# STANDARD METHOD FOR METHOD FOR MEASURING FLOOR AREA IN OFFICE BUILDINGS

### **PUBLISHED BY:**

Building Owners and Managers Association International 1201 New York Avenue, N.W., Suite 300 Washington, D.C. 20005 Phone: (202) 408-2662 Fax: (202) 371-0181 Home page: http://www.boma.org

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### **SPECIAL THANKS TO:**

Brigett L. Reilly, RPA, Reilly Asset Management, who provided invaluable leadership for this project both as Chair of BOMA's Standard Method of Floor Measurement Committee and the ANSI Z65.1 Canvass Group

Jean-Pierre Bertrand, RPA, The Montreal General Hospital, who provided immeasurable support both as Vice Chair of BOMA's Standard Method of Floor Measurement Committee and the ANSI Z65.1 Canvass Group

Kent Gibson, CPM, Michael J. Maher, RPA, and Robert Parfet, who provided long-term assistance as members of BOMA's Standard Method of Floor Measurement Committee as well as the Steering Committee of the ANSI Z65.1 Canvass Group

Robert Finke, Phynyx Realty Services, who developed and revised the illustrations that accompany the text; and

Jocelyn Lafond, RPA, President of BOMA/Quebec, who had the illustrations reformatted.

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ISBN: 0-943130-18-2

Published by:
Building Owners and Managers Association International
1201 New York Avenue, N.W., Suite 300
Washington, D.C. 20005
Phone: (202) 408-2662 Fax: (202) 371-0181
Home page: http://www.boma.org
Publication orders: 1-800-426-6292

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### HISTORY

In 1915, the Building Owners and Managers Association (BOMA) International developed the *Standard Method of Floor Measurement for Office Buildings*. This first *Standard* was readily accepted as a national industry standard and stood for over 35 years without amendment. With the advent of 'block type' building design, a revised *Standard* was adopted by BOMA International in 1952. This was further revised in 1955 to become the American National Standard, of which BOMA International was a cosponsor.

In 1971, the Standard was revised to reflect leasing concepts and practices in effect at that time. BOMA International revised the Standard in 1980 to further clarify the point to which measurements are taken relative to the exterior wall of a building, and to establish the basic methods for measuring the office area of a given floor. The 1989 review resulted in a French translation and the addition (not officially part of the Standard) of a Question and Answer section with the most frequently asked questions about the Standard.

This Standard Method for Measuring Floor Area in Office Buildings is the result of joint action by participating organizations under the auspices of the American National Standards Institute. It was originally adopted September 15, 1915. Reissued (without change) December 1, 1925. Revised and reissued December 8, 1952. Revised and readopted December 6, 1955, and reissued January 10, 1956. Reprinted April 1963; April 1966; April, 1970. Revised and readopted June, 1971 and reprinted April, 1972; February, 1973; August, 1976. Revised and readopted June, 1980 and reissued August, 1980. Reaffirmed June 21, 1989, and reprinted August 1990. Revised and readopted June 7, 1996.

# AMERICAN NATIONAL STANDARD

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### INTRODUCTION

This revised *Standard* is a building-wide method of measurement, allowing spaces that benefit all the building occupants to be measured and allocated on a pro-rata basis. This represents a major change from the previous (1980) edition, which measured office space on a floor-by-floor basis.

The need for such a changed approach was first identified within BOMA International in 1992. While surveys showed that the *Standard* was the most commonly used method of measurement for office buildings, they also documented that it was not being universally applied on a floor-by-floor basis. Buildings constructed during the 1980s tended to incorporate design elements intended to benefit building occupants generally, rather than on a floor-by-floor basis (for example, spacious entrance lobbies with concierge desks, health clubs, daycare facilities, conference centers, etc.). In view of this trend, BOMA's marketplace information indicated a widespread need to fairly account for these building-wide amenities.

Additionally, revision of the *Standard* meets a need for greater clarity in the presentation of concepts and definitions. The previous edition generated too many questions on too many issues to be considered adequate for continued use. These concerns have been thoroughly discussed, and are addressed in a definitive manner here.

In order to produce a revised *Standard* that achieves the aims in a clear and practicable way, various new definitions have been introduced, explaining concepts such as Floor Usable Area, Floor Rentable Area, Floor Common Area, and Building Common Area. With each new term, illustrations were developed to convey the new approach visually.

While additional questions will no doubt arise and further guidance materials may need to be developed, those responsible for the revised *Standard* believe it is a sound document that will meet the needs of architects, space planners, interior designers, engineers, building owners and managers, facility owners and managers, leasing professionals, asset managers, appraisers, and others concerned with the measurement of office space.

The document is designed to be easier to use though the inclusion of two new features: the "Overview of Method" section on page 4, and the "Global Summary of Areas" section on pages 26-27. In addition to familiarizing themselves with the definitions used in the *Standard* (all of which are capitalized for quick recognition), users are encouraged to reference these two sections. The "Overview of Method" outlines the steps needed to measure areas within an office building, while the "Global Summary" enables users to step back and chart the interrelationship of concepts and terms described in the *Standard*.

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### **FOREWORD**

A standard's purpose is to permit communication and computation on a clear and understandable basis. Another important purpose is to allow comparison of values on the basis of a generally agreed upon method of measurement.

For more than 75 years, BOMA International has sponsored the Standard Method for Measuring Floor Area in Office Buildings. The BOMA Standard has been the one accepted and approved by the American National Standards Institute (ANSI). The result is a method of measurement used by building owners, managers, facilities managers, tenants, appraisers, architects, leasing professionals, lending institutions and others to compute the floor area of an office building.

This Standard may be used to measure space in both existing and new office buildings. BOMA International urges all its members and others in the office building industry to use the Standard to measure office space. Facilities professionals are also encouraged to use the Standard in allocating building expenses to various cost centers or for comparing occupancy.

(This Foreword is not officially a part of the Standard Method for Measuring Floor Area in Office Buildings, ANSI/BOMA Z65.1-1996.)

### **PREFACE**

It is not uncommon for an area calculated from the building plans to differ from the area measured on site. It is also not uncommon for a site measurement and calculation by one party to differ from the same measurement and calculation by another party. The calculation for an area, resulting from site measurement by the building owner or manager, is deemed accurate if a re-measurement gives result with variance of two percent (2%) or less. If the variance is greater than two percent (2%), BOMA International recommends that an unbiased professional third party be sought to assist in resolving the matter.

### **DEFINITIONS**

FINISHED SURFACE shall mean a wall, ceiling or floor surface, including glass, as prepared for tenant use, excluding the thickness of any special surfacing materials such as panelling, furring strips and/or carpet.

