

HOUSING, COMMUNITY & ECONOMIC DEVELOPMENT

1330 BROADWAY, SUITE 937 OAKLAND, GALIFORNIA 94612-2505 TEL: 510/451-2552 FAX: 510/451-2554 draoakland@sbcgiobal.net

CITY OF LONG BEACH HOUSING TRUST FUND STUDY

EXECUTIVE SUMMARY

Submitted to:

Ms. Elizabeth B. Stochl Manager City of Long Beach Department of Community Development Housing Services Bureau 110 Pine Avenue Suite 1200 Long Beach, CA 90802

Submitted by:

David Paul Rosen & Associates 1330 Broadway, Suite 937 Oakland, CA 94612-2509 510.451.2552 draoakland@sbcglobal.net David Paul Rosen & Associates 3941 Hendrix Street Irvine, CA 92614-6637 949.559.5650 nlakebrown@cox.net

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2



TABLE OF CONTENTS

PAGE	111					
Background and Introduction 1						
Summary of Conclusions						
Definition of Affordable Housing						
Long Beach Affordable Housing Needs6						
Housing Trust Fund Policy Guidelines, Practices and Program Administration						
 Governance Structure						
Inclusionary Housing Policies and Analysis12						
 Measuring the Cost of Inclusionary Housing in Long Beach						
Land Residual Values: How to Read These Charts						
 What is Land Residual Analysis?						
Inclusionary Housing Production and In Lieu Fee Revenue Projections						
 Inclusionary Housing Unit Production						
Commercial Development Linkage Fee						
 Justifiable Nexus Fee						



LIST OF TABLES

<u>TABLE</u>

<u>PAGE</u>

1.	Affordable Housing Incomes, Wages, Rents and Sales Prices in Long Beach, 2003
2.	Demographic and Housing Profile, City of Long Beach
3.	Owner Housing Prototype Projects, Long Beach Inclusionary Housing Analysis 13
4.	Renter Housing Prototype Projects, Long Beach Inclusionary Housing Analysis 14
5.	Projections of Affordable Housing Unit Production, Alternative Inclusionary Requirements, Major Project List, March 2003 and Inventory of Residential Sites, 2000-2005 Housing Element
6.	Projections of In Lieu Fees at Alternative Inclusionary Requirements, Major Projects List, March 2003 and Inventory of Residential Sites, 2000-2005 Housing Element
7.	Justifiable Nexus Fee Per Building Square Foot by Land Use, 2003
8.	Estimated Total Development Impact Fees Per Building Square Foot, Selected Non-Residential Land Uses, Long Beach and Selected Southern California Cities and Counties, 2003
9.	Estimated Residual Land Value Per Square Foot Site Area, With and Without Commercial Development Linkage Fee, Selected Non–Residential Land Uses, City of Long Beach, 2003
10.	Commercial Linkage Fee Projections Assuming Fees Ranging from \$2.00 to \$10.00 per Square Foot Based on Major Projects List, March 2003



LIST OF CHARTS

<u>CHART</u>

<u>PAGE</u>

1.	Land Residual Values Based on Alternative Incentive/Compliance Options, Owner Prototype 1: Small Lot Single–Family Detached
2.	Land Residual Values Based on Alternative Incentive/Compliance Options, Owner Prototype 2: Townhomes
3.	Land Residual Values Based on Alternative Incentive/Compliance Options, Owner Prototype 3: Type V Stacked Flat Condos
4.	Land Residual Values Based on Alternative Incentive/Compliance Options, Owner Prototype 4: Type I High–Rise Condos
5.	Land Residual Values Based on Alternative Incentive/Compliance Options, Renter Prototype 1: Townhomes
6.	Land Residual Values Based on Alternative Incentive/Compliance Options, Renter Prototype 2: Type V Stacked Flat Apartments



LONG BEACH HOUSING TRUST FUND STUDY EXECUTIVE SUMMARY

BACKGROUND AND INTRODUCTION

The City of Long Beach faces a housing crisis where the demand for affordable housing will far outpace the supply for the foreseeable future. Housing affordable to low income, and in many cases moderate income, households cannot be developed in Long Beach without housing subsidies. Current sources of subsidies identified and used by the City – primarily Community Development Block Grants, HOME funds, redevelopment agency tax increment housing set-aside funds – are insufficient to meet current and near-term demand for affordable housing, even when leveraged with non-local sources of subsidies and private financing, such as tax credits and tax–exempt bonds.

To address this problem, the City retained David Paul Rosen & Associates (DRA) to explore the potential of establishing a Housing Trust Fund for the City of Long Beach. A Housing Trust Fund is a dedicated, annually renewable source of subsidy dedicated for the development and preservation of affordable housing.

Long Beach also seeks to take advantage of leverage opportunities afforded by the passage of a statewide bond measure in November, 2002 which provides matching funds to California jurisdictions with housing trust funds in place.

The Long Beach Housing Trust Fund Study analyzes key tools the City may consider for producing affordable housing and/or generating funds to capitalize a Housing Trust Fund: inclusionary housing and a commercial development linkage fee.

Inclusionary housing programs require residential developers to provide a percentage of total units at below market rents or sales prices in conjunction with the market-rate units in the project. Inclusionary housing is used by 107 communities in California to increase the production of housing affordable to very low, low and/or moderate income households.

A commercial development linkage fee, also known as a nexus fee, is charged on nonresidential development to mitigate the impact of the development on the housing market. In addition to generating demand for market rate housing, future employment growth will generate demand for housing affordable to lower and moderate income workers. Other cities in California, such as San Diego, Sacramento, Oakland and San Francisco, have established commercial development linkage fees to generate revenues for affordable housing development.



The Long Beach Housing Trust Fund Study consists of four parts:

- Part I: Housing Trust Fund Study Policy Guidelines, Practices and Program Administration – This report provides an outline of the issues the City should consider as it develops its housing trust fund program, including the form of governance, uses of the funds, capital planning, and administration.
- Part II: Inclusionary Housing Implementation Policies and Practices This report reviews policies and program options the City should address if it chooses to develop an inclusionary housing program. Major policy issues include affordable housing set-aside requirements, applicability to specific projects, term of affordability, options for compliance, and incentives that may be offered to developers to offset a portion of the costs of complying with inclusionary requirements.
- **Part III: Inclusionary Housing Economic Analysis** This report analyzes the economic effect to developers of complying with a potential inclusionary housing program in the City of Long Beach. It also quantifies the value of various incentives that may be offered to housing developers and determines the extent to which they offset the cost of providing affordable units.
- **Part IV: Commercial Development Linkage Fee Analysis** This report quantifies the nexus between various types of non-residential development and the demand for affordable housing in Long Beach and estimates the maximum supportable nexus fee under law. It also evaluates the potential economic impact of a commercial/industrial nexus fee in Long Beach on future commercial/industrial development.



SUMMARY OF CONCLUSIONS

Key components of a Housing Trust Fund for Long Beach may be supported by new programs which assess both commercial and residential development.

Commercial Linkage Fee Conclusion

Development impact fees in the range of \$10 to \$15 per square foot for affordable housing and other uses, on top of current Long Beach fees, are supportable while maintaining land values in the range of recent market sales and appraised values (typically \$15 to \$25 per SF).

Inclusionary Housing Conclusions

The following inclusionary requirements are feasible for most housing prototypes in Long Beach:

Renter housing: 10% of units affordable for \$25,000 family income (family of four, 2003);

Owner housing: 15% of units affordable for \$50,000 family income (family of four, 2003).

In Lieu Fees

Inclusionary housing in lieu fees should be set at the economic equivalency of providing affordable unit on-site.

In lieu fee equals appx. \$14,000 per unit on all units for rental units at a 10% inclusionary requirement for families at \$25,000 income level.

In lieu fee equals appx. \$12,000 per unit on all units for owner housing at a 15% inclusionary requirement for families at \$50,000 income level.



DEFINITION OF AFFORDABLE HOUSING

The focus of this study is on housing affordable to working people and retired people on modest fixed incomes. Long Beach is home to a large number of low-wage workers. Decent affordable housing is out of reach for most of these workers.

This study analyzes two affordability standards for renters. The first is based on a household earning 45 percent of the current area median income in Los Angeles County, or approximately \$25,000 for a family of four in 2003. Some of the occupations earning less than this amount in Long Beach today are: fast food workers, garment workers, cashiers, nurses aides, security officers, janitors, telemarketers, dental assistants, truck drivers, receptionists, data entry clerks, sales agents and bookkeepers. The second affordability standard for renters is based on a household earning 60 percent of area median income, or approximately \$34,000 for a family of four.

The affordability standard for owners is based on a household earning 90 percent of the current area median income in Los Angeles County, or approximately \$50,000 for a family of four in 2003. Some of the occupations earning less than \$50,000 in Long Beach today are: firefighters, police officers, bank tellers, office clerks and registered nurses.

The study employs the commonly accepted federal and State affordable housing legal standard of renter households spending 30 percent of their gross income for rent and utilities. For owners, the legal standard employed is 35 percent of gross income for principal, interest, property taxes, insurance, utilities and homeowner association/maintenance costs.

Affordable housing incomes, wages, rents and sales prices in Long Beach based on the definitions used in the study are summarized in **Table 1** below.



Table 1Affordable Housing Incomes, Wages, Rents and Sales Prices in Long Beach2003

Percent of Area Median Income (AMI):	45% AMI	90% AMI	
Annual Income, Family of Four (2003)	\$25,400 ¹	\$49,600 ²	
Hourly Wage, Two Wage- Earners	\$6.00	\$12.00	
Hourly Wage, One Wage- Earner	\$12.00	\$24.00	
Affordable Rent ³	\$556	Not Applicable	
Affordable Home Purchase Price⁴	Not Applicable	\$142,000	
Sample Occupations (earning that annual income)	Bank teller, hotel desk clerk, cashier, janitor, dental assistant, truck driver, receptionist, sales agent, bookkeeper	Police officer, firefighter, office clerk, licensed vocational nurse, registered nurse, teacher	

¹Based on U.S. Department of Housing and Urban Development (HUD) 2003 very low income limits for a family of four pro rated to 45 percent of area median income.

Source: David Paul Rosen & Associates

²Based on California Department of Housing and Community Development (HCD) 2003 median income limits for a family of four pro rated to 90 percent of area median income.

³Assumes 30 percent of gross income spent on housing costs (rent plus utilities), less a \$79 monthly utility allowance (gas and electric) for a two-bedroom apartment.

⁴Assumes 35 percent of gross income spent on housing costs (principal, interest, property taxes, insurance, utilities and maintenance), a 7.5 percent mortgage interest rate and a 10 percent downpayment.



LONG BEACH AFFORDABLE HOUSING NEEDS

The City of Long Beach faces a housing crisis where the demand for affordable housing will far outpace the supply now and for the foreseeable future. Economic recovery has resulted in a rapid increase in housing prices and rents, increasing the burden on lower income working families and those with special needs. Residents in certain areas have high levels of housing overpayment and overcrowding. The City's housing stock is aging and in need of reinvestment. In addition to affecting the quality of life of the City's existing residents, the affordability of housing is a factor in the location decisions of major employers the City would like to attract to Long Beach. Further, the affordable housing crisis faced by Long Beach residents results in less household spending for local business, representing a drag on the local economy.

Some of the key affordable housing needs in Long Beach are highlighted below. **Table 2** provides a demographic and housing profile for Long Beach.

1. Overpayment on Housing

Housing costs in Long Beach are increasing at a faster rate than incomes, decreasing the affordability of housing for working families, and increasing household spending for local businesses.

- Nearly one-fourth of the City's renters, or about 22,000 households, spend more than half of their incomes for rent and utilities.
- These 22,000 families must choose each month between rent, food, medicine or clothing for their children.
- Only about 6,000 renter households, or about 7 percent of renter households, receive Section 8 housing assistance.

2. Owner Occupancy is Moving Further Out of Reach

As housing costs increase faster than rents, homeownership moves out of reach for more and more renter households.

- Only 41% of the City's households are owners; 59% are renters.
- Absentee ownership of single-family homes and small apartment buildings contributes to neighborhood decline.



3. Substandard Conditions

The City's housing stock is aging. As housing reaches 30 years of age or older, major rehabilitation is required to preserve the long-term physical condition of the units.

- 75% of the City's housing stock is more than 30 years in age; one-third is older than 50 years.
- Housing conditions are deteriorating despite City's considerable code enforcement and NIS efforts.
- Absentee ownership contributes to substandard conditions.

4. Overcrowding

Due to the high cost of housing in Long Beach relative to incomes, many households double-up or include extended family members to make housing more affordable, exacerbating overcrowding in the City.

- 1 in 5 renter households (about 10,000 families) live in severely overcrowded housing, representing the equivalent of seven persons in a two bedroom unit.
- 60 percent of existing rental housing consists of efficiency (studio) or onebedroom apartments.
- The majority of the City's population growth occurs in large families, exacerbating overcrowding.

5. Deteriorating Neighborhoods

Numerous factors contribute to severe deterioration and instability in certain Long Beach neighborhoods:

- Shortage of housing affordable to lower income residents;
- Absentee ownership;
- Substandard conditions;
- Insufficient code enforcement;
- Household overcrowding.



Table 2 Demographic and Housing Profile City of Long Beach

	Number	Percent
Total Population	461,552	
Renter Households Owner Households Total Households	96,160 <u>66,928</u> 163,088	59.0% <u>41.0%</u> 100.0%
Average Household Size (Number of Persons)	2.77	
Renter Household Overpayment Paying More than 30% of Income for Housing ¹ Paying More than 50% of Income for Housing ²	44,100 22,000	46% 23%
Age of Housing Stock Units Over 30 Years of Age Units Over 50 Years of Age	120,300 57,000	74% 35%
Overcrowded Renter Households ³ Severely Overcrowded Renter Households ⁴	27,800 19,200	29% 20%
Households Earning Between \$25,000 and \$50,000 ⁵ Households Earning Less than \$25,000 ⁵ Households Receiving Section 8 Assistance	73,000 56,000 6,000	45% 34% 4%

Source: 2000 U.S. Census; City of Long Beach; David Paul Rosen & Associates

¹ "Overpayment" defined by the U.S. Department of Housing and Urban Development (HUD) as paying more than 30% of gross household income for housing costs (rent plus utilities).

² "Severe overpayment" defined by HUD as paying more than 50% of gross household income for housing costs (rent plus utilities for renters).

³ Defined by HUD as more than 1.0 persons per room, or about 5 persons in a 2 BR unit.

⁴ Defined by HUD as more than 1.5 persons per room, or about 6 persons in a 2 BR unit.

⁵ Based on 2000 U.S. Census



HOUSING TRUST FUND POLICY GUIDELINES, PRACTICES AND PROGRAM ADMINISTRATION

A Housing Trust Fund is a dedicated, annually renewable source of funding for the development and preservation of affordable housing. The City of Long Beach should consider a number of issues as it develops its housing trust fund program. These include the governance structure, program development and eligible uses, capital planning, and administration.

1. Governance Structure

One of the most important decisions is the governance structure. DRA recommends that the City retain complete control over the governance and administration of a housing trust fund. Retaining control over governance and administration allows the City to meet its public policy interests with housing trust funds without need for approvals from independent entities that may have conflicting interests or opinions from the City. We expect that primary sources of funding for a housing trust fund would be public sources, such as redevelopment agency set-aside funds, HOME funds, and Community Development Block Grants. New potential sources of revenues for a housing trust fund would be commercial linkage fees and in lieu fees from an inclusionary housing program. It is unlikely that foundations and corporations will support funding. Because sources of funds for a housing trust fund are most likely to be public, the City should retain control over governance of the housing trust fund.

2. **Program Development and Eligible Uses**

When establishing a housing trust fund, most jurisdictions use general language when defining the purpose, and therefore the eligible uses, of a housing trust fund. For example, jurisdictions will state that a housing trust fund is used to support the production and preservation of affordable housing. By using such general language, the jurisdiction has flexibility to target a variety of housing needs.

Similar to defining eligible uses of funds, the City should broadly define eligible borrowers and/or grantees of the housing trust fund. Broadly defining eligible borrowers and grantees when initially developing a housing trust fund provides the City with flexibility to meet a variety of affordable housing needs over time.

The City can also target particular borrowers/grantees. In these cases, the City can skew criteria for the award of funds to these targeted groups. For example, if the City seeks to target nonprofit housing developers (rather than for-profit developers) with a NOFA for affordable housing development, then it can provide additional points to nonprofit housing developers in the criteria for awarding funds.



Typically, jurisdictions will target very low and low income households when funding rental housing. Jurisdictions will target low and moderate income households when funding ownership housing, both through owner housing development and home purchase assistance. It is usually difficult to provide affordable homeownership opportunities for very low income households because of the high per unit subsidies required to serve that targeted income group and the relative lack of sources of funds to leverage housing trust funds.

The City can structure its housing assistance to meet multiple public policy goals. For example, the City can focus on acquisition and rehabilitation as a strategy to provide affordable housing opportunities as well as encourage neighborhood revitalization. Community revitalization efforts can be geographically targeted to focus scarce resources on designated neighborhoods to enhance the impact of community development efforts.

3. Capital Planning

A key tool that the City can use to develop housing program priorities and a framework for housing trust fund spending is a long-term capital plan. A capital plan can assist the City with making program decisions based on the amount of projected revenues available from a housing trust fund and the sources of leverage financing available.

A capital plan incorporates projections of housing trust fund revenues, anticipated leverage, costs associated with affordable housing program options, and estimates of the number of households assisted by affordable housing program option. Ideally, capital plans represent three to five year rolling projections, revised annually.

4. Administration

Program administration issues include funding mechanisms, forms of financial assistance, underwriting and deal structuring, and asset management.

The two general categories of funding mechanisms are a notice of funds availability (NOFA) process or a request for proposals (RFP) process. Each method has its advantages and disadvantages. With an RFP process, the City announces that funds are available and sets a deadline for submittal of applications. In contrast with a NOFA, the City will review all proposals at one time and make funding decisions based upon the projects that best meet funding criteria. This process is especially useful if there is competition for funds. On the other hand, a NOFA process, under which funds are available on a first-come, first-served basis may have advantages if the City seeks to work with development partners to acquire sites. Because acquisition of sites is opportunity driven, an open window to access funds allows developers to seek the best opportunities.



There are two fundamental forms of financial assistance a jurisdiction can provide for affordable housing: grants or loans. The most appropriate form of financial assistance depends upon the uses of housing trust funds (e.g. predevelopment, construction or permanent financing, land banking, sponsor capacity building, operating subsidies).

All lenders underwrite loans to manage risk. Because the City is typically in a subordinate position, managing risk is a significant challenge. In addition, City staff is charged with preserving the safety of the City's funds while maintaining its role as the primary catalyst for affordable housing production. Factors to consider include the quality of underwriting standards, experience of the underwriter, and the quality and extent of information available. Important underwriting criteria include projected rental income and sales prices, loan to value ratio, debt coverage ratio, operating expenses, inflation factors, vacancy rates, replacement reserves and sponsor capacity.

Asset management is also a process and system of managing risk. Once a loan is funded, risk management shifts away from the underwriting and due diligence process and becomes a process of information gathering, monitoring, and undertaking appropriate strategies for addressing problems, if necessary. The quality of information and the capacity of City staff to provide management with timely, accurate and complete information determine the ability of public agencies to manage the risks inherent in their portfolios. When developing its asset management systems, the City should establish processes, practices and procedures that will guard against loss, ensure that the City's regulatory requirements are met, track repayment obligations to the City and provide underwriting staff with feedback on the underwriting standards they use to evaluate projects.



INCLUSIONARY HOUSING POLICIES AND ANALYSIS

Conclusion

The following inclusionary requirements are feasible for most housing prototypes in Long Beach:

Renter housing:

10% of units affordable for \$25,000 family income (family of four, 2003);

Owner housing:

15% of units affordable for \$50,000 family income (family of four, 2003).

Discussion

An inclusionary housing policy can be an important catalyst for the development of affordable housing. The City of Long Beach currently has a voluntary inclusionary housing program, which has not been successful in producing affordable housing in the City. Inclusionary housing ordinances can produce units directly or through in lieu fees, and can be an important source of subsidy to finance affordable housing development.

Key policy issues that should be addressed by an inclusionary housing program include income targeting, the percent of units to be set-aside as affordable, and the term of affordability for those units. The City should also address the applicability of the inclusionary requirements, geographically and in terms of minimum project size, and the effective date or phasing in of the requirements. Another issue is permitted compliance options, which may include on- and/or off-site construction of the affordable units, payment of in lieu fees and land dedication, among others.

Inclusionary housing imposes a prospective cost on development that can be partially to completely offset with economic incentives and alternative compliance options. DRA conducted an economic analysis which measures the cost of alternative inclusionary requirements against the value of incentive and alternative compliance "packages" to offset costs or otherwise provide incentives to market-rate housing. This analysis will assist policymakers in making informed decisions about inclusionary housing for Long Beach.

DRA analyzed the potential impact of alternative inclusionary housing requirements and incentives based on how housing actually gets built in Long Beach today. The cost to build market-rate housing in Long Beach today was carefully analyzed using six prototypical market rate housing developments representing typical rental and owner housing currently or prospectively being built in Long Beach.

Table 3 describes the four owner housing prototypes used in the economic analysis.Table 4 describes the two rental housing prototypes analyzed.



Table 3 Owner Housing Prototype Projects Long Beach Inclusionary Housing Analysis 2003

	Owner 1	Owner 2	Owner 3	Owner 4
	Small Lot		Type V Stacked	Type I High-
PROTOTYPE	S-F Detached	Townhomes	Flat Condos	Rise Condos
Total Unit Count	10 Units	22 Units	50 Units	100 Units
Zoning	R-1-M, R-1-S, R-1-T	R-3-T	R-4-R, R-4-N	R-4-U
FAR	0.44	0.75	1.98	2.94
Resident Population	Family	Family	Family	Family
Product Type	SFD	Townhomes	Stacked Flats	Stacked Flats,
	2 Story, PUD	2 Stories	5 Stories	9 Stories
Construction Type	Type V	Type V with	Type V over	Type I over
	with Garages	Covered parking	Podium Parking	Underground
		, u		Parking
Density (DU's/Acre)	15	25	70	100
Net Site Area (Acres)	0.67 Acres	0.88 Acres	0.71 Acres	1.00 Acres
Streets, etc @ % of Gross:	20.00%	0.00%	0.00%	0.00%
Gross Site Area	0.838 Acres	0.880 Acres	0.710 Acres	1.000 Acres
Units by BR Count				
Lofts	0	0	0	10
One Bedroom	0	0	7	10
Two Bedroom/1 Bath	0	13	8	10
Two Bedroom/2 Bath	4	0	25	50
Three Bedroom	6	. 9	10	20
Unit Size (Net SF)				
Lofts	0	0	0	800
One Bedroom	0	0	800	800
Two Bedroom/1 Bath	0	1,100	1,000	1.000
Two Bedroom/2 Bath	1,150	0	1,100	1,100
Three Bedroom	1,350	1,300	1,400	1,400
Four Bedroom	0	0	0	0
Manager's	0	0	0	0
Ave. (Exclud. Mgr's)	1,270	1,182	1,102	1,090
Building Square Feet				
Net Living Area	12,700	26,000	55,100	109,000
Type of Parking	Attached	1 Level	1 Level	2 Levels
	Garages	Semi-Subterranean	Subterranean (1)	Subterranean (1)
	4,000 SF	7,508 SF	15,441 SF	30,724 SF
	200 SF/Space	28 Standard	57 Standard	113 Standard
		27 Compact	56 Compact	112 Compact
No. of Parking Spaces	20	55	113	225

(1) Plus 1 ground level parking. Source: David Paul Rosen & Associates.

City of Long Beach Housing Trust Fund Study **Executive Summary**



Table 4 Renter Housing Prototype Projects Long Beach Inclusionary Housing Analysis 2003

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	Renter 1	Renter 2
· ·		Type V Stacked
PROTOTYPE	Townhomes	Flats Apartments
Total Unit Count	22 Units	50 Units
Zoning	R-3-T	R-4-R, R-4-N
FAR	0.64	1.76
Resident Population	Family	Family
Product Type	Townhomes	Stacked Flats
, , , , , , , , , , , , , , , , , , ,	2 Stories	5 Stories
Construction Type	Type V	Type V
Density (DU's/Acre)	25	70
Land Area (Acres)	0.88 Acres	0.71 Acres
Units by BR Count		
One Bedroom	4	7
Two Bedroom/1 Bath	3	8
Two Bedroom/2 Bath	11	25
Three Bedroom	4	10
Unit Size (Net SF)		
One Bedroom	900	800
Two Bedroom/1 Bath	950	950
Two Bedroom/2 Bath	1,000	1,000
Three Bedroom	1,200	1,100
Average	1,011	984
Building Square Feet		
Net Living Area	22,250	49,200
Type of Parking	1 Level	1 Level
	Semi-Subterranean	Subterranean (1)
	7,508 SF	15,441 SF
	28 Standard	57 Standard
	27 Compact	56 Compact
No. of Parking Spaces	55	113

(1) Plus 1 ground level parking.

Source: David Paul Rosen & Associates



1. Measuring the Cost of Inclusionary Housing in Long Beach

Inclusionary housing imposes a cost on residential development. The DRA study takes care to quantify the cost of imposing an inclusionary obligation on housing developers in Long Beach. The study also measures the economic value of various incentives and alternative compliance options the City may provide to offset this cost.

