Melrose Arch – Phase 1

	Areas
'Corporate Offices' – (Up to 180 000 sq ft in one building)	399 500 sq ft
'Multi-Use Offices' – (suites of 1 000 sq ft upwards in small buildings	
with direct access to lift lobby and street address	
i.e. no long corridors)	150 400 sq ft
Service-type Retail	28 100 sq ft
Restaurants	41 900 sq ft
Entertainment (Theatre)	13 800 sq ft
Health Club	40 500 sq ft
Business Hotel & Conference Facility	65 000 sq ft
Creche	4 500 sq ft
Post Office	1 000 sq ft
Residential Penthouses (over offices) – 11 No.	43 500 sq ft
Residential Apartments – 33 No.	80 000 sq ftj

Melrose Arch

- Location: Johannesburg, South Africa
- Size: 18 Hectares (135-190 residential units, 2,820,000 sq ft commercial planned)
- Status: Phase I complete (Construction began in 1998)

• Summary:

The project is a private initiative by a Pension Fund as a long-term property investment. Initially conceived in the early 1990s as a shopping centre/business park, the concept has been enriched by embracing the principles of New Urbanism to create a neighbourhood development.

Phase I, now complete, was consciously developed as a 'microcosm of the whole' incorporating as many elements of mixed use as possible – including residential, offices, retail, restaurants, theatre, a hotel etc. These uses are incorporated in a plan that consists of eleven 4 storey perimeter-block buildings arranged around interconnected pedestrian-orientated streets, including the first lengths of a High Street, a completed 'boulevard' and two public squares. In order to achieve the required density of development a 'Superbasement' runs under all this accommodating 2619 parking spaces. The urban form is traditional while the architecture is modern. Melrose Arch is a commercial success commanding the highest rents in South Africa.

