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TECHNICAL MEMORANDUM 88.4.7

METRO RAIL BEFORE-AND-AFTER STUDY:  
DATA BASE ORGANIZATION AND STRUCTURE

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Prepared for  
Southern California Rapid Transit District

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May, 1988

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## 1.0 INTRODUCTION

The purpose of the Metro Rail Before-and-After Study is to examine the monetary benefits which accrue over time to property located in the vicinity of Metro Rail stations and to isolate the benefits which are directly attributable to the Metro Rail system. The study is further intended to identify benefits which may be linked to particular events associated with the development of the rail system (e.g., commencement of construction, commencement of operations, etc.). The study will attempt to advance the state of the art in benefit measurement through the scientific analysis of benefits that occur over time in the vicinity of Metro Rail stations. This knowledge will be useful in understanding the process by which benefits are derived and will advance knowledge of the methodology to evaluate land use impacts of transit systems in the United States.

The following tasks constitute the Before-and-After Study:

- 1) Identify Indicators of Benefit and Determine Area of Coverage
- 2) Identify Potential Sources of Data
- 3) Evaluate Useability of Data
- 4) Refine Indicators and Areas of Coverage
- 5) Design Data Base and Analysis Methodologies
- 6) Compile Data Base and Establish Update Procedures
- 7) Analyze Data and Develop Prototypical Case Studies

Tasks 1 through 5 of the Study have been accomplished prior to the development of this Technical Memorandum. The results of Tasks 1, 2 and 3 are contained in Technical Memorandum 88.4.1, Metro Rail Before-and-After Study: Analysis of Potential Monetary Benefit Indicators, Identification of Potential Data Sources and Evaluation of Data Useability. The results of Tasks 4 and 5 of the Study are contained in Technical Memorandum 88.4.5, Metro Rail Before-and-After Study: Research Design, Methodology, Variables and Data Collection Plan. In these tasks, the data sources were refined and the most promising sources to carry out the methodology were identified.

This Technical Memorandum presents the results of Task 6 of the Before-and-After Study. The purpose of Task 6 is to develop the data base required to implement the methodology developed in Task 5. While the basic structure of the data base was outlined in Technical Memorandum 88.4.5, this Technical Memorandum is designed to provide further technical details concerning the data base structure, format and updating. Additional refinement of the data sources to fit the data base structure are also described in this document.

The sections which follow examine in detail: 1) the data base organization and integration with the study methodology and existing data bases; 2) specifications for the data base structure and 3) basic updating procedures for the data base.

## 2.0 DATA BASE ORGANIZATION

In order to effectively implement the study methodology, the data base organization must be related to the requirements of the methodology and tailored to fit the form in which the data are available. The sections which follow provide a brief summary of the study methodology and describe the organization of the data base.

### 2.1 STUDY METHODOLOGY

A detailed description of the research design and methodology for the study can be found in Technical Memorandum 88.4.5, Metro Rail Before-and-After Study: Research Design, Methodology, Variables and Data Collection Plan. The methodology to be used in this Study is designed to refine and expand the techniques available to isolate the impact of the transit system on changing property values from the many other factors which also influence property value.

Previous studies which have attempted to determine the impact of a transit system on land use and property value have done so by comparing "before transit" and "after transit" conditions for properties located in station areas. Unlike these previous studies, the methodology to be used in this study will attempt to isolate the impact of the Metro Rail system on property value by calculating and comparing two different values for properties located in the vicinity of Metro Rail stations: 1) property value "as if Metro Rail had not occurred" and 2) property value with Metro Rail.

The first value ("as if Metro Rail had not occurred") will be calculated by developing predictive equations using property sales data in the pre-Metro Rail period. A multiple regression technique will be used to derive these equations. The pre-Metro Rail equations are designed to reflect the pre-Metro Rail conditions which determine property value in station areas. [The pre-Metro Rail period is defined as the time frame in which Metro Rail would be expected to have no impact on property value and has been hypothesized to be the time period prior to the selection of the final rail route. Using this criterion, the pre-Metro Rail period would be defined to be 1983 and prior years.] Because these equations would be expected to reflect no influence of Metro Rail, the equations can be applied, using current conditions, to any property in the study area in the post-Metro Rail period (1984 and beyond) to estimate the expected property value if Metro Rail had not been built.

The second value ("with Metro Rail") will be determined by collecting actual sales prices for properties in the post-Metro Rail period. The projected property value "as if Metro Rail had not occurred" will be determined for all properties which have a sale point in the post-Metro Rail period using the predictive equations as described in the preceding paragraph. These two values will then be compared and an analysis conducted on the differential between the expected and actual values (termed the "residual" value).

This analysis will involve development of a bi-variate regression equation with residual value as the dependent variable and distance to the nearest Metro Rail station as the independent variable. The proportion of the residual value which can be correlated to distance from the Metro Rail station will be considered to be attributable to the influence of the Metro Rail system and, subject to additional control tests described in detail in Technical Memorandum 88.4.5,

determined to be a direct measure of the monetary impact of Metro Rail on property value.

## 2.2 STUDY AREA

The area to be studied includes properties in the vicinity of the first five stations of the Metro Rail system. These stations constitute Minimum Operable Segment-1 (MOS-1) of the entire Metro Rail project. MOS-1 is 4.4 miles in length and runs between Union Station and Wilshire/Alvarado station. In 1985, the SCRTD Board of Directors, under state authority established benefit assessment districts in the vicinity of these five stations, in order to fund approximately 11% of the cost of constructing MOS-1. The boundaries of these benefit assessment districts will also be used to define the study area for the Before and After Study (see Figure 1).

## 2.3 DATA BASE ORGANIZATION

In order to accomplish the methodology described in Section 2.1 above, it is necessary to organize a data base which supports the development of the predictive equations and the residuals analysis. This section describes the principles used to develop the Before and After study data base. The following section provides technical specifications for the data base.

### 2.3.1 Dependent Variable

The dependent variable for the analysis is property value, as measured by recorded sales prices of properties in the study area. The unit of analysis for the study is an individual property with a recorded sale. A separate record will be maintained for each recorded sale within the study area. Each record will contain the fields described in the following section. The data contained in each record should reflect the condition of the property at the time of the sale in order to determine the effect of the actual conditions on the actual sales price in order to produce the most accurate predictive equations.

### 2.3.2 Independent Variables

The list of independent variables to be potentially included in the pre-Metro Rail predictive equations must be sufficiently inclusive to ensure that the major factors which could affect property value are considered. Property values can be potentially influenced by many factors. For purposes of organizing the Before and After study data base, these factors have been grouped into four categories: 1) Site Characteristics; 2) Location Characteristics; 3) Market Characteristics and 4) Policy Characteristics (see Figure 2). Detailed examination of the potential impacts of these characteristics and their individual components can be found in Technical Memorandum 88.4.5.

### 2.3.3 Relationship of the Before and After Study Data Base to the Benefit Assessment Data Base

In order to conduct the study methodology, it is necessary to collect data on both the dependent and independent variables for each analysis unit (individual property sale). A significant source of the data to be used in the study is the Benefit Assessment data base. In order to implement the special assessment program in the MOS-1 benefit assessment districts, a dedicated data base

