) the casinos?

How can a design intention be differentiated graphically from one possible design among many that might stem from a design control?

Computer-video urban simulation systems suggest possibilities for controls to be tried out through the simulation of environments. Imaginatively used, this could make for looser yet more efficient controls.

CONTROLS AND BEAUTIFICATION

The Las Vegas Strip "just grew," and perhaps its initiators built it outside the city limits in order to escape controls. But today there are the usual building and zoning controls and a "Strip Beautification Committee" as well (Fig. 69). There is no good record of commissions on aesthetics producing good architecture.⁸ (Haussmann was not a

7. "Guideline Standards for On Premise Signs," prepared specifically for Community Planning Authorities by California Electric Sign Association, Los Angeles, Calif. (1967), p. 14.

8. See Appendix.

commission but a one-man control system. His power and its results are dubiously desirable and certainly unattainable today.) Commissions produce mediocrity and a deadened urb. What will happen to the Strip when the tastemakers take over?

SIGN CONTROL

The basic premises of three major parties are as follows:

Aesthetician: "Urban environment as medium of communication. Signs should enhance and clarify this communication."

Sign Industry: "Signs are good, they're good for business, that makes 'um good for H'america too."

Legal Statutes: "If you'll just perform these minimal requirements we can collect a fee for the city and you gentlemen can continue your sender-message-receiver responses."

(Charles Korn)

§ IMAGE OF LAS VEGAS: INCLUSION AND ALLUSION IN ARCHITECTURE (FIGS. 71, 72)

An image employed by a designer should be something very evocative, something that does not limit by being too defined and too concrete, yet helps the designer think of the city in physical terms. Laughing or crying faces or people sitting at gambling machines are not enough. What is an urban designer's image, or set of images, for

the Strip and the big low spaces of the casinos? What techniques—movie, graphic, or other—should be used to depict them?

In the eighteenth and nineteenth centuries an integral part of an architect's education consisted of sketching Roman ruins. If the eighteenth-century architect discovered his design gestalt by means of the Grand Tour and a sketch pad, we as twentieth-century architects will have to find our own "sketch pad" for Las Vegas.

We feel that we should construct our visual image of Las Vegas by means of a collage made from Las Vegas artifacts of many types and sizes, from YESCO signs to the Caesars Palace daily calendar. To construct this collage, you should collect images, verbal slogans, and objects. Bear in mind that, however diverse the pieces, they must be juxtaposed in a meaningful way, for example, as are Rome and Las Vegas in this study. Document the American piazza versus the Roman, and Nolli's Rome versus the Strip.

SOME DEFINITIONS AND THE COMPARATIVE METHOD

PART II UGLY AND ORDINARY ARCHITECTURE, OR THE DECORATED SHED

SOME DEFINITIONS USING THE COMPARATIVE METHOD

"Not innovating willfulness but reverence for the archetype."
Herman Melville

"Incessant new beginnings lead to sterility."
Wallace Stevens

"I like boring things."
Andy Warhol

To make the case for a new but old direction in architecture, we shall use some perhaps indiscreet comparisons to show what we are for and what we are against and ultimately to justify our own architecture. When architects talk or write, they philosophize almost solely to justify their own work, and this apologia will be no different. Our argument depends on comparisons, because it is simple to the point of banality. It needs contrast to point it up. We shall use, somewhat undiplomatically, some of the works of leading architects today as contrast and context.

¶We shall emphasize image—image over process or form—in asserting that architecture depends in its perception and creation on past experience and emotional association and that these symbolic and representational elements may often be contradictory to the form, structure, and program with which they combine in the same building. We shall survey this contradiction in its two main manifestations:

1. Where the architectural systems of space, structure, and program are submerged and distorted by an overall symbolic form. This kind of building-becoming-sculpture we call the *duck* in honor of the duck-shaped drive-in, "The Long Island Duckling," illustrated in *God's Own Junkyard* by Peter Blake (Fig. 73).¹

2. Where systems of space and structure are directly at the service of program, and ornament is applied independently of them. This we call the *decorated shed* (Fig. 74).

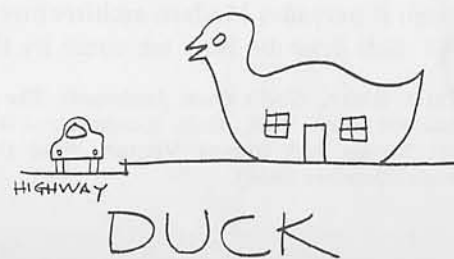
The duck is the special building that *is* a symbol; the decorated shed is the conventional shelter that *applies* symbols (Figs. 75, 76). We maintain that both kinds of architecture are valid—Chartres is a duck (although it is a decorated shed as well), and the Palazzo Farnese is a decorated shed—but we think that the duck is seldom relevant today, although it pervades Modern architecture.

We shall describe how we come by the automobile-oriented commer-

1. Peter Blake, *God's Own Junkyard: The Planned Deterioration of America's Landscape* (New York: Holt, Rinehart and Winston, 1964), p. 101. See also Denise Scott Brown and Robert Venturi, "On Ducks and Decoration," *Architecture Canada* (October 1968).



73. "Long Island Duckling" from *God's Own Junkyard*



74. Road scene from *God's Own Junkyard*



cial architecture of urban sprawl as our source for a civic and residential architecture of meaning, viable now, as the turn-of-the-century industrial vocabulary was viable for a Modern architecture of space and industrial technology 40 years ago. We shall show how the iconography, rather than the space and piazzas of historical architecture, forms the background for the study of association and symbolism in commercial art and strip architecture.

Finally we shall argue for the symbolism of the ugly and ordinary in architecture and for the particular significance of the decorated shed with a rhetorical front and conventional behind: for architecture as shelter with symbols on it.

THE DUCK AND THE DECORATED SHED

Let us elaborate on the decorated shed by comparing Paul Rudolph's Crawford Manor with our Guild House (in association with Cope and Lippincott; Figs. 77, 78). These two buildings are comparable in use, size, and date of construction: Both are high-rise apartments for the elderly, consisting of about 90 units, built in the mid-1960s. Their settings vary: Guild House, although freestanding, is a six-story imitation palazzo, analogous in structure and materials to the surrounding buildings and continuing, through its position and form, the street line of the Philadelphia gridiron plan it sits in. Crawford Manor, on the other hand, is unequivocally a soaring tower, unique in its Modern, Ville Radieuse world along New Haven's limited-access Oak Street Connector.

But it is the contrast in the *images* of these buildings in relation to their systems of construction that we want to emphasize. The system of construction and program of Guild House are ordinary and conventional and look it; the system of construction and program of Crawford Manor are ordinary and conventional but do not look it.

Let us interject here that we chose Crawford Manor for this comparison not because of any particular antagonism toward that building. It is, in fact, a skillful building by a skillful architect, and we could easily have chosen a much more extreme version of what we are criticizing. But in general we chose it because it can represent establishment architecture now (that is, it represents the great majority of what you see today in any architecture journal), and in particular because it corresponds in fundamental ways with Guild House. On the other hand, our choosing Guild House for comparison involves a disadvantage, because that building is now five years old, and some of our later work can more explicitly and vividly convey our current ideas. Last, please do not criticize us for primarily analyzing image: We are doing so simply because image is pertinent to our argument, not because we wish to deny an interest in or the importance of process, program, and struc-

ture or, indeed, social issues in architecture or in these two buildings. Along with most architects, we probably spend 90 percent of our design time on these other important subjects and less than 10 percent on the questions we are addressing here; they are merely not the direct subject of this inquiry.

To continue our comparisons, the construction of Guild House is poured-in-place concrete plate with curtain walls, pierced by double-hung windows and enclosing the interior space to make rooms. The material is common brick—darker than usual to match the smog-smudged brick of the neighborhood. The mechanical systems of Guild House are nowhere manifest in the outside forms. The typical floor plan contains a 1920s-apartment-house variety of units to accommodate particular needs, views, and exposures; this distorts the efficient grid of columns (Fig. 80). The structure of Crawford Manor, which is poured-in-place concrete with concrete block faced with a striated pattern, is likewise a conventional frame supporting laid-up masonry walls (Fig. 79). But it does not look it. It looks more advanced technologically and more progressive spatially. It looks as if its supports are spatial, perhaps mechanical-harboring shafts made of a continuous plastic material reminiscent of *béton brut* with the striated marks of violently heroic construction process embossed in their form. They articulate the flowing interior space, their structural purity never punctured by holes for windows or distorted by exceptions in the plan. Interior light is "modulated" by the voids between the structure and the "floating" cantilevered balconies (Fig. 81).

† The architectural elements for supplying exterior light in Guild House are frankly windows. We relied on the conventional method of doing windows in a building, and we by no means thought through from the beginning the subject of exterior light modulation but started where someone else had left off before us. The windows look familiar; they *look like*, as well as *are*, windows, and in this respect their use is explicitly symbolic. But like all effective symbolic images, they are intended to look familiar and unfamiliar. They are the conventional element used slightly unconventionally. Like the subject matter of Pop Art, they are commonplace elements made uncommon through distortion in shape (slight), change in scale (they are much bigger than normal double-hung windows), and change in context (double-hung windows in a perhaps high-fashion building, Fig. 82).

DECORATION ON THE SHED

Guild House has ornament on it; Crawford Manor does not (Fig. 83). The ornament on Guild House is explicit. It both reinforces and contradicts the form of the building it adorns. And it is to some extent sym-

bolic. (The continuous stripe of white-glazed brick high on the facade, in combination with the plane of white-glazed brick below, divides the building into three uneven stories: basement, principal story, and attic. It contradicts the scale of the six real and equal floors on which it is imposed and suggests the proportions of a Renaissance palace. The central white panel also enhances the focus and scale of the entrance. It extends the ground floor to the top of the balcony of the second floor in the way, and for the same reasons, that the increased elaboration and scale around the door of a Renaissance palace or Gothic portal does. The exceptional and fat column in an otherwise flat wall surface increases the focus of the entrance, and the luxurious granite and glazed brick enhance the amenity there, as does the veined marble that developers apply at street level to make their apartment entrances more classy and rentable. At the same time, the column's position in the middle of the entrance diminishes its importance.)

The arched window in Guild House is not structural. Unlike the more purely ornamental elements in this building, it reflects an interior function of the shed, that is, the common activities at the top. But the big common room itself is an exception to the system inside. On the front elevation, an arch sits above a central vertical stripe of balcony voids, whose base is the ornamental entrance. Arch, balconies, and base together unify the facade and, like a giant order (or classic jukebox front), undermine the six stories to increase the scale and monumentality of the front. In turn, the giant order is topped by a flourish, an unconnected, symmetrical television antenna in gold anodized aluminum, which is both an imitation of an abstract Lippold sculpture and symbol for the elderly. An open-armed, polychromatic, plaster madonna in this position would have been more imageful but unsuitable for a Quaker institution that eschews all outward symbols—as do Crawford Manor and most orthodox Modern architecture, which reject ornament and association in the perception of forms.)