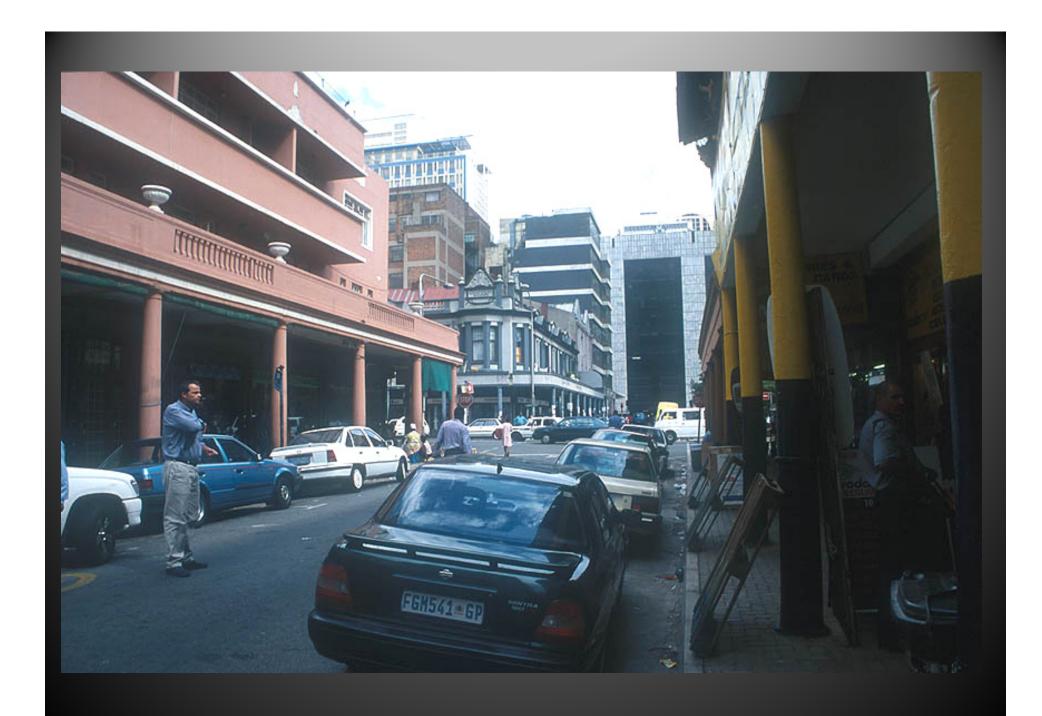


South Africa. Colonial influence



Johannesburg today







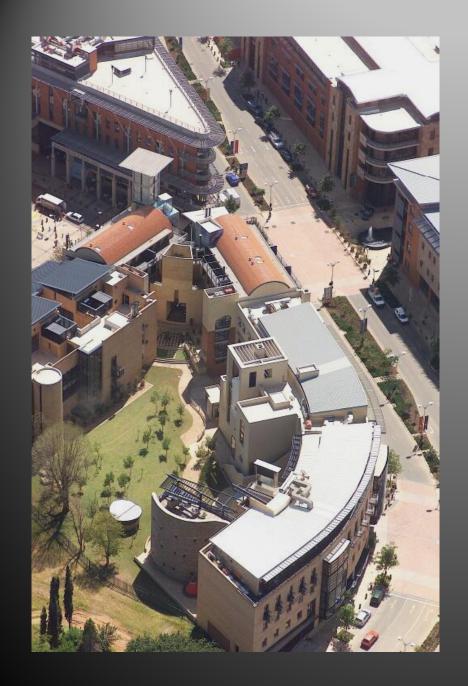
Melrose Arch. Adjacent Office Park

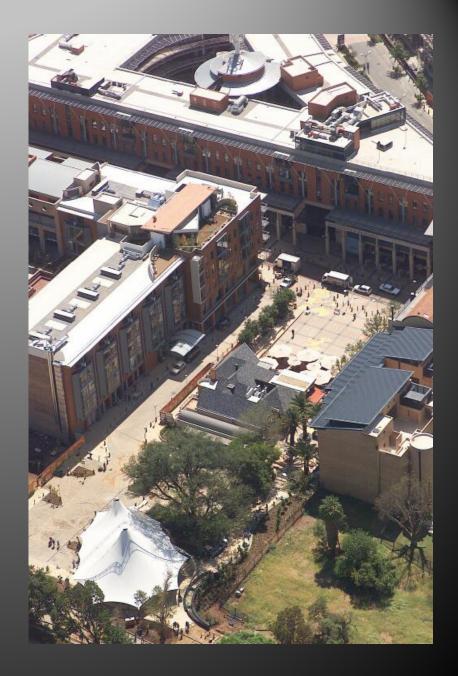


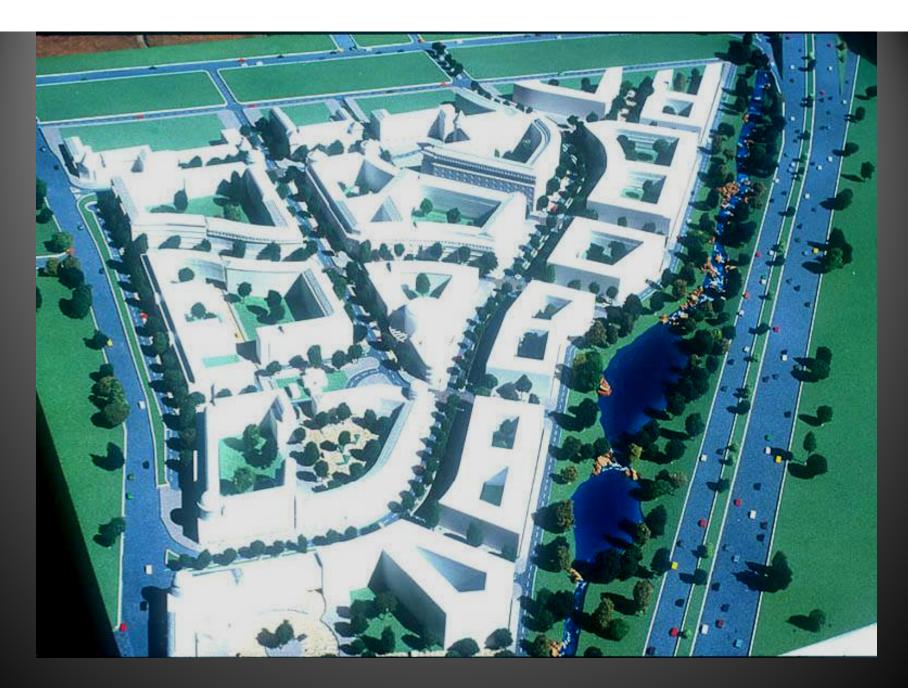




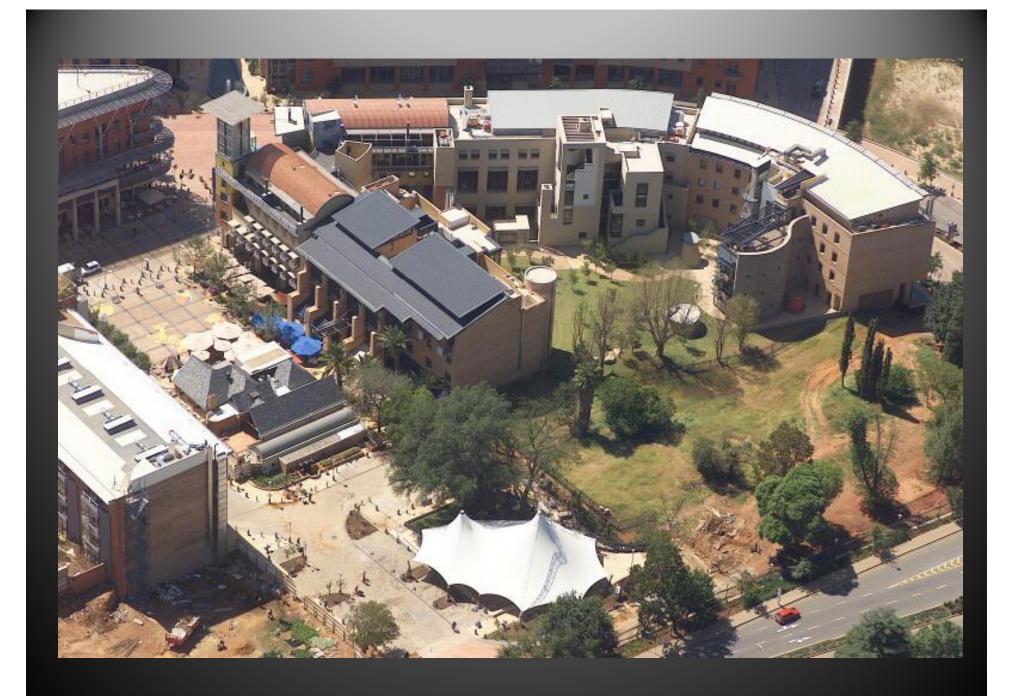
Melrose Arch Phase One







Beware Misinterpretation







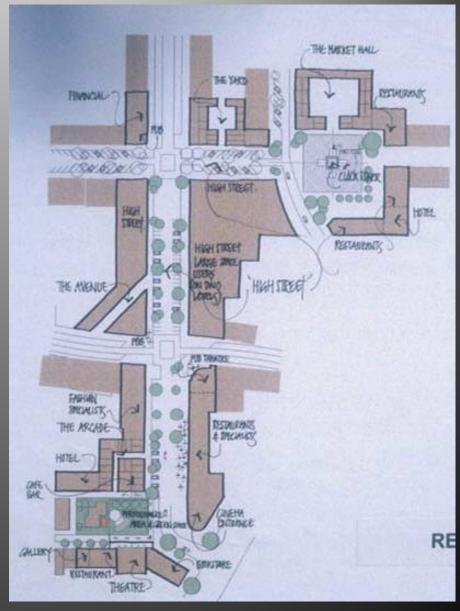




Main Street



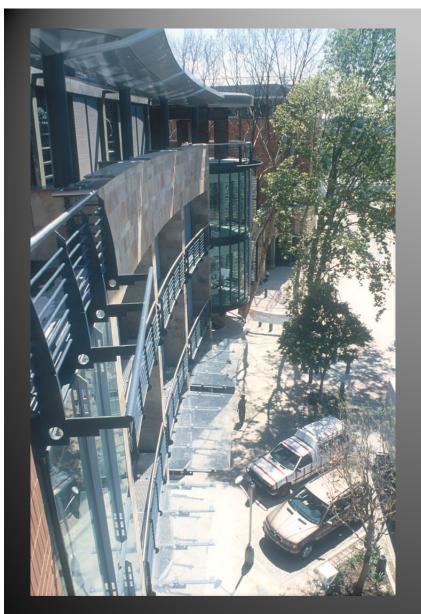




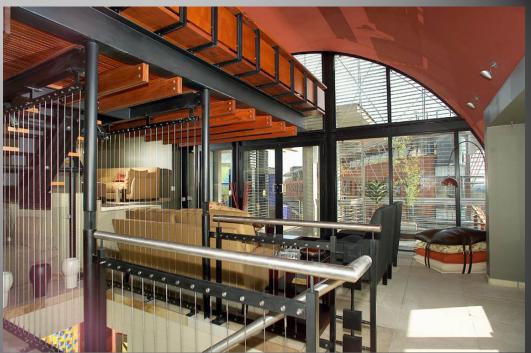