DRA used a land residual analysis approach to quantify the potential economic impact of inclusionary housing requirements in Long Beach. Land residual analysis is commonly used by real estate developers, lenders and investors to evaluate development financial feasibility and select among alternative uses for a piece of property. The land residual methodology calculates the value of a development based on its income potential and subtracts the costs of development and developer profit to yield the underlying value of the land. A land use that generates a negative land value is not financially feasible. Similarly, a use that generates a land value lower than the land seller is willing to accept is infeasible. Recent land sales ("market comparables") provide an indication of the range of land prices sellers may accept in Long Beach today.

Land residual analysis is the most realistic way to view the potential impact of inclusionary requirements on residential development in the City of Long Beach. Since developers and landlords charge the maximum rents and sales prices the market will bear, any increase in development costs resulting from government regulation, or other factors, will ultimately impact the price of land and/or profits to developers and owners. Increases in development costs do not lead to increases in rents or home prices, since these are governed by market forces of supply and demand. A reduction in developer profit margins does not necessary render a project infeasible. Developers typically have "threshold" profit and overhead requirements. These requirements are built into the development costs in this analysis.

In some market climates developers are willing to build, and lenders and investors are willing to finance, a development based on a "future value." One example of such "speculative" development is constructing apartments that may later be sold as condominiums.



2. Findings of the Economic Analysis

The findings of the land residual analysis are summarized in Charts 1 through 6 for the owner and renter prototypes, respectively. The findings indicate that the prototypes remain feasible with an inclusionary set-aside requirement, offset by one or more incentive packages.

Comparing the residual land values generated by the all market-rate prototypes with the various "packages" of inclusionary requirements, incentives and compliance alternatives provides an indication of the financial effect of the "package" upon the development economics of that prototype.

LAND RESIDUAL VALUES: HOW TO READ THESE CHARTS

1. What Is Land Residual Analysis?

Land residual analysis is commonly used by real estate developers and investors to evaluate development financial feasibility. The land residual methodology calculates the value of a development based on its income potential and subtracts the costs of development and developer profit to yield the underlying value of the land. A use that generates a negative land value, or a value below the price land sellers are willing to accept, is not financially feasible.

2. What Are the Incentive/Compliance Options?

DRA analyzed the various combinations of inclusionary requirements, incentives, and compliance options listed in the chart key based on the following definitions:

- <u>All options</u> require 10% of total units to be affordable to households at 45% of area median income for renters and 15% of total units to be affordable to households at 90% of area median income for owners, or approximately \$25,000 and \$50,000, respectively, for a family of four in Long Beach in 2003.
- <u>No offsets</u> means the developer provides the required affordable units through on-site construction identical to the market-rate units, with no offsets, incentives, or alternative compliance options.
- <u>25% and 50% density bonuses</u> add units onto the base density of the prototype. The affordability requirement is assumed to equal 10 percent of the higher post-bonus unit count.



- <u>Affordable unit modifications</u> assume affordable units incorporate the following cost-saving modifications to market-rate units: reduced unit sizes (to 700 square feet for a one-bedroom, 900 square feet for a two-bedroom, and 1,100 square feet for a three-bedroom); reduced interior finish quality; and reduced bathroom count (from two baths to one bath in two-bedroom/two-bath market rate units).
- <u>Off-site compliance</u> assumes the developer is allowed to develop the affordable units off-site, to benefit from lower land prices in different locations in the City.
- <u>Acquisition/rehabilitation compliance</u> assumes the developer is allowed to meet the affordable housing requirement by acquiring, rehabilitating, and preserving in perpetuity existing multi-family rental units in place of new construction. Substantial rehabilitation and relocation costs are assumed.

3. What Do the Bars Represent?

• Market land sales comparables are actual per square foot sales prices and appraised values for sites with residential and planned development zoning in Long Beach. The bars represent the predominate range of recent land sales prices and appraised values for residentially zoned land in Long Beach, as measured by the middle two-thirds of recent property sales and appraisals.

4. What Do the Numbers and Dots Represent?

- The bulls-eye dots represent the residual land value per square foot of site area for the housing prototypes assuming 100 percent market units, providing a benchmark for the feasibility of that housing type in today's market as reflected by the range of market land values.
- The numbered dots represent residual land values for alternative incentive/compliance options. DRA re-calculated the land residual assuming various "packages" of inclusionary housing requirements, incentives and alternative compliance measures designed to lessen the cost of inclusionary housing.
- When the bulls-eye and numbered dots fall within the bar areas, the residual land values generated by the prototype and "package" option are within the range of recent land sales comparables in Long Beach, and should generally be reviewed as financially feasible.



All options require 15% of total units to be affordable to households at 90% (45% for package 6) of the area median income; approximately \$50,000 for a household of four in Long Beach, 2003.

generally be reviewed as financially feasible.

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The bar represents actual recent residential and planned development land sales comparables and appraised values in Long Beach between 1998 and 2003 ranging between \$13 to \$99 per square foot. When the bulls-eye and numbered dots fall within the bar areas, the residual land values generated by the prototype and "package" option are within the range of recent land sales comparables in Long Beach, and should generally be reviewed as financially feasible.

* All options require 15% of total units to be affordable to households at 90% (45% for package 6) of the area median income; approximately \$50,000 for a household of four in Long Beach, 2003.

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* All options require 15% of total units to be affordable to households at 90% (45% for package 6) of the area median income; approximately \$50,000 for a household of four in Long Beach, 2003.

generally be reviewed as financially feasible.

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The bar represents actual recent residential and planned development land sales comparables and appraised values in Long Beach between 1998 and 2003 ranging between \$13 to \$99 per square foot. When the bulls-eye and numbered dots fall within the bar areas, the residual land values generated by the prototype and "package" option are within the range of recent land sales comparables in Long Beach, and should generally be reviewed as financially feasible.

* All options require 15% of total units to be affordable to households at 90% (45% for package 6) of the area median income; approximately \$50,000 for a household of four in Long Beach, 2003.

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100% Market-Rate Units



generally be reviewed as financially feasible.
* All options require 10% of total units to be affordable to households at 45% of the area median income;

approximately \$25,000 for a household of four in Long Beach, 2003.

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 * All options require 10% of total units to be affordable to households at 45% of the area median income; approximately \$25,000 for a household of four in Long Beach, 2003.

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INCLUSIONARY HOUSING PRODUCTION AND IN LIEU FEE REVENUE PROJECTIONS

1. Inclusionary Housing Unit Production

Table 5 provides projections of housing unit production based on the City of Long Beach Major Projects list, March 2003 and the City's Inventory of Residential Sites as incorporated in the City of Long Beach's 2000-2005 Housing Element. The projections assume all of the residential developments on the two lists are completed at the tenures (owner/renter split) and densities anticipated in the Major Projects List and Housing Element.

Table 5
Projections of Affordable Housing Unit Production
Alternative Inclusionary Requirements
Major Projects List, March 2003 and
Inventory of Residential Sites, 2000-2005 Housing Element

Inclusionary Requirement:	10	%	15%		20%	
•	Renter	Owner	Renter	Owner	Renter	Owner
Major Projects List Entitlements Granted Preliminary Approvals Total ¹	20 <u>10</u> 30	12 <u>44</u> 56	30 <u>14</u> 44	18 <u>66</u> 84	40 <u>19</u> 59	24 <u>89</u> 112
Inventory of Residential Sites ²	91	14	105	21	182	28
Total	121	70	191	105	242	140

Source: City of Long Beach Major Projects List March, 2003; Inventory of Residential Sites, City of Long Beach 2000-2005 Housing Element; David Paul Rosen & Associates.

¹ Assumes a total of 296 renter units and 562 owner units.

² Assumes a total of 912 renter units and 139 owner units.



2. Inclusionary In Lieu Fee Revenue Projections

Conclusions

Inclusionary housing in lieu fees should be set at the economic equivalency of providing affordable unit on-site.

In lieu fee equals appx. \$14,000 per unit on all units for rental units at a 10% inclusionary requirement for families at \$25,000 income level.

In lieu fee equals appx. \$12,000 per unit on all units for owner housing at a 15% inclusionary requirement for families at \$50,000 income level.

Discussion

In designing its inclusionary housing program, the City of Long Beach can choose to require on- or off-site construction of affordable units, or to permit developers to pay an in lieu fees as an alternative compliance measure. To ensure that developers do not have an incentive to pay in lieu fees rather than build inclusionary units, in lieu fees must be set at the economic equivalency of providing affordable unit on-site. If in lieu fees are set at amounts lower than this economic equivalency, then developers have a financial incentive to pay fees rather than build inclusionary units.

With rental developments, the economic equivalent of providing an affordable unit on-site is the affordability gap. The renter affordability gap is the difference between the total development cost of the unit and the amount of mortgage that the net cash flow of an affordable unit can produce. For the Type V Stacked Flat apartment prototype (a common type of rental development in Long Beach), the in lieu fee equals \$14,191 per unit (on all units) assuming a 10% inclusionary requirement targeting households at 45% of area median income.

With ownership units, the economic equivalent of providing an affordable unit on-site is the difference between the market price of the units in a development and the amount of mortgage and downpayment that a targeted household can afford. For the Type V Condominium prototype (a common type of owner development in Long Beach) the in lieu fee for owner housing equals \$12,114 per unit (on all units) assuming a 15% inclusionary requirement targeted to households earning 90% of area median income.



Table 6 provides projections of in lieu fees based on the City of Long Beach Major Projects list, March 2003 and the Inventory of Residential Sites from the City's 2000 to 2005 Housing Element. The projections are based on the following assumptions:

- all of the residential developments on the Major Projects and Housing Element Inventory of Residential Sites list are completed at the densities and tenures anticipated in the Major Projects List and Housing Element;
- all developers choose to pay the in lieu fee rather than provide inclusionary units; and
- the per unit amount of the in lieu fee is tied to the affordability gap analysis for the housing prototype considered most representative of the type of development anticipated on each site. For renter units, it represents the gap to development cost. For owner units, it represents the gap to market price, based on estimated sales prices for the owner housing prototypes (the same sales prices used in the land residual analysis described above).
- Based on the above assumptions, a 10 percent requirement on renter housing and a 15 percent requirement on owner housing would produce 226 units of affordable housing or the equivalent amount of in lieu fee revenues to City of \$27.3 million.



Table 6 Projections of In Lieu Fees at Alternative Inclusionary Requirements Major Projects List, March 2003 and Inventory of Residential Sites, 2000-2005 Housing Element

Millions of 2003 Dollars

Inclusionary Requirement:	10%		15%		20%	
	Renter	Owner	Renter	Owner	Renter	Owner
Major Projects List Entitlements Granted Preliminary Approvals Total ¹	\$2.9 _ <u>1.3</u> \$4.2	\$1.1 <u>4.1</u> \$5.2	\$4.3 <u>\$2.0</u> \$6.3	\$1.6 <u>6.2</u> \$7.8	\$ 5.9 <u>8.2</u> \$14.1	\$ 2.1 <u>8.3</u> \$10.4
Inventory of Residential Sites ²	\$13.0	\$1.5	\$19.5	\$2.3	\$26.0	\$3.0
Total	\$17.2	\$6.7	\$25.8	\$10.1	\$34.4	\$13.4

Source: City of Long Beach Major Projects List March, 2003; Inventory of Residential Sites, City of Long Beach 2000-2005 Housing Element; David Paul Rosen & Associates.

¹ Assumes a total of 296 renter units and 562 owner units.

² Assumes a total of 912 renter units and 139 owner units.



COMMERCIAL DEVELOPMENT LINKAGE FEE

Conclusion

Development impact fees in the range of \$10 to \$15 per square foot for affordable housing and other uses, on top of current Long Beach fees, are supportable while maintaining land values in the range of recent market sales and appraised values (typically \$15 to \$25 per SF).

Discussion

The City of Long Beach retained David Paul Rosen & Associates (DRA) to prepare a nexus study examining the legality and basis for establishing a rational nexus between non-residential development and the need for affordable housing in the City of Long Beach. In addition to market rate housing, future employment growth will generate demand for housing affordable to lower and moderate income workers. Other cities in California, such as San Diego, Sacramento, Oakland and San Francisco, have established commercial development linkage fees, also known as nexus fees, to generate revenues for affordable housing development. Through payment of these fees, non-residential developers mitigate at least a portion of the impact of their developments on the housing market. The study analyzes the supportable fee in Long Beach based on the nexus between non-residential development and affordable housing.

The nexus analysis employs a tested nexus and gap methodology that has proven acceptable to the courts. The economic analysis uses a conservative approach to understate the legally supportable fee amount. Therefore, the housing impacts are likely even greater than indicated in the analysis. Using conservative assumptions, justified fee amounts are still above those likely to be considered reasonable and sustainable in the market.

The nexus analysis estimates the number of households by land use living in Long Beach and qualifying as very low, low or moderate income. DRA prepared a housing affordability gap analysis to calculate the development impact fee required to make housing affordable to these new Long Beach households. The affordability gap analysis calculates the capital subsidy required to develop housing affordable to families at specified income levels.

The results of the gap analysis were used to determine the fee amount by land use that would be required to develop housing affordable to the very low, low and moderate income households who will need to find housing in Long Beach in connection with new non-residential development in the City.



1. Justifiable Nexus Fee

The economic analysis estimated the supportable fees in **Table 7** under consistently conservative assumptions.

Household	Supportable Nexus Fee Per Building Square Foot						
Income Category	Office	Light Mfg.	"Big Box" Retail	Community Retail	Hotel		
Very Low	\$11.84	\$8.88	\$7.40	\$13.32	\$7.40		
Low	\$6.40	\$5.12	\$6.40	\$12.80	\$2.56		
Moderate	\$5.40	\$1.20	\$1.20	\$3.00	\$0.60		
Total	\$23.64	\$15.20	\$15.00	\$29.12	\$10.56		

Table 7Justifiable Nexus Fee Per Building Square Foot by Land Use2003

Source: David Paul Rosen & Associates.

2. Economic Impact of Nexus Fees

A number of communities in California have adopted linkage fees. Our interviews with developers indicated that fees in at least nine jurisdictions, some of which have been in place for more than fifteen years and through one or two full business cycles, have had no discernible impact on development. One reason may be that fee levels are relatively small as a percentage of development costs and rents, and therefore do not affect developers' decisions to build or not build, which are based on the strength of market demand. Even in San Francisco, where affordable housing linkage fees exceed \$14.00 per square foot and have been in place since 1985, there has been no measurable effect on the pace of commercial development in the city.

Nexus fees should be assessed in combination with all other fees in the City of Long Beach and compared with total development fees in other locations in the market area, along with other competitive factors. Long Beach City staff conducted a survey of development impact fees in selected Southern California cities and counties, summarized in **Table 8**.



Table 8 Estimated Total Development Impact Fees Per Building Square Foot Selected Non-Residential Land Uses Long Beach and Selected Southern California Cities and Counties 2003

City	Retail	Office	Hotel	Restaurant	Warehouse/ Light Mfg.
Carson	\$0.42	\$0.42	\$0.42	\$0.42	\$0.33
Glendale	\$1.02	\$1.04	\$1.01	\$1.32	\$0.69
Long Beach	\$4.00	\$3.23	\$3.42	\$1.49	\$1.81
City of Los Angeles ¹	\$1.13 plus transp.	\$1.41 plus transp.	\$1.65 plus transp.	\$1.67 plus transp.	\$1.21 plus transp.
Los Angeles County	\$0.89	\$0.89	\$0.89	\$0.89	\$0.89
Pasadena	\$5.59	\$6.41	\$7.11	\$7.17	\$5.82
Santa Ana	\$10.28 plus sewer	\$10.28 plus sewer	\$11.20 plus sewer	\$11.20 plus sewer	\$9.71 plus sewer
Santa Monica	\$0.31	\$8.84	\$0.31	\$0.31	\$0.31
Torrance	\$1.54	\$1.54	\$1.54	\$1.54	[~] \$1.54

Note: Fees are based on 50,000 square foot building prototypes.

Source: City of Long Beach staffs' survey of development impact fees; David Paul' Rosen & Associates.

¹ City of Los Angeles transportation impact fee is calculated on a per trip/per project basis. City of Los Angeles development impact fees approximate or exceed those in the City of Long Beach when transportation impact fees are included.



3. Land Residual Analysis

DRA also evaluated the potential impact of a potential nexus fee on non-residential development using a land residual analysis methodology, as described above for the inclusionary housing analysis.

DRA calculated net operating income from a 100,000 square foot building prototype for each commercial land use examined based on estimated market rents, vacancy rates and operating costs. Net operating income was capitalized assumed capitalization rates ranging from 8.5 percent to 9.0 percent (based on recent capitalization rate data) to determine the value of the developed property. The capitalization rate is the ratio of net operating income to project fair market value, or sales price, exhibited in the market and reflects the rate of return required by investors in rental property. Total development costs are then subtracted from the capitalized value to yield the estimated residual land value. The resulting residual land values per square foot site area, at various assumed levels of a nexus fee, are summarized in **Table 9**.

DRA compared the derived residual land values with recent sales comparables and appraisal data for vacant land with commercial, industrial and planned development zoning in Long Beach. Commercial land sales comparables obtained from Dataquick Information Systems ranged from \$14 to \$54 per square foot, with a median value of \$28 per square foot. Industrial land sales comparables from Dataquick ranged from \$9 to \$64 per square foot, with a median of \$22 per square foot. Appraisals provided to DRA by the City of Long Beach documented sales comparables and appraised values for vacant sites with commercial and planned development zoning in 2002 and 2003 ranging from \$9 to \$30 per square foot, with a median of \$20 per square foot.

The findings of the analysis suggest that commercial development linkage fees in the range of \$10 per square foot for most uses, and in some cases as high as \$15 per square foot, are supportable in Long Beach while maintaining residual land values in the range of recent market sales comparables and appraised values. Since the economic impact of the fee on development is not dependent upon the use of the fee, this analysis can be applied to other development impact fees on non-residential development under consideration in the City of Long Beach.



Table 9 Estimated Residual Land Value Per Square Foot Site Area With and Without Commercial Development Linkage Fee Selected Non-Residential Land Uses City of Long Beach 2003

Assumed Nexus Fee Per Bldg. SF	Residual Land Value Per SF Site Area				
	Office	"Big Box" Retail	Community Retail	Hotel	Light Mfg.
No Fee	\$43	\$23	\$21	\$38	\$29
\$2.00	\$40	\$22	\$20	\$34	\$28
\$4.00	\$36	\$22	\$20	\$31	\$28
\$6.00	\$33	\$21	\$19	\$28	\$27
\$8.00	\$29	\$21	\$19	\$24	\$27
\$10.00	\$26	\$20	\$18	\$21	\$26
\$15.00	\$18	\$19	\$17	\$12	\$25
\$20.00	\$9	\$18	\$16	\$4	\$24

Note: Land residual analysis is based on 100,000 square foot building use prototypes.

Source: David Paul Rosen & Associates.

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4. Commercial Development Linkage Fee Revenue Projections

As we discussed in DRA's analysis of appropriate revenue sources, the ability of a commercial linkage fee to raise funds for a housing trust fund is based on the applicability of linkage fee, the amount of the fee, and the level of commercial development.

Table 10 provides projections of linkage fee revenues at alternative fee levels based on the current pipeline of major development projects in Long Beach (from the City of Long Beach Major Projects list, March, 2003). The projections are based on fees ranging from \$2.00 to \$10.00 per square foot. Fees ranging from \$2.00 per square foot to \$10.00 per square foot are significantly lower than the justifiable linkage fees defined by the nexus analysis and are within the range of fees supportable in the market according to the land residual analysis.

The major projects list includes a total of 1.6 million square feet of commercial and industrial development. By comparison, building permits for commercial and industrial development in the City of Long Beach have averaged 450,000 square feet annually over the past ten years.

Commercial Linkage Fee Amount		\$4.00/sf Fee	\$6.00/sf Fee	\$8.00/sf Fee	\$10.00/sf Fee
Projects, Entitlements Granted	\$1,772,824	\$3,545,648	\$5,318,472	\$7,091,296	\$8,864,120
Projected Projects	\$1,436,042	\$2,872,084	\$4,308,126	\$5,744,168	\$7,180,210
Total, All Projects	\$3,208,866	\$6,417,732	\$9,626,598	<u>ب</u> \$12,835,464	\$16,044,330

Table 10Commercial Linkage Fee Projections AssumingFees Ranging from \$2.00 to \$10.00 per Square FootBased on Major Projects List, March 2003 ⁽¹⁾

(1) Based on development pipeline as described in the City of Long Beach Major Projects list, March 2003.

CITY OF LONG BEACH COMMERCIAL DEVELOPMENT LINKAGE FEE ANALYSIS

Prepared for:

Ms. Elizabeth B. Stochl Manager City of Long Beach Department of Community Development Housing Services Bureau 110 Pine Avenue Suite 1200 Long Beach, CA 90802

Prepared by:

David Paul Rosen & Associates

1330 Broadway, Suite 937 Oakland, CA 94612-2509 510.451.2552 draoakland@sbcglobal.net 3941 Hendrix Street Irvine, CA 92614-6637 949.559.5650 nlakebrown@cox.net

June 13, 2003

Table of Contents

City of Long Beach Commercial Development Linkage Fee Analysis

١.	Introduction and Executive Summary1					
	A. B. C. D.	Introduction				
II.	Demo	graphic and Economic Overview8				
111.	Statew	vide Survey of Commercial Development Linkage Fees				
IV.	Nexus	Analysis22				
	А. В. С.	Summary22Methodology and Assumptions25Findings38				
V.	Nexus	Fee Amount43				
	А. В.	Affordability Gap Analysis				
VI.	Nexus	Fee Revenue Projections49				
VII.	Econo	mic Impact Analysis51				
	А. В. С.	Comparison of Development Impact Fees in Selected Cities				

Appendices

Appendix A: Active Major Development Projects6	56
Appendix B: Survey of Special Development Impact Fees Charged by Area Cities and Counties, by Land Use7	71

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Commercial Development Linkage Fee Analysis

1

PAGE

List of Tables City of Long Beach Commercial Development Linkage Fee Analysis

TITLE
Population, Household and Employment Trends and Projections, City of Long Beach, 1990 to 20259
Projected Population, Los Angeles County, by Southern California Association of Governments Subarea, 2010 to 202510
Projected Households, Los Angeles County, by Southern California Association of Governments Subarea, 2010 to 202511
Projected Employment, Los Angeles County, by Southern California Association of Governments Subarea, 2010 to 202512
Survey of Cities in California with Commercial Linkage Fee Ordinances, February 2003
Estimated Income-Qualifying Employee Households per 100,000 Square Feet of Building Area by Land Use Type24
Square Feet per Employee by Land Use, Natelson Employee Density Study, October 31, 200127
Wages by Occupational Grouping, Los Angeles-Long Beach MSA, December, 2002
Estimated Percent Distribution of Wages by Occupation and Income Level, Los Angeles-Long Beach MSA, 2003
Projected Occupational Distribution of Additional Employment by Land Use Type, City of Long Beach, 2003
Estimated Qualifying Very Low Income Households by Land Use Type, City of Long Beach, 200340
Estimated Qualifying Low Income Households by Land Use Type, City of Long Beach, 200341
Estimated Qualifying Moderate Households by Land Use Type, City of Long Beach, 200342

List of Tables (continued) City of Long Beach Commercial Development Linkage Fee Analysis

<u>TABLE</u>	TITLE PAGE
14	Total Per Unit Development Costs, Supportable Mortgage, and Affordability Gap, City of Long Beach Housing Prototypes46
15	Justifiable Housing Linkage Fee by Land Use, City of Long Beach, 200348
16	Commercial Development Impact Fee Revenue Projections from the Current Development Pipeline, City of Long Beach, 200350
17	Estimated Total Development Fees per Square Foot, 50,000 Square Foot Land Use Prototypes, Long Beach and Selected Southern California Cities and Counties
18	Land Residual Analysis Assumptions, City of Long Beach Commercial Development Impact Fee, Economic Impact Analysis
19	Land Residual Analysis Calculations, City of Long Beach Commercial Development Impact Fee, Economic Impact Analysis
20	Historical Capitalization Rate Data, Long Beach
21	Land Residual Analysis, 100,000 Square Foot Building Prototypes, City of Long Beach Commercial Development Impact Fee, Economic Impact Analysis
22	Vacant Commercial and Industrial Land Sales, City of Long Beach, January 1, 2002 - February 15, 200360
23	Vacant Commercial and Planned Development Zoned Land, Appraisal Market Comparables and Value Estimates, City of Long Beach61
24	Development Cost And Rent Analysis, City of Long Beach Commercial Development Impact Fee, Economic Impact Analysis64
25	Rate of Return Analysis, City of Long Beach Commercial Development Impact Fee, Economic Impact Analysis65

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I. INTRODUCTION AND EXECUTIVE SUMMARY

A. Introduction

The City of Long Beach retained David Paul Rosen & Associates (DRA) to prepare a nexus study examining the legality and basis for establishing a rational nexus between non-residential development and the need for affordable housing in the City of Long Beach. The City is experiencing a severe housing crisis, particularly for low and moderate income households. This crisis is evidenced by record low vacancy rates and escalation of housing costs at rates well above inflation and the increase in household income. To the extent that new non-residential development increases demand for housing and exacerbates this housing crisis, the City has a strong public interest in causing new housing to be developed to meet this additional demand.

In addition to market rate housing, future employment growth will generate demand for housing affordable to lower and moderate income workers. Other cities in California, such as San Diego, Sacramento and San Francisco, have established commercial development linkage fees, also known as nexus fees, to generate revenues for affordable housing development. Through payment of these fees, non-residential developers mitigate at least a portion of the impact of their developments on the housing market. The study analyzes the supportable fee in Long Beach based on the nexus between non-residential development and affordable housing.