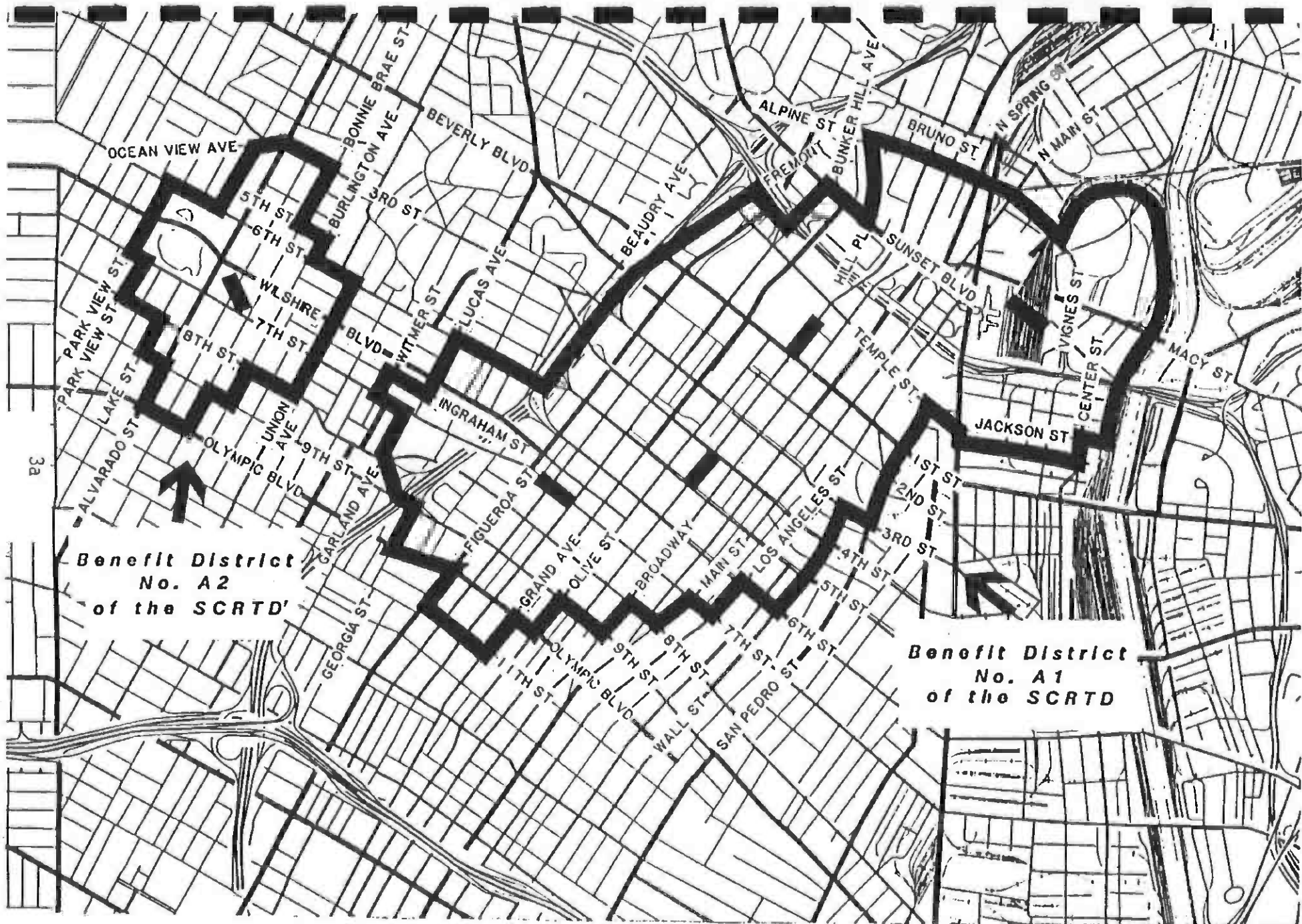


FIGURE 1



**BENEFIT ASSESSMENT DISTRICTS**

JANUARY, 1985

BASIC STRUCTURE OF MULTIPLE REGRESSION EQUATIONS

VALUE OF DEPENDENT VARIABLE	IS A FUNCTION OF INDEPENDENT VARIABLES			
<p>○ PROPERTY VALUE/SALES PRICE-DAMAR</p> <p>○ LEASE RATES-BLACK'S GUIDE</p>	SITE CHARACTERISTICS	LOCATION CHARACTERISTICS	MARKET CHARACTERISTICS	POLICY CHARACTERISTICS
	<ul style="list-style-type: none"> <li>○ PARCEL SIZE-BADD</li> <li>○ IMPROVEMENT</li> <li>○ SIZE-BADD</li> <li>○ AGE-DAMAR</li> <li>○ CDNDITION-DAMAR (Bldg.Class)</li> <li>○ USE-BADD</li> <li>○ PARKING SPACES-DAMAR/CRA</li> <li>○ HEIGHT BLACK'S GUIDE/DAMAR</li> </ul>	<ul style="list-style-type: none"> <li>○ ACCESS TO PROPERTY</li> <li>○ DISTANCE FROM METRO-CALCULATED</li> <li>○ BUS SERVICE-RTD</li> <li>○ STREET FRONTAGE-COUNTY ASSESSOR</li> <li>○ DISTANCE FROM FREEWAY-CALCULATED</li> <li>○ SURROUNDING AMENITIES</li> <li>○ SURROUNDING LAND USE</li> <li>○ SURROUNDING PARKING</li> <li>AGGREGATE LAND USES IN SURROUNDING BLOCKS AND ASSIGN TO PARCELS</li> </ul>	<ul style="list-style-type: none"> <li>○ REGIONAL &amp; NATIONAL MARKET CONDITIONS-US GOVT. SCAG, WALL STREET JOURNAL</li> <li>○ GNP</li> <li>○ PRIME INTEREST RATE</li> <li>○ CPI FOR LA</li> <li>○ DISPOSABLE INCOME</li> <li>○ CONSTRUCTION COST INDEX</li> <li>○ FORIEGN EXCHANGE INDEX</li> <li>○ EMPLOYMENT CALIFORNIA STATE EMPLOYMENT DEVELOPMENT DEPT</li> <li>○ POPULATION-STATE DEPT. OF FINANCE</li> <li>○ ADDITION TO SUPPLY-GRUBB&amp;ELLIS</li> <li>○ LEASE RATES IN SUBAREA-GRUBB&amp;ELLIS</li> <li>○ ABSORPTION BY REGION/SUBREGION GRUBB&amp;ELLIS</li> <li>○ BACKGROUND PARKING COST</li> </ul>	<ul style="list-style-type: none"> <li>○ REDEVELOPMENT AREA/SUBAREA-CRA MAPS</li> <li>○ ZONING-BADD/DAMAR</li> <li>○ CRA INVESTMENT BY SUBAREA-CRA</li> <li>○ PROVISION OF PARKING-ZONING CODE/CRA</li> <li>○ SPECIFIC PLAN DESIGNATED LAND USE/DENSITY-LADOP</li> <li>○ GENERAL PLAN DESIGNATED LAND USE/DENSITY-LADOP</li> <li>○ PROPOSITION U AFFECTED-CORE STUDY</li> </ul>

containing detailed land use information was compiled. Of particular importance, the benefit assessment data base contains parcel-by-parcel identifiers and information on every property located within the Before and After study area. As such, the benefit assessment data base provided the "baseline" information for establishing the Before and After study data base. The following information was extracted from the benefit assessment data base for each property in the study area in order to provide this baseline:

- o Assessor's Parcel Number and components (mapbook, page and parcel numbers)
- o Census tract
- o Situs address
- o Parcel size
- o Square footage of improvement by land use
- o Zoning

Detailed description of these data items is provided in the following section. Although the Before and After study data base uses some of the information contained in the benefit assessment data base, it is important to note that it is a separate entity serving a separate purpose.

### 3.0 DATA BASE STRUCTURE

This chapter provides a detailed technical description of the records contained in the Before-And-After Study data base. As noted above, individual records will be maintained on each available recorded sale. The data fields described in the following sections will be maintained for each record. The fields are related to the data categories and elements described in the preceding section. The information contained in the record should reflect the condition of the property at the time of the sale in order to determine the effect of the actual conditions on the actual sales price and allow for the development of the best predictive equations. The information to be contained in each field, the format of the field and the source of information are described for each data field.

#### 3.1 DATA FIELDS FOR DEPENDENT VARIABLE - PROPERTY VALUE

The dependent variable for the analysis is property value, as measured by recorded sales prices of properties in the study area (MOS-1 benefit assessment districts). The unit of analysis for the study is an individual property with a recorded sale. The following fields are used to reflect property value:

Field Name	Type of Field	Characters
SALE_PRI	Numeric	9

Description: Property Sales Price; the sales or listing price in whole dollars.  
Source: DAMAR Corporation Data Base

SALE_COD	Character	1
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Description: An indication of the accuracy of the reported sales price. Valid codes are as follows:

- V - Verified
- F - Full
- U - Unconfirmed
- A - Approximate
- P - Partial
- X - In escrow
- C - INCOMNET Staff Confirmation

Source: DAMAR Corporation Data Base

SALE_DAT	Character	6
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Description: Sale date for the property. Would report date Offer to Purchase was signed, escrow was opened, loan papers originated, etc. May be different from Recording Date. Format is YYMMDD.

Source: DAMAR Corporation Data Base

DOCUMENT	Character	2
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Description: The type of transaction document on file for the property. Valid codes are:

- |                           |                        |
|---------------------------|------------------------|
| AD - Administrator's Deed | AF - Affidavit         |
| AN - Assignment Deed      | AS - Agreement of Sale |
| CD - Correction Deed      | CO - Condominium Deed  |



CR - Corp. Grant Deed	CS - Contract of Sale
DC - Declaration	DE - Deed
DG - Deed of Guardian	EX - Executor's Deed
GD - Grant Deed	GF - Gift Deed
ID - Individual Grant Deed	IT - Interspousal Deed
JT - Joint Tenancy Deed	PA - Public Auction Deed
PD - Partnership Grant Deed	PR - Personal Rep Deed
PT - Partial Interest	QC - Quitclaim Deed
RC - Receiver's Deed	RD - Redemption Deed
SD - Sheriff's Deed	TD - Trustee's Deed
WD - Warranty Deed	

Source: DAMAR Corporation Data Base

### 3.2 PARCEL IDENTIFIERS

These fields are used to identify, sort and aggregate properties in the study area. These fields are also used to translate data which is aggregated in accordance with different zone systems to provide the relevant information for the zone in which a property is located. The following fields are used to reflect parcel identifiers:

Field Name	Type of Field	Characters
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PARCELNO	Numeric	10
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Description: Full 10-digit Assessor's parcel number for the property maintained by the Los Angeles County Assessor. The Assessor uses a hierarchical mapbook-page-parcel system to identify every property in Los Angeles County. The Assessor's parcel number constitutes a legal description for the property.

Source: Benefit assessment data base

PRCLNOBK	Numeric	4
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Description: 4-Digit Assessor's mapbook number. The first level in the mapbook-page-parcel numbering system, the mapbook number describes the largest geographic area in which the property is located.

Source: Benefit assessment data base (see Appendix A for mapbooks located in study area).

PRCLNOPG	Numeric	3
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Description: 3-Digit Assessor's page number. The second level in the mapbook-page-parcel numbering system, the page number describes the geographic subarea within the mapbook area in which the property is located.

Source: Benefit assessment data base

PRCLNOPC	Numeric	3
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Description: 3-Digit Assessor's parcel number. The third level in the mapbook-page-parcel numbering system, the parcel number describes the individual parcel within the geographic subarea within the mapbook area.

Source: Benefit assessment data base



BAD\_DIST Character 2

Description: The SCRTD benefit assessment district in which the property is located (see Figure 1). Valid codes are:

A1 - Benefit District A1, Central Business District

A2 - Benefit District A2, Wilshire/Alvarado

Source: Benefit assessment data base

### 3.3 SITE CHARACTERISTICS

These fields contain descriptive information concerning individual properties and improvements located on properties. The following fields are used to reflect site characteristics:

Field Name	Type of Field	Characters
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SITUS_NU	Numeric	5
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Description: Situs address number

Source: Benefit assessment data base

SITUS_FR	Character	3
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Description: Fractional portion of situs address number, if any

Source: Benefit assessment data base

SITUS_DI	Character	1
----------	-----------	---

Description: Street Direction, if any

Source: Benefit assessment data base

SITUS_ST	Character	32
----------	-----------	----

Description: Street Number and Name

Source: Benefit assessment data base

SITUS_UN	Character	8
----------	-----------	---

Description: Unit Identification, if any

Source: Benefit assessment data base

SITUS_CI	Character	24
----------	-----------	----

Description: City and State

Source: Benefit assessment data base

SITUS_ZI	Character	9
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Description: Zip code

Source: Benefit assessment data base

U_PRCLTO	Numeric	8
<u>Description:</u> Square footage of parcel for the property		
<u>Source:</u> Benefit assessment data base		
U_OFFICE	Numeric	7
<u>Description:</u> Square footage of improvements in office use located on the property.		
<u>Source:</u> Benefit assessment data base		
U_HOTEL	Numeric	7
<u>Description:</u> Square footage of improvements in hotel use located on the property.		
<u>Source:</u> Benefit assessment data base		
U_RETRES	Numeric	7
<u>Description:</u> Square footage of improvements in retail or restaurant use located on the property.		
<u>Source:</u> Benefit assessment data base		
U_SERVIC	Numeric	7
<u>Description:</u> Square footage of improvements in service use located on the property.		
<u>Source:</u> Benefit assessment data base		
U_INDUWA	Numeric	7
<u>Description:</u> Square footage of improvements in industrial or warehouse use located on the property.		
<u>Source:</u> Benefit assessment data base		
U_GARAGE	Numeric	7
<u>Description:</u> Square footage of improvements in use as parking garage located on the property.		
<u>Source:</u> Benefit assessment data base		
U_PARKIN	Numeric	7
<u>Description:</u> Square footage of parcel in use as parking lot located on the property.		
<u>Source:</u> Benefit assessment data base		
U_VACLAN	Numeric	7
<u>Description:</u> Square footage of vacant parcel located on the property.		
<u>Source:</u> Benefit assessment data base		

U_INSTGO	Numeric	7
<u>Description:</u> Square footage of improvements in use for government purposes located on the property.		
<u>Source:</u> Benefit assessment data base		
U_RESIDE	Numeric	7
<u>Description:</u> Square footage of improvements in residential use located on the property.		
<u>Source:</u> Benefit assessment data base		
U_INSTLA	Numeric	7
<u>Description:</u> Square footage of parcel supporting an exempt improvement (e.g., residential parking lot) located on the property.		
<u>Source:</u> Benefit assessment data base		
U_NONPRO	Numeric	7
<u>Description:</u> Square footage of improvements in use for non-profit purposes located on the property.		
<u>Source:</u> Benefit assessment data base		
U_VACCOD	Numeric	7
<u>Description:</u> Square footage of improvements which have been evaluated as vacant due to code located on the property.		
<u>Source:</u> Benefit assessment data base		
U_RESHOT	Numeric	7
<u>Description:</u> Square footage of improvements which have been evaluated as residential hotel use located on the property.		
<u>Source:</u> Benefit assessment data base		
U_UPDATE	Numeric	7
<u>Description:</u> The last date the square footage information listed in the U_ fields described above was updated.		
<u>Source:</u> Benefit assessment data base		
IMPRVTOT	Numeric	7
<u>Description:</u> The total square footage of improvements located on the property. Derived by summing the following fields above:		
<u>Source:</u> Derived value specifically for this data base		
LAND_YR1	Numeric	2
<u>Description:</u> The assessment year for property land valuation.		
<u>Source:</u> Benefit assessment data base		



PARKTYPE Character 1

Description: The type of parking provided on the property. Valid codes are:  
A - Attached E - Basement P - Paved Y - Yes  
B - Built-in F - Off-Site Q - Adequate Z - Garage  
C - Carport G - Open R - Roof K - Covered  
D - Detached H - None U - Unimproved S - Subterranean

Source: DAMAR Corporation data base

PARKSPACE Numeric 3

Description: The total number of designated parking spaces.