Acreage: + 45 acres

Number of Residential Units: 9 implemented; 33 under construction

135-190 planned

Commercial Square Footage: Phase 1: - 731 980 sq ft

Complete all phases: - 2 820 000 sq ft

Industrial Square Footage: 0

Parks/Open Space: - 2 Squares/Pocket Park inside development

area: 2 acres

- Public Open Space along Watercourse

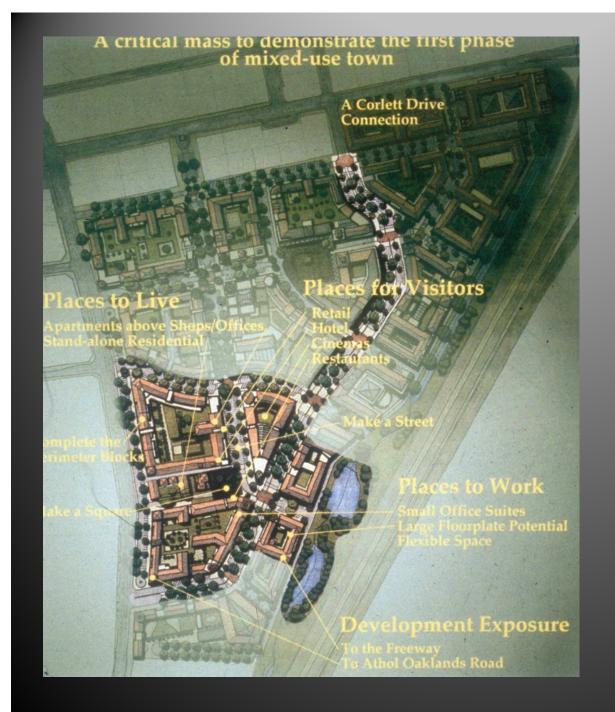
adjacent to development area: 9 acres

Civic Uses: 0

Project Cost (optional): Phase 1: - US: \$100 million

Complete all phases: - \$400 million (final)

