### Form-Based Code Technique: Regeneration Plans

Jose Antonio Perez, Senior Associate



Moule & Polyzoides

Architects and Urbanists

# Focus: from staff perspective

Dial it up / Dial it down

Know about it before you accidentally leave it out

Learn to drive the Ferrari

Plugging it in

# Form-Based Code Components

1. Regulating Plan

**Intended Character** 

Zones,

Rights-of-Way

2. Land Use Regulations

Permit Requirements/Administration

3. Block and Street Standards

Blocks and Open Space

Landscape

**Streets** 

4. Urban Standards

Building Placement / Height, Encroachments

Parking Placement

5. Architectural Standards

**Building Types** 

Frontage Types

**Architectural Style** 

#### TOPIC / COMPONENT LEVEL OF REGULATION CHARACTER AND INTENSITY REGULATING PLANS ZONES AND INTENT DEVELOPMENT POTENTIAL SUBDIVISION OF LAND BLOCKS Lots STREET TYPES **OPEN SPACE TYPES** STREETSCAPE TYPES URBAN STANDARDS BUILDING PLACEMENT BUILDING HEIGHT BUILDING PROFILE ENCROACHMENTS PARKING PLACEMENT PARKING REQUIREMENTS ARCHITECTURAL STANDARDS BUILDING TYPES FRONTAGE TYPES ARCHITECTURAL STYLE SIGNAGE ADMINISTRATION **PROCEDURES** DEFINITIONS

#### CODE FRAMEWORK AND RECULATIONS

#### Template for Adjustment to Plan

The individual regulations for each of the press in the plan area are expressed for each store to same set the intentions and vision of the plan. These regulations work in contribution with the regulating plan.

NE - not applicable - + not allowed

#### Tass Corne Jase

The YC Error is applied to the area planned to some supposal and community-head totals. Strategops are patient and the Strategops are patient to support or planting and detail to support or insting and effective commencial environment. Buildings are since to or at the siderals with subborr elements and authories. Parting is shared in a 'partsect spine of section and official



Toke on Toke

#### SPECIAL DISTRICT ZINCE

The SD Done is applied to areas that are the SO Steen is realized to age that we single-purpose in realizer and, that to this configuration and use, are not intended as miscluser neighborhoods or districts ing. Specin Complex, November Preser Committee, Industrial areas). Farking Incom-

The SK Zone is applied to areas to sense local, registerhood needs through mixed use stockagement of rotal, office and ros-dered users. Suitings are shown to or as the sidenals. Stretcuspen are posterbiseor comme, arminiph or posterior oriented, regular in planting and datal to minister the originational laces of the arm. Reling is classed in a 'parkenno' system of one and off-street spaces.

The NG of John is applied to areas introduced to a supervision of the SEC of Town is applied to a seas intended of the SEC of Town is applied to a successful for the Sect of the Section of the Sect of the Sect of the Sect of the Section of or allumes and desirates turning types and uses at the food, registering of less Streetscapes are protestive-oriented, regu-lar and rengular in planting and obtain to provide spatial definition to the wide range of dead types. Parking is provided on each let.

#### No or agent one Greater, 1 Jones

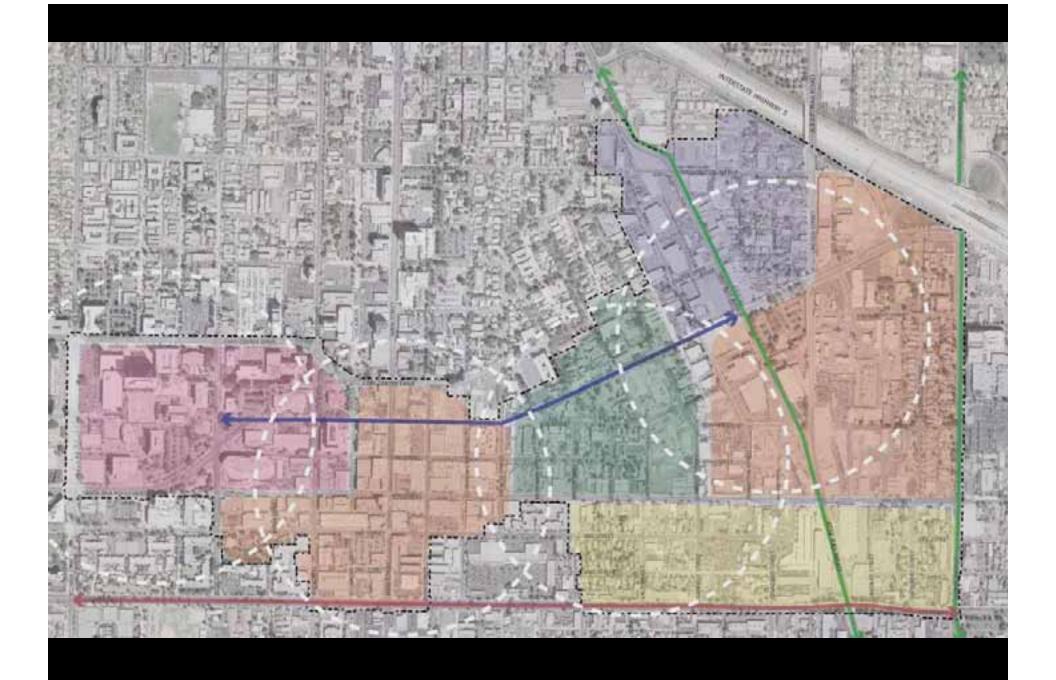
for and irregular in planting and detail to provide qualial definition to the wide range of street types. Parting is provided on

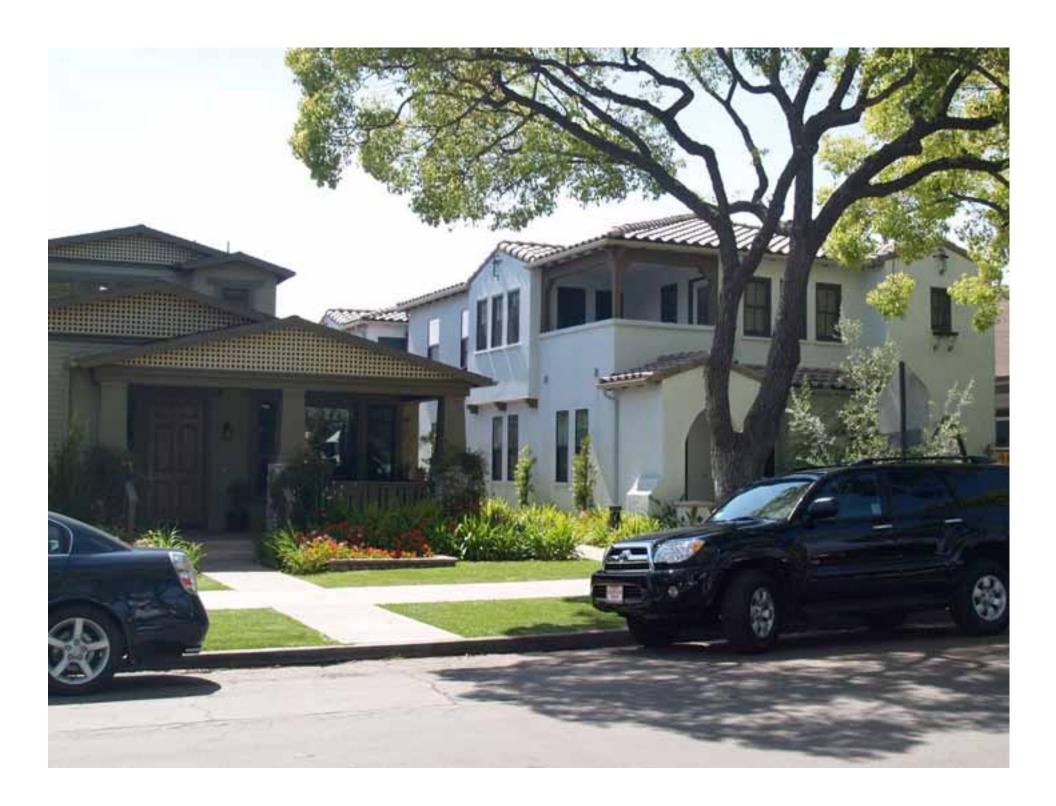
#### No re-serve contribution of the contribution o

