	University of Pretoria etd - Mc Dona	agh, B (2003)
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### BEST PRACTICE an uRBAN vILLAGE KEW BRIDGE LONDON

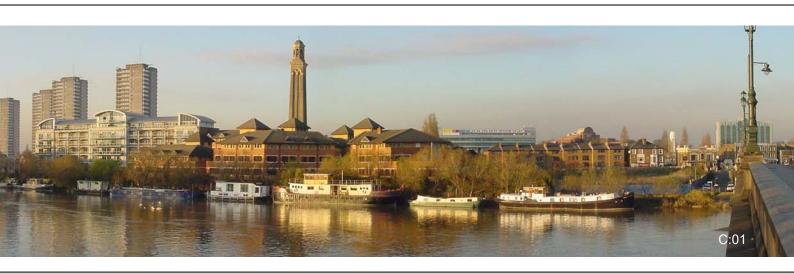
# SUBMITTED BY BERNARD MC DONAGH UNIVERSITY OF PRETORIA

MENTOR PROF SCHALK LE ROUX

DESIGN PROJECT DISCOURSE SUBMITTED IN FULFILMENT OF PART
OF THE REQUIREMENTS FOR THE
DEGREE MAGISTER IN ARCHITECTURE (PROFESSIONAL)
IN THE FACULTY OF ENGINEERING, BUILT ENVIRONMENT AND
INFORMATION TECHNOLOGY

UNIVERSITY OF PRETORIA
DEPARTMENT OF ARCHITECTURE

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Shelter is one of mans most basic needs and the progression of its development over time has had to deal with an ever increasingly complex world that even now places renewed demands on the way we build, live, and work.

The location of the site is at Kew Bridge, London, United Kingdom. It is at the important landmark junction of Kew Bridge north circular road and Kew Bridge road, with the immediate context consisting of 3 to 4 storey high built fabric to the north and west boundaries of the site. The Kew Bridge road slipway forms the eastern boundary of the site adjacent Kew Bridge, and the River Thames forms the southern boundary of the site.

The aim of the project is to evaluate the existing condition of high-rise residential developments and to compare this to leading environmentally sensitive projects, which utilise sustainable development strategies and renewable energy sources. These strategies and energy sources will be applied in the residential high-rise typology in the form of the Kew Bridge Urban Village.

1-0	INTRODU	CTION	
 2-0	LOCALITY		
 3-0	QUALITY	ENVIRONMENTS	
	3:1 3:2	Connections Quality and Value	
 4-0	PRECEDE	ENTS	
	4:1 4:2 4:3	Habitat 67 - Montreal  BedZED - Beddingtor  4:2:1  4:2:2  4:2:3  4:2:4  4:2:5  4:2:6  4:2:7  4:2:8  Kew Bridge Housing -	Energy Grading Zero Heating Homes Building Physics Building Masing and Orientation Bio Fuelled Combined Heating and Power [ CHP ] Photovoltaics Clean Water Materials
5-0		RESPONSE	New Bridge London
J-0	5:1		Village - Kew Bridge London  Character  Quality of the Public Realm
	5:2	5:1:4  Design Resolution 5:2:1 5:2:2 5:2:3 5:2:4 5:2:5	Continuity and Enclosure  Diversity  Lighting Access to Green Outside Social Spaces Build-ability Heating and Cooling System
6-0	5:2	5:1:4  Design Resolution 5:2:1 5:2:2 5:2:3 5:2:4 5:2:5	Diversity  Lighting Access to Green Outside Social Spaces Build-ability
6-0 7-0	CONCLUS	5:1:4  Design Resolution 5:2:1 5:2:2 5:2:3 5:2:4 5:2:5	Diversity  Lighting Access to Green Outside Social Spaces Build-ability
		5:1:4  Design Resolution 5:2:1 5:2:2 5:2:3 5:2:4 5:2:5  SION	Diversity  Lighting Access to Green Outside Social Spaces Build-ability

