

UNIVERSITI PUTRA MALAYSIA

PLACE ATTACHMENT TOWARDS SHOPPING DISTRICTS IN KUALA LUMPUR CITY CENTRE, MALAYSIA

NORSIDAH UJANG

T FRSB 2008 1



PLACE ATTACHMENT TOWARDS SHOPPING DISTRICTS IN KUALA LUMPUR CITY CENTRE, MALAYSIA

By NORSIDAH UJANG

Thesis Submitted to the School of Graduate Studies, Universiti Putra Malaysia, In Fulfilment of the Requirements for the Degree of Doctor of Philosophy

January 2008



DEDICATION

In the Name of Allah swt., I dedicate this work to:

Those who love good and meaningful places and find peace in them

Those who believe that we can make better places in this world

Those who have special place in my heart: my beloved husband, my son and my parents

and

The ONE who has created this PLACE and always PRESENCE in the course of the search of His knowledge



Abstract of thesis presented to the Senate of Universiti Putra Malaysia in fulfilment of the requirement for the degree of Doctor of Philosophy

PLACE ATTACHMENT TOWARDS SHOPPING DISTRICTS IN KUALA LUMPUR CITY CENTRE, MALAYSIA

By

NORSIDAH UJANG

January 2008

Chairman: Kamariah Dola, PhD

Faculty

: Design and Architecture

One of the urban design issues concerning Kuala Lumpur is the weakening of the city identity. Changes in the city's physical environment and the subsequent shift in the users' perception will continue to be translated into interventions that proved to have altered the urban fabric and disrupted its sense of place. Concurrently, place meanings and attachment are diminishing. In urban design research, much has been discussed on the significance of the physical elements and activities in creating the sense of place and identity; however the role of place attachment as a component of place that gives meaning(s) has not been adequately explored. The aim of the research is to examine place attachment of users from selected places within the city centre of

Kuala Lumpur and its associated meanings and influencing factors.

The research adopted a mixed methodological approach and strategy in data collection and analysis. Surveys and face-to-face interviews were conducted with users of three selected shopping districts comprising four main shopping streets of Kuala Lumpur to elicit relevant data. The streets are Jalan Tunku Abdul Rahman (JTAR) together with Jalan Masjid India (JMI), Jalan Petaling (JP) and Jalan Bukit Bintang (JBB). A total of 330 randomly selected respondents participated in the survey and 36 purposely chosen respondents were interviewed in the locations. Systematic field observation was carried out to gather evidence of the actual scenes of the places. Urban character appraisal was done to determine the capacity of the places to support users' activities based on performance indicators established by the researcher. Multiple sources of evidence are gathered, analysed and triangulated and the findings of the research were derived from the convergence of the data.

The research has found that place attachment influences the users' perception of the shopping streets. The places were not only identified based on the quality of the physical elements and diversity of human activities but also based on the attachment and meanings associated with the experience of the places. The form and degree of attachment to the places were influenced by the level of familiarity, the length of engagement, the degree of economic dependency, the role of the users and the ethnic background. The research has established that in securing local place identity, place attachment is one of the factors that should be considered in the design of urban places in Malaysia.



Abstrak tesis yang dikemukakan kepada Senat Universiti Putra Malaysia sebagai memenuhi keperluan untuk ijazah Doktor Falsafah

IKATAN TEMPAT PENGGUNA TERHADAP KAWASAN MEMBELI-BELAH DI PUSAT BANDAR KUALA LUMPUR, MALAYSIA

Oleh

NORSIDAH UJANG

January 2008

Pengerusi: Kamariah Dola, PhD

faktor-faktor yang mempengaruhinya.

Fakulti

: Rekabentuk dan Senibina

Salah satu daripada isu rekabentuk bandar bagi Kuala Lumpur ialah identiti bandarnya yang semakin lemah. Perubahan fizikal persekitaran dan perubahan persepsi pengguna terhasil dari perubahan kepada fabrik (rupa bentuk) bandar dan suasananya. Dalam masa yang sama, makna tempat dan ikatannya dengan pengguna semakin terhakis. Dalam kajian rekabentuk bandar, banyak perbincangan telah dibuat mengenai kepentingan elemen fizikal dan aktiviti dalam membina suasana dan identiti tempat tetapi kajian tentang ikatan tempat masih tidak banyak diterokai. Matlamat kajian ini adalah untuk meneliti ikatan dan persepsi pengguna terhadap tempat-tempat terpilih di pusat bandaraya Kuala Lumpur, kaitannya dengan makna dan