DOMINANT PORTION shall mean the portion of the inside FINISHED SURFACE of the permanent outer building wall which is 50% or more of the vertical floor-to-ceiling dimension, at the given point being measured as one moves horizontally along the wall. DOMINANT PORTION itself is a vertical measurement between FINISHED SURFACEs (or a series of vertical measurements), with the number of measurements needed based upon the conditions found along the wall. If, for instance, a window system is 4'-6" (1.372 meters) high and the floor to ceiling dimension is 9'-0" (2.743 meters), the DOMINANT PORTION is the inside surface of the glass for the full width of the window system. If, however, the window system is 4'-5" (1.346 meters), the DOMINANT PORTION is the inside surface of the wall. In designs of alternating window systems and wall sections, the DOMINANT PORTION will move in and out as often as conditions dictate. If no FINISHED SURFACE of the permanent outer building wall is 50% or more of the vertical floor-to-ceiling dimension, or if the permanent outer building wall is not vertical, the DOMINANT PORTION shall be the inside finished surface of the wall where it intersects the finished floor. In the case of STORE AREA with street level frontage, the DOMINANT PORTION shall be the building line.

GROSS BUILDING AREA shall mean the total constructed area of a building. It is generally not used for leasing purposes.

GROSS MEASURED AREA shall mean the total area of a building enclosed by the DOMINANT PORTION, excluding parking areas and loading docks (or portions of same) outside the building line. It is generally not used for leasing purposes and is calculated on a floor by floor basis.

MAJOR VERTICAL PENETRATIONs shall mean stairs, elevator shafts, flues, pipe shafts, vertical ducts, and the like, and their enclosing walls. Atria, lightwells and similar penetrations above the finished floor are included in this definition. Not included, however, are vertical penetrations built for the private use of a tenant occupying OFFICE AREAs on more than one floor. Structural columns, openings for vertical electric cable or telephone distribution, and openings for plumbing lines are not considered to be MAJOR VERTICAL PENETRATIONs.

FLOOR RENTABLE AREA shall mean the result of subtracting from the GROSS MEASURED AREA of a floor the MAJOR VERTICAL PENETRATIONs on that same floor. It is generally fixed for the life of the building and is rarely affected by changes in corridor size or configuration.

USABLE AREA shall mean the measured area of an OFFICE AREA, STORE AREA, or BUILDING COMMON AREA on a floor. The total of all the USABLE AREAs for a floor shall equal FLOOR USABLE AREA of that same floor.

OFFICE AREA shall mean the area where a tenant normally houses personnel and/or furniture, for which a measurement is to be computed.

STORE AREA shall mean the area of an office building suitable for retail occupancy. STORE AREAs are included in FLOOR RENTABLE AREA and RENTABLE AREA.

### DEFINITIONS

BUILDING COMMON AREA shall mean the areas of the building that provide services to building tenants but which are not included in the OFFICE AREA or STORE AREA of any specific tenant. These areas may include, but shall not be limited to, main and auxiliary lobbies, atrium spaces at the level of the finished floor, concierge areas or security desks, conference rooms, lounges or vending areas, food service facilities, health or fitness centers, daycare facilities, locker or shower facilities, mail rooms, fire control rooms, fully enclosed courtyards outside the exterior walls, and building core and service areas such as fully enclosed mechanical or equipment rooms. Specifically excluded from BUILDING COMMON AREA are FLOOR COMMON AREAs, parking space, portions of loading docks outside the building line, and MAJOR VERTICAL PENETRATIONS.

FLOOR USABLE AREA shall mean the sum of USABLE AREAs of OFFICE AREAs, STORE AREAs and BUILDING COMMON AREAs of a floor. The amount of FLOOR USABLE AREA can vary over the life of a building as corridors expand and contract and as floors are remodeled.

FLOOR COMMON AREA shall mean the areas on a floor such as washrooms, janitorial closets, electrical rooms, telephone rooms, mechanical rooms, elevator lobbies, and public corridors which are available primarily for the use of tenants on that floor.

FLOOR R/U RATIO shall mean the conversion factor that, when applied to USABLE AREA, gives the BASIC RENTABLE AREA of the OFFICE AREA, STORE AREA or BUILDING COMMON AREA.

BASIC RENTABLE AREA of an OFFICE AREA, STORE AREA or BUILDING COMMON AREA shall mean the USABLE AREA of that OFFICE AREA, STORE AREA or BUILDING COMMON AREA and its share of the FLOOR COMMON AREAs on that floor. BASIC RENTABLE AREA is determined by multiplying the USABLE AREA of that OFFICE AREA, STORE AREA or BUILDING COMMON AREA by the FLOOR R/U RATIO. The total BASIC RENTABLE AREA of a tenant occupying more than one floor shall be the sum of its BASIC RENTABLE AREAs on each floor. The total of all BASIC RENTABLE AREAs on a floor shall equal the FLOOR RENTABLE AREA of that same floor.

BUILDING RENTABLE AREA shall equal the sum of all the FLOOR RENTABLE AREAs.

BUILDING R/U RATIO shall mean the conversion factor that distributes the BUILDING COMMON AREA of a building.

RENTABLE AREA shall mean the USABLE AREA of an OFFICE AREA or STORE AREA with its associated share of FLOOR COMMON AREAs and BUILDING COMMON AREAS. RENTABLE AREA is determined by multiplying the USABLE AREA of an OFFICE AREA or STORE AREA by the R/U RATIO. The total of all RENTABLE AREAs equals the BUILDING RENTABLE AREA for the building.

R/U RATIO shall mean the conversion factor that, when applied to USABLE AREA, gives the RENTABLE AREA of the OFFICE AREA or STORE AREA.

### OVERVIEW OF METHOD

The following steps must be followed to obtain the RENTABLE AREA of an OFFICE AREA or STORE AREA. Please note that an OFFICE AREA located in a STORE AREA is measured as a STORE AREA.

- 1. Determine, for record keeping, the overall GROSS BUILDING AREA.
- 2. Ascertain the GROSS MEASURED AREA of each floor of the building, applying the concepts of FINISHED SURFACE and DOMINANT PORTION.
- 3. Establish the FLOOR RENTABLE AREA for each floor by deducting from each floor GROSS MEASURED AREA the area of its MAJOR VERTICAL PENETRATIONs.
- 4. Measure the USABLE AREA of OFFICE AREAs, STORE AREAs and BUILDING COMMON AREAs on each floor to determine each FLOOR USABLE AREA.
- 5. Determine the FLOOR COMMON AREA of every floor by subtracting from each FLOOR RENTABLE AREA its FLOOR USABLE AREA.
- **6.** The FLOOR COMMON AREA is allocated to each USABLE AREA on that floor by applying that FLOOR R/U RATIO. The result is the BASIC RENTABLE AREA.
- 7. The BUILDING COMMON AREA is allocated to each BASIC RENTABLE AREA by applying the BUILDING R/U RATIO. The result is the RENTABLE AREA.

Note that the RENTABLE AREA can be calculated by applying to the USABLE AREA of OFFICE AREA and STORE AREA the R/U RATIO (BUILDING R/U RATIO X FLOOR R/U RATIO). See chart on pages 26-27 for a summary of the interrelationship of areas.