#### One See Jave

The DS Show is applied to seem intended for not observable state of the about the property of the secondary for the property of the secondary state of the property of the secondary secondary of the property of the property

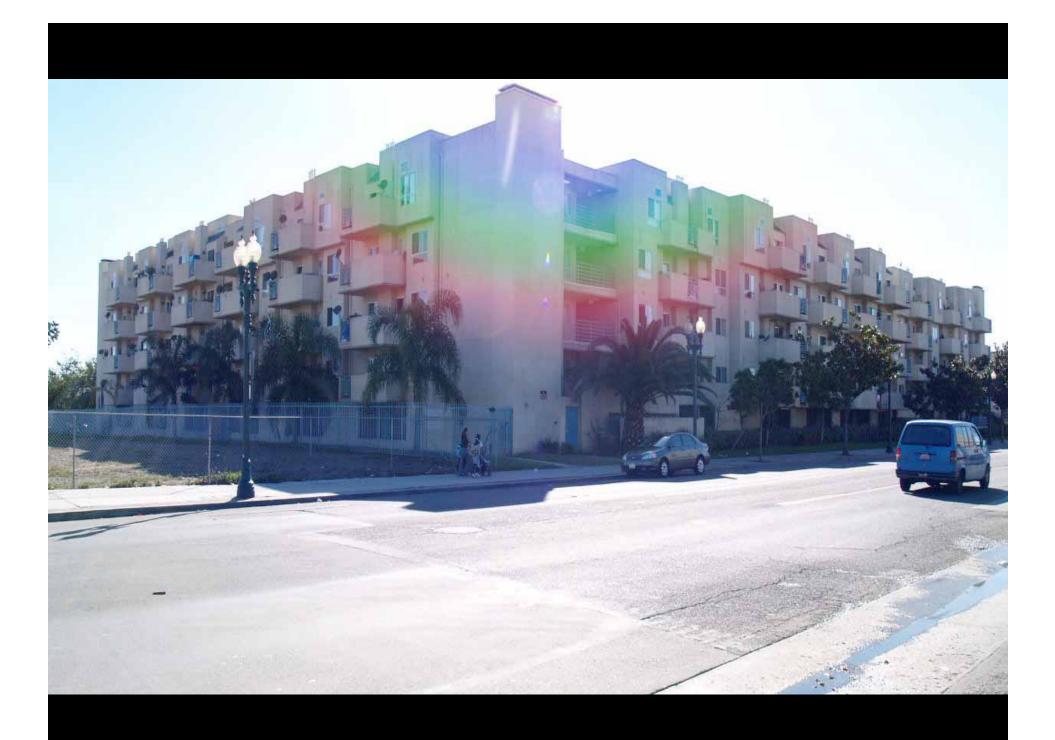
	Control made	Epinerial segue	The Property	Tim On	Comment of the	Cannotal 800,888	Girmetal IIII.500	Campetal: sociole
Gevelopment Potential	Holothic secure Residence soon	Residence sources	Section 1996	heldelik sayas Beskelik tipg	Probability accuses Brook-fact traps	Residental socialis	Technical company Residential topic	Note that concess the state of the concess to the c
Fermitted Uses	teginal /Community-result affice, medi- cal, telging, residential, cvic	test, ofice light natural, restorat. cost	Rodrati, Poer Greatic Station	Local retail, office, freework, residential, light industrial	Residential, New York [1]	Rodetic Search()	Residential Name-accupation	Residental, home accupation
Binchs / Subdivision of Land 0 - Orthopout 7 - Toposobii	0 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 -	0-Septi on on one or on	D-Digiti into inaction to the larger to the	D-Digitir Min Min Smight 200 400 200 400 T-Digitify Spiring Singer Listes	2-5uph   - min max   -	0-3yds of the con- length to 400 100 500 1-3oph/length you and length a sides	D-Dydy on on on length on on the first on the first on the first on the first one of the fi	Top   Arrange   Min Stead   State
Building Type Standards								
See   Size   Size   Size   Size   Size	Securitation Relate Relate Relate Relate Relate Somewhill find Size Whited Destings Secretar Solve Theory Relate Solve Theory	Injust Dust Darment Back Liber Sheled Destings Limited And Sheled	pe Stopp Snine	Germental Black User User Work — Convigent Mouning Assistance — — —	General Bals  United Bals  Interface  Onder Maning  Revision  Respine Cont  Execute  Sight Seeling  Assemption  As	Connected Stack  Use-Wark  Industrial Shed  Contypert Housing  Machiner  Brogelies Courts  Screened  Digities Quarteries  Single Destring  Assessort-United	Stranoulli Draftin si Qualifoni Single Owelling Austrony Streffig	Dur Suttengti per Stript Stules
Building Placement Standards								
Selecte Fool Ser Sole SoleSole	min max after   F. +> 5   MA   MA   MA   MA   MA   MA   MA	7 - 10 Stoffer 8 - 1 Stoffer 9 - 1 Stoffer 9 - 1 MA Tylpolet 90 - 1 MA M	by coefficient are preside	R 0 10 MA R 0 10 MA S 5 MA MA S 5 MA MA	2: 5 10 5A 2: 0 5 NA 5: 7 NA NA 5: 7 NA NA	#10 Mas after  f: 5 % MA  8: 4 5 MA  5: 7 MA  5: 7 MA  5: 1 MA  6:	min max   min	Fin Fig. 2007 F: 10 NA NA F: 10 NA NA F: 10 NA NA S: 10 NA NA
Building Profile Standards								
Mar and Mar Mulding shingles (be need). Types all increases have been shared. Mar Hand Mar Sales Mar Sales Mar Sales Sales	Aroute, Carleys Balancys Bay Sign, Auriting  B. 10  B. 10  S. 3  SVS. 6	Areate, Calley, Balany, Bay, Sign, Aering 6: 10 8: 17 5: 3 5:5: 6	NA. SA. Arosito, Callery, Biology, Boy, Sign, Avering E. NA. S. NA. S. NA. S. NA.	Arcalo, Calma, Baltona, Ban, Sign, Amining Fig. 10 R: 10 S: 3 S: 6	Balance, Boy Spy, America B. so B. so S: 3 St'E: 6	Britony Box Egy, Aering  St. 100  Rt. 100  St. 1	balany by Sign Animp  6 w  8 w  9 5  9 5  9 5	Chi Salbaggi per Desge Boles
Frontage Type Standards Ton: Water Depth Height Other								
Acade plane com	Arado Caliny Simplest Disea Assessed - - -	Anale Euley Stephen Step Norman	Areath Eulory Strophost Strop Stromburl Strop Stromburl Strop Stromburl Strop Stromburl Strop St	Anath Calley Stagford Stag Removed	Steep Systems of Marie Steep S	Straig Serviced Walked free! Shed Shed Codes with Factor Common Later of the	Walled Trace Their Bank St. Control Ball Farmer Clarence Claim other	
Parking & Parking Placement Standards	Sealine bire to king	beater inputs in things	Sacoffett erjeden er let	Leader brind tuitings	Leader briefulting	Sacolities better Subdrage	latefall is had a lateral hald up	Satisfact day that for tags (4)
American bestead Petidential species proving Color Work (proving on a Color translation) (Petide species proving to Indicated)	1		50 50 50 50 50 50 50 50 50 50 50 50 50 5	a jungan nghi hadingi a jungan nghi hadingi a jungan juhan giran jungan	other security of the final of	To a constraint to the constraint of the constra	To a constraint freeling NA. NA. NA.	[6] Parks and Greenways are allowed to have individual parking into of no more than