Kajian ini menggunakan pendekatan dan strategi kuantitatif dan kualitatif didalam pengumpulan dan analisis data. Untuk mendapatkan data yang berkaitan, kajiselidik dan temubual secara bersemuka telah dijalankan dengan pengguna dari tiga tempat terpilih yang mengandungi empat jalan membelibelah utama di pusat bandar Kuala Lumpur. Jalan-jalan tersebut ialah Jalan Tunku Abdul Rahman (JTAR), Jalan Masjid India (JMI), Jalan Petaling (JP) and Jalan Bukit Bintang (JBB). Seramai 330 responden dipilih secara rambang mengambil bahagian didalam kajiselidik tersebut dan 36 responden terpilih ditemubual dilokasi tersebut. Pemerhatian tapak secara sistematik telah dilakukan bagi merekodkan karakter fizikal dan visual jalan. Berdasarkan petunjuk kualiti yang dibentuk oleh pengkaji, penilaian karakter bandar dibuat untuk mengetahui tahap keupayaan tempat tersebut memenuhi aktiviti pengguna. Data kajian dari pelbagai sumber dikumpulkan dan dianalisa menggunakan kaedah triangulasi dan penemuan kajian adalah diperolehi dari hasil pertemuan data-data tersebut.

Kajian mendapati bahawa ikatan tempat mempengaruhi persepsi pengguna terhadap jalan membeli-belah tersebut. Tempat tersebut tidak hanya dikenali berdasarkan kualiti fizikalnya tetapi juga melalui ikatan dan maknanya terhadap pengguna dan pengalaman mereka ditempat tersebut. Bentuk dan tahap ikatan tempat tersebut dipengaruhi oleh tahap kebiasaan, jangkamasa hubungan, tahap pergantungan, peranan pengguna dan latarbelakang etnik. Kajian ini telah membuktikan bahawa ikatan tempat boleh menjadi salah satu



faktor yang perlu diambilkira di dalam mereka bentuk sesuatu tempat di Malaysia jika sekiranya ingin memelihara identiti setempat.



ACKNOWLEDGEMENTS

I would like to acknowledge and deeply appreciate the contribution of the supervisory committee members for their guidance in the preparation of the thesis. Dr. Kamariah Dola (the Chairman), Professor Dr. Elias Salleh, Associate Professor Dr. Azizah Salim Syed Salim and Associate Professor Dr. Shuhana Shamsuddin have been cooperatively supporting me through the course of the research with valuable insights and critical comments.

I wish to thank the respected officials from Dewan Bandaraya Kuala Lumpur (DBKL) namely En. Juminan Samad, Assistant Director, Jabatan Rekabentuk; En Ruhaizan Ahmad, Assistant Director, Unit Pengekalan Seni Bandar and En. Sulaiman Muhamad, Planning Officer, Jabatan Pelan Induk for their willingness to be interviewed. They have provided vital background information regarding the city centre development of Kuala Lumpur and related urban design concepts and strategies adopted in improving places within the areas.

I am also grateful to Dr. Dolbani Mijan, Director, Unit Hal Ehwal Korporat, Jabatan Perancangan Bandar dan Desa (JPBD) Semenanjung Malaysia for his interest in the research and his willingness to share knowledge and experience on planning and urban design related to Kuala Lumpur.



My appreciation goes to the Dean of Faculty of Design and Architecture, Universiti Putra Malaysia and the rest of the faculty members for their support and interest in the research and those who have assisted me in gathering the research materials.

Last but not least, my deepest appreciation goes to my husband Zulkifli bin Muslim for his continuous encouragement for me to persevere and successfully complete the thesis and taught me to see each step of the process in the right perspective.



I certify that an Examination Committee has met on 15th January 2008 to conduct the final examination of Norsidah Ujang on her PhD thesis entitled "Place Attachment Towards Shopping District in Kuala Lumpur City Centre" in accordance with Universiti Pertanian Malaysia (Higher Degree) Act 1980 and Universiti Pertanian Malaysia (Higher Degree) Regulations 1981. The Committee recommends that the candidate be awarded the degree of Doctor of Philosophy.