### **RATIOS AND EQUATIONS**

FLOOR R/U RATIO = FLOOR RENTABLE AREA ÷ FLOOR USABLE AREA

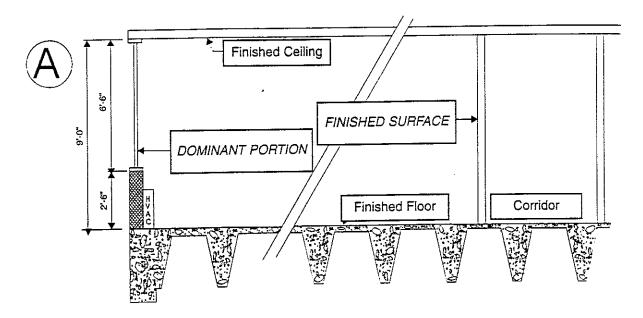
BASIC RENTABLE AREA = USABLE AREA x FLOOR R/U RATIO

BUILDING R/U RATIO = BUILDING RENTABLE AREA ÷ (BUILDING RENTABLE AREA - BASIC RENTABLE AREA of BUILDING COMMON AREA)

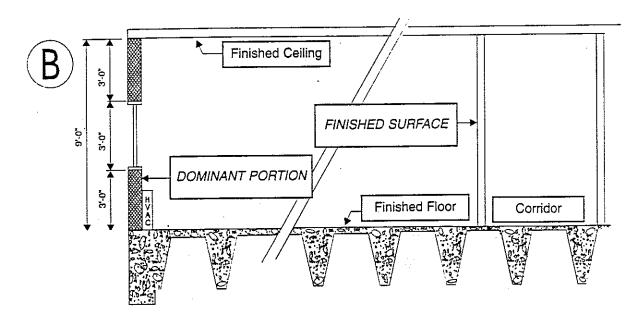
RENTABLE AREA = BASIC RENTABLE AREA x BUILDING R/U RATIO

R/U RATIO = FLOOR R/U RATIO x BUILDING R/U RATIO

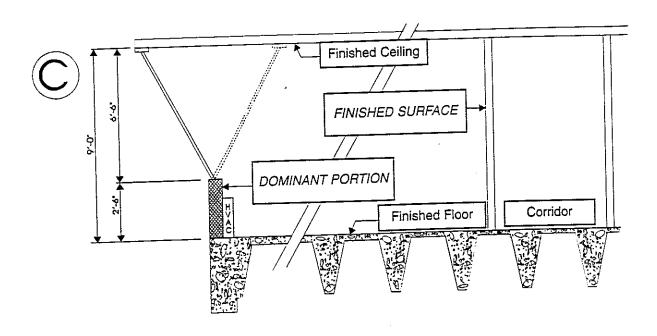
 $RENTABLE \ AREA = USABLE \ AREA \times R/U \ RATIO$ 



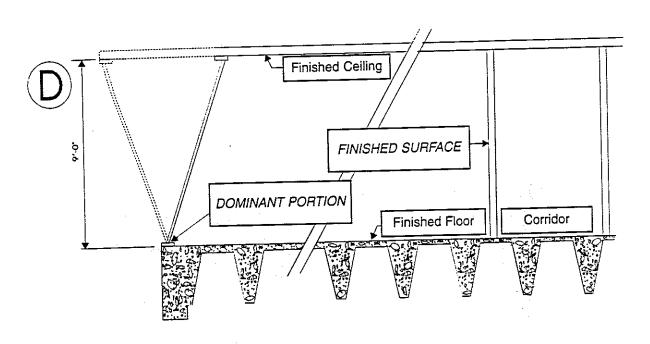
Illustrates a vertical permanent outer building wall where the window system comprises 50% or more of the vertical floor-to-ceiling dimension and, therefore, is the *DOMINANT PORTION*. Points of measurement are shown by the connected arrows.



Illustrates a vertical permanent outer building wall where non-glass material comprises 50% or more of the vertical floor-to-ceiling dimension and, therefore, is the *DOMINANT PORTION*. Points of measurement are shown by the connected arrows.

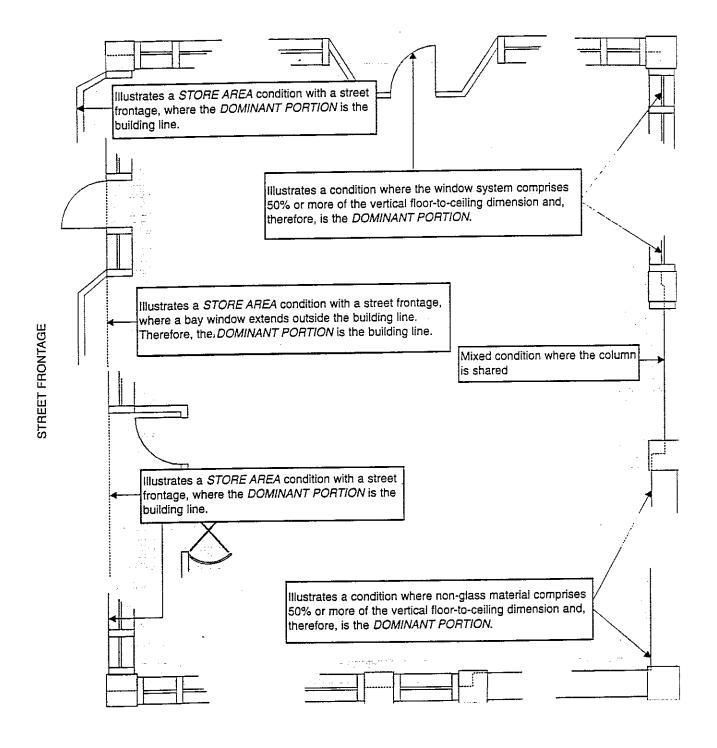


Illustrates a partially non-vertical permanent outer building wall. Points of measurement are shown by the connected arrows.

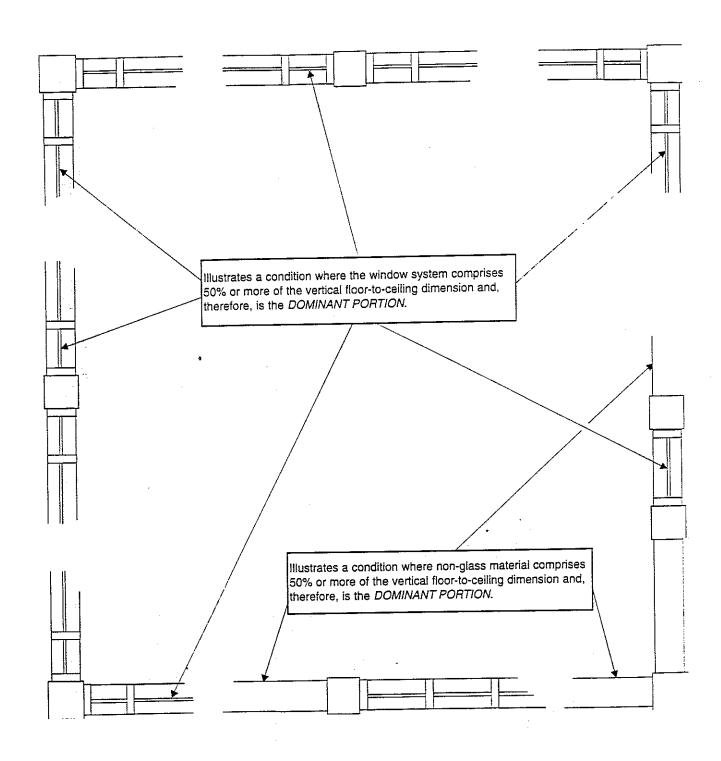


Illustrates a non-vertical permanent outer building wall. Points of measurement are shown by the connected arrows.

