GENERAL GUIDELINES FOR DEVELOPING AND PRESERVING THE HISTORIC OLD CITY OF "NABLUS" - WEST BANK

by

MOHAMMAD ATA YOUSOF

B.Arch, An-Najah National University Nablus, West Bank, 1986

A MASTER'S THESIS

Submitted in partial fulfilment of the requirements for the degree

MASTER OF ARCHITECTURE

College of Architecture and Design

KANSAS STATE UNIVERSITY Manhattan, Kansas 1989

Approved by:

Bernd Foerster
Major professor
Bernd Foerster
Donald Watts
Ray Weisenburger

1 D 21668 .74 ARCH 11.1 Y68 To my birthplace, Nablus, and to my parents who taught me life and love under the sky of this city.



 \star All the photographs in this research are the author's unless otherwise indicated.

Table of Contents

TABLE OF CONTENTS	i
LIST OF ILLUSTRATIONS	- - iii
ACKNOWLEDGEMENTS	v
ABSTRACT	vi
CHAPTER 1 : Background	2 6 6 11
CHAPTER 2 : Historical Development	21 25
CHAPTER 3: Urban Visual Analysis of Nablus Introduction	36 53 55 61 82
- Habs ed Dam	89909398100101
- Notes	107

CHAPTER 4	: Planning and Urban Design Issues	111
CHAPTER 5	for Developing and Preserving the	141
_	old city of Nablus	142
_	Nablus Preservation Commission	142
_	The Role of the Preservation Commission	144
_	Comprehensive Survey and Evaluation	145
_	Preservation Plan	162
_	Comprehensive Plan	165
_	Citizen Participation	169
_	Integration of Old and New Architecture	
	and planningTraffic	170
_	Traffic	173
_	Pedestrians Zones	178
_	Pedestrians Zones	181
_	New Uses	184
_	Adaptive Use	185
_	EarthquakesStone	188
_	Stone	190
	RESERING AND DEVELOPING GUIDELINES	
CONCLUSION	·	212
-	Notes	214
BIBLIOGRAF	PHY	218
APPENDICES		
-	Appendix 1 : Future Planning Strategy : a Framework of Action	
	a Framework of Action	225
-	Appendix 2 : Designing with Environmental Assessment	
	Assessment	227
-	AssessmentAppendix 3 : en-Naser Mosque, Plans and Elevations	
	Elevations	233
-	Appendix 4 : Sabanet "soap factory" Abd	
	Al-Hadi	236
-	Appendix 5: Tuqan Palace, Plans and Elevations	
	Elevations	237
-	Appendix 6: Doors and Windows from	
	the old city of Nablus	240
_	Appendix 7: Stone Inscriptions	246
_	Appendix 8: New Documentation Methodology	250
_	Appendix 9: Social Survey Form, Istanbul	251
_	Appendix 10: Building Evaluation	252
_	Appendix 11: Preservation for earthquakes Appendix 12: Preservation of stone today	253
_	Appendix 12: Preservation of Stone today Appendix 13: Standard Definitions	254
	Appendix 14: Personal Communication	255

List of Illustration

Map shows the Holy Land and Syria	5
Map shows the location of Nablus in the Holy Land	/
Man shows antiquity sites in the vinicity of Nablus	16
The valley of Nablus	18
The valley of Nablus	20
Annual distribution of rainfall	22
Painfall -Donth- Duration probability curves	24
Curve of population growth	24
Curve of population growth The Roman church in el- Gharb Quarter	27
Vaulted street in the old city of Nablus	30
Monumental staircase in a house old city of Nablus	33
Chatch man of the cituation of Nablus	36
Fact part of Nahluc and Mount Ebal	37
West part of Nablus and Mount Ebal	38
Nahlus and Mount Ebal	39
Winding streets old city of Nablus	40
Modern Palestine with anicent towns and highways	42
Modern Palestine with anicent towns and highways A historic quarter, old city of Nablus	43
En- Naser mosque dominates the silhoutte of Nablus	44
The Minaret Tower and en-Naser mosque	47
The Minarct Square and the Minarct Tower	48
31 Culton barray after renovation	50
Monumental stairs, old city of Nablus	54
Monumental stairs, old city of Nablus	56
Map of Nablus, 1926	57
Ain "spring" in haret el-HablehAin el-Khadir	59
Ain el-Khadir	60
The gateway of the Great mosque	62
Interiors of the Great mosque	64
The Great & En-Naser mosques	66
En-Naser mosque- the most dominant landmark in Nablus -	67
Plan of en-Naser mosque	68
Al-Tineh & al-Khdrah mosques	70
Al-Tineh & al-Khdrah mosques	71
The heating system in the Turkish bath	77
The roof of Hammam "bath" el-Jedideh	79
Small glass openings in the roof of Hammam el-Jedideh ·	80
Small glass openings in the roof of Hammam el-Jedideh	81
Wakalet al-Farokheyeh in haret el-Gharb	85
Wax of Nablus,1926	87
Views of al-Nimer palace	88
Plan and elevation of Habs ed-Dam	89
Plan and elevation of Habs ed-Dam	91
Portal with original door, Nablus	96
Stone decoration	97
Interior views in a house, old city of Nablus	99

Buttresses in the old city of Nablus102
Vaulte and cross vaults are the main supporting
greater in the old city of Nablus
Cars in al-Karvun historic quarter
old city of Nablus113
Street in the old city of Nablus
Fn-Naser street was not design for cars
Modern structures in the historic quarters
Large scale buildings in the old city of Nablus122
Most parts of the old city were not preserved
after the earthquake of 1927123
New additions were added at the expenses
of the narrow streets125
Old windows are neglected in the old city of Nablus 126
Concrete became a major construction element127
New construction materials are introduced to the
old city of Nablus128
Concrete wall in the main open space in al-Karyun
quarter128
New window materials are itruduced into the
old city of Nablus129
New stories are added on top of original buildings130
New additions on the top of the old buildings131
Plastic sewage pipes damage the streetscape132
Shopping patterns are changed134
Plastic pipes, electric cables damage the image of
100
Electric cables spoiled the facades of the historic buildings137
historic buildings137
T.V antenna, water pipes cause many problems to
the landscape of the old city138
The effect of light and dark in the historic quarters -149
The effect of light and dark in the historic quarters 145
A building in the old city of Nablus155
Two views in the historic quarters157
Car traffic is a major problem in the old city174
The historic quarters were traffic free before the introducing of cars179
A building in the old city as left after the
earthquake of 1927189
Local limestone is the basic construction material
in the old city of Nablus192
New materials and additions should be removed from
the old city203
Necessary tubes and wires must be buried or hidden
within the fabric of the buildings206

ACKNOWLEDGEMENTS

This study is seen as a result of many causes put together. I would like to take this opportunity to thank my major advisor Prof. Bernd Foerster and the other members on the advisory committee Prof. Donald Watts and Prof. Ray Weisenburger. There were many times during the period of study that I reach a level of no progress and it was the encouragement and expertise of Prof. Foerster that gave me a new start every time I needed one.

I would also like to express my appreciation to the students of the 3rd and 5th year in the Department of Architecture at An-Najah National University, for providing me of very useful sketches. I also wish to acknowledge Mr. Hisham Zubi of the Public Relation Office at An-Najah National University, Mr. Zuhir Dobai, Nablus, and Mr. Salim Jadallah, for the useful photographs and information they sent to me.

Special thanks to the AMIDEAST-America-Mideast Educational & Training Services, Inc. - for their financial support.

My gratitude goes to my parents and my family whose help, support and encouragement made it possible to complete this study far away from home. I hereby dedicate this study to my family for their continuous help and support.

Finally, I owe much more than a word of thanks to my friend, Hana, who shared in every joy and sorrow along the way. With the encouragement she gave me, I was able to see the completion of my thesis.

ABSTRACT

The old city of Nablus is one of the best preserved traditional cities on the West Bank of the Jordan river. It contains one of the greatest collections of national monuments in all the West Bank, and is considered by many to be the most attractive city in that area after Jerusalem.

Nablus is seriously threatened with the disfigurement and destruction which may cause the eradication of whole chapters of its history. The question then, is how can future architectural development in the old city of Nablus be prevented from accelerating the loss of its cultural identity.

A systematic program of preservation is recommended. This program can offer present and future generations of Nablus the opportunity to create a better community while maintaining and enhancing the best from the past.

preservation must be integrated into the regular planning process. It must mean something to the man in the street and involve the community. Above all it must be compatible with contemporary ways of living, and with changes that are taking place. Preservation must be part of an organic process in order to assure the continued enjoyment of Nablus' special attributes embodied in its heritage. Such an approach will help to make Nablus dynamic and fascinating, as a place in which to live or to visit.

Efforts shall be made to identify the personality that the historic quarters convey, to revive past values, to regain

the architectural integrity of the historic quarters and to create a more livable environment. It is essential to maintain the charm and picturesque quality of this historic city about which an anonymous Palestinian poet once wrote "when you say fame, you mean Nablus."



CHAPTER 1 GENERAL BACKGROUND

INTRODUCTION

"The preservation of historic districts today is widely accepted as a legitimate function of government. Not only is it justified on the basis that community appearance is important to the public welfare, but also because such areas add to our culture, education, and enjoyment by keeping history alive and visible."

"The contemporary Muslim world faces a fundamental and unique challenge in determining its future physical environment. In many Muslim countries the next two decades will see a radical large-scale transformation of the urban physical fabric, not only in economic or political terms, but in the physical environment as well."²

Therefore the question is how future architectural development can be prevented from accelerating the loss of its cultural identity. The world is changing, there are still many lessons to be drawn from the past. Whatever design solutions people choose should be conceived in such a manner as to allow evolution and progress to orient them toward the future, rather than retreat into the past for its own sake.

The continued existence of the Islamic cultural heritage, as represented by the historic monuments and sites constructed by that civilization, is at stake today. The Islamic historic quarters are seriously threatened with disfigurement and destruction due to a variety of both psy-

chological and economic factors. Culturally speaking, the Islamic countries suffer from an inferiority complex with regard to Western standards and values; they downgrade, disregard, and in some cases are even ashamed of their own past.

Therefore, new and unimaginative architectural styles and urban patterns have invaded the Islamic countries, without the slightest attention being paid to the specific character, customs, and habits of their people.

structures and traditions of historic cities have been destroyed in the name of progress and modernization, slum clearance traffic improvement and exploitation of rising living standards. Governments, in their quest to modernize through rapid industrialization, have encouraged the intrusion of these new values and have given scant attention to the conservation of cultural heritage. Yet the necessity of preserving - or in some cases rediscovering - the artistic and cultural heritage should be self-evident and indeed be a high governmental should priority"3

"Reviewing the realm of preservation, we see that auspicious beginnings have been made in many Islamic societies which may be reoriented to expand their traditional realm of activities. Intensive campaigns are needed to sensitize the owners and administrator of many monuments, as unique products of a cultural past which retains both psychological and aesthetic validity"⁴

The principal reason for safeguarding the visual image of the past, in the form of monuments and historic quarters, is not only the intrinsic beauty and harmony of what is to be

preserved, but above all the identity and personality which these monuments and quarters convey

Notes

Godman, John - Preservation of Historic Districts by
Architectural controls

A.K.A. Seminar Paper, 1978:XII

Zulficar, Said, A.K.A. Seminar Paper:XIII

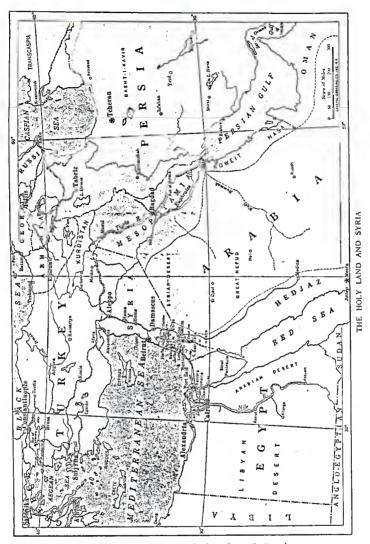
4 A.K.A. Seminar Paper 1978:IX

PURPOSE OF STUDY

The aim of this study is to focus on the historic quarters of the old city of "Nablus", and to consider strategies and general urban design guidelines, which could ensure a future for those historic quarters in the rapidly changing physical and social landscape.

In a seminar held in the fall of 1978 under the name of "Conservation as Cultural Survival" Renata Holod said:

"The nature of the future of the Islamic cities would most likely vary according to the initiatives and needs of each particular place. These environments may still play an important role in the life of contemporary Islamic societies. Some of these environments have remained a focus for the traditional elements of societies. All possess rich reserves of architectural ideas, and townscape with distinct flavor and identity."



Map shows the Holyland and Syria Source: The Holyland and Syria, Frank, G. Carpenter, 1925

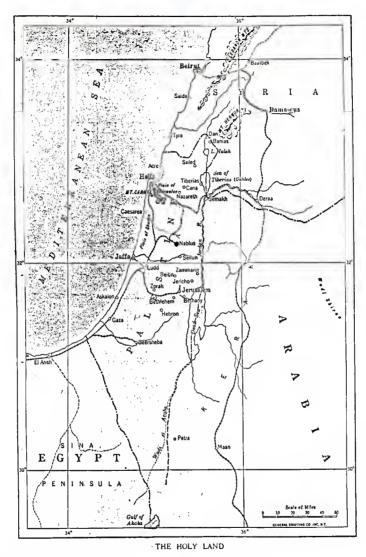
HYPOTHESIS

The thesis is based on the hypothesis that the historic quarters of Nablus are not to become a museum for tourists. The project is intended to encourage appreciation for the values of the old city. It is assumed that the historic district will be lived in, and that adaptations will be made to allow for changing needs of the residents while retaining the atmosphere, scale and streetscape of the original neighborhood.

SCOPE OF STUDY

The old city of "Nablus", one of the West Bank's most important historic cities, has undergone a drastic change in the last few decades. The process of westernization has been rapidly gaining ground, swallowing up some things worth preserving as well as others not worth holding on to.

This historic city containing one of the greatest collections of national monuments in all the West Bank of the Jordan River (part of an area historically known as Palestine) has been ruined in the cause of "progress" and the



Map show the location of Nablus in the Holyland Source: The Holyland and Syria, Frank, G. Carpenter, 1925

quarters have heavily overshadowed the heritage of "Nablus" glorious past.

The old city of "Nablus" is considered by many to be the most attractive city in the West Bank after Jerusalem. The author will scrutinize the exciting problems and offer general urban design guidelines for developing and preserving the historic quarters to create a more liveable environment and maintain the charm and picturesque quality of this historic city about which a Palestinian poet once wrote "when you say fame, you mean "Nablus".

Since "the status and condition of the older historic quarters (the madina) is a shared aspect of many Islamic towns, all have been subjected to, or are still undergoing, processes of major demographic change". It is important to discuss, understand and analyze projects and issues from various regions of the Islamic world, having similar characteristics, heritage and culture.

This importance stems from the following:

1) "Lack of written information and detailed maps of the old city of Nablus"² 2) Many parts of the old city of Nablus have been demolished because of earthquakes, in 1903 and in 1927.

The purpose of the proposed study is to develop a program establishing development guidelines for developing and conserving the historic quarters of Nablus. These guidelines will be general without focusing on detailed design, but careful attention will be paid to the implication of each of these guidelines for the benefit of the whole society.

"It is hoped that the old city of Nablus will embark upon a policy of conserving, preserving, and rehabilitating the traditional elements of the community" 2

In order to develop such urban design guidelines, the author will largely draw on M. Hugh P. Roberts's book, "An Urban Profile Of The Middle East". In his book, Roberts suggested a strategy for the future planning in the Middle East - future planning strategy: a framework for action.

Summarizing this startegy Roberts said:

"Having drawn up one final picture of development trends in Middle Eastern Urban societies, it remains to summarize the problems which have been seen to exist in the region. This summary is followed by an identification of aims, objectives and courses of action for urban planning in the future, which Middle East countries, comtemplating their individual urban situations, may see fit to

adopt or may, indeed, regard as unavoidable $^{"3}$ Ref. Appendix (1)

The other book that the author will use to support his study, is Cutler's book - "Recycling Cities For People - The Urban Design Process" - in which Cutler tried to develop a systematic technique for the planning with environmental assessment.

Defining his technique Cutler said:

"we have tried to develop a new technique that would be a means of establishing trust and understanding in the planning process through simplified concepts. It is a systematic technique, a process that has begun to evolve out of our execution of many complex revitalization reports, downtown plans, and environmental impact studies. It can be simplified to a flow diagram, but the important components are present and clarified by Tasks. Each Task, which must be performed to complete the process, has a sequence, an action, a product, and components, and considerations that make up the Task. The Tasks occur in overlapping order and actively integrate public participation into each stage of priority and criteria development." A Ref. Appendix (2)

Even though these strategies did not address the specific methods for a specific place, these strategies could be applied anywhere for the developing of a successful urban design plan.

With the help of the existing data references, and the above strategies, the author will develop general urban design guidelines which will become a tool for developing and preserving the historic quarters of the old city of Nablus.

Notes

- A.K.A. Seminar Paper 1978:IX
- Awad, Jihad, Islamic Sougs(Bazaar) In The Urban Context. Master thesis proposal, 1988:4
- Roberts, M. Hugh. An <u>Urban Profile Of The Middle East</u>, London:St. Martin, 1979
- Cutler, Recycling Cities For People The Urban Design
 Process, Cahners Books International, Inc.
 1976

TMPORTANCE OF STUDY

The historic quarters in the old city of Nablus are now threatened by the shifting of social and commercial activities from those quarters to new centers outside the old city. Additionally, many historic structures in those quarters have been destroyed in the name of progress and modernization. Therefore, it is important to create development and preservation guidelines which will give identity and personality to those historic quarters.

The municipality of Nablus has already started the rehabilitation of the main bazaar of the old city and other parts without study, so the proposed research will be useful to the municipality of Nablus. Furthermore, this study will be the basis for preserving cities and villages in the West Bank and Gaza strip. Also, this research will be helpful to the Department of Architecture at Al-Najah National University since it will be the foundation for further studies to be done by faculty members as well as students.

This study is going to be complementary to other studies of the old city of Nablus. One study was "Public Baths (hammamat) of Nablus", Dr. Wae'l Abu Saleh. Another was "The Urban Sprawl of Nablus", Yousof & Asi 1986. The final study was "Islamic Suqs (Bazaars) In The Urban Context", Awad, Jihad 1988.

Since Nablus is the home town of the author, this study will be the basis for continued research on the historic quarters, and for new studies useful to the universities, the municipalities and the people of the West Bank and Gaza strip. In an earlier conversation with Hafiz Tuqan, amyor of Nablus, has indicated that the proposed study will be welcomed by the municipal council.

RESEARCH METHODOLOGY

In the process of data collection for this thesis, two methods will be applied: library research and utilization of earlier field work. The latter is essential because there is not much printed material available.

Library Research

The literature that will be reviewed for the theorectical study and the development and analysis patterns mainly consists of books and articles dealing with preservation, rehabilitation and development of historic Islamic cities. A great deal about these topics is available in the Weigel Library, the Aga Khan Award program, and through interlibrary loan.

Many studies have been accomplished on different ideologies for preservation¹. Other studies have been made on preservation problems of Fez, Lahore, Oman, Jakarta, Istanbul, Antolia, Egypt, Yemen, and Isfahan². Further studies were accomplished on the uses of the past in Islamic Architecture³. In addition several studies have been done on the

preservation of historic districts in the Western world4.

Even though Western and other foreign methods will not be applied directly to Islamic conditions, certain theorectical approaches may prove useful.

Notes

Dogan, Kuban, Conservation of Historical Environment For Cultural Survival - Seminar Paper, 1978 Ilham, Tekeli - Urban Pattern in Antolia: Organization & Evolution A.K.A. 1978

Stetano, Bianca, Fez - Toward the Rehabilitation of Great City. Seminar Paper Mumtaz, Kamil. K, The Walled City Of Lahore: Directions for Rehabilitation. A.K.A. 1978 Damais, S, The Development of A Conservation Program For Jakarta Kamil, Melih., Nayir, Z, & H. Sener, F. Yurekli & H. Yurekli, The Egypt Conservation Area, Seminar Paper, 1978 Elden, Nezih, Kamil, M, Yucel, A., A Plan For Istanbul's Sultanahmet - Ayasofya Area. Seminar Paper A.K.A. Ronald Lewcock - Three Problems In Conserving: Egypt, Oman, and Yemen. A.K.A. Seminar Paper, 1978

Aptullah Kuran - Turkish Architecture, Past, Present:

A Brief Account. A.K.A. 1978 Sadad Hakki Eldem Toward A Local Idiom: A Summary History of Contemporary Architecture in Turkey - Seminar Paper.
A.K.A. 1978 Mohammad Makiya - A Practicing Architect Looks At Conservation - A.K.A. Seminar Paper

Godman, John, Preservation of Historic Districts By Architectural Control, American Society Of Planning Officials, 1313, East 60th Street, Chicago 37, Illinois James Marstan Fitch - Historic Preservation: Curatorial Management of the Built World - McGraw-Hill Book Company Glen, Marsha, Architecture - Conservation and Restoration, Washington D.C. American Institute of Architecture, 1974

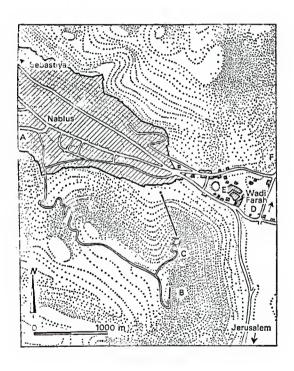
Fieldwork

Since the studies mentioned earlier are the only materials published about Nablus, the author will rely heavily on fieldwork he has already undertaken. Additional information may be sought from colleagues there.

The images of the city that have been recorded will be analyzed to arrive at an architype, a technique that has been practiced in historic preservation¹. This method can aid the author to recall the event and also to record the information on the historic quarters. Official maps will be obtained from the municipality of "Nablus". Documentation of any part of the city is possible with the help of the Architectural Department at An-Najah National University, where the author is a member of the faculty.

Notes

Professor Gene Ernst - Lecture ENVD 699. Feb 1987.



Map shows antiquity sites in the vicinity of Nablus Source: An Introduction to the Holyland, J. H. Winn Haswell, 1971

CHAPTER 2

HISTORICAL DEVELOPMENT

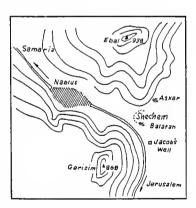
"Nablus, is one of the oldest towns in history. It was founded long before Jerusalem was built and even before Jacob's time."

- Frank G. Carpenter, 1925 - The Holy Land and Syria Grand City



TOPOGRAPHY

Nablus is an Arab city in Central Palestine, in a pass between Mount Ebal to the north and Mount Gerizim to the south. The site of this ancient city has been continuously occupied from Bronze Age to the present day. Nablus is situated at a height of over 500 meters above sea level, 64 kilometers north of Jerusalem. The old city is characterized by its narrow streets and small houses, while the new parts of the city extend up the slopes of both mountains, and have wider streets and modern buildings.



The Valley of Nablus Source: Land of Christ, James H. Fariely, 1968

The narrow valley of Nablus extends in a westerly direction, whereas the valley to the east widens to the plains of Beit Dajan area.

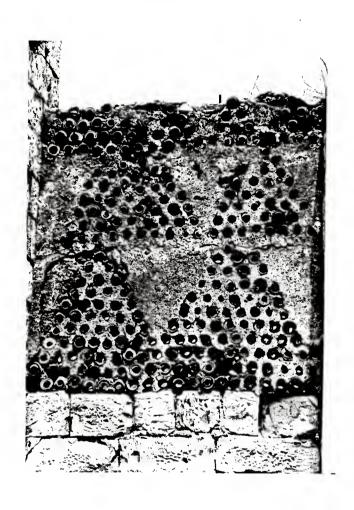
The center of the town forms a ridge that divides the flow of rainwater. The west basin of town drains to the Mediterranean, and the east basin drains to the River Jordan.

Lewis G. Leary who visited Nablus in 1911 gave the following description of its location:

"The center of Palestine geographically, and in many respects the center historically and religiously, is the city of Shechem, which lies in the transverse valley which cuts across the highlands of Samaria from east to west between Mount Gerizim and Mount Ebal. The city is built upon a kind of ridge or "shoulder" which stretches across the narrow valley from mountain to mountain; hence its ancient name of Shechem or "the shoulder". It has been known for the last nineteen centuries as Nablus, (i.e. Neapolis or "new-town".²

Climate:

The average annual temperature for this area varies between 17^0 - 19^0 C with an average temperature of 24^0 - 26^0 during the hottest month, August, and 3^0 - 10^0 C for the coldest month, January. The maximum temperature can reach



Ventilation Holes "Keyzan"

 $40^{0}\mathrm{C}$ in summer and a minimum of zero during the winter months.

The average rainfall varies from 600 to 700 mm. per annum with approximately 45 rainy days of more than 1 mm. per day, falling mainly during the months November to March.(see Figure 2.1)

From rainfall records for 10 years, the following table was prepared showing the frequency of days for each month of the year, with different amounts of rainfall in mms per day. (see Figure 2.2)

The prevailing wind blows from the west through the narrow valley from the sea. Generally, the wind reaches its peak in the early afternoon with a wind force of over 1 degree Beaufort i.e. greater than 5 kilometers per hour.

Population Growth Since 1838:

"Robinson estimated the number of Mohammedans in Nablus at the time of his visit - 1838 - at 8000 souls. Besides these, there were about a hundred and twenty Greek Christians, who were subjected to taxes, implying a population of at least five hundred souls, reckoning women and children. The Samaritans proper number only about thirty men who are liable to pay taxes, and the whole Samaritans population would hardly surpass a hundred and

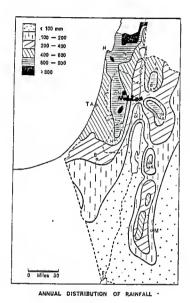


Figure 2.1 Source: Geography of the Holy Land, Raoul Blanchard and M. Du Buit, o.p. 1966

In 1866, Tristan, estimated the population of Nablus to be 9,000 souls.

"Indeed, the population of Nablus is chiefly Mussulman. Out of 9,000 souls, for it has recently

much increased, there are not more than 650 christians, not 200 Samaritans, and still fewer Jews."4

Thomson, visited Nablus in 1882 and wrote:

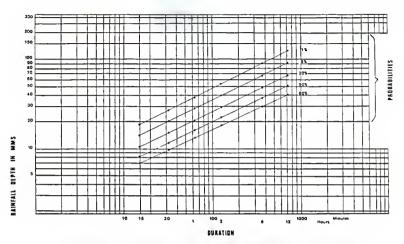
"The population has not greatly increased during the last half century. It was estimated at about ten thousand, and it does not now exceed thirteen thousand. By far the largest proportion of the inhabitants are Moslems, extremely fanatical, insolent, and turbulent. The Christians of all the sects number about seven hundred, mostly of the Orthodox Greek Church. The one hundred, Samaritans reside near their small keniseh, or synagogue, in the south-western corner of the town; and there are also a few Jews;"

In 1911 Lewis Gaston, gave another number for the population of Nablus:

"The inhabitants of the modern city number some 24,000, and are all Moslems,..."

"I was surprised to find that there were any Samaritans living. I had supposed that they had been swallowed up by people of other faith. I find, however, that there are about two hundred in Nablus, and that they practise the same religion as they did when Christ came"

The present population of greater Nablus stands at 100,000 which includes the population in the refugee camps: Beit Elma (west Balata, Askar, east of the city.) In the year 2000, the population is anticipated to grow to 130,000



RAINFALL - DEPTH - DURATION PROBABILITY CURVES

BASED ON 24 YEARS RECORD

Fig: 2-2

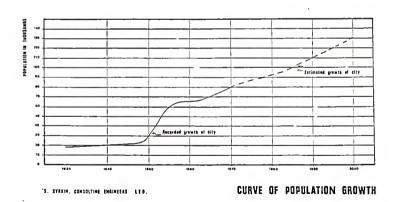


Fig:2-3
Source: Personal Communication, Zuhir Debai, Nablus, 1988

people. This growth represents an average annual increase in the population of 2% (see curve of population growth). (see Figure 2.3)

History:

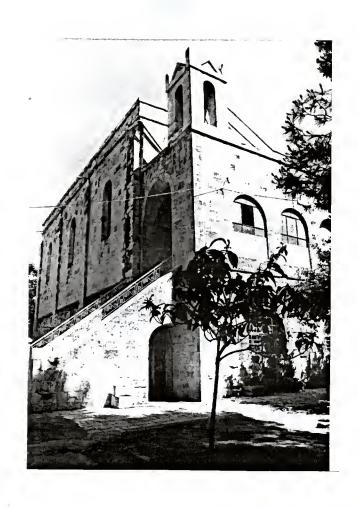
Nablus, is located both geographically and strategically on the main highways or trade routes connecting the three continents, Europe, Asia, and Africa, and thus it has made its mark in history.

The town was mentioned in ancient Egyptian writings from the period 14th to 18th century before the common era. In the Hebrew scriptures, it is mentioned that Abraham dwelled near the town and that Jacob purchased land for agricultural purposes. Through its troubled history, Nablus has seen many wars and changes of rulers. 9

In this strategic location at the center of a pass linking the Mediterranean coastal plain in the west to the Jordan valley in the east, with an abundant water supply and a productive hinterland, the Romans founded a new town in AD 72 for veteran legionaries to settle, after they destroyed the original town. It was named Flavia Neapolis (from which

the present name derives) in honor of the Emperor Flavius Vespasian. The town acquired all the civil and religious structures of a Graeco-Roman city: agora, hippodrome, aqueducts, fountains, colonnaded streets, temples and, later, basilicas, ramparts and, on the slope of Mount Ebal, a necropolis. Traces of this Roman city have been excavated recently, and a length of aqueduct survives to the west of the town. (see Notes 1, 3, 8, & 9)

"Under the Roman emperors Neapolis became one of important cities in Palestine. Septimius Severus once deprived it of the 'jus civitatis' but he restored it later (spartianus, 'Vita Severi'ch.ix.) Under Zeno (474) riots occurred in Neapolis between the Samaritans and the Christians."9 From the fourth century Neapolis became the seat of a bishop, but the early Christian had to struggle constantly against the Samaritans. The Emperor Zeno expelled the Samaritans from Mt. Gerizim and built a church on its summit in about 485. In 521 the Samaritans murdered the bishop, massacred priests and monks and burned the churched and monasteries. The Byzantine Emperor Justinian restored Zeno'z church in 531; remains of this octagonal church were excavated in After suffering several repulses from Justinian, the Samaritans eventualy took refuge to the east of the River Jordan where in a last battle they were virtually annihilated. Nowadays only a small community of about 200 Samaritans



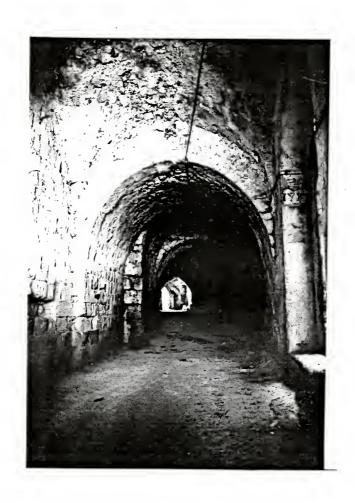
The Roman Church in El-Gharb Quarter.

lives on the lower slopes of the mountain. The present-day Samaritans celebrate their feasts of passover, Pentecost and Tabernacles on top of Gerizim.

In 636 the Arabs captured the town for Islam. the famous 10th C geographer, al-Muqaddasi, wrote that the town abounded in olives and was named "the little Damascus" and that its market place was very extensive. It had a Great Mosque, very finely paved, the houses were built of stone and a stream of running water flowed through the town.

In 1099 when the Crusaders took possession of the Holy Land, Tancred received the submission of the town, and they named it Naples. The Hospitaller Knights built churches and a royal palace, which was the residence of Queen Melisend from 1152 to 1161. In the middle of the town was a fortified tower, remains of which survive today, where the citizens sought refuge when under attack.

The town was recaptured by Saladin for Islam in 1187. Great damage was inflicted on the town by the effects of an earthquake in 1202. 12 Yet Crusader buildings remained sufficiently intact to allow the conversion of churches into mosques (Jamie al-Kadir, Jami' en-naser). A hospital built



A Vaulted Street in the Old City of Nablus.

by the Crusaders continued to be used as such. There is a possibility that these building were built on earlier settlements.

The town was again sacked in 1260, this time by invading Mongols. The period of Mamluk (1260 - 1516) was a prosperous one. Local produce was exploited in the manufacture of cotton goods, sweets and soap. Today cotton goods are no longer manufactured, but Nablus is renowned for its sweets and most of all for its soap made with pure olive oil. Several buildings survive from the Mamluk period, some attested by foundation inscriptions that are still in place. These structures include Jamie al-Khadra (the Green Mosque, which may be a converted Crusader building), the tomb of sheikh Badr, and the Baydari Hammam (Bath).

Following the arrival of Ottoman power in Palestine in 1517, Nablus became capital of a district (sanjak) under the control of a local governor in the province of Damascus. As the power of local governors increased they came to build palaces for themselves and their families. Prominent among these are the palaces of the 'Abd al-Hadi, Hashim, Nimr and Tuqan families, described by nineteenth century travellers as "fortresses with iron gates ... to be compared to the medieval family palaces in Italian cities." Many of the religious

buildings in Nablus also date from this period, as do the soap factories, of which there are no fewer than thirty by 1882. All are built of stone with vaulted roofs, for at this time timber was very scarce in Palestine.

On July 1927 the town suffered a major earthquake. Much of the consequent damage to buildings was never repaired and the ruinous condition of many of them may well have encouraged the inhabitants to move outside the old city to build their new houses.

As a result of the First World War, the town came under the British mandate in 1918, and in 1950 it was annexed by Jordan. Today, the city is under the rule of the Israeli Military Governor.

DEVELOPMENT OF THE BUILT ENVIRONMENT IN NABLUS

There are four clear stages in the development of the built environment in Nablus: 13

First stage - the Old City until the beginning of the 20th Century. This was a crowded and compact Mediterranean city. The streets were very narrow and entrance to the city was only possible through nine gates opening to various direc-

tions. 14 (see Figure 3.5) There was no physical growth.

Second stage - the beginning of the exodus from the Old City.

The first structures outside the city were public buildings built by foreigners - Europeans and Turkish, whose cultural background differs from that of the local population.

Third stage - breaking away from the Old City. The British rule brought about a surge of construction - mainly residential but also commercial - in all directions.

Fourth stage - rapid urban growth along the main traffic routes. This phenomena which began in the forties, is mainly typical of the post World War II period, and especially of the last ten years.

In accordance with historical development, one can note four construction centers in the city in terms of building concentration expansion models. 13

- The Old City
- Highly concentrated area outside the Old City
- Regional areas of medium or low concentration
- Linear construction along main traffic routes



Monumental Staircase in a house in the old city of Nablus, 1987

Notes

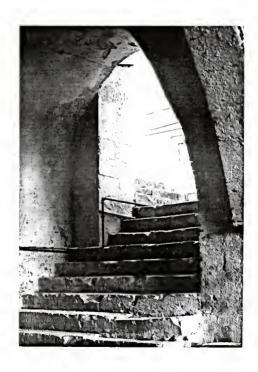
- Thomson, Willaim M., <u>The land and the book, Central Palestine and Phcenicia</u>, New York, Harper & Brothers, Publishers, Franklin square, 1882, p.138
- Leary, Lewis G., <u>The Real Palestine of Today</u>, New York, McBride, Nast & Company, 1911, p.149
- Ritter, Carl, <u>The Comparative Geography of Palestine</u>
 and <u>Sinaitic Peninsula</u>, Creenwood Press, Publishers, New York, 1968, p.311
- Tristan, H.B., <u>The Land of Israel or A Journal of Travels in Palestine.</u> 2nd edition, London:Society for Promoting Christian Knowledge; 1866, p.142
- 5 same as 1 , p.145
- 6 same as 2 , p.151
- Carpenter, G. Frank, <u>The Holy Land and Syria Grand City</u>, New York, Doubleday, Page and Company, 1925. (p.150)
- 8 Guide to Israel, p.404
- The Jewish Encyclopedia, p.239
- 10 same as 3 , p.310
- 11 same as 1 , p.141
- Parrot, Andre translated by James H. Farley, <u>Land of Christ</u>, Fortress Press, p.86
- Shin'ar, Amnon, "Nablus The development of the built environment in an Arab City" in <u>Geographic studies</u>
 of Israel, Magazine #7, 1970. (Hebrew Ref.)
- The Survey of Western Palestine, Memoris, Palestine Exploration Fund, 1882, Vol II, pp 203 - 211

CHAPTER 3

URBAN VISUAL ANALYSIS OF NABLUS

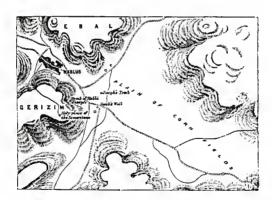
"Nablus is the most beautiful, perhaps it might be said the only very beautiful, spot in Central Palestine"

- Arthur P. Stanley -Sinai & Palestine, 1986



URBAN VISUAL ANALYSIS OF NABLUS

Nablus, has a distinctive and rich architecture that may be described as an indigenous type of architecture. "Be it the very humble architecture of a house, or the very sophisticated and ornate architecture of some mosques, the architecture is, just the same, a direct derivation from many compelling local, indigenous factors: climate, structural limitations, sociology, building materials and local traditions." Nablus, has a dynamic reason explaining why it is in this location. It possesses a definite anatomy. It has a clear-cut urban form. It has a distinct, overall structure and it has a distinct personality in relation to the regional

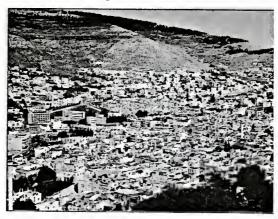


Sketch map of the situation of Nablus Source : Sinai and Palestine, Arthur, Stanley, 1986

landscape it occupies. It has definition and boundary, and answers to very significant and distinct social, ethnic, racial, and religious patterns.

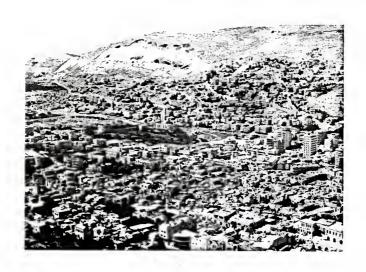
GENERAL VIEW:

To describe the comprehensive view of Nablus, one should be at the summit of either Mount Gerizim, in the south of the city, or Mount Ebal, in the north of the city. From there, the most favorite sectors of Nablus can be seen. These sectors belong to different periods of time, and thus, visually they are clearly noticeable from each other. The closer portion of the city is modern, the middle part is the valley, where the Old City of "Nablus" is located.