Members of the Examination Committee were as follows:

Osman Mohd Tahir, PhD

Faculty of Design and Architecture Universiti Putra Malaysia (Chairman)

Mustafa Kamal Mohd Shariff, PhD

Professor Faculty of Design and Architecture Universiti Putra Malaysia (Internal Examiner)

Norbaya Ahmad, PhD

Faculty of Human Ecology Universiti Putra Malaysia (Internal Examiner)

Julaihi Wahid, PhD

Associate Professor Faculty of Housing, Building and Planning Universiti Sains Malaysia (External Examiner)

HASANAH MOHD GHAZALI, PhD

Professor/Deputy Dean School of Graduate Studies Universiti Putra Malaysia

Date: 21 February 2008



This thesis was submitted to the Senate of Universiti Putra Malaysia and has been accepted as fulfilment of the requirement for the degree of Doctor of Philosophy. The members of the Supervisory Committee were as follows:

Kamariah Dola, PhD

Lecturer Faculty of Design and Architecture Universiti Putra Malaysia (Chairman)

Elias Salleh, PhD

Professor Faculty of Design and Architecture Universiti Putra Malaysia (Member)

Azizah Salim Syed Salim, PhD

Associate Professor Faculty of Design and Architecture Universiti Putra Malaysia (Member)

Shuhana Shamsuddin, PhD

Associate Professor College of Science and Technology University Teknologi Malaysia (Member)

AINI IDERIS, PhD

Professor and Dean School of Graduate Studies Universiti Putra Malaysia

Date: 21 February 2008



DECLARATION

I hereby declare that the thesis is based on my original work except for quotations and citations which have been duly acknowledged. I also declare that it has not been previously or concurrently submitted for any other degree at UPM or other institutions.

NORSIDAH UJANG

Date: 4 February 2008



TABLE OF CONTENTS

CH	CHAPTER		
1	INT	RODUCTION	1
	1.1	Introduction	1
	1.2	Statement of issues	3
	1.3	Research questions	10
		Research aim	10
	1.5	Research objectives	11
	1.6	1	11
	1.7	The study areas	12
		Research approach	13
		Scope and limitations of research	15
		Significance of research	15
	1.11	Structure of the thesis	21
2	THE	ΓHEORETICAL FRAMEWORK	24
	2.1	Introduction	24
	2.2	The definition and concept of place	25
		2.2.1 Space, place and placelessness	28
		2.2.2 Scales and types of place	30
	2.3	Place meaning and environmental experience and	
		perception	31
	2.4	Place attachment	33
		2.4.1 Place dependence	35
		2.4.2 Place identity	37
		2.4.3 Sense of belonging and rootedness	40
	2.5	Place attachment measurement	41
		2.5.1 Place attachment in relation to types and	
		scales of the setting	45
	2.6	Place attachment and influencing factors	47
		2.6.1 Influence of engagement and familiarity	48
		2.6.2 Influence of demographic characteristics	50
		2.6.3 The influence of users' roles	50
	0.7	2.6.4 The influence of culture	51
	2.7	Place character distinction	53
		2.7.1 Sense of place and spirit of place (genius loci)	54
		2.7.2 Place attributes and characteristics	57
		2.7.4 Attributes associated with physical elements	62 65
		2.7.4 Attributes associated with activities	กว



	2.7.5 Attributes associated with image	67
	2.8 Place character identification	69
	2.8.1 Approach and method of identification	n 71
	2.9 The street as a place	72
	2.9.1 Street typology	74
	2.10 Conclusion	75
3	RESEARCH DESIGN AND METHODOLOGY	77
	3.1 Introduction	77
	3.2 Methodological approach	78
	3.3 The scope of research	80
	3.4 The research process	80
	3.5 Choice of methodology	82
	3.5.1 Review of previous methodology	82
	3.5.2 The methods of the study	84
	3.6 The study areas and selection criteria	85
	3.7 The survey design	87
	3.8 The measurement criteria	
	3.9 The research techniques of inquiry and data colle	
	procedures	91
	3.9.1 Phase 1: Establishing theoretical framewo	
	3.9.2 Phase 2: Preliminary investigation	92
	3.9.3 Phase 3: Final investigation	97
	3.10 Reliability and validity	114
	3.11 Approach to analysis	116
	3.12 Data analysis techniques	117
	3.13 Conclusion	118
4	INTRODUCTION TO STUDY AREAS	120
	4.1 Introduction	120
	4.2 The study areas	120
	4.3 Structure plan policy relating to urban design is	n the
	city centre	122
	4.4 Study Area 1 : Jalan Tunku Abdul Rahman-	
	Jalan Masjid India (JMI-TAR)	124
	4.4.1 Background	125
	4.4.2 The physical context	127
	4.4.3 The physical characteristics	128
	4.4.4 The users	129
	4.4.5 Building uses and activity	129
	4.4.6 Upgrading and improvement	131