### TYPICAL GROUND LEVEL FLOOR

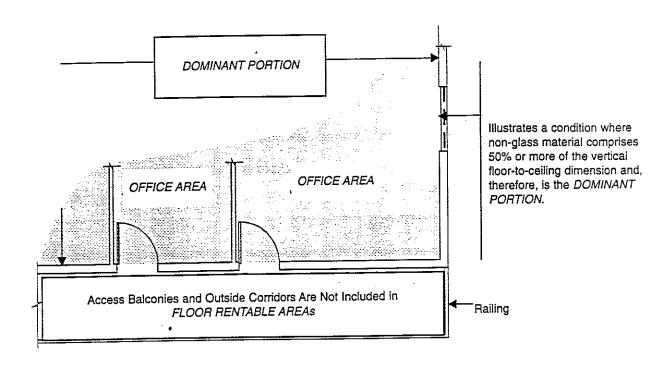


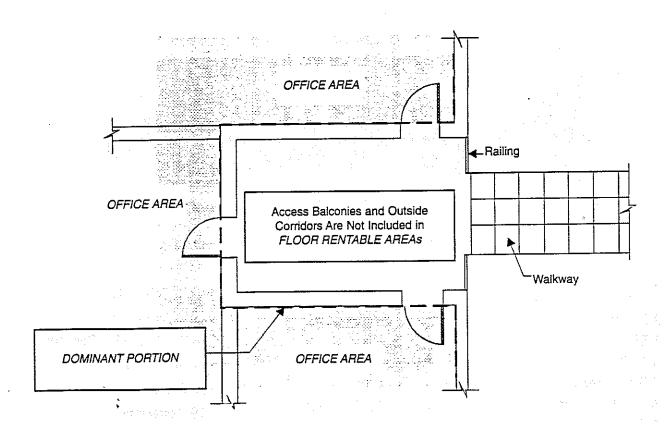
### TYPICAL UPPER LEVEL FLOOR



### **OUTSIDE CORRIDORS & TERRACES**

(These Styles of Building Entrances Are Common in Warmer Climates)





# MEASURING GROSS BUILDING AREA

GROSS BUILDING AREA is not to be used for leasing purposes except where an entire building is leased to a single tenant. This area is computed by measuring to the outside finished surface of permanent outer building walls, without any deductions. All enclosed floors of the building, including basements, garages, mechanical equipment floors, penthouses, and the like, are calculated. GROSS BUILDING AREA is sometimes referred to as "construction area" in the industry.

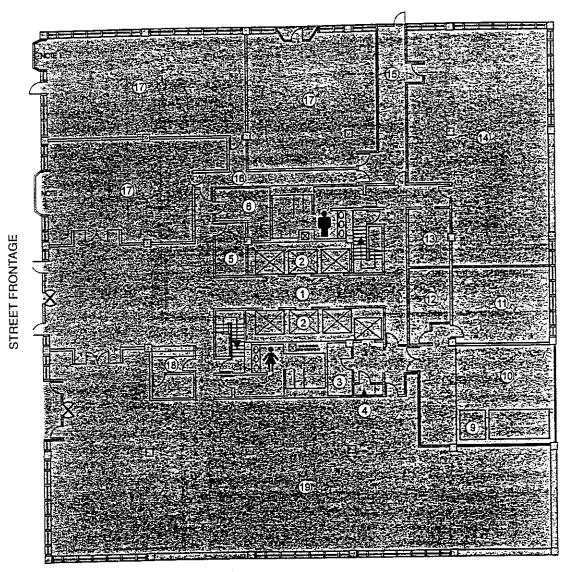
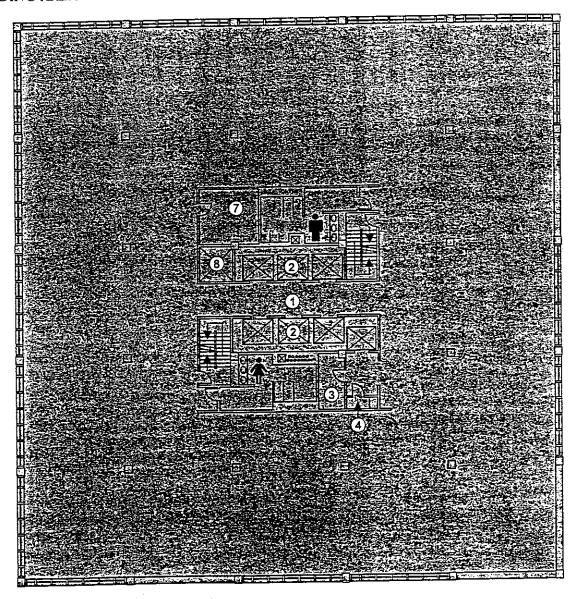


ILLUSTRATION OF *GROSS BUILDING AREA* FOR A TYPICAL GROUND LEVEL FLOOR WHERE THE BUILT AREA BOWS OUT OF AN OTHERWISE STRAIGHT BUILDING LINE (Note 1) AND A BAY WINDOW EXTENDS OUTSIDE THE BUILDING LINE (Note 2)

1 Lobby	8 Ventilation Shaft	14 Exercise Club		
2 Elevator	9 Trash Dumpster	15 Exit Corridor		
3 Electricity	10 Loading Dock	16 Retail Service Corridor		
4 Janitor	11 Electrical Room	17 Store Area		
5 Fire Command	12 Fire Pump	18 Security		
6 Building Maintenance	13 Vending Machines	19 Restaurant		
7 Fan Room	<u> </u>	19 Restaurant		

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# ILLUSTRATION OF GROSS BUILDING AREA FOR A TYPICAL UPPER LEVEL FLOOR

1 Lobby	8 Ventilation Shaft	14 Exercise Club
2 Elevator	9 Trash Dumpster	15 Exit Corridor
3 Electricity	10 Loading Dock	16 Retail Service Corridor
4 Janitor	11 Electrical Room	17 Store Area
5 Fire Command	12 Fire Pump	18 Security
6 Building Maintenance	13 Vending Machines	19 Restaurant
7 Fan Room	-	1) Rostaululit

# MEASURING FLOOR RENTABLE AREA

FLOOR RENTABLE AREA shall mean the result of subtracting from the GROSS MEASURED AREA of a floor the area of the MAJOR VERTICAL PENETRATIONs on that same floor. No deduction shall be made for columns and projections necessary to the building. Spaces outside the exterior walls, such as balconies, terraces, or corridors, are excluded. BUILDING RENTABLE AREA shall equal the sum of all FLOOR RENTABLE AREAs.