Location of project: Johannesburg, South Africa

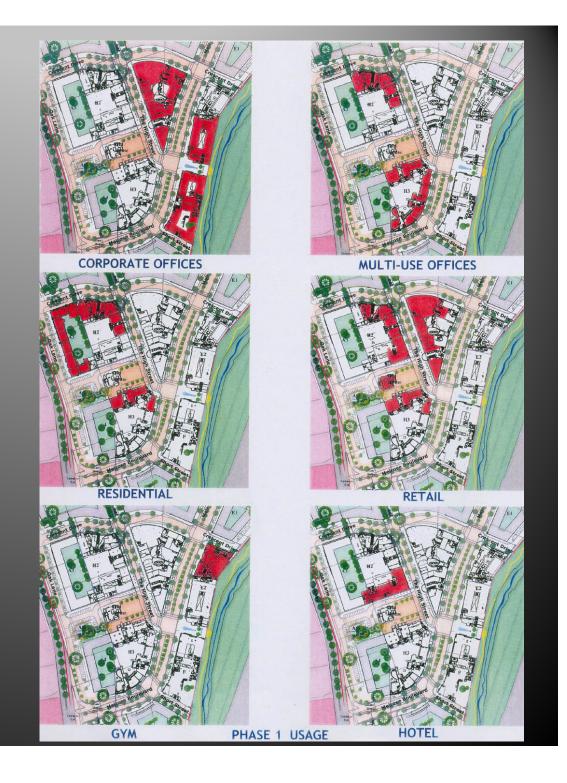


1st Phase

11 buildings put out to invited competition, with the code

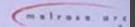


Melrose Arch – Phase 1 Building Use





Perimeter Blocks - Defining and Creating a Public Domain





PARTITION BUILDINGS







PAVILION BUILDINGS 45 PERIMETER BLOCKS

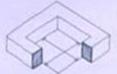
Pavilion buildings sit in indeterminate space, retreating from the public realm of the interconnected streets.

Perimeter Blocks define the public realm, only backing away from the street system to form focal nodes. This creates continuity of the streetscape which improves cohesiveness and assists the user interms of legibility and orientation.

Perimeter blocks also define a private realm that offers security, privacy and perceptual softness. The integrity of the 'walls' of the Perimeter Block assist in this regard.



DEPENSIBLE SPACE.



MAXIMUSED DINUNGROUS

former thru the High Rossi

PRIVATE DOMAIN PUBLIC DOMAIN

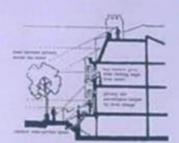
BANDSPRINT PARK

OLD HOUSE SQUARE

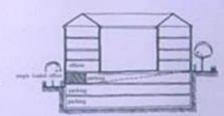
M1

Urban Design Rationale

- 1. Streets are vibrant when they are interesting and safe. They are safer when people inside can watch over those outside. They are more interesting when those outside feel some contact with people in adjacent buildings.
- 2. Locating buildings close to the pavement contributes to successfully achieving both the interest and the safety.
- Floor levels are adjusted to allow privacy. to office and residential uses.
- 4. The perimeter block gives a clear distinction between public and private space. Wasteful, ambiguous space does not exist.
- The vast majority of service functions are behind or below the buildings.
- 6. On the care occasion when levels dictate that basement parking faces the public street, single loaded offices are used to mask the presence of parking.
- A vital component of the public realm is active pavements. Where appropriate, they are up to 5m, wide, allowing activities to move out from the building if desired.

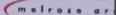


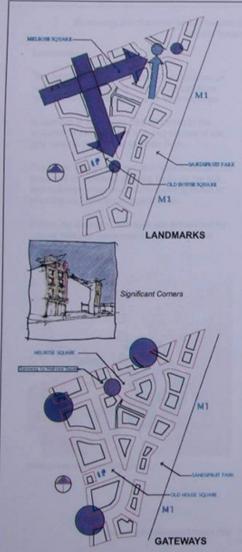






Strategic Locations - Enhancing Legibility





Legibility

Basic levels of legibility have been established by the pattern of streets, the concentration of activity on the High Street, and the two Squares.

Certain specific locations, however, demand a more detailed response at an architectural level.

Interest and intrigue are also enhanced by the use of significant elements that may form part of specific buildings.

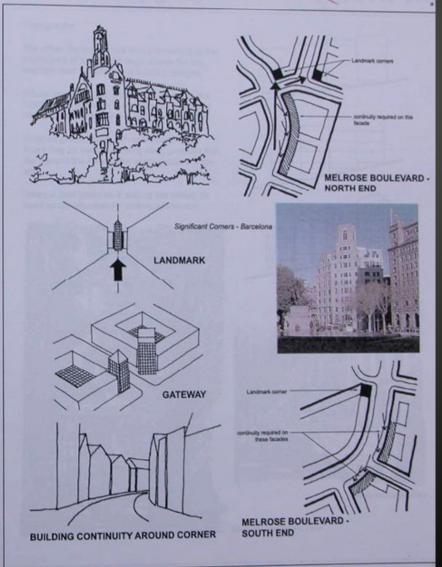
Landmarks & Gateways

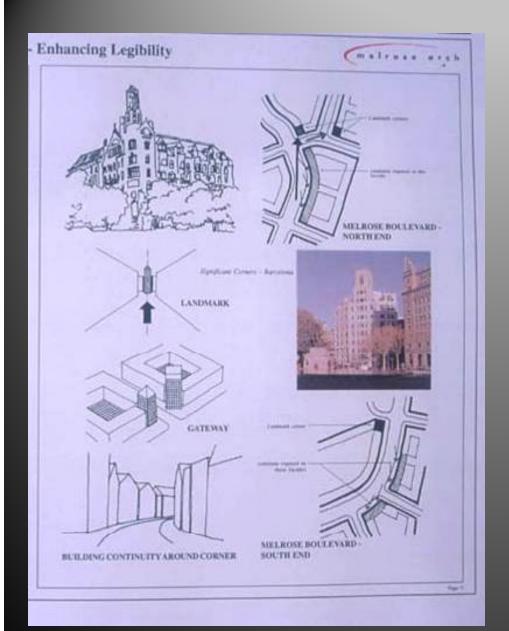
- Where a portion of a Building Site is identified as a Landmark the architect must create an element that responds to this location and significance without detracting from the overall requirement of the building location.
- Where a Building Site is identified as part of a Gateway the architect must acknowledge both the significance of the Gateway and the existence (if any) of other buildings relating to that Gateway.