EXPLICIT AND IMPLICIT ASSOCIATIONS

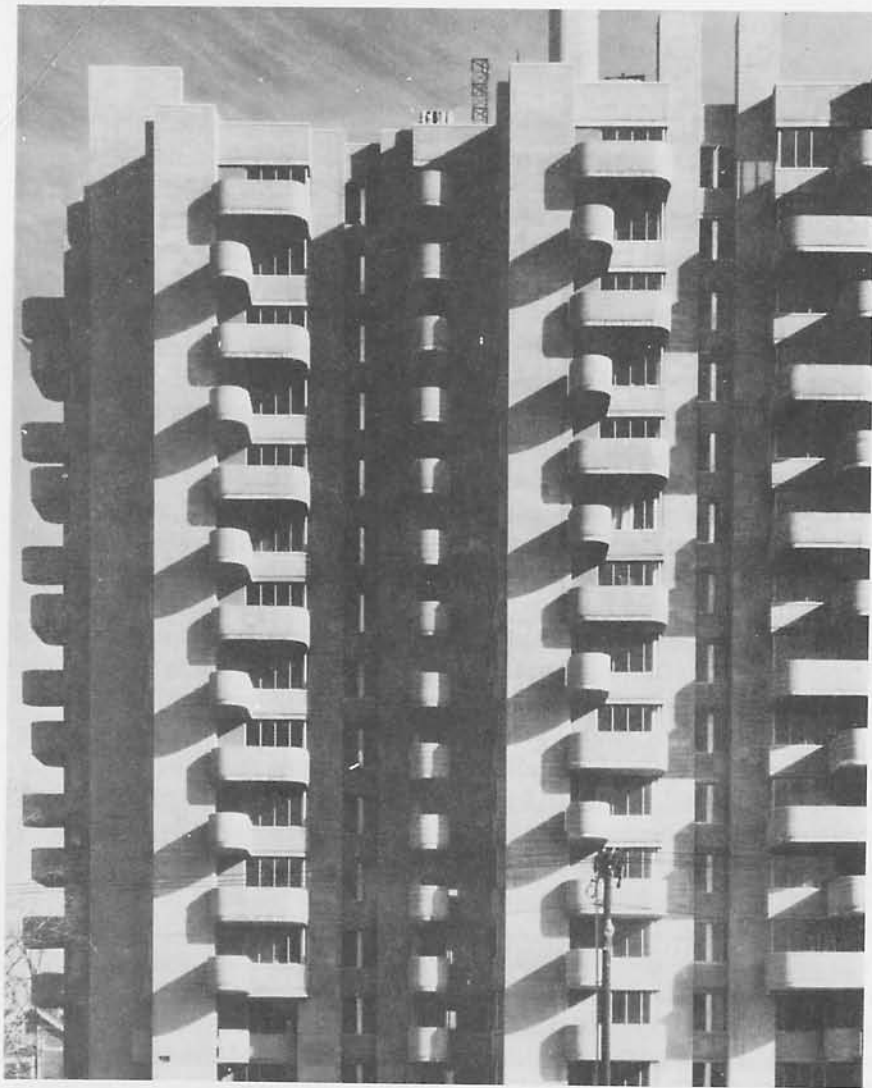
(Adornments of representational sculpture on the roof, or a prettily shaped window, or wittiness or rhetoric of any kind are unthinkable for Crawford Manor. Nor would it sport appliques of expensive material on a column or white stripes and wainscoting copied from Renaissance compositions. For instance, Crawford Manor's cantilevered balconies are "structurally integrated"; they are parapeted with the overall structural material and devoid of ornament. Balconies at Guild House are not structural exercises, and the railings are adornments as well as recollections at a bigger scale of conventional patterns in stamped metal (Fig. 84).)

Guild House symbolism involves ornament and is more or less dependent on explicit associations; it looks like what it is not only because of what it is but also because of what it reminds you of. But the architectural elements of Crawford Manor abound in associations of another, less explicit, kind. Implicit in the pure architectural forms of Crawford Manor is a symbolism different from the appliqué ornament of Guild House with its explicit, almost heraldic, associations. The implicit symbolism of Crawford Manor we read into the undecorated physiognomy of the building through associations and past experience; it provides layers of meaning beyond the "abstract expressionist" messages derived from the inherent physiognomic characteristics of the forms—their size, texture, color, and so forth. These meanings come from our knowledge of technology, from the work and writings of the Modern form givers, from the vocabulary of industrial architecture, and from other sources. For instance, the vertical shafts of Crawford Manor connote structural piers (they are not structural), made of rusticated "reinforced concrete" (with mortar joints), harboring servant spaces and mechanical systems (actually kitchens), terminating in the silhouettes of exhaust systems (suitable to industrial laboratories), articulating light-modulating voids (instead of framing windows), articulating flowing space (confined to efficiency apartments but augmented by very ubiquitous balconies that themselves suggest apartment dwelling), and articulating program functions that protrude sensitively (or expressionistically) from the edges of the plan.)

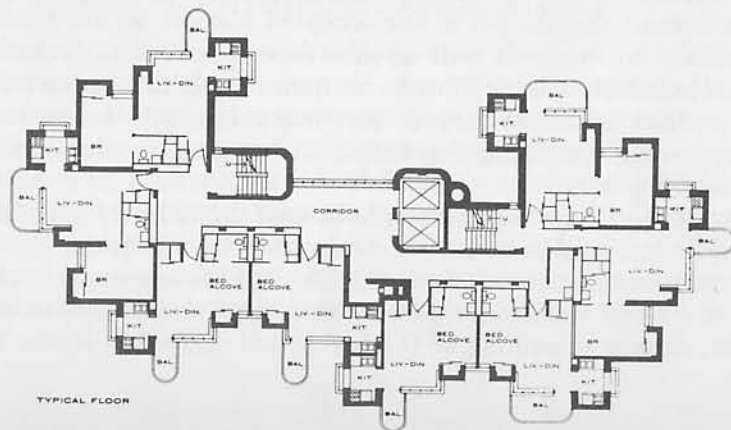
HEROIC AND ORIGINAL, OR UGLY AND ORDINARY

The content of Crawford Manor's implicit symbolism is what we call "heroic and original." Although the substance is conventional and ordinary, the image is heroic and original. The content of the explicit symbolism of Guild House is what we call "ugly and ordinary." The technologically unadvanced brick, the old-fashioned, double-hung windows, the pretty materials around the entrance, and the ugly antenna not hidden behind the parapet in the accepted fashion, all are distinctly conventional in image as well as substance or, rather, ugly and ordinary. (The inevitable plastic flowers at home in these windows are, rather, pretty and ordinary; they do not make this architecture look silly as they would, we think, the heroic and original windows of Crawford Manor, Fig. 85.)

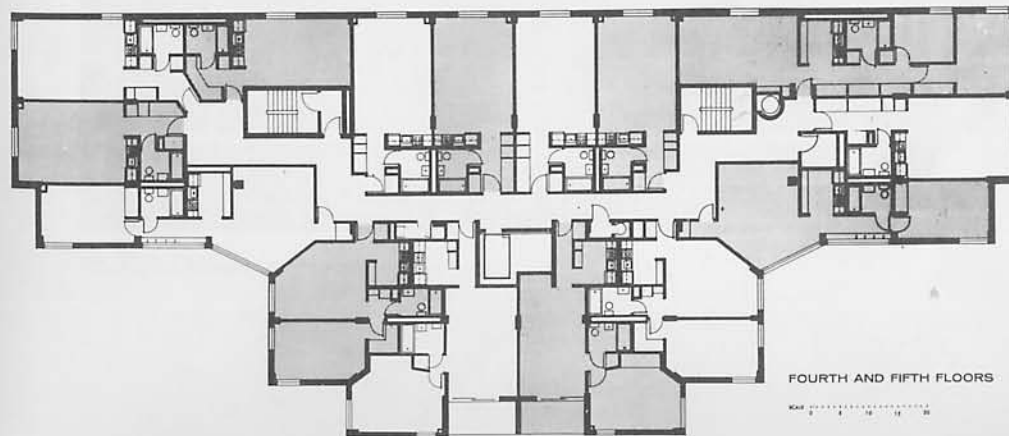
But in Guild House, the symbolism of the ordinary goes further than this. The pretensions of the "giant order" on the front, the symmetrical, palazzolike composition with its three monumental stories (as well as its six real stories), topped by a piece of sculpture—or almost sculpture—suggest something of the heroic and original. It is true that in this



77. Crawford Manor, New Haven, 1962-1966; Paul Rudolph



78. Guild House, Friends' Housing for the Elderly, Philadelphia, 1960-1963; Venturi and Rauch, Cope and Lippincott, Associates

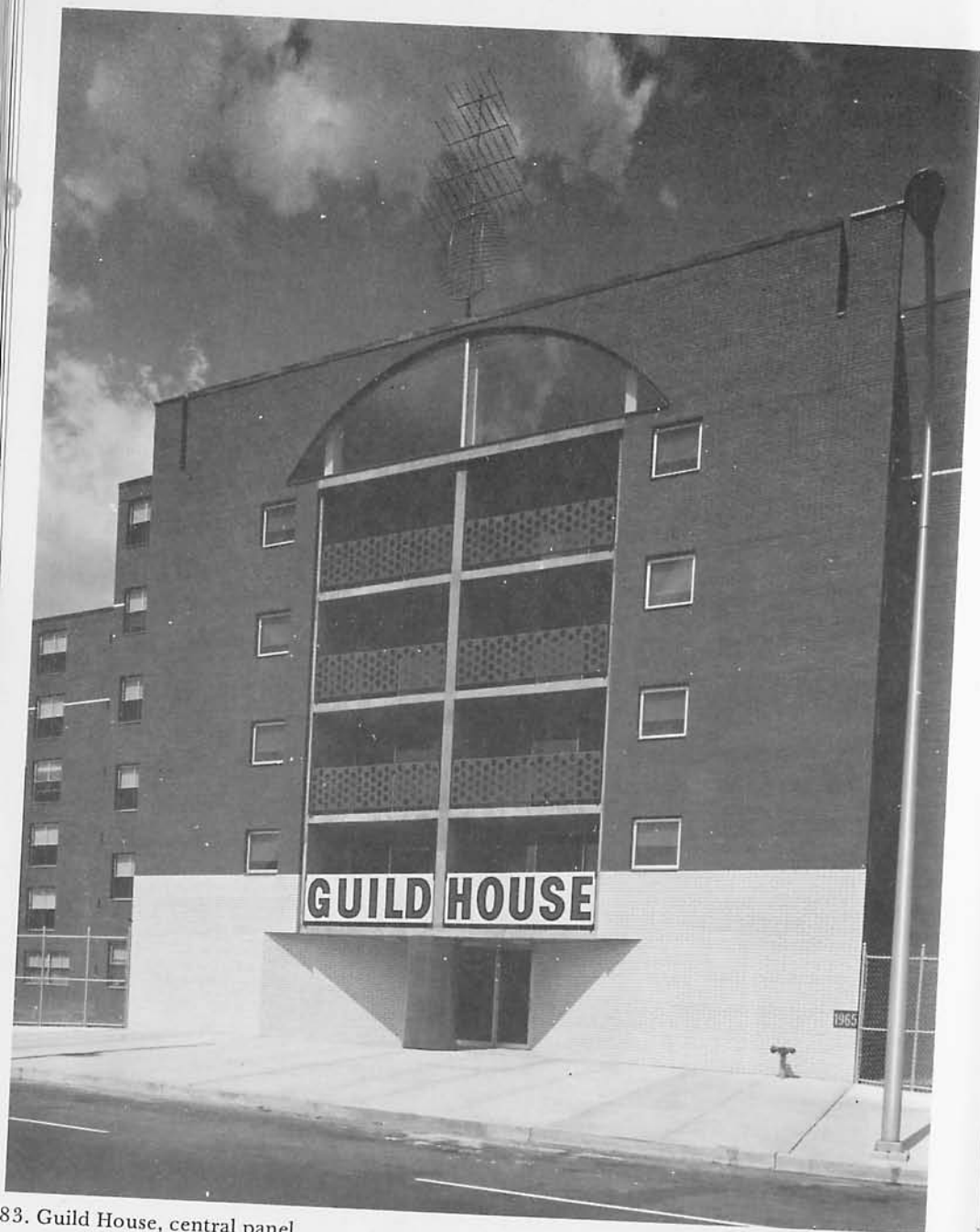




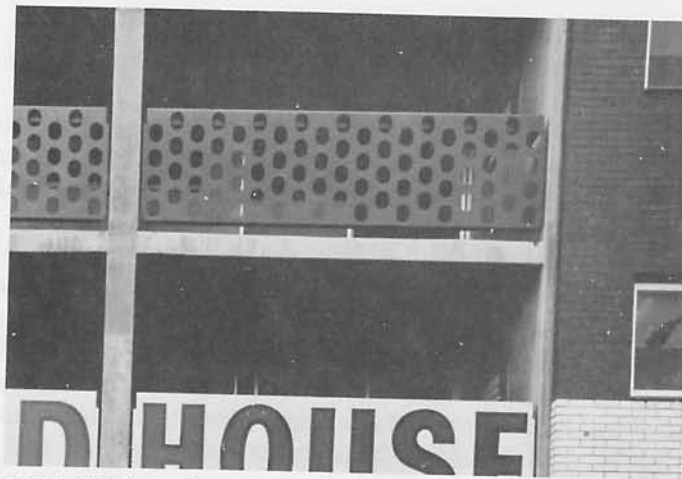
81. Crawford Manor (detail)



82. Guild House, windows



83. Guild House, central panel



84. Guild House, balcony



85. Guild House, detail of window



case the heroic and original facade is somewhat ironical, but it is this juxtaposition of contrasting symbols—the appliqué of one order of symbols on another—that constitutes for us the decorated shed. This is what makes Guild House an architect's decorated shed—not architecture without architects.

(The purest decorated shed would be some form of conventional systems-building shelter that corresponds closely to the space, structure, and program requirements of the architecture, and upon which is laid a contrasting—and, if in the nature of the circumstances, contradictory—decoration.) In Guild House the ornamental-symbolic elements are more or less literally appliqué: The planes and stripes of white brick are appliqué; the street facade through its disengagement at the top corners implies its separation from the bulk of the shed at the front. (This quality also implies continuity, and therefore unity, with the street line of facades of the other older, nonfreestanding buildings on each side.) The symbolism of the decoration happens to be ugly and ordinary with a dash of ironic heroic and original, and the shed is straight ugly and ordinary, though in its brick and windows it is symbolic too. Although there is ample historical precedent for the decorated shed, present-day roadside commercial architecture—the \$10,000 stand with the \$100,000 sign—was the immediate prototype of our decorated shed. And it is in the sign of Guild House that the purest manifestation of the decorated shed and the most vivid contrast with Crawford Manor lies.