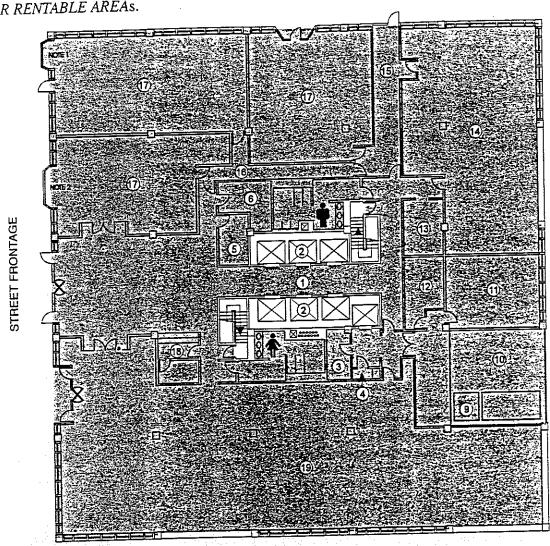
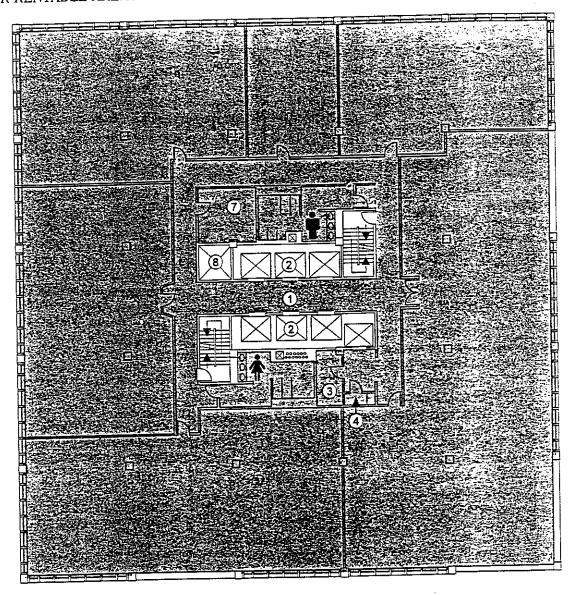


ILLUSTRATION OF FLOOR RENTABLE AREA FOR A TYPICAL GROUND FLOOR LEVEL FLOOR WHERE THE BUILT AREA BOWS OUT OF AN OTHERWISE STRAIGHT BUILDING LINE (Note 1) AND A BAY WINDOW EXTENDS OUTSIDE THE BUILDING LINE (Note 2)

1 Lobby 2 Elevator 3 Electricity	8 Ventilation Shaft 9 Trash Dumpster 10 Loading Dock	<ul><li>14 Exercise Club</li><li>15 Exit Corridor</li><li>16 Retail Service Corridor</li></ul>
4 Janitor 5 Fire Command	11 Electrical Room 12 Fire Pump	17 Store Area 18 Security
6 Building Maintenance 7 Fan Room	13 Vending Machines	19 Restaurant

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# ILLUSTRATION OF FLOOR RENTABLE AREA FOR A TYPICAL UPPER LEVEL FLOOR

<b>——</b> • • • • • • • • • • • • • • • • • •		
1 Lobby	8 Ventilation Shaft	14 Exercise Club
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3 Electricity	10 Loading Dock	16 Retail Service Corridor
4 Janitor	11 Electrical Room	17 Store Area
5 Fire Command	12 Fire Pump	18 Security
6 Building Maintenance	13 Vending Machines	19 Restaurant
7 Fan Room		*

### MEASURING FLOOR USABLE AREA

FLOOR USABLE AREA shall be computed by measuring the area enclosed between the FINISHED SURFACE of the OFFICE AREA side of corridors and the DOMINANT PORTION and/or MAJOR VERTICAL PENETRATIONS. BUILDING COMMON AREAs are considered to be part of FLOOR USABLE AREA. No deduction shall be made for columns and projections necessary to the building. Where alcoves, recessed entrances or similar deviation from the corridor line are present, FLOOR USABLE AREA shall be computed as if the deviation were not present.

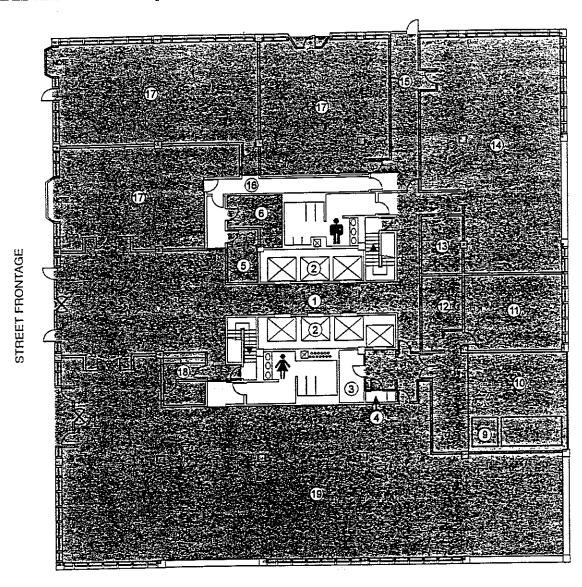
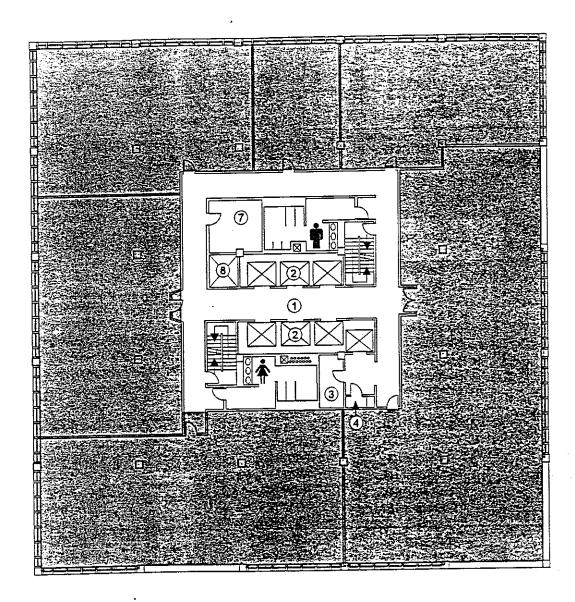


ILLUSTRATION OF FLOOR USABLE AREA FOR A TYPICAL GROUND FLOOR LEVEL WHERE THE BUILT AREA BOWS OUT OF AN OTHERWISE STRAIGHT BUILDING LINE (Note 1) AND A BAY WINDOW EXTENDS OUTSIDE THE BUILDING LINE (Note 2)

41 24 44 44 44	<del>-</del> -	
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### MEASURING FLOOR USABLE AREA

FLOOR USABLE AREA shall be computed by measuring the area enclosed between the FINISHED SURFACE of the OFFICE AREA side of corridors and the DOMINANT PORTION and/or MAJOR VERTICAL PENETRATIONs. BUILDING COMMON AREAs are considered to be part of FLOOR USABLE AREA. No deduction shall be made for columns and projections necessary to the building. Where alcoves, recessed entrances or similar deviation from the corridor line are present, FLOOR USABLE AREA shall be computed as if the deviation were not present.