C-0	COVER P	AGE
	C:01	View of site from adjacent river bank - [Nick James 2002]
	INITEGERIA	OTION.
 1-0	INTRODU	CHON
	1:01	Aerial view of site - [Author 2003]
2-0	LOCALIT	v
	2:01	World Atlas - [Contemporary World Atlas]
	2:02	British Isles - [Contemporary World Atlas]
	2:03	Greater London - [Contemporary World Atlas]
3-0	QUALITY	ENVIRONMENTS
	3:01	Trees in Pretoria - [Author 2002]
	3:02	Trees in Finland 1 - [Author 2000]
	3:03	Interconnectedness - [Web of Life 1996]
	3:04	Connections - [Author 2003]
	3:05	London street scape - [Author 2001]
	3:06	Trees in Finland 2 - [Author 2000]
 4-0	PRECEDE	ENTS
	4:1:01	Pretoria Sky - [Author 2002]
	4:1:02	Basic stacking system for Habitat - [Beyond Habitat 1970]
	4:1:03	Cross section of Habitat - [Beyond Habitat 1970]
	4:1:04	Crane lifting modular unit Habitat - [Beyond Habitat 1970]
	4:1:05	3D modular building system - [Beyond Habitat 1970]
	4:2:01	BedZED - [Arup Journal 2003]
	4:2:02	Use of Materials - [Arup Journal 2003]
	4:2:03	Interior of BedZED 1 - [Arup Journal 2003]
	4:2:04	Building physics - [Arup Journal 2003]
	4:2:05	Mechanical and Electrical systems - [Arup Journal 2003]
	4:2:06	Bio fuelled Combined Heating and Power - [Arup Journal 2003]
	4:2:07	Photovoltaics and wind powered ventilation - [Arup Journal 2003]
	4:2:08	Sunset - [3D max image]
	4:2:09	Interior of BedZED 2 - [Arup Journal 2003]
	4:2:10	Interior of BedZED 3 - [Arup Journal 2003]
	4:2:11	Interior of BedZED 4 - [Arup Journal 2003]

4-0	PRECEI	DENTS
	4:3:01	BM Sketch proposal - [BM Architects 2002]
	4:3:02	BM Ground floor plan - [BM Architects 2002]
	4:3:03	BM Typical floor plan - [BM Architects 2002]
	4:3:04	BM Elevation - [BM Architects 2002]
5-0	DESIGN	IRESPONSE
	5:1:01	Sketch proposal Urban Village - [Author 2003]
	5:1:02	Urban studies Character - [Brief document 2003]
	5:1:03	Urban Village model - [Author 2003]
	5:1:04	Urban Studies Quality of Public Real - [Brief document 2003]
	5:1:05	Public movement - [Author 2003]
	5:1:06	Urban Studies Continuity and Enclosure - [Brief document 2003]
	5:1:07	Public and Private Realms - [Author 2003]
	5:1:08	Urban Studies Diversity - [Brief document 2003]
	5:1:09	Community zone - [Author 2003]
	5:1:10	Retail zone - [Author 2003]
	5:1:11	Residential zone - [Author 2003]
	5:2:01	Plan 2 bedroom unit A - [Author 2003]
	5:2:02	3D model 2 Bedroom unitA - [Author 2003]
	5:2:03	3D model 2 Bedroom unitA - [Author 2003]
	5:2:04	Locality of Block B - [Author 2003]
	5:2:05	Internal Light study unit A - [Author 2003]
	5:2:06	Kew Gardens - [Broadway Malyan From the Air 2000]
	5:2:07	South west view of Urban Village - [Author 2003]
	5:2:08	South east view of Urban Village - [Author 2003]
	5:2:09	1166-3276A - [Metamorphosis 2001]
	5:2:10	<u>12</u> 92-181 - [Metamorphosis 2001]
	5:2:11	834-1010 -[Metamorphosis 2001]
	5:2:12	Social gathering zones - [Author 2003]
	5:2:13	Typical structural diagram - [Author 2003]
	5:2:14	Cooling reticulation diagram - [Author 2003]
	5:2:15	Heating reticulation diagram - [Author 2003]
6-0	CONCL	USION
	6:01	Spikes on the ground - [Author 2002]