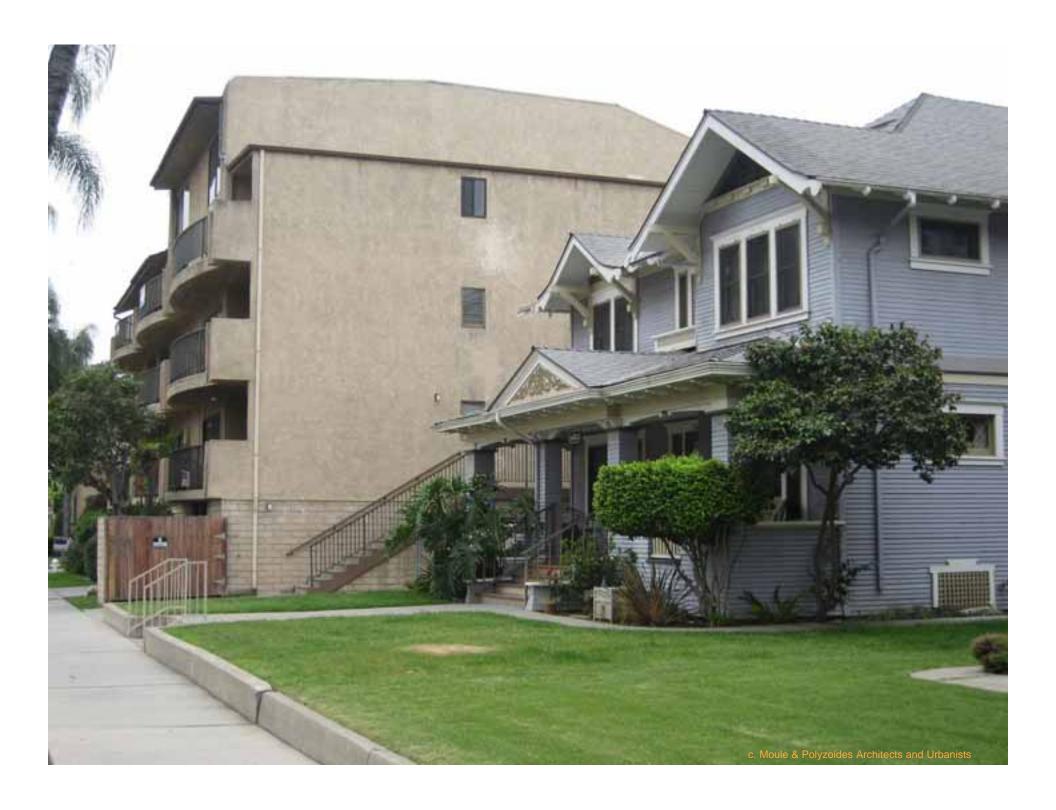












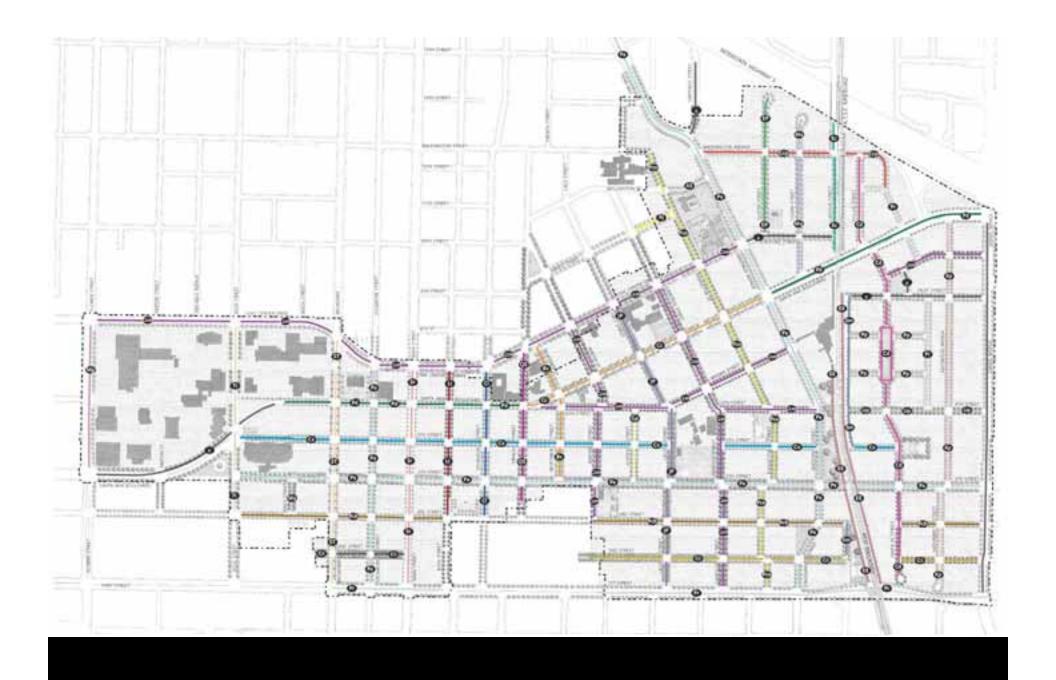




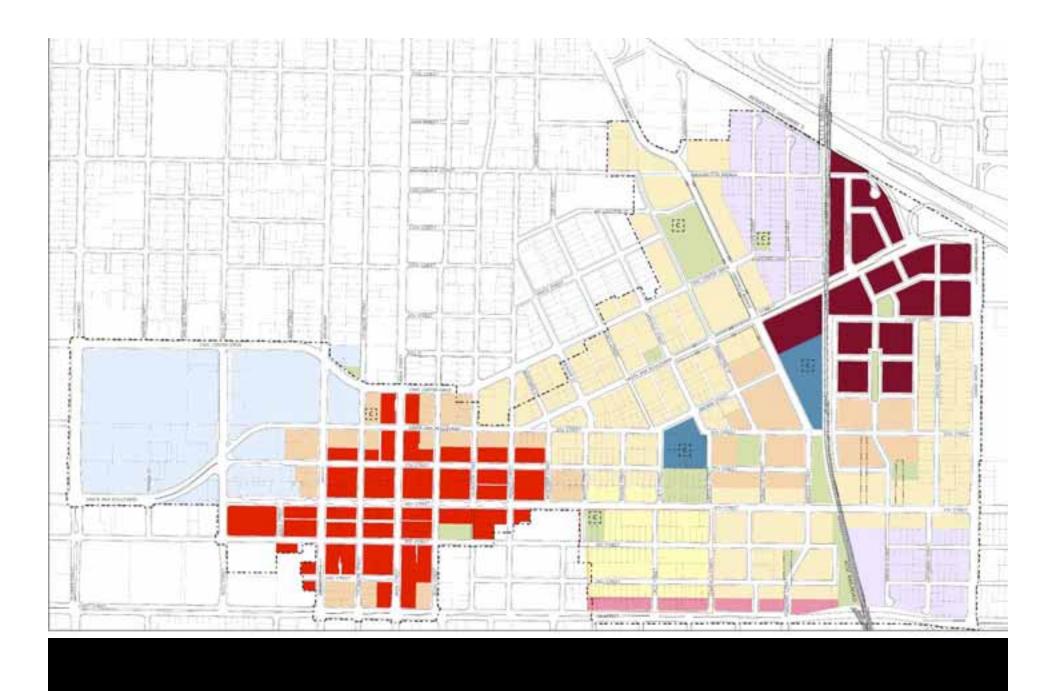
# **Composite Interventions**



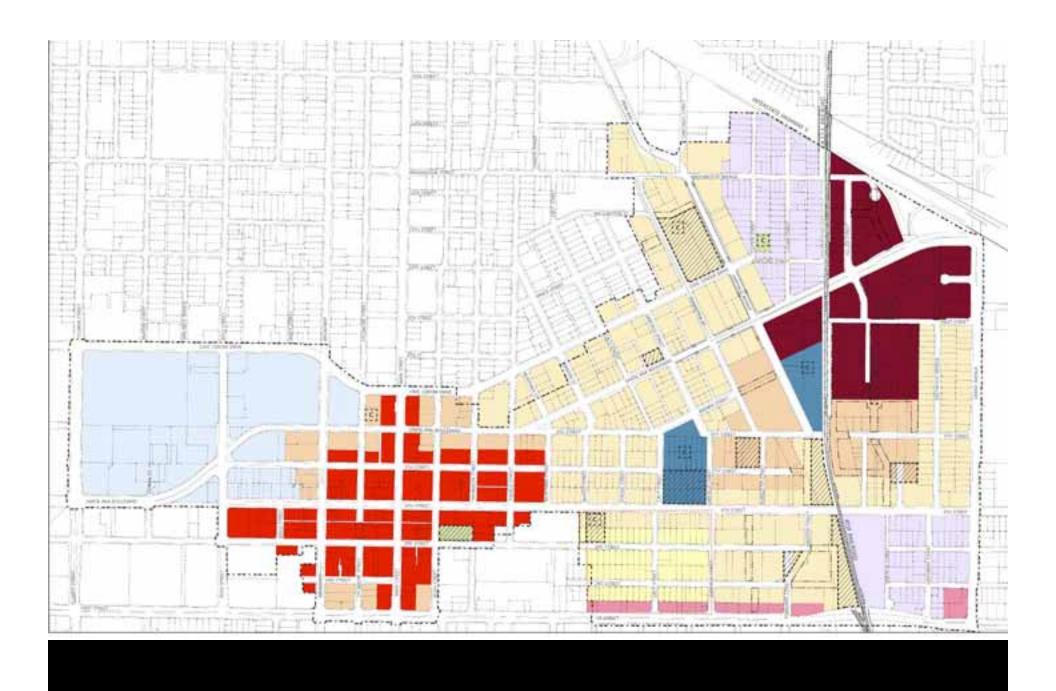




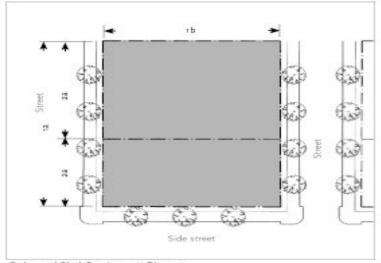




# Evolving the technique to be more responsive to local needs







Orthogonal Black Requirements Diagram

4.8.040 - Block Requirements. The dimensional requirements are summarized below with an illustrative sequence on page 4:32 of subdividing a site into blocks per the following standards:

- A. Orthogonal Block Requirements Orthogonal blocks are rectilinear and cosnsist of square or rectangular designs. The following requirements apply:
  - 1. Block Length / Width

Blocks of various designs and functions are allowed as identified in the diagram above and per the standards below:

For 10% of Blocks

- (a) Mininum: 150 feet; Maximum: 600 feet
- (b) Minimum: 150 feet; Maximum: 600 feet

For 90% of Blocks

- (a) Mininum: 250 feet; Maximum: 600 feet
- (b) Minimum: 250 feet; Maximum: 600 feet

#### 2. Parcel / Lot Width

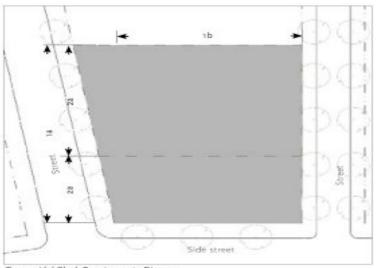
All buildings shall be designed to a parcel as identified below:

 Mininum: as specified per the allowed Building Type(s)
 Maximum: 300 feet or as specified further per the allowed Building Type(s)

Note: The parcel is primarily for design purposes and may be made permanent through the regular process for parcel or tract maps.