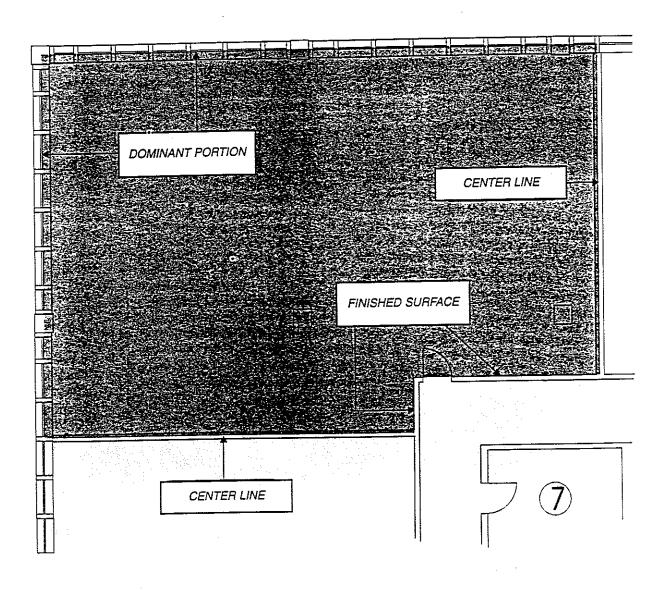


### ILLUSTRATION OF FLOOR USABLE AREA FOR A TYPICAL UPPER LEVEL FLOOR

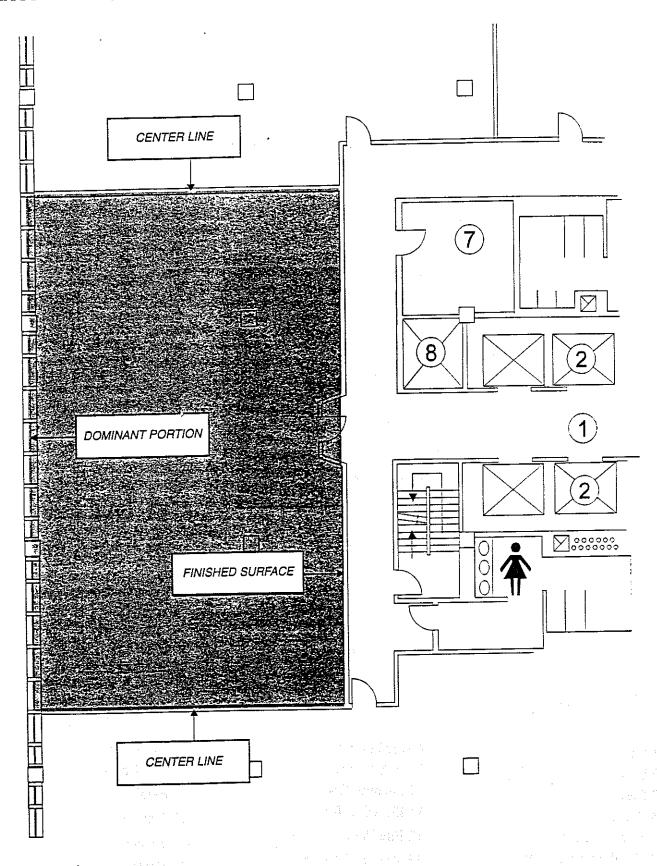
1 Lobby	8 Ventilation Shaft	14 Exercise Club
2 Elevator	9 Trash Dumpster	15 Exit Corridor
3 Electricity	10 Loading Dock	16 Retail Service Corridor
4 Janitor	11 Electrical Room	17 Store Area
5 Fire Command	12 Fire Pump	18 Security
6 Building Maintenance	13 Vending Machines	19 Restaurant
7 Fan Room	~	13 Nestaurant

### MEASURING USABLE AREA

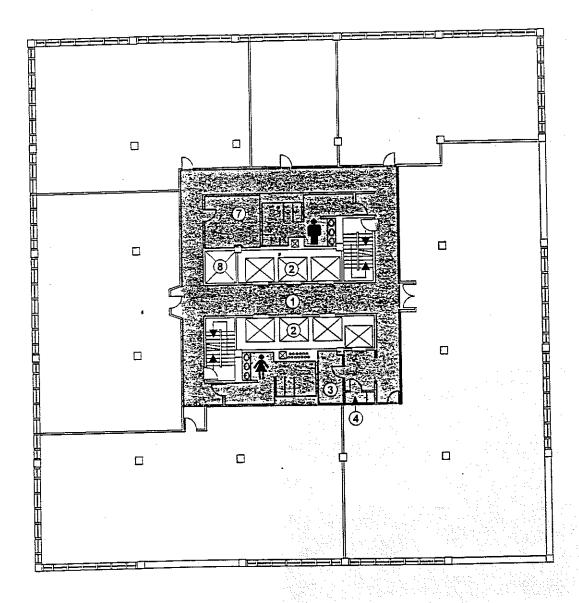
USABLE AREA of an OFFICE AREA, STORE AREA or BUILDING COMMON AREA shall be computed by measuring the area enclosed by: the FINISHED SURFACE of the OFFICE side of corridor and other permanent walls; the DOMINANT PORTION or a MAJOR VERTICAL PENETRATION; and the center of partitions that separate the area being measured from adjoining OFFICE AREAS, STORE AREAS and/or BUILDING COMMON AREAS. No deductions shall be made for columns and projections necessary to the building. FLOOR USABLE AREA of a floor shall be equal to the sum of all the USABLE AREAS on that same floor. Where alcoves, recessed entrances or similar deviation from the corridor line are present, USABLE AREA shall be computed as if the deviation were not present.