The remaining two sections of this Chapter describe the nexus concept, the study methodology, and key findings of the analysis.

Chapter II provides an overview of demographic and economic trends and conditions in the six-county Southern California Association of Governments (SCAG) area setting the context for the local nexus between non-residential development and need for affordable housing in Long Beach.

Chapter III summarizes a survey of nexus fees on commercial/industrial development in the state.

Chapter IV describes the methodology, assumptions and findings of the nexus analysis. The nexus analysis estimates the number of low and moderate income households associated with development of office, warehouse/distribution, retail, and hotel development in Long Beach. It is based on the demographic and economic characteristics of employees expected to work in those developments.

Chapter V estimates the maximum supportable nexus fee on commercial/industrial development in Long Beach. The fee estimate is based on the results of the nexus analysis from Chapter IV and an affordability gap analysis of the difference between housing development costs in Long Beach and the amount low and moderate income residents can afford to pay for housing.

Chapter VI summarizes an evaluation of the potential economic impacts of a commercial/industrial nexus fee in Long Beach on future commercial/industrial

development in Long Beach. The analysis evaluates the potential impact of alternative fee levels on rents and rates of return on investor equity for office, warehouse/distribution, retail and hotel uses. The analysis also reviews development impact fees on commercial/industrial development in selected Southern California communities, in comparison with Long Beach.

B. The Nexus Requirement

In order to establish a nexus fee on commercial/industrial development to increase the production of affordable housing, the City of Long Beach must demonstrate that there is a reasonable relationship between non-residential construction and the need for housing affordable to low and moderate income groups.

In essence, the legal requirement is that a local government charging a fee make some affirmative showing that: (1) those who must pay the fee are contributing to the problem which the fee will address; and (2) the amount of the fee is justified by the magnitude of the fee-payer's contribution to the problem.

Fees on development in California are subject to two overlapping sets of legal requirements, constitutional requirements of nexus and "rough proportionality" under the U. S. Supreme Court cases of <u>Nollan v. California Coastal Commission</u> (1987) 483 U. S. 825 and <u>Dolan v. City of Tigard</u> (1994) 512 U. S. 374, and California's statutory "reasonable relationship" requirements under California Government Code sections 66000-66010. Although legally distinct, these two standards are substantively similar and in practice a development fee which satisfies one will almost certainly satisfy both. The California Supreme Court in <u>Ehrlich v. City of Culver City</u> (1996) 12 Cal. 4th 854, 867 concluded that the two standards "for all practical purposes, have merged."

The Supreme Court's decision on the Nollan v. California Coastal Commission imposed a requirement that a "rational nexus" be demonstrated between the impact associated with an action and the remedy being required or, in the case of a fee, the use of the funds being extracted from the developer.

To implement the Nollan decision in California, the State Legislature passed A.B. 1600, which requires local jurisdictions to establish a reasonable relationship between a development project or class of development project, and the public improvement for which the developer fee is charged, and to segregate and account for the money separately from general fund monies.

There is currently little dispute that commercial development, by increasing employment, also increases the demand for housing for the added employees, and that market housing development, with no public assistance, will not provide enough additional housing for the additional lower-earning employees.

C. Nexus Methodology

The numerical nexus analysis in this report identifies the number of households of low and moderate income levels associated with the employees that work in a building of a given size and land use type in Long Beach, and calculates the development impact fee required to make housing affordable to those households.

This analysis determines the number of employee households in each of the following three income categories:

Very low income: Low income: Moderate income: Moderate income: those earning less than 50% of area median income; those earning between 50% and 80% of area median income; those earning between 80% and 120% of area median income.

We examined the development of 100,000 square foot building modules of four building types. These building types were selected to represent a majority of the development pipeline in Long Beach.

Office; "Big Box" Retail; Community Retail; Light Manufacturing; and Hotel.

The nexus analysis employs a tested nexus and gap methodology that has proven acceptable to the courts. The economic analysis uses a conservative approach to understate the legally supportable fee amount. Therefore, the housing impacts are likely even greater than indicated in the analysis. Using conservative assumptions, justified fee amounts are still above those likely to be considered reasonable and sustainable in the market.

The nexus economic analysis methodology employs the following seven steps. A detailed discussion of the assumptions used in the nexus analysis is contained in Chapter IV.

- 1. Estimate total new employees;
- 2. Estimate new employees living in the city of Long Beach;
- 3. Adjust for potential future increase in labor force participation;
- 4. Estimate the number of new households represented by the number of new employees;
- 5. Distribute households by occupational groupings for each land use;
- 6. Estimate employee households meeting very low, low, and moderate income limits, adjusted for household size; and

7. Adjust for multiple earner households.

The results of these seven steps is the estimated number of households by land use living in Long Beach and qualifying as very low, low or moderate income. DRA prepared a housing affordability gap analysis to calculate the development impact fee required to make housing affordable to these new Long Beach households. The affordability gap analysis calculates the capital subsidy required to develop housing affordable to families at specified income levels.

The affordability gap was estimated for three prototypical housing developments in Long Beach: one renter-occupied and two owner-occupied. For rental housing, the gap analysis calculates the difference between total development costs and the conventional mortgage supportable by net operating income from affordable rents. For owners, the gap is the difference between development costs and the supportable mortgage plus the buyer's downpayment.

The results of the gap analysis were used to determine the fee amount by land use that would be required to develop housing affordable to the very low, low and moderate income households who will need to find housing in Long Beach in connection with new non-residential development in the City.

D. Summary of Findings

1. Justifiable Nexus Fee

The economic analysis estimated the following supportable fees under consistently conservative assumptions:

Household	Supportable Nexus Fee Per Building Square Foot							
Income Category	Office	Light Manuf.	"Big Box" Retail	Commun. Retail	Hotel			
Very Low	\$11.84	\$8.88	\$7.40	\$13.32	\$7.40			
Low	\$6.40	\$5.12	\$6.40	\$12.80	\$2.56			
Moderate	\$5.40	\$1.20	\$1.20	\$3.00	\$0.60			
Total	\$23.64	\$15.20	\$15.00	\$29.12	\$10.56			

2. **Revenue Projections**

DRA projected linkage fee revenues at alternative fee levels based on the current pipeline of major development projects in Long Beach. These projections are based on illustrative fee levels ranging from \$2.00 per square foot to \$10.00 per square foot.

The projections show potential revenues from major projects in the major stages of the planning approval process in Long Beach: preliminary and entitlements granted. We have excluded projects that are already under construction.

Combined total fees from all major projects on the most recent major projects list that are not under construction equal \$3 million to \$16 million at fees of \$2.00 per square foot to \$10.00 per square foot, respectively. Clearly, a housing linkage fee is potentially a significant source of funds to help mitigate demand for affordable housing associated with job growth, even at fee levels substantially below those justified by the economic analysis.

3. Economic Impact of Nexus Fees

A number of communities in California have adopted linkage fees. Our interviews with developers indicated that fees in at least nine jurisdictions, some of which have been in place for more than fifteen years and through one or two full business cycles, have had no discernible impact on development. One reason may be that fee levels are relatively small as a percentage of development costs and rents, and therefore do not affect developers' decisions to build or not build, which are based on the strength of market demand.

Nexus fees should be assessed in combination with all other fees in the City of Long Beach and compared with total development fees in other locations in the market area, along with other competitive factors. DRA also evaluated the potential impact on developers, investors and landowners of a potential nexus fee.

a. Regional Survey of Development Impact Fees

DRA assessed the potential economic impact of a linkage fee in Long Beach at illustrative fee levels on each of the land uses analyzed. A new nexus fee on non-residential development would result in an increase in rents, a decrease in the rate of return to equity investors, or a decrease in land value. Presumably property owners are already charging the maximum rents they can in the marketplace, so rents are unlikely to increase because of an additional development fee. Investor return may decline for committed projects but investors are likely to invest elsewhere rather than accept significant reductions in return. The most immediate effect is likely to be a decrease in the land value. This decrease can be analyzed through a land residual analysis methodology. DRA also examines the increase in rent and reduction in investor return required to accommodate the fee.

b. Land Residual Analyses

A land residual analysis methodology calculates the value attributed to land from proposed development on that site. It is commonly used by real estate developers and investors to evaluate development financial feasibility and select among alternative uses for a piece of property.

The land residual methodology calculates the value of a development based on its income potential and subtracts the costs of development and developer profit to yield the underlying value of the land. When evaluating alternative land uses, the alternative that generates the highest value to a site is considered its highest and best use. An alternative that generates a value to the land that is negative is not financially feasible.

DRA calculated net operating income from each land use prototype based on estimated market rents. Net operating income is capitalized at an assumed capitalization rate of 8.0 percent (based on recent property sales comps) to determine the value of the developed property. The capitalization rate is the ratio of net operating income to project fair market value, or sales price, exhibited in the market and reflects the rate of return required by investors in rental property. Total development costs are then subtracted from the capitalized value to yield the estimated residual land value.

DRA applied a land residual analysis to each of the five land use prototypes using assumed market rents and operating costs. The residual land value was first calculated without a nexus fee to determine the basic financial feasibility of the prototype given the economic assumptions employed. The land residual analysis was then calculated assuming different levels of nexus fees to evaluate the effect of these requirements on land values. The resulting residual land values at various assumed levels of a nexus fee are summarized below

Assumed	Residual Land Value Per SF Site Area						
Nexus Fee Per Bldg. SF	Office	Light Manuf.	"Big Box" Retail	Commun. Retail	Hotel		
No Fee	\$43	\$23	\$21	\$38	\$29		
\$2.00	\$40	\$22	\$20	\$34	\$28		
\$4.00	\$36	\$22	\$20	\$31	\$28		
\$6.00	\$33	\$21	\$19	\$28	\$27		
\$8.00	\$29	\$21	\$19	\$24	\$27		
\$10.00	\$26	\$20	\$18	\$21	\$26		
\$15.00	\$18	\$19	\$17	\$12	\$25		
\$20.00	\$9	\$18	\$16	\$4	\$24		

c. Rent and Return Analysis

DRA calculated the increase in rents, or decrease in the rate of return on investor equity, required to finance the fee at current market terms for both debt and equity financing. By applying the average financing cost to the fee at illustrative fee levels, we determine the rent increase necessary to keep returns to developers and investors constant. Alternatively, we calculate the decrease in the rate of return on equity to investors assuming rents remain constant. The rate of return on equity at various levels of an assumed nexus fee is summarized below.

Assumed	Rate of Return on Equity							
Nexus Fee Per Bldg. SF	Office	Light Manuf.	"Big Box" Retail	Commun. Retail	Hotel			
No Fee	8.50%	9.00%	9.00%	9.00%	9.00%			
\$2.00	8.33%	8.65%	8.73%	8.79%	8.66%			
\$4.00	8.16%	8.33%	8.47%	8.59%	8.34%			
\$6.00	8.00%	8.04%	8.23%	8.41%	8.05%			
\$8.00	7.84%	7.76%	8.00%	8.22%	7.78%			
\$10.00	7.70%	7.50%	7.78%	8.05%	7.52%			
\$15.00	7.35%	6.92%	7.29%	7.65%	6.95%			
\$20.00	7.03%	6.43%	6.86%	7.28%	6.46%			

II. DEMOGRAPHIC AND ECONOMIC OVERVIEW

Increases in employment in the Los Angeles area will draw new people to live in the region and will generate demand for housing at all income levels. The lack of housing, particularly affordable housing, is a constraint on area growth. It creates a policy problem the City of Long Beach is trying to address with a nexus fee. In the absence of efforts to increase the supply of affordable housing, higher paid workers will move into the area and will displace lower income workers.

This section summarizes recent demographic trends and projections reported by the Southern California Association of Governments (SCAG) and describes the relationship between employment and housing, setting the context for the linkage analysis.

SCAG is required by state mandate to prepare regional economic and demographic forecasts for the six-county Southern California area every two years. The most recent edition, "State of the Region 2000", summarizes recent demographic and economic trends, and provides current projections of the population, labor force, households, income and jobs for the period 2010 to 2025.

The Southern California economy throughout 1999 continued the rebound that began in 1993 following the economic recession of the early 1990's. The SCAG region added 171,000 new jobs in 1999, an increase of 2.6 percent over the previous year. Los Angeles County added more than 80,000 new jobs in 1999, a 2.0 percent increase over 1998. Nevertheless, at the end of the 1990's, Los Angeles County still had not replaced all of the jobs it lost during the recession, but ended the decade with 112,000 (2.7 percent) fewer rate than for the other counties in the region. However, since the county accounts for over 60 percent of the region's jobs, even a small percentage increase represents a significant number of new jobs for Southern California.

In 1999, unemployment rates in most counties in Southern California fell either to record lows or, at least, to the lowest levels in decades. The unemployment rate for Los Angeles County was 6.0 percent for 1999 and 5.7 percent at year-end, the lowest since July, 1990.

Although there is optimism about the improved economy, there are also concerns. A 1999 report by the non-profit California Budget Project notes that a family of four with two working parents needs at least \$44,700 to make ends meet in Los Angeles County. The hourly wage needed to support the basic family budget is two to three times the state's minimum wage of \$5.75 in 1999.

Further, SCAG analysis indicates that job growth has been accompanied by a decline in median annual earnings. This has been accompanied by growth in the percentage of workers in the lowest earning categories, suggesting that there are relatively fewer opportunities for upward mobility. The SCAG report concludes that there is a growing earnings disparity in Southern California. The report recommends addressing the low level of education of many workers, through on-the-job training and education.

Table 1 summarizes trends and projections in population, households, and employment in the City of Long Beach from 1990 through 2025. The City's total population increased 7.5 percent over the past decade, from 1990 through 2000. The number of households increased more slowly, at 2.6 percent, accompanied by an increase in average household size. The City experienced a 3.9 percent reduction in employment over this time period, following the pattern in Los Angeles County as a whole. Based on SCAG projections, the City is expected to experience a 16.5 percent increase in population between 2000 and 2025. The number of households is projected to increase 22.0 percent over the same time period. Employment is projected to increase 19.2 percent.

Table 1
POPULATION, HOUSEHOLD AND EMPLOYMENT TRENDS AND PROJECTIONS
CITY OF LONG BEACH
1990 to 2025

	1990	2000	2010	2025	% Change 90-00	% Change 00-25
Total Population	429,433	461,522	490,400	537,700	7.5%	16.5%
Household Population	415,216	451,341	N/A	N/A	8.7%	N/A
Households	158,975	163,088	171,400	199,000	2.6%	22.0%
Persons/HH	2.61	2.77	N/A	N/A	6.1%	N/A
Employment	197,118	189,487	207,500	225,900	(3.9%)	19.2%

Source: 1990 and 2000 U.S. Census; Southern California Association of Governments; David Paul Rosen & Associates.

Table 2 presents projected population for Los Angeles County by SCAG subarea for the 2010 through 2025 period. Population in the County is expected to increase 14.4 percent over the 15-year period. Population in the City of Long Beach is expected to increase 9.6 percent over the same time period.

Table 3 shows projected household growth over the 2010 through 2025 period. The number of households is projected to increase 19.6 percent in the County and 16.1 percent in Long Beach.

Table 4 shows projected employment growth over the 2010 through 2025 period. Employment is projected to increase 8.2 percent in the County and 8.9 percent in Long Beach.

Table 2PROJECTED POPULATIONLOS ANGELES COUNTYBY SOUTHERN CALIFORNIA ASSOCIATION OF GOVERNMENTS SUBAREA2010 to 2025

SCAG Subarea	2010	2015	2025	Change 2010-2015	Change 2015-2025
North L.A. Co. ¹	786,400	912 400	1 259 900	126,000	347 500
		5.2,100	1,235,500	120,000	
L.A. City ²	4,210,700	4,387,800	4,876,500	177,100	488,700
Arroyo Verdugo ³	438,700	449,900	480,900	11,200	31,000
San Gabriel Valley⁴	1,951,800	2,002,600	2,141,200	50,800	138,600
Westside Cities ⁵	249,100	250,600	254,700	1,500	4,100
South Bay Cities	910,300	913,900	924,300	3,600	10,400
City of Long Beach ⁷	490,400	503,000	537,700	12,600	34.700
Balance of Gateway Cities [®]	1,658,400	1,687,400	1.766.300	29.000	78,900
Las Virgenes/ Malibuº	88,800	91,200	98,100	2,400	6.900
TOTAL L.A. COUNTY	10,784,600	11,198,800	12,339,600	414,200	1,140,800

¹Includes Lancaster, Palmdale, Santa Clarita and unincorporated county area.

²Includes City of Los Angeles and unincorporated county area.

³Includes Burbank, Glendale, La Canada Flintridge and unincorporated county area.

⁴Includes Alhambra, Arcadia, Azusa, Baldwin Park, Bradbury, Claremont, Covina, Diamond Bar, Duarte, El Monte, Glendora, Industry, Irwindale, La Puente, La Verne, Monrovia, Montebello, Monterey Park, Pasadena, Pomona, Rosemead, San Dimas, San Gabriel, San Marino, Sierra Madre, South El Monte, South Pasadena, Temple City, Walnut, West Covina and unincorporated county area.

⁵Includes Beverly Hills, Culver City, Santa Monica, West Hollywood and unincorporated county area.

⁶Includes Carson, El Segundo, Gardena, Hawthorne, Hermosa Beach, Inglewood, Lawndale, Lomita, Manhattan Beach, Palos Verdes Estates, Rancho Palos Verdes, Redondo Beach, Rolling Hills, Rolling Hills Estates, Torrance and unincorporated county area.

⁷The City of Long Beach is located in the Gateway Cities subarea as defined by SCAG.

⁸Includes Artesia, Avalon, Bell, Bellflower, Bell Gardens, Cerritos, Commerce, Compton, Cudahy, Downey, Hawaiian Gardens, Huntington Gardens, Huntington Park, La Habra Heights, Lakewood, La Mirada, Lynwood, Maywood, Norwalk, Paramount, Pico Rivera, Sante Fe Springs, Signal Hill, South Gate, Vernon, Whittier and unincorporated county area.

⁹Includes Agoura Hills, Calabasas, Hidden Hills, Malibu, Westlake Village and unincorporated county area.

SOURCE: Southern California Association of Governments.

Table 3 PROJECTED HOUSEHOLDS LOS ANGELES COUNTY BY SOUTHERN CALIFORNIA ASSOCIATION OF GOVERNMENTS SUBAREA 2010 to 2025

SCAG Subarea	2010	2015	2025	Change 2010-2015	Change 2015-2025
North L.A. Co. ¹	264,900	319,800	442,800	54,900	123,000
L.A. City ²	1,417,700	1,513,000	1,769,500	95,300	256,500
Arroyo Verdugo ³	158,100	163,800	180,100	5,700	16,300
San Gabriel Valley⁴	550,900	568,000	606,200	17,100	38,200
Westside Cities ^s	117,400	118,700	121,000	1,300	2,300
South Bay Cities	305,500	310,300	321,200	4,800	10,900
City of Long Beach ⁷	171,400	180,400	199,000	9,000	18,600
Balance of Gateway Cities [®]	426,500	431,400	442,200	4,900	10,800
Las Virgenes/ Malibu [®]	31,600	32,800	36,900	1,200	4,100
TOTAL L.A. COUNTY	3,444,000	3,638,200	4,118,900	194,200	480,700

¹Includes Lancaster, Palmdale, Santa Clarita and unincorporated county area.

²Includes City of Los Angeles and unincorporated county area.

³Includes Burbank, Glendale, La Canada Flintridge and unincorporated county area.

⁴Includes Alhambra, Arcadia, Azusa, Baldwin Park, Bradbury, Claremont, Covina, Diamond Bar, Duarte, El Monte, Glendora, Industry, Irwindale, La Puente, La Verne, Monrovia, Montebello, Monterey Park, Pasadena, Pomona, Rosemead, San Dimas, San Gabriel, San Marino, Sierra Madre, South El Monte, South Pasadena, Temple City, Walnut, West Covina and unincorporated county area.

⁵Includes Beverly Hills, Culver City, Santa Monica, West Hollywood and unincorporated county area.

⁶Includes Carson, El Segundo, Gardena, Hawthorne, Hermosa Beach, Inglewood, Lawndale, Lomita, Manhattan Beach, Palos Verdes Estates, Rancho Palos Verdes, Redondo Beach, Rolling Hills, Rolling Hills Estates, Torrance and unincorporated county area.

⁷The City of Long Beach is located in the Gateway Cities subarea as defined by SCAG.

⁸Includes Artesia, Avalon, Bell, Bellflower, Bell Gardens, Cerritos, Commerce, Compton, Cudahy, Downey, Hawaiian Gardens, Huntington Gardens, Huntington Park, La Habra Heights, Lakewood, La Mirada, Lynwood, Maywood, Norwalk, Paramount, Pico Rivera, Sante Fe Springs, Signal Hill, South Gate, Vernon, Whittier and unincorporated county area.

⁹Includes Agoura Hills, Calabasas, Hidden Hills, Malibu, Westlake Village and unincorporated county area.

SOURCE: Southern California Association of Governments.

Table 4 PROJECTED EMPLOYMENT LOS ANGELES COUNTY BY SOUTHERN CALIFORNIA ASSOCIATION OF GOVERNMENTS SUBAREA 2010 to 2025

SCAG Subarea	2010	2015	2025	Change 2010-2015	Change 2015-2025
North L.A. Co. ¹	250,100	268,800	304,300	18,700	35,500
L.A. City ²	1,931,000	1,975,800	2.060.100	44,800	84,300
				,	0.,500
Arroyo Verdugo ³	241,800	250,900	268,200	9,100	17,300
San Gabriel					
Valley⁴	787,400	807,200	845,400	19 <i>,</i> 800	38,200
Westside Cities ⁵	254,000	259,300	269,300	5,300	10,000
South Bay Cities ⁶	475,700	487,800	510,600	12,100	22,800
City of Long					
Beach ⁷	207,500	213,900	225,900	6,400	12,000
Balance of					
Gateway Cities [®]	700,200	721,700	762,200	21,500	40,500
Las Virgenes/					/
Malibu ⁹	41,800	42,900	45,200	1,100	2,300
TOTAL L.A. COUNTY	4,889,500	5,028,300	5,291,200	138,800	262,900

¹Includes Lancaster, Palmdale, Santa Clarita and unincorporated county area.

²Includes City of Los Angeles and unincorporated county area.

³Includes Burbank, Glendale, La Canada Flintridge and unincorporated county area.

⁴Includes Alhambra, Arcadia, Azusa, Baldwin Park, Bradbury, Claremont, Covina, Diamond Bar, Duarte, El Monte, Glendora, Industry, Irwindale, La Puente, La Verne, Monrovia, Montebello, Monterey Park, Pasadena, Pomona, Rosemead, San Dimas, San Gabriel, San Marino, Sierra Madre, South El Monte, South Pasadena, Temple City, Walnut, West Covina and unincorporated county area.

⁵Includes Beverly Hills, Culver City, Santa Monica, West Hollywood and unincorporated county area.

⁶Includes Carson, El Segundo, Gardena, Hawthorne, Hermosa Beach, Inglewood, Lawndale, Lomita, Manhattan Beach, Palos Verdes Estates, Rancho Palos Verdes, Redondo Beach, Rolling Hills, Rolling Hills Estates, Torrance and unincorporated county area.

⁷The City of Long Beach is located in the Gateway Cities subarea as defined by SCAG.

⁸Includes Artesia, Avalon, Bell, Bellflower, Bell Gardens, Cerritos, Commerce, Compton, Cudahy, Downey, Hawaiian Gardens, Huntington Gardens, Huntington Park, La Habra Heights, Lakewood, La Mirada, Lynwood, Maywood, Norwalk, Paramount, Pico Rivera, Sante Fe Springs, Signal Hill, South Gate, Vernon, Whittier and unincorporated county area.

⁹Includes Agoura Hills, Calabasas, Hidden Hills, Malibu, Westlake Village and unincorporated county area.

SOURCE: Southern California Association of Governments.

III. STATEWIDE SURVEY OF COMMERCIAL DEVELOPMENT LINKAGE FEES

An increasing number of communities in California have adopted established commercial development linkage fees to generate revenues for affordable housing development. Through payment of these fees, non-residential developers mitigate at least a portion of the impact of their developments on the housing market.

David Paul Rosen & Associates (DRA) surveyed cities in California with commercial linkage fee ordinances. DRA surveyed the following cities' ordinances:

- San Diego
- Santa Monica
- San Francisco
- Oakland
- Sacramento
- Berkeley
- Menlo Park (San Mateo County)
- Alameda
- Corte Madera (Marin County)
- Sunnyvale
- Palo Alto
- Pleasanton
- Mountain View (San Mateo County)
- Cupertino (Santa Clara County)

The survey indicates that some of the largest cities in the state – San Diego, San Francisco, Oakland, and Sacramento – have adopted commercial linkage fees. Many cities adopted ordinances several years ago. San Francisco adopted its ordinance in 1985, although San Francisco established commercial linkage fees as a policy in 1981. San Diego adopted its ordinance in 1990 and revised the ordinance in 1996. Sunnyvale adopted its ordinance in 1984; Sacramento (City and County) established its ordinance in 1989, although collection of fees did not begin until 1991.

Table 5 summarizes the survey of commercial development linkage fees. The cities that have collected the most funds from commercial linkage fees are San Diego, San Francisco, and Sacramento. Since 1990, over \$33 million has been raised for affordable housing in San Diego. In San Francisco, the ordinance has raised over \$40 million since inception in 1980 (according to a survey conducted by the Boston Redevelopment Authority). Sacramento City and County raised over \$26 million since their commercial linkage ordinance was passed in 1989.