ORNAMENT: SIGNS AND SYMBOLS, DENOTATION AND CONNOTATION, HERALDRY AND PHYSIOGNOMY, MEANING AND EXPRESSION

(A sign on a building carries a denotative meaning in the explicit message of its letters and words. It contrasts with the connotative expression of the other, more architectural elements of the building.) A big sign, like that over the entrance of Guild House, big enough to be read from passing cars on Spring Garden Street, is particularly ugly and ordinary in its explicit commercial associations (Fig. 86). It is significant that the sign for Crawford Manor is modest, tasteful, and not commercial. It is too small to be seen from fast-moving cars on the Oak Street Connector. But signs as explicit symbols, especially big, commercial-looking signs, are anathema in architecture such as Crawford Manor. Its identification comes, not through explicit, denotative communication, through literally spelling out "I am Guild House," but through the connotation implicit in the physiognomy of its pure architectural form, which is intended to express in some way housing for the elderly.

We have borrowed the simple literary distinctions between "denotative" and "connotative" meanings and applied them to the heraldic and

physiognomic element in architecture. To clarify further, the sign saying GUILD HOUSE *denotes* meaning through its words; as such, it is the heraldic element *par excellence*. The character of the graphics, however, *connotes* institutional dignity, while, contradictorily, the size of the graphics *connotes* commercialism. The position of the sign perhaps also *connotes* entering. The white-glazed brick *denotes* decoration as a unique and rich appliqué on the normal red brick. Through the location of the white areas and stripes on the facade, we have tried *connotatively* to suggest floor levels associated with palaces and thereby palace-like scale and monumentality. The double-hung windows *denote* their function, but their grouping *connotes* domesticity and ordinary meanings.)

Denotation indicates specific meaning; connotation suggests general meanings. The same element can have both denotative and connotative meanings, and these may be mutually contradictory. Generally, to the extent that it is denotative in its meaning, an element depends on its heraldic characteristics; to the extent that it is connotative, an element depends on its physiognomic qualities. Modern architecture (and Crawford Manor as its exemplar) has tended to shun the heraldic and denotative in architecture and to exaggerate the physiognomic and connotative. Modern architecture uses expressive ornament and shuns explicit symbolic ornament.

In sum, we have analyzed Guild House and Crawford Manor in terms of content of the image and in terms of method used to achieve image. A comparative catalog of Guild House versus Crawford Manor in these terms is shown in Table 1.

IS BORING ARCHITECTURE INTERESTING?

For all its commonness, is Guild House boring? For all its dramatic balconies, is Crawford Manor interesting? Is it not, perhaps, the other way around? Our criticism of Crawford Manor and the buildings it stands for is not moralistic, nor is it concerned with so-called honesty in architecture or a lack of correspondence between substance and image *per se*; Crawford Manor is ugly and ordinary while *looking* heroic and original. We criticize Crawford Manor not for "dishonesty," but for irrelevance today. We shall try to show how, in both the method and content of its images, Crawford Manor, as well as the architecture it represents, has impoverished itself by rejecting denotative ornament and the rich tradition of iconography in historical architecture and by ignoring—or rather using unawares—the connotative expression it substituted for decoration. When it cast out eclecticism, Modern architecture submerged symbolism. Instead it promoted expressionism, concentrating on the expression of architectural elements themselves: on the



Table 1. Comparison of Guild House and Crawford Manor

Guild House	Crawford Manor
An architecture of meaning	An architecture of expression
Explicit "denotative" symbolism	Implicit "connotative" symbolism
Symbolic ornament	Expressive ornament
Applied ornament	Integral expressionism
Mixed media	Pure architecture
Decoration by the attaching of superficial elements	Unadmitted decoration by the articulation of integral elements
Symbolism	Abstraction
Representational art	"Abstract expressionism"
Evocative architecture	Innovative architecture
Societal messages	Architectural content
Propaganda	Architectural articulation
High and low art	High art
Evolutionary, using historical precedent	Revolutionary, progressive, anti-traditional
Conventional	Creative, unique, and original
Old words with new meanings	New words
Ordinary	Extraordinary
Expedient	Heroic
Pretty in front	Pretty (or at least unified) all around
Inconsistent	Consistent
Conventional technology	Advanced technology
Tendency toward urban sprawl	Tendency toward megastructure
Starts from client's value system	Tries to elevate client's value system and/or budget by reference to Art and Metaphysics
Looks cheap	Looks expensive
"Boring"	"Interesting"

expression of structure and function. It suggested, through the image of the building, reformist-progressive social and industrial aims that it could seldom achieve in reality. By limiting itself to strident articulations of the pure architectural elements of space, structure, and program, Modern architecture's expression has become a dry expressionism, empty and boring—and in the end irresponsible. Ironically, the Modern architecture of today, while rejecting explicit symbolism and frivolous appliqué ornament, has distorted the whole building into one big ornament. In substituting "articulation" for decoration, it has become a duck.

THEORY OF UGLY AND ORDINARY AND RELATED AND CONTRARY THEORIES

ORIGINS AND FURTHER DEFINITION OF UGLY AND ORDINARY

Let us describe our own experience as architects to explain how we came to ugly and ordinary architecture. After the appearance of *Complexity and Contradiction in Architecture*,⁵ we began to realize that few of our firm's buildings were complex and contradictory, at least not in their purely architectural qualities of space and structure as opposed to their symbolic content. We had failed to fit into our buildings double-functioning or vestigial elements, circumstantial distortions, expedient devices, eventful exceptions, exceptional diagonals, things in things, crowded or contained intricacies, linings or layerings, residual spaces, redundant spaces, ambiguities, inflections, dualities, difficult wholes, or the phenomena of both-and. There was little in our work of inclusion, inconsistency, compromise, accommodation, adaptation, superadjacency, equivalence, multiple focus, juxtaposition, or good and bad space.

Most of the complexities and contradictions we relished thinking about we did not use, because we did not have the opportunity. Venturi and Rauch did not get big commissions whose programs and settings justified complex and contradictory forms, and as artists we could not impose on our work inapplicable ideas that we liked as critics. A building should not be a vehicle for an architect's ideas, etc. Also our budgets were low, and we did not want to design a building twice—once to fit some heroic idea of its importance to society and the world of art and, after the bids came in, a second time to reflect the client's and society's restricted idea of our architecture's value. Whether society was right or wrong was not for us at that moment to argue. Therefore our Brighton Beach Housing entry did not turn out a megastructure for living in or our Fire Station in Columbus, Indiana, a personalized essay in civic monumentality for a pedestrian piazza by the side of the highway. They turned out "ugly and ordinary," as two such divergent critics as Philip Johnson and Gordon Bunshaft have described our work. "Ugly" or "beautiful" is perhaps a question of semantics in this context, but these two architects did catch the spirit, in a way.

Architecture may be ordinary—or rather, conventional—in two ways: in how it is constructed or in how it is seen, that is, in its process or in its symbolism. To construct conventionally is to use ordinary materials and engineering, accepting the present and usual organization of the

building industry and its financial structure and hoping to ensure fast, sound, and economical construction. This is good in the short run, and the short run is what our clients have largely retained us architects for. Architectural theories of the short run tend toward the idealization and generalization of expediency. Architecture for the long run requires creation, rather than adaptation, and response to advanced technology and sophisticated organization. It depends on sound research that may perhaps be promoted in the architect's office but should be financed outside it, because the client's fee is not adequate for and not intended for that purpose. Although architects have not wished to recognize it, most architectural problems are of the expedient type, and the more architects become involved in social problems, the more this is true. In general the world cannot wait for the architect to build his or her utopia, and in the main the architect's concern should belong not with what ought to be but with what is—and with how to help improve it now. This is a humbler role for architects than the Modern movement has wanted to accept; however, it is artistically a more promising one.

UGLY AND ORDINARY AS SYMBOL AND STYLE

Artistically, the use of conventional elements in ordinary architecture—be they dumb doorknobs or the familiar forms of existing construction systems—evokes associations from past experience. Such elements may be carefully chosen or thoughtfully adapted from existing vocabularies or standard catalogs rather than uniquely created via original data and artistic intuition. To design a window, for instance, you start not only with the abstract function of modulating light rays and breezes to serve interior space but with the image of window—of all the windows you know plus others you find out about. This approach is symbolically and functionally conventional, but it promotes an architecture of meaning, broader and richer if less dramatic than the architecture of expression.

We have shown how heroic and original (H&O) architecture derives dramatic expression from the connotative meanings of its "original" elements: It gives off abstract meanings—or rather, expressions—recognizable in the physiognomic character of the architectural elements. Ugly and ordinary (U&O) architecture, on the other hand, includes denotative meanings as well, derived from its familiar elements; that is, it suggests more or less concrete meanings via association and past experience. The "brutalism" of an H&O fire station comes from its rough texture; its civic monumentality comes from its big scale; the expression of structure and program and "truth to materials" comes from the particular articulations of its forms. Its total image derives from these purely architectural qualities transmitted through abstract forms, tex-

5. Robert Venturi, *Complexity and Contradiction in Architecture* (New York: The Museum of Modern Art and Graham Foundation, 1966).

tures, and colors, carefully composed (Fig. 115). The total image of our U&O fire house—an image implying civic character as well as specific use—comes from the conventions of roadside architecture that it follows; from the decorated false facade, from the banality through familiarity of the standard aluminum sash and roll-up doors, and from the flagpole in front—not to mention the conspicuous sign that identifies it through spelling, the most denotative of symbols: FIRE STATION NO. 4 (Fig. 116). These elements act as symbols as well as expressive architectural abstractions. They are not merely ordinary but represent ordinariness symbolically and stylistically; they are enriching as well, because they add a layer of literary meaning.

Richness can come from conventional architecture. For 300 years European architecture was variations on a Classical norm—a rich conformity. But it can also come through an adjusting of the scale or context of familiar and conventional elements to produce unusual meanings. Pop artists used unusual juxtapositions of everyday objects in tense and vivid plays between old and new associations to flout the everyday interdependence of context and meaning, giving us a new interpretation of twentieth-century cultural artifacts. The familiar that is a little off has a strange and revealing power.

The double-hung window in Guild House is familiar in form but unusually large in size and horizontal in proportion, like the big, distorted Campbell Soup can in Andy Warhol's painting. This typical window is also juxtaposed with a smaller window of the same form and proportion. The exact location of the bigger window on a parallel plane behind the smaller window tends to disturb the habitual perception of distance through perspective; the resultant symbolic and optical tensions are, we maintain, a means of making boring architecture interesting—a more valid means than the irrelevant articulations of today's strident but boring minimegastructures (Fig. 117).

AGAINST DUCKS, OR UGLY AND ORDINARY OVER HEROIC AND ORIGINAL, OR THINK LITTLE

We should not emphasize the ironic richness of banality in today's artistic context at the expense of discussing the appropriateness and inevitability of U&O architecture on a wider basis. Why do we uphold the symbolism of the ordinary via the decorated shed over the symbolism of the heroic via the sculptural duck? Because this is not the time and ours is not the environment for heroic communication through pure architecture. Each medium has its day, and the rhetorical environmental statements of our time—civic, commercial, or residential—will come from media more purely symbolic, perhaps less static and more adapt-

able to the scale of our environment. The iconography and mixed media of roadside commercial architecture will point the way, if we will look.

Housing for the elderly on the Oak Street Connector, if it had to be a monument, would have been more economical, socially responsible, and amenable as a conventional apartment building, lost by the side of the expressway, with a big sign on top blinking, I AM A MONUMENT. Decoration is cheaper (Fig. 139).

THEORIES OF SYMBOLISM AND ASSOCIATION IN ARCHITECTURE

Basic to the argument for the decorated shed is the assumption that symbolism is essential in architecture and that the model from a previous time or from the existing city is part of the source material, and the replication⁶ of elements is part of the design method of this architecture. That is, architecture that depends on association in its perception depends on association in its creation.