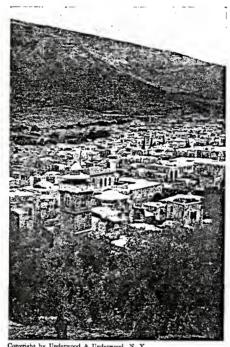
East part of Nablus and Mount Ebal

The panorama of Nablus boasts that it reigns amidst the two mountains of Gerizim and Ebal, and amidst hundreds of orange and palm trees. Among these trees, the most striking elements are bluish turquoise domes and minarets of the historic mosques. They constitute noticeable differences and perceptually they are important. Such domes and minarets catch the eye of the beholder at first sight.

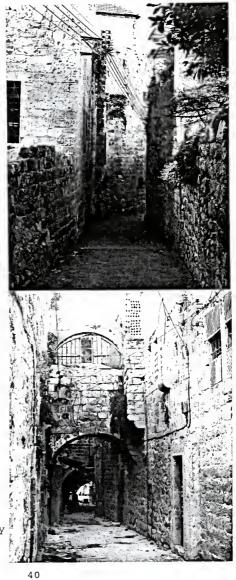


West part of Nablus and Mount Ebal

Further, far from Gerizim Mountain, stone domes and minarets of different Islamic periods are apparent. Visually, the color and shape of such architectural elements are noticeable on the horizon and against the blue sky as a background.



Nablus and Mount Ebal Source: The real Palestine of today, Lewis, Leary, 1911



Winding streets, old city of Nablus

Carl Ritter, who visited Nablus in 1866 wrote, "The view from Gerizim is very extensive, and is of an entirely different character from that presented in the neighborhood of Jerusalem: all here is fresher and greener ..., the valleys are attractive and fertile and assume the form of plains and basins."

Frank G. Carpenter, who was on Mount Gerizim, in 1929 said, "I am now living in my tent outside this old town of Shecheme. My camp faces Ebal, and above me is Gerizim, ... The country is in the shape of a great amphitheater of which the hills form the walls, these hills are, it is said a natural sounding board, so that one can talk on one mountain and be heard on the other ..."

Another traveler who visited Nablus was H.B. Tristram, from the roof of the mausoleum on summit Gerizim he gave the following description, "On our right we could trace the trans-Jordanic range from the sea of Galilee, Bashan, Ajlun, Gilead, down to Moab, on the left, the Mediterranean formed the horizon from Carmel perhaps to Gaza; while Joppa and Caesarea could be distinctly recognized ... All Central Palestine could be taken in at a glance, and the lesson of geography could not easily be forgotten." 5 (see Figure 3.1)

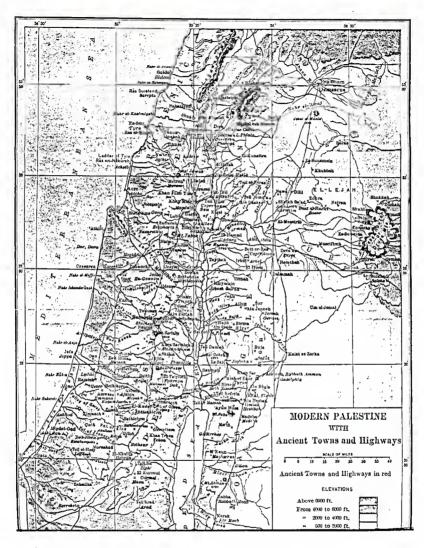


Figure 3.1 Source : Biblical Geography and History, Charles, Kent, 1911

Moving down towards the valley, the old quarters have large areas of mixed use, creating a quality which reminds one of the glorious past of the city. These quarters are crowded and packed with historic monuments and structures. Their narrow streets and alleys are congested with people. The historic areas display, to a marked degree, a quality of urban "atmosphere". the bazaars of various professions, the squares, as well as the crowded, old residential quarters of this city possess far more "soul", more atmosphere than brand-new, engineer-contractor feats of city agglomeration one may witness today. (see Figure 3.5)



A historic quarter, old city of Nablus

In Nablus, the historic quarters are still the most charming parts. These quarters, have visual and sensuous impacts and pedestrian scale.

In a general view, the historic quarters look like sculpture with many jewels consisting of the wondrous mosques, arcades, domes, and minarets, Sahat-el-Manarah - "the Minaren Square" - the greatest urban space in front of en-Naser - "the victory" - mosque, and also the bazaars through the length of the city.



En-Naser Mosque dominates the silhouette of Nablus

"By virtue of size location and distinctive form, the mosque dominates the architectural silhouette of the Arab town. Around the mosque are assembled the residential (usually very crowded), commercial and artisans quarters. The internal road system, designed primarily for pedestrian and animal purposes, did not conform to any pre-set geometric pattern but grew, in stages, forming out ramifying very often into specialized commercial and artisan streets; often the second story of the city, when it existed, would be residential. Entrances to the houses, frequently courtyard houses, took off from the ... All over the Arab world cities exist streets. possessing these basic and unmistakable characteristics : a skyline dominated by domes and minarets; a wall or vestiges of a wall; the horizontal extension of the city - unless it was on hill."6

Looking at the old city from the air, one is impressed by its almost lace-like cellular form. For the historic house is typified by its interior courtyard where, frequently, a fountain is placed and some trees, flowers and creepers planted. This provides shelter and a central private meeting place for the family. Looking at the city from ground level, it is generally not flat, punctuated, here and there, by the needle of the minaret and the hemisphere of the dome of the mosque. From the courtyard, one can see the blue sky - the blue that contrasts with what was often a drab brown environment. Internally, the city is busy: artisans at work; shoppers and visitors frantically occupied in merchandising; and "lazy" people filling the cafe houses - the "kahwa".

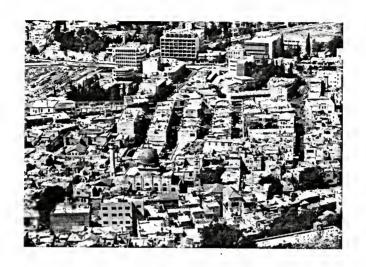
Women are at home, in the many rooms of the house, or in the courtyard "housh".

William M. Thomson, visited Nablus in 1882, and wandered through its streets:

"This morning I spent wandering through the streets and markets of Nablus. The houses of the city are solidly built of stone, having the same sort of courts, gates, doors, windows, and roofs as those at Jerusalem. ... In this respect, I remember no place with which to compare Nablus except Brusa (Brusa?), and like that city, it has the mulberry, the orange, the pomegranate, and other trees growing amongst the houses, and wreathed and festooned with rose-bushes and grape-vine, the fragrance of whose blossoms loads the air with delicious perfume during the months of April and May. There the (bird) delights to sing, and hundreds of other birds unite to swell the chorus. the people of Nablus maintain that there is the most musical valley in Palestine nor am I disposed to contradict them. $^{\rm H\,8}$

"Nablus, is the most beautiful, perhaps it might be said the only very beautiful, spot in Central Palestine."

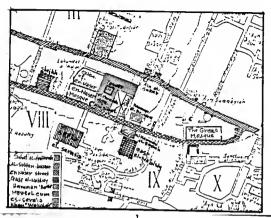
"Sahat-el-Manarah" - the Minaret square, is still the focal point of the historic city. It is strong because of its historic surroundings, of religious, administrative and commercial buildings ("Jamie en-Naser", the Victory Mosque - to the west, - The Ottoman Government House "Dar Al-Hukoma", to the south, - The New bazaar "Khan Al-Jadid" to the east, the main bazaar "Khan-el-Kadim" to the north, beside en-Naser commercial street to the south.) Creating with the old areas



The Minaret Tower, and En-Naser Mosque

a kind of micro-city full of subtle variations and architectural surprises. Sahat-el-Manarah with its Minaret remains the focal landmark in the city. (see Figure 3.3)

"Nablus is by far the best town we had seen since we left Beyrout, and its houses are, as a rule, superior to those of Jerusalem. The streets are cleaner, and often a little millstream of purest water ripples down the cellars, quite dark, vaulted and narrow; and so low, that the passengers can



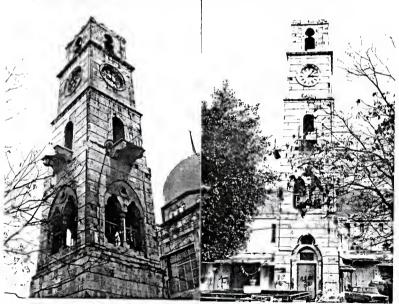


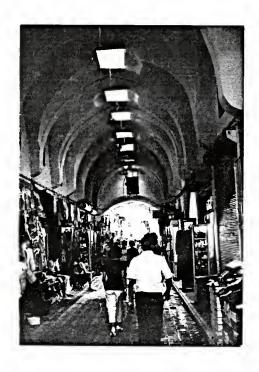
Figure 3.3
The Minaret Square and the Minaret Tower

scarcely stand upright, except in the center of them. No windows can be seen — only the little low doors, all carefully fastened. Yet there is an incongruous but valuable importation here from the West. 10

Concentrated on the bazaars of Nablus are all activities of an economic, handicraft - industrial, and commercial nature; these are divided into sectors - Suq el-Bassal - Suq el- Haddaden ...etc. according to various occupations. The bazaars are a legacy of the classical Arab world which, closely bound up with the economic activities, are of two types of structures. One is set aside for storing of goods to be sold later, the other is for merchandise in transit, and it is usually stored in the caravanserais.

"Nablus," writes Mukaddasi, "lies among the mountains. It abounds in olive-trees, and they even name it the 'Little Damascus'... Its market-place extends from gate to gate, and a second market goes to the center of the town."

Carl Ritter, who visited Nablus in 1866 wrote "The extensive bazaars of the city show even now the magnitude of trade between Damascus and the places on the coast." 13



Al-Sultan bazaar after renovation

"Al-Sultan bazaar has two gates on both ends, which are closed at night. The length of the bazaar from one gate to the other is about one mile. This bazaar, consists of three hundred and seventy shops on both sides, and of the street well planned and organized. Even though silk is not available in 'Al-Sultan' bazaar, anything else can be found there. In the middle of this bazaar there are one hundred shops on both sides of a cross-vaulted alley. To the north of the latter there is a great khan (known as Wakalah), looks like a citadel, in which there are one hundred and fifty, side to

side, rooms. In the middle of this 'khan', there is a mosque with a leaded dome." 14

"The modern town is narrow and long in shape, following the formation of the ground, the houses are of stone, many of them large and well-built. A new street down the center of the town was opened in 1875, and is a considerable improvement. The bazaars are fairly good, and the place is a market for wool and cotton of surrounding districts." 15

In 1879 Conder said, "... The town is well built, containing several fine houses and a good bazaar." 15

"The shops were well stacked, and busy with buyers and sellers. There were small arcades especially devoted to the sale of tobacco - others were filled with the refreshing odor of lemons, oranges, and The bazaar for vegetables and prepared citrus. food were rather difficult to pass through. They were thronged with Turkish soldiers from the pasha's camp, who were seeking their mid-day rations. Some of them were carrying large metal dished. containing a medley of chopped vegetables; or deep earthen-ware plates, filled with peas- pudding garnished with slices of lemon floating in oil. Others hurried through the crowd with bowls of steaming soup before them, which very effectually cleared the way. There seemed to be no friendly feeling between the soldiers and the town-people. Angry voices and loud cries surrounded us, and in several cases blows were exchanged before a bargain was settled.

"The long, narrow bazaar, where dried fruits, olives, rice, butter, and cheese are sold, led us to the entrance of an important mosque, the exterior of which is rich in relics of Christian art of the twelfth century. After pausing before it for a few minutes, we made our way down a street almost blocked up by camels, and thence passed into the principal bazaar, the finest arcade in Palestine. Here European goods are displayed, such as Manches-

ter prints, Sheffield cutlery, beads, and French bijouterie, very small mirrors, Bohemian glass bottles for nargilehs, Swiss head-kerchiefs, in imitation of the Constantinople mundils, crockeryware, and china coffee-cups. But the brightest shops are those in which Damascus an Aleppo silks, and embroidered jackets and tarbushes from Stamboul, appear, with stores of Turkish pipes, amber rosaries, and bracelets from Hebron. On the low shop-counters the turbaned salesmen squat in the midst of the gay wares, and they smoke and gossip, stroke their beards, and finger their rosaries from early in the morning until sunset." 16

In the present time the path system in the bazaars is vivid by itself, but tricycles for delivery, automobiles, and set-backs in the narrow alleys as well as formless modern buildings make it visually confusing and physically uncomfortable. There are signs of all kinds on the shops. The alleys are narrow, pot-holed and stinking; they wind impossibly and defy the markers of street plans. Fortunately, materials in the structures contribute to a sense of place, compatibility, and cohesiveness.

In general there is the hustle and bustle in the "suqs" and "bazaar", an air of informality and the feeling of integration between man and the city. Then there is the color and geometry of the building making up the city. There is the "muezzin's" call to prayer and the praying faithful in the mosque. There are the informal cafes and the Arabic smell of foods mixing with the medley of noise that pervades

the historic city. There is mystery in the "Zawareeb"-winding alleys -, "jada" - neighborhood - , and "Z'aas" - alley - that barely separate the living quarters one from the other. There is a fountain and a bit of green in the courtyard - the "haush" - of the house and the "mashrabiah" - bow window - of the house that overlooks the street.

THE CITY QUARTERS

The Old City is divided into seven quarters, which are called "Mahelat" or "Harat" by the local people. (see Figures 3.4 & 3.5)

- Haret el Hableh, or "Division of the Terrace" on the north-east.
- 2. Haret el Yasmineh, on the south-west, named after the mosque "Jamie el-Yasmineh".
- 3. Haret el Karyun on the south-east of el Yasmineh, named after the spring, "Ain el Kayyun", and between el Karyun and el Yasmineh lies "Dal el-Hokuma" the Governor's House or (es Serai)
- Haret el keisariyeh, in the southeast corner of the old city.
- 5. Haret el Sumarah, in the south-west corner



Monumental stairs, the old city of Nablus

- 6. Haret el Ghareb, on the west.
- 7. Haret el Hanabilieh, near Haret el Ghareb.

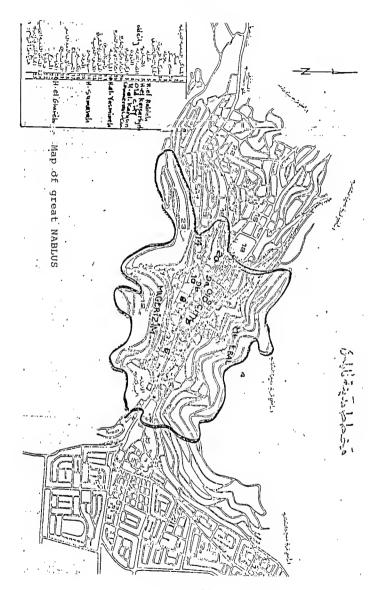
WATER SUPPLY

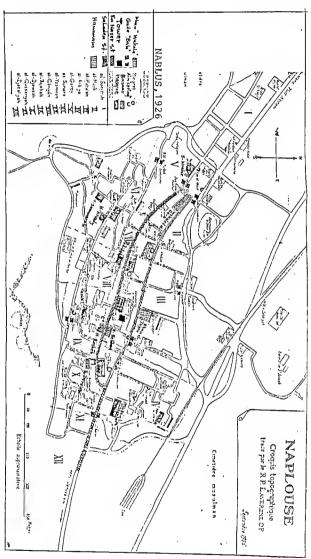
The water supply is extremely abundant, including the following springs (see Figure 3.5):

- "Ain el Asl" (Spring of Honey) In the public garden just south of Hizn Yakub.
- 2. "Ain el Karyun" In the town, near Jamie et Tineh.
- 3. Ain Husein Near Jamie el Beik.
- 4. Ain el Jamia In the great mosque courtyard "Jamia el Kebir".
- 5. Ain el Kas (Spring of the Cup).
- Ain es Sikr' (Spring of the Dam) West of the great mosque.
- Ain es Sekkayeh Near the great mosque on the east.
- 8. Ain es Sitt (Spring of the Lady).
- 9. Ain es Sibat Near Jamia en Nuser.
- 10. Ain es Satun Near Jamie Al-Satun in Haret Al-Yasmineh

There are also three principal wells:

1. Bir ed Debaghah (Well of Tanning).





Sourse: personal communication, Zuhir Dobie, Nablus, 1968

Bir et Temanir.

There are also three principal wells:

- Bir ed Debaghah (Well of Tanning)
- 2. Bir et Temanir
- Bir ed Dilab (Well of Plane Trees) In the east part of the city

There are also springs and wells outside the town, Ain Dufna on the east beneath the barracks; Ain el Kusab on the west, in the valley below the town, amidst the garden; and the beautiful Ras el Ain on the south, from which many of others are supplied. By Ain el Kusab there are mills in the valley.

Water seems to run everywhere, the sound of the streams below in the valley being audible in late summer. The most famous spring is Ras el Ain, called also el Merusrusa, or "as cold as lead", equivalent to icy cold.

When Mr. Lewis Gaston Leary visited Nablus in 1911 he wrote:

"... where Jerusalem has no natural springs at all, Nablus boasts of twenty-two never-failing fountains. There is an elaborate system of irrigation, but at certain seasons of the year there is such an over-supply of water that it is actually let run to waste through the city streets, which

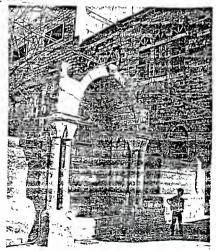


Ain "spring" in Haret el Hableh, the old city of Nablus

are sometimes dangerous for houses, on account of the floods rushing over the slippery stones. In all my travels through Syria and Palestine I remember only three cities where there was a visible abundance of water: Damascus, Ba'albek and Shechem:..."17

"Here there are no impetous mountain torrents, yet there is water; water, too in more copious supplies than anywhere else in the land ... It need hardly be said that it is from abundant supply of water that this beauty is derived: twenty-seven springs, each known by its peculiar name, besides a crowd of smaller sources, pour their treasures into the valley, and have thus scured the perennial glory of its green grassy sward, its olive-groves, its orchards of fig, and vine, and pomegranate." 18

"Falastin (Palestine) is watered by the rains and the dew, its trees and its ploughed lands do not need artificial irrigation, and it is only in Nablus that you find the running waters applied to this purpose." 19



Ain (spring) el-Kadir Source: Personal communication, 5th Year students, Dept of Architecture, An-Nabjah National University, 1987

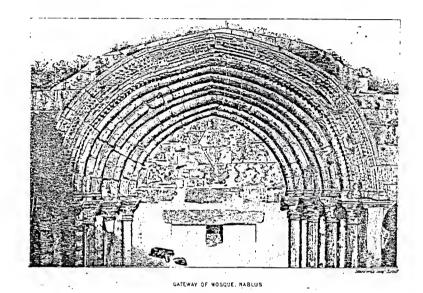
MOSQUES:

Among the Muslim Arabs the building in which communal prayer is performed is called "masgid" or "Jame". From the Arabic pronunciation of this word -masgid- the name Mosque is supposed to be derived. In practice a mosque is not merely a place for prayer, but also for listening to the Koran, to sermons, and to addresses. There is also "Masgid-El-Juma" - Friday Mosque - in which official announcements are made, and in which the Friday service is conducted. 20 (see Figure 3.5)

The Great Mosque "Jamie el Kebir" or "Al-Salahie"

The largest mosque, and an ancient church. It stands in the eastern part of the city, at the junction of two streets - Al-Naser street and Khan-Al-Sultan (main bazaar) - where is a fine Gothic portal belonging to the surrounding enclosure and facing east. This gateway is painted red, blue, and white, and it consists of five arches within each other, but because of the earthquake in 1927 most of this gateway was destroyed.

The church within is probably one of those erected by Justinian in the sixth century. It was rebuilt by the crusaders in the year 1167, then, it was changed to a mosque by



Source : The survey of Western Palestine

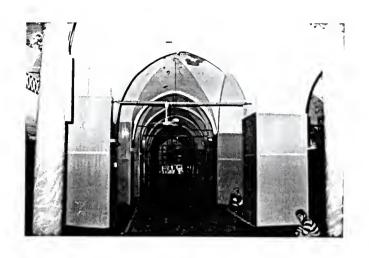
Inside the town is the "Jamie el-Kebir", which is thus described by Major Wilson, R.E., in 1866:

"The interior is irregular, and shows several additions and rebuilding; the western portion seems to be a remnant of the old basilica, as all the columns except one at that end have Corinthian capitals of perhaps a little earlier date than the

one found in the church on Gerizim; the columns are of marble and serpentine; one capital has long lotus shaped leaves which gives it an Egyptian look. The eastern portion of the mosque is irreqular in shape, and in addition to the piers there are several columns without capital, and some small columns with capitals of a later date; at the eastern end is a handsome gateway built by the Crusaders, which seems to have opened into a courtyard surrounding the church; it is now closed. except a small opening in the middle. Over the present entrance to the mosque facing the street (on the north), but half-covered with mortar, is the old lintel of the basilica; there are numbers of stones with marginal drafts built into the walls of the mosque; the Corinthian capitals in the Turkish bath close by are the same age as those in the mosque."

The mosque was visited by Lieutenant Conder, R.E., in 1881:

"It has two small courtyards, one leading from the Gothic portal on the east, and in this is a tank fed by a spring; the other narrow and long, with a tank leading from the street on the north. There are three bays of the old basilica on the west, the pillars about 2 feet in diameter, and 20 feet from center to center. The capitals on five of the shafts resemble those of the basilica at Bethlehem; the sixth has long narrow lotus leaves and no volutes. These capitals have been painted and green. Further east is a capital with drilled work; like the Byzantine work of the sixth or seventh century. The eastern portion would seem to have been rebuilt by the Crusaders, who found the basilica in ruins. The old shafts have been arranged in clusters of two, some without capitals. In one case a double marble capital cut out of one block, with details of Gothic character, has been placed above two shafts standing close together north and south. The rough white-washed piers probably conceal similar double pillars in other cases. The apses have been destroyed, and an open entrance is thus obtained from the east court and the Gothic gateway. This east gateway to the



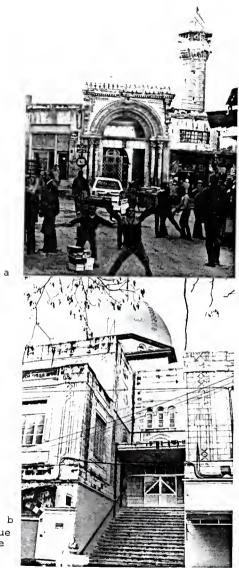


Interior of the Great Mosque

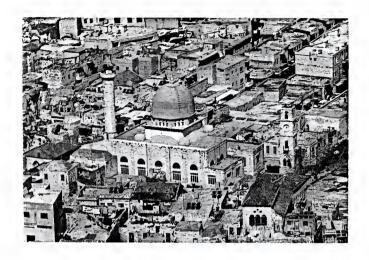
court is now painted in various colors, the columns being ornamented with bands of white, blue, and red. Four cluster columns each side, the slender dimensions, support the pointed archway."²¹

Jamie en Naser - (the "Mosque of Victory", in memory of the victory of Omar Ibn Khatab). Near the center of the city, north en Naser street "the second main bazaar of the city", this mosque is an ancient Byzantine Church, was rebuilt in the second century. In 1927 most parts of it were destroyed because of an earthquake. In 1935 the mosque was rebuilt again by the Muslims' highest council. Shops were built in its place, and a new mosque was built above the shops. "Jamie en Naser" - is the most beautiful mosque in the city, and the most dominant landmark in the area with its minaret and dome higher than any other building in the surrounding environment.

"This mosque is an ancient church with three aisles, regularly oriented and in a good state of preservation. The whole of the interior is covered with a thick coating of mortar, which prevent the dressing of the stones from being seen, and fills up all the architectural details. The present entrance is by the central apse, where the Arabs have made a new door which opens to the street, and from which you go down into the mosque by a flight of six steps. The arches are painted. The walls of the aisles are each pierced with five narrow windows with wide reveals. ... The middle which is higher than the side aisles, is separated from them by two rows of square pillars and of columns surmounted by capitals of the Doric style. The columns C, D, E, F (see plan), are of red granite, and are in two pieces. Under the columns E, F, (see plan), are circular discs, one of

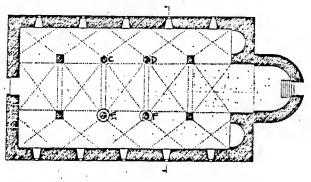


a - The Great Mosque b - En-Naser Mosque



En-Naser Mosque - The Most dominant landmark in the old city of Nablus.

ordinary stone, the other of marble. A moulded string - course runs completely round the inside of the building on a level with the spring of the higher arches. The primitive door was on the west side. On the flags that cover the ground I noticed in several places the medieval tool marks, as also on the steps of a staircase leading to a high gallery set up to meet the requirements of Mussulman worship in the north aisle. The church in its final form must have been built by the Crusaders, but the depth of the Central apse, as well as the character of certain features, would incline me to the belief that they erected it on the ruins of an ancient Byzantine church, and were guided by its previous arrangement."^{22a} (see Appendix 3)



PLAN OF JAME' EN NASER, NABLUS. Scale 1400.

Jamie el Beik:

Also called Jamie el Ain. It lies in the middle of the city in Haretel-Karyun. It is named after the Beiks of the Tagan family, whose palace is near it. This mosque was built 1158 (Muslim Calender) by Ibrahim Toquah.

Jamie el Yasmineh:

North of Jamie el Beik in Haret el-Yasmineh

Jamie Hizn Sidna Yakub (also called el khadrah)

A small building in Haret el Yasmineh - near Ain el Asl, immediately outside the city on the Southwest. It was a chapel, traditionally the site of Jacob's mourning when the coat of Joseph was brought him. "At the entrance, stones with ogive bays with moulded archivolts. The arch of the mihrab is adorned with handsome carvings. There is an Arabic inscription in so - called Carmathic characters. To the right of the great chamber where the mihrab is they show a small room where Jacob wept for the loss of Joseph, whence the name of the sanctuary, 'The Sadness of our Lord Jacob'."

The Samaritans say, that there was a church that belonged to them in the mosque place, then this church was destroyed by Muslims during Al-Mutasim period, and a mosque was built in its place. When the Crusaders came they destroyed the mosque and built a church on its place. Finally, the church was destroyed again and a mosque was built on its place by Sultan Qalawoon (1279 - 1290).

Jamie et Tineh:

In Haret el-Karyun, south of Jamie en Naser. The



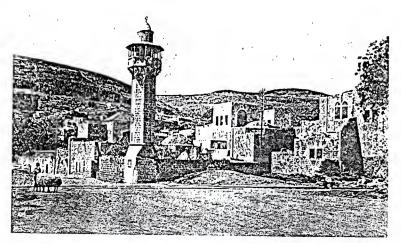


a - Al-Tineh Mosque

b - Al-Kharah Mosque

mosque and its "minbar" was rebuilt in 1310 (Muslim calend er).

Jamie Al Unbia:



Source : Palestine and das ostjordan land, Press, Ludwig, 1925.

Called also Jamie Oulad Ya'kub el Asherah. A modern mosque, in the north-east corner of the city in Haret el-Habaleh, near the railway station, opposite Buwab el Unbia ("the gateway of prophets"). The mosque is marking the spot, according to Mussulman legend, where the ten sons of Jacob are buried. This mosque, is apparently quite modern, and small, with two chambers, and a court on the north-east. The

northern chamber contains a large cenotaph. In the courtyard are some small marble - pillar - shafts, one with an Arab inscription containing the name of Caliph Omar and the date 6 22 A.H. (M.C. - thirteenth century)

Jamie el Hanbaleh:

called also el-Jamie el-Garbi, because it was in the west part of the city. This mosque is north-west of Jamie en Naser. It was rebuilt in 1330 A.H. (Muslim calender)

Jamie Al-Satun:

In Hart Al-Yasmineh near Ain Al-Satun

Jamie el Masakin (The Lepers' Mosque):

It is in Haret el-Habaleh, near Jamie Al-Unbia. It is in an ancient structure with large arches seemingly medieval. A vault about 25 feet wide north and south, and with walls 12 feet in all, the roof and all the walls but that on the east remaining almost perfect. On the east the building is broken down, and appears to have extended further. The roof is groined, with pointed arches. Many stones in the walls have rustic bosses. The building looks like a crusading structure; the lepers' houses are built in and around it. This

possibly was the site of the hospital of the Templars.

PUBLIC BATHS (hammams):

There are at Nablus a great number of baths, several of them of ancient construction. Of the many hammams of Nablus only eight are listed by many visitors to the city who gave the following list of baths (see Figure 3.5):

Hammam es Summarah:

It is in the southern part of Haret Al-Yasmineh, near the road to Ras el-Ain. It was built in the Islamic period. "The Turkish period".

Hammam el Kadhy:

It is in the middle of Haret Al-Yeasmineh, near the Old Rawddah School. It was built by a judge "kadhy" from "Al-Khamash" family as a gift to his wife, and from there it got its name. Most probably it was built in the Turkish period.

<u>Hammam el Jedideh:</u>

It is to the south of Jamie' el-Beik, in Haret el-Karyun. It was built in 1532 A.D., and it belongs to the

Tugan family.

Hamman el-Resheh:

It is in Saret el-Manarah "the minaret square", to the south of en Naser street, in the distance between Jamie en-Naser and Jamie' en-Kiber. It was built at the end of the 8th Century (M.C.), or the beginning of the 9th Century (M.C.) It belongs to en-Nimr family.

Hammam el Beidara:

It is in the same location as Hammam el-Resheh, but it is to the north of en-Naser street. The inscriptions on the bath and its columns indicates that it belongs to the Roman period.

Hammam ed Derejeh:

It is behind "Jamie' el-Kiber" from the south, in Haret el-Kesarriyeh. The foundations of the bath are pre-Islamic, while the bath itself is Islamic and it belonto the Makluk period (709 - 741 A.H. (M.C.)). It was maintained during the Ottoman period.

Hammam et Temimy:

It is at the end of Khan el-Sultan - the main bazaar -

from the east. It belongs to the Ottoman period. It was built at the same time with el-Sultan bazaar. It belongs to Al-Temimy family.

Hammam el Khalil:

It is to the east of Jamie' el-Kebir in Haret el-Hableh. It belongs to the Roman period. It was rebuilt during the Islamic period.

Public baths are institutions for the promotion of health and cleanliness, 22b The location of the baths (hammams) carefully considered. To suit the needs of the population, one was placed near Jamie el Beikm, one in the center commercial district, and another between Jamie en Naser and Jamie el Kebir. A bath was both a complex structure and an expensive enterprise, so it is not surprising to find that most of the baths, were built by governors and wealthy fami-The regular visit to the baths was one of the city's most typical national habits (hamman el Balad). Two kinds of hammans developed : the Thermal Bath, and the Public Bath. Architecturally, the two types are similar. The order of rooms is the same, although the thermal baths differ in that they have a pool in the center of the last room. baths were the only type in the city. Single baths were reserved for three days a week for women only. Double baths,

were separated for women and men, and so allowed women to visit the baths at any time during the day are not found in the city. Not much attention was given to the exteriors of the hammams as to mosques. Many city hammams are not even detached buildings. Tucked away between houses, they are only recognizable by their entrance. Detached hammams have no windows, their interiors being lit by means of glass "eyes" inserted in the dome.

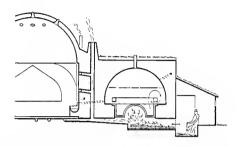
The use of various rooms

"The entrance hall was used for receiving clients, for changing, and was the largest room in the building. It equaled the size of the whole site, and could consist of one or more inter-connecting rooms. Along the walls were slightly raised (5 to 8 feet) board balconies, covered with mats and carpets, where clients could rest after their baths and acclimatize themselves to the cooler atmosphere."

The Tepidarium

"The second room, the tepidarium, was moderately heated so that the visitor could get used to the heat. In accordance with Islamic beliefs, toilets and depilatory were to be found off this intermediate room."²³

"The third room was the hot-room. It was a domed octagonal hall, around which were open recesses containing water basis. Along the walls were low marble benches. A stone table of the same height served as a massage table. Immediately behind the hot-room was the boiler-room."



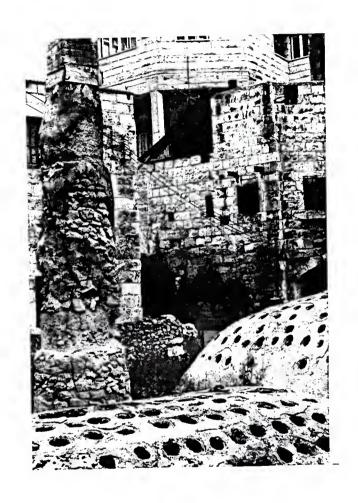
The heating system in the Turkish Bath Source: Ottoman Architecture, Ulya, Vogt-Goknil, 1966

The Heating Arrangements

"The boiler-room was the rear of the building. The intermediate and hot-rooms were heated by hot air which circulated under the floor's stone tiles. The fireplace in the boiler-room was at a lower level than the floors of the other rooms. The fire heated water in a huge kettle and steam was distributed to the other rooms by means of channels. The temperature of the hottest room fluctuated between $86^{\circ}\mathrm{F}$ and $104^{\circ}\mathrm{F}$ but in private cubicles next to the boiler room it was much hotter."

Hammam el Jedideh:

El-Jedideh hammam has remained the largest and most important hammam in the city. It is the only one that is still functioning today after some hundreds of years of

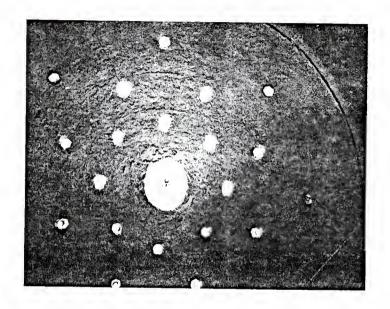


The roof of "Hammam" el-Jedideh

continuous use. It has inscriptions on its entrance. For the practical purpose of saving and keeping heat, "el Jedideh", like most hammams is surrounded by building and is hardly visible from the outside, as was also customary, the facade was kept plain.

The hammam has a single entrance, at the end of a long corridor, to the south of "en-Naser" street, south "Jamie el Beik". The entrance leads indirectly to the hammam both to provide privacy and to avoid drafts. This entrance leads into a large square room with three raised iwans, an octagonal pool in the center, and a high raised dome with two skylights, all typical and necessary elements of the room known as the "mashlah" or changing room. There the bather disrobes leaving his clothes in drawers provided, and there also he rests after the bath on the couches along the walls of the iwan. This is the only area of the hammam that is free of heat and steam, so whatever furniture is needed has to be kept there.

From the "mashlah" one proceeds to the actual bathing area. In all three areas - cold, warm and hot - steam and heat must be controlled, so every effort is made to avoid drafts; hence there are no windows in the bath. Light is provided by small glass openings studding the domes, which allow a small amount of light to filter through.



The cold room (A) (see Figure 3.7) known as the "Wastani Barrani" (outer central), is the first room, to the right, of the bath proper and acts as a transition between the cold mashlah and the heated area. The warm room (B) known as the "Wastani Juwwani" (inner-central), is the room where beauty treatments take place. This area consists of one room, known as "magsurah", opening off from it.

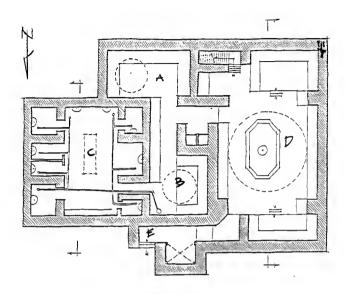


Figure 3.7

Plan of Hammam el-Jedideh

- A The gold room
- B The warm room
- C The hot room
- D Summer, changing room
- E Entry

Source : Personal Communication, 5th Year students, Dept of Architecture, An-Najah National University, Nablus, 1987

The hot room (C) known as the "Juwwani Hararah" (Inner-heat) is where the actual bathing takes place. The clients sit on built-in benches until they perspire, and then they wash. Here again the central area has one room only.

From the inscriptions on the main entrance we see that hammam el Jedideh was built in 1532 A.D., and it belongs to the Tugan family.

KHANS:

In Nablus, guest - houses were available for every class of people. The buildings erected to afford a night's lodging to travelers, merchants and postal convoys are called "khans" or "wakalahs". (see Figure 3.5)

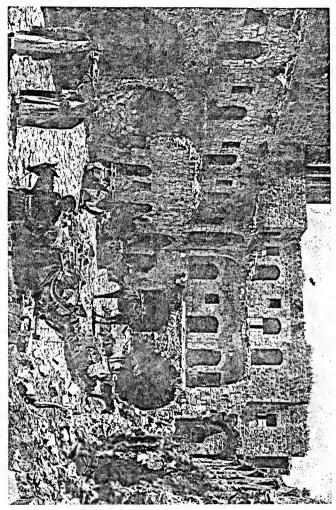
"In the khans the traveling merchant would attend to the safety of his goods and wares, to repairs of his vehicles and the needs of his camels and horses, do his buying and selling, perform his ablutions and devotions and a day or so later, pursue his journey. In the time of war these buildings were also used for storing food and ammunitions. These were the requirements which the architect's plans were devised to meet."²⁴

Wakalalet el Gharb:

Called also Al-Farokheyeh, after Farokh Ibn Abdullah who built it in 1620 A.C. It is in the west part of Khan al Jujar, to the south near Bab el Gharb "The West Gate." ²⁵ This complex opens through a monumental portal, into an open court with two-story arches behind which are rooms; the lower level is occupied by shops and store rooms, and the upper by living rooms. Each room can be reached from open arcaded galleries set around the rectangular courtyard. These rooms are brightly lit and equipped with hearths and shelves.

In the center of the courtyard was a large fountain used for washing before prayer (as in mosque courtyards). The direction of Mecca was indicated by a simple stone. Old people say that there was a small one-roomed mosque in the courtyard. In 1927 most parts of the khan were destroyed as a result of the earthquake.

"In the larger khans, however, the gateway leads into an open courtyard. Around this are arched and vaulted storerooms for baggage, hay and oats, separate private rooms with hearth, dormitories, bathroom and lavatory, as well as the gateway rooms for the innkeeper and janitor, a coffee-room, repair-shops for the vehicles, a smithy, and stables for the animals. In hot regions a stairway also leads up from one side of the courtyard to the flat roof for the evening assembly."



Wakalelet el Gharb (Al-Farokheyeh)

Source : Palestina and das ostjordanland, Press, Ludwig, 1925

Khan Tujar:

It is in the center of "Al-Sultan" bazaar to the north.

The best description for this khan was given by Miss Rogers who was a resident of Nablus for some years in the 1880's:

"An opening in the middle of this arcade leads us into an extensive khan, well-planned, but so out of repair as to be almost useless. It is an uncovered square space, enclosed by a two-storied range of buildings. The ground floor is well adapted for lodging camels and other beasts of burden, but the upper chambers are so dilapidated that they afford but little shelter. We mounted a broken stone stairway, and with difficulty reached the terraced roof, which commands a good view of the town."²⁷

AL-ZAWAYAH "MAUSOLEUM"

These buildings were constructed to house sufis, mainly Derwishes or other mystics. Such monuments, have filled specific needs and are an important aspect of the townscape, in modern time, mausolea have become chief national monuments to the memory of the founder. People, still visit these monuments from time to time, pray to God and light candle. (see Figure 3.6)

Beshr el Haffi:

In Haret el Hableh west of Jamie el Unbia. A large room with a mausoleum inside. People say that, el Haffi was buried there, while historians say that el Haffi was buried in Bagdad in the year 227 A.H. (M.C.)