Significant Facades

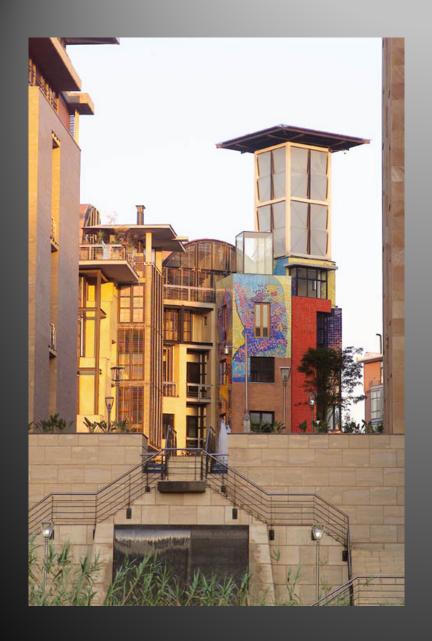
Certain facades have an important topological role to play, and must therefore display continuity of architectural treatment across individual buildings.

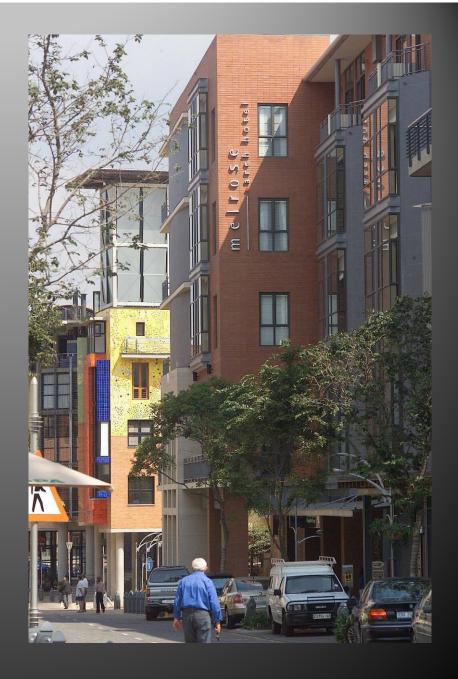
Specific examples of this occur in Melrose Boulevard, which is a major through-route for the Precinct and thus requires specific treatment on certain facades to direct the view and close off the extended vista.





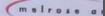








Building Design - Sustainability & Robustness



"... lively, diverse, intense cities contain the seeds of their own regeneration, with energy to carry over for problems and needs outside themselves."

Jane Jacobs, The Death & Life of Great american Cities

Traditionally buildings in cities changed use and form whilst the public realm stayed constant and coherent. That combination of efficiency and flexibility can be created again without discouraging or delaying investment in the public spaces.

The fine grained grid gives many options to phase and to manage construction access.

The dimensions of the blocks offer many alternatives whilst consistently creating public streets.

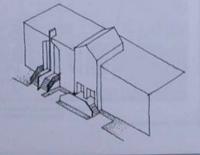
The basic footprints allow the urban design framework to remain, whilst uses respond to changing market demands.

The object is to promote the creation of robustness in building design - to develop buildings that respond to a current brief without compromising future potential.

- Structural flexibility is required, to accommodate varying space needs and loadings.
- Adaptability in facade element design is necessary - entrances, fenestration, building signage, etc.
- Ground floor areas adjoining public space (the Public Domain) must be occupied by 'active' rather than 'passive' uses.
- 'Hard' zones (cores and services) must be located in plan so as not to restrict alternative uses of 'soft' (functional) areas.
- Multiple entrances must be created to encourage interaction between private and public areas, and to improve planning adaptability.
- Shallow plans must be built to maximise the use of natural lighting.



ACCOMMODATING CHANGE



- 7. In locations where the privacy of ground floor activities should be preserved (apartment buildings for example), a level change between pavement and ground floor should be introduced. This serves the double function of reducing overlooking from outside while improving outlook from inside.
- Balconies on the public facades of all building types are required, as a means of allowing the Private Domain to interact with public areas and to enhance surveillance of the Public Domain.
- Ground floor apartments and offices should be entered directly from the Public Domain where possible, in order to enliven the building edge.



Active street front, Paris



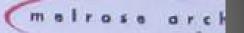
ACTIVE EDGES



Intil Housing. North Kensington, London



- Typologies



Building Depth

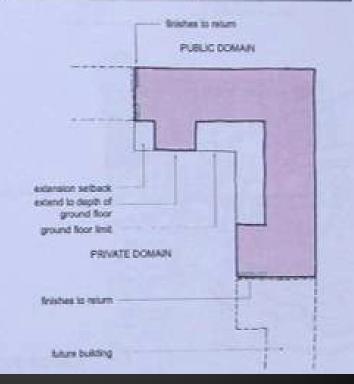
Preferred building depths are indicated in the Table. The intent in urban design terms is to maximise the dimensions of the Private Domains.

The dimensions given are measured to the inner face of external walls.

Extensions into the Private Domain are permitted, provided they fall within the following limits:

- Depth of extension may not exceed depth of ground floor in the case of ground floor retail zonings, or 10m. elsewhere.
- If an extension has openings facing across a boundary then a setback of 7.5m. is prescribed.
- If an extension occurs at the boundary adjacent to a future building, the finishing of the facade must return the depth of the extension along the shared boundary.