#### 3. Streets / Rights-of-Way

All blocks shall be designed per the allowable street types, as identified in 4.9, Street Network Plan



Trapezoidal Block Requirements Diagram

- B. Trapezoidal Block Requirements Trapezoidal blocks are irregular in shape and consists of various designs. The following requirements apply:
  - 1. Block Length / Width

Blocks of various designs and functions are allowed as identified in the diagram above and per the standards below:

For 20% of Blocks

- (a) Mininum: 100 feet; Maximum: average of 400 feet for two longest sides
- (b) Minimum: 100 feet; Maximum: average of 400 feet for two longest sides

For 80% of Blocks

- (a) Mininum: 200 feet; Maximum: average of 500 feet for two longest sides
- (b) Minimum: 200 feet; Maximum: average of 500 feet for two longest sides

#### 2. Parcel / Lot Width

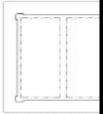
All buildings shall be designed to a parcel as identified below: Building Types.

(a) Mininum: as specified per the allowed Building Type(s)
 Maximum: 300 feet or as specified per the allowed Building Type(s)

Note: The parcel is primarily for design purposes and may be made permanent through the regular process for parcel or tract maps.

#### Streets / Rights-of-Way

All blocks shall be designed per the allowable street types, as identified in 4.9, Street Network Plan.



Existing alley access

4.8.050 - Access re site into blocks an or other right-of-w

- Realignment of Existing rights block and privand the applie
- B. Existing Alley In all cases, being alley-accedeflection, etc mum 100 fee realigned alle