We have approached the justification of symbolism in architecture pragmatically, using concrete examples, rather than abstractly through the science of semiotic or through *a priori* theorizing.⁷ However, other approaches have rendered similar results. Alan Colquhoun has written of architecture as part of a "system of communications within society" and describes the anthropological and psychological basis for the use of a typology of forms in design, suggesting that not only are we not "free from the forms of the past, and from the availability of these forms as typological models, but that, if we assume we are free, we have lost control over a very active sector of our imagination and of our power to communicate with others."⁸

Colquhoun describes the essentially "representational" quality of the artifacts of primitive culture and their relationships, and discusses the continuing anthropological basis for "iconic values" in the products of technology. The cosmological systems of primitive peoples were not "close to nature" but intellectual and artificial. Colquhoun illustrates

6. G. Hersey, "Replication Replicated," *Perspecta 10, The Yale Architectural Journal*, New Haven (1955), pp. 211-248.

7. These abstract approaches have recently been explored in a series of essays edited by Charles Jencks and George Baird, *Meaning in Architecture* (New York: George Braziller, 1969). We are indebted particularly to the formulations of Charles Jencks, George Baird, and Alan Colquhoun.

8. Alan Colquhoun, "Typology and Design Method," *Arena, Journal of the Architectural Association* (June 1967), pp. 11-14, republished in Charles Jencks and George Baird, *Meaning in Architecture*.

this point by quoting from Claude Lévi-Strauss's description of kinship systems:⁹

"Certainly the biological family is present and persists in human society. But what gives to kinship its character as a social fact is not what it must conserve of nature; it is the essential step by which it separates itself from nature. A system of kinship does not consist of objective blood ties; it exists only in the consciousness of men; it is an arbitrary system of representations, not the spontaneous development of a situation of fact."

Colquhoun claims that there is a

"parallel between such systems and the way modern man still approaches the world. And what was true of primitive man in all the ramifications of his practical and emotional life—namely the need to *represent* the phenomenal world in such a way that it becomes a coherent and logical system—persists in our own organizations, and more particularly in our attitude toward the man-made objects of our environment."¹⁰

The perceptual-psychological necessity for representation in art and architecture in Colquhoun's argument is based on E. H. Gombrich's book *Meditations on a Hobby Horse*. Gombrich rejects the belief born of Modern Expressionist theory that "shapes have physiognomic or expressive content which communicates itself to us directly."¹¹ He demonstrates, Colquhoun says, that

"the arrangement of forms such as found in a painting by Kandinsky is in fact very low in content, unless we attribute to these forms some system of conventional meanings not inherent in the forms themselves. His thesis is that physiognomic forms are ambiguous, though not wholly without expressive value, and that they can only be interpreted within a particular cultural ambience."¹²

Gombrich illustrates this by reference to the supposed inherent affective qualities of color exemplified in traffic signals; and Colquhoun cites the recent adoption by the Chinese of the color red for go, indicating action and forward movement, and of green for stop, indicating inaction and caution—this easy reversal itself indicating the triumph of con-

9. Claude Lévi-Strauss, *Structural Anthropology* (New York: Basic Books, 1963).

10. Colquhoun, "Typology and Design Method," pp. 11-14.

11. E. H. Gombrich, *Meditations on a Hobby Horse and Other Essays on Art* (London: Phaidon Press; Greenwich, Conn.: New York Graphic Society, 1963), pp. 45-69.

12. Colquhoun, "Typology and Design Method," pp. 11-14.

vention over physiognomy in our understanding of the meaning of form.

Colquhoun argues against the proposition of Modern architecture that form should be the result of the application of physical or mathematical laws rather than of previous association or aesthetic ideologies. Not only are these laws themselves human constructs, but in the real world, even the world of advanced technology, they are not totally determining; there are areas of free choice. If "in a world of pure technology this area is invariably dealt with by adapting previous solutions," then even more will this be the case in architecture where laws and facts are still less capable of leading directly to form. He grants that systems of representation are not altogether independent of the facts of the objective world, and indeed "the modern movement in architecture was an attempt to modify the representational systems which had been inherited from the pre-industrial past, and which had no longer seemed operable within the context of a rapidly changing technology."¹³

The viewing of physical laws and empirical facts as the fundamental source of form in Modern architectural theory Colquhoun calls "bio-technical determinism":

"And it is from this theory that the current belief in the supreme importance of scientific methods of analysis and classification derives. The essence of the functional doctrine of the modern movement was not that beauty or order or meaning were unnecessary, but that it could no longer be found in the deliberate search for final form, and the path by which the artifact affected the observer aesthetically was seen as short-circuiting the process of formalization. Form was merely the result of a logical process by which the operational needs and the operational techniques were brought together. Ultimately these would fuse in a kind of biological extension of life, and function and technology would become totally transparent."¹⁴

The limitations inherent in this approach, even for technical engineering problems, were acknowledged—obliquely—in Modern theory. But they were to be overcome through the integrating magic of intuition and without reference to historical models. That form results from intention as well as deterministic process was acknowledged in the writings of Le Corbusier, Laszlo Moholy-Nagy, and other leaders of the Modern movement in their descriptions of the "intuition," "imagination," "inventiveness," and "free and innumerable plastic events" that regulate architectural design. What resulted, Colquhoun says, was a "tension of two apparently contradictory ideas—biological determinism on one hand, and free expression on the other," within the doctrine of the

13. Ibid.

14. Ibid.

Modern movement. Through excluding a body of traditional practice for the sake of "science," a vacuum was left that was filled ironically by a form of permissive expressionism: "What appears on the surface as a hard, rational discipline of design, turns out rather paradoxically to be a mystical belief in the intuitive process."¹⁵

FIRMNESS + COMMODITY \neq DELIGHT: MODERN ARCHITECTURE AND THE INDUSTRIAL VERNACULAR

Vitruvius wrote, via Sir Henry Wootton, that architecture was Firmness and Commodity and Delight. Gropius (or perhaps only his followers) implied, via the bio-technical determinism just described, that Firmness and Commodity equal Delight; that structure plus program rather simply result in form; that beauty is a by-product; and that—to tamper with the equation in another way—the process of making architecture becomes the image of architecture. Louis Kahn in the 1950s said that the architect should be surprised by the appearance of his design (Fig. 118).

Presumed in these equations is that process and image are never contradictory and that Delight is a result of the clarity and harmony of these simple relationships, untinged, of course, by the beauty of symbolism and ornament or by the associations of preconceived form: Architecture is frozen process.

The historians of the Modern movement concentrated on the innovative engineering structures of the nineteenth and early twentieth centuries as prototypes for Modern architecture, but it is significant that the bridges of Maillart are not architecture, and the hangars of Freyssinet are hardly architecture. As engineering solutions, their programs are simple and without the inherent contradictions of architectural programs. To traverse a ravine directly, safely, and cheaply or to protect a big space from the rain without intervening supports is all that is required of these structures. The unavoidable symbolic content of even such simple, utilitarian constructions and the unavoidable use of what Colquhoun calls typologies were ignored by the theorists of the Modern movement. The not infrequent ornamentation of these forms was excused as a deviant architectural hangover, characteristic of the times. But the ornamentation of utilitarian superstructures is typical of all times. The defensive walls of the medieval city were topped with elaborately varied crenellations and studded with rhetorically ornamented gates. The applied decorations of the classic structures of the Industrial Revolution (we see them as more classic than innovative) are another manifestation of the decorated shed—for example, the elaborated gusset plates of the frame bridges, or the modified Corinthian capitals of the fluted cast-iron columns in loft buildings, or the eclectically stylish en-

trances and fanciful parapets of their fronts.

The decoration of the shed in nineteenth-century industrial architecture was often ignored by architects and theorists of the Modern movement through selective viewing of buildings or through contrived cropping of photographs. Even today as architects stress the complexity of these buildings (for instance, the complex massing and clerestoried roof lines of the mills of the English industrial Midlands) rather than their simplicity, their not infrequent ornament is still discounted.

Mies van der Rohe looked at only the backs of Albert Kahn's factories in the Midwest and developed his minimal vocabulary of steel I-sections framing industrial sash. The fronts of Kahn's sheds almost always contained administrative offices and, being early twentieth-century creations, were graciously Art Deco rather than historical eclectic (Figs. 119, 120). The plastic massing up front, characteristic of this style, grandly contradicted the skeletal behind.

INDUSTRIAL ICONOGRAPHY

More important than Mies's forgetting the decoration was his copying the shed, that is, his deriving associations from the body of the building rather than from its facade. The architecture of the Modern movement, during its early decades and through a number of its masters, developed a vocabulary of forms based on a variety of industrial models whose conventions and proportions were no less explicit than the Classical orders of the Renaissance. What Mies did with linear industrial buildings in the 1940s, Le Corbusier had done with plastic grain elevators in the 1920s, and Gropius had done with the Bauhaus in the 1930s, imitating his own earlier factory, the Faguswerk, of 1911. Their factorylike buildings were more than "influenced" by the industrial vernacular structures of the then recent past, in the sense that historians have described influences among artists and movements. Their buildings were explicitly adapted from these sources, and largely for their symbolic content, because industrial structures *represented*, for European architects, the brave new world of science and technology. The architects of the early Modern movement, in discarding the admittedly obsolete symbolism of historical eclecticism, substituted that of the industrial vernacular. To put it another way, as Romantics still, they achieved a new sensibility through evoking the remote in place—that is, the contemporary industrial quarter on the other side of the tracks, which they transferred to the civic areas of the city—rather than evoking, as did the earlier Romantics, the remote in time through the replication of stylistic ornament of the past. That is, the Moderns employed a design method based on typological models and developed an archi-

tectural iconography based on their interpretation of the progressive technology of the Industrial Revolution (Fig. 121).

Colquhoun refers to the "iconic power" attributed by "those in the field of design who were—and are—preaching pure technology and so-called objective design method . . . to the creations of technology, which they worship to a degree inconceivable in a scientist."¹⁶ He also writes of "the power of all artifacts to become icons . . . whether or not they were specifically created for this purpose," and he cites nineteenth-century steamships and locomotives as examples of objects "made ostensibly with utilitarian purposes in mind" which "quickly become gestalt entities . . . imbued with aesthetic unity" and symbolic quality. These objects, along with the factories and grain elevators, became explicit typological models that, despite what architects said to the contrary, significantly influenced the method of Modern architectural design and served as sources for its symbolic meanings.

INDUSTRIAL STYLING AND THE CUBIST MODEL

Later critics referred to a "machine aesthetic," and others have accepted the term, but Le Corbusier among the Modern masters was unique in elaborately describing industrial prototypes for his architecture in *Vers une Architecture* (Fig. 122). However, even he claimed the steamship and the grain elevator for their forms rather than their associations, for their simple geometry rather than their industrial image. It is significant, on the other hand, that the buildings of Le Corbusier, illustrated in his book, physically resemble the steamships and the grain elevators but not the Parthenon or the furniture in Santa Maria in Cosmedin or Michelangelo's details for Saint Peter's, which are also illustrated for their simple geometric forms. The industrial prototypes became literal models for Modern architecture, while the historical-architectural prototypes were merely analogs selected for certain of their characteristics. To put it another way, the industrial buildings were symbolically correct; the historical buildings were not.

For the abstract geometrical formalism of Le Corbusier's architecture at this time, Cubism was the model. It was the second model, in part countering that of the nautical-industrial images, and it accounted for the hovering, stuccoed planes that enveloped the industrial sash and spiral stairs in the Villa Savoye. Although historians describe the relation between painting and architecture of this period as a harmonious diffusion of the *Zeitgeist*, it was more an adaptation of the language of painting to that of architecture. The systems of pure, simple forms, sometimes transparent, that penetrate flowing space were explicitly

16. Ibid.

associated with Cubism and fitted Le Corbusier's famous definition, of that time, of architecture as "the skillful, accurate and magnificent play of masses seen in light."

SYMBOLISM UNADMITTED

A contradiction between what was said and what was done was typical of early Modern architecture: Walter Gropius decried the term "International Style" but created an architectural style and spread a vocabulary of industrial forms that were quite removed from industrial processes. Adolf Loos condemned ornament yet applied beautiful patterns in his own designs and would have erected the most magnificent, if ironic, symbol in the history of skyscrapers if he had won the *Chicago Tribune* competition. The later work of Le Corbusier started a continuing tradition of unacknowledged symbolism, whose indigenous-vernacular forms, in varying manifestations, are still with us.

But it is the contradiction—or at least the lack of correspondence—between image and substance that confirms the role of symbolism and association in orthodox Modern architecture. As we have said, the symbolism of Modern architecture is usually technological and functional, but when these functional elements work symbolically, they usually do not work functionally, for example, Mies's symbolically exposed but substantively encased steel frame and Rudolph's *béton brut* in concrete block or his "mechanical" shafts used for an apartment house rather than a research lab. Some latter-day Modern architectural contradictions are the use of flowing space for private functions, glass walls for western exposures, industrial clerestories for suburban high schools, exposed ducts that collect dust and conduct sound, mass-produced systems for underdeveloped countries, and the impressions of wooden formwork in the concrete of high-labor-cost economies.