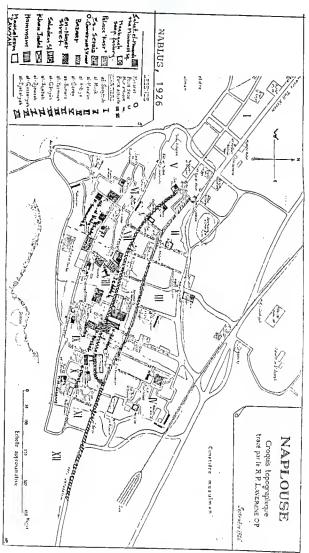
Derwishiyeh:

A small mosque near Jamie et Tineh, in Haret el Karyun. In this area there are the tombs of "Darwish Murad" and his brother "Sheikh Ahmed". Today Al-Bustami fmaily is taking care of this Zaweyah.

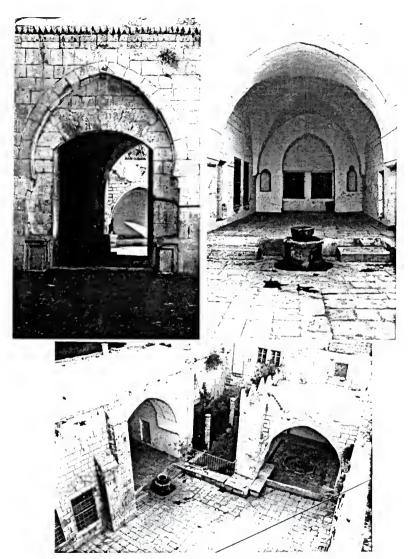
Sheikh Badran:

It is in the center of the town, north of the Seraia (the Governor's house). The mausoleum of Sheikh Badran is to the west of el Saraia, near the school named after him. Recently this school was changed into shops. Sheikh Badran lived in the seventeenth century.

The remaining buildings in the old city include the Governor's House (es Seraia) in the center of the city, to the south of Jamie en Naser. Near it, on the south, is the palace of the Beik "sheikh" of the Tuqan family, which is the largest building in Nablus, and said to be capable of containing 1,000 soldiers, with a stable for their horses. It



Source: zuhir Dobie, Nablus, 1988 87

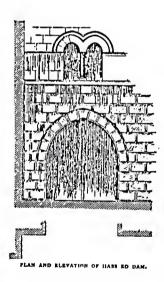


Views of Al-Nimer Palace

consists of three main courtyards, the entrance courtyard, the southern courtyard, and the northern courtyard. (see Appendix 4 for plans section and elevations).

Other large houses of Abd el Hadi and Al-Habulsi families are to be found in the same quarter (Haret el Yasmineh). Al Nimer palace is another large palace in Haret el Hableh.

Habs ed Dam



Source : Archaeological Researches in Palestine, C. G., 1896.

"The prison or cell of blood" Two pointed arches arranged at right angles, one open, the other blocked up. The stones of the arches and the blocks on the facade have flat bossages, and are pock-marked, with small delicate tool marks, not diagonal, round the edges. Above the two arcades is a twin ogive bay, the two archivolts of which rest on a small column with capital and base, and on a cornice which is extended right and left along the facade. in one of the angles is a small spring of water. ²⁸

Khan Ezbib:

In the north-east angle of Nablus is a ruin called Khan Ezbib (The Raisin Mart). It has on its south side a fine pointed archway, the keystone and voussoirs of stones carefully crafted, the bosses well worked. It looks like crusading work, but has neither masons' marks nor the distinctive medieval dressing. The wall is of masonry similar to that of the arch, perhaps a fine specimen of Arab work. The Khan has a lofty ogive arch in the middle of a wall of bossed stones, and exactly resembling in style at Habs ed Dam.²⁹

SOAP MANUFACTURING:

The manufacturing of soap was the chief industry of Nablus. (see Figure 3.6) The soap was made from the pure olive oil favored by Muslims, coming mostly from local groves and being processed with an alkali in a vat, as seen in Figure 3.8.

Thomson, who visited Nablus in 1882, wrote:

"There are at least twenty of those factories, so called, and this number is accounted for by the fact that the surrounding country abounds in olive-orchards, which furnish more oil than is needed for ordinary use, and the ordinary disposition of this surplus oil is converted into soap. The people of Nablus carry on considerable trade with the seaport towns from Jaffa to Beirut, and with the Arab east of Jordan, not only in soap, but also in grain, wool, sheep, and oxen." 30

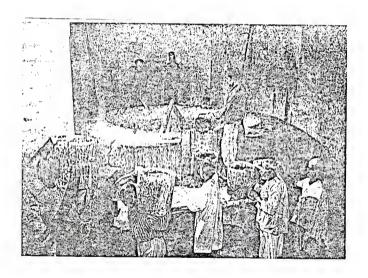


Figure 3.8 Soap Manufacturing - Nablus
Source: Palestinians and their society, Sarah Brown, 1980.

Lewis Leary visited the city in 1911 and said :

"In the town itself there are a number of manufacturers of olive oil soap. It is the only place in Palestine where I have been awakened at five o'clock in the morning by the shrill blast of a factory whistle." 31

In 1927 there were 24 such factories in Nablus, employing an average of 5 to 6 workers each. Labor was hired on a contract basis by a ra'is or supervisor who also controlled production. The soap industry of Nablus, provided the most important manufactured export from Palestine in the nineteenth and early twentieth centuries. The soap industry declined in the 1930's for two main reasons. First. which had previously provided a market for almost half the annual production of Nablus soap, followed a world-wide trend in the recession and raised high tariff barriers against imported soap to protect its own industries. Second, the possibility of selling the resulting surplus on the home market was diminished by the appearance of a competitor the form of a large new Jewish-owned soap and oil factory Haifa. 32

The Nablus soap industry was mostly in the hands of the traditional notable families there - such as al-Masri, al-Nabulsi, Tugan, Shak'a, and Abd al-Hadi (see Appendix 5 for plans of Sabanet Abd al-Hadi).

One of the ancient soap factories is <u>Masbanet el Ghaz-zawy</u> - a building of medieval origin made into a soap-works, as is shown by the name ("the soap-works of the man of Gaza"). The medieval tool-marks appear on the whole of the lower part of the door and the part of the arch that surmounts it, which has a moulded torus and rabbeted edges. The threshold is formed of two stones of the pillars of hewn stone, with moulded cornices. At the back is an orientated apse. All the stones display medieval tool-marks.³³

Ancient Masbaneh:

Another soap-works, now the oven of Salim Beik. It has a door like that of khan ez z'bib. In the (modern) wall opposite, on the other side of the street, there is a fragment of medieval cornice built in, which extends over several yards. 33

DECORATION:

Once a building was planned and endowed, the next important consideration was its decoration. Decoration could be either simple or complex part of the structure or applied to it, in monochrome or in polychrome. It was always indicative of the patron's wealth as well as of a desire to beautify the building. The areas of a monument most apt to decorated are, therefore, its most conspicuous parts. 34 the outside of the buildings, the minaret (if there is one), portal, and windows are three elements where decoration tends to be concentrated. Minarets are the landmark of a mosque (en-Naser Mosque, el-Kiber Mosque, Al-Khadrah). The minaret's most visible upper part is the most elaborately decorated, whether a cube over a square shaft (Al-Khadrah) or cylinder over a round one (Al-Naser), or a cylinder over octagonal one (Al-Unbia). In the case of square minarets the upper cube is larger than the shaft, and rests on a decorative "muqarnas" arranged in a continuous band or in corner motifs or over a band of triangular elements, it is opened by decorative single or double windows and is topped bya conical roof over a short shaft. The circular minaret have a cylindrical flattened-out mugarnas which in turn carries another cylindrical unit topped by a conical roof. In some cases the decoration is evenly distributed on the entire height of the shaft.35

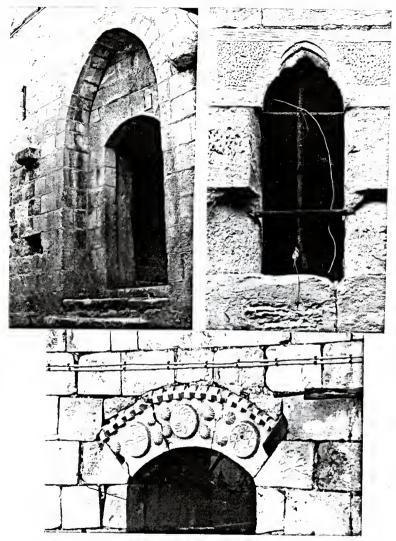
Portals are another common recipient of decoration (bawabet el-Beik, Abdul Hadi).

Most buildings of the old city of Nablus, no matter how large or small, have some developed unit for an entrance, and quite often gates are their most elaborate and decorated element. The mosques, the palaces, the soap factories, ... etc., all have their decorative elements concentrated on their gateways. The portal through which the monument is entered becomes the single most ambitious element of those buildings. In other cases the portal reflects the beauty and decoration of the interior. As in en-Nimer - Tuqan palaces or the simplicity and minimal decoration of the building inside. Rarely does the old city of Nablus have a portalless decorated than an interior. The gateways were regarded as the show pieces of the monuments, to which they were attached and hence received as much decoration as the founder could afford to commission. (see Appendix 6)

Finally, a third element which was apt to be decorated are windows. Windows are always topped by a course of joggled stone. The lintel above the windows, or the course of stone above the lintel is always of joggled stone forming a decorative pattern of varying complexity. Occasionally a relieving arch above the lintel of a window, is built of



Portal with original wooden door, old city of Nablus



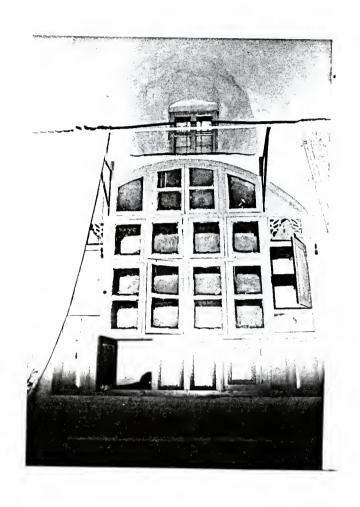
Stone decoration, old city of Nablus

joggled stone in quite elaborate pattern which is believed to be of Turkish origin. (see Appendix 6)

Interior Decoration

Inside the mosque, areas most commonly decorated are the mihrab wall toward which people turn in prayer, the mihrab itself, and occasionally the floors in the most important areas. As is always the case in the old city of Nablus, and elsewhere in the Muslim world, the mihrab will be identifiable by some sort of decorative feature, as a cushion arch, or simple columns with capitals, etc. In elaborate interiors, the mihrab is correspondingly the most elaborate element. 36

A final interior element that is commonly decorated is the floor. In the areas of important buildings, where people pray or perform ablutions, the floors have extensive marble of tile decoration in organized square patterns even though the floors of the praying hall are usually covered with carpets. In the case of a palace the same attention was paid to the floors, and in some cases to the ceiling.



Interior view, in a house, old city of Nablus

Techniques

Decoration in the old city of Nablus falls into two categories, it is either part of the architecture, or it is applied to the architecture. 37

Structural decoration is most often to be found on the outside of a building, and it can be an integral part of the medium of construction itself. Applied decoration is almost entirely confined to the interior.

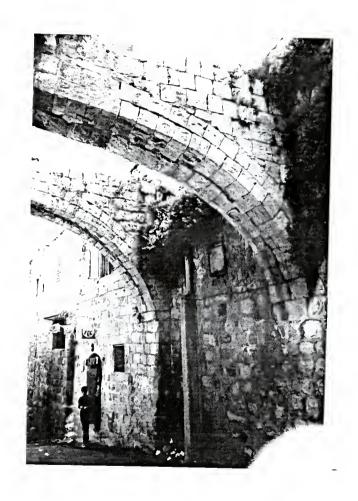
A very different kind of decoration, but one that can also be considered part of the architecture and is sometimes used as a decorative motif, is the inscriptions. In most of the buildings the inscriptions perform a utilitarian function – they are only there for the message they contain – but in a few cases, the inscriptions, given a prominent place on the facade, have a definite decorative function as well. The inscription between lintels and relieving arches also have a decorative function. (see Appendix 7) "Many of the Mussulman houses in Nablus have over their doors long inscriptions painted in red, nearly all containing the same formula, and design to inform the passer-by that the owner has performed the pilgrimage to Mecca." 38

There is current capability of a stone masons to maintain and reproduce the stone bearing wall construction and decoration techniques.

Methods and Materials of Construction

The buildings of Nablus use local limestone almost exclusively, both inside and outside, for the walls, piers, and vaults, and in all types of structures. The local white stone was commonly used to construct modest buildings; commercial buildings - like khans - and functional structures - like Ains "fountains". 39

Well-cut and sometimes well-dressed stone is a medium of construction that provides an air of solidity, sobriety, and grandeur to a building. We can see this in the facade of "Tugan" or en-Nimer palaces, the entrance to Jamie-el Kebir. When it follows the lines of the architecture, carefully executed masonry can make even the functional elements of a building look powerful and impressive, as it does in some of the stone domes of the city, and the gates of the palaces. Stone was also used for decorative motifs on walls, arches, and openings. Visual effects were also produced by a mixture of stones on facades, and around openings. (see Appendix 6 &



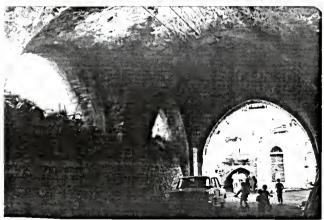
Buttresses in the old city of Nablus

SUPPORTS:

Columns, mainly of reused granite or stone with either reused classical or contemporary capitals, are occasionally found as supports, but the instances are rare; columnar buildings were not common in Nablus, and when they were used, it was only in mosques, Jamie en-Naser has eight reused classical columns, with capitals of Doric style, dividing the prayer hall into a three-aisled area. Piers are another kind of support not commonly used, and then only in mosques. Columns and piers are probably encountered in the prayer halls of mosques because they provide a support for the roof that leaves space for large gatherings and they lend a sense of unity to large areas.

The most common support was either a plain, simple wall, or a wall pierced by arches and bays. Since most of the buildings involved are already small and are broken up into a series of smaller areas, the wall was the most appropriate choice, since it could act as both divider and supporter. The choice of support for buildings is also directly related to the super structure the supports have to carry. Vaults and domes usually require walls.





 $\mbox{\sc Vaults}$ and cross vaults are the main supporting system in the old city of Nablus.

SUPER STRUCTURE

Vaulting and domed structures commonly cover square and rectangular areas. Occasionally, they are simple barrel vaults, especially in khans and corridors, but the simple cross-vaults cover the bays created by pillars in prayer halls, the galleries around courtyards, entrance bays, square and rectangular rooms, the series of rooms in khans - in short, practically every area in need of roofing.

In typical "Nablus" vaulting the lines of the cross-vault have a concave groove which starts from the corner of the wall "rukba" or arch and widens toward the center, the four grooves usually meet in a central concave rosette - the concave rosette is also encountered as a decorative motif in the ceiling of some buildings. 40

In addition to vaulting, domes in a great variety of sizes and shapes were a common means of roofing. The areas covered by domes are invariable the most important, conspicuous, and sacred parts of a building. All tomb chambers, for instance, are domed, so are most areas in front of the minrab. Some of those domes are extremely well built, and very

logical in their arrangement, others are awkward in both conception and execution. 41

Today, people prefer to use flat roofs for economic and time factors, and because they like to keep with the modern styles of construction and architecture.

<u>Notes</u>

Shiber, Saba. <u>Recent Arab city growth.</u> Kuwait Government Printing Press, 1967. p. 218

ě

- Amos, Rapopot. <u>Human Aspect of Urban Form</u>, New York, Wheaton an LTD, Exeter, Pergamon Press, 1980, p. 225
- Ritter, Carl, <u>The Comparative Geography of Palestine</u>
 and <u>the Sinaitic Peninsula</u>, Greenwood Press,
 Publishers, New York, 1968, p. 308
- Carpenter, G. Frank. <u>The Holy Land and Syria Grand City</u>, New York, Doubleday, Page and Company, 1925, p. 157
- Tristram, H.B. <u>The Land of Israel or A Journal of Travels in Palestine</u>, second edition. London : Society for promoting Christian knowledge; 1866. p 153 & 150
- 6 same as 1 , p. 157
- Thomson, William M. <u>The Land and the Book, Central Palestine and Phcenicia</u>, New York, Harper & Brothers, Publishers, Franklin Square, 1882, p. 142
- Stanley, D.D. Penthryn, <u>Sinai & Palestine in connection</u> <u>with their history</u>, Draf Publishers Limited, London 1986
- 10 same as 5 , p. 142 143
- Strange, Guy Le. <u>Palestine under the Moslems, a description of Syria and the Holy Land, from A.D. 650 1596</u>, Khayats, Beirut, 1965. pp
- 13 same as 3 , p. 302
- Al-Dabagh, Mustafa. <u>Beladuna, Palestine</u> First Volume, Al-Taher Brothers Library, Jaffa, p. 145 -46 Arabic reference

- Conder, C. Reicnier. <u>Tent work in Palestine</u>, London, 1879, p. 61
- 16 same as 8 , p. 143 44
- Leary, Lewis G. <u>The Real Palestine of Today</u>, New York, McBride, Nast & Company, 1911, p. 149
- 18 same as 9 , p. $^{234-5}$
- 19 same as 12, p.28
- Unsal, Behcet. <u>Turkish Islamic Architecture</u>, London, 1959, p. 15
- The Survey of Western Palestine, p. 208
- 22 same as 20 , p. 74
- Goknil, Ulya V. <u>Ottoman Architecture</u>, Grosset & Dunlap, New York, 1966, p. 175-76
- 24 same as 20 , p. 48
- 25 same as 14 , p. 141
- Brown, Carl. From Medina to Metropolis. Princeton: The Darwin Press, 1973. pp 300
- 27 C-G. <u>Archaeological</u> <u>Researches in Palestine</u>, Vol II 1896, p. 313 - 314
- 28 same as 21 , p. 210
- Brown, Sarah, G. <u>Palestinians and their society 1880 1946</u>, <u>A Photographic Essay</u>. Quartet Books, London, New York, Melbourne, 1980, p. 113-14
- 30 same as 8 , p. 145
- 31 same as 17 , p. 150
- 32 same as 27 , p. 316
- Liebich, Salam. <u>The Architecture of the Mamluk City of Tripoli</u>, the Aga Khan program for Islami Architecture at Harvard University and the MIT, Cambridge, Massachusetts, 1983, p. 214
- 34 Liebich, Salam, same as 33

- 35 Grabar, Oleg. <u>Islamic Architecture and Its Decoration</u>, the University of Chicago Press, 1964, pp. 77
- 36 Grabar, Oleg, same as 35 pp. 73
- 37 same as 27 , p. 328
- Kahaan, T. The Palestinian Arab House: Its Architecture & Folklore, Journal of the Palestinian Oriental Society, Vol XII, Jerusalem, p. 232-40
- 39 Kahaan, same as 38 , p. 12-17
- 40 Kahaan, same as 38, p.20-22

CHAPTER 4

PLANNING AND URBAN DESIGN ISSUES



PLANNING AND URBAN DESIGN ISSUES

The social, physical and ecological environment of the historic quarters of Nablus are in a state of crisis and confusion resulting from decades of piecemeal and even rapacious exploitation of resources and short sighted incremental and non-comprehensive planning.

Most of the streets of today's old quarters of Nablus are designed for pedestrians. The quarters have been planned as self-contained communities in which every activity took place through pedestrian-scale narrow streets and alleys.



Cars in al-Karyun quarter, 1987

"The narrow, winding streets were, accordingly, a sort of built in system of traffic control, inhibiting the movement of men, animals, and commodities through areas where it was preferable that they be barred or at least limited. It all added up to an informal, but nevertheless, effective zoning plan. Certain areas were deliberately given narrow streets and relatively less accessible locations. Others, responding to the needs of bulky or heavy exchange, were situated where this could be achieved with a minimum of confusion, usually close to or just beyond the city's outer walls. Still other city activities were located in conformity to their industrial needs."

With the arrival of the automobile at the beginning of the 20th Century, the street pattern was found to be inefficient and sometimes totally unsuitable. Therefore, Nablus underwent a drastic physical change primarily for transportation on the legal basis of a "Street widening Act".

"At present, therefore, Middle Eastern cities are expanding rapidly but in a piecemeal uncoordinated fashion, with growing car ownership amongst the new middle classes." 2

"Naturally, it is inevitable that we build wide streets in order to accommodate motor cars. However, there are better means to provide for cars than to widen the existing streets in the historical quarters and ruin their character. One proposal is to surround the old quarter with a ring road from which cul-de-sac streets could penetrate inward. This would allow easy access for ambulances and fire-engines and other emergency vehicles."

In addition to street widening, stone was replaced by asphalt as a paving material in many streets in the historic quarters of the Old City of Nablus.

This replacement of stone with asphalt along with the widened streets had several negative impacts on the urban design fabric of the old city of Nablus:

There was no comprehensive zoning plan to create harmony and rationality to assure appropriate use of preserve open space, in short balancing all the essential supporting facilities of new environments. There existed no rationale to preserve the human-scale for the benefit of man.



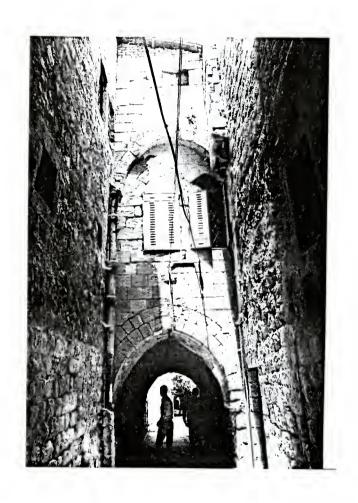
Narrow streets became parking lots for cars in the old city, 1987

Janet Abu-Lughod suggests that many Middle Eastern countries, when compared with developed countries in the nineteenth century, are

"developing under very different circumstances of transportation and communication. They appear to be moving into the new larger scale of urban hierarchy, by passing that intermediate stage that gave rise to what we have mistakenly called 'normal' or 'balanced' urban hierarchies ... it would be foolhardy to aim at the creation of a hierarchy scaled to a now defunct technological situation simply because it conforms to norm."

Narrow streets in the historic quarters became parking lots and neighborhoods lost their natural human scale and started to suffer from the intrusion of the machine.

With the increased number of automobiles in the second half of the twentieth century, traffic in the historic quarters of Nablus became a considerable problem, especially during the rush hours which paralyzed all the streets of the historic areas. New areas were provided with adequately designed streets. Human activities and land uses had to be rearranged in order to fit with the modern travel methods.



Street in the old city of Nablus, 1987



En-Naser street was not designed for cars

In addition to the problems created by automobiles, several other inadequacies for sound urban planning for the historic quarters of Nablus resulted from the following:

The municipality is not equipped as adequately as it should be to collect, collate and analyze information needed for synthesis and design. Municipal engineers are so underpaid that they are often forced to resort to unorthodox means to supplement their meager wages. Such means like concentrating on private practice that usually becomes more important than their civic responsibilities. The municipality is usually so busy with routine and time consuming paper work, with granting building licenses, with paving roads and sidewalks, with contractual work and supervision, that no time is left for actual planning.

Hassan Fathy suggests that;

"when Middle-Eastern countries changed to the so called modern style, two factors continued to be virulently active in prohibiting design in the traditional style:

- 1) The municipal laws, which are based on the assumption that all buildings are extroverted, and
- 2) training given to architects at the universities.

Arab architecture is completely ignored in the curricula of design and theory of architecture and often considered to be 'exotic' in general histories of the subject. The result is continued and widespread of examples of the most inappropriate designs - witnessed in almost all cities of the Middle East."

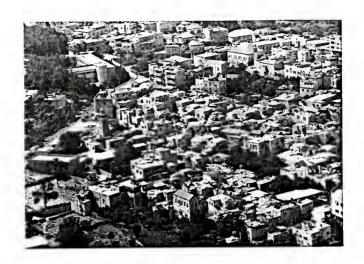
Due to the present political situation, the city of Nablus as a piece of urban creation, is a sad example of the twentieth century's missed opportunities in architecture.

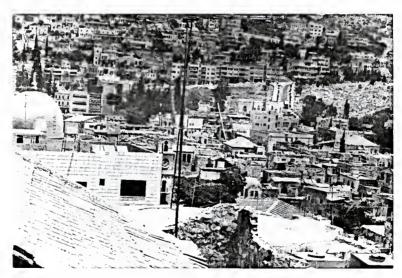
In many cases, it is the absence of a sense of integration into a comprehensive urban fabric, and not so much the lack of quality in architecture itself, that produces architectural failures. Or, to put it in another way, the architectural design may be excellent when judged on its own terms, but disastrous in terms of its surroundings because it has been conceived in isolation. New construction has failed to respond to Arab tradition. There is no further need to imitate Western culture.

Abdulla Y. Bokhari looks to this problem as:

its "in the beginning, lack of integration of new and old could be attributed to the speed at which modernization had to take place, and especially to the need to provide for the numerous newly introduced automobiles with adequately wide avenues. But as the taste and the life of the people changed, it simply became too late to attempt any physical or even functional integration of the old with the new ways of doing things."

"In the contemporary Arab-Muslim city, the process of relying on customs of use for generation and control of change has been replaced by another process which relies on preconceived, prescriptive conventions of form. ... most of these conventions developed in different social context.





Modern sturctures in the historic quarters, 1987

As a result of borrowing physical conventions from other contexts and applying them in the Arab-Muslim city a duality has developed in the system as a whole and more specifically in its regulatory mechanism. On the regulatory level this duality has resulted in confusion and contradiction... on the physical level, we have the old and new environments distinctly apart from each other. This, on the social level, has encouraged the segregation of the city's inhabitants into poor or rich respectively."

Absence of statistical method and comprehensiveness, accurate population data, demographic information, and necessary surveys in the planning process of the historic quarters resulting from occupation and lack of financial support, created social injustices. Only rough estimate existed that could not be depended on for serious analysis to introduce and implement sound planning. Moreover, the role of planners and architects are limited in the large-scale programs.

"one factor which encouraged and probably reinforced the development of the contemporary rather than the traditional environment concerns the field of architecture and urbanization on both the intellectual and the practical level. The field of urban studies is an outcome of modern social science which itself grew out of and is based on the idea of urbanization in the west."

"Another factor which certainly helped this process is the almost complete lack of analytic studies on the traditional Arab-Muslim city. Most of the studies on the traditional physical environment tend to rely on descriptive methods which one barely, if at all, informative in understanding the process of physical development."

A long history of foreign intervention - Ottoman rule, the British mandate, Jordanian rule and Israeli occupation - as well as the absence of professional civil service, have miligated strongly against the introduction and application of sound city and regional planning.

In the past, time pressures have forced decisions to be made without reference to a long range vision.

"Modern developments are often conceived in isolated blocks and use the historic fabric as the quarry, so to speak, out of which open spaces are cut. Because the topology of block development is not compatible with the contiguous cellular structure of the traditional urban fabric, problems crop up at the border between old and new that remain unresolved, leaving open scars in the structure of the old city which will eventually provoke further destruction. This mutual rejection by two incompatible types of tissue makes transplantation of new elements extremely difficult or impossible to accomplish."

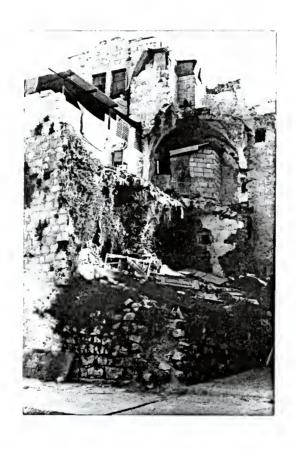
"By implementing large-scale projects of huge dimensions all at once, no time is allowed for an evolutionary process. The old city is given no chance to adapt the intervention or to recover from the surgery; mistakes cannot be corrected; lessons cannot be learned; and a genuine local tradition has no time to develop."



Large scale modern building in the old city of Nablus $\,$

In most areas of the old city of Nablus the original dwellers have moved away to the suburban areas and have been replaced by rural immigrants. Social changes have made families much smaller than they used to be, nuclear families replaces extended families, and this, combined with the in-

creasing population density caused by rural migrants, often means that the existing housing stock is totally inadequate.



Most parts of the old city were not preserved after the 1927's earthquake, 1987

"changes were also apparent in the residential districts. .. The rich were beginning to move to the suburbs that were opening up to settlement as transportation improved." 10

"The overcrowding of the madina soon caused population movement outwards to other parts of the city. The families who found it easiest to relocate were those linked to the alien power structure. ... Their places were taken by newer and poorer arrivals to the city..."

"The effects on the physical fabric of the old cities was devastating - as the more affluent residents moved away their houses were increasingly subdivided in a process of 'taudification'." 11

To date no significant move toward gentrification has taken place in the city. The traditional houses, even those still in the hands of a single family, are half-deserted, ill-maintained, and often crumbling, or split into small apartments, gathering several independent units around a single courtyard, which is then divided up to provide privacy for each tenant family. In some of the disintegrating old houses, top stories are starting to crumble even as people work or live on the floors below. (see Figure 4.1) The owners neglect the decoration and woodwork, because maintenance is too expensive or because the craftsmen available no longer know how to do the work. (see Figure 4.2)

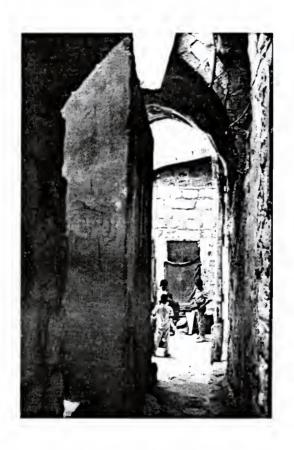


Figure 4.1 $_{\mbox{\scriptsize New}}$ additions were added at the expense of the narrow streets

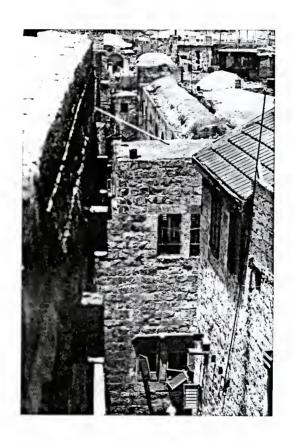


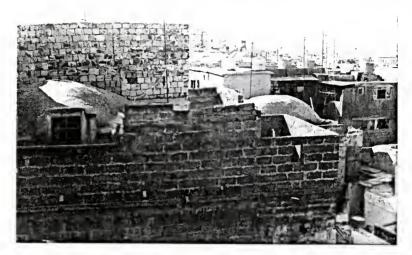
Figure 4.2 Old windows are neglected in the old city of Nablus $\,$

"Social segregation now threatens to turn the madina into a quarter for the poor and destitute, because living in the new areas of the city has become a symbol of success. Buildings are deteriorating as the old dwellings are sold or turned into rooming houses for immigrants unable to maintain them, further jeopardizing the architectural patriment maintained because the municipality prefers to spend its revenues in the new areas of the city."

Some of the owners demolish houses because they no longer suit their needs, and because they wish to build new structures that will generate higher profits.



Concrete became a major construction element, 1987



New construction materials are introduced to the old city, 1987



Figure 4.3 Concrete wall in the main open space of Al-Karyun quarter, 1987



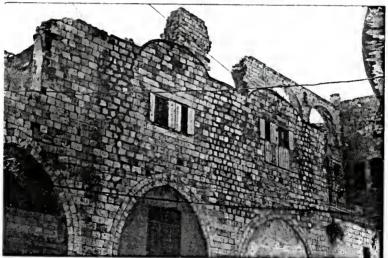


Figure 4.4 New window materials are introduced to the old city, 1987

New elements such as corrugated iron sheets and concrete pillars and walls, are also appearing in the urban landscape as materials for renovation and repair. If people apply paint, the color they use can threaten the harmony of the street. 13 (see Figure 4.3 and Figure 4.4)

Many tenants in the old city of Nablus are trying to improve their residential units by using new materials and adding new openings and balconies. They see these changes as improvements, but in the process of making them they are destroying the harmony of the old city. (see Figure 4.5) Introducing sanitation facilitates, while necessary, also can often damage the streetscape, as can be seen in most parts of the historic quarters, where plastic pipes are introduced. "Where modern air-cooling devices compete with "mashrabiyyas", - bow windows - comparable esthetic consequences result."14 (see Figure 4.6)



New stories are added on the top of original buildings, 1987



Figure 4.5 New additions on the top of the old building, 1987 $\,$



Figure 4.6 Plastic sewage pipes damage the streetscape, 1987

Additions built on the top buildings are changing the architectural character of the structure and the city scope as new materials, new proportions, and quite different styles are introduced in them. These additions can be explained in economic terms, but they can be esthetically displeasing as well as structurally dangerous, since the buildings were not designed to carry them. 15

Very little effort has been made to equip the old city with modern facilities, or to adapt the facilities it has to its special cultural needs. One elementary school has been built inside the walls, in al-Qaicariya quarter, using up what was once open space. Not only does it add to the crowding of the madina, but it is in no way integrated into its surrounding. Worst of all, many traditional facilities which originally had very important functions and which had provided a certain climate of humanity, were neglected, abandoned, or transferred to the new city. They include old schools (the old Najah school), Hammams, Khans, springs, etc.

Shopping patterns have also changed. The bazaars are now almost always deserted. Juice is bought in cans instead of using natural fruit. Shops need to have display windows and lighted signs, which changed the entire character of the bazaars. These improvements spoiled the whole image of the

bazaars since the bazaars were designed to accommodate many activities, and not to be treated as museums.





Shopping patterns are changed, 1987

"In many cities separate commercial centers have appeared outside the historic core, and these new

central business districts have begun to absorb most of the evolving modern retailing facilities and banking functions. Nevertheless the old town remains the most powerful low-income commercial center of the city, serving an increasingly dense, poor residential population as well as traditional provincial customers. However, intrusion of foreign manufactured goods, changing demands and aspirations of the people, and in some cases the influence of international tourism, have greatly modified the 'sugs'. Production patterns have also altered. Many of the small workshops located in and around the bazaar complex have disappeared and declined through competition from both imported and local mass-produced factory goods. The large, modern factories established in recent years are located outside the old city where cheap land is available for building." 16

Khans (inns), wakalas, and funduqs (hotels), were meant to be used simultaneously for people, goods, animals, and even some crafts, storage, and shops. They were important places in the economic life of the historic quarters of Nablus. Most of them have been turned into warehouses or housing units for the poor. Still others have offices or other structures built in the middle of their courtyards, with a small passage left between them and the peripheral galleries.

An infrastructure has to be introduced into the old areas to provide the same living and health standards as residents of the newer areas of the city enjoy. Bringing water to each house has a profound effect on the streetscape, which by providing running water pipes in the streets, with



Figure 4.7 Plastic pipes, electric cables damage the image of the old city.



Figure 4.8 Electric cables spoiled the facades of the buildings, 1987





Figure 4.9 T.V. Antenna, water pipes cause many problems to the landscape of the old city, 1987

concrete boxes to fix them to the ground, spoiled the appearance of the streets. Garbage disposal, asphalt covering ancient cobble stones, graffiti, television antenna, and the introduction of telephones and electricity, with their wires, cables, and transformers, pose similar problems for the traditional urban landscape.² (see Figure 4.7, Figure 4.8, and Figure 4.9)

In contrast to the lack of concern for the old city of Nablus as a whole, some care has always been shown on the part of rulers for the large monuments, especially the great mosques. Their maintenance has ensured their preservation as cultural symbols up to the present time.

Although much damage has been done to the historic quarters of Nablus, the opportunity still exists to salvage what remains, and restore it to become a glorious Palestinian city as it used to be in the past.

NOTES

- Brown, Carl (editor) From Madina to Metropolis
 Heritage and Changes in the near Eastern
 City. The Darwin Press, Princeton, New
 Jersey, 1973. pp 34
- Clark, B.D. "Urban Planning Perspectives and Problems" in <u>The Changing Middle Eastern</u> <u>City</u>. Edited by G.H. Blake and R.I. LAwless, London: Croom Helm, 1980. pp 159
- Fathy, Hassan, "Constancy, Transportation and Change in the Arab City" in From Madina to Metropolis, Heritage and Changes in the Near Eatern City. Edited by Carl Brown, The Darwin Press, Princeton, New Jersey, 1973. pp 329
- Abu-Lughod, J. "Problems and Policy Implication of Middle Eastern Urbanization" in <u>Studies on Development Problems in Selected Countries in the Middle East</u>, 1972 (UN, New York, 1973). pp 52
- Fathy, Hassan. <u>The Arab House in the Urban Setting</u>, The fourth Carreras Arab Lecture of the University of Essex 3 November 1970, Longman for the University of Essex. pp 13
- Bokhari, Abdulla, Y. "Conservation in the Historic District of Jeddah in <u>Designing in Islamic Cultures 3, Adaptive Reuse</u>. Integrating Traditional Areas into the Modern Urban fabric. The Aga Kan program for Islamic Architecture, at Harvard University and M.I.T., Cambridge, Massachusetts, 1982. pp 61
- Al-Hathloul, Saleh Ali. <u>Tradition, Continuity, and Change in the Physical Environment: The Arab-Muslim City</u>. Ph.D. Dissertation, M.I.T., 1981. pp 248-50, 258

- 8 Al-Hathloul. pp 263
- Bianca, Stefano. Designing Compatibility between New Projects and the Local Urban Tradition, <u>Designing in Islamic Cultures (4), Continuity and Change - Design Strategies for 8 Large-Scale Urban Development</u>, the Aga Khan program, Cambridge, Massachusetts, 1984. pp 21-22
- Tekeli, Ilhan. "Urban Patterns in Anatolia:
 Organization and Evolution" in <u>Conservation</u>
 as <u>Cultural Survival</u> The Aga Khan Award for
 Architecture 1980. pp 21
- Dvakakis-Smith, D.W. "Socio-Economic Problems The Role of the Informal sector" in Changing
 Middle Eastern City edited by G.H. Blake,
 and R.I. Lawless, London:Groom Helm, 1980.
 pp 102
- Bianco, Stefano. "Fez: Toward the Rehabilitation of a Great City" in <u>Conservation as Cultural Survival</u> The Aga Khan Award for Architecture 1980. pp 29
- Roberts, M. Hugh P., <u>An Urban Profile of the Middle East</u>, London: St. MArtin, 1979. pp
- 14 same as 5 pp.11
- 15 Abdulac Samir. Conservation Problems in the Middle East and North Africa in <u>Designing in Islamic Cultures (3)</u>, <u>Adaptive Reuse Integrating Traditional Areas into the Modern Urban Fabric</u>, Aga Khan program for Islamic Architecture, Cambridge, Massachusetts, 1983. pp 17,18, 20
- Lawless, R.I., "The Future of the Historic Centers: Conservation or Redevelopment" in The Changing Middle Eastern City Edited by G.H. Blake and R.I. Lawless. London: Croom Helm, 1980. pp 181

CHAPTER 5

Recommendations & General Guidelines for Developing & Preserving the old city of Nablus



General Urban Design and Preservation Guidelines

Now that some of the urban design and planning issues of the historic quarters of the old city of Nablus have been discussed, it is clear that the old city of Nablus needs a systematic program of preservation to maintain its buildings and to protect its historic quarters.