	4.5	Study Area 2: Jalan Petaling (JP)	133
		4.5.2 Background	133
		4.5.3 The physical context	134
		4.5.4 The physical characteristics	136
		4.5.5 The users	137
		4.5.6 Building uses and activity	137
		4.5.7 Change and improvement	139
	4.6	Study Area 3: Jalan Bukit Bintang (JBB)	140
		4.6.2 Background	140
		4.6.3 The physical context	140
		4.6.4 The physical characteristics	142
		4.6.5 The users	143
		4.6.6 Uses and activity	143
	4.7	Conclusion	145
5		CE ATTACHMENT AND THE INFLUENCING	146
	5.1	Introduction	146
		The respondents' profiles	146
	5.3		152
		5.3.1 Functional attachment	152
		5.3.2 Emotional attachment	152
	5.4	0	162
		5.4.1 Degree of functional attachment	163
		5.4.2 Degree of emotional attachment	165
	5.5	Reasons for attachment	169
		5.5.1 Place meaning and significance	169
		5.5.2 Purpose of engagement	173
		5.5.3 Elements of attraction	175
	5.6	5	181
		5.6.1 The influence of length of engagement	181
		5.6.2 The influence of familiarity	190
		5.6.3 The influence of culture and ethnicity	195
		5.6.4 The influence of memory and knowledge	199
		5.6.5 The influence of sense of pride and belonging	202
		5.6.6 The influence of physical change and	007
		improvement	207
	5.7	Variation of the degree of attachment according to	04.5
		respondents' roles	215
		5.7.1 Emotional attachment according to	24 =
		respondents' roles	215



		5.7.2		nal attachment according to	210
	ГΩ	C1	-	ents' roles	219
	5.8	Concl	usion		223
6	PL A	ACE AT	TRIBUT	ES AND CHARACTERISTICS	
	INF	LUEN	CING PL	ACE ATTACHMENT	224
			duction		224
	6.2	Place	attribute	s and characteristics influencing	
			nment		225
				sical element : Accessibility	226
				sical element : Legibility	232
				vity : Vitality	248
				vity: Diversity and choice	256
				vity : Transaction	265
				ge : Legibility	27 3
				ge : Distinctiveness	279
				ge : Comfort	288
	<i>(</i> 0			ge: Safety and security	298
	6.3			e influencing place attributes according	202
	<i>(</i> 1		pondents	roles	302
	6.4	Concl	usion		306
7	DIS	CUSSI	ON		310
	7.1	Intro	duction		310
	7.2	Main	research	findings	311
		7.2.1	The form	n and degree of attachment	311
		7.2.2	Meaning	gs associated with the shopping streets	317
		7.2.3		influencing degree of attachment	321
			7.2.3.1	The influence of length of engagement	
				and familiarity	321
			7.2.3.2	The influence of socio-cultural	
				characteristics and ethnicity	323
		7.2.4	Variatio	n of degree of attachment according to	
			respond	ents' roles	325
		7.2.5	Attribut	es and characteristics strongly influence	
			place att	tachment	328
			7.2.5.1	The significance of the attributes and	
				characteristics associated with	
				the physical elements	329
			7.2.5.2	The significance of attributes and	
				characteristics associated with the activity	332



		characteristics associated with the image	335
	7.3	Conclusion	340
8	COI	NCLUSION AND RECOMMENDATIONS	342
	8.1	Introduction	342
	8.2	Planning and urban design implications	342
	8.3	Contributions of the research	347
	8.4	Suggestion for future research	349
	8.5	Conclusion	355
REFE	RENC	ES	357
APPE	NDIC	ES	369
RIOD	ΔΤΔ (OF THE AUTHOR	432