We catalog here the failures of these functional elements to function as structure, program, mechanical equipment, lighting, or industrial process, not to criticize them (although on functional grounds they should be criticized), but to demonstrate their symbolism. Nor are we interested in criticizing the functional-technological content of early Modern architectural symbolism. What we criticize is the symbolic content of current Modern architecture and the architect's refusal to acknowledge symbolism.

Modern architects have substituted one set of symbols (Cubist-industrial-process) for another (Romantic-historical-eclecticism) but without being aware of it. This has made for confusing and ironic contradictions that are still with us. The diversity of styles (not to mention the syntactical correctness and suave precision) of the architecture of the 1960s might challenge the versatility of a Victorian eclectic of the 1860s. The

following models serve as sources for symbolic representation in our best buildings today: Cape Kennedy launching pads (Fig. 123); the industrial vernacular of the English Midlands (Fig. 124); Victorian greenhouses (Fig. 125); Futurist zoots (Fig. 126); Constructivist protomega-structures (Fig. 127); space frames (Fig. 128); Piranesian *carceri* (Fig. 129); plastic forms indigenous to the Mediterranean (Fig. 130); pedestrian scale, medieval-space Tuscan hill towns (Fig. 131); and the works of the form givers of the Heroic period (Fig. 132).

FROM LA TOURETTE TO NEIMAN-MARCUS

The stylistic evolution from La Tourette to Neiman-Marcus is a characteristic development of form-giver symbolism in late Modern architecture. Le Corbusier's tense manifestation of late genius, a monastery in a Burgundian field (Fig. 133), is itself a brilliant adaptation of a white plastic vernacular of the eastern Mediterranean. Its forms became an Art and Architecture Building on a street corner in New Haven (Fig. 134), a brick laboratory on the campus at Cornell (Fig. 135), and a *palazzo pubblico* in a piazza in Boston (Fig. 136). A latest version of this Burgundian cloister is a department store off the Westheimer strip in suburban Houston—a pure symbol of progressive gentility set in a sea of parking (Figs. 137, 138). Again, we do not criticize these replications of a classic masterpiece in a different place for a different use, although we suggest the replication would have been done better if it had been accepted philosophically and used wittily, as in the case of a Beaux-Arts department store designed after an Italian palazzo. This series of buildings from Burgundy to Texas illustrates the Modern architect's tendency to glorify originality through copying it.

SLAVISH FORMALISM AND ARTICULATED EXPRESSIONISM

Substituting nonfunctioning imitations of a deterministic process for preconceived form has resulted not only in confusion and irony but in a formalism that is the more slavish for being unadmitted. Those planners and architects who decry formalism in architecture are frequently rigid and arbitrary when the time comes for committing their projects to form. Urban designers, having learned the antiformalist pieties of the architectural profession and the critique of "physical bias" of the planning profession, are often caught in this dilemma. Once the "planning process" has been planned and the "guidelines for development" have been set, plans are filled in with hypothetical buildings to show "possible developments" using the fashionable shapes of the architectural leader fancied by the recent graduate who happens to be "on the design side" of the project in the office at that time, whether or not this

leader's formal vocabulary would be more relevant to the problem than some other formal vocabulary.

The substitution of expression for representation through disdain for symbolism and ornament has resulted in an architecture where expression has become expressionism. Owing perhaps to the meager meanings available from abstract forms and unadorned functional elements, the characteristic forms of late Modern architecture are often overstated. Conversely, they are often understated in their context as with Latourette on the Westheimer strip. Louis Kahn once called exaggeration the architect's tool to create ornament. But exaggeration of structure and program (and, in the 1950s and 1960s, mechanical equipment, that is, ducts equal decoration) has become a substitute for ornament.

ARTICULATION AS ORNAMENT

To replace ornament and explicit symbolism, Modern architects indulge in distortion and overarticulation. Strident distortion at large scale and "sensitive" articulation at small scale result in an expressionism that is, to us, meaningless and irrelevant, an architectural soap opera in which to be progressive is to look outlandish. On the one hand, consider all those residential, civic, and institutional buildings whose thin complexities (stepped terraces; accordion sections, or plans, or elevations; cantilevered clerestories; diagonal zoots; textured striations and flying bridges or buttresses) almost parallel the strident distortions of a McDonald's hamburger stand but lack the commercial program and distracting setting that justify the stridency of Strip architecture. On the other hand, consider sensitively articulated structural frames and cantilevered bays that modulate a facade, define interior spaces, or reflect variations in the program. These busy bumps and subtle dents are put there for scale and rhythm and richness too, but they are as irrelevant and meaningless as the pilaster bas-relief on a Renaissance palace (which they resemble), because they are seen mostly in big spaces (often parking lots) and at high speeds.

Articulated architecture today is like a minuet in a discotheque, because even off the highway our sensibilities remain attuned to its bold scale and detail. Perhaps in the cacaphonic context of our real landscape we are impatient with any architectural detail at all. Furthermore, sensitive articulation is an expensive luxury best eliminated before the bids come in. The two-foot cantilever on the face of a building, put there to suit a sensitive nuance of the program discerned only by the architect, is a hangover from more stable times. Today programs can change during the course of construction. We cannot afford too-literal conjunctions between form and transient functions. In sum, while today's forms are too strident for their function in our environment, to-



115. Central Fire Station, New Haven, 1959-1962; Earl P. Carlin, Architect; Paul E. Pozzi, Peter Millard, Associates



116. Fire Station No. 4, Columbus, Indiana, 1965-1967; Venturi and Rauch



117. Guild House, windows

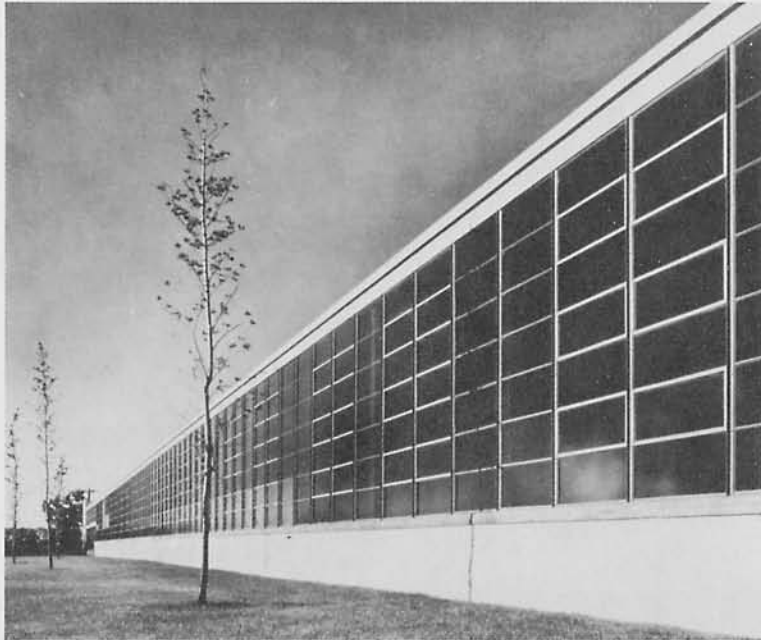
VITRUVIUS:

- Ⓐ Firmness +
- Ⓑ Commodity +
- Ⓒ Delight

GROPIUS:

$$\text{Ⓐ} + \text{Ⓑ} = \text{Ⓒ}$$

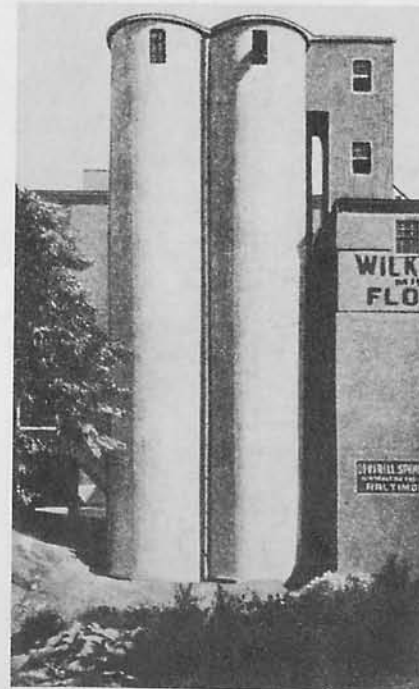
118. Vitruvius and Gropius



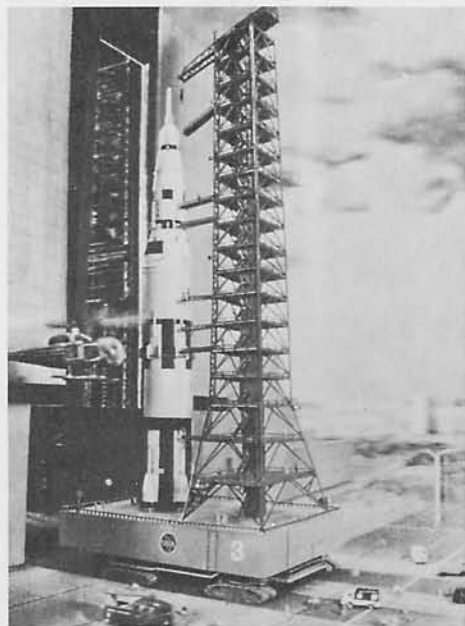
119. Plant for Lady Esther, Ltd., Clearing, Illinois; Albert Kahn



121. Bauhaus, Dessau, Germany, 1925-1926; Walter Gropius



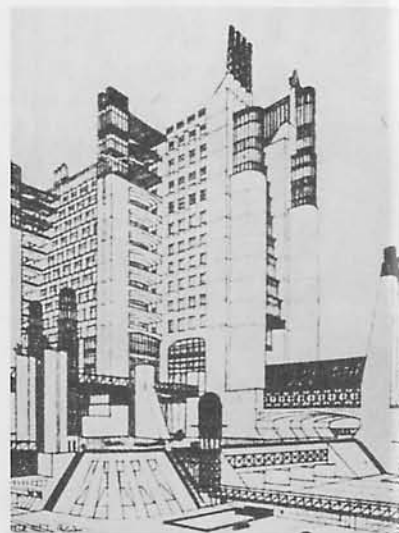
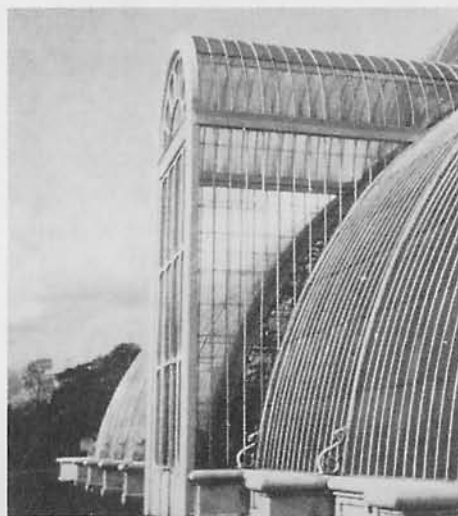
122. Grain elevator from Le Corbusier's



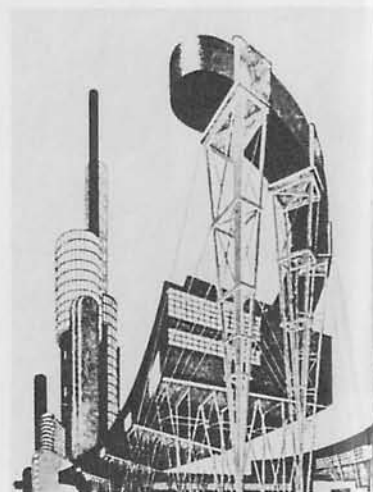
123. Cape Kennedy



124. St. Stephen's Maltings, Canterbury



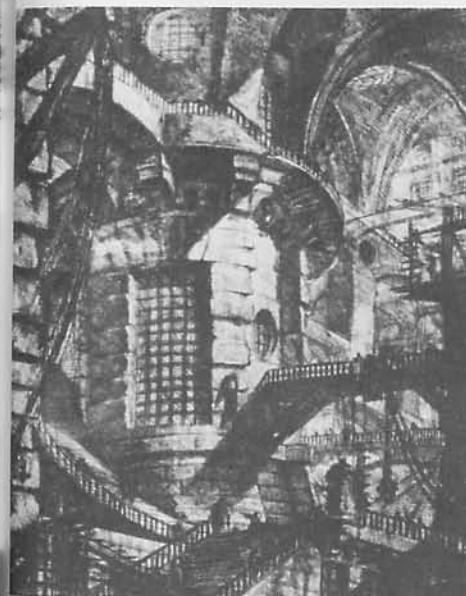
126. Project for a Subway, 1914; Antonio Sant'Elia