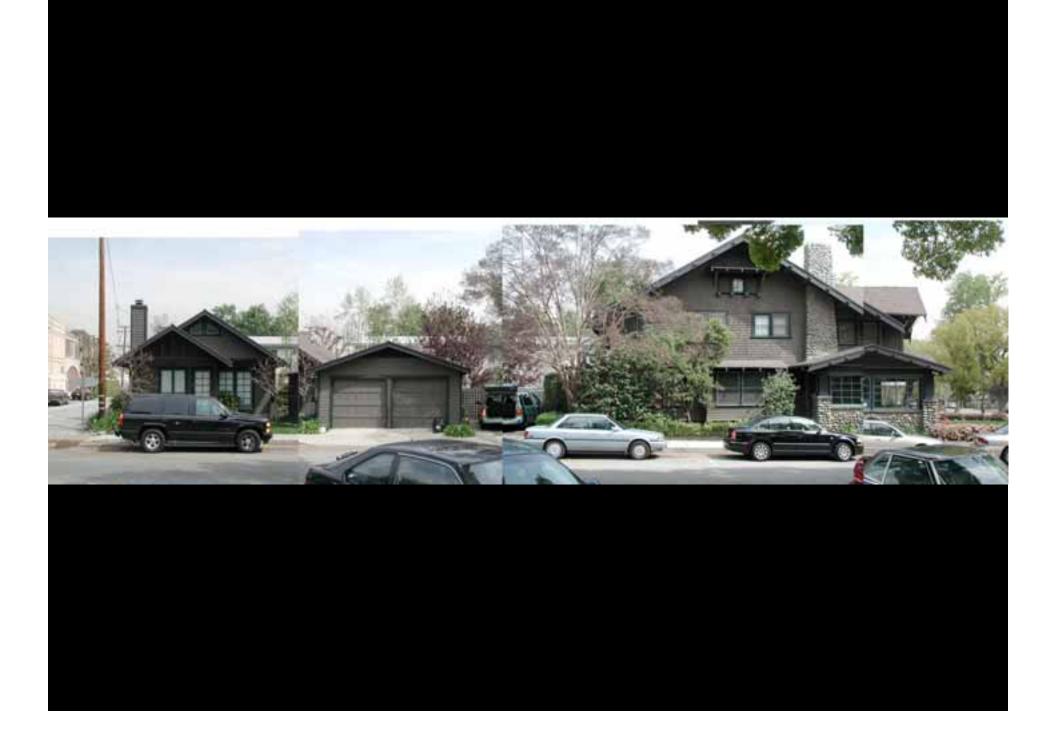




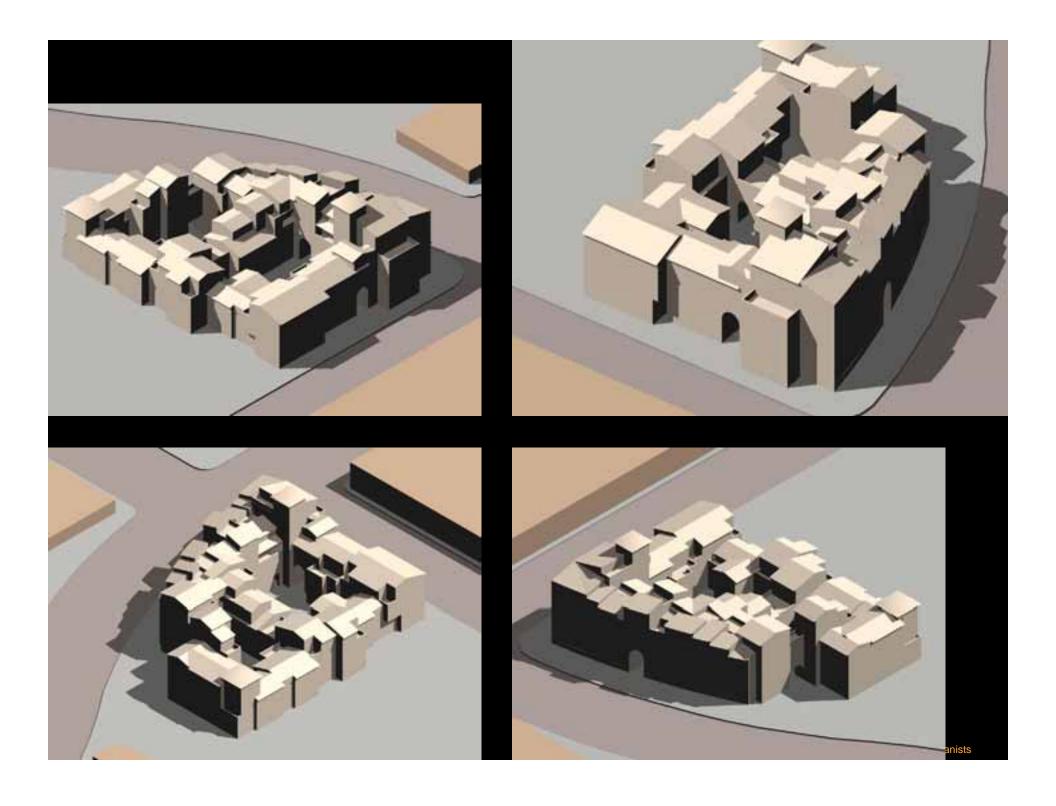




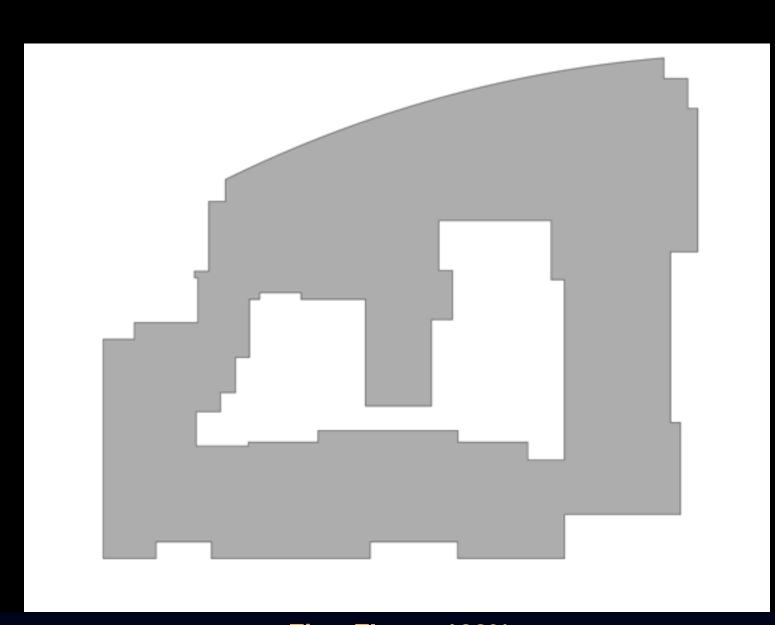




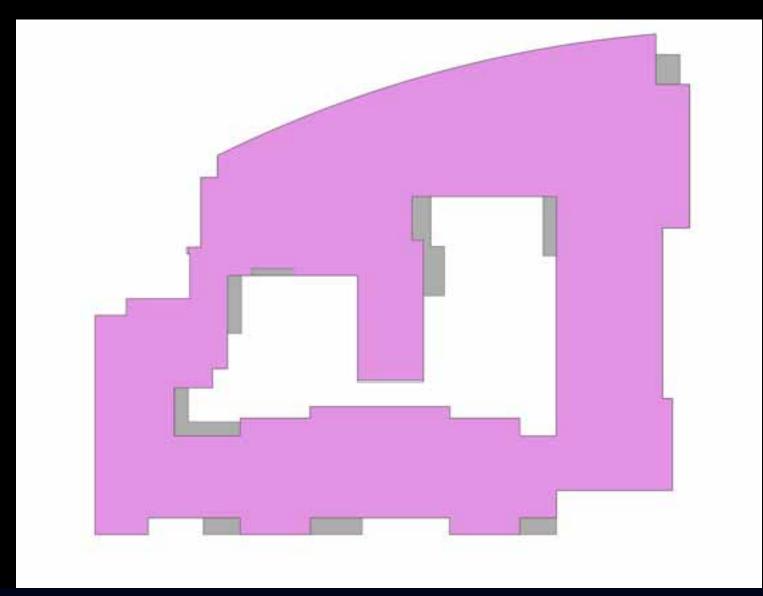




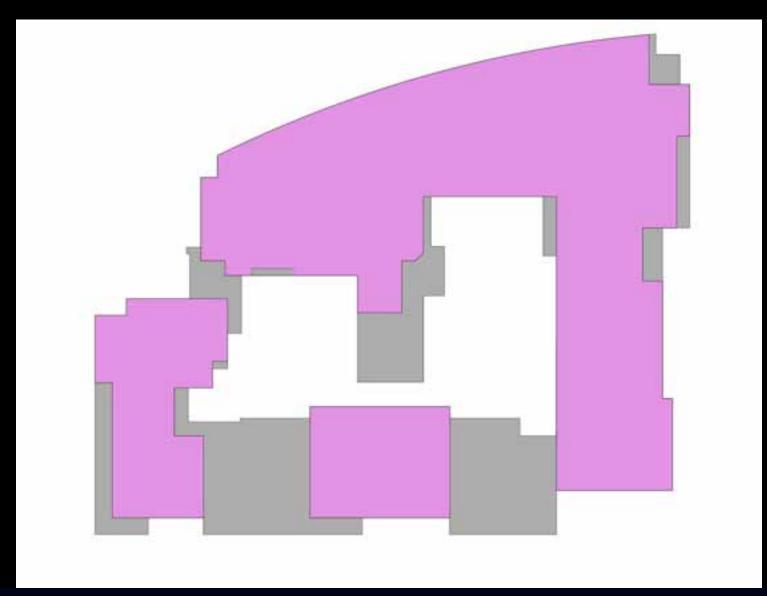
Scenario (in Stories)	Ratio of each Story				
(III Stories)	1	2	3	4	5
2.0	100%	80%	15%	•	2.00
3.0	100%	80%	50%	15%	
3.5	100%	90%	65%	25%	3.5
4.0	100%	100%	70%	35%	15%