LIST OF TABLES

Tables		Page
2.0	Types of identity of place adapted from Relph (1976)	39
2.1	Sense of place measurement developed by Shamai (1991)	45
2.2	Approaches for good and successful places and related attributes and characteristics	60
2.3	Elements and attributes generated from the components of place	61
3.0	Rationale of the selection of study areas	87
3.1	Attributes and elements of place relevant to the context of the study	89
3.2	Sample size required for various sampling at 95% confidence level	101
3.3	A systematic schedule for field survey	102
3.4	Rationale for composition of respondents	108
5.0	Age	147
5.1	Gender	147
5.2	Marital status	148
5.3	Ethnicity	149
5.4	Education	149
5.5	Monthly income	150
5.6	Occupation	150
5.7	Place of stay	150
5.8	Functional attachment indicators	153
5.9	Emotional attachment indicators	160
5.10	Degree of functional attachment to JMI-TAR, JP and JBB based on mean values	164



5.11	based on mean values	166
5.12	Meanings associated with JMI-TAR, JP and JBB based on mean values	170
5.13	Place meanings associated with JMI-TAR, JP and JBB	172
5.14	Purpose of engagement	173
5.15	Main intention of engagement	174
5.16	Length of engagement for static users	181
5.17	Frequency of engagement	183
5.18	Duration of engagement	183
5.19	Last visit	184
5.20	Do you visit this place every time you are in KL?	184
5.21	Degree of emotional attachment according to length of engagement for static respondents in JMI-TAR, JP and JBB	186
5.22	Degree of functional attachment according to length of engagement for static respondents in JMI-TAR, JP and JBB	189
5.23	Level of familiarity	190
5.24	Comparison between familiarity and emotional attachment	191
5.25	Most familiar shops/spots in JMI-TAR, JP and JBB	193
5.26	Degree of attachment to JMI-TAR, JP and JBB according to ethnicity	197
5.27	Keywords descriptions of JMI-TAR, JP and JBB	201
5.28	Degree of pride and belonging to JMI-TAR, JP and JBB based on mean values	202
5.29	Changes in the past 12 month (N=330)	207
5.30	Statements on changes on JMI-TAR, JP and JBB (in the past 12 months)	208
5.31	Degree of emotional attachment according to respondents' roles in IMI-TAR.IP and IBB	216



5.32	roles in JMI-TAR, JP and JBB	219
5.33	Degree of attachment according to respondents' roles and types of attachment to JMI-TAR, JP and JBB	221
6.0	Urban Character Appraisal : Accessibility (JMI-TAR, JP, JBB)	228
6.1	Comparison between accessibility of JMI-TAR, JP and JBB with the functional attachment	230
6.2	Characteristics associated with the legibility of JMI-TAR, JP and JBB based on mean values	233
6.3	Urban character Appraisal : Legibility (JMI-TAR, JP, JBB)	238
6.4	Urban character Appraisal : Streetscape (JMI-TAR, JP, JBB)	241
6.5	Comparison between the legibility of JMI-TAR, JP and JBB and the functional attachment	246
6.6	Urban character Appraisal : Nodes, landmark and place markers (JMI-TAR, JP, JBB)	247
6.7	Characteristics associated with vitality of JMI-TAR, JP and JBB based on mean values	249
6.8	Comparison between vitality of JMI-TAR, JP and JBB with the functional attachment	252
6.9	Urban Character Appraisal: Vitality (JMI-TAR, JP, JBB)	257
6.10	Characteristics associated with diversity and choice of JMI-TAR, JP and JBB	256
6.11	Distribution of ground floor uses in JMI-TAR, JP and JBB	259
6.12	Comparison between diversity of JMI-TAR, JP and JBB with the functional attachment	260
6.13	Urban Character Appraisal: Diversity (JMI-TAR, JP, JBB)	264
6.14	Characteristics associated with transaction in JMI-TAR, JP and JBB based on mean values	266
6.15	Comparison between transaction and the functional attachment of JMI-TAR, JP and JBB	269
6 16	Urban Character Appraisal : Transaction (IMI-TAR, IP, IBB)	272