# ILLUSTRATIONS, USABLE AREA



# ILLUSTRATIONS, FLOOR COMMON AREA

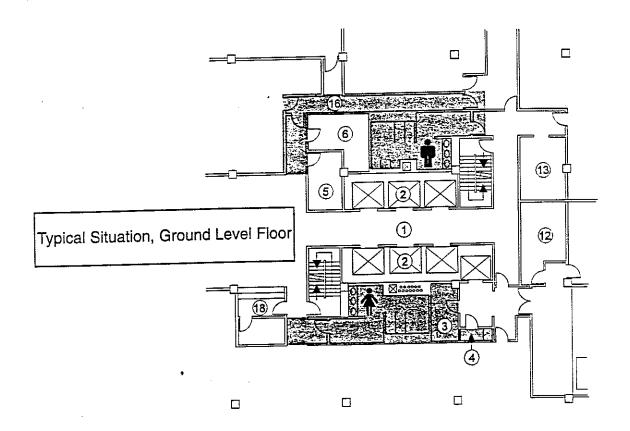


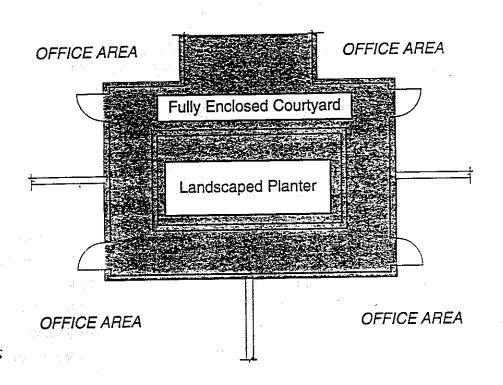
# ILLUSTRATION OF FLOOR COMMON AREA FOR A TYPICAL UPPER LEVEL FLOOR

1 Lobby 2 Elevator 3 Electricity 4 Janitor 5 Fire Command 6 Building Maintenance 7 Fan Room	8 Ventilation Shaft 9 Trash Dumpster 10 Loading Dock 11 Electrical Room 12 Fire Pump 13 Vending Machines	<ul><li>14 Exercise Club</li><li>15 Exit Corridor</li><li>16 Retail Service Corridor</li><li>17 Store Area</li><li>18 Security</li><li>19 Restaurant</li></ul>
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# ILLUSTRATIONS, FLOOR COMMON AREA

### **DETAILED ILLUSTRATIONS**





### CALCULATING STORE AREA

STORE AREA shall be computed by measuring the area enclosed by: the building line in the case of street frontage; the FINISHED SURFACE of the STORE AREA side of corridor and other permanent walls; the DOMINANT PORTION or a MAJOR VERTICAL PENETRATION; and the center of partitions that separate the STORE AREA from adjoining STORE AREAs, OFFICE AREAs and/or BUILDING COMMON AREAs.

Where alcoves, recessed entrances or similar deviation from the corridor line are present, STORE AREA shall be computed as if the deviation were not present. Where vestibules, recessed entrances or similar deviation from the building line, in the case of street frontage, are present, STORE AREA shall be computed as if the deviation were not present. No addition should be made for bay windows extending outside the building line. No deductions shall be made for columns and projections necessary to the building.

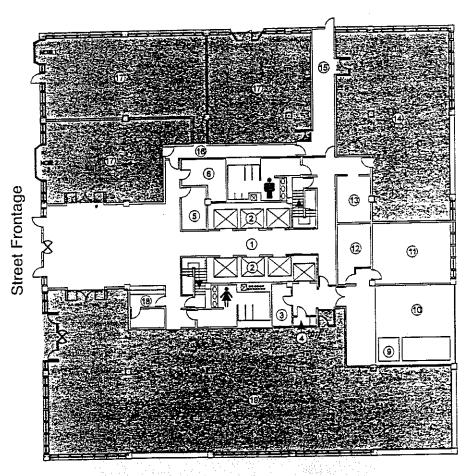
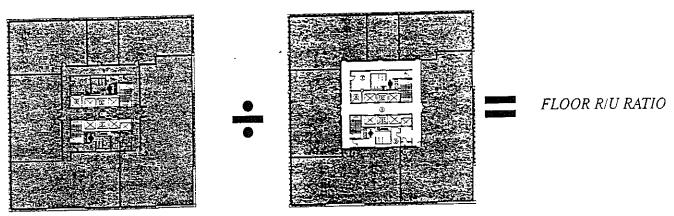


ILLUSTRATION OF STORE AREA FOR A TYPICAL GROUND LEVEL FLOOR WHERE THE BUILT AREA BOWS OUT OF AN OTHERWISE STRAIGHT BUILDING LINE (Note 1) AND A BAY WINDOW EXTENDS OUTSIDE THE BUILDING LINE (Note 2)

1 Lobby	8 Ventilation Shaft	14 Exercise Club
2 Elevator	9 Trash Dumpster	15 Exit Corridor
3 Electricity	10 Loading Dock	16 Retail Service Corridor
4 Janitor	11 Electrical Room	17 Store Area
5 Fire Command	12 Fire Pump	18 Security
6 Building Maintenance	13 Vending Machines	19 Restaurant
7 Fan Room	-	1) Rostadiant

### CALCULATING BASIC RENTABLE AREA

The key concept to master in calculating BASIC RENTABLE AREA is the concept of FLOOR R/U RATIO in allocating FLOOR COMMON AREAs to each OFFICE AREA, STORE AREA or BUILDING COMMON AREA. The FLOOR RENTABLE AREA divided by that same FLOOR USABLE AREA equals the FLOOR R/U RATIO.



A USABLE AREA multiplied by its FLOOR R/U RATIO results in a BASIC RENTABLE AREA.



The total of all BASIC RENTABLE AREAs on a floor shall equal the FLOOR RENTABLE AREA of that same floor.

TENANT	USABLE AREA	X	FLOOR R/U RATTO	= F	BASIC REN	TABLE.	AREA
# 1						·	
# 2	1						
# 3							
#4			s e				
# 5							
# 6						·	
OOR TOTAL		4.					

# MEASURING BUILDING COMMON AREA

BUILDING COMMON AREAs are measured like an OFFICE AREA or STORE AREA and will have a USABLE AREA and a BASIC RENTABLE AREA.

No deduction shall be made for columns and projections necessary to the building.

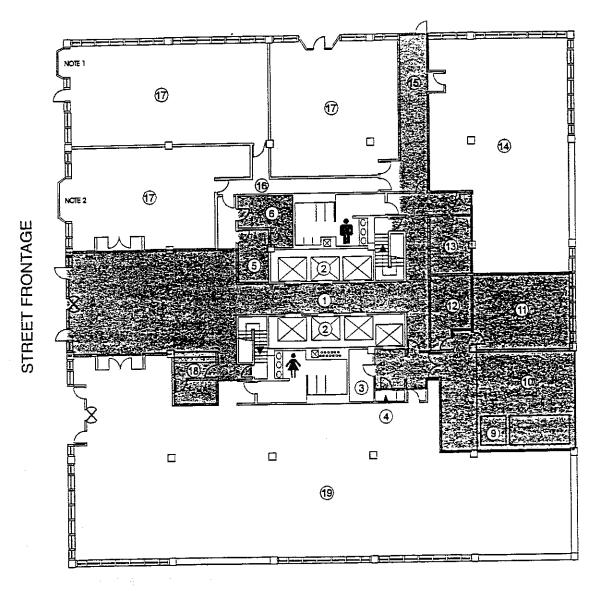
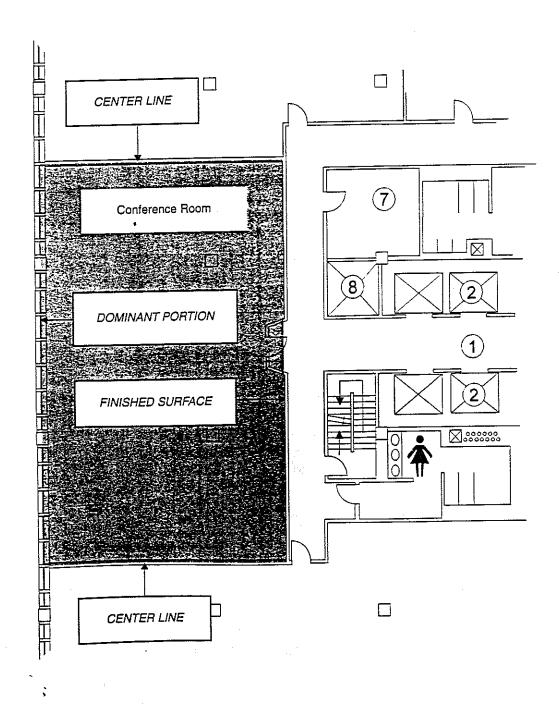