Source: DAMAR Corporation data base

STORIES Numeric 3

Description: The actual number of stories in the primary structure.

Source: DAMAR Corporation data base

UNITS Numeric 4

Description: The actual number of units in relation to the reported land use. Could be apartment units, hospital beds, service station bays, theater seats, trailer park spaces, etc. The number reported would be the total of all structures if of similar use. For condominiums, this indicates the number of units in the entire condominium building.

Source: DAMAR Corporation data base

BLDGS Numeric 3

Description: Total number of buildings on the property.

Source: DAMAR Corporation data base





SURROFC

Numeric

7

Description: The amount of office space surrounding the property. This is defined as the amount of office space in the assessor's mapbook-page containing the property plus the sum of the office space in the assessor's mapbook-pages immediately adjacent to the mapbook-page containing the property. This value was derived as follows:

1. For each assessor's mapbook page number in the study area, the adjacent assessor's mapbook pages was determined
2. The sum total of office square footage was determined for each assessor's mapbook page by summing the value of U\_OFFICE for each property located in the mapbook page
3. The total office square footage from 2. was summed for a) the assessor's mapbook/page containing the property and b) all adjacent mapbook pages.

Source: Derived from information contained in the benefit assessment data base

SURRRET

Numeric

7

Description: The amount of retail/restaurant space surrounding the property, derived as described under SURROFC above, using the sum total of retail square footage (field U\_RETRES) for each assessor's mapbook page

Source: Derived from information contained in the benefit assessment data base

SURRINDU

Numeric

7

Description: The amount of industrial/warehouse space surrounding the property, to be derived as described under SURROFC above, using the sum total of industrial/warehouse square footage (field U\_INDUWA) for each assessor's mapbook page

Source: Derived from information contained in the benefit assessment data base

SURRPARK

Numeric

7

Description: The amount of parking square footage surrounding the property, to be derived as described under SURROFC above, using the sum total of parking square footage (fields U\_GARAGE and U\_PARKIN) for each assessor's mapbook page

Source: Derived from information contained in the benefit assessment data base

SURRGVOT

Numeric

7

Description: The amount of government-used square footage surrounding the property, to be derived as described under SURROFC above, using the sum total of government square footage (field U\_INSTGO) for each assessor's mapbook page

Source: Derived from information contained in the benefit assessment data base

SURRRES

Numeric

7

Description: The amount of residential square footage surrounding the property, to be derived as described under SURROFC above, using the sum total of residential square footage (field U\_RESIDE) for each assessor's mapbook page

Source: Derived from information contained in the benefit assessment data base

CRIMES

Numeric

6

Description: The number of total actual and reported crimes in the Los Angeles Police Department zone for the property in the year of sale. The crimes included in this total include: Burglary, Robbery, Murder, Rape, Assault, Bunco, Theft.

Source: The LAPD maintains files of the number and types of actual and reported crimes aggregated according to its zone system.

### 3.5 MARKET CHARACTERISTICS

These fields contain descriptive information concerning the market conditions in the area where the property is located. National/regional and local market conditions are both reflected. This information is keyed to the year of the recorded sale in order to ensure that the market conditions which would have influenced the sale price are properly reflected. The following fields are used to reflect market characteristics:

#### 3.5.1 National and Regional Economic Conditions

GNP

Numeric

4

Description: The level of the gross national product in current dollars in the year the property has a recorded sale

Source: US Department of Commerce, Bureau of Economic Analysis

PIR

Numeric

2+2 decimal places

Description: The average level of the prime interest rate in the year in which the property has a recorded sale

Source: US Department of Commerce, Bureau of Economic Analysis

CPI

Numeric

4+2 decimal places

Description: The level of the consumer price index for the LA-Long Beach urbanized area at end of the year in which the property has a recorded sale

Source: US Department of Commerce; California State Department of Finance

BCI

Numeric

5+2 decimal places

Description: The level of the index of construction costs for the Los Angeles region in the year in which the property has a recorded sale

Source: Engineering News Record magazine (ENR) maintains an index of construction costs designed to measure the combined effect of wage and price changes on the value of the construction dollar (called the Building Cost Index or BCI), dating to 1938. It is a weighted aggregate index of constant quantities of structural steel, portland cement, lumber and skilled labor. Separate indices are maintained for 20 different urban areas. The index for Los Angeles is used in this study.





Industry/Parking

- 08 - Light
- 09 - Heavy

administrative center, etc.)

Commerce

- 10 - Limited
- 11 - Highway Oriented
- 12 - Community
- 13 - Regional Center

Alternate Use

- 25 - Housing - high medium and/or commerce/parking and/or open space
- 26 - Housing - high and/or commerce/parking - regional center and/or open space
- 27 - Housing - very high and/or commerce/parking - regional center
- 28 - Housing - very high and/or industry/parking - light
- 29 - Commerce/parking - regional center and/or industry/parking - light
- 30 - Community commercial and/or public
- 31 - Community commercial and/or light industry
- 32 - Heavy industry and/or public

Industry

- 14 - Commercial/manufacturing
- 15 - Limited
- 16 - Light
- 17 - Heavy

Source: City of Los Angeles Department of Planning. For Central Business District properties: Central City Community Plan and Central City North Community Plan; for Wilshire/Alvarado properties: Westlake Community Plan

PARK\_REQ

Numeric

3

Description: The number of parking spaces required to be provided on the property, based on the improvements, use and zoning classification of the property. If the parcel is unimproved, this field will be 0. For parcels with special parking requirements as a result of development agreements with CRA, the fields reflects the actual requirement for the project.

Source: Parking requirements for each zoning category obtained from "Generalized Summary of Zoning Regulations, City of Los Angeles" (LADOP) (see Appendix G). CRA's PROJSTAT data base will be used to determine the requirement for properties with CRA development agreements.

PROP\_U

Numeric

1

Description: In 1986, Proposition U was passed which reduced the allowable development density of properties which were designated as height district 1. This field reflects code -1 if the property is affected by Proposition U and 0 if the property is not affected by Proposition U. Properties designated as Height District 1 are affected.

Source: Zoning classification for the property

CRA\_INV

Numeric

8

Description: The cumulative level of public investment in the redevelopment area/subarea in which the property is contained through the year of sale. For properties located in the CBD redevelopment project area, the budgeted expenditure in the project subarea where the property is located will be used. For all other properties, the budgeted expenditure in the redevelopment area will be used (Bunker Hill, Little Tokyo, Chinatown).

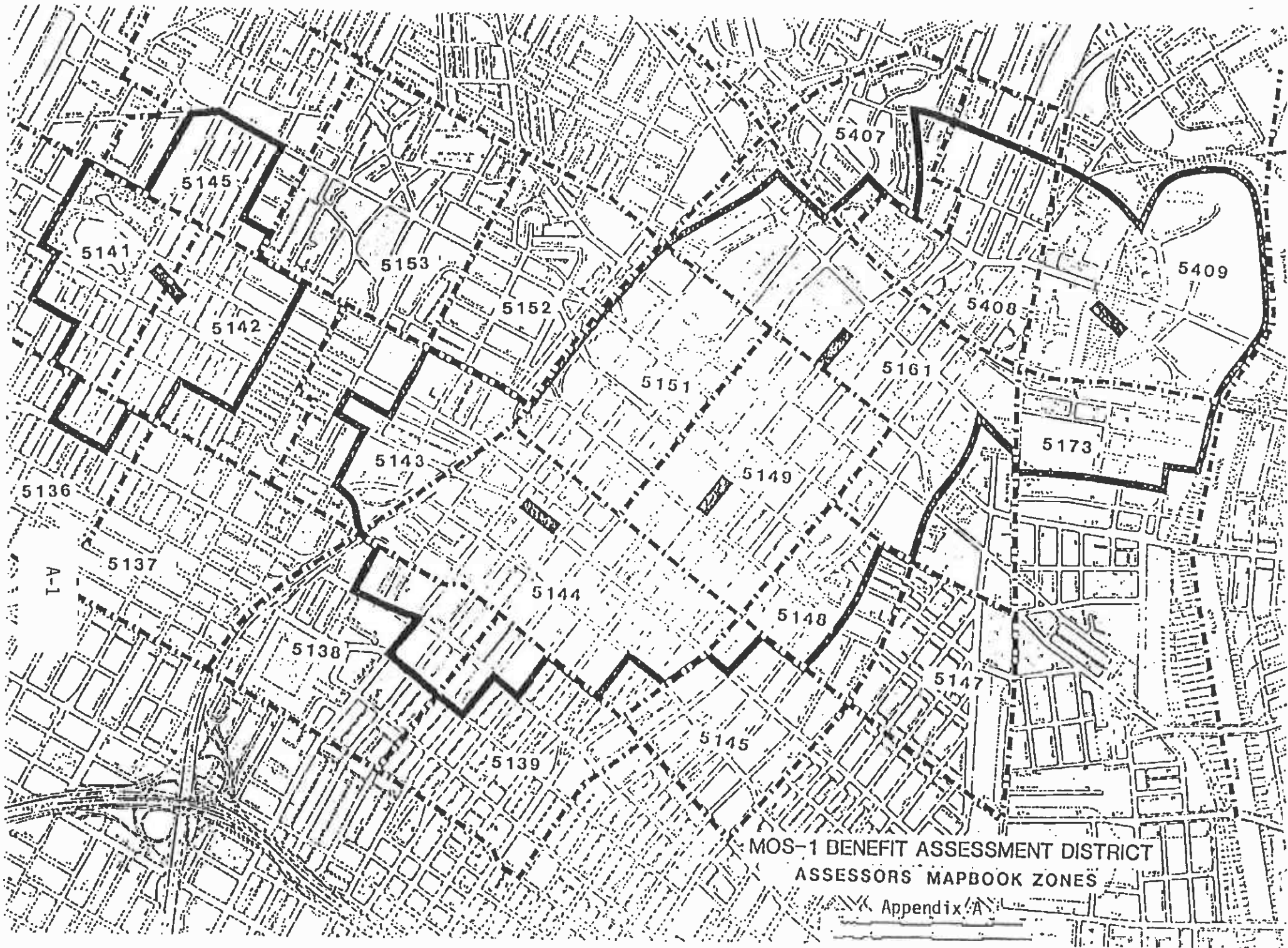
Source: Annual Work Programs for redevelopment projects of the Community Redevelopment Agency.