127. Russian Constructivist sketch of industrial building from Tchernikov's 101 Fantasies



128. Geodesic "Playdome"; Buckminster Fuller



129. Carceri; Giovanni Battista Piranesi



130. Procida, Italy



131. Piazza Cavour, San Gimignano



132. High Court building, Chandigarh, 1951-1956; Le Corbusier



133. Monastery of La Tourette, Evreux, France, 1956-1960;
Le Corbusier



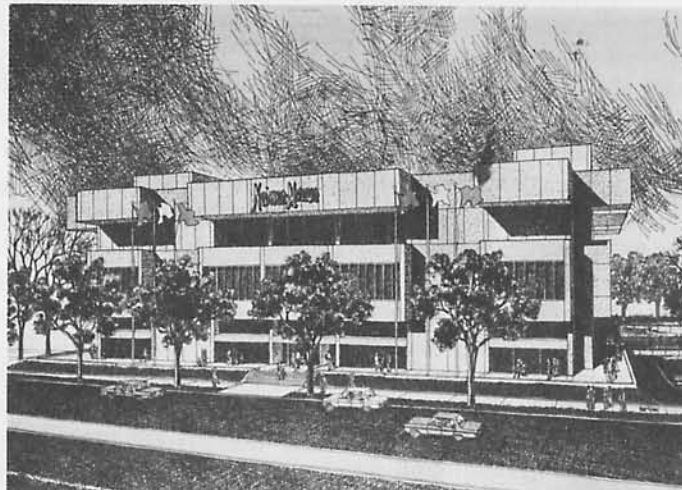
134. Yale University Art and Architecture
Building, New Haven, 1962-1963; Paul
Rudolph



135. Cornell University Agronomy Building,



136. City Hall, Boston, 1963; Kallman, McKinnell, and Knowles



137. Neiman-Marcus store, Houston, Texas; Hellmuth, Obata,
and Kassabaum



day's details are too sensitive for the timbre of our environment. However, at the opposite extreme, there is an individual need for intimacy and detail, unmet by Modern design but satisfied by the five-eighths scale reproductions in Disneyland, by the caricatures of human scale in the patios of garden apartments, and by the seven-eighths scale furnishings of the fancy interiors of Levittown model homes.

SPACE AS GOD

Perhaps the most tyrannical element in our architecture now is space. Space has been contrived by architects and deified by critics, filling the vacuum created by fugitive symbolism. If articulation has taken over from ornament in the architecture of abstract expressionism, space is what displaced symbolism. Our heroic and original symbols, from *carceri* to Cape Kennedy, feed our late Romantic egos and satisfy our lust for expressionistic, acrobatic space for a new age in architecture. It's space *and* light—light as an element for distorting space for further dramatization. The spatial replication today of the mills of the nineteenth-century industrial Midlands illustrates the irrelevance of these borrowings. The complex diagonal clerestories and sheer glass walls and roofs of early industrial architecture responded to the need for natural light and the availability of minimum artificial light for a 12-hour working day in a latitude where winter days are short and winters are long. On the other hand, the Manchester mill owner could depend on a cool climate in the summer, low heating standards in the winter and cheap and docile labor to put up with the conditions and repair the leaks. Today, however, most buildings need windows to look out of rather than glass walls for light, because our lighting standards are higher than can be satisfied through daylight alone, and areas of glass must be kept small and ceilings reasonably low to contain the air conditioning and meet the budget. Therefore our aesthetic impact should come from sources other than light, more symbolic and less spatial sources.

MEGASTRUCTURES AND DESIGN CONTROL

Recent Modern architecture has achieved formalism while rejecting form, promoted expressionism while ignoring ornament, and deified space while rejecting symbols. Confusions and ironies result from this unpleasantly complex and contradictory situation. Ironically we glorify originality through replication of the forms of Modern masters. There is little harm in this symbolic individualism except for its effect on the budget, but there *is* harm in imposing on the whole landscape heroic representations of the masters' unique creations. Such symbolic heroism lies behind the Modern proclivity for the megastructure and for

total design. Architects who demand evidence of process in the forms of individual buildings reject it in the form of the city, where it is arguably more defensible. Total design is the opposite of the incremental city that grows through the decisions of many: total design conceives a messianic role for the architect as corrector of the mess of urban sprawl; it promotes a city dominated by pure architecture and maintained through "design review," and supports today's architecture of urban renewal and fine arts commissions. The Boston City Hall and its urban complex are the archetype of enlightened urban renewal. The profusion of symbolic forms, which recall the extravagances of the General Grant period, and the revival of the medieval piazza and its *palazzo pubblico* are in the end a bore. It is too architectural. A conventional loft would accommodate a bureaucracy better, perhaps with a blinking sign on top saying I AM A MONUMENT (Fig. 139).

However, no architecture is not the answer to too much architecture. The reaction of the antiarchitects of *Architectural Design* is perhaps as futile as the endless fondling of irrelevant subtleties at the other extreme in the other magazines, though it is possibly less harmful only because it seldom gets built, plugged in, or inflated. The world science futurist metaphysic, the megastructuralist mystique, and the look-Mano-buildings environmental suits and pods are a repetition of the mistakes of another generation. Their overdependence on a space-age, futurist, or science-fiction technology parallels the machine aestheticism of the 1920s and approaches its ultimate mannerism. They are, however, unlike the architecture of the 1920s, artistically a deadend and socially a cop-out.

The megastructure has been promoted by the elaborate journalism of groups such as Archigram who reject architecture but whose urban visions and mural-scale graphics go beyond the last, megalomaniac gasps of the late Beaux-Arts delineators. Unlike urban sprawl architecture, megastructures lend themselves to total design and to extremely beautiful models, significantly impressive in the boardrooms of cultural foundations or in the pages of *Time* magazine but unrelated to anything achievable or desirable in the present social or technical context. The occasionally witty exercises in Pop imagery of the megastructure visionaries are fine as an end in themselves, more literary than architectural in intent. They are a bore as architectural theory and ultimately, as well as immediately, unresponsive to the real and interesting problems now.

Meanwhile, every community and state is appointing its design review board to promote the architectural revolution of the last generation and corrupt its members through rule-by-man rather than rule-by-law procedures. "Total design" comes to mean "total control" as confident art commissioners who have learned what is right promote a deadening

mediocrity by rejecting the "good" and the "bad" and the new they do not recognize, all of which, in combination and in the end, make the city. (See Appendix.)

MISPLACED TECHNOLOGICAL ZEAL

The old revolutionaries of the fine arts commissions and the new revolutionaries of the megastructures are, in our opinion, equally irrelevant, both socially and artistically. They also share the same tradition in architectural technology, taking the progressive, revolutionary, machine-aesthetic stance of the early Modern architects; part of being "heroic and original" is being advanced technologically. The discrepancies between substance and image in Modern architecture's technological *machismo* and the costliness of its frequently empty gestures emerged earlier than architects would admit. Methods of industrial production turned out to be largely inapplicable to the construction of buildings. Many elegant structural systems (space frames, for instance), although they were highly efficient in relating stress to material and economical for spanning large industrial structures, failed decisively to work within the program, space, and budget of the more prosaic and usual architectural commissions. As Philip Johnson said, you can't put a door in a geodesic dome.

Furthermore, many architects who concentrated on engineering forms ignored other aspects of the building industry, for example, financing, distribution, existing trades, and conventional materials and methods. These important facets, as the developers have known, are highly subject to the improving effects of technology, including managerial technology, and affect the final form and cost of architecture substantially more than does innovative constructional technology. Architects have contributed little to the crucial building needs of this country—especially in housing—partly because their predilections for advanced technology of the symbolic and visionary kind have impeded their effectiveness within the going systems of construction.

While focusing on their favorite form of technological voodooism over the last 40 years (that is, researching industrialized methods of prefabrication), architects have until recently ignored the mobile home industry. This industry, without the architects' help and using a traditional technology—essentially carpentry, which is then related to innovative methods of distribution—is now producing one-fifth of the annual output of housing in America. Architects should forget about being great technical innovators in housing construction and concentrate on adapting this new and useful technology to more broadly defined needs than it serves today and on developing a vivid mobile home symbolism for mass markets (Fig. 140).

WHICH TECHNOLOGICAL REVOLUTION?

It is significant that the "advanced technology" favored by progressive Modern architecture continues to be even today that of mass production and industrialization, nineteenth-century style. Even Archigram's structural visions are Jules Verne versions of the Industrial Revolution with an appliqué of Pop-aerospace terminology (Fig. 141). However, the American aerospace industry itself, the chosen model of latter-day architectural megastructuralists, is facing its own trauma of extinction owing to oversize and overspecialization. As Peter Barnes in the *New Republic* suggests,¹⁷

"From a purely economic standpoint, the aerospace giants have become more of a burden to the nation than an asset. Despite the myriad promises that science holds in store, America does not now need any great new strides forward in technology, at least in the aerospace field. What it needs is breathing space, a chance to evaluate the impact of current technology and to distribute the fruits of progress more equitably. It needs to think small, not big."

According to Barnes, Boeing's "Operation Breakthrough" housing project required \$7,750 per house unit in site-management costs alone, excluding costs of architectural services or construction.

The relevant revolution today is the current electronic one. Architecturally, the symbol systems that electronics purveys so well are more important than its engineering content. The most urgent technological problem facing us is the humane meshing of advanced scientific and technical systems with our imperfect and exploited human systems, a problem worthy of the best attention of architecture's scientific ideologues and visionaries.

For us the most boring pavilions at Expo '67 were those that corresponded to the progressive structures of nineteenth-century world's fairs celebrated by Sigfried Giedion; while the Czech Pavilion—an architectural and structural nonentity, but tattooed with symbols and moving pictures—was by far the most interesting. It also had the longest lines of spectators; the show, not the building, drew the crowd. The Czech Pavilion was almost a decorated shed.

PREINDUSTRIAL IMAGERY FOR A POSTINDUSTRIAL ERA

A language of preindustrial forms has complemented that of industrial forms in late Modern architecture. Le Corbusier's early sketches of Mediterranean villages probably initiated the preoccupation of Modern

17. Peter Barnes, "Aerospace Dinosaurs," *The New Republic*, March 27, 1971, p. 19.

architects and theorists with vernacular, indigenous, or anonymous architecture. The simple, planar geometry of white Mediterranean forms appealed to the Cubist-Purist aesthetic of the young Le Corbusier, and their bold, rude plasticity was transformed into the *béton brut* of his late work. Then *béton brut* became a style—the style after the post-Miesian reaction against frame and panel architecture, with a vocabulary of forms, not to mention an explicit system of proportions, the Modulor, as precise as those of the Renaissance orders.

Architects who have adapted the forms of La Tourette for heroic symbolic purposes far removed from their original meaning, in using them in precast units, brick and baked enamel, from the industrial parks of New Jersey to the architectural monuments of Tokyo, have also harked back to the Mediterranean handcraft vernacular that inspired La Tourette. Vernacular models are popular where advanced technology is, even for Modern architects, farfetched, that is, for individual houses in the suburbs. The acceptance of primitive vernacular architecture has let in traditional architecture by the back door in the name of “regionalism.” Today even traditional American shed roofs and boards-and-battens are accepted and replace the flat roofs and imitation concrete that architects strove for and clients resisted in suburbia.

What architects now call anonymous architecture comes close to what we are calling Ordinary architecture, but it is not the same because it eschews symbolism and style. While architects have adapted the simple forms of vernacular architecture, they have largely ignored the complex symbolism behind them. They themselves have used the vernacular vocabularies symbolically, to suggest association with the past and simple, deterministic virtue, that is, as early examples of a correspondence between structural methods, social organization, and environmental influences, paralleling at a primitive level the benign processes that shape the industrial vernacular. Yet, ironically, architects—except for Aldo van Eyck in Africa and Gunther Nitschke in Japan—have discounted the symbolic values that invest these forms and dominate, so anthropologists tell us, the artifactual environment of primitive cultures, often contradicting function and structure in their influence on form.