BUILDING FUNCTION	BUILDING DEPTH
Offices	12.0m.
Retail	17.0m.
Residential	10.0m.
Hotel	18.0m.
Entertainment	varies







Building Design - Facades





Core Series Louis

Introduction

A facular committees to arbee amounty as the nated that it provides apportunities for interaction between public and private realize.

Finades that are made up of a number of individual aluments enhance qualities of primatness and life, and assets with presenting a separate identity for the building.

At the same time the facule must respect the faculties as a component of the orien false, adding to the community of the sevent vilge and others are a fine whole.





Streng syrrous, nor & old braing. Depart Stories, American

Meanur Greek Physical

Components of Fecade Design

Vertical building expression

- . Facade broken into a number of small aferments
- * Vertical expression in window form

Projecting capuples

 Shop campion project beyond hold to line. For Moleone Arch campion may project in parament edge.

Active building from

- Enhancing the levels of activity in the Public Domain.
- . Making buildings more robust

Community to sulps to Public Domain

- . Committy of facade slong huild-to line
- . Continuity of saves line

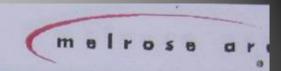


owned Samer Strade



Broppi at Higher Flinds, Expendages

- Facades



Components of Facade Design

Vertical building expression

- Facade broken into a number of small elements
- Vertical expression in window form

Projecting canopies

 Shop canopies project beyond build-to line. For Melrose Arch canopies may project to pavement edge.

Active building fronts

- Enhancing the levels of activity in the Public Domain
- Making buildings more robust

Continuity to edge to Public Domain

- Continuity of facade along build-to line
- · Continuity of eaves line



Bedford Square, London

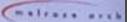


To achieve well-balanced compositions in which all elements are individually recognisable, and the whole acknowledges its position and role in the urban context.

	MATERIALS	CONFIGURATION	Train and the second se
FACADES	Facebrick, plastered or stone-faced as appropriate to facade design.	Visual character required is that of solid facades with individual window open Solid to void ratio should therefore be in the order of 65:35.	TECHNIQUE Mall design to demonstrate high energy efficiency
	Paint colour to be predominantly shades of white with earth-colour highlight permitted. All other colours subject to approval.	Expression of visual continuity along build-to lines.	Where a future building will be attached to the facade the materials and finis
	Applied panel materials may not exceed 10% of the facade area.	Setbacks and encroachments limited to 1.Sm. each, or as indicated on Land sheets.	the wall must be finished in a visually acceptable manner. Parcel
		Vertical expression required in facade detailing.	
	The Company of the Co	Visually solid building bases are required.	
		Cantilevered upper floors are not permitted.	
		Gable walls at boundaries must project a minimum of 0.5m. above a pitched	poof.
		Vertical controlling dimensions shown on Land Parcel sheets are to be used a minimum standard.	
WINDOWS	Frames powder-coated aluminium or timeber (painted or natural). Mirror glass is not permitted.	Visual character required is that of solid facades with individual window open Solid to void ratio should therefore be in the order of 65:35.	the percentage of opening may be increased on the top floor, where a limite horizontal strip glazing may be permitted subject to assessment panel appro-
	and particular and pa	No continuous strip windows - individually identifiable elements required.	
	Printer and the Printer Spinule	Curtain walling permitted only at entrances or for specific effect, and subject assessment panel approval.	to
SHOPERONTS	Frames powder-coated aluminium or timeber (painted or natural).	No continuous strip windows - individually identifiable elements required.	
	Glass to be heat-absorbing or heat heat-reflecting.		The second secon
	Mirror glass is not permitted.		
ROOFS	Pitched roofs to be finished with materials appropriate to the architectural of the facades of the building.		Where the roof is set back to form a terrace, the normal eaves lines must be maintained using beams or pergolas as appropriate.
	Flat roofs to have trafficable surfaces.	Maximum eaves overhang - 1 m.	
		Sculptural roof elements permitted to enhance entrances or at landmark situal (as identified on Land Parcel sheets), subject to assessment panel approval.	tions
BALCONES	As appropriate to the design of the facades.	Maximum projection to comply with encroachment lines for building site as do in site specific documentation.	Sheduse of balconies on street-facing facades is encouraged.
		Must be at least 2.5m. from adjoining building site boundary.	
		May be enclosed, open, projecting or recessed - subject to limits of setback a encroachment lines, and required continuity of facade along build-to line (if enclosed material should be transparent to ensure visual continuity of facade	
CANOPIES &	As appropriate to location and facade design.	Encouraged for ground floor retail frontages.	Canopies may be cantilivered or supported by a lightweight structure - subjet assessment panel approval.
5.010.0	Retractable canopy systems permitted.	Maximum canopy projection to full width of pavement.	assessment panel approval. Colonnades to be lightweight in structure and appearance, with steel or timbe
		Colonnades to be attached and to extend full width of pavement.	Colombaes to de agritweight in structure and appearance, with steel or union columns as appropriate to design. Use of upper surface as a terrace is lencouraged.
		Maximum height to underside of first floor slab.	encodaged



Building Design - Facades

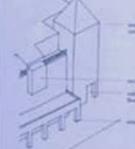


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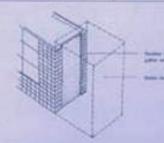