#### 4.0 UPDATE PROCEDURES

The methodology described in Chapter 2 of this document may be repeated for future years by creating new records based on property sales occurring after the original data base was created. Because this updating process is conjectural at this point, only a basic outline of the updating process is possible at this time. However, the principles which would guide this updating process can be provided.

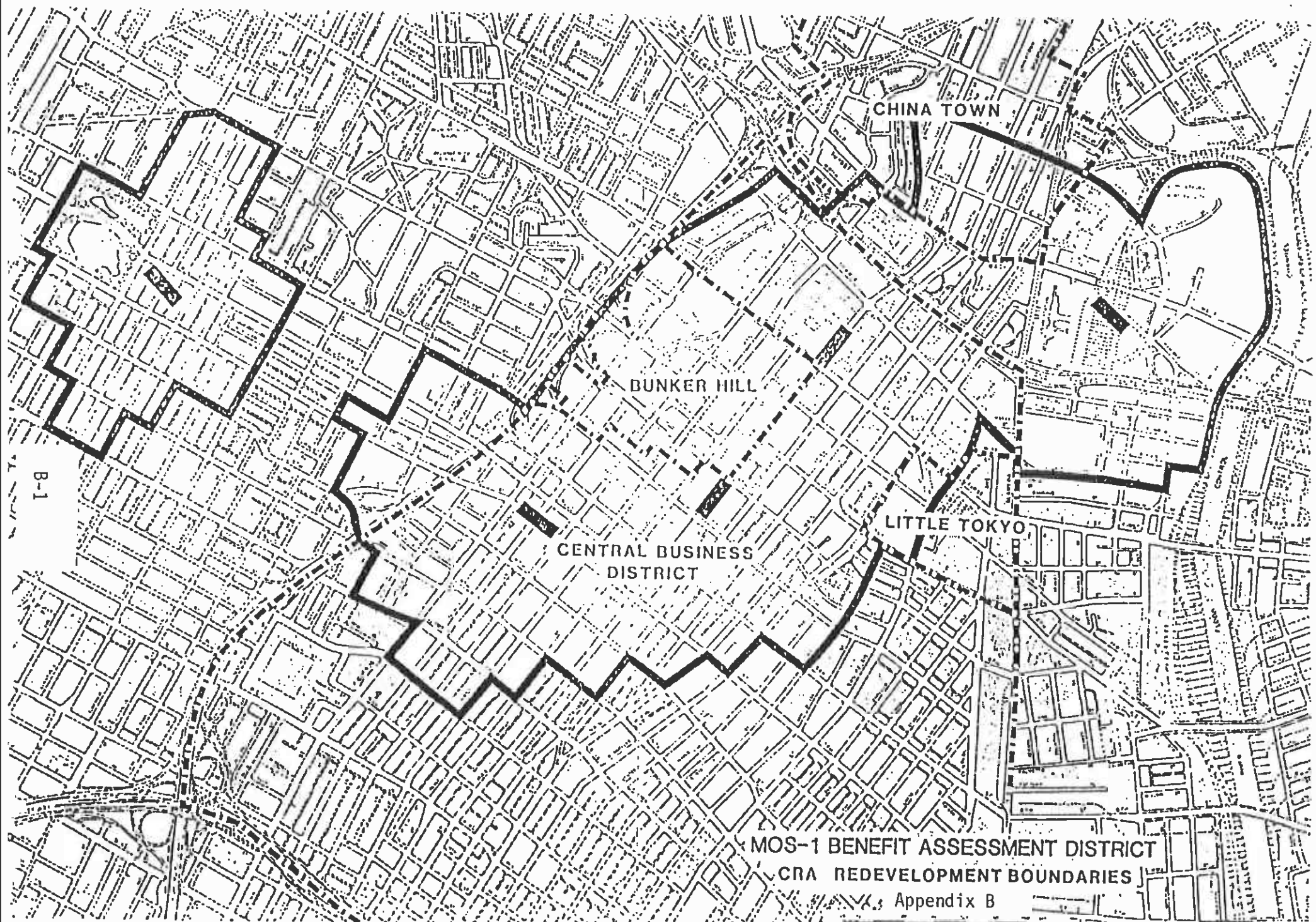
The data base originally created for the Before and After study contains records based on property sales through 1987. To update the data base, property sales for year 1988 would need to be requested from DAMAR Corporation or a similar source. The sales would need to be matched against the parcel numbers of properties contained within the benefit assessment data base. The most updated version of the benefit assessment data base would be necessary to ensure that the latest changes in parcel numbers would be included in the parcel match. The properties which had recent sales which also matched the latest benefit assessment data base would then be included as new records in the Before and After study data base. The latest information on the matched parcels for parcel size, improvement square footage, situs address, and other information from the benefit assessment data base would need to be copied to the record from the benefit assessment data base. Updated economic and policy information would need to be provided for year 1988 and entered into the record. The updated information could then be used to conduct the residuals analysis on the properties with sale dates in year 1988 and beyond.