The following urban design and preservation guidelines are recommended as the basis for any kind of preservation and development in the historic quarters of the old city of Nablus.

General Goals: *1

- 1 To preserve, protect and enhance cultural resources for the benefit of the city and for future generation.
- 2 To encourage appreciation of cultural resources through preservation activities, education, and public awareness programs, in order to strengthen the sense of community and identity of place.
- 3 To create mechanisms for managing and maintaining the built environment, and to coordinate these mechanisms with existing programs and procedures at the city and

the national levels.

- 4 To establish an integrated system for developing, promulgating and evaluating preservation standards involving public and private interest groups at all levels.
- 5 To assure that preservation considerations are integrated into the continuing planning process.
- 6 To identify ways and means of translating the above goals into constructive and economically realistic projects and programs.

NABLUS PRESERVATION COMMISSION:

It is strongly recommended that the city of Nablus formulate and adopt an ordinance which will establish a preservation commission - Nablus Preservation Commission - to develop and administer support programs for the preservation of cultural resources.

"The ordinance is central to the implementation of a program for preservation... Decisions will frequently require detailed documentation and in depth analysis of individual resources beyond the more general scope of the inventory. Value judgements must be made which involve the relative practicality of protecting or enhancing particular resources. New programs for cultural resources will require and benefit from the input of skilled professionals and community leaders. In particular, the coordination of identified resources and values with the on-going programs, city departments, other governmental agencies, and

private local interests is necessary. The preservation commission is constructed to respond to all of these needs"²

The preservation commission shall include archaeologists, local historians, architects, architectural historians, urban planners, and engineers. Other members shall represent business, developers and private preservation groups. All members should possess a demonstrated interest in the preservation of the city's cultural and historic resources.

It is recommended that the Commission have nine members, and three of them shall be elected every year. Three member shall be urban planner, an architect or architectural historian and the third shall be either an archaeologist or engineer. Three members shall be historians, and the other three shall be general people.

The Role of the Preservation Commission

The general role of the Commission is to develop and promote preservation activities within the Old City of Nablus. There are several specific concerns which the Commission should be prepared to address:

1 - The Commission shall concern itself with all aspects of

preservation of all historic buildings in order to protect the rapidly vanishing historic environment that gives distinction, variety and definition to the surviving historic quarters.

- 2 The policy of the Commission shall be to preserve and protect the city's historical and aesthetic resources and their environment.
- 3* The Commission shall review the inventory of cultural and historic resources included in any project and commence to adopt an official cultural and historical resource list.
- 4 The Commission shall establish a system for maintaining the inventory files with provisions for adding research data, making changes in status, and adding resources deemed to be significant. Such files should be accessible to the general public for easy reference. To be effective as a planning tool, the archives must be updated continually.
- 5 A detailed archaeological survey of the Old City of Nablus shall be completed. The Commission shall assist in obtaining funding for this cataloging activity.
- 6 The Commission will be responsible for formulating a precise plan for the historic preservation element in the general plan for Nablus.
- 7 The Commission shall be intrinsic to the City's role in preparing or reviewing environmental impact statements

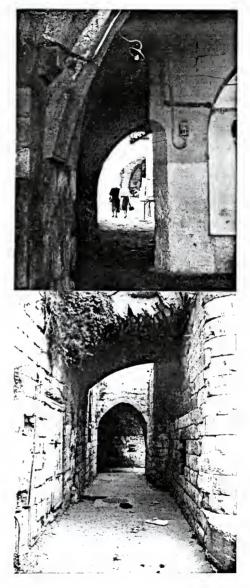
which are required when national projects affect cultural and historical resources. This may mean providing assistance to formulate a statement when it is the city's responsibility to do so, or commenting on statements developed by other agencies.

- 8 The Commission shall assist in refining the urban impact statement procedure outlined in the general plan in order to incorporate and integrate cultural and historical resources.
- 9 The Commission shall promote community preservation by acting as an information source for other city departments, boards, and agencies in matters concerning the historic quarters, and by generating new ideas and support concepts for programs which will enable the historic quarters to remain viable elements in the city.
- The Commission shall promote and endorse educational and cultural activities in schools and throughout the city which will assist citizens to recognize, understand and appreciate their environment. This role will require significant coordination with educational institutions, universities, public interest groups, clubs, and, in particular, with private preservation groups.
- 11 The Commission administer system shall promote communi-

ty preservation by:

- * approval of proposed actions
- * conduct public hearings
- * make recommendations
- * support.





The effect of light and dark in the historic quarters

Comprehensive Survey and Evaluation:

a.Survey

The ordinance shall require the Preservation Commission to carry out as soon as possible a comprehensive survey and evaluation of natural features, structures of historical or architectural significance. Based on such an inventory, specific sites and buildings may be designated for protection.

survey or comprehensive inventory evaluation", lists all structures of historical, architectural or cultural importance in a community or historic district. Preferably it elements which enhance the environment surroundings structures, too.... For each eligible structure or element, detailed information is collected systematic records established. included descriptive materials, photographs, and, possible, measured drawings or plans. information collected must be sufficient to allow the Preservation Commission and city council to determine the significance of a particular structure and to judge the merit of designating it for protection. This information also assists the Commission in reviewing proposals to alter protected buildings and spaces."4

As Ziegler, Alder and Kidney note in <u>Revolving Funds</u> for <u>Historic Preservation</u>, this is "the inventory type of survey that evaluates all the properties of a city or neighborhood to determine which are of no interest, which must be

saved, and which it is more or less desirable to save. With such a survey, the preservationist establishes his goals objectively, while his findings in a published form lend authority to his pleas for preservation"

Marsha Gelenn suggests that a given structure or site can be studied and recorded through:

- "-measured drawings
- photographs
- photogrammetry
- historic research to discover the history of the element being studied, the architects, the dwellers, their times, lives, and possessions.
- architectural research to study the existing structure and materials to determines the original structure and subsequent changes, present condition, type of materials, dates, and to record all findings and place in architectural history.
- archaeological research to discover the historic and architectural details not obtainable from documents or architectural research, i.e., foundations, outbuildings, probable uses and verification existing information.
- planning research to study the element in

relation to the site, the environment and the community. 16

In a recent research - A New Documentation Methodology : <u>Videographic Architectural Analysis</u> - C. Barrett Kennedy, Dennis B. Jones, Robert P. Schubert, Michael G. Yamarik, developed a new method for documenting architectural resources by using contemporary videographic and computer processing technology to enhance traditional recording procedure. Techniques for the architectural analysis of video images have been developed by merging computer hardware and software systems with principles of photographic and photogrammetric interpretation. By applying these technologies to the survey process, a multifaceted document can be created that comprehensively describes the built The survey process is facilitated by the environment. ability to extract dimensionable images of buildings from video recording without resorting to costly and time consuming hand-measuring techniques.

"The key component of the documentation system in VCAD, the Videographic Computer Assisted Designer software package developed by Videocad, Inc., as an interactive videographic data base manager. ...it serves the user as four fundamental data management tools:

- 1 an audio-visual archival document that
 combines dimensionable video images,
 environmental sounds, and verbal commentary.
- 2 an analytical device for extracting quantifiable data from the multifaceted context of the built environment.
- 3 an interactive simulation program that depicts historical change, demonstrating the contextual evolution of a site and visually promoting an understanding of the essential character and integrity of cultural resources.
- 4 a planning device that prescribes appropriate material treatments, maintenance routines, development schemes, or monitoring activities." 7 (see Appendix 8)

b. Study of the Socio-economic Context

"In order to gain some idea about the purpose which historic buildings and sites could fulfill in the future, an in depth socio-economic study needs to be carried out. The aim of such study, embracing the disciplines of city and physical planning, should be to assess the viability of the area surrounding the buildings or sites which are deemed worthy of preservation. An indication could be given in the

form of an analysis of strengths and weaknesses of the purposes for which each individual historic feature would be suited."³² (see Appendix 9)

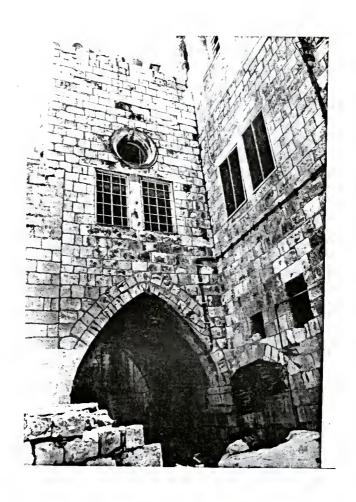
c.Evaluation

Having listed all structures and sites the next recommended step is to evaluate their relative significance for community preservation. Structures may then be grouped according to preservation priorities. This information may be recorded on a map indicating the location and concentration of significant structures and sites where future developments may take place without destroying the historic integrity of the district. Such information may also be compiled in a ready reference form.

The criteria for the evaluation of each structure or feature shall be determined as follows (see Appendix 10):

1. ARCHITECTURAL SIGNIFICANCE

- Exceptional
- b. Excellent
- c. Good
- d. Fair
- e. Poor



A building in the old city of Nablus, 1987

2. ENVIRONMENTAL SIGNIFICANCE

- a. Exceptional
- b. Major
- c. Contributing
- d. Non-contributing

3. <u>ALTERATION OF ORIGINAL DESIGN</u>

- a. None or Little
- b. Moderate
- c. Considerable

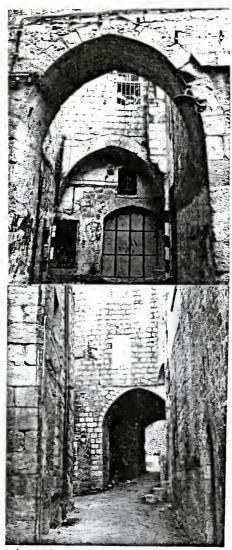
4. <u>HISTORICAL/CULTURAL SIGNIFICANCE</u>

- a. Exceptional
- b. Major
- c. Moderate
- d. Minor

The evaluation of individual structures might be categorized as follows:

"Exceptional: Resources which are of National, State, and Local significance.

Excellent: Resources that add unique forms and texture to the environment or are part of the historical consciousness of the community, and are of particular local significance.



Two views from the historic quarters, 1987

Good: Resources which are individually significant. Consideration should be given on a case by case basis to their local significance and protective status.

A large number of resources fall into a fourth category:

<u>Background Buildings</u>: resources which individually are not significant but in clusters, or in relationship to more significant features, become so. Such resources help define general community or neighborhood identity.

The purpose of identifying such resources is primarily on a local level for planning purposes. These resources should be considered as supportive, positive elements to the urban fabric surrounding them. Loss of all or many such resources can destroy a neighborhood or leave the city with a handfull of monuments rather than a full community identity inherited from its past."

NON-DESTRUCTIVE EVALUATION

There are several general classes of deterioration problems. These include defective building materials, loss of protective surface layers, accelerated weathering due to

air pollution, attack by soluble salts, and interactions between materials, especially the corrosion and expansion of iron reinforcements.

A variety of methods have been used to study deterioration. These fall into two classes: visual inspection on site and instrument analysis in the laboratory on samples taken from the building. 10 Neither of these two classes is the complete answer.

What is needed are non-destructive methods that can be applied in the field and that provide information about building condition, both at the surface and at depth within walls or other parts of the structure.

There have been several reviews of the possible non-destructive methods that could be applied to building diagnostics. Research has been done recently by Richard A. Livingston, University of Maryland, and Roberto Franssetto of the National Research Council, Italy on Nondestructive Diagnosis of Building Condition. He maintains that there is no one method that does everything, and that the most appropriate methods include:

"A. Infra-red Thermography - The infra-red radiation given

off by a building is recorded by a device like a television camera. The resulting image shows warm and dark parts of the walls. These areas can be related to such things as variations in building materials composition or the presence of moisture. However this technique cannot effectively penetrate below the surface.

- B. X-Ray Flouresence This is also a technique limited to the surface. It beams x-ray from a portable source on the surface and measures the energy of the emitted x-rays. This gives information on building materials, paint pigments, and contaminants like salt.
- C. Neutron Probe Unlike the previous two methods, this one uses a portable neutron source to measure the distribution of elements within a wall. It can identify materials composition, the presence of contaminants such as salt or moisture, and the occurence of voids or reinforcements within the structure.
- D. Radar Portable radar sets can be used to identify metal structural elements or moisture within walls.
- E. <u>Magnetic Surveys</u> Proton magnitometers are portable instruments that are very sensitive to changes in

magnetic fields and thus can be used to detect iron reinforcements.

- F. Neutron Radiography Neutrons from a portable source could be used to make images of the interiors of the structures in a process like taking x-ray images. The advantage of neutrons over other types of radiation like gamma or x-rays is that they are much more sensitive to variation within building materials.
- G. Acoustic Emission The infinitesimal movements of building materials as a result of wind loads or thermal expansion and contraction will emit sound at points of stress or micro-cracking. These acoustic emission can be picked up by arrows of microphones and used to locate areas of structural problems within walls.
- H. <u>Piezoelectric Hammer</u> A specially instrumented hammer is used to generate sound pulses at point on the structure. The pulse is then picked up by microphones at other points on the structure. The changes in the waves form of pulse between the hammer and the pick can be used to identify structural problems.
- Pneumatic Gauge The roughness of a surface can be

determined non-destructively by measuring the resistance to air flow across the surface. The increase in surface roughness over time is an indication of material weathering.

J. Acetate <u>Peels</u> - A very simple way to measure surface roughness and cohesion of building material surfaces is to take an impression of the surface using a sheet of plastic acetate. The roughness of this surface replica can then be measured in the laboratory, "11

PRESERVATION PLAN

The preservation plan is a basic document summarizing the results of the comprehensive inventory and evaluation, stating the goals of the preservation program, and identifying strategies for accomplishing these goals. The plan allows communities to integrate preservation of historic resources with processes of growth and change, by indicating how and where new development can take place without sacrificing the area's historic character.

The plan should be completed as quickly as is feasible without neglecting thoroughness and careful consideration of alternative courses of action with regard to program elements

and recommendations. Though it is the preservation commission's duty to see that the plan is made, it is best prepared by professionals in consultation with the commission.

"Most plans include such elements as these:

- History of the growth and development of the area under consideration.
- (2) Analysis of the architectural styles represented in the area.
- (3) An area description, including population, land use, and data on building conditions.
- (4) Survey of all significant structures and environmental features, along with a statement of the criteria for inclusion.
- (5) Report.
- (6) Map of the resources surveyed.
- (7) Statement of historic preservation philosophy and goals.
- (8) Designation criteria, to be used in selecting sites and districts to be provided.
- (9) Recommendations for sites and districts to be designated for protection.
- (10) Criteria to govern the Commission in determining if proposed alterations to protected landmarks are appropriate.
- (11) Recommendations for other legal controls needed,

- such as a sign ordinance or easement program.
- (12) Proposals for revision of any existing community, county, regional or other masterplan, program, zoning ordinance, landmarks.
- (13) Program proposal stating roles of various private organizations and public agencies in preserving historic landmarks.
- (14) Planning recommendations for improving land use patterns, parking and traffic circulation, and other systems.
- (15) Estimates of costs of rehabilitation and recommendations for financing mechanisms for carrying out historic preservation objectives." 12

The preservation plan, once completed, should be revised regularly to include new information and adapt to changing circumstances.

COMPREHENSIVE PLAN:

Comprehensiveness means that all aspects of a city must be studied and carefully considered. It means the proper, wise and studied relationship of different issues. Comprehensiveness means application of balance and unity, of priority programming and flexibility. The community's various collective goals can somehow be measured at least roughly as to the importance and welded into a single hierarchy of community objectives for future evolution of all important economic and social patterns.

For a comprehensive plan, all the environmental assets and liabilities, both physical and social, should be surveyed, analyzed and evaluated. In addition to that, local processes for planning and designing environmental preservation, change and management, shall make use of the existing professional, scientific, cultural and technical personnel by organizing a new and more productive relationship.

If the planners are truly to think comprehensively, they must consider not only the goals of society, but also the framework within which these goals can be pursued. The important functions of any comprehensive plan are:

- "(1) To evaluate proposals in the light of the master plan.
- (2) To coordinate all the proposals to reinforce each other to further the public interests.

Each of these functions requires ideal performance for the comprehensive planners:

- (a) understand the overall public interests, at least in connection with the subject matter of their plans.
- (b) they possess casual knowledge which enables them to gauge the approximate net effect of proposed actions on the public interests."¹³

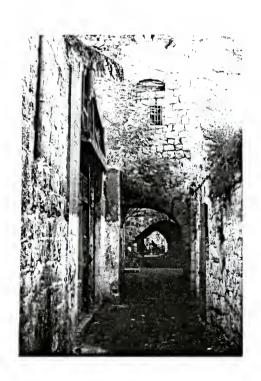
Certainly all the problems cannot be solved easily, the important thing is that all improvements in the historic quarters add up to a comprehensive whole with meaning. Once a comprehensive plan is evolved, it is necessary to work out a schedule of priorities.

The four principles of Ekistics give good clues to a comprehensive whole, these are as follows:

- "1 Unity of purpose. In order for our environments to be successful, they have to satisfy us economically, socially, politically, technically, culturally, and aesthetically.
- 2 Hierarchy of functions. We shall achieve the best type of organization through a hierarchical distribution of functions and their expression.
- Respect for four dimensions. We need to develop programs that will include the fourth dimension of time (change and growth) and that will respect it as much as the other dimensions and sometimes even more.
- Different scale for different masters. Man should remain the main master of the city. Instead of permitting machines to become masters that control the whole city, as the car does at present, we must make machines the masters only within their appropriate spheres: the car on the highway, the plane in the air, the rocket in space. All have to be incorporated in a rational way into the overall plan of Ecumenopolis."14

Essentially, the basic aim of planning is to produce a functional, pleasant and beautiful environment for human habitation. If any opportunity is given to the old historic

quarters of Nablus to remedy the situation, it should deal comprehensively with growth, rehabilitation and redevelopment.



CITIZEN PARTICIPATION

Ideally the process of democratic decision-making shall take into account the views of all those who have a legislative interest in the matter at issue. Of course, few issues are "strategic", and these tend to capture the attention of existing interest groups who feel threatened.

Members of the public involved in planning need to feel that they are participating in something that is likely to have tangible results. Public participation must be an integral part of the planning procedure being adopted in Nablus.

"Absolute necessities of a Moslem community must be determined through anthropological and sociological considerations and by open meetings or consultation. It is essential that people of all social and ethnic groups be consulted equally, and, in accordance with the Quran."

In order to make design reviews more constructive, "architects should learn to listen to professionals from other fields and to the public. Many persons are sensitive to their environment although they cannot discuss projects in architectural jargon. The person who says, "I know what I like" should not be discounted. Nonarchitects are often astute observers who are sensitive to the scale of the urban

environment perhaps more so then architects who tend to look only at the problem of the architectural statement and seldom at urban context." look

"The design process and criteria should not be cloaked in mystery for this will only drive away the public or create misunderstandings. Public opposition will prevent preservationists from getting to first base while blind acceptance will last only for the short term. The only satisfactory solution is public knowledge and acceptance." 17

The public shall be entitled to be "informed" of planning proposals and must be given an opportunity to make representations on such matters.

Community participation shall be encouraged in the preservation planning process, in order to achieve public understanding and support of preservation concepts and the value of cultural resources to the community.

INTEGRATION OF OLD AND NEW ARCHITECTURE AND PLANNING

The design of new buildings in the old quarters is among the most controversial issues of urban design and historic preservation. Efforts shall be made to achieve harmony between the old and the new structures as well as historic compatibility.

The designer must not be heedless to the responsibility to the past and not compromise it. Texture, materials, scale, and other considerations for harmonizing with the old must not be ignored to the detriment of both the old and the new. There is no excuse for indifference to historic values.

The contemporary architect or planner shall saturate himself with the personality of an area and became truly involved with the architectural qualities which make the area worth preserving. These qualities would involve the component parts of the street scene, the appearance of the historic area from every vantage point, inside as well as outside the area. This requires moving from place to place in order to understand its structural form, its topography, and its skyline.

Within the historic quarters of Nablus, the new structures to be considered should embody architectural elements which are sympathetic to the street scene and to the immediately surrounding buildings. In doing that, building scale, height, surface materials, textures, color and apertures must be considered in detail.

In a meeting in 1967 in Braunschweig the city's stand-

ing committee on Historic Urban Affairs passed the following resolution:

"Wherever old structures are visible elements in the present city picture - particularly where buildings and groups are of architectural merit or lend historic significance to the structure of the city and present the unique, individual image - efforts should be made to preserve the structural inheritance and to adapt it meaningfully to the needs of our time.

"To this end, one should, above all, preserve the old scale and proportion in height, width, and structural detail in new buildings and alterations in historically significant districts.

"To the same end, new additions that disrupt the old city pattern should be avoided as far as possible. Original street and building lines should not be changed. The narrow streets of the old quarters can often contribute as pedestrian malls to a meaningful traffic system. Public and private parking spaces and parking garages should be installed outside the historic areas to the greatest extent possible. Much effort should be done to gain the spirit of the era which such structures and buildings were erected to serve specific functions." 18

Good new architectural design and planning can feasibly be harmonized with existing structures without damaging the historical values or disrupt their soul. Integrity of old and new elements can be done through sensitive considerations and a great deal of professional knowledge.

TRAFFIC

Transportation is a vital fact of any dynamic city and it plays an important role in its political, economic, and physical fabric. Obviously the problem of traffic and parking has been generated by the motor vehicle, and is rendered extremely complex by their consistently growing num ber.vehicles.

Motor traffic was unknown until the beginning of the twentieth century, and even horse driven wheeled traffic did not enter the historic city of Nablus until then. Street patterns of the historic city of Nablus obviously were designed for pedestrians and not for modern traffic. Any adaption to its requirements means far-reaching alterations in the road pattern and consequently in the whole character and fabric of the old city. Cutting through of a single thoroughfare, or substantial widening of two or three of its main streets, and opening of its interior to traffic has already destroyed its specific character and visual coherence.

Eliezer Brutzkuz, looks to the problem of traffic improvements in the old city more seriously when he says:



Car traffic is a major problem in the old city.

"even minor improvements in traffic conditions in traffic accessibility like partial widening roads, multiplying of access possibilities or providing of parking facilities within the old quarters, have similar effects on a similar scale and at a somewhat slower pace than the major ones. They initiate a process of transformation deterioration of the typical environment of the old city. Under present conditions of a high level of motor ownership, the number of private cars which are willing to enter the old city, even for tourist and sightseeing purposes only, is enormous. quently, any partial action for improvement of traffic conditions would be a palliative, requiring shortly after its execution additional actions, the combined effect of which would be similar to that of major interventions and complete disintegration of specific environment would be in most cases the final results." 19

In order to decrease the physical and visual confusion produced by motor vehicles, there are several recommendations to deal with the problems of traffic in the historic quarters:

- (1) There should be restrictions on vehicualr traffic inside the bazaars and the narrow alleys of the old city, in order to stop breaking the continuity and scale of the closely knit, pedestrian-scale quarters along with creating an atmosphere for people to feel secure from automobile dangers.
- (2) The best conditions for the preservation of a

historical area prevail when the old city can be completely separated from the modern one by a belt of open land. This condition is difficult to achieve. One proposal is to surround the old quarters with a ring road from which cul-de-sac streets could penetrate inwards. This would allow easy access for ambulances and fire-engines, beside other emergency vehicles.²⁰

- (3) The historic quarters should be considered as a compact entity accessible only to pedestrians. Exception will be granted to deliveries to be made to shops, ambulance, fire-engines, waste-removal, and emergency vehicles.
- (4) Only vehicles under a certain size shall be allowed into the old city and only during restricted hours, the streets would be kept free of vehicles during the hours of maximum pedestrian use.

James Fitch sees that historic areas can be enjoyed only on foot, and he suggests that:

[&]quot;a policy of permitting no wheeled traffic in such areas (except for fire, ambulance, waste removal, and so on) is the correct one. Though merchants in such areas are offen initially skeptical of the impact of such measures on retail trade, they have

proved to be successful in certain cities (Piazza Navona in Rome, the New Precinct in Coventry). ..., parking facilities should be provided around the peripheral - preferably underground and in small, dispersed units to avoid peak-hour traffic jams."²¹

(5) Open car parks can be acceptable, at the edge and in the backlands of the historic quarters, provided paths defined with them and they are broken up into small units with local trees.²²

The issue of parking places and seclusion of the historic quarters from motor traffic are discussed by Eliezer Brutzkus, where he suggests:

"seclusion of preservation areas from motor traffic makes only the quick superficial visit of a touring visitor more difficult. A certain walking distance through the old quarter from a parking ground outside of the preservation area only adds to the depth and intensitivity of the tourist's impression, and incidentally his somewhat prolonged stay in the town, to the income which the community derives from his visit. Income balance of a city assessing losses resulting from reduction of number of tourists in consequence of increased distance between road and amenities versus gains obtained due to a more prolonged stay in the city of smaller number of tourists seems to be in most cases positive when the second alternative is chosen. At any rate, only this way, the "lode" of tourist trade may be conserved in the long range."²³

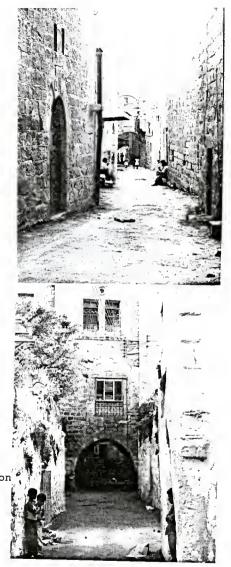
PEDESTRIAN ZONES

It is tragic to observe that at a time when western countries are introducing pedestrian zones, especially in their historic districts, the old city of Nablus with its incomparably rich and pedestrian-oriented fabric, is subject to congestion and dissection by automobile routes.

Excclusively pedestrian movement in the old city would again provide easy access to the shops, public baths, mosques and schools. The value of pedestrian streets that are entirely separate from vehicular traffic needs to be rediscovered for its intrinsic values as well as for the survival of the qualities of the historic district.

As a conservation measure, traffic-free zones in the historic quarters should be introduced to restore the unity and homogeneity of the historic urban fabric. The historic quarters of the old city of Nablus should experience a revival in pedestrian modes in order to affect not only their appearance, but their functions and relations to the historical monuments and other physical settings.

"the rapid acceptance of traffic-free zoning is based, primarily, on its capacity to achieve four major goals in the process of urban revitalization: reducing traffic congestion, halting environmental



The historic quarters were car traffic free before the introduction of cars

deterioration, improving retail conditions, and strengthening the role of the core as a focus for community activities." 24

The social needs of pedestrians are also of great importance. These needs shall be emphasized in schools, bazaars, mosques, and other social institutions. In the populated historic centers, there is always a chance of conflict between people and cars. Pedestrian districts allow the interaction of people without the pressure of automobile traffic, and the danger of traffic accidents.

It is sad to see that "Sahet el-Manaral" - the Minaret Square - which is still the focal point of the old city is changed into an outdoor garage. This magnificent square which for generations was the main open space in the old city, has been changed almost completely to fit traffic needs. These physical changes have ruined the imagability and homogeneity of "Saheh el-Manarah".

It will be wise to change the design of "Sahet el-Manarah" - the Minaret Square - to what it was and pedestrianize the existing streets not only for beautification but:

- to eliminate conflict between pedestrians and cars
- to gain unity between the architectural elements

of the square

to create social interaction for people who are walking and appreciating historic building values and cultural heritage. Walking from one historic building to another may be considered recreation and more importantly, an educational experience.

"Driving is not only fast but it also demands concentration, leaving no time or channel capacity to appreciate the environment. Thus pedestrians have a much better awareness of places and clear ideas of the significance, measuring and activities in the city than either drivers or users of public transport. Because of the lower speed adn lower criticality of their movement, pedestrians can perceive many more differences in form and activity."

RETAILING

Business in the old historic quarters of Nablus is scattered. These quarters are really a commercial area. The old city has never lost its function as principal center for the whole city - even people living in the new city often go there to shop. Modern articles are indeed to be found there, and at cheaper prices. Merchants and bazaar owners often violate the traditional order of sugs by occupying the most prestigious and frequented spots in the center, turning the old houses there into storerooms or workshops. Old bazaars

are a solid string of shops where most of the heads of house-holds run a shop of some sort or another. These shop quarters are romantic, packed with "atmosphere" and mystery. Shop-keeping is a noble enterprise, without which Nablus would never have risen to the heights of craftsmanship fame as well as economic welfare.

Today, the idea of creating supermarkets in the old city of Nablus is growing which would inevitably affect the tradition of free enterprise. Socioeconomic elements of planning should be considered to make retailing effective. Revitalization of local retailing facilities is only required inside the bazaars. Private enterprises must be encouraged to provide long term job opportunities throughout the historic district for low-income segments of the population in order to stop social decay and slum generation.

The progressive mechanization of branches of production and the need for more space generated by manufacturing workshops should not be ignored. Because they are incompatible with traditional morphology, however, their transfer out of the historical quarters is necessary.

"The most important fact about commercial functions is - in the architect's eye - that they give the essential link between a township and its people. A visitor, and a resident too, communicates with the town through its commercial facilities. If you

are a visitor, you won't always be able to enjoy other people's homes, the offices won't serve your needs. But you will always enjoy its commercial facilities, through them you can gain access to the city's products its specialities — food, ..., crafts — and its people's minds too."26

Shopping by tourists also plays an important role in these quarters where local handicrafts and folk arts, are offered by retailers. These activities can have a genuine place in the lifestyles of an area. Not only tourists, but the town's own residents need to be attracted to the center. The way to do this is to have small specialists' shops that sell things not available in a supermarket. Actually these kind of places attract tourists too, and motivate them to buy. Gimmicky souvenir shops, should be carefully avoided.

In order to revive a city, and its historic center, Szalay, suggests that decision-makers should avoid these common mistakes:

"Avoid commercializing the area, overloading it with too many single-sided commercial functions thus turning it (e.g.) into a singular tourist attraction. In this case hoards of tourists will be pouring out of their coaches day-by-day,/but mostly in high season/eating up and buying up everything, while town residents will hide away in the comparative silence of their homes. Out of season the same shops will be closing down, because the merchandise they sell is only bought by tourists, and the city will be sleeping until the next season.

"Under commercializing an area is committed by decision makers when they use too few commercial elements - this is generally due to a strong preference towards some other special field - many time this being too many cultural features. Too many museums or archaeological sights, could be disastrous in a town center, where visitors, after seeing one or two of the sights, will want to sit down and eat or have an ice-cream and relax." 26

Another important factor to be considered in establishing a sequence of functions in our historic center, is time.

"people using the city must be given time to enjoy the atmosphere, whether sightseeing or shopping they should be able to sit back in a setting that is part of the town's traditional values to recover sipping on their drinks or eating a good meal. Let's give them a chance to wonder about finding their way to the sights themselves, mix tourists with the residents in the center, and do not hurry them with an arrow showing them the way to the one and only ancient ruin to see."²⁶

NEW USES

It is obvious that a historic quarter is not a suitable site for big business, banks, offices, and supermarkets, large fashionable shops, or big cinemas and other enterprises of mass entertainment. New uses of this kind, especially those requiring large-scale facilities such as secondary schools and hospitals which cannot be integrated easily into the fabric of the old city, should be forbidden within the

historic quarters by zoning regulations, and they should be placed either on the periphery or completely outside the historic quarters. Even administrative functions, as far as they are connected with substantial circulation of the public, should be located elsewhere.

This obligation to locate modern functions outside the preservation area does not condemn it to become dead, since their relationship to the daily life of the historic quarters is only partial, and there is a sufficient range of uses which can be retained within the historic quarters.

ADAPTIVE USE

Adaptive use: is often the oly economic way in which old buildings can be saved, by adapting them to the requirements of new tenants. This can sometimes involve fairly radical interventions, especially in the external organization of space.²⁷

The goal is not to convert the old city of Nablus into a museum. It is recommended that historic structures be used as much as possible for their original purposes, but when this ceases to be feasible, new uses must be found. The city preservation program must encourage adaptive use while

protecting the public's interest in maintaining the traditional character of the site and its surroundings.

Reuse of historic buildings is accepted as a normal, attractive, way to provide space and save historic buildings and areas. This is true for many reasons such as:

- "1. old buildings are usually energy-saving in operation, while the materials in them already represent the use of much energy in their manufacture and delivery.
- Inflation has now made the use of old buildings economically advantageous.
- The reuse of old buildings helps to revitalize decayed downtown areas.
- Adaptation of old buildings is labor-intensive and creates jobs rather then waste of resources.
- 5. Adapted buildings tend to offer special amenities, have good quality, and handmade features, while the average new construction tends to avoid handmade details and uses the cheapest materials.
- 6. Old buildings adapted to modern conditions are frequently in areas already supplied with utilities and will not require new utility installation."²⁸

The selection of a new use for a building must be made with care and attention. It is the most important decision to be made if preservation is going to be an expression of cultural maturity.

"In delineating the visual effects of adaptive use, different facets of a structure are examined. The building as a whole is evaluated: the exterior, the interior, the appearance of the structure from the street booth by day and by night. This evaluation leads to decisions on those visual architectural features to be preserved, enhanced or altered: the material, massing, fenestration, lighting, ornamentation, orientation to site and interior layout.

"Once an appropriate use has been selected, the building itself is examined in depth to identify its unique characteristics.

"In designing an adaptive use project, one is continually interpreting existing architecture and responding to it. The success of the design process depends first on adequately interpreting the old structure and its content. The economic, social and visual history of a place should be well understood before a response is formulated. Each detail that has an impact on the project then should be considered." 29

EARTHQUAKES

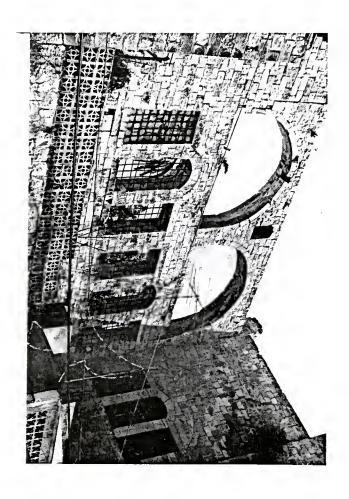
Earthquakes are frequent in the Holy Land. There were earthquakes in AD 551, AD 748, AD 808, AD 1202, AD 1837. There was one in 1903 and one on July 11, 1927 whose shock waves were felt in Syria. Nablus, Lyda and Es-salt were damaged. 30

"Earthquakes are different in degree from most other disasters in their capacity to kill almost instantaneously due to lack of warning and in their extensive damage to cultural property often augented by fire, looting and water damage.

"Administrators, by taking steps for disaster prepareness can reduce the damage that occurs in an earthquake and this means saving lives."²¹

A policy of upgrading building combined with their regular maintenance is strongly recommended.

A brief summary of the administrative actions before, during and after a seismic disaster to be used as a check list, is suggested by Sir Bernard Feilden (see Appendix 11). He suggested that this summary should be applied to the local situation working within the administrative methods, planning procedures, patterns of ownership and cultural attitudes of each country. 31



A building in the old city as left after the earthquake of 1927

STONE

In the old city of Nablus, the basic construction material is local limestone, built into masonry wall with a mortar of lime, sand and earth.

To retain the exterior surface of the stone that throughout the centuries has acquired a beautiful and irreplaceable patina, is strongly recommended. The patina is sometimes produced by the alteration of the stone. Unfortunately, layers of dirt, soot, and gas fumes lie on the original facades and gnaw into the stone. In such cases, cleaning becomes imperative, but on conditions, of course, that the methods employed do not attack the surface or the delicately sculptured elements.

Cleaning methods generally are divided into three major groups: water, chemical, and mechanical (abrasive). Water methods soften the dirt and rinse the deposits from the surface. Chemical cleaners react with dirt and/or masonry to hasten the removal process; the deposits, reaction products and excess chemicals then are rinsed away with water. Mechanical methods include grit blasting (usually sand blasting), grinders, and sanding discs, which remove the dirt by abrassion and usually are followed by a water rinse. 33

The surface cleaning of structure shall be undertaken with the gentlest means possible. The simplest and least dangerous methods shall be used. A low pressure water is effective, safe, and least expensive. Sometimes gentle brushing maybe necessary. Water of slightly higher pressure or with a mild non-ionic detergent additive may be neede. When chemicals are used, complete rinsing is essential, and it is important to make certain that the run-off does not cause any damage. These methods shall be tested prior to considering harsher methods; they are safer for building, safer for the environment, and less expensive.

"The level of cleanliness desired also should be determined prior to selection of a cleaning method. Obviously, the intent of cleaning is to remove most of the dirt. A 'brand new' appearance, however, may be inappropriate for an older building, and may require an overly harsh cleaning method. It may be wise, therefore, to determine a lower level of acceptable cleaning."³³

Sandblasting and other harsh cleaning methods that will damage the historic building materials shall not be undertaken, but under extreme conditions may be unavoidable in which case they require prior permission from the commission.



Local limestone is the basic construction material in the old city

Stone by its nature is one of the most durable of building materials, and in favorable environment it may last hundreds or even thousands of years with little visible change.

Research in stone preservation is rapidly expanding, and what must be remembered is that while stone may no longer be considered as "maintenance-free" material, preservation treatment itself imposes a cycle of inspection and maintenance.

Chemical concsolidation becomes the least evil, a less drastic intervention than replacement, and less drastic ultimately, than no action at all. 34 (see Appendix 12)

GENERAL PRESERVING & DEVELOPING GUIDELINES

Preservation and development in historic areas shall be tackled as a combined effort. Preservation shall involve a full range of interventions, such as restoration, functional rehabilitation, renovation, and replacement or infill, according to strict typologic criteria. The decision regarding the type of intervention to be applied shall come from a plot-by-plot analysis of architectural values and physical

conditions. For new development areas, the constraints need to be as strict, but new buildings shall be correlated to the historic fabric in terms of function, typology, scale, and materials to make them compatible with it. The goal shall be to establish consistency and coherence within the whole urban structure, while allowing for the necessary differentiations between the various components.³⁵

The way a community preservation ordinance protects important structures is to require that all alterations - renovation, demolition and new construction - proposed for such structures be reviewed by the Historic Preservation Commission. It is important that any ordinance designating a historic area as a protected area include guidelines to assist the review board in approving or denying a proposed change, and the owner in explaining how to prepare the plans.

Such guidelines are difficult to draw, but they are crucial. They must be unique for each district in accordance with each historic area's particular qualities.

Ralph Miner, in <u>Conservation of Historic and Cultural</u>
Resources, suggests four premises on which guidelines for review may be based.