February 2003

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СІТҮ	YEAR EST.	DEVELOPMENT TYPE/FEE	THRESHOLDS/ EXEMPTIONS/ CAPS	TIMING OF PAYMENT	REVENUES	TARGETED USE OF FUNDS
San Diego	1990, rev. in 1996	 Office space, \$1.06/sf Hotel, \$0.64/sf Res. and dev., \$0.80/sf Retail, \$0.64/sf Manufacturing, \$0.64/sf Warehouse, \$0.27/sf 	Exempts residential hotels; other variances granted based on special circumstances, project feasibility, financial hardship, and alternative means of compliance	 Paid at issuance of building permit 	Since inception, over \$33 million	San Diego Housing Trust Fund, targeted to assist persons at 80 percent of AMI or below
Santa Monica	1986	 Applies only to general office development. Approximately \$3.84/sf for the first 15,000 sf of net rentable space, appròximately \$8.53/sf for the remainder, adjusted for CPI annually. Developer can construct affordable housing units and park space. However, each housing unit is valued at approximately \$51,300, adjusted for CPI. 	15,000 sf exemption for new construction, 10,000 sf exemption for additions	 25% at C.O. 25% at the three anniversaries thereafter. Agency requires irrevocable letters of credit to back the payment obligations. 	Estimated at over \$5 million (by City of Santa Monica staff)	45% toward low and moderate income housing, 45% toward Parks Mitigation Fund, remaining 10% to go toward either or both uses.

February 2003

СІТҮ	YEAR EST.	DEVELOPMENT TYPE/FEE	THRESHOLDS/ EXEMPTIONS/ CAPS	TIMING OF PAYMENT	REVENUES	TARGETED USE OF FUNDS
San Francisco	1981, est. as policy; 1985, as ordinance	 Office space, \$14.96/sf Entertainment, \$13.95/sf Hotel, \$11.21/sf Research and development, 9.97/sf Retail, \$13.95/sf 	25,000 sf exemption	 paid at issuance of building permit 	Over \$40 million (estimate from study by Boston Redevelopment Authority).	All funds go to the Affordable Housing Fund
Oakland	2002; goes into effect in 2006	 Office space, \$4.00/sf Warehouse/distribution, \$4.00/sf 	25,000 sf exemption	 25% paid at issuance of building permit 50% paid at issuance of temporary certificate of occupancy 25% paid 18 mos. after TCO issuance 	Not applicable	All funds go to the Affordable Housing Trust Fund

February 2003

CITY	YEAR EST.	DEVELOPMENT TYPE/FEE	THRESHOLDS/ EXEMPTIONS/ CAPS	TIMING OF PAYMENT	REVENUES	TARGETED USE OF FUNDS
Sacramento	1989; collections started in 1991	 Office space, \$0.99/sf Hotel, \$0.94/sf Res. and dev., \$0.84/sf Commercial, \$0.79/sf Manufacturing, \$0.62/sf Warehouse/Office, \$0.36/sf Warehouse, \$0.27/sf 	Developers can apply for variances if there are special circumstances, the project is no longer feasible, or a specific and substantial financial hardship would occur without the variance.	• paid at issuance of building permit	Over \$11 million in the City; Over \$15 million in the County	City – targeted to persons at 50% and 80% of AMI County – targeted to persons at 50% of AMI
Berkeley	1988	 Office space, \$5.00/sf Retail, \$5.00/sf Industrial, \$2.50/sf Fees can be negotiated if economic analysis demonstrates that fees render project infeasible. 	Office, retail, industrial, other commercial, 7,500 sf	 Three payments: Before issuance of permit Before issuance of C.O. One year after C.O. 	Since 1988, over \$2 million has been collected.	20% of these fees go toward child care operating subsidies (since 1993).

Survey of Commercial Linkage Fees – Page 3

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February 2003

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CITY	YEAR EST.	DEVELOPMENT TYPE/FEE	THRESHOLDS/ EXEMPTIONS/ CAPS	TIMING OF PAYMENT	REVENUES	TARGETED USE OF FUNDS
Menlo Park	1987 est. policy, revised in 2001	 \$6.07/sf for other commercial development \$11.15/sf for office and research and development Fee adjusted annually based on five year moving average of price increase of new homes sold in San Mateo County 	• 10,000 sf exemption; alteration must exceed 50% of replacement cost	 Prior to issuance of building permit 		Fees go into the "Below Market Rate Reserve".
Alameda	1989, rev. in 2001	 \$3.45/sf for office \$1.75/sf for retail \$0.60/sf for new manufacturing/warehouse \$885/room, hotel/motel Adjusts annually based on increases in Engineering News Record cost index 	 Any publicly- owned development 	 Prior to issuance of building permit 		Fees go toward expanding affordable housing opportunities to low- and moderate- income households.
Corte Madera	2001	 Office space, \$4.79/sf Health club/recreation, \$2.00/sf Light industrial, \$2.79/sf Research and development, \$3.20/sf Retail, \$8.38/sf Hotel, \$1.20/sf Warehouse, \$0.40/sf Commercial services, \$1.20/sf Restaurant, \$4.39/sf Training facility/school, \$2.39/sf 		 paid at issuance of building permit 	·····.	Funds go to the Affordable Housing Fund to support the development of housing for very low and low income persons.

Survey of Commercial Linkage Fees - Page 4

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February 2003

СІТҮ	YEAR EST.	DEVELOPMENT TYPE/FEE	THRESHOLDS/ EXEMPTIONS/ CAPS	TIMING OF PAYMENT	REVENUES	TARGETED USE OF FUNDS
Sunnyvale	1984	• \$7.19/sf, new industrial development	• Limited to new industrial development. Fee charged only if the development exceeds 35% floor area ratio or the ratio applicable to the specific zoning district with employee- generating space. Cafeterias, meeting rooms, warehousing and assembly are excluded from the calculation.	 Prior to issuance of building permit 		Funds go toward funding of low and moderate income housing

Survey of Commercial Linkage Fees - Page 5

February 2003

СІТҮ	YEAR EST.	DEVELOPMENT TYPE/FEE	THRESHOLDS/ EXEMPTIONS/ CAPS	TIMING OF PAYMENT	REVENUES	TARGETED USE OF FUNDS
Palo Alto	1984, revised in 2002	• Commercial uses, \$15.00/sf	Currently, no exemptions. However, City Council is considering exemptions for commercial spaces below 1,500 sf zoned for retail, restaurants, personal services, and automotive.	• 100% paid at issuance of building permit	Since inception, approximately \$7 million	Ordinance states that funds go toward housing for "low, moderate, middle" income persons. In practice, most funds go toward housing for very low income persons.
Pleasanton	2000	• Commercial uses, \$0.54/sf	Fee reduction for certain types of uses (subject to approval by the City Council) if it can be demonstrated that the use will generate substantially fewer workers.	 Paid at issuance of building permit 	Since inception of commercial linkage fee policy, approximately \$11 million in both inclusionary housing in-lieu fees and commercial linkage fees collected.	Ordinance states that funds go toward the development of housing for "very low, low, and moderate income" households.

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February 2003

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СІТҮ	YEAR EST.	DEVELOPMENT TYPE/FEE	THRESHOLDS/ EXEMPTIONS/ CAPS	TIMING OF PAYMENT	REVENUES	TARGETED USE OF FUNDS
Mountain View	2001	 Office, \$3.00/sf for 1sf to 10,000 sf, \$6.00/sf above 10,000 sf High tech/industrial, \$3.00/sf for 1sf to 10,000 sf, \$6.00/sf above 10,000 sf Hotel, \$1.00/sf for 1sf to 25,000 sf, \$2.00/sf above 25,000 sf Retail & entertainment, \$1.00/sf for 1sf to 25,000 sf, \$2.00/sf above 25,000 sf 	None – however, fees are lower for smaller developments	• Paid at issuance of building permit		Funds deposited in housing fund. Funds used to increase and improve the supply of housing affordable to very low, low and moderate income households.
Cupertino	1993	• Office/industrial, \$2.17/sf	None	 Paid at issuance of building permit 		Revenues are used for affordable housing

Other California cities with commercial linkage fees include Napa, Livermore, and Milpitas.

There is a significant range of fees charged by jurisdictions. Fees range from less than \$1.00 per square foot in San Diego to San Francisco, which charges the highest per square foot fees. The following is San Francisco's fee schedule:

- Office space, \$14.96/sf
- Entertainment, \$13.95/sf
- Hotel, \$11.21/sf
- Research and development, \$9.97/sf
- Retail, \$13.95/sf

San Diego's fee schedule is as follows:

- Office space, \$1.06/sf
- Hotel, \$0.64/sf
- Research and development, \$0.80/sf
- Manufacturing, \$0.64/sf
- Warehouse/Office, \$0.36/sf
- Warehouse, \$0.27/sf

Some cities establish a minimum square footage threshold to exempt smaller developments. For example, Berkeley exempts developments smaller than 7,500 square feet. San Francisco exempts developments smaller than 25,000 square feet. Other cities do not exempt projects based on size; however, exemptions may be based on other factors. For example, Sacramento requires developers to demonstrate special circumstances, financial hardship, or project infeasibility in order to qualify for an exemption. Mountain View charges lower fees for smaller developments.

For the most part, cities require fees to be paid prior to receipt of a building permit. Cities typically adopt this policy because it is the period when the jurisdiction has the greatest leverage over a developer. Two cities, Berkeley and Santa Monica, allow developers to pay fees over time. When the ordinance becomes effective in 2006, Oakland will also allow developers to pay fees over time, with the last payment occurring 18 months after issuance of the temporary certificate of occupancy. Santa Monica requires future payments to be secured by letters of credit because the City experienced non-payment of fees after building permits were secured by developers.

IV. NEXUS ANALYSIS

A. Summary

In order to establish a nexus fee on commercial/industrial development to increase the production of affordable housing, the City of Long Beach must demonstrate that there is a reasonable relationship between non-residential construction and the need for housing affordable to low and moderate income groups.

In essence, the legal requirement is that a local government charging a fee make some affirmative showing that: (1) those who must pay the fee are contributing to the problem which the fee will address; and (2) the amount of the fee is justified by the magnitude of the fee-payer's contribution to the problem. Our nexus analysis is designed to demonstrate the economic relationship between non-residential development and the need for affordable housing in Long Beach. We employ consistently conservative assumptions, so that our calculation of the justifiable fee understates the supportable nexus calculation for each building type.

1. Income Levels and Building/Land Use Types

This analysis determines the number of employee households in each of the following three income categories:

Very low income:	those earning less than 50% of area median income;		
Low income:	those earning between 50% and 80% of area median income;		
Moderate income:	those earning between 80% and 120% of area median income.		

We examined the development of 100,000 square foot building modules of the following six building types:

Office (Class A); "Big Box" Retail; Community Retail; Light Manufacturing; and Hotel.

The analysis was conducted for the City of Long Beach.

2. Nexus Methodology

The nexus economic analysis methodology employs the following seven steps:

- 1. Estimate total new employees;
- 2. Estimate new employees living in the city of Long Beach;
- 3. Adjust for potential future increase in labor force participation;
- 4. Estimate the number of new households represented by the number of new employees;
- 5. Distribute households by occupational groupings for each land use;
- 6. Estimate employee households meeting very low, low, and moderate income limits, adjusted for household size; and
- 7. Adjust for multiple earner households.

The results of these seven steps is the estimated number of households by land use living in Long Beach and qualifying as very low, low or moderate income. In Chapter V, the results of a housing affordability gap analysis are used to determine the fee amount by land use that would be required to develop housing affordable to the very low, low and moderate income households who will need to find housing in Long Beach in connection with new non-residential development in the City.

3. Conclusions

The first conclusion is that a clear nexus exists between the employees of the various commercial and industrial buildings and the number of lower and moderate income households associated with the buildings.

The numerical results of the analysis are that for every 100,000 square feet of building area, on average, there are a number of very low and low income employee households that will live in the City of Long Beach, as summarized in **Table 6** below. Community retail uses are associated with the highest number of qualifying households per 100,000 square feet, because of the relatively high employment density and high percentage of low wage workers associated with retail buildings. For every 100,000 square feet of office space, 21 new resident very low, low and moderate income households will be created.

Table 6 ESTIMATED INCOME-QUALIFYING EMPLOYEE HOUSEHOLDS PER 100,000 SQUARE FEET OF BUILDING AREA BY LAND USE TYPE

	Number of Households Per 100,000 SF Building					
Land Use/ Building Type	50% AMI or Below	50% to 80% AMI	80% to 120% AMI			
Office	8	5	8			
"Big Box" Retail	4	5	2			
Community Retail	9	9	5			
Light Manufacturing	5	4	2			
Hotel	4	2	1			

B. Methodology and Assumptions

The analysis presented in this report has been based on a variety of sources. The 2000 U.S. Census was frequently utilized, with comparisons to the 1990 Census. Other principal data sources include the California State Employment Development Department (EDD) and the Southern California Association of Governments. Data specific to the City of Long Beach were used wherever possible.

In a few cases where limited current data is available, estimates were based on the best available data.

This analysis requires a number of assumptions. In all cases, we consistently employ conservative assumptions that serve to understate the nexus calculation. The cumulative effect of these assumptions understates the supportable nexus calculation for each building type. We do not believe, therefore, that changing individual assumptions would fundamentally alter the conclusions of the analysis.

Each of the steps in the nexus analysis is described below, along with corresponding assumptions and data sources.

1. Estimate Total New Employees

The first step estimates the total number of direct employees who will work at or in the building type being analyzed. This step implicitly assumes that all employees are new employees to the City. If the employees in a building have relocated from other buildings, they will have vacated spaces somewhere else and somewhere else in the chain new employees will have come to the City of Long Beach to work.

The estimate of the number of employees that will be working in each 100,000 square foot building module is based on an employment density factor for each land use (i.e. number of square feet per employee). For all of the land uses except hotel, the gross building area is divided by the employment density factor to calculate employment, as illustrated below:

Gross Building	divided by	Employment	=	Employment
Area		Density		. ,

For hotels, employment generation can be related to building square feet or the number of hotel rooms.

The employment density factor is different for each land use and can vary within each land use. DRA reviewed industry standards and trends in employment density factors as reported by the Urban Land Institute. DRA also reviewed an employment density study prepared for the Southern California Association of Governments (SCAG) by The Natelson Company, Inc. in October, 2001.

The Natelson study developed employment density factors for ten major land use categories. The study first developed employee per acre factors using acreage data from the SCAG land use database and employment data from various sources including Dun & Bradstreet and the State of California Employment Development Department. The study then derived building square feet per employee factors based on a sample of assessor's parcel records. The Natelson study developed employment density factors based on both median and average employees per acre and FAR calculations. The resulting factors for both Los Angeles County and the six-county SCAG region are summarized in **Table 7** below.

According to the 1998 Urban Land Institute, "Office Development Handbook," ten years ago, the industry rule of thumb for office uses was 250 square feet of space per employee, including a proportionate share of the lobby, corridor and restroom space in office buildings. Today, less space per employee is the norm, with many new office buildings providing 200 square feet or less per employee. ¹ The Natelson study shows more space per employee for office uses, ranging from 319 to 471 square feet per employee for office uses in Los Angeles County. To be conservative, DRA selected a factor for office uses approximating the results of the Natelson study.

¹ Source: 1998 Urban Land Institute, "Office Development Handbook," Second Edition.

Table 7 SQUARE FEET PER EMPLOYEE BY LAND USE² NATELSON EMPLOYEE DENSITY STUDY October 31, 2001

Land Use Category	Los Angeles County	Six-County Region
Regional Retail	N/A	857
Other Retail/ Services	424	344
Low-Rise Office	319	288
High-Rise Office	440	311
Hotel/Motel	N/A	1,152
R&D/ Flex Space	1,796	344
Light Manufacturing	829	439
Warehouse	1,518	814
Government Offices	1,442	261

N/A = Insufficient data to develop employment density factor for that land use/geography.

Source: The Natelson Company, Inc., "Employment Density Study," prepared for the Southern California Association of Governments, October 31, 2001.

In retail development, the opposite trend is true. "Big box" warehouse club retailers represent one of the new, successful trends in retail development. These stores generally have a lower employment density than the historical rule of thumb for retail of approximately 300 to 400 square feet per employee. Retail employee densities in more traditional community retail prototypes are likely to remain higher.

Although light manufacturing facilities vary in terms of employment generation, we have assumed an employment density factor of 800 square feet per employee, consistent with the Natelson study figure for light manufacturing uses in Los Angeles County.

For hotels, the number of employees per room typically varies from 0.5 to 0.8, with higher-end hotels having the higher employment density. Using a mid-point of 0.65 employees per room and assuming an average of 750 square feet per room, including common and lobby spaces, this translates into 1,149 square feet per employee. This is virtually identical to the figure for hotel uses in the Natelson study..

² Factors derived from average employees per acre and average FAR.

Based on this review, the employment density factors used in this analysis are as follows:

Office	400 sq. ft./employee
"Big Box" Retail	800 sq. ft./employee
Community Retail	400 sq. ft./employee
Light Manufacturing	800 sq. ft./employee
Hotel	0.65 employees per room ³

Urban Land Institute; The Natelson Company, "Employment Density Study," Sources: October 31, 2001.

Estimate Employees Living in the City of Long Beach 2.

This step estimates the number of new residents in Long Beach that would be associated with new employment growth in the City. The extent to which employees in new nonresidential developments will be filled by new Long Beach residents, or by employees who would reside in Long Beach if affordable housing were available, is a critical factor in the nexus economic analysis. With this assumption, as with the other variables in the analysis, we have chosen to be conservative.

The 1990 Census indicates that 44.5 percent of the people who worked in the City also resided in the City. 2000 Census data indicate that this percentage declined to 33.4 percent by 1999. This is likely due to the economic recession of the early 1990's, in general, and the major loss of jobs at Boeing manufacturing plants in Long Beach, in particular.

For the purposes of this analysis, we have assumed that 33 percent of new Long Beach workers will reside in the City of Long Beach. This is a conservative assumption given that lower income workers (the focus of a potential fee) tend to live closer to work. Using this factor, the number of employees residing in Long Beach is calculated for each land use as follows:

Employment	x Pe W in	Percentage of Workers Residing	=	Employees Regiding in the Cit
		in the City of Long Beach		of Long Beach

Source: 1990 and 2000 U.S. Census, STF 3A.

³ Projections assume 750 square feet per room; equivalent to 1,149 square feet per employee.

3. Adjust for Potential Increase in Labor Force Participation

While most new workers in non-residential development in Long Beach will come from outside of the City, DRA evaluated the extent to which new jobs are likely to be filled by existing residents in the City. This step reduces the number of new employees expected to need new housing in Long Beach, to take into account employees who were previously living in the City but were not previously working.

During the 1970's and 1980's, many people, particularly women, entered the labor force for the first time, or the first time after a lengthy absence. Labor participation rates increased during this period. 1990 Census data indicate that 67.3 percent of persons 16 years and over were in the labor force. By 2000, this percentage declined to 61.7 percent. Again, this decline is likely due to the economic recession and loss of jobs at Boeing plants during the 1990's.

In addition to new workers entering the labor force, another potential source of new employees is the pool of unemployed workers in the City. Unemployment in Long Beach area was at historically low rates in the 1990's. In 1990, the annual average unemployment rate for the City of Long Beach was 5.5 percent, dropping to 5.0 percent in 2000. The unemployment rate increased to 6.2 percent in January, 2003, according to the California Employment Development Department.

Given the low employment rate, it is unlikely that a significant proportion of new jobs in Long Beach will be filled by existing unemployed residents. However, with the recent decline in labor participation rates, there is some room for increased labor participation by the existing population. For the purpose of this analysis, we estimate 5 percent of all new jobs will be filled by residents of existing Long Beach households to take account of both of these factors.

Source: 1990 and 2000 U.S. Census; California Employment Development Department.

4. Estimate Number of Households

Since demand for affordable housing is based on households and not the total population, this step estimates the number of households represented by a given number of employees. Many households contain more than one worker, so each new employee does not necessarily mean a new household.

The 1990 Census reported 197,118 employed residents and 158,975 households in Long Beach, for a ratio of 1.24 employees per household. Long Beach has a large number of elderly households with no workers, therefore including them in the ratio skews the rate of household formation. Therefore, we also calculated the ratio of non-elderly workers to non-elderly households in Long Beach. 1990 Census data indicate that there were 506 employed residents aged 65 years or older and 29,897 households with a household head aged 65 years or older in Long Beach. Therefore, there were 196,612 non-elderly workers in Long Beach, compared to an estimated 129,078 non-elderly households, for a ratio of 1.52 non-elderly workers per non-elderly household.

The 2000 Census reported 189,487 employed residents and 163,088 households in Long Beach, for a ratio of 1.16 employees per household. 2000 Census data indicate that there were 4,508 employed residents aged 65 year or older and 24,920 households with a household head aged 65 year or older in Long Beach. Therefore, there were 184,979 non-elderly workers in Long Beach and 138,168 non-elderly households, for a ratio of 1.34 non-elderly workers per non-elderly household.

For the purposes of this analysis, we have used a factor of 1.34 workers per household, based on the most recent Census data for non-elderly households. Or stated another way, for every 100 workers, we assume 75 new households will be formed. Using this factor, the number of households is calculated as follows:

Employees	divided by	Average Number	=	New
In New		of Workers per		Households
Households		Household		

Sources: 1990 U.S. Census, STF 1 and STF 3; 2000 U.S. Census, SF 1 and SF 3.

5. Distribute Employee Households By Occupation

This step distributes households by occupational groupings for each land use. This step is necessary to be able to accurately estimate new workers' incomes. Our estimates are based on a review of the 1990 U.S. Census Occupation by Industry Survey, which is the only source available which provides cross-tabulations of occupation by industry. For purposes of this analysis, we have used the occupational groupings defined by the State of California Employment Development Department, for consistency with the occupational wage data used in Step 6. These categories are generally similar to those used by the Census. For each land use category, the total number of new worker households is disaggregated into occupational categories as follows:

Occupational Category	Office	Light Manufacturing	Retail	Hotel
Managerial/Administrative	21%	9%	15%	6%
Professional/Technical	16%	8%	5%	3%
Sales and Related	8%	0%	52%	0%
Clerical/Administrative Support	45%	23%	10%	15%
Service	5%	0%	0%	70%
Production/Operating/Maintenance	5%	60%	18%	6%
Total	100%	100%	100%	100%

Source: 1990 U.S. Census, Occupation by Industry Survey
6. Estimate Employee Households Meeting Very Low, Low and Moderate Income and Household Size Criteria Definitions

This step estimates the number of employee households in the occupational categories used in Step 5 that meet very low, low and moderate income criteria. First, typical wages are estimated for employees in each occupational category. Since HUD income limits depend on both household size and household income, we also estimate household sizes. Using available wage and household size data, we determine the number of employee households by land use that meet the very low, low and moderate income limits.

a. Estimated Wages by Occupation

The primary source of information for this step was State of California Employment Development Department wage data by occupation for the Los Angeles-Long Beach MSA, for December, 2002. Data on mean, 25th percentile and 75th percentile hourly wages by occupation were used to estimate the percentage of employees earning salaries in the very low, low or moderate income categories based on the 2003 HUD income limits for Los Angeles-Long Beach MSA.

Table 8 summarizes the 2002 wage survey data by major occupational category. These weighted average hourly wage data are derived from wages on 600 occupational categories.

Table 8 Wages by Occupational Grouping Los Angeles-Long Beach MSA December, 2002

SOC Code Prefix Range (1)	Occupational Category	Employment Estimates	Percent ofTotal Employment	Entry-Level Hourly Wage (2)	Mean Hourly Wage	Mean Annual Wage	25th Percentile Hourly Wage	75th Percentile Hourly Wage
11	Managerial and Administrative	213,620	5.6%	\$22.07	\$34.92	\$73,312.74	\$25.27	\$33.58
13 - 31	Professional, Paraprofessional, and Technical	970,400	25.3%	\$17.14	\$24.91	\$53,237.37	\$19.23	\$23.91
33 - 39	Sales and Related	384,240	10.0%	\$11.19	\$20.08	\$41,770.28	\$12.86	\$18.60
41	Clerical and Administrative Support	787,640	20.6%	\$10.29	\$14.55	\$30,271.27	\$11.30	\$13.84
43	Service	525,320	13.7%	\$9.63	\$13.30	\$28,016.24	\$10.33	\$12.44
45	Agricultural and Related	2,990	0.1%	\$8.99	\$12.13	\$25,232.57	\$9.75	\$11.48
47-53	Production, Construction, Operating, Maintenance and Material Handling	945,120	24.7%	\$10.27	\$15.23	\$32,289.93	\$11.35	\$14.49
	TOTAL	3,829,330	100.0%					

(1) The first two digits of the six digit Standard Occupational Classification (SOC) code.

(2) The mean of the first third of the wage distribution is provided as a proxy for entry-level wage.

Source: California Employment Development Department, Occupational Employment Statistics Survey, December, 2003; David Paul Rosen & Associates.

b. Estimated Household Sizes

HUD's criteria for qualifying households as very low, low or moderate income are dependent on a household meeting certain income limits. HUD income limits are adjusted by household size, with higher income limits for larger households. The distribution of non-elderly households by household size for Long Beach in 2000 is summarized below.