FROM LA TOURETTE TO LEVITTOWN

It is a further irony that Modern architects, who can embrace vernacular architecture remote in place or time, can contemptuously reject the current vernacular of the United States, that is, the merchant builders' vernacular of Levittown and the commercial vernacular of Route 66. This aversion to the conventional building around us could be an exotic survival of nineteenth-century Romanticism, but we think it is merely that architects are able to discern the symbolism in the forms of their

own vernacular. They are unable to discern, either through ignorance or detachment, the symbolism of Mykonos or the Dogon. They understand the symbolism of Levittown and do not like it, nor are they prepared to suspend judgment on it in order to learn and, by learning, to make subsequent judgment more sensitive (Fig. 142). The content of the symbols, commercial hucksterism and middle-middle-class social aspiration, is so distasteful to many architects that they are unable to investigate openmindedly the basis for the symbolism or to analyze the forms of suburbia for their functional value; indeed they find it difficult to concede that any “liberal” architect could do so.¹⁸

Architects who find middle-middle-class social aspirations distasteful and like uncluttered architectural form see only too well the symbolism in the suburban residential landscape—for instance, in its stylish “bi-levels” in the Regency, Williamsburg, New Orleans, French Provincial, or Prairie-Organic modes, and its ornamented ranches with carriage lanterns, mansards, and antiqued brick. They recognize the symbolism, but they do not accept it. To them the symbolic decoration of the split-level suburban sheds represents the debased, materialistic values of a consumer economy where people are brainwashed by mass marketing and have no choice but to move into the tacky-tacky, with its vulgar violations of the nature of materials and its visual pollution of architectural sensibilities, and surely, therefore, the ecology.

This viewpoint throws out the variety with the vulgarity. In dismissing the architectural value of the Strip, it discounts also its simple and commonsense functional organization, which meets the needs of our sensibilities in an automobile environment of big spaces and fast movement, including the need for explicit and heightened symbolism. Similarly, in suburbia, the eclectic ornament on and around each of the relatively small houses reaches out to you visually across the relatively big lawns and makes an impact that pure architectural articulation could never make, at least in time, before you have passed on to the next house. The lawn sculpture partway between the house and the curving curb acts as a visual booster within this space, linking the symbolic architecture to the moving vehicle. So sculptural jockeys, carriage lamps, wagon wheels, fancy house numbers, fragments of split-rail fences, and mailboxes on erect chains all have a spatial as well as a symbolic role. Their forms identify vast space as do the urns in Le Nôtre's parterres, the ruined temples in English parks, and the sign in the A&P parking lot (Fig. 143).

But the symbolic meanings of the forms in builder's vernacular also serve to identify and support the individualism of the owner. The occu-

18. This, perhaps, accounts for the fact that we have been called “Nixonites,” “Reaganites,” or the equivalent, by Roger Montgomery, Ulrich Franzen, Kenneth Frampton, and a whole graduating class of Cooper Union.

pant of an anonymous vernacular tenement on an Italian medieval street could achieve identity through decoration on a front door—or perhaps through the *bella figura* of clothing—within the scale of a spatially limited, foot-going community. The same held for families behind the unified facades of Nash's London terraces. But for the middle-class suburbanite living, not in an antebellum mansion, but in a smaller version lost in a large space, identity must come through symbolic treatment of the form of the house, either through styling provided by the developer (for instance, split-level Colonial) or through a variety of symbolic ornaments applied thereafter by the owner (the Rococo lamp in the picture window or the wagon wheel out front, Fig. 144).

The critics of suburban iconography attribute its infinite combinations of standard ornamental elements to clutter rather than variety. This can be dismissed by suburbia's connoisseurs as the insensitivity of the uninitiate. To call these artifacts of our culture crude is to be mistaken concerning scale. It is like condemning theater sets for being crude at five feet or condemning plaster *putti*, made to be seen high above a Baroque cornice, for lacking the refinements of a Mino da Fiesole bas-relief on a Renaissance tomb. Also, the boldness of the suburban doodads distracts the eye from the telephone poles that even the silent majority does not like.

SILENT-WHITE-MAJORITY ARCHITECTURE

Many people like suburbia. This is the compelling reason for learning from Levittown. The ultimate irony is that although Modern architecture from the start has claimed a strong social basis for its philosophy, Modern architects have worked to keep formal and social concerns separate rather than together. In dismissing Levittown, Modern architects, who have characteristically promoted the role of the social sciences in architecture, reject whole sets of dominant social patterns because they do not like the architectural consequences of these patterns. Conversely, by defining Levittown as "silent-white-majority" architecture, they reject it again because they do not like what they believe to be the silent white majority's political views. These architects reject the very heterogeneity of our society that makes the social sciences relevant to architecture in the first place. As Experts with Ideals, who pay lip service to the social sciences, they build for Man rather than for people—this means, to suit themselves, that is, to suit their own particular upper-middle-class values, which they assign to everyone. Most suburbanites reject the limited formal vocabularies architects' values promote, or accept them 20 years later modified by the tract builder: The Usonian house becomes the ranch house. Only the very poor, via public

housing, are dominated by architects' values. Developers build for markets rather than for Man and probably do less harm than authoritarian architects would do if they had the developers' power.

One does not have to agree with hard-hat politics to support the rights of the middle-middle class to their own architectural aesthetics, and we have found that Levittown-type aesthetics are shared by most members of the middle-middle class, black as well as white, liberal as well as conservative. If analyzing suburbia's architecture implies that one has let the Nixon regime "penetrate even the field of architectural criticism,"¹⁹ then the field of urban planning has been infiltrated by Nixonites for more than 10 years—by Abrams, Gans, Webber, Dyckman, and Davidoff. For our critique is nothing new; the social planners have been making it for more than a decade. But in this Nixon-silent-majority diatribe, especially in its architectural, as opposed to its racial and military, dimensions, there is a fine line between liberalism and old-fashioned class snobbery.

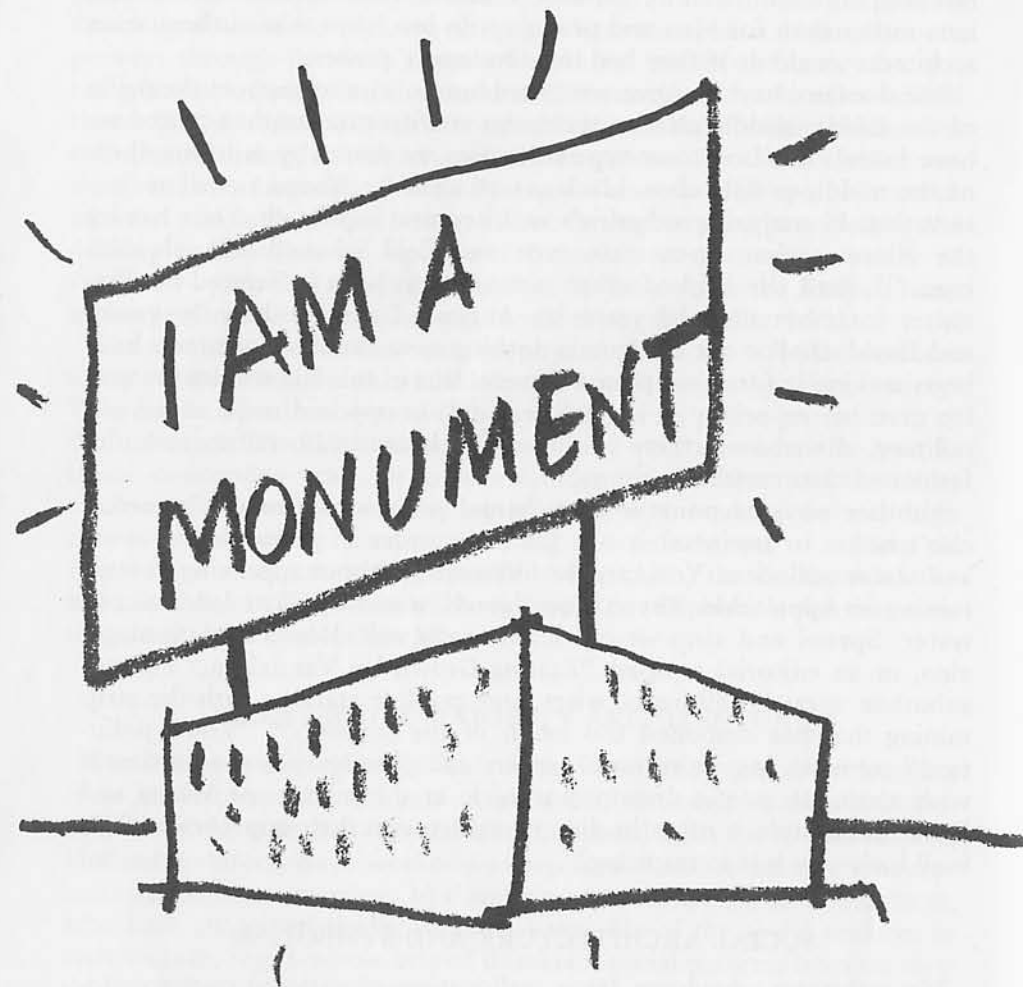
Another obvious point is that "visual pollution" (usually someone else's house or business) is not the same order of phenomenon as air and water pollution. You can like billboards without approving of strip mining in Appalachia. There is no "good" way to pollute land, air, or water. Sprawl and strip we can learn to do well. However, *Life* magazine, in an editorial entitled "Erasing Grown-Up Vandalism," equates suburban sprawl, billboards, wires, and gasoline stations with the strip mining that has despoiled too much of the country.²⁰ "Visual pollution" seems to inspire editorial writers and photographers, who view it with alarm, to poetic descriptions of it in the manner of Milton and Doré. Their style is often in direct conflict with their opprobrium. If it is all bad, why is it so inspiring?

SOCIAL ARCHITECTURE AND SYMBOLISM

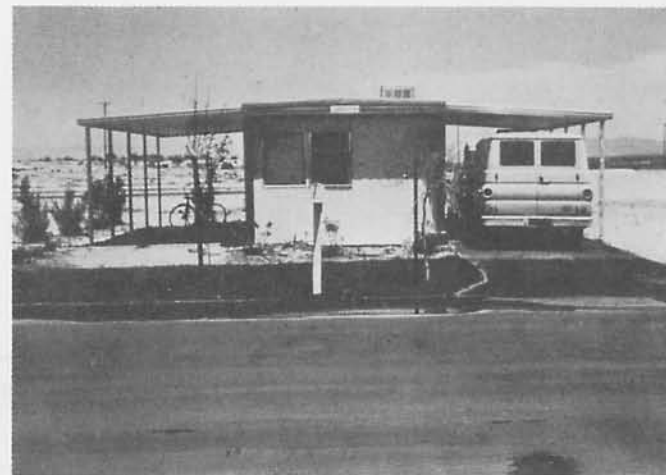
We architects who hope for a reallocation of national resources toward social purposes must take care to lay emphasis on the purposes and their promotion rather than on the architecture that shelters them. This reorientation will call for ordinary architecture, not ducks. But when there is little money to spend on architecture, then surely greatest architectural imagination is required. Sources for modest buildings and images with social purpose will come, not from the industrial past, but from the everyday city around us, of modest buildings and modest spaces with symbolic appendages.

19. Ulrich Franzen, *Progressive Architecture*, Letter to the Editor (April 1970), p. 8.

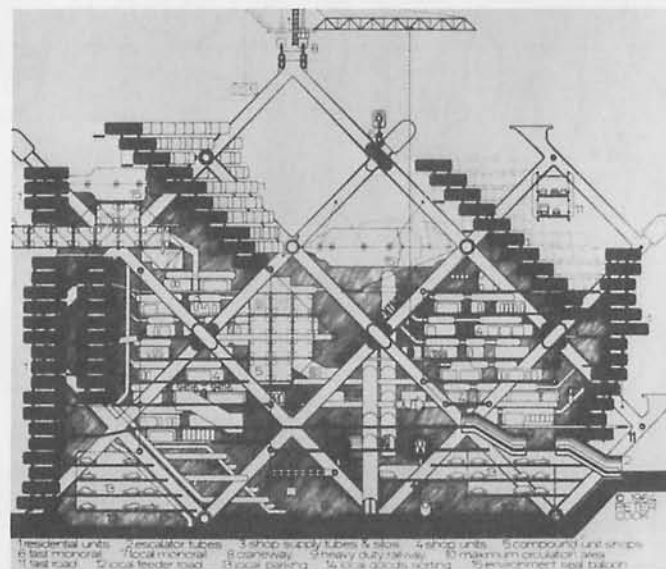
20. *Life* (April 9, 1971), p. 34. Direct quotation was not permitted.