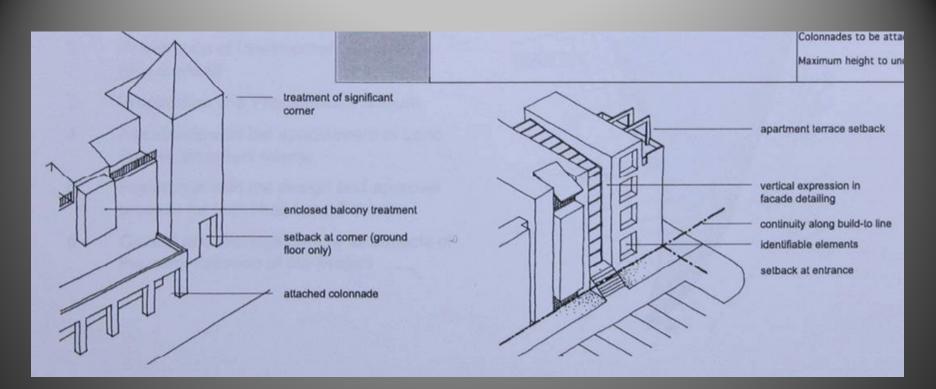




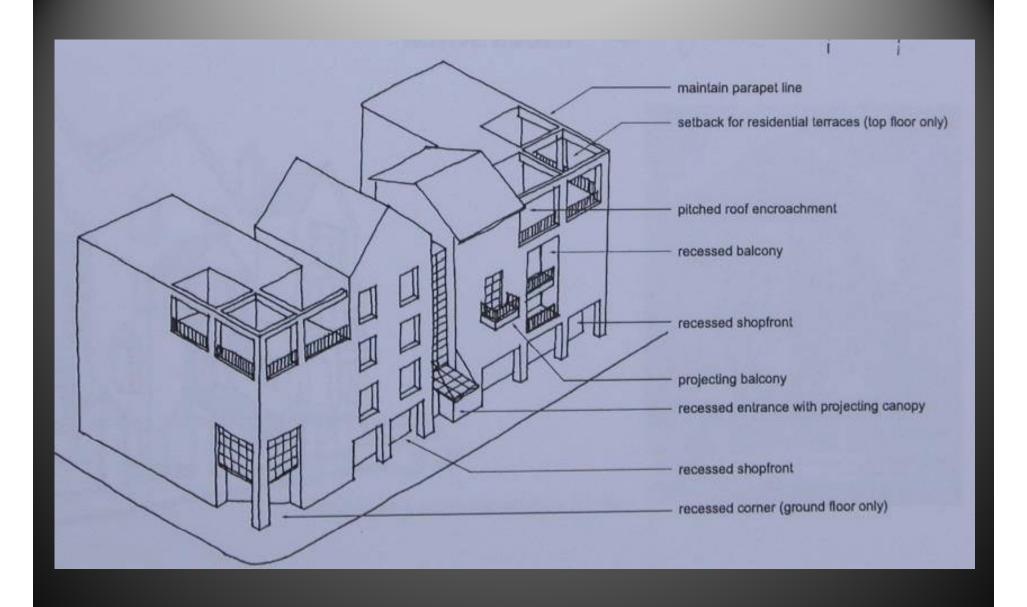


















H2 Land Parcel

Buildings

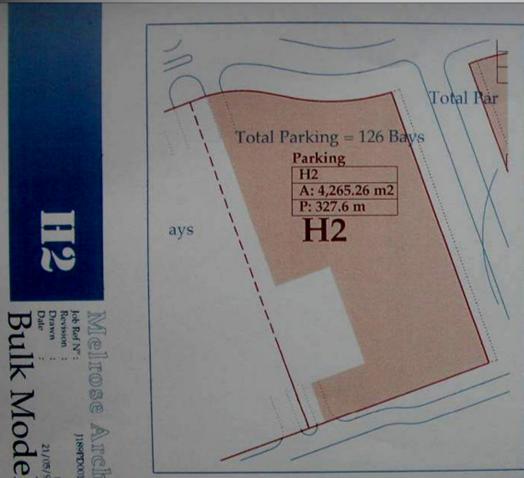
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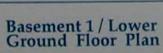
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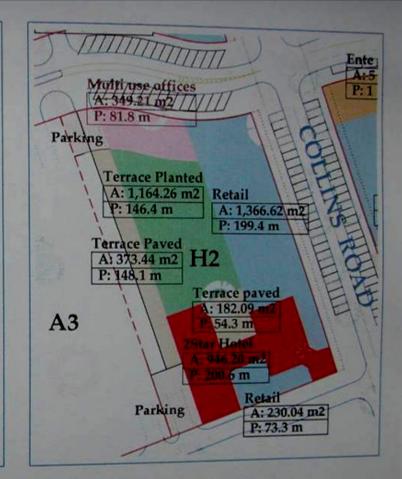
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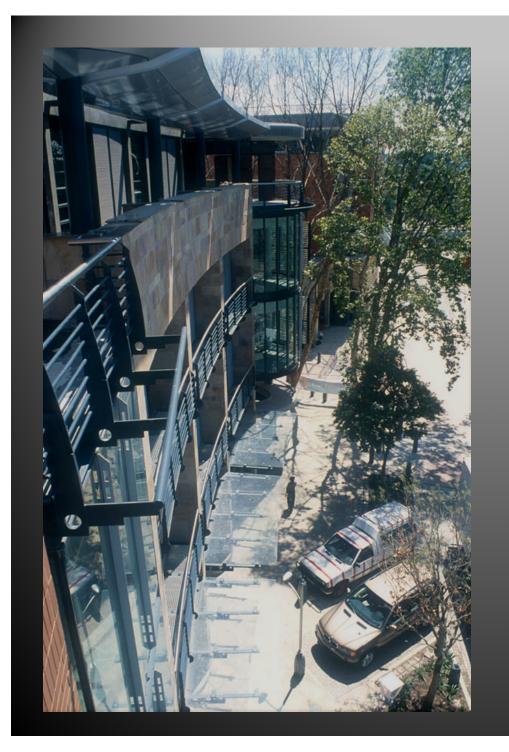