**MTA LIBRARY**



MOS-1 BENEFIT ASSESSMENT DISTRICT  
ASSESSORS' MAPBOOK ZONES

Appendix A



CHINA TOWN

BUNKER HILL

CENTRAL BUSINESS  
DISTRICT

LITTLE TOKYO

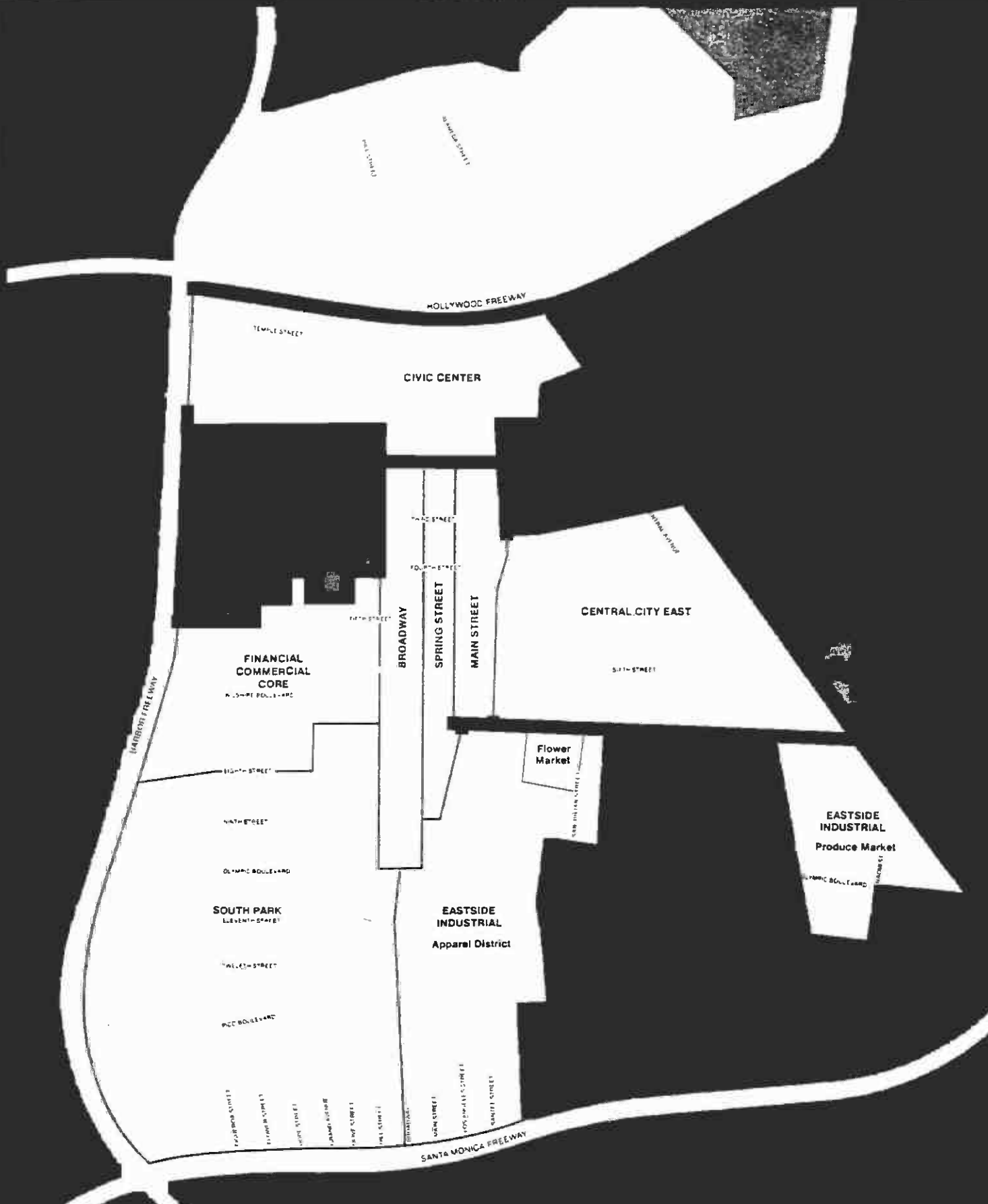
MOS-1 BENEFIT ASSESSMENT DISTRICT

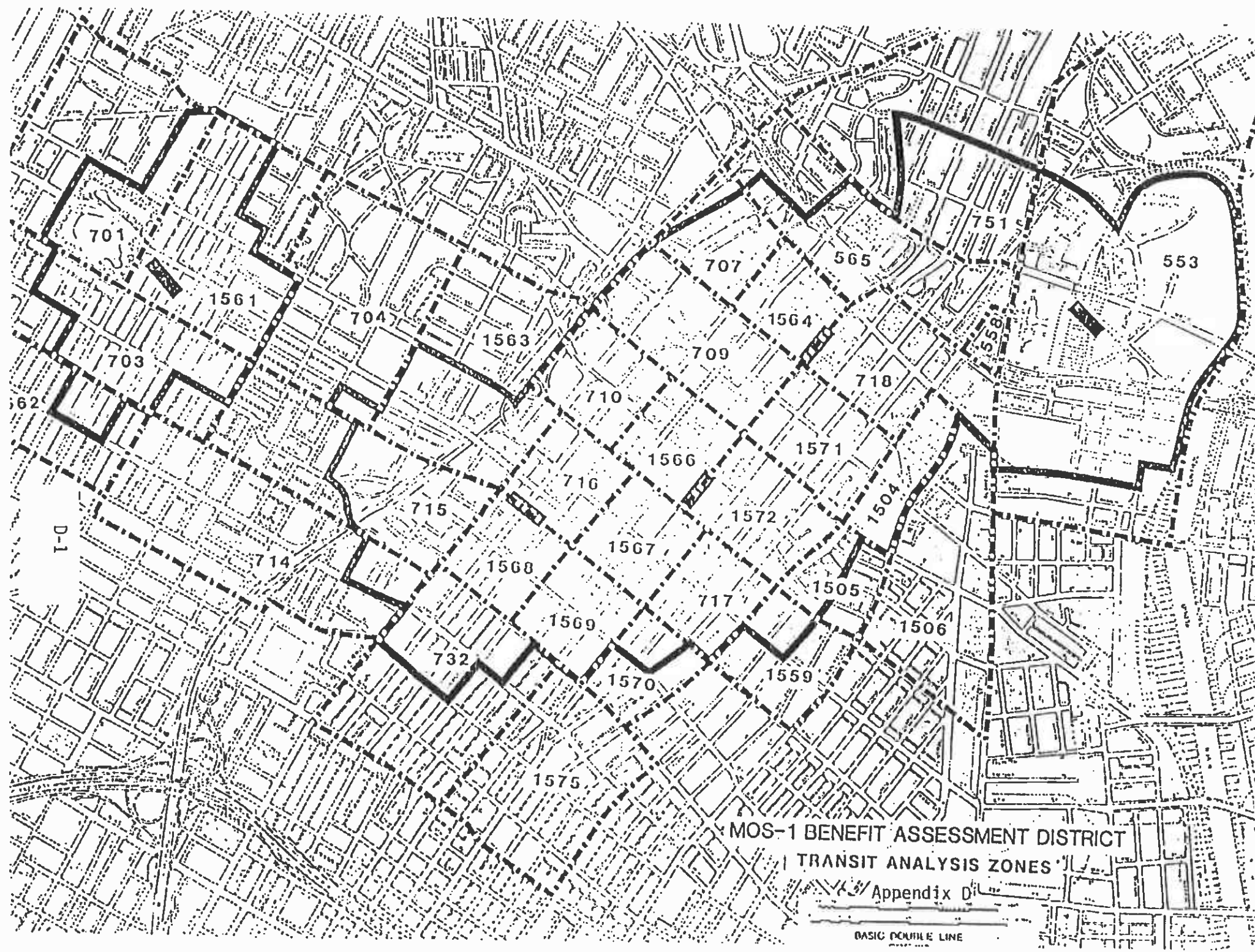
CRA REDEVELOPMENT BOUNDARIES

Appendix B

B-1





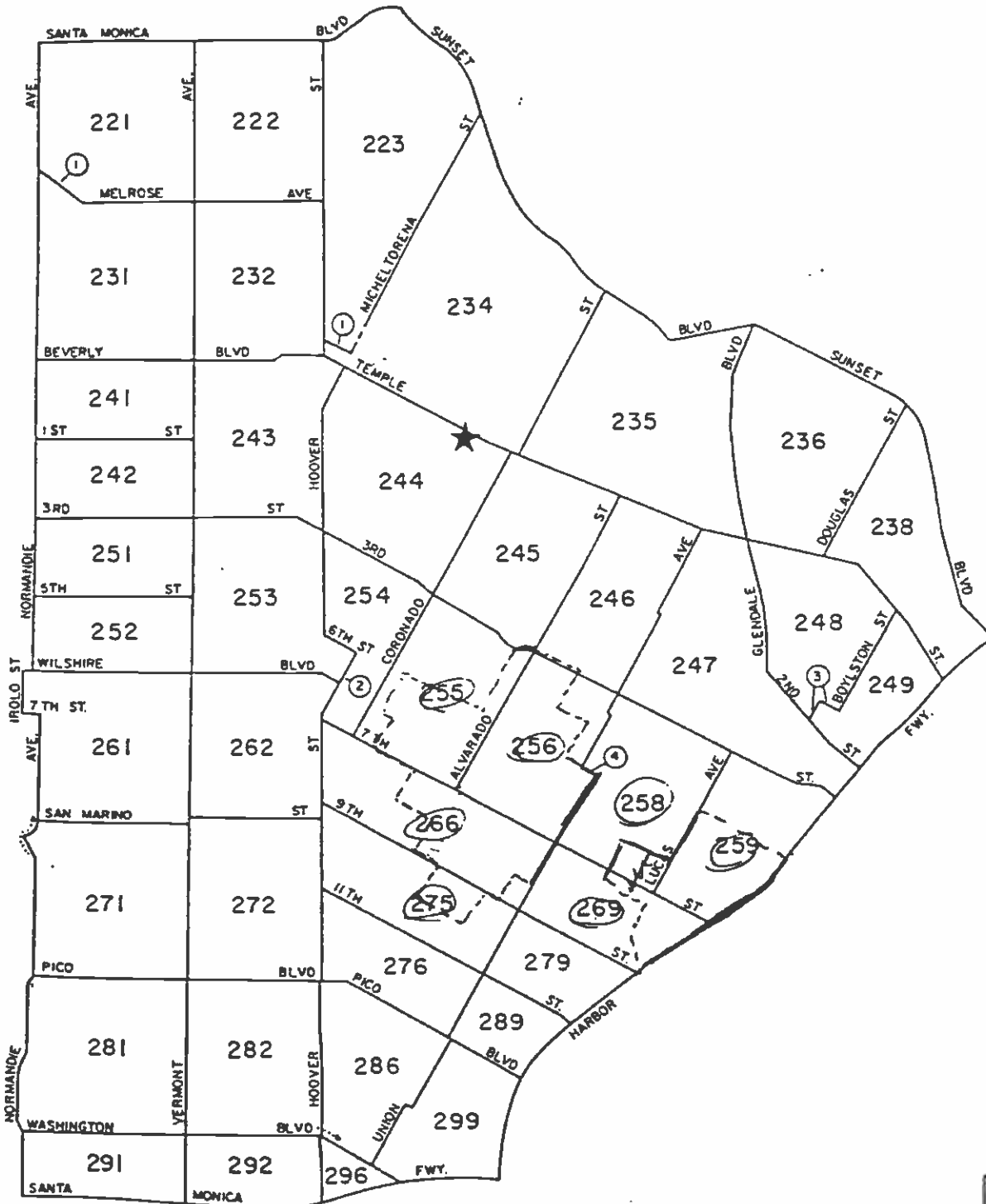


MOS-1 BENEFIT ASSESSMENT DISTRICT  
TRANSIT ANALYSIS ZONES  
Appendix D

BASIC DOUBLE LINE



# Reporting District Map of Rampart Area



- ① HOLLYWOOD FWY.
- ② LAFAYETTE PARK PL.
- ③ 1 ST ST.  
BIXEL ST.
- ④ 6TH ST.

PLANNING & RESEARCH DIVISION  
Cartography and Visual Aids Unit  
**FORM 17.02.00**

ESTIMATED NUMBER OF WAGE AND SALARY WORKERS BY INDUSTRY (A)  
 LOS ANGELES-LONG BEACH METROPOLITAN STATISTICAL AREA  
 (LOS ANGELES COUNTY)  
 ANNUAL AVERAGE 1972-1984  
 (AMOUNT IN THOUSANDS)(B)