	Households					
Household Size	No.	%				
1 Person	48,207	29.6%				
2 Persons	44,338	27.2%				
3 Persons	23,471	14.4%				
4 Persons	20,297	12.4%				
5 Persons	12,837	7.9%				
6 Persons	6,972	4.3%				
7 or More	6,966	4.3%				
Total	119,857	100.0%				

Distribution of Households by Household Size Households with Householder Less than 65 Years of Age City of Long Beach 2000 Census

c. Estimated Qualifying Households

As noted above, HUD income limits vary by household size. Current 2003 income limits for the Los Angeles-Long Beach MSA are summarized below. The very low and low income units equal HUD 2003 income limits for these categories. The moderate income limit is based on the California Department of Housing and Community Development (HCD) moderate income limits for 2003.

Family Size	1	2	3	4	5
Very Low Income (50% of median)	\$19,750	\$22,550	\$25,400	\$28,200 	\$30,450
Low Income (80% of median)	\$31,600	\$36,100	\$40,600	\$45,100	\$48,750
Moderate Income (120% of median)	\$46,250	\$52,900	\$59,500	\$66,100	\$71,400

Table 9 presents DRA's estimates of the percentage of employees in each occupational category meeting low and moderate income limits based on the wage survey data and HUD 2003 income limits for the Los Angeles-Long Beach MSA. The percentage distribution of hourly wages by occupation was compared to very low, low and moderate income limits translated into hourly wages. A separate percentage distribution was calculated for income limits for household sizes of 1 through 5 persons. The weighted average percentages shown in Table 9 were then calculated based on the distribution of household size for Long Beach in 2000, shown above.

Sources: California Employment Development Department, Occupational Employment Statistics (OES) Survey, December, 2002; U.S. Department of Housing and Urban Development; 2000 U.S. Census.

Table 9 ESTIMATED PERCENT DISTRIBUTION OF WAGES BY OCCUPATION AND INCOME LEVEL (1) LOS ANGELES-LONG BEACH MSA 2003

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	Est. % of Workers Earning Less than 50% AMI	Est. % of Workers Earning 50% to 80% AMI	Est. % of Workers Earning 80% to 120% AMI	Est. % of Workers Earning Above 120% AMI	Total Percent of Employees
Managerial and Administrative	5%	12%	39%	43%	100%
Occupations Professional, Paraprofessional, and Technical	13%	37%	26%	23%	100%
Occupations Sales and Related Occupations	41%	39%	10%	10%	100%
Clerical and Administrative	55%	22%	22%	0%	100%
Support Occupations					
Service Occupations	61%	19%	10%	10%	100%
Agricultural and Related	67%	33%	0%	0%	100%
Occupations Production, Construction,	\$ 53%	32%	8%	8%	100%
Operating, Maintenance and Material Handling					
Occupations					

(1) Based on 2003 HUD income limits for Los Angeles-Long Beach MSA and December, 2002 OES wage survey data from Table 8.

Source: California Employment Development Department, 2002 Occupational Employment Statistics Survey; David Paul Rosen & Associates.

7. Adjust for Multiple Earner Households

Some households have two or more incomes such that the combined incomes will place the household over very low, low or moderate income limits. This last step makes an adjustment to eliminate households that have two or more earners. This is a very conservative assumption since many households with two wage earners still qualify as very low income. For example, a three-person, two worker-household where each worker earns \$6.10 per hour, less than the current minimum wage, would qualify as very low income in Long Beach in 2003.

According to 2000 U.S. Census data, 43 percent of worker families have only one wage earner. For those households, the salary of the wage earner calculated in the steps above is also the household income for that wage earner. We have used this 43 percent factor to eliminate two wage-earner households which, as we have noted, is a conservative assumption.

This final adjustment produces the number of lower income households directly associated with the construction of 100,000 square feet of building area by type as follows:

Number of	х	% Adjustment to	=	Adjusted Number
Qualifying		Eliminate Multiple		of Households
Households		Earner Households		Requiring Assistance

Source: 2000 Census of Population

C. Findings

Table 10 calculates the projected occupational distribution of employment by land use type for office, warehouse/distribution, retail and hotel uses in Long Beach. **Table 11** estimates the number of qualifying very low income households earning no more than 50 percent of area median income or below by land use type. **Table 12** estimates the number of qualifying low income households earning between 50 percent and 80 percent of area median income by land use type. **Table 13** estimates the number of qualifying moderate income households earning between 80 percent and 120 percent of area median income by land use type.

Table 10 PROJECTED OCCUPATIONAL DISTRIBUTION OF ADDITIONAL EMPLOYMENT BY LAND USE TYPE

CITY OF LONG BEACH

2003

			Office		Light	Manufact	uring	"Big	g Box [#] Ret	ail	Com	munity I	Retail		Hotel	
Steps	Factor	%	No.	Units	%	No.	Units	%	No.	Units	%	No.	Units	%	No.	Units
1. Estimate of Employees per																
100.000 square feet																
Employment Density Factor (1)			400	SF/Emp.		800	SE/Emn		800	SE/Emm		100	0.F./F			_
				F-		000	on emp.		800	sr/cmp,		400	SH/Emp.		0.65	Emp./Rm.
															750	SF/Room
Number of Employees			250	Emp.		125	Emp.		125	Emp.		250	Emp		07	F
							•			2		250	unh.		67	Emp.
2. Employees Living in																
City of Long Beach (2)	33%		83	Emp.		41	Emp.	-	41	Emp.		83	Emp.		29	Fmn
2 Adjustment for Labor France																2
3. Adjustment for Labor Force																
Participation increase	5%		78	Emp.		39	Emp.		39	Emp.		78	Emp.		27	Emp.
4. Adjustment for Number of	134 Emp/HH		50	uu		20										
Employees Per Household	no r emprini		50	101		29	нн		29	нн		58	HH		20	нн
1 - 7																
5. Occupational Distribution																
Managerial/Administrative		45%	26	HH	9%	3	нн	15%	4	нн	15%	9	нн	6%	1	нн
Professional/Technical	2	0%	0	HH	8%	2	нн	5%	1	нн	5%	3	нн	3%	1	нн
Sales and Related		0%	0	HH	0%	0	нн	52%	15	нн	52%	30	нн	0%	,	нн
Clerical/Administrative Support		45%	26	HH	23%	7	нн	10%	3	нн	10%	6	нн	15%	. 0	нн
Service		5%	3	HH	0%	0	HH	0%	0	нн	0%	0	НН	70%	14	нн
Production/Operating/Maintenance		5%	3	ΗH	60%	17	нн	18%	5	нн	18%	10	нн	6%	1	нн
T-1 1																
(Ota)		100%	58		100%	29		100%	28		100%	58		100%	20	

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Legend: HH = households; SF = square feet; Emp = employees.

(1) Sources: The Natelson Company, "Employment Density Study Summary Report," 2001;

Urban Land Institute.

(2) Source: 2000 U.S. Census.

Source: David Paul Rosen & Associates.

Table 11 ESTIMATED QUALIFYING VERY LOW INCOME HOUSEHOLDS BY LAND USE TYPE (1) CITY OF LONG BEACH

2003

	Office		Light Manufacturing		"Big Box" Retail		Community Retail		Hotel	
Steps (See Table 10 for Steps 1 through 4)	Percent	No.	Percent	No.	Percent	No.	Percent .	No.	Percent	No.
5. Occupational Distribution (2)										
Managerial/Administrative	45%	26	9%	3	15%	4	15%	9	6%	1
Professional/Technical	0%	0	8%	2	5%	1	5%	3	3%	1
Sales and Related	0%	0	0%	0	52%	15	52%	30	0%	0
Clerical/Administrative Support	45%	26	23%	7	10%	3	10%	6	15%	3
Service	5%	3	0%	0	0%	О	0%	0	70%	14
Production/Operating/Maintenance	5%	3	60%	17	18%	5	18%	10	6%	1
Total	100%	58	100%	29	100%	28	100%	58	100%	20
 Households Earning Less than 50% AMI 										
Managerial/Administrative	5%	1	5%	0	5%	0	5%	0	5%	0
Professional/Technical	13%	0	13%	0	13%	0	13%	0	13%	0
Sales and Related	41%	0	41%	0	41%	6	41%	12	41%	0
Clerical/Administrative Support	55%	14	55%	4	55%	2	55%	3	55%	- 2
Service	61%	2	61%	0	61%	0	61%	0	61%	9
Production/Operating/Maintenance	53%	2	53%	9	53%	3	53%	6	53%	1
Total		19		13		11		22		11
 Adjustment to Eliminate Multiple Earner Households Earning in Excess of 50% AMI 	43%	8		6		5		9		5

Based on 100,000 square foot land use type prototypical developments.
 From Table 11.

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Source: California Employment Development Department 2002 occupational wage survey; 2000 U.S. Census; of David Paul Rosen & Associates.

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Table 12 ESTIMATED QUALIFYING LOW INCOME HOUSEHOLDS BY LAND USE TYPE (1) CITY OF LONG BEACH

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2003

	Office		Light Manufacturing		"Big Box" Retail		Community Retail		Hotel	
Steps (See Table 10 for Steps 1 through 4)	Percent	<u>No.</u>	Percent	No.	Percent	No.	Percent	No.	Percent	No.
5. Occupational Distribution										
Managerial/Administrative	45%	26	9%	3	15%	А	1 59/	0	604	
Professional/Technical	0%	0	8%	2	5%		1J /6 E9/	9	6%	1
Sales and Related	0%	0	0%	0	52%	15	576	20	3%	1
Clerical/Administrative Support	45%	26	23%	7	10%	13	1.0%	30	0%	0
Service	5%	3	0%	0	0%	0	0%	0	15%	3
Production/Operating/Maintenance	5%	3	60%	17	18%	5	18%	10	70% 6%	14 1
Total	100%	58	100%	29	100%	28	100%		100%	20
6. Households Earning Between 50% and 80% AMI										
Managerial/Administrative	12%	3	12%	0	12%	0	100/	1	100/	-
Professional/Technical	37%	0	37%	1	37%	0	12 /0	1	12%	0
Sales and Related	39%	0	39%	, 0	39%	6	37 %	1	37%	0
Clerical/Administrative Support	22%	6	22%	2	22%	1	33%	12	39%	0
Service	19%	1	19%	0	19%	1	22%	1	22%	1
Production/Operating/Maintenance	32%	1	32%	6	32%	2	13/6	0	19%	3
Total					0270		5270		32%	0
		10		8		9		19		. 4
 Adjustment to Eliminate Multiple Earner Households Earning in Excess of 80% AMI 	53%	5		4		5		10		2

(1) Based on 100,000 square foot land use type prototypical developments.

(2) From Table 11.

Source: California Employment Development Department 2002 occupational wage survey; 2000 U.S. Census; of David Paul Rosen & Associates.

Table 13 ESTIMATED QUALIFYING MODERATE HOUSEHOLDS BY LAND USE TYPE (1) CITY OF LONG BEACH

2003

	Offi	ice	Light Manı	Ifacturing	"Big Box'	' Retail	Communit	y Retail	Hot	el
Steps (See Table 10 for Steps 1 through 4)	Percent	No.	Percent	No.	Percent	No.	Percent	No.	Percent	No.
5. Occupational Distribution										
Managerial/Administrative	45%	26	9%	3	15%	4	15%	9	6%	1
Professional/Technical	0%	0	8%	2	5%	1	5%	3	3%	1
Sales and Related	0%	0	0%	0	52%	15	52%	30	0%	0
Clerical/Administrative Support	45%	26	23%	7	10%	3	10%	6	15%	3
Service	5%	3	0%	0	0%	0	0%	0	70%	14
Production/Operating/Maintenance	5%	3	60%	17	18%	5	18%	10	6%	1
Total	100%	58	100%	29	100%	28	100%	58	100%	20
 Households Earning Between 80% and 120% AMI 										
Managerial/Administrative	39%	10	39%	1	39%	2	39%	4	39%	0
Professional/Technical	26%	0	26%	1	26%	0	26%	1	26%	0
Sales and Related	10%	0	10%	0	10%	2	10%	3	10%	0
Clerical/Administrative Support	22%	6	22%	2	22%	1	22%	. 1	22%	1
Service	10%	0	10%	0	10%	0	10%	0	10%	1
Production/Operating/Maintenance	8%	0	8%	1	8%	0	8%	1	8%	0
Total		16		5		4		9		3
7. Adjustment to Eliminate Multiple Earner Households Earning in Excess of 120% AMI	53%	9		2		2		. 5		1

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(1) Based on 100,000 square foot land use type prototypical developments.

(2) From Table 11.

Source: California Employment Development Department 2002 occupational wage survey; 2000 U.S. Census; of David Paul Rosen & Associates.

V. NEXUS FEE AMOUNT

This section uses the results of the previous section on the number of households in the lower income categories associated with each building type and identifies the fee required to mitigate new demand generated by each building type for housing affordable to low and moderate income households.

A. Affordability Gap Analysis

The affordability gap analysis compares the cost of housing development in Long Beach to the amount low and moderate income households can afford to pay for housing. The affordability gap represents the capital subsidy required to develop housing affordable to families at specified income levels. The findings of the gap analysis are used to calculate the fee amount for which a nexus can be shown.

The methodology, key assumptions and findings of the affordability gap analysis are summarized below. The complete gap analysis is contained in the Inclusionary Housing Analysis prepared by DRA under separate cover.

1. Methodology

The first step in the gap analysis establishes the amount a tenant or homebuyer can afford to contribute to the cost of renting or owning a dwelling unit. California Redevelopment Law⁴ (CRL), the U.S. Department of Housing and Urban Development (HUD) and most other sources of subsidy for affordable housing generally define affordable housing expense at 30 percent of a household's gross income. For moderate income homeowners, CRL defines affordable housing expense at 35 percent of gross income.

For renters, CRL and HUD define affordable housing expense to include rent plus utilities. Affordable net rents are calculated subtracting allowances for the utilities paid directly by the tenants from the overall affordable housing expense. For owners, the affordable mortgage principal and interest payment is calculated by determining the affordable housing expense and deducting costs for taxes, property insurance, utilities, homeowner association dues and maintenance expense. This is consistent with the definition of affordable housing expense for owners under CRL.

The second step estimated the costs of constructing or preserving affordable housing in Long Beach. As part of the "Inclusionary Housing Analysis" prepared by DRA under separate cover, DRA calculated the affordability gap for two renter prototypes and four owner prototypes. The rental apartment prototype is used to establish the gaps for very low and low income households, who are assumed to be renters. The owner condominium prototype is used to calculate the gap for moderate income households, who are assumed to be renters.

⁴ CRL governs the use of redevelopment tax increment Housing Set-Aside Funds, the largest source of local subsidies for affordable housing in California.

The third step in the gap analysis establishes the housing expenses borne by the tenants and owners. These costs can be categorized into operating costs, and financing or mortgage obligations. Operating costs are the maintenance expenses of the unit, including utilities, property maintenance, property taxes, management fees, property insurance, replacement reserve, and insurance. For the rental prototypes examined in this analysis, DRA assumed that the landlord pays all but certain tenant-paid utilities as an annual operating cost of the unit paid from rental income. For owner prototypes, DRA assumed the homebuyer pays all operating and maintenance costs for the home.

Financing or mortgage obligations are the costs associated with the purchase or development of the housing unit itself. These costs occur when all or a portion of the development cost is financed. This cost is always an obligation of the landlord or owner. Supportable financing is deducted from the total development cost, less any owner equity (for owner-occupied housing, the downpayment) to determine the capital subsidy required to develop the prototypical housing unit affordable to an eligible family at each income level.

For rental housing prototypes, the gap analysis calculates the difference between total development costs and the conventional mortgage supportable by net operating income from restricted rents. For owners, the gap is the difference between development costs and the supportable mortgage plus the buyer's downpayment.

The purpose of the gap analysis in this report is to determine the fee amount by land use that would be required to develop housing affordable to the very low, low and moderate income households who will need to find housing in Long Beach in connection with new non-residential development in the City. Therefore, no housing subsidies, or leverage, are assumed.

2. Affordable Housing Cost Definitions

DRA analyzed the gap for very low and low income renter households and for moderate income owner households. Calculation of the affordability gap requires definition of affordable housing expense for renters and owners. The affordable housing cost definitions used in this gap analysis are shown below. Affordable housing cost is typically set at the top of the income range, which means that all households except those at the upper limit of the income range will be overpaying for housing (paying more than 30 or 35 percent of their income). For the purposes of this analysis, affordable housing cost was defined at a point somewhat below the maximum of the income category to better reflect the range of household incomes contained in each category.

Income Level	Affordable Housing Cost Definition
50% AMI (Very Low Income)	30% of 45% AMI
80% AMI (Low Income)	30% of 60% AMI
120% AMI (Moderate Income)	35% of 90% AMI

Affordable Housing Cost Definitions Long Beach Affordability Gap Analysis

3. Summary of Findings

DRA estimated the development costs for renter and owner housing prototypes, and calculated the supportable debt from affordable rents or mortgage payments. This analysis is contained in the City of Long Beach Inclusionary Housing Analysis prepared by DRA under separate cover. To be conservative for the purposes of the nexus analysis, we have used the affordability gaps from the lowest cost prototypes. These are the Type V construction apartments for renters and Type V condominiums for owners. Per unit total development costs, supportable mortgages and affordability gaps are summarized in **Table 14** below for the renter and owner prototypes analyzed.

Table 14Total Per Unit Development Costs, Supportable Mortgage, and Affordability GapCity of Long Beach Housing Prototypes

	Type V Rental Apartments	Type V Owner Condominiums
Development Costs		
Land Costs Hard Costs Financing Costs Other Soft Costs Total Development Costs	\$ 16,000 96,000 7,000 46,000 \$165,000	\$ 16,000 113,000 11,000 61,000 \$201,000
Supportable Mortgage ⁵		
Very Low Income Low Income Moderate Income	17,000 37,000 N/A	N/A N/A \$141,000
Affordability Gap		
Very Low Income Low Income Moderate Income	\$148,000 128,000 N/A	N/A N/A \$60,000

⁵ Includes per unit supportable mortgage at affordable housing cost; equals average for housing prototype across unit sizes. For owner prototypes, includes 10 percent buyer downpayment.

B. Supportable Nexus Fee Amount

The last step in the nexus analysis is to multiply the number of households in each income category by the cost of making housing affordable to them. We used the per unit affordability gaps listed in Table 12 above.

Table 15 presents the calculation of the justifiable nexus fee. The findings are summarized below.

Household	Supportable Nexus Fee Per Building Square Foot										
Income Category	Office	Light Manuf.	"Big Box" Retail	Commun. Retail	Hotel						
Very Low	\$12.08	\$7.55	\$6.04	\$13.59	\$6.04						
Low	\$6.55	\$5.24	\$6.55	\$11.79	\$2.62						
Moderate	\$3.84	\$0.96	\$0.96	\$2.40	\$0.48						
Total	\$22.47	\$13.75	\$13.55	\$27.78	\$9.14						

The conclusion of the analysis is that the fee amount needed to offset housing demand created by office building construction for very low income households is \$22.47 per square foot. This is based on the conservative assumptions noted above and the actual amount is likely higher. The lowest fee is for hotel uses where the justified fee amount calculates to \$9.14 per square foot.

The justified fee amounts are useful measuring sticks, and as a ceiling above which any fee structure would be subject to legal challenge. Given the assumptions intrinsic to any nexus analysis, setting fees below the justified fee amount would make it less likely that a challenge to any one assumption would affect the whole program. Given the high level of supportable fees in Long Beach, an acceptable fee is likely to be less than the justified fee amount for most uses.

Table 15 JUSTIFIABLE HOUSING LINKAGE FEE BY LAND USE CITY OF LONG BEACH

2003

		Office	Light Manufacturing	"Big Box" Retail	Community Retail	Hotel
Very Low Income Households						
 Very Low Income Households Employed per 100,000 SF Development 			6	5	9	5
 Estimated Housing Gap Cost at Per Unit Gap of: (1) 	\$148,000	\$1,184,000	\$888,000	\$740,000	\$1,332,000	\$740,000
3. Cost of Housing Gap Per Square Foot Bldg. Area		\$11.84	\$8.88	\$7.40	\$13.32	\$7.40
Low Income Households						
 Low Income Households Employed per 100,000 SF Development 		. 5	4	5	10	2
2. Estimated Housing Gap Cost at Per Unit Gap of: (1)	\$128,000	\$640,000	\$512,000	\$640,000	\$1,280,000	\$256,000
3. Cost of Housing Gap Per Square Foot Bldg. Area		\$6.40	\$5.12	\$6.40	\$12.80	\$2.56
Moderate Income Households						
 Moderate Income Households Employed per 100,000 SF Development 		9	2	2	5	1
2. Estimated Housing Gap Cost at Per Unit Gap of: (1)	\$60,000	\$540,000	\$120,000	\$120,000	\$300,000	\$60,000
3. Cost of Housing Gap Per Square Foot Bldg. Area		\$5.40	\$1.20	\$1.20	\$3.00	\$0.60
Total Fee Per Square Foot		\$23.64	\$15.20	\$15.00	\$29.12	\$10.56

(1) From "Inclusionary Housing Analysis" report prepared by DRA. For the very low and low income categories, we used the per unit gap for the Type V apartment prototype, with affordable housing cost pegged at 45% of area median income (AMI) and 60% AMI, respectively. For the moderate income category, we used the per unit gap for the owner Type V condo, with housing cost pegged at 90% of AMI.

Legend: HH = households; SF = square feet; Emp = employees..

Source: Urban Land Institute; Association of Bay Area Governments; 1990 Census of Occupation by Industry; California Employment

VI. NEXUS FEE REVENUE PROJECTIONS

Table 16 presents projected linkage fee revenues at alternative fee levels based on the current pipeline of major development projects in Long Beach. These projections are based on illustrative fee levels only, ranging from \$2.00 per square foot to \$10.00 per square foot.

The projections show potential revenues from major projects in the following major stages of the planning approval process in Long Beach: "preliminary" and "entitlements granted." We have excluded projects that are already under construction. A detailed description of the major projects in the development pipeline in Long Beach as of November 1, 2002 by land use category is contained in **Appendix A**.

The resulting projections indicate that developments that have already received entitlements would generate fee revenues of \$1.8 million to \$8.9 million at alternative fee levels ranging from \$2.00 per square foot to \$10.00 per square foot, respectively. Projects designated as preliminary would generate revenues of \$1.4 million to \$7.1 million at fee levels of \$2.00 to \$10.00 per square foot, respectively.

Combined total fees from all major projects in the development pipeline not under construction equal \$3.2 million to \$16.0 million at fees of \$2.00 per square foot to \$10.00 per square foot, respectively. Clearly, a housing linkage fee is potentially a significant source of funds to help mitigate demand for affordable housing associated with job growth, even at fee levels substantially below those justified by the economic analysis.

Table 16 COMMERCIAL DEVELOPMENT IMPACT FEE REVENUE PROJECTIONS FROM THE CURRENT DEVELOPMENT PIPELINE **CITY OF LONG BEACH**

		2003						
Retail/								
	Office	Commercial	Hotel (1)	Industrial (2)	TOTAL			
Development Pipeline (SF) (3)								
Entitlements Granted	292,000	52,834	173.250	368.328				
Preliminary	0	23,636	149,250	545,135				
Total Development Pipeline	292,000	76,470	322,500	913,463				
Projected Fee Revenues	· · · · · · · · · · · · · · · · · · ·				······			
Revenues from Projects with Entitlemen	nts							
At a Per Square Foot Fee of:								
\$2.00	\$584,000	\$105,668	\$346,500	\$736.656	\$1 772 824			
\$4.00	\$1,168,000	\$211,336	\$693,000	\$1,473,312	\$3,545,648			
\$6.00	\$1,752,000	\$317,004	\$1,039,500	\$2,209,968	\$5,318,472			
\$8.00	\$2,336,000	\$422,672	\$1,386,000	\$2,946,624	\$7.091.296			
\$10.00	\$2,920,000	\$528,340	\$1,732,500	\$3,683,280	\$8,864,120			
Revenues from Projects in Preliminary S	Stage							
At a Per Square Foot Fee of:	-							
\$2.00	\$0	\$47,272	\$298,500	\$1,090.270	\$1,436,042			
\$4.00	\$0	\$94,544	\$597,000	\$2,180,540	\$2.872.084			
\$6.00	\$0	\$141,816	\$895,500	\$3,270,810	\$4,308,126			
\$8.00	\$0	\$189,088	\$1,194,000	\$4,361,080	\$5,744,168			
\$10.00	\$O	\$236,360	\$1,492,500	\$5,451,350	\$7,180,210			
Total Projected Fee Revenues (2)								
\$2.00	\$584.000	\$152 940	\$645.000	¢1 936 036	#2 200 BCC			
\$4.00	\$1,168,000	\$305 880	\$1 290 000	\$1,020,920 \$3,652,853	\$3,200,000 \$6,417,700			
\$6.00	\$1,752,000	\$458,820	\$1,935,000	\$5,480,779	30,417,732			
\$8.00	\$2,336,000	\$611.760	\$2 580 000	\$7307704	37,020,398			
\$10.00	\$2,920,000	\$764 700	\$3,225,000	\$0,507,704 \$0,137,630	₹16,033,464			
* · · · · ·	42,520,000	<i>4, 0 1, 0</i> 0	<i>43,223,000</i>	99,19 4 ,090	\$10,044,330			

Assumes an average of 750 gross square feet per hotel room applied to number of hotel rooms in the pipeline.
 The "industrial" pipeline consists primary of self-storage facilities.

(3) See Appendix C for a detailed listing of projects in the Long Beach development pipeline.