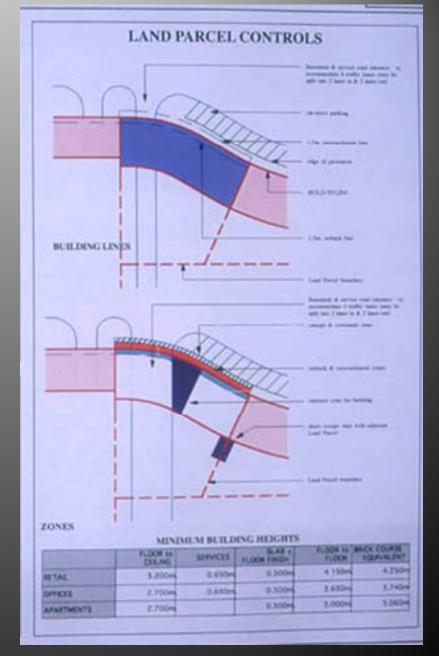


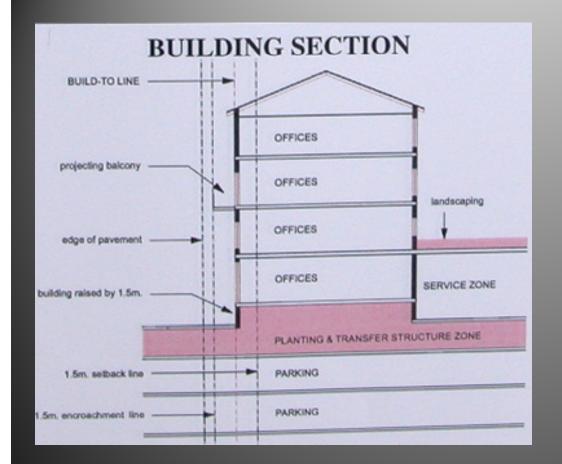


Ground Floor Plan









BUILDING DETAILS

PLACEMENT

- 1. Position of building to be as shown on adjacent plan.
- Substantial portion of street facades (80%) to lie on land parcel boundary (Buildto line).
- 3. Ground floor street frontage to follow parcel boundary.
- Variations to street facade line limited to setback and encroachment zones. No encroachment permitted at ground floor level.
- 5. Building facade facing Old House Square to step by 3m. as shown.

ELEMENTS

- 1. Projecting balconies to occur within encroachment zone.
- 2. Recessed balconies to occur within setback zone.
- If canoples and attached colonnades are provided they are to occur within the zone indicated on the adjacent plan.
- Attached colonnades must be lightweight in structure and appearance, and must extend the full width of the pavement. Provision to be made to use roof as First Floor terrace.
- 5. Building must provide direct access to Basement parking for tenants.

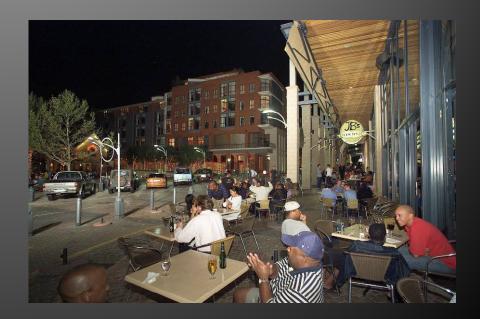
FUNCTIONS

- 1. Specialist Retail.
- 2. Small floor plate Offices.
- 3. Luxury Apartments.

Melrose Arch. Code: Placement, Elements, Function.

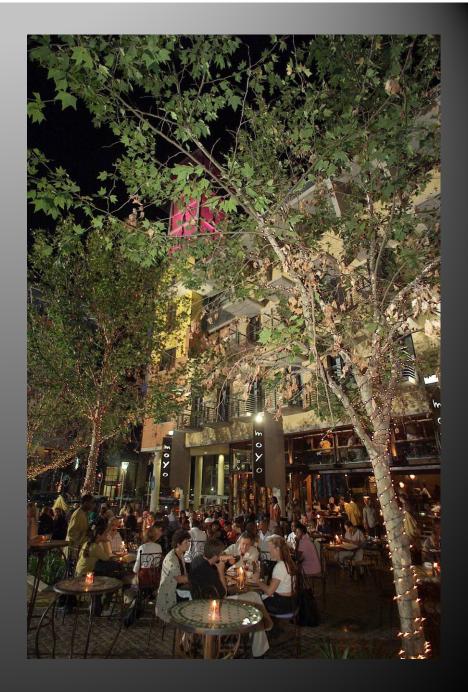




















Beware new owners Beware Phase 2











Lose the street wall you lose the street Lose the street you lose the City Lose the city you lose civility











SKETCH VIEW OF PHASES 4 & 5 LOOKING EAST DOWN WHITELEY ROAD