- "(1) Guidelines for determining appropriateness must be as objective as possible so as not to favor one particular arrchitectural style over another. A well-designed comtemporary structure should have just as much chance to "past the test" as an old structure.
- (2) The existing structures in any historic district have certain basic visual elements and relationships in common which can be considered as the unique "design vocabulary" of that district.
- (3) This essential design vocabulary can be identified for any district and can be abstracted and documented as basis for judging the appropriateness of new construction proposals without reference to architectural style.
- (4) The question of whether a new proposal will be compatible can be viewed in terms of a fit or misfit with the basic design vocabulary of the district. A proposal incorporating the same essential vocabulary, regardless of style, will fit and should be judged appropriate. On the other hand, a proposal reflecting a different design vocabulary (even if it offers some stylistic similarities to other structures in the district) would be considered a misfit which would not be appropriate within the district."³⁶

The following considerations and guidelines are recommended for the development and preservation of the historic quarters of the old city of Nablus.

In a report on principles and guidelines for Historic Preservation, the National Trust for Historic Preservation suggests a set of restoration principles which may be summarized as follows:

- "(1) The restoration of historic buildings requires the professional knowlegde and special skill of architectural historians, architects, historians, archeologists, landscape architects, museulogists, and experienced craftsmen.
- (2) No final decision should be taken as to a course of action before reasonable efforts have been made to exhaust the archeological and documentary evidence as to the form and successive transformations of the monument. Complete records of such evidence, by drawings, photographs, notes and transcripts should be kept, and originals or copies made available to students in appropriate central libraries and, where possible, also published. In no case should evidence offered by the monument itself be destroyed or covered

up before it has been fully recorded. Sample speciments of physical evidence should also be preserved. All changes proposed should be studied in drawings and specification form to ensure thorough communication between the commissionand contractors.

- (3) Generally speaking, in treating surviving old buildings, it is better to preserve than repair, better to repair than restore, better to restore than reconstruct.' It is also well, before initiating a project, to consider carefully the possibility that once started it may lead to 'creeping restoration' - the tendency for repair to lead to restoration and for restoration to become, by degrees, total reconstruction.
- (4) It is ordinarily better to retain genuine old work of several periods, rather than arbitrarily to 'restore' the whole to a single period. In no case should our own artistic preferences or prejudices lead us to modify, on aesthetic grounds, work of a bygone period representing other tastes. Truth is not only stranger than fiction, but more varied and more interesting. It should be recognized, however, that sometimes it is essential to remove later work in order to obtain evidence of the structure pertaining to an earlier and

more important period. No surviving old work should be removed or rebuilt for structural reasons if any reasonable additional trouble and expense would suffice to preserve it.

(5) Every reasonable additional care and expense are justified to approximate in new work the materials, methods and quality of old construction, but new work should be permanently identified and great discretion should used in simulating ol materials with modern materials. If old material from other buildings are used in a restoration, their source and use should be permanently recorded. The use in an appropriate manner of old materials and details of the period and character is commendable when such materials are otherwise doomed to loss or destruction and their use in itself is an of preservation. In securing materials for restoration work there should be no demolition or removal of buildings where there is a reasonable prospect that they will persist intact or as historic ruins on their own site. Where missing features are to be replaced without sufficient evidence as to their own original form. careful study should be made of other surviving examples of the period and region and precedents found for the replacement.

- (6) The nature of preservation and restoration work is such that it generally involves more time than would be expected in new construction. Many of the most important problems are unsuspected until the fabric is opened up.
- (7) When for educational or preservation purposes it is deemed necessary to move a building to a new setting, its restoration should be guided by sound restoration principles as indicated above.
- (8) Complete reconstruction for educational purposes should also follow the same principles thatgovern restoration.
- (9) When a historic building survives into modern times fortunately in its original use, it is important to retain all its principal features with only minor modification for modern use. When a historic building ceases to be used for its original purpose other uses should be sought in order to perpetuate its life. Only modern uses should be adopted which are consistent with preservation of the building's outstanding values. In such cases, limited compromise with restoration standards may be justified, especially in the interior, to obtain desired conveniences. Since our needs and

capabilities are always growing, important or interesting features that cannot be restored for the moment should be covered over and protected to await future treatment. Only a limited number of exceptional buildings are important enough to be preserved solely for exhibition. These buildings must be cared for and restored with utmost fidelity to the highest restoration standards.

- (10) Prior to the start of work, a complete photographic record of the existing fabric should be made using black and white film for archival purposes.
- (11) Detailed working drawings and specifications should be prepared by an architect.
- (12) All new work should be marked with the date, preferably with a branding iron.
- (13) Particular care shall be taken that access, parking and service buildings are not injurious to the character of the historic building and its environs."³⁷

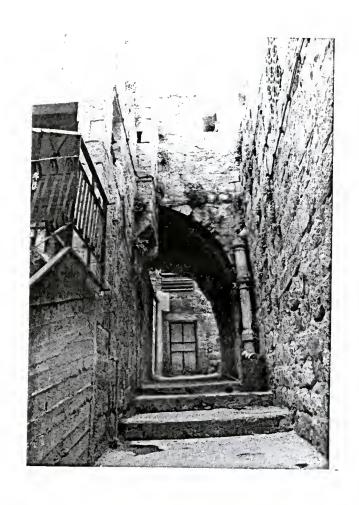
The following standards for rehabilitation, developed

by Technical Preservation Services, U.S. Department of the Interior, apply to the rehabilitation of all historic and other old buildings.

- "(14) Every reasonable effort shall be made to provide a compatible use for a property that requires minimal alteration of the building structure, or site and its environment, or to use a property for its originally intended purpose.
- (15) The distinguishing original qualities or character of a building, structure, or site and its environment shall not be destroyed. The removal or alteration of any historic materials or distinctive architectural feature should be avoided when possible.
- (16) All buildings, structures, and sites shall be recognized as products of their own time. Alterations, which have no historical basis and which seek to create an earlier appearance shall be discouraged.
- (17) Changes which may have taken place in the course of time are evidence of the history and development of a building, structure or site and its environment. These changes may have acquired significance in their own right, and this significance shall be recognized and

respected.

- (18) Distinctive stylistic features or examples of skilled craftsmanship which characterize a building, structure, or site shall be treated with sensitivity.
- (19) Deteriorated architectural features shall be repaired rather than replaced, wherever possible. In the event replacement is necessary, the new material should match the material being replaced in composition, design, color, texture, and other visual qualities. Repair or replacement of missing architectural features should be based on accurate duplications features substantiated by historical, physical, or pictorial evidence rather than on conjuctural designs or the availability of different architectural elements from other buildings or structures.
- (20) Every reasonable effort shall be made to protect and preserve archeological resources affected by, or adjacent to, any acquisition, protection, stabilization, preservation, rehabilitation, restoration, or construction projects.



New materials and additions should be removed from the old city

- (21) Contemporary design for alterations and additions to existing properties shall not be discouraged when such alterations and additions do not destroy significant historical, architectural or cultural material, and such design is compatible with the size, scale, color, material and character of the property, neighborhood or environment.
- (22) Wherever possible, new additions or alterations to structures shall be done in such a manner that if such additions or alterations were to be removed in the future, the essential form and integrity of the structure would be unimpaired."38

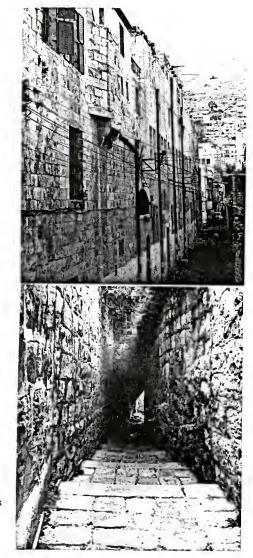
The following guidelines are recommended particularly for developing and preserving the old city of Nablus.

- (23) The historic quarters shall be isolated from vehicular traffic no improvement of traffic conditions within the historic quarters shall be sought, but to the contrary, limitation of possibilities for vehicles to penetrate into the old city of Nablus.
- (24) The entrances to the old city shall be limited rigorously to the few old gates, this will serve as an

efficient bulwark against the impact of modern traffic and this will contribute to a more complete and better preservation of the traditional environment within the old city of Nablus.

- (25) Traffic inside bazaars shall be banned except for delivering at specified times so that shoppers and tourists will be secure.
- (26) No wheeled traffic shall be permitted in the old city.

 Exception will be grant only to fire-engines, ambulances, waste removal trucks, and deliveries during certain hours, and not exceeding a certain size.
- (27) All public open spaces within the historic quarters shall be maintained for the enjoyment of all and no structure, temporary or otherwise unless for brief uses for special occasions shall be permitted in them.
- (28) All street furniture shall be carefully designed.
- (29) All roads shall be examined, to establish original surface naterial. The stone lined drains, especially in the bazaars, shall be reset to the historic levels. The road system shall not be expanded but maintained at the present level.



Necessary tubes and wires shall be buried or hidden within the fabric of the buildings

- (30) External plumbing, unsightly additions and new uncompatible materials shall be removed from the historic quarters.
- (31) Trees shall be preserved in order to have better landscaping, and to keep the environmental quality of the historic quarters. The elimination of the overhead distribution system of wires for electricity and telephone will allow the tree planting campaign to progress unhampered.
- (32) All electricity and telephone services should be carried to the historic quarters in an underground duct, to be brought up as and when required for servicing the houses. The use of a community aerial will remove the necessity for the introduction of an aerial per unit.
- (33) Necessary tubes and wires, ducts and reinforcement shall be buried or hidden within the fabric of buildings so that the aesthetic integrity of the district is distributed as little as possible.
- (34) An overall street light system and a system to flood light the ramparts shall be designed and implemented.

 The style of the light fixtures shall not be in con-

flict with the character of the district.

- (35) Main feed-in lines and inside systems must be the shortest possible and hidden but in the remotest areas.
- (36) In restoring a building, its entire setting shall also be considered.
- (37) In case of adaptive use, ensure that the function selected for the old building will not suppress its original characteristics and does not unduly exploit it.
- (38) Original parts should be freed from later additions, and conserved and harmoniously incorporated into a new architectural structure.
- (39) The general standards of protection, stabilization, preservation, rehabilitation, restoration, and reconstruction shall apply. (see Appendix 13)
- (40) Proper maintenance of public facilities is a prerequisite for preservation, as well as for pleasant appearance and tolerable living conditions within the historic quarters to be preserved.

- (41) In any case of development in the historic quarters the following guidelines should be considered:
- "a. All new structures shall be constructed to a height visually compatible with the buildings and surroundings with which they are visually related.
- b. The gross volume of any new structure shall be visually compatible with the buildings and surroundings with which it is visually related.
- The proportion between the width and height of facades shall be visually compatible with the buildings and surroundings with which it is visually related.
- d. The proportions and relationships between the doors and the windows which are visible from public way shall be visually compatible with the buildings and surroundings with which it is visually related.
- e. The rhythm of solids to voids, created by openings in the facades, shall be visually compatible with the buildings and surroundings with which they are visually related.

- f. The existing rhythm created by existing building masses and spaces between them shall be preserved.
- g. The materials used in the final facades shall be visually compatible with the buildings and surroundings, with which they are visually related.
- h. The texture inherent in the facades shall be visually compatible with the buildings and surroundings with which they are visually related.
- The design of roofs shall be visually compatible with the buildings and environment with which they are visually related.
- The landscape plan should be sensitive to the individual building, its occupants and their need. Further, the landscape treatment should be visually compatible with the buildings and environment with which it is visually related.
- k. Directional expression (horizontal or vertical dominance) of nearby structures shall be considered.
- (42) In the case of facades visible from the public way:

- original overall proportions of the building shall be retained, stories shall not be added or removed from the original building. Portions of the original facades shall not be demolished.
- existing original openings shall be retained. New openings should not be created unless specifically authorized by the commission.
- existing architectural details are to be restored and repaired when possible. "40
- (43) Since there is a tradition not to have signs in the bazaars, it shall be followed. When signs may be needed elsewhere in the quarters, they shall be integrated with the overall design of the building. They shall complement the architectural character of the buildings. No large signs are allowed then shall be inscale with their surroundings.
- (44) Colors should not be disturbed, black and white and colors which are visually compatible with the building and the surrounding with which they are visually related are only allowed.
- (45) Prepare materials for use in teaching about historic

preservation concepts at all school levels.

CONCLUSION

The old city of Nablus is one of the best preserved traditional cities on the West-Bank of the Jordan river. It contains one of the greatest collections of national monuments in all the West Bank, and is considered by many to be the most attractive city in that area after Jerusalem.

Nablus is seriously threatened with the disfigurement and destruction, which may cause the eradication of whole chapters of its history. The question then, is how can future architectural development in the old city of Nablus be prevented from accelerating the loss of its cultural identity.

A systematic program of preservation is recommended. This program can offer present and future generations Nablus the opportunity to create a better community while maintaining and enhancing the best from the past.

Preservation must be integrated into the regular planning process. It must mean something to the man in the street and involve the community. Above all it must be compatible with contemporary ways of living, and with changes that are taking place. Preservation must be part of an organic process in order to assure the continued enjoyment of Nablus' special attributes embodied in its heritage. Such an approach will help to make Nablus dynamic and fascinating, as a place in which to live or to visit.

Efforts shall be made to identify the personality that the historic quarters convey, to revive past values, to regain the architectural integrity of the historic quarters and to create a more liveable environment. It is essential to maintain the charm and picturesque quality of this historic city about which an anonymous Palestinian poet once wrote "when you say fame, you mean Nablus."

NOTES

- These goals through the end of goal (3) are derived from: <u>Historic Preservation Inventory & Planning Guidelines: City of Las Vegas</u> prepared by Charles Hall Page and Associates, Inc, San Francisco, May 31, 1978. pp 165
- Page, Charles, H. & Associates, Inc. <u>Historic Preservation Inventory & Planning Guidelines: City of Las VEgas</u>. San Francisco, May 31, 1978. pp 170
- These roles through the end of role 10 are derived heavily from <u>Historic Preservation Inventory & Planning Guidelines</u>: <u>City of Las Vegas</u>. pp 171-172
- Bryant, Mavis. <u>Zoning for Community Preservation a Manual for Texans</u>. Texas Historical Foundation, 1976. pp 29-30
- P. Zielger, Jr., Leopold Alder II & Walter C. Kidney. <u>Revolving Funds For Hoistoric Preservation</u>. Ober Park Associates, Pittsburgh, PA, 1975
- Glen, Marsha. <u>Historic Preservation</u>: <u>A Handbook for Architectural Students</u>. A.I.A. Institute Scholar, 1974.
- Kennedly, B.C. Jones, D.B., Schubert R.P., Yamarik M.G.
 "A new Documentation Methodology: Videographic Architectural Analysis, in the <u>ICOMOS</u> 8th <u>General Assembly and International Symposium old Cultures in New Worlds"</u> Volume 1, Washington, D.C., 1987. pp.347
- Page, Charles H & Associates, Inc., pp 31
- Livingston, R. <u>Architectural Conservation and Mineralogy</u> Canadian Mineralogis Volume 24, 1986, p 307 - 322
- American Society for Testinf of Materials: Recommended
 Practice for Development of Short-term Accelerated
 Tests for Prediction of Service Life of Building
 Materials and Components, Standards F 632, Phila-

- delphia, PA, 1980.
- Richard A. Livingston, U. Roberto Franssetto. "Nondestructive Diagnosis of Building Condition" In ICOMOS 8th General Assembly and Intentional Symposium Old Cultures in New Worlds, Volume 1, Washinton, D.C., 1987. pp 363 369
- Bryant, Mavis. Zoning for Community Preservation. pp
- Alan, Altshuler. <u>The City Planning Process</u>, New York: Cornell University Press, 1965. pp 299
- C.A. Doxialis. "Urban Renewal and the future of the American Cities" Vol III, (Chicago: Public Administration Service) 1966. pp 101
- Abdul, La. "Basis of Islamic Culture", Institute of Indo-Middle East Cultural studies, (Hydarabad, India: 1959) pp 177
- Symonds H. Pringle. "The Architect in the Historic District" in Old & New Architecture, Design Relationship, The Preservation Press, National Trust for Historic Preservation, 1980. pp 209 210
- Lu, Weiming. "Preservation Criteria: Defining and Protecting Design Relationships, in <u>Old & New Architecture</u>, <u>Design Relationship</u>, The Preservation Press, National Trust for Historic Preservation, 1980. pp 188
- Reprint from Historic Preservation, Volume 20, No. 2
 April June, 1968. pp 50 -58 Published by the
 National Trust for Historic Preservation Press.
- Brutzkus, Eliezer. <u>Prerequisites for Preservation of Historic Urban Quarters</u>, Jerusalem, 1972. pp 28
- Fathy, Hassan. "Constancy, Transportation and Change in the Arab City" in From Medina to Metropolis, Heritage and Changes in the near Eastern City. Edited by Carl Brown. The Darwin Press, Princeton, New Jersey, 1973. pp 329
- 21 Fitch, James M. <u>Historic Preservation Curatorial Management of Built World</u>, McGraw-Hill Book Company, 1982. pp 63
- Wand, Pamella. <u>Conservation and Development</u>, (New

- Castle Tyne : Oriel Press Limited), 1968. pp 78
- 23 Brutzkus. pp 32
- Robert, Branualla and Giannilaugo. <u>The Rediscovery of the Pedestrian</u>, Washington, D.C., H.U.D., Int for Environment Action, 1976. ppl
- Rapoport, Amos. <u>Human Aspects of Urban Form</u>, (Great Britain: Wheaton and LTD, Exeter, Pergamon Press, 1980) pp 240
- Szalary, G.D. "Design of Commercial Functions in Historic Areas" in <u>ICOMOS</u> Volume 1, Washington D.C., 1987. pp 199 & 202
- Fitch, James M. pp 47
- Williams, Jr. N. Kellogg, Edmund H. and Gilbert Frank
 B. <u>Reading in Historic Preservation Why? What?</u>
 How? (Rutgers The State University of New Jersey, 1988) pp 233
- Tseckares, Charles N. "Design Consideration in adaptive use Projects", in <u>Old & New Architecture Design Relationship</u> The Preservation Press, National Trust for Historic Preservation, 1980. pp 162
- Rarrot, Andre. Translated by Farley James H. <u>Land of Christ</u> Archaeology, history, geography, Fortress Press, Philadelphia, 1968. pp 86
- Feilden, Bernard S. "Between Two Earthquakes The management of Cultural Property in Seismic Zones"

 In ICOMOS Volume II. Washington D.C., 1987. pp
 582 587
- 32 Smook, Roger A.F., "Preservation and town planning: New Elements in an old Fabric", in <u>ICOMOS</u> Volume 1, Washinton D.C., 1987. pp 190
- Robert C. Mark. A.I.A. "The Cleaning and Waterproof Coating of Masonry Buildings in <u>Preservation Briefs #1</u>" U.S. Government Printing Office, Washington D.C., 1979. pp 2
- Pier, Richard. "The Preservation of Stone Today : Technology Awaits Philosophy, in ICOMOS Volume 1. pp 453 - 458

- Bianca, Stefano. "Designing Compatibility between New Projects and the Local Urban Tradition" in <u>Continuity and Change</u>, Design Strategies for large scale urban development. The Aga Khan Program for Islamic Architecture, Cambridge, Massachusetts, 1984. pp 22
- Raleph W. Miner. <u>Conservation of Historic and Cultural Resources</u>, Advisory Service Report #244, American Society of Planning Officials, 1313 E. 60th Street, Chicago IL 60637, 1969
- 37 Klein, John V.N., County Executive. <u>Historic Trust Manual</u>, Council on Environmental Quality County of Suffolk Hauppauge, Long Island, New York 11787, Revised Edition, 1975. pp 21 25
- Technical Preservation Services, National Park Service,
 U.S. Department of Interior. Respectful Rehabilitation, Answers to your questions about old buildings. The Preservations Press, Washinton D.C., 1982. pp 160
- Williams, Jr.N. et al. pp 185
- 40 Hunter, Zucheli & Association, <u>Guidelines for Exterior Rehabilitation Charleston</u>, <u>West Vriginia</u>
 Charleston, West Virginia, 1984. pp 29
- 41 Brutzkus, Eliezer. pp 19
- 42 <u>Preservation: Toward An Ethnic in the 1980s</u>, National Trust for Historic Preservation, Washinton D.C. 1980. pp 29 32

BIBLIOGRAPHY

- Abdul, La. "Basis of Islamic Culture", Institute of Indo-Middle East Cultural Studies, (Hydarabad, India: 1959)
- Abdulhac Samir. Conservation Problems in the Middle East and North Africa in <u>Designing in Islamic Cultures</u> (3).

 <u>Adaptive Reuse Integrating Traditional Areas into the Modern Urban Fabric</u>, Aga Khan program for Islamic Architecture, Cambridge, Massachusetts, 1983.
- Abu-Lughod, J. "Problems and Policy Implication of Middle Eastern Urbanization" in <u>Studies on Development Prob-</u> <u>lems in Selected Countries in the Middle East</u>, 1972 (UN, New York, 1973).
- Al-Dabagh, Mustafa. <u>Beladuna, Palestine</u>, First Volume, Al-Taher Brothers Library, Jaffa - Arabic reference.
- Alan, Altshuler. <u>The City Planning Process</u>, New York, Cornell University Press, 1955
- Al-Hathloul, Saleh Ali. <u>Tradition, Continuity, and Change in</u>
 the <u>Physical Environment: The Arab-Muslim City</u>. PhD.
 Dissertation. M.I.T. 1981.
- American Society for Testing of Materials: Recommended Practice for Development of Short-Term Accelerated Tests for Prediction of Service Life of Building Materials and Components, Standards E 632. Philadelphia, PA. 1980.
- Amos, Rappopot. <u>Human Aspect of Urban Form</u>, New York, Wheaton an LTD, Exeter, Pergamon Press, 1980.
- Antoniou, Jim. <u>Islamic</u> <u>Cities</u> <u>And</u> <u>Conservation</u>, The UNESCO Press 1981.
- Arraf, Shukri. <u>The Palestinian Arab Village</u>, (buildings and landuse), Arab studies society, Jerusalem, 1980 (Arabic reference).
- Ardlan, N. and Bakhtiar, L. <u>The Sence Of Unity</u>, University of Chicago Press, Chicago, 1973.
- Barnet, Jonathan. <u>Urban Design And Public Policy</u>, New York : Architectural Recod Books, (1974).

- Bianca, Stefano. Desining Compatibility between New Projects and the Local Urban Tradition, <u>Designing in Islamic Cultures (4)</u>, <u>Comtinuity and Change Design Strategies for 8 Large-Scale Urban Development</u>, the Aga Khan program, Cambridge, Massachusetts.
- Bianca, Stefano. "Fez: Toward the Rehabilitation of a Great City" in <u>Conservation as Cultural Survival</u> the Aga Khan Award for Architecture 1980.
- Bokhari, Abdulla, Y. "Conservation in the Historic District of Jeddah in <u>Designing in Islamic Cultures 3. Adaptive</u> <u>Reuse</u>. Integrating Traditional Areas into the Modern Urban Fabric. The Aga Khan program for Islamic Architecture, at Harvard University and M.I.T., Cambridge, Massachusetts, 1982.
- Branulla, Robert and Laugo Gianni. <u>The Rediscovery of Pedes-trian</u>, Washington D.C.: H.U.D., Institute for Environmental Action, 1976.
- Brown, K. Jol'e, M., Sluglett, P. and Zubaida, S. <u>Middle</u>
 <u>Eastern Cities in Comparative Perspective</u>, 1986
- Brown, Sarah G. Palestinians and their society 1880 1946, A Photographic Essay. Quartet Books, London, New Melbourne, 1980.
- Brutzkus, Eliezer. <u>Prerequisites for Preservation of Historic Urban Quarters</u>, Jerusalem, 1972.
- Bryant, Marius. <u>Zoning for Community Preservation</u>, Texas Historical Foundation, February 1976
- C.A. Doxialis. "Urban Renewal and the Future of the American Cities" Vol III, (Chicago : Public Administration Service) 1966.
- C-G. Archaeological Researches in Palestine, Vol II, 1896.
- Carpenter, G. Frank. <u>The Holyland and Syria Grand City</u>, New York, Doubleday, Pane and Company, 1925.
- Clark, B.D. "Urban Planning Perspective and Problems" in <u>The Changing Middle Eastern City</u>, Edited by G. H. Blake and R.I. Lawlwss, London, Croom Helm, 1980.
- Conder, C. Reichier. Tent work in Palestine, London, 1879.

- Dvakakis-Smith, D.W. "Socio-Economic Problems The Role of the Informal Sector" in <u>Changing Middle Eastern City</u>. Edited by G.H. Blake, and R.I. Lawless, London, 1980.
- Earle, M.W. <u>Conservation of Neighborhoods in Traditional</u>
 <u>Cities</u>, Ekistics (January-February 1980)
- El-Kholy, M.B. <u>Climatic Influences</u> <u>and Arab Architecture</u> (Text In Arabic) Beirut, Arab University, 1975
- Fathy, Hassan. Architecture for the Poor, The University of Chicago Press, Chicago & London, 1973
- Fathy, Hassan. <u>The Arab House in the Urban Setting</u>, The fourth Carreras Arab lecture of the University of Essex, November 3, 1970
- Fathy, Hassan. "constancy, transportation and Change in the Arab City" in <u>From Madina to Metropolis</u>, Heritage and Changes in the Near Eastern City. Edited by Carl Brown, The Darwin Press, Princeton, New Jersey, 1973.
- Feilden, Bernard S. "Between Two Earthquakes the Management of Cultural Propoerty in Seismic Zones" <u>In ICOMOS</u> Vol II. Washington D.C., 1987.
- Fitch, James Marston, <u>Historic Preservation</u>: Curatorial Management of the Built World. McGraw-Hill Book Company 1982
- Glen, Marsha. <u>Historic Preservation: A Handbook for Architectural Students</u>. A.I.A. Institute Scholar. 1974.
- Goknil, Ulya V. Ottoman Architecture, Grosset & Dunlap, New York, 1966.
- Grabar, Oleg. <u>Islamic Architecture and Its Decoration</u>, the University of Chicago Press, 1964.
- Grabar, Oreg. The Formation of Islamic Art, New Haven, 1973
- Gunn, Clare A. <u>Tourism Development</u>, New York: Crane, Russack and Company Inc., 1979
- Hakim, Besim. <u>The Arabic-Islamic Cities</u>, London, 1986 Historic Preservation, Reprint. (National Trust for Historic Preservations: April June 1968, Vol. 20, No. 2)

- Hunter, Zucheli & Association. <u>Guidelines for Exterior Rehabilitation Charleston, West Virginia</u> Charleston, West Virginia, 1984.
- Hussaini. "On The Expression of Divine Will in the Traditional Commands" (India: 1871)
- Jacobs, Norman. The Sociology of Development, Iran as a case study. New York: Praeger Publishers, 1966, Ch. 3
- John, R. Hayes, Editor. <u>The Genius of Arabic Civilization</u>
 Source of Renaissance, 2nd Edition, The M.I.T. Press,
 Cambridge, Massachusetts, 1978
- Kanaan, T. The Palestinian Arab House: Its Architecture & Folklore, Journal of the Palestinian Oriental Society, Vol XII, Jerusalem
- Kennedly, B.C. Jones, D.B., Schubert R.P., Yamarik M.G. "A new Documentation Methodology: Videographic Architectural Analysis, in <u>ICOMOS 8th General Assembly and International Symposium old Cultures in New Worlds</u>" Vol I, Washington D.C., 1987.
- Klein, John V.N., County Executive. <u>Historic Trust Manual</u>, Council on Environment Quality - County of Suffolk -Hauppauge Island, New York 11787, Revised Edition, 1975.
- Kuhnel, Ernst. <u>Islamic Art and Architecture</u>, Cornell University Press, Ithaca, New York, 1966
- La, Abdul. <u>Basis of Islamic Culture</u> (Hydarabad, India: 1959), Institute of Indo-Middle East Cultural Studies.
- Lapidus, Ira M. <u>Middle Eastern Cities</u>, University of California Press, Berkeley, 1969
- Lapidus, Ira M. <u>Muslim Cities in the Later Middle Ages</u>,
 Harvard University Press, Cambridge 1967
- Lapidus, Ira M. 1969, <u>Muslim Cities and Islamic Societies</u>, Middle Eastern Cities. Ed. by Ira M. Lapidus, University of California Press
- Lawless, R.I. "The Future of the Historic Centers: Conservation or Redevelopment" in <u>The Changing Middle Eastern City</u>. Edited by G.H. Blake and R.I. Lawless. London: Croom Helm, 1980.
- Leary, Lewis G. The Real Palestine of Today, New York,

- McBride, Nast & Company, 1911.
- Lesuik, S. "Landscaping Planning For Energy Conservation in the Middle East" Ekistics (April 1980)
- Liebich, Salam. <u>The Architecture of the Mamluk City of Tripoli</u>, the Aga Khan program for Islamic Architecture at Harvard University and the M.I.T. Cambridge, Massachusetts, 1983.
- Livingston, R. <u>Architectural Conservation and Applied Mineralogy</u> Canadian Mineralogist Vol. 24, 1986.
- Lu, Weiming. "Preservation Criteria: Defining and Protecting Design Relationships", in <u>Old & New Architecture</u>, <u>Design Relationship</u>, The Preservation Press, National Trust for Historic Preservation, 1980.
- Miles, Danly "The Islamic Architectural Traditions and House" Ekistics (January February 1980).
- Morris, A.E.J. "The Changing Sug : Commercial Heart of the Historic Islamic City", <u>Middle East Construction</u>, Vol. 7, No. 6, June 1982.
- P. Zielger, Jr., Leopold Alder II & Walter C. Kidney. Revolving Funds for Historic Preservation. Ober Park Associates. Pittsburgh, PA, 1975.
- Page, Charles, H. & Associates, Inc. <u>Historic Preservation Inventory & Planning Guidelines</u>: <u>City of Las Vegas</u>, San Francisco, May 31, 1978.
- Parrot, Andre translated by James H. Farley, <u>Land of Christ</u>, Fortress Press.
- Pier, Richard. "The Preservation of Stone Today : Technology Awaits Philosophy, in <u>ICOMOS</u>. Vol. I.
- <u>Preservation: Toward an Ethnic in the 1980s.</u> National Trust for Historic Preserrvation, Washington D.C., 1980.
- Raleph, W. Miner. <u>Conservation of Historic and Cultural Resources</u>. Advisory Service Report #244, American Society of Planning Officials, 1313 E. 60th Street, Chicago IL 60637, 1969.
- Rappoport, Amos. <u>Human Aspects of urban Form</u>, Great Britain: Wheaton and LTD, Exeter, 1980.
- Raymond, Andr's. The Great Arab Cities in the 16th 18th

- Centuries, 1984.
- Richard A. Livingston. U. Roberto Franssetto. "Condestructive Diagnosis of Building Condition" in ICOMOS 8th Assembly and Intentional Symposium Old Cultural in New Worlds. Vol I. Washington D.C., 1987.
- Ritter, Carl. <u>The Comparative Geography of Palestine and Sinaitic Peninsular</u>, Greenwood Press, Publishers, New York, 1968.
- Robert, Branualla and Giannilaugo. The Rediscovery of the Pedestrian, Washington D.C., H.U.D., Int for Environment Action, 1976.
- Robert C., Mark A.I.A. "The Cleaning and Waterproof Cating of Masonry Buildings" in <u>Preservation Briefs</u> #1, U.S. Government Printing Office, Washington D.C., 1979.
- Roberts, M. Hugh P., <u>An Urban Profile of the Middle East</u>, London: St. Martin, 1979.
- Rossi, Aldo. <u>The Architecture of the City</u>, The M.I.T. Press, Cambridge, Massachusetts, and London, England, 1982.
- Safdi, Moshe. <u>The Harvard Jerusalem Studio</u>, The M.I.T. Press, 1986.
- Saqqaf, Abdulaziz. The Middle Eatern City, New York, 1987.
- Scerrato, Umberto, <u>Monuments of Civilization</u> Islam Crosset and Dunlap Publishers, New York 1976.
- Seminar Proceeding Architectural Transformation in the Islamic world
 - a Towards an architecture in the spirit of Islam
- b Conservation as Cultural survival Aga Khan Award or Architecture, Genera, 1978
- Serjeant, R.B. and Lewcock, R. (ed.). <u>Sana' An Arabian</u>
 <u>Islamic City</u>, Cambridge. World of Islam Festival
 Trust, 1983.
- Shiber, Saba. <u>Recent Arab City Growth</u> Kuwait, Government Printing Press.
- Shin'ar, Amnon, "Nablus The Development of the Built Environment in an Arab City" in <u>Geographic Studies of</u> <u>Israel</u>, Magazine #7, 1970. (Hebrew reference).
- Smook, Roger A.F., "Preservation and Town Planning : New

- Elements in an Old Fabric" in ICOMOS Vol I., Washington D.C., 1987.
- Stanley, D.D., Penthryn. <u>Sinai & Palestine in Connection</u>
 <u>with theit History</u>, Draf Publishers Limited, London,
 1986.
- Strange, Guy Le. <u>Palestine under the Moslems</u>, <u>A Description of Syria and the Holyland</u>, <u>from AD 650 1596</u>, Khayats, Beirut, 1965.
- Symonds H. Pringle. "The Architect in the Historic District" in <u>Old & New Architecture, Design Relationship</u>, The Preservation Press, National Trust for Historic Preservation, 1980.
- Szalary, G.D. "Design of Commercial Functions in Historic Areas" in <u>ICOMOS</u> Vol. I, Washington D.C., 1987.

Technical Preservation Services. National Park Service, U.S. Department of Interior. <u>Respectful Rehabilitation</u>, Answers to your questions about olf buildings. The Preservations Press, Washington D.C., 1982.

Tekeli, Ilhan. "Urban Patterns in Anatolia : Organization and Evolution" in <u>Conservation as Cultural Survival</u>. The Aga Khan Award for Architecture, 1980.

The Survey of Western Palestine, Memories, Palestine Exploration Fund, Vol II, 1882.

Thomson, William M. <u>The Land and the Book, Central Palestine and Phoenocia</u>, New York, Harber & Brothers, Publishers. Franklin Square, 1982.

Tristan, H.B., <u>The Land of Israel or A Journal of Travels in Palestine</u>. 2nd Edition, London: Society for Promoting Christian Knowledge, 1866.

Tseckares, Charles N. "Design Consideration in Adaptive Use Projects", in Old & New Architecture Design Relationship The Preservations Press, National Trust for Historic Preservation, 1980.

Unsal, Behcet. Turkish Islamic Architecture, London, 1959.

Wand, Pamella. <u>Conservation</u> <u>and</u> <u>Development</u>, New Castle Tyne, Oriel Press LTD, 1968.

Future Planning Strategy: A Framework of Action An Urban Profile of the Middle East, M. Hugh P. Roberts, St. Martin's, New York, 1979.

Future Planning Strategy: a Framework for Action

Having drawn up one final picture of developing trends in Middle Eastern urban societies, it remains to summarise the problems which have been seen to exist in the region. This summary is followed by an Identification of aims, objectives and courses of action for urban planning in the future, which Middle East countries, contemplating their individual urban situations, may see fit to adopt or may, indeed, regard as unavoidable.

Problems

(1) Growth

- (a) Forecasts of continued large population increase for the future.
- (b) Forecasts of populations getting younger, with resultant expansion of potential labour forces, often ahead of an individual national economy's ability to generate job opportunities for this labour force.
- (c) Forecasts of continued population increase in urban areas ahead of overall national rates of growth, owing to the combined pressures of high natural increase and large in-migration movements from rural or paripheral
- (d) Development of new settlements in marginal locations or based on currently expanding economies, the justification for which will, in the long term, be temporary, with consequent threat to the continued survival of such settlements, once these economies return to more conventional patterns of growth.

(2) National Inadequacies

- (a) Forecasts of the mability of national building industries, public or private, to cater for housing demands of the future.
- (b) Forecasts of overloading of, and overconcentration on, urban facilities, such as transport systems, shopping facilities, public open space and office space, etc.
- (c) Forecasts of overloading of, and overconcentration on domestic utilities in housing areas, such as electricity, water supply, sewers, telephones, etc.
- (d) Forecasts of madequate growth performance to generate sufficient investment capital in the private or public sector which can be allocated tu eradicate poverty traps, malnutrition. illiteracy, poor education in general and low health standards.

(3) Change

- (a) Observations of change, growth and speculative development threatening much of what remains of elements of the traditional built environment of the Middle East, both in overall urban planning and more specifically architectural terms
- (b) Widespread adoption of foreign (mostly Western) building practices. materials and planning techniques, creating a built environment which is superimposed on the region with frequent unsuitable long ferm effects. One of these in particular is the temporary nature of the suitability of suelt practices, materials and techniques.
- (c) Breakdown of existing community structures as a result of greater psychological and physical mobility and widespieze adoption of foreign (usually Western) values. These lead to bewilderment and disastraliation among populations where change is taking place alread of assimilation processes, resulting in social instability and possible eventual destructive reaction by underprivileged or even only mildly affected groups.
- (d) Observation of bewilderment and disassociation not only with the symptoms of change but the very existence of change itself as a further component of instability with possible similar responses to those of (3)(a).

- (a) Disappearance of traditional urban flavour and architectural beauty as areas and buildings possessing such qualities decline or decay in the context of, or are regarded as irrelevant to, new directions of economic growth
- (b) Loss of building and design skills built up and evolved in the rest to impute

- special environmental requirements in an area where these were crucial, to be replaced with modern artificial methods of environmental control.
- (c) Decline of traditional economies, craft industries and farming practices in competition with more modern processes, despite components of real value which such traditional practices offer for many modem problems.

Having made an identification of the major urban areas and classified them in four groups, it is now necessary to draw up a framework of planning action which may allemate or partly solve all the identified problems before they become so profound as to become irrevocable. This framework for action is drawn up by identifying an overall aim which may be realised through certain objectives in turn achievable with certain courses of action. Each of the Identified courses of action refers to one or more of the specific problems which it is seeking to solve.

Salutions

To create for societies of the future Middle East, hospitable, comfortable, meaningful, and where possible beautiful urban environments, which promote modern standards of living but cushron the people from the worst byproducts of the change which will variously be needed to bring this about. The result to be an easy assimilation of populations into their urban environments enabling identification with it to the extent of feeling that they are part of a community.

Objective 1:

Cut off at source as many as possible of the problems besetting successful evolution of change and development for the better.

- (a) Implement family planning policies to include birth control and fiscal/ tinancial incentives to encourage smaller families. Long term tolution to problems (1)(a) and (1)(b). Partial solution to problems (1)(c), (2)(a), (2)(b), (2)(c), (2)(d),
- (b) Adopt policies to reduce levels of differentiation between rich and poor regions and between economic core areas, and periphenes. Invest particularly in employment generating projects and in the provision of urban and doinestic faculities in poor and periplieral regions to make their standards of living in some way comparable with rich and core areas. Long term solution to problem (1)(c).
- Partial solution to problems (2)(b), (2)(c), (2)(d), (3)(c), (3)(d), (4)(c). (c) Reduce economic discrepancies between rich and poor areas, (as in course of action (1)(h) by policies of decentralisation. Encourage industrial and commercial investment of all kinds in migration source areas not only to hait inward movement from the periphenes but to encourage 'back

mueration'. Long term solution to problem (1)(c), Partial solution to problems (2)(b), (2)(c), (2)(e), (3)(c), (3)(d), (4)(c).