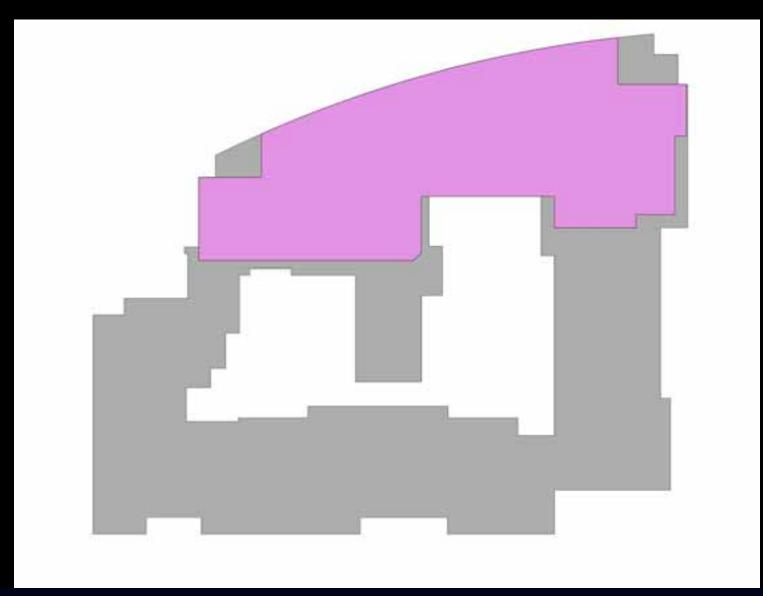
First Floor - 100%



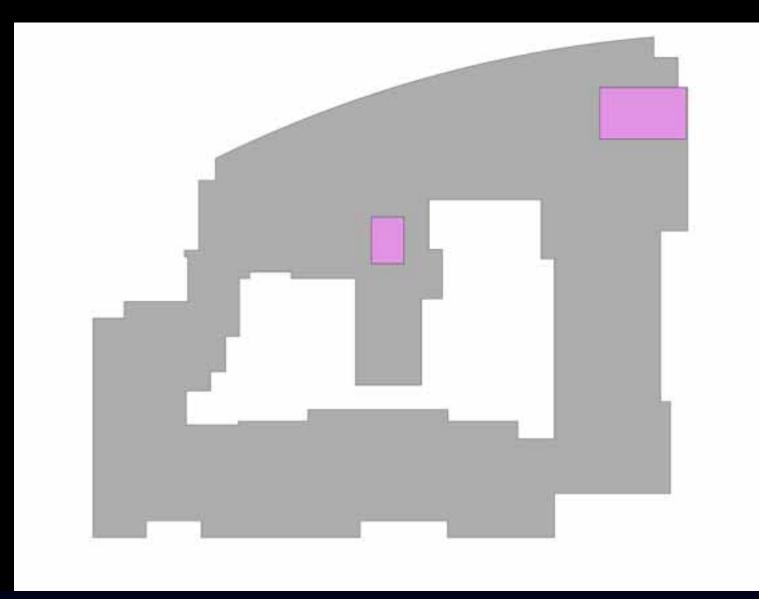
Second Floor - 90-100%



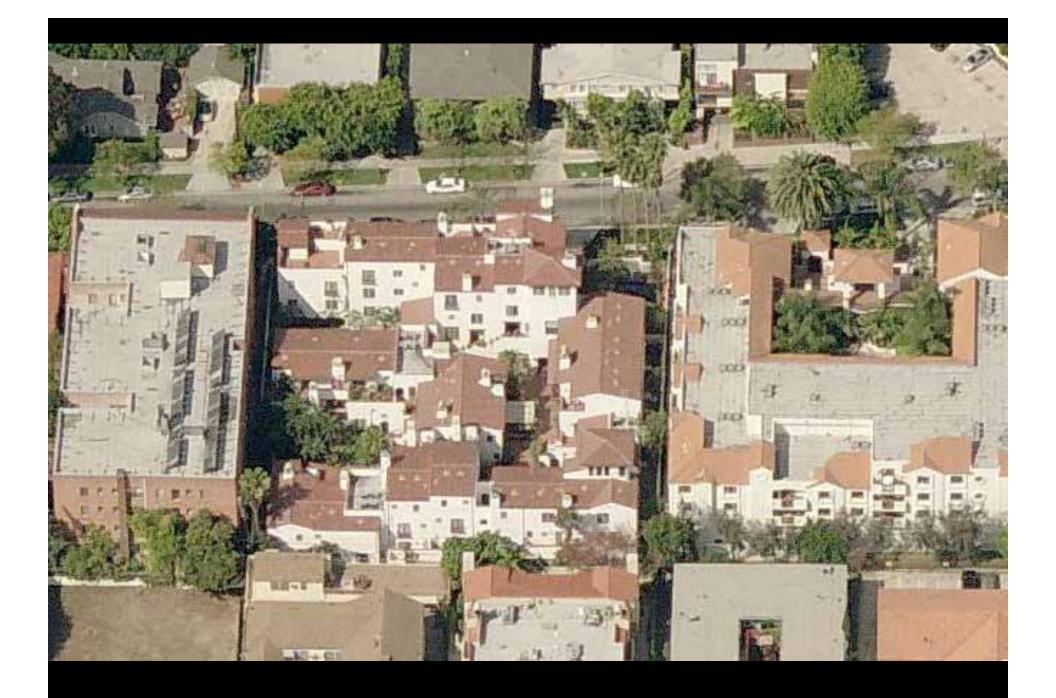
Third Floor - 70%



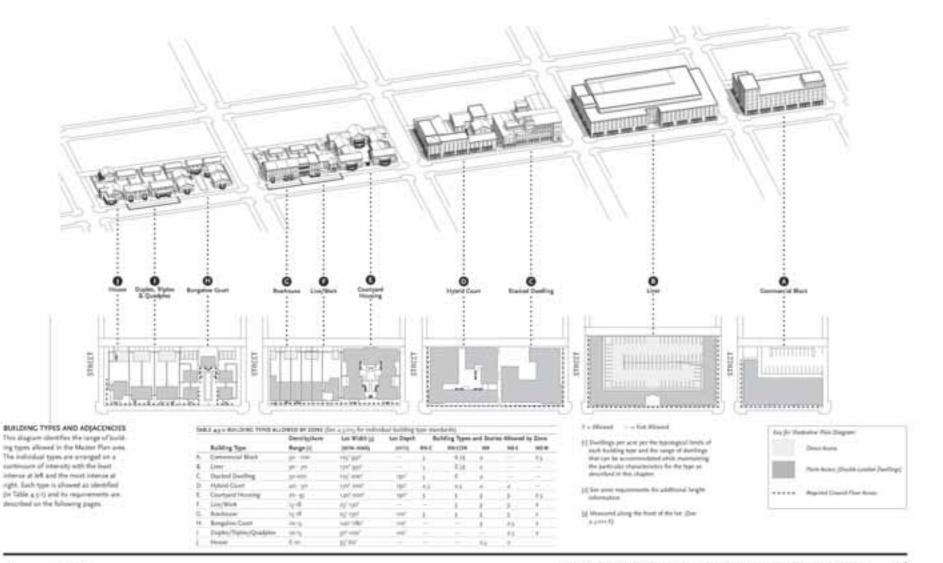
Fourth Floor - 35%



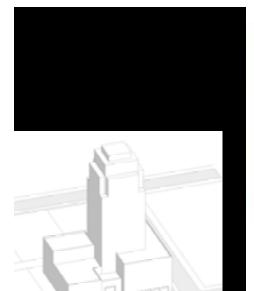
Fifth Floor - 15%

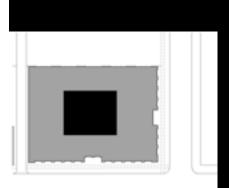


# FAR and Density resulting from FBC



44 ABOVERSTURN, STHERMORE









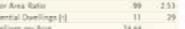
TOWER ON PODIUM			
Lot Width	200	250	
Lot Dept	150	150	
Front Yard Setback	5	136	
Side Yard Setback 1	5	-	
Open Space Area(15% of Lot)			
Second Floor Massing	0%	100%	
Third Floor Massing	0%	100%	
Fourth Floor Massing	0%	100%	
Fifth Floor Massing	0%	100%	
Sixth Floor Massing	0%	190.4	
7th Floor Massing	0.70		
8th Floor Massing			
9th Floor Massing			
10th floor		40%	
11th		40%	
12th		409	
13th		40%	
14th		409	
15th		40%	
16th		30%	
17th		30%	
18th		30%	
19th		30%	
zoth		30%	
2158		30%	
zand		30%	
zard		30%	
24th		30%	
25th		30%	
Front Yard Area	1,000	200	
Side Yard 1 Area	1,0000		
Side Yard 2 Area			
Rear Yard Area	2.000	3,500	
Open Space Area	4,500	2,344	
Potential Divellings [1]	- 1		
Dwellings per Acre :	1.452		

(t) Subject to addressing parking and all applicable requirements.



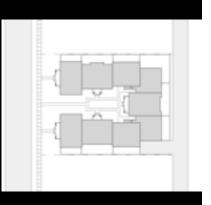


COURTYARD HOUSING	MIN	MIO
Lot Width	150	200
Lot Dept	150	150
Front Yard Setback	10	15
Side Yard Setback 1	10	10
Side Yard Setback 2	10	10
Rear Yard Setback	15	15
Open Space Acea (1976 of Lot Area):		4,500
Second Floor Massing		100%
Third Floor Massing	096	
Fourth Floor Massing	0%	
Fifth Floor Massing	0%	35%
Sixth Floor Massing	0%	0%
Front Yard Area	1,250	3,000
Side Yard 1 Area	1,250	1,200
Side Yard 2 Area	1,250	1,200
Rear Yard Area		3,000
Open Space Area		4,500
Settrack and Open Space Area		13,900
Lot Area		30,000
Lot Area (acres)	0.430	
Floor Area: Ground Floor	10,313	
Floor Area: Second Floor		
Floor Area: Third Floor	0	14,535
Floor Area: Fourth Floor	0	
Floor Area: Fifth Floor	0	
Floor Area: Sixth Floor	0	14,535
Floor Area		
Interior Circulation, Stales, etc. (15%)		11,404
NET Floor Area		
Floor Area Ratio	- 59	2.53
Potential Dwellings [1]	13	. 25



(i) Subject to addressing parking and all applicable requirements.





e & Polyzoides Architects and Urbanists

#### C. Shopfront

Shopfront: Shopfronts are large glazed openings in a façade, filled with doors and transparent glass in a starefront assembly. At least ports of the façade below the height of no feet should be transparent glass, which should extend to within no less than y feet of the ground. This traditional retail frontage type is often provided with canopies or awmings, which may be fixed or retractable, to shelter pedestrians and shade the storefront glass from glare. The storefront assembly may be recensed to provide a widened sidewalk or a covered area for outdoor dining, but even a slight recess can significantly reduce the visibility of marritandise.

#### 1. Configuration

A great variety of shopfront designs are possible, but the following apply:

- a. min to feet tall, as measured from the adjacent sidewalk.