Source: David Paul Rosen & Associates.

VII. ECONOMIC IMPACT ANALYSIS

The section assesses the potential economic impact of a linkage fee on office, hotel, retail and warehouse/distribution land uses.

The increase in cost associated with the nexus fee, however large or small, must be absorbed in one of the following three ways, or some combination of the three:

- 1. through an increase to the cost to the end user of the building in the form of a price or rent increase;
- 2. through a decrease in profits to the developer who develops the site; and/or
- 3. through a decrease in the price for the land paid to the landowner.

In a competitive market, owners of commercial buildings are already commanding the maximum sales price or rents that the market will bear. Therefore, it is least likely that sales prices or rents will increase.

When an additional cost is imposed on a project after the land is purchased, the developer will most likely bear the cost in terms of reduced profit on projects in the pipeline. Over time, developers will shop for the highest return on their investment within the regional market area. The total amount of development impact fees is but one of many of the cost and income factors that determine the rate of return from one project compared to another. Ultimately, the fee is most likely to be absorbed through a decrease in land price after the market adjusts. This may take several years as the projects already in the pipeline are completed.

Given these potential alternative impacts, we use several different approaches in assessing the economic effect of a proposed linkage fee. We compare current development fees in Long Beach with other communities in the Southern California regional market. We conduct a land residual analysis that calculates the value attributed to land from proposed development on a site, with and without a nexus fee. We also use a market and investment approach that calculates the increase in rents, or decrease in the rate of return on investor equity, required to accommodate the fee at current market terms for both debt and equity financing.

A. Comparison of Development Impact Fees in Selected Cities

1. Regional Survey of Development Impact Fees

The City of Long Beach will be competing in the Southern California regional market to attract new non-residential development. We examine existing development impact fees, including commercial linkage fees and other types of development impact fees, in selected Southern California cities in order to compare fees in Long Beach with those in other communities.

City of Long Beach staff conducted a survey of development impact fees among selected Southland cities and counties to determine the types of fees charged by these jurisdictions and the amounts of these fees. Staff surveyed the following cities:

- City of Pasadena
- City of Los Angeles
- City of Glendale
- City of Santa Monica
- City of Carson
- City of Santa Ana
- City of Torrance
- City of Carlsbad
- Los Angeles County
- Orange County

The information was sorted by land use type to determine the types of fees charged on land use types that are incorporated in this nexus analysis. The fee information is presented for retail, residential, office, hotel, warehouse and restaurant uses. **Appendix B** includes the detailed findings from the development impact fee survey.

Development impact fee amounts and types vary greatly by jurisdiction. For commercial uses, typical fees include transportation, sewer, storm drain, fire facility, school district and art fees.

2. Estimated Total Development Impact Fees Per Square Foot

Using the survey information, City staff estimated total local development impact fees for prototype 50,000 square foot retail, residential, office, hotel, restaurant and warehouse/light manufacturing buildings. These totals are shown in **Appendix A**. DRA calculated the total fee per square foot land use, summarized in **Table 17** below.

Total development impact fees per square foot for the prototype projects vary widely by community. Long Beach currently charges development impact fees except ranging from \$1.49 per square foot for restaurant uses to \$4.00 per square foot for retail uses. Carson only charges a school fee of \$0.42 per square foot on commercial development. Santa Monica only charges a school fee of \$0.31 per square foot, except on office uses, for which total fees are \$8.84 per square foot for the prototype project.

Santa Ana charges the highest fees, estimated at \$9.71 to \$11.20 per square foot for the prototype projects. Pasadena's total fees are estimated at \$5.59 to \$7.17 per square foot for the prototype projects.

Table 17 Estimated Total Development Fees Per Square Foot 50,000 Square Foot Land Use Prototypes Long Beach and Selected Southern California Cities and Counties

City	Retail	Office	Hotel	Restaurant	Warehouse/ Light Manuf.
Carson	\$0.42	\$0.42	\$0.42	\$0.42	\$0.33
Glendale	\$1.02	\$1.04	\$1.01	\$1.32	\$0.69
Long Beach	\$4.00	\$3.23	\$3.42	\$1.49	\$1.81
City of Los Angeles City	\$1.13 plus transp.	\$1.41 plus transp.	\$1.65 plus transp.	\$1.67 plus transp.	\$1.21 plus transp.
Los Angeles County	\$0.89	\$0.89	\$0.89	\$0.89	\$0.89
Pasadena	\$5.59	\$6.41	\$7.11	\$7.17	\$5.82
Santa Ana	\$10.28 plus sewer	\$10.28 plus sewer	\$11.20 plus sewer	\$11.20 plus sewer	\$9.71 plus sewer
Santa Monica	\$0.31	\$8.84	\$0.31	\$0.31	\$0.31
Torrance	\$1.54	\$1.54	\$1.54	\$1.54	\$1.54

Source: City of Long Beach staff survey of development impact fees; David Paul Rosen & Associates.

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B. Land Residual Analysis

1. Land Residual Analysis Methodology

A land residual analysis methodology calculates the value attributed to land from proposed development on that site. It is commonly used by real estate developers and investors to evaluate development financial feasibility and select among alternative uses for a piece of property.

The land residual methodology calculates the value of a development based on its income potential and subtracts the costs of development and developer profit to yield the underlying value of the land. When evaluating alternative land uses, the alternative that generates the highest value to a site is considered its highest and best use. An alternative that generates a value to the land that is negative is generally not financially feasible.

DRA calculated net operating income from a 100,000 square foot building prototype for each commercial land use examined based on estimated market rents, vacancy rates and operating costs. Net operating income is capitalized assumed capitalization rates ranging from 8.5 percent to 9.0 percent, based on recent capitalization rate data as described below, to determine the value of the developed property. The capitalization rate is the ratio of net operating income to project fair market value, or sales price, exhibited in the market and reflects the rate of return required by investors in rental property. Total development costs are then subtracted from the capitalized value to yield the estimated residual land value.

2. Assumptions

Land residual analysis requires assumptions on gross income, vacancies and operating costs, hard construction costs, other development and soft costs for each land use to be examined. These assumptions are summarized in **Table 18**.

Current development costs by land use (excluding land/costs) were estimated using *RS Means Square Foot Costs 2002* localized to the Los Angeles area. Current rents for office and hotel uses were derived through developer interviews and a review of available market information.

Estimated annual net operating income and total development costs (excluding land) for each of the 100,000 square foot building prototypes are shown in **Table 19**.

Land residual analysis also requires an assumed capitalization rate for calculating the value of the development from net operating income. DRA reviewed available information on capitalization rates in the Los Angeles area by development type for selected commercial and industrial land uses. These data, summarized in **Table 20**, are from the National Real Estate Index Market Monitor.

Table 18 LAND RESIDUAL ANALYSIS ASSUMPTIONS CITY OF LONG BEACH COMMERCIAL DEVELOPMENT IMPACT FEE ECONOMIC IMPACT ANALYSIS

	Unit of	Class A	Big Box	Community		Light	
COST/INCOME BY LAND USE	Measure	Office	Retail	Retail	Hotel	Manufact.	
Hard Construction Costs (1)	Gross SF	\$108.00	\$84.00	\$84.00	\$110.00	\$79.00	
Development Impact Fees (2)	Gross SF	\$5.20	\$6.00	\$6.00	\$5.30	\$3.80	
T.I. Allowance/FF&E	Net Rentable SF	\$35.00	\$0.00	\$35.00	\$35.00	\$15.00	
Gross Income (3)	Net Rentable SF	\$24.00	\$20.00	\$26.00	\$100.00	\$13.00	
Other Income	% of Gr.Inc.	0.0%	0.0%	0.0%	33.0%	425.00 MON	
Operating Expenses	% of Gr.Inc.	5.0%	5.0%	5.0%	75.0%	5.0%	
Efficiency	%	90.0%	95.0%	87.5%	75.0%	05.0%	
Net SF/Unit	Net SF	,-	501070	07.570	75.070	55.076	
Occupancy Rate	%	95.0%	100.0%	95 0%	, 730 20 07	100.0%	
Parking Income	\$/Space/Mo (4)	\$75.00	\$0.00	\$0.00	70.0%	100.0%	
Parking Expense	% of Gr.Inc.	20.0%	0.0%	0.0%	0.0%	\$0.00 0.0%	
PARKING REQUIREMENTS							
Parking Spaces		24	5.0	5.0	1 3	2.0	
Per		1000	1000	1000	1.2	2.0	
Unit		Gross SE	Crore SE	Cross SE	I D	1000	
		0.033.51	01055 51	Gross ar	KOOM	Gross SF	
PARKING COSTS							
Above-Grade Structured Parking		\$25.00	So Et @	400 S	E/Space or	¢10.000	/S == ==
Underground Parking		\$50.00	So Et @	400 5	E/Space of	\$10,000	/space
Surface Parking		\$2.57	So, Et @	400 3	F/Space or	\$20,000	/space
		¥2.57	54. I C. &	350 3	r/space or	\$900	/5расе
CONTINGENCIES		3.0%	Percent of To	otal Hard Costs			
CONSTRUCTION FINANCING							
Construction Interest @		8.0%	Assumes 12 m	opth developm	ant period and	60% 20000000	leas below
Loan Origination Fees @		1.5%	Points	ional developing	in period and	100% average	IOan Daianc
SOFT COSTS							
Planning/Design		0.0%	Included in h	lard Corte			
Taxes/Insurance/Legal/Accountin	σ	2.0%	Percent of L				
Marketing/Leasing	6	2.0%	Percent of H	and Costs Plus 16	enant improve	ments	
Development Management		2.0%	Percent of Ha	ard Costs Plus Te	enant Improve	ements	
TOTAL SOFT COSTS		3.0%	Percent of Ha	ard Costs Plus Te	enant Improve	ements	
10 //2 0011 00315		7.0%	Percent of Ha	ard Costs Plus 1e	enant Improve	ments	
INDICATED SF BY USE		Class A	Big Box	Community		Light	
		Office	Ketail	Retail	Hotel	Manufact.	TOTAL
Gross Building Square Feet		100,000	100.000	100.000	100 000	100.000	400 000
# of Hotel Rooms			,	100,000	133	100,000	100,000
					.55		133
PARKINGREQUIRED							
Total Parking Spaces By Use		240	500	500	160	200	1,600
PARKING ALLOCATION							
Above-Grade Parking Spaces		0.0%	0.0%	0.0%	0.0%	0.0%	
Underground Parking		100.0%	0.0%	0.0%	85.0%	0.0%	
Surface Parking		0.0%	100.0%	100.0%	15.0%	100.0%	
Total Parking Spaces		100.0%	100.0%	100.0%	100.0%	100.0%	
TOTAL PARKING SPACES						,,	
Above-Grade Parking Source		<u> </u>	~		_		
Underground Parking		0	0	0	0	0	0
Surface Parking		240	0	0	136	0	376
Total Parking Cases		0	500	500	24	200	1,224
iotal raiking spaces		240	500	500	160	200	1,600

From R.S. Means, 2002. Includes architect and engineering fees at 6% to 8% depending on land use. See footnotes Table 9.
 Based on City estimates of development impact fees by land use from Table 1 plus \$2.00 per SF for building permit/processing fees.
 For hotel use, income equals average daily room rate. For all other uses, income equals annual NNN rent per net rentable SF.

⁽⁴⁾ Hotel parking income included in room rate.

Table 19 LAND RESIDUAL ANALYSIS CALCULATIONS CITY OF LONG BEACH COMMERCIAL DEVELOPMENT IMPACT FEE ECONOMIC IMPACT ANALYSIS

2003

	•				
	Class A Office (1)	Big Box Retail (2)	Community Retail (3)	Hotel (4)	Light Manufact. (5)
BUILDING SQUARE FEET	100,000	100,000	100,000	100,000	100,000
CONSTRUCTION COSTS (000's)					
Shell and Core Costs	\$10,800	\$8,400	\$8,400	\$11,000	\$7,900
Parking Costs	\$4,800	\$450	\$450	\$2,742	\$180
Permits and Fees	\$520	\$600	\$600	\$530	\$380
TOTAL HARD COSTS	\$16,120	\$9,450	\$9,450	\$14,272	\$8,460
Plus: Contingencies	\$484	\$284	\$284	\$428	\$254
Plus: Tenant Improvements/FF&E	\$3,150	\$0	\$3,063	\$2,625	\$1,425
Plus: Soft Costs	\$1,349	\$662	\$876	\$1,183	\$692
Plus: Financing Costs	\$1,329	\$655	\$861	\$1,166	\$682
TOTAL CONSTRUCTION COSTS (000's)	\$22,432	\$11,050	\$14,533	\$19,673	\$11,513
TOTAL COSTS/SF	\$224.32	\$110.50	\$145.33	\$196.73	\$115.13
NET (OPERATING) INCOME (000's)					
Gross Income By Use	\$2,052	\$1,900	\$2,161	\$3,398	\$2,185
Plus: Other Income	\$0	\$0	\$0	\$1,121	\$0
Plus: Parking Income	\$216	\$0	\$0	\$0	\$0
TOTAL INCOME	\$2,268	\$1,900	\$2,161	\$4,520	\$2,185
Less: Operating Expense	\$146	\$95	\$108	\$2,549	\$109
NET (OPERATING) INCOME	\$2,122	\$1,805	\$2,053	\$1,971	\$2,076
NET (OPERATING) INCOME /SF	\$21.22	\$18.05	\$20.53	\$19.71	\$20.76
					-

 Assumes annual NNN rent of \$24 per net rentable square foot. Assumes hard cost per square foot of \$108 per square foot for an 5-10 story office building of 100,000 square feet, localized to the Los Angeles area, from RS Means Per Square Foot Costs 2002.

(2) Assumes annual NNN rent of \$20 per net rentable square foot.
 Assumes hard cost per square foot of \$84 per square foot for a retail store, split-face concrete block construction, localized to the Los Angeles area, from *RS Means Per Square Foot Costs 2002.*

(3) Assumes annual NNN rent of \$26 per net rentable square foot. Assumes hard cost per square foot of \$84 per square foot for a retail store, split-face concrete block construction, localized to the Los Angeles area, from RS Means Per Square Foot Costs 2002.

(4) Assumes average nightly room rate of \$100 and average room size of 750 sq. ft. Assumes hard cost per square foot of \$110 per square foot for an 4-7 story hotel of 100,000 square feet, glass and metal curtain wall construction, localized to the Los Angeles area, from *RS Means Per Square Foot Costs 2002*.
(5) Assumes annual NNN rent of \$15 per net rentable square foot.

Assumes hard cost per square foot of \$79 per square foot for a manufacturing building, tilt-up concrete construction, localized to the Los Angeles area, from *RS Means Per Square Foot Costs 2002*.

Source: David Paul Rosen & Associates

Table 20 HISTORICAL CAPITALIZATION RATE DATA (1) LONG BEACH

	CBD Office	Suburban Office	Retail	Warehouse
1991	7.4%	N/A	N/A	N/A
1995	8.6%	N/A	N/A	N/A
4th Quarter 1998	8.0%	8.4%	9.2%	8.2%
3rd Quarter 1999	8.2%	7.5%	9.0%	9.0%
4th Quarter 1999	8.1%	7.4%	9.1%	9.3%
1st Quarter 2002	7.5%	6.5%	9.1%	8.5%
4th Quarter 2002	7.0%	6.5%	8.4%	8.2%
1st Quarter 2003	7.0%	6.4%	8.4%	8.2%

(1) Contributors of property-level data to the National Real Estate Index include local CB Richard Ellis offices, CB Richard Ellis Appraisal Servics, CB Richard Ellis Investment Properties Group, Koll 1031 Exchange Services, L.J. Melody, and 150 other financial institutions, pension funds/advisc appraisal firms, insurance companies and real estate brokers.

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Source: National Real Estate Index Market Monitor; David Paul Rosen & Associates

Capitalization rates change with expectations of returns from investment in various types of real estate development relative to other available investment opportunities. For CBD office uses, capitalization rates varied from a low of 7.0 percent in the first quarter of 2003 to a high of 8.6 percent in 1995. For suburban office uses, capitalization rates ranged from a low of 6.0 percent in the first quarter of 2003 to a high of 8.4 percent in the fourth quarter of 1998. Capitalization rates for retail and warehouse uses have generally remained above those for office uses, ranging from 8.4 percent to 9.2 percent for retail and 8.2 percent to 9.0 percent for warehouse.

3. Findings

DRA calculated residual land values for Class A office, "big box" retail, community retail, hotel and light manufacturing uses. We calculated residual land values without any nexus fee, and then again with the nexus fee at levels ranging from \$2.00 to \$10.00 per square foot. The findings of the land residual analysis are summarized in **Table 21**.

Data on vacant commercial and industrial land sales in Long Beach between January 1, 2002 and February 15, 2003 from Dataquick Information Systems are summarized in **Table 22**. We also reviewed recent appraisals of land with commercial or planned development (PD) zoning. This information is summarized in **Table 23**.

Table 21 LAND RESIDUAL ANALYSIS 100,000 SQUARE FOOT BUILDING PROTOTYPES CITY OF LONG BEACH COMMERCIAL DEVELOPMENT IMPACT FEE ECONOMIC IMPACT ANALYSIS

Land Use:	·····	Class A Office	"Big Box" Retail	Community Retail	Class A Hotel	Light Manufact.
Gross SF Bldg Area		100.000	100.000	100.000	100.000	100 000
Net SF Site Area		58.824	400,000	400,000	58.824	100,000
Floor Area Ratio		1.70	0.25	0.25	1.70	0.25
Ann. Net Operating In	come (000's)	\$2,122	\$1,805	\$2,053	\$1,971	\$2,076
Assumed Capitalizatio	n Rate:	8.50%	9.00%	9.00%	9.00%	9.00%
Capitalized Value (000	D's) @:	\$24,967	\$20.056	\$22 813	\$21,899	\$23.064
				422/015	421,055	\$25,004
Total Develop. Costs E	except Land (000's					
No Nexus Fee		\$22,432	\$11,050	\$14,533	\$19,673	\$11,513
Nexus Fee of:	\$2.00	\$22,632	\$11,250	\$14,733	\$19,873	\$11,713
Nexus Fee of:	\$4.00	\$22,832	\$11,450	\$14,933	\$20,073	\$11,913
Nexus Fee of:	\$6.00	\$23,032	\$11,650	\$15,133	\$20,273	\$12,113
Nexus Fee of:	\$8.00	\$23,232	\$11,850	\$15,333	\$20,473	\$12,313
Nexus Fee of:	\$10.00	\$23,432	\$12,050	\$15,533	\$20,673	\$12,513
Nexus Fee of:	\$15.00	\$23,932	\$12,550	\$16,033	\$21,173	\$13,013
Nexus Fee of:	\$20.00	\$24,432	\$13,050	\$16,533	\$21,673	\$13,513
Resid. Land Value (000)'s)					
No Nexus Fee		\$2,535	\$9,006	\$8,280	\$2,226	\$11,551
Nexus Fee of:	\$2.00	\$2,335	\$8,806	\$8,080	\$2,026	\$11,351
Nexus Fee of:	\$4.00	\$2,135	\$8,606	\$7,880	\$1,826	\$11,151
Nexus Fee of:	\$6.00	\$1,935	\$8,406	\$7,680	\$1,626	\$10,951
Nexus Fee of:	\$8.00	\$1,735	\$8,206	\$7,480	\$1,426	\$10,751
Nexus Fee of:	\$10.00	\$1,535	\$8,006	\$7,280	\$1,226	\$10,551
Nexus Fee of:	\$15.00	\$1,035	\$7,506	\$6,780	\$726	\$10,051
Nexus Fee of:	\$20.00	\$535	\$7,006	\$6,280	\$226	\$9,551
Resid. Land Value Per S	SF Site Area					
No Nexus Fee		\$43	\$23	\$21	\$38	\$79
Nexus Fee of:	\$2.00	\$40	\$22	\$20	\$34	\$28
Nexus Fee of:	\$4.00	\$36	\$22	\$20	\$31	\$28
Nexus Fee of:	\$6.00	\$33	\$21	\$19	\$28	\$27
Nexus Fee of:	\$8.00	\$29	\$21	\$19	\$24	\$27
Nexus Fee of:	\$10.00	\$26	\$20	\$18	\$21	\$26
Nexus Fee of:	\$15.00	\$18	\$19	\$17	\$12	\$25
Nexus Fee of:	\$20.00	\$9	\$18	\$16	\$4	\$24
Percent Reduction in Re	esidual					
Land Value						
Nexus Fee of:	\$2.00	7.9%	2.2%	2.4%	9.0%	1.7%
Nexus Fee of:	\$4.00	15.8%	4.4%	4.8%	18.0%	3 5%
Nexus Fee of:	\$6.00	23.7%	6.7%	7.2%	27.0%	5.2%
Nexus Fee of:	\$8.00	31.6%	8.9%	9.7%	35.9%	6.9%
Nexus Fee of:	\$10.00	39.4%	11.1%	12.1%	44.9%	8.7%
Nexus Fee of:	\$15.00	59.2%	16.7%	18.1%	67.4%	13.0%
Nexus Fee of:	\$20.00	78.9%	22.2%	24.2%	89.9%	17.3%

Source: David Paul Rosen & Associates

Table 22 VacantCommercial and Industrial Land Sales City of Long Beach January 1, 2002 - February 15, 2003

No.	Zip Code	Address	Parcel No.	Sale Date	Zoning	Total Sales Price	Lot Size (Sq. Ft.)	Price Per Sq. Ft.
Comm	iercial							
1	N/A	N/A	7432-021-016	2/13/03	СН	\$405,000	9.992	\$40.53
2	90805	5564 Atlantic Ave.	7127-009-007	2/13/03	со	\$104,545	4,400	\$23.76
3	9 0805	4835 Long Beach Blvd.	7133-032-019	1/28/02	CC	\$229,000	4.207	\$54.43
4	90806	100 W. Willow St.	7205-006-023	2/11/02	CC	\$920,000	23.522	\$39.11
5	90802	2 8th Place	7265-008-139	8/30/02	PD1	\$444,000	14,296	\$31.06
6	90813	1760 Long Beach Blvd.	7269-020-041	6/28/02	PD29	\$176,000	12,149	\$14.49
7	90813	225 E. 12th St.	7273-003-013	1/29/03	PD29	\$115,000	8,500	\$13.53
8	N/A	N/A.	7274-013-007	1/28/03	CO	\$165,000	5,998	\$27.51
9	N/A	N/A	7281-014-008	11/15/02	PD30	\$89,000	3,746	\$23.76
10	N/A	N/A	7432-001-018	7/3/02	CH	\$59,000	3,899	\$15.13
			Bottom of Range					\$13.53
			Top of Range					\$54.43
			Average					\$28.33
			Median					\$25.63
Industr	ial				· · · _ · <u>- · - · ·</u>		<u> </u>	
1	90807	2121 E. Cover St.	7149-004-028	6/21/02	IM	\$386,500	32,200	\$12.00
2	N/A	N/A	7429-003-026	4/23/02	IM	\$70,000	3,128	\$22.38
3	N/A	N/A	7429-021-021,-022	5/24/02	IG	\$60,000	6,500	\$9.23
4	N/A	N/A	7429-026-015	2/6/03	IG	\$200,000	3,128	\$63.94
5	90813	1700 Sante Fe Ave.	7432-007-021	2/1/02	IM	\$950,000	14,988	\$63.38
			Bottom of Range					\$9.23
			Top of Range					\$63.94
			Average					\$34.19
			Median					\$22.38

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Source: Dataquick Information Systems; David Paul Rosen & Associates

Table 23 Vacant Commercial and Planned Development Zoned Land Appraisal Market Comparables and Value Estimates City of Long Beach

No.	Location	Sale Date	Zoning	Total Sales Price/Value	*Lot Size (Sq. Ft.)	Price Per Sq. Ft.
Appr	aisal For: 1970 and 2085 Atlantic Ave. (1)					
	Market Comparables:					
1	S. Side PCH; 150' W. of Atlantic Ave.	Mar-00	CHW	\$60,000	5 100	\$10.01
2	NEC Atlantic Ave./Willow St.	Oct-04	CG	\$675,000	34 811	\$10.31
3	N. Side Anaheim St.; 90' W. of Raymond Ave.	lan-02	co	\$202 500	12 150	\$15.55
4	N. Side Anaheim St.; 45' W. of Raymond Ave.	Feb-02	co	\$115,000	6.075	\$18.07
5	E. Side Long Beach Blvd.; 40' N. of Esther St.	Aug-02	PD29	\$176.000	12,140	\$14.50
6	SEC Locust Ave./14th St.	Jun-02	PD29	\$684,000	51,230	\$13.35
	Estimate of Value, 2085 Atlantic Ave.		PD25	\$255.000	15.000	\$17.00
	Estimate of Value, 1970 Atlantic Ave.		PD25	\$96,000	6,000	\$16.00
Appra	aisal For: 1865, 1908 and 1910 Long Beach Blvd. a	und 333 E. Day	/man St.(2)			
Mark	et Comparables:					
1	101 W. Pacific Coast Hwy.	Listing	СН	\$200.000	19 200	¢21.00
2	1760 Long Beach Blvd.	6/28/02	PD	\$399,000	18,300	\$21.80
3	1517 Lonb Beach Blvd.	Listing	PD	\$176,000	12,149	\$14.49
4	2086 Lewis Avenue	3/13/02	R1	\$52 500	14,990 5 300	\$16.00
5	1242 E. Pacific Coast Hwy.	11/29/01	СН	\$1 500 000	50 547	\$9.91 \$70.69
6	3000 E. Pacific Coast Hwy,	2/28/02	Сн	\$275,000	11 240	\$29.00
7	3565 N. Los Coyotes Diag.	2/7/02	CCA	\$532,000	21 570	\$24.47
8	5033-71 Long Beach Blvd,	2/4/02	CCA	\$3,650,000	21,370	\$24.00
9	413 E. Sunset Street	5/10/02	R1	\$3,830,000 \$45,000	2,02,334	\$18.02
Fetime	ate of Value, 1908 and 1910 Long Boach Blud					
Estima	ate of Value, 1865 Long Beach Blvd. and 333 E. Da	yman St.	PD29 PD29	\$200,000 \$750.000	13,500 43,650	\$14.81 \$17.18
Land \	Value Study for Parcels in West Gateway District (3)			,	
Parcel	s:	5)				
1	N. Side of W. 3rd b/w Golden Ave. and Maine Av	ve.	PD30	\$945.000	47 250	\$20.00
2	N. Side of W. 3rd b/w Maine Ave. and Daisy Ave		PD30	\$992.250	47 250	\$20.00
3	W. Side of Daisy Ave., S. of W. 4th St.		PD30	\$405.000	22,500	\$21.00
4	E. Side of Daisy Ave., S. of W. 4th St.		PD30	\$540,000	30,000	\$18.00
5	E. Side of Daisy Ave., N. of W. 3rd St.		PD30	\$345,000	15,000	\$73.00
6	NEC Magnolia Ave./W. 3rd St.		PD30	\$328 125	13,000	\$25.00
7	NWC Magnolia Ave./W. 3rd St.		PD30	\$803,400	30,900	\$25.00
8	NWC Chestnut Ave./W. 3rd St.		PD30	\$405,000	15 000	\$20.00
9	B/w Maine Ave/Daisy Ave./W. 3rd St./W. Broadw	av	PD30	\$2,608,200	13,000	\$27.00
10	B/w Magnolia Ave/Daisy Ave./W, 3rd St./W, Broa	∽, dwav	PD30	\$2,000,200	122 400	\$23.00
11	B/w Magnolia Ave/Chestnut Ave./W. 3rd St./W. B	roadway	PD30	\$2,782,000	111 290	\$24.00
12	NWC W. Broadway/Cedar Ave.	, out muy	PD30	\$675,000	22,500	\$30.00
Total//	Average			\$13,766,575	590,605	\$23.31
Restric	ted Appraisal Study, Properties in American Mark	etplace Projec	t Area (4)			
Proper	ties:	. ,				
1	217 E. 12th St.			\$170,000	· 8,500	\$20.00
2	225 E. 12th St.			\$170,000	8,500	\$20.00
3	1223-27 Long Beach Blvd.			\$450,000	22,560	\$19.95
4	1095 Long Beach Blvd.			\$250.000	12,650	\$19.76
5	1112-1130 Locust Ave.			\$445.000	22,200	\$20.05
6	923-927 Long Beach Blvd.			\$300,000	15,000	\$20.00
otal/A	verage			\$1,785,000	89,410	\$19.96

(1) Appraisal by R.P. Laurain & Associates, date of value March 28, 2003.