Promote and encourage where possible selffielp philosophy notably in the areas of house building and small scale business and economic activity.

- (a) Allocare funds for site and service schemes.
- Partial solution to problems (1)(d), (2)(a), (2)(b), (2)(c), (2)(d), (3)(a), (3)(b), (3)(c), (4)(a), (4)(b), (4)(c),
- (b) Set up organisations to make building materials supplies available to self-

help builders.

Partial solution to problems (1)(d), (2)(a), (2)(b), (2)(c), (2)(d), (3)(a), (3)(b), (3)(c), (4)(a), (4)(b), (4)(c).

- (c) Initiate research into low technology solutions to building practices and make available resources for implementation of these. Partial solution to problems (1)(d), (2)(a), (2)(b), (2)(c), (2)(e), (3)(a), (3)(b), (3)(c), (3)(d), (4)(a), (4)(b), (4)(c).
- (d) Make available more widespread grants/no interest loans low interest loan schemes to promote house building or business creation at the individual level.

Partial solution to problems (1)(d), (2)(a), (2)(b), (2)(c), (2)(d), (3)(a), (3)(b), (3)(c), (3)(d), (4)(a), (4)(b), (4)(c).

Objective 3:

Develop new town planning and design practices to be made to fit more suitably into the social, economic and physical requirements of future communities

Courses of actions

- (a) Carry out further investigation into design and planning techniques of the type described in Chapter 7. Partial solution to problems (1)(d), (2)(a), (2)(b), (2)(c), (3)(a), (3)(b).
- (4)(a), (4)(b), (4)(c). (b) Implement padt projects for new town designs of the type described and
- dlustrated in Chapter 7. Partial solution to problems (1)(d), (2)(a), (2)(b), (2)(c), (3)(a), (3)(b). (4)(a), (4)(b), (4)(c).
- (c) Monitor and measure social and economic reactions to change in existing and new communities and particularly those of (b) above to build up knowledge of how to improve future town planning specifications. Partial solution to problems (1)(d), (2)(a), (2)(b), (2)(c), (3)(a), (3)(b). (4)(a), (4)(b), (4)(c).

Obicctive 4:

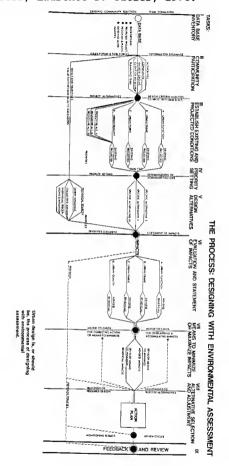
Re-emphasize the importance of the Middle East's urban traditions in the solution of its present problems.

Courses of action:

- (a) Establish effective methods of conservation control of ecrtain planning and architectural elements, not only for the sake of preservation but to provide examples of past solutions to relevant current problems, to entimize a sense of place, to retain the tradition of beauty in built form in the region and to make practical working use of buildings from a previous are.
- Partial salution to problems (3)(1), (3)(c), (3)(d), (4)(1), (4)(b), (4)(c). (b) Develop design themes which adapt or have their origins in the best elements from lustonical patterns, to create modern versions of functioning but, where possible, beautiful building and settlement design. Parnal solution to problems (1)(d), (3)(a), (3)(c), (3)(d), (4)(a), (4)(b),
- (c) Pursue town planning policies which develop components of design and layout from the past such as a sense of place, and components of this, such as senal vision, visual punctuation, contrast, complementarity and scale, etc. (see G. Cullen in bibliography). Partial solution to problems (3)(2), (3)(e), (3)(d), (4)(a), (4)(b), (4)(c).

Designing with Environmental Assessment.

Source: Recycling Cities for People. The Urban Design Process, Laurence S. Cutler, 1976.



Outline of Component Tacks

Task i Data Base Inventory

General description of the project
—history, chronology, and statistical base
—Purpose and design criteria
—Proposed program and plans
Description of project areas
—Physical anvironment
—Socioegonomic environment

Task II

Community Participation and Reaction

Methods of citizen participation information from community information to community Modes —Hearings and meatings

Modes

—Hearings and meating

—Riddo/TV/newspaper

—Ouestionnaires

—Infervew

—Worksnops

—Others

—Others The appropriate uses, advantages, and disadvantages of various methods and modes—groups reached Community involvement necessary to discern —Muffusity of goas & user needs —Oommanf socious —Promise of issue —Promise of issue —Provinse —P

Task III Establishing Existing Conditions and Analyzing Impacts of Projected Conditions

Urban Functions
—Existing conditions
—Projected conditions
Urban Frame
—Existing conditions
—Projected conditions
Urban Fabric
—Existing conditions
—Projected conditions

Urban Quality of Life
-Existing conditions
-Projected conditions

Task IV
The Establishing of Priorities Through Value
Factors in Order to Evaluate Alternatives

Establishing qualify indicators for conditions described above
—Urbain design qualify indicators (sources of valua factors)
—Socioeconomic environment qualify indicators (sources of value factors)

Task V
Dasign Alternatives
Schames/Projects Alternatives

Presenting, comparing, and evaluating alternative schemes Project physical program and plan

Task Vi Stating impacts & Devaloping Means to Minimiza Adverse or Maximiza Beneticial Effects

Imaect arias include
--Reponse to goats & objectives
--Project operation program & use
--Urean function Prame, and labors
--Urean quary of its components

—Urban function frame, and labno
 —Urban dusiny of life components
 Overlapping impacts
 Adverse impacts & means to minimize
 Beneficial impacts & means to maximize

Task VII Adjustments and Alternatives to Establish a Final Action Plan

Task VIII Raview and Feedback

Management of assessment and review process

-Assessment-review cycles with agencies & community

-Monitoring interior results—lesting by both professional analysis and user review Feedback rind loseign & lunding docusions & stages Feedback rind loseign environmental inventories, plans, values —Creation of local environmental base data for future use

Within each simplified Task category the complexity of considerations increases. Just within Task III—Urban Function, Urban Francio, Urban Game, urban Gusaliny of Lifa—Hare are mynad possibilities in describing the components and concerns of a city. Besidas, what is an urban frama? Life a living body, this city includes a selection or a frame and seweral separate circulation systems. The city, too, includes a nevinue system, which causes various parts to function and beliave in particular ways. There is also the lieshor the fabric of a city, and there is the spint—a quality of lifa about it that makes if some and individuals.

With such part there are particular concerns. We incently outlined here elements for the US Description of US Descript

B urban frama a collection

408 infrastructure 01 Iss book in this calegory

solid wasre ECS country or stara

A	Urban Functiona	A403c A404	-Suitability for development Soils	A507 A508	Behavior modes and personal space Preservation and maximization of cultural
		A404e A404b	Composition & depth Charecteristicspermagnisty, loadbeging,		resources
4100	image goale		CONESIVERIESS	A600	Standards and design for health, salety
A101	Goals & objectives	A405	Vegetation		and security
102	General cnlesse	A405e	-Trees/Shrubs	A601	Fire selety codes
4103	Problems & polentials/frends & lendencies	A405b A405c	-Ground cover -Climate adaptability & density	A602	Building codes-structural, heating, ventilating,
4104	Project organization & methodology	A406	Widile		conditioning, electrical, ges, plumbing
4106 4106	Character of environment: physical & spiritual Government & laws	A406a	-Manne/Land	A603	Sanitation standards-water sewage, waste
1107	Regional context	A406b	-Native types	A604	Heatment, solid wastes Trensportation standards—nignway and preffic
4106	International relations	A406c	-Effect of development	MOUN	engineering, railway, airgort
		A407	Hydrology	A605	Health and salety standards
L200	Social functions	A407s A407b	-Aveilability -Quality	A606	Educational standards
A201	Character of community	A407c	-Surface & subsurface	A607	Labor standards
1202	Demographic background & change	A407d	-Movement, storage, and erosion	A608 A609	Power standards Environmental standards
203	Regional & local projections	A406	Microclimalea	A610	Industrial process and equipment standards—
1204	Lifestyle/user needs Social stratification/grouping	A408a	-Sun angles and orientation	11010	welding, pressura vessel, piping
1205	Values, problems, and objentials	A408b	-Wind effects and directions		
207	Worker/Resident/Visitor interace	A408c A408d	-Shade/Shadow -Snow/ica/Flost action	A700	Citizen reaction
208	Displacement, relocation, and migration patterns	A408e	-Rainfall/Temperature/Humidity	A701	Delining goals & objectives
		A409	Natural hazards	A702	Pros versus cons
1300	Economic functions	A409a	-Flood/Fira	A703	Public awaranass
1301	Regional & local projections	A409b	-Humcana/Siorm	A704	User needs
1302	City tax base	A409c	-Tomado		Information networks:
1303	Cost to city	A409d A410	Earthquake		-Public officials -Civic associations
304	Feasibility	A410 A410a	Resources		Public interest groups
305	Marketability	A410h	—Energy		Neighborhood groups
306	Employment Education	A4100	-Air -Water		-Newspapel / Magazina / Nawsletters
308	Housing	A4100	-Land/Parks		-Radio/TV/Movie
309	Susiness—large, small, mail order	A410e	-Mnarais/Vecetaione		-individuals with specific expense
310	Commercial-retail, wndiesale	A411	Pollution control		-Other
311	Tourism-commercial, recreational	A412	Conservation & preservation of natural resources	A705	Interpreting design & selection criteria
312	Agriculture-social factors, food resources	A413	Maximization of natural resources	A706 A707	Comperison of goals & objectives
313	Industry-industrial planning			A/Q/	Risks & responsibilities
400		A500	Cultural resources		
	Natural and site functions	A501	History of area	В	Urhan Frame
401	Local ecology	A502	Hentage and legend		Ordan Frame
402	Local geology	A503	Archeological siles		
403 403a	Topography —Slope gradients & contours	A504 A505	Aesthetics and literature Museums, historic buildings, universities	8100	Massing
403b	-Special land forms and outcroppings	A506	Local taste factors	8101	Form generators
	apone and terms and administrating		Committee to a to a to a	0.07	Tomin gonerators
_					
102	Galeways & barriers	B312	Physical form of network-panial, linear, loop.	C109	Construction (ecnniques & materials: ispor
103	Centers & nodes		radial		availability
103	Centers & nodes Connectors, lines and interchanges	B 313	radial Interface and interaction of above	C110	availability Owner's menagement opticies and phasing
103 104 105	Centers & nodes Connectors, lines and interchanges Density, proportion, scale, end rhysten		radial	C110 C111	availability Owner's menagement opticies and phasing Public facilities & services comparability
103	Centers & nodes Connectors, lines and interchanges Density, proportion, scale, end rhythm Zoning, building heights. floor area ratios	B 313	radial Interface and interaction of above	C110 C111 C112	availability Owner's menagement opticina and phesing Public facilities & services compatability Preservation & maximization of resources
103 104 105 106 107 106	Centers & nodes Connectors, lines and interchanges Density, proportion, scale, end rhythm Zoning, building heights, floor area ratios Spahal sequence, views, vistas, Adjacency conditions; raid, soft	B313 B314 B400	radial Interface and Interaction of above Regional interface & interaction Infrastructure	C110 C111 C112 C113	availability Owner's menagement oblicies and phasing Public facilities & services compatability Preservation & maximization of resources Urban function: urban frema lift
103 104 105 106 107	Centers & nodes Connectors, lines and interchanges Density, proportion, scale, end rhythm Zonne, building heights floor area ratios Spahat sequence, views, vistas Adjacency concisions; nard, soft Transitional Zonoes & (liashith—cirections,	B 313 B 314	racial interface and interaction of above Regional interface & interaction Intrastructure Programs, future demands and goals, ellernatives	C110 C111 C112	availability Owner's menagement opticina and phesing Public facilities & services compatability Preservation & maximization of resources
103 104 105 106 107 106 109	Centers & nodes Connectors, lines and interchanges Density, proportion, scale, end mystrin Zonng, busiding heegins lione area ratios Spahas sequence, views, visitas Aplacency conchonisms: nare, soft Transitional zones & itextuisty—circectons, signage, and visual positybing	8313 8314 8400 8401	racial interface and interaction of above Regional interface & interaction infrastructure Programs, Jurice demands and goals, ellernatives Access to and quality of service legitimes for	C110 C111 C112 C113 C200	availability Owner's menagement options and phasing Public facilities & services comparability Preservation & maximization of resources Urban function: urban frema ht Building Treatment
103 104 105 106 107 106 109	Centent & nodes Connectors, lines and interchanges Density, proportion, scale, and mystim Zoring, busiding heights flore area ratios Scalasi sequence, views, visitas Transilional zorines & (liexibility—orections, signage, and visual poliubin Busiding prototypes & groupings	B313 B314 B400	risidal interface and interface on ol above Regional interface and interface on the resolution interface at interface on the resolution interface at interface and interface of the resolution interface of the resolution in	C110 C111 C112 C113 C200 C201	availability Owner's menagement obticina and phasing Public facilities & services comparability Preservation & maximization of resources Uthan function urban frema tit Building Trestment Comparative studies of building types & design
103 104 105 106 107 106 109	Centers & nodes Connectors, lines and interchanges Density, proportion, scale, end rhythm Zomn, busiding heights floor area ratios Solatia siquencia, views, visitas Adjacency oponitionism; nard, soft Transitional Zones & Blaschity-carections, signage, and visual postubor Busiding prototypes & grouping Helston massing	8313 8314 8400 8401	risidal interface and interface on ol above Regional interface and interface on the resolution interface at interface on the resolution interface at interface and interface of the resolution interface of the resolution in	C110 C111 C112 C113 C200 C201 C202	availability Cower's menagement opticina and phasing Public facilities & services compatibility Preservation & maximization of resources Urban function' urban frema lif Building Trestment Comparative studies of building types & design Materias & Structurar
103 104 105 106 107 106 109	Centent & nodes Connectors, lines and interchanges Density, proportion, scale, and mystim Zoring, busiding heights flore area ratios Scalasi sequence, views, visitas Transilional zorines & (liexibility—orections, signage, and visual poliubin Busiding prototypes & groupings	8313 8314 8400 8401 8402 8403 8403	radial interface and interaction of above Regional interface as interaction interface. A interaction interface as interaction interacture. Programs, Justine demands and goals, elementaries Access to and quasity of service iscendes for "Aviete"—buddy - Indiament, single, distribution or programs and programs of the pr	C110 C111 C112 C113 C200 C201 C202 C203 C204	availability Owner 3 menagement options and phasing Public facilities & services comparability Preservation & maximization of resources Urban functions urban farms fit Building Treatment Comparative studies of building types & design Materials & studies Tantura & color Tantura & color Tending & scale
103 104 105 106 107 106 109 110 111	Centera A nocies Connectors, lines and interchanges Dentity, production, scale, and mythin Dentity, production, scale, and mythin Dentity, production, scale, and mythin Scale adoption, screen, visitas Adjacency conditions, raine, soft Transilonial Zones & Blanchity—credions, signage, and visual pollupion Building produptes & groupings Heldric missaury Linear farmer smayars	8313 8314 8400 8401 8402 8403	risual interface and interaction of above Regional interface and interaction of allower Regional interface & interestic interface. A interestic interaction of a interestic inte	C110 C111 C112 C113 C200 C201 C202 C203 C204 C205	availability Owner a menigement options and presing Popility Ecities & services compatibility to Comercia, and the services compatibility Companished to Companished the Companished Services of Durdring types & design Mariera & Structure Tessure & Cotton Services of Cotton Companished Services of Cotton Cotton Cotton Companished Services of Cotton
103 104 105 106 107 106 109 110 111 112	Censers A nooles Connectors, iners auch interchanges Connectors, iners auch eine dreichen Zonnig, buuding heights loos area raious Soahal sögunder, verwei, veitas Adjacency bondstens, nard, ogs Adjacency bondstens, na	8313 8314 8400 8401 8402 8403 8404 8405	risidal interface and interraction of above Regional interface and interraction of above Regional interface & interraction intrastructure Programs, Muture demands and goes, elemantives Access to and quality of service receipts of and country of service receipts of and country of service receipts of and country of service receipts of a contraction of contraction receipts of a contraction of quality of service and programs of service receipts of service of contraction of contraction of service of service of contraction of service of se	C110 C111 C112 C113 C200 C201 C202 C203 C204 C205 C205	availability Owner 3 mengemeni optiona and phasing Public facilities & services compatibility Presamanoh e maximization of resources Urban functioni urban frama fit Bullding Treatment Comparative studies of burlding types & design Materias & structura Tensura & cours Tensura & cours Visibility requir aments Compazionity with existing Visibility requir aments Compazionity with existing
103 104 105 106 107 106 109 110 111 112	Censera A nocies Connectors, lines and interchanges Dentify, proportions, base, and mythin Dentify, proportions, base, and mythin Dentify, proportions, base, and mythin Santa Sequence, severa, vatas Adjacency connictors, nave, soft Transitional zones of illustitity—oriections, signage, and vasual positution Dentify prophysics Urban frame enalysis Land uses Land uses	8313 8314 8400 8401 8402 8403 8404 8405	risual interface and interaction of above Regional interface and interaction of above Regional interface & interaction of a freezional interaction of a guarantee of a gua	C110 C111 C112 C113 C200 C201 C202 C203 C204 C204 C205 C206 C207	a-waisbuily Owner a mengement options and phasing Public families & services comparability Presentation is maximized on the resources Urbein function under terms by Buildion Treatment Comparative studies of building types & design Materians & structure Testure & coole Proportions & scale Comparative studies Comparative studi
103 104 105 106 107 106 109 110 111 112	Censers A nodes Connectors, inex aut interchanges Connectors, inex design en design Connectors, inex design en design Connectors, inex design en design Connectors, inex desig	8313 8314 8400 8401 8402 8403 8404 8405	risual Interaction of stories Programs and Interaction of Stories (Interaction Interaction Interaction Interaction) Interaction Interactio	C110 C111 C112 C113 C200 C201 C202 C203 C204 C205 C205 C206 C207 C206	availability Chine or mengineers opened and presump Chine or mengineers opened and analysis Presundation & Raumzalaon of resources Urban function urban frems Int Building Treatment Comparative structes of building types & design Melerian & structura Proportion & scale Visibility requirement Compazionity with existing Compazionity with existing Springe & Visibility poliution controls
103 104 105 106 107 106 109 110 111 112	Censera A nocies Connectors, lines and interchanges Dentify, proportions, base, and mythin Dentify, proportions, base, and mythin Dentify, proportions, base, and mythin Santa Sequence, severa, vatas Adjacency connictors, nave, soft Transitional zones of illustitity—oriections, signage, and vasual positution Dentify prophysics Urban frame enalysis Land uses Land uses	8313 8314 8400 8401 8402 8403 8404 8405	risual interface and interaction of above Regional interface and interaction of above Regional interaction. Intrastructure Programs, strutir demands and goes, elematives Access to add quality of service receives for Access to add quality of service receives from Semeri-Coelection Interfaces, additional Coefficient Co	C110 C111 C112 C113 C200 C201 C202 C203 C204 C204 C205 C206 C207	availability Owner a menigement options and phasing Public families & services comparability Persandance in americani on treatures Urban hardinary urban ferma hi Building Treatment Comparative studies of building types & design Malerana & structure Testure & coole Proportions & scale Comparative studies Comparative studies Comparative studies Comparative from the existing Comparative hip exist
103 104 105 106 107 106 109 110 111 112 200 201 202 203 204	Censers A noose Connectors, Iners and Interchanges Adjacency consciours, Iners, 1917 Building prototypes & groupings Lichar Intera enalysis Linda usa For: —Respentitud —Re	8313 8314 8400 8401 8402 8403 8404 8405 8406 8407	risual Interaction of stories Programs and Interaction of Stories Programs, Stutin Commission of Stories Programs, Stutin Commission of Stories Storie	C110 C111 C112 C113 C200 C201 C202 C203 C204 C205 C205 C206 C207 C206	availability Owner a mengement options and presing Popular Excities & services compatibility to Charles and Services compatibility Companishment of Companishme
103 104 105 106 107 106 109 110 111 112 200 201 201 202 203 204 205	Censers A nodes Connectors, ines and interchanges Dentity, roportions, case, even dryptim Dentity, roportions, case, even dryptim Dentity, roportions, case, even dryptim Dentity, case, evens, vatas Adactoricy conditions, rand, soft Transitional zones de illustimity—crections, signifies, and vasual poliution Services of illustrative—crections, signifies, and vasual poliution Dentity of the processor Dentity of the proc	8313 8314 8400 8401 8402 8403 8404 8405 8406 8407	risual interaction of above Regional interaction and interaction of above Regional interaction. A interaction of a fine recommendation of the recommendati	C110 C111 C112 C113 C200 C201 C202 C203 C204 C205 C206 C207 C206 C209	availability Owner a mengement options and phasing Public inclinities & services compatibility Preservation & maximization of resources Urban function urban frems is Building Treatment Compatible studies of building types & design Melerans & structure of building types & design Melerans & structure of building types & design Melerans & structure of building types & design Visibility requir aments Compatibility with existing Signings & visual pollution controls Alternatives Building land use prototypes
103 104 105 106 107 106 109 110 111 1112 200 201 202 203 204 205 206	Censers A nodes Connectors, increa and interchanges Connectors, increa and interchanges Connectors, increase and services Connectors, increase and services Connectors, increase and services Connectors, increase and contents Adaptionery connectors, inerd, soft Transitional Zondes is listicating—creations, Building prototypes & groupings Urban Transe enalysis Land use For: —Restendinal —Recreational —Recreational —Commercial	8313 8314 8400 8401 8402 8403 8404 8405 8406 8407	risual Interaction of stories Programs and Interaction of Stories Programs, Stutin Commission of Stories Programs, Stutin Commission of Stories Storie	C110 C111 C112 C113 C200 C201 C202 C203 C204 C205 C206 C207 C206 C209	availability Owner a mengement options and phasing Public facilities & services compatibility Public facilities & services compatibility Owner a mengement options and option Building Treatment Compatible States of building types & design Makerians & design Tenture & design Te
103 104 105 106 107 106 109 110 111 200 201 202 203 204 205 205 205	Censers A nooise Connectors, iners auch interchanges Connectors, iners auch interchanges Connectors, iners auch end grant Connectors, iners auch end grant Connectors, iners auch end Adjacency bondstens, nare, oas Coalana Sequence, vens, vettas Adjacency bondstens, nare, oas Coalana Sequence, vens, vettas Adjacency bondstens, nare, oas Coalana Sequence, vens, vettas Adjacency bondstens, nare, oas Coalana	8313 8314 8400 8401 8402 8403 8404 8405 8406 8407 8408 8409 8410	risual interface and interaction of above Regional interface and interaction of above Regional interface A meteraction. Interface and interaction and interact	C110 C111 C112 C113 C200 C201 C202 C203 C204 C205 C206 C207 C206 C209	availability Owner a mengement options and phasing Public facilities & services compatibility Public facilities & services compatibility Owner a mengement options and option Building Treatment Compatible States of building types & design Makerians & design Tenture & design Te
103 104 105 106 107 106 109 110 111 200 200 203 204 205 206 207 208	Censers A noose Connectors, increas and interchanges Connectors, increas and interchanges Connectors, increas en experience Connectors, increase experience Connectors, increase experience Connectors, increase experience Connectors, increase Connectors Connecto	8313 8314 8400 8401 8402 8403 8404 8405 8406 8407 8408 8409 8410	risual interface and interaction of above Regional interface and interaction of allower Regional interface & interescion interface and interaction interface. A interescion and poss, sitematics and consists and consists and consists for "Wester-subory, heatment, storage, distribution "Seemer-coolection resument, osposition "Seemer-coolection Interescion Seemer-coolection Designers, strategists", "Seemer-coolection parents, strategists", "Seemer-coolection Designers, strategists and control of the communications obodies waster-coolection, Irangonic and opposition operations and other communications—Solider waster-coolection, Irangonic and disposal —Postupio controls are noted waster-coolection, Irangonic and Solider waster-coolection, Irangonic professional Confession and Confe	C110 C111 C112 C113 C200 C201 C202 C203 C204 C205 C206 C207 C206 C209	availability Owner a mengement options and presing Pouler beclines & services compatibility Unban function and the services Building Treatment Comparative studies of building types & design Materians & studies of building types & design Proportions & scale Visibility requirements Compatibility amenia Compatibility and services Altarnatives scale portotypes Housing —Site pain type—cluster, P U.D., site & service Unit & building hosps, slot & poil use
103 104 105 106 107 106 109 110 1112 200 201 202 203 204 205 208 209	Censers A noose Connectors, Iners and Interchanges Connectors, Iners and Interchanges Connectors, Iners and Interchanges Connectors Iners and Interchanges Connectors Iners and Interchanges Adjacency concisions, Iners, 2017 Adjacency concisions, Iners, 2017 Adjacency concisions, Iners, 2017 Adjacency concisions, Iners, 2017 Building prototypes & groupings Under frame inaryos Litera frame inaryos Litera frame inaryos Litera frame inaryos Inde due For: —Residential —Recreational —Recreational —Adjacelurial	8313 8314 8400 8401 8402 8403 8404 8405 8406 8407 8408 8409 8410	risual Interaction of above Regional interaction and interaction of above Regional interaction. Interaction Intera	C110 C111 C112 C113 C200 C201 C202 C203 C204 C205 C206 C207 C206 C209 C300 C301 C301a	availability Chindric Interlogement operating presently Chindric Interlogement operation and interlogement of the Interlogement of Interlogem
103 104 105 106 107 106 107 106 109 111 111 111 200 201 202 203 204 205 206 208 208 209 210	Censers A nodes Connectors, ines and interchanges Censerors, ines and interchanges Censerors, ines and interchanges Censerors, ines and mythin Censerors, ines and mythin Censerors, ines and censer ratios Schale sequence, veex, vetas Adacency condectors, raed, soft Transitional zones de illuschiny—crectors, signage, and vetaal polution September of the censerors Septembe	8313 8314 8400 8401 8402 8403 8404 8405 8406 8407 8408 8409 8410 8500	risual interface and interaction of above Regional interface and interaction of above Regional interface & interestic interface interfac	C110 C111 C112 C113 C200 C201 C202 C203 C204 C205 C206 C207 C206 C209 C301 C301a C301a	availability Owner a mengement options and phasing Public lacities & services compatibility Charles & services compatibility Charles & services compatibility Charles & services compatibility Building Treatment Companiance studies of building types & design Makerians & structure Tensure & color Tensure
103 104 105 106 107 107 107 108 109 110 111 111 200 111 111 200 200 200 200	Censers A nocise Connectors, increa and interchanges Connectors, increa and interchanges Connectors, increa and interchanges Connectors increases Connectors Connecto	8313 8314 8400 8401 8402 8403 8404 8405 8406 8407 8408 8409 8410 8500 8501	risual interaction of above Regional interaction and interaction of above Regional interaction. A interaction interaction interaction and posses, elementary Regional Access to and quality of service lecentees for "Visite"—above, heatment, storage, distribution—Selement-above, heatment, storage, distribution—Selement-above, heatment storage, distribution—A control of the selection of selection	C110 C111 C112 C113 C200 C201 C202 C203 C204 C205 C206 C207 C206 C209 C300 C301 C301a C301a C301a	availability Chivine of mengineers ordered and phasing Chivine of mengineers commission Preservacion & maximization of resources Urban function ruban frem Int Bullding Treatment Compassive structes of busing types & design Treatment & cours Treatment & cours Proportions & scale Visibility require and portion ordered Springe & visibility profusion Springe & visibility profusion Springe & visibility profusion Springe (Public Proportion) Springer (Public Propo
103 104 105 106 107 107 106 109 111 111 111 111 111 111 111 112 200 200	Censers A noose Connectors, iners and interchanges Connectors, iners and interchanges Connectors, iners and interchanges Connectors and interchanges Connectors and interchanges Connectors	8313 8314 8400 8401 8402 8403 8404 8405 8406 8407 8408 8409 8410 8500 8501	risual Interaction of above Regional interaction and interaction of above Regional interaction. Interaction Intera	C110 C1111 C112 C112 C113 C200 C201 C202 C203 C204 C205 C207 C206 C207 C206 C207 C207 C206 C209 C301 C301a C301a C301a	availability Owner a menigement options and phasing Public facilities & services compatibility Public facilities & services compatibility Companity Public facilities & services compatibility Building Treatment Companities studies of building types & design Malenas & studies of building types & design Malenas & studies of building types & design Malenas & design Facilities & design Fa
103 104 105 106 107 106 107 110 111 111 200 201 201 202 203 204 205 206 207 208 209 211 212 213 214	Censers A nocise Connectors, increa and interchanges Connectors, increa and interchanges Connectors, increase and services Connectors increase Connectors increase Connectors Co	8313 8400 8401 8402 8403 8403 8405 8405 8406 8409 8410 8500 8501 8502 8503 8504	risual interface and interaction of above Regional interface and interaction of above Regional interface & interescon interface A interescon and posses, elementary Regional Interest Access to and quality of service legisless for — Walter — Budden Interescond	C110 C111 C112 C113 C200 C201 C202 C203 C204 C205 C206 C206 C209 C301 C301a C301a C301a C301a C301a C301a	availability Owner a mengement options and presure Proper license & surveyers compatibility Proper license & surveyers compatibility Unban functions and surveyers Building Treatment Comparative studies of building types & design Materiana & studies of building types & design Proportions & scale Visibility requirements Compatibility amenia Compatibility and mens Compatibility and positive controls Alternative Building land use profetypes Housing —See pan type—cluster, P U.D., site & service —Programming specie for user necess, amenia —Programming specie for user necess, amenia professions to circulation & unities systems —Realizonship to circulation & unities systems —Bealizonship to circulation & prasing —Bealizonship of pression & prasing —Bealizonship of prasing
103 104 105 106 106 107 106 109 111 1112 200 201 111 200 203 204 205 205 206 207 208 209 211 212 213 214 215	Censers A noose Connectors, iners and interchanges Connectors, iners and interchanges Connectors, iners and interchanges Connectors and a series and a series Connectors and a series Connectors Conne	8313 8400 8401 8402 8403 8403 8404 8405 8406 8409 8410 8500 8501 8502 8503 8504 8505 8506	risual interface and interaction of above Regional interface and interaction of above Regional interface & interaction Programs, future demands and goes, sterratives, Access to and quality of service legisless for —Water—Access to an adjusty of service legisless for —Water—Access to an adjusty of service legisless of Service—Conference of Service—Co	C110 C1111 C112 C113 C200 C201 C202 C203 C204 C205 C206 C207 C206 C207 C206 C209 C301 C301a C301a C301d C301	availability Chine's mengineer opense and present Chine's mengineer opense and present Presentation & Rawmation of resources Urban function urban frem Int Building Treatment Comparative studies of building types & design Treatment & Court Proportions & scale Violating require and extension Landiscland & stiling Signinge & visual portuon controls Alternative Building tand use prototypes Housing Signinge Availability of prototypes Signinger
103 104 105 106 106 107 106 109 111 1112 200 201 111 200 203 204 205 205 206 207 208 209 211 212 213 214 215	Censers A nocise Connectors, increa and interchanges Connectors, increa and interchanges Connectors, increase and services Connectors increase Connectors increase Connectors Co	8313 8314 8400 8401 8402 8403 8404 8405 8406 8407 8408 8408 8410 8500 8501 8503 8503 8504 8505	risual Interaction of shore Regional interaction and interaction of shore Regional interaction interaction. Interaction interaction interaction interaction and interaction an	C110 C111 C112 C113 C200 C201 C202 C203 C204 C205 C206 C206 C206 C206 C206 C206 C206 C206	availability Owner a mengement options and phasing Public lacinities & services compatibility Chiver a mengement options are provided to the company Chivan function under items in Building Treatment Companiance studies of building types & design Makenas & structure Tensura & color Ten
103 104 105 106 106 107 106 109 111 1112 200 201 202 203 204 205 205 207 209 209 209 211 211 211 211 211 211 211 211 211 21	Censers A noose Connectors, increa and interchanges Connectors, increa and interchanges Connectors, increase and service and service Connectors and service and service Connectors and service Connectors and service Connectors Connec	8313 8400 8401 8402 8403 8403 8404 8405 8406 8409 8410 8500 8501 8502 8503 8504 8505 8506	risual interface and interaction of above Regional interface and interaction of above Regional interface & interaction Programs, future demands and goes, sterratives, Access to and quality of service legisless for —Water—Access to an adjusty of service legisless for —Water—Access to an adjusty of service legisless of Service—Conference of Service—Co	C110 C111 C112 C112 C113 C200 C201 C202 C203 C204 C205 C205 C205 C206 C207 C206 C207 C206 C301 C3011 C	availability Chine's mengeneric oceans and posaning Chine's mengeneric oceans and posaning Chine's mengeneric oceans and posaning Preservacion & maximization of resources Urban function rugar terms if Building Treatment Comparative studies of building types & design Teature & color Proportions & scalar Valority require automatic Landiaction & stime Springe & visual portuon controls Altarnative Building tend use prototypes Housing Edition of the prototypes Housing Proportion Species for Use Proportion Species for use Programming Species for use meres, amenite schedules & family composition Perogramming species for user neces, amenite Scheduling though the prototypes Building design engineering & pressing —Broughamming species for user neces, amenite —Broughamming species for user neces, amenite —Scheduling design engineering & pressing —Broughamming species with educational A neas —Programming spaces with educational A neas
103 104 105 106 106 107 106 109 111 1112 200 201 202 203 203 204 205 205 206 209 211 211 211 211 211 211 211 211 211 21	Censers A nocise Connectors, increa and interchanges Connectors, increa and interchanges Connectors, increa and interchanges Connectors increased in the control of the con	8313 8314 8400 8401 8402 8403 8404 8405 8406 8407 8408 8409 8410 8501 8501 8502 8503 8504 8505 8508 8508	risual interaction of above Regional interaction and interaction of above Regional interaction interaction interaction. Programs, stuting carried to the Access to and quality of service receives for "Wester-Access to and quality of service receives for "Wester-Access to and quality of service receives for "Wester-Access to and quality of service receives for "Selection Conference, "Selection Conference, "Selection Conference, "Selection Conference," Selection Conference, "Selection Conference, "Selection Conference, "Selection Conference, "Selection Conference, "Selection," Interport and disposal "Poblation conference, "Selection," Interport and disposal "Poblation conference, "Selection," Selection, "Selection, "Sel	C110 C111 C112 C113 C200 C201 C202 C203 C204 C205 C206 C207 C206 C207 C301 C3011 C3011 C3011 C3011 C3011 C3011 C3011 C302 C302 C302 C302	availability Owner a mengement options and phasing Pouler beclines & america compatibility Chiner a mengement options and produce Urban function urban frame Int Building Treatment Companiance studies of building types & design Materians & studies of building types & design Proporting amenia Companionly with existing Landschand & souther Programming studies of building types Proporting special for use —Programming special for use —Programming special for use freest, ameniae schedules & family composition —Realizones to a creditation of a building system —Building design enginesting & phasing Education and headin —Programming space with declasional & nead system goals meets and schedule Frogramming space with declasional & nead system goals meets and schedule Frogramming space with declasional & nead system goals meets and schedule Frogramming space with declasional & nead system goals meets and schedule Frogramming space and schedule Frogramming space and schedule Frogramming space with declasional & nead Frogramming space and schedule Frogramming space with declasional & nead Frogramming space with de
1 03 1 04 1 05 1 106 1 107 1 1	Censers A nodes Connectors, increa and interchanges Connectors, increa and interchanges Connectors, increa and interchanges Connectors increases Connectors increases Connectors increases Connectors	8313 8400 8401 8402 8403 8403 8404 8405 8406 8409 8410 8500 8501 8502 8503 8504 8505 8506	risual interface and interaction of above Regional interface and interaction of above Regional interface & interaction Programs, future demands and goes, sterratives, Access to and quality of service legisless for —Water—Access to an adjusty of service legisless for —Water—Access to an adjusty of service legisless of Service—Conference of Service—Co	C110 C111 C112 C112 C113 C200 C201 C202 C203 C204 C205 C205 C205 C206 C207 C206 C207 C206 C301 C3011 C	availability Chine 1 menginent openes and preseng Chine 1 menginent open companies Presentation 3 maximization of resources Urban function urban farms lif Building Treatment Companies succes of building types & design Treatment & Court Proportions & scale Visibility requirements Landischard & sling Springe divisibility provided to the court Building to the court of the court Springe divisibility provided to the court Building tand use prototypes Housing — the court of the court of the court — the court of the court of the court — the court of the court of the court — and source of the court — and source of the court — the court of the court of the court of the court — the court of the court of the court — the court of the court of the court — the court of the court of the court — the court of the court of the court — the court of the court of the court — the court of the court of the court of the court — the court of the court of the court of the court — the court of the court of the court of the court —
1 03 1 04 1 05 1 104 1 105 1 106 1 107 1 106 1 107 1 106 1 107 1 106 1 107 1 1	Censers A noose Connectors, iners and interchanges Connectors, iners and interchanges Connectors, iners and interchanges Connectors and interchanges Connectors and interchanges Connectors	8313 8314 8400 8401 8402 8403 8404 8405 8406 8407 8408 8409 8410 8501 8501 8502 8503 8504 8505 8508 8508	risual interaction of above Regional interaction and interaction of above Regional interaction interaction interaction. Programs, stuting carried to the Access to and quality of service receives for "Wester-Access to and quality of service receives for "Wester-Access to and quality of service receives for "Wester-Access to and quality of service receives for "Selection Conference, "Selection Conference, "Selection Conference, "Selection Conference," Selection Conference, "Selection Conference, "Selection Conference, "Selection Conference, "Selection Conference, "Selection," Interport and disposal "Poblation conference, "Selection," Interport and disposal "Poblation conference, "Selection," Selection, "Selection, "Sel	C110 C111 C112 C113 C200 C201 C202 C203 C204 C205 C206 C207 C206 C207 C301 C3011 C3011 C3011 C3011 C3011 C3011 C3011 C302 C302 C302 C302	availability Owner a mengement options and phasing Public lacinities & services compatibility Chief a services compatibility Chief and a services compatibility Chief and a services compatibility Chief and a services compatibility Building Treatment Compatible and a services of building types & design Makeriana & structure Teature & color Teature &
103 104 105 106 107 107 108 110 110 111 111 111 111 111 111 111	Censers A nocise Connectors, increa and interchanges Connectors, increa and interchanges Connectors, increa and interchanges Connectors increase and interchanges Connectors increases Connectors increases Connectors increases Connectors increases Connectors increases Connectors increases Connectors Connector	8313 8314 8400 8401 8402 8403 8404 8405 8406 8407 8408 8408 8501 8501 8501 8502 8503 8504 8505 8506 8507	risual interaction of above Pregional interaction and interaction of allower Pregional interaction and interaction interaction. The pregional interaction and possessing and an advantage and access to and quality of service learning of a present accessing an adjustment of the present accessing an adjustment of the present accessing an adjustment of the present of a pr	C110 C111 C112 C113 C200 C201 C202 C203 C204 C205 C206 C207 C206 C207 C301 C3011 C3011 C3011 C3011 C3011 C3011 C3011 C302 C302 C302 C302	availability Chine of menigheeric obcomes and phasing Chine of menigheeric obcomes and Chine of menigheeric obcomes and Presentation of measures Presentation of measures Presentation of measures Unban function under internal int Building Treatment Comparative studies of building types & design Meleriana's situations Proportions & scale Visibility requirements Comparationly with enrising Comparationly with enrising Comparationly with enrising Comparationly with enrising Equility of the comparation of th
1 03 1 04 1 05 1 06 1 1 07 1 07 1 07 1 07 1 07 1 07 1	Censers A noose Connectors, iners and interchanges Connectors, iners and interchanges Connectors, iners and interchanges Connectors and interchanges Connectors and interchanges Connectors	8-313 8-314 8-400 8-401 8-402 8-403 8-404 8-405 8-406 8-407 8-408 8-409 8-409 8-409 8-500 8-501 8-502 8-503 8-504 8-505 8-504 8-505 8-504 8-505 8-504 8-505 8-504 8-505 8-504 8-505	risual interaction of above Regional interaction and interaction of above Regional interaction interaction interaction. Regional interaction and interaction interaction and i	C110 C1111 C112 C112 C200 C201 C202 C202	availability Chine's mengineer openes and present Chine's mengineer openes and present Presentation & Rawmation of resources Urban function urban frem fit Building Treatment Comparative studies of building types & design Treatment Comparative studies of building types & design Treatment Comparative studies of building types & design Treatment Comparative studies Proportion & scale Violity' require americans Landiaction & stilling Sangae & visual portuon controls Alternative Building tadd use prototypes Housing Sangae & visual portuon controls Alternative Building tadd use prototypes Housing -Step pan type—cluster, P.U.D., site & service stilling Landiaction & prototypes Housing -Step pan type—cluster, P.U.D., site & service stilling -Programming species for user necks, amende -Programming space with educational A nead -Programming space
1 03 1 04 1 05 1 06 1 1 07 1 07 1 07 1 07 1 07 1 07 1	Censers A nocise Connectors, increa and interchanges Connectors, increa and interchanges Connectors, increa and interchanges Connectors, increase and content and connectors Connectors and connectors	8313 8314 8400 8401 8403 8403 8403 8405 8407 8500 8501 8502 8503 8504 8505 8507 C	risual interaction of above Preprint interaction and interaction of above Preprint interaction interaction interaction. A interaction interaction interaction interaction interaction and interaction interaction. Programs, stuting common and advances to an adjust of service learning of Seneral-color-tion relations interaction. Seneral-color-tion relations interaction. Interaction interaction and interaction. Interaction interaction interaction. Interaction interaction interaction. Interaction interactions interaction. Interaction interaction. Interaction interaction. Interaction interaction. Interaction interaction. Interaction interaction. Interaction interaction. In	C110 C1111 C112 C112 C113 C200 C201 C201 C201 C201 C201 C201 C201	availability Owner a mengament options and phasing Poulor bottlers & services compatibility Chief a services compatibility Unban function under Irema Int Building Treatment Comparative studes of building types & design Materians & studes of building types & design Proportions & scale Vasibility requirements Compatibility amenia Compatibility and services Autoriatives Materials & studes Ma
103 104 105 106 106 107 106 107 106 107 107 107 107 107 107 107 107 108 109 109 109 109 109 109 109 109 109 109	Censers A nocise Connectors, increa and interchanges Connectors, increa and interchanges Connectors, increa and interchanges Connectors, increase and content and connectors Connectors and connectors	8313 8314 8400 8401 8402 8403 8403 8405 8405 8407 8500 8501 8500 8504 8503 8504 8509 8507 C	risual Interaction of shore Preprint Interaction and Interaction of Store Preprint Interaction Interac	C110 C1111 C112 C112 C200 C201 C202 C202	availability Chive a mengipment ochrona situl phasing Chiver a mengipment ochronalisation Presentation & Raumzalian of resources Urban function urban irema fit Bullding Treatment Comparative structes of building types & design Watering & Studies of building types & design Watering & Studies Proportions & scale Visibility require all portions Compatibility with evisibility Proportions & scale Visibility require all portion controls Alternative Building land use prototypes Housing Lind of the prototypes Housing the prototypes Housing the prototypes Housing the prototypes Building system pipes and selection —Building system pipes and selection —Building system pipes and selection —Prototype overlopment for vanous livesis —Prototype overlopment for vanous livesis —Prototype overlopment for vanous livesis —Studies of the prototypes Lind of the prototypes Lind of the prototypes Studies of the prototypes Building system pipes and selection —Prototype overlopment for vanous livesis —Prototype overlopment for vanous livesis —Control of the prototypes Studies of the prototypes Studies of the prototypes Lind of the prototypes Lin
103 104 1056 107 107 107 107 107 107 107 107 107 107	Censers A nocise Connectors, ines and interchanges Connectors, ines and interchanges Connectors, ines and interchanges Connectors, ines and interchanges Connectors in the control of the	8313 8314 8400 8401 8402 8403 8406 8407 8408 8408 8409 8500 8501 8502 8503 8506 8507 C	risual Interaction of above Regional interaction and interaction of above Regional interaction interaction. Interaction interaction interaction interaction interaction and in	C110 C1111 C112 C112 C113 C200 C201 C201 C201 C201 C201 C201 C201	availability Owner a mengament options and phasing Poulor bottlers & services compatibility Chief a services compatibility Unban function under Irema Int Building Treatment Comparative studes of building types & design Materians & studes of building types & design Proportions & scale Vasibility requirements Compatibility amenia Compatibility and services Autoriatives Materials & studes Ma
103 104 105 106 107 107 107 107 107 107 107 107 107 107	Censers A noose Connectors, iners and interchanges Adjacency conclorers, nard, sort Connectors, iners, and connectors, Sonale sequence, version variety Adjacency conclorers, nard, sort Adjacency conclorers, nard, sort Sonales, and version Buiding prototypes & groupings Uctor frame inaryos Lichar frame inaryos Adjacentification —Adjacentification	8313 8314 8400 8401 8402 8403 8403 8404 8405 8409 8409 8500 8501 8500 8503 8504 8509 8509 8509 8509 8509	risual interaction of above Pregrams and interaction and interaction of above Pregrams fairness & interaction interaction interaction & interaction interaction interaction and ones, elementure Programs, stutire demands and goals, elementure Programs, stutire demands and goals, elementure Selection (applicable of the programs of the	C110 C1111 C112 C113 C200 C201 C202 C203 C204 C203 C204 C301 C300 C301 C301 C301 C301 C301 C301	availability Chine's menigement ocience and phearing Chine's menigement ocience and phearing Preparagion & maximization of resources Urban function's urban resources Proportions & scales Visibility require amening Landschond & stiling Springe & visibility preparagiones Altarnatives Building tade use prototypes Housing Urban Springer & visibility resources Housing Urban & Duiding types, bot & plot use —Programming scales with order forests, amenite —Building system types, and selection —Building system types and selection —Building system types and selection —Building system registering of brising —Programming scales with educational & near system goals eness and schedules —Programming scales with educational & near system goals eness and schedule —Prototypes enessed and schedule —Programming centers, negoticals —Programming centers, negoticals —Institutional reculties and outbille uses —Programming colliding design, engineering and education Institutional reculties and outbille uses —Programming building design, engineering and publishing —Culturias symbolic, or crizing centers
103 104 105 106 107 107 107 107 107 107 107 107 107 107	Censers A noose Connectors, increa and interchanges Connectors, increa and interchanges Connectors, increa and interchanges Connectors are a noose of the control of the co	8313 8314 8400 8401 8402 8403 8406 8407 8406 8407 8501 8501 8502 8503 8504 6505 8507 C	risual Interaction of above Pregrams, Junior Communication of Interaction of Interaction I	C110 C1111 C112 C113 C113	availability Owner a mengement options and phasing Poulds funities & services compatibility to Chiefe & services of building types & design Waterians & structure resolution of the Chiefe & Services of
103 104 105 106 107 107 107 107 107 107 107 107 107 107	Censers A nocise Connectors, increa and interchanges Connectors, increa and interchanges Connectors, increa and interchanges Connectors, increase and interchanges Connectors and increase and increase Connectors and increase Connectors and increase Connectors Conne	8313 8314 8408 8409 8401 8405 8405 8404 8405 8406 8407 8500 8501 8501 8501 8501 8501 8501 8501	risual interaction of above Regional interaction and interaction of above Regional interaction interaction interaction. The regional interaction interaction interaction interaction interaction and regional regi	C110 C111 C112 C113 C112 C113 C112 C113 C112 C113 C112 C113 C113	availability Chiver a menigheeric obcides and phasing of chiver a menigheeric obcides analysis of chiver a menigheeric obcides analysis of the properties o
103 104 105 106 107 107 107 107 107 107 107 107 107 107	Censers A noose Connectors, increa and interchanges Connectors, increa and interchanges Connectors, increa and interchanges Connectors are a noose of the control of the co	8313 8314 8400 8401 8402 8403 8406 8407 8406 8407 8501 8501 8502 8503 8504 6505 8507 C	risual Interaction of above Pregrams, Junior Communication of Interaction of Interaction I	C110 C1111 C112 C113 C113	availability Owner a mengement options and phasing Poulds funities & services compatibility to Chiefe & services of building types & design Waterians & structure resolution of the Chiefe & Services of