ILLUSTRATION OF BUILDING COMMON AREA FOR A TYPICAL GROUND LEVEL FLOOR WHERE THE BUILT AREA BOWS OUT OF AN OTHERWISE STRAIGHT BUILDING LINE (Note 1) AND A BAY WINDOW EXTENDS OUTSIDE THE BUILDING LINE (Note 2)

1 Lobby	8 Ventilation Shaft	14 Exercise Club
	9 Trash Dumpster	15 Exit Corridor
3 Electricity	10 Loading Dock	16 Retail Service Corridor
4 Janitor	11 Electrical Room	17 Store Area
5 Fire Command	12 Fire Pump	18 Security
6 Building Maintenance	13 Vending Machines	19 Restaurant
7 Fan Room	C	19 Restaurant

# MEASURING BUILDING COMMON AREA

BUILDING COMMON AREAs are areas that provide services to building tenants but which are not included in the OFFICE AREA or STORE AREA of any specific tenant. The following illustration is one of an OFFICE AREA that could be a shared conference room, available on a scheduled basis to every tenant. Note how this BUILDING COMMON AREA is similar to the USABLE AREA on page 17. As with any USABLE AREA being converted into RENTABLE AREA, BUILDING COMMON AREA will be assigned its share of FLOOR COMMON AREA and its share of BUILDING COMMON AREA.



# ILLUSTRATIONS, BUILDING COMMON AREA

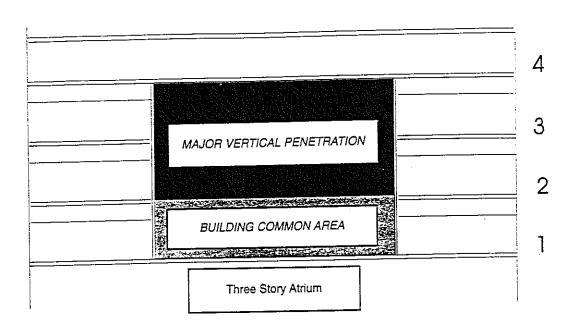


ILLUSTRATION OF BUILDING COMMON AREA FOR A TYPICAL ATRIUM CONDITION

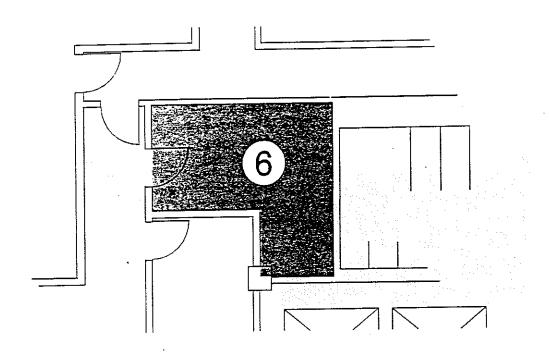


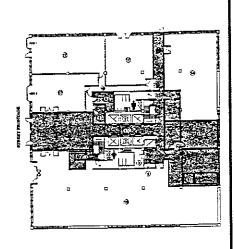
ILLUSTRATION OF BUILDING COMMON AREA HOUSING A TYPICAL BUILDING MAINTENANCE OFFICE

### CALCULATING RENTABLE AREA

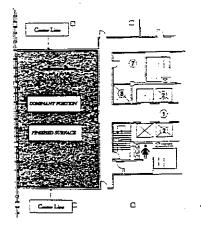
The key concept to master in calculating RENTABLE AREA is the concept of BUILDING R/U RATIO in allocating BUILDING COMMON AREAs to each BASIC RENTABLE AREA.

BUILDING COMMON AREA on any floor is calculated like any USABLE AREA, and carries its own share of FLOOR COMMON AREA through the application of the FLOOR R/U FACTOR.

The following are illustrations of BUILDING COMMON AREA on a ground floor and a typical above ground floor.



# 5		 	
#6			
#8		 	
#10			
#11			
#12		 	
#13			
#14			
#15			
#18	_	 	
TOTAL			



UILDING COMMON AF	REA X	FLOOR R/U RATIO	=	BASIC RENTABLE AREA
#1				
OTAL				

A conference center on a floor is a BUILDING COMMON AREA if no rent is charged for its use.

# GLOBAL SUMMARY OF AREAS

You should now be able to produce your own summary of areas. The following is an example provided for your global comprehension.

1	2	3	4	5	6	7	8	9	10
				(3-4) =5					(7+8+9) =10
						US	ABLE AR	· 	
FLOOR	GROSS BUILDING AREA	GROSS MEASURED AREA	MAJOR VERTICAL PENETRATION	FLOOR RENTABLE AREA	SPACE I.D.	OFFICE AREA	STORE AREA	BUILDING COMMON AREA	FLOOR USABLE AREA
		<u> </u>			#1				
					#2				
					#3				
1					#4				
					#5				
					#1				<u> </u>
					#2				
					#4				
2					#5				
					#6				1
					#7				1
					#8				
			•		#1				1
					#2	<u> </u>			
3					#3				1
J		•			#4				1
					#5 #6				-
			T	1	πυ				
ΤΟΤΑL (Σ)		+							

An alternate method for calculating the *RENTABLE AREA* for each tenant, column 20, is the application of the *R/U RATIO* to the *USABLE AREA* of the *OFFICE AREA* and *STORE AREA*, columns 7 and 8. The *R/U RATIO* is the result of multiplying the *FLOOR R/U RATIO*, column 12, by the *BUILDING R/U RATIO*, column 17.

11	12	13	14	15	16	17	18	19	20
(5-10) =11	(5÷10) =12	(7x12) =13	(8x12) =14	(9x12) =15	(Σ13+Σ14+Σ15) =16	16÷(16-Σ15) =17	(13x17) =18	(14x17) =19	(18+19) =20
		BASIC RENTABLE AREAs					RENTABI		
FLOOR COMMON AREA	FLOOR R/U RATIO	OFFICE AREA	STORE AREA	BUILDING COMMON AREA	BUILDING RENTABLE AREA	BUILDING RIU RATIO	OFFICE AREA	STORE AREA	TOTAL RENTABLE AREA
					<u> </u>				
		<u></u>							
						<u> </u>			
		<u> </u>							
					1				