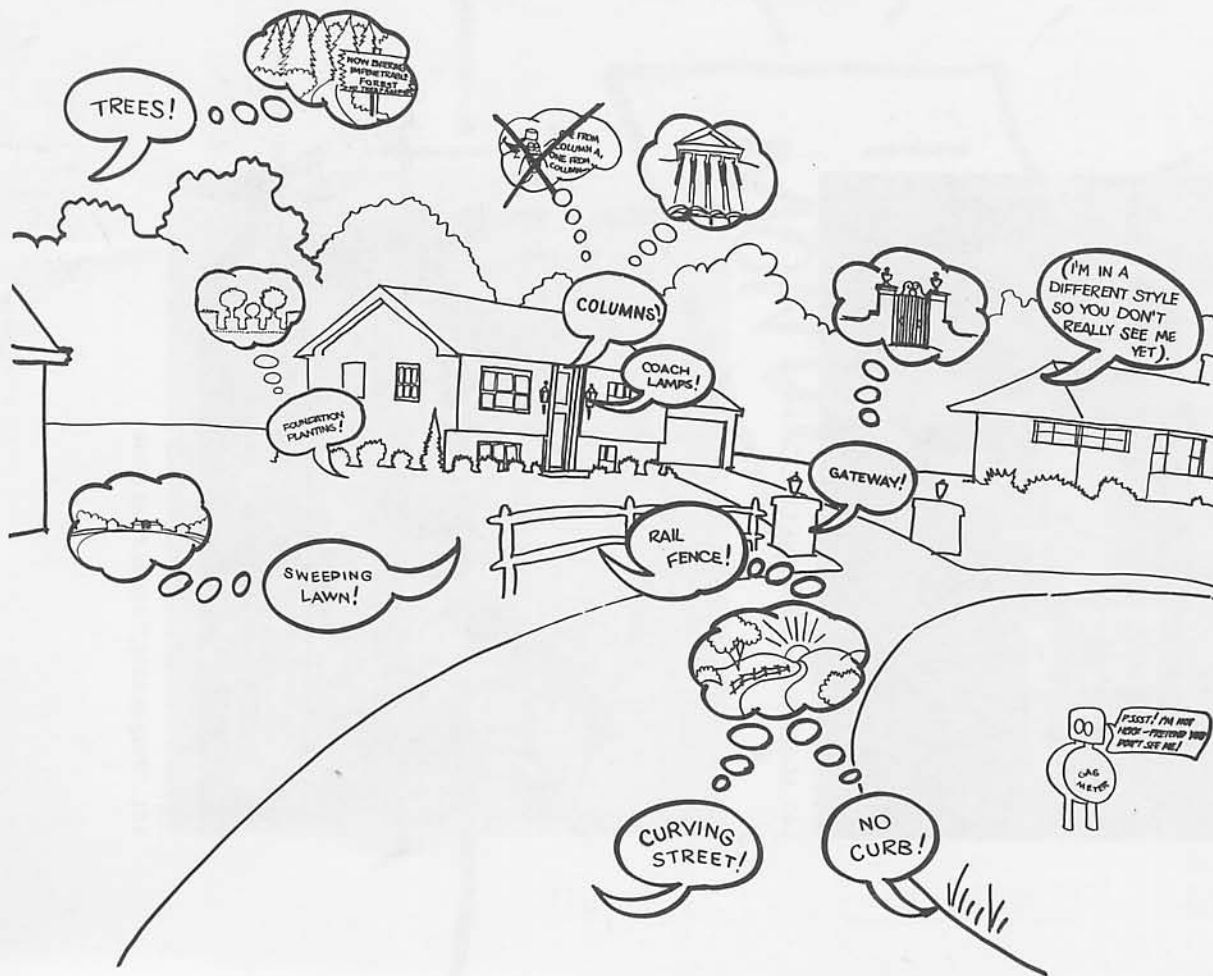
139. Recommendation for a monument



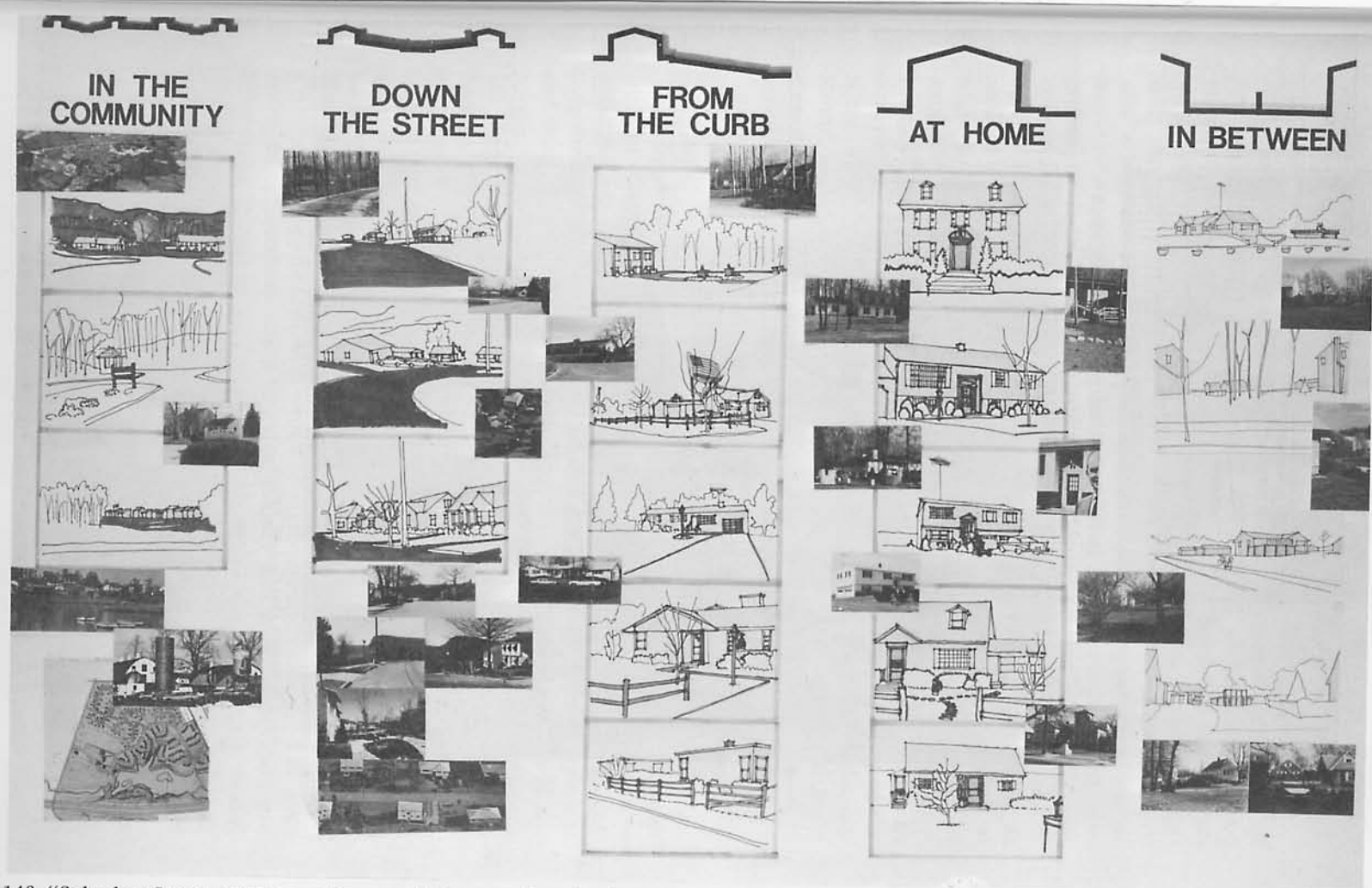
140. Mobile home, California City, California



141. "Plug-in City," 1964; Peter Cook



142. "Precedents of Suburban Symbols," Learning from Levittown studio, Yale, 1970



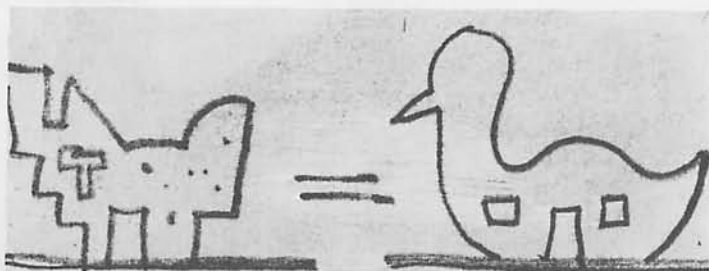
143. "Suburban Space, Sprawl, and Imagery," Learning from Levittown studio, Yale, 1970



144. Developer's house with applied symbols



145. Flamingo Hotel, Las Vegas



146. Minimalist architecture

Meeting the architectural implications and the critical social issues of our era will require that we drop our involuted, architectural expressionism and our mistaken claim to be building outside a formal language and find formal languages suited to our times. These languages will incorporate symbolism and rhetorical appliqué. Revolutionary eras are given to didactic symbolism and to the propagandistic use of architecture to promote revolutionary aims. This is as true for the symbolism of today's ghetto rebuilders (African militant or middle-class conservative) as it was for the Romantic Roman republican symbolism of revolutionary France. Boullé was a propagandist and symbolist as well as a formalist. He saw, as we must see, architecture as symbol in space before form in space. To find our symbolism we must go to the suburban edges of the existing city that are symbolically rather than formalistically attractive and represent the aspirations of almost all Americans, including most low-income urban dwellers and most of the silent white majority. Then the archetypal Los Angeles will be our Rome and Las Vegas our Florence; and, like the archetypal grain elevator some generations ago, the Flamingo sign will be the model to shock our sensibilities towards a new architecture (Fig. 145).

HIGH-DESIGN ARCHITECTURE

Finally, learning from popular culture does not remove the architect from his or her status in high culture. But it may alter high culture to make it more sympathetic to current needs and issues. Because high culture and its cultists (last year's variety) are powerful in urban renewal and other establishment circles, we feel that people's architecture as the people want it (and not as some architect decides Man needs it) does not stand much chance against urban renewal until it hangs in the academy and therefore is acceptable to the decision makers. Helping this to happen is a not-reprehensible part of the role of the high-design architect; it provides, together with moral subversion through irony and the use of a joke to get to seriousness, the weapons of artists of nonauthoritarian temperament in social situations that do not agree with them. The architect becomes a jester.

Irony may be the tool with which to confront and combine divergent values in architecture for a pluralist society and to accommodate the differences in values that arise between architects and clients. Social classes rarely come together, but if they can make temporary alliances in the designing and building of multivalued community architecture, a sense of paradox and some irony and wit will be needed on all sides.

Understanding the content of Pop's messages and the way that it is projected does not mean that one need agree with, approve of, or repro-

duce that content. If the commercial persuasions that flash on the strip are materialistic manipulation and vapid subcommunication,²¹ which cleverly appeal to our deeper drives but send them only superficial messages, it does not follow that we architects who learn from their techniques must reproduce the content or the superficiality of their messages. (But we *are* indebted to them for helping us to recognize that Modern architecture too has a content and a vapid one at that.) Just as Lichtenstein has borrowed the techniques and images of the comics to convey satire, sorrow, and irony rather than violent high adventure, so may the architect's high reader suggest sorrow, irony, love, the human condition, happiness, or merely the purpose within, rather than the necessity to buy soap or the possibility of an orgy. On the other hand, the interpretation and evaluation of symbolic content in architecture is an ambiguous process. The didactic symbolism of Chartres may represent to some the subtleties of medieval theology and to others the depths of medieval superstition or manipulation. Manipulation is not the monopoly of crass commercialism. And manipulation works both ways: Commercial interests and the billboard lobby manipulate, but so do cultural lobbies and design review boards, when they use their intimidating prestige to promote antisign legislation and beautification.

SUMMARY

The progressive, technological, vernacular, process-oriented, superficially socially concerned, heroic and original content of Modern architecture has been discussed before by critics and historians. Our point is that this content did not flow inevitably from the solving of functional problems but arose from Modern architects' unexplicated iconographic preferences and was manifest through a language—several languages—of form, and that formal languages and associational systems are inevitable and good, becoming tyrannies only when we are unconscious of them. Our other point is that the content of the unacknowledged symbolism of current Modern architecture is silly. We have been designing dead ducks.

We do not know if the time will come for serious architectural oceanographic urbanism, for example, as opposed to the present offshore posturing of the world futurist architectural visionaries. We suspect that one day it may, though hardly in the forms now envisioned. As practicing architects in the here and now, we do not have much interest in such predictions. We do know, however, that the chief resources of our society go into things with little architectural potential: war, electronic communication, outer space, and, to a much lesser extent, social serv-

ices. As we have said, this is not the time and ours is not the environment for heroic communication via pure architecture.

When Modern architects righteously abandoned ornament on buildings, they unconsciously designed buildings that *were* ornament. In promoting Space and Articulation over symbolism and ornament, they distorted the whole building into a duck. They substituted for the innocent and inexpensive practice of applied decoration on a conventional shed the rather cynical and expensive distortion of program and structure to promote a duck; minimegastructures are mostly ducks (Fig. 146). It is now time to reevaluate the once-horrifying statement of John Ruskin that architecture is the decoration of construction, but we should append the warning of Pugin: It is all right to decorate construction but never construct decoration.

21. Thomas Maldonado, *La speranza progettuale, ambiente e società*, Chapter 15, Nuovo Politecnico 35 (Turin: Einaudi, 1970).