- Retail and commercial facilities C304 C304a -Community commercial caniers
 -Local convenience services
 -Shopping mails, marketing places and bazers C304b C304c C3D4rt -Regional malis, marketplaces and bazaars Central business centers
 Office and administrative areas CZOA C304 Transient residential accom-C304q CSCAN - Enterteroment C365 on and enumeroment facilities Open space systems—parks and recreation C305b -Praygrounds C305c -- Gymnasıums -- Tracks C2054 C3054 C305t C305a -Poeis, rinks, courts -Azanas and athletic complexes —A/ants and au mon-—Stadium's Raigion and community organization facilities —Raigious and community buildings for fown C305h C300 C306a center and neighborhoods C307 Industrial lacilities -Distribution canters C307b -Storage lackfles C307c - I ight manufacturing, service industry cottage industry Heavy industries C307d C308 Agricultura
 —Existing and reversed use C308a -Distribution centers -Storage tacilities C3086 C308d -Location C308e -Weier availability -Productive capacity -Livestock
- Proponion of percentage of elec-Priorities or emphasis of elements
- The interaction of all the elem of consideration above 0.300 0301 Degree of miduality of goals and objectives
- D302 Coordination connerst
- Continue and comparability 0400 The Character or image of the total place
- D401 D402 Physical and spiritual magesbility Richness and vanety to simplicity and clarify Chaos and insecurity to blandness and boredom
- D500 The Well-being of the Indivi
- D501 Physical and osvendlogical 0502 Selfweatrzation

D305

- DEDO The Well-being of excial proupings
- 0601 Physical and osychological D602 D603 Activity groupings, ame Validity of groupings
- D604 Purpose and fultiliment 2020 Legat, governmental and social constraints

Developing a Methodology

in theology no one religion holds the key to all knowledge—so it is with planning theories. Planning thegres prolitarate because planning methodologie fend to evolve in response to specific and unique sets of problems. This is as it should be

The best planning theory is, in fact, the hybrid

As each whan eres and each set of problems is different a methodology about not be a docuration imposition of a monolithic and inflexible thought process. The best plenning theory is, in fact, the hybrid-a responsive adaptation of the best characteristics of many proven methods.

A thorough understanding of existing methods and of their strengths and inedequacies is necessary when planning with incrementel adaptation, optimi zation, structural analysis, or other eccepted methods. Necessary too, however, is the creetive ability of a team to make adjustments or, when necessary, to devise totelly new proceduras through which to evolve e plen, or better yet, a mathod of growth end change for an urban eree.

The choice of the appropriate set of planning techniques or methods is conditioned upon the prevailing locel conditions and needs end upon the available base of statistical data end other information. For example, techniques applicable to highly industrialized countries (whera the date base is broad end historically comprehensive) are usually inappropriete to countries or erees that have a less well-developed information system. When needs for basic amenities, such as roads, weter, and housing, are pressing and information is lacking, planning must aim at

-Forestry n Urben Quality of Life

The Synthesis, or how the parts come togeth

The Composition or mix of all the elements of consideration above D280

echieving results rapidly without weiting for extensive date

in the absence of an extensive dete base, it is possible to rely on international atendards and rules of thumb, comparative or cross-netional enalysis. end direct analysis augmented by carefully salected sample survays to produce results with the speed and sensitivity required. Conversely, to spend an inordinate amount of time in less-developed areas or countries assembling the extensive date base normalify available to planners in highly developed areas will only dalay the realization of results. Due to the unpredictable nature and difficulties of standardizing data gatharing end analysis, there are often lengthy pelays and, all too frequently, indefirite, misleading, or inconclusive information results when the area being studied is undergoing a rapid transition or change

To quote from the conclusions and recommendations of the United Nations Group of Exparts on Metropolitan Planning and Development:

Statistical and other information concerning the economic, social and physical structure of a metropolitan area and its probable evolution is clearly essemial for comprehensive planning. It was appredated that the relatively less developed areas, in particular, need to develop their statistical and research sarvices and, consequently, augment the supply of trained personnel for this purpose. How ever the lack of such adequate spouces spould not precluda a program of immediate ection with regard to metropolitan planning and development if should be possible at the outset to prapare some presminary plans, at least in schematic form outsining the more urgant objectives, it being understood

that these would be periodically reviewed and revised es the statistical and research servicas improve and more precisa deta and information became availeble.

A comprehensive scale technique for action planning

Although the notions of "Action Planning" and Intermediata Aporpach to Plenning" have been discussed at length on the academic level and in fragementary subject arees, a comprehensive scale technique has not yet been developed. In developing the methodology to guide the speedy prepara tion of a wide range of immediate action plans (from regionel master planning for seven urban erees in Nigena to downtown action plans for American cities end towns) we have evolved of ECODESIGN a plenning process, a method of working, that is flexible in adjusting to varying levels of information and in accommodating a variety of planning stretegies. Yet, as a process, it imposes the required plenning order and becomes a structure to control the more intuitive plenning stretegias.

A structure is control the more intuitive planning strategies

This process has been explained in its simplified outline form and diagramed (pp. 106-125) throughout this chapter. However, when applying tha procedure to mora complex proplems we have expanded upon the basic process and incorporated renous new and required techniques through a "Methodology Compatibility" inventory analysis

*Planning of Metropolian Areas and New Towns, 1969

Inventory of Techniques

in the section, "Technique: Design Methods," from his book, Sits Planning, Kevin Lynch gives a thorough invantory of current planning methods For purposes of explaining the inherent flexibility and versatility of the planning procedure that has been evolved through ECODESIGN's work in urban and rurel design, we will expand on this inventory end summanze it, while taking some additional editorial liberties in commenting on each technique's appropriateness and feilings for e specific context This inventory of plenning techniques follows:

Incremental Adaptation

incrementel edaptation of solutions previously used (stereotypes) is perhaps the most pervasive and often used technique. It is most useful "when changes in the external situation are slow relativa to tha paca of environmental decision-whan objectives behevior, (echnology, motivations, physical settings are all stable. In addition, the evaluable stereotypes must have some reasonable relation to the problem This is clearly not a methodology appropriete to newly urbanizing or rapidly growing areas.

Optimizing the essential function (linear programming)

Planning must always move constantly between the general and the specific. This method proceeds from the general structure to the specific details of a prodlem. One abstracts the essential function of an environment. "then imaginmo e form that will satisfy this general function as well as possible. one then agaots this form to satisfy other functions and constraints. This is also called Linear Programming. In the case of essential human needs

such as water, roads, or infrastructure, this programming concept provides an important and direct impetus, but one that must be carefully guided.

Optimizing general functions

The "osemizing of functions" is a more with and secure method when it is used as gain of a more secure method when it is used as gain of a more comprehensive and general design strategy, in early planning stages it points the way not gives programming and design criticine. "This technique is surely correct in pointing to the immortance of purpose or function ... getting right at the heart of a complex problem wherever time is an obsolute dominant function" or functions to be corrected or continued.

The structure of the problem

This is the most physical of planning epocoches and is permost at its stronges in the absence of statistical data. It deals primarily with "possibilities inherent in a physical setting," but other specific proposed in the planning can be dealt with in a physical or spatial manner, such as "political power studura, benerior settings." The strongest advantages in this melhodology lie in the reduced tima elemant, the fact that "suggestions for despin solutions seem for sex immediately out of the problem," and that the data inquire deed not be in statistical form.

Disaggregation

Disaggregation attempts to confront multiplicity (as opposed to coping with complexities) by zeroing in on e critical problem. Here it is assumed that "multiplicity can be managed if it is divided into many parts." These smeller erea units or modules.

however, must be of a size "lerge enough to beal with he important asses of the plan!" The closest analogy is perhaps the English system of lown-plan Ladyust. Its fallules or most marked in developing cournies fend previous British colonies) because its success is beendenful upon a folial planning system. The unit must be a pece litting into a strong enshing master grain for a city and based on rationally accepted behavior criteria for development and intended tilestive.

Design by behavior settings

This is perhapis one of this most currant and smovative sechniques. Basically, an erea is "divided into ralatively independent, stable patterns of customary behavor together with their appropriate orlysical sattings, which are units in time as well as space. These are more logical divisions than privily spatial ones since they follow the grain of the way a place is used." The major failing of this technique would be "single-closus neglect of larger relations" such as the inter-relations of activity partiers, movement patterns, regional influences, act, On the other hand, it does poen the door to more infullivatechniques in the ebsence of a standard data bese.

Breakdown by criteria

To prepare "ideal plans for each of a number of major purposes (access, diversity, cost maintenance, atc.)" is a smiler factor to opinizing e single function, but it is less superficial in mat "corresponences are sought and enforted end conflicts ere avoided (note that fo this point, the technique closely exprovimates the Environmental impect Statement Process) or compromised on some influtive basis of weighing to give solutions some influtive basis of weighing to give solutions.

thet correspond to many criteria at once. The EIS Process, which examines conflicts to be resolved or avoided, is discussed separately in the following section as it is a basic derivetion of the mathodology that is explained in this chapter.

Design decision branching

This very complete planning method "involves the overlapment of forms appropriate to secariate certeal, hough only when the pretens are so linely divided that they are to longer vertical generatives, but are operational statements about what chair actients of form is neverted in a patricular circumconstructed in which seath design prospers of constructed in which seath design prospers of constructed in which seath design prospers of prequirements of only two subdesigns, the mora important conflicts being resolved as early as possible. The first result as a southout held reflects the whole branching chair of suboptimizesions that whole branching chair of suboptimizesions and compromises.

Almough Multiplicity is explicitly dealt with nere, in practice the method is inoperative in terms of time and inebitity to make system-wide reconsiderations in a new light of to change orections midstream. This method is derived trom Notes on Synthesis of Form by Christopher Alexander Because of its comprehensiveness, our adapted methodology attempts to amplify and incorporate this aspect.

Focus on means

"Rether than concentrating on odjectives or on problems, design may proceed from the opposite end. In such a case it will begin by assembling or

imagining possible maens (solutione) to see what they are good for,"

This general category also includes other direct, including but, as yet, non-scientific, unprovable, and thus inconclusive means, such as: 1) community pericipation. 2) shift in context, time, location, or size, 3) synetics appraish. 4) Stanislavsis or Sociatio methods, 5) analogies, personifications, end other gaming simulation, biranstorming, and team approaches. These are valid paths to invention held need to be solidly integrated into a planning process. This integration, in fact, the fast-tracking of flesse means into the folds process, has been a major intent described in this book and in particular, this chapter.

Another group of techniques that would appropriately be categoraed as a "Focus on Mens"; includa 6) Experimental prototypes which can either be a physical simulation or a small-scale that action. These are most useful for small-scale probiem solutions and the learning emphasis is on the monitoring and feed-back.

Sleve mapping

Sever mapping is a simple, straightforward method for aggregating and analyzing complex information patients in a scetal context. The basic notion is that by simultaneously revenity pransparent overlying maps, one is able to see a consansus of separate pieces of information projected onto one final map. This method produces a composite piece of information that is subjective only insammuch as professional interpretation on particular overlays is necessary.

In the typical sieve mapping-site suitability analysis. a site suitability metrix is developed by overlaying mapping of the following types of survey information Soils (Soil types, erosion, permeebility, bearing capacity, shrink-swell or erosion suscaptibility); Gedlogy (Texture and depth to bedrock, ledga, outcropping, deposits, landforms, orientation of foliation, regional feulting and fractures). Hydrology (Streams, flows, flood plains, swales, surficial run-off, subsurface flow, soil yield potential, upland flats, percolation and deoth to watartable is Vegetation (Hardwoods, softwoods, interspersion, spare-danse, wildlife, visual enclosure, limba resources, open field, forest-edge condition); Topographic (Percantaga of stopa, recommended maximums for industrial, residential, or road development); Climate (Warm/cool slopes air flow, solar

Climate (Warm/cool slopes air flow, sola orientation)

All these are overayed as seve process maps of site features to determine the site suitability in terms of available acreage. Fromage, road access, utilities, and acquisition costs. In this way unsuitable areas and most suitable areas for davelonment of particular projects are identified prior to the design of schemable plen alternatives.

This method produces a most important product in the absence of, or in augmenting, a data base in that it aggregates existing physical information into a meaningful and factual form

Computer-eided design

The use of the computer in storing and sorting data for programming, for displaying this date either verbally or graphically has proved to be a valueble

planning tool, which has been discussed in Chaptar 2. However, the computer is only useful when there is a large and complete data base with which to work.

When the data is aveilable, the computer can be used by a creative programment of obselvity the introused by a creative programment of obselvity the interchinques, animated demographic surfaces, the charge of the country of the c

Roots of the Procesa

The background: environmental impact statement— E.P.A., 1970.

Each of the methods discussed under the Inventory of Technique have one fault nocommon: frey are not lotal planning and design processes. They are piecemed stategies and, as planning methodologies, are prone to error and omissions. Elimination of such omissions, however, was one of the major goals of the "Environmental Impect Statement Process" inflowated in 1970.

As the result of the critical end previously unprotected environmental and growth policy situations developing in the United States, the National Environmental Policy Act was developed and, in

spite of its inherent bureaucratic handicaps, if represents the concept of the most comprehensive, if contrioverset, new planning procedure to be devested in any country on the past occase it is innovative because if incorporates several important techniques into e process—the most important techniques techniques being the testing of a "what if" series of alternatives against shifts in context.

As the first planning procedure to evolve from e legal act of Congress, the process, of necessity, had to be constantly tested and loopholes closed. By the same token. This very legal raison d'être began, precedent by precedent, to develop an EIS Process that tended to be less human-oriented and more technicel-oriented. The lagal threat of subjectivity was forcing the emphasis less on planning for human needs end more on quantifiable levels of ecceptance of the more scientifically measurable impacts of air, noise, water pollution traffic, and displacement. The quantifiable impacts that could be measured and then compared to established legal or sefe levels of acceptance of non-acceptance (thus avoiding any threat of subjectivity) meshed too easily and inflexibly with the legal structure from which the EIS Guidelines had been deneraled.

The other major criticism of the EIS Process was that it is wasteful in time, professional energies, and, therefore, money because it was designed to follow, rather than to precede, a proposed plan of development of action.

The process: planning with environmental assessmentaCOGESIGN, 1875

Because several of the most importent Environmental impact Statements in the United States relating to whote utban areas and downform Master. Plans have been understeen the ECODESIGN we were asked by Andrew F. Euston, &r., Urban Design Program Officer, U.S. Department of Housing and Urban Development, to develop an urban besign ES methodology has was responsive to both orolessional and community critiques of the existing governmental ES guidelines.

Our report to the U.S. Department of Housing end Urban Development stated that

The Urban and Rural Planning Process is, or should be, the process of designing with Environmental Assessment. The purpose of the curriant Environmental Impact Statement process is to identify the impacts of a periodual project on the environment and to develop means to minimize adverse impacts and to minimize the beneficial core. Within these goals, the difference between the Regional and Urban Design Process and the Civinormanital Impact Statement process is one of timing—the presing end the additional Design Process and the Civinormanital Impact Statement process is one of timing—the presing end the additional Design Process and the Civinormanital Impact Statement Process is one of timing—the process is followed in the course of Georgian Consuming Reset of Environmental Impact Statement winting after design with be minimized.

Both a Flexible Structure on Which to Plen and a Control Mechanism

The plenning methodology developed at ECOESIGN has proved to be a means of estellishing broader guidelines for the Environmental Impact Statement process through simplified concepts and a clarified procedure. Although it is a systematic process that evolved out of many complex revitalization reports, downtown plans, and environmental impact

studies, it has been simolified to e Work Flow Diagram, a sequenced Outline of Spacific Component Tasks, end a Checklist of Urban and Rural Design Considerations.

Plugging in relevant techniques

The methodology, however, is intended as an equisible structure that would serve simultaneously as a methodology, a schedule of imagor miestones, and a formal for work lesses enumeration. Most importantly, however, we have alternibitation construct a process into winch various techniques can be pupped and utilized as appropriate it is a network through which information and creative plenning input would pass. It includes a checklist and channels designed to avoid some of the pirtalls of oversign of the single-flowage deficiency of single-process and the single-flowage of its solitation of single-process comments are put overly time-consuming, techniques of disapgregation of alternatives.

The four "Impact Areas" (Urben Function, Urban Frame, Urban Farme, Urban Fabre, and Urban Qualify) also serve as a calibrator to guard against overempass such as oll privisced version prophysical and technical version functions are found to the process of the processing inventory can thus find their useful positions within the Impact Areas, depending on the particular planning project needs. For assemble

Urban Function—(Socioeconomic Functions)
Optimizing of particular functions
Breakdown by chiena
Cause: Effect matrices
Dominant factors grid

Shifting of context
Testing of "What if?" alternatives

Urban Frame—(Physical Land Use and Form)
Problem structure
Design lenguage and diagrems
Form (uxtapositions

Sleve mapping process

Spacial localion (with and without computer aid)

Ultran Febric—(Aree Units and Urban Texture)

Urban Febno—(Aree Units and Urban Texture)
Means onentation to spacific problems
Suitability compatibility matrices
Modular development units
Testing of prototypes

Unben Quality—(Beheviorel Petterns end Preferences)
Matrix to check for corrective actions
Design by behavior settlings
Time mapping—operations, schedules, cycles
Brainstorming and gaming techniques
User needs. Community participation techniques

Checks Against Oversights Are Built-In, Cyclical Events

These Impact Areas are set into the process as a work-flow char so that problems of compranens were supported to the process and the process of the process alternatives consideration, and feedback are made more prizerize cyclical events, for example, see sample, and assessment of alternatives are recurring tasks that occur boil is operate. (or prototypical) atternatives and as specified diability atternative and an early stage for example. All of the process and as specified of the prototypical atternatives in an early stage for example. All of from procures a few stages and as specified of the prototypical atternatives are considered and the prototypical atternatives are considered as the process as a few stages and as the prototypical attention and alternatives are the prototypical attention and alternatives are also as the prototypical attention and alternative and according to the prototypical attention and alternative are alternative and as the prototypical attention and alternative are alternative and as the prototypical attention and according to the prototypical according

consuming aspects of the "tree-like path of design" described in Alexander's Notes an Synthesis of Form. The overall intent is that the procedure can be simplified and clarified so as to be understood by a broader professional and lay group while still incorporating the means of dealing with oreast comblexity.

The four impact Areas are also used as conveniant groupings for the checkets and for the final fine-trump procedures, is well as the overell evolutions and statement of impacts when adverse and beneficial impact as identified and means to immunize the adverse impacts or maximize the beneficial are developed. All the impact statement stage the "Matrix to Check for Overtapoing and Accumulative impacts" of the "Matrix to Check for Overtapoing and Accumulative impacts" on the "Matrix to Check for Corective Action of Means to Minimize" (See page 230) would again be a built-in essurement of comprehensenss and a guard against causal and accumulative effects and insk-taking.

The ultimate planning procedure must move constantly from the general to the specific, must constantly cycle new information input and feedback into the process, it must insist on the most scienritic of proof serieties, but stiff allow for and, in lact, insist on the incorporation of intuitive judgments or solutions.

The Prototypes

Functional systems and their prototype components

The elements of consideration involved in confemplating policy programs or plans for the revitalization of cities are overwhelming in their numbers and complex combinations, but the looks for simplification are the systems and their prototypes. With those

tools, it is possible to simplify the component elements of the Urban Functions, Urban Farne, Urban Farne, and even the Quelity of Life to their basic impredients. When reduced to their isolated and most typical essentials, they can be axammed first as an independent system that has a purpose, a method of working (or of not working), and an apparatus, Once the system is made clear, it can be evaluated in terms of its functioning, marticinotining, overloads, and bad connections—and the problem points can their be identified, Prototypes, on the other hand, are useful because they distill and define the essential concepts.

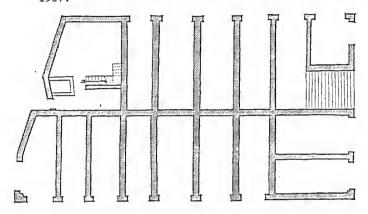
The besic systems that cause cities to function or not to function as they do range from the theoretical such as the governmental system, to the physical such as circulation systems and open space systems.

There era functional systems with both theoretical and physical impacts, such as educational systems, public transportation systems, and the security systems of fire and police.

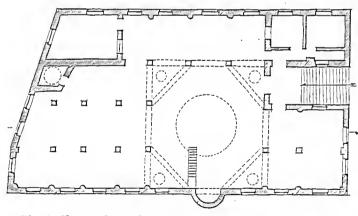
The infrastructure of a city is dependent on odth the management and the physical apparatus of weter systems, sewerage and drainage systems, alectrical utility systems, and road systems.

An-Naser Mosque Plans and Elevation.

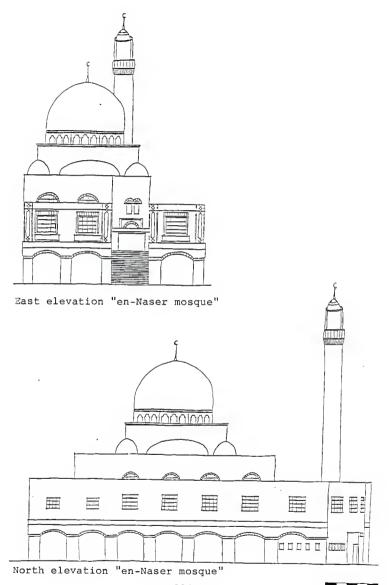
Source: Personal Communication, 5th Year Students, Dept of Architecture, An-Najah National University Nablus, 1987.

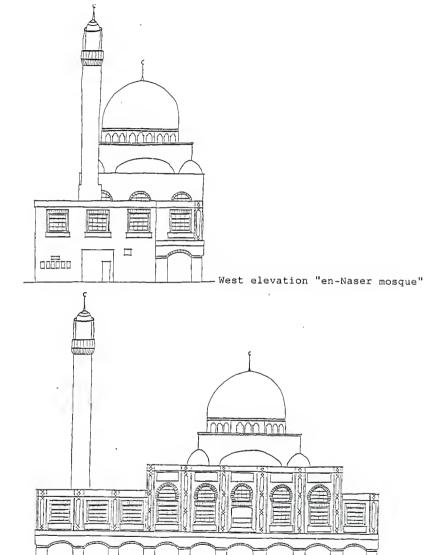


Ground floor plan of en- Naser mosque



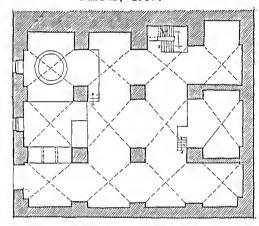
First floor plan of en-Naser mosque





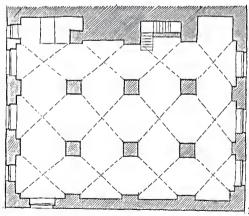
South elevation "en-Naser mosque" 235

Sabanet "Soap Factory" Abdul Hadi.
Source: Personal Communication, 5th Year Students, Dept
of Architecture, An-Najah National University, Nablus, 1987.





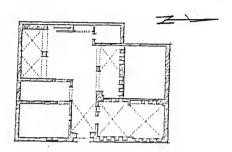
Ground floor plan



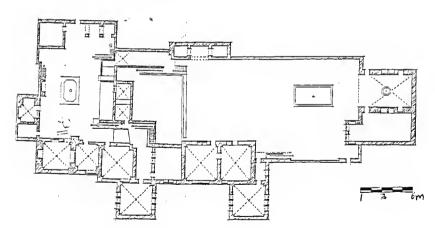
First floor plan

Toqan Palace - Plans & Elevations.

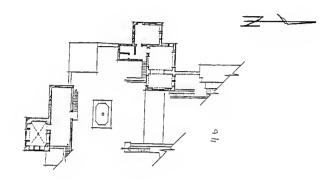
Source: Personal Communication, 5th Year Students, Dept of Architecture, An-Najah National University, Nablus, 1987.



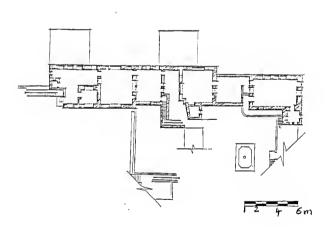
Plan of the entrance "Tuqan palace"



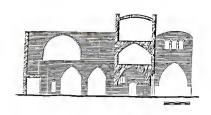
First floor plan "Tuqan palace "

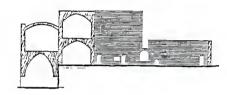


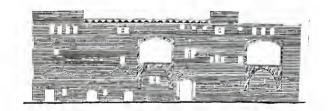
Second floor plan " Tuqan palace "

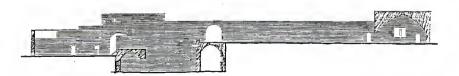


Third floor plan "Tuqan palace "







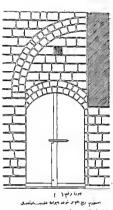


Sections \$ Elevations " Tuqan palace "

Doors and Windows from the Old City of Nablus.

Source: Personal Communication, 3rd Year Students, Dept of Architecture, An-Najah National University,

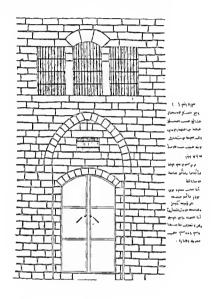
Nablus, 1987.



اسعیدم. این الهای توفد ایوانه دخنیب ارتصاف اما معیدادجهار پیاشتن اینهای طویاد به نامیده سمایید عایماً - امالانیای الهیوء نویدانیاست ناموماده رابهای .

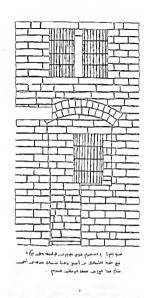


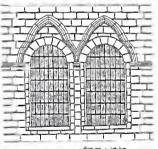
استفرام اموی دید احد اجاسته پاکام نتامونهٔ دارند شایانه و مدار ادبیس بیمم نامونی دارسید سنخده دارید دسته هموای دیرانی ایمال داران ایما نقستایت موید در فدود دارستاید دارایت دارسیای ایمال در در دروسط آدد دارستایده مای زیادرتری تشاویری میگراههای د





مهادی به استان استدام دمون مین میداند. مدان داشت استان استان میساد. مازنمه شد معمد امد داید افزام استان می استان از ایا که می دستشدم معبودی استان امدان استان می استان این این استان این استان استان



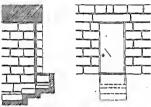


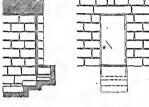
ارض موا اللكل ۾ آواڻ الاؤن علاس منع واسموم ۾ معد عديمه عوالوجه بعد سنة بيت باحه هرصف ، هايتان أبينار عدام الماسترت الإمايد عراجامت فأطية علمتها

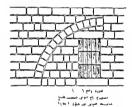


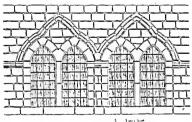
سنويز نقمايت والتسابع كا أنه يؤكر النانيت المدانة والانشالية



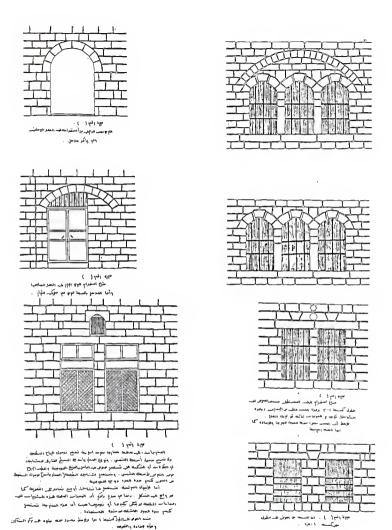


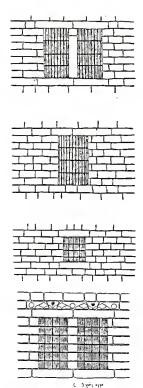




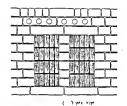


خورة ومع () ولندر المواقعيد ومد أوف هذا فيندر ف عدا هسكان خداداع وأبد هاسهمسو راسيدم كرد التنظيف من الدرسينات التي تعدد المساول المساول فيها والأولاد الماسية منها الارد الماسية منها والمد وهذا المندر نسام حدول مهميان المهمول الرمينية المندرات في عممها ويوسيدات ميسينات المهمي المناطرة (1 - 140)

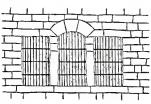




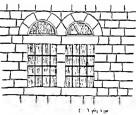
مانود به مواهد با مواهد با مانود با در این دارساوت الاحاز الامان مداه هاشت . . أما مزير العمارة مها الا بري العمامات الاحاز الارمان مداه الامان الامان



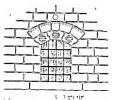
المستموم المعتب المستنام في هائي المشين وجوعل ألك غلخ طدير طام فينية المستدك في المدكون ماللونية لوفور ولاق المام فينة ... الماسسات الحافر المراحل ل



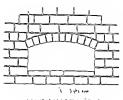
مهاره امه () وع مشكو الاستداد للسائح صل البسمبلا الدهد مراشات والمائد على صيدى مر مشا من كوني المنسسب الأإسال لله توالد 194



مواه الميل () المنفرة هواق مصداداتها مع ودمات المستبعث في تهام المنفوذ الميك المتعلق في المصدات والساب مع من الماليال فسنة أو الحراز المستدم المتمانات المسابقة المسابقة المنافعة المسابقة الم



الإراقية و المستقدم في هميدو والانتقاء و المستقد أحيال مندو تعاليات الدياعية «مشترة لعندا أنهات الماسات الاستقداد المستقدة الاستقداد المستقدة المستقدات ال



بلوي بېټار يامج مخرات في العوز اليدون منح اميان څاللوگ ۲ - ۱





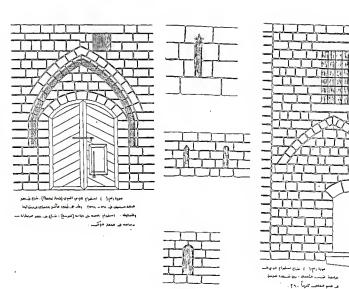


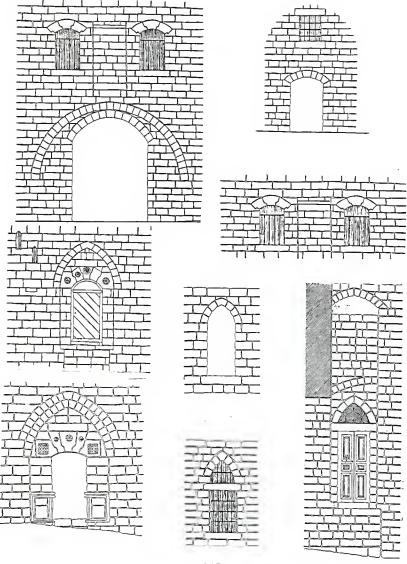
مكوب له (معيم) و تسفع ليونين أويعما الناجه المشاقه وقيد سا الإلاف

حضيع فعج والد الهيهامند الهموج غالباً مد لوطا عما الأبغد

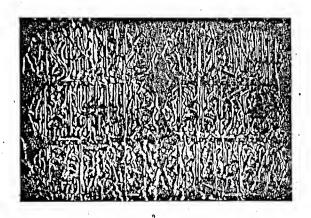
والاسهو أأ الماسع والوجال مسافيج

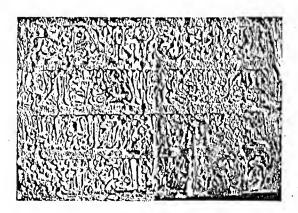
مشاع استرام البان البناء عيد العمد العادب

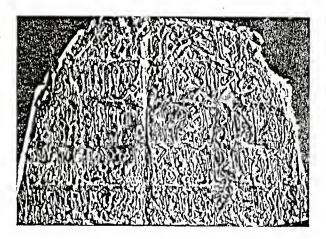


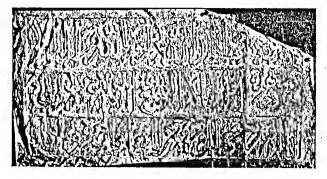


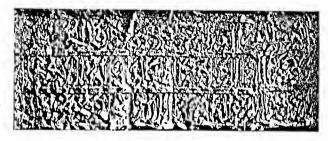
Stone Inscriptions Source: Personal Communication, Zuhir Dobie, Nablus, 1988.