(2) Appraisal by Ryon Associates, date of value October 3, 2002.

(3) Land value study by R.P. Laurain & Associates, date of value March 1, 2002.

(4) Restricted appraisal study by R.P. Laurain & Associates, date of value January 27, 2003.

Source: City of Long Beach; David Paul Rosen & Associates

C. Rent and Return Analysis

1. Methodology and Assumptions

DRA calculated the increase in rents, or decrease in the rate of return on investor equity, required to finance the fee at current market terms for both debt and equity financing. By applying the average financing cost to the fee at illustrative fee levels, we determine the rent increase necessary to keep returns to developers and investors constant. Alternatively, we calculate the decrease in the rate of return on equity to investors assuming rents remain constant.

Total development costs for non-residential construction are typically financed through a combination of debt and equity financing. We have assumed a loan to value ratio of 60 percent for the first position mortgage. Current interest rates on debt financing are approximately 8 percent or less for commercial real estate mortgages. We expect rates on debt to remain constant in the short term Actions by the Federal Reserve are most effective in influencing short-term interest rates. Commercial mortgage rates are generally more sensitive than 30-year home mortgage rates, because of their shorter terms of 10 to 15 years.

For this analysis, we have assumed that equity would comprise the other 40 percent of sources used to finance total development costs. We have provided for a 15 percent return on equity, which is higher than current returns on real estate investment trusts (REITs). Based on DRA's substantial experience with REITs, recent returns are generally in the 12 percent to 14 percent range. The Wall Street Journal recently reported actual REIT returns in the 12 percent range before losses.

The average financing cost of capital based on an 8 percent interest rate for a 60 percent loan-to-value mortgage and a 15 percent return on equity for the remaining 40 percent of sources is approximately 11 percent.⁶ To be conservative and allow for fluctuations in returns on debt and equity, we have assumed an average financing cost of 12 percent.

After calculating the increase in rents required to finance the commercial development impact fee at illustrative levels, we calculated the increase in rents as a percentage of current market rents. We use the percentage increase in rents required to finance the as a primary measure of the magnitude of the impact of the fee. As a secondary measure, our evaluation also examines the fee at alternative levels as a percentage of total development costs for each land use.

The income and cost assumptions for each prototype are the same used in the land residual analysis above. Total development costs were estimated by adding the construction costs for each prototype from Table 19 to the market residual land values from Table 20.

⁶ To the extent that mezzanine debt is used to finance a portion of the development cost, the actual cost of capital will be lower than estimated. Interest rates on mezzanine debt are typically in between rates on first position debt and equity.

2. Findings

The development cost, rent and return analyses were performed on a per square foot basis for each land use and for illustrative fee levels ranging from \$2.00 per square foot to \$10.00 per square foot. Table 24 summarizes the findings of the rent analysis. Table 25 summarizes the findings of the return analysis.

Table 24 DEVELOPMENT COST AND RENT ANALYSIS CITY OF LONG BEACH COMMERCIAL DEVELOPMENT IMPACT FEE ECONOMIC IMPACT ANALYSIS

-	Office	Big Box Retail	Community Retail	Hotel	Light Manufacturing
DEVELOPMENT COST ANALYSIS					
Development Cost Per SF, Excluding Land	\$224	\$110	\$145	\$197	\$115
Plus: Land Cost Per SF	\$15	\$15	\$15	\$15	\$12
Total Development Cost Per SF	\$239	\$125	\$160	\$212	\$127
Linkage Fee As % of Development Cost					
At a Per Square Foot Fee of:					
\$2.00	0.84%	1.60%	1.25%	0.94%	1.57%
\$4.00	1.67%	3.20%	2.50%	1.89%	3.15%
\$6.00	2.51%	4.80%	3.75%	2.83%	4.72%
\$8.00	3.35%	6.40%	5.00%	3.77%	6.30%
\$10.00	4.18%	8.00%	6.25%	4.72%	7.87%
\$15.00	6.28%	12.00%	9.38%	7.08%	11.81%
\$20.00	8.37%	16.00%	12.50%	9.43%	15.75%
RENT ANALYSIS					
Annual Gross Rent/Income Per Sq. Ft.	\$24.00	\$20.00	\$26.00	\$64.73	\$23.00
Average Occupancy Rate	95%	100%	95%	70%	100%
Increase in Annual Rent Per SF Required to Finan Linkage Fee Per Square Foot of (2) :	ice				
\$2.00	\$0.16	\$0.15	\$0,16	\$0.22	\$0.15
\$4.00	\$0.32	\$0.30	\$0.32	\$0.43	\$0.30
\$6.00	\$0.48	\$0.46	\$0.48	\$0.65	\$0.46
\$8.00	\$0.64	\$0.61	\$0.64	\$0.87	\$0.61
\$10.00	\$0.80	\$0.76	\$0.80	\$1.09	\$0.76
\$15.00	\$1.20	\$1.14	\$1.20	\$1.63	\$1.14
\$20.00	\$1.60	\$1.52	\$1.60	\$2.17	\$1.52
% Increase in Annual Rent Per SF					
at Linkage Fee Per Square Foot of:					
\$2.00	0.67%	0.76%	0.62%	0.34%	0.66%
\$4.00	1.33%	1.52%	1.23%	0.67%	1.32%
\$6.00	2.00%	2.28%	1.85%	1.01%	1.98%
\$8.00	2.67%	3.04%	2.46%	1.34%	2.64%
\$10.00	3.33%	3.80%	3.08%	1.68%	3.30%
\$15.00	5.00%	5.70%	4.62%	2.52%	4.96%
\$20.00	6.67%	7.60%	6.15%	3.35%	<u>,</u> 6.61%
(1) Financing assumptions:					
Debt:					
Loan to Value Ratio	60.00%				
Debt Interest Rate	8.00%				
cyuity	10 0001				
70 OF Develop. Costs	40.00%				
	/.00%				•
Current Average Financing Cost	/.60%				
(2) Equals linkage fee per square feet times assume	/.0U%	t of carital "	idad by		
(~) Equals minage lee per square loot times assure	ieu average cos	n or capital div	viuea by		

occupancy rate.

Source: David Paul Rosen & Associates

Table 25 RATE OF RETURN ANALYSIS CITY OF LONG BEACH COMMERCIAL DEVELOPMENT IMPACT FEE ECONOMIC IMPACT ANALYSIS

2003

		Big Box	Community		Light
	Office	Retail	Retail	Hotel	Manufacturing
RETURN ANALYSIS					
Original Equity Investment Per Sq. Ft. (1)	\$95.60	\$50.00	\$64.00	\$84.80	\$50.80
Increase in Equity Investment Per Sq. Ft.					
at Development Impact Fee Per Square Foo	t of: (2)				
\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00
\$4.00	\$4.00	\$4.00	\$4.00	\$4.00	\$4.00
\$6.00	\$6.00	\$6.00	\$6.00	\$6.00	\$6.00
\$8.00	\$8.00	\$8.00	\$8.00	\$8.00	\$8.00
\$10.00	\$10.00	\$10.00	\$10.00	\$10.00	\$10.00
\$15.00	\$15.00	\$15.00	\$15,00	\$15.00	\$15.00
\$20.00	\$20.00	\$20.00	\$20.00	\$20.00	\$20.00
Assumed Equity Yield:	8.50%	9.00%	9.00%	9.00%	9.00%
Original Return on Equity Per Sq. Ft. (3)	\$8.13	\$4.50	\$5.76	\$7.63	\$4.57
Revised Rate of Return on Equity					
at Development Impact Fee Per Square Foot	of: (4)				
\$2.00	8.33%	8.65%	8.73%	8.79%	8.66%
\$4.00	8.16%	8.33%	8.47%	8.59%	8.34%
\$6.00	8.00%	8.04%	8.23%	8.41%	8.05%
\$8.00	7.84%	7.76%	8.00%	8.22%	7.78%
\$10.00	7.70%	7.50%	7.78%	8.05%	7.52%
\$15.00	7.35%	6.92%	7.29%	7.65%	6.95%
\$20.00	7.03%	6.43%	6.86%	7.28%	6.46%
Decrease (in Basis Points) in Rate of Return o	n Equity				
at Development Impact Fee Per Square Foot	of:				
\$2.00	17	35	27	21	34
\$4.00	34	67	53	41	66
\$6.00	50	96	77	59	95
. \$8.00	66	124	100	78	122
\$10.00	80	150	122	95	148
\$15.00	115	208	171	135	205
\$20.00	147	257	214	172	254
Percentage Decrease in Rate of Return on Equ	uity				
at Development Impact Fee Per Square Foot	of:				
\$2.00	2.05%	3.85%	3.03%	2 30%	3 70%
\$4.00	4.02%	7.41%	5.88%	4 50%	7 30%
\$6.00	5.91%	10.71%	8 57%	6.61%	10 56%
\$8.00	7.72%	13,79%	11.11%	8.67%	13 61%
\$10.00	9.47%	16.67%	13.51%	10 55%	16.45%
\$15.00	13,56%	23.08%	18 99%	15.03%	22 800/
\$20.00	17.30%	28.57%	23.81%	19.08%	28.25%

(1) Equals assumed equity yield multiplied by total development cost per square foot (without fee).

(2) Assumes development impact fee is financed 100% through equity, since imposition of fee does not increase debt-carrying capacity of development.

(3) Equals original return on equity per square foot multiplied by assumed equity yield.

(4) Equals original return on equity per square foot divided by the sum of original equity investment per square foot plus increase in equity investment per square foot.

Source: David Paul Rosen & Associates

Appendix A CITY OF LONG BEACH ACTIVE MAJOR DEVELOPMENT PROJECTS (1)

	Address/Description	Dwelling Units	Office SF	Retail/ Commercial SF	Hotel Rooms	Industrial/ SF
ENTI	TLEMENTS GRANTED					
1	201 The Promenade	·			162	
2	517 E. 1st St.				69	
3	5950 Spring Street 6 Stories		179,000			
4	23 4th Place Condominiums	10				
5	2702 Long Beach Blvd. Medical building		105,800			
6	3400 Long Beach Retail/fast food			8,500		
7	829 Pine Ave. Convert commercial bldg. to lofts	16				
8	5400 Paramount Self-storage					71,536
9	6897 Paramount Self-storage/RV parking					106,636
10	1570-1598 Long Beach Blvd. Commercial building			11, 984		
11	835 Locust Avenue Condominiums (adaptive reuse of Masonic Temple and new construction)	82				

Appendix A CITY OF LONG BEACH ACTIVE MAJOR DEVELOPMENT PROJECTS (1)

	Address/Description	Dwelling Units	Office SF	Retail/ Commercial SF	Hotel Rooms	Industrial/ SF
12	3570 Atlantic Ave. Drug store/drive-thru			11,550		
13	2005-2011 Long Beach Blvd. Commercial building			15,000	-	
14	2323 South St. Self-storage					75,100
15	201-205 E. Broadwaty Conversion of Insurance Exchange Bldg.	11				
16	1690-1694 Cota Ave. Industrial building					6,356
17	2001 River Ave. Transitional housing	201				
18	3050 Orange Ave. Self-storage expansion					55,000
19	2760 Atlantic Ave. Medical office		7,200			
20	4085 Atlantic Retail center		-	5,800		
21	6375 Paramount Blvd. Expansion of industrial facility			*		40,000
22	2210 Gaylord St. Industrial building					13,700
Appendix A CITY OF LONG BEACH ACTIVE MAJOR DEVELOPMENT PROJECTS (1)

	Address/Description	Dwelling Units	Office SF	Retail/ Commercial SF	Hotel Rooms	Industrial/
PRELI	MINARY					
23	2080 Obispo Ave. Single-family homes	106				
24	248 Broadway Units over commercial	48				
25	1601 Pacific Ave. Apartments w/ density bonus	42				
26	6000 Loynes Condominiums	35				
27	120 Studebaker Shopping Center			N/A		
28	3918-3926 Long Beach Blvd. Commercial/fast food	×		8,886		
29	712 W. Baker St. Self-storage					519,135
30	6400 Pacific Coast Hwy. Residential development	302				
31	6400 Pacific Coast Hwy. Hotel			,,	199	
32	1422 W. Willow St. Shopping center			5,750		
33	3401 Golden Ave. Self-storage					26,000
34	4101 Bellflower Blvd. Commercial building			9,000		Page 3

Appendix A CITY OF LONG BEACH ACTIVE MAJOR DEVELOPMENT PROJECTS (1)

	Address/Description	Dwelling Units	Office SF	Retail/ Commercial SF	Hotel Rooms	Industrial/
				· · · ·		
35	225 E. 12th St. Residential building	5.				
36	1000 E. Spring St. Sports park					
37	200 E. Broadway 5 story mixed use	200				
38	640 Long Beach Blvd. McDonald's/Walgreen's					
39	200 Long Beach Blvd. Artist's complex					
40	2200 W. Pacific Coast Hwy. Warehouse					
41	2201 Lakewood Retail/office					
42	110 West Ocean Blvd. Historic rehab./mixed use	45				
43	3339 E. Anaheim St. Walgreen's					
44	901 E. Artesia Shopping center			.,		
45	25 S. Chestnut St. Mixed-use high rise (Camden)					
46	6108 Atlantic Ave. Commercial center					

Appendix A CITY OF LONG BEACH ACTIVE MAJOR DEVELOPMENT PROJECTS (1)

Address/Description	Dwelling Units	Office SF	Retail/ Commercial SF	Hotel Rooms	Industrial/ SF
Entitlements Granted Subtotal	320	292,000	52,834	231	368,328
Preliminary Subtotal	783	0	23,636	199	545,135
TOTAL	1,103	292,000	76,470	430	913.463
Reuse of Existing Bldgs.	154	0	0	0	0

(1) Excludes projects already under construction.

Source: City of Long Beach Major Projects list, March 30, 2003; David Paul Rosen & Associates.

APPENDIX B									
	SURVEY OF SPECIAL DEVELOPMENT IMPACT FEES CHARGED BY AREA CITIES AND COUNTIES BY LAND USE Data as of 2/18/03								
CITY	RETAIL	RESIDENTIAL	OFFICE Class A Constr	HOTEL	RESTAURANT	WAREHOUSE/			
Long Beach	1. Trans & Improv Fee: \$3.00 psf 2. Sewer Capacity Fee: \$56.09 per 'equivalent fixture unit (EFU)'; \$2,181 3. Art in Public Places Fee: 1% of constr value & land cost for any Rede vassisted project. Note: Does not apply if assisted by Hg Setaside funds 4. School Dist Fee; \$0.34 psf Note; Downtown comm'l fees are higher TOTAL COSTS 50,000 SF PROJECT; \$199,831	1. Trans & Improv Fee: \$1,125 pdu Senkors: \$684 pdu 2nd Unit: \$664 pdu 2. Parks & Rec Fee: SFU: \$2,260 pdu MFU: \$2,070 pdu 2. dUnit: \$1,522 pdu 3. Sewer Capacity Fee: \$66.09 per "equivalent fixture unit (EFU)" 4. Bluff Park Beach Access Fee: 1/2 of 1% of construction value 5. Art in Public Places Fee: 1% of constr value & land cost for any Redev assisted project. Note: Does not apply if assisted by Hsg Setaside funds 6. School Dist Fee: \$2.14 pst	1. Trans & Improv Fee: \$2.00 psf 2. Saver Capacity Fee: \$66.09 per "equivalent fixture unit (EFU)": \$7,733 3. Art In Public Places Fee: 1% of constr value & land cost for any Redev assisted project. Note: Does not apply if assisted by Hig Sataside Funds 4. School Dist Fee: \$.34 psf TOTAL COSTS \$5,000 SF PROJECT; \$161,633 4. Construction Tay:	1. Trans & Improv Fee: \$750 per guest room 2. Sewer Capacity Fee: \$56.09 per "equivalent fixture unit (EFU)"; \$55,243 3. Art in Public Places Fee: 1% of constr value & land cost for any Redev assisted project. Note: Does not apply if assisted by HgS Selavide funds. 4. School Dist Fee: \$.34 psf TOTAL COSTS \$0,000 SF PROJECT: \$171,152	1. Sewer Capacity Fae: \$66.09 per "equivalent fixture unit (EFU)": \$10,640 2. Art in Public Places Fee: 1% of constr value and land cost for any Redev assisted project. Note: Does not apply if assisted by Hsg Setaside funds. 3. School Dist Fee: \$.34 psf TOTAL COSTS 50,000 SF PROJECT: \$74,891	1. Trans & Improv Fee: \$1.10 psf (Seif-storage fee: \$0.29 psf 2. Sewer Capacity Fee: \$66.09 per "equivalent fixture unit (EFU)": \$2,677 3. Art in Public Places Fee: 1% of constr value & land cost for any Redev assisted project. Note: Does not apply if assisted by Hsg Sotaside funds. 4. School Dist Fee: \$.34 psf TOTAL COSTS \$0,000 SF PROJECT; \$90,477			
<u>Pasadena</u> City has Inclusionary Housing Ordinance	1.92% of valuation 2. Commercial Fee: 32.93 psf. for 2000+ sf 3. Art In Public Places: 1% of valuation depending on type, location & size. 4. School Dist Fee: 5. 32 psf. (\$.32 psf. for auto repair) TOTAL COSTS 50,000 SF PROJECT: \$272,800.	1. Kesturnitari impact res: 3756 per dwelling unit 2. Construction Tex: 1.92% of cons valuation 3. Inclusionary Hsg Fee; city divided into 4 areas; fee charged for res only, both rental & for sale hsg, and for 104 units only; 15% affordable housing or payment of in lieu fee: <u>Rental</u> ; Area A, amount determined case by case; Area B, no fee; Area D, 10-49 units \$10 psf; 50+ units \$10 psf; 50+ 10-49 units \$1 psf; Area D, 10-49 units \$1 psf; Area D, 10-49 units \$10 psf; 50+ units \$10 psf; 50+ 0.50+ units \$10 psf; 50+ 0.50+	1. Construction 1ax: 1.92% of valuation 2. Commercial Fee: S.2.93 psf. for 2000+ sf 3. Art in Public Places: 1% of valuation depending on type, location & size. 4. School Dist Fee: \$.33 psf. (\$.32 psf. for auto repair) TOTAL COSTS 50,000 SF PROJECT; \$320.680	1. Construction Tax: 1.92% of valuation 2. Commercial Fee: \$2.93 psf. for 2000+ sf 3. Art in Public Places: 1% of valuation depending on type, location & size. 4. School Dist Fee: \$.33 psf. (\$.32 psf. for auto repair) TOTAL COSTS 50,000 SF PROJECT; 5155 720	1. Construction Tax: 1. 20% of valuation 2. Commercial Fee: \$2.29 psf. for 20004 sf 3. Art in Public Places: 1% of valuation depending on type, location & size. 4. School Dist Fee: \$.33 psf. (\$.32 psf. for auto repair) TOTAL COSTS 50,000 SF PROJECT; 1255 cf.	1. Construction Tax: 1.92% of valuation 2. Commercial Fee: \$2.93 psf. for 2000+ sf 3. Art in Public Places: 1% of valuation depending on type, location & size. 4. School Dist Fee: \$.33 psf. (\$.32 psf. for auto repair) TOTAL COSTS 50.000 SF PROJECT;			
·		\$7 psf 3. Art In Public Places: 1% of valuation depending on type, location & size 4. School Dist. Fee: \$2.05 psf for 500+ sf only			#ALG, <u>979</u>	32314 <u>80</u> _			