- The corresponding storefront(s) opening(s) along the primary frontage shall comprise at least 65% of the 1st floor wall area facing the street and not have opaque or reflective glazing.
- Storefronts within the overall facade may be recessed from the frontage line by up to 10 feet.
- d. A physical transition shall be provided between the glazing of the storefront and the grade except if the glazing itself terminates directly at the grade. Where a buildhead is applied to transition between the opening(s) and the adjacent grade, the buildhead shall be between 10 inches and 36 inches tall (aluminum storefront or spandrel panel may not substitute for a buildhead).

The storefront shall provide clear views of merchandise displays within the shop space and/or maintained and lighted merchandise display(s) within a display zone of approximately four feet in depth from the glass.

#### 2. Elements

- e. Awnings, signs, etc, shall be located at least 8 feet above the adjacent sidewalk and may project for the width of the sidewalk at a rate of 6 inches per each foot above 8 feet to a maximum encroachment of within 2 feet of the curb.
- f. Signage shall not project within 2 ft of the adjacent curb face(s).
- Asmings shall only cover storefronts and openings so as to not cover the entire facade.
- The term "clear" means that the identified area is free of encroachments other than signs, light fatures, etc.



illustrative Photo: Shopfront



Ausnometric Diagram: Shopfiort



Section Diagram: Shopfort

#### D. Forecourt

Forecourt: A Forecourt is a public space formed by a recess in the façade of a building. Forecourts are generally appropriate for commercial or evice use, or in some cases for vehicular drop-off at a civic building or hotel, as distinct from courtyands with are semipublic spaces providing frontages of a generally residential character.

#### 1. Configuration

A great variety of forecourt designs are possible, but the following apply:

- a. min to feet clear [1], max 60 feet deep (clear [1] )
- b. min 10'; max 60'
- c. The court may also be raised from the sidewalk, creating a small retaining wall at the property line with entry steps to the court, but shall not exceed 3 feet from the adjacent sidewalk grade.
- Storefronts shall be at least 10 feet tall, as measured from the adjacent sidewalk.
- The corresponding storefront(s) opening(s) along the primary frontage shall be at least 65% of the 1st floor wall area and not have opaque or reflective glazing.
- f. A physical transition shall be provided between the glazing of the storefront, and the grade except of the glazing itself terminates cliently at the grade. Where a buildhead is applied to transition between the opening (s) and the adjacent grade, the buildhead shall be between to inches and yo inches tall (aluminum storefront or spandrel panel may not substitute for a buildhead).

The storefront shall provide clear views of merchandise displays within the shop space and/or maintained and lighted merchandise display(s) within a display zone of approximately four feet in depth from the glass.

Encroachments within the forecourt, such as balcanies, galleries, awnings, signage and light fatures are allowed up to 1/3 the width and depth of the forecourt.