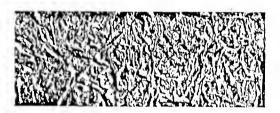




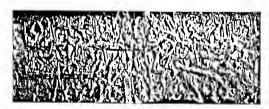




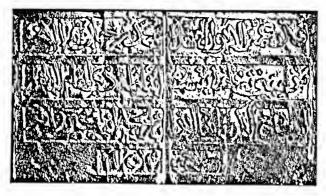
1/



. 16 4







New Documentation Methodology.

ICOMOS, Vol I, C. Barrett Kennedy and friends, Source : Washinton, D.C., 1987.

Background

Bastymmel .

In building anow or adapting the old, architects, planears, and building new strengtod to decipher the engrunts excitocettural and coliums attributes emboding in extent state. In the United States, the legislative communities the total yand development of 1935(R. 1-8.73), which acknowledged the measures which the filtrates State Act of 1935(R. 1-8.73), which acknowledged the measures which the filtrates State Act of 1935(R. 1-8.73), which acknowledged the measures plants, plottagaspits, and other data excitocetts and preserves theorem, plants, plottagaspits, and other data excitors the state of t

The building indexing in a rugor conquencts of the econismy of the Holized Stales, and the entirely building stock separate hot in update capital investment and a fundamental public and the extension is walked. It has been elemented by the America nelection of Arthur and the entire the

One of the most challenging problems (Sering strehteets, desclapers, and public agencies in the administration of the nation's wealth of historic additional administration of the nation's wealth of historic additional administration of the nation's wealth of the sering process of the sering sering processing sering processing sering the sering sering

Flough these took of architectural turrey are capable of yielding bigh quality results, the complexity of the documentation lask often produces a disjuncted array of written

and photographic protection and the control protection and control protection and control protection and the control protection and control protection anative and control protection and control protection and control p

These encounteed require a first perspective, on the response of nutries architectural resource for the communication of cultural resource. The tendented determine of cultural resource for the replication of appropriate contemporary lecturality is not sell for induced the secures, depth, reglicability, cented, secretivally, and economy of large the secure of the resource for the resource of a resour

The application of indegraphic and comment processing technology to the documentation of linetary near adolests the whole process of as believatured univers. The respect to the process of a substitution of linetary near the process of a substitution of linetary near the process of linetary near the linetary near th

The process of documentation begins with a telestion cameta and sideo recorder what used to document as ministrated building, group of buildings, oel indiscapes. Including in the image felt of are a telescence traduit and sincer telescipt, which per not there done much point. Appropriate electrons, floor plant, details, and crisionems date in resolution of on which there is the common date in resolution of on which there is the interest of the common date in resolution of on which there is the interest and the common date in the interest of the common date.

terrationers by a precess called "farme pathons". This entails connecting the wider aspiral Conduct and the second content of the se

The unique videographic sollware pockage that drives the system is called VCAP, the Videographic Computer Ariserd Despire. It consists of two and three dimensional surface properties of the videographic Computer for contract which have the explace just contract for contract programs which have the explace just contraction, and computer that the contract contract the contract contract that the contract contract the contract that the contract contract the contract contract contract that the contract contract the contract contract

In addition to the obvious architectural applications for video tecardings that consist of directionable graphic insiger, videographics can serve as the basis for investigations between the state of the production of the control of

La development in metalle of describeration and price and interpretation, various sizes la development in metalle of describeration, analysis, and interpretation, various sizes a single of rottural resources, from interpreting, the system is configured for excession a single of rottural resources, from interpreting the system is configured for excession control as made critical indexperse. Notional Plant Servers size in Relement, for the system of the sys

Through the ability to economically and comprehensively record (with dimension sideo images) individual historic artifacts and atructures in their environmental leat, this methodology facilitates:

- 1... documentation of cultural resources by merging video images, viribal conumentary, and archival data. Bushings that might not prove economically or logistically feasible to document with extensive hand measurements and drawinge can be efficiently second with the videographic system.
- 2. analysis of resources likeuigh the crinction of information from images relating to building dimensions, materials, code compilance, and stylinic character. Speedic, formation grant control of the c
- La illimidiate of the humor essential and response designs or treatments brough the control of the control image. A most comprehensive understanding of the treatment of the treatment of the control image. A most comprehensive understanding of the control image of the control image. The control image is the control image is the control image is the control image. The control image is the control image is the control image is the control image. The control image is the
- 4. precupiore restrects in the attembly of construction documents, mantenance management purity, and manufacturing tracture. The increprent of a lighty secreticle, noticetors, produced and the construction of a lighty secreticle, or increased and accordance, reshabilistic management of the construction of the construction of the construction of the construction can be made and pleased in the system data between the construction can be made and pleased in the system data between the construction can be constructed in the construction can be constructed in the construction of th

cording to the specifications or matrix-tions coatsumed is the video occurrent.

Methodological parameters for this documentation, system have been shared by constitutions with representative professionable from the professional state of the professional from the professional state of the pattern date to the expect and securing a recording representation to the professional state of the pattern date to the expect and securing a fercording represent the total contrasting techniques are compassible to that of conventants of the professional state of the expectation of the professional state of the expectation of the

Social Survey form, Istanbul. Source: Conservation as Cultural Survival, Aga Khan Award for Architecture, 1978.

the Islanbul rov	ocial Survey Form	n was used to do	cument	17) If not, what is lacking?	m. ti	
reaction.				(8) Are you satisfied with the sunlight and ventilation	49) How often do you sh	op around Beyazu?
GENERAL INFORMATION				your home gets?	50) How often do you shop around Beyoglu? 51) Which of the following would you like to live	
City the survey is conducted in;				Yes: No: Partially:	close to?	ig would you like to live
Country:				19) Which of the following does your house have?	J. Market	
District;				Running water Electricity: Gas:	Gas: Z. Colfee shop 3. Entertainment places	
Street:				Connection to sewage system:		
House number;				Central heating W C:	4 School	
Utilization of Ita building:				Rathtub-shower: Kitchen:	5. Park	
Basement: First floor:				20) Du you have a garden?	6. Bus stop	
Second floor: Third floor:				Yrs Nil 21) If yes, are you satisfied with your garden?	7. Close to all	
Number of rooms: Total area: mf					with your garden.	
2) Please list the residents of this house, starting with					52) Which of the following	re da vau owo?
the head of the lamely;				UTILIZATION OF INTERIOR	J. Car	e se you sam:
None			See	22) Where do you cat at hime? Why?	2. Bicyele	
l				la this space sufficients	3. Motorcycle	
2				23) Which room do you use as the fiving room?	4. Other	
	** *********			Wity? Is this space sufficient?	5. None	
4				24) Where do the parents sleep? Why?	(1) Do you plan to numb	ase any of the above that you
5				is this space sufficient?	. don't have?	see any or the above that you
6				25) Where do the children sleep? Why?		nich one(s)?
Aze	Birthplace	Education)s this space sufficient?	No: WI	nen unetit
1		*********		26) Where do the grandparents—if any—sleep?		ly?
2				Why? In this space sufficient?	Jay Do you know of any	additions that have been made
3				27) Where do you cook?	to this house since it	
4				Is this space enough?	Yes: W	sat?
5	************			28) Where do you peel the vegerables?	No:	
6				29) Where do you do the laundry?	55) Does your house need	plastering and repair?
Joh	Work Plan			30) Do you do Honing*	res: No	Partially
1	111111111			Il jes, where? No	30) Would you have liked	any changes inside the house?
2				31) Do you do quilling? Il yes, where? No:	Yes: No	
3				32) Do the children have a separate room?	57) If yes, what are they?	•
4				33) Where do they play?	58) Could you afford to p	
5	********			341 Where do they study?	Yes: Ho	w much?
6				35) If there is a baby in the family, where does it sleep in	No:	
Munthly income of head of family				the evening?	59) Do you consider the	old houses in your arighbour-
				Where does it sleep during the day?	haad worth conserving	g?
MOBILITY					Yes, why?	
3) How long have you been living in Istanbu?				NEIGHBOURHOOD RELATIONS	No. why?	
Year: Month: Day:				36) Are there notsy people in your neighbourhood 1	Partially:	
4) How long have you been living in this				Il yes, who are they? No:	60) If you had to move because the house needed repairs	
neighbourho				37) Do you consider your neighbourhood crawded?	would you want to re	turn to the same house when
Year: Month: Day: 3) How long have you been living in this hiruse?				If yes, why? If no, why?	they were completed?	
3) How ting h	ave you been livin	g in this hiruse?		38) Do you consider the buildings in your neighbour-	Yes: No: Undecided:	
Year:	Month	Day: ,		hood heautiful?	6)) What do you think is necessary to improve these old	
	u live before com			Il yrs, why?	houses?	
What was yo	ur reason for mov	ung here?		If nn, why?	62) Would you want to help tepair the house yourself?	
Was your job the same or different before you				Partially, why?	63) If the residents of your neighbourhood founded an	
moved?				No answer:	organization to repair houses, would you join that	
Same job: Different job:				NEIGHBOURLY RELATIONS	organization?	
f) Has there been any change in your monthly income?				NEIGHBOUKLY KELATIONS	64) If the State were to loan money for the repair of	
Yes: No: Did it increase?				39) With how many of your neighbours do you have	your house, how much could you allocate from your	
				elose relations?	budget each month to pay back your debt?	
				(0) Do your orighbours get along well among themselves?	ought can mount to	pay dack your debt?
TATE OF OWNERSHIP						No. 1
') Are you the owner?						
Yes: If you sold your house, how much would				Pattially: No answer:	Observations:	
you ask for it?				(1) How often do you vitit your close neighbours?		
No: How much rent are you paying?				42) Where else do you come together with these neighbours?		
y II you moved to a rental house, what would be the						
maximum rent you could afford to pay?				13) What do you did during your vacations?	Surveyor:	
				(4) Dir you have any relatives living on the same street with you?	Surveyor,	Date:
DEAS ABOUT THE HOUSE				Yes No		
11) Are you sattified with your home?				(5) Do you have any relatives living in the same district		
Yes: Why?				Yes No		
No: Why? Partially: Why?						
Partially; V	vay:	_		(6) Have you at some earlier time had telatives living on		
12) Do you consider moving out?				the same attent in in the same neighbouthood?		
Yes: No:				Yes Where did they mave to?		
13) If not, why don't you move in another place?				Why? No:		
14) If you would ar could move, which district would you like to move into?				URBAN ACTIVITIES		
you like to	move into?			471 Where du you do your daily (hopping?		
Why that district? 15) If you would or could move, what kind of house				(R) How often do you thop at the market place"		
12) II you wou	sa ar could move,	what kind of hor	use			
IA) Do you	like to live in?					
needs of the	nk that your home	e now meets all t	ne			
reeds of yo	No:					
	140					

Building Evaluation.

Source: Historic Preservation Inventory & Planning Guidelines, City of Las Vegas, Charles H. Page & Asso-

ciate, Inc., San Francisco, 1978.

1. Architectural Significance

Exceptional: Buildings of national or preeminent local importance such as meritorious works of noted architects, outstanding examples of an architectural style, unusual structures exhibiting superb design qualities and buildings which illustrate stylistic development of architecture in the United States.

Excellent: Important examples of architectural styles that retain a high degree of design integrity.

Good: Representative examples of architectural styles exhibiting a moderate amount of design integrity.

Fair: Buildings which are not, of themselves, distinguished works of architecture, but those which contribute to the character of a neighborhood or potential preservation area in scale, materials, proportion and other visual ways.

Poor: Buildings with little or no design integrity and those which may even detract from the character of their visual environment.

Environmental Significance

Exceptional: Buildings which give major definition to a neighborhood by virtue of their design or sting, or which retain distinctive landscaping or other features representative of an earlier time. A structure with a carriage house, garden and fenced grounds would be an example.

Major: A structure or place that helps to give definition to an important grouping, or buildings in that grouping if they are important contributors.

Contributing: Structures or places that contribute to the over-all character of an area or form compatible, but not major, components or groupings.

Non-contributing: Land use, style or visual character inappropriate.

3. Desecration of Original Design

None or little: Buildings with no exterior modifications, or such minor ones that the appearance of the building is entirely in its original character.

Moderate: Buildings with bad signs, exterior fire escapes or other superficial modifications that are inappropriate but not irreversible.

Considerable: Extensive or permanent changes to the original design. Inappropriate additions, extensive removal of architectural details and resurfacing of wooden facades in stucco are examples.

Historical/Cultural Significance

Exceptional: The highest evaluation reserved for structures or places of national, pre-eminent local or state importance.

Major: Reported association with persons or events of local and/or statewide significance, and/or with major development patterns of the area.

Moderate: Reported association with minor development patterns, and persons or events of some local importance or influence. A person who is active in the community, such as a high ranking Mason.

Minor: Buildings of no established association with noted persons or events. Also, buildings for which little or no historical information was received in time for the evaluation.

Preservation for Earthquakes.

Source : ICOMOS, Vol II, Sir Bernard Feiden, Washington, D.C., 1987.

BET-REN TWO EARTHQUAKES.
The Nanequement of Culturel Property in Selsmic Zones
Sir Benned Feilden —
Director Emeritue ICCROM.

A brief summary of the administrative actions before, during and after a maintain dissect to be used see check list legions. It should be applied to the local situation work within the administrative methods plenning proceed within the country. Of commerchip and cultural attitudes of sech country.

of ownership and cutters ittitudes of each country.

a hash clil inventories of all tutturel resource

a hash full inventories of all tutturel resource

concepted by photographs and photogramestric

conceptuates and estimate decorate buildings,

culptures and estimate decorate buildings,

culptures and estimate decorate place of

a feature of the concession place of

a feature of the concession place of

and outline decemps of all imper securors of

the instrument of concession of concession of

a feature of the concession of the concession of

the instrument of the concession of the concession of

the instrument of the concession of the concession of the concession of

the concession of the concession of the concession of the concession of

the concession of the concession o

- ing them end placing them in the sefect place evellable, until some formal plans can be implemented. (A desarct teaches ene the importance of sented. (A desarct teaches ene the importance of the sented plans of the sentence of the formal plans of the sentence of the fighting drills et ein monthly finer visit. Earthquakes have a low probability of interpretion of sexthquake preparedness into prepared enter the sentence that they ere not implicated. As formal enter the sentence that they ere not implicated, As made and the sentence that they ere not implicated, as the sentence that they ere not implicated. As made and the sentence that they even to implicate a bid-mail or triangled intervals, which include anabara for helicipetes to bring all.
- Educate the public in the importance of historic buildings, waintenance and seismic upgreding of vermecular buildings and publish guidelines for local builders in the correct techniques.
- d) Rationelize ownership of privers property by appropriate legislation. One person should be nominated set he Trueten of Culture! Property in order to fecilitate any property changes needed, but the onus for nominarian must be needed, but the
- e) Install e national or regional emergency group for protection of cultural pumperty.
- Provide incentives for meintenence and anti-emissac upgreding. Processe exills and materials needed for meintenence and repair of hietoric
- g) Train erchitecte and engineers in selemic resistant design for historic buildings and in making inspections and reports.
- n. manus anspections and reports.

 N. Cegniae requise inspections of important cultural resources ex appropriate intervals by qualified professionals who should classify by qualified professionals who should classify NCCC-SANY, NESSIGNAC, and NCCC UNRIC UNRICHARY COLD paveloge amintenance streamy that includes anti-soliamic resistance upgreding in an acombasical says.
- Propers porteble generators, pumpe, vehicles end motor fuel. Allocate saismic resistent buildings to be used se concervation warchouses in a disaster. Provide s mobile conservation laboratory (useful in any case). Ratablish crearves of connervation materials and emergency boxes.
- insure objecte we far we possible and classify we replaceable (by obtaining duplicates) or irreplaceable. It should be noted that or irreplaceable. It should be not the content of two a purpose it should be in the content of two a purpose it should be in the content of two a purpose it should be in the content of the primarily directed at eliainating or at isset stitigating directed at eliainating or at isset stitigating times of the confidence of the confid
- 2. <u>Sefore a disaster Professional actions.</u>

 *1 <u>decionical studies</u> enowing zones with higher rask due to underlying eite properties and geologic etructure. Microsoning is most important.
 - Seismic Studies including historic record to evaluate return periods of serthquakes with verious intensiries. Predictions of frequency.

- c) <u>Vulnerability Studies</u> for earthquakes of different antimaty. Such studies should relate to the artistic and historial value of the buildings, their (uralenings and contents,
- d) Town and Country Plans releving developments to versous grades of Seamle damage.
- e) Agree jist to infrestructure of roade, drainage, water, gee, electricity, telephonee and other instellations, inattere anti-seismad desum for these life-linee, improve life-lines preceeded by sccheeological investigatione when excevation is needed.
- Precare Seismic Safety Plans for individuel or groups of historic buildings. Strengthen buildings by etages se end when economic.
- 3. Outing a Disaster and Shortly Afterwork
 operations with same given to seven life and recomoperations with same given to seven life and provise
 of sents blesset, clothing, food, doctors
 of sents blesset, clothing, food, doctors
 come outside upplies. These activities however
 come outside upplies. These activities however
 come outside upplies the service of the service of come of the service of the service

 - b) Protect as such cuitural property se possible, Label end take jill soveeble cuiturel property todecionated warnhouse, funique and give first aid. (The best methods of funigation are such under discussion).
 - c) Obtain co-operation of local civil and military authorities as soon as possible.
 - d) Organise a quick inspection of demage and co-ordinate work of conservators, erchitects and angineers Grade damage to buildings.
- 4. After the Disaster Short term.
 e) Protect important building from the weather.
 - b) Set up multi-dieclipinery conservation teams and alloceta meterie's and labour to repeire, giving priority to protection against the
 - c) Seek internstioned eid through the Government dimester redief co-ordinators office end request sny special equipment needed.
- After the Disaster Long term.

 Organise on in depth essessment of demage with estimetee of costs (see Stendard Forms in Appendix 7 of the ICCNA-/GETT booklet).
 - b) Organise priorities for the repeir progremme.
 - Of Secure Structural repair using teams of architecte treined in conservation, engineers instructural repair using teams of architecte treined in conservation, engineers historiams and archievelogiess.

 (i) Set up multi-disclipinsry tame to prepair projects for repair and reconstruction of demaged buildings.
 - (ii) Eveluate elternative echemes baiencing riek and vuinexebility sgainst degres of intervention end loes of culturel valuee.
 - (iii) The engineers work must be integrated into the erchitecture!/histor.coi aethodlogy, in accordence with the resolutions of the Skopje 1985 Sysposium, (Appandix 9.0f the ICLECH/CETTY booklet).
 - (iv) Present schemes for public approval and support.
 - v) Execute etructurs; repaire. Note the exitie needed for this work are different from those meded for recoveraction from those meded for recoveraction 50, Netcorte buildings are not competing for lebour only for metericis. The demonded developed for the competing demonded developed for the competing demonded developed for the competing medd for new houses. A high priority should be given to repair of historic, buildings weed as meltilings.

Preservation of Stone Today.

ICOMOS, Vol I, Richard Pieper, Washington, D.C., 1987.

Pracerying the artifact: The chemistry of consolidation

while there has been little unenimity in which techniques or themicals are most appropriate for the preservation of stone, important properties of an "ideal" chemical consolidant have generally been agreed upon:

- The consolidants must impert good mechanical resistance and should have adequate electicity so as not to separate from the etone due to expension and contraction.
- 2. The consolident must be realetent to atmospheric pollutents and to eging. $\ \ ,$
- The consolidant must render the treated surface water repellent, without hindering the vapor permeability of the material.
- The consolident must penetrate deeply into the atoms and not remain condentrated at surface layers, nor dramatically site? Phe corosity of treated layers.
- Ideally, the consolidant must be reversible, that is, depable of being redissolved and removed with a solvent.

in practice, no one material has proven satisfactory for all stones are related to the stone and consolidates and treatment are the stone are selected or investion, and consolidates and treatment are selected or accelerate or conservator, each method has its own strong edmetones, and the personal bisses which result quite own strong edmetones, and the personal bisses which result quite own strong edmetones, and the personal bisses which result quite own strong edmetones. The personal properties are presented as the personal properties are presented as the personal properties and presented as the personal properties are presented as the personal properties and presented as the personal properties are presented as the personal properties and presented as the personal properties are presented as the personal properties and presented as the personal properties are presented as the personal properties and properties are presented as the personal properties and properties are properties.

conservation chemistry is in order.

Consolidens; in current use may be divided into categories as organic or increment zeretments. Increment consolidents are, in general, more durable than organic resisting, but may lead adequate also till the consolidents are, adequate also till the consolidents are adequate also till the consolident are adequate also till the consolident are also the proper demands and an adequate penetration. Of the two major inorganic systems in unactual consolident are also the consolidation of sandatomes and function by depositing colleged in the consolidation of sandatomes and function by depositing colleged sittle within the porce of the are videly marketed for the consolidation of sandatomes and such as a state of the consolidation of sandatomes and state are videly marketed for the consolidation of sandatomes and state are videly marketed for the consolidation of sandatomes and state. A barrian system of the consolidation of sandatomes and state, and the consolidation of the colidation at the consolidation of the colidation of the

The <u>Oranic</u> consolidents currently in use may be very consolident of the consolidents currently in use may be very consolident currently described the consolident of the consolident con

althouse an executive form is a structure of the structur

Combination with ecry; allicuts.

Epoxy reals are not openitally considered suitable as consolidants because of problems of insequence presentation and example think to photodegradulen and changes in color. They seem to be a suitable to the construction of the color of the colo

Thus it becomes apparent that the selection of a consolident may be highly subjective. And to this an extraordinery variability in methods and conditions of application and we see the difficulty of samuling that a creatment will be successful or property of a survey of the second of the second second property of the second property of the second property apparamentally appeared to the second property appeared to the second property

The rush to consolidate: the problem of commercialization

The tush to commendate; the problem of commencialization

If stome preserved in resimful to the laboratory or in the
hands of e few treated specialize, one might be satured that
decisions to consolidate would be based upon careful study,
welghing the dangers of creatment equinate the threat of continued
the dangers of creatment equinate the threat of continued
the dangers of creatment equinate the threat of continued
the commencial success of the product of the technical
expectace of e commercial supplier, who is at least se concentration
that the commencial success of his product as with its long term
with the commercial success of his product as with its long term
waterproofing or masonry restoration fire them by a trained
restorer; title differentiation may be made between development
about a major of the continued to the continued of the continued to the continued
as a principle of the continued of the nonument, who say think
views are innertect.

Oliven that these materials are being appreciately marketed
spileation is epparent.

Toward a philosophy for the preservation of stone

As with the selection of the consmillent trait, the difficult decisions of when and was to consocilate will necessarily be made on a case by case bails. It will never be Possible to eliminate the subjective element from this decision of the construction of the const

- 1. Establish the value of the deterlorated stone as a 1 Exception the value of the detectorated stone as an "atilater," As with most variants on fifth neture, judgments may be criticised as uniyective. Still some captel any be considered ance appropriate candidate for consolidation than an uncoled block of salar.

 Onsolidation than an uncoled block of salar.

 Detection, on a case by case basis, where "attiact" or "craft" approaches are warranted. In a country where craft traditionally accepted this may mean adoption of a hybrid solution where some corved organner is compolidated and other sleemest are replicted.
- Employ consolidation treetments only when the atone is in such an advanced state of deterioration that destruction is threatened or replacement otherwise necessary.
- Perform no treatment without analysis and thorough documentation of existing cooditions. Select a treatment based upon its suitability for a perticular application, not just commercial availability.
- Record conditions, methods and materials used in treatment, Both conditions documentation and treatment records must be assembled for archival storage.
- Assure <u>before treatment</u> that the custodian of the monument eccepts responsibility for pariodic inspection and maintenance of the treated stone.
- Lastly, and most importantly, monitor and publicite the performance of the materials in use. By those reports advances in chemistry and application will be schieved, and decisions for retreatment will be made.

Standard Definitions.

Reading in Historic Preservation. Why? What? Source : How?, Norman Williams and friends, The State

University of New Jersey, 1983.

Section 68.2 Definitions

The standards for historic preservation projects will be used by the National Park Service and State historic preservation officers and their staff members in planning, undertaking, and supe assisted projects for acquisition, protection, stabilization, preservation, rehabilitation, restoration,

assisted projects for acquisition, projection, statemation, preservation, renabilitation, restoration, and econstruction. For the purposes of this part:

(b) Preservation, Meens the act or process of applying measures to sustain the existing form, integrity, and metartal of a building or structure, and the existing form and vegetative cover of site. It may include initial stabilization work where necessary, as well as angoing maintanance of the historic building majerials.

building malertais. (c) Protection, Mans the act or process of applying mastures designed to affact the physical con-dition of a property by defanding or quantiting it from deterioration, loss, or attack, or to cover or shalled the property by defanding or guarding it from deterioration, loss, or attack, or to cover or shalled the property from danger or player, in the case of buildings and structures, such to attend to generally of a temporary nature and enticipates future historic preservation between, in the case of

génaring of a temporary nature and amouphers nature nations preservation measurems, in the case or archaeological sites, the protective measure may be ferraporary or permanent.

(d) Reconstruction, Means the act or process of reproducing by naw constituction the axact form and datas of a vanished building, structure, or object, or a part tharaof, as if appeared at a spacific

eride or ome. (e) Rehabilitation, Means the act or process of returning a property to a state of utility through repair or alleration that makes possible an afficient conference or property to a sine or unity unou repair or alleration that makes possible an afficient conference are while preserving those point or features of the property that are significant to its historical, architectural, and cultural values.

(I) Restoration, Manne the act or process of accurately recovering the form and details of a proparty and its setting as it appeared at a particular period of time by means of the removal of later work or by the replacement of missing earlier work.

or by the representation running source work.

(3) Stabilization, Means the act or prorass of applying measures designed to rearrables a wealther-resistant enclosure and the structural stability of an unesso or deteriorated properly while maintaining the essential form as it exists at present.

Section 68.4 Specific standards for acquisition, protection, stabilization, preservotion, rehabilitation, restoration, and reconstruction projects.

in addition to the general standards set forth in section 68.3 the following specific standards shall be applied as appro

(b) Protection, (1) Before epplying protective measures, which are generally of a tempor 10) Properties. (a) General appropriate processes an analysis of the actual or anticipated threats to neiture and imply future historic preservation work, an analysis of the actual or anticipated threats to

shall safeguard the physical condition or environment of a property or ter Provident acress services the physical contents of the providence acressed by wasther or other natural, entmal

(3) If any historic material or architectural features are removed, they shall be properly recorded

(3) if any historic material or architectural features are ramoved, thay shall be properly recorded and, if possible, stored for fulture useful and in the property for the control of the into property's appearance, when removement is required to learned an according stoccure statemy, such work shall be concelled wherever possible so as not to introde upon or datact from the estibatic and historical quality of the property, except where concealment would result in the alteration or destruc-

National quality of the property, steeps what conceaming would retain it to enteration or teactor.

And the property of the pr

(2) Preservetion shall include techniques of arresting or retarding the detartoration of a property

LLF Preserveion mais mobile standards or artisting for instituting the destination on a property through a program of ongoing maniferance.

[3] Rabbilistion. [1] Contemposary daugh or electations and additions to assisting properties about the property of the property o

accusacement, or comural merema, and such dissipt is companied with the state, scient, Coor, final rise, and chreater of the property, neighborhood, or antivontrant.

(2) Wherever, possible, new additions or alterations to structures shall be done to such a manner that if such additions or alterations were to be ramoved in the future, the essential form and integrity

that is such additions or alterations were to be ramoved in the sulure, the essential form and integrals of the attribute would be underplaced.

(I) Restoration, [1] Every reasonable affort shall be made to use a property for its originally fine landed purpose or to provide a compatible use that will require minimum alteration to the property.

(2) Reinforcement required for structural stability or fire installation of protective or code-required mechanical systems shalf be concaaled whanaver possible so as not to intruda on or detract from the property's esthetic and historic qualifies, except where concealment would result in the alteration or ion of historically significant materials or spaces.

destruction of historically agrillment materials or spaces.

(3) When excheeological resources must be disturbed by institution work, racovery of archaeological material shall be undertaken in conformance with currant profusitional practices.

(a) Reconstruction. (1) Reconstruction of a part or all of a property shall be understaken only

when such work is assential to reproduce a significant missing leature in a bistoric district or scene, and when a contemporary design solution is not acceptable.

[2] Reconstruction of all or a part of a historic property shall be appropriate when the reconstruc-

(IZ) Reconstruction of all or a part of a historic property shall be appropriate when the reconstruc-in a seashful for understanding and interprating the value of a historic district, or when no other illding, structure, object, or landscape feature with the same associative value has severed and suf-ternt historical documentation exists to insure an accurate reproduction of the original.

(3) The reproduction of missing elements accomplished w (3) The reproduction of missing aternants accomplished with new materies shall duplicate the composition, design, color, leature, and other visual qualities of the missing almanst. Reconstruction of missing architectural features shall be based upon accurate duplication of original features, substantitated by historical, physical, or pictorial avidence rather than upon conjectural designs or the

substantiated by misoricus, projects, or precess experience the buildings.

(4) Reconstruction of a building or structure on an original sits shall be preceded by a thorough archaeological investigation to for ata and identify all subsurface features and artifacis.

(5) Reconstruction shall include measures to preserve any remaining original fabric, including foundations, subsurface, and ancillary elamants. The reconstruction of missing alements and features shall be done in such a manner that the assential form and integrily of the original surviving features are unimpaired.

Personal Communication.

Mohammad Ata Yousof 1429 Laramie St. #3 Manhattan, KS, 66502 U.S.A.

October 31, 1988

Mr. Eliezer Frenkel Hasadna Leitzur Pnim Ve'adrichalut P.O.Box 21192 Tel Aviv 61211 Israel

Dear Mr. Frenkel,

I am a graduate student in the Department of Architecture Kansas State University. I am working on my thesis -General Guidelines for Developing and Conserving the Old City of Nablus, West Bank, under the direction of professor Bernd Foerster. Unfortunately, the material that is available to me is inadequate.

Recently, I learned that you are one of the architects who did a good job in developing and preserving the historic quarters of Jaffa. I would appreciate it if you could mail me a copy of the guidelines that you used in Jaffa, or any other material that would be useful to me.

I would prefer to have materials written in English sent, if possible.

please feel free to send me the cost of any materials you send and I will reimburse you.

Thank you

Mohammad Ata Yousof (913) 776-8695.

SADNA · ARCHITECTURE & INTERIOR DESIGN WORKSHOP

P.O.B 21192 TEL AVIV 61211 ISRAEL TEL: 03 255185

Tel-Aviv. 7. 12.1988

Mr. Mohammad Ata Yousof, 1429 Laramie St. Apt. 3 Mannattan, KS 66502, U. S. A.

Dear Mr. Mohammad Ata Yousof.

My appologies for the in delay answering your letter.but regretfully I recieved it at a very hectic period and couldn't get to it as quickly as would have wished.

I am enclosing a copy of a brochure of the Jaffa project which was prepared in the late 60'- as is evidenced from the "before and after" photos. I hope this brochure will be of some help, even if it doesn't seem to convey the "reality" of the old city of Jaffa nor the reason for its popularity. But after all, we are looking back some 28 years after work begun and over 20 years since it's "offical" completion (minor work on the site continued till about 10 years ago and in some cases is still in progress).

Then as now, our tendency, as architects, is to over emphsise the esthetic aspect. Yet, the main questions and problems in urban renovation are of social, economic and administrative nature.

Therefore I suggest you should consider the following questions:

1. In What way will the present population - which is usually poor - participate in the project? - keeping in mind that the cost of renovation is as high as that of new construction.

2. Since existing population and building density are usually very high and hardly suitable for modern living - how should one define criteria to clear at least some of its present population and building and at what cost? - assuming one overcomes such problems as "private wakff", which prevents present owners from selling their property and many others with which you should be as familiar as I am.

To overcome such obstacles requires large sums of money, the good will of the whole propulation and above all clear goals of benefits, far beyond sentiments of nostaligia, cultural heritage, history, etc.

In short, one should try and be as realistic as possible, even if it sounds somewhat materialistic. It is, by the way, precisely this attitude which made Jaffa a living reality.

SADNA-ARCHITECTURE & INTERIOR DESIGN WORKSHOP

POS 21192 TEL AVIV 61211 ISRAEL TEL: 03 255185

The very decision to create an "Artist quarter" in Jaffa was based on the assumption - which proved to be true - that artist will be willing to live in a romantic and historic area - although living conditions are more difficult - if they can benfit economically: In this case, own a studio-gallery at a realativly reasonable price compared to any other place in town. The same, by the way, is true of artists quarters everywhere. An alternative to artists can be any other group of people whom I would call "Bohemians" for lack of any other name. It could be religious groups or students or historically minded people etc. - but always remember the economic social and othe aspects, just as in any other urban and architectural project.

As for design criteria I am afraid that these can not be transmitted in writting.

I wish you a successful project and hope to hear from you.

Eliezer Frenkel - Architect Head of Sadna

Mohammad Ata Yousof 1429, Laramie St. #3 Manhattan, KS 66502

September 23, 1988

US-ICOMOS Decatut House 1600 H Street, N W Washington D C 20006

Dear Mr. Keune:

I am a graduate student in the Department of Architecture at Kansas State University.

I am working on my thesis - General Guidelines for Developing and Conserving the Old City of Nablus, West Bank - under the direction of Professor Bernd Foerster.

Unfortunately, the material that is available to me is inadequate. I would appreciate it if you could mail me any information related to my topic, or anything that would be useful to me. It would be helpful if you have material dealing with the preservation of Islamic heritage.

Sincerely

Machammad Ata Yousof

U.S.COMMITTEE INTERNATIONAL COUNCIL ON MONUMENTS AND SITES US/ICOMOS

Mr. Maohammad Ata Yousof 1429 Laramie Street, #3 Manhattan, Kansas 66502

October 13, 1988

Dear Mr. Yousof:

In response to your September 23 inquiry, I am sending printed material which describes ICOMOS and US/ICOMOS. Our office does not have available for distribution the type of specific information you are seeking with respect to Islamic planning and architecture.

- I have two suggestions: '
- 1. The Aga Khan Program for Islamic Architecture operated by Harvard University and the Massachusetts Institute of Technology in Cambridge, Massachusetts has the best collection of published materials on Islamic planning and architecture in the United States. I would suggest your writing to Mr. Omar Khalidi, Aga Kahn Program Collection/Reference Librarian, Department of Architecture, Room 10-390, MT., Cambridge, Massachusetts 02139. Their annual reports list all of the publications they have added to their collections for that year. Have you checked your university library's potential computer access to the library holdings of other university collections i.e. MT?
- 2. The ICOMOS Documentation Centre in Paris may be able to provide you with a listing of their published holdings on the preservation of Islamic architecture. The address for the Documentation Centre is noted in the blue US/ICOMOS brochure.
- I trust that these two information sources may be of some assistance to you as you work on your thesis project.

Sincerely yours,

Russell V. Keune, AIA

Vice President for Programs

Yanel J. Leune

Enclosures

I600 H Street, N.W. Washington, D.C. 20006 (202) 673-4093, 673-4211

GENERAL GUIDELINES FOR DEVELOPING AND PRESERVING THE HISTORIC OLD CITY OF NABLUS - WEST BANK

by

MOHAMMAD ATA YOUSOF

B. Arch., An-Najah National University
Nablus, West Bank, 1986

AN ABSTRACT OF A THESIS

submitted in partial filfilment of the requirements for the degree

MASTER OF ARCHITECTURE

College of Architecture and Design

Kansas State University

Manhattan, Kansas

ABSTRACT

The old city of Nablus is one of the best preserved traditional cities on the West Bank of the Jordan river. It contains one of the greatest collections of national monuments in all the West Bank, and is considered by many to be the most attractive city in that area after Jerusalem.

Nablus is seriously threatened with the disfigurement and destruction which may cause the eradication of whole chapters of its history. The question then, is how can future architectural development in the old city of Nablus be prevented from accelerating the loss of its cultural identity.

A systematic program of preservation is recommended. This program can offer present and future generations of Nablus the opportunity to create a better community while maintaining and enhancing the best from the past.

Preservation must be integrated into the regular planning process. It must mean something to the man in the street and involve the community. Above all it must be compatible with contemporary ways of living, and with changes that are taking place. Preservation must be part of an organic process in order to assure the continued enjoyment of Nablus' special attributes embodied in its heritage. Such an approach will help to make Nablus dynamic and fascinating, as a place in which to live or to visit.

Efforts shall be made to identify the personality that the historic quarters convey, to revive past values, to regain

the architectural integrity of the historic quarters and to create a more livable environment. It is essential to maintain the charm and picturesque quality of this historic city about which an anonymous Palestinian poet once wrote "when you say fame, you mean Nablus."