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	APPENDIX B							
SURVEY OF SPECIAL DEVELOPMENT IMPACT FEES CHARGED BY AREA CITIES AND COUNTIES								
			BYLANDI			1123		
			Data as of 2/1	8/02				
i			Data as VI ZI I	0/03				
			OFFICE	1				
CITY	RETAIL	RESIDENTIAL	Class A Constr	HOTEL	RESTAURANT	LIGHT MFG		
	1. Central City Specific Plan transportation fee:	1. Residential Impact Fee;	1. Central City Specific	1. Central City Specific	1. Central City Specific	1. Central City Specific		
	\$17,000 per 'trip.' Exempts	2. Parks Impact Fee for	\$17,000 per 'trip.' Exempts	\$17,000 per 'trip.' Exempts	\$17,000 per 'trip.' Exempts	Plan transportation fee: \$17,000 per 'trip.' Exempts		
105	serving developments.	subdivisions & condos (Quimby):	all residential & local-	all residential & local-	ali residential & local-	all residential & local-		
Annalaa	2. Warner Center Spec.	varies depending on loc	2. Warner Center Spec.	2. Warner Center Spec.	2. Warner Center Spec.	serving developments.		
Angeles	'trip.' Exempts SFD &	in 30 zones; developer can provide land in	Plan trans fee: \$4000 per	Plan trans fee: \$4000 per	Plan trans fee: \$4000 per	Plan trans fee: \$4000 per		
(City)	local-serving development.	lieu of fee: Range:	local-serving development.	local-serving development.	local-serving development.	'trip.' Exempts SFD &		
(Only)	Spec Plan: \$2000 per	\$992 pdu - \$6,243 pdu 3.Parka Impact Fee	3. Ventura Bivd Corridor Spec Plap: \$2000 per	3. Ventura Blvd Corridor	3. Ventura Blvd Corridor	3. Ventura Blvd Corridor		
	'trip.' Exempts SFD &	(non-Quimby): \$200 pdu	'trip.' Exempts SFD &	'trip.' Exempts SFD &	'trip.' Exempts SFD &	Spec Plan: \$2000 per		
	4. West L.A. Traffic Impact	4. Warner Center Specific Plan Transportation Fee	local-serving development.	local-serving development.	local-serving development,	local-serving development.		
	Mitigation Program: \$3000	\$4000 per 'trip.' Exempts	Mitigation Program: \$3000	Mitigation Program: \$3000	4. West L.A. Traffic Impact Mitigation Program: \$3000	4. West L.A. Traffic Impact Mitigation Program: \$3000		
	local-serving development	SFD & local-serving	per 'trip.' Exempts SFD &	per 'trip.' Exempts SFD &	per 'trip.' Exempts SFD &	per 'trip.' Exempts SFD &		
	5. L.A. Coastal Corridor	5. Ventura Blvd. Corridor	5. L.A. Coastal Corridor	5. L.A. Coastal Corridor	local-serving development. 5. L.A. Coastal Corridor	local-serving development.		
	Spec Plan: \$5000 per 'trip.' Exempts SED &	Spec Plan trans fee: \$2000 per 'trip ' Everypte	Spec Plan: \$5000 per	Spec Plan: \$5000 per	Spec Plan: \$5000 per	Spec Plan: \$5000 per		
	local-serving development.	SFD & local-serving	local-serving development.	local-serving development.	('trip.' Exempts SFD &	'trip.' Exempts SFD &		
1	6. Art in Public Places -	development. 6 West A Traffic	6. Art in Public Places -	6. Art In Public Places -	6. Art in Public Places -	6. Art in Public Places -		
	over \$500,000 in value:	Impact Mitigation Prog.:	over \$500,000 in value:	over \$500,000 in value;	applies only to projects over \$500,000 in value:	applies only to projects		
	Fee: 1% of value or \$.39 to \$1.57 psf	\$3000 per 'trip.' Exempts	Fee: 1% of value or	Fee: 1% of value or	Fee: 1% of value or	Fee: 1% of value or		
	7. School Dist. Fee as of 9/25/02.	development.	7. School Dist. Fee as of 9/25/02.	3.39 to \$1.57 pst 7. School Dist. Fee as of 9/25/02	\$.39 to \$1.57 psf	\$.39 to \$1.57 psf		
	Request to	7. L.A. Coastal Corridor	Request to	Request to	Request to	Request to		
	Commercial: \$.33 psf.	'trip.' Exempts SFD &	Commercial; \$.33 psf.	Commercial: \$.33 psf.	Increase on 12/9/02:	Increase on 12/9/02:		
1	Pkg Structure: \$.09 psf	local-serving development.	Pkg Structure: \$.09 psf	Pkg Structure: \$.09 psf	Pkg Structure: \$.09 psf	Pkg Structure: \$.09 psf		
		applies only to projects						
	TOTAL COSTS	over \$500,000.	TOTAL COSTS	TOTAL COSTS	TOTAL COSTS	TOTAL COSTS		
	\$56,500 plus transportation fees	\$.39 or \$1.57 psf	\$70,500 SF PROJECT: \$70,500, plus transportation fees	\$82,500 plus "per trip" fees	50,000 SF PROJECT: \$83,500 plus transportation fees	50,000 SF PROJECT:		
	\$61.000 w/nkg structure	9. School Dist. Fee as	STE 000 w/ska of sectors	607 000	ATTERT RIGHT AND REAL AND IN THE REAL	vouvov. pius irgiisportatioir tees		
	1. Energy Check Fee/	1. Strong Motion Fee:	1. Energy Check Feel	1 Energy Chack Feel	\$88,000 w/pkg structure	\$65.000 w/pkg structure		
	Conservation (Title 24):	\$1 per \$1000 of con-	Conservation (Title 24):	Conservation (Title 24):	Conservation (Title 24):	1. Energy Check Fee/ Conservation (Title 24):		
Glendale	2. Disabled Access Fee	Struction cost. 2. Energy Check Fee/	10% of Permit Fee.	10% of Permit Fee.	10% of Permit Fee.	10% of Permit Fee.		
<u></u>	(Title 24): 10% of Permit	Conservation (Title 24):	(Title 24): 10% of Permit	(Title 24): 10% of Permit	(Title 24): 10% of Permit	2. Disabled Access Fee		
	3. School Fee: \$.34 psf	10% of Permit Fee. 3.Disabled Access Fee	Fee. 3. School Fee: \$ 34 nsf	Fee. School Fee: \$ 34 pcf	Fee	Fee		
		(Title 24): 10% of Permit Fee.		eeneer ee. e. ov par	13. 3Chool Fee: \$.34 pst	3. School Fee: \$.34 [st		
	TOTAL COSTS	14. School Fee: \$2.14 pst	TOTAL COSTS	TOTAL COSTS	TOTAL COSTS			
	50,000 SF PROJECT:		50,000 SF PROJECT:	50,000 SF PROJECT:	50,000 SF PROJECT:	50.000 SF PROJECT:		
	********		\$52.200	\$50,780	\$68.300	\$34,600		
	1. School Fee: \$.31 psf	1. Affordable Housing	1. Office Mitigation Feas	1. School Fee: \$ 31 pet	1 School Foot & 24 pot			
		Obligation for MF	(fees allocated to		1. School Fee. \$.37 pst	1. School Fee: \$.31 pst		
		(a) \$6.14 psi for apartments	affordable housing & park development)					
<u>Santa</u>		(b) \$11.01 psf for condos	(a) \$3.84 psf for office					
Monica		3. School Fee: \$1.93 psf	(b) \$8.53 psf for office space					
	ļ		over 15,000 sf					
			2. acnool ree: \$.31 psi			<u>}</u>		
	TOTAL COSTS		TOTAL COSTS	TOTAL COSTS	TOTAL COSTS	TOTAL COSTS		
	\$15.500		\$442,000	\$15.500	50,000 SF PROJECT: \$15.500	50,000 SF PROJECT:		
	1	1	1			ALL LAND		

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APPENDIX B										
	SURVEY OF SPECIAL DEVELOPMENT IMPACT FEES CHARGED BY AREA CITIES AND COUNTIES									
	BY LAND USE									
			Data as of 2/18	B/03						
CITY	RETAN	PESIDENTIAL	OFFICE Class A Constr	NOTE		WAREHOUSE/				
<u>Carson</u>	1. School Dist. Fee as of 9/25/02. Request to increase on 12/9/02: Commercial: \$.33 psf. Pkg Structure: \$.09 psf	1. Parks Fee (Quilmby Act): SF Detsched: \$4,218 pdu SF Attached: \$4,161 pdu MF 2-4 units: \$3,730 pdu MF 5-6 units: \$3,730 pdu	1. School Dist. Fee as of 9/25/02. Request to increase on 12/9/02: Commercial: \$.33 psf. Pkg Structure: \$.09 psf	1. School Dist, Fee as of 9/25/02. Request to Increase on 12/9/02: Commercial: 5.33 psf. Pkg Structure: \$.09 psf	A School Dist. Fee as of 9/25/02. Request to Increase on 12/9/02: \$.33 psf	1. School Dist. Fee as of 9/25/02. Request to Increase on 12/9/02: \$.33 psf (Self-storage: \$.27 psf)				
	TOTAL COST 50,000 SF PROJECT: \$18,500	2. School Dist, Fee as of 9/25/02. Request to Increase 10/8/02: \$2.05 psf	TOTAL COST 50,000 SF PROJECT: \$16,500	TOTAL COST 50,000 SF PROJECT: 516,500	TOTAL COSTS	TOTAL COSTS 50,000 SF PROJECT:				
	\$21,000 w/pkg.structure		\$21.000 w/pkg_structure	\$21.000 w/pkg structure	50,000 SF PROJECT: \$16.500	<u>\$13.500</u> SELF STORAGE				
<u>Santa Ana</u>	1. Trans Improvement Fee: Range: \$1.81 to \$5.50 psf 2. Trans. Corridor Fee: \$3.30 psf for Foothil-Eastern 3. Grange Co. Sanitation Fee: Low Demand: \$1.11 psf Aver Demand (office): \$.675 psf High Demand (office): \$.675 psf 4. Sewer Impact Fee: Basic fee: \$65.85 (multiplied by no. of units depending on usage (laundromat, carwash) 5. Storm Drainage Assmt Fee: Range from \$2875.50 to \$5340.98 per acte 6. Fire Facilitles Fee (comm'i only): \$.043 psf 7. School Fee: \$.33 psf	1. Trans. Improvement Fee: For 5+ units only Fee varies by 6 designated areas -SFD: \$1.80 psf living area -MF: \$1.10 psf living area 2. Trans. Corridor Fee: -SFD: \$2910 pdu Foothill -SFD: \$2910 pdu Foothill -MF: \$1694 pdu Foothill -MF: \$1695 pdu San Joaquin 3. Orange Co Sanitation Fee: Residential varies based on bedroom size -SFD: \$1130 - \$2350 pdu -MF: \$1580 - \$1965 pdu 4. Sewer Impact Fee: Varies depending on water usage. -Commercial & Residential: Besic fee: \$65.85. However, Besic fee is multipied by # of "fixture units" based on usage, e.g., car wash is 80 usite \$ 56	1. Trans Improvement Fee: Range: \$1.81 to \$5.50 psf 2. Trans. Corridor Fee: \$3.30 psf for Foothill-Eastern \$3.63 psf for San Joaquin 3. Orange Co. Sanitation Fee: Low Demend: \$.11 psf Aver Demand (office); \$.675 psf High Demand (office); \$.605 psf High Demand (office); \$.675 psf High Demand Demands; \$.610 psf High Demand Demands; \$.610 psf High Demands; \$.610 psf	1. Trans Improvement Fee: Range: \$1.81 to \$5.50 psf 2. Trans. Corridor Fee: \$3.30 psf for Foothill-Eastern \$3.63 psf for San Joequin 3. Orange Co. Sanitation Fee: Low Demand: \$1 1 psf Aver Demand (office); \$.675 psf High Demand (restrnt): \$1.60 psf 4. Sewer Impact Fee: Basic fee: \$65.85 (multiplied by no. of units depending on usage (laundromat, carwash) 5. Storm Drainage Asamt Fee: Range from \$2875.50 to \$5340.98 per acte 6. Fire Facilities Fee (comm'l only); \$.043 psf 7. School Fee: \$.33 psf	1. Trans Improvement Fee: Range: \$1.81 to \$5.50 psf 2. Trans. Corridor Fee: \$3.30 psf for Foothill-Eastern \$3.33 pef for San Joaquin 3. Orange Co. Sanitation Fee: Low Demand: \$.11 psf Aver Demand (office): \$.675 psf High Demand (office): \$.675 psf Basic fee: \$6.85 (multiplied by no. of units depending on usage (laundromat, carwash) 5. Storm Drainage Assmt Fee: Range from \$2875.50 to \$5340.98 per acre 6. Fire Facilities Fee (comm'i only): 5. 043 psf 7. School Fee: \$.33 psf	1. Trans Improvement Fee: Range: \$1.81 to \$5.50 psf 2. Trans. Corridor Fee: \$3.30 psf for Foolhill-Eastern \$3.63 psf for San Joaquin 3. Orange Co. Sanitation Fee: Low Demand: \$.11 psf Aver Demand (office): \$.675 psf High Demand (restmu): \$1.60 psf 4. Sewar Impact Fee: Bealco fee: \$5.85 (multiplied by no. of units depending on uaage (laurdomat, carwash) 5. Storm Drainage Aasmt Fee: Range from \$2875.50 to \$5340.88 per acre 6. Fire Facilities Fee (comm'l only): \$.043 psf 7. School Fee: \$.33 psf				
	TOTAL COSTS 50,000 SF PROJECT: Up to <u>\$514,241 plus Sewer</u> Impaci Fees	S. Storm Drainage Assmt Fee: Varies based on land acreage & by location in 1 of 6 designated areas -Commercial & Residential: range \$2875.50 - \$5340.98 per acre. 6. Park Acq & Dev Fee (residential only): 1 br \$1460, 2 br \$1945, 3 br \$2610; 4 br \$2800, 54 br \$2315	TOTAL COSTS 50,000 SF PROJECT: Up to <u>\$\$14,241 plus Sewer</u> Impact Fees.	TOTAL COSTS 50,000 SF PROJECT: <u>Up to 5560.491 plus Sewer</u> Impact Fees	TOTAL COSTS 50,000 SF PROJECT: Up to <u>\$560.491 pJus Sewer</u> Impact Fees	TOTAL COSTS 50,000 SF PROJECT: Up to <u>\$485,991 plus Sewer Impact</u> <u>Fees</u>				
<u>Torrance</u>	1. Construction Tax: 1.5% of construction value 2. School Fee: \$.34 psf	1. Parks & Rec Fee: \$550 per unit 2. Dwelling Unit Fee: \$1054 per unit 3. Construction Tax: 1.50% of construction cost. 4. Seismic Fee: \$.50 per \$1000 of value	1. Construction Tax: 1.5% of construction value 2. School Fee: \$.34 psf	1. Construction Tax: 1.5% of construction value 2. School Fee: \$.34 psf	1. Construction Tax: 1.5% of construction value 2. School Fee: \$.34 psf	1. Construction Tax: 1.5% of construction value 2. School Fee: \$.34 psf				
	TOTAL COSTS 50,000 SF PROJECT: <u>\$77,000</u>	5. School Fee: \$2.14 psf (for 500+ sf only)	TOTAL COSTS 50,000 SF PROJECT: \$77,000	TOTAL COSTS 50,000 SF PROJECT: <u>\$77,000</u>	TOTAL COSTS 50,000 SF PROJECT: <u>\$77,000</u>	TOTAL COSTS 50,000 SF PROJECT: \$27,000				

Page 3 of 4

SURVEY OF SPECIAL DEVELOPMENT IMPACT FEES CHARGED BY AREA CITIES AND COUNTER DATA DATA DATA DATA DATA DATA DATA DATA	APPENDIX B							
BY LAND USE Date of 271803 CITY RETAIL CLOSE CITY RETAIL CLOSE CLOSE ACCOUNT MEDIA CLOSE ACCOUNT MEDIA CLOSE ACCOUNT MEDIA	1	SURVEY OF	SPECIAL DEVELOR	MENT IMPACT FEE	S CHARGED BY ARE	EA CITIES AND COU		
Data as of 2/1003 Corp. Corp. Corp. Vertical formula frame. Corp.	1			BY LAND	USE		NHES	
OTY RETAIL RESIDENTIAL Class A Construction HOTEL RESTAILANT WAREHOUSE/ Carlsbad Long, Support Rest, S. J. (a) L				Data as of 2/	18/03			
Out Clip Analysis France / RESIDENTAL Clips A Constr HOTEL RESTAURANT WAREHOUSE Carlsbad	CITY	DETAIL	· · · · · · · · · · · · · · · · · · ·	OFFICE	1	·		
Nume Long Long <thlong< th=""> Long Long <thl< th=""><th><u></u></th><th>1. City Developer Impact Fees:</th><th>RESIDENTIAL</th><th>Class A Constr</th><th>HOTEL</th><th>RESTAURANT</th><th>WAREHOUSE/</th></thl<></thlong<>	<u></u>	1. City Developer Impact Fees:	RESIDENTIAL	Class A Constr	HOTEL	RESTAURANT	WAREHOUSE/	
During Continues ITOTAL COSTS Autod SPROLECT: ILLOS TOTAL COSTS Autod SPROLECT: ILLOS I. Santa Clarita only: Bridge Algor Thoroughter fee: ILLOS I. Santa Clarita only: Bridge Algor Th	<u>Carlsbad</u> (Has Inclusionary	None 2. School Dist. Fees:\$.34 psf	dwelling units are restricted to low-income atfordability. Can provide units or pay a \$4,515 fee per unit. 2.74 units: Must actually build units. Not permitted to pay in lieu fees. 3. School Fee: \$2.14 psf	1. Gity Developer Impact Fees: None 2. School Dist. Fees:\$.34 psf	1. City Developer Impact Fees: None 2. School Dist. Fees:\$.34 psf	1. City Developer Impact Fees: None 2. School Dist. Fees:\$.34 psf	1. City Developer Impact Fees: None 2. School Dist. Fees:\$.34 psf	
 Laste Cluits only- Bridge Reges 27/0 - 54 / 200 Laste Cluits only- Bridge Reges 27/0 - 54 / 200 Laste Cluits only- Bridge Reges 27/0 - 54 / 200 Laste Cluits only- Bridge Reges 27/0 - 54 / 200 Laste Cluits only- Bridge Reges 27/0 - 54 / 200 Laste Cluits only- Bridge Reges 27/0 - 54 / 200 Laste Cluits only- Bridge Reges 27/0 - 54 / 200 Laste Cluits only- Bridge Reges 27/0 - 54 / 200 Laste Cluits only- Bridge Reges 27/0 - 54 / 200 Laste Cluits only- Bridge Reges 27/0 - 54 / 200 Laste Cluits only- Bridge Reges 27/0 - 54 / 200 Laste Cluits only- Bridge Reges 27/0 - 54 / 200 Laste Cluits only- Bridge Reges 27/0 - 54 / 200 Laste Cluits only- Bridge Reges 27/0 - 54 / 200 Laste Cluits only- Bridge Reges 27/0 - 54 / 200 Laste Cluits only- Bridge Reges 27/0 - 54 / 200 Laste Cluits only- Bridge Reges 27/0 - 54 / 200 Laste Cluits only- Bridge Reges 27/0 - 54 / 200 Laste Cluits only- Bridge Reges 27/0 - 54 / 200 Laste Cluits only- Bridge Reges 27/0 - 54 / 200 Laste Cluits only- Bridge Reges 27/0 - 54 / 200 Laste Cluits only- Bridge Reges 27/0 - 54 / 200 Laste Cluits only- Bridge Reges 27/0 - 54 / 200 Laste Cluits only- Bridge Reges 27/0 - 54 / 200 Laste Cluits only- Bridge Reges 27/0 - 54 / 200 Laste Cluits only- Bridge Reges 27/0 - 54 / 200 Laste Cluits only- Bridge Reges 27/0 - 54 / 200 Laste Cluits only- Bridge Reges 27/0 - 54 / 200 Laste Cluits only- Bridge Reges 27/0 - 54 / 200 Laste Cluits only- Bridge Reges 27/0 - 54 / 200 Laste Cluits only- Bridge Reges 27/0 - 54 / 200 Laste Cluits only- Bridge Reges 27/0 - 54 / 200 Laste Cluits only- Bridge Reges 27/0 - 54 / 200 Laste Cluits only- B	Ordinance))	TOTAL COSTS 50,000 SF PROJECT: \$_17.000		TOTAL COSTS 50,000 SF PROJECT: \$17.000	TOTAL COSTS 50,000 SF PROJECT: \$17,000	TOTAL COSTS 50,000 SF PROJECT: \$_17.000	TOTAL COSTS 50,000 SF PROJECT: \$.17.000	
1. Major Thoroughfare & Bridge Fee Program, Fees vary depending on location in multiple areas, 2 nonse within areas, For SF and MF res, fee is pad., 4 there is no threshold. 1. Major Thoroughfare & Bridge Fee Program, Fees vary depending on location in multiple areas, 2 nonse within areas, For SF and MF res, fee is pad., 4 there is no threshold. 1. Major Thoroughfare & Bridge Fee Program, Fees vary depending on location in multiple areas, 2 nonse within areas, For SF and MF res, fee is pad., 4 there is no threshold. 1. Major Thoroughfare & Bridge Fee Program, Fees vary depending on location in multiple areas, 2 nonse within areas, 6 nonse within areas, 6 nonse within areas, 6 non-residential, fee is pad. All to 2 fees go to Orange County, 2 of the fees go to the Trans Corridor Agency, Ranges of the same and write that areas should. 1. Major Thoroughfare & Bridge Fee Program, Fees vary depending on location in multiple areas, 2 nonse within areas, 6 non-residential, fee is pad. All to 2 fees go to Orange County, 2 of the fees go to the Trans Corridor Agency, Ranges of fees are so varied that a fee schedule is attached to survey. 1. Major Thoroughfare & Bridge Fee Program, Fees vary depending on location in multiple areas, 5 norse within areas, 6 non-res. 1. Major Thoroughfare & Bridge Fee Program, Fees vary depending on location in multiple areas, 5 norse within areas, 6 non-res. 1. Major Thoroughfare & Bridge Fee Program, Fees vary depending on location in multiple areas, 5 norse within areas, 6 non-res. 1. Major Thoroughfare & Bridge Fee Program, Fees vary depending on location in multiple areas, 5 norse within areas, 6 non-res. 1. Major Thoroughfare & Bridge Fee Program, Fees vary depending no location in multiple areas, 5 norse within areas, 6 non-res. 1. Major Thoroughfare & Bridge Fee Program, Fees varie is Bridge Fee Program, Fees varies is pot. All to 2 fee is	<u>Los</u> <u>Angeles</u> <u>County</u>	1. Santa Clarita only - Bridge & Major Thoroughfare Fee: Range: 8,2700 - \$14,700 2. Fire Services Impact Fee: \$.18 psf 3. School Dist. Fee as of 9/25/02. Request to Increase on 12/9/02: Commercial: \$.33 psf. Pkg Structure: \$.09 psf TOTAL COSTS 50,000 SF PROJECT: Up to \$40,200 Un to \$44,700 w/pkg.structure	1. Senta Clarita only - Bridge & Major Thoroughfare Fee: Range: 8:2,700 - \$14,700 2. Library Services Impact Fee. Varies depending on location in 1 different areas. No threshold. Ralsed annually based on CPI: Range: 8:640 - \$648 pdu 3. Parks & Rec Fee: 3:2,410 per dwelling unit 4. Fire Services Impact Fee: \$.18 psf 5. School Dist. Fee as of 9/25/02. Request to Increase on 10/8/02; Residential: \$2.05 psf Pkg Structure: \$.09 psf	1. Santa Clarita only - Bridge & Major Thoroughfare Fee: Range: \$2,700 - \$14,700 2. Fire Services Impact Fee: \$.18 psf 3. School Dist. Fee as of 9/25/02. Request to increase on 12/9/02: Commercial: \$.33 psf. Pkg Structure: \$.09 psf TOTAL COSTS 50,000 SF PROJECT: Up to \$40,200 Un to \$44.700 w/pkg structure	1. Santa Clarita only - Bridge & Major Thoroughfare Fee: Range: \$2,700 - \$14,700 2. Fire Services Impact Fee: \$.18 paf 3. School Dist, Fee as of 9/25/02. Request to Increase on 12/9/02: Commercial: \$.33 psf, Pkg Structure: \$.09 psf TOTAL COSTS 50,000 SF PROJECT: Up to \$40,200 Up.(0.\$44,700 w/pkg.structure	1. Santa Clarita only - Bridge & Major Thoroughfare Fee: Range: 82,700 - \$14,700 2. Fire Services Impact Fee: \$. 16 psf 3. School Dist. Fee as of 9/25/02. Request to Increase on 12/9/02: Commercial: \$.33 psf. Pkg Structure: \$.09 psf TOTAL COSTS 50,000 SF PROJECT: Up to \$40,200 Up to \$44,700 w/pkg structure	1. Santa Clarita only: Bridge & Major Thoroughfare fee: Range: \$2,700 - \$14,700 2. Fire Services Impact Fee: \$. 18 pcf 3. School Dist, Fee as 0f 9/25/02. Request to increase on 12/9/02: Indus/Mfg: \$. 33 pcf Self-Storage: \$. 27 psf TOTAL COSTS 50,000 SF PROJECT: Up to \$40,200 or Up to \$28,200. If self-storage	
	Orange County Total costs vere not valculated ariety of reas and issimilarity b Long Beach.)	1. Major Thoroughfare 8. Bridge Fee Program. Fees vary depending on location in multiple areas. For SF and MF res, fee is pdu., & there is no threshold. For non-residential, fee is psf. All but 2 fees go to Orange County; 2 of the fees go to the Trans Corridor Agency. Ranges of fees are so varied that a fee schedule is attached to survey. 2. Orange Co. Fire Authority Fee - Varies by 8 areas: \$5.21 to \$38.32 psf for non-res.	1. Major Thoroughfare & Bridge Fee Program. Fees vary depending on location in multiple areas, So SF and MF res, fee is pdu, & there is no threshold. For non-residential, fee is psf. All but 2 fees go to Orange County. 2 of the fees go to the Trans Corridor Agency. Ranges of fees are so varied that a fee schedule is attached to survey. 2. Library Fee (for res. only.) Fee sufficient to cover costs of svcs. provided by Bibrary system & only for large projects. 1/2 sf. per capita of canstr cost AND 1.5 books per capita. 3. Orange Co. Fire Authority fee; varles in 8 areas. Range for residential: 563 pdu to \$392 pdu.	1. Major Thoroughfare & Bridge Fee Program. Fees vary depending on location in multiple areas, & zones within areas. For SF and MF res, fee is pdu, & there is no threshold. For non-residential, fee is psf. All but 2 fees go to Crange County. 2 of the fees go to the Trens Corridor Agency. Ranges of fees are so varied that a fee schedule is attached to survey. 2. Orange Co. Fire Authority Fee - Varies by 8 areas: \$6.21 to \$38.32 psf for non-res.	1. Major Thoroughfare & Bridge Fee Program. Fees vary depending on location in multiple areas, & zones within areas, & zones within areas, & zones within res, fee is polu, & there is no threshold. For non-residential, fee is psf. All but 2 fees go to Orange County. 2 of the fees go to the Trans Corridor Agency. Rangea of fees are so varied that a fee schedule is attached to survey. 2. Orange Co. Fire Authority Fee - Varies by & areas: \$8.21 to \$38.32 psf for non-res.	1. Major Thoroughfare & Bridge Fee Program. Fees vary depending on location in multiple areas, & zones within areas, & zones within areas, & zones within areas, for SF and MF res, fae is pdu., & there is no threshold. For non-residential, fee is pst. All but 2 fees go to Orange County. 2 of the fees go to the Trans Corridor Agency. Ranges of fees are so varied that a fee schedule is attached to survey. 2. Orange Co. Fire Authority Fee - Varies by 8 areas: \$6.21 to \$38.32 psf for non-res.	1. Major Thoroughtare & Bridge Fee Program. Fees vary depending on location in multiple areas, & a cones within ereas. For SF and MF res, fee is pdu., & there is no threshold. For non-residential, fee is psf. All but 2 fees go to Orange County. 2 of the fees go to the Trans Corridor Agency. Ranges of fees are so varied that a fee schedule is attached to survey. 2. Orange Co. Fire Authority Fee - Varies by 8 areas: \$6.21 to \$38.32 psf for non-res.	
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