INDUSTRY	SIC CODE	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
TOTAL ALL INDUSTRIES		2896.1	3038.2	3082.5	3034.2	3119.2	3243.2	3443.2	3596.8	3622.4	3653.0	3544.4	3567.4	3735.8
TOTAL AGRICULTURAL (C)	01-09	8.0	8.8	8.8	9.6	10.3	10.3	11.9	12.3	12.1	12.0	11.7	11.6	12.3
AGRICULTURAL PRODUCTION	01-02	7.0	7.5	7.9	8.5	9.3	9.4	10.6	10.9	10.7	10.7	10.6	10.3	11.0
AGRICULTURAL SERVICES (D)	07-09	1.1	1.1	0.9	1.1	1.1	1.0	1.3	1.4	1.5	1.3	1.2	1.3	1.3
TOTAL NONAGRICULTURAL		2888.1	3029.6	3073.7	3024.6	3108.9	3232.9	3431.3	3584.5	3610.3	3641.0	3532.7	3555.8	3723.5
MINING	10-14	10.7	10.5	10.8	11.2	11.2	11.2	11.4	12.0	13.0	14.4	14.1	12.8	12.6
OIL & GAS MINING	13	9.0	8.8	9.3	9.7	10.0	10.0	10.1	10.7	11.7	13.2	13.0	11.7	11.4
OTHER MINING & QUARRYING	10,14	1.6	1.7	1.6	1.5	1.2	1.3	1.3	1.3	1.3	1.2	1.1	1.1	1.2
CONSTRUCTION (E)	15-17	97.2	103.6	99.1	89.0	89.9	96.2	105.5	116.7	119.1	118.7	100.0	96.8	109.0
GENERAL BUILDING CONTRACTOR	15	28.6	28.4	28.3	23.5	24.0	24.5	26.3	29.1	30.0	29.5	22.1	21.5	25.4
HEAVY CONSTRUCT CONTRACTORS	16	16.5	16.3	16.8	16.8	16.1	17.2	19.5	19.5	19.6	20.2	15.9	15.2	14.1
SPECIAL TRADE CONTRACTORS	17	54.2	58.9	56.0	48.7	49.9	54.4	59.7	68.0	69.5	69.0	62.0	60.0	69.5
MANUFACTURING	20-39	774.5	821.0	824.4	766.8	789.9	818.1	877.9	924.9	912.1	916.1	862.2	853.1	885.3
NONDURABLE GOODS	20-23,26-31	250.6	264.1	266.7	258.5	269.6	279.1	294.3	300.0	293.8	298.2	288.1	284.1	288.2
DURABLE GOODS	24-25,32-39	523.9	556.9	557.7	510.3	520.3	539.1	583.6	624.9	618.3	618.0	576.1	569.0	597.1
FOOD & KINDRED PRODUCTS	20	49.8	49.9	50.4	49.3	50.3	50.7	51.4	51.4	51.4	52.3	51.8	51.6	49.8
CAN, CURED, FROZ SEA FOODS	2091-2	5.6	5.8	6.7	5.7	6.1	6.0	5.4	5.4	5.5	5.8	5.5	5.7	4.8
MEAT PRODUCTS	201	9.4	9.3	9.9	10.2	9.5	9.0	8.9	8.0	7.2	6.3	5.8	6.0	5.6
DAIRY PRODUCTS	202	5.7	5.4	5.2	4.9	4.5	4.6	4.5	4.9	5.1	6.0	5.7	5.8	5.8
CAN, PRESRVD FRUIT & VEGTBL	203	3.3	3.3	3.3	3.5	3.7	3.8	4.1	4.1	4.2	4.5	5.0	5.4	4.9
GRAIN MILL PRODUCTS	204	3.1	3.0	2.9	2.9	2.9	3.0	3.1	3.1	3.1	3.1	2.9	2.8	2.5
BAKERY PRODUCTS	205	9.1	9.3	8.7	8.2	8.5	8.5	8.8	8.6	8.6	8.7	8.9	8.6	8.9
BEVERAGES	208	4.9	4.8	4.8	5.4	5.6	5.8	6.0	5.9	6.1	6.2	6.6	6.6	6.4
OTHR FOOD & KINDRED PRODUCT	20 OTHER	8.8	9.1	8.9	8.6	9.4	10.3	10.8	11.5	11.6	11.7	11.3	10.7	10.9
TEXTILE MILL PRODUCTS	22	9.2	10.7	10.3	9.5	10.1	9.9	10.2	10.0	9.3	8.6	8.2	8.4	8.7
APPAREL & OTHER TEXTILE PROD	23	59.1	64.8	66.6	67.7	73.5	74.9	81.2	81.0	77.0	76.7	73.5	73.6	77.6
MEN'S & BOYS' FURNISHINGS	232	7.3	8.2	8.4	8.6	9.2	8.7	8.9	9.0	7.7	6.9	5.8	5.9	5.3
WOMEN'S & MISSES' OUTERWEAR	233	34.2	38.2	40.2	42.0	46.0	47.7	53.1	51.8	48.8	48.8	47.7	47.6	51.0
WOMEN & CHILDRENS UNDERGRMT	234	3.7	3.8	3.7	3.3	3.6	3.3	3.2	3.4	3.6	3.7	3.6	3.5	3.5
OTHR APPAREL & TEXTILE PROD	23 OTHER	13.9	14.8	14.3	13.8	14.6	15.2	16.1	16.8	17.0	17.3	16.5	16.7	17.8
PAPER & ALLIED PRODUCTS	26	16.4	16.5	16.4	15.2	16.3	16.6	16.7	17.7	17.3	17.8	17.3	17.2	18.2
MISC CONVERTED PAPER PRDGS	264	7.0	7.1	7.2	6.8	7.1	7.2	7.4	8.0	7.7	7.9	8.2	8.1	8.7
PAPERBOARD CONTAINERS & BOX	265	7.3	7.4	7.0	6.5	7.2	7.4	7.6	7.8	7.6	7.5	7.0	7.0	7.5
OTHR PAPER & ALLIED PRODUCT	26 OTHER	2.1	2.1	2.2	2.0	2.0	1.9	1.7	2.0	2.1	2.4	2.2	2.1	2.0
PRINTING & PUBLISHING	27	41.1	43.3	43.3	42.5	44.3	46.4	50.2	52.6	54.0	54.6	53.3	53.6	55.2
NEWSPAPERS	271	12.9	12.8	12.4	11.7	12.9	13.3	14.2	15.0	15.2	15.4	15.1	15.0	16.0
OTHR PRINTING & PUBLISHING	27 OTHER	28.2	30.5	31.0	30.7	31.4	33.1	36.0	37.6	38.8	39.2	38.2	38.6	39.3

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Appendix F

ESTIMATED NUMBER OF WAGE AND SALARY WORKERS BY INDUSTRY (A)  
 LOS ANGELES-LONG BEACH METROPOLITAN STATISTICAL AREA  
 (LOS ANGELES COUNTY)  
 ANNUAL AVERAGE 1972-1984  
 (AMOUNT IN THOUSANDS)(B)

INDUSTRY	SIC CODE	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
CHEMICALS & ALLIED PRODUCTS	28	27.1	28.5	28.9	26.2	26.0	27.5	28.1	28.9	28.8	29.9	27.8	27.0	27.4
INDUSTRIAL INORGANIC CHEMS	281	2.3	2.3	2.5	2.4	2.5	3.1	3.1	3.0	2.9	2.8	2.2	2.2	2.5
PLASTIC MATERIAL & SYNTHETIC DRUGS	282	2.1	1.9	1.9	1.7	1.8	2.0	1.9	2.1	1.7	1.9	1.9	1.8	1.9
SOAP, CLEANERS, TOILET GOOD	284	8.7	8.9	9.3	8.6	9.0	9.6	9.8	9.5	9.7	10.3	9.7	8.5	8.6
PAINTS & ALLIED PRODUCTS	285	4.3	4.4	4.1	3.9	3.9	3.9	4.2	4.4	3.8	3.8	3.4	3.5	3.8
OTHR CHEMICAL & ALLIED PRDO	28 OTHER	4.5	5.1	4.9	4.7	4.5	4.2	4.5	4.5	4.8	5.1	4.9	5.1	4.7
PETROLEUM & COAL PRODUCTS	29	13.6	13.5	13.3	12.8	12.7	12.7	13.2	13.2	13.4	14.9	14.6	13.6	12.8
PETROLEUM REFINING	291	11.2	11.4	11.3	11.0	10.8	10.7	11.1	11.0	11.0	12.5	12.2	11.3	10.8
OTHR PETROLEUM & COAL PRODS	29 OTHER	2.4	2.2	2.1	1.8	1.9	1.9	2.1	2.2	2.4	2.3	2.4	2.3	2.1
RUBBER & MISC PLASTIC PROD	30	28.9	30.9	30.9	26.5	28.8	31.9	33.5	35.2	33.8	33.9	31.3	31.6	32.1
FOOTWEAR & FABRICATED PROOS	302,6	4.2	4.9	5.4	4.8	5.0	5.5	5.4	5.3	5.0	4.8	4.8	5.1	5.5
MISCELLANEOUS PLASTIC PRODS	307	18.4	19.7	19.3	17.0	20.4	21.9	25.0	27.3	27.2	28.1	25.6	25.7	25.9
OTHR RUBBER & PLASTIC PRODS	30 OTHER	6.3	6.3	6.1	4.7	3.4	4.6	3.1	2.7	1.6	1.0	0.9	0.8	0.7
LEATHER & LEATHER PRODUCTS	31	5.6	6.0	6.6	6.8	7.8	8.5	9.7	9.9	8.9	9.6	8.3	7.5	6.3
LUMBER & WOOD PRODS EXC FUR	24	11.2	11.5	10.3	9.3	10.6	11.8	13.0	13.1	12.4	11.5	9.2	9.7	10.8
MILWORK, PLYWOOD, STRUCTURAL	243	4.0	4.2	3.8	3.3	4.0	4.3	4.5	4.7	4.6	4.6	3.8	4.0	4.7
OTHR LUMBER & WOOD PRODUCT	24 OTHER	7.2	7.4	6.5	6.0	6.6	7.5	8.5	8.4	7.8	6.9	5.4	5.7	6.1
FURNITURE & FIXTURES	25	29.2	33.2	31.8	28.1	31.0	34.3	38.1	39.6	37.1	37.9	32.8	34.1	38.0
HOUSEHOLD FURNITURE	251	21.9	24.9	23.5	20.6	22.4	24.1	26.3	27.1	24.5	24.4	20.5	21.4	23.6
OTHR FURNITURE & FIXTURES	25 OTHER	7.2	8.3	8.4	7.4	8.6	10.3	11.8	12.5	12.6	13.6	12.3	12.8	14.4
STONE, CLAY, & GLASS PRODUCT	32	23.6	25.0	25.1	23.1	24.2	24.1	25.0	24.7	23.4	22.6	19.8	18.9	19.5
STRUCTURAL CLAY PRODUCTS	325	2.4	2.3	2.4	2.0	2.0	2.0	2.0	1.5	1.3	1.3	1.1	1.0	0.7
POTTERY & RELATED PRODUCTS	326	4.2	4.8	5.2	4.9	5.3	5.2	5.1	4.9	4.5	4.3	3.2	2.8	2.8
CONCRETE, GYPSUM, PLASTER	327	4.9	4.8	4.5	3.7	4.0	4.0	4.5	4.7	4.6	4.4	3.8	3.6	4.2
OTHR STONE, CLAY, GLAS PROD	32 OTHER	12.1	13.1	13.1	12.5	13.0	12.9	13.4	13.6	13.0	12.6	11.8	11.4	11.8
PRIMARY METAL INDUSTRIES	33	24.9	26.1	26.3	23.5	22.6	24.2	25.9	27.5	26.0	25.4	22.4	20.8	21.4
IRON & STEEL FOUNDRIES	332	3.6	3.9	4.5	4.1	3.6	3.8	4.3	4.6	4.4	4.4	4.2	3.4	3.5
NONFERROUS ROLLING & DRAW	335	7.9	7.7	6.7	5.8	5.7	6.2	6.6	7.3	7.2	6.7	5.4	5.6	5.4
NONFERROUS FOUNDRIES	336	4.8	5.4	5.4	4.7	5.3	5.5	6.1	6.7	6.5	6.8	6.4	6.5	6.8
OTHR PRIMARY METALS	33 OTHER	8.5	9.2	9.8	8.8	8.0	8.8	9.0	8.9	7.9	7.5	6.4	5.4	5.6
FABRICATED METAL PRODUCTS	34	69.2	74.5	74.0	67.2	70.8	73.8	80.6	84.6	80.5	78.2	69.7	69.1	72.7
CUTLERY, HANDTOOL, HARDWARE	342	10.6	12.0	11.2	9.5	10.6	11.2	11.5	12.2	9.7	8.6	7.3	6.9	7.2
FABRICATED STRUCTURAL PRODS	344	17.2	18.2	17.6	16.9	17.7	18.5	20.7	20.9	19.1	19.0	17.2	17.1	18.2
SCREW MACHINE PRODS, BOLTS	345	6.1	6.6	7.3	6.3	5.8	6.1	7.7	8.8	10.1	10.2	8.4	7.7	8.0
FORGINGS & STAMPINGS	346	8.3	9.1	9.3	8.5	8.8	9.3	10.0	9.7	9.6	9.4	8.9	9.1	9.7
METAL SERVICES, NEC	347	9.6	11.1	11.2	10.1	11.1	11.3	12.7	13.7	13.3	13.0	11.8	12.3	13.0
OTHR FABRICATED METAL PRODS	34 OTHER	17.3	17.6	17.5	15.9	16.8	17.4	18.1	19.3	18.7	18.0	16.1	15.8	16.6

ESTIMATED NUMBER OF WAGE AND SALARY WORKERS BY INDUSTRY (A)  
 LOS ANGELES-LONG BEACH METROPOLITAN STATISTICAL AREA  
 (LOS ANGELES COUNTY)  
 ANNUAL AVERAGE 1972-1984  
 (AMOUNT IN THOUSANDS)(B)