0.17	JMI-TAR, JP and JBB	274
6.18	Comparison between the legibility (image) of JMI-TAR, JP and JBB and the emotional attachment	278
6.19	Urban Character Appraisal: Legibility_Image (JMI-TAR, JP, JBB)	279
6.20	Characteristics associated with distinctiveness of JMI-TAR, JP and JBB based on mean values	279
6.21	Comparison between distinctiveness of JMI-TAR, JP and JBB with the emotional attachment	286
6.22	Urban Character Appraisal: Distinctiveness (JMI-TAR, JP, JBB)	287
6.23	Characteristics associated with legibility of JMI-TAR, JP and JBB based on mean values	288
6.24	Comparison between accessibility of JMI-TAR, JP and JBB with the functional attachment	294
6.25	Comparison between comfort and familiarity of JMI-TAR, JP and JBB	295
6.26	Urban Character Appraisal: Comfort (JMI-TAR, JP, JBB)	297
6.27	Characteristics associated with the safety and security of JMI-TAR, JP and JBB based on mean values	298
6.28	Place components identification of JMI-TAR, JP and JBB according to respondents' roles	303
6.29	Summary of respondents' perception on the attributes of JMI-TAR, JP and JBB	306



LIST OF FIGURES

Figures		Page
1.0	The experience of streets as a place : Space, place and attachment	14
2.0	Components of place	26
2.1	The conceptual framework of the study	76
3.0	Research design of the study	81
3.1	Sense of place dimensions and place attachment measurement criteria	90
3.2	Data collection procedures of the research	91
4.0	Location of the study areas in the context of Kuala Lumpur city centre	121
4.1	JMI-TAR and the surrounding context	126
4.2	Land use plan of JMI-TAR in 2004	130
4.3	JP and the surrounding context	135
4.4	Land use plan of JP in 2004	138
4.5	JBB and the surrounding context	141
4.6	Land use plan of JBB in 2004	144
5.1	Degree of functional attachment to JMI-TAR, JP and JBB based on percentage of agreement (N=330)	164
5.2	Degree of emotional attachment to JMI-TAR, JP and JBB based on percentage of agreement (N=330)	167
5.3	Meaning associated with JMI-TAR, JP and JBB based on percentage of agreement (N=330)	171
5.4	Main elements of attraction on JMI-TAR, JP and JBB	176
5.5	Degree of pride and belonging to JMI-TAR, JP and JBB based on percentage of agreement (N=330)	178
5.6	Degree of functional attachment according to length of engagement for static respondents in JMI-TAR, JP and JBB	185



3.7	engagement for static respondents in JMI-TAR, JP and JBB	187
5.8	Degree of pride and belonging to JMI-TAR, JP and JBB based on percentage of agreement	203
5.9	Opinion on changes of JMI-TAR, JP and JBB	207
5.10	Degree of emotional attachment according to respondents' roles in JMI-TAR, JP and JBB	217
5.11	Degree of functional attachment according to respondents roles in JMI-TAR, JP and JBB	220
6.0	Characteristics associated with legibility of JMI-TAR, JP and JBB	234
6.1	Characteristics associated with vitality of JMI-TAR, JP and JBB	249
6.2	Characteristics associated with diversity and choice of JMI-TAR, JP and JBB	258
6.3	Characteristics associated with transaction of JMI-TAR, JP and JBB2	267
6.4	Characteristics associated with the distinctiveness of JMI-TAR, JP and JBB	281
6.5	Characteristics associated with comfort of JMI-TAR, JP and JBB	292
6.6	Variation in the perception of place attributes of JMI-TAR, JP and JBB according to respondents' roles	304
6.7	Attributes strongly associated with JMI-TAR, JP and JBB	307
8.0	The framework defining place as a total experiential dimension	356



LISTS OF APPENDICES

Figure	es	Page
Apper	Appendix A	
A1	Street layout of JMI-TAR	370
A2	The street character of JMI-TAR: General view of the street	371
A3	The street character of JMI-TAR: Legibility, nodes and landmarks	372
A4	The street character of JMI-TAR: Streetscape	373
A5	The street character of JMI-TAR: Building image	374
A6	The street character of JMI-TAR: General view of the activity	375
A7	The street character of JMI-TAR: Diversity	376
A8	The street character of JMI-TAR: Users and activity	377
A9	The street character of JMI-TAR: Change and improvement	378
A10	Street layout of JP	379
A11	The street character of JP: General view of the street	380
A12	The street character of JP: Legibility, nodes and landmark	381
A13	The street character of JP: Streetscape	382
A14	The street character of JP: Building image	383
A15	The street character of JP: General view of the activity	384
A16	The street character of JP: Users and activity	385
A17	The street character of JP: Diversity	386
A18	The street character of JP: Change and improvement	387
A19	Street layout of JBB	388
A20	The street character of JBB: General view of the street	389
A21	The street character of JBB: Legibility, nodes and landmark	390