#### a. Elements

- Minimum clearances for signs, awnings, etc. vertical: 8' from sidewalk: horizontal: width of sidewalk.
- The term "clear" means that the identified area is the limit of the adjacent enclosed "conditioned" floor space.



illustrative Photo: Forecou



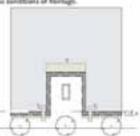
Asonometric Diagram: Forecourt



Section Diagram: Forecourt

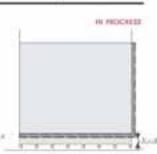








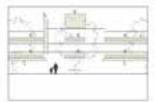


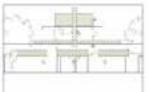




Allowed Improves to the world by Predict was well are request to the or between of column.



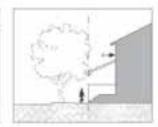


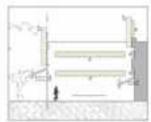






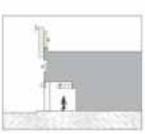












#### гвомпімационон гвомпься

#### 1. Location Requirements

	Allowed - Y ; N	OCABinetic n.m.	
pis	1109	(America)	
pai.	Red		
M	Maripiet.		
ŧΓ	hering	1.7	
įĒ.	Projecting		
10	194		
60	No. of Property		

#### STOCK PROPERTY

#### 1. Location Requirements: Allowed a V., Nor Allowed in a

ec is	1188	-	neries .
	No.		
N:	Maraiser		
ii.	destring		
4	Projecting.	1	
16.	TNT.		

#### PORECOURT PROVINCE

#### 5 Liteation Requirements Allowed with the Alborration

100	F188	Minners.
34	Roof	
H	Marquisi	
韶	Austrig	. 7.
181	Projecting	
莊	W.	7

#### SHOPPRONT PROPERCY

#### s. Lacation Requirements:

ж	1799	\$ filtrospins
×	April .	- 1
H.	Mariner	- 4
ī	being	- 4
ă.	Projecting :	16
H.	THE .	-
ď.	Seof Reels	

#### CALLEST PROMINCE

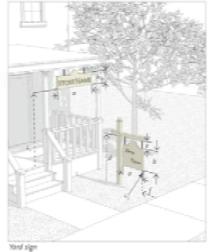
#### s. Sociéties Requirements

	Allowed a X . Not All	bed-e-
1813	7198	(Fines)
141	Aid.	97.
Ħ.	Mariant	4
Ш	Aurica	
14	Anjaring	4
101	TOTAL CO.	
60.7	Selfron	

#### ARCADE FROATNOE

#### 5. Liteation Requirements:

Allowed a Y ; Not Allowed a a. in forf thereon Property (Sale (and Year)



Type	Standards
TERM	(MIN/MIX)
(4)	y6" max
(9)	2g" max
80	12" min
[12]	E'min
(4)	5' max
[6]	10" max
6	ra* min
Signs per	Building 1 max



Type	Standards	
WALL MO	UNITED (M IN(MAX)	
(4)	width of storefront	
(%)	24° mar	
(1)	18" max, up to 1 sq. ft. per linear ft. of store frontage	
Mounting	SE:	18
	y; above rot floor seindows. c between windows or	

restry, solver lot noor windows, multi-story between windows or above upper-most floor.

Signs per Building: 1 per store.



ROOF MOUNTED (MINI/MAX)				
(4)	25" 1124			
(5)	6' max			
(4)	15' max			
(4)	15' max			
(c) feature area:	max 120 sq/ft			
available as a feature area above primary sign area sub- ject to city council approval				
Signs Per Building: 1 max (not allowed with a marques sign)				
Signs Per Zone: o in Center Zone an	only allowed dienly a such			
signs allowed.				

-		
	4-1-1-1-1	
		Annual Control
	Charles and the second	3
		46-4-11
No.		
3		
1 4		
	10 1610	
- 0	1	
A THE RESIDENCE OF		
		and the same of th
1 79	The state of the s	STORES
	201	INVENTOR .
1	- 中 ココ	75.50
41	- 74 :	LA I
200		(PT   21)
	The same of the sa	
		1 1 16
1 1	1	
1		March 1
10.00	- 61	
- 4		
		Market Company
		18
	~ ~	1
	- 4	

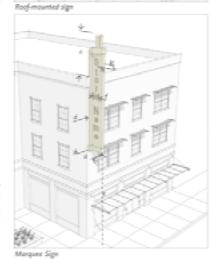
Auring Sign

Туре	Standards
DENING	(MINI,MIS)
(4)	20" mar() ()
(9)	18" max
(2/)	10" max
(c) feature a	resc 6 sq. ft. max
(4)	max 90% of 'V'
(r)	8' min[s]
(6)	within all off curt
[i] within sta	orefront bay
[a] see urban addition	r standards 4.4 for al height standards
Signs Per Bu	aldings a personing

		111111
	h	*
	Strations b	STORE NAME 5
	S. C.	→ a A2
hojecting Sign		

PROJECTING	(MINI,MAX)
90	48° max
Ø8	30° max
80	35° max
(4)	ng" max
(4)	E min

Standards



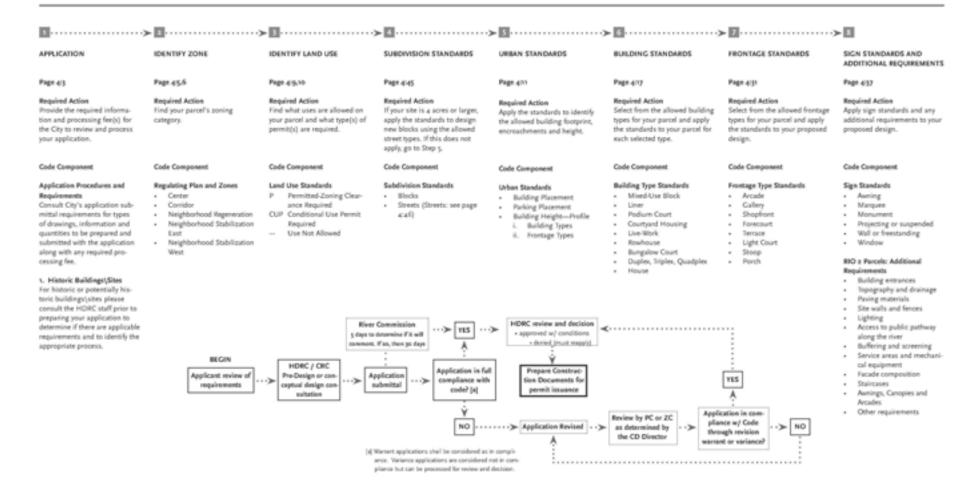
Туре	Standards
MARQUEE	(MINIMAR)
66	E ma(t)
(9)	24" max
(c)	10° maii
	with corner or be nywhere on wall
96	tg" min
ñ	mai gotk of W
allowed with	
[1] to within ;	of curb

Chapter 4: The Code 46 SION STANDARDS CONTROL OF STANDARD CONTROL OF STANDARDS CONTROL OF STA

#### 4.1 APPLICABILITY OF CODE

#### 41.010 ORGANIZATION AND USE OF CODE

The following chart illustrates the contents of the code, the type of information in each component and the required action(s) by an applicant. This is a summary and subject to the actual processing and review by the City of San Antonio.



# **Owning the Code**

• Establish the appropriate level of regulation with agency staff

Making a clear and sequential transition to the future

Help establish comfort and fluency with the code

Clearly link the code to the existing regulatory system

# Moule & Polyzoides

**Architects and Urbanists** 

Mparchitects.com

626-844-2400

Aperez@mparchitects.com