INDUSTRY	SIC CODE	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
MACHINERY EXC ELECTRICAL	35	70.8	79.9	84.6	76.2	73.6	75.5	83.1	90.4	91.7	88.9	81.4	76.2	76.4
CONSTRUCTION & RELATED	353	9.1	10.4	11.2	9.2	9.3	9.6	10.5	11.4	10.9	10.9	9.3	6.1	5.9
METALWORKING	354	10.1	11.6	12.0	10.7	10.6	11.1	12.2	12.9	12.2	11.2	9.7	9.4	10.3
GENERAL INDUSTRIAL	356	9.8	10.8	11.1	10.3	10.3	10.4	11.5	12.2	12.5	12.2	10.9	9.8	10.1
OFFICE, COMPUTING, ACCOUNT	357	21.0	23.1	23.9	21.3	18.4	18.1	19.5	21.4	21.9	22.9	23.8	23.9	22.6
OTHER MACHINERY EXC ELECT	35 OTHER	20.8	24.2	26.3	24.6	25.0	26.3	29.5	32.5	34.2	31.7	27.7	27.1	27.4
ELECTRICAL EQUIP & SUPPLIES	36	100.2	107.5	108.0	102.4	108.0	112.2	122.9	131.5	134.8	139.3	139.1	141.4	150.7
INDUSTRIAL APPARATUS	362	5.3	5.7	6.1	5.8	6.6	7.4	8.1	7.7	7.5	7.1	6.5	6.2	6.9
HOUSEHOLD APPLIANCES	363	5.3	5.3	4.2	2.8	3.7	4.0	4.0	3.9	3.4	3.4	3.0	3.1	2.9
LIGHTING & WIRING EQUIP	364	10.1	11.1	10.4	9.0	9.9	11.0	12.3	13.5	13.1	13.6	12.1	12.4	13.2
RADIO & TV RECEIVING EQUIP	365	9.0	9.6	9.6	9.4	10.1	10.6	11.3	10.5	10.1	9.8	8.1	7.2	7.1
COMMUNICATION EQUIP	366	50.8	53.6	54.1	55.0	55.5	55.4	61.3	67.8	71.9	75.7	79.7	81.1	84.8
ELECT COMPONENTS & ACCESS	367	14.5	16.2	17.4	14.6	15.9	17.4	18.8	20.1	20.5	21.8	22.8	24.4	27.1
OTHER ELECT EQUIP & SUPPLY	36 OTHER	5.1	6.0	6.3	5.9	6.3	6.4	7.1	8.0	8.2	8.0	6.9	7.1	8.8
TRANSPORTATION EQUIPMENT	37	150.9	153.3	150.3	136.4	132.7	136.2	143.7	160.7	160.4	161.9	152.1	150.9	157.9
MOTOR VEHICLES & EQUIP	371	22.4	24.0	19.8	17.3	22.7	25.1	27.2	28.8	18.3	19.2	18.7	18.9	20.3
AIRCRAFT & PARTS	372	106.0	106.9	105.4	93.9	84.2	85.3	91.2	108.4	116.1	114.0	105.3	104.0	110.4
SHIP & BOAT BLDG & REPAIR	373	4.1	3.9	5.3	5.5	4.8	4.5	5.3	6.2	5.7	7.0	7.1	6.8	5.5
GUIDED MISS, SPACE VECH	376	15.0	14.3	16.1	16.1	16.0	15.3	14.1	15.3	17.4	19.4	19.2	19.8	19.9
OTHER TRANSPORTATION EQUIP	37 OTHER	3.4	4.2	3.8	3.6	5.1	5.9	5.9	4.0	2.8	2.3	1.8	1.8	1.8
INSTRUMENTS & RELATED PRODS	38	23.4	25.0	27.1	24.7	26.0	25.8	28.2	30.5	31.8	31.2	28.2	26.9	28.7
MEASURING & CONTROLLING	382	10.6	11.7	12.4	10.8	11.3	10.9	11.8	12.0	12.2	12.1	11.1	10.7	11.3
OTHR INSTRUMNT RELATED PROD	38 OTHER	12.8	13.3	14.7	13.9	14.7	15.0	16.5	18.5	19.6	19.1	17.2	16.1	17.4
MISCELLANEOUS MANUFACTURING	39	20.7	20.8	20.2	19.3	20.9	21.1	23.0	22.5	20.3	21.0	21.3	20.9	21.1
TOYS & SPORTING GOODS	394	9.0	8.9	8.4	8.3	9.1	8.9	9.3	9.0	8.2	8.5	9.3	8.5	8.4
OTHR MISC MANUFACT INDUSTRY	39 OTHER	11.7	11.9	11.8	11.0	11.8	12.1	13.8	13.5	12.1	12.5	12.1	12.5	12.7
TRANSPORT & PUBLIC UTILITIES	40-49	171.4	177.3	177.2	170.7	173.5	177.4	187.8	198.3	200.8	201.4	197.2	195.1	197.6
TRANSPORTATION	40-47	100.8	105.1	108.1	100.2	103.8	107.3	115.1	121.6	121.1	117.4	111.5	111.3	116.9
COMMUNICATION SERVICES	48	53.4	53.9	53.0	52.8	52.7	52.8	55.3	58.8	61.2	64.9	66.2	63.4	59.7
ELECTRIC SERVICES	49	17.4	18.3	18.1	17.8	17.2	17.3	17.5	18.2	18.4	19.1	19.5	20.4	20.9
WHOLESALE & RETAIL TRADE	50-59	848.8	880.9	892.5	890.7	713.6	742.7	787.9	814.1	816.9	820.7	803.7	812.6	866.3
WHOLESALE TRADE	50-51	195.5	209.3	218.8	216.5	225.6	236.1	253.4	264.9	267.6	267.1	261.5	264.3	282.2
RETAIL TRADE	52-59	453.3	471.7	473.7	474.2	487.9	506.7	534.4	549.2	549.4	553.6	542.2	548.3	584.1
FINANCE, INS AND REAL ESTATE	60-67	177.9	184.1	186.6	184.3	188.4	198.0	212.0	224.2	234.8	239.3	234.1	238.3	251.0
FINANCE	60-62	81.0	84.2	86.7	85.8	88.0	93.0	101.0	108.4	115.1	119.5	118.6	122.9	128.1
INSURANCE CARRIER, AGT & BRKS	63-64	63.2	64.1	63.9	62.6	63.7	65.6	67.8	69.0	70.8	71.3	68.3	65.7	67.3
REAL ESTATE	65	30.6	32.3	32.3	31.9	32.5	35.5	39.0	42.2	43.4	42.7	41.2	43.1	48.3
COMB, HOLDING & OTHR INVEST	66-67	3.1	3.8	3.8	4.1	4.1	4.0	4.2	4.6	5.3	5.8	6.0	6.6	7.3
SERVICES	70-89	571.1	610.1	624.9	633.9	662.2	706.2	761.1	811.7	831.0	855.0	853.0	882.3	934.2

ESTIMATED NUMBER OF WAGE AND SALARY WORKERS BY INDUSTRY (A)  
 LOS ANGELES-LONG BEACH METROPOLITAN STATISTICAL AREA  
 (LOS ANGELES COUNTY)  
 ANNUAL AVERAGE 1972-1984  
 (AMOUNT IN THOUSANDS)(B)

INDUSTRY	SIC CODE	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
GOVERNMENT (F)		438.5	442.1	458.0	478.1	480.2	483.1	487.9	482.8	482.9	475.3	468.5	464.9	467.7
FEDERAL		67.3	67.1	70.2	69.7	67.6	66.8	67.6	68.1	71.2	67.8	68.0	68.2	69.1
STATE & LOCAL		369.2	375.0	387.9	408.4	412.6	416.2	420.3	414.7	411.7	407.6	400.5	396.7	398.6
COUNTY		76.0	78.4	80.3	84.5	82.9	78.9	80.7	79.2	81.1	77.6	72.7	71.7	73.1
CITY		74.3	74.5	74.6	78.3	76.8	76.3	76.1	70.5	70.0	70.7	70.5	70.8	71.8
EDUCATION		183.7	186.7	197.7	207.2	213.9	220.6	222.2	224.2	218.7	216.9	214.9	210.1	208.7
OTHER STATE & LOCAL		35.3	35.3	35.3	38.5	39.1	40.4	41.2	40.8	42.0	42.4	42.3	44.1	45.0



# Appendix G GENERALIZED SUMMARY OF ZONING REGULATIONS

CITY OF LOS ANGELES

NOTE: THIS SUMMARY IS ONLY INTENDED TO BE A GUIDE; DEFINITIVE INFORMATION SHOULD OBTAINED FROM THE DEPARTMENT OF BUILDING AND SAFETY.

ZONE	USE	MAXIMUM HEIGHT		REQUIRED YARDS			MINIMUM PER LOT	AREA PER DWELLING UNIT	MINIMUM LOT WIDTH	PARKING REQUIRED
		STORIES	FEET	FRONT	SIDE	REAR				
<b>AGRICULTURAL</b>										
A1	AGRICULTURAL One-Family Dwellings-Parks Playgrounds Community Centers Golf Courses-Truck Gardening-Extensive Agricultural Uses	3	45 Ft.	20% lot depth 25 Ft. Max.	25 Ft. Maximum 10% Lot Width	25% lot depth 25 Ft. Max.	5 Acres	2 1/2 Acres	300 Ft.	Two Spaces Per Dwelling Unit
A2	AGRICULTURAL A1 Uses				2 Acres		1 Acre	150 Ft.		
RA	SUBURBAN Limited Agricultural Uses One-Family Dwellings				10 Ft. - plus 1 Ft. - 3 stories - less than 70 Ft. width 10% lot width 3 Ft. min.		17,500 Sq. Ft. (1)	17,500 Sq. Ft. (1)	70 Ft. (1)	Two Covered Spaces Per Dwelling Unit

## ONE FAMILY RESIDENTIAL

RE40	RESIDENTIAL ESTATE	3	45 Ft.	20% lot depth 25 Ft. Max.	10 Ft. min. plus 1 Ft. - 3 stories	25% lot depth 25 Ft. Max.	40,000 Sq. Ft. (1)	40,000 Sq. Ft. (1)	80 Ft. (1)	Two Covered Spaces Per Dwelling Unit		
RE20	One-Family Dwellings Parks Playgrounds Community Centers Truck Gardening				20,000 Sq. Ft. (1)		20,000 Sq. Ft. (1)	80 Ft. (1)				
RE15					10 Ft. Max. 10% Lot Width 5 Ft. min. - plus 1 Ft. - 3 stories		15,000 Sq. Ft. (1)	15,000 Sq. Ft. (1)	80 Ft. (1)			
RE11					5 Ft. - less than 50 Ft. width 3 Ft. Min.		11,000 Sq. Ft. (1)	11,000 Sq. Ft. (1)	70 Ft. (1)			
RE9					9,000 Sq. Ft. (1)		9,000 Sq. Ft. (1)	65 Ft. (1)				
RS	SUBURBAN One-Family Dwellings-Parks-Playgrounds-Truck Gardening	3	45	20% lot depth 25 Ft. Max.	5 Ft. - less than 50 Ft. 10% Lot Width 3 Ft. Minimum	20 Ft. Min.	7,500 Sq. Ft.	7,500 Sq. Ft.	60 Ft.	Two covered spaces per dwelling unit		
R1	ONE-FAMILY DWELLING RS Uses				Plus 1 Ft. 3 stories		5,000 Sq. Ft.	5,000 Sq. Ft.	30 Ft.			
RZ 2.3	RESIDENTIAL ZERO SIDE YARD				10 Ft. Min.		None(3) or 3 Ft. plus 1 Ft. - 3 stories	None(3) or 15 Ft.	2,500 Sq. Ft.		2,500 Sq. Ft.	30 Ft. with driveway, 25 Ft. w/o driveway
RZ 3	Dwelling across not more than five lots (2)						3,000 Sq. Ft.	3,000 Sq. Ft.	20 Ft. - Flag curved or cul-de-sac			
RZ 4	Parks-Playgrounds						4,000 Sq. Ft.	4,000 Sq. Ft.				
RZ 5		5,000 Sq. Ft.	5,000 Sq. Ft.									
RW1	ONE-FAMILY RESIDENTIAL WATERWAYS ZONE	2	30 Ft.	10 Ft. min.	10% width 3 Ft. Minimum	15 Ft. Min.	2,300 Sq. Ft.	2,300 Sq. Ft.	28 Ft.			

(1) "M" Hillside or Mountainous Area designation may alter these requirements in the RA-M or RE-M Zones, subdivisions may be approved with smaller lots, providing larger lots are also included. Each lot may be used for only one single-family dwelling. See minimum width and area requirements below.

**ZONE COMBINATION**

RA-M  
RE9-M  
RE11-M  
RE15-M  
RE20-M  
RE40-M

**MINIMUM TO WHICH NET AREA MAY BE REDUCED**  
18,000 Sq. Ft.  
7,200 Sq. Ft.  
9,800 Sq. Ft.  
12,000 Sq. Ft.  
16,000 Sq. Ft.  
32,000 Sq. Ft.

**MINIMUM TO WHICH LOT WIDTH MAY BE REDUCED**  
63 Ft.  
60 Ft.  
63 Ft.  
72 Ft.  
72 Ft.  
no reduction

(2) See Section 12.08 B 1 of the Zone Code.  
(3) See Section 12.08 C4 of the Zone Code.

# INDUSTRIAL

ZONE	USE	MAXIMUM HEIGHT STORIES FEET	REQUIRED YARDS			MINIMUM AREA PER LOT/UNIT	MINIMUM LOT WIDTH	LOADING SPACE	PARKING REQUIRED		
			FRONT	STREET	REAR						
<b>INDUSTRIAL</b>											
M1	RESTRICTED INDUSTRIAL Uses First Permitted in CM Zone-Limited Commercial and Manufacturing Uses, Clinics, Limited Machine Shops, Animal Hospitals and Kennels	Unlimited (6)	5 Ft. for lots 100 Ft. in depth or less, 15 Ft. for lots over 100 Ft. in depth	None for Industrial or commercial buildings	None for Industrial or commercial buildings	Same as R4 for watchman or caretaker dwellings (5)		Insti- tutions, and with every building where lot abuts an alley	One space for each 500 Sq. Ft. of floor Area in all buildings on any lot.		
M2	RESTRICTED LIGHT INDUSTRIAL M1 Uses-Addition Industrial Uses, Mortuaries, Agriculture		Residential Use-Same as in R4 Zone (5)	Residential Use-Same as in R4 Zone (5)						Minimum Loading Space 400 Sq. Ft.  Addi- tional space required for buildings containing more than 50,000 Sq. Ft. of floor Area	Must be located within 750 Ft. of building.
M3	LIMITED INDUSTRIAL CM Uses-Limited Industrial and Manufacturing Uses-No "R" Zone Uses, No Hospitals, Schools or Churches or any enclosed C2 Uses		Residential Use-Same as in R5 Zone (5)	Yards provided as lowest residential story (5)							
M2	LIGHT INDUSTRIAL M1 and M2 Uses-Additional Industrial Uses, Storage yards of All Kinds, Animal keeping - No "R" Zone Uses		None	None	Same as R5 (5)						
M3	HEAVY INDUSTRIAL M2 Uses-Any Industrial Uses - Nuisance Type - 500 Ft. from any Other Zone - No "R" Zone Uses		None	None	None						

# PARKING

P	AUTOMOBILE PARKING-SURFACE AND UNDERGROUND Land in a "P" Zone may also be classified in "A" or "R" Zone Parking Permitted in lieu of Agricultural or Residential Uses		10 Ft. Front where any combination of an "A" or "R" Zone with "P" Zone			None Unless site in an "A" or "R" Zone			
PB	PARKING BUILDING Automobile Parking Within Building "P" Zone Uses	MAXIMUM PB ZONE HEIGHTS No. No. No. 24 10 10	0 Ft., 5 Ft. or 10 Ft. depending on zoning frontage and zoning across street	5 Ft. plus 1 Ft. each story above 2nd if abutting or across street and frontage in "A" or "R" Zone	5 Ft. plus 1 Ft. each story above 2nd if abutting an "A" or "R" Zone	None	None		

# SPECIAL

- TENTATIVE CLASSIFICATION**  
(T) used in Combination with Zone Change Only-Delays issuance of Building Permits until Subdivision or Parcel Map Recorded or other conditions met as required by City Council.
- QUALIFIED CLASSIFICATION**  
(Q) Further restrictions on Property; used in Combination with Zone Changes Only (Except with RA, RE, RS or R1 Zones) restricts Uses of Property and Assures Development Compatible with the Surrounding Property
- DEVELOPMENT LIMITATION CLASSIFICATION**  
(D) Restricts absolute building heights, floor area ratio, percent of lot coverage and building setbacks
- SUBMERGED LAND ZONE**  
(SL) Commercial Shipping  
Navigation  
Fishing  
Recreation
- FUNDED IMPROVEMENT CLASSIFICATION**  
(F) An Alternative means of Effecting Zone Changes and Securing Improvements (When No Subdivision or Deductions are Involved)

# SUPPLEMENTAL USE DISTRICTS

SUPPLEMENTAL USE DISTRICTS:  
Established in Conjunction with Zone(s)

- O- Surface Mining
- O- Oil Drilling
- RPD- Residential Planned Development
- E- Equine keeping
- CA- Commercial and Aircraft

# COMMERCIAL

ZONE	USE	MAXIMUM HEIGHT		REQUIRED YARDS			MINIMUM AREA PER LOT/UNIT	MINIMUM LOT WIDTH	LOADING SPACE	PARKING REQUIRED
		STORIES	FEET	FRONT	SIDE	REAR				
CR	LIMITED COMMERCIAL Banks, Clubs, Hotels, Churches, Schools, Businesses and Professional, Child care, etc., parking areas, R <sub>4</sub> uses	6	75 Ft.		10 Ft. 10% lot width, 5-Ft. min. for corner lots; same as R <sub>4</sub> for resi- dential uses or adjoining an "A" or "R" Zone	15 Ft. plus 1 Ft. each story above 3rd	Same as R <sub>4</sub> for Residential Purposes  Otherwise None	40 Ft. Comm. 50 Ft. Use; resi- dential use	Hotels, in- stitutions, and with every building where lot abuts an alley  Minimum Loading Space 400 Sq. Ft.	One space per 500 Sq. Ft. of floor area within all buildings on any lot.
C1	LIMITED COMMERCIAL Local retail stores Offices or Businesses, Hotels, hospitals and/or Clinics, Parking Areas- C <sub>1.5</sub> uses except churches, schools and museums R <sub>1</sub> Uses	Unlimited (6)		10 Ft. min.	Same as R <sub>1</sub> for corner lots, or resi- dential uses or adjoining an "A" "R" Zone	15 Ft. plus 1 Ft. each story above 3rd, 20 Ft. exx.  residential Use or abutting an "A" or "R" Zone.	Same as R <sub>1</sub> for Residential purposes, except 5,000 Sq. Ft. per unit in C <sub>1</sub> -M Zones  Otherwise None	Additional Space Required for Buildings containing more than 50,000 Sq. Ft. of floor area.  None required for apartment buildings 30 Units or Less.	One space per 200 Sq. Ft. of total floor area of medical service facilities.	
C1.5	LIMITED COMMERCIAL C <sub>1</sub> uses-Department Stores, Theaters, Broadcasting Studios, Parking Buildings, Parks and Playgrounds R <sub>4</sub> uses.					yards provided at lowest residential story.  Other- wise None	Same as R <sub>4</sub> for Residential Purposes  Otherwise None			

ZONE	USE	MAXIMUM HEIGHT		REQUIRED YARDS			MINIMUM AREA PER LOT/UNIT	MINIMUM LOT WIDTH	LOADING SPACE	PARKING REQUIRED
		STORIES	FEET	FRONT	SIDE	REAR				
C2	COMMERCIAL C <sub>1.5</sub> Uses-Retail Businesses with Limited Manufacturing, Auto Services Station and Garage, Retail Contractors Businesses, Churches, Schools, R <sub>4</sub> Uses.	Unlimited (6)			None for Commercial buildings  Residen- tial uses- same as in R <sub>4</sub> Zone  yards provided at lowest residen- tial story.		Same as R <sub>4</sub> for Resi- dential Purposes  Otherwise None	40 Ft. Comm. Use; 50 Ft. resi- dential use	Hospitals, Hotels, in- stitutions, and with every building where lot abuts an alley  Minimum Loading Space 400 Sq. Ft.  Additional Space Required for Buildings containing more than 50,000 Sq. Ft. of floor area.  None required for buildings 30 units or less.	One space per 500 Sq. Ft. of floor area within all build- ings on any lot.  One space per 200 Sq. Ft. of total floor area of medical service facilities.
C4	COMMERCIAL C <sub>2</sub> Uses- (with Exceptions, such as Auto Service Stations, Amusement Enterprises, Hospitals Second-hand Businesses) R <sub>4</sub> Uses									
C5	COMMERCIAL C <sub>2</sub> Uses-Limited Floor Areas for Light Manufac- turing of the C <sub>4</sub> -Zone Type. R <sub>4</sub> Uses									
C6	COMMERCIAL MANUFACTURING Wholesale Busi- ness, Storage Buildings, Clinics, Limited manufac- turing, C <sub>2</sub> Uses-Except Hospitals, Schools, Churches, R <sub>1</sub> Uses				None for Industrial or Commer- cial build- ings  Residential Uses-same as in R <sub>4</sub> Zone		Same as R <sub>1</sub> for Resi- dential pur- poses  Other